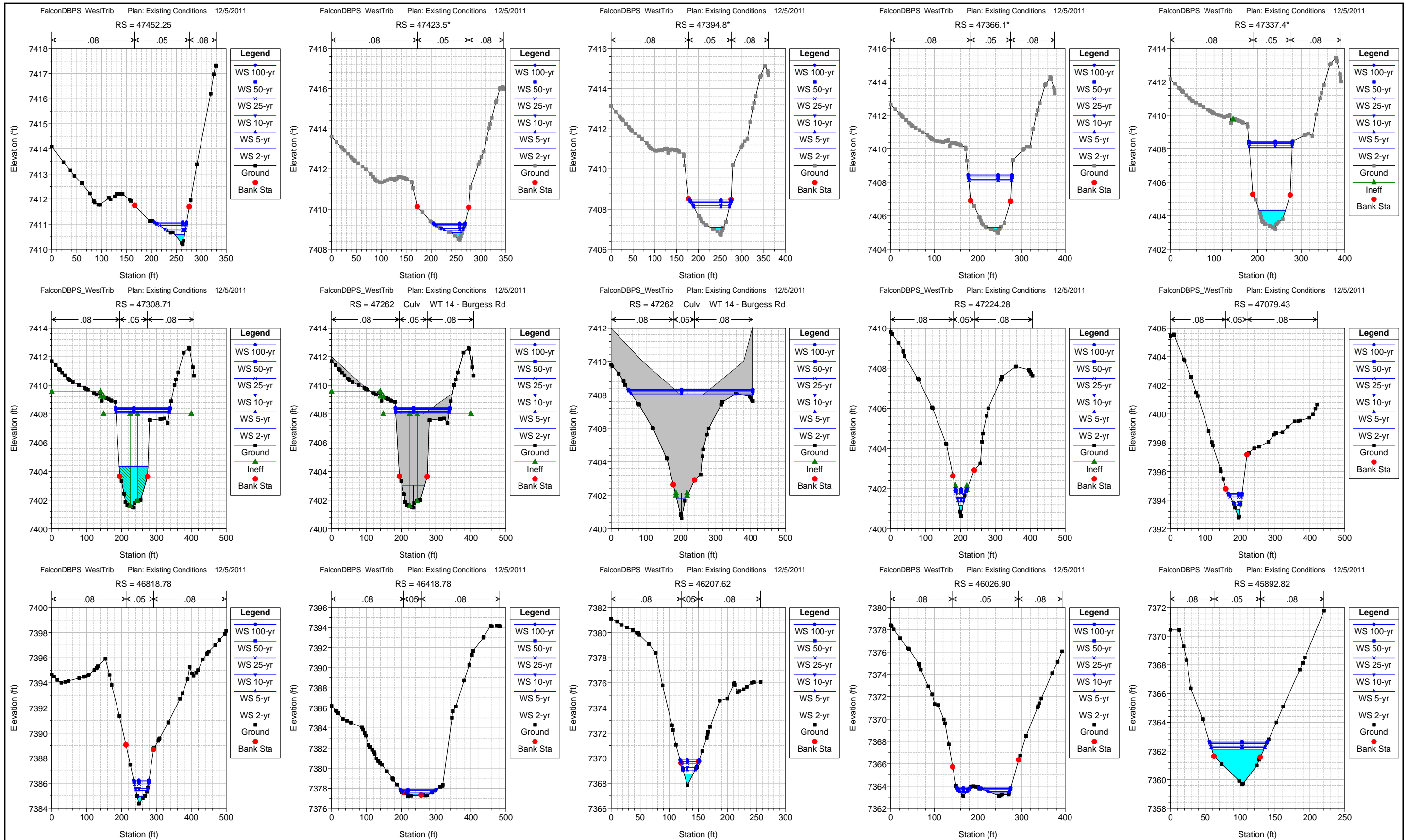


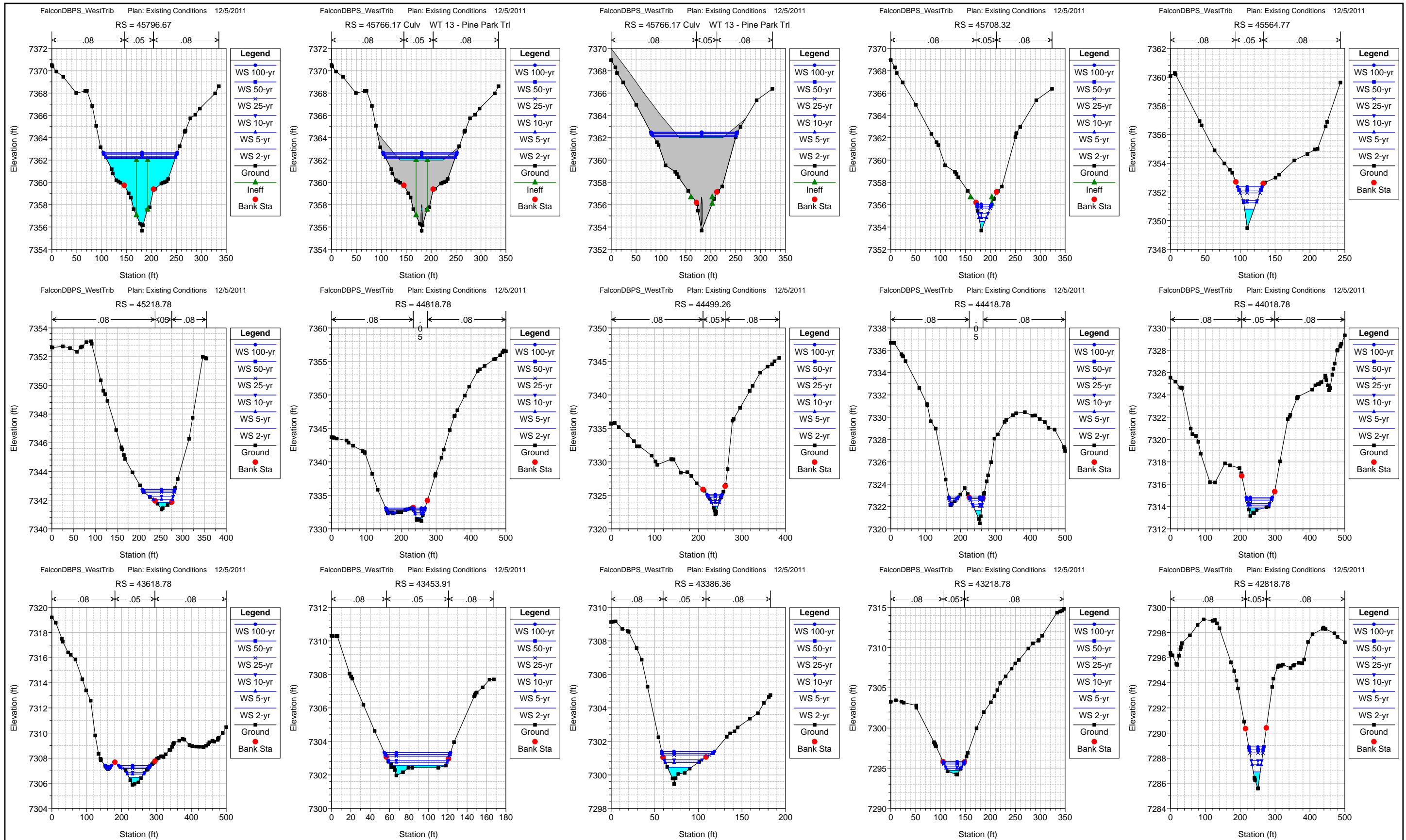
HEC-RAS Profiles & Cross Sections

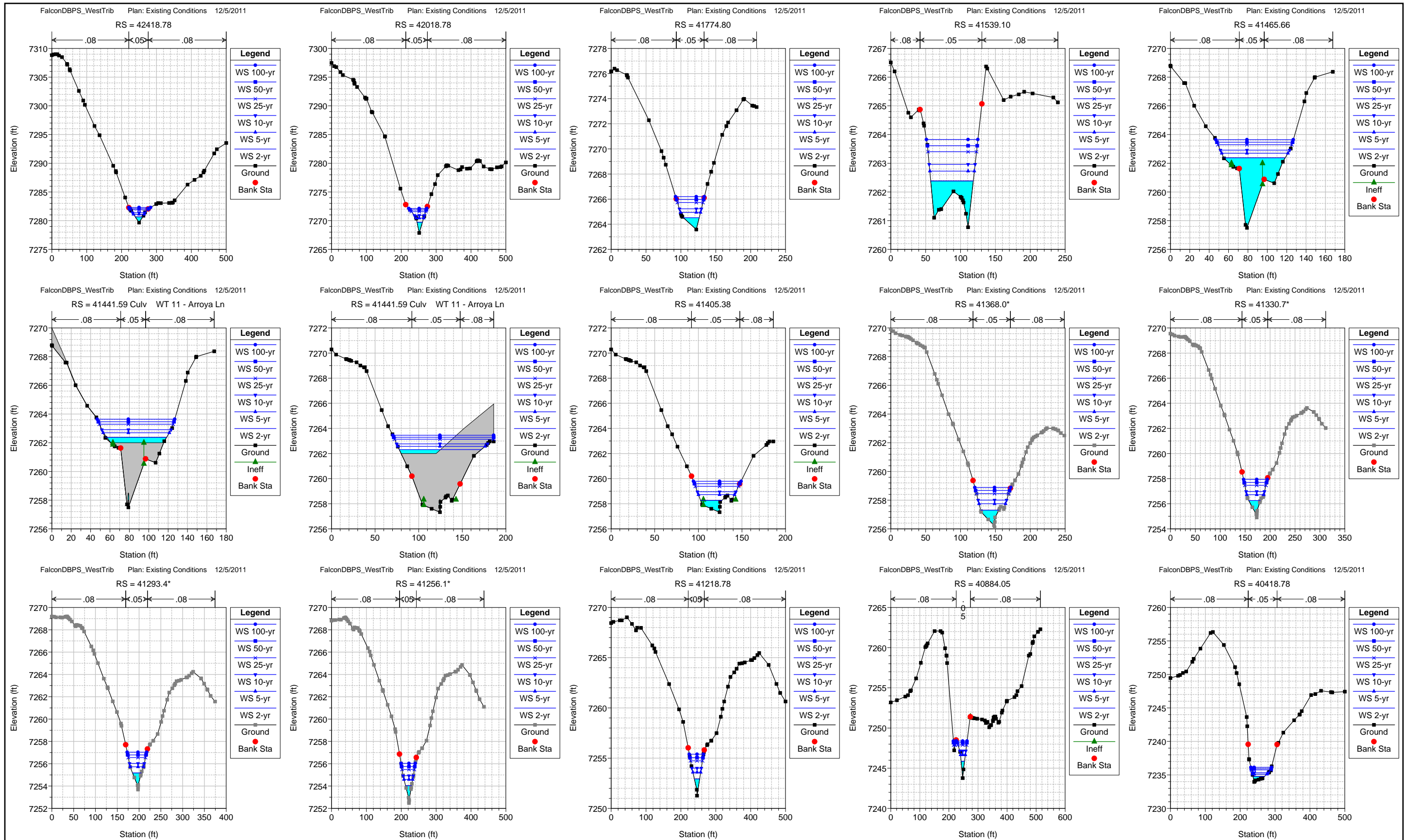
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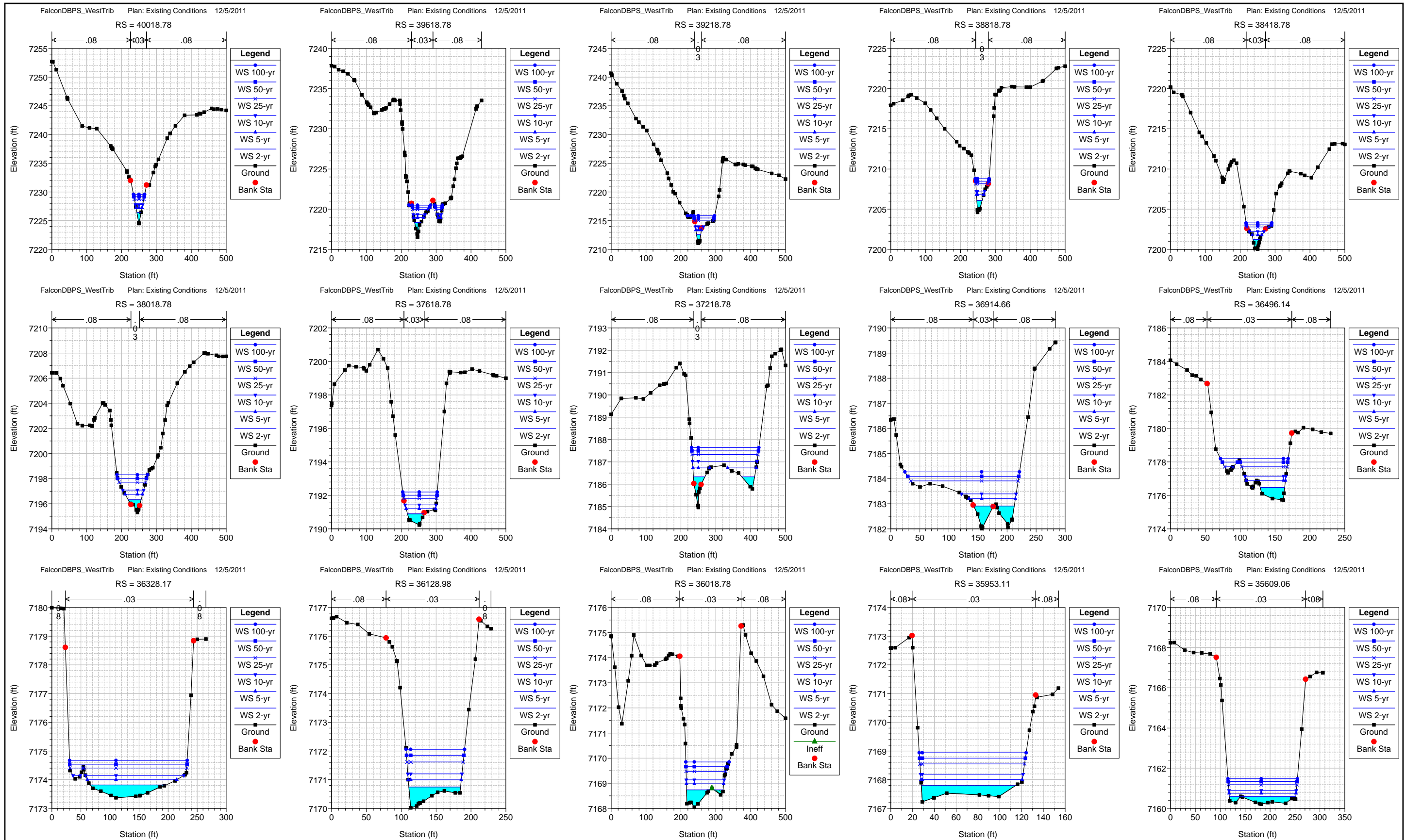
West Tributary – Existing Conditions

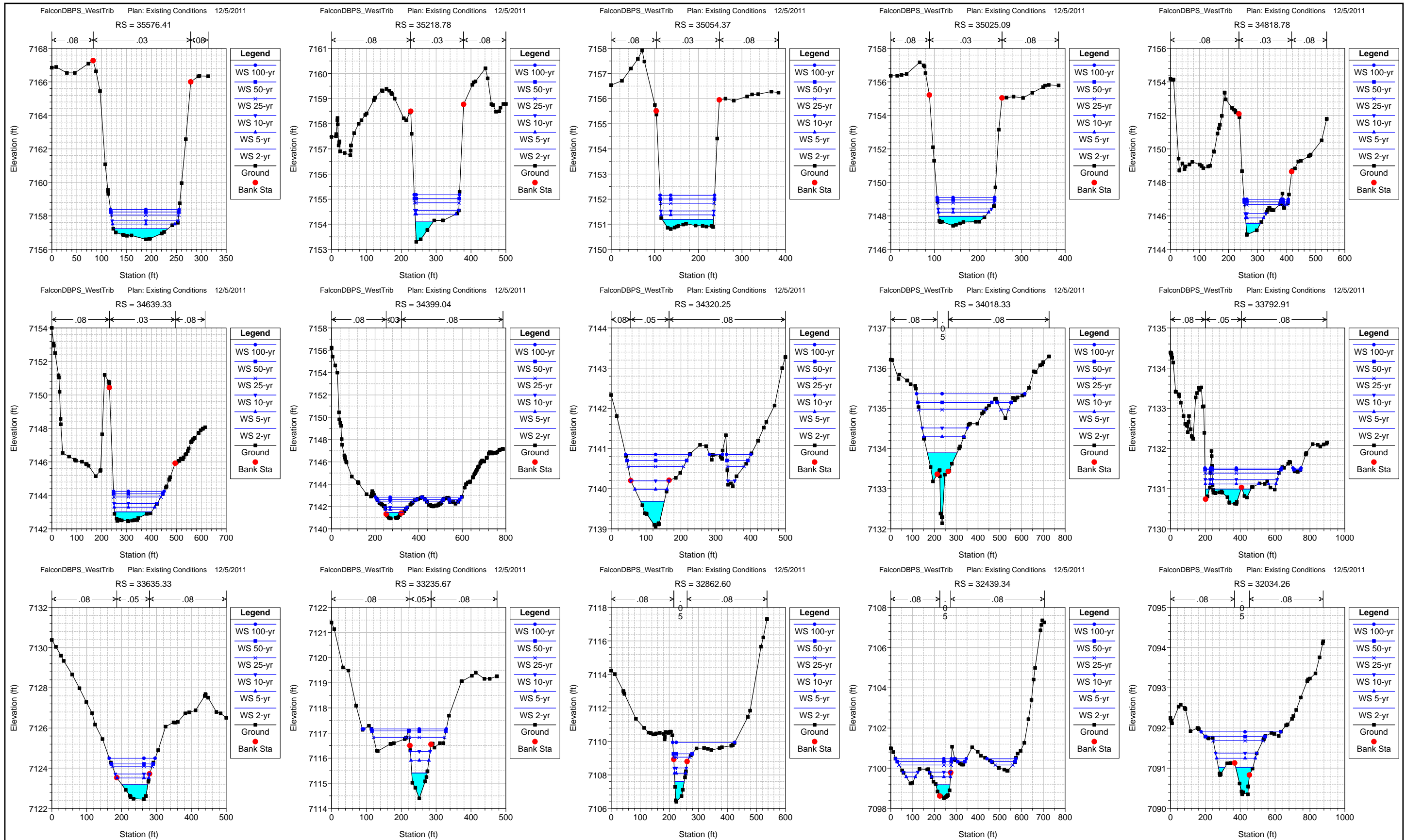
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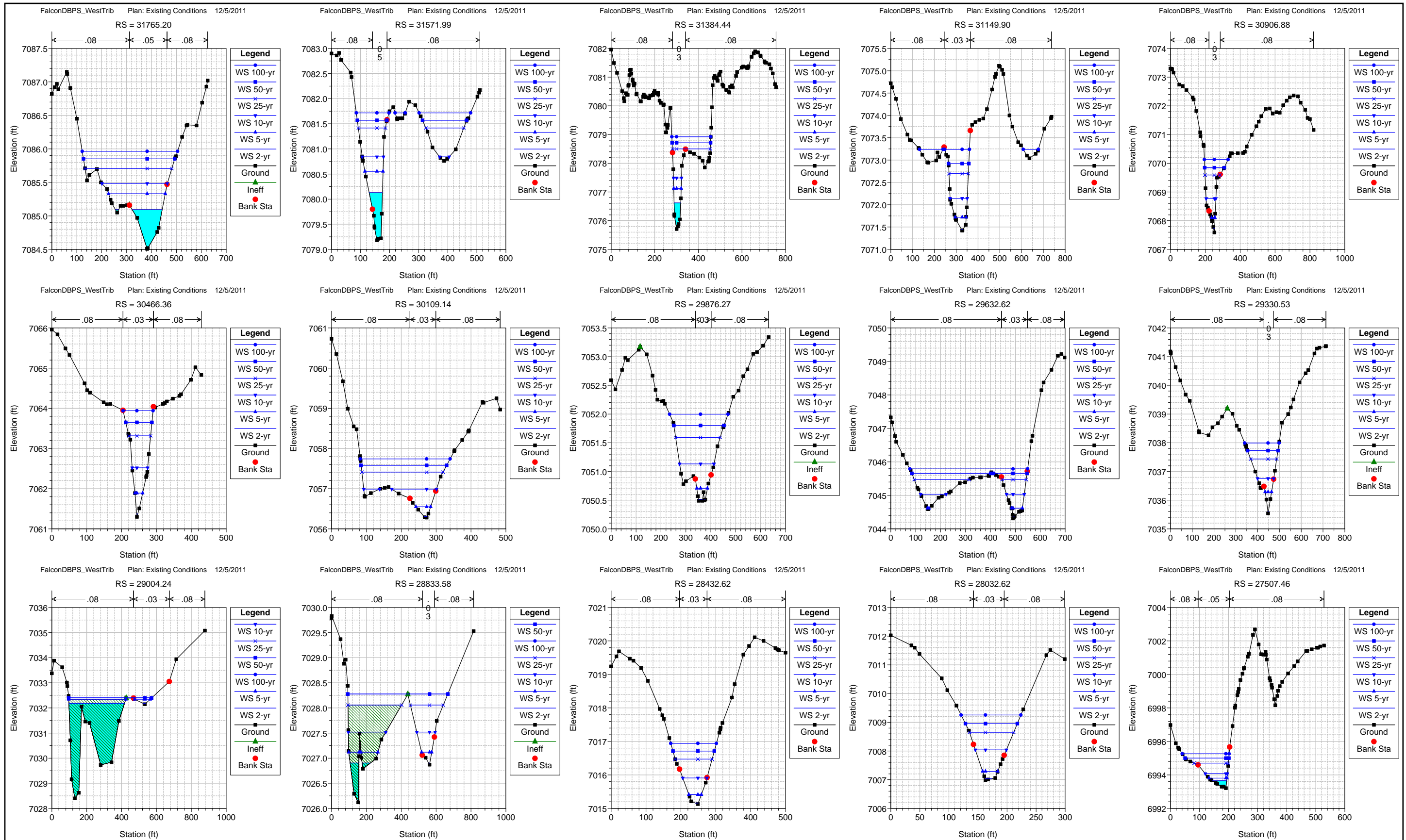


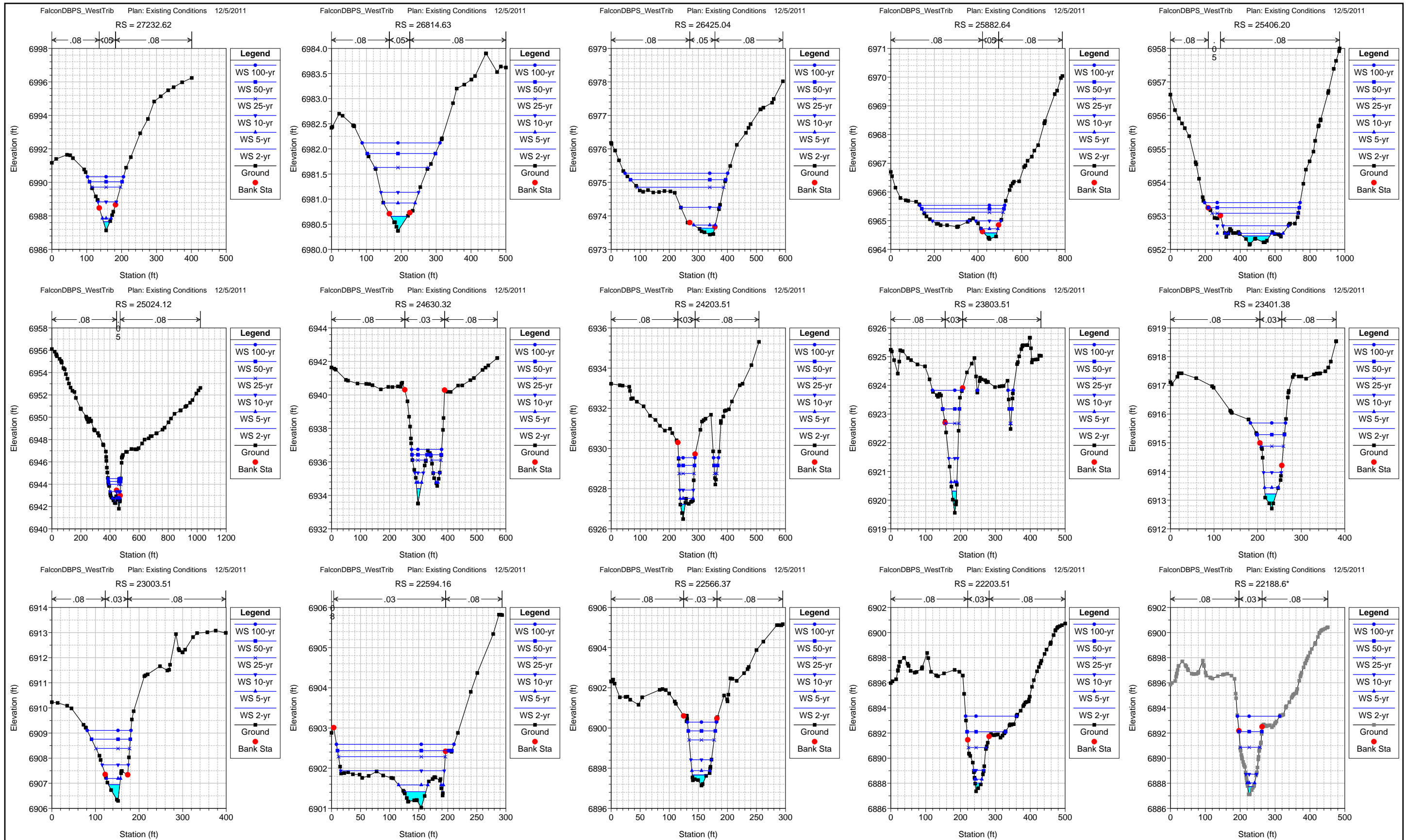


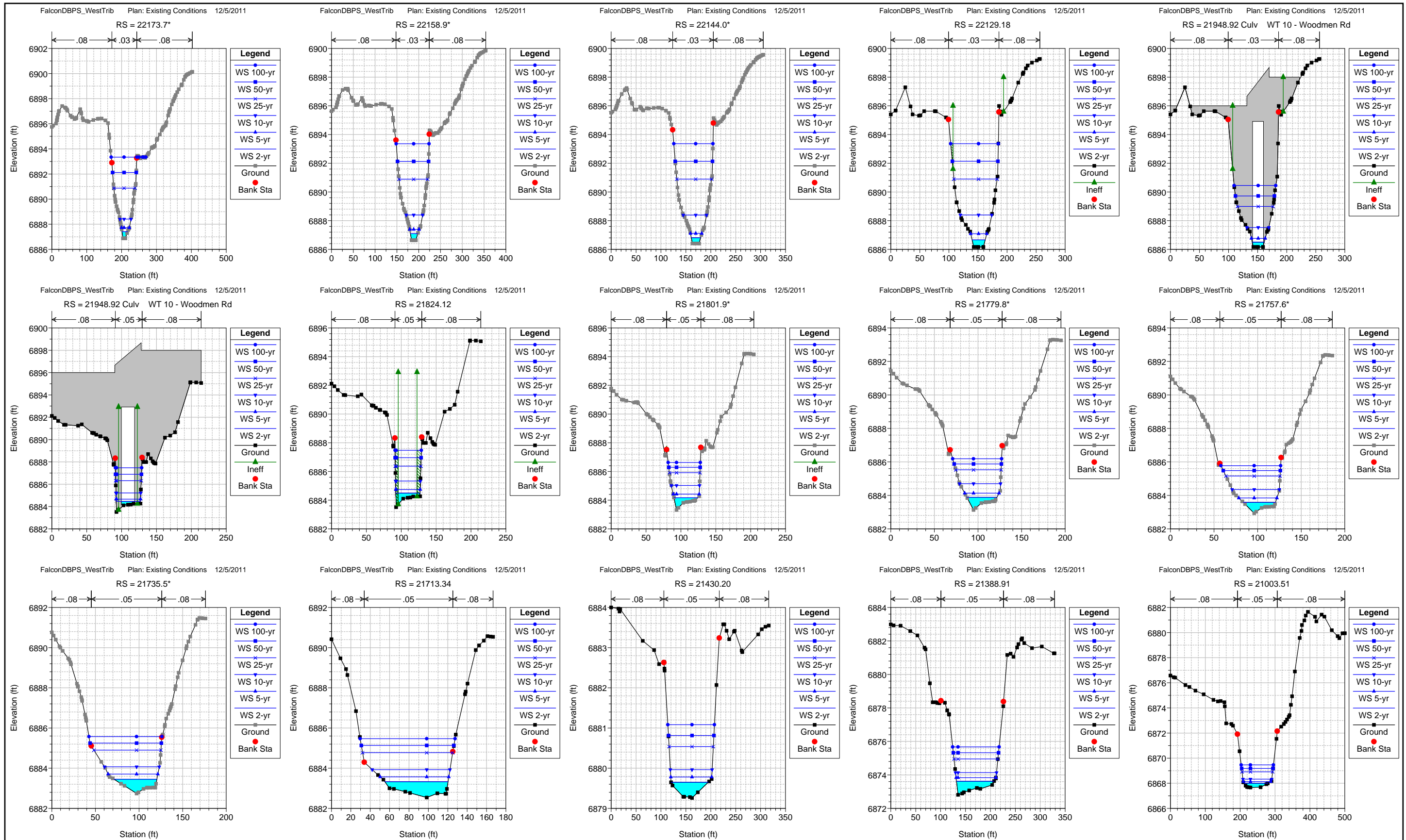


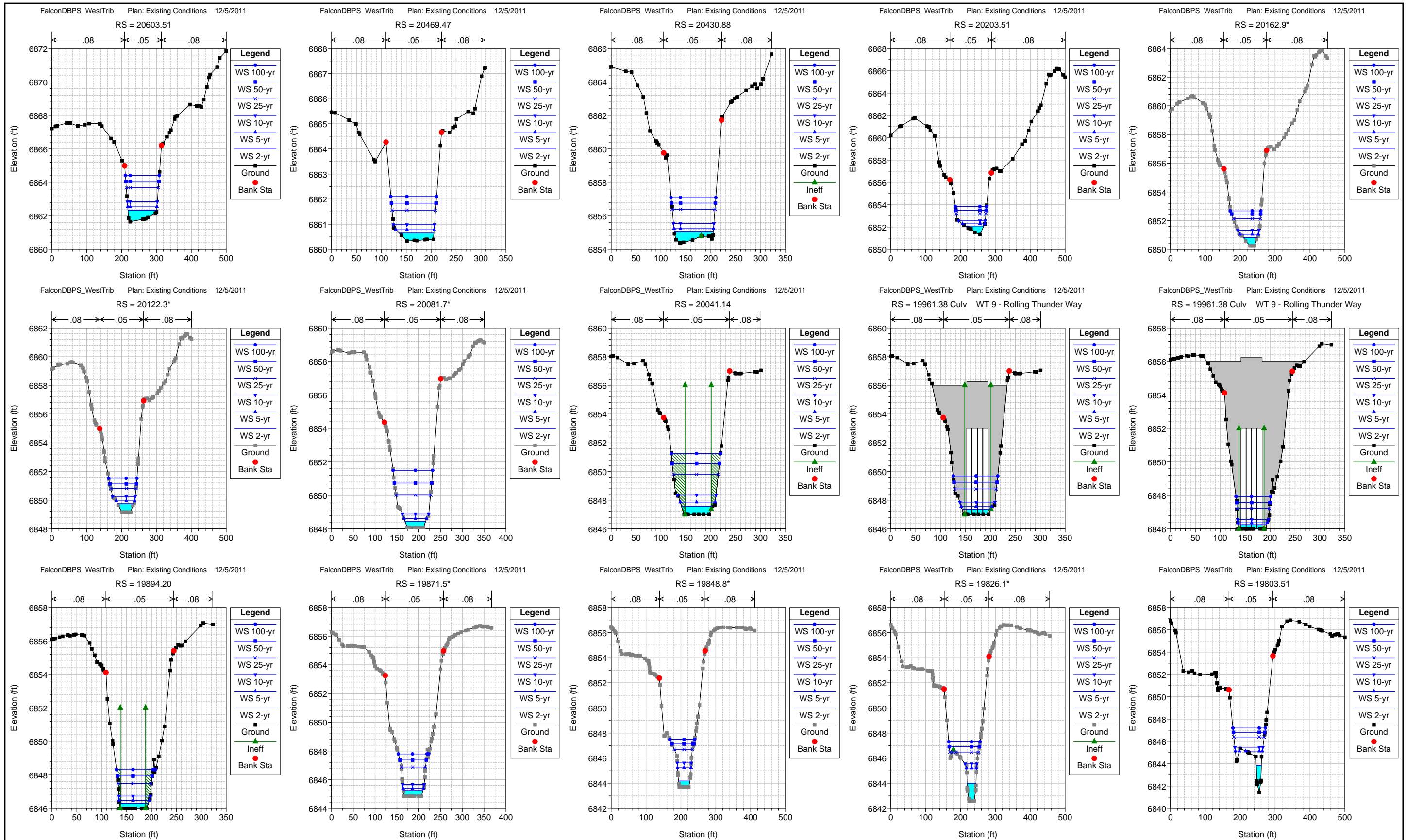


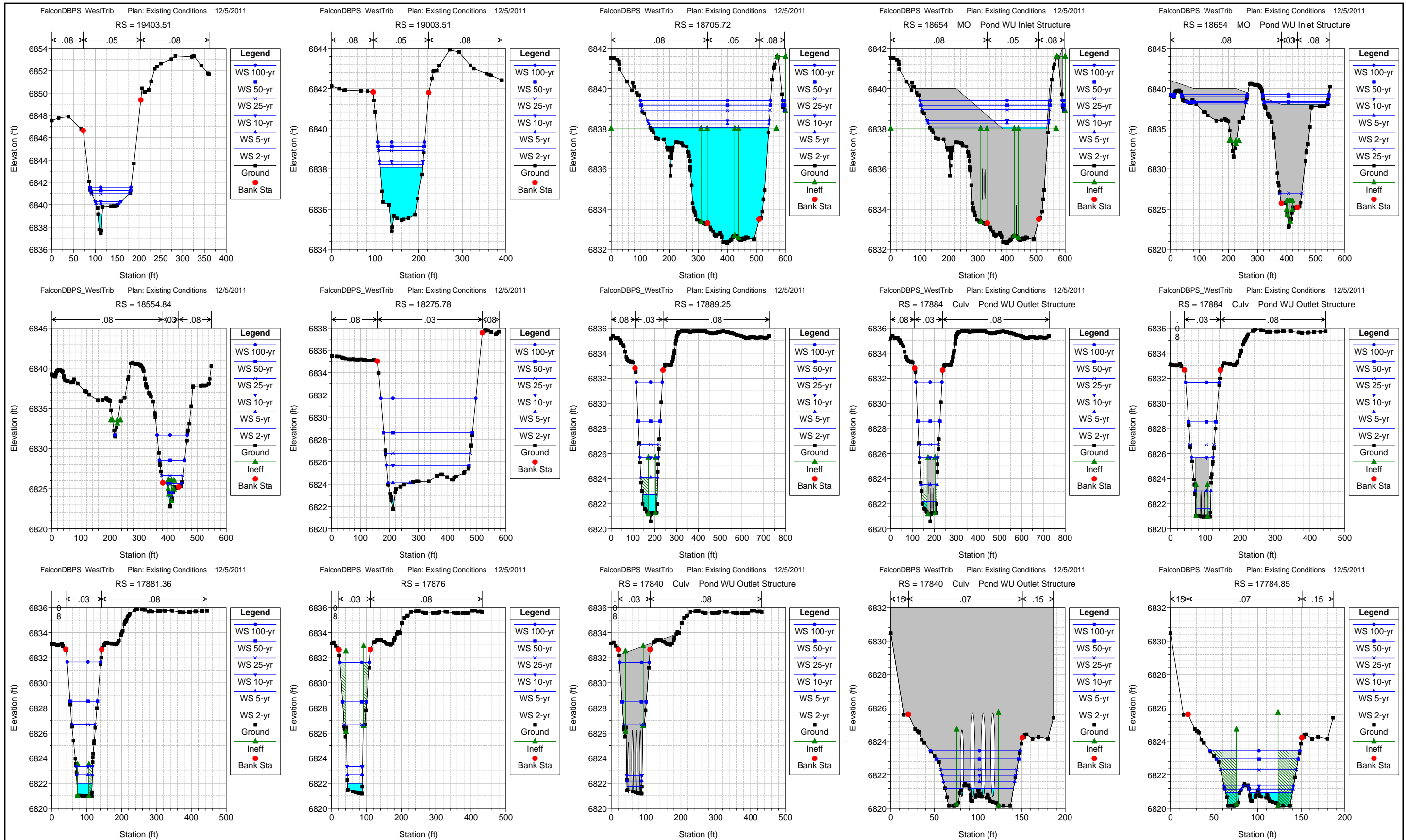


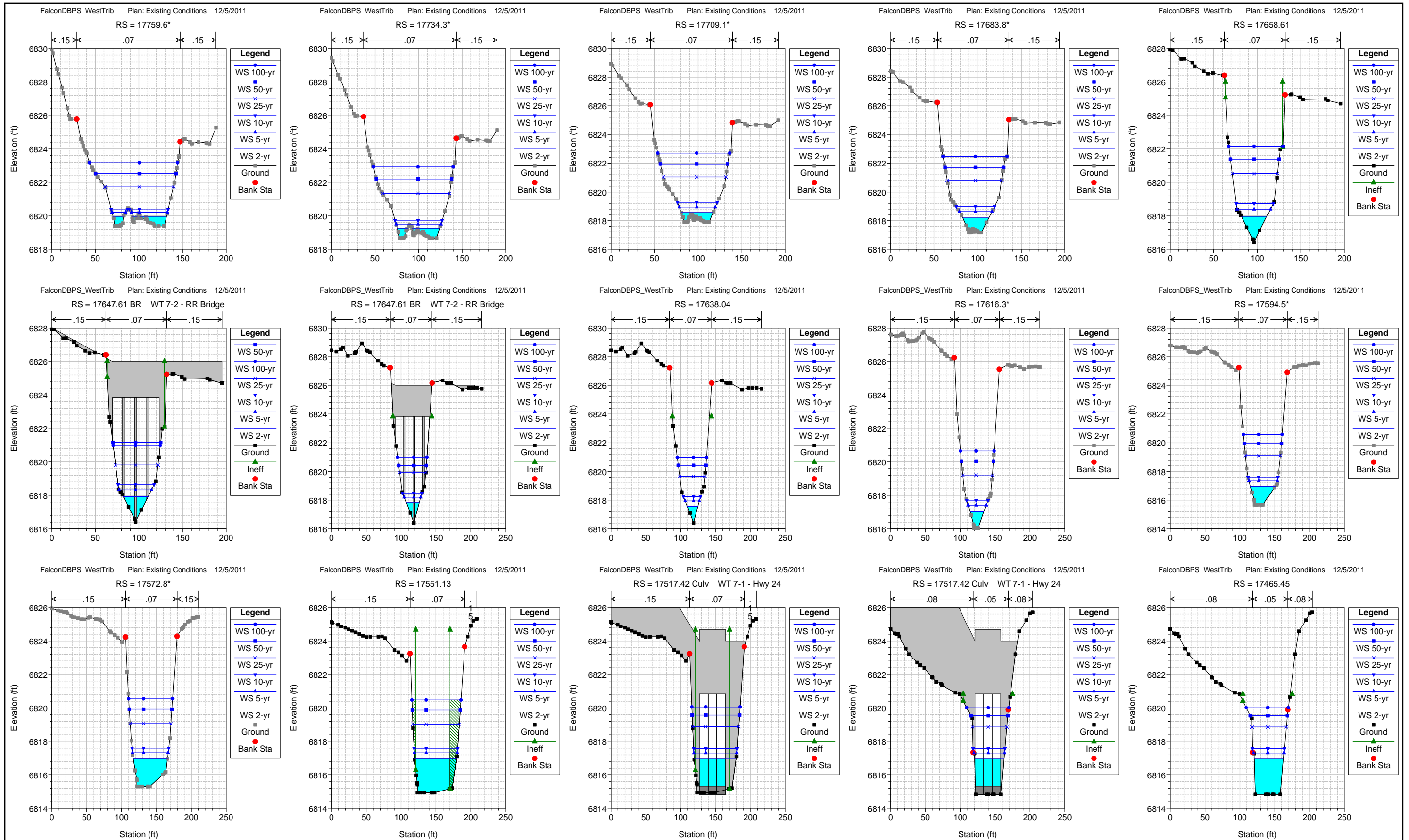


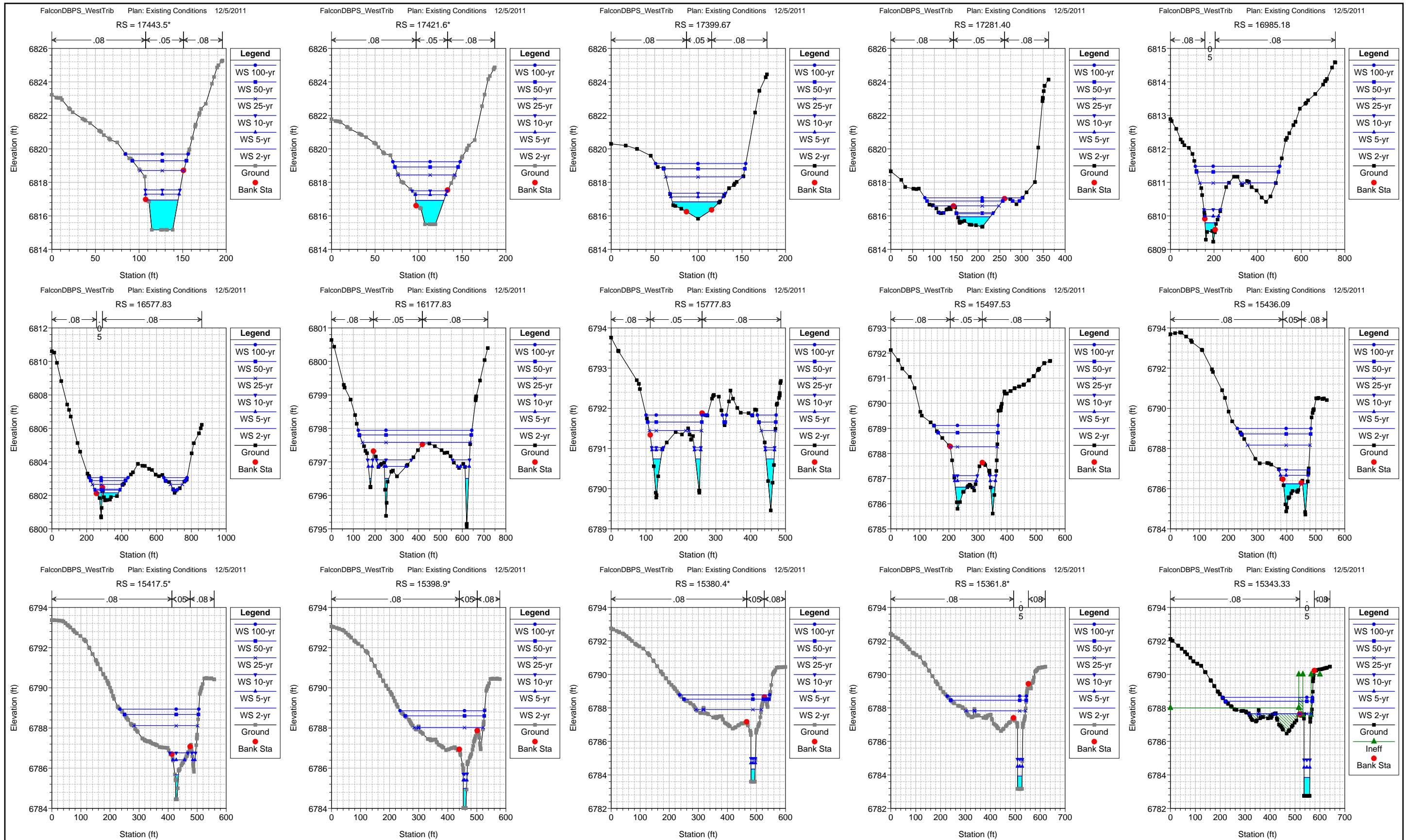


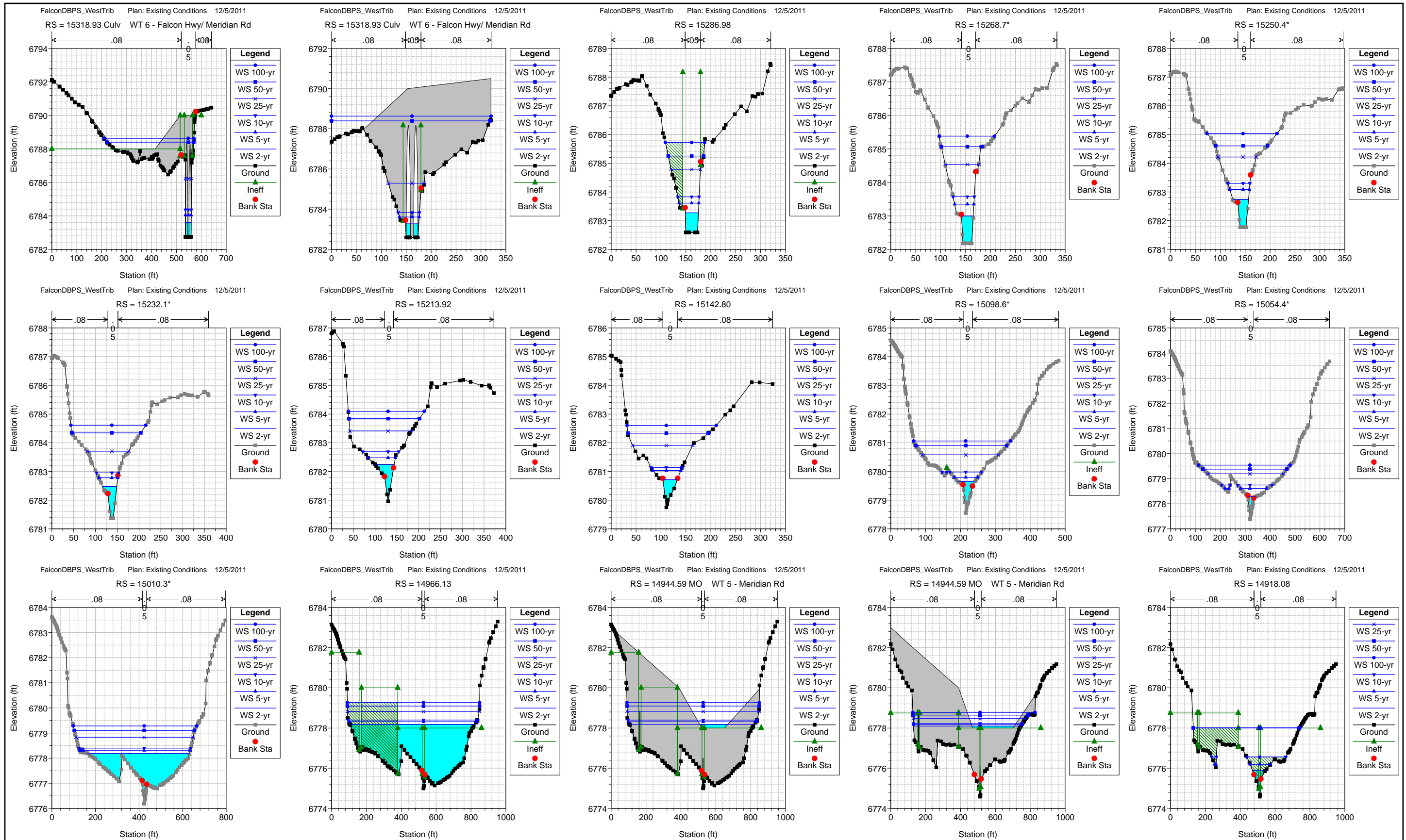


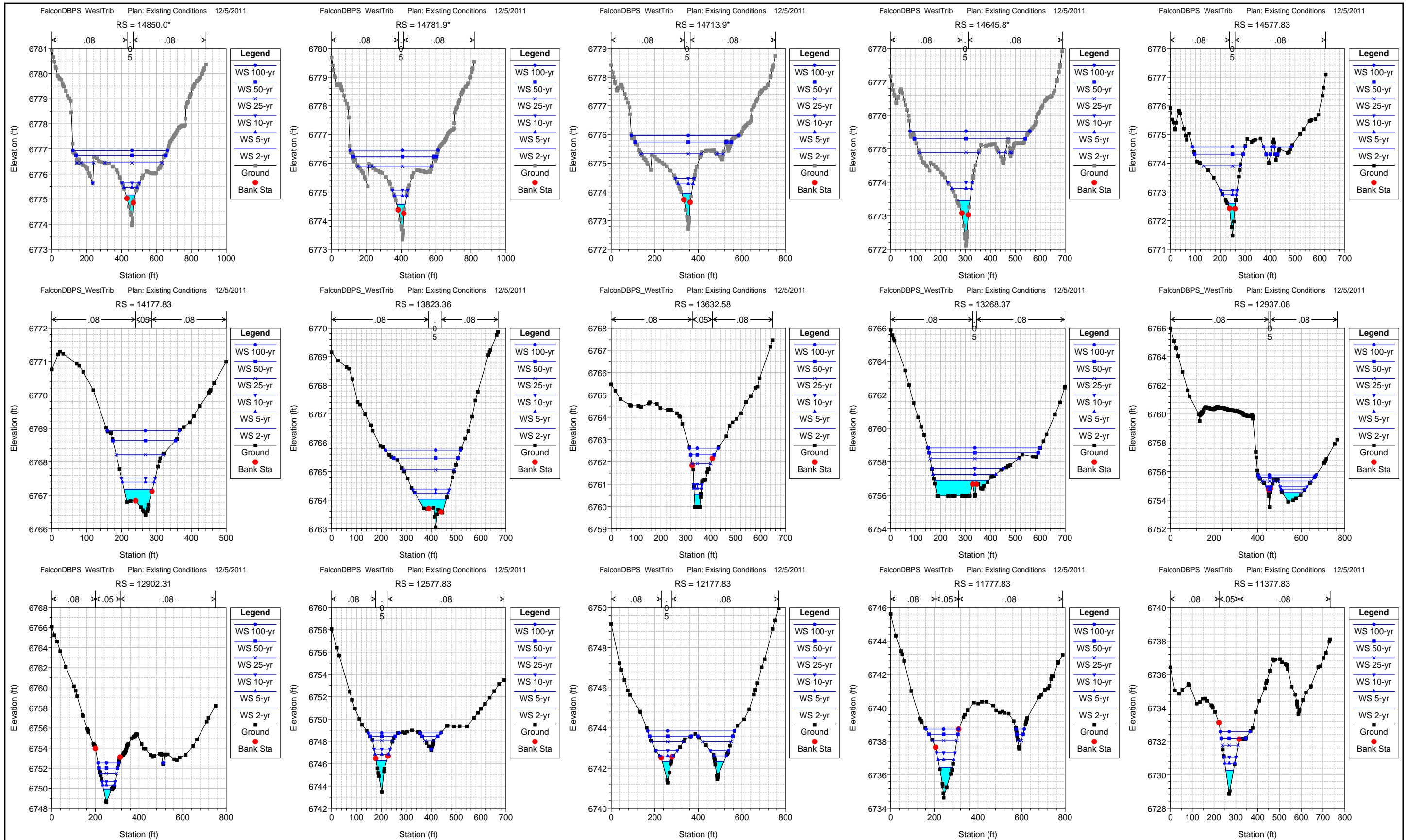


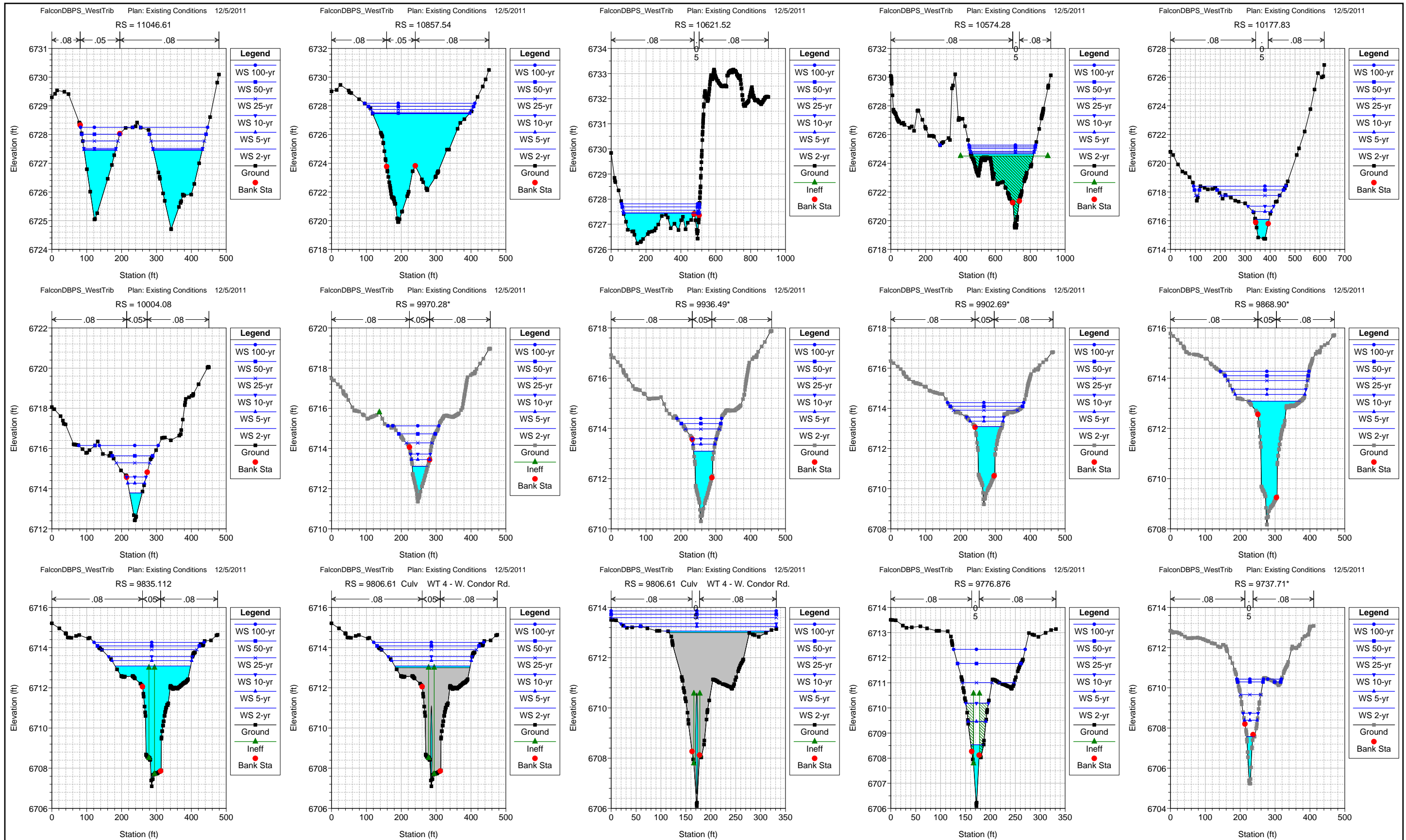


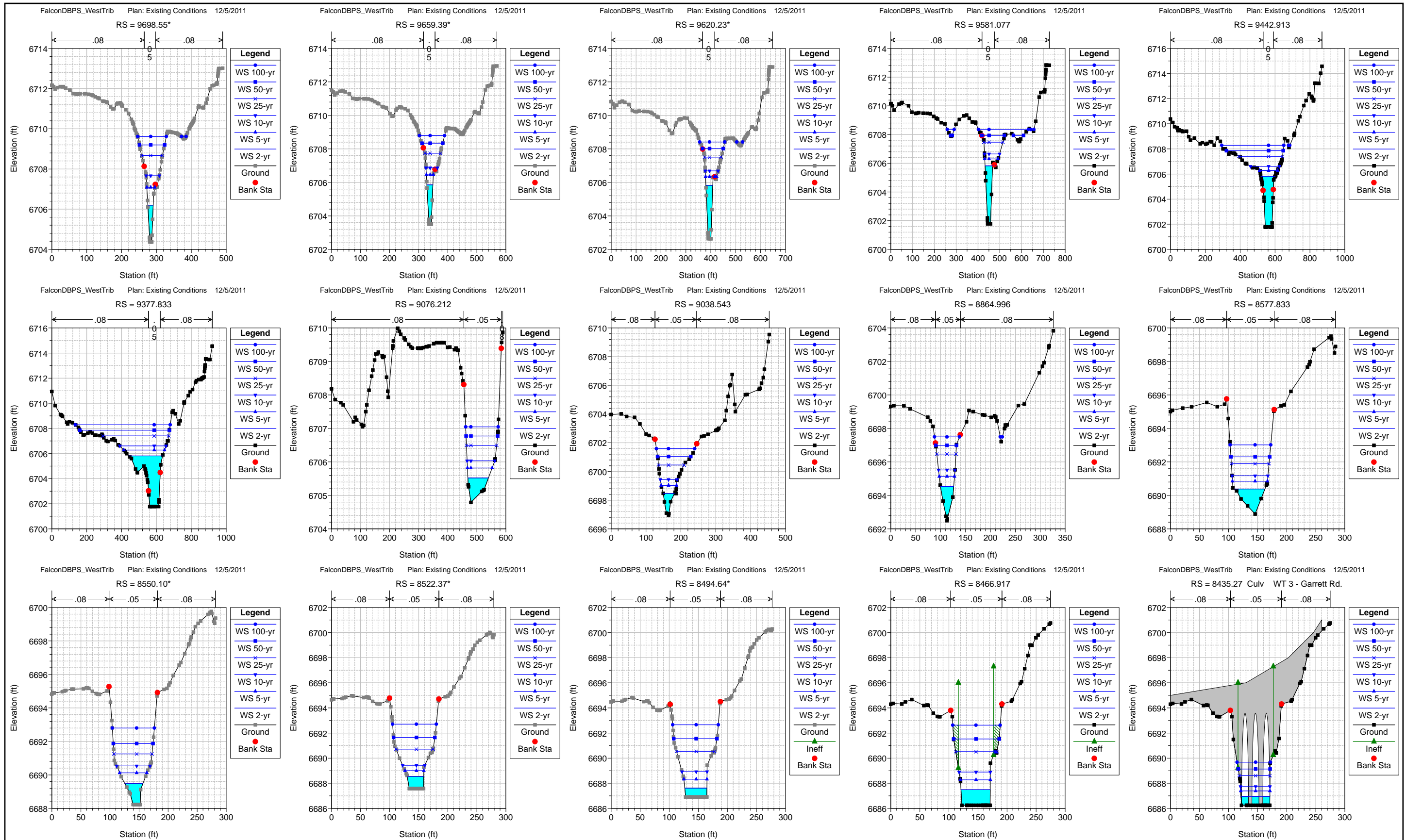


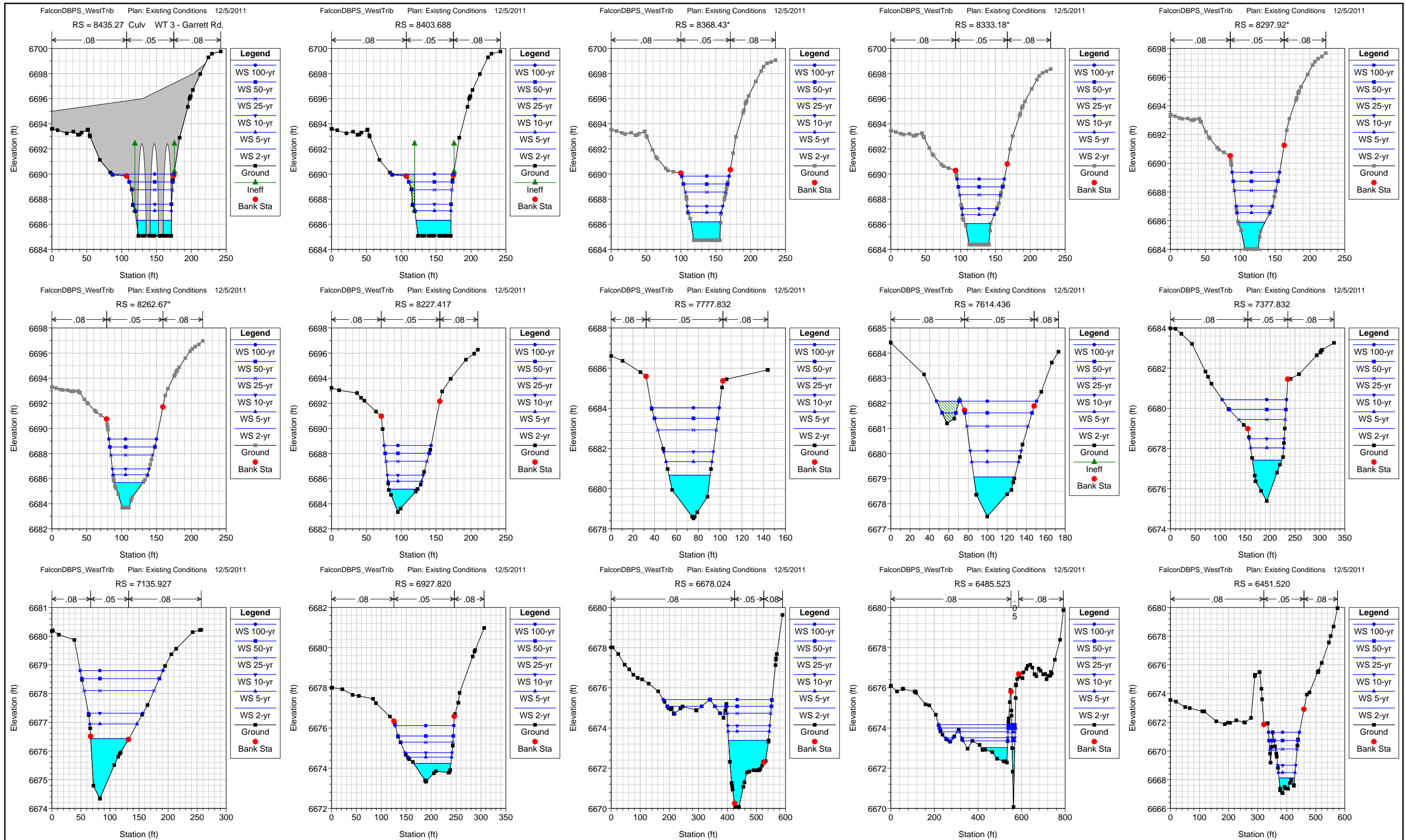


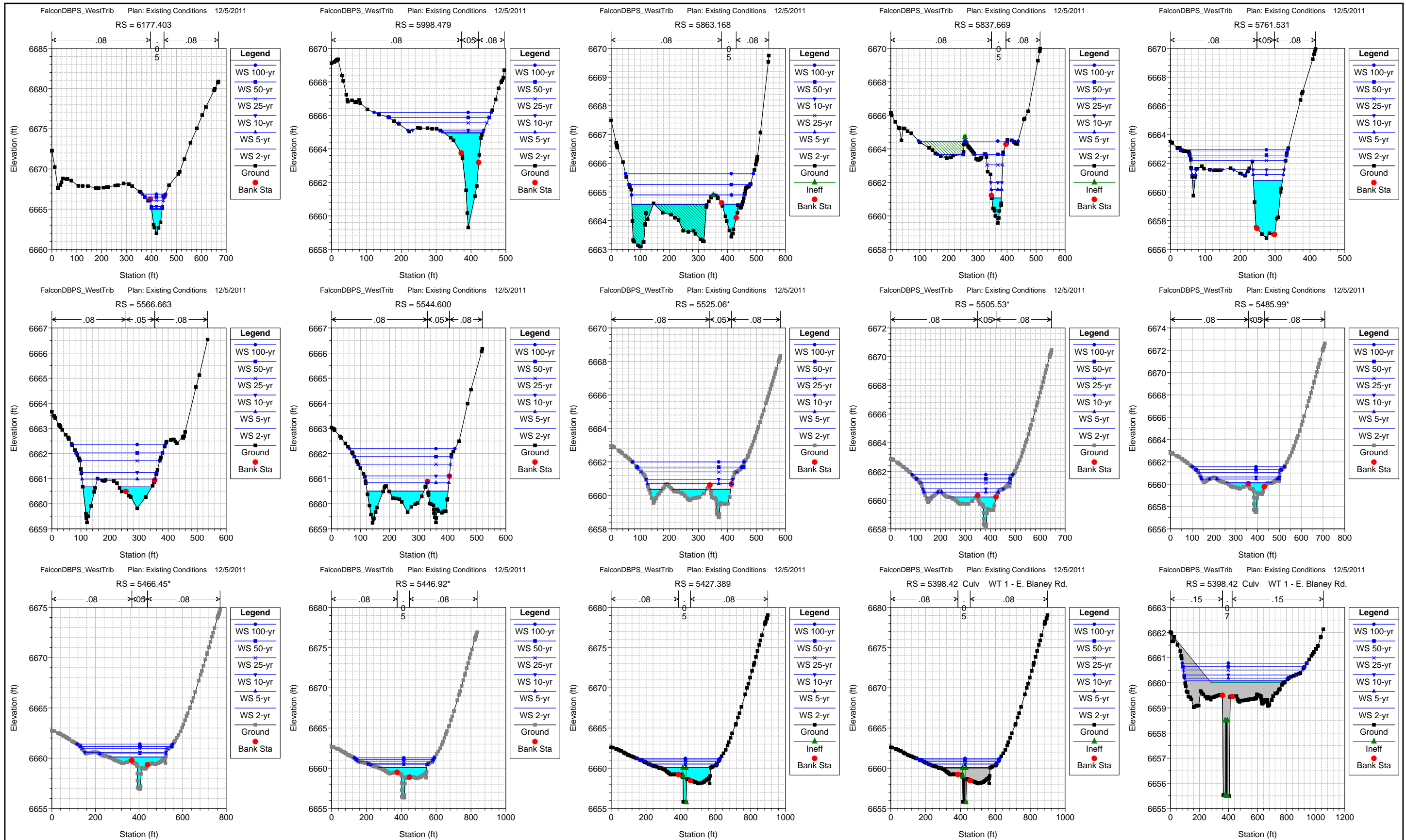


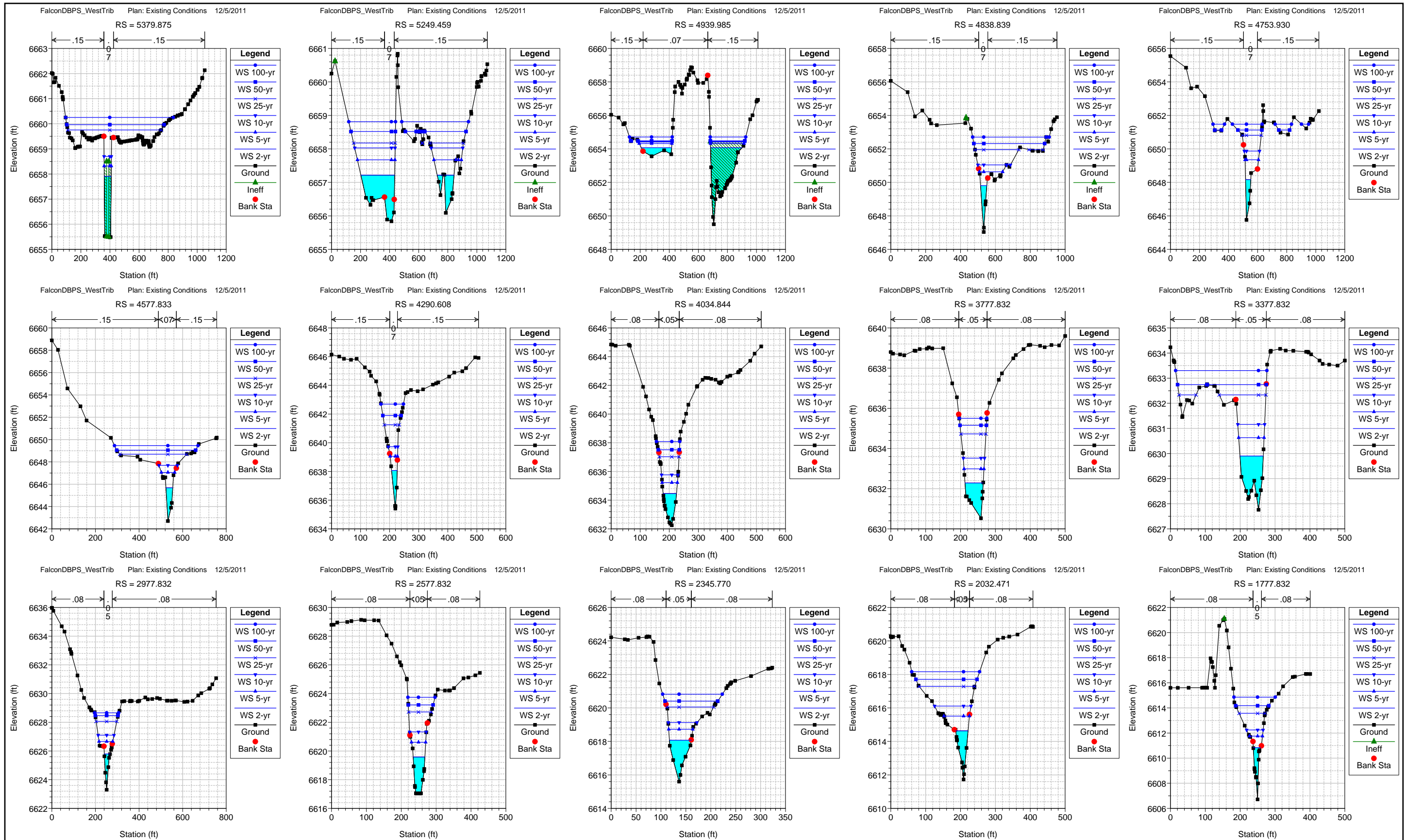


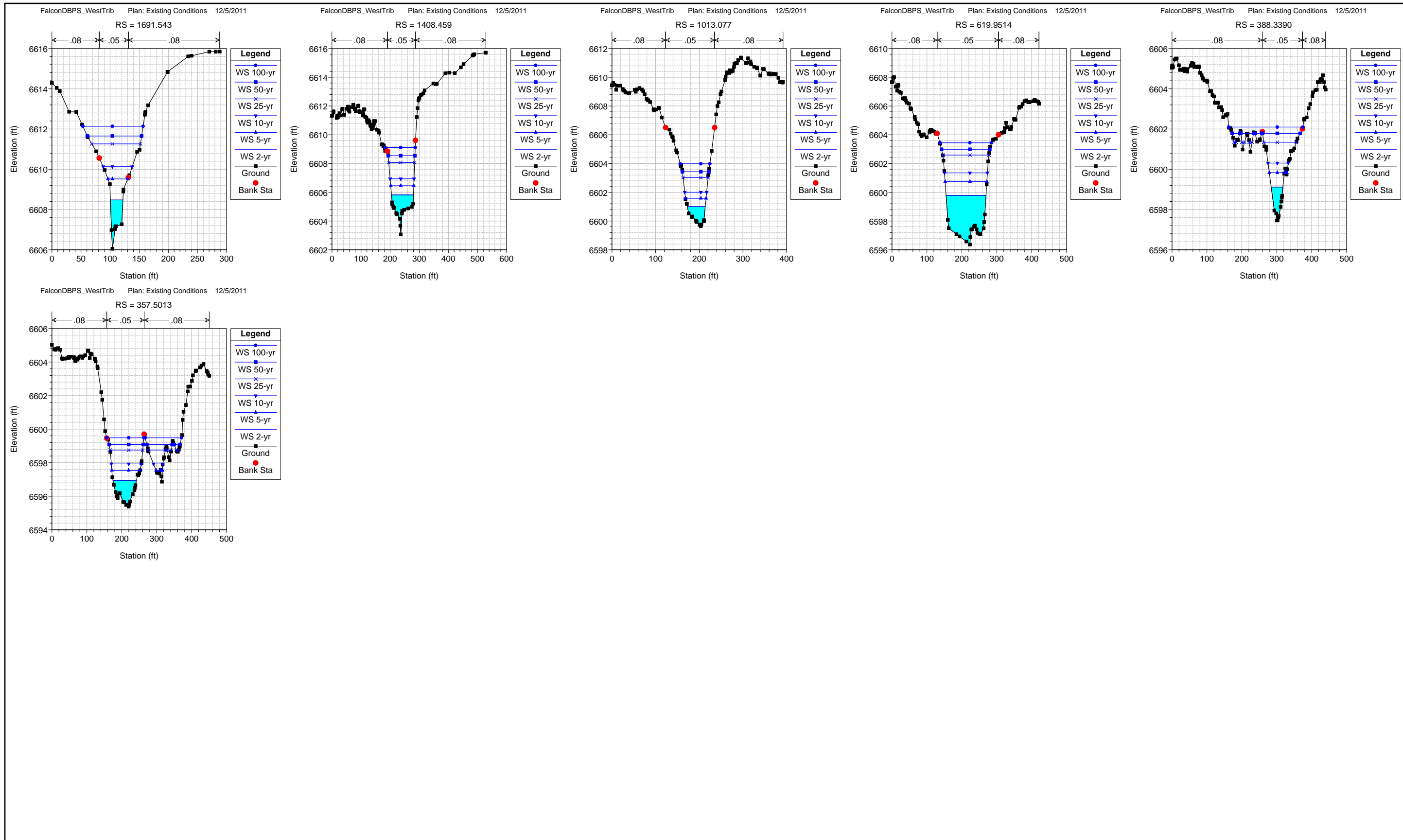






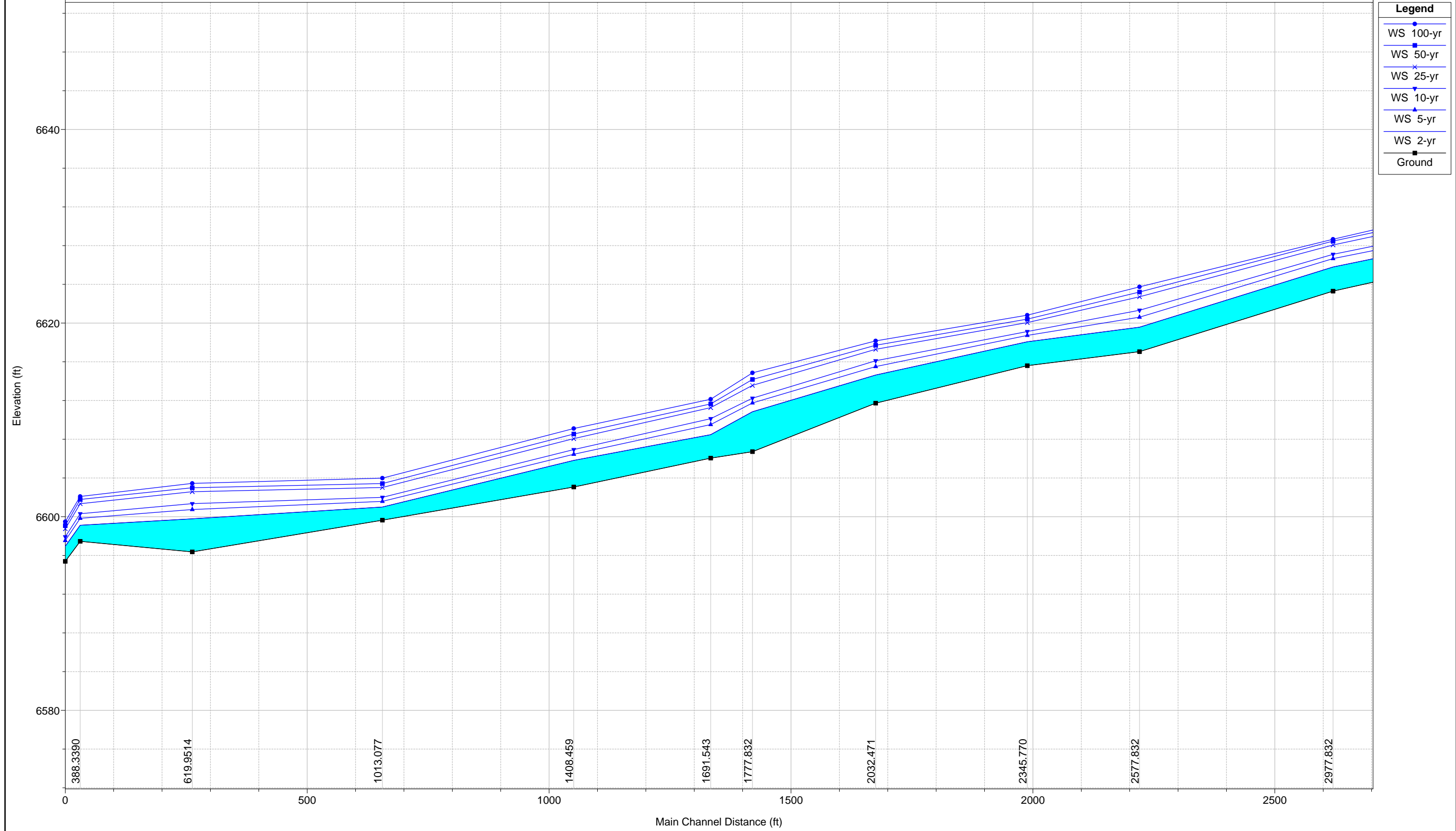






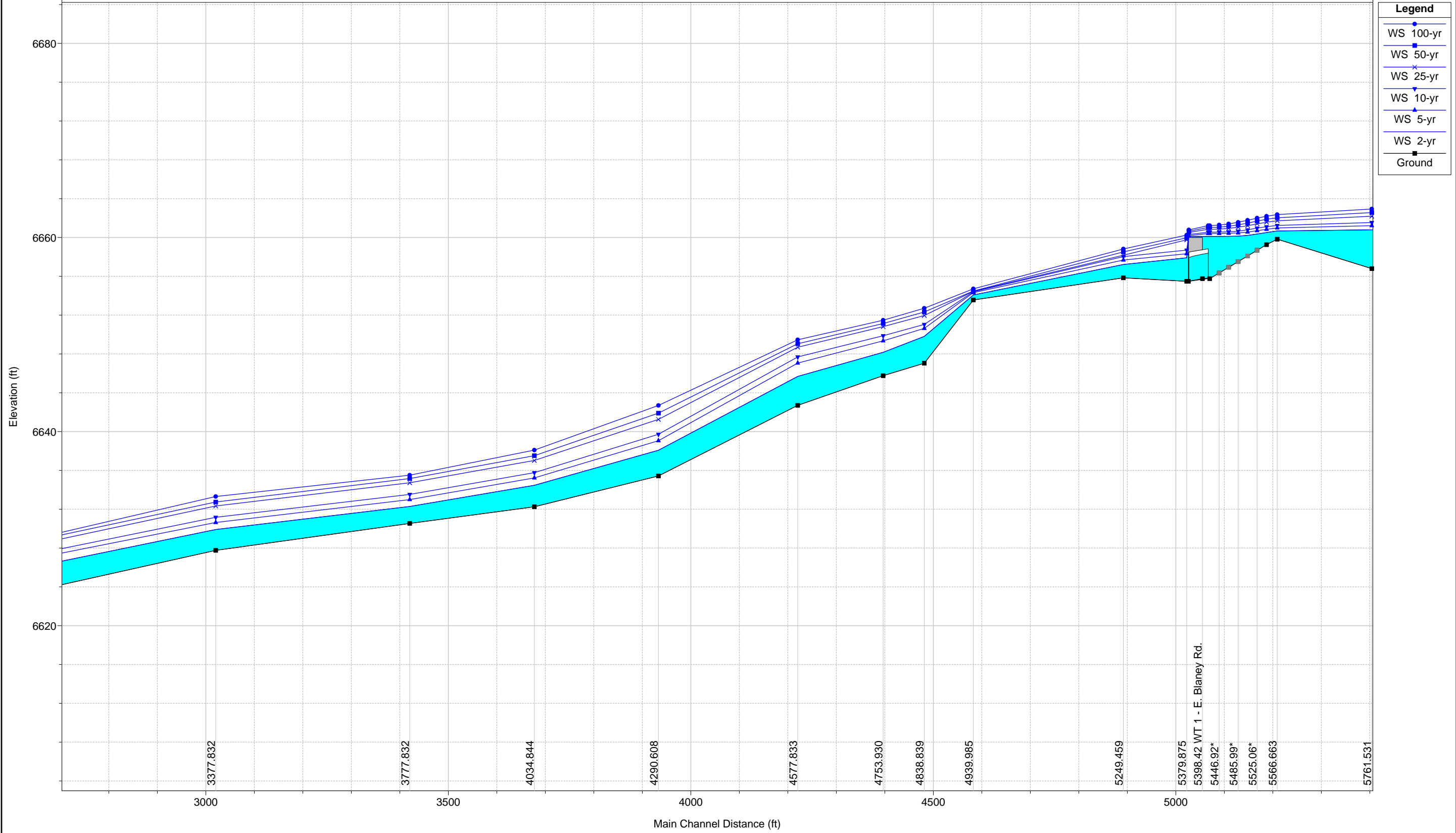
FalconDBPS_WestTrib Plan: Existing Conditions 12/5/2011

FalconDBPS WestTrib



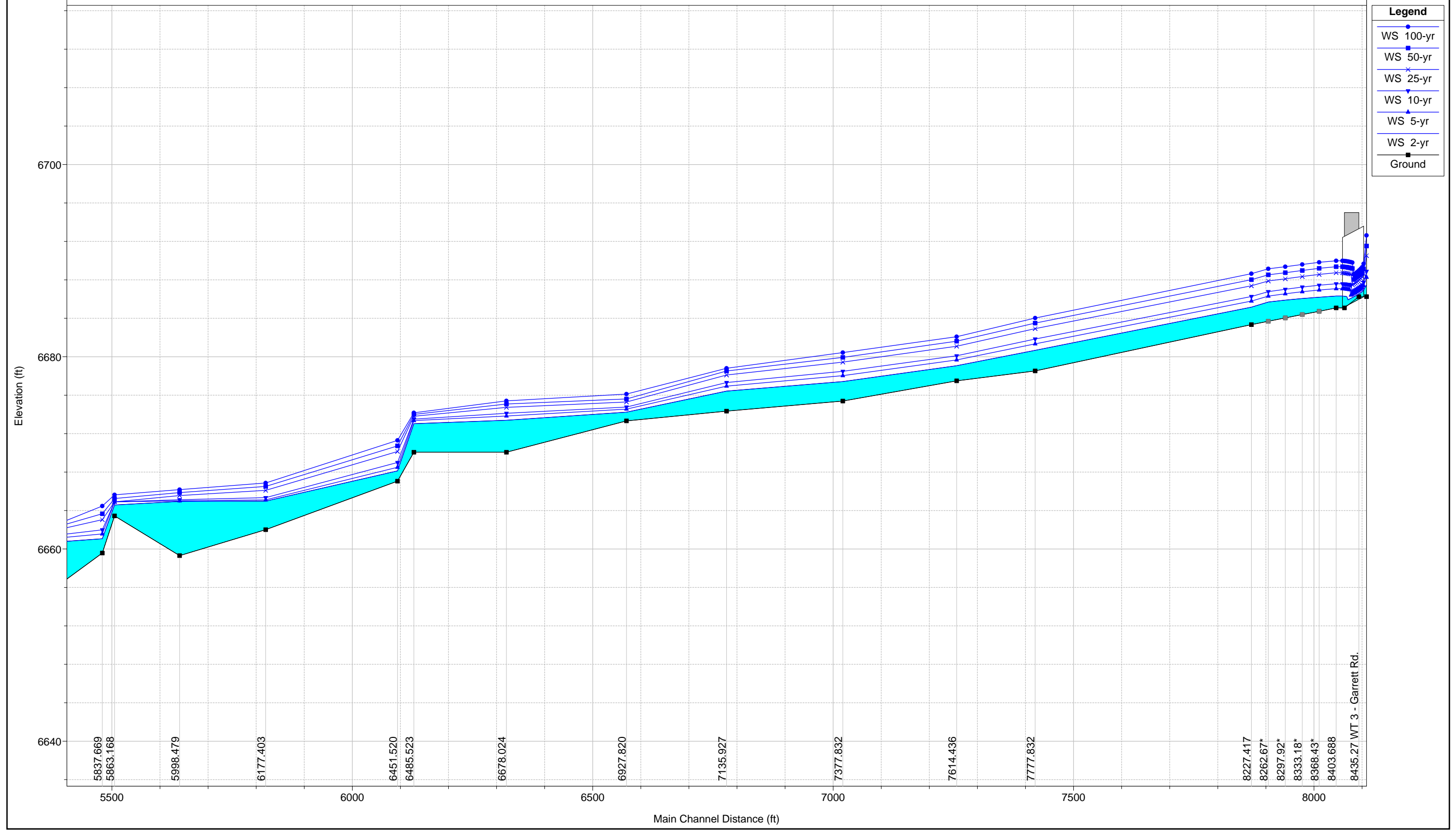
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



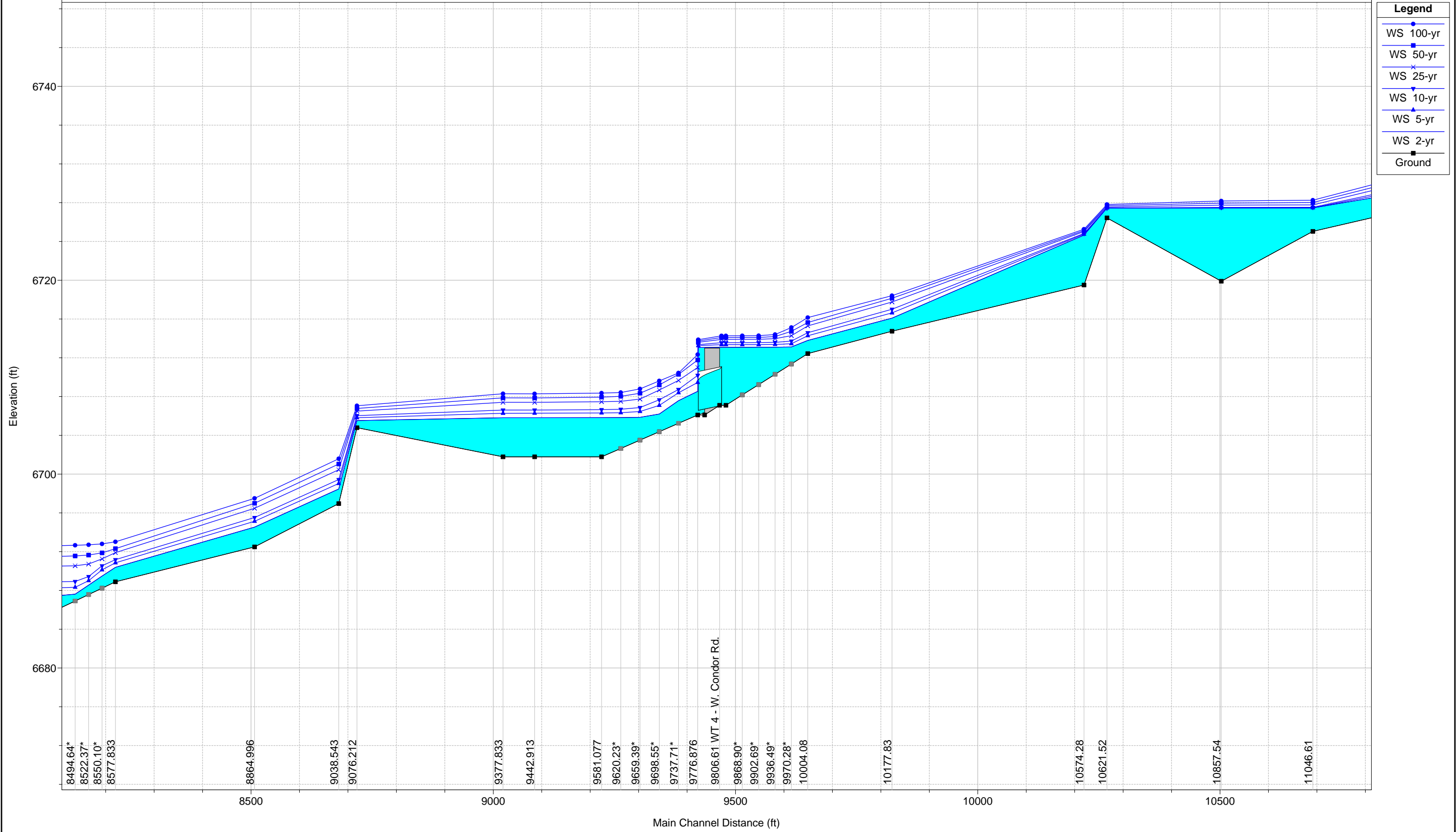
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FalconDBPS WestTrib



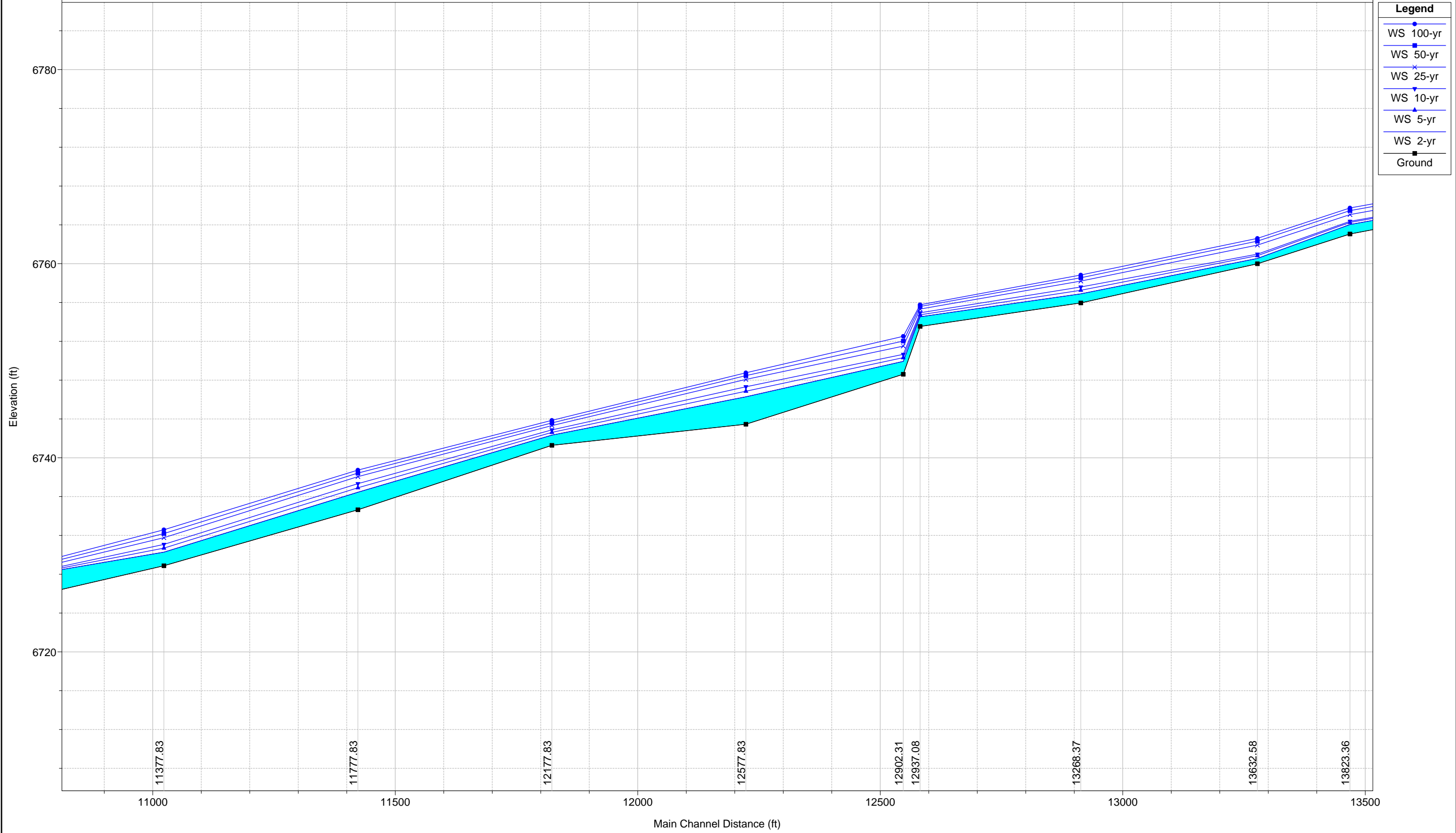
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



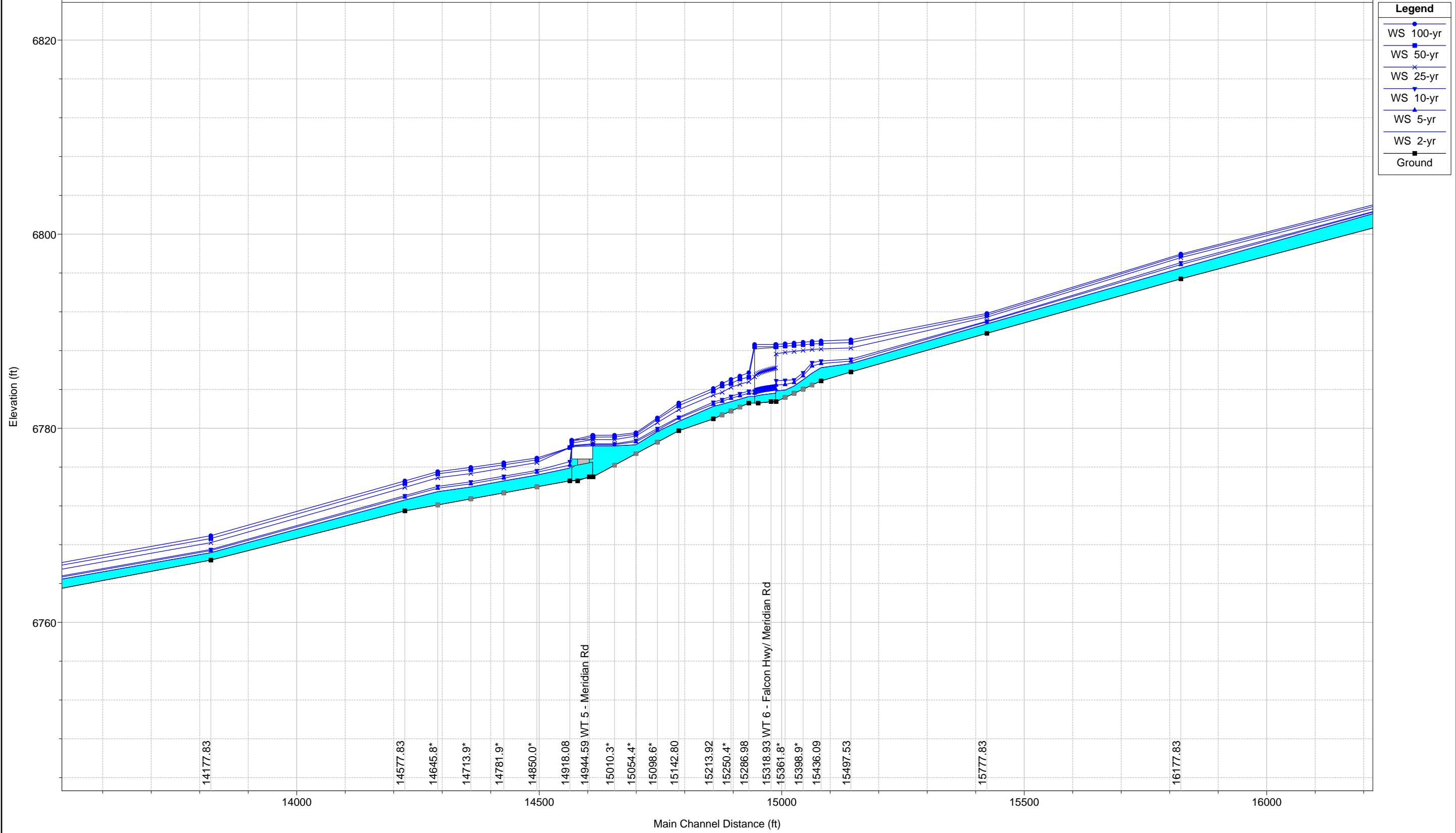
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



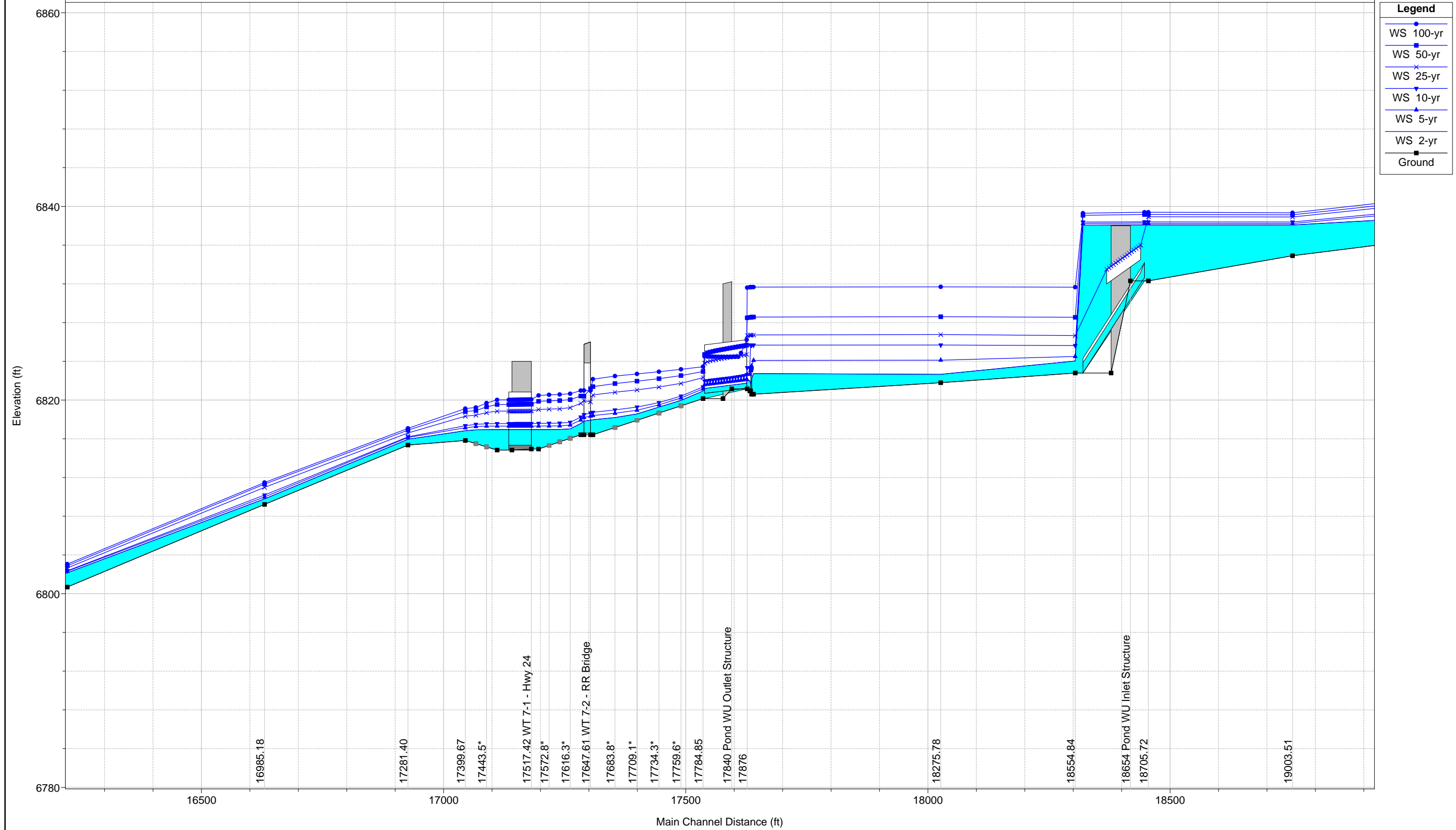
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



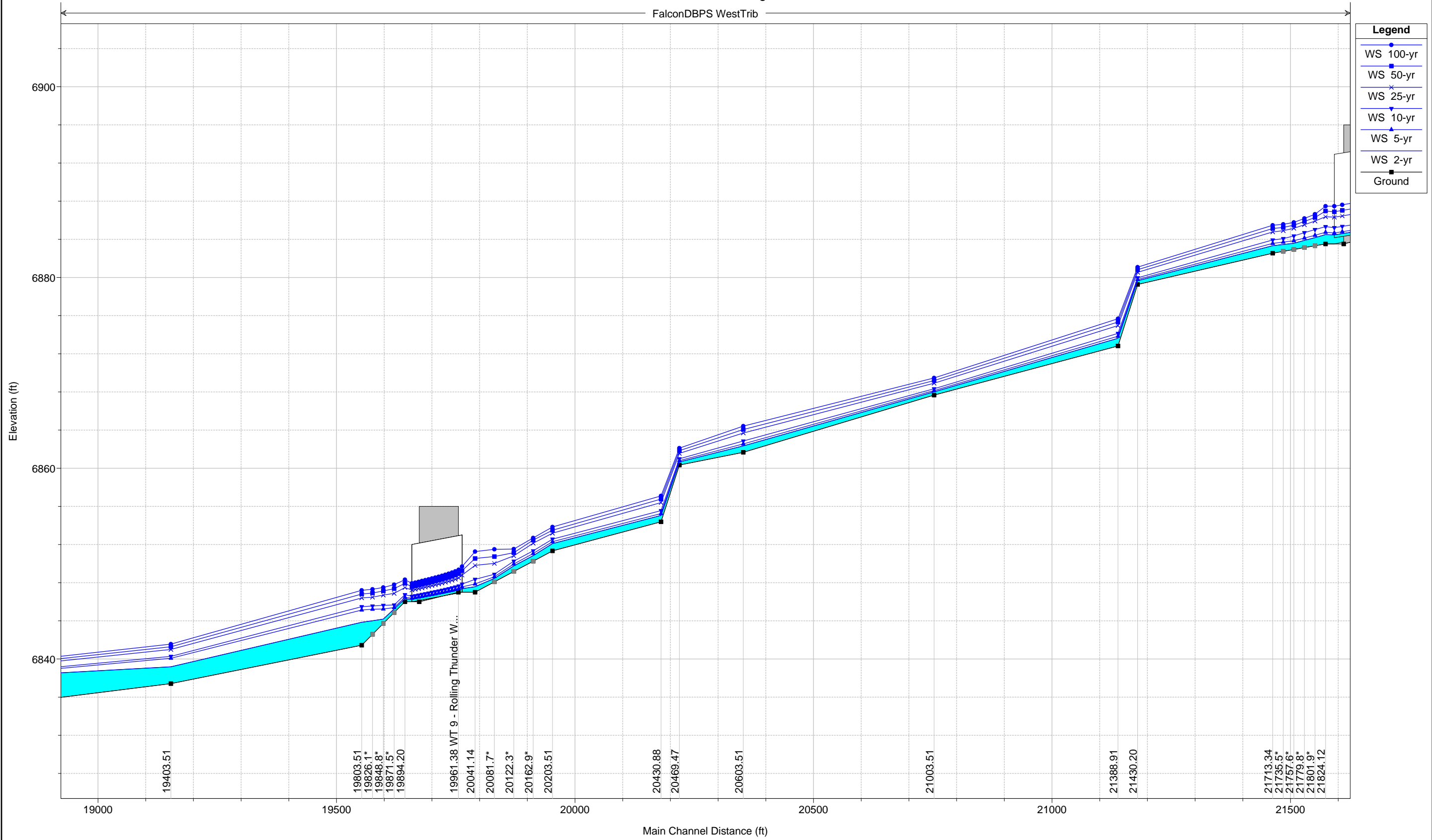
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



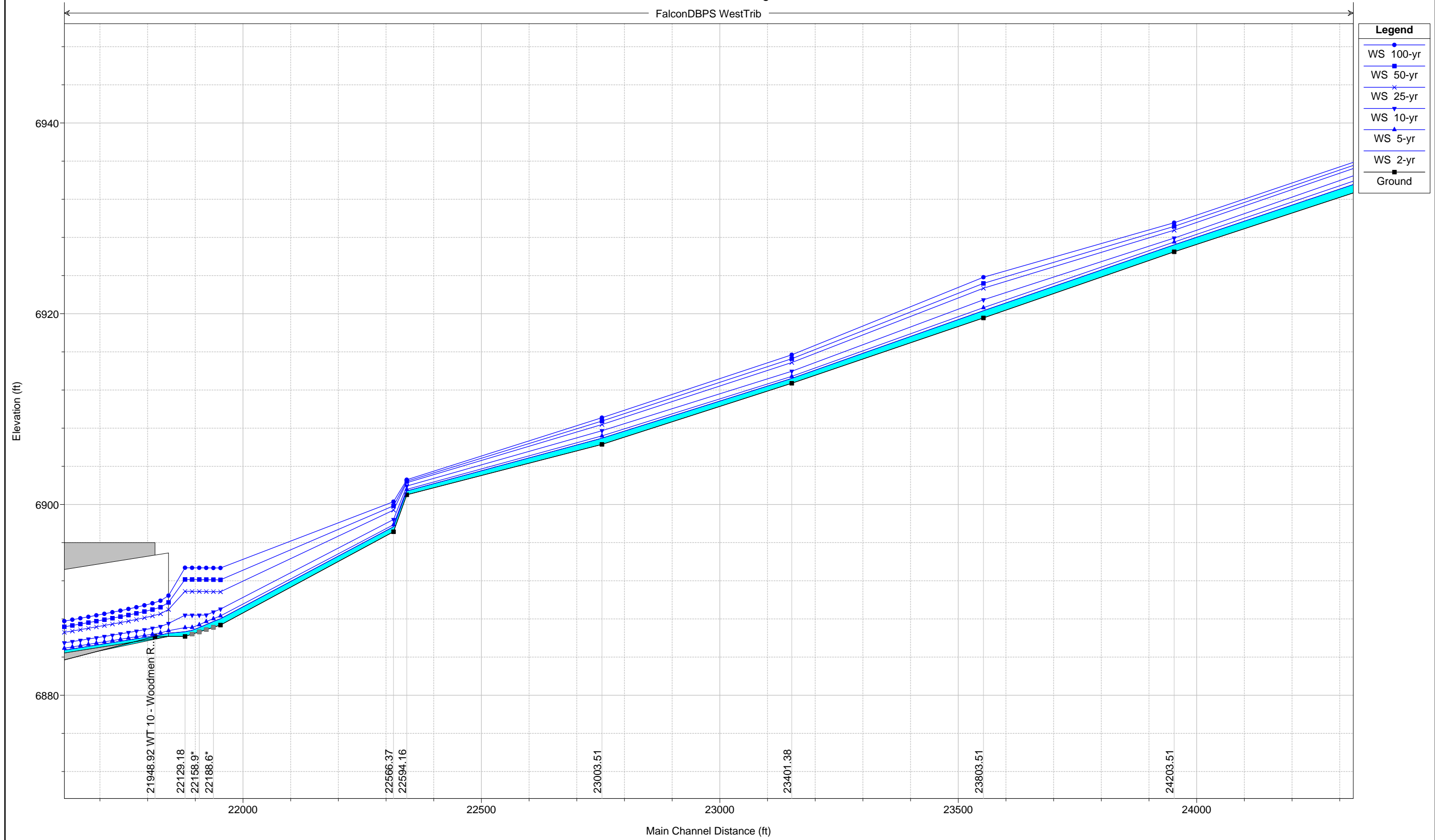
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



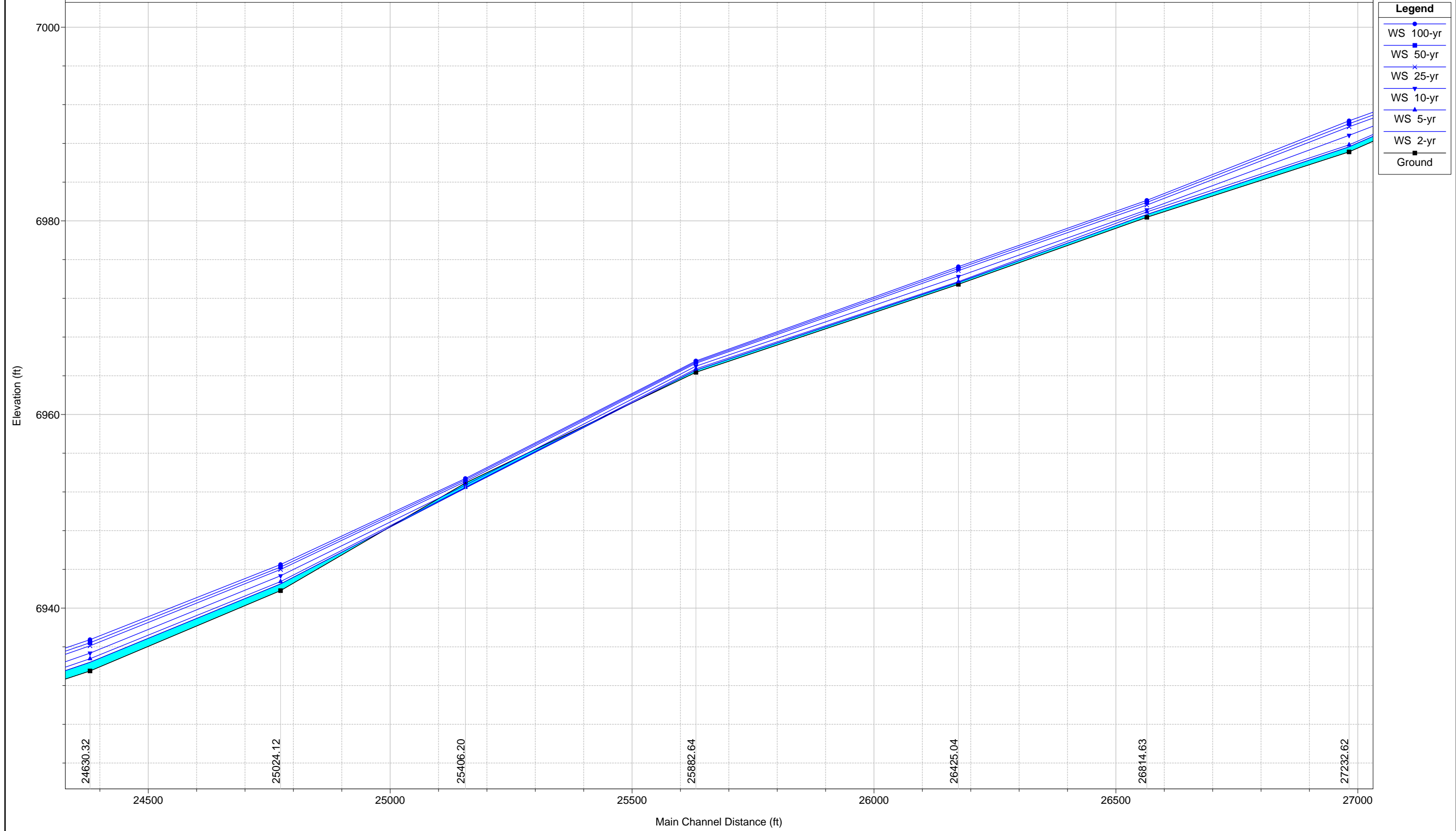
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



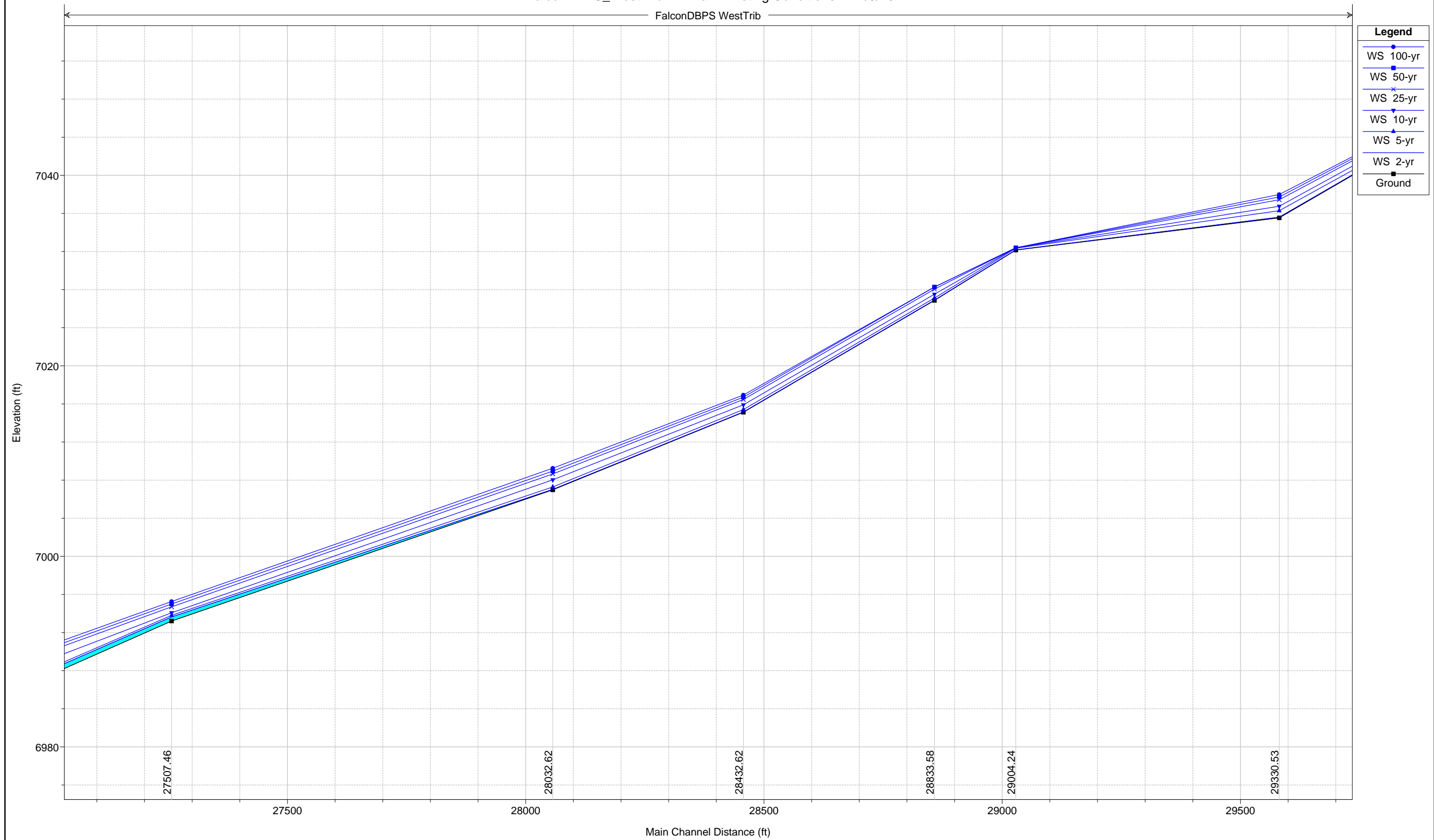
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



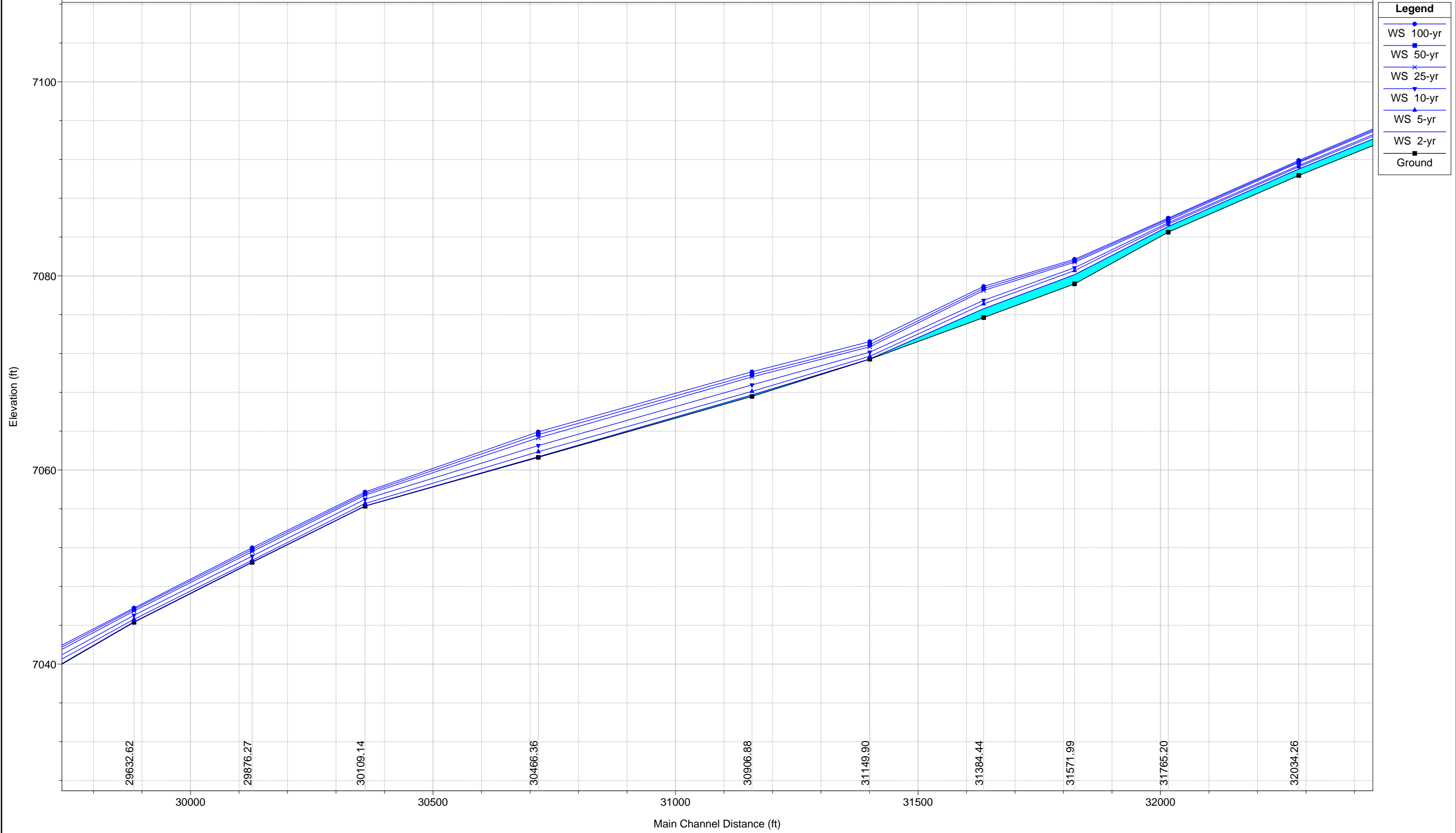
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



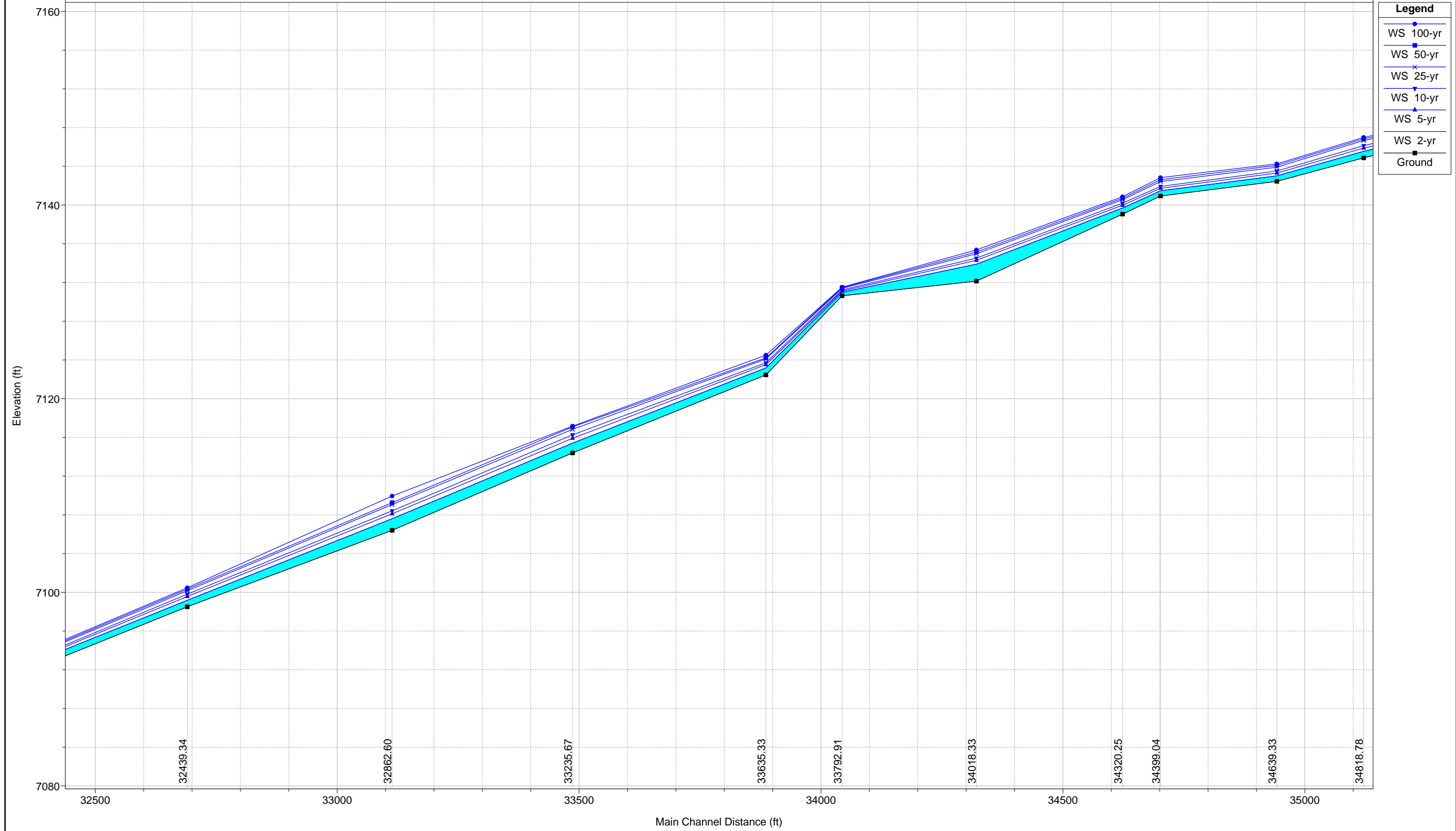
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



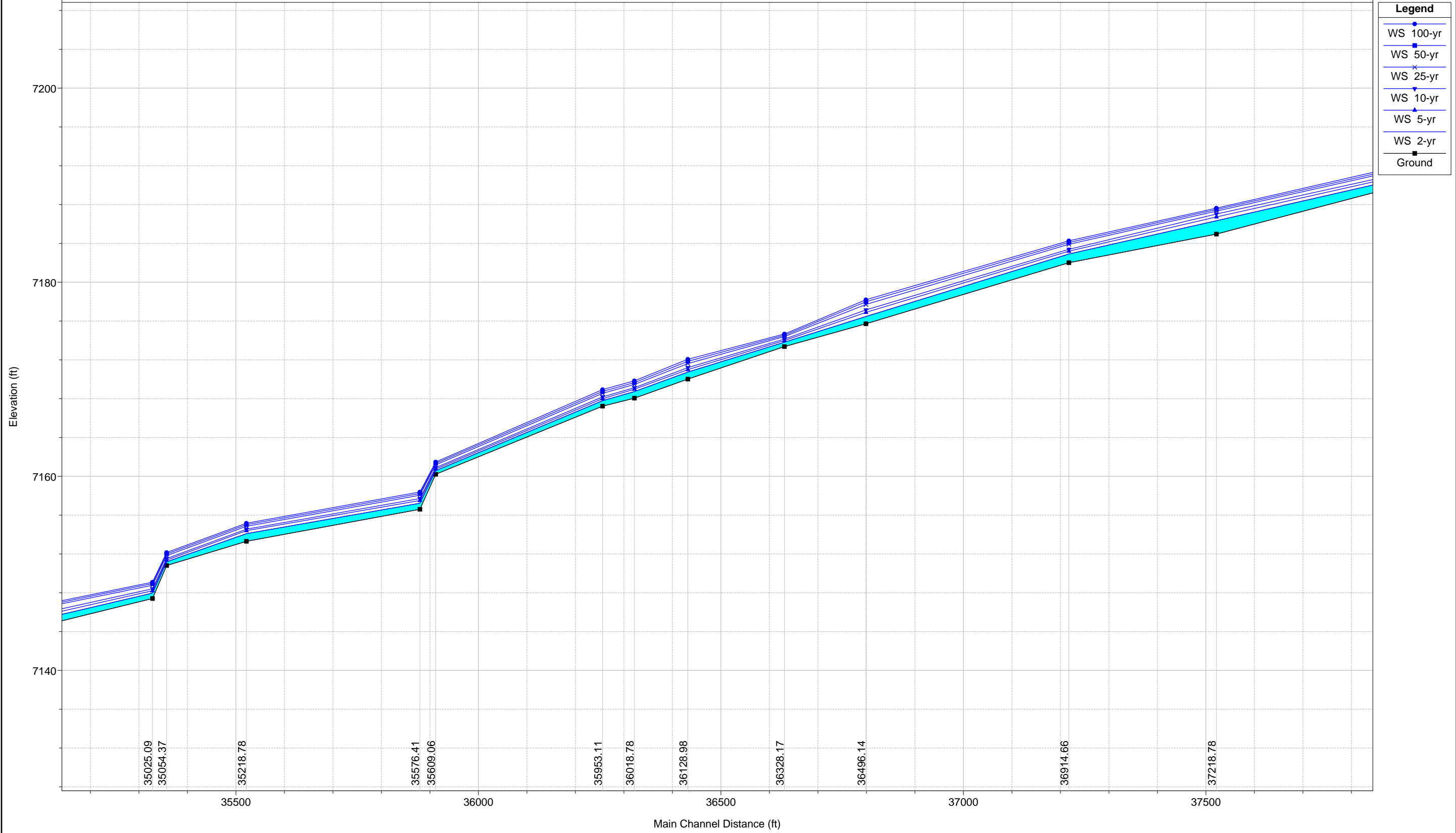
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib

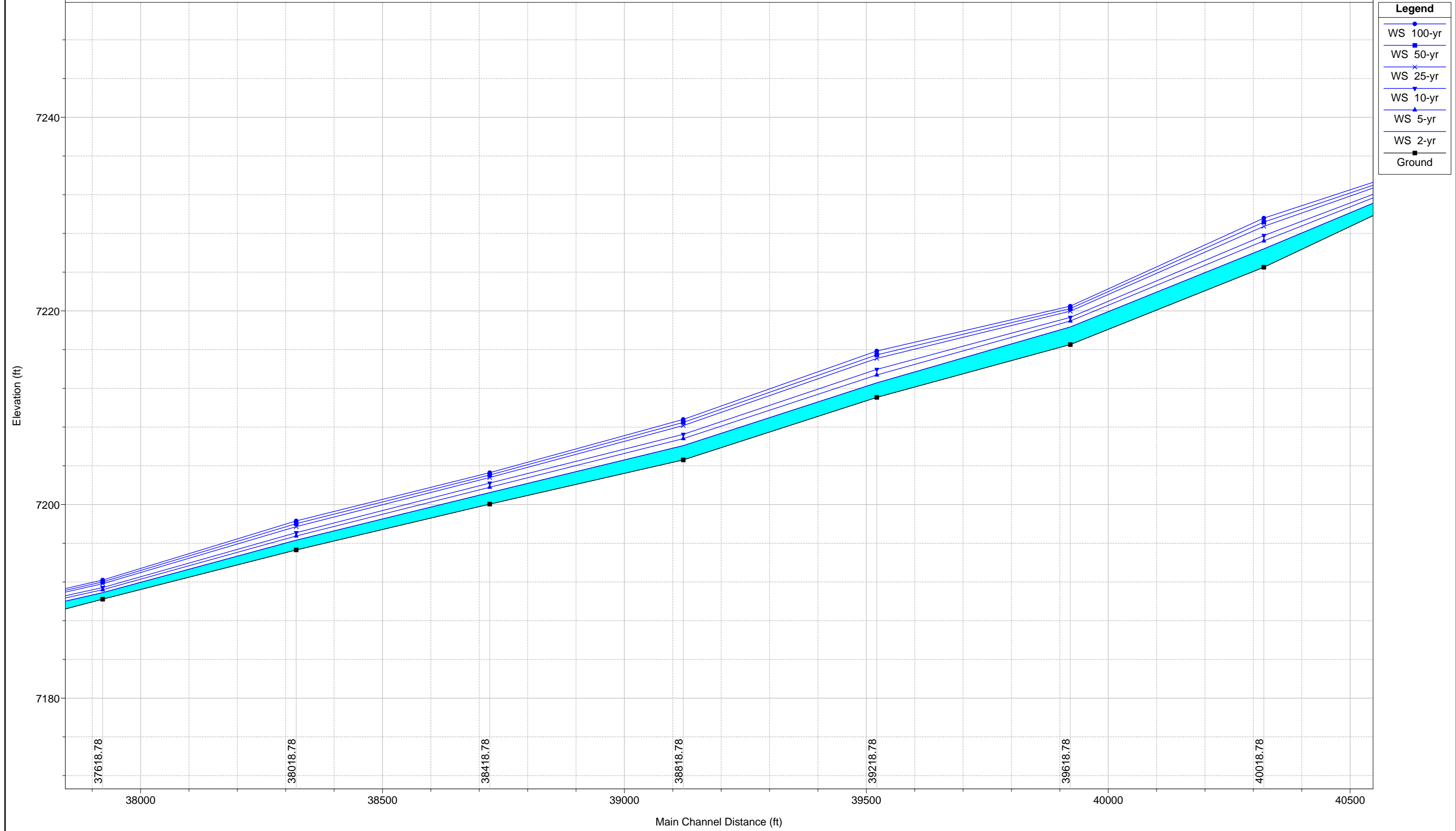


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib

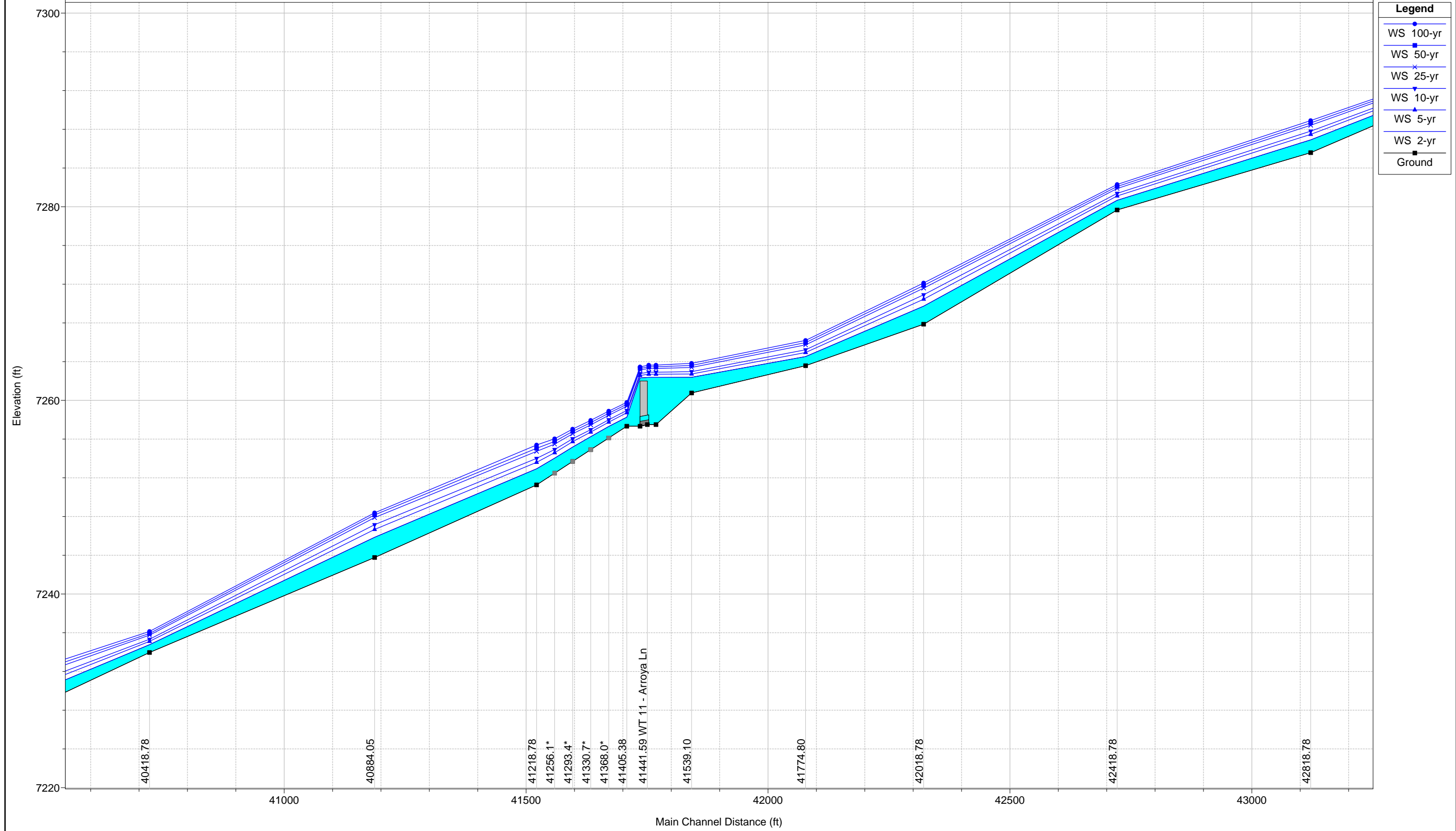


1 in Horiz. = 200 ft 1 in Vert. = 10 ft



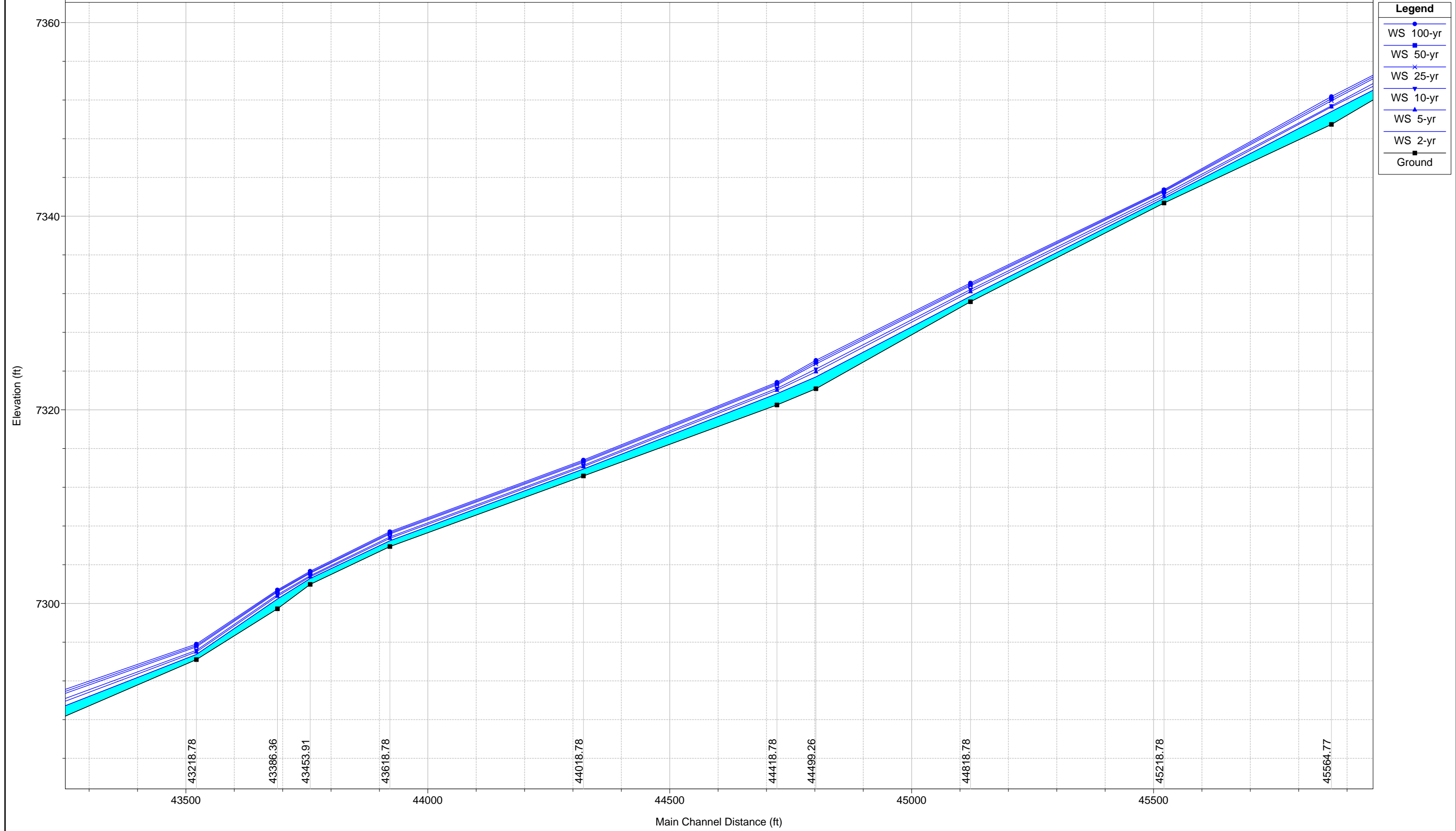
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



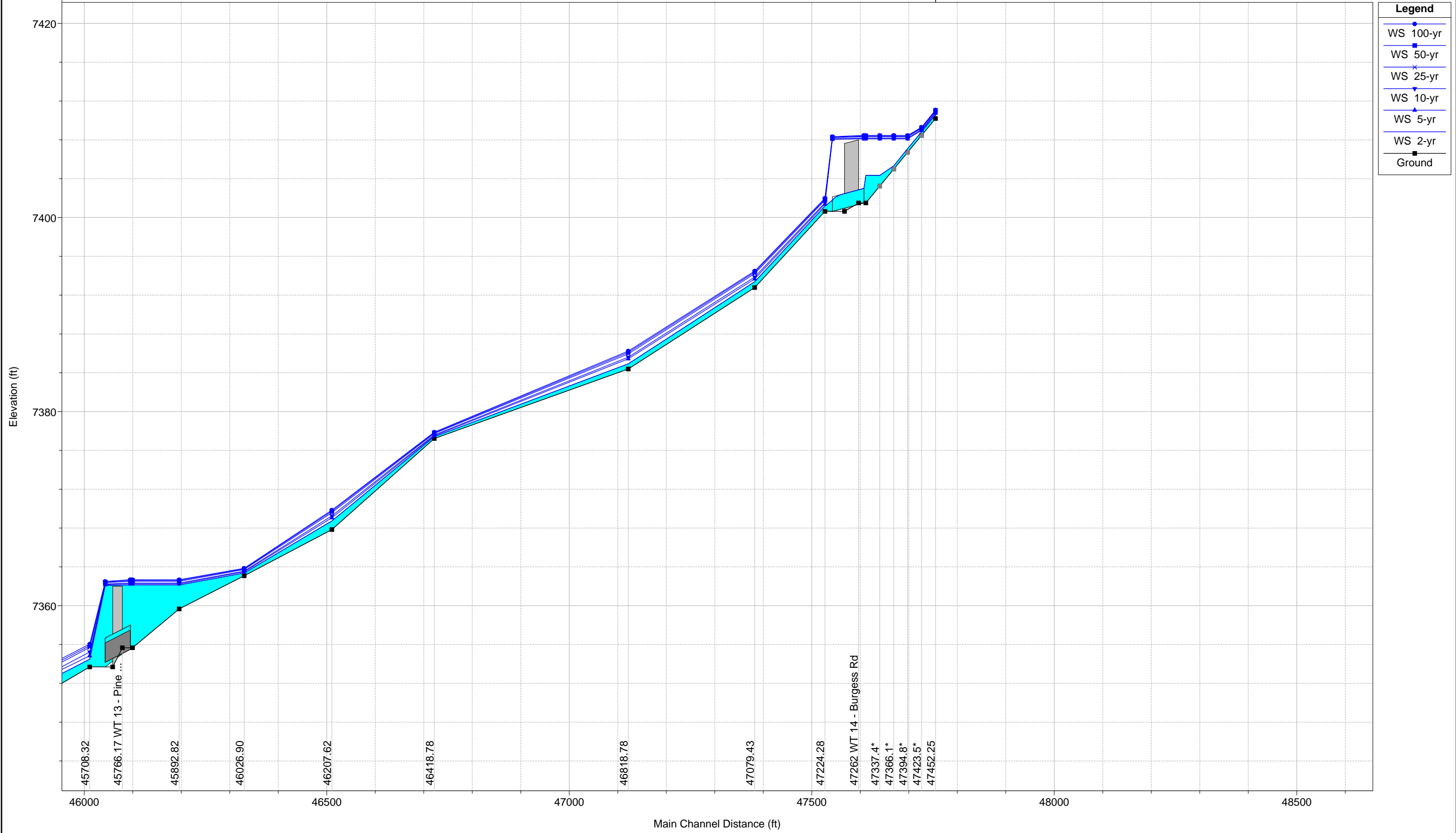
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



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

FalconDBPS WestTrib



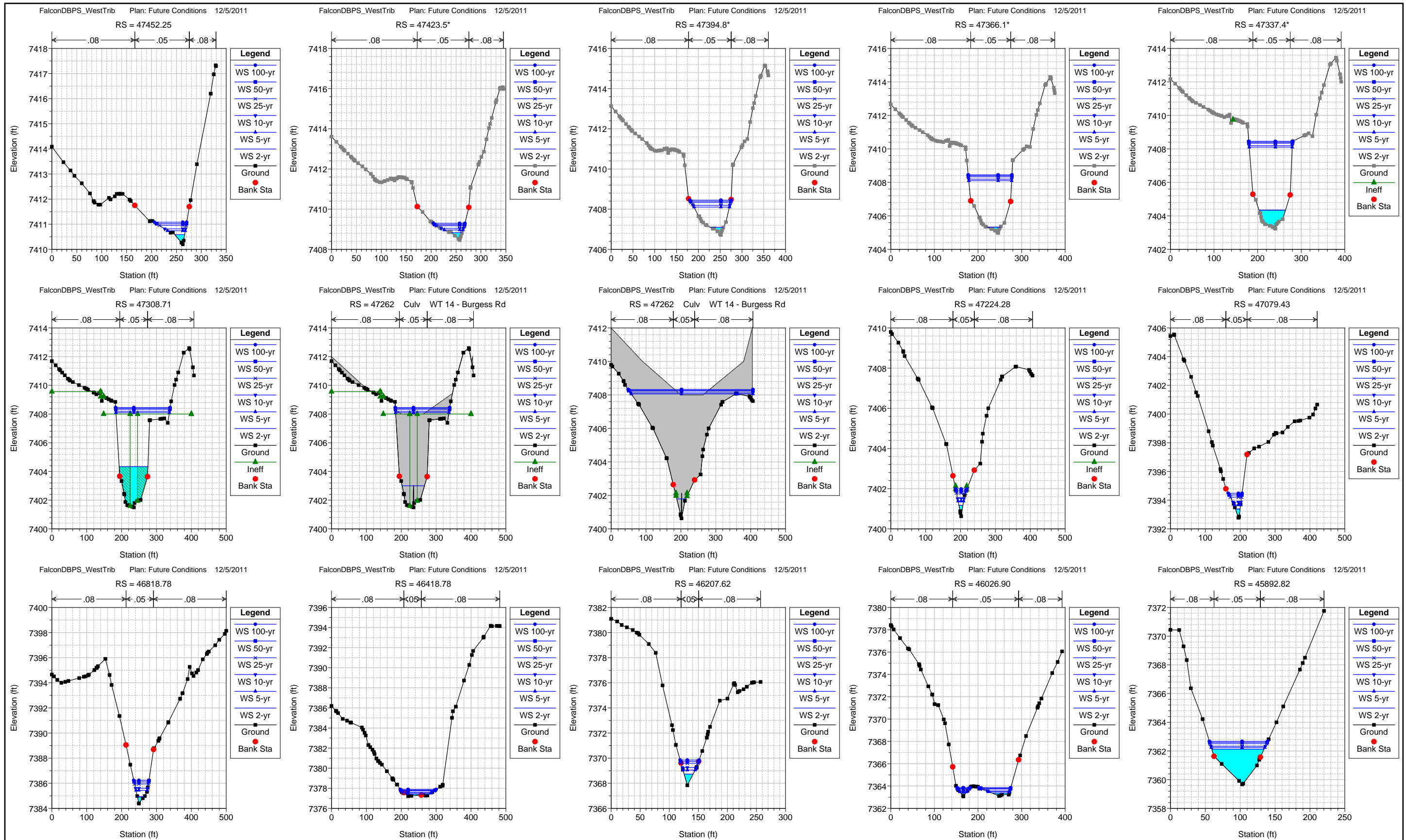
Legend

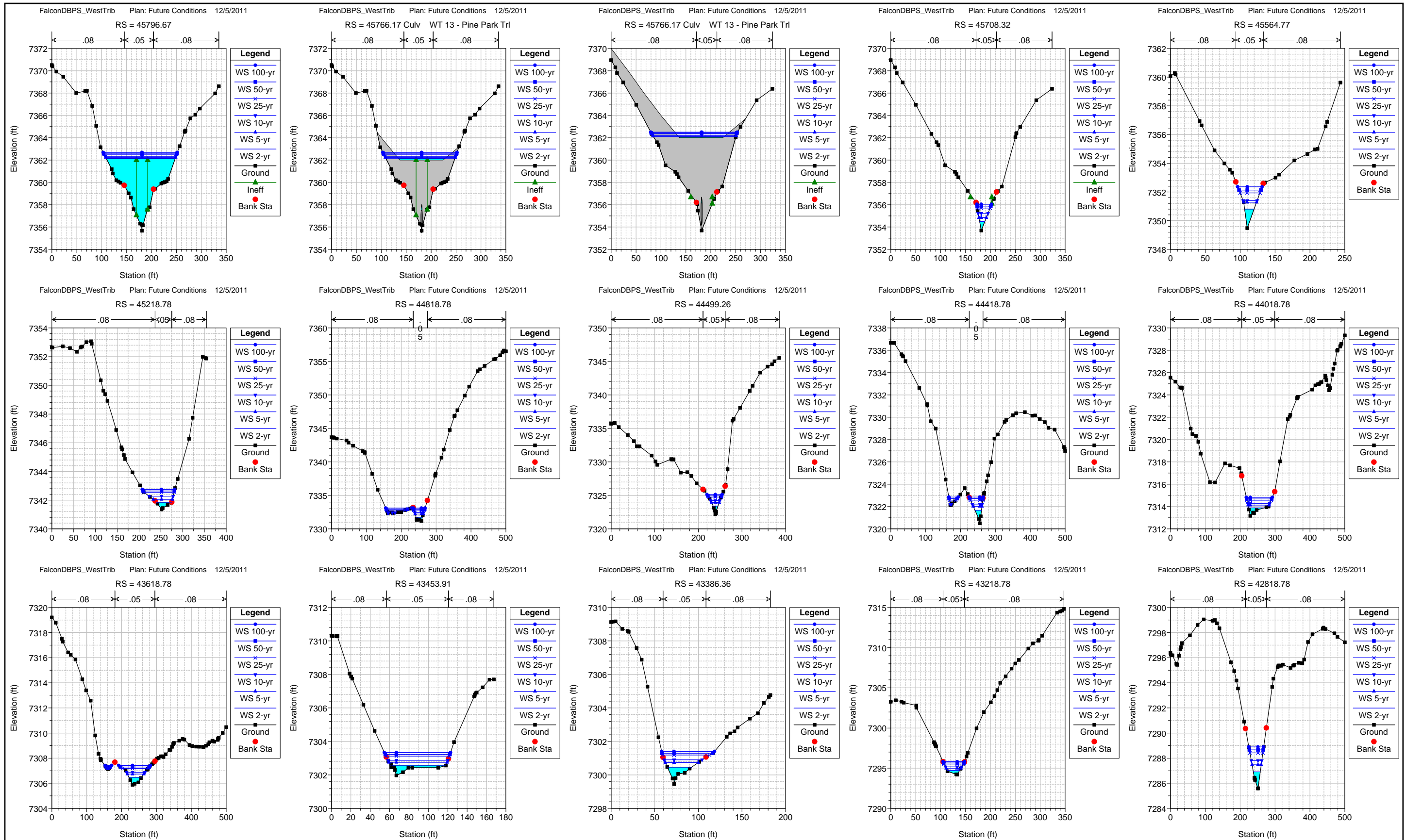
- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

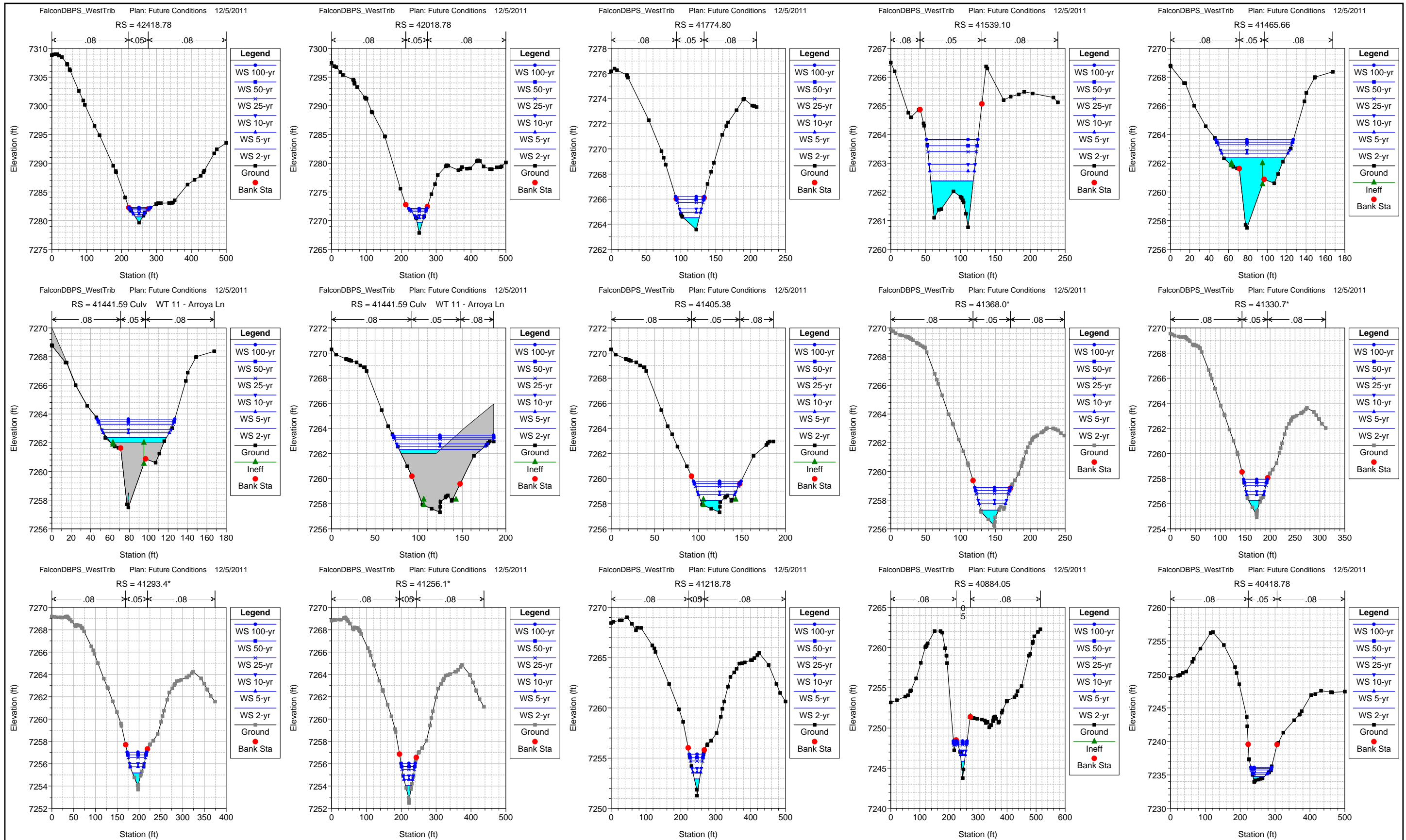
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

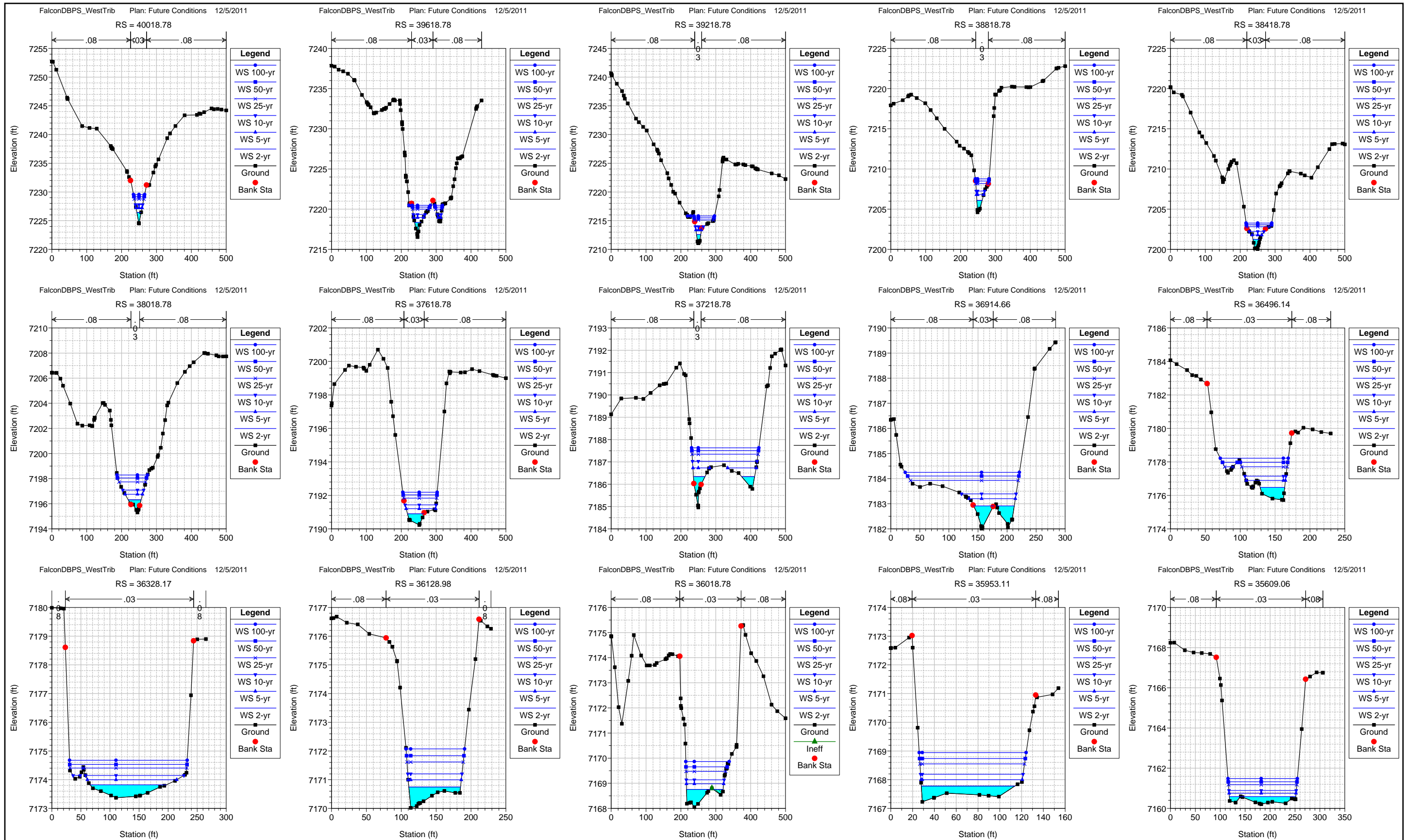
West Tributary – Future Conditions

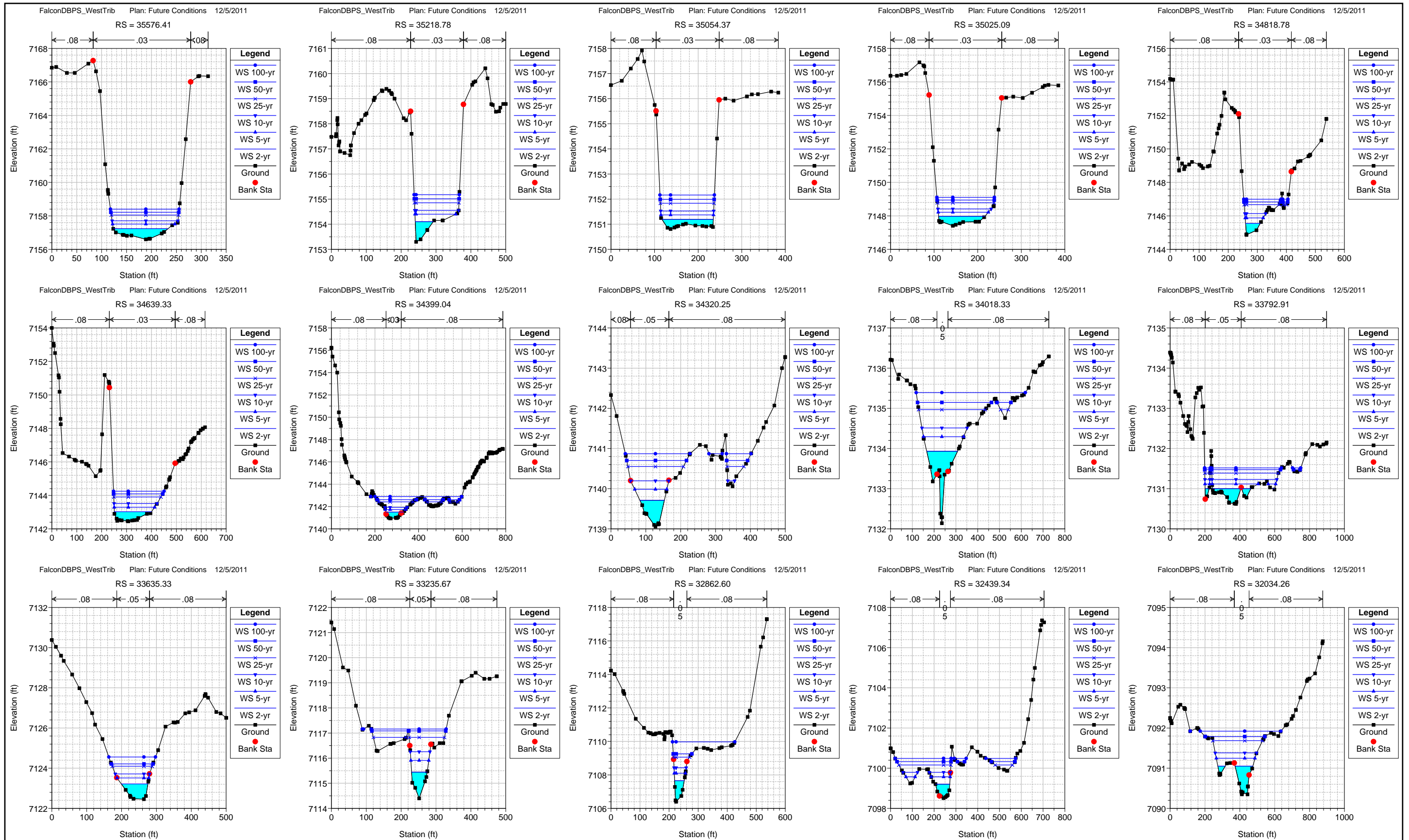
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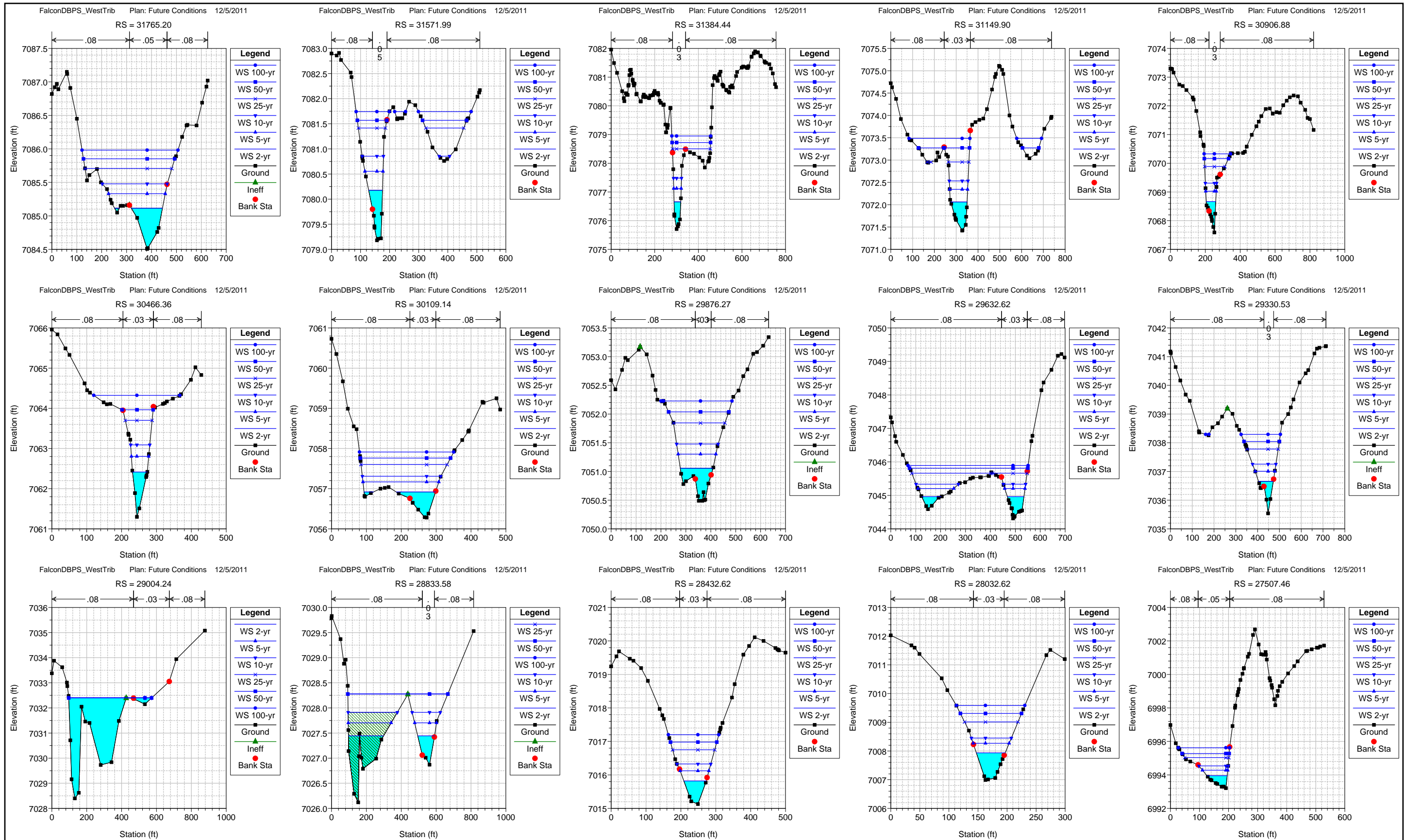


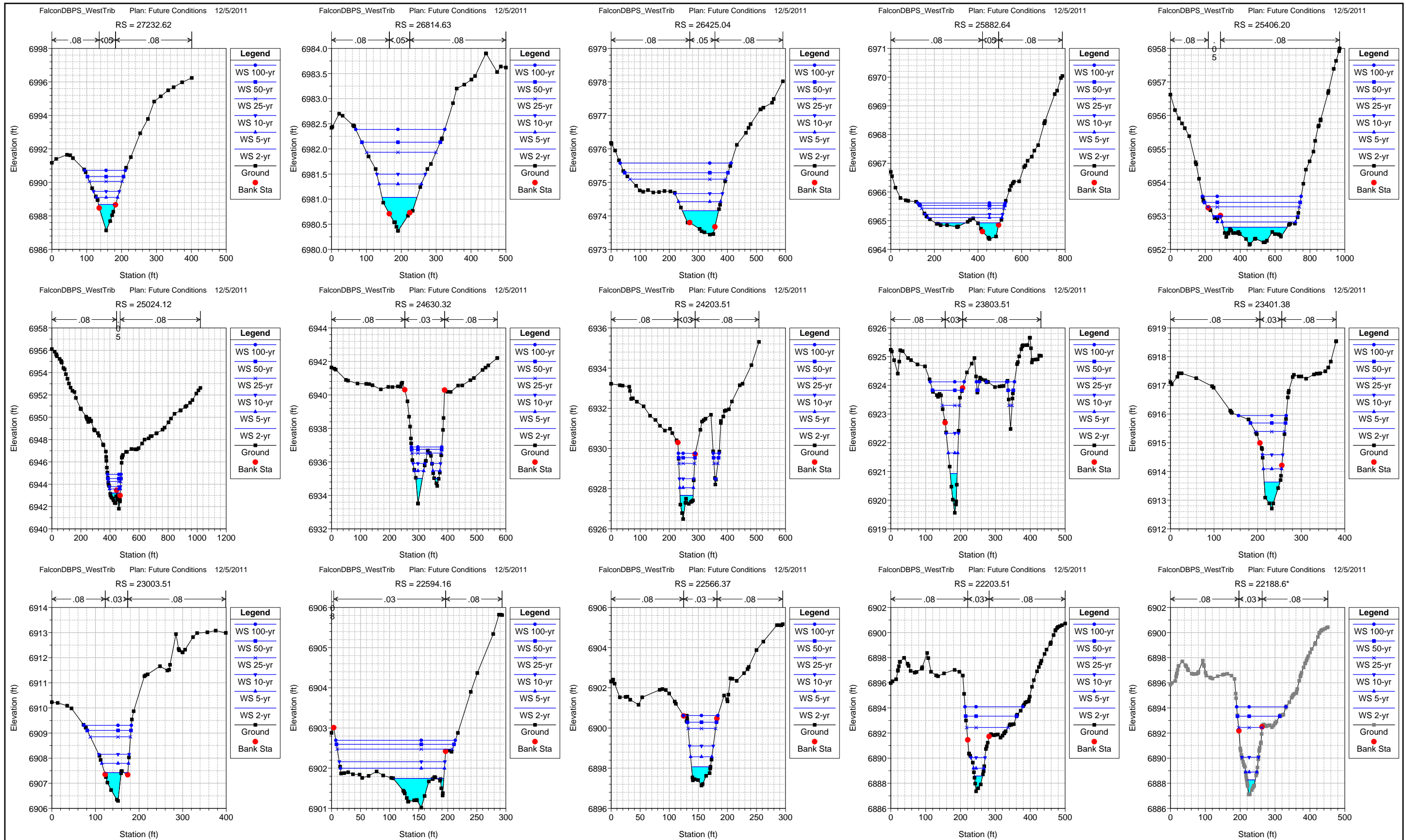


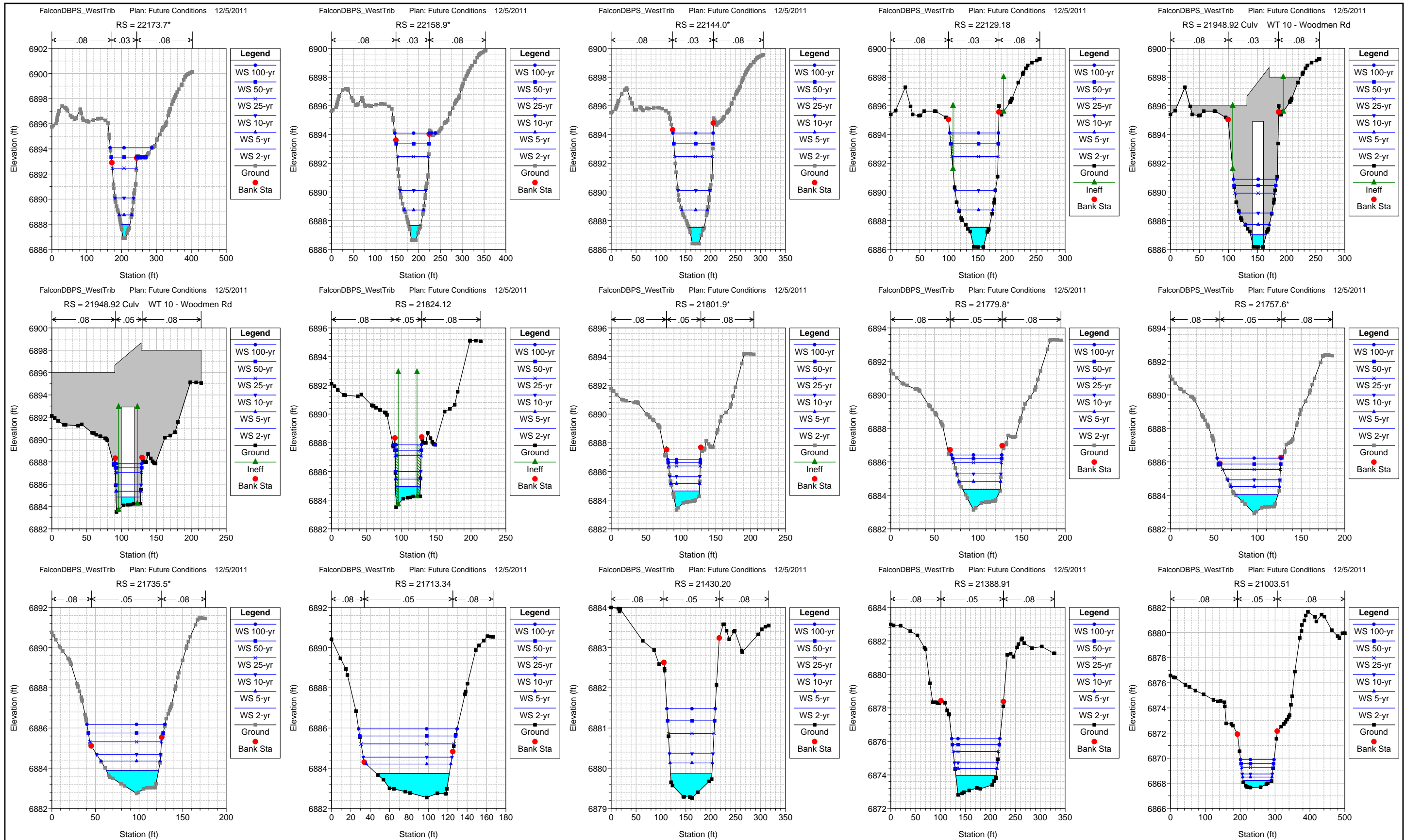


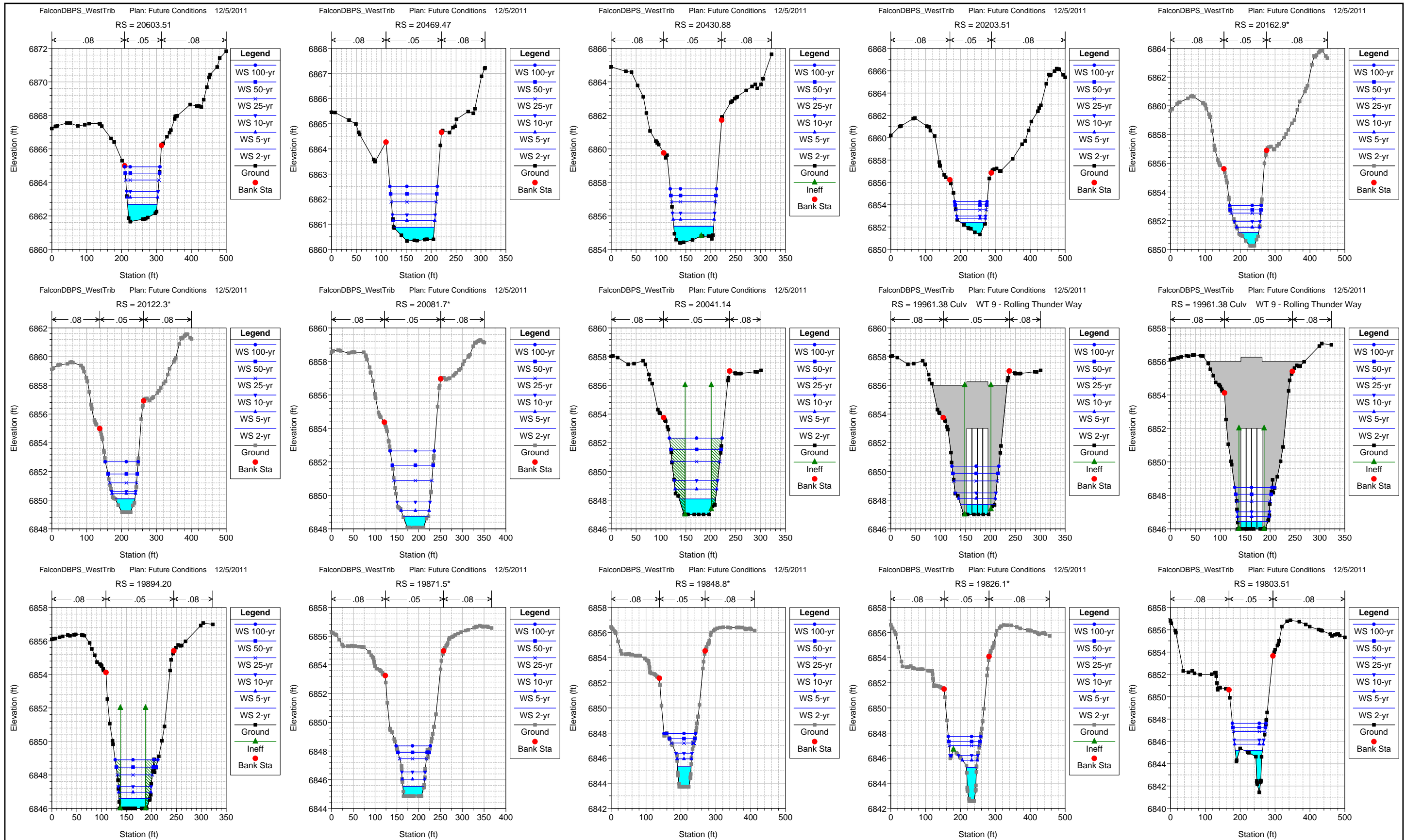


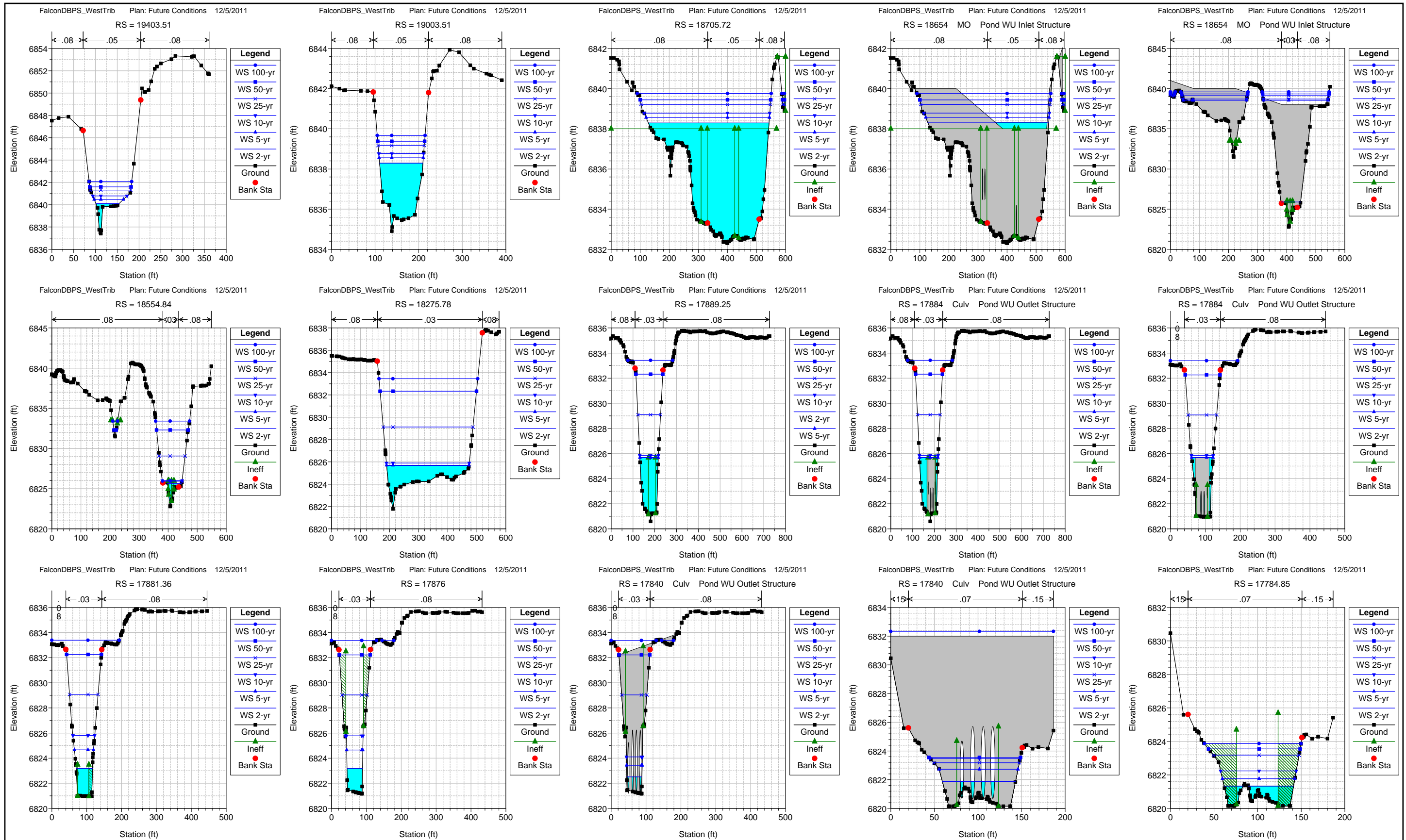


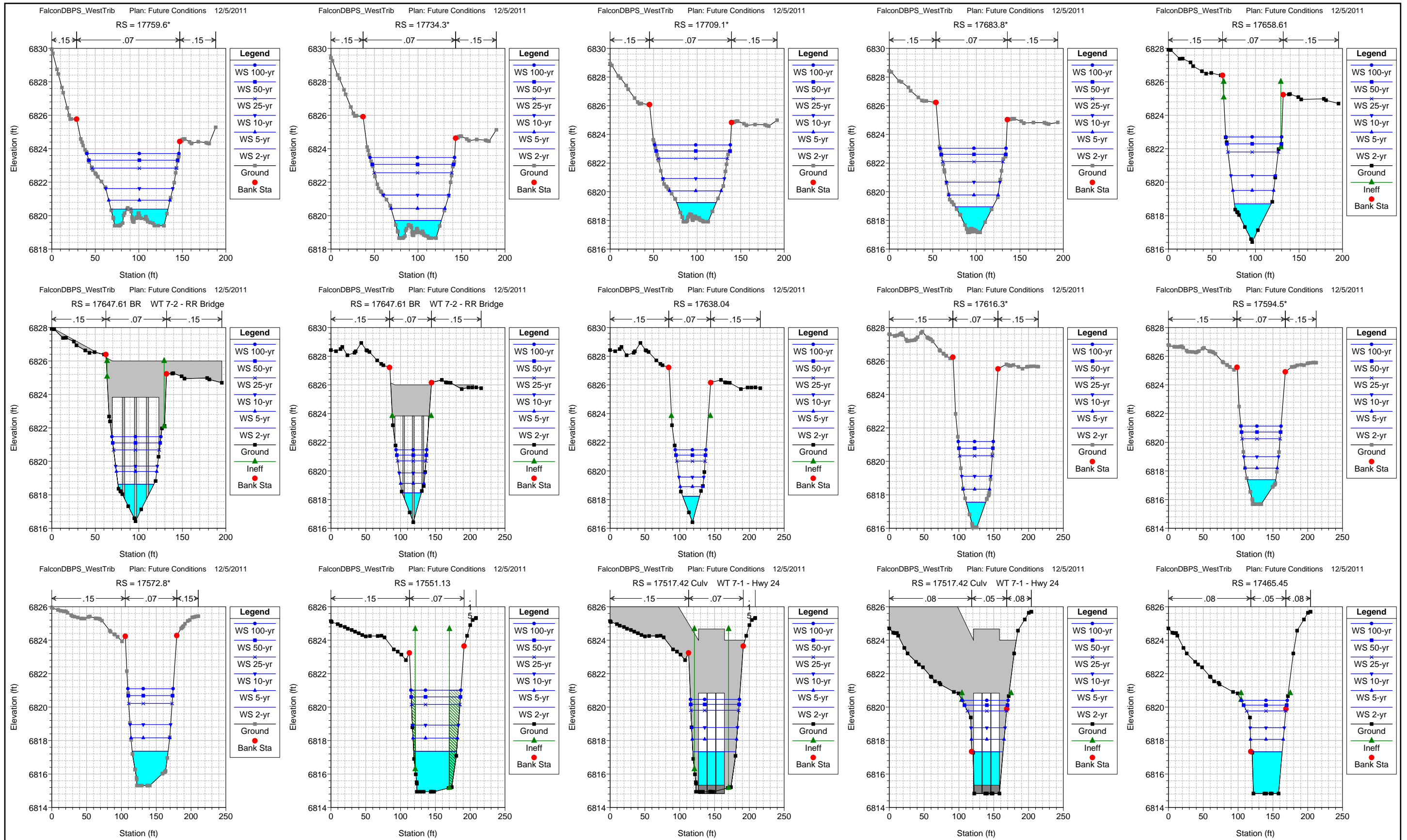


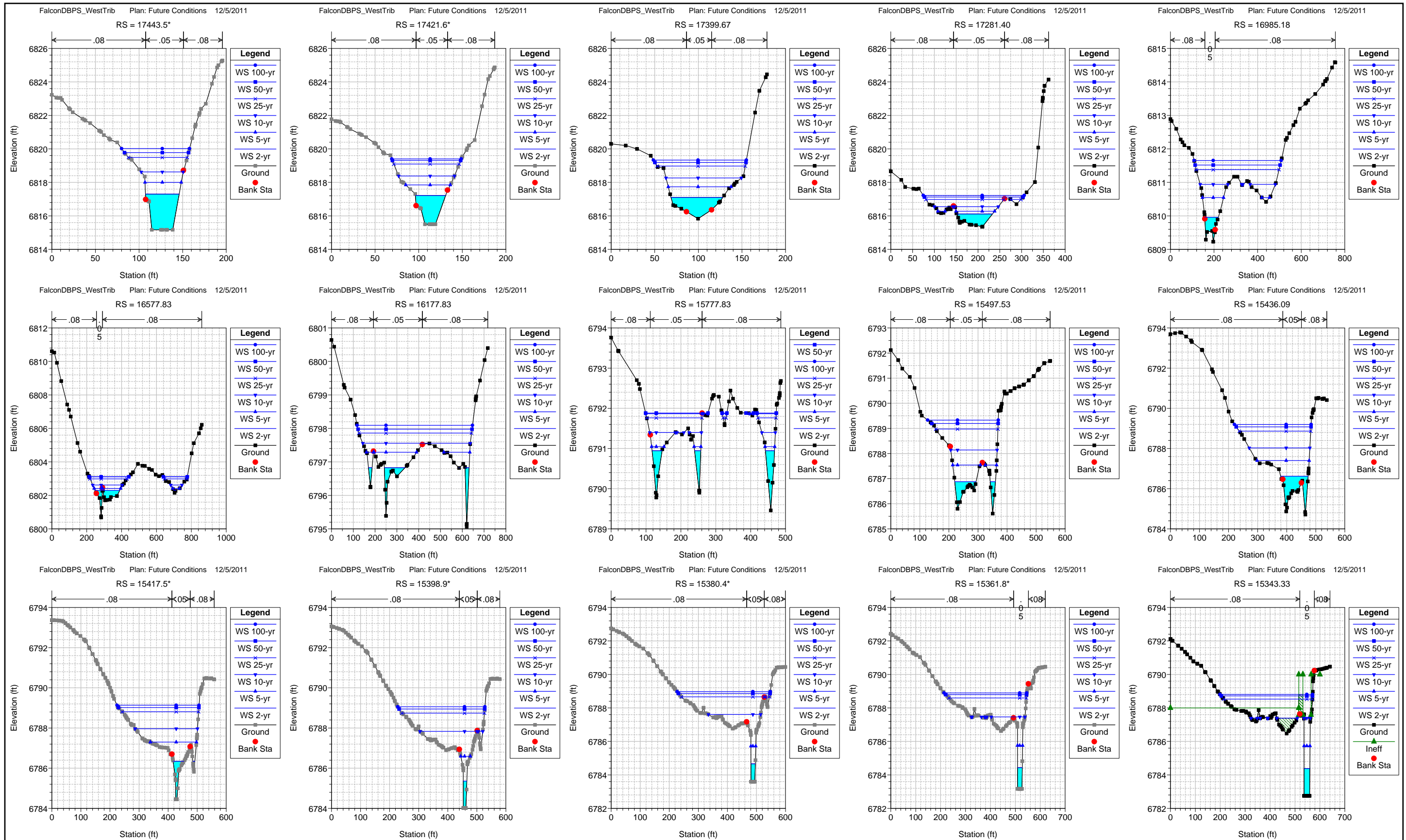


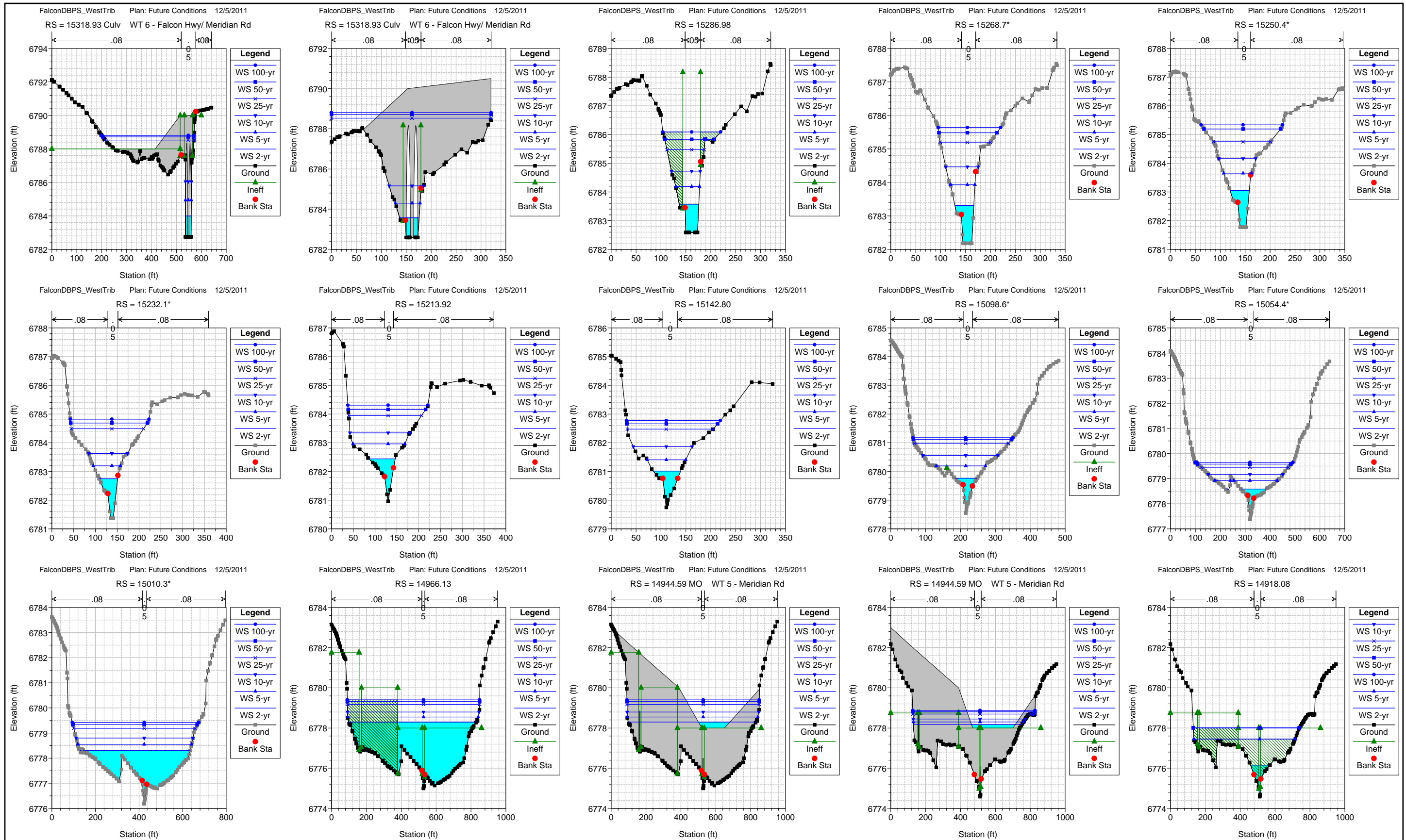


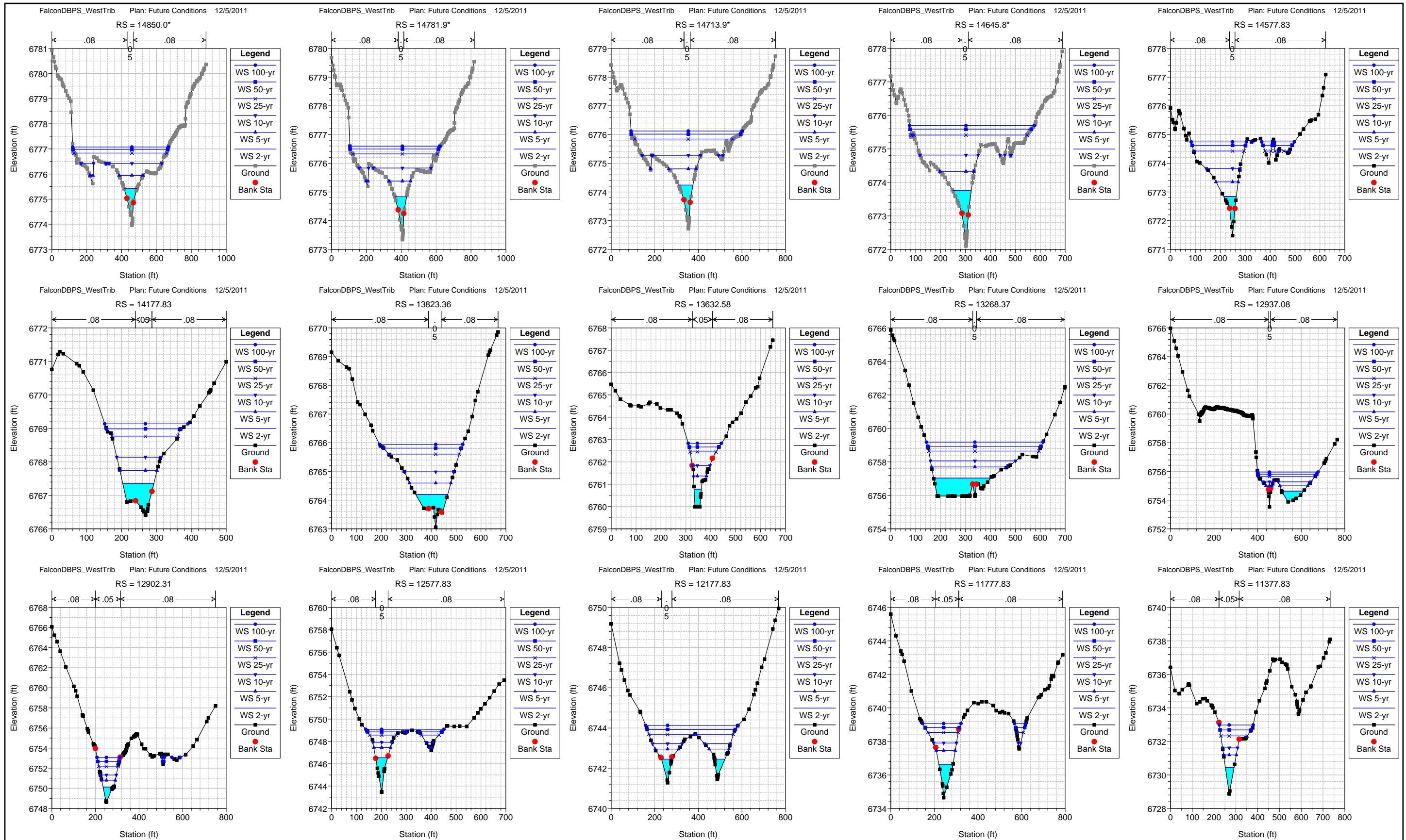


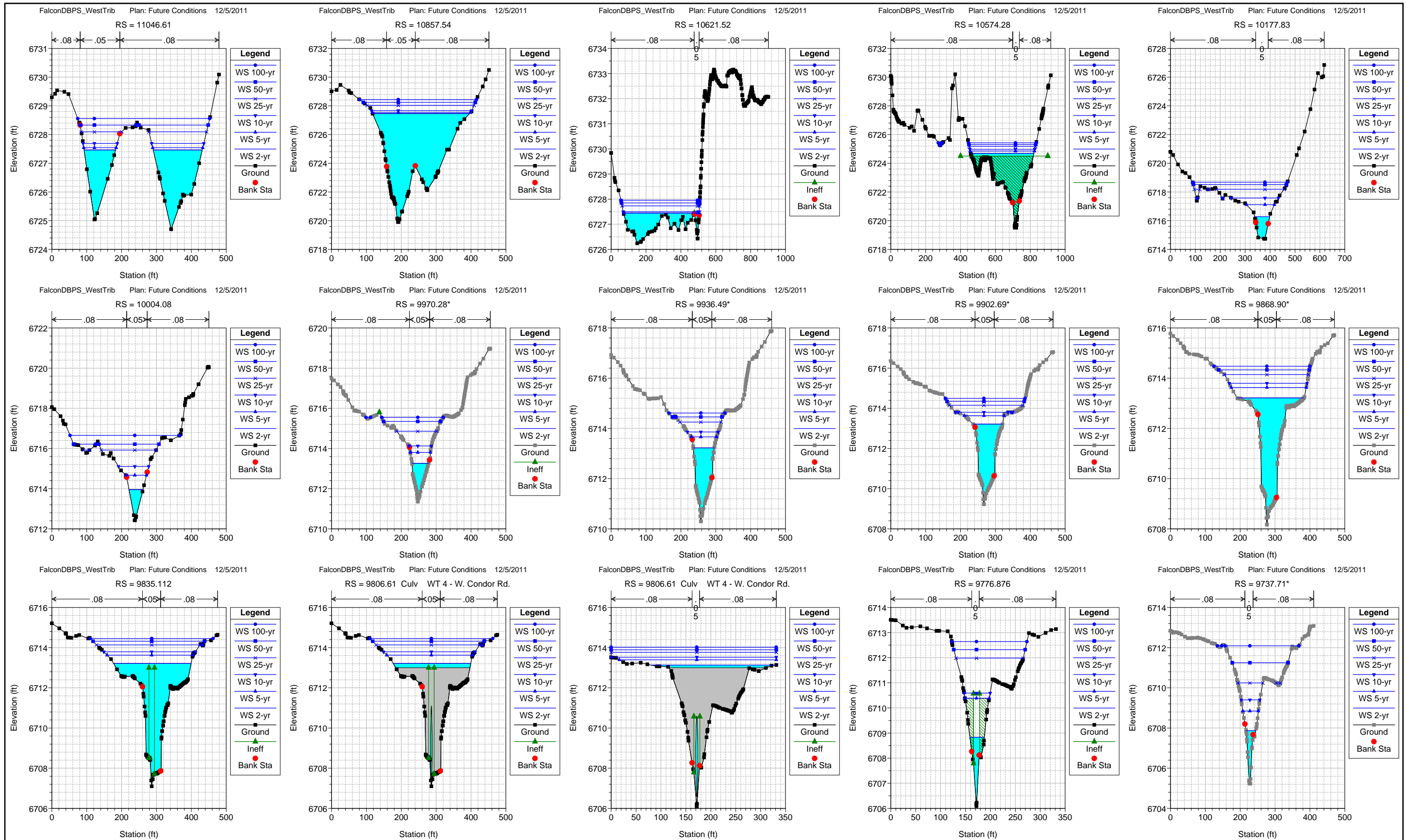


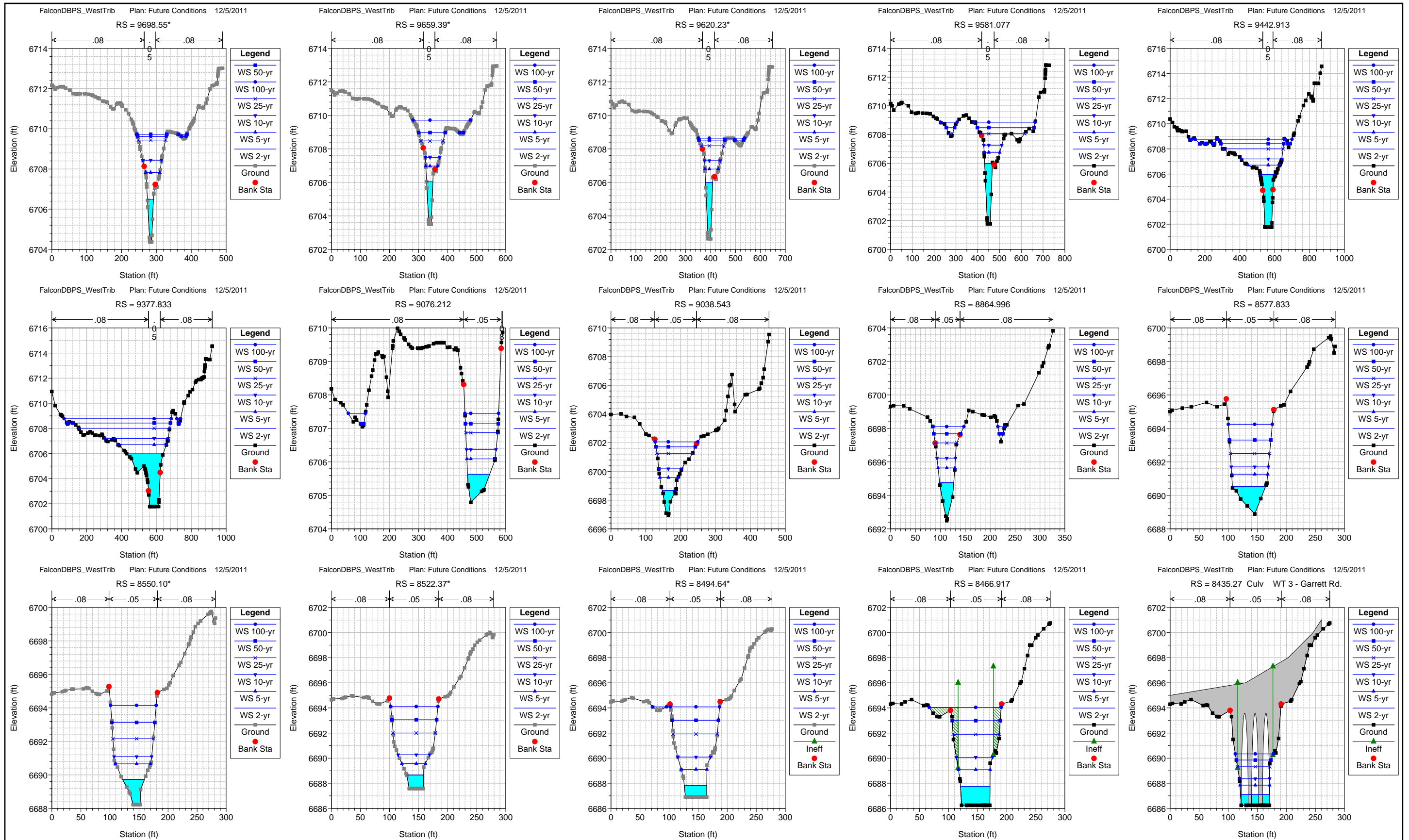


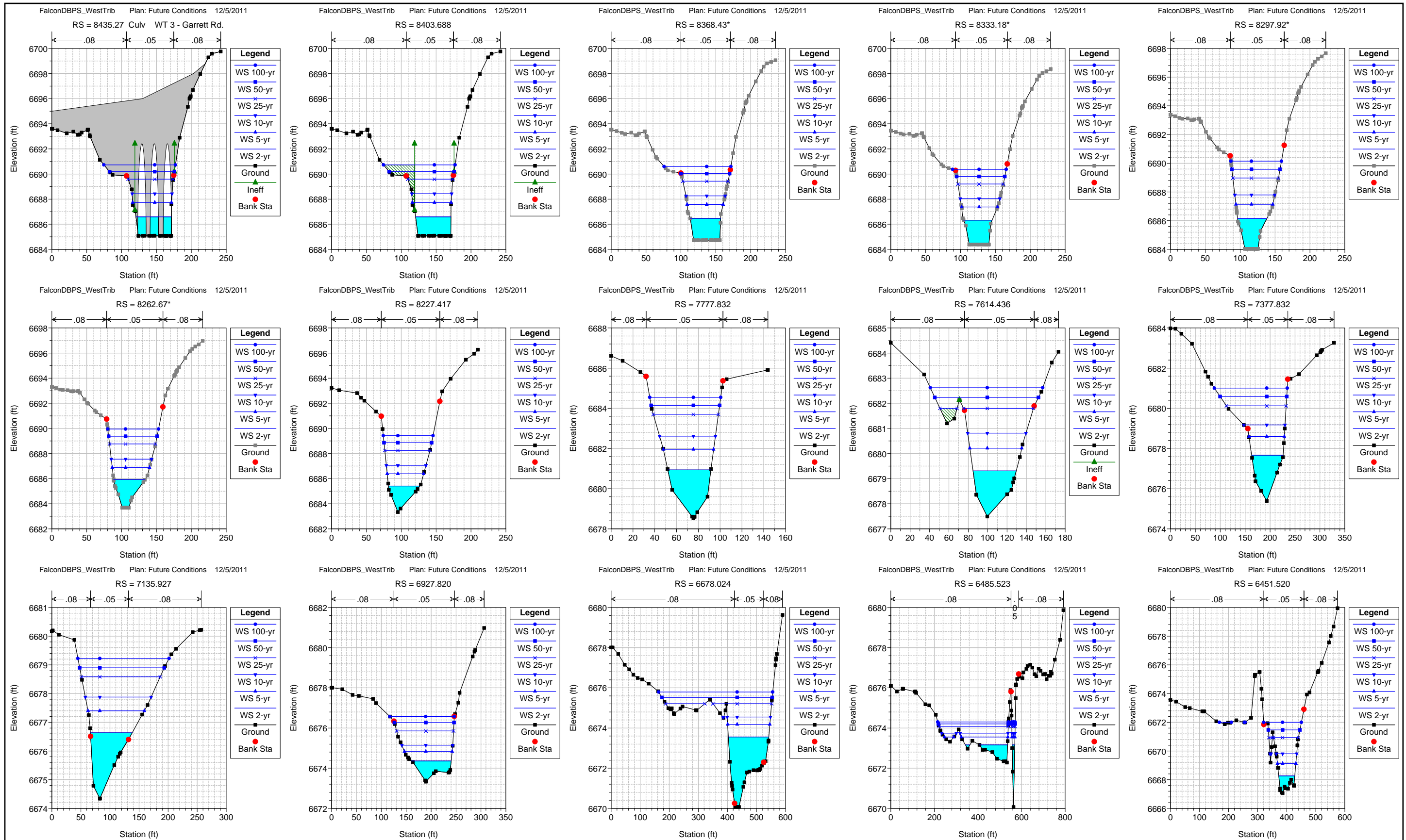


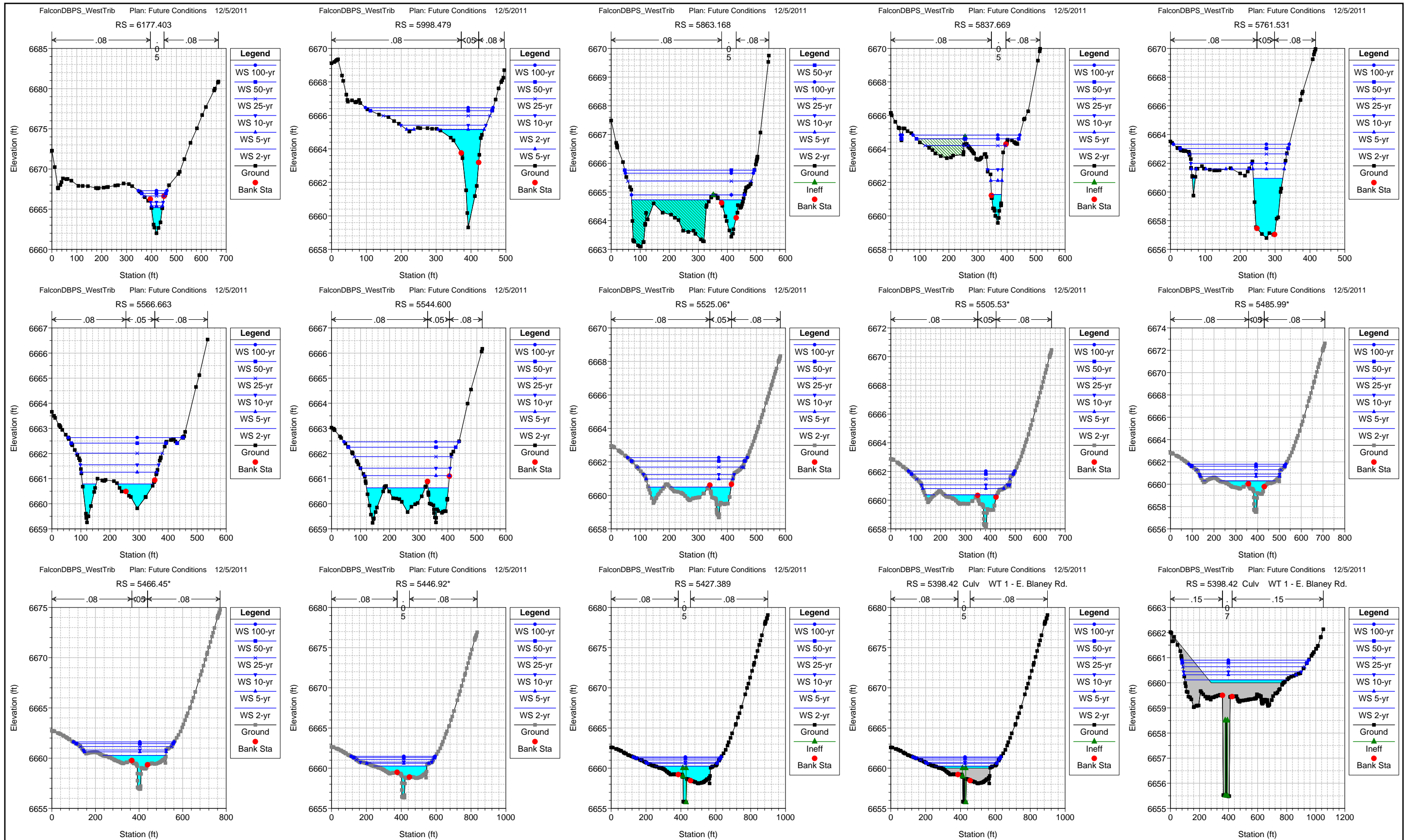


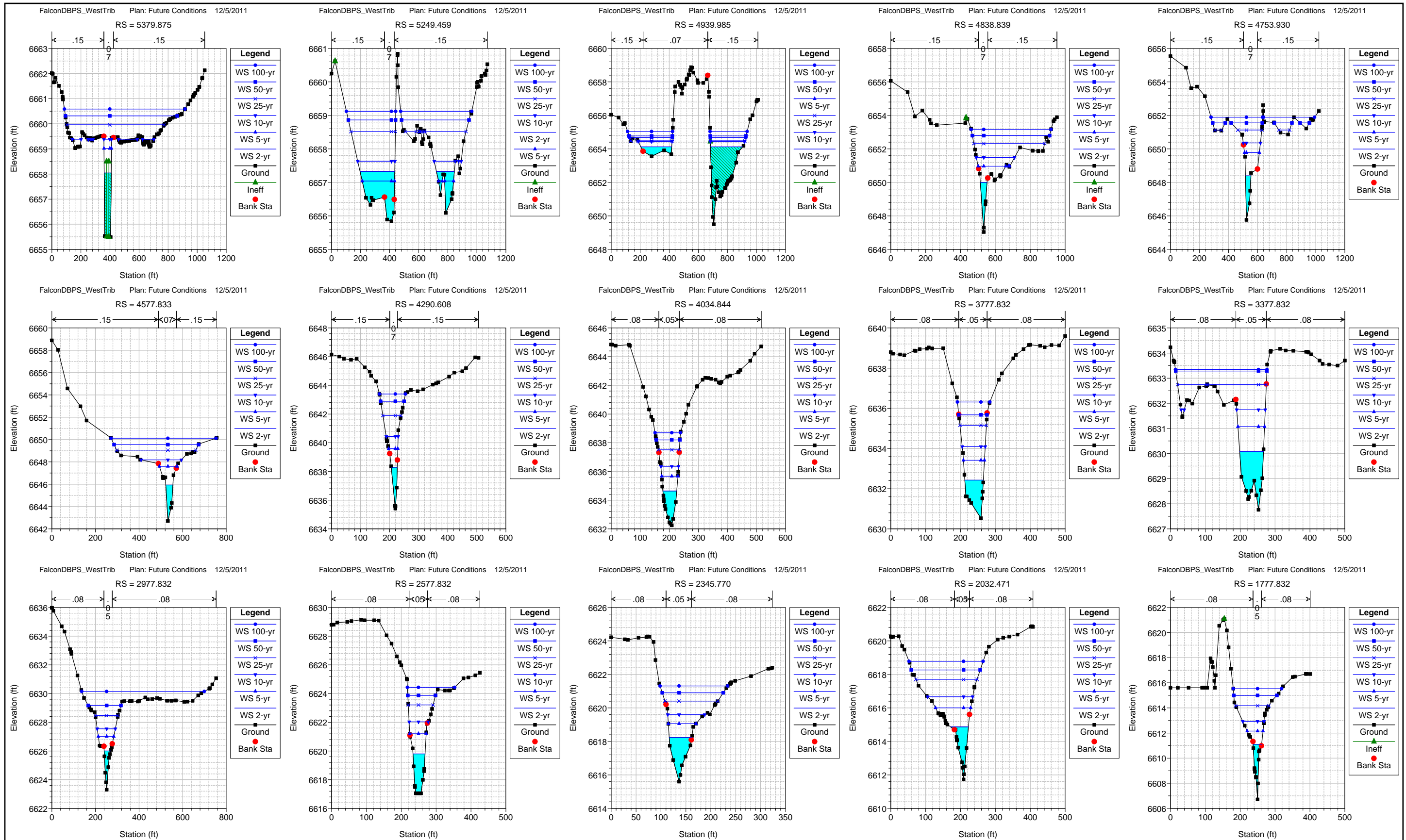


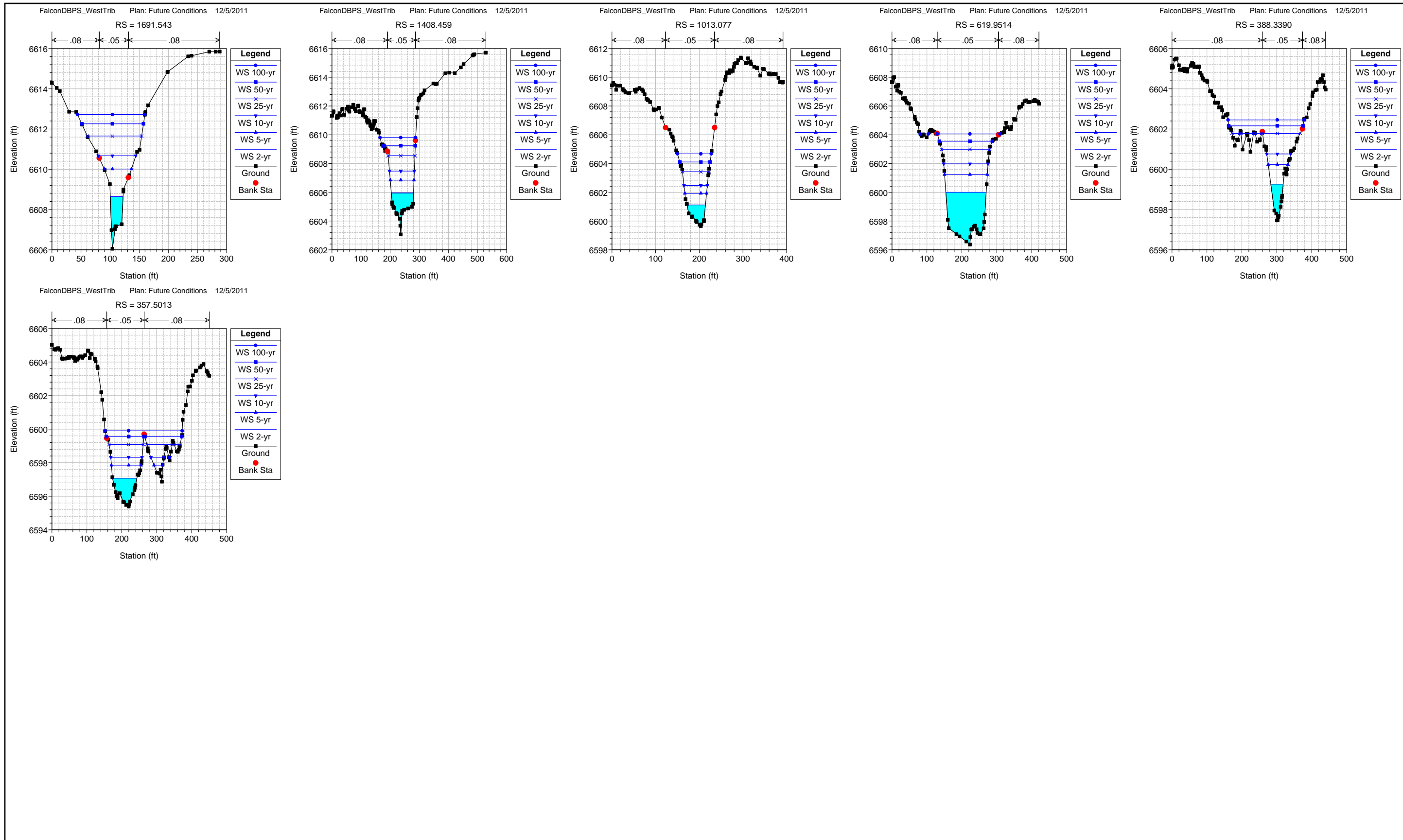








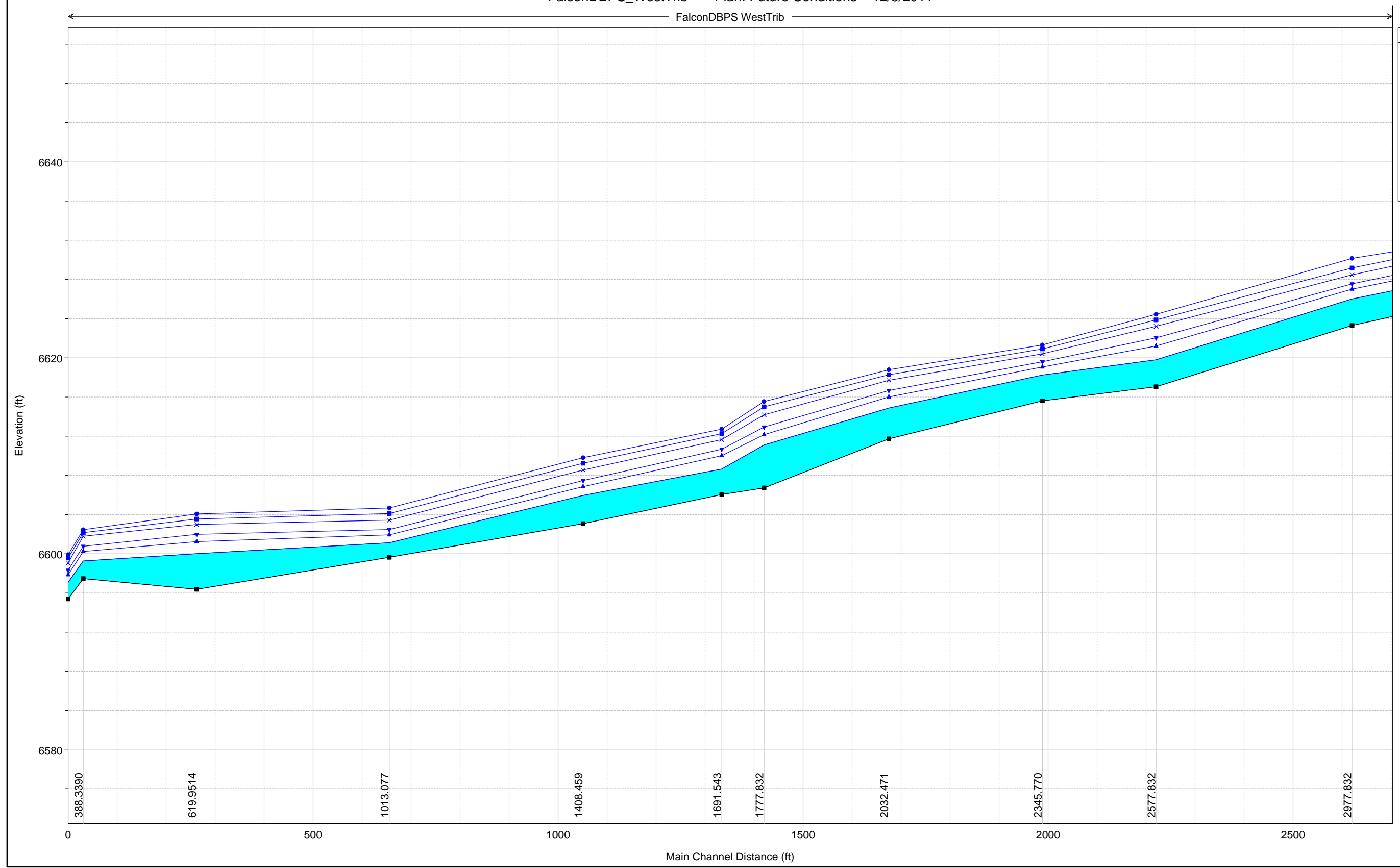




FalconDBPS WestTrib

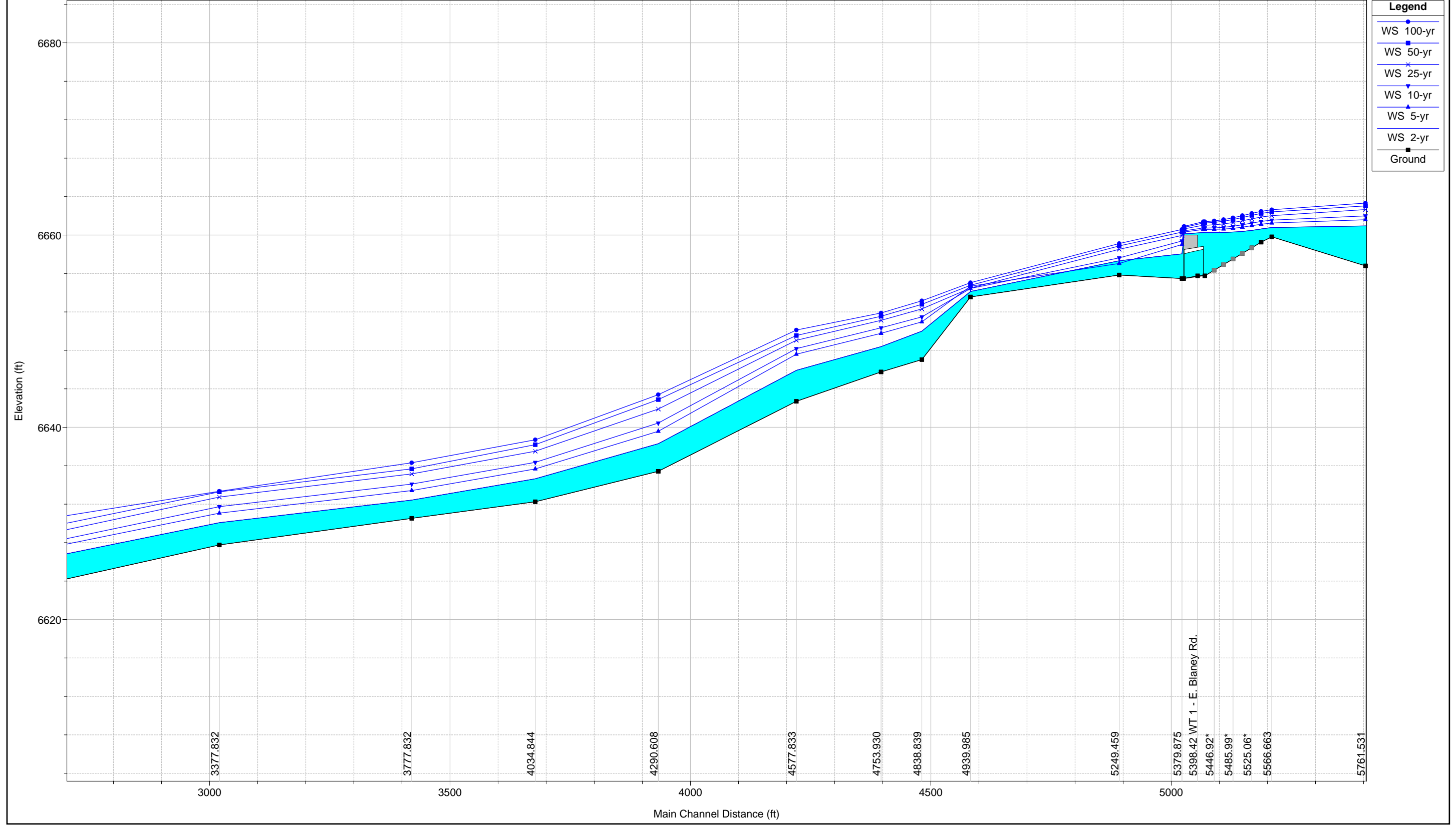
Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground



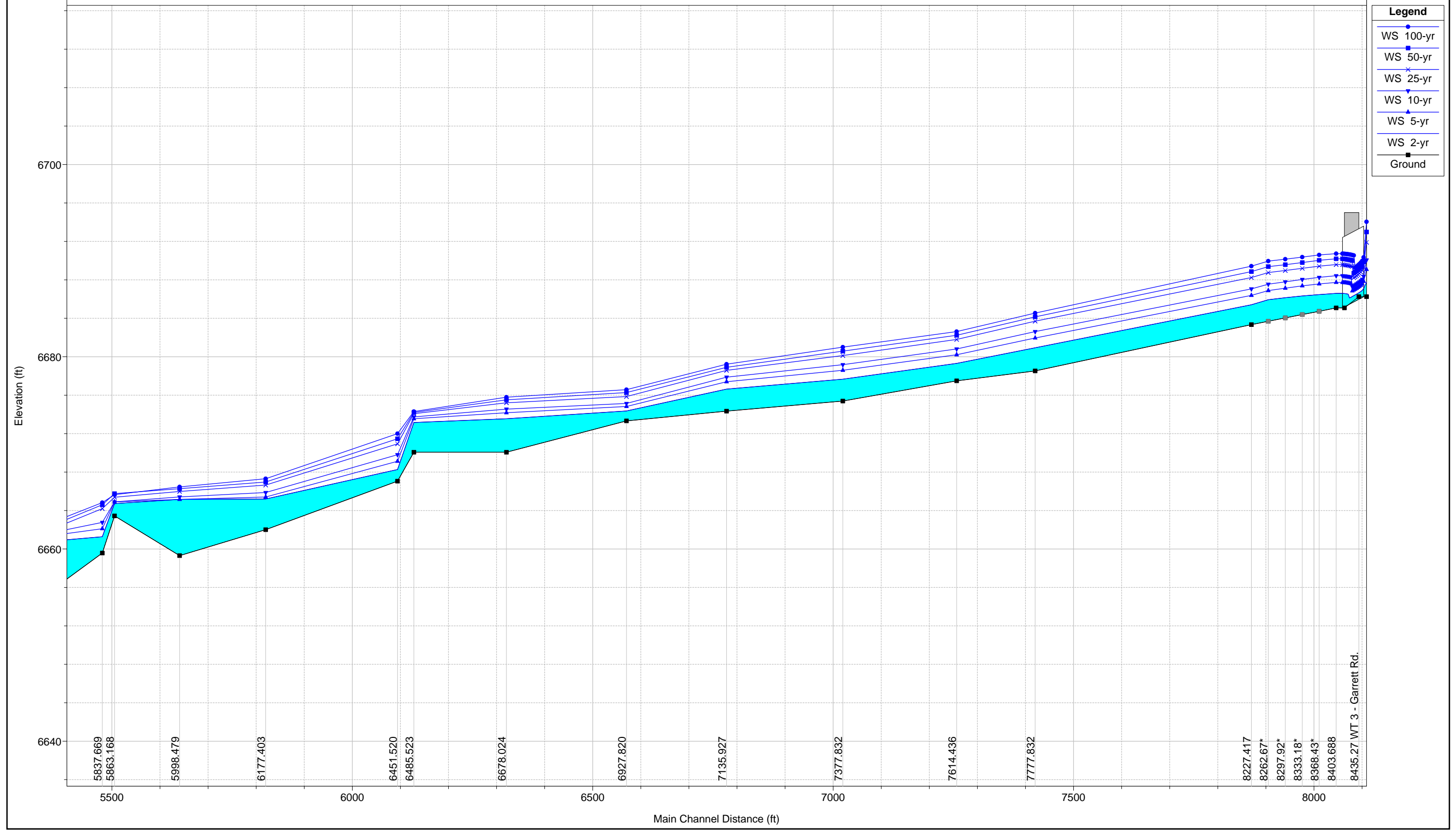
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



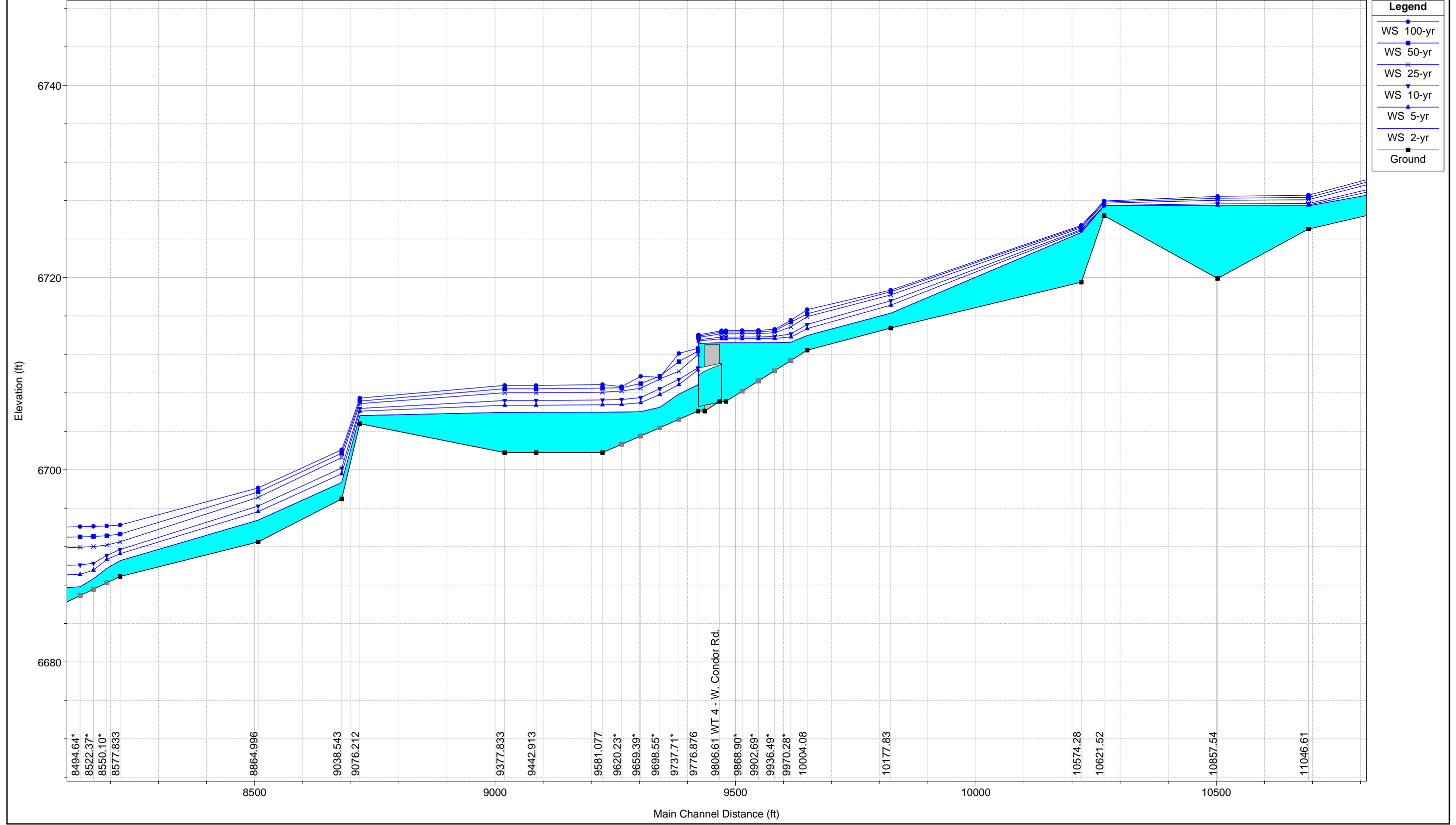
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



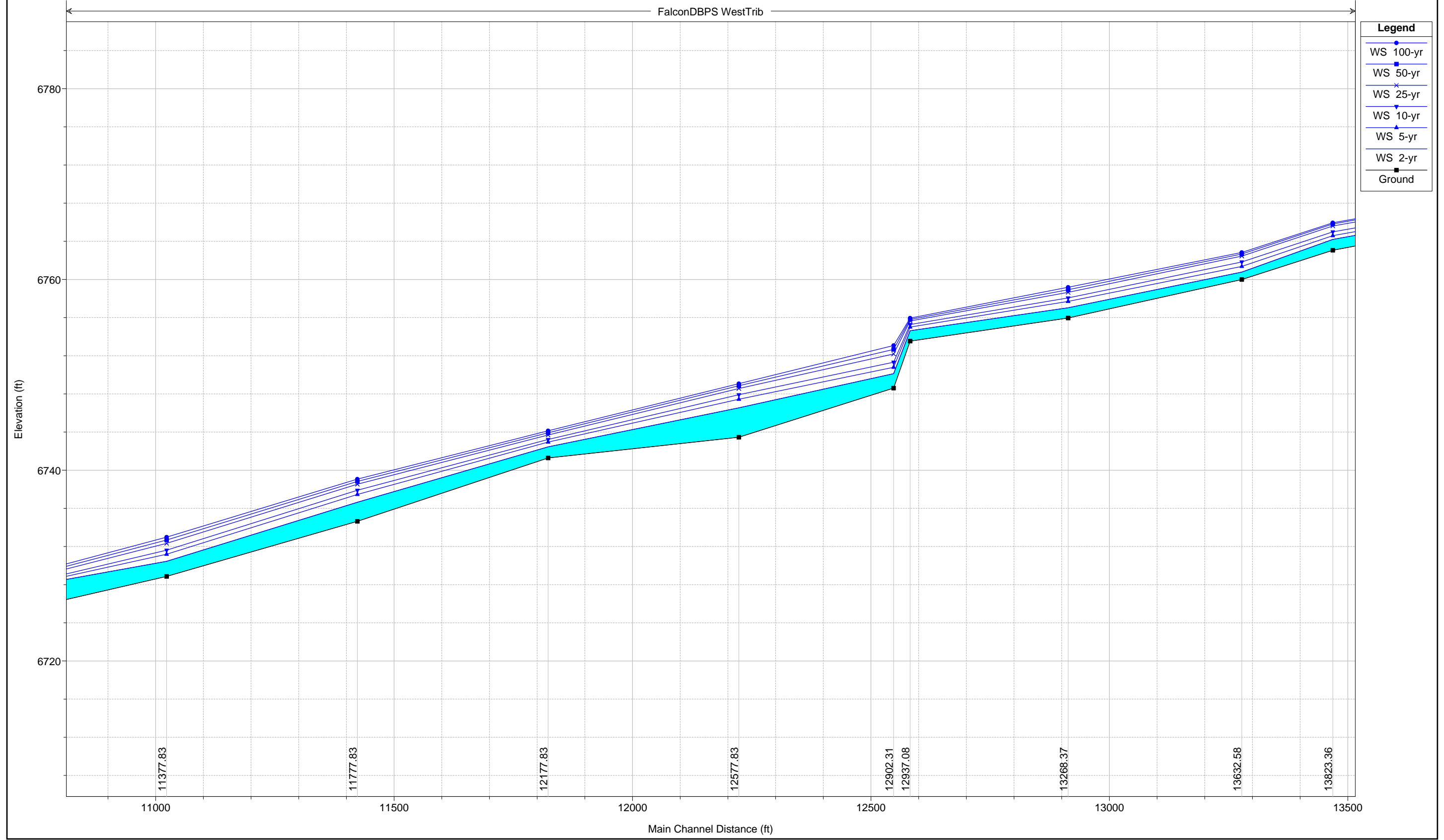
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



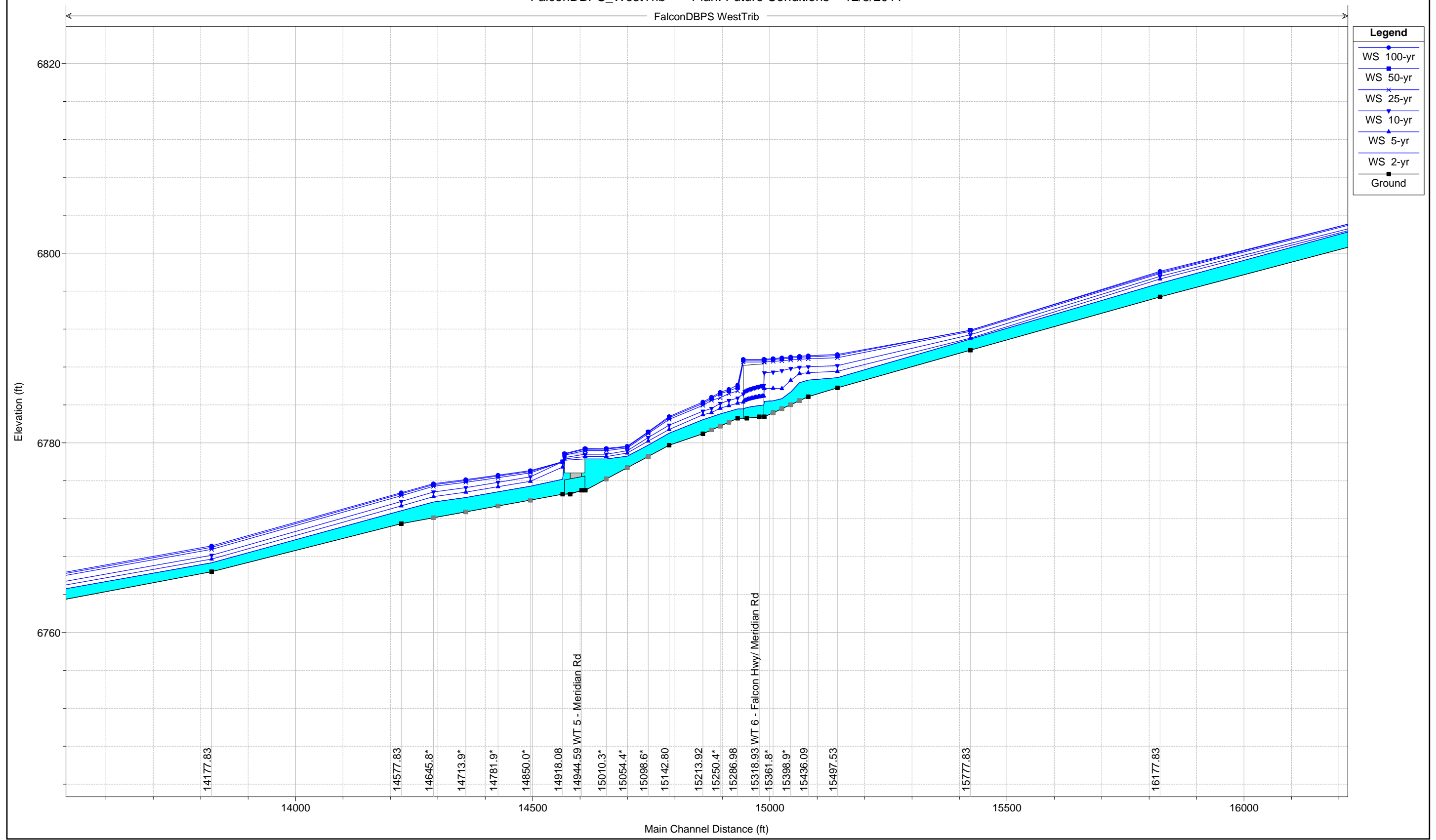
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



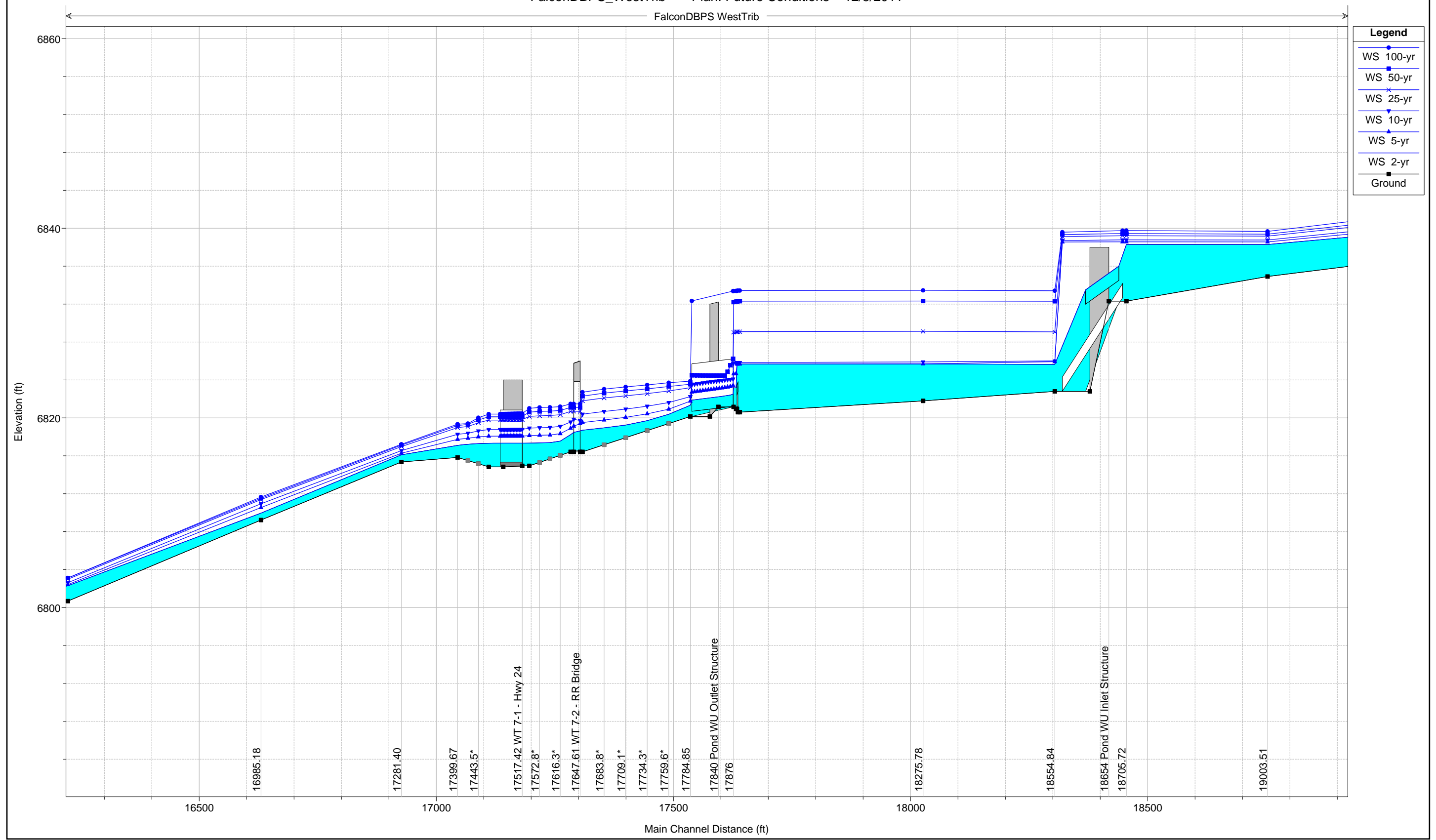
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



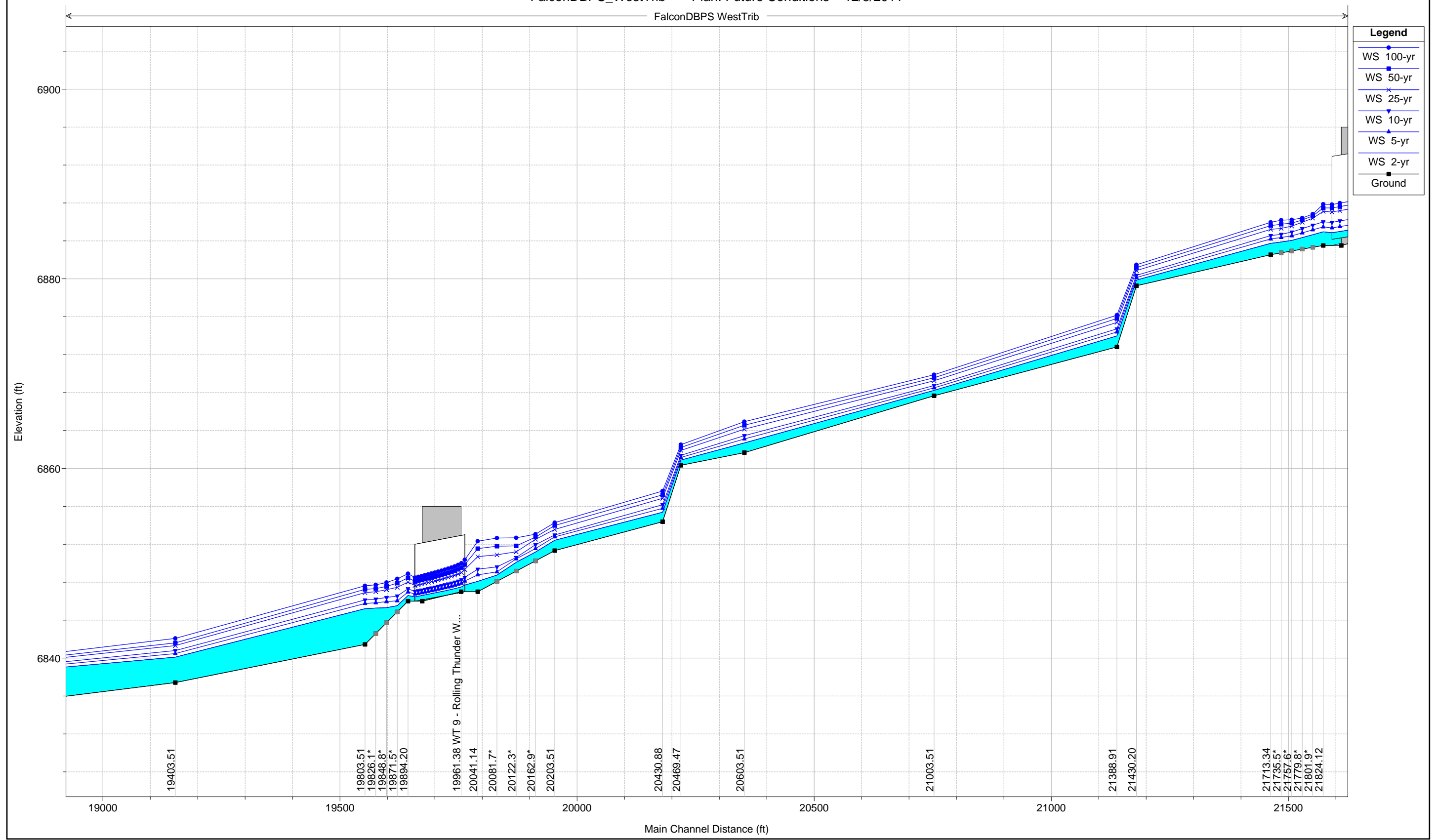
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



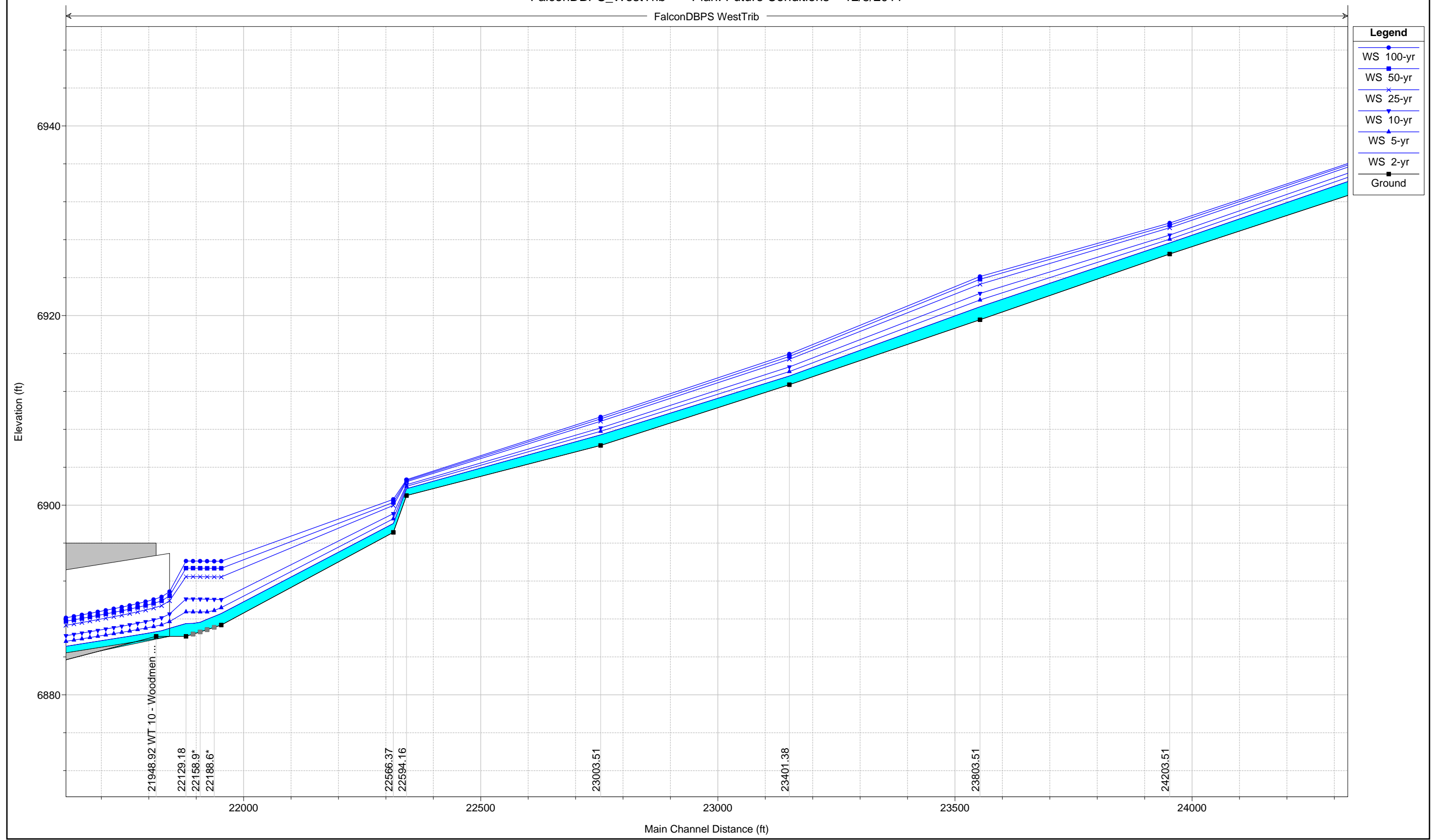
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



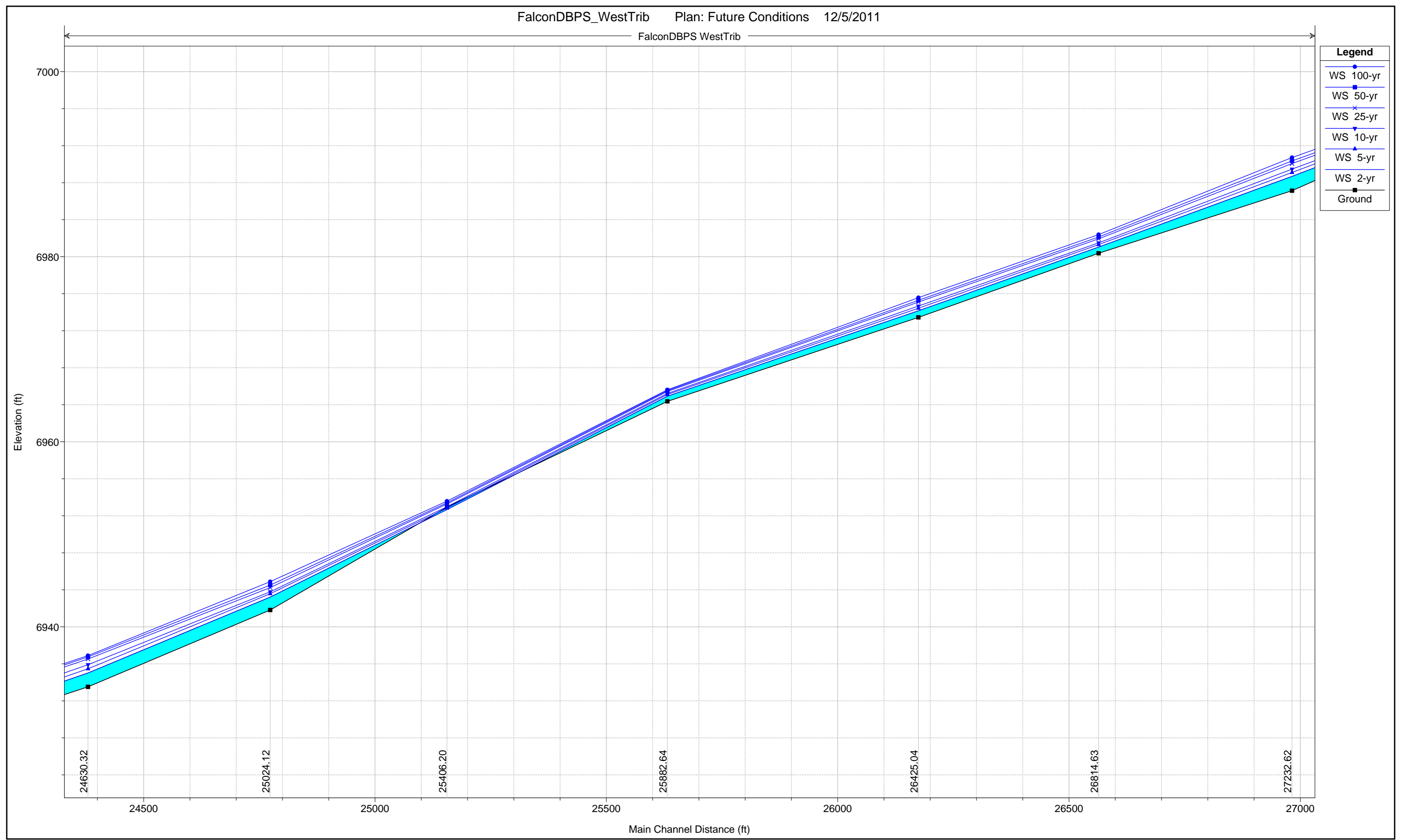
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



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

FalconDBPS WestTrib

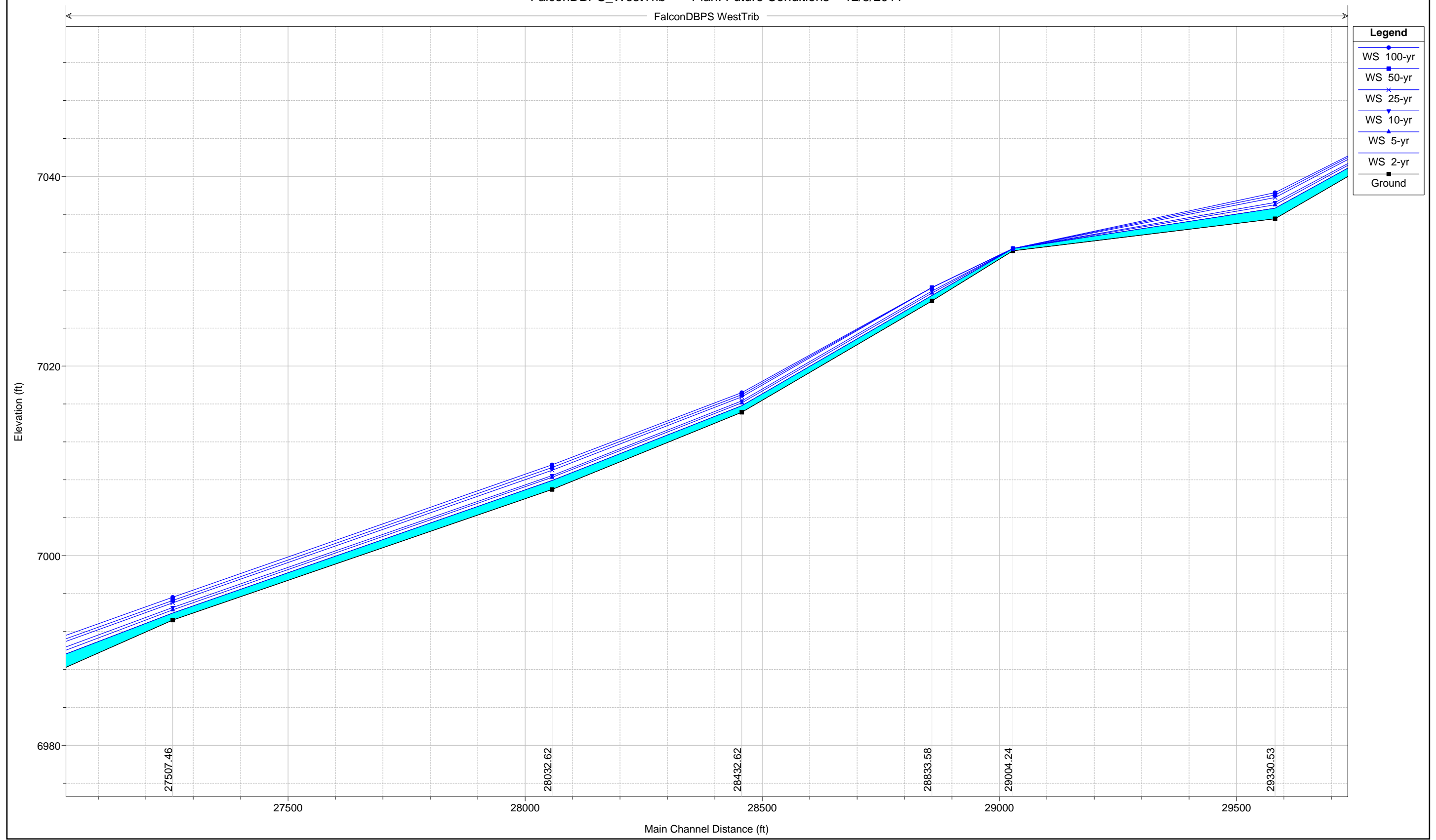


Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

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

FalconDBPS WestTrib

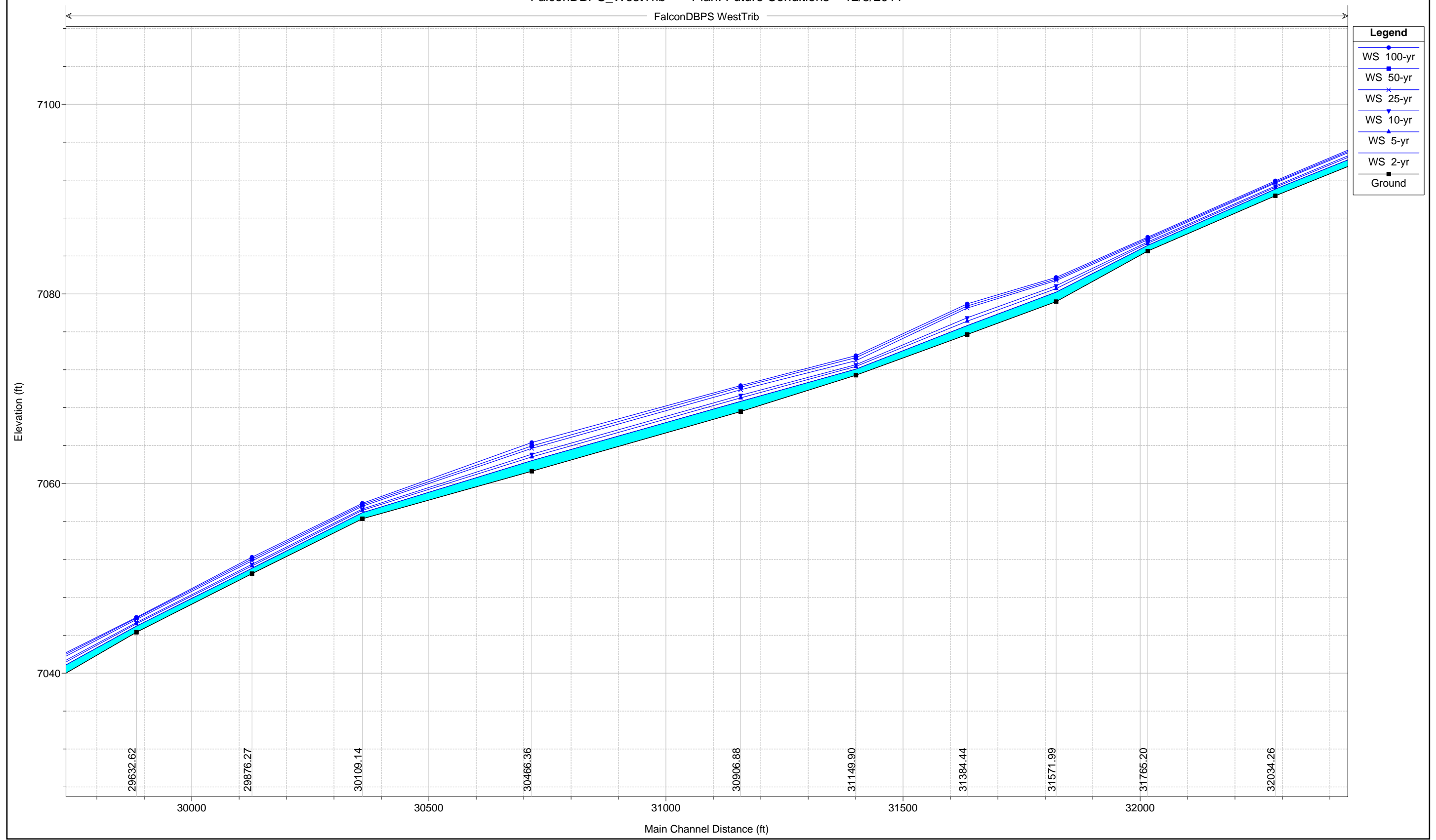


Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

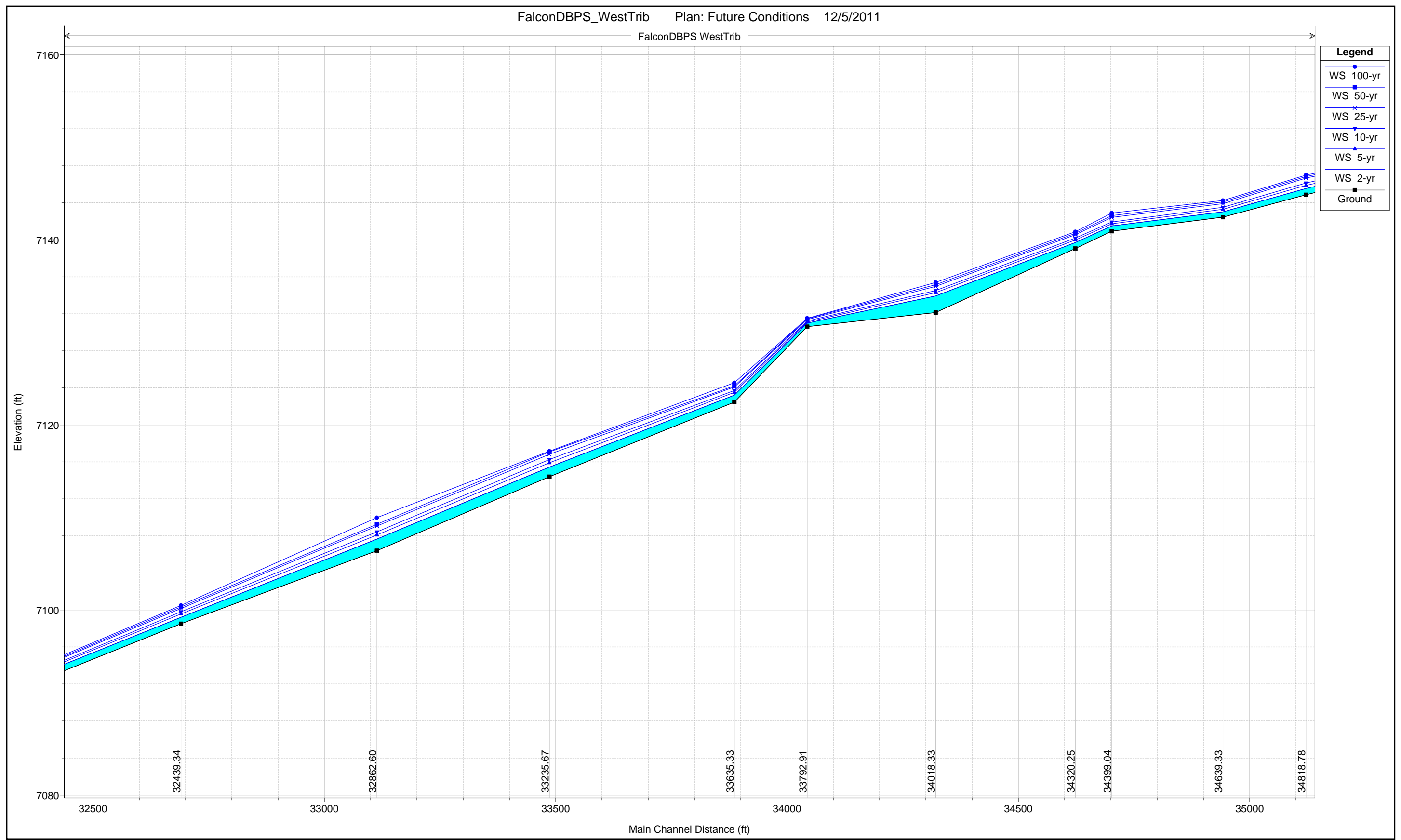
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



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

FalconDBPS WestTrib

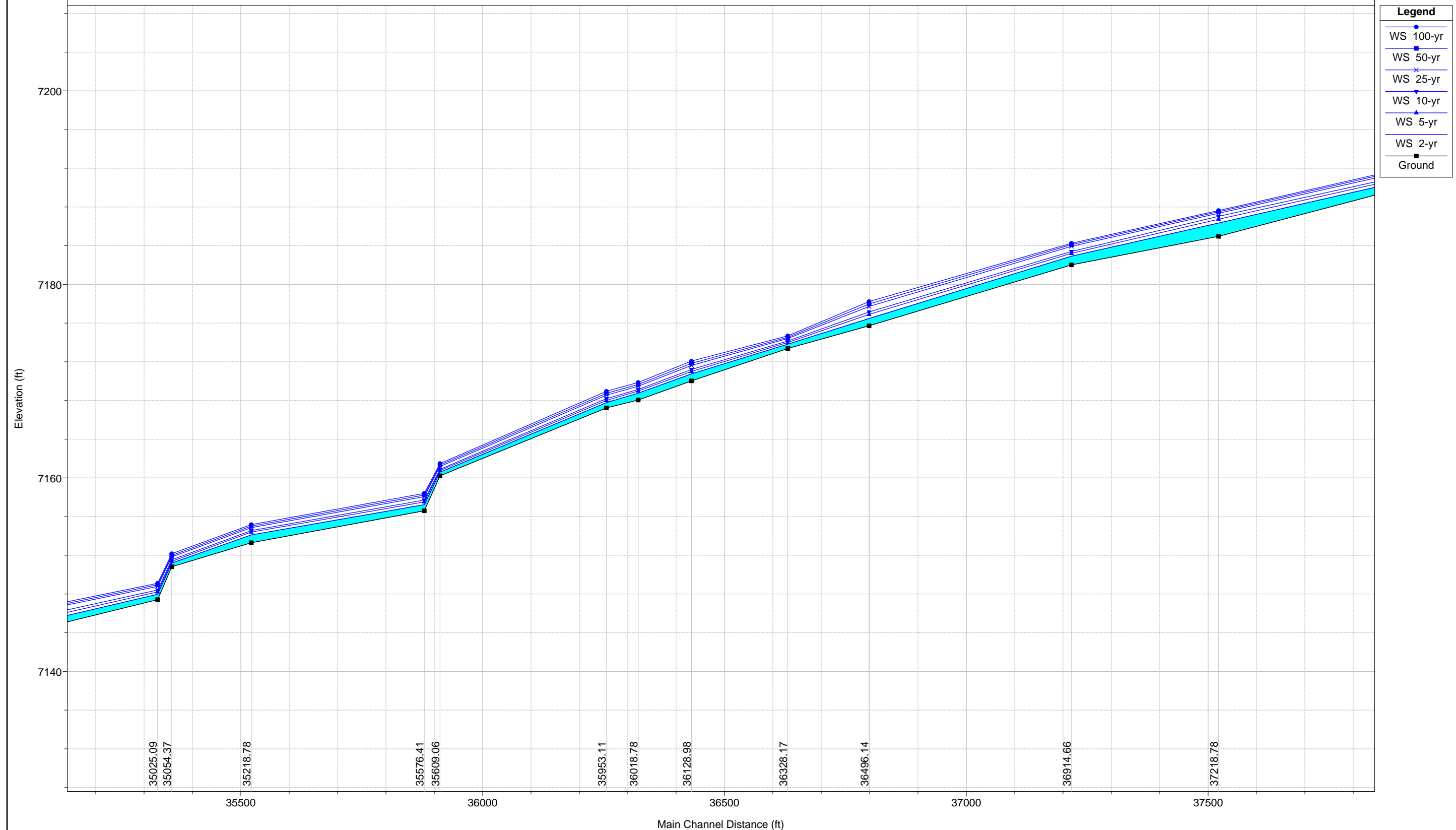


Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

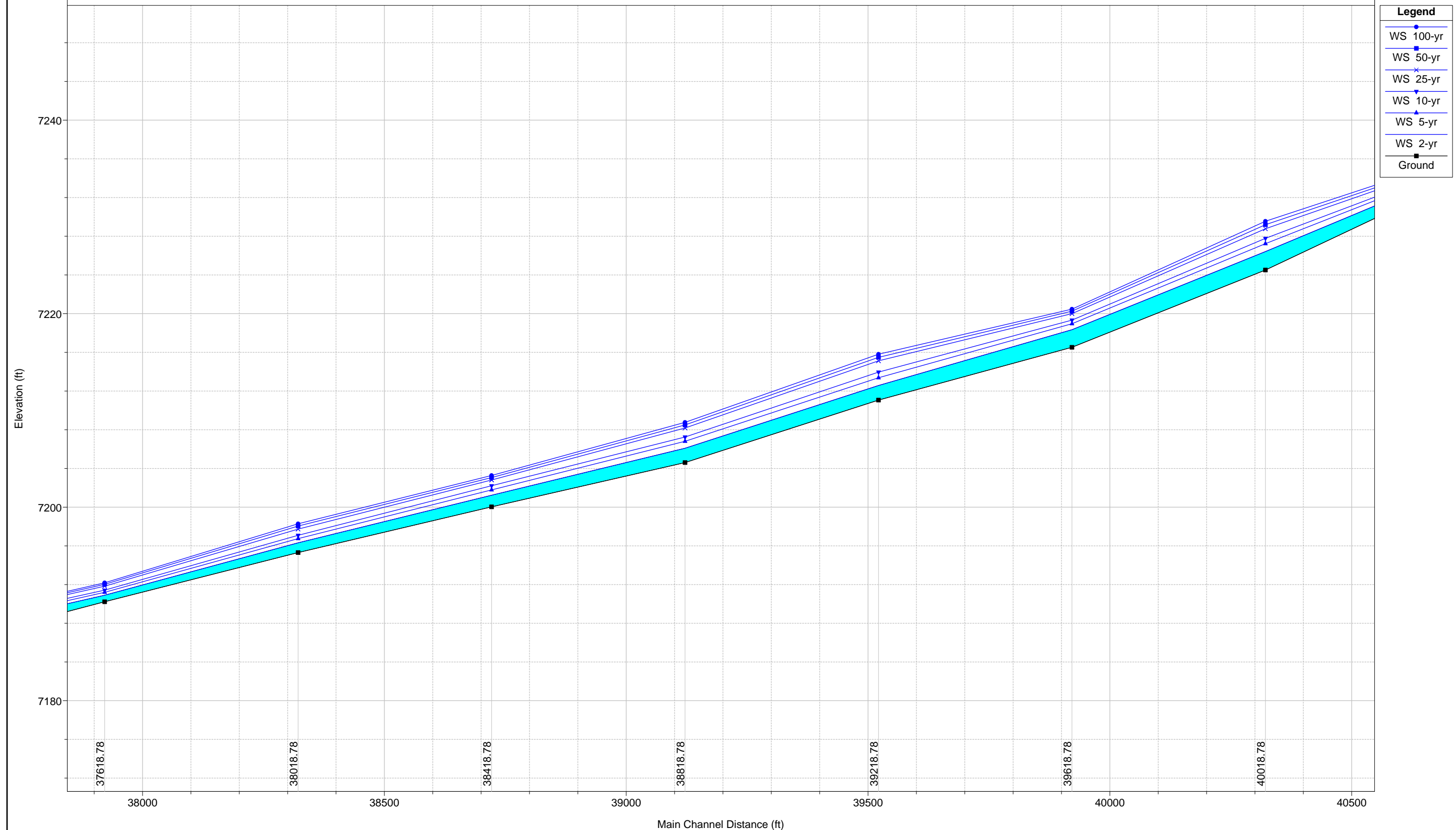
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



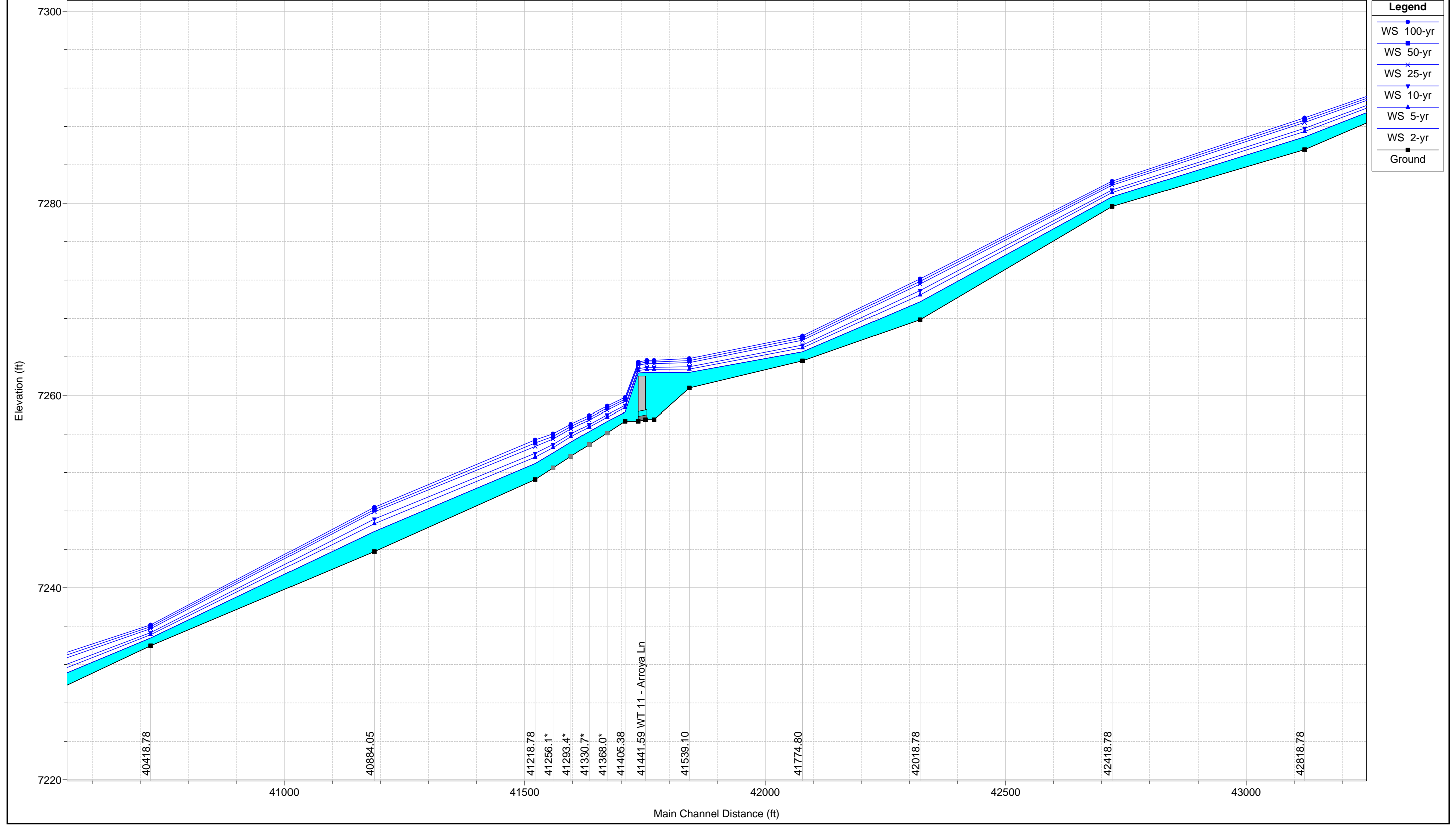
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconDBPS WestTrib



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

FalconDBPS WestTrib

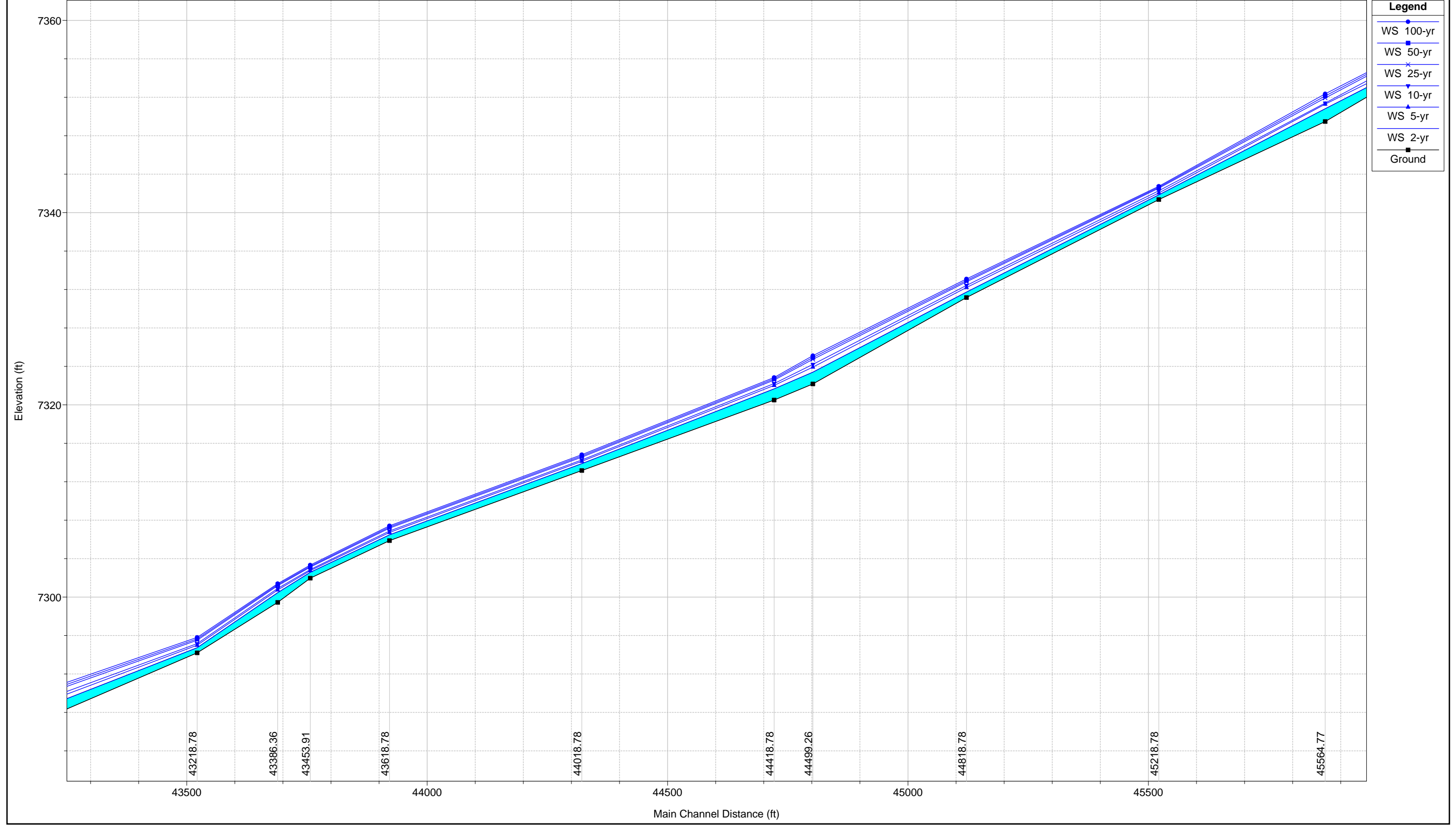


Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

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

FalconDBPS WestTrib

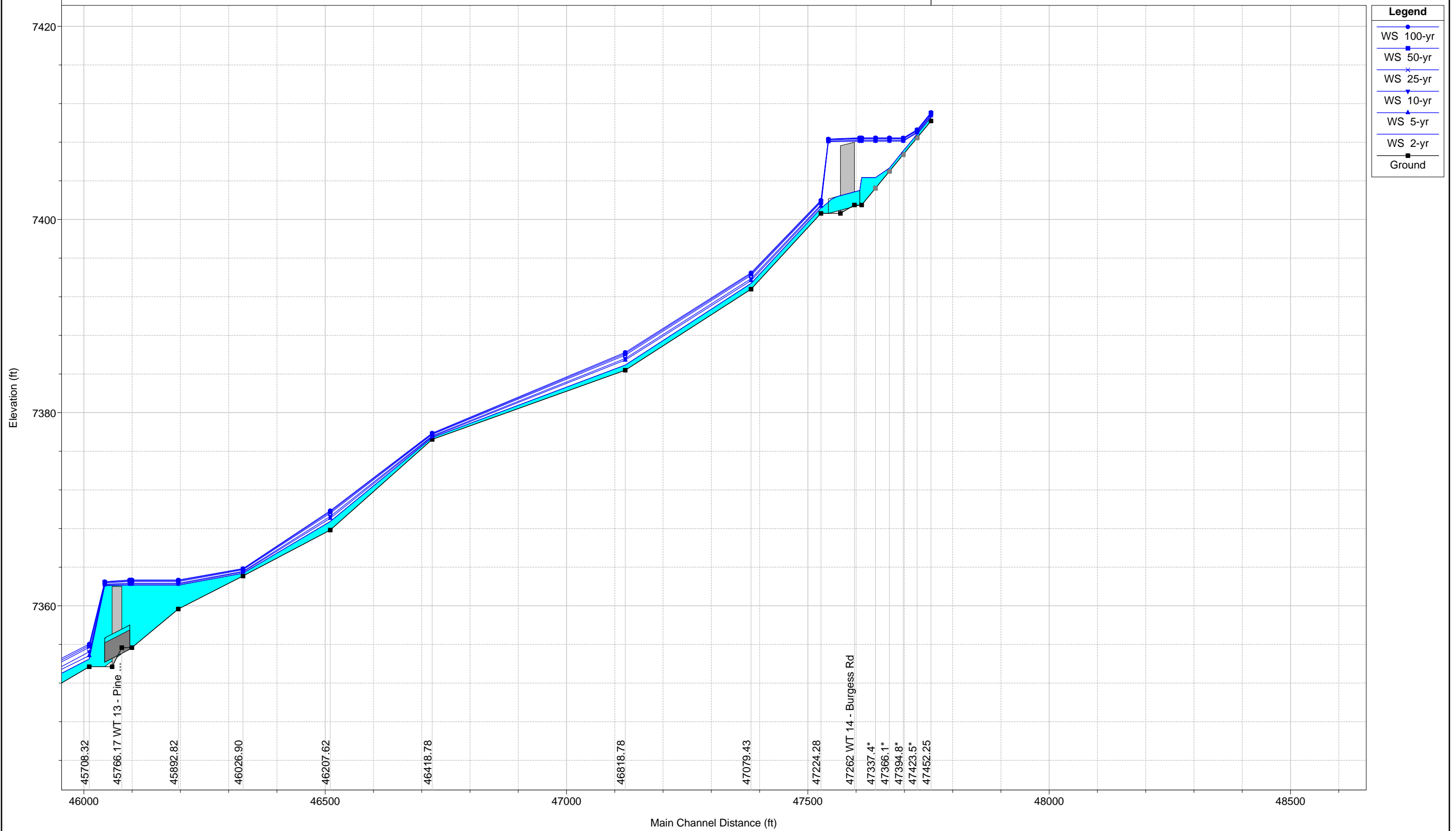


Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

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

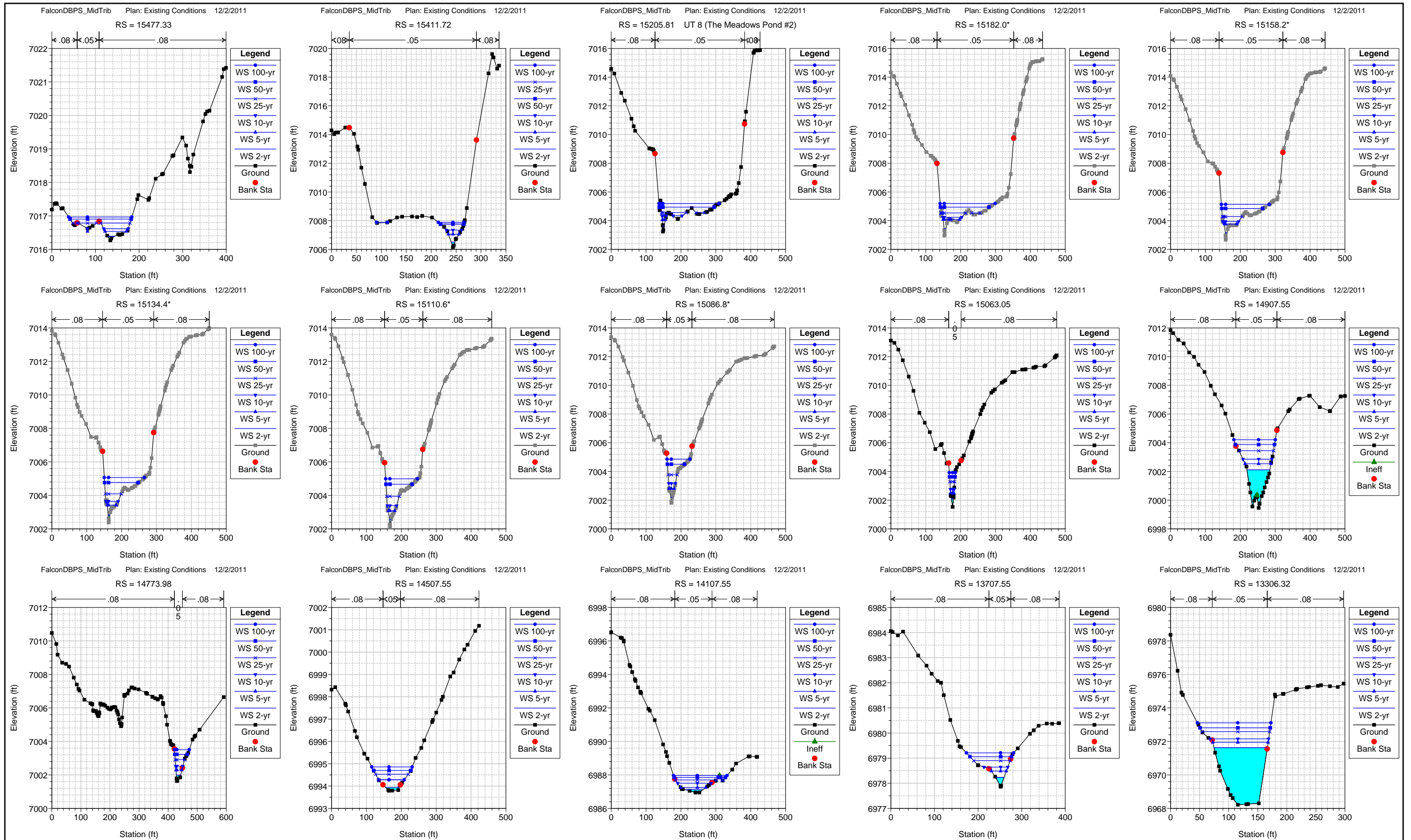
FalconDBPS WestTrib

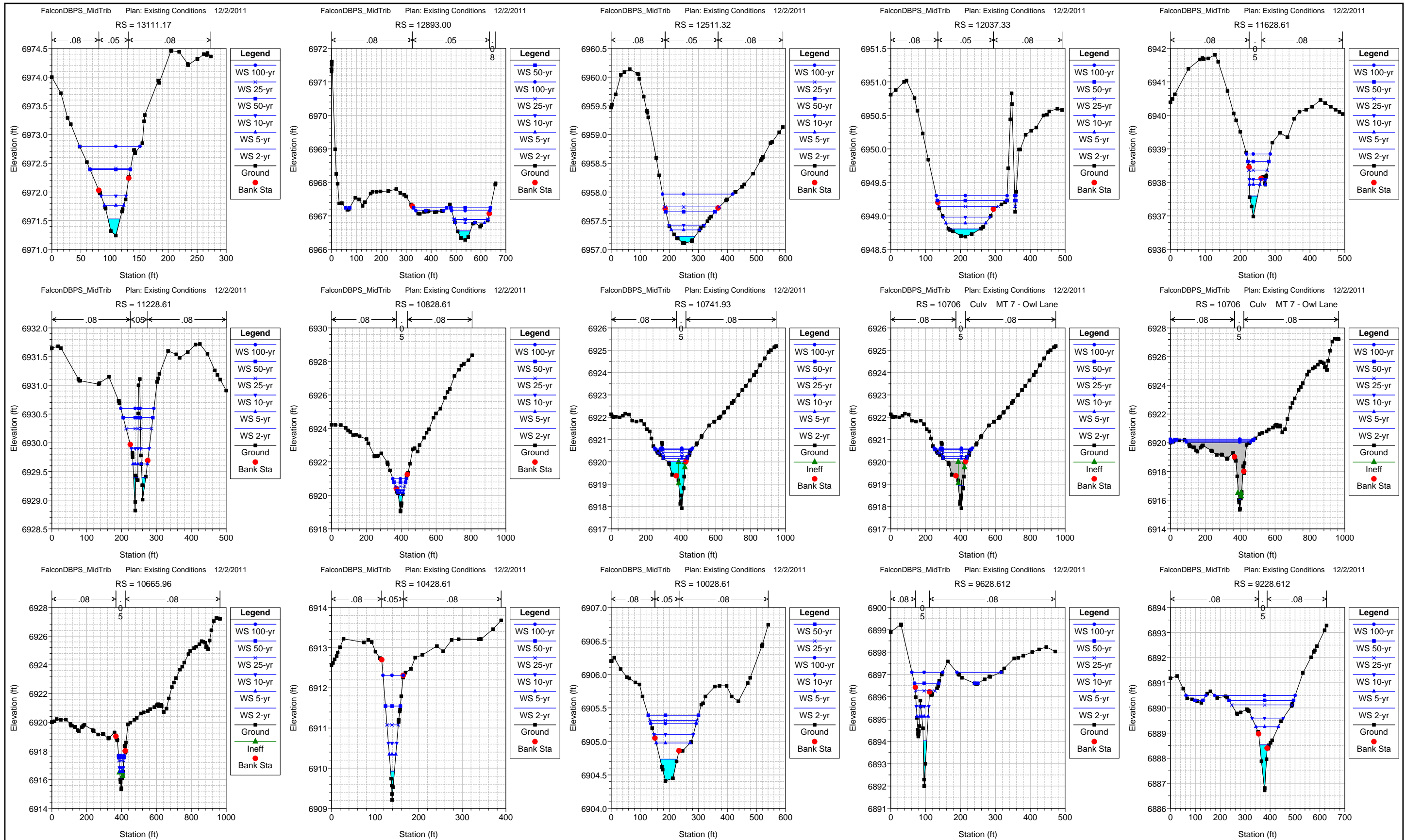


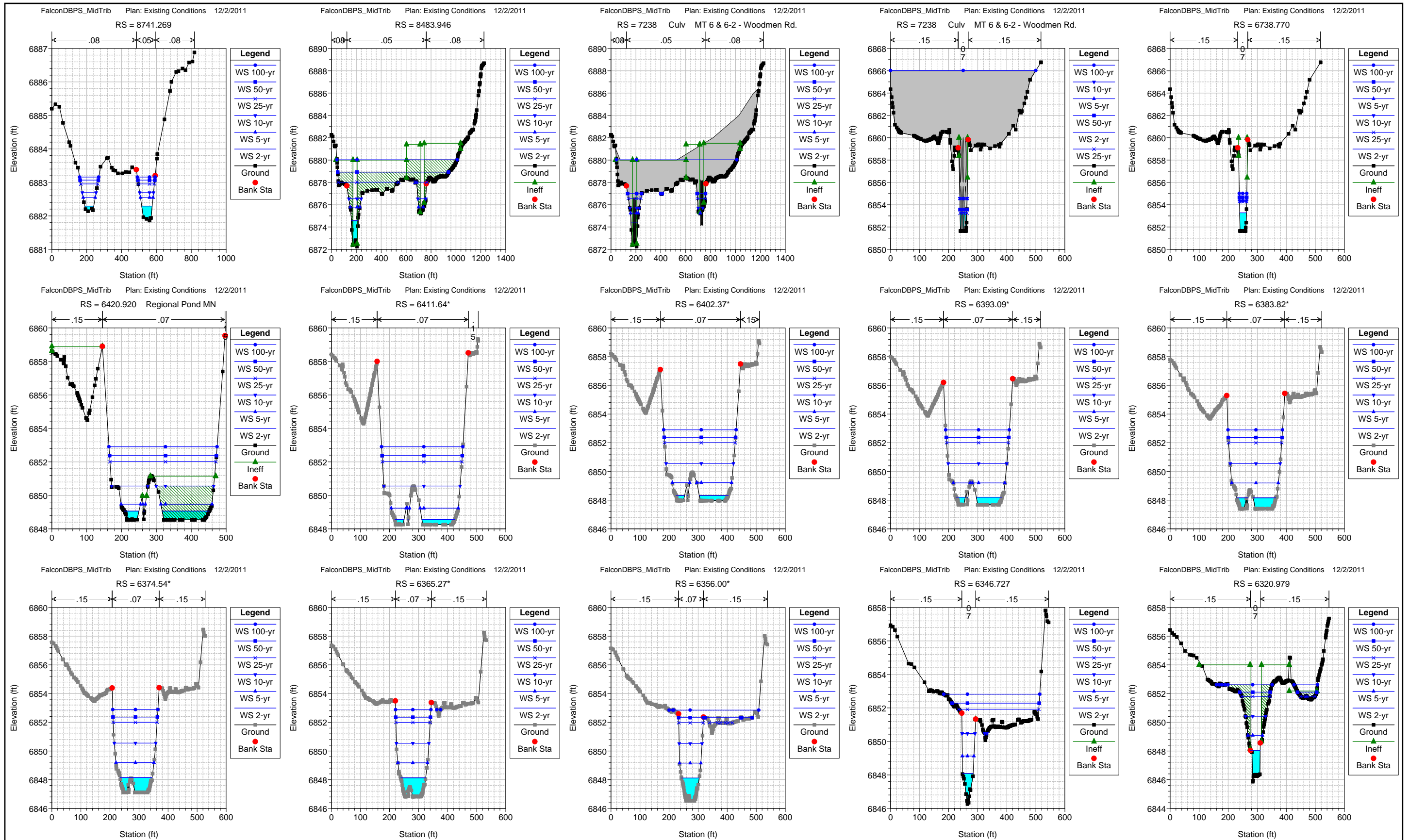
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

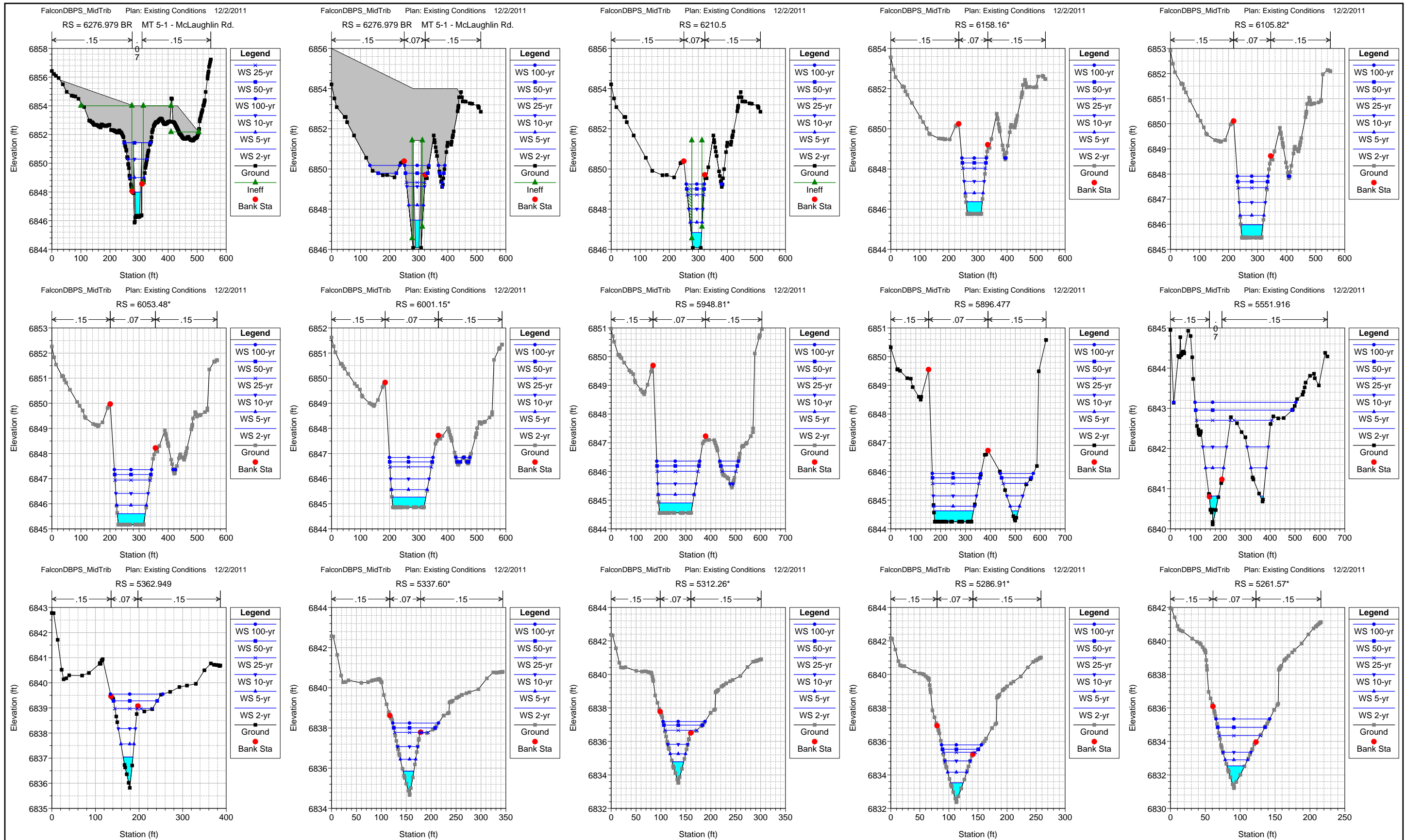
Middle Tributary – Existing Conditions

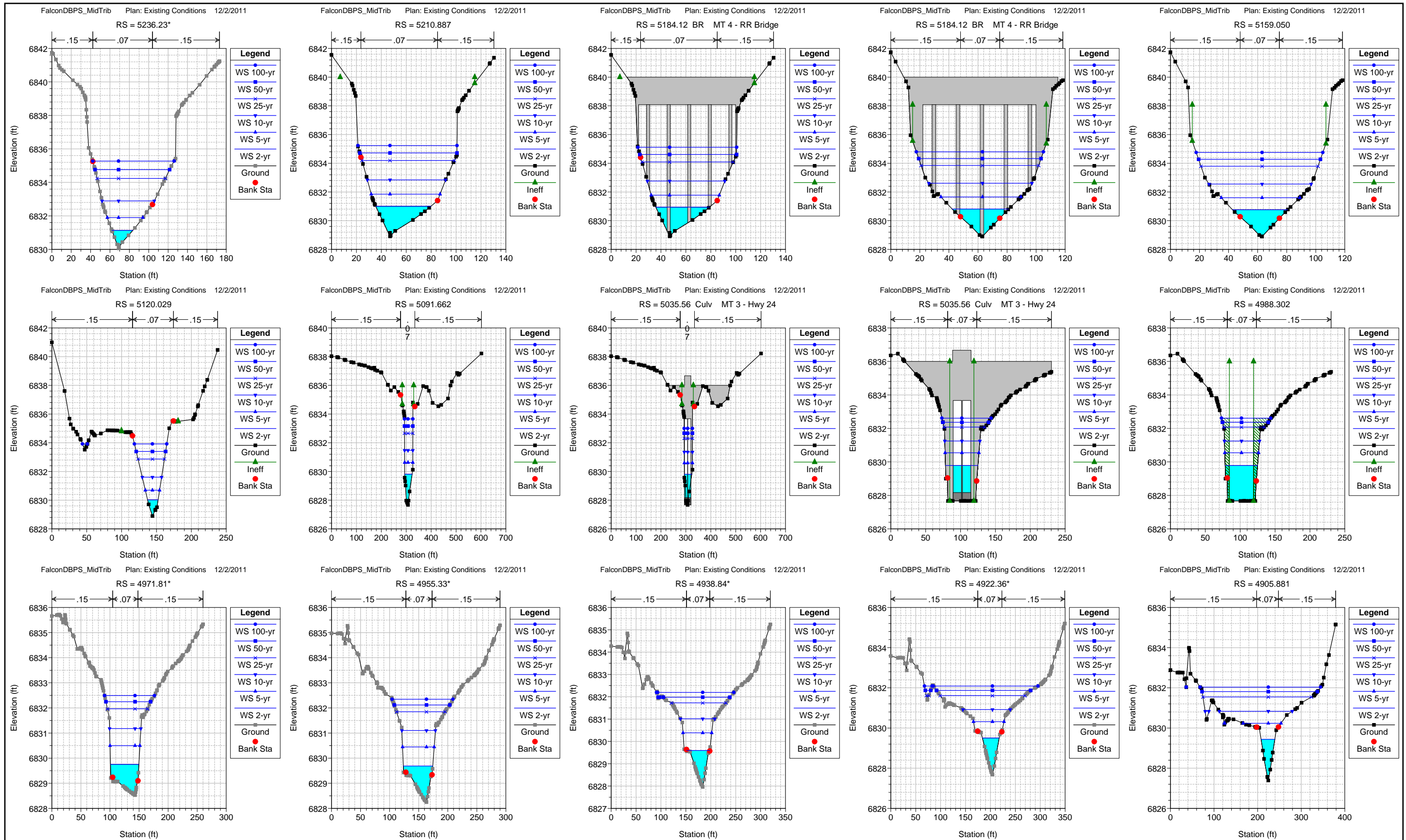
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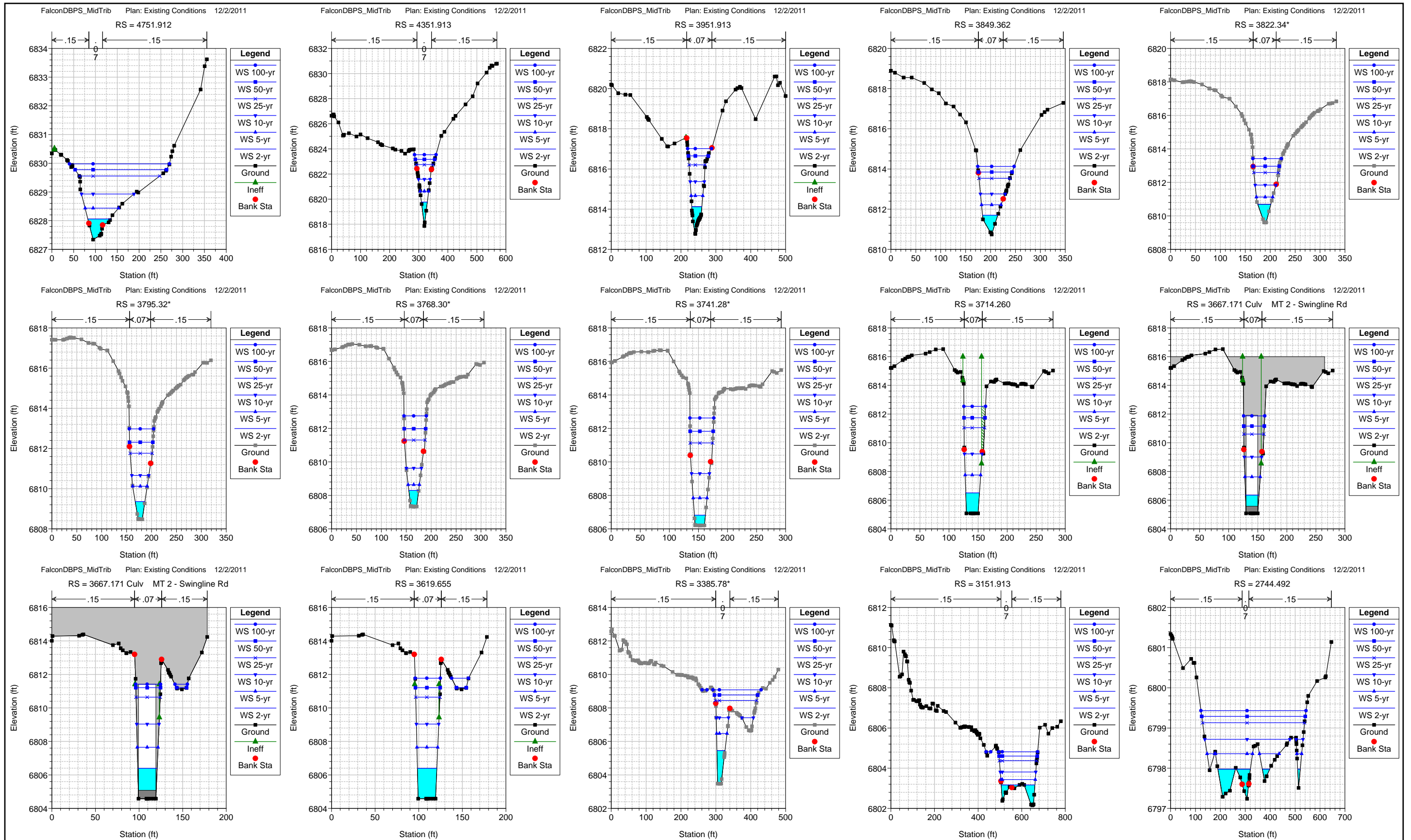


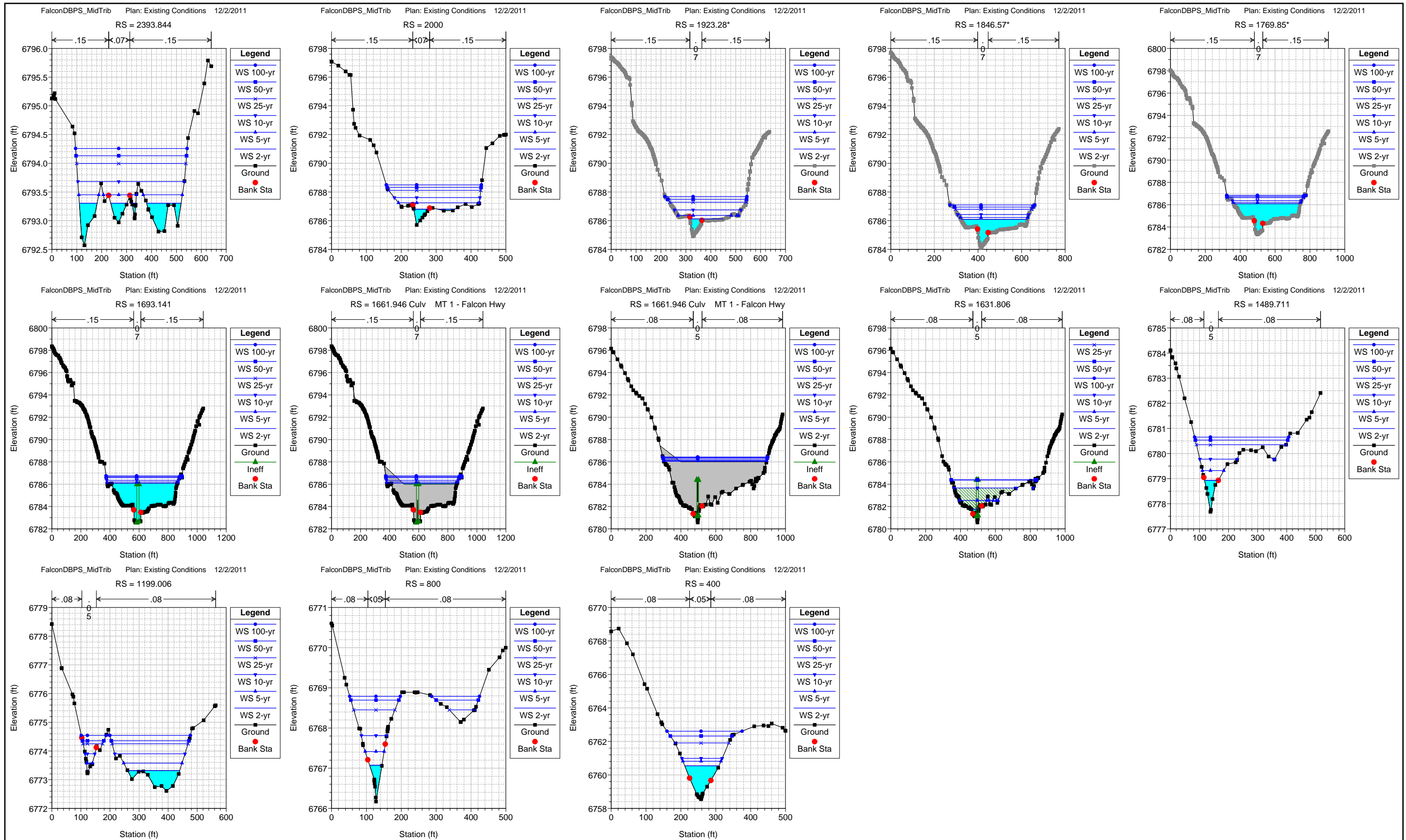




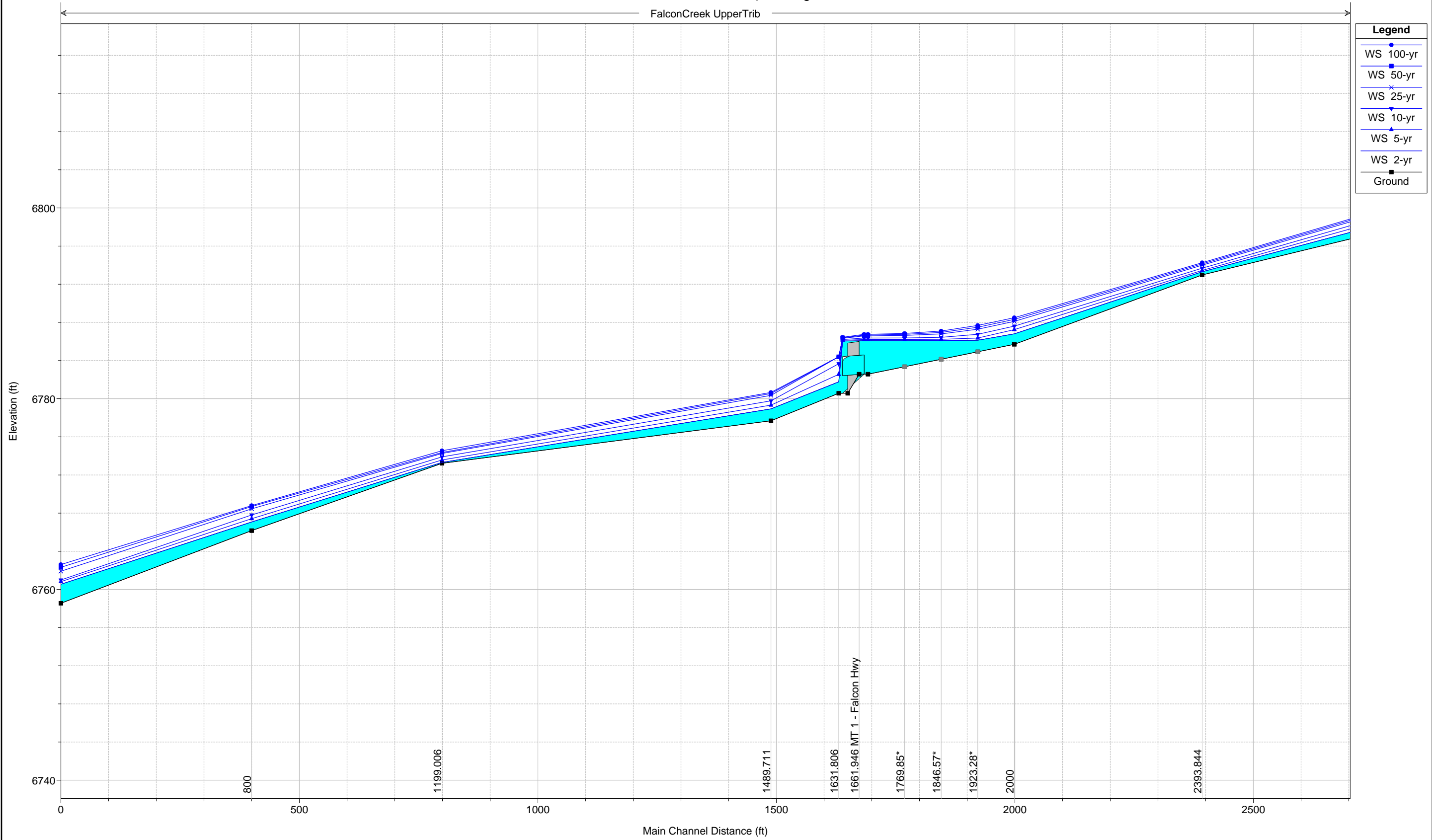






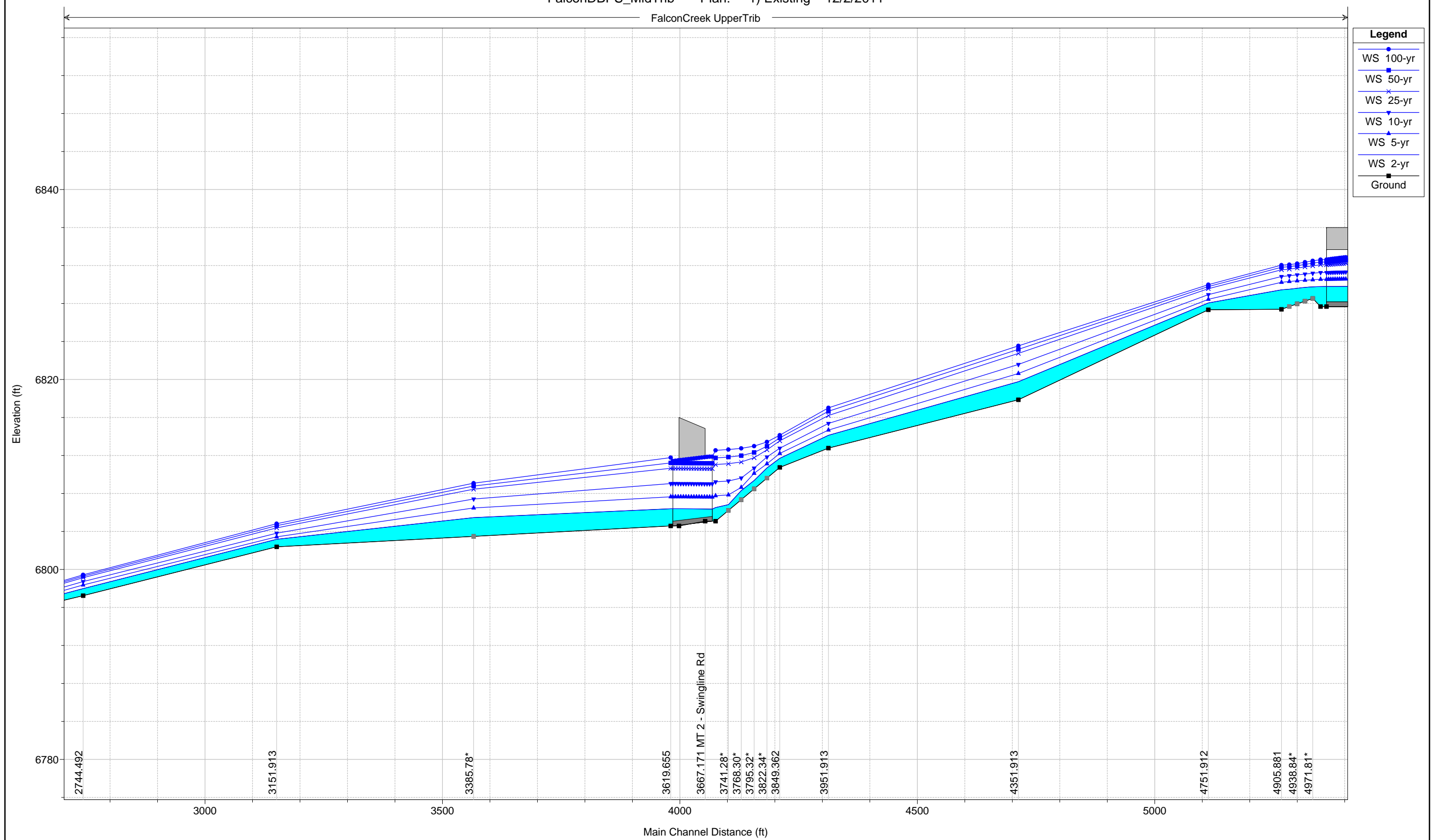


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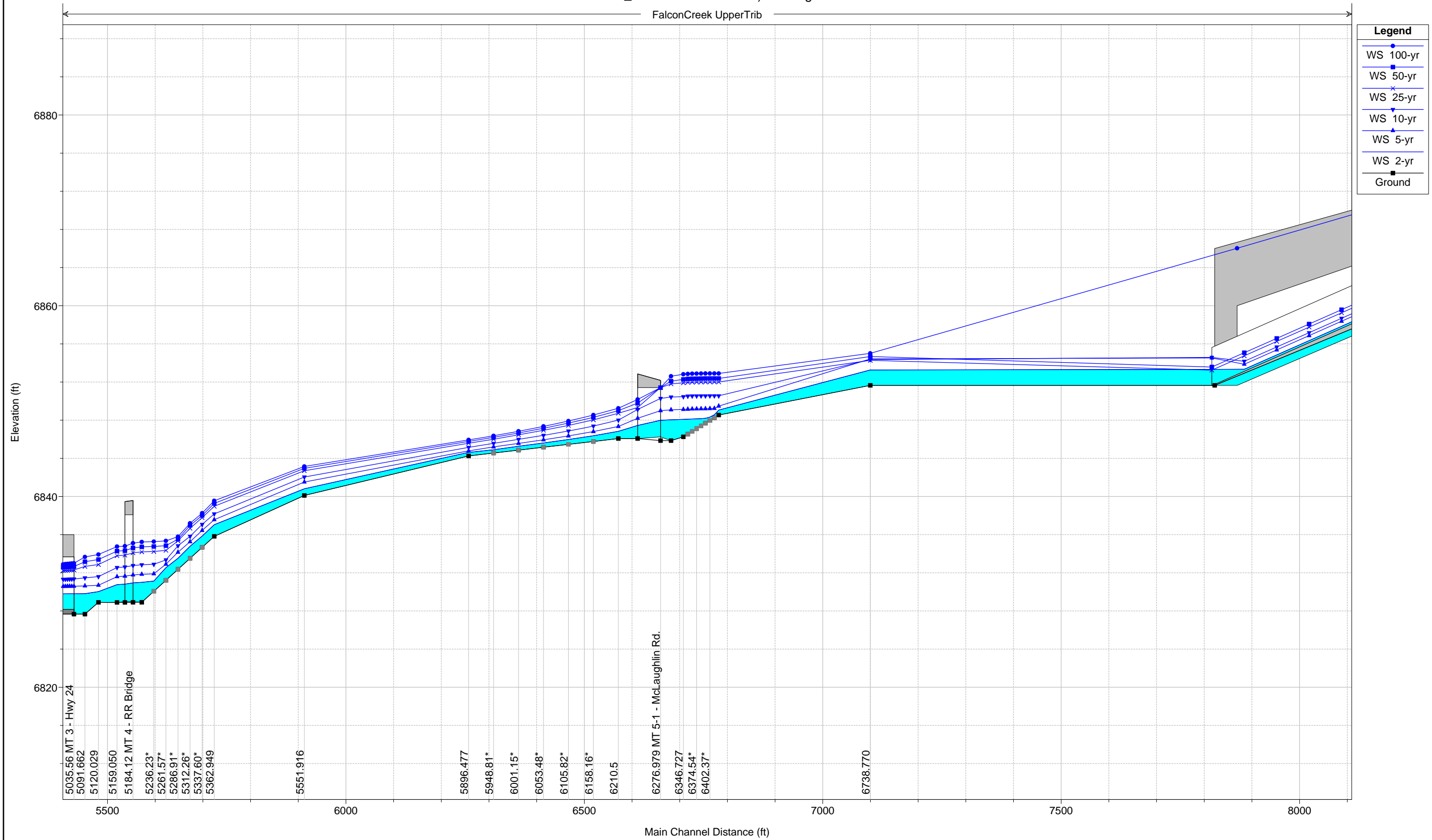


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

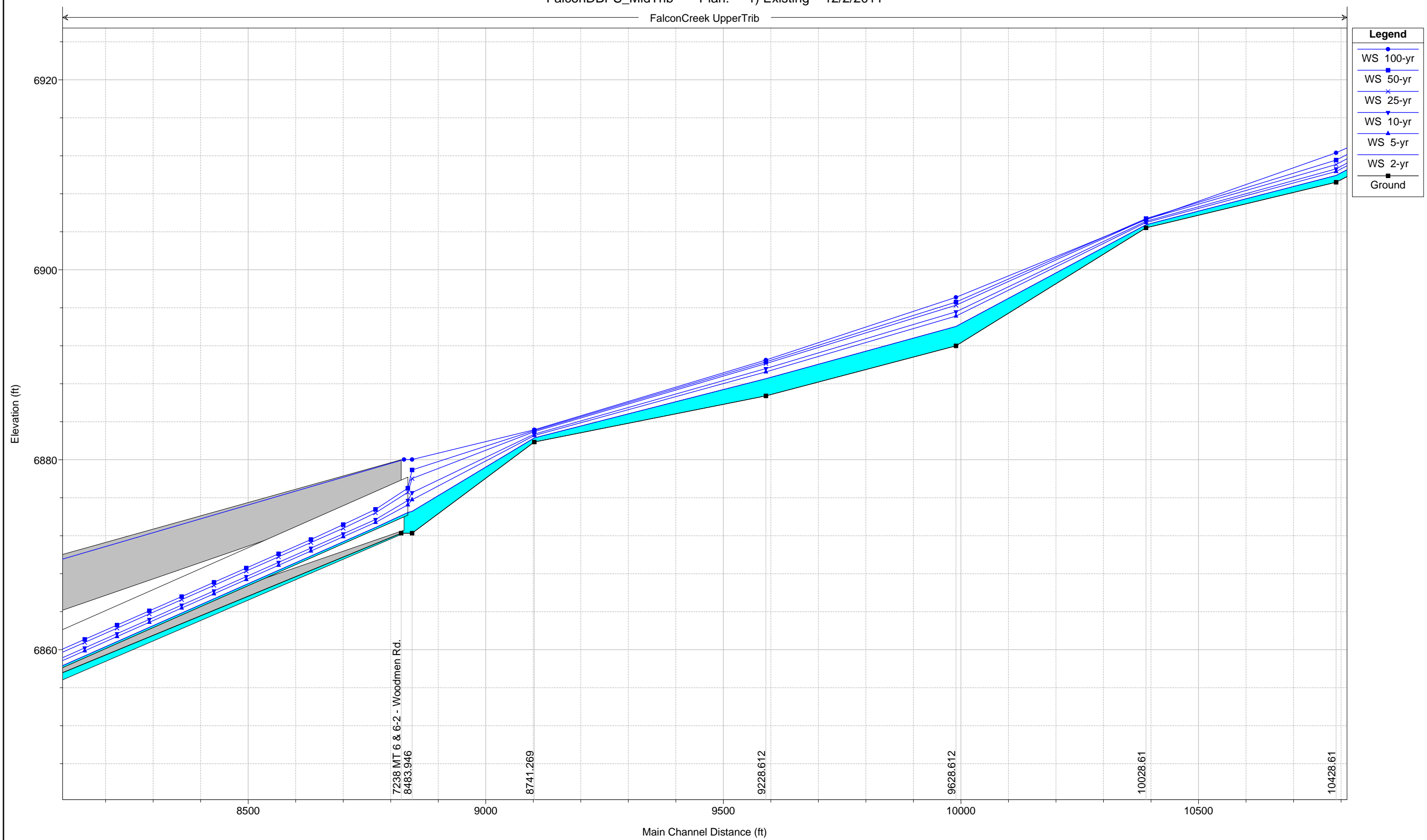
FalconCreek UpperTrib



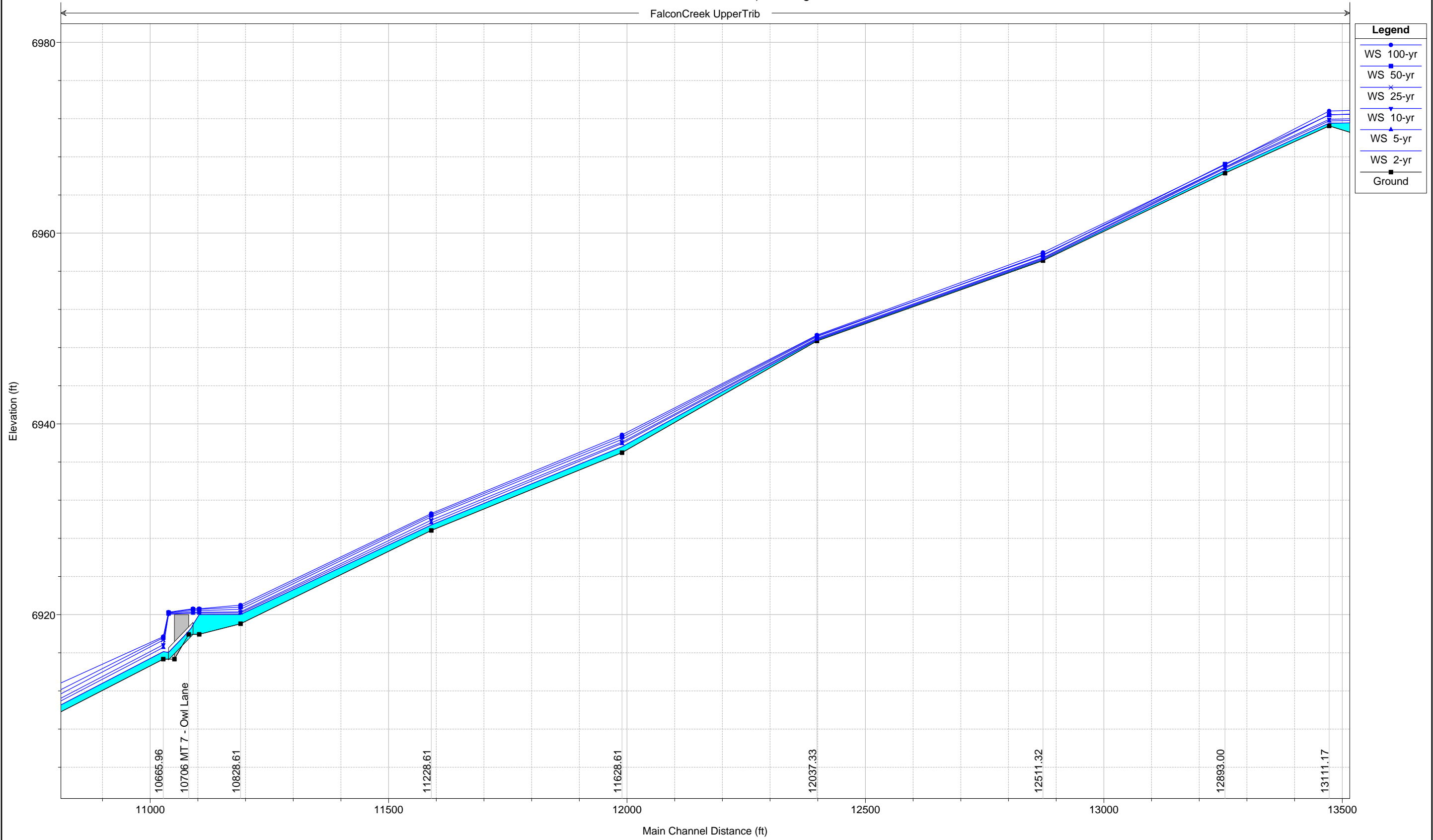
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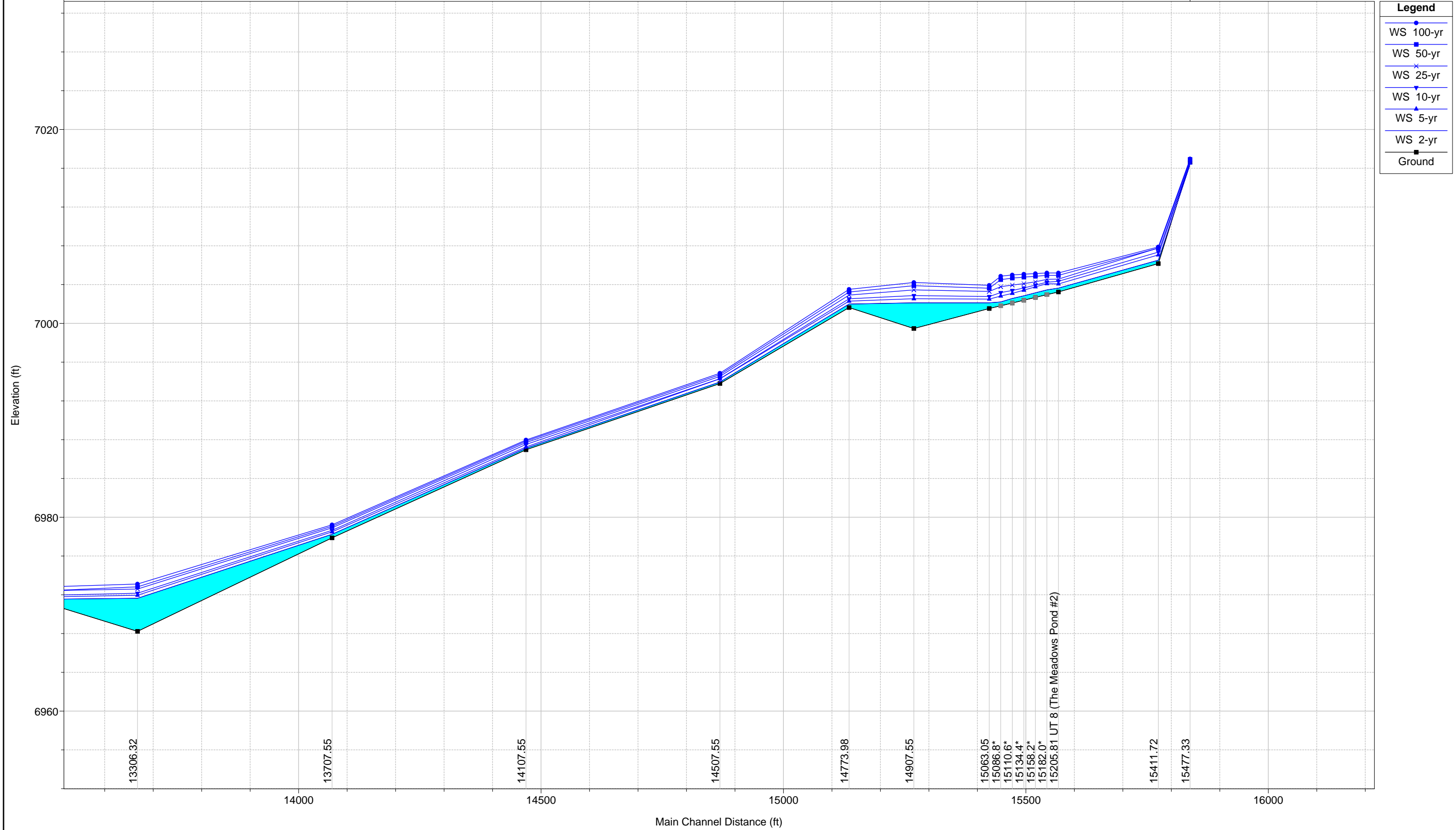
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1 in Horiz. = 200 ft 1 in Vert. = 10 ft

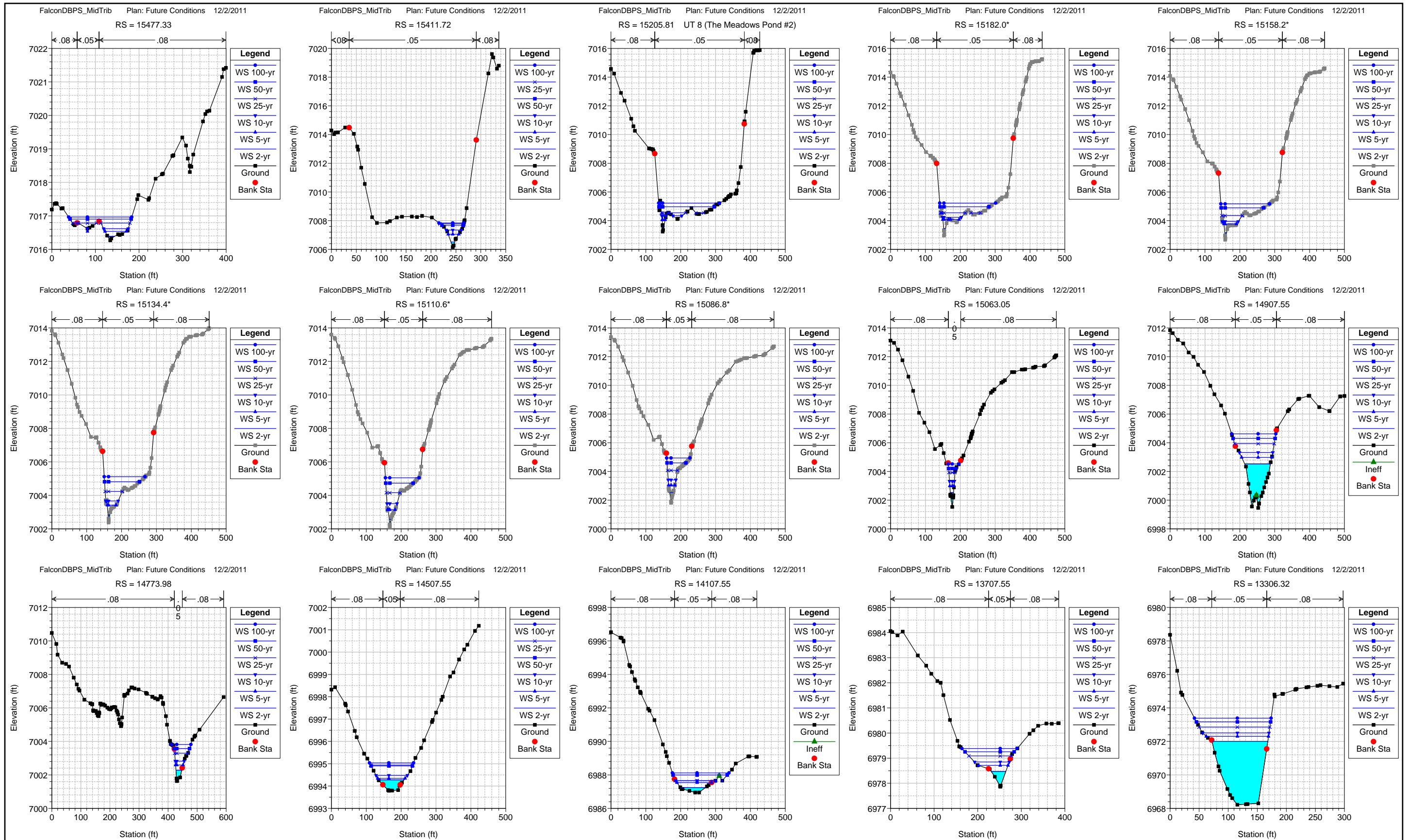


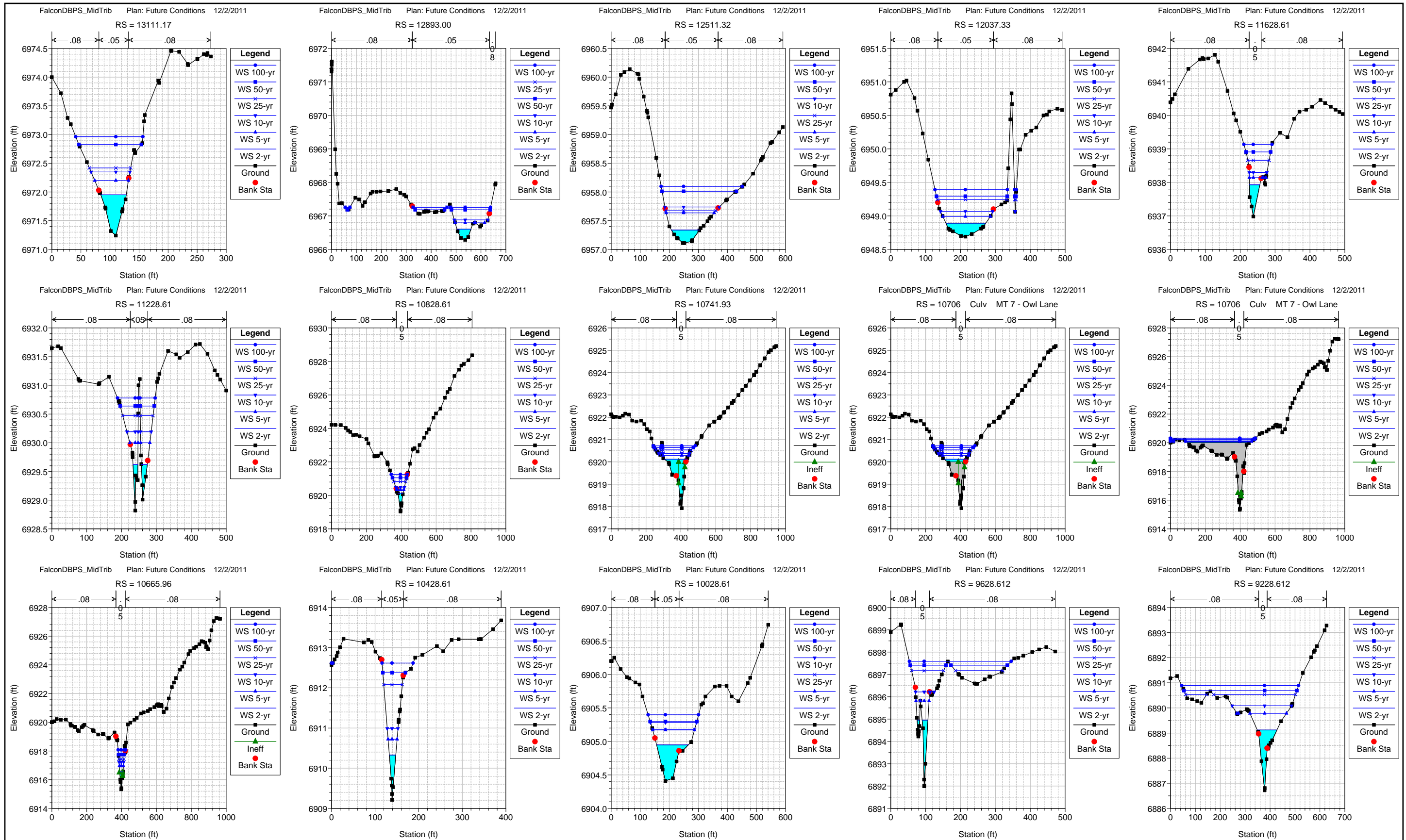
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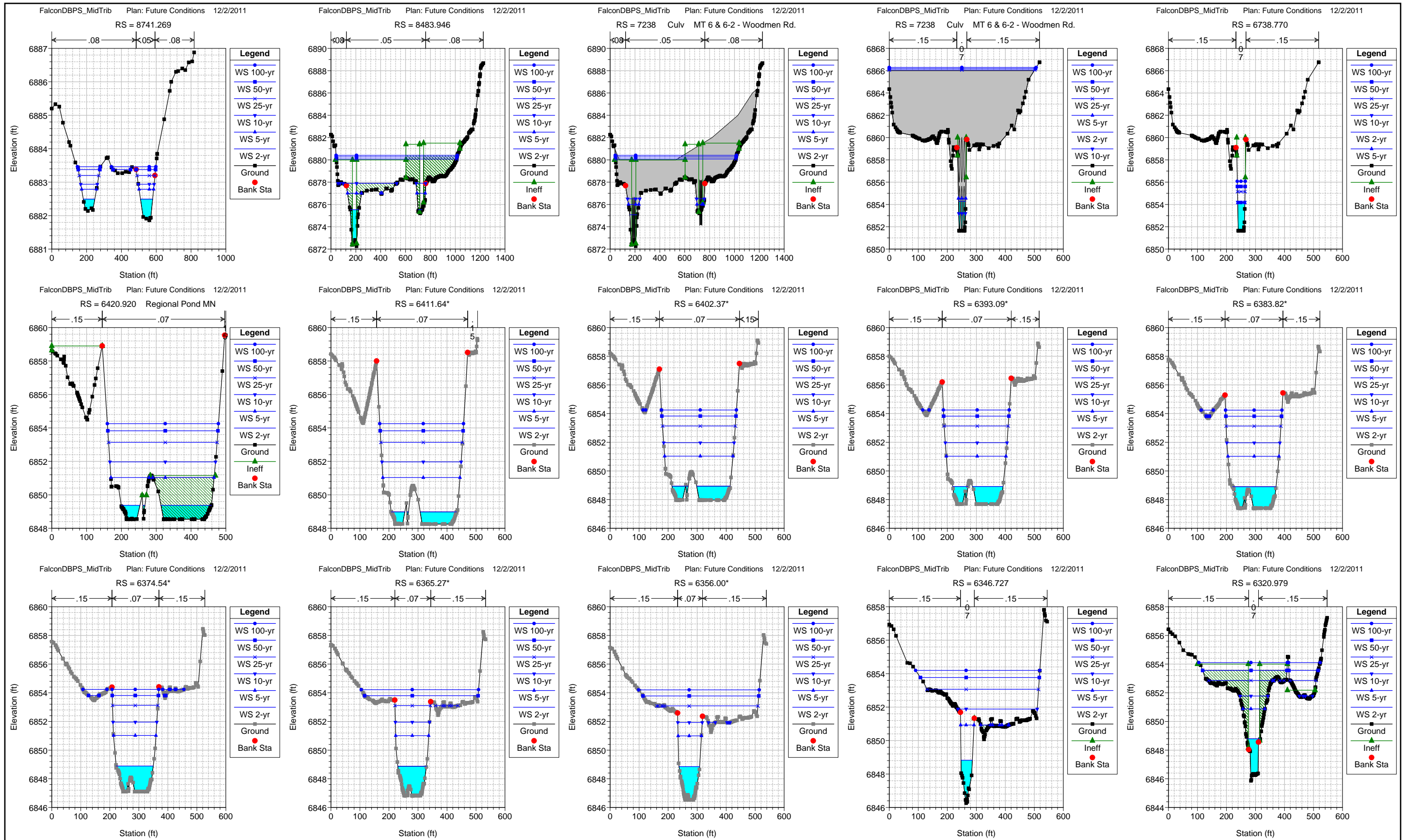


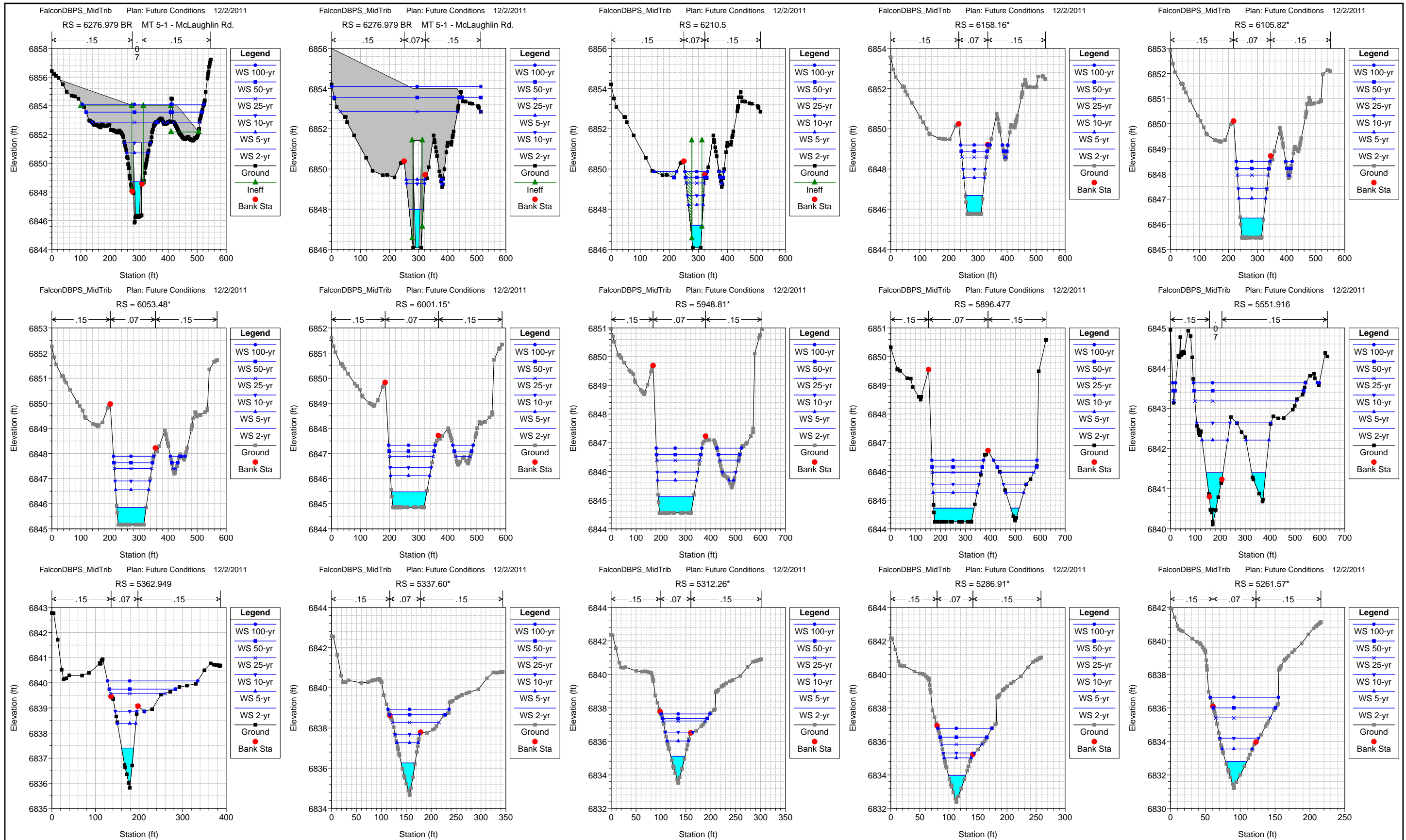
Middle Tributary – Future Conditions

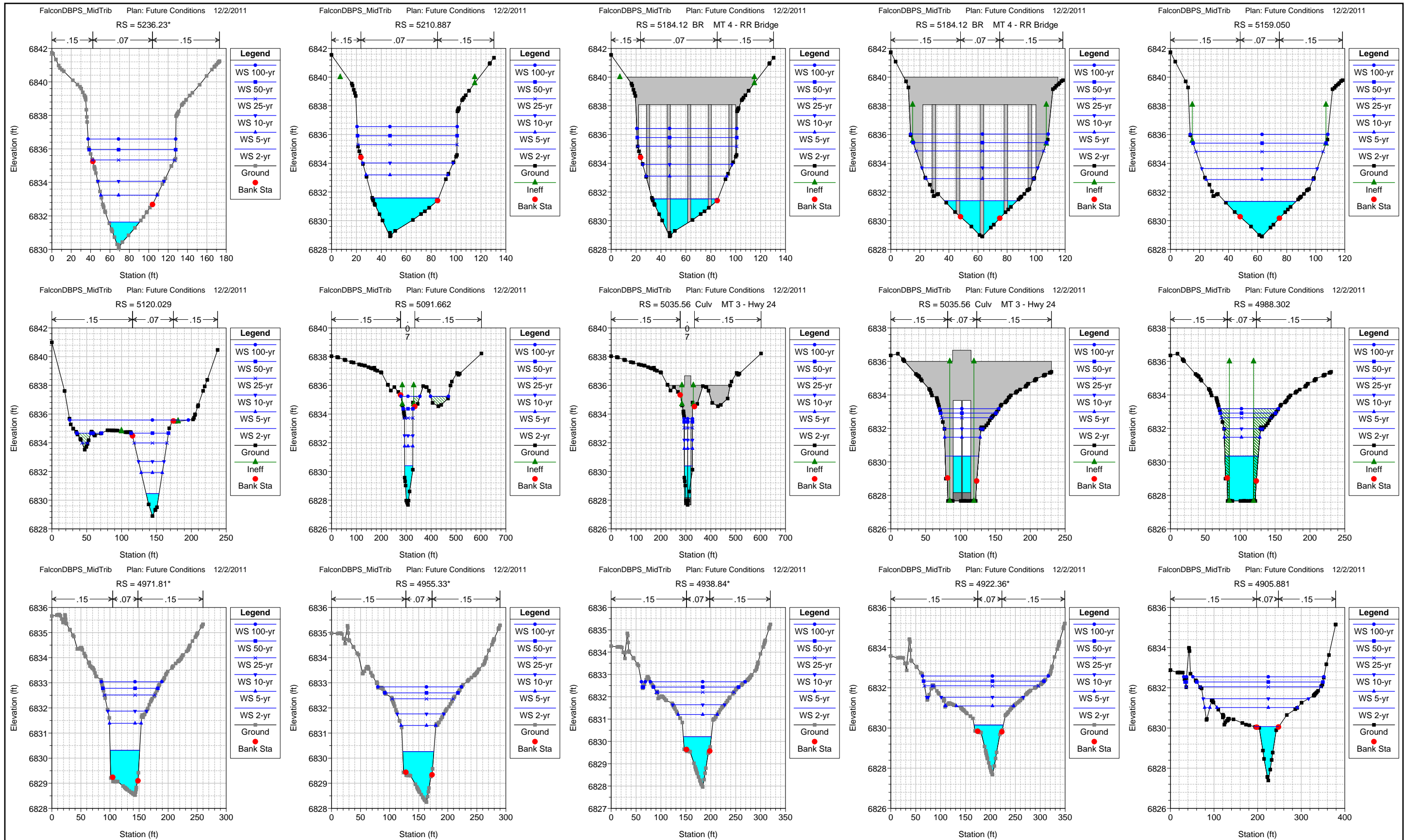
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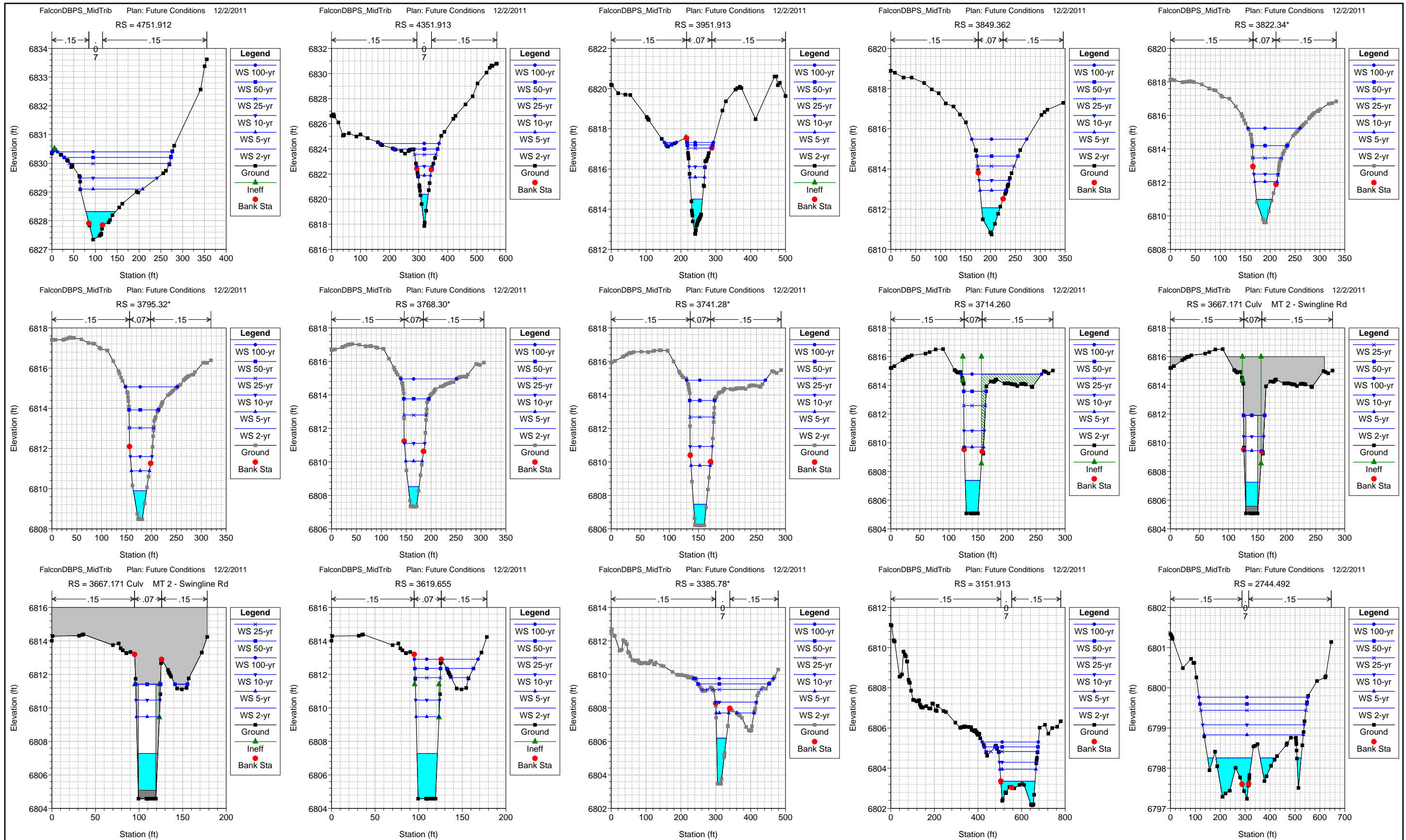


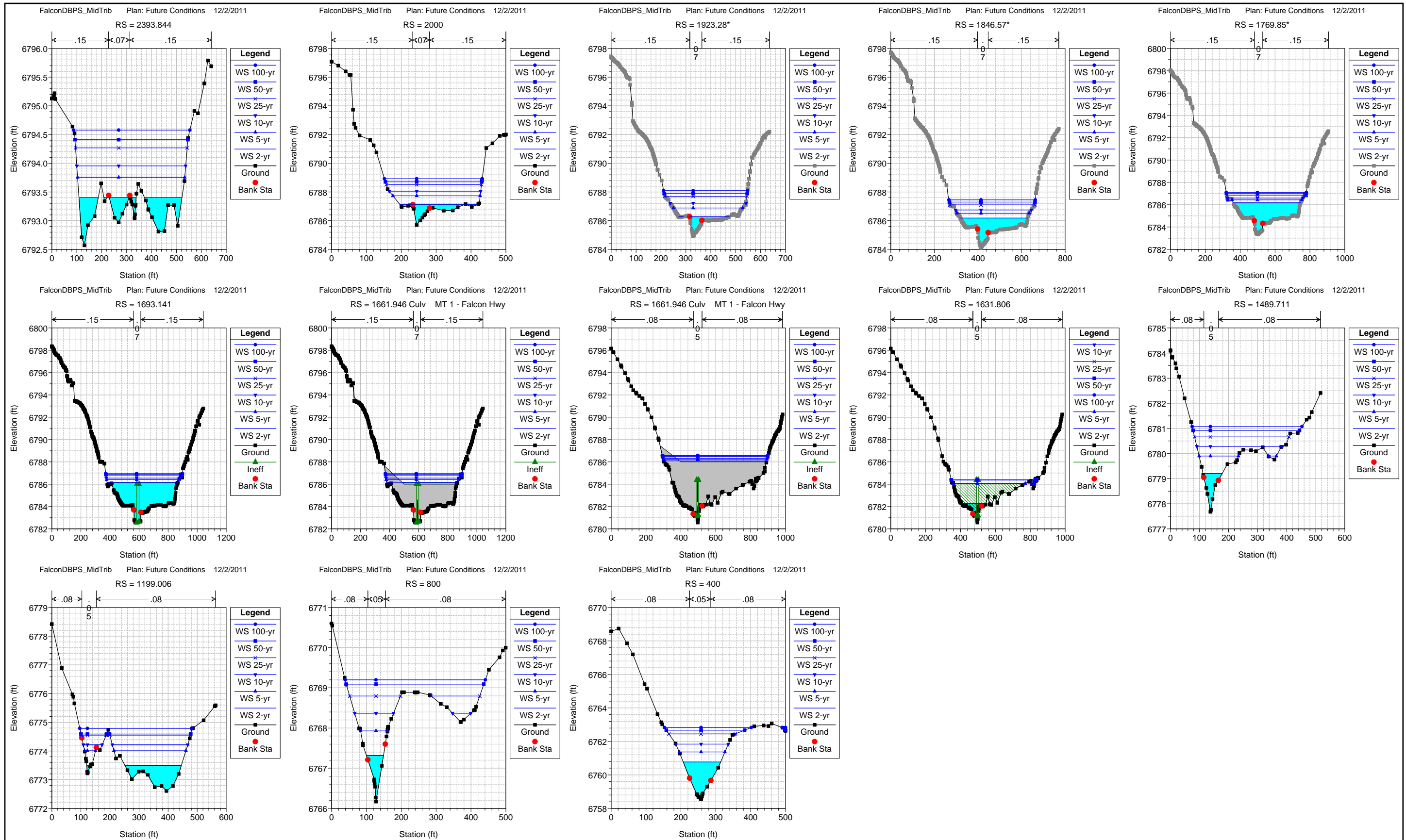




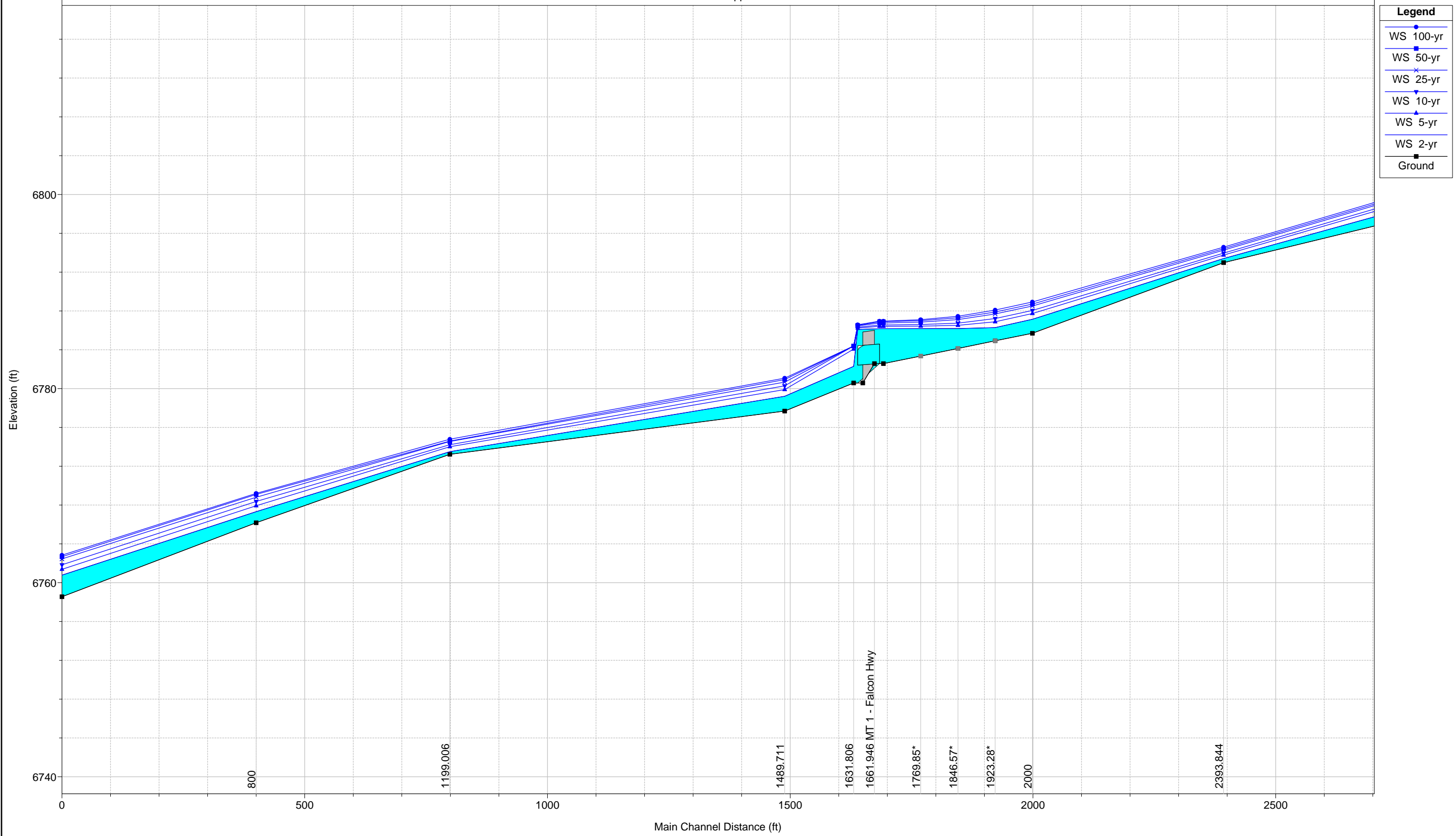






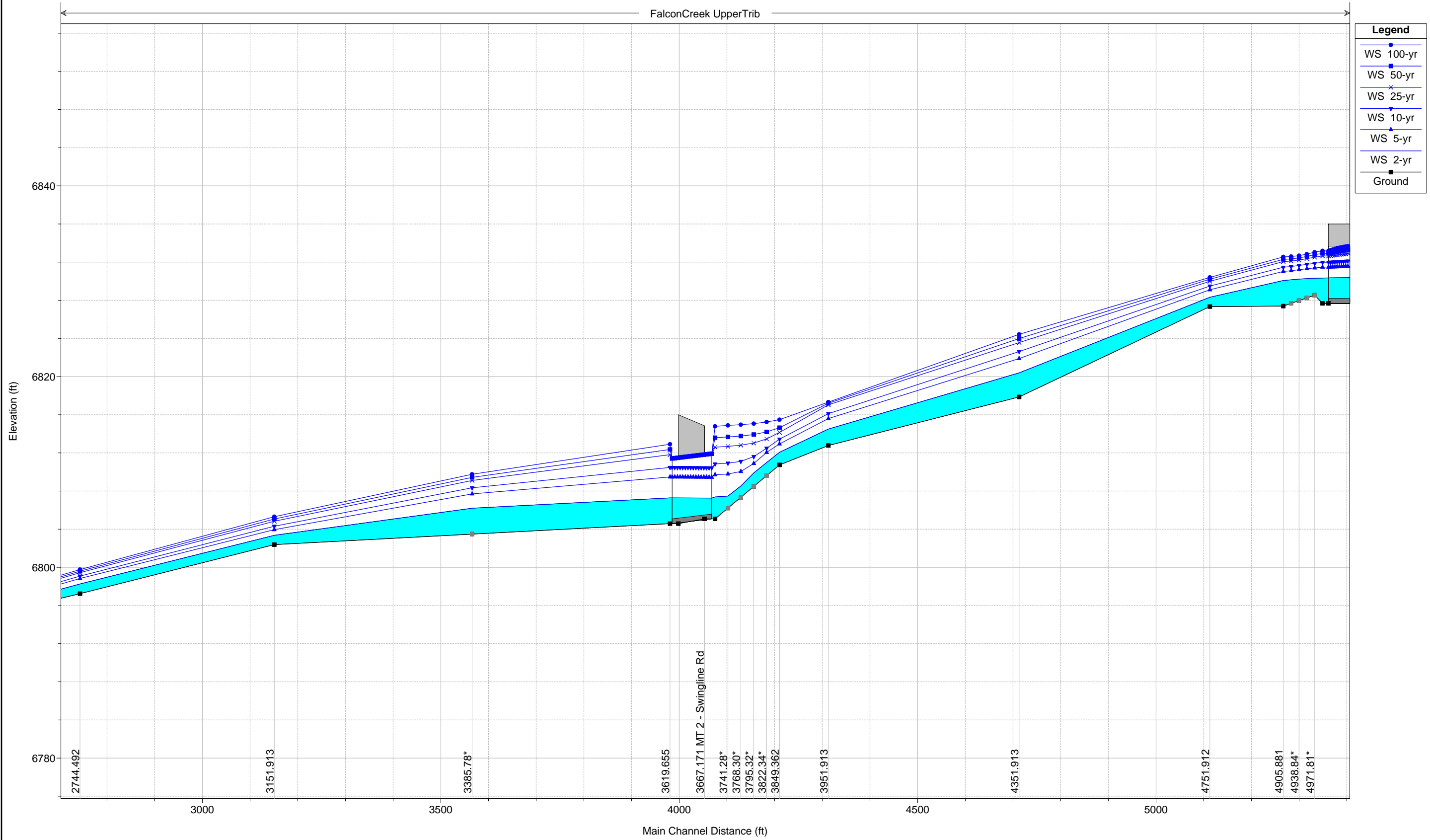


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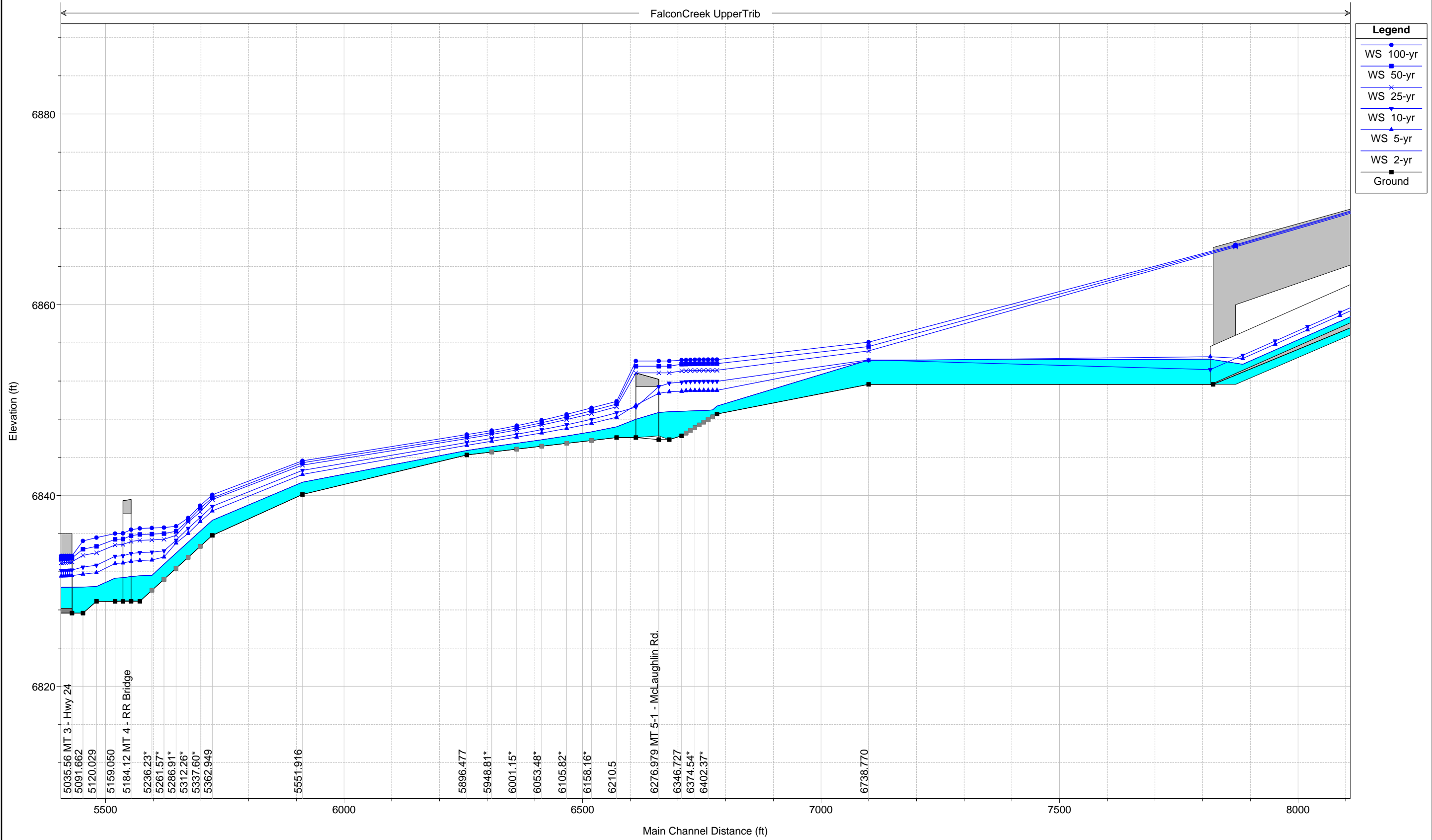


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

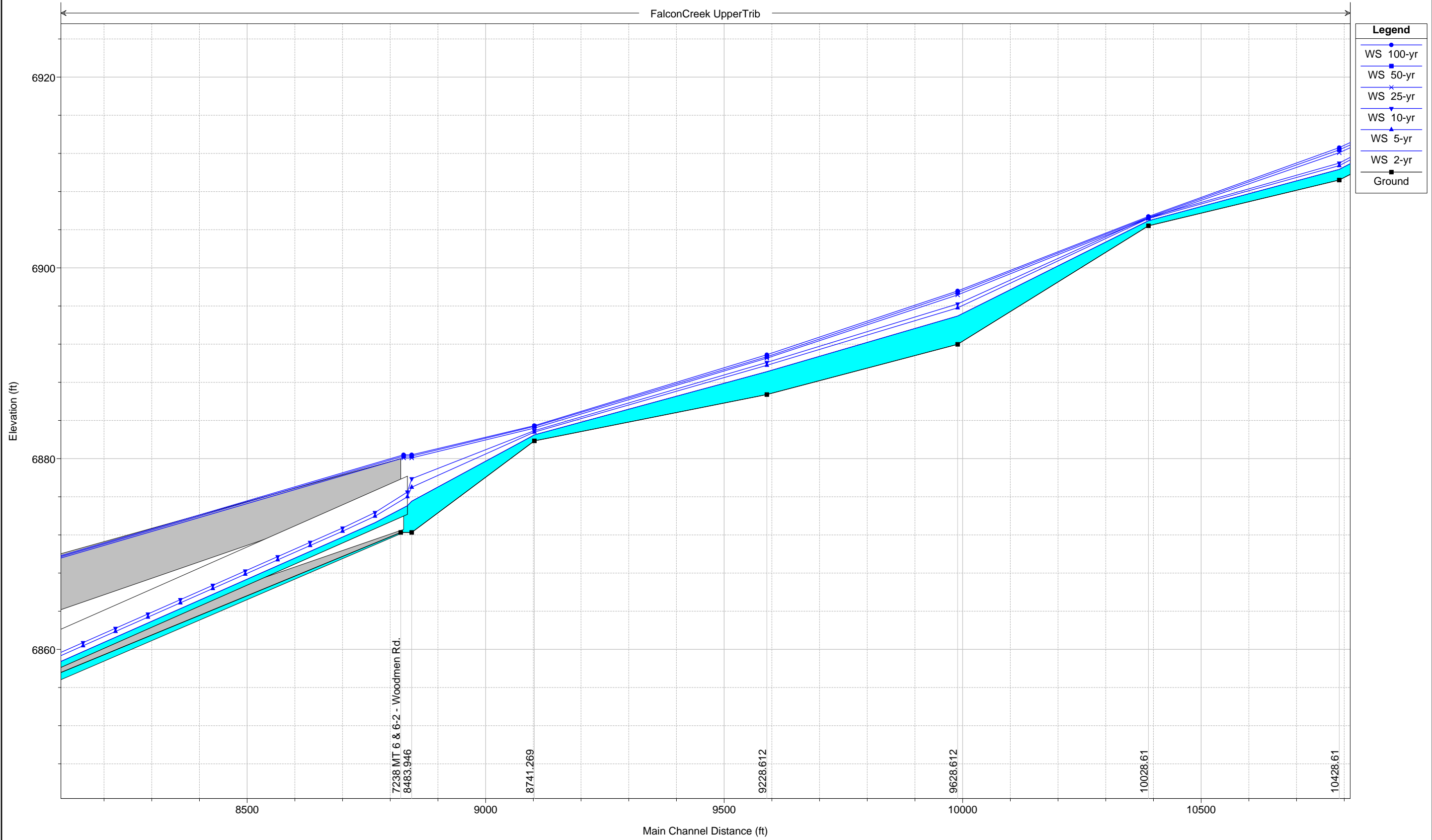
FalconCreek UpperTrib



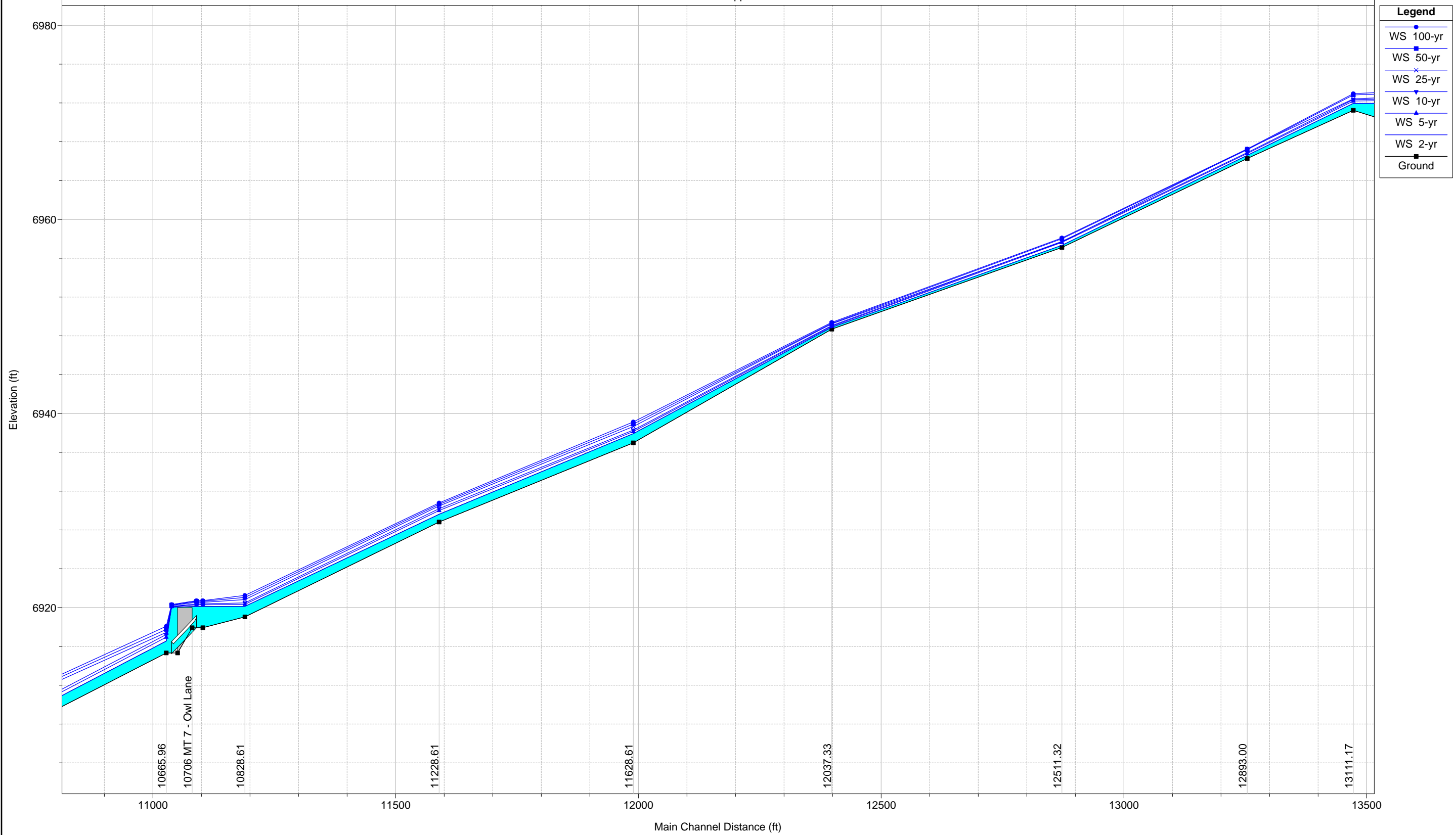
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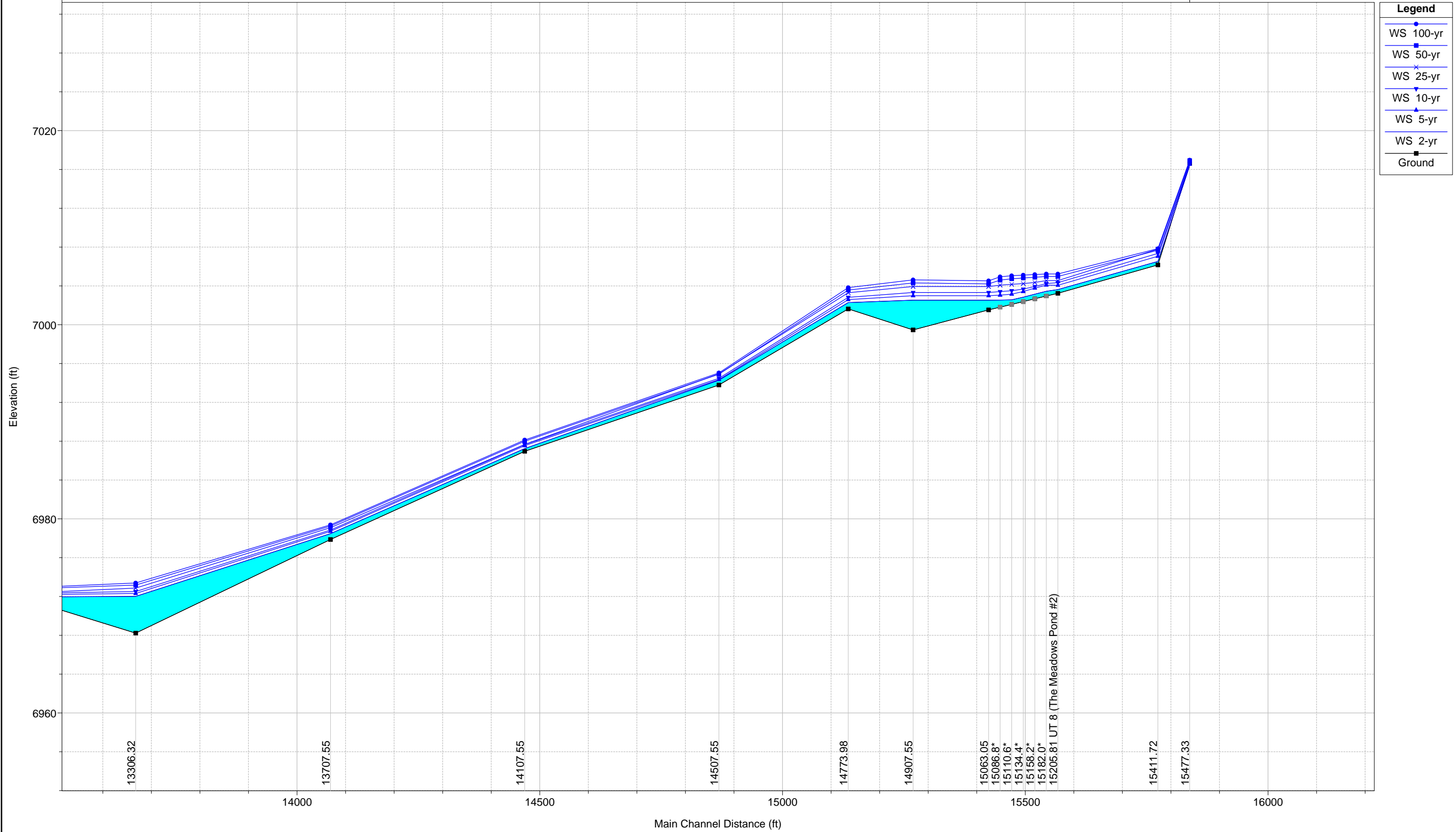
1 in Horiz. = 200 ft 1 in Vert. = 10 ft



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

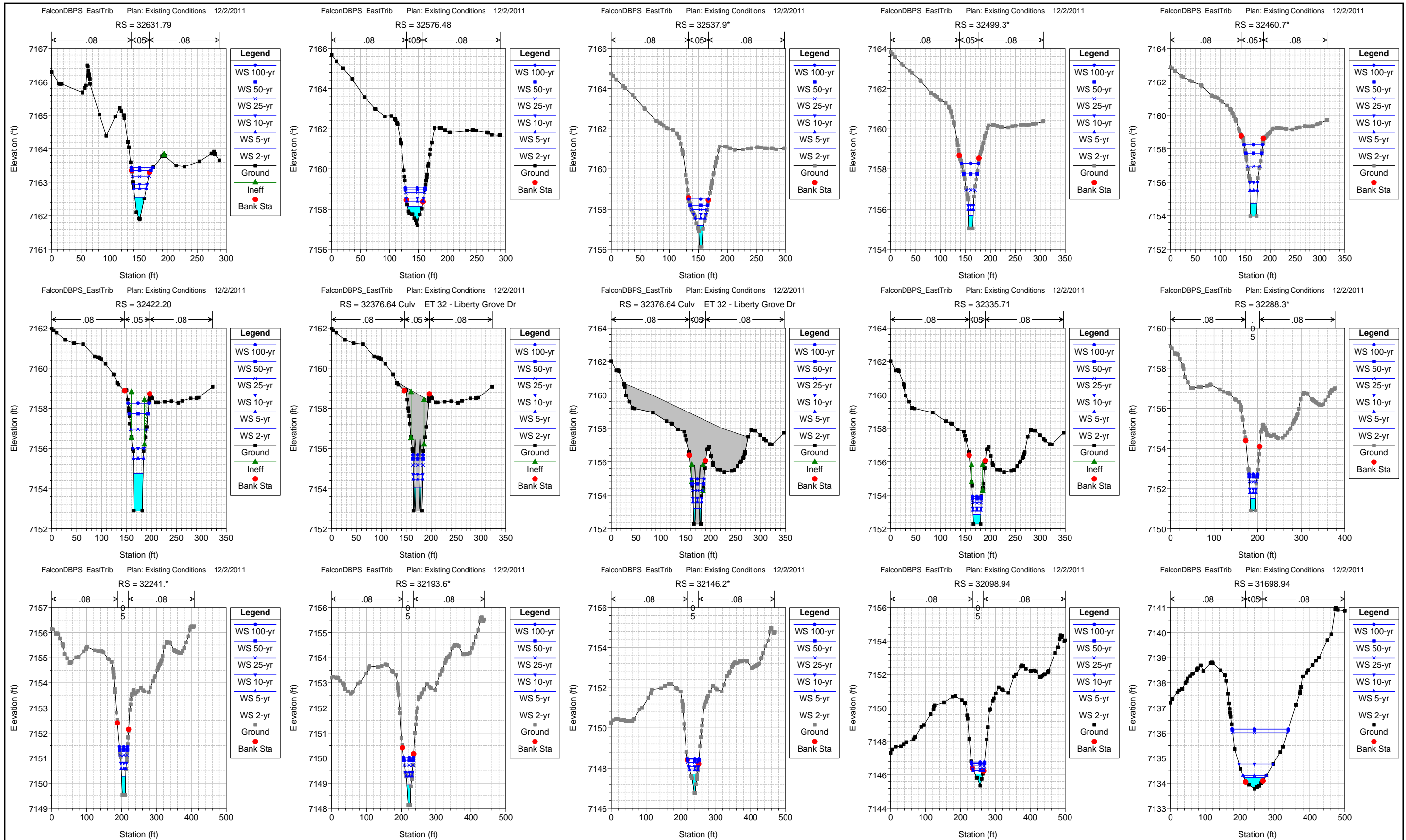


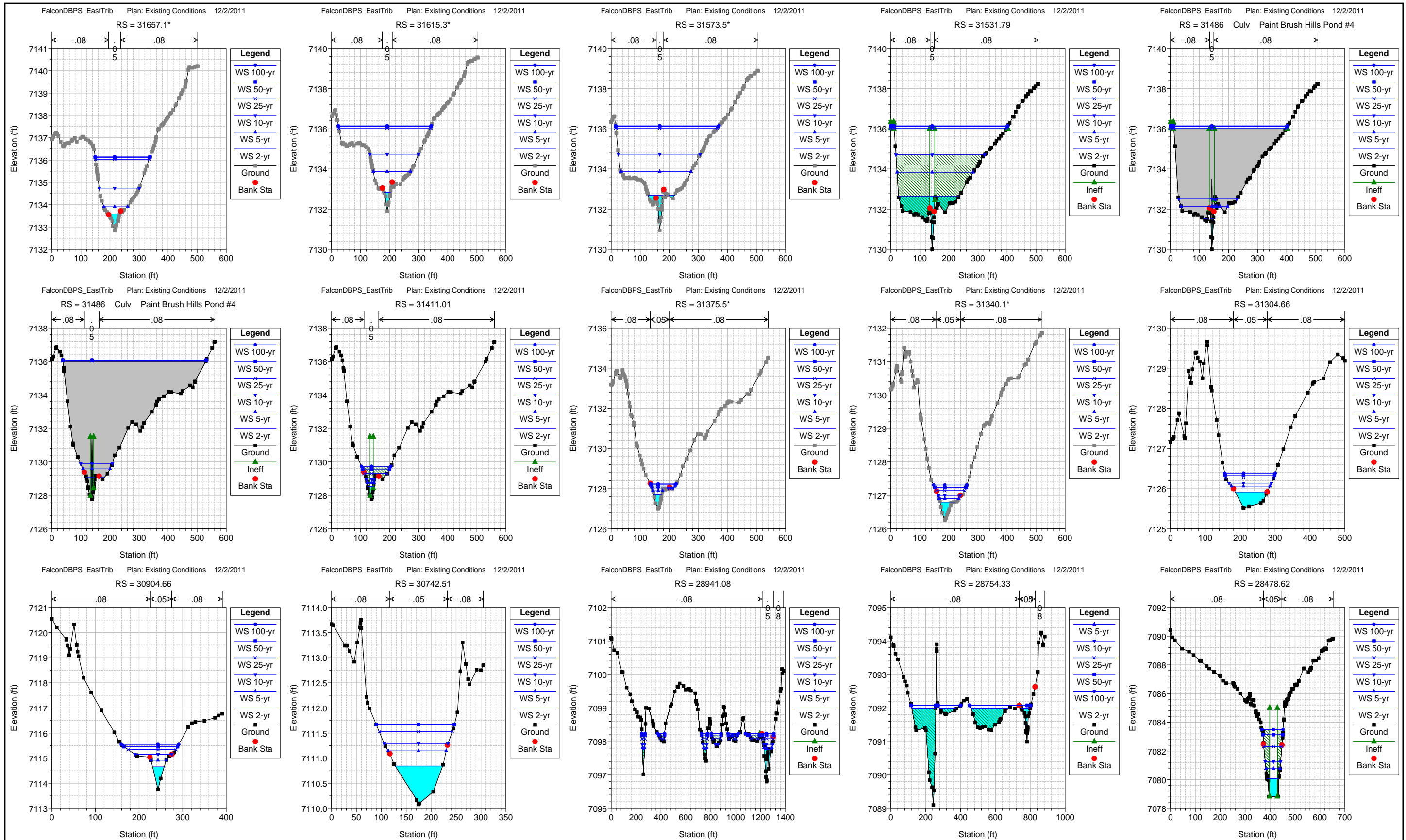
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

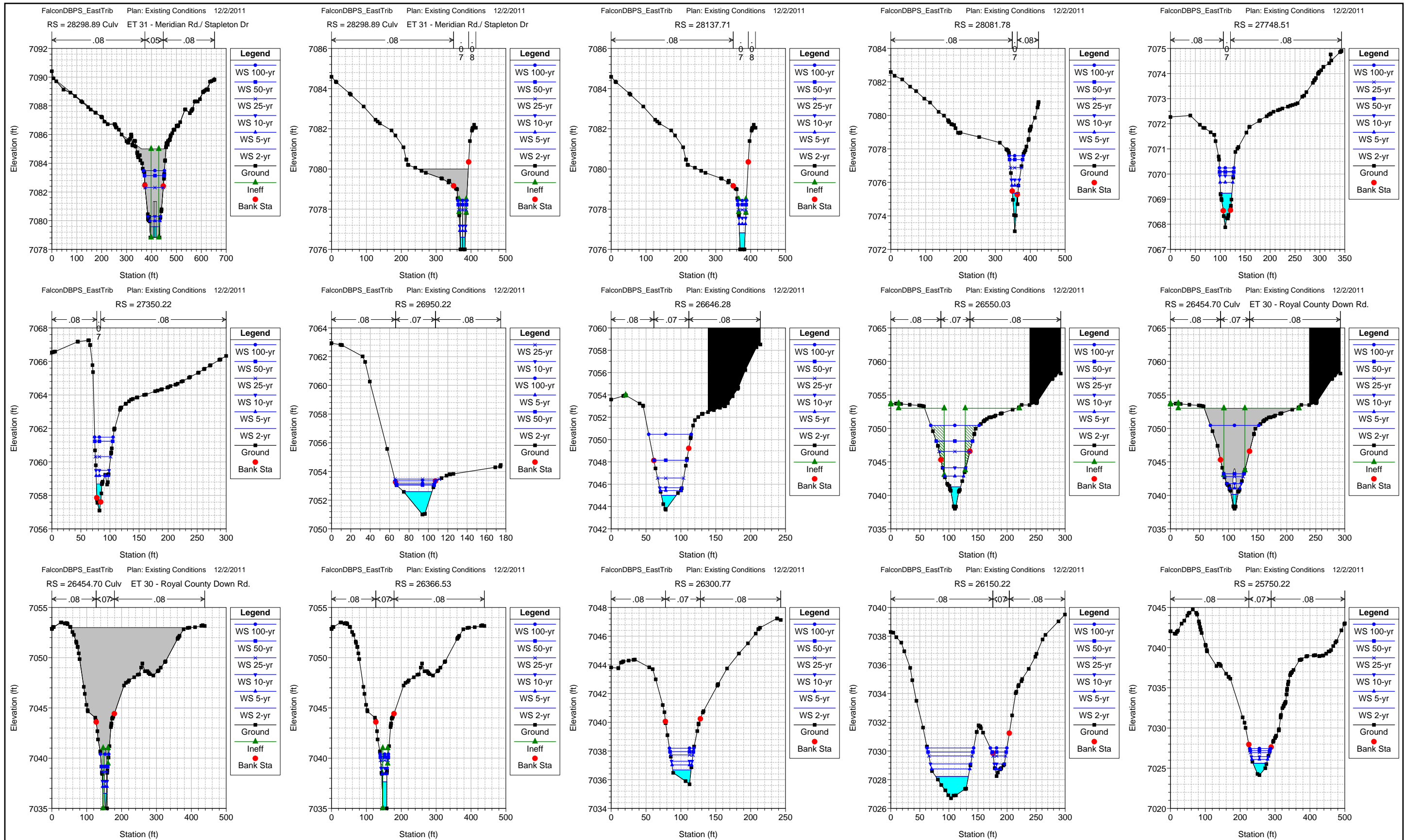


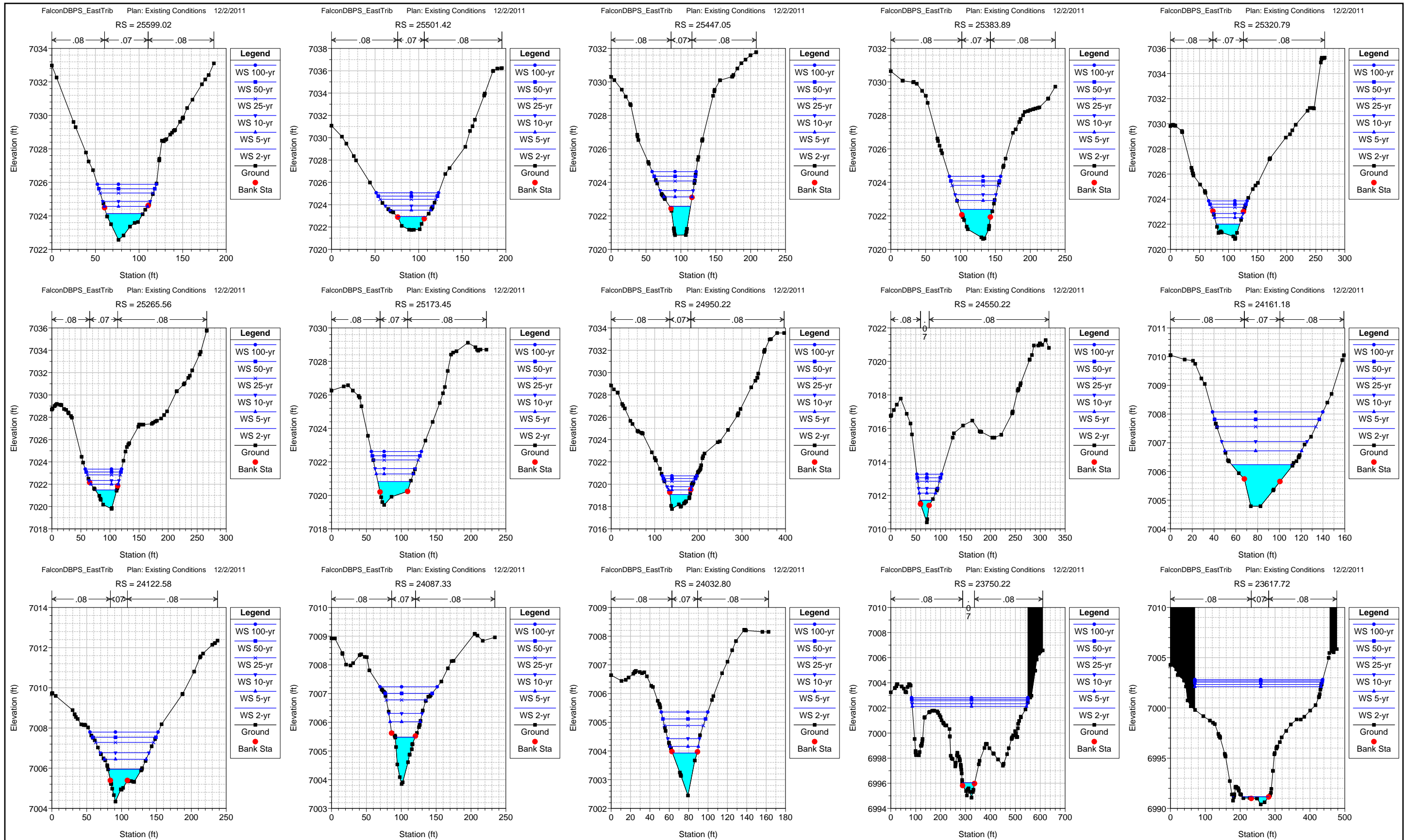
East Tributary – Existing Conditions

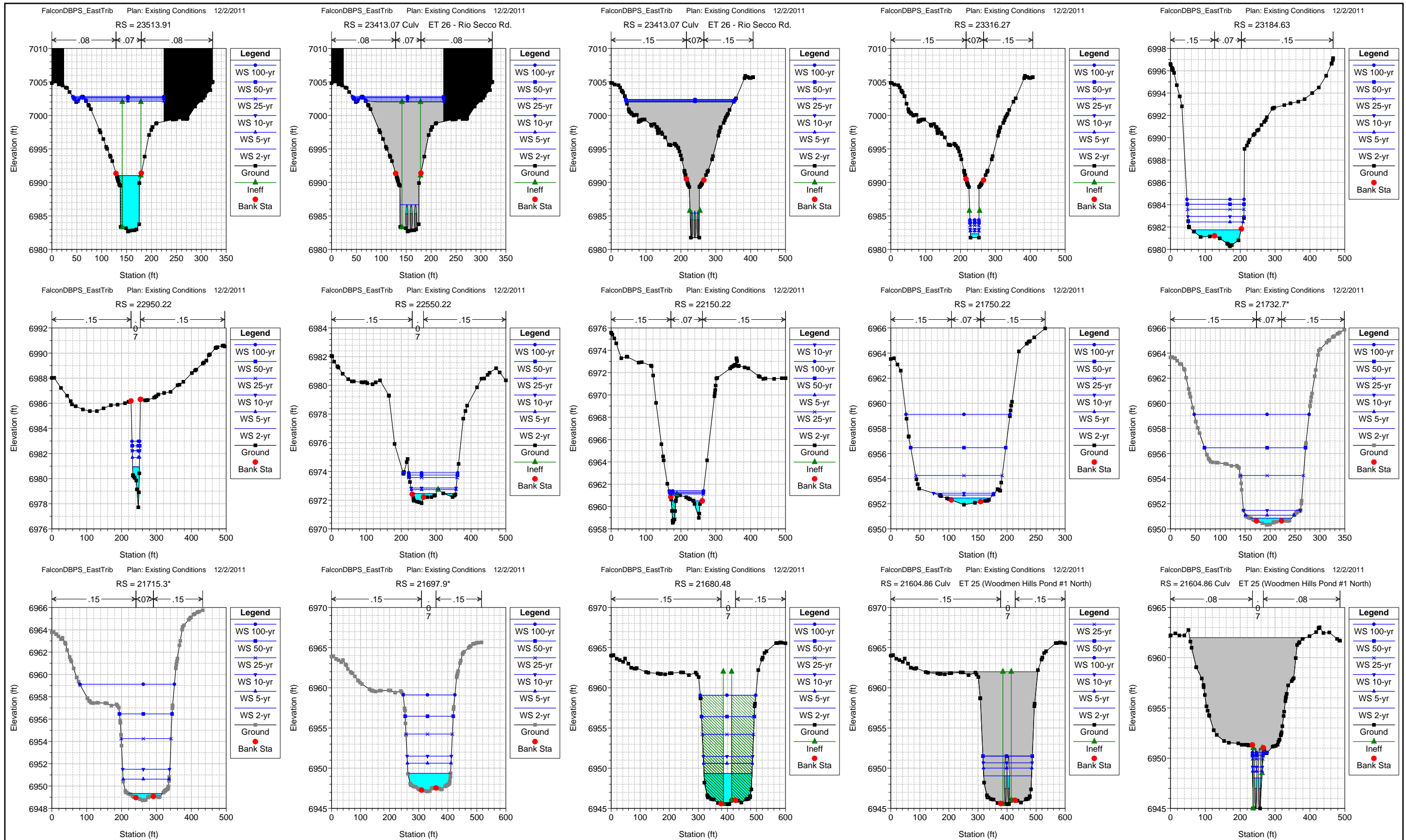
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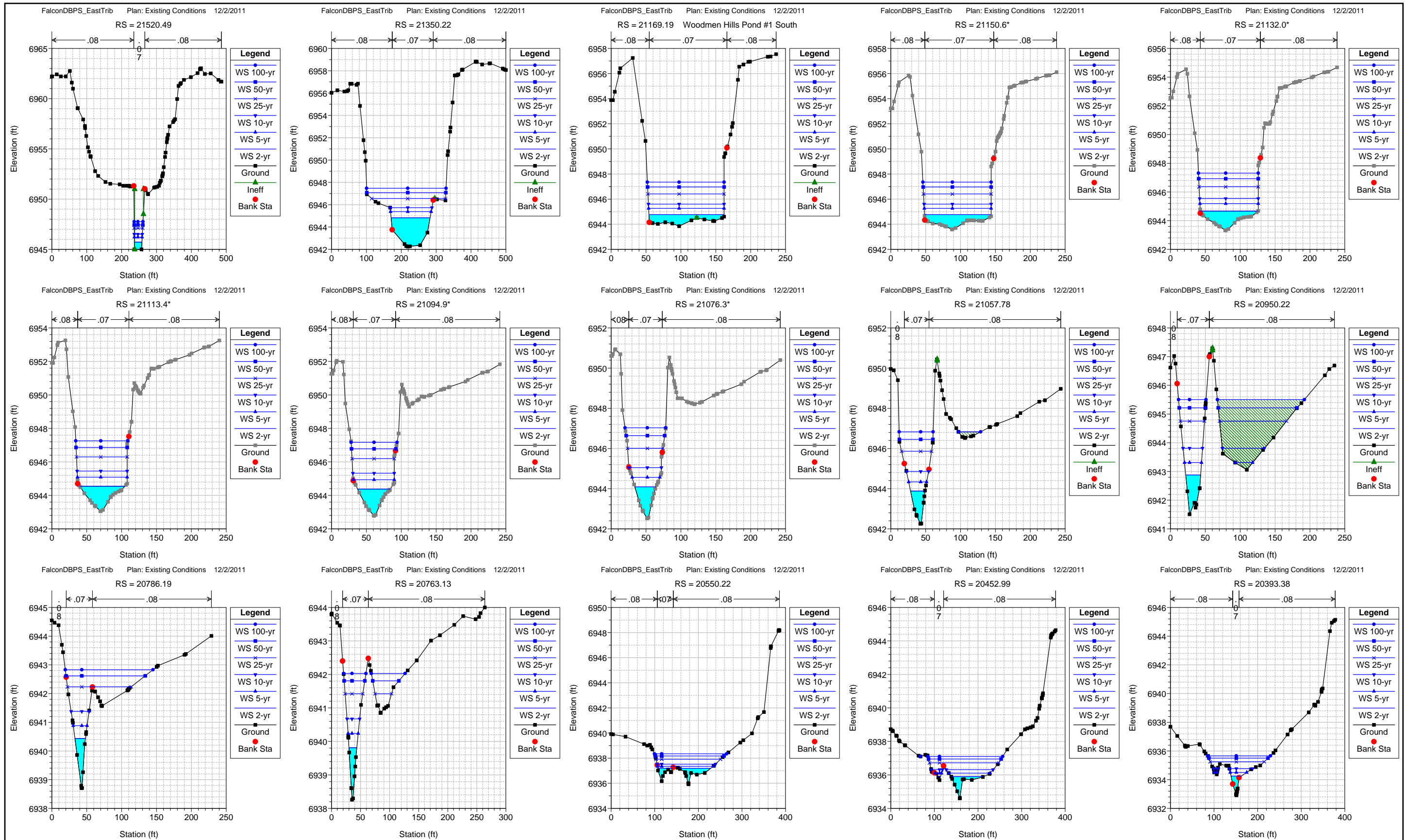


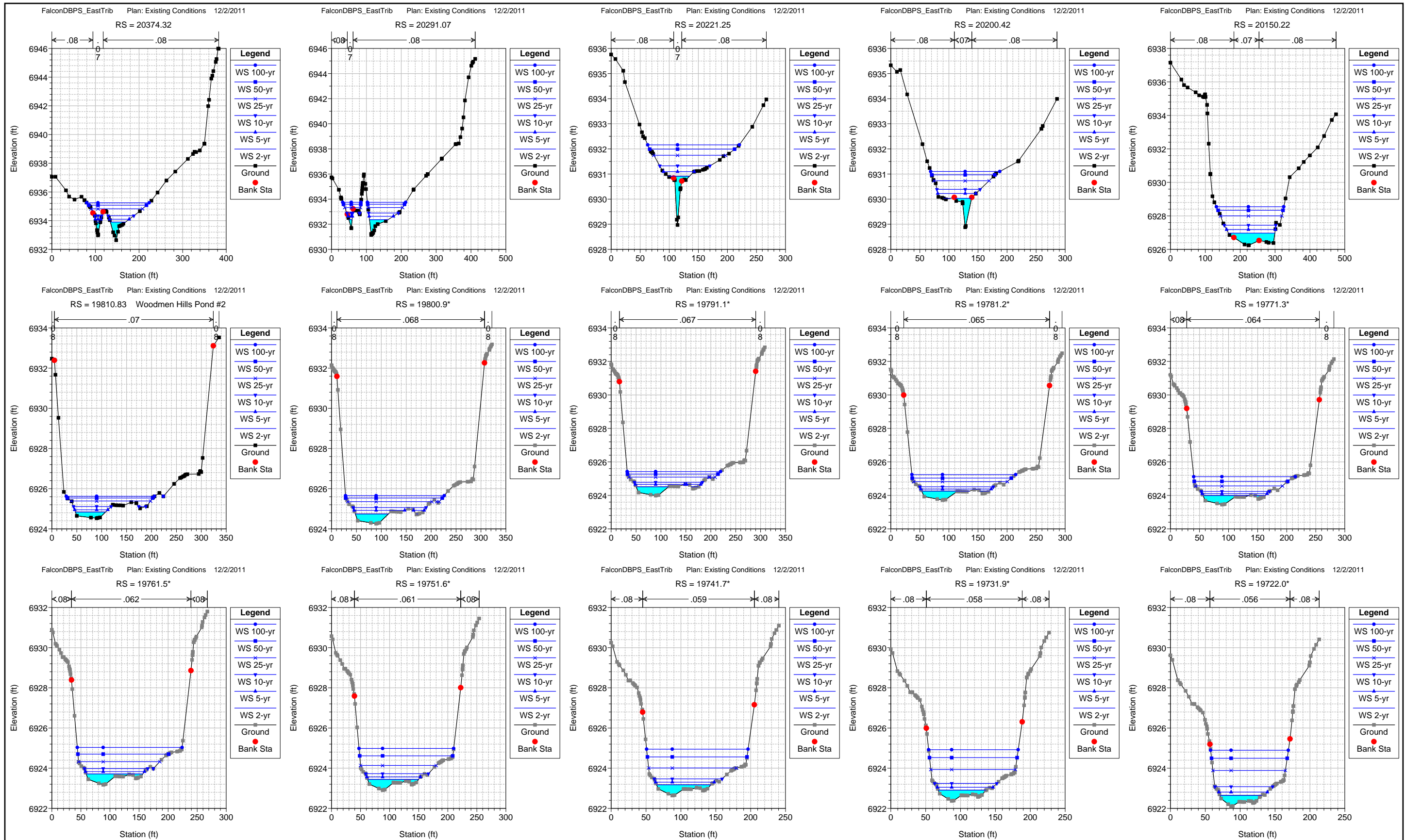


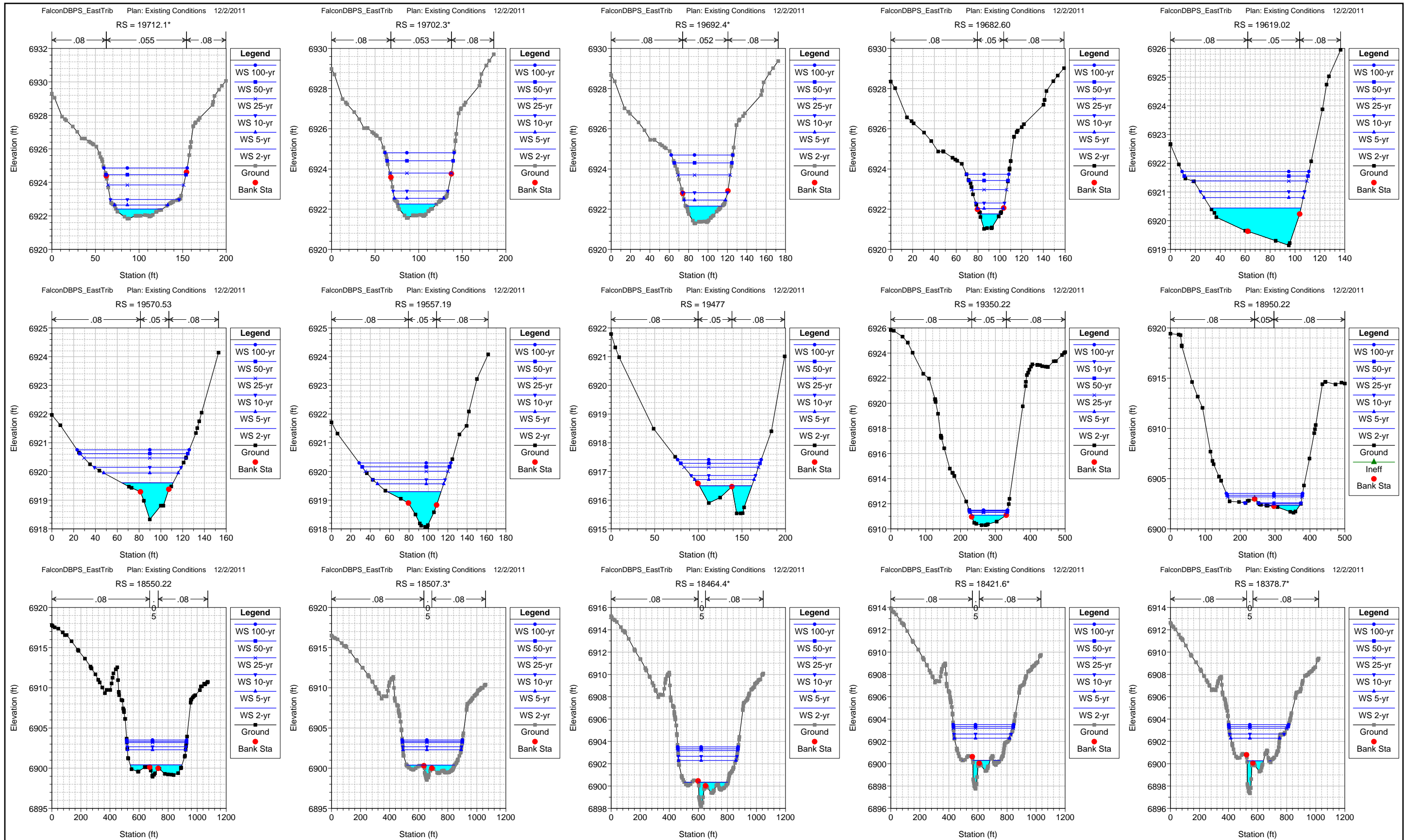


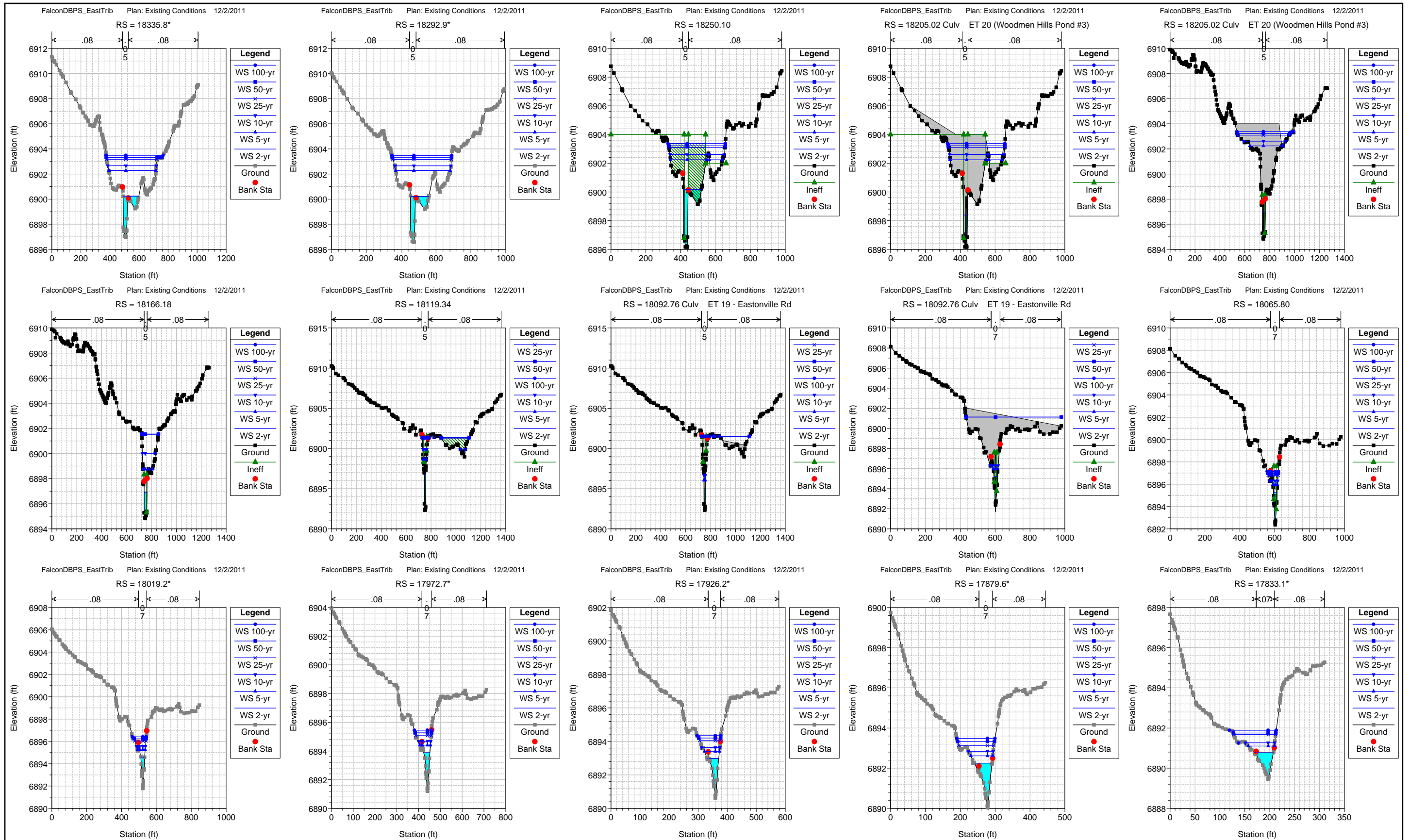


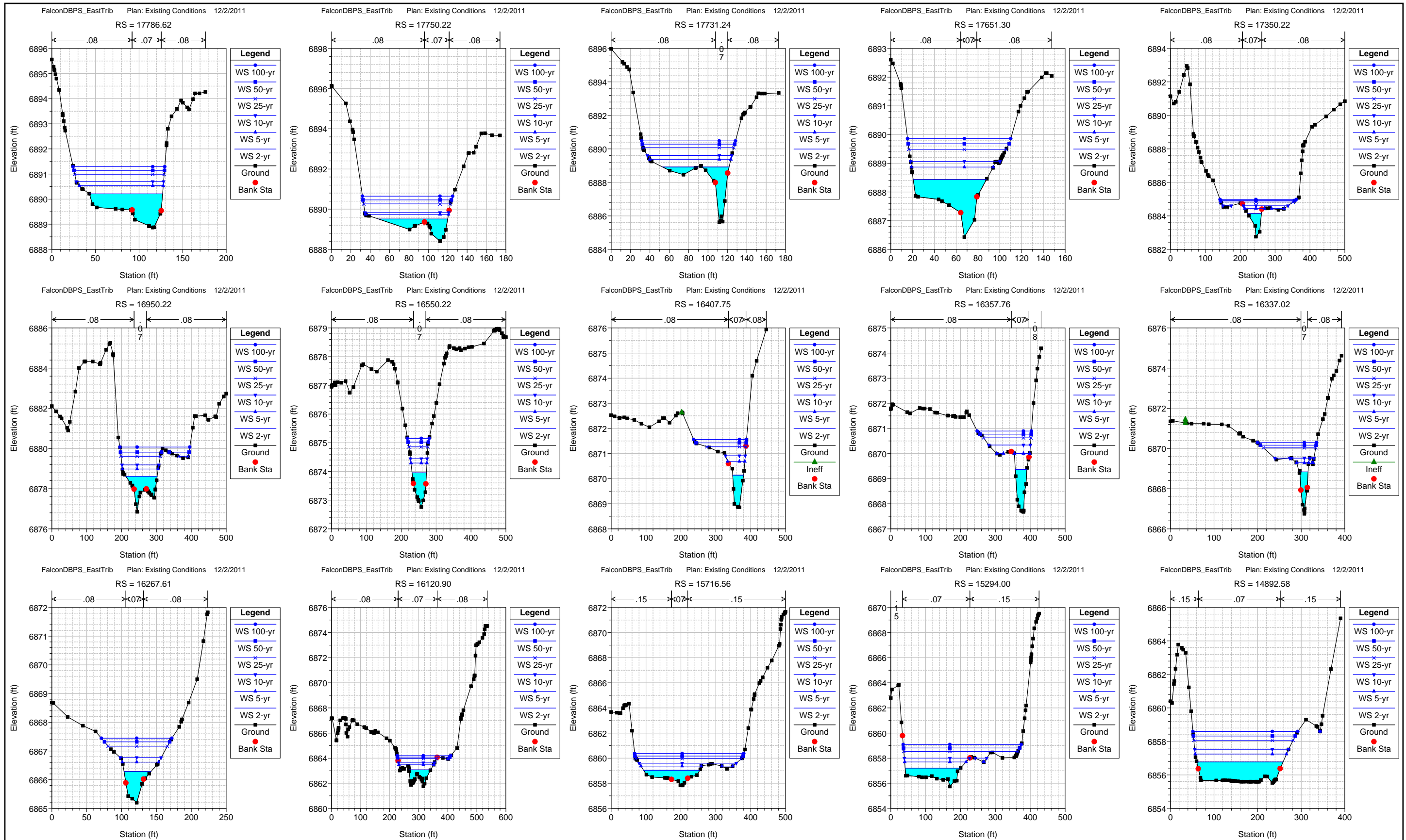


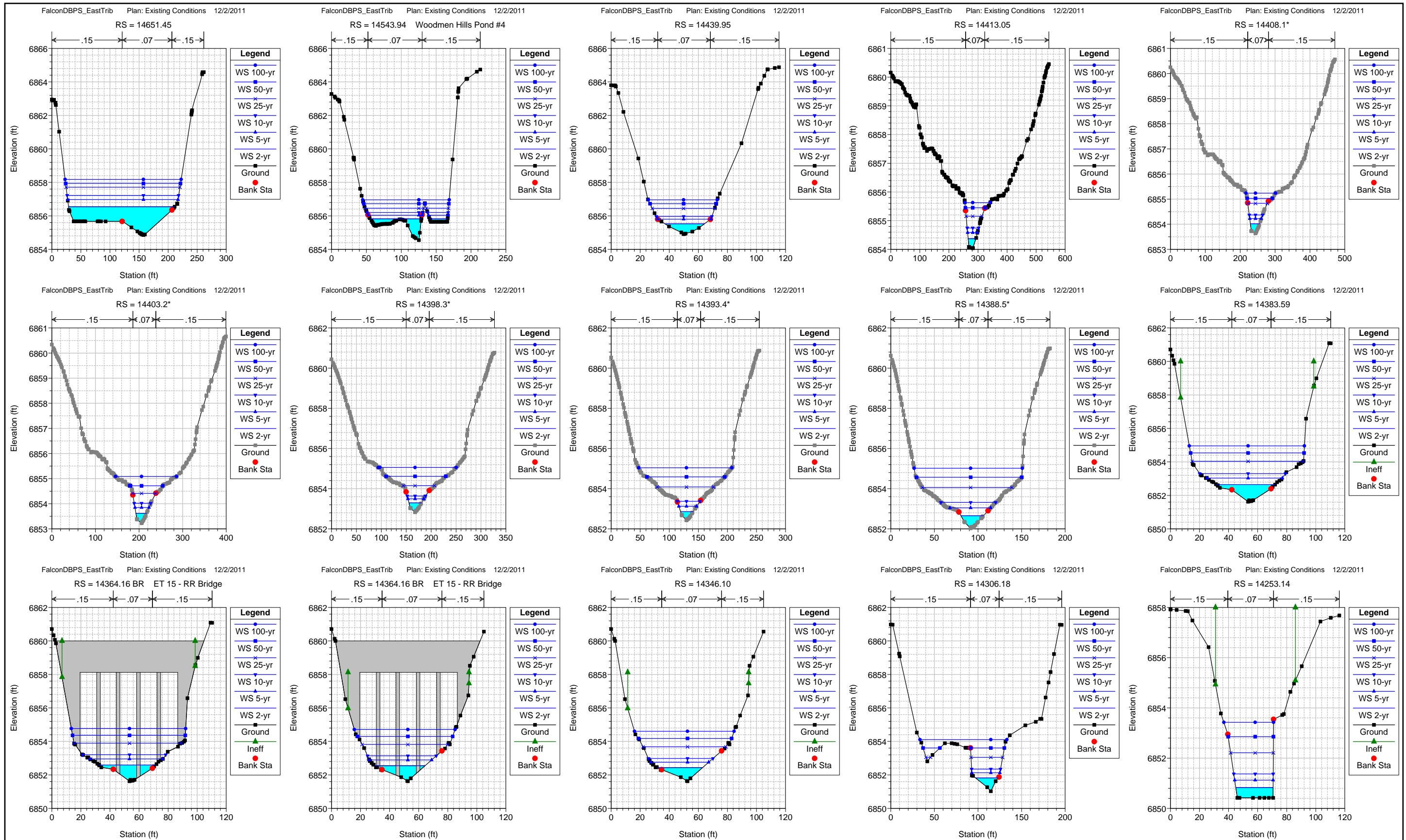


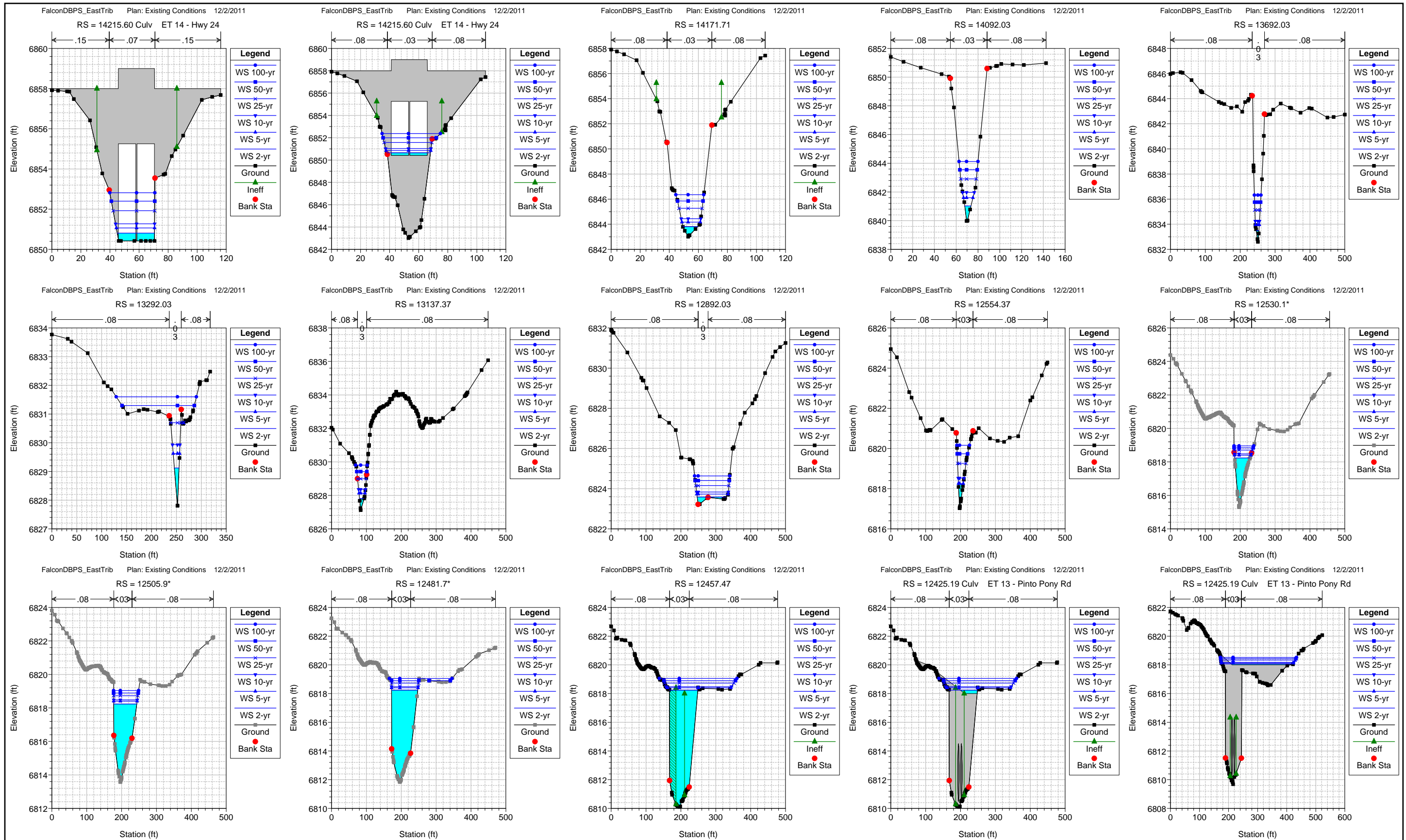


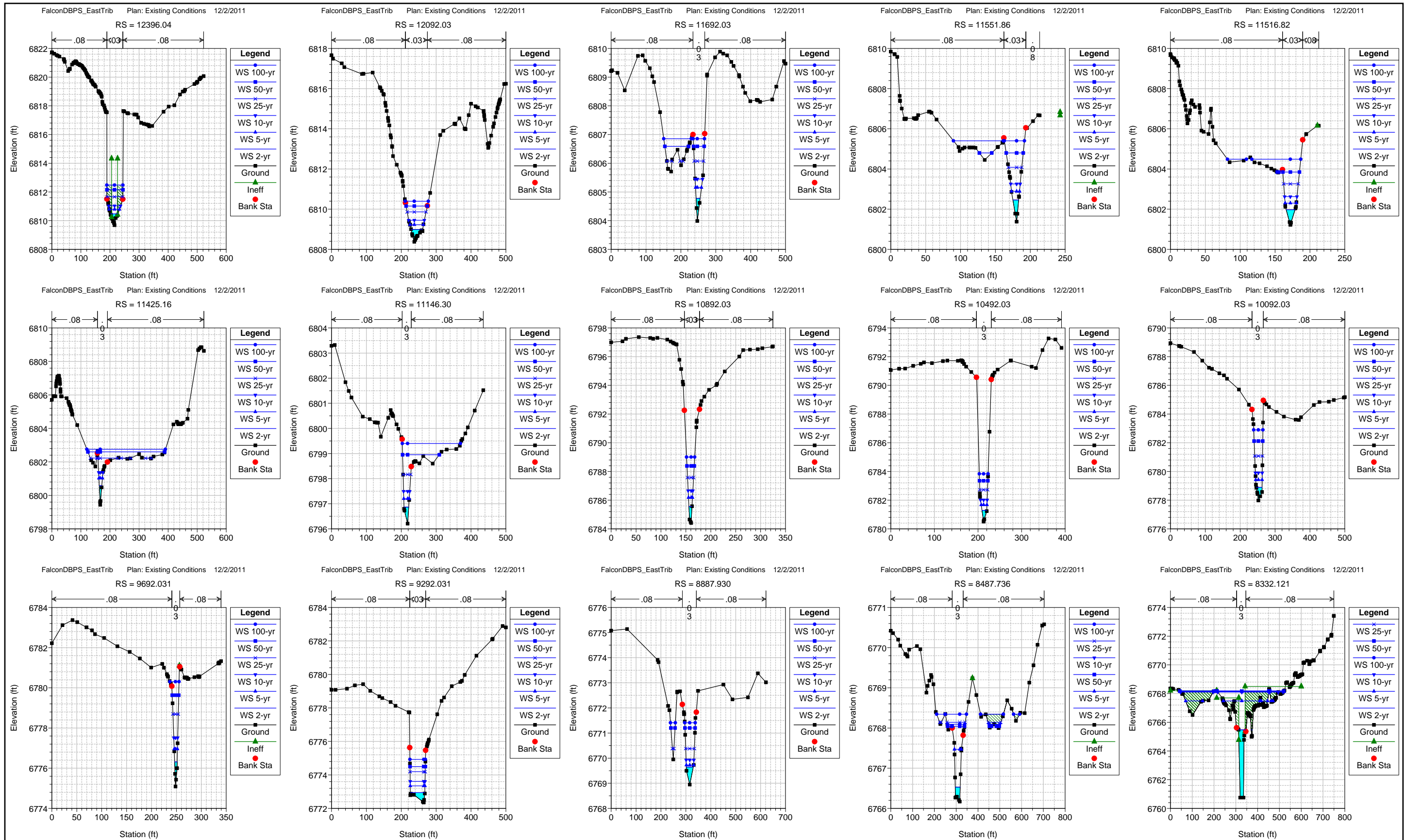


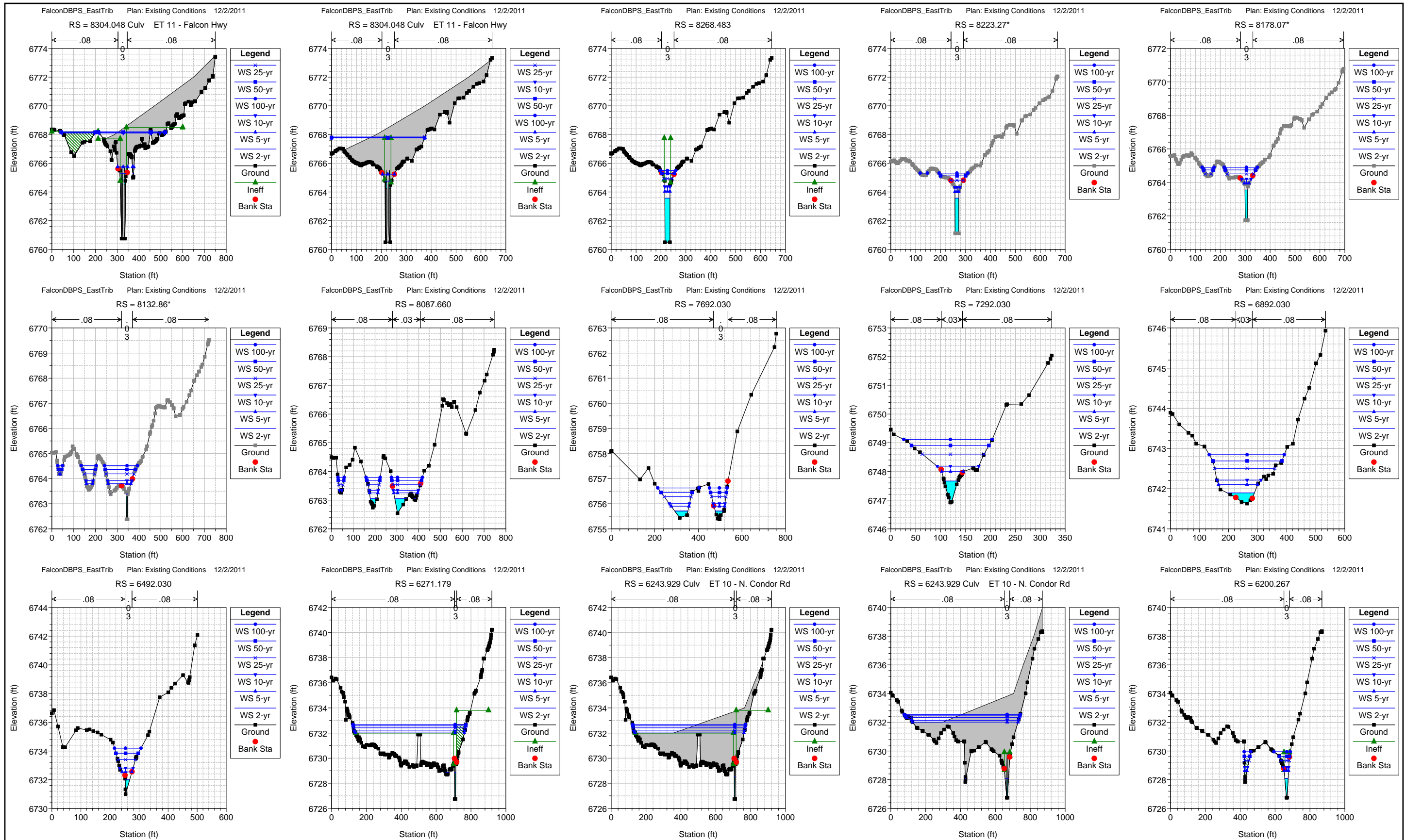


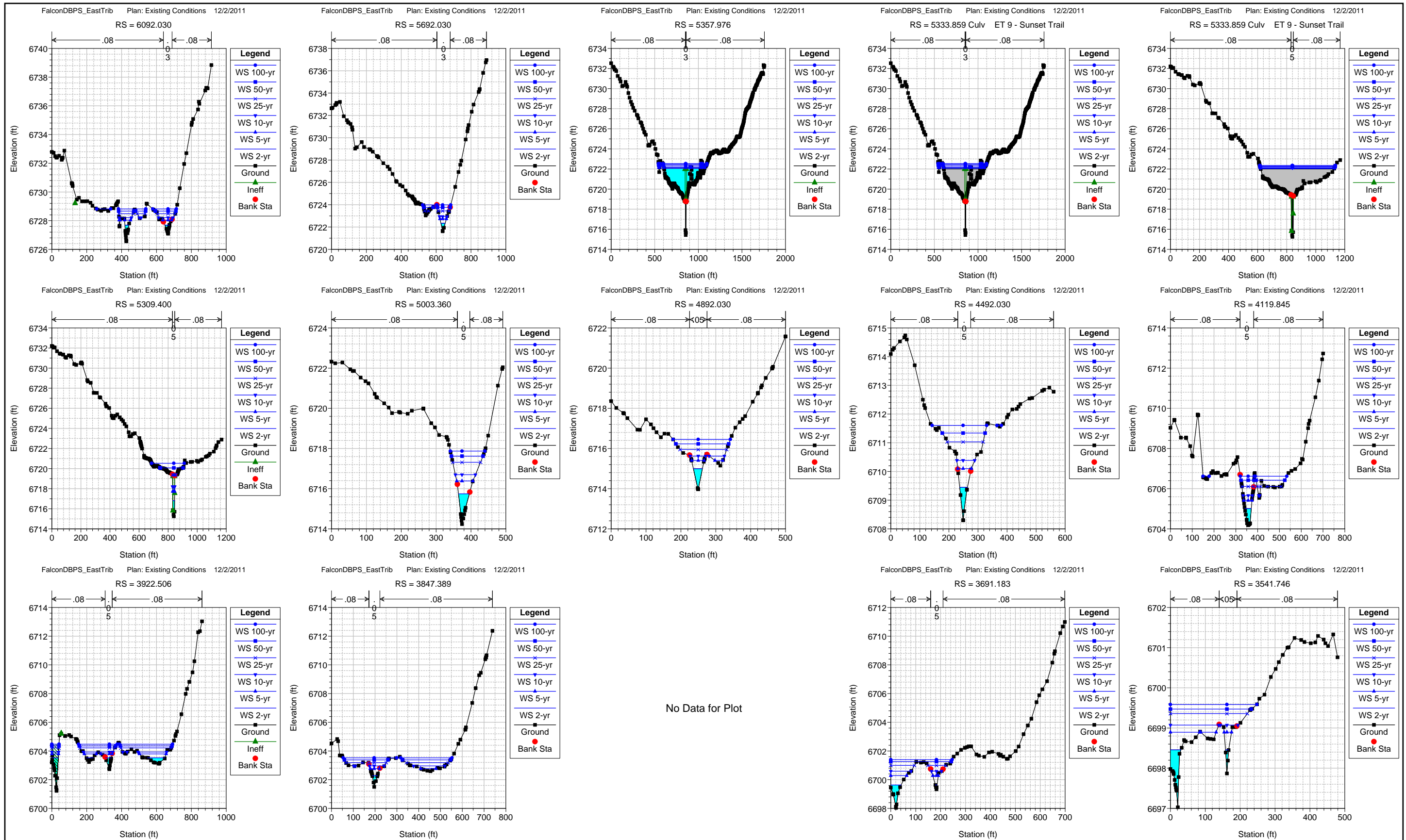


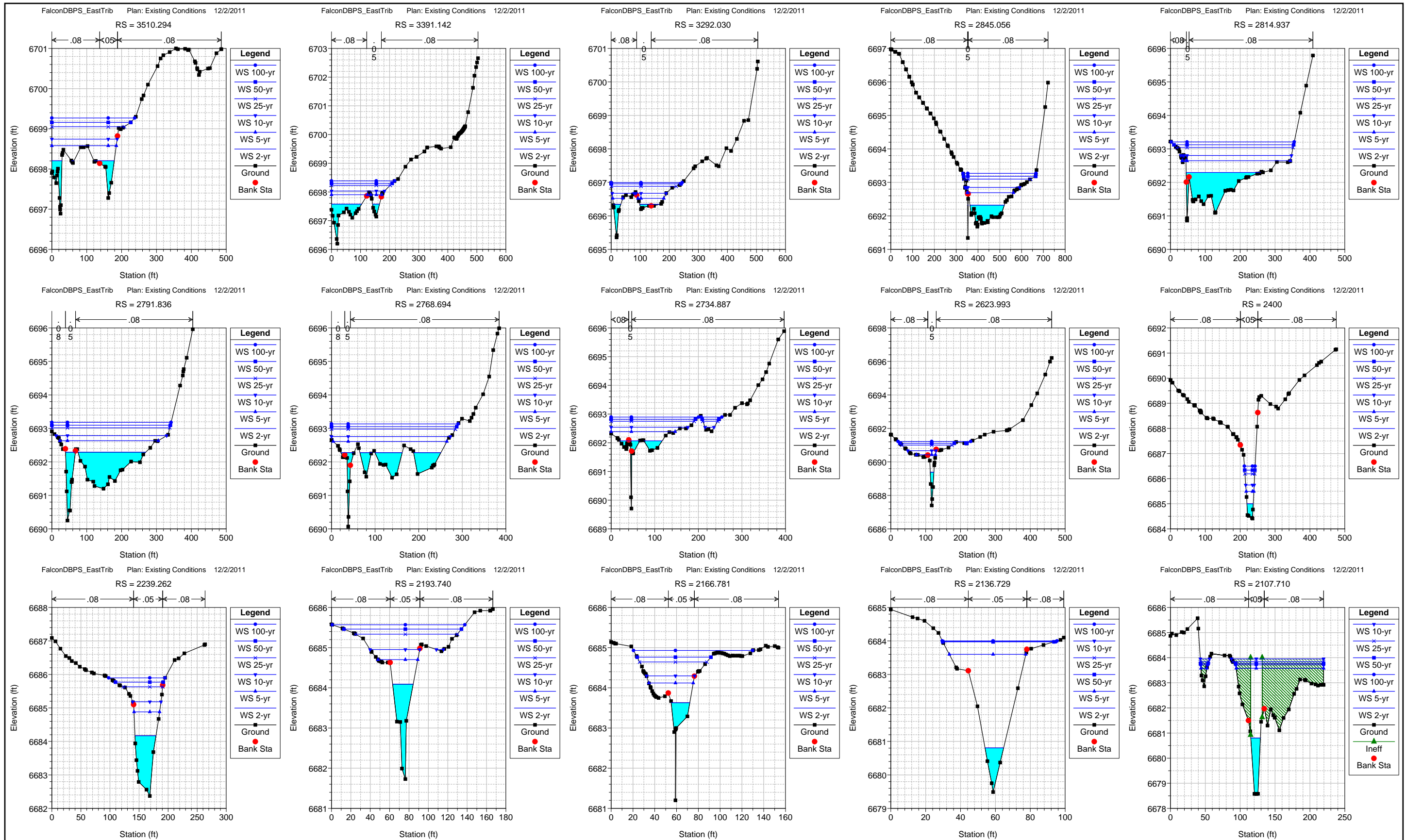


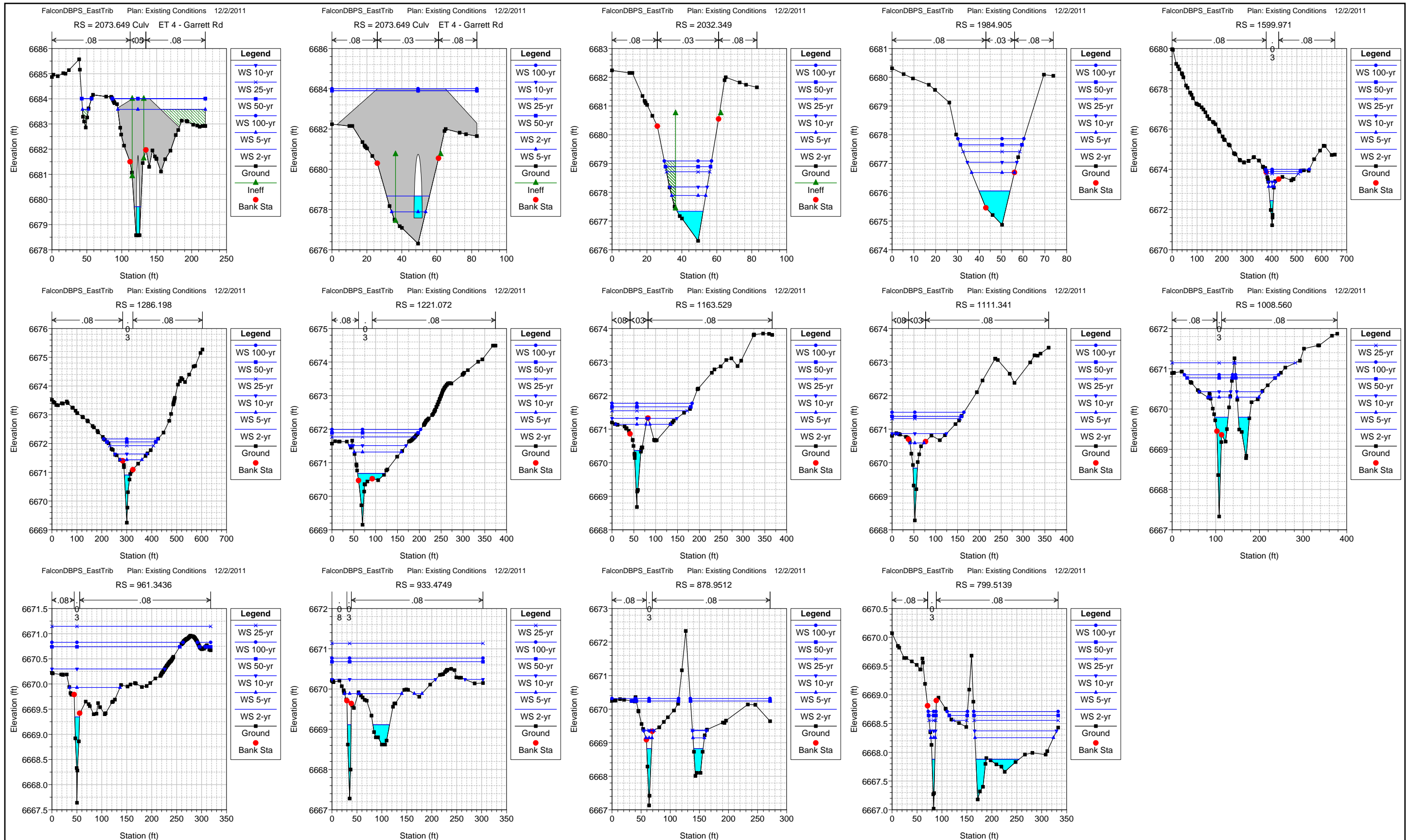




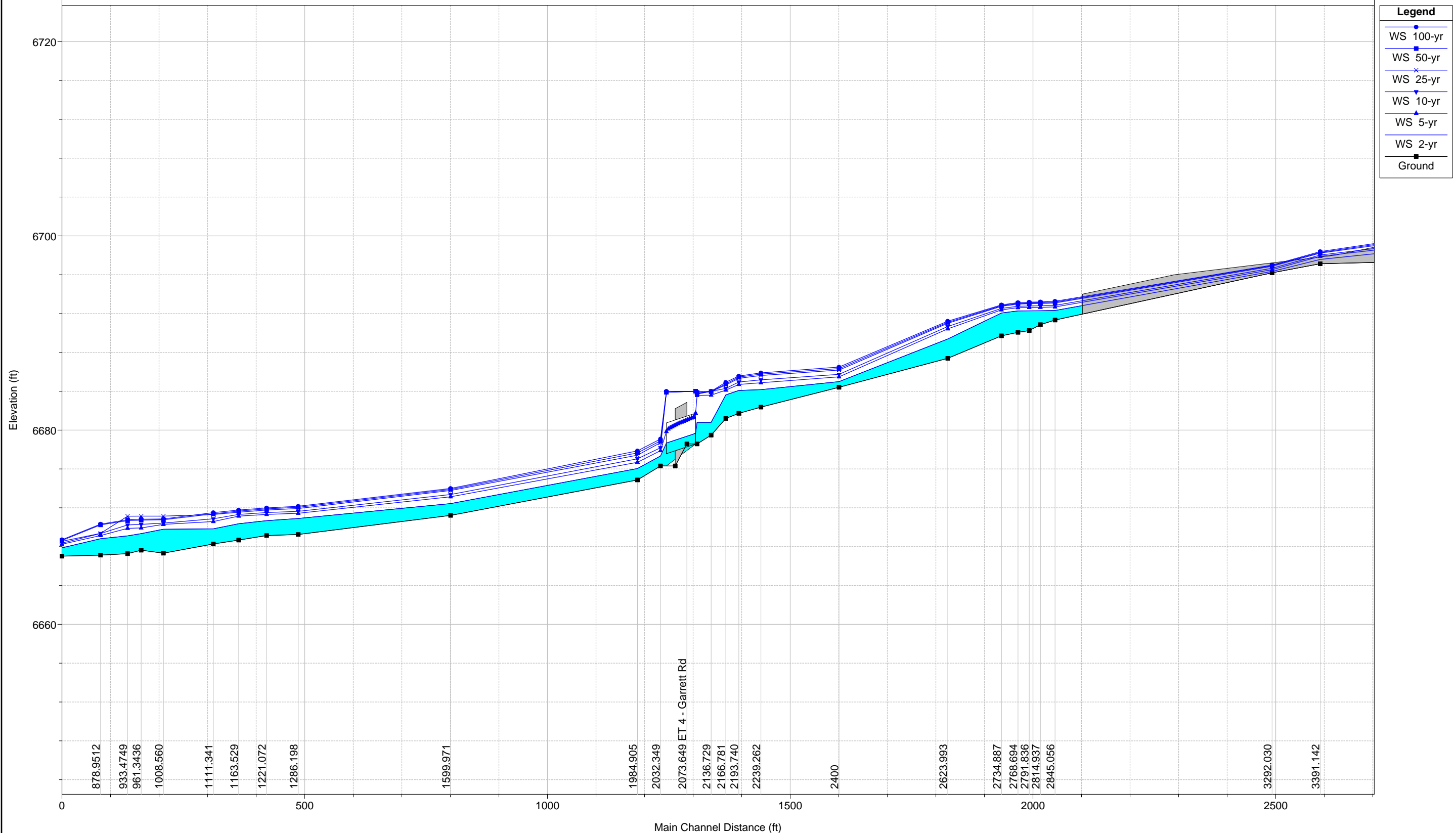




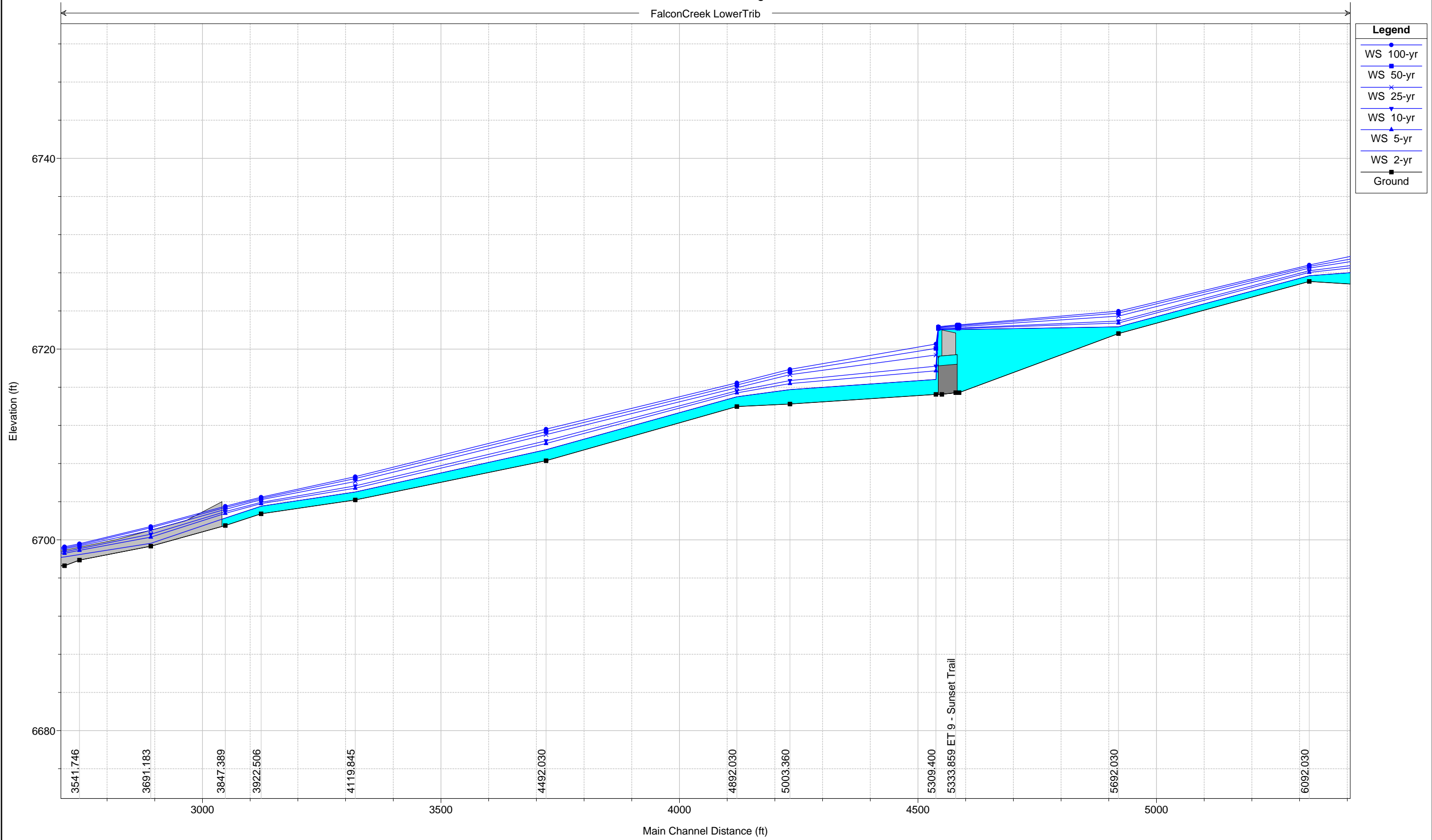




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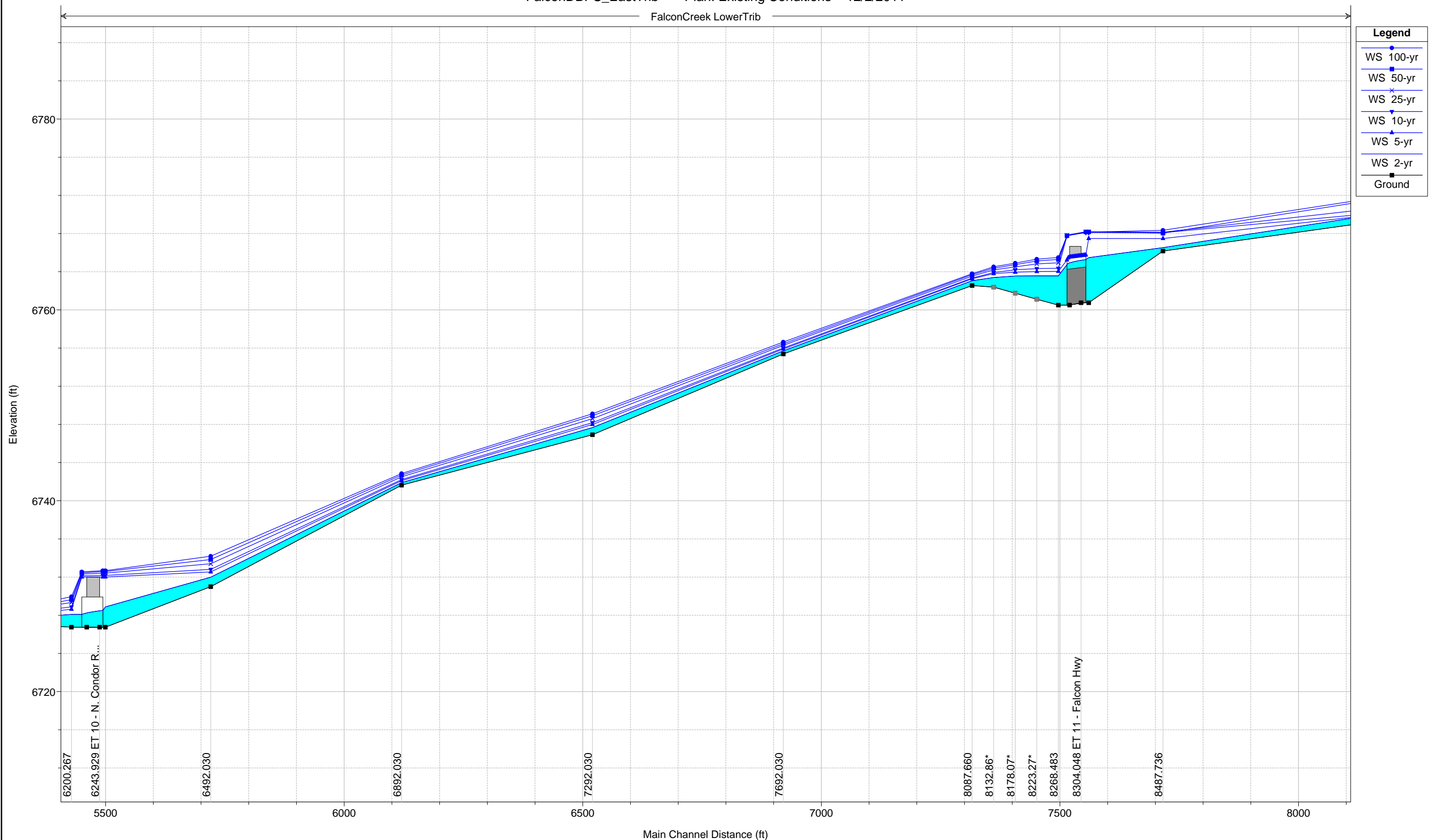


1 in Horiz. = 200 ft 1 in Vert. = 10 ft



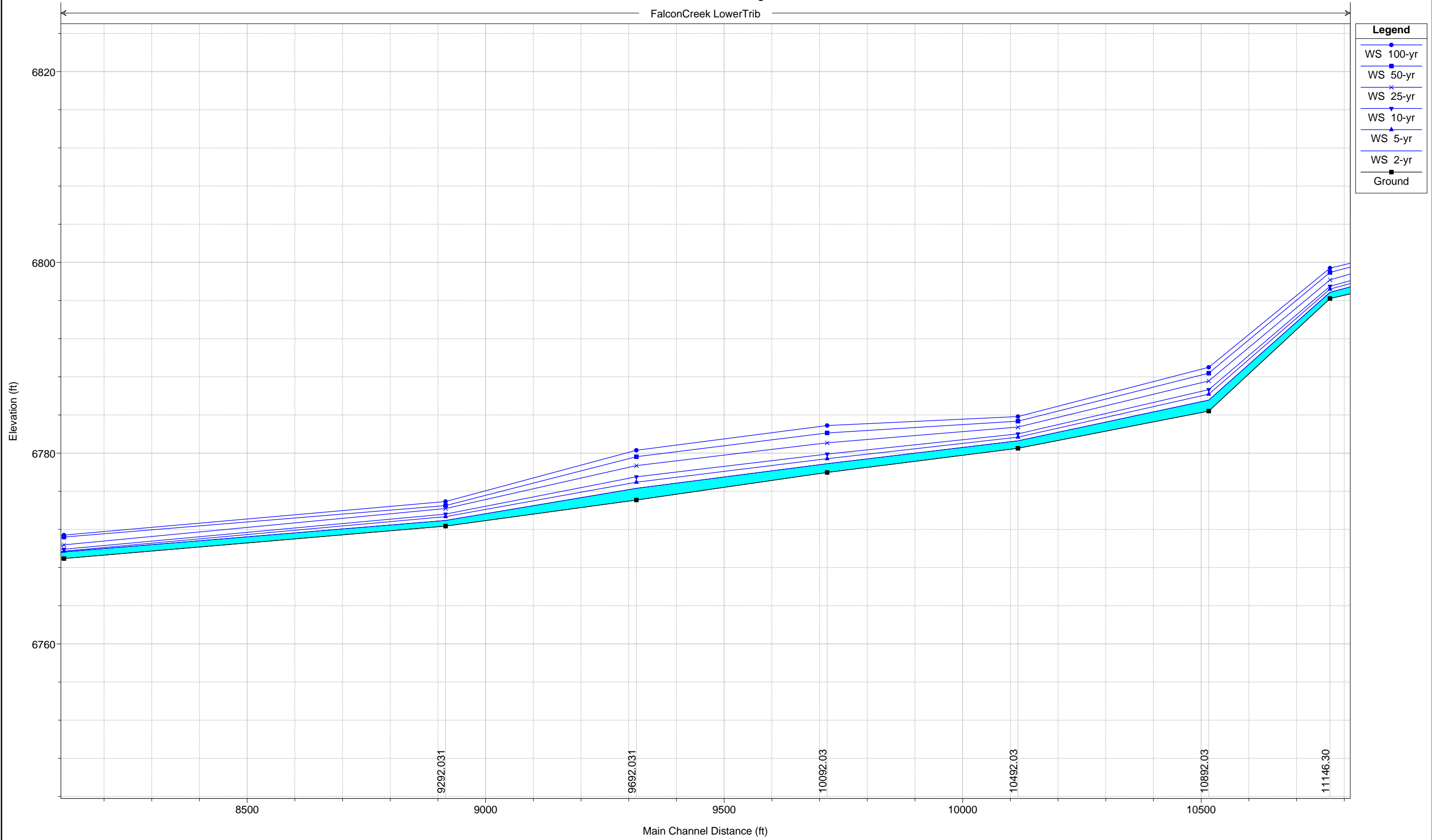
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconCreek LowerTrib



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

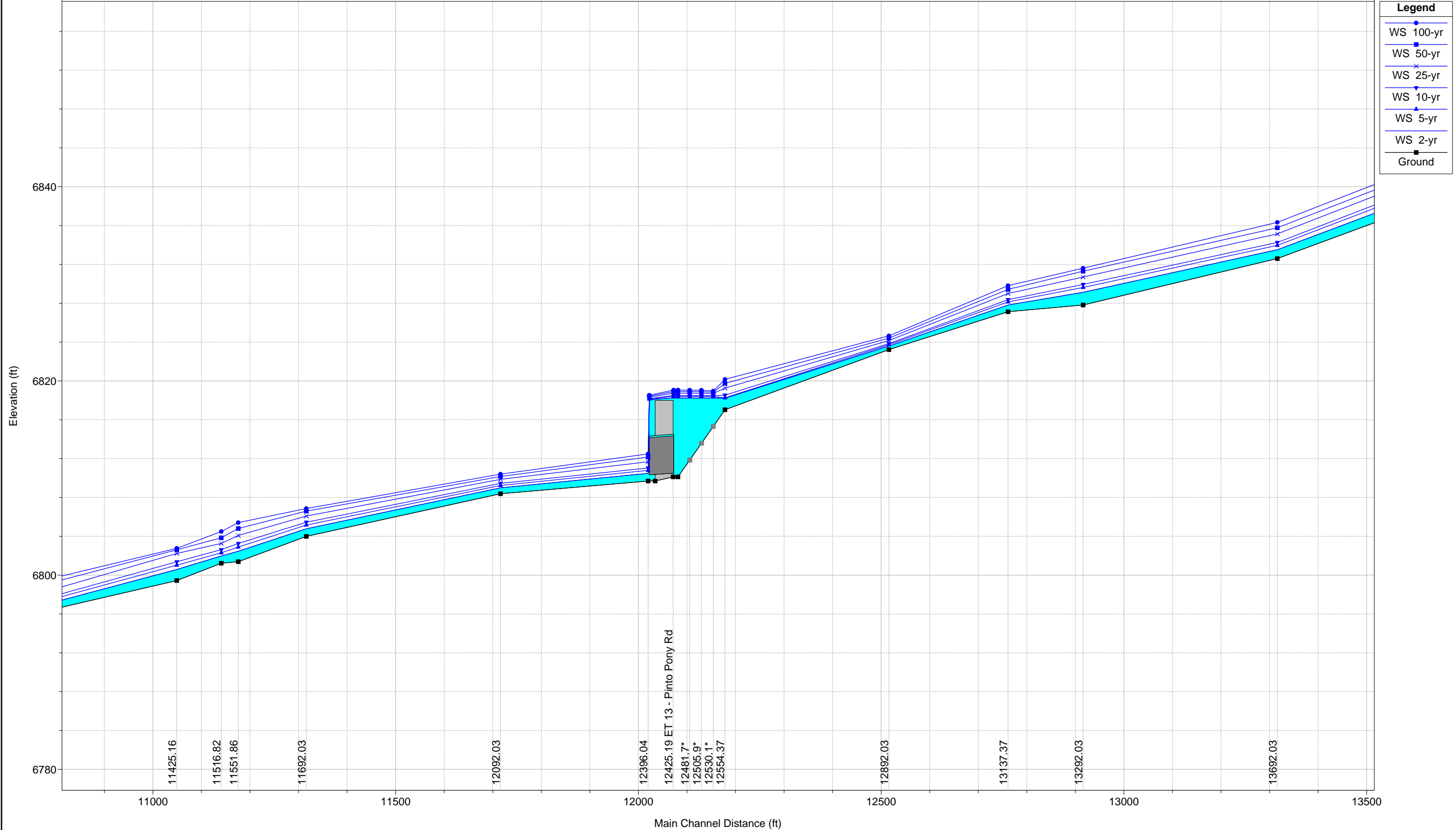
FalconCreek LowerTrib



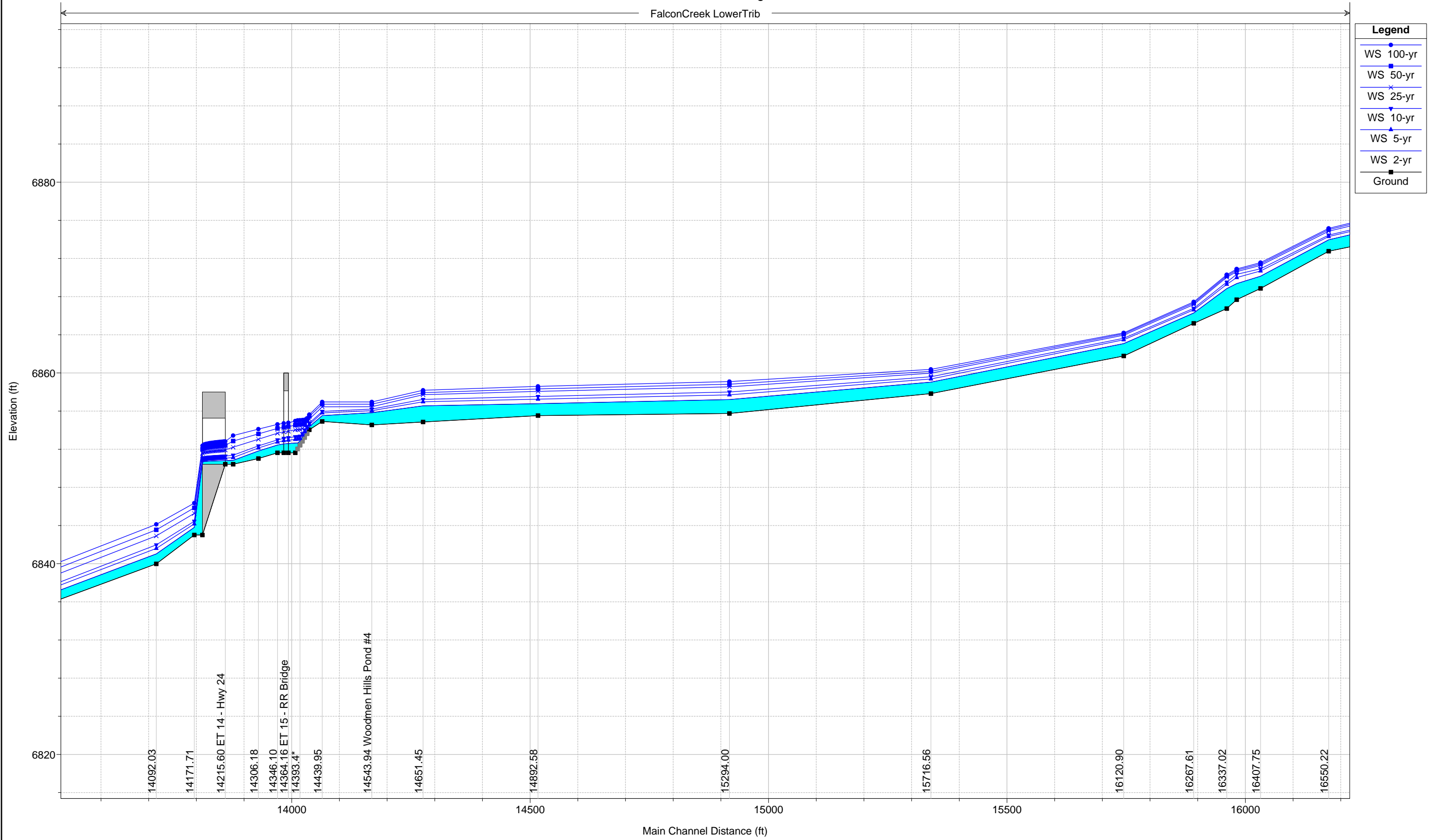
Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

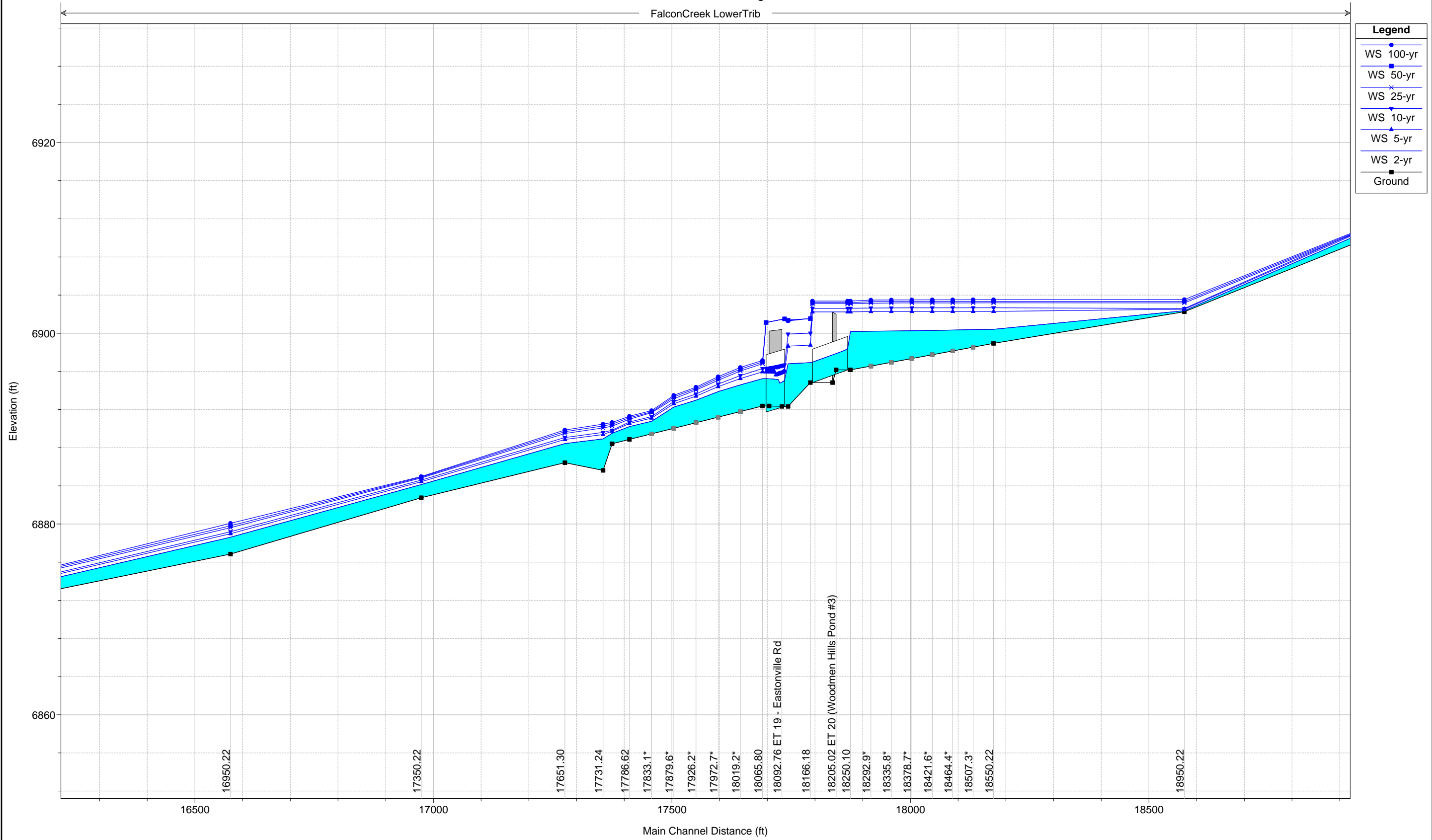
1 in Horiz. = 200 ft 1 in Vert. = 10 ft



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

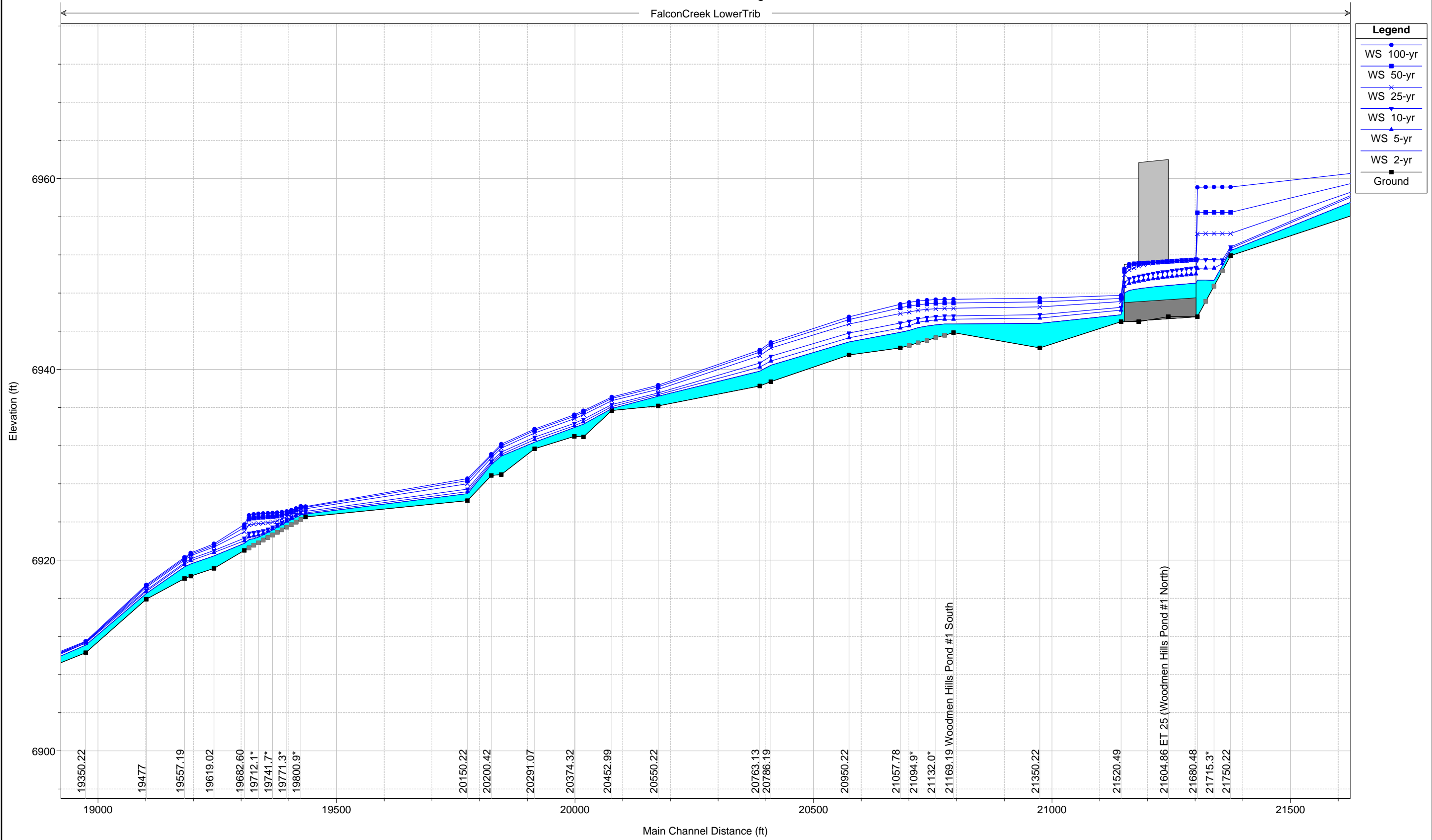


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

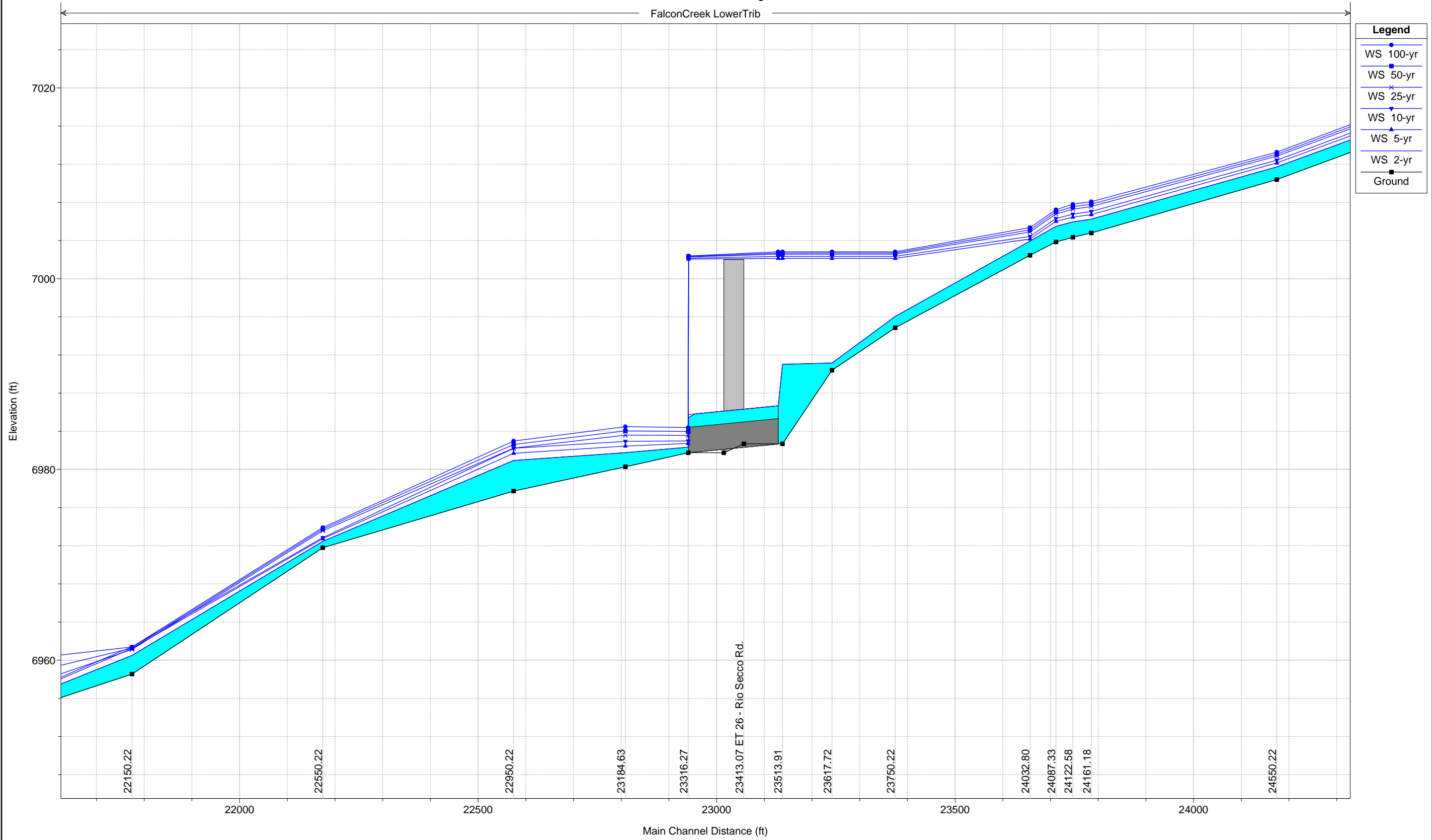


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconCreek LowerTrib



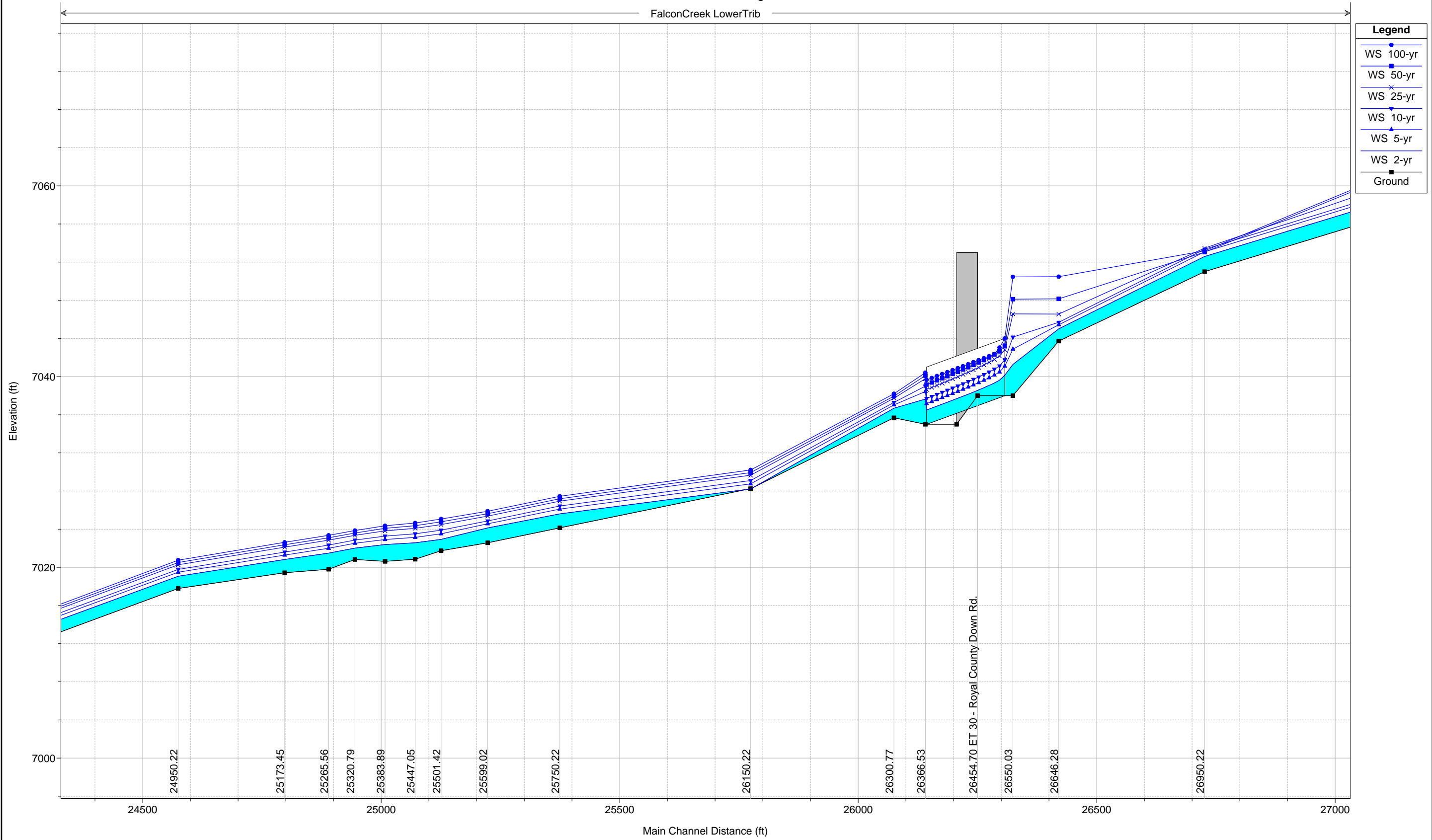
1 in Horiz. = 200 ft 1 in Vert. = 10 ft



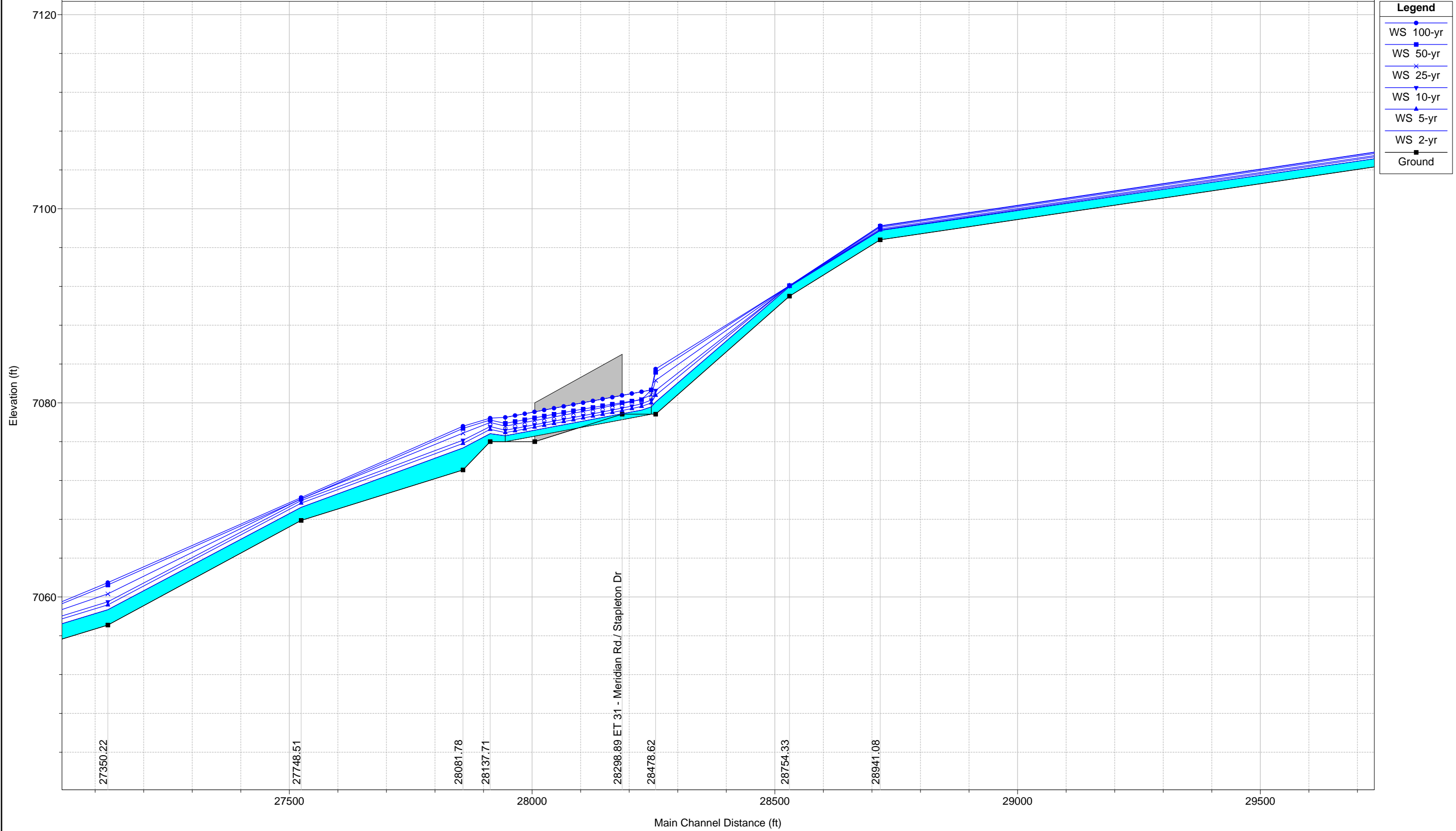
Legend

- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

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

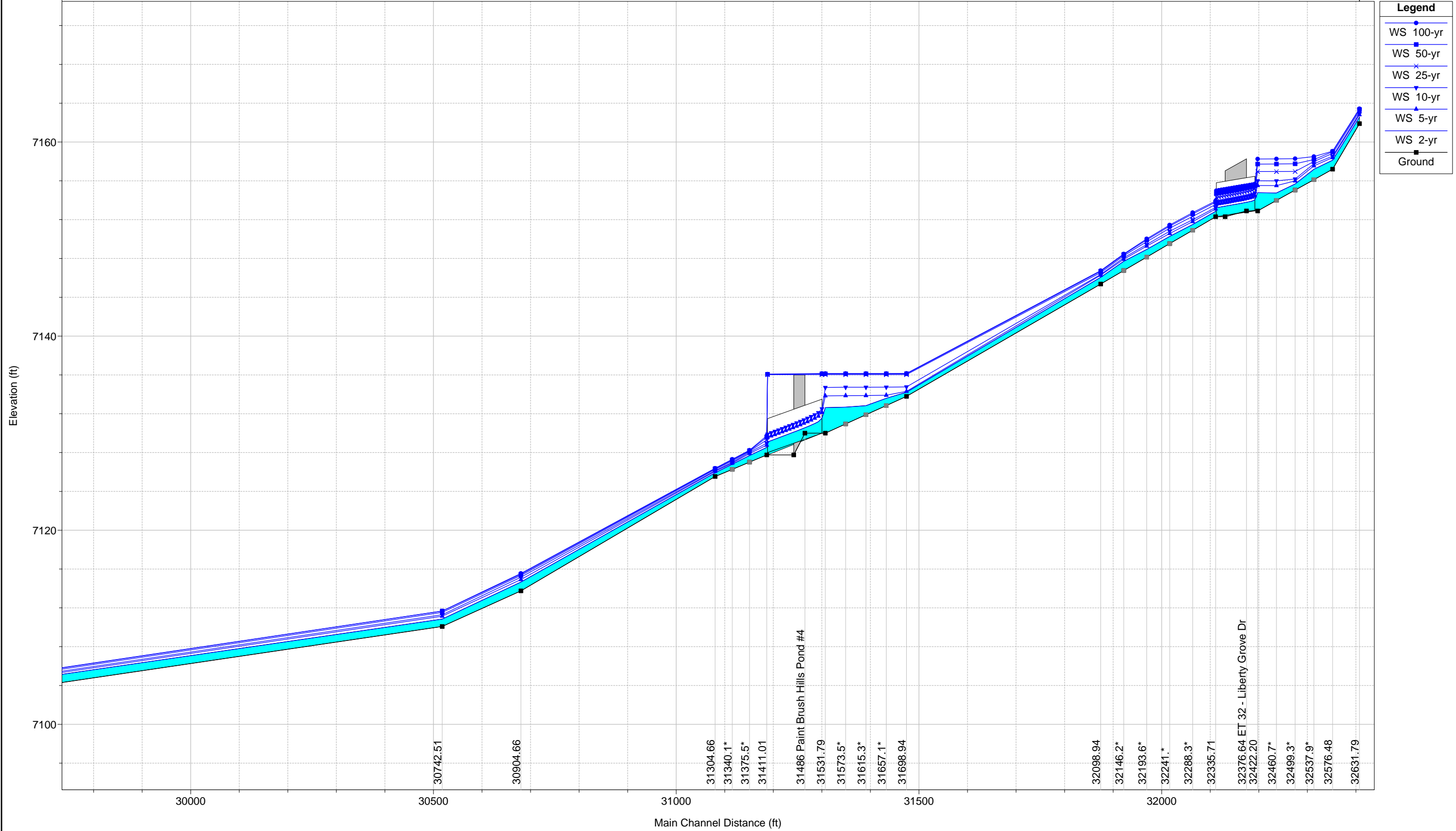


1 in Horiz. = 200 ft 1 in Vert. = 10 ft



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

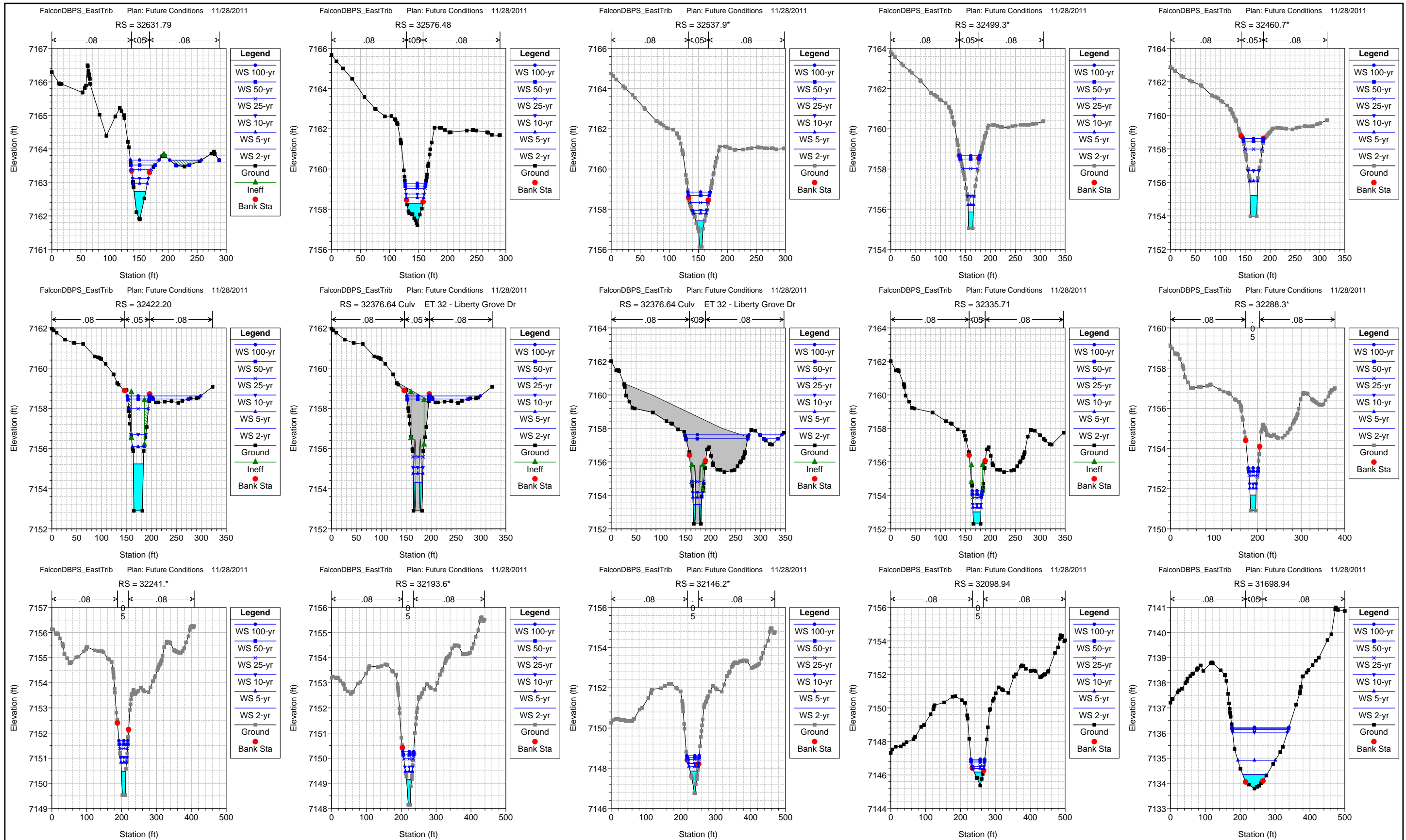
FalconCreek LowerTrib

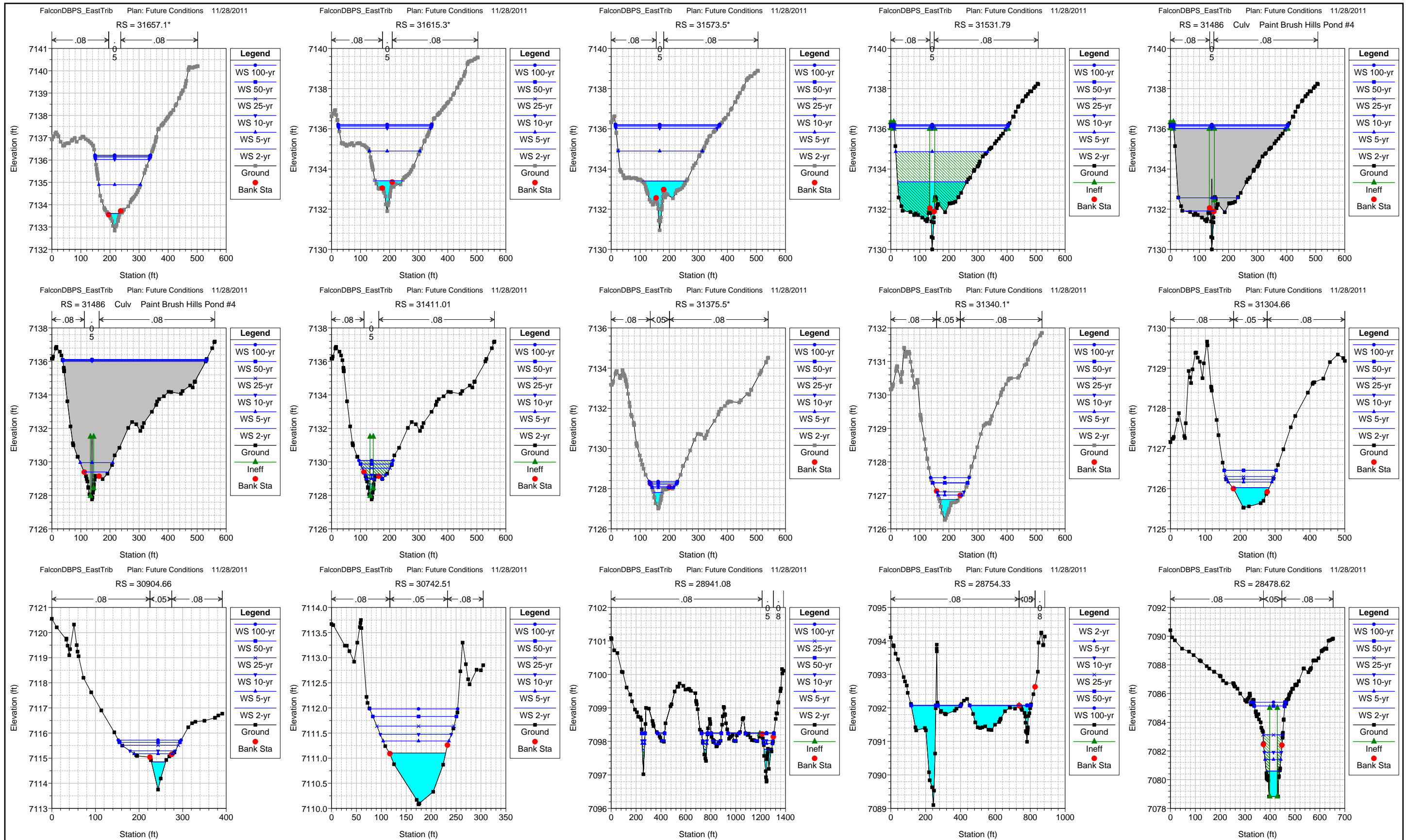


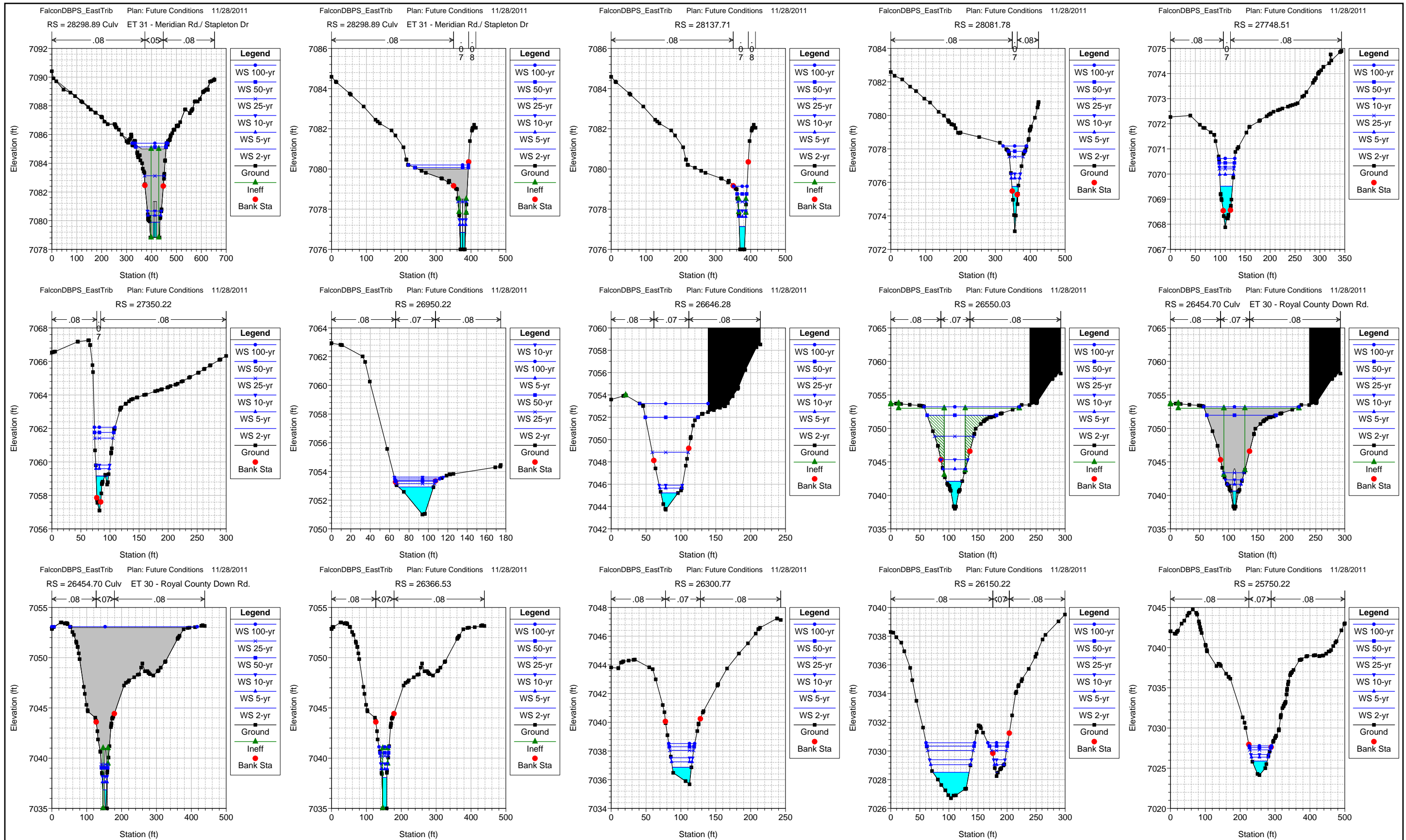
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

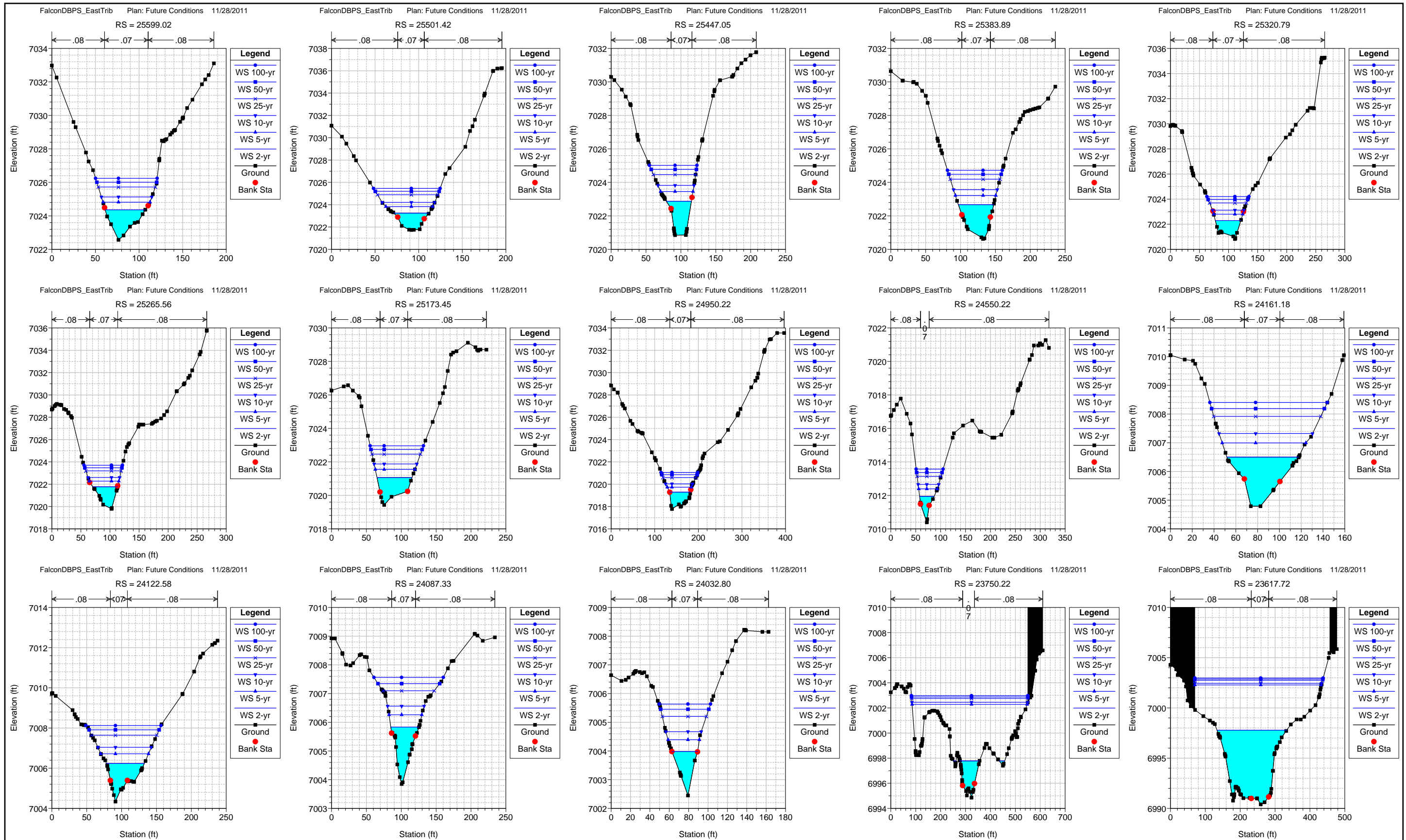
East Tributary – Future Conditions

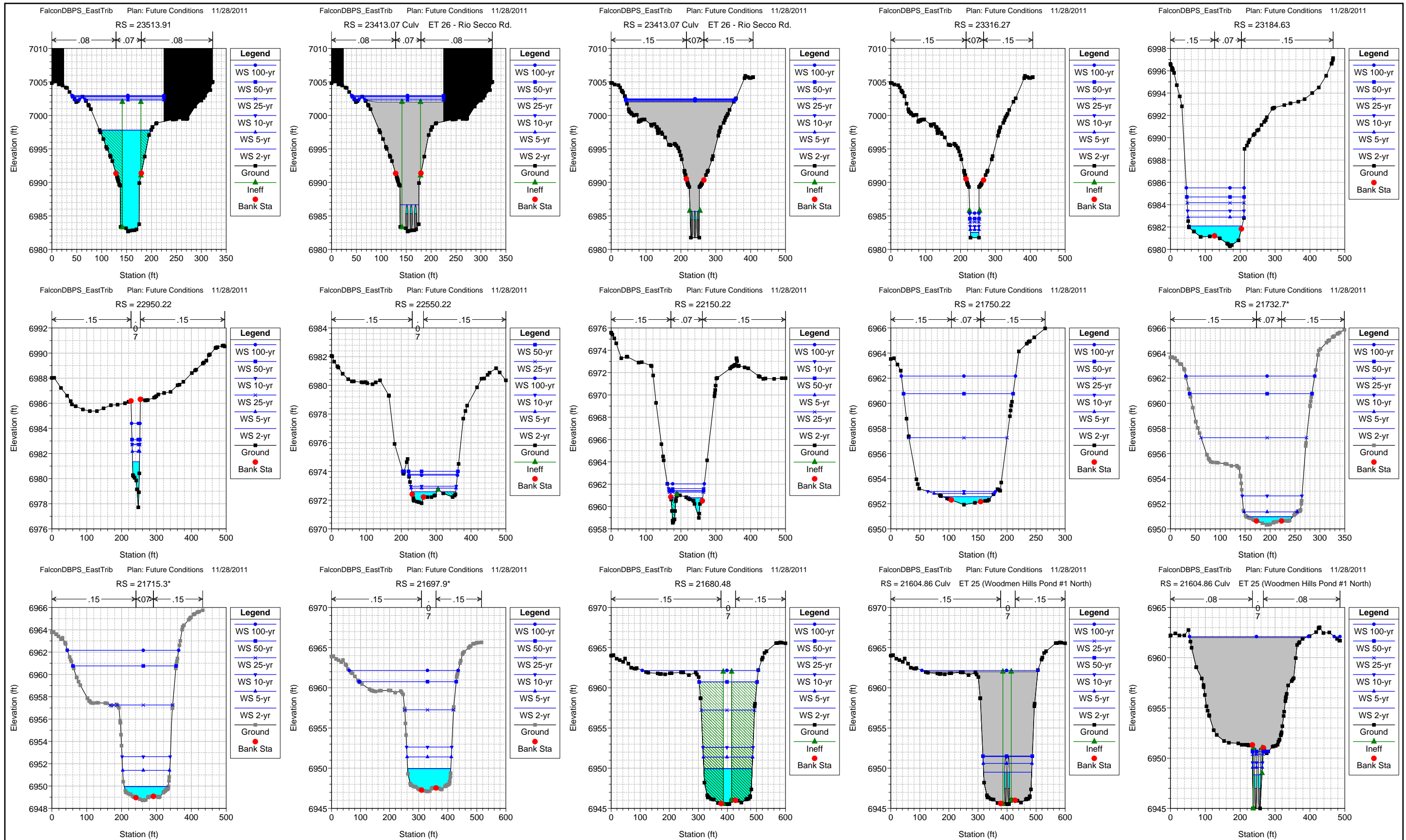
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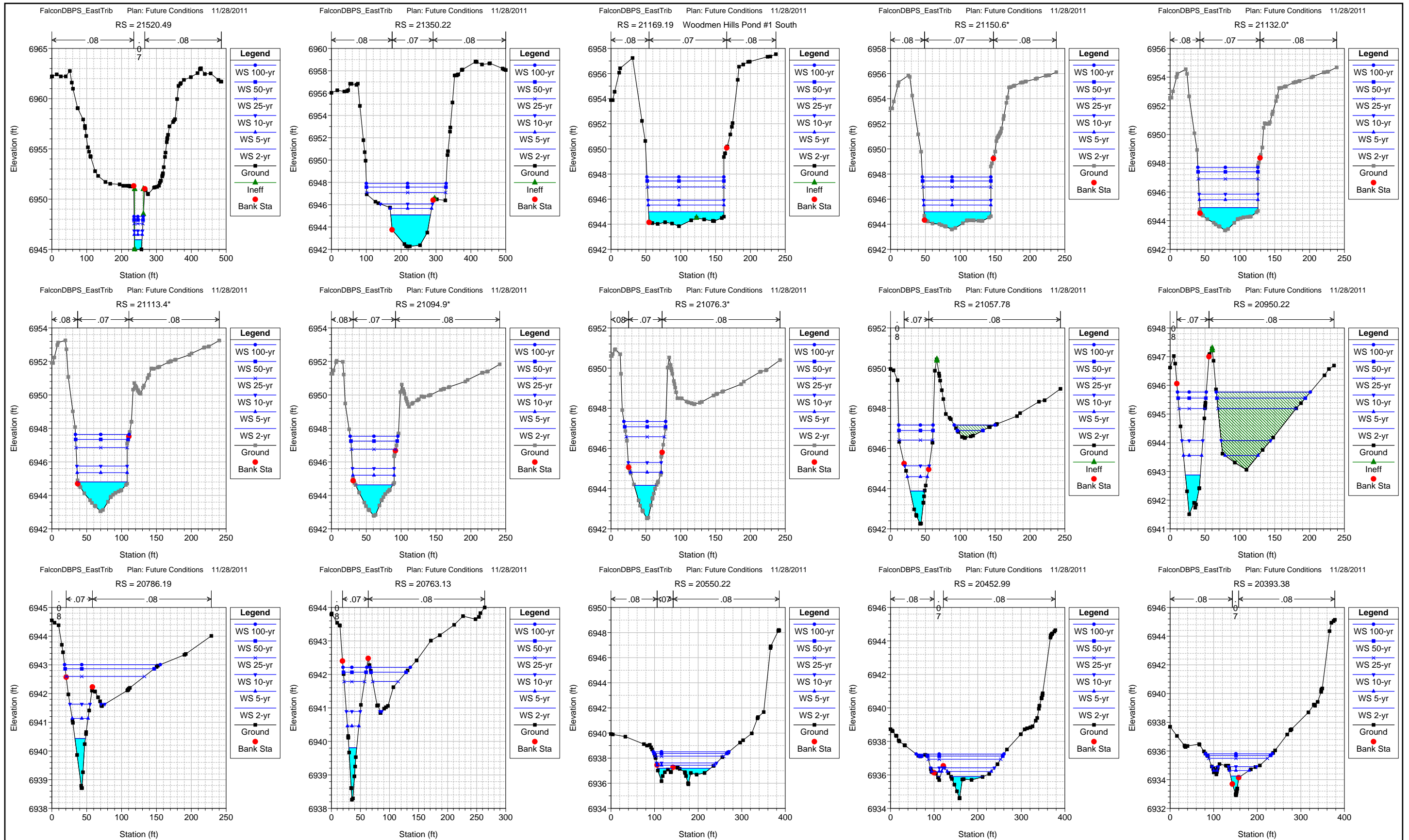


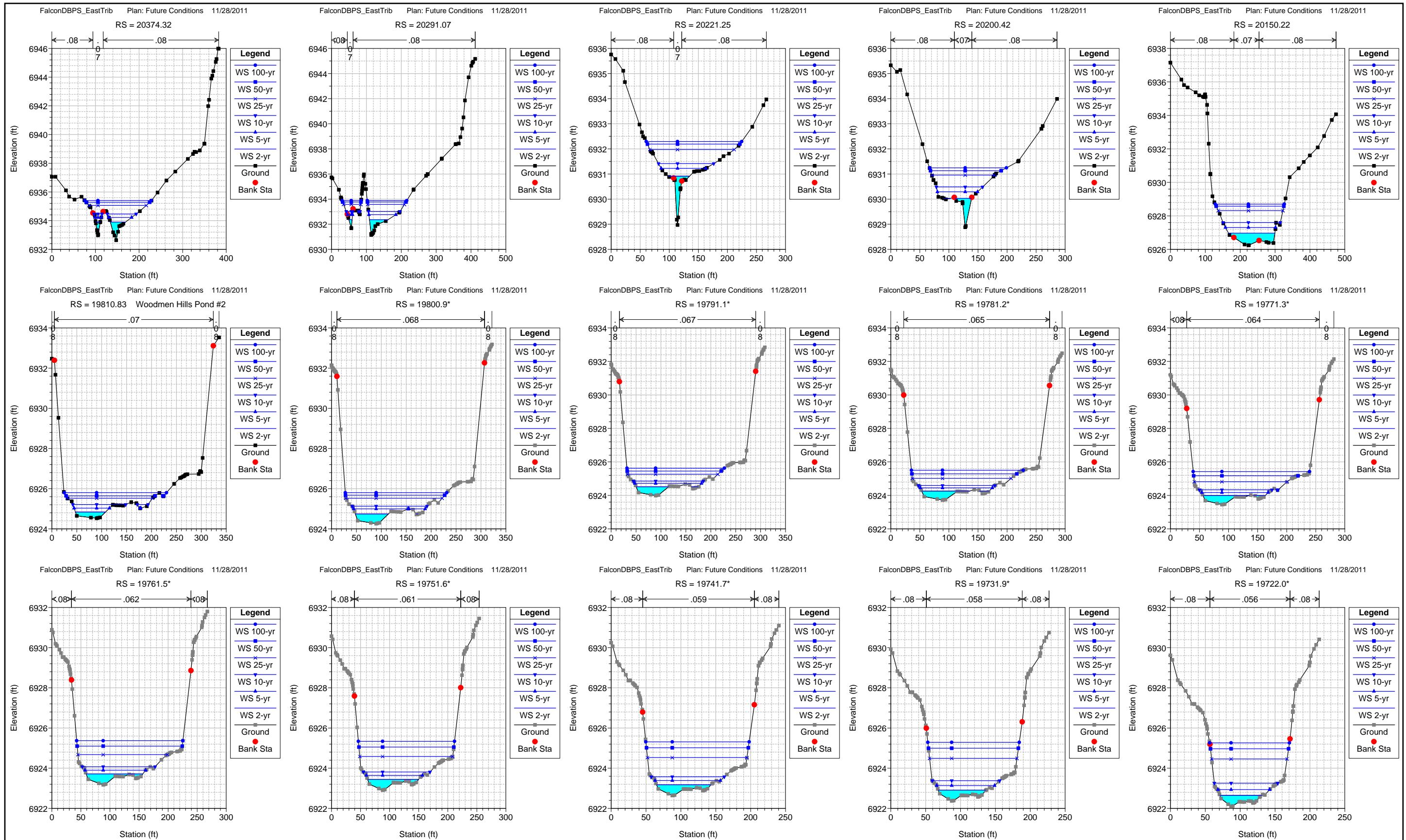


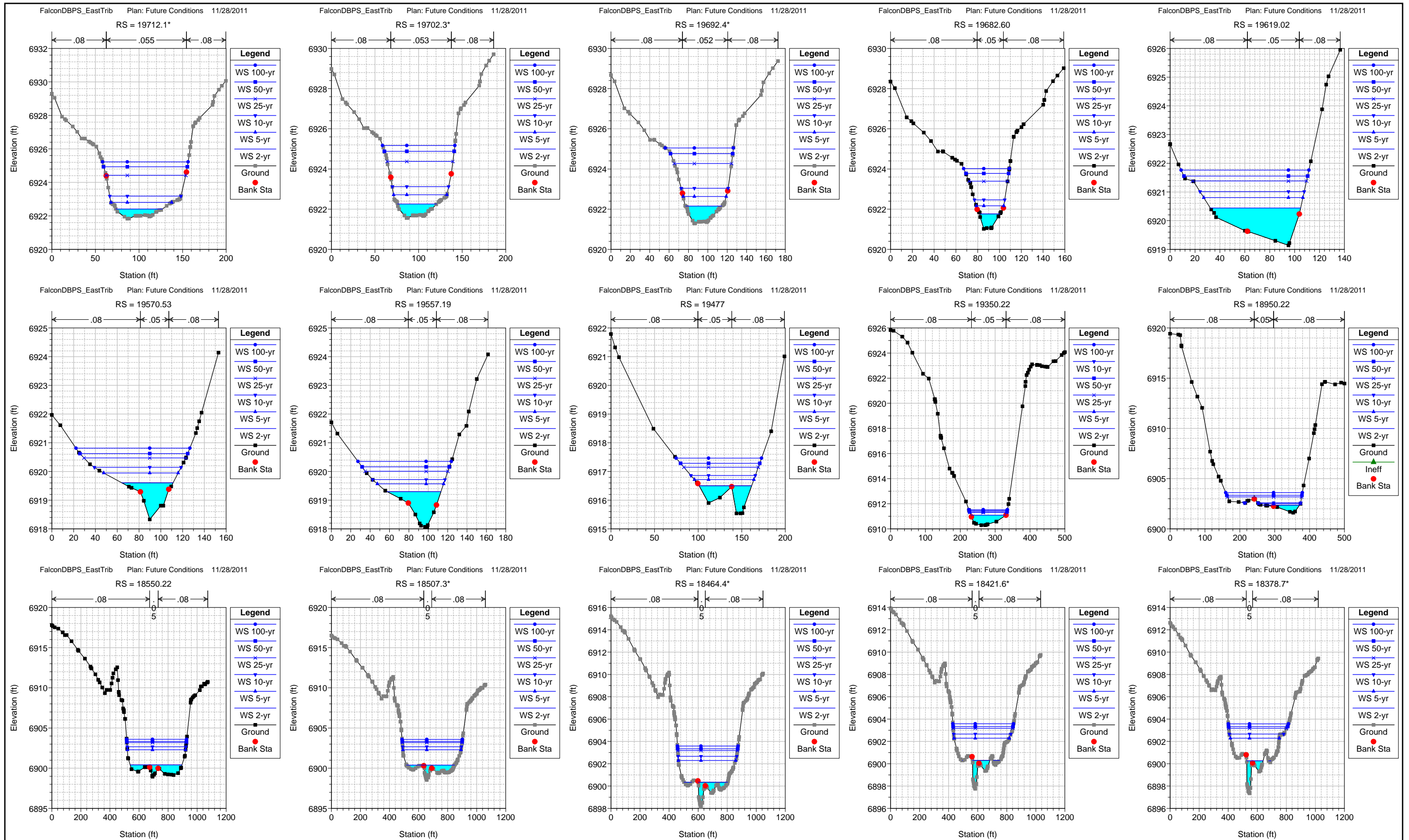


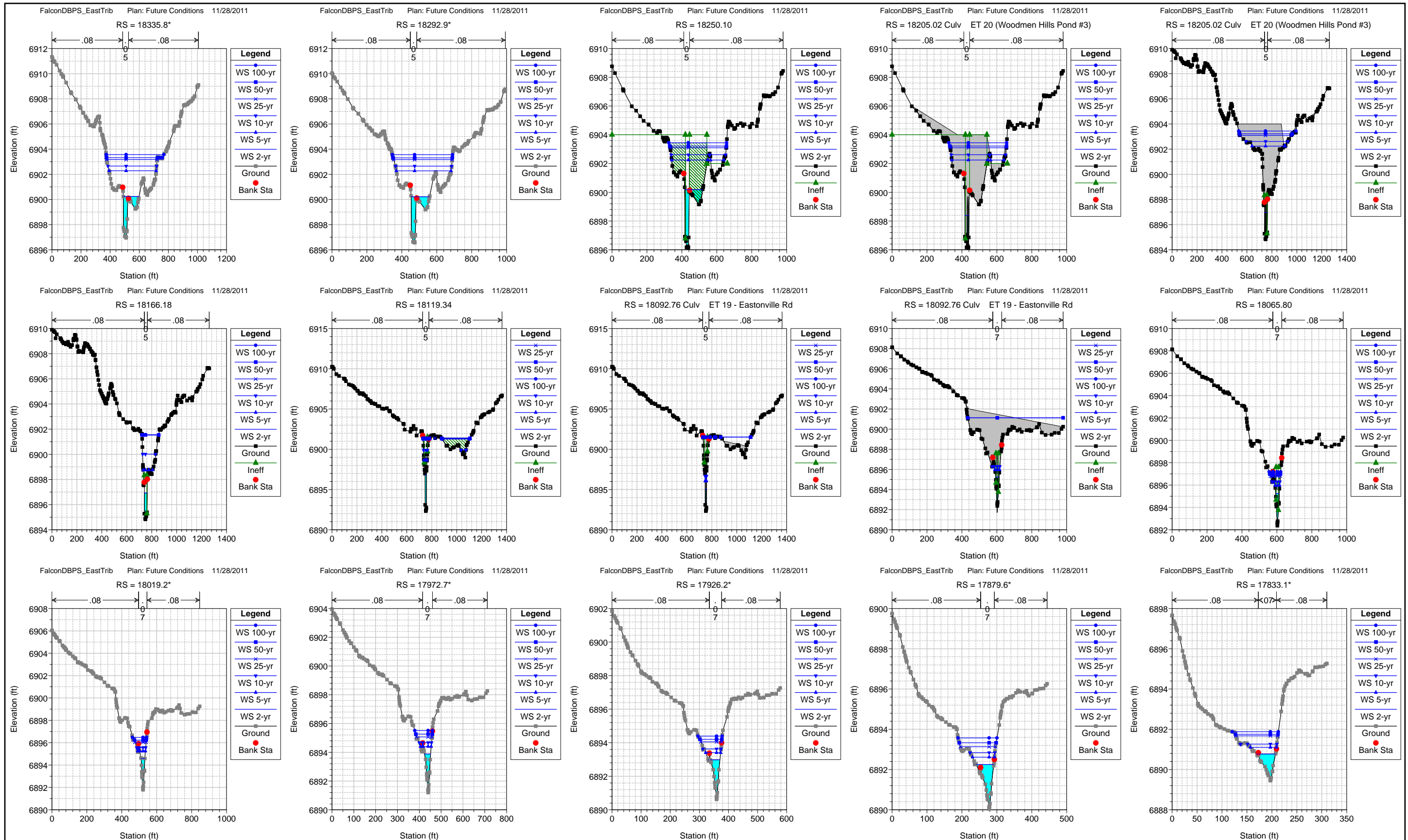


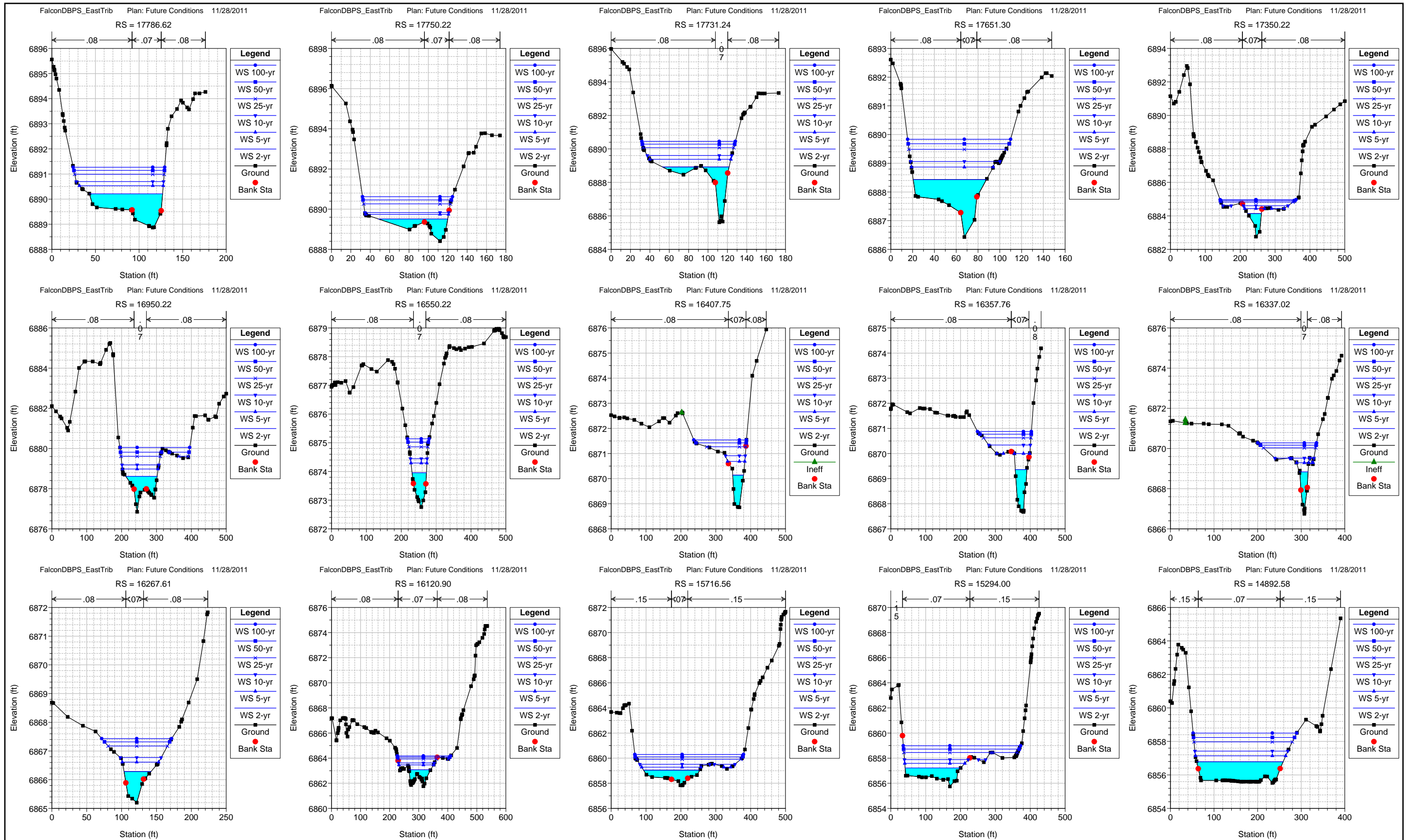


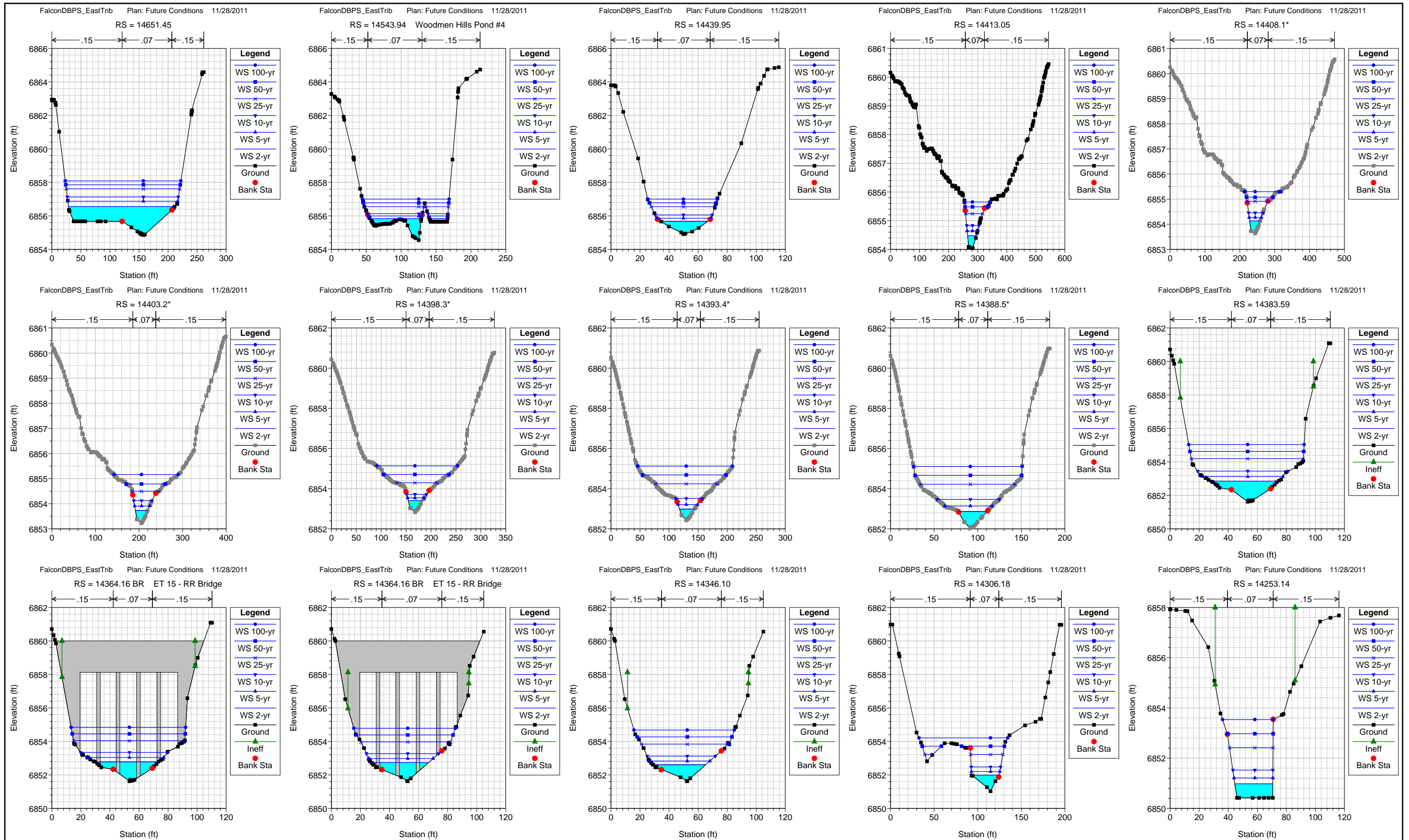


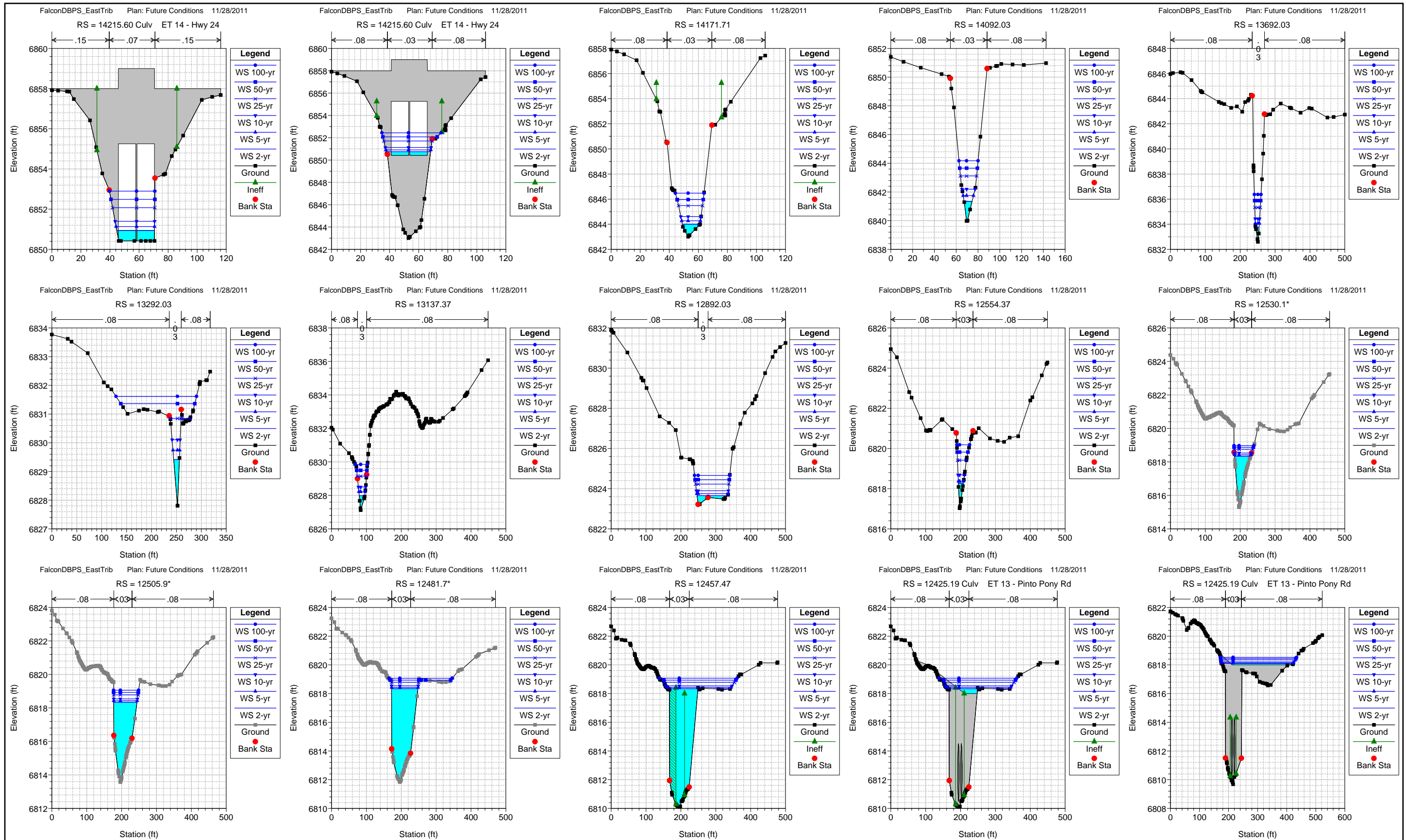


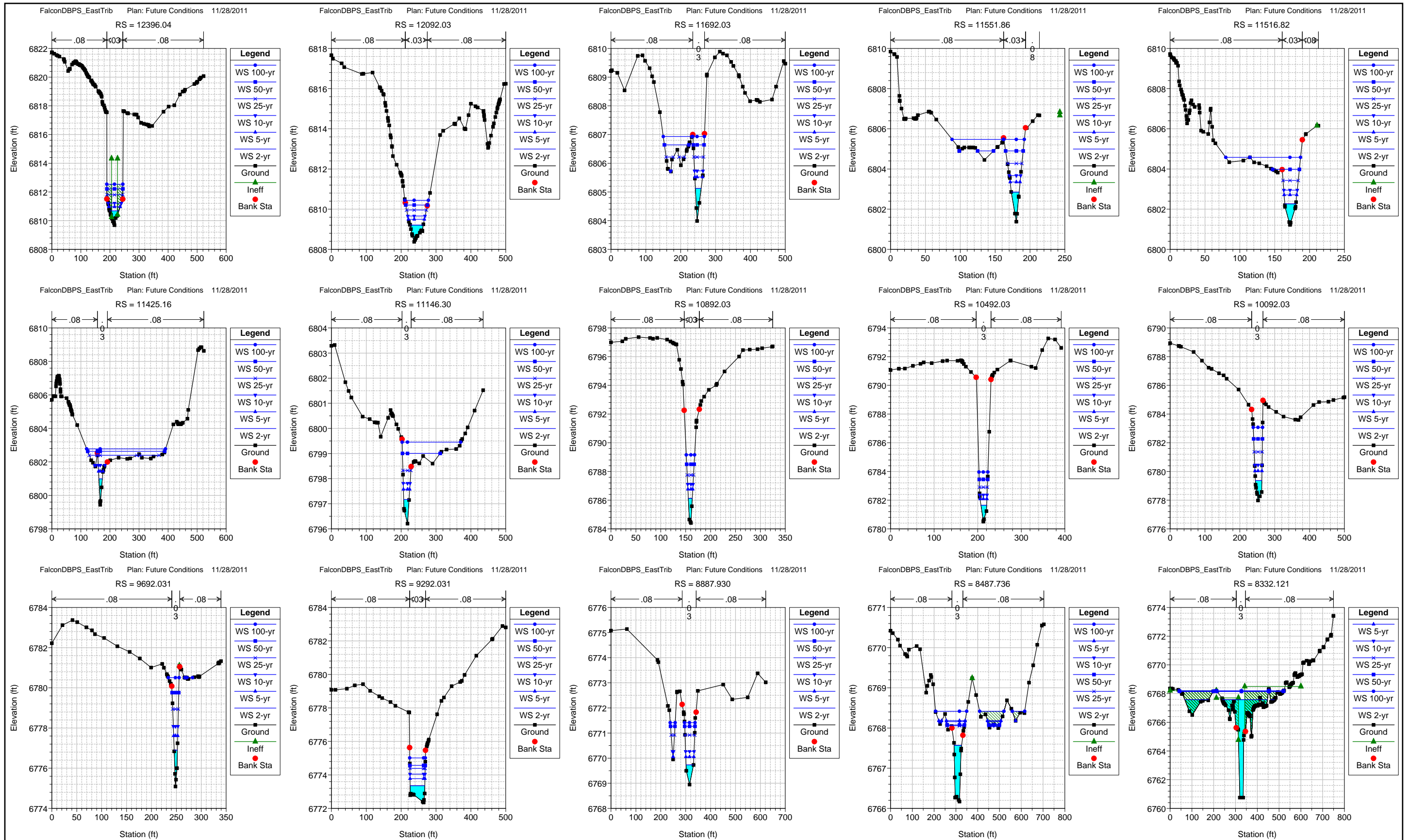


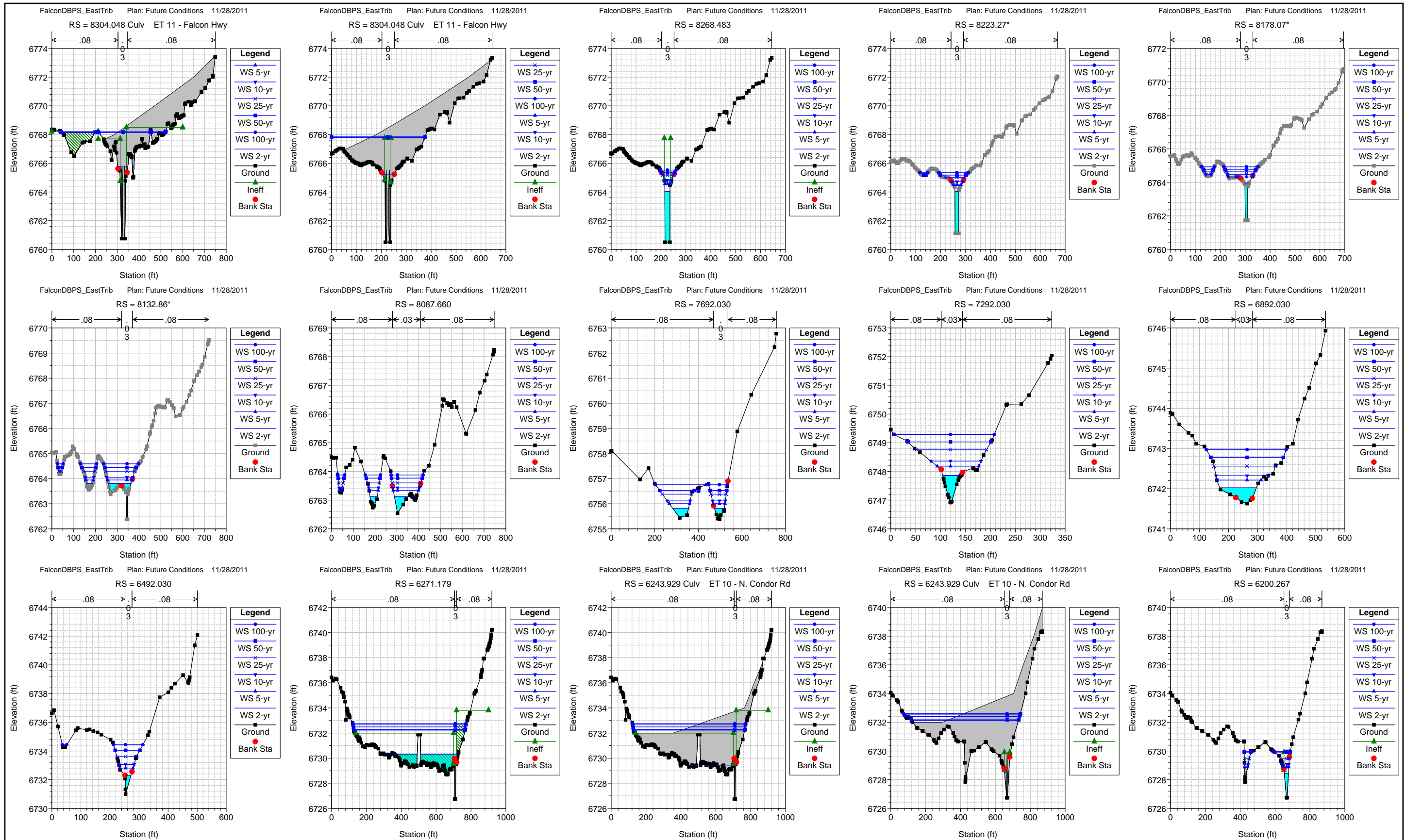


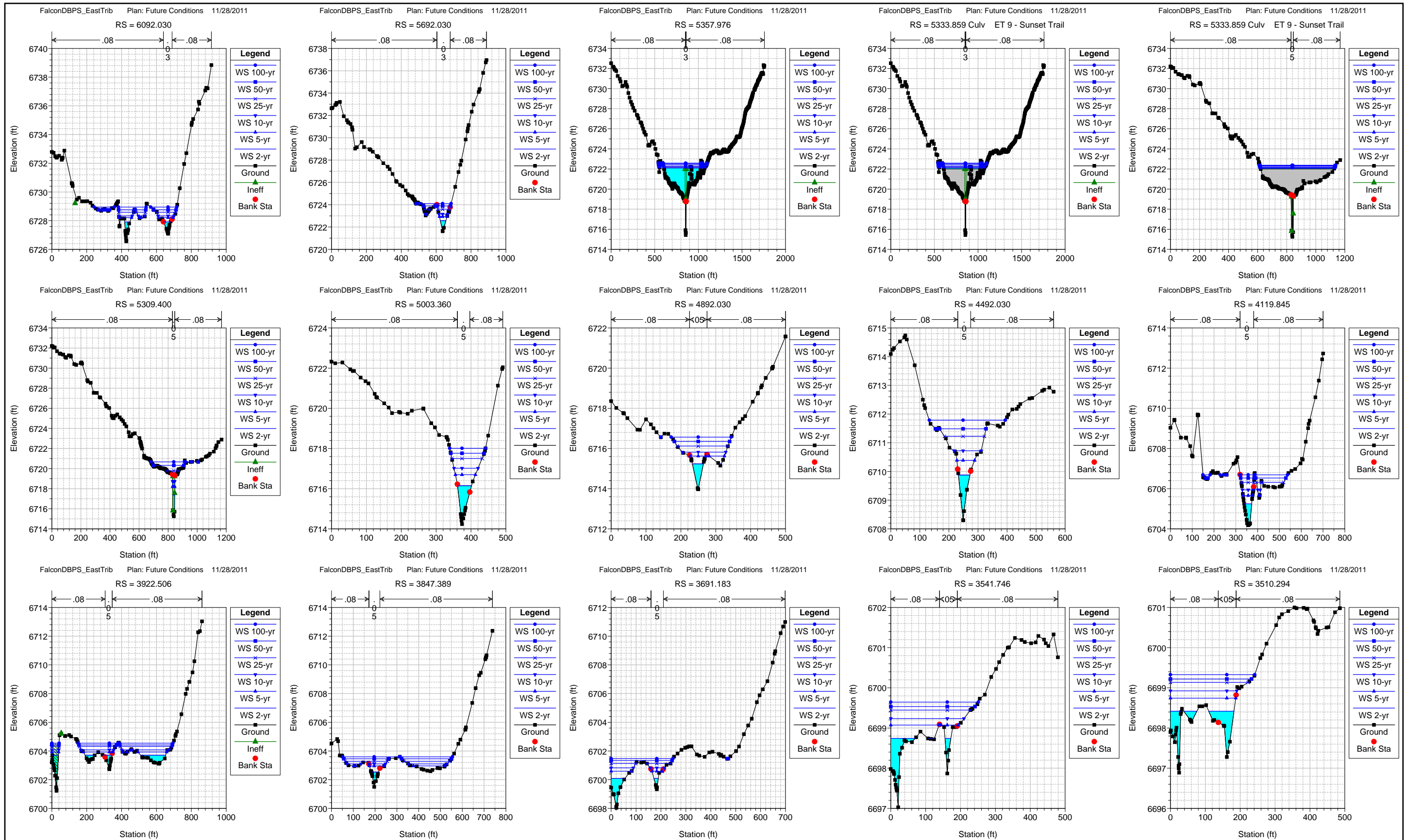


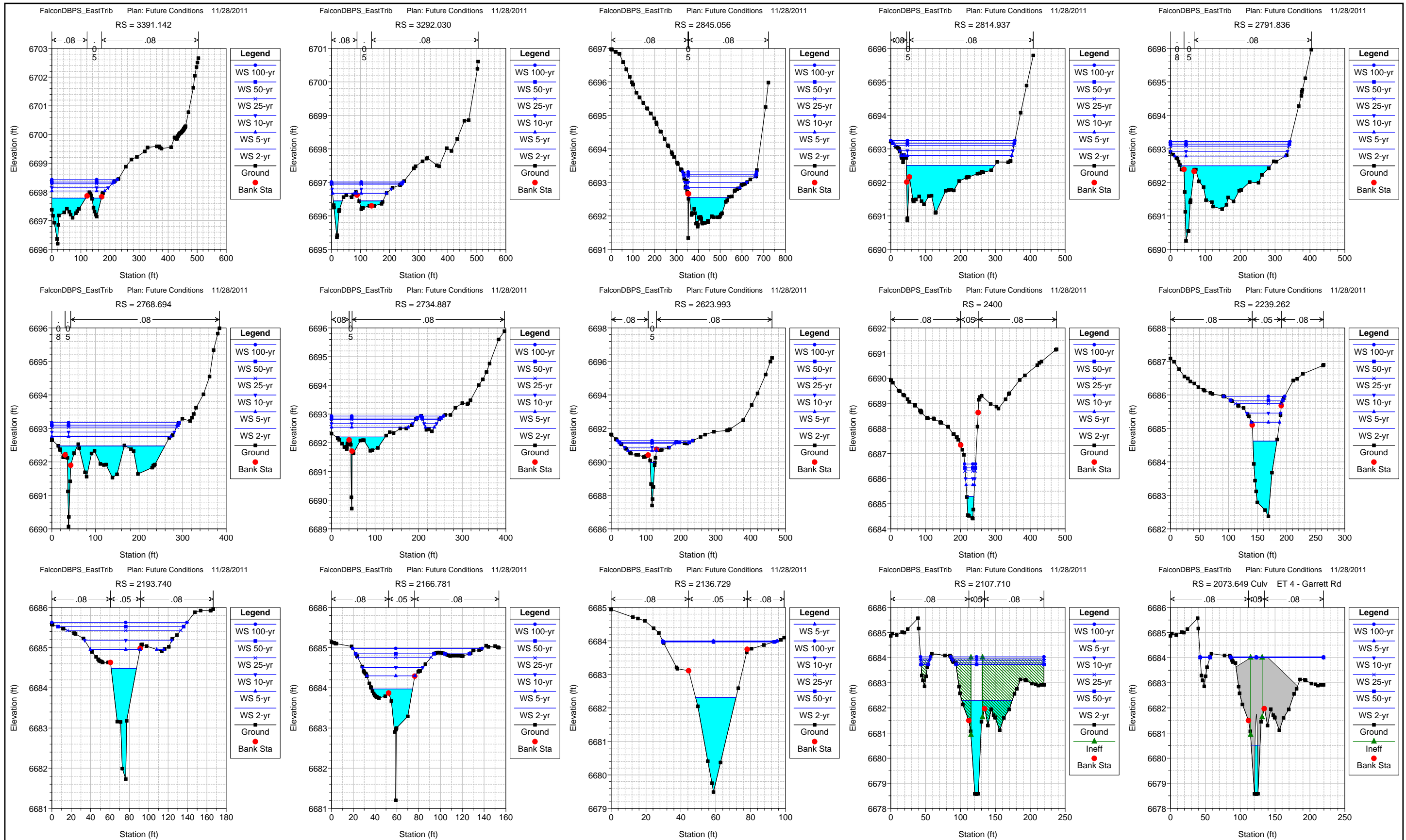


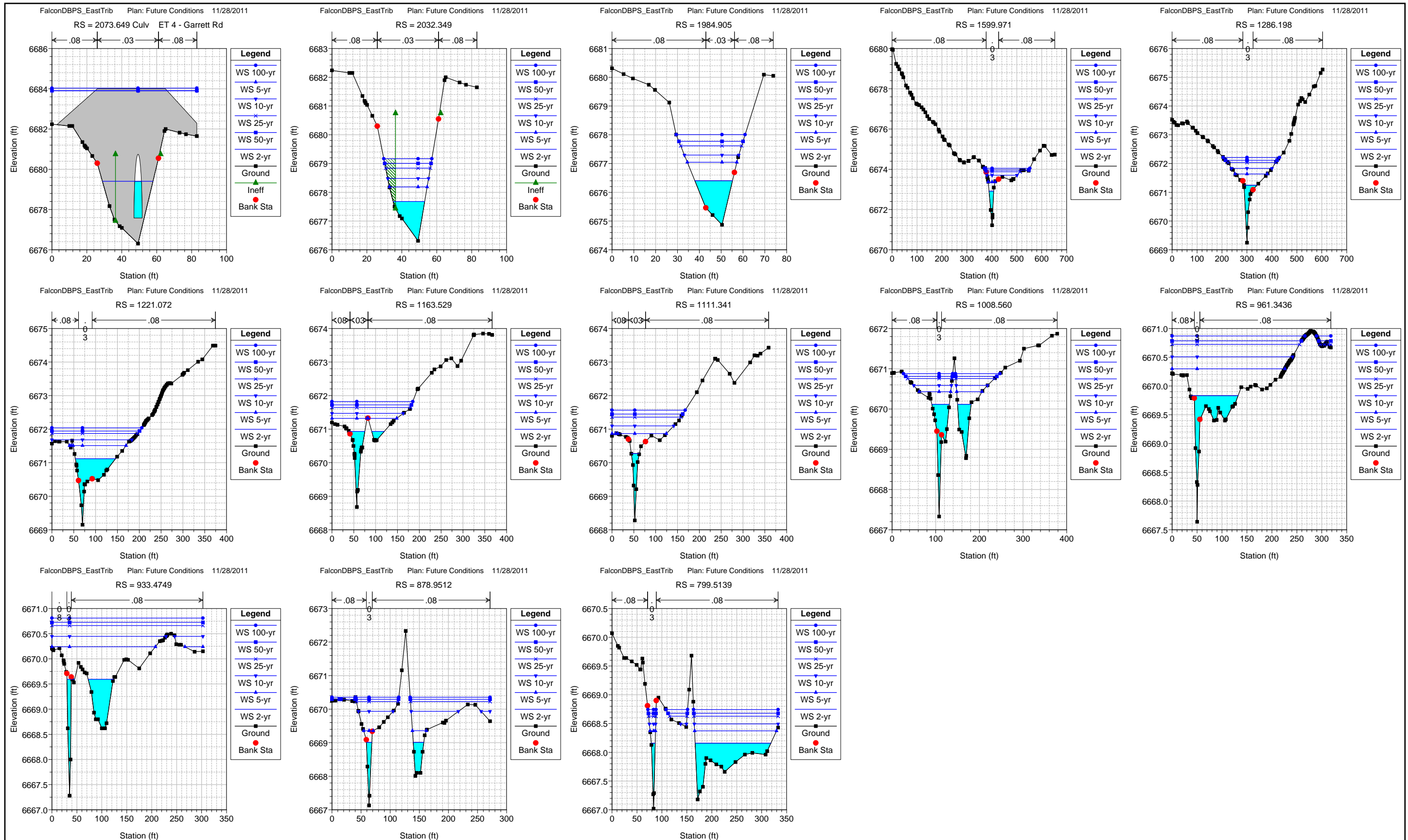






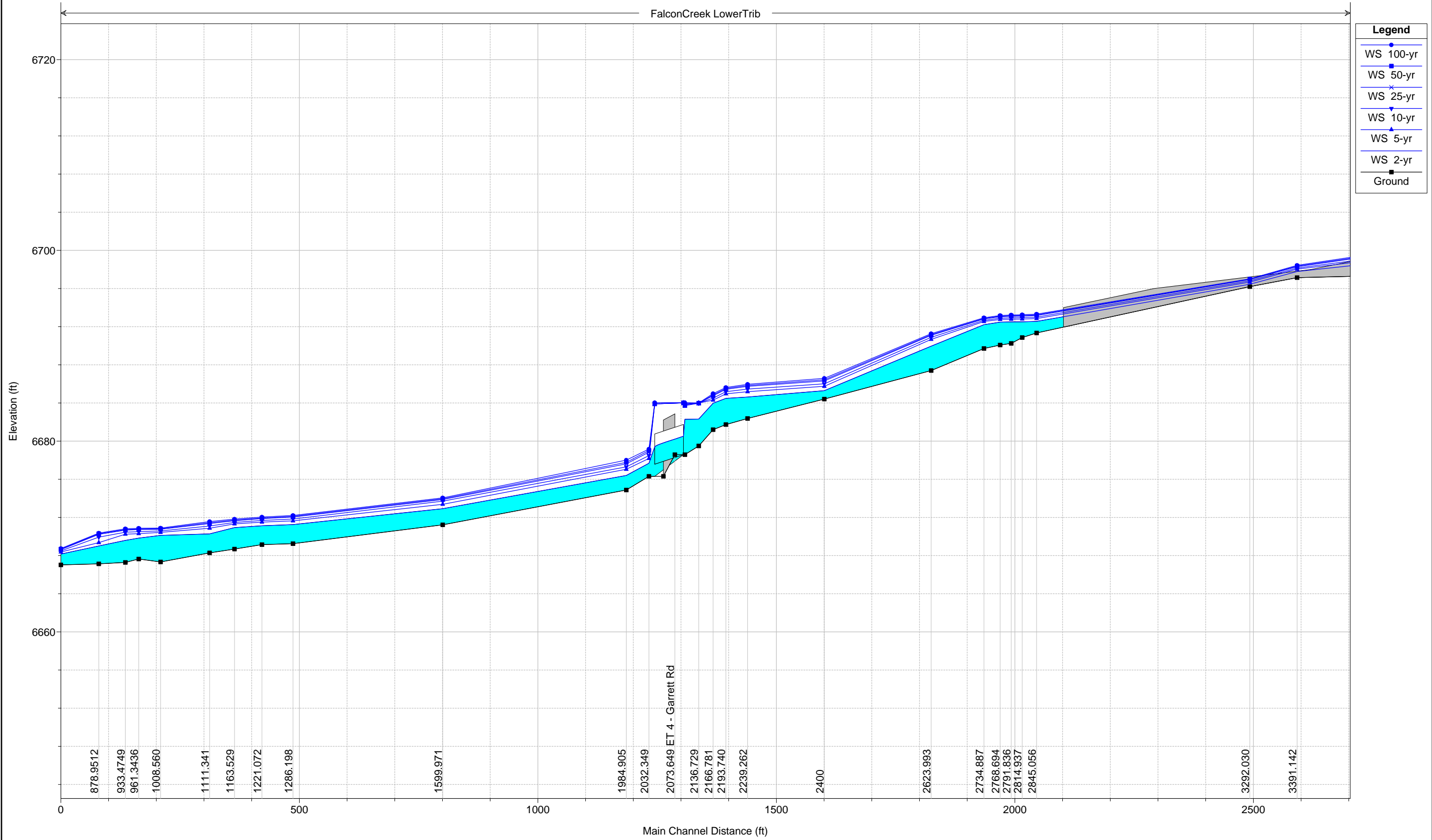




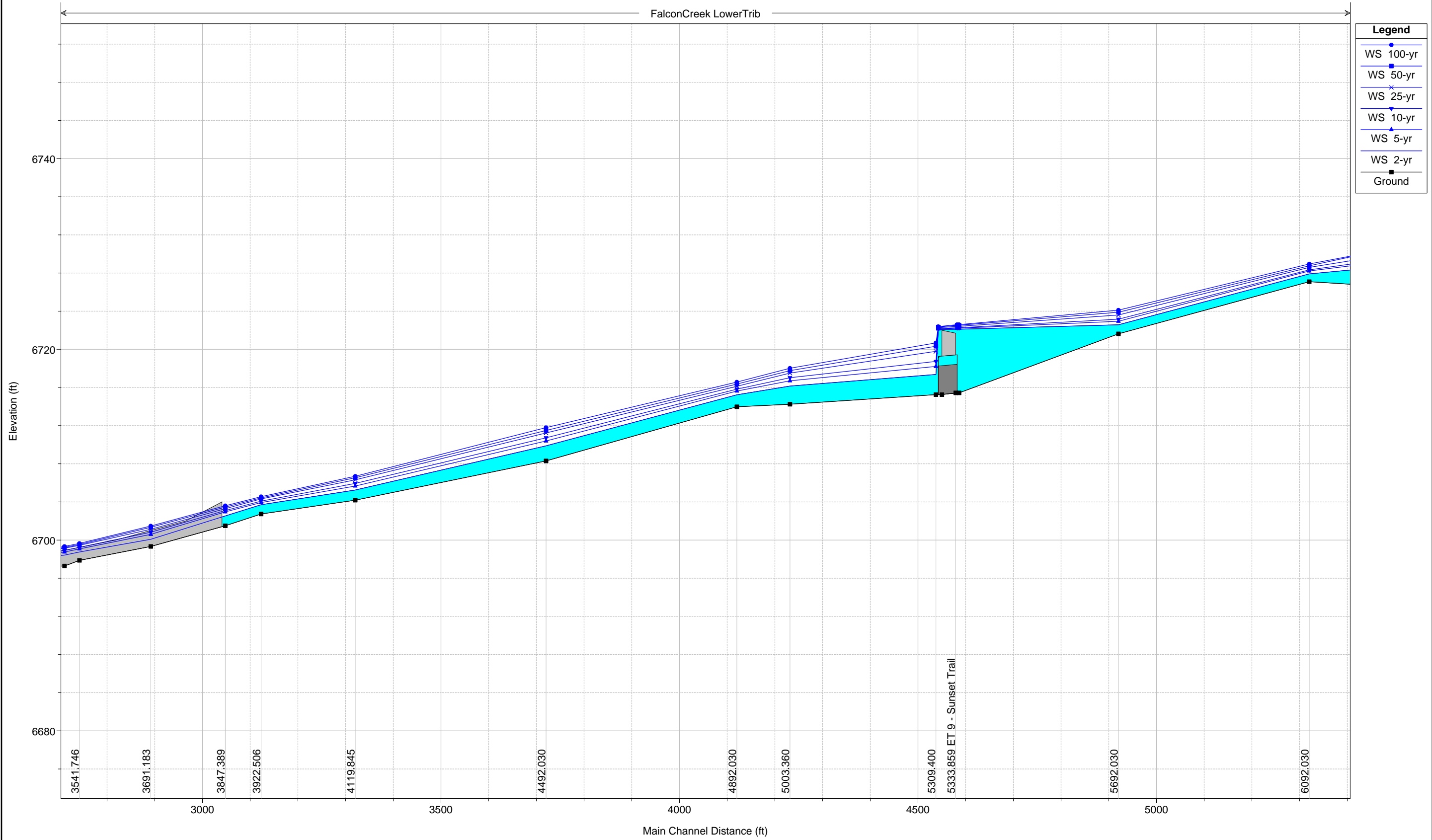


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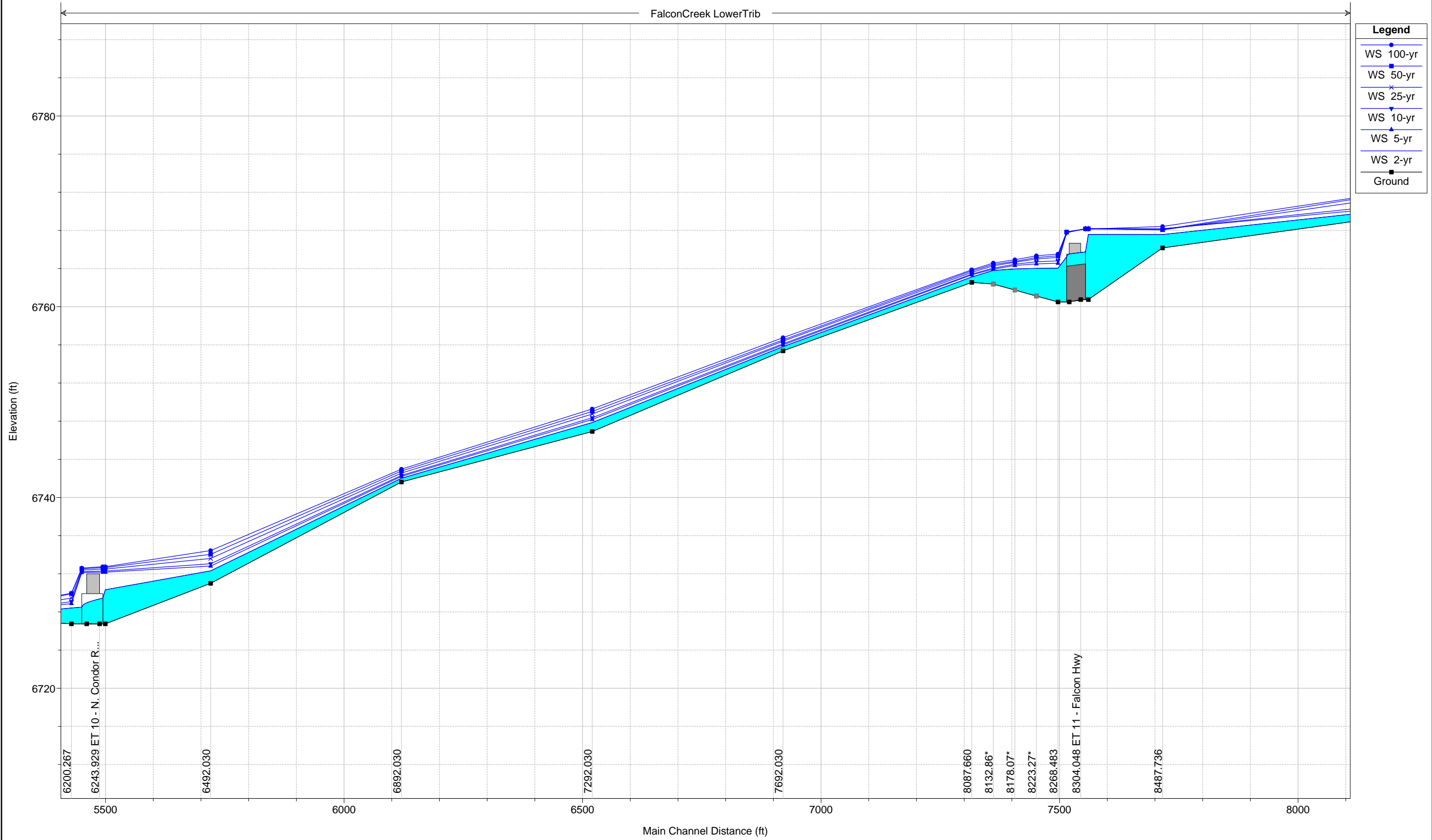
FalconCreek LowerTrib



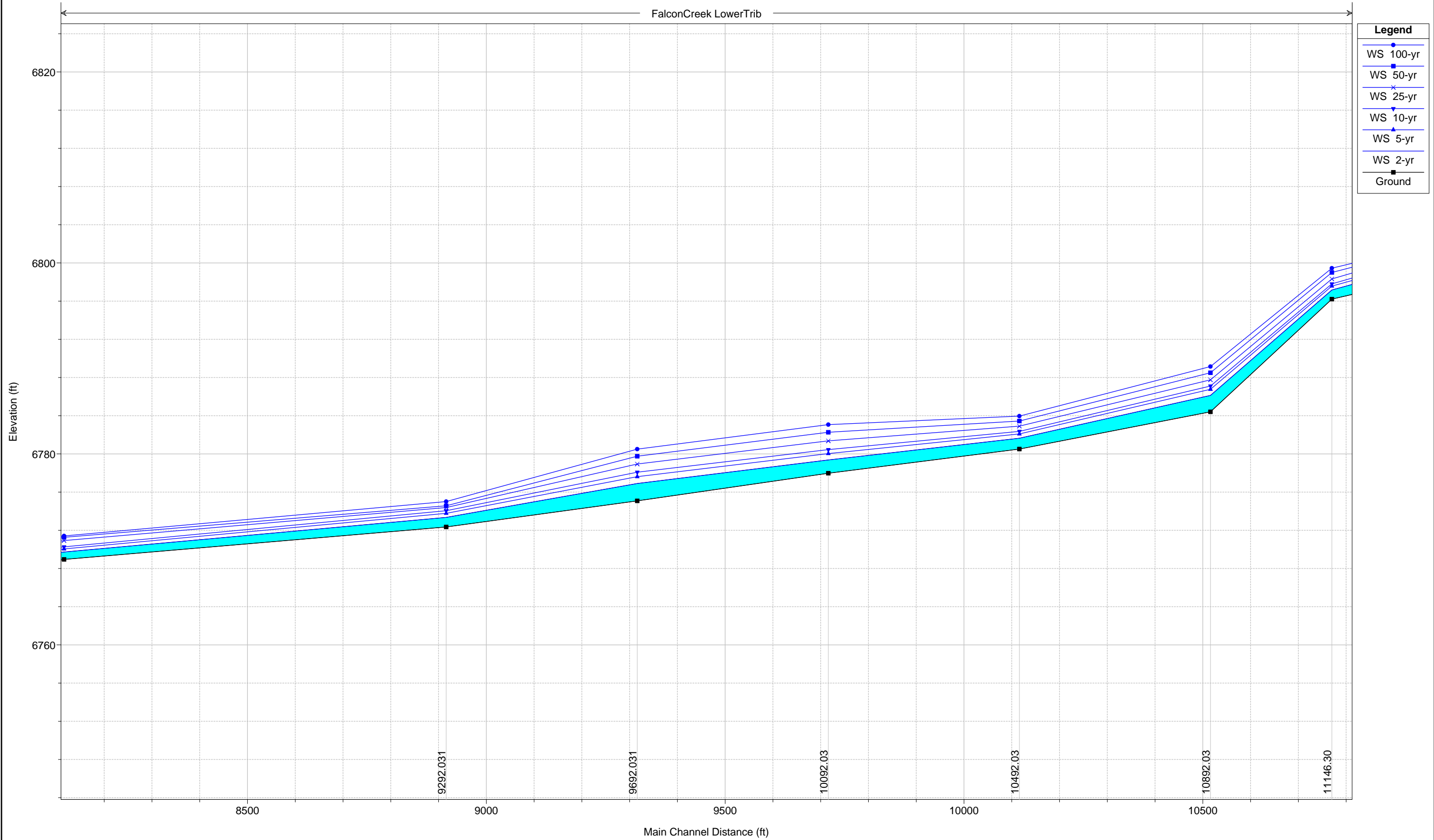
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

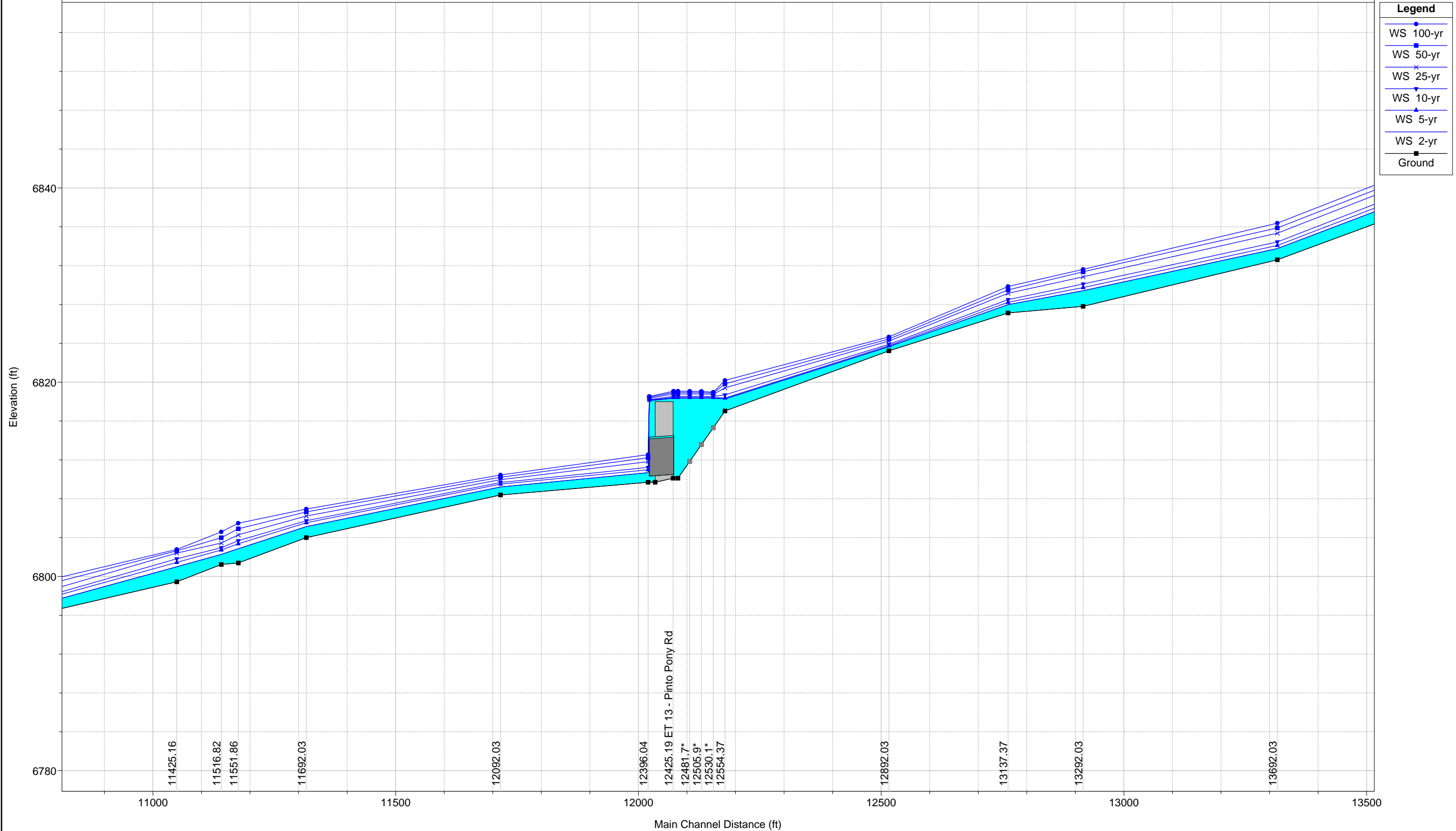


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

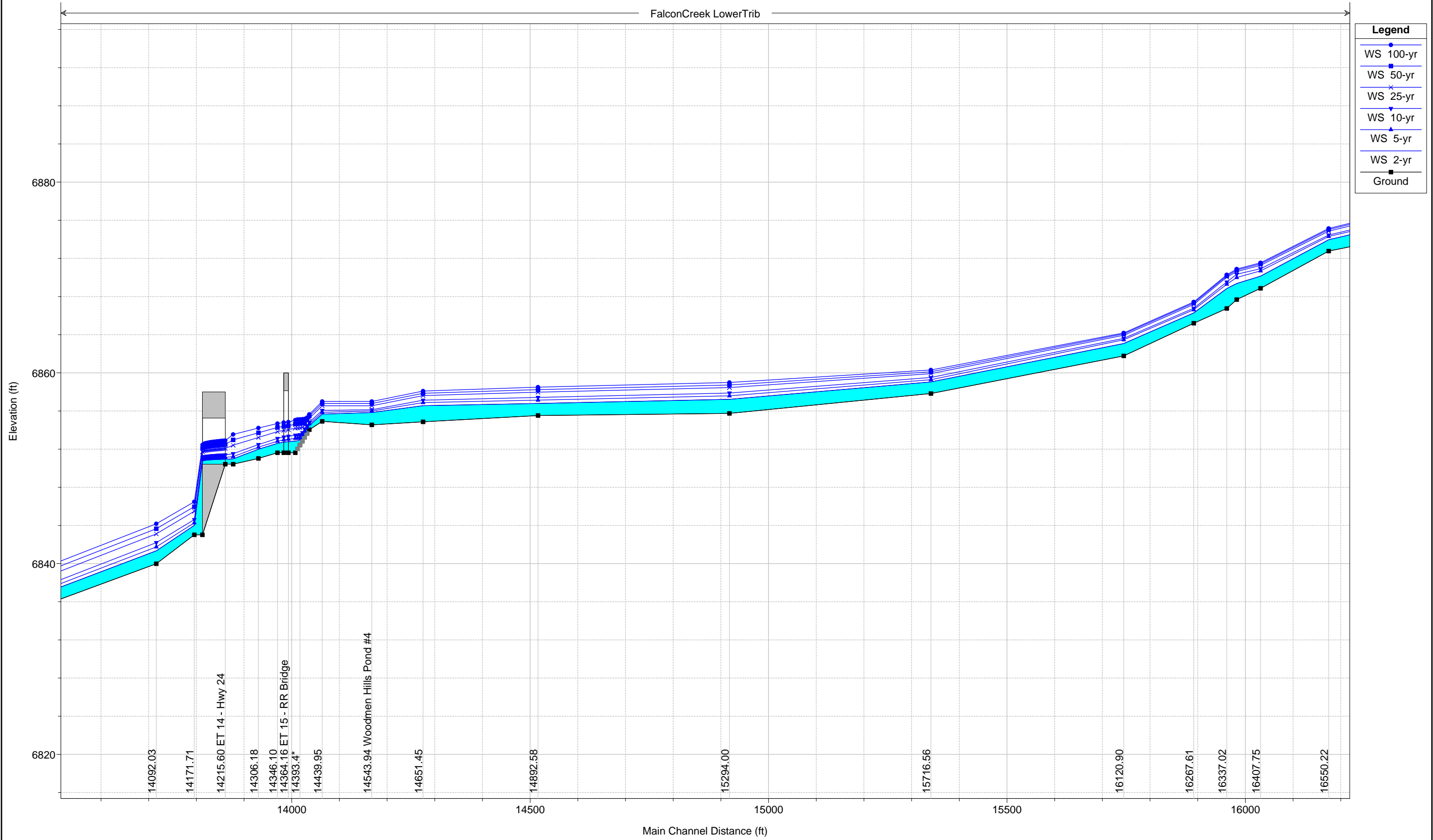


1 in Horiz. = 200 ft 1 in Vert. = 10 ft



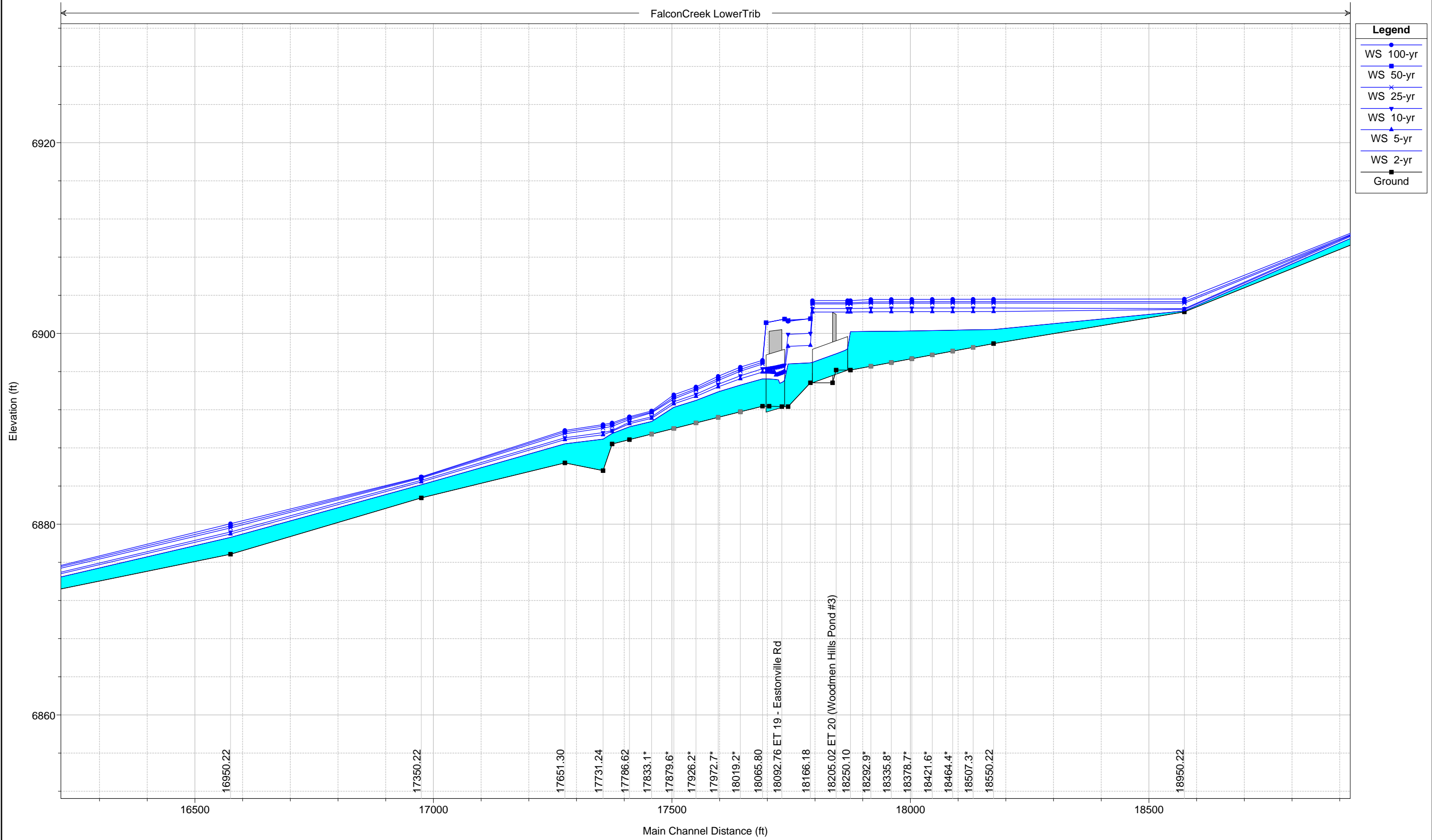


1 in Horiz. = 200 ft 1 in Vert. = 10 ft



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

FalconCreek LowerTrib

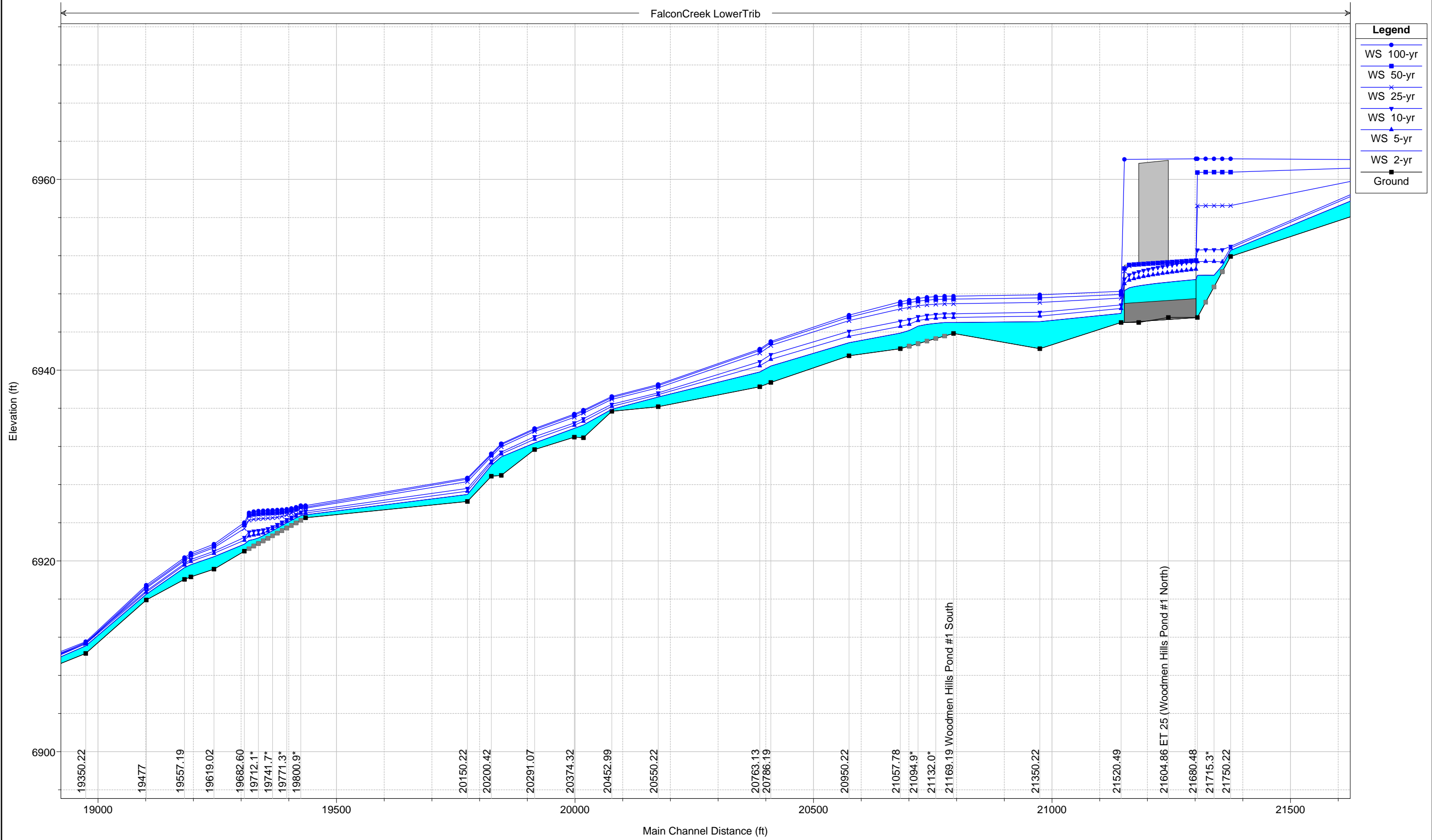


Legend

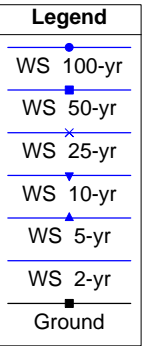
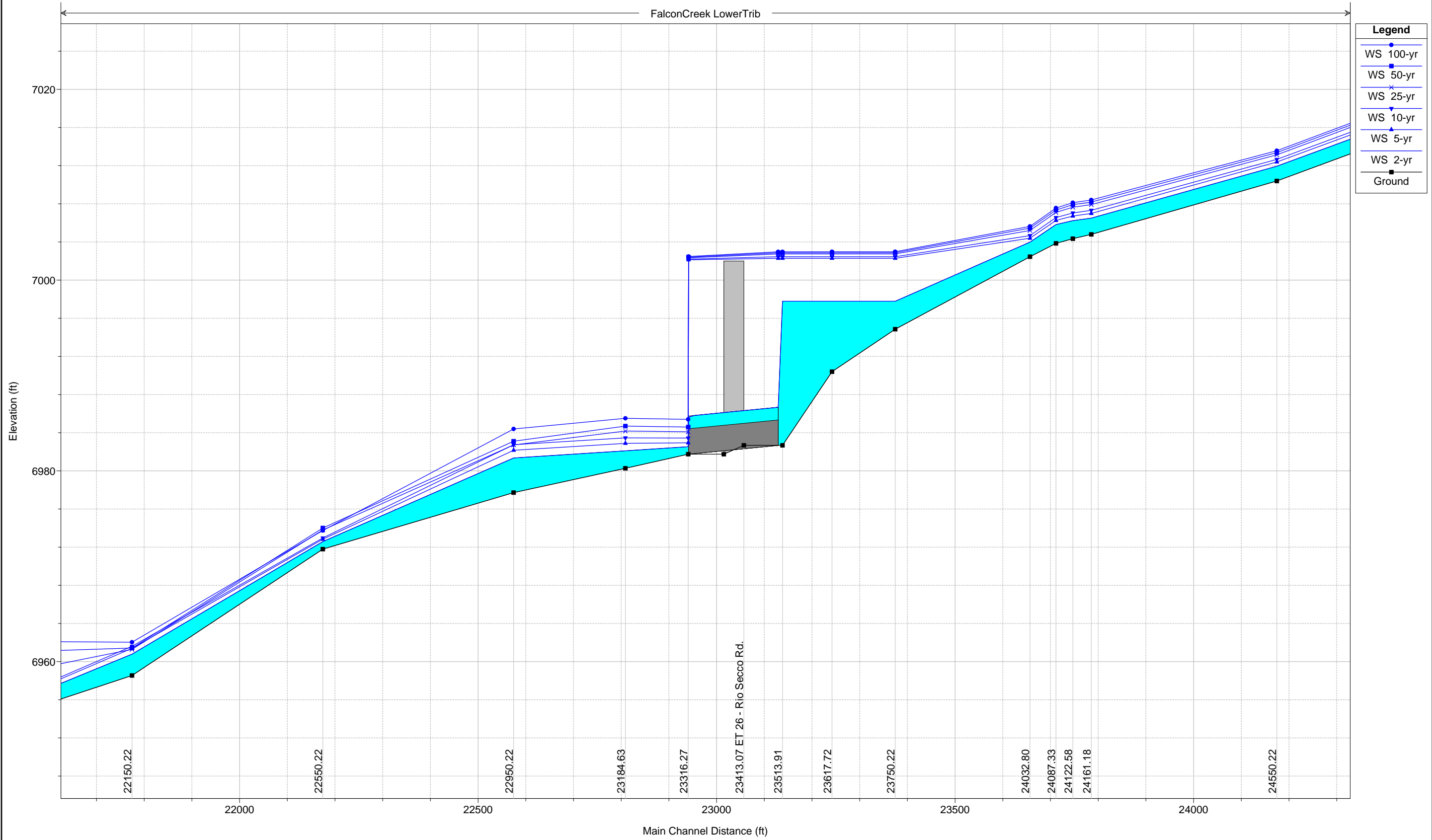
- WS 100-yr
- WS 50-yr
- WS 25-yr
- WS 10-yr
- WS 5-yr
- WS 2-yr
- Ground

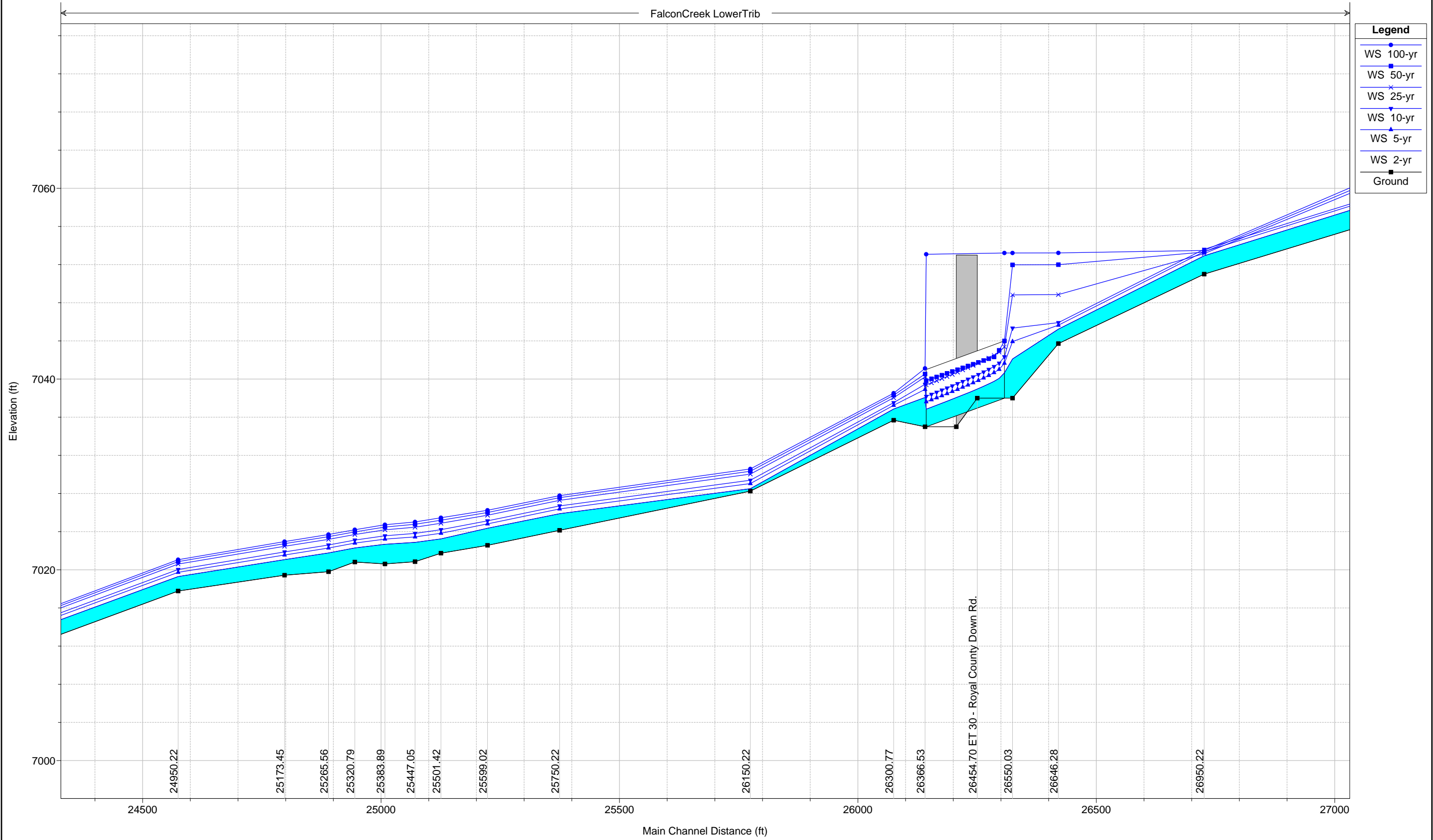
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

FalconCreek LowerTrib

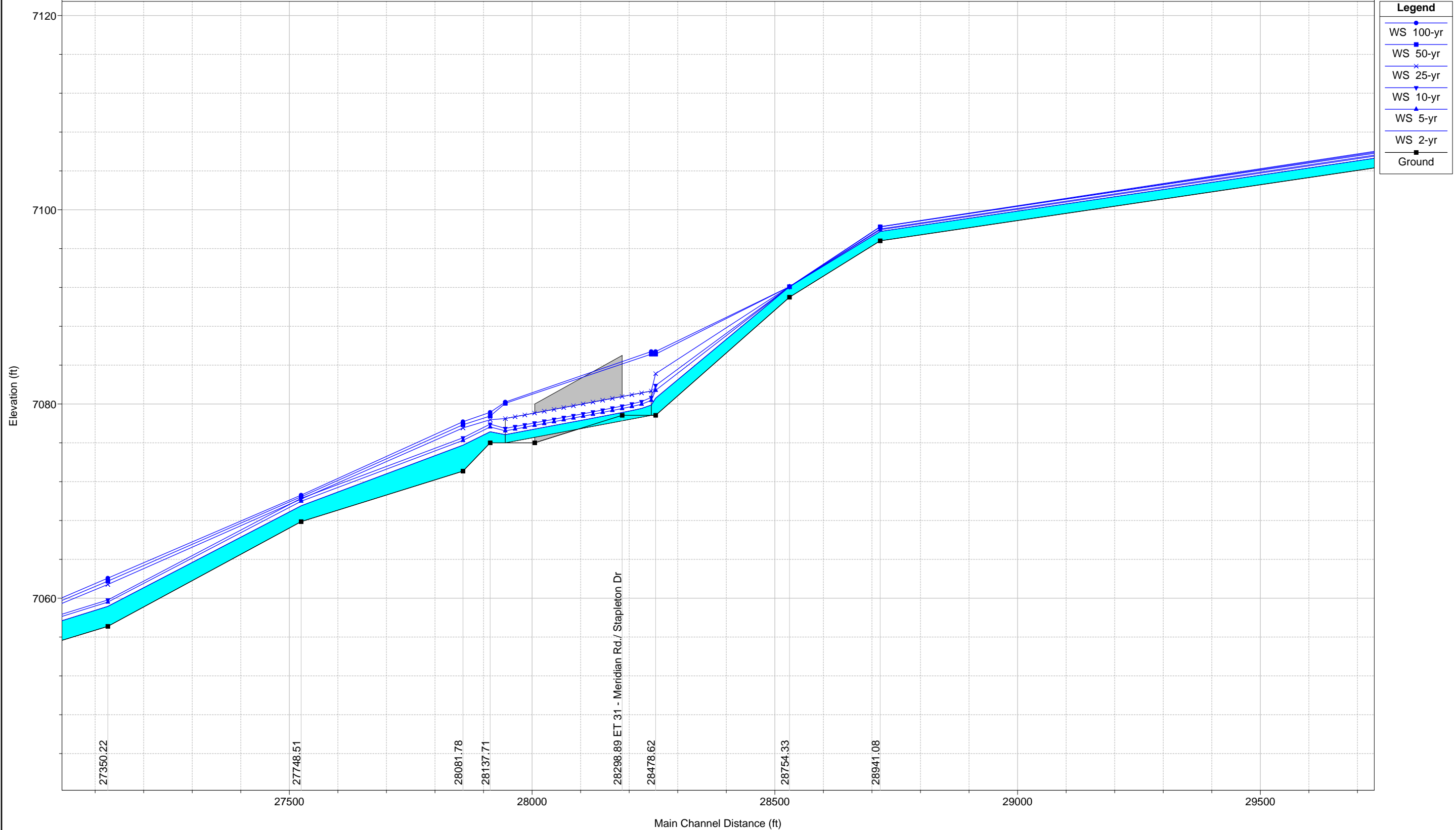


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

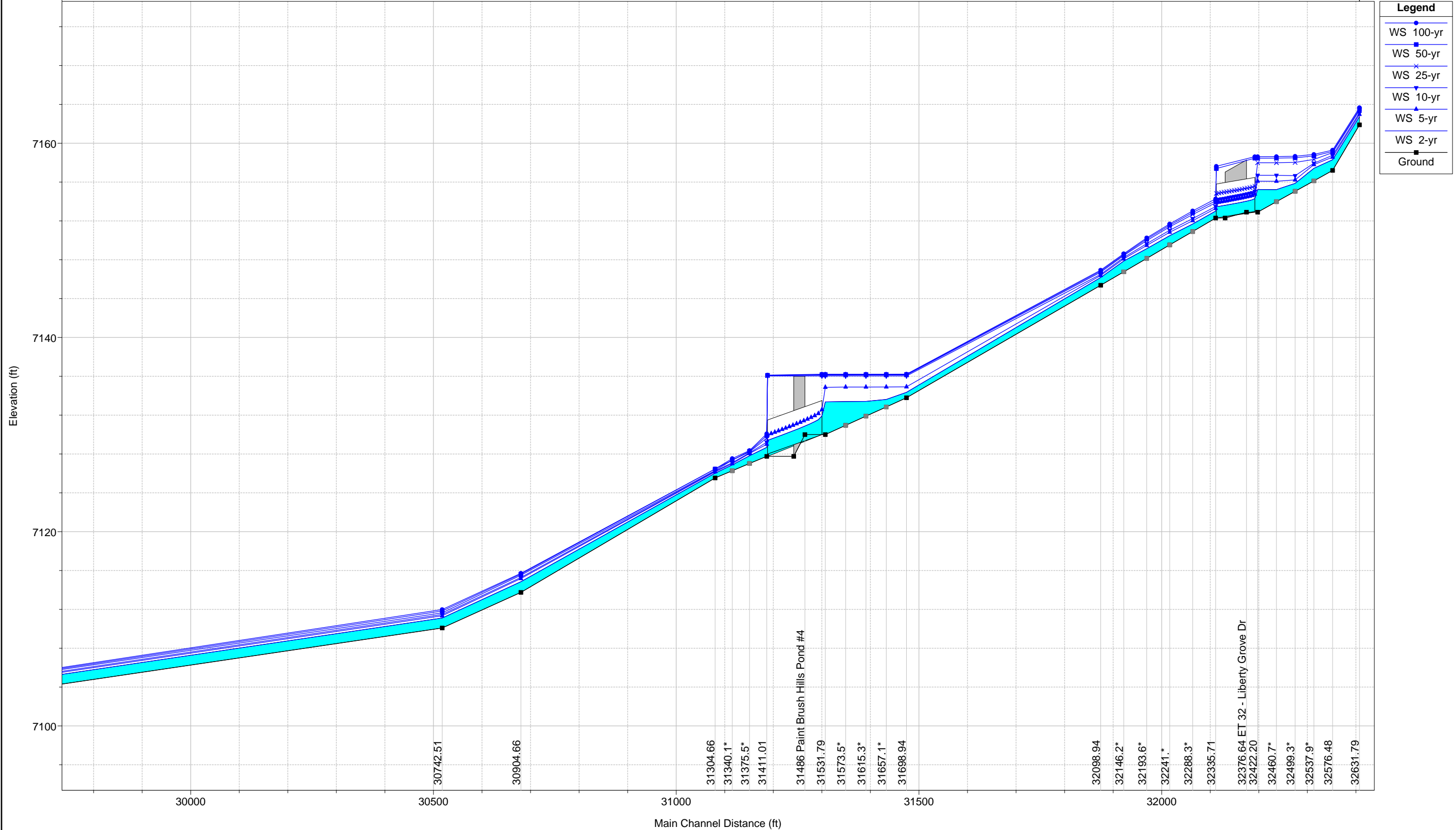




1 in Horiz. = 200 ft 1 in Vert. = 10 ft



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



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

Inputs & Calculations

Falcon DBPS

Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
47452.25	0.1	0.3
47423.5*	0.1	0.3
47394.8*	0.3	0.5
47366.1*	0.3	0.5
47337.4*	0.3	0.5
47308.71	0.3	0.5
47262	Culvert	
47224.28	0.3	0.5
47079.43	0.1	0.3
46818.78	0.1	0.3
46418.78	0.1	0.3
46207.62	0.1	0.3
46026.9	0.1	0.3
45892.82	0.1	0.3
45796.67	0.3	0.5
45766.17	Culvert	
45708.32	0.3	0.5
45564.77	0.1	0.3
45218.78	0.1	0.3
44818.78	0.1	0.3
44499.26	0.1	0.3
44418.78	0.1	0.3
44018.78	0.1	0.3
43618.78	0.1	0.3
43453.91	0.1	0.3
43386.36	0.1	0.3
43218.78	0.1	0.3
42818.78	0.1	0.3
42418.78	0.1	0.3
42018.78	0.1	0.3
41774.8	0.1	0.3
41539.1	0.1	0.3
41465.66	0.3	0.5
41441.59	Culvert	
41405.38	0.3	0.5
41368.0*	0.1	0.3
41330.7*	0.1	0.3
41293.4*	0.1	0.3
41256.1*	0.1	0.3
41218.78	0.1	0.3
40884.05	0.1	0.3
40418.78	0.1	0.3

Middle Tributary		
River Station	Contraction	Expansion
15477.33	0.1	0.3
15411.72	0.1	0.3
15205.81	0.1	0.3
15182.0*	0.1	0.3
15158.2*	0.1	0.3
15134.4*	0.1	0.3
15110.6*	0.1	0.3
15086.8*	0.1	0.3
15063.05	0.1	0.3
14907.55	0.1	0.3
14773.98	0.1	0.3
14507.55	0.1	0.3
14107.55	0.1	0.3
13707.55	0.1	0.3
13306.32	0.1	0.3
13111.17	0.1	0.3
12893	0.1	0.3
12511.32	0.1	0.3
12037.33	0.1	0.3
11628.61	0.1	0.3
11228.61	0.1	0.3
10828.61	0.3	0.5
10741.93	0.3	0.5
10706	Culvert	
10665.96	0.3	0.5
10428.61	0.1	0.3
10028.61	0.1	0.3
9628.612	0.1	0.3
9228.612	0.1	0.3
8741.269	0.1	0.3
8483.946	0.3	0.5
7238	Culvert	
6738.77	0.3	0.5
6420.92	0.1	0.3
6411.64*	0.1	0.3
6402.37*	0.1	0.3
6393.09*	0.1	0.3
6383.82*	0.1	0.3
6374.54*	0.1	0.3
6365.27*	0.1	0.3
6356.00*	0.1	0.3
6346.727	0.3	0.5

East Tributary		
River Station	Contraction	Expansion
32631.79	0.1	0.3
32576.48	0.1	0.3
32537.9*	0.1	0.3
32499.3*	0.1	0.3
32460.7*	0.1	0.3
32422.2	0.3	0.5
32376.64	Culvert	
32335.71	0.3	0.5
32288.3*	0.3	0.5
32241.*	0.3	0.5
32193.6*	0.3	0.5
32146.2*	0.3	0.5
32098.94	0.1	0.3
31698.94	0.3	0.5
31657.1*	0.3	0.5
31615.3*	0.3	0.5
31573.5*	0.3	0.5
31531.79	0.3	0.5
31486	Culvert	
31411.01	0.3	0.5
31375.5*	0.3	0.5
31340.1*	0.3	0.5
31304.66	0.1	0.3
30904.66	0.1	0.3
30742.51	0.1	0.3
28941.08	0.1	0.3
28754.33	0.1	0.3
28478.62	0.1	0.3
28298.89	Culvert	
28137.71	0.3	0.5
28081.78	0.1	0.3
27748.51	0.1	0.3
27350.22	0.1	0.3
26950.22	0.1	0.3
26646.28	0.3	0.5
26550.03	0.3	0.5
26454.7	Culvert	
26366.53	0.3	0.5
26300.77	0.1	0.3
26150.22	0.1	0.3
25750.22	0.1	0.3
25599.02	0.1	0.3

Falcon DBPS

Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
40018.78	0.1	0.3
39618.78	0.1	0.3
39218.78	0.1	0.3
38818.78	0.1	0.3
38418.78	0.1	0.3
38018.78	0.1	0.3
37618.78	0.1	0.3
37218.78	0.1	0.3
36914.66	0.1	0.3
36496.14	0.1	0.3
36328.17	0.1	0.3
36128.98	0.1	0.3
36018.78	0.1	0.3
35953.11	0.1	0.3
35609.06	0.1	0.3
35576.41	0.1	0.3
35218.78	0.1	0.3
35054.37	0.1	0.3
35025.09	0.1	0.3
34818.78	0.1	0.3
34639.33	0.1	0.3
34399.04	0.1	0.3
34320.25	0.1	0.3
34018.33	0.1	0.3
33792.91	0.1	0.3
33635.33	0.1	0.3
33235.67	0.1	0.3
32862.6	0.1	0.3
32439.34	0.1	0.3
32034.26	0.1	0.3
31765.2	0.1	0.3
31571.99	0.1	0.3
31384.44	0.1	0.3
31149.9	0.1	0.3
30906.88	0.1	0.3
30466.36	0.1	0.3
30109.14	0.1	0.3
29876.27	0.1	0.3
29632.62	0.1	0.3
29330.53	0.1	0.3
29004.24	0.1	0.3
28833.58	0.1	0.3

Middle Tributary		
River Station	Contraction	Expansion
6320.979	0.3	0.5
6276.979	Bridge	
6210.5	0.3	0.5
6158.16*	0.3	0.5
6105.82*	0.3	0.5
6053.48*	0.3	0.5
6001.15*	0.3	0.5
5948.81*	0.3	0.5
5896.477	0.1	0.3
5551.916	0.1	0.3
5362.949	0.1	0.3
5337.60*	0.1	0.3
5312.26*	0.1	0.3
5286.91*	0.1	0.3
5261.57*	0.1	0.3
5236.23*	0.3	0.5
5210.887	0.3	0.5
5184.12	Bridge	
5159.05	0.3	0.5
5120.029	0.3	0.5
5091.662	0.3	0.5
5035.56	Culvert	
4988.302	0.3	0.5
4971.81*	0.1	0.3
4955.33*	0.1	0.3
4938.84*	0.1	0.3
4922.36*	0.1	0.3
4905.881	0.1	0.3
4751.912	0.1	0.3
4351.913	0.1	0.3
3951.913	0.1	0.3
3849.362	0.1	0.3
3822.34*	0.3	0.5
3795.32*	0.3	0.5
3768.30*	0.3	0.5
3741.28*	0.3	0.5
3714.26	0.3	0.5
3667.171	Culvert	
3619.655	0.3	0.5
3385.78*	0.1	0.3
3151.913	0.1	0.3
2744.492	0.1	0.3

East Tributary		
River Station	Contraction	Expansion
25501.42	0.1	0.3
25447.05	0.1	0.3
25383.89	0.1	0.3
25320.79	0.1	0.3
25265.56	0.1	0.3
25173.45	0.1	0.3
24950.22	0.1	0.3
24550.22	0.1	0.3
24161.18	0.1	0.3
24122.58	0.1	0.3
24087.33	0.1	0.3
24032.8	0.1	0.3
23750.22	0.1	0.3
23617.72	0.3	0.5
23513.91	0.3	0.5
23413.07	Culvert	
23316.27	0.3	0.5
23184.63	0.1	0.3
22950.22	0.1	0.3
22550.22	0.1	0.3
22150.22	0.1	0.3
21750.22	0.3	0.5
21732.7*	0.3	0.5
21715.3*	0.3	0.5
21697.9*	0.3	0.5
21680.48	0.3	0.5
21604.86	Culvert	
21520.49	0.3	0.5
21350.22	0.1	0.3
21169.19	0.1	0.3
21150.6*	0.1	0.3
21132.0*	0.1	0.3
21113.4*	0.1	0.3
21094.9*	0.1	0.3
21076.3*	0.1	0.3
21057.78	0.1	0.3
20950.22	0.1	0.3
20786.19	0.1	0.3
20763.13	0.1	0.3
20550.22	0.1	0.3
20452.99	0.1	0.3
20393.38	0.1	0.3

Falcon DBPS

Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
28432.62	0.1	0.3
28032.62	0.1	0.3
27507.46	0.1	0.3
27232.62	0.1	0.3
26814.63	0.1	0.3
26425.04	0.1	0.3
25882.64	0.1	0.3
25406.2	0.1	0.3
25024.12	0.1	0.3
24630.32	0.1	0.3
24203.51	0.1	0.3
23803.51	0.1	0.3
23401.38	0.1	0.3
23003.51	0.1	0.3
22594.16	0.1	0.3
22566.37	0.1	0.3
22203.51	0.3	0.5
22188.6*	0.3	0.5
22173.7*	0.3	0.5
22158.9*	0.3	0.5
22144.0*	0.3	0.5
22129.18	0.3	0.5
21948.92	Culvert	
21824.12	0.3	0.5
21801.9*	0.1	0.3
21779.8*	0.1	0.3
21757.6*	0.1	0.3
21735.5*	0.1	0.3
21713.34	0.1	0.3
21430.2	0.1	0.3
21388.91	0.1	0.3
21003.51	0.1	0.3
20603.51	0.1	0.3
20469.47	0.1	0.3
20430.88	0.1	0.3
20203.51	0.1	0.3
20162.9*	0.1	0.3
20122.3*	0.1	0.3
20081.7*	0.3	0.5
20041.14	0.3	0.5
19961.38	Culvert	
19894.2	0.3	0.5

Middle Tributary		
River Station	Contraction	Expansion
2393.844	0.1	0.3
2000	0.1	0.3
1923.28*	0.3	0.5
1846.57*	0.3	0.5
1769.85*	0.3	0.5
1693.141	0.3	0.5
1661.946	Culvert	
1631.806	0.3	0.5
1489.711	0.1	0.3
1199.006	0.1	0.3
800	0.1	0.3
400	0.1	0.3

East Tributary		
River Station	Contraction	Expansion
20374.32	0.1	0.3
20291.07	0.1	0.3
20221.25	0.1	0.3
20200.42	0.1	0.3
20150.22	0.1	0.3
19810.83	0.1	0.3
19800.9*	0.1	0.3
19791.1*	0.1	0.3
19781.2*	0.1	0.3
19771.3*	0.1	0.3
19761.5*	0.1	0.3
19751.6*	0.1	0.3
19741.7*	0.1	0.3
19731.9*	0.1	0.3
19722.0*	0.1	0.3
19712.1*	0.1	0.3
19702.3*	0.1	0.3
19692.4*	0.1	0.3
19682.6	0.1	0.3
19619.02	0.1	0.3
19570.53	0.1	0.3
19557.19	0.1	0.3
19477	0.1	0.3
19350.22	0.1	0.3
18950.22	0.1	0.3
18550.22	0.1	0.3
18507.3*	0.1	0.3
18464.4*	0.3	0.5
18421.6*	0.3	0.5
18378.7*	0.3	0.5
18335.8*	0.3	0.5
18292.9*	0.3	0.5
18250.1	0.3	0.5
18205.02	Culvert	
18166.18	0.3	0.5
18119.34	0.3	0.5
18092.76	Culvert	
18065.8	0.3	0.5
18019.2*	0.1	0.3
17972.7*	0.1	0.3
17926.2*	0.1	0.3
17879.6*	0.1	0.3

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Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
19871.5*	0.1	0.3
19848.8*	0.1	0.3
19826.1*	0.1	0.3
19803.51	0.1	0.3
19403.51	0.1	0.3
19003.51	0.1	0.3
18705.72	0.3	0.5
18654	Mult Open	
18554.84	0.3	0.5
18275.78	0.1	0.3
17889.25	0.3	0.5
17884	Culvert	
17881.36	0.3	0.5
17876	0.3	0.5
17840	Culvert	
17784.85	0.3	0.5
17759.6*	0.1	0.3
17734.3*	0.1	0.3
17709.1*	0.1	0.3
17683.8*	0.1	0.3
17658.61	0.3	0.5
17647.61	Bridge	
17638.04	0.3	0.5
17616.3*	0.1	0.3
17594.5*	0.1	0.3
17572.8*	0.3	0.5
17551.13	0.3	0.5
17517.42	Culvert	
17465.45	0.3	0.5
17443.5*	0.1	0.3
17421.6*	0.1	0.3
17399.67	0.1	0.3
17281.4	0.1	0.3
16985.18	0.1	0.3
16577.83	0.1	0.3
16177.83	0.1	0.3
15777.83	0.1	0.3
15497.53	0.1	0.3
15436.09	0.1	0.3
15417.5*	0.1	0.3
15398.9*	0.1	0.3
15380.4*	0.1	0.3

Middle Tributary		
River Station	Contraction	Expansion

East Tributary		
River Station	Contraction	Expansion
17833.1*	0.1	0.3
17786.62	0.1	0.3
17750.22	0.1	0.3
17731.24	0.1	0.3
17651.3	0.1	0.3
17350.22	0.1	0.3
16950.22	0.1	0.3
16550.22	0.1	0.3
16407.75	0.1	0.3
16357.76	0.1	0.3
16337.02	0.1	0.3
16267.61	0.1	0.3
16120.9	0.1	0.3
15716.56	0.1	0.3
15294	0.1	0.3
14892.58	0.1	0.3
14651.45	0.1	0.3
14543.94	0.3	0.5
14439.95	0.3	0.5
14413.05	0.3	0.5
14408.1*	0.3	0.5
14403.2*	0.3	0.5
14398.3*	0.3	0.5
14393.4*	0.3	0.5
14388.5*	0.3	0.5
14383.59	0.3	0.5
14364.16	Bridge	
14346.1	0.3	0.5
14306.18	0.3	0.5
14253.14	0.3	0.5
14215.6	Culvert	
14171.71	0.3	0.5
14092.03	0.1	0.3
13692.03	0.1	0.3
13292.03	0.1	0.3
13137.37	0.1	0.3
12892.03	0.1	0.3
12554.37	0.3	0.5
12530.1*	0.3	0.5
12505.9*	0.3	0.5
12481.7*	0.3	0.5
12457.47	0.3	0.5

Falcon DBPS
Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
15361.8*	0.3	0.5
15343.33	0.3	0.5
15318.93	Culvert	
15286.98	0.3	0.5
15268.7*	0.1	0.3
15250.4*	0.1	0.3
15232.1*	0.1	0.3
15213.92	0.1	0.3
15142.8	0.3	0.5
15098.6*	0.3	0.5
15054.4*	0.3	0.5
15010.3*	0.3	0.5
14966.13	0.3	0.5
14944.59	Mult Open	
14918.08	0.3	0.5
14850.0*	0.1	0.3
14781.9*	0.1	0.3
14713.9*	0.1	0.3
14645.8*	0.1	0.3
14577.83	0.1	0.3
14177.83	0.1	0.3
13823.36	0.1	0.3
13632.58	0.1	0.3
13268.37	0.1	0.3
12937.08	0.1	0.3
12902.31	0.1	0.3
12577.83	0.1	0.3
12177.83	0.1	0.3
11777.83	0.1	0.3
11377.83	0.1	0.3
11046.61	0.1	0.3
10857.54	0.1	0.3
10621.52	0.1	0.3
10574.28	0.1	0.3
10177.83	0.1	0.3
10004.08	0.1	0.3
9970.28*	0.3	0.5
9936.49*	0.3	0.5
9902.69*	0.3	0.5
9868.90*	0.3	0.5
9835.112	0.3	0.5
9806.61	Culvert	

Middle Tributary		
River Station	Contraction	Expansion

East Tributary		
River Station	Contraction	Expansion
12425.19	Culvert	
12396.04	0.3	0.5
12092.03	0.1	0.3
11692.03	0.1	0.3
11551.86	0.1	0.3
11516.82	0.1	0.3
11425.16	0.1	0.3
11146.3	0.1	0.3
10892.03	0.1	0.3
10492.03	0.1	0.3
10092.03	0.1	0.3
9692.031	0.1	0.3
9292.031	0.1	0.3
8887.93	0.1	0.3
8487.736	0.3	0.5
8332.121	0.3	0.5
8304.048	Culvert	
8268.483	0.3	0.5
8223.27*	0.1	0.3
8178.07*	0.1	0.3
8132.86*	0.1	0.3
8087.66	0.1	0.3
7692.03	0.1	0.3
7292.03	0.1	0.3
6892.03	0.1	0.3
6492.03	0.3	0.5
6271.179	0.3	0.5
6243.929	Culvert	
6200.267	0.3	0.5
6092.03	0.1	0.3
5692.03	0.3	0.5
5357.976	0.3	0.5
5333.859	Culvert	
5309.4	0.3	0.5
5003.36	0.1	0.3
4892.03	0.1	0.3
4492.03	0.1	0.3
4119.845	0.1	0.3
3922.506	0.1	0.3
3847.389	0.1	0.3
3840	Lat Struct	
3691.183	0.1	0.3

Falcon DBPS

Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
9776.876	0.3	0.5
9737.71*	0.1	0.3
9698.55*	0.1	0.3
9659.39*	0.1	0.3
9620.23*	0.1	0.3
9581.077	0.1	0.3
9442.913	0.1	0.3
9377.833	0.1	0.3
9076.212	0.1	0.3
9038.543	0.1	0.3
8864.996	0.1	0.3
8577.833	0.1	0.3
8550.10*	0.1	0.3
8522.37*	0.3	0.5
8494.64*	0.3	0.5
8466.917	0.3	0.5
8435.27	Culvert	
8403.688	0.3	0.5
8368.43*	0.1	0.3
8333.18*	0.1	0.3
8297.92*	0.1	0.3
8262.67*	0.1	0.3
8227.417	0.1	0.3
7777.832	0.1	0.3
7614.436	0.1	0.3
7377.832	0.1	0.3
7135.927	0.1	0.3
6927.82	0.1	0.3
6678.024	0.1	0.3
6485.523	0.1	0.3
6451.52	0.1	0.3
6177.403	0.1	0.3
5998.479	0.1	0.3
5863.168	0.1	0.3
5837.669	0.1	0.3
5761.531	0.1	0.3
5566.663	0.1	0.3
5544.6	0.3	0.5
5525.06*	0.3	0.5
5505.53*	0.3	0.5
5485.99*	0.3	0.5
5466.45*	0.3	0.5

Middle Tributary		
River Station	Contraction	Expansion

East Tributary		
River Station	Contraction	Expansion
3541.746	0.1	0.3
3510.294	0.1	0.3
3391.142	0.1	0.3
3292.03	0.1	0.3
2845.056	0.1	0.3
2814.937	0.1	0.3
2791.836	0.1	0.3
2768.694	0.1	0.3
2734.887	0.1	0.3
2623.993	0.1	0.3
2400	0.1	0.3
2239.262	0.1	0.3
2193.74	0.1	0.3
2166.781	0.1	0.3
2136.729	0.3	0.5
2107.71	0.3	0.5
2073.649	Culvert	
2032.349	0.3	0.5
1984.905	0.1	0.3
1599.971	0.1	0.3
1286.198	0.1	0.3
1221.072	0.1	0.3
1163.529	0.1	0.3
1111.341	0.1	0.3
1008.56	0.1	0.3
961.3436	0.1	0.3
933.4749	0.1	0.3
878.9512	0.1	0.3
799.5139	0.1	0.3

Falcon DBPS

Expansion & Contraction Coefficients

West Tributary		
River Station	Contraction	Expansion
5446.92*	0.3	0.5
5427.389	0.3	0.5
5398.42	Culvert	
5379.875	0.3	0.5
5249.459	0.1	0.3
4939.985	0.1	0.3
4838.839	0.1	0.3
4753.93	0.1	0.3
4577.833	0.1	0.3
4290.608	0.1	0.3
4034.844	0.1	0.3
3777.832	0.1	0.3
3377.832	0.1	0.3
2977.832	0.1	0.3
2577.832	0.1	0.3
2345.77	0.1	0.3
2032.471	0.1	0.3
1777.832	0.1	0.3
1691.543	0.1	0.3
1408.459	0.1	0.3
1013.077	0.1	0.3
619.9514	0.1	0.3
388.339	0.1	0.3
357.5013	0.1	0.3

Middle Tributary		
River Station	Contraction	Expansion

East Tributary		
River Station	Contraction	Expansion

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
47452.25	n	0.08	0.05	0.08
47423.5*	n	0.08	0.05	0.08
47394.8*	n	0.08	0.05	0.08
47366.1*	n	0.08	0.05	0.08
47337.4*	n	0.08	0.05	0.08
47308.71	n	0.08	0.05	0.08
47262	Culvert			
47224.28	n	0.08	0.05	0.08
47079.43	n	0.08	0.05	0.08
46818.78	n	0.08	0.05	0.08
46418.78	n	0.08	0.05	0.08
46207.62	n	0.08	0.05	0.08
46026.9	n	0.08	0.05	0.08
45892.82	n	0.08	0.05	0.08
45796.67	n	0.08	0.05	0.08
45766.17	Culvert			
45708.32	n	0.08	0.05	0.08
45564.77	n	0.08	0.05	0.08
45218.78	n	0.08	0.05	0.08
44818.78	n	0.08	0.05	0.08
44499.26	n	0.08	0.05	0.08
44418.78	n	0.08	0.05	0.08
44018.78	n	0.08	0.05	0.08
43618.78	n	0.08	0.05	0.08
43453.91	n	0.08	0.05	0.08
43386.36	n	0.08	0.05	0.08
43218.78	n	0.08	0.05	0.08
42818.78	n	0.08	0.05	0.08
42418.78	n	0.08	0.05	0.08
42018.78	n	0.08	0.05	0.08
41774.8	n	0.08	0.05	0.08
41539.1	n	0.08	0.05	0.08
41465.66	n	0.08	0.05	0.08
41441.59	Culvert			
41405.38	n	0.08	0.05	0.08
41368.0*	n	0.08	0.05	0.08
41330.7*	n	0.08	0.05	0.08
41293.4*	n	0.08	0.05	0.08
41256.1*	n	0.08	0.05	0.08
41218.78	n	0.08	0.05	0.08
40884.05	n	0.08	0.05	0.08
40418.78	n	0.08	0.05	0.08

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
15477.33	n	0.08	0.05	0.08
15411.72	n	0.08	0.05	0.08
15205.81	n	0.08	0.05	0.08
15182.0*	n	0.08	0.05	0.08
15158.2*	n	0.08	0.05	0.08
15134.4*	n	0.08	0.05	0.08
15110.6*	n	0.08	0.05	0.08
15086.8*	n	0.08	0.05	0.08
15063.05	n	0.08	0.05	0.08
14907.55	n	0.08	0.05	0.08
14773.98	n	0.08	0.05	0.08
14507.55	n	0.08	0.05	0.08
14107.55	n	0.08	0.05	0.08
13707.55	n	0.08	0.05	0.08
13306.32	n	0.08	0.05	0.08
13111.17	n	0.08	0.05	0.08
12893	n	0.08	0.05	0.08
12511.32	n	0.08	0.05	0.08
12037.33	n	0.08	0.05	0.08
11628.61	n	0.08	0.05	0.08
11228.61	n	0.08	0.05	0.08
10828.61	n	0.08	0.05	0.08
10741.93	n	0.08	0.05	0.08
10706	Culvert			
10665.96	n	0.08	0.05	0.08
10428.61	n	0.08	0.05	0.08
10028.61	n	0.08	0.05	0.08
9628.612	n	0.08	0.05	0.08
9228.612	n	0.08	0.05	0.08
8741.269	n	0.08	0.05	0.08
8483.946	n	0.08	0.05	0.08
7238	Culvert			
6738.77	n	0.15	0.07	0.15
6420.92	n	0.15	0.07	0.15
6411.64*	n	0.15	0.07	0.15
6402.37*	n	0.15	0.07	0.15
6393.09*	n	0.15	0.07	0.15
6383.82*	n	0.15	0.07	0.15
6374.54*	n	0.15	0.07	0.15
6365.27*	n	0.15	0.07	0.15
6356.00*	n	0.15	0.07	0.15
6346.727	n	0.15	0.07	0.15

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
32631.79	n	0.08	0.05	0.08
32576.48	n	0.08	0.05	0.08
32537.9*	n	0.08	0.05	0.08
32499.3*	n	0.08	0.05	0.08
32460.7*	n	0.08	0.05	0.08
32422.2	n	0.08	0.05	0.08
32376.64	Culvert			
32335.71	n	0.08	0.05	0.08
32288.3*	n	0.08	0.05	0.08
32241.*	n	0.08	0.05	0.08
32193.6*	n	0.08	0.05	0.08
32146.2*	n	0.08	0.05	0.08
32098.94	n	0.08	0.05	0.08
31698.94	n	0.08	0.05	0.08
31657.1*	n	0.08	0.05	0.08
31615.3*	n	0.08	0.05	0.08
31573.5*	n	0.08	0.05	0.08
31531.79	n	0.08	0.05	0.08
31486	Culvert			
31411.01	n	0.08	0.05	0.08
31375.5*	n	0.08	0.05	0.08
31340.1*	n	0.08	0.05	0.08
31304.66	n	0.08	0.05	0.08
30904.66	n	0.08	0.05	0.08
30742.51	n	0.08	0.05	0.08
28941.08	n	0.08	0.05	0.08
28754.33	n	0.08	0.05	0.08
28478.62	n	0.08	0.05	0.08
28298.89	Culvert			
28137.71	n	0.08	0.07	0.08
28081.78	n	0.08	0.07	0.08
27748.51	n	0.08	0.07	0.08
27350.22	n	0.08	0.07	0.08
26950.22	n	0.08	0.07	0.08
26646.28	n	0.08	0.07	0.08
26550.03	n	0.08	0.07	0.08
26454.7	Culvert			
26366.53	n	0.08	0.07	0.08
26300.77	n	0.08	0.07	0.08
26150.22	n	0.08	0.07	0.08
25750.22	n	0.08	0.07	0.08
25599.02	n	0.08	0.07	0.08

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
40018.78	n	0.08	0.03	0.08
39618.78	n	0.08	0.03	0.08
39218.78	n	0.08	0.03	0.08
38818.78	n	0.08	0.03	0.08
38418.78	n	0.08	0.03	0.08
38018.78	n	0.08	0.03	0.08
37618.78	n	0.08	0.03	0.08
37218.78	n	0.08	0.03	0.08
36914.66	n	0.08	0.03	0.08
36496.14	n	0.08	0.03	0.08
36328.17	n	0.08	0.03	0.08
36128.98	n	0.08	0.03	0.08
36018.78	n	0.08	0.03	0.08
35953.11	n	0.08	0.03	0.08
35609.06	n	0.08	0.03	0.08
35576.41	n	0.08	0.03	0.08
35218.78	n	0.08	0.03	0.08
35054.37	n	0.08	0.03	0.08
35025.09	n	0.08	0.03	0.08
34818.78	n	0.08	0.03	0.08
34639.33	n	0.08	0.03	0.08
34399.04	n	0.08	0.03	0.08
34320.25	n	0.08	0.05	0.08
34018.33	n	0.08	0.05	0.08
33792.91	n	0.08	0.05	0.08
33635.33	n	0.08	0.05	0.08
33235.67	n	0.08	0.05	0.08
32862.6	n	0.08	0.05	0.08
32439.34	n	0.08	0.05	0.08
32034.26	n	0.08	0.05	0.08
31765.2	n	0.08	0.05	0.08
31571.99	n	0.08	0.05	0.08
31384.44	n	0.08	0.03	0.08
31149.9	n	0.08	0.03	0.08
30906.88	n	0.08	0.03	0.08
30466.36	n	0.08	0.03	0.08
30109.14	n	0.08	0.03	0.08
29876.27	n	0.08	0.03	0.08
29632.62	n	0.08	0.03	0.08
29330.53	n	0.08	0.03	0.08
29004.24	n	0.08	0.03	0.08
28833.58	n	0.08	0.03	0.08

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
6320.979	n	0.15	0.07	0.15
6276.979	Bridge			
6210.5	n	0.15	0.07	0.15
6158.16*	n	0.15	0.07	0.15
6105.82*	n	0.15	0.07	0.15
6053.48*	n	0.15	0.07	0.15
6001.15*	n	0.15	0.07	0.15
5948.81*	n	0.15	0.07	0.15
5896.477	n	0.15	0.07	0.15
5551.916	n	0.15	0.07	0.15
5362.949	n	0.15	0.07	0.15
5337.60*	n	0.15	0.07	0.15
5312.26*	n	0.15	0.07	0.15
5286.91*	n	0.15	0.07	0.15
5261.57*	n	0.15	0.07	0.15
5236.23*	n	0.15	0.07	0.15
5210.887	n	0.15	0.07	0.15
5184.12	Bridge			
5159.05	n	0.15	0.07	0.15
5120.029	n	0.15	0.07	0.15
5091.662	n	0.15	0.07	0.15
5035.56	Culvert			
4988.302	n	0.15	0.07	0.15
4971.81*	n	0.15	0.07	0.15
4955.33*	n	0.15	0.07	0.15
4938.84*	n	0.15	0.07	0.15
4922.36*	n	0.15	0.07	0.15
4905.881	n	0.15	0.07	0.15
4751.912	n	0.15	0.07	0.15
4351.913	n	0.15	0.07	0.15
3951.913	n	0.15	0.07	0.15
3849.362	n	0.15	0.07	0.15
3822.34*	n	0.15	0.07	0.15
3795.32*	n	0.15	0.07	0.15
3768.30*	n	0.15	0.07	0.15
3741.28*	n	0.15	0.07	0.15
3714.26	n	0.15	0.07	0.15
3667.171	Culvert			
3619.655	n	0.15	0.07	0.15
3385.78*	n	0.15	0.07	0.15
3151.913	n	0.15	0.07	0.15
2744.492	n	0.15	0.07	0.15

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
25501.42	n	0.08	0.07	0.08
25447.05	n	0.08	0.07	0.08
25383.89	n	0.08	0.07	0.08
25320.79	n	0.08	0.07	0.08
25265.56	n	0.08	0.07	0.08
25173.45	n	0.08	0.07	0.08
24950.22	n	0.08	0.07	0.08
24550.22	n	0.08	0.07	0.08
24161.18	n	0.08	0.07	0.08
24122.58	n	0.08	0.07	0.08
24087.33	n	0.08	0.07	0.08
24032.8	n	0.08	0.07	0.08
23750.22	n	0.08	0.07	0.08
23617.72	n	0.08	0.07	0.08
23513.91	n	0.08	0.07	0.08
23413.07	Culvert			
23316.27	n	0.15	0.07	0.15
23184.63	n	0.15	0.07	0.15
22950.22	n	0.15	0.07	0.15
22550.22	n	0.15	0.07	0.15
22150.22	n	0.15	0.07	0.15
21750.22	n	0.15	0.07	0.15
21732.7*	n	0.15	0.07	0.15
21715.3*	n	0.15	0.07	0.15
21697.9*	n	0.15	0.07	0.15
21680.48	n	0.15	0.07	0.15
21604.86	Culvert			
21520.49	n	0.08	0.07	0.08
21350.22	n	0.08	0.07	0.08
21169.19	n	0.08	0.07	0.08
21150.6*	n	0.08	0.07	0.08
21132.0*	n	0.08	0.07	0.08
21113.4*	n	0.08	0.07	0.08
21094.9*	n	0.08	0.07	0.08
21076.3*	n	0.08	0.07	0.08
21057.78	n	0.08	0.07	0.08
20950.22	n	0.08	0.07	0.08
20786.19	n	0.08	0.07	0.08
20763.13	n	0.08	0.07	0.08
20550.22	n	0.08	0.07	0.08
20452.99	n	0.08	0.07	0.08
20393.38	n	0.08	0.07	0.08

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
28432.62	n	0.08	0.03	0.08
28032.62	n	0.08	0.03	0.08
27507.46	n	0.08	0.05	0.08
27232.62	n	0.08	0.05	0.08
26814.63	n	0.08	0.05	0.08
26425.04	n	0.08	0.05	0.08
25882.64	n	0.08	0.05	0.08
25406.2	n	0.08	0.05	0.08
25024.12	n	0.08	0.05	0.08
24630.32	n	0.08	0.03	0.08
24203.51	n	0.08	0.03	0.08
23803.51	n	0.08	0.03	0.08
23401.38	n	0.08	0.03	0.08
23003.51	n	0.08	0.03	0.08
22594.16	n	0.08	0.03	0.08
22566.37	n	0.08	0.03	0.08
22203.51	n	0.08	0.03	0.08
22188.6*	n	0.08	0.03	0.08
22173.7*	n	0.08	0.03	0.08
22158.9*	n	0.08	0.03	0.08
22144.0*	n	0.08	0.03	0.08
22129.18	n	0.08	0.03	0.08
21948.92	Culvert			
21824.12	n	0.08	0.05	0.08
21801.9*	n	0.08	0.05	0.08
21779.8*	n	0.08	0.05	0.08
21757.6*	n	0.08	0.05	0.08
21735.5*	n	0.08	0.05	0.08
21713.34	n	0.08	0.05	0.08
21430.2	n	0.08	0.05	0.08
21388.91	n	0.08	0.05	0.08
21003.51	n	0.08	0.05	0.08
20603.51	n	0.08	0.05	0.08
20469.47	n	0.08	0.05	0.08
20430.88	n	0.08	0.05	0.08
20203.51	n	0.08	0.05	0.08
20162.9*	n	0.08	0.05	0.08
20122.3*	n	0.08	0.05	0.08
20081.7*	n	0.08	0.05	0.08
20041.14	n	0.08	0.05	0.08
19961.38	Culvert			
19894.2	n	0.08	0.05	0.08

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
2393.844	n	0.15	0.07	0.15
2000	n	0.15	0.07	0.15
1923.28*	n	0.15	0.07	0.15
1846.57*	n	0.15	0.07	0.15
1769.85*	n	0.15	0.07	0.15
1693.141	n	0.15	0.07	0.15
1661.946	Culvert			
1631.806	n	0.08	0.05	0.08
1489.711	n	0.08	0.05	0.08
1199.006	n	0.08	0.05	0.08
800	n	0.08	0.05	0.08
400	n	0.08	0.05	0.08

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
20374.32	n	0.08	0.07	0.08
20291.07	n	0.08	0.07	0.08
20221.25	n	0.08	0.07	0.08
20200.42	n	0.08	0.07	0.08
20150.22	n	0.08	0.07	0.08
19810.83	n	0.08	0.07	0.08
19800.9*	n	0.08	0.068	0.08
19791.1*	n	0.08	0.067	0.08
19781.2*	n	0.08	0.065	0.08
19771.3*	n	0.08	0.064	0.08
19761.5*	n	0.08	0.062	0.08
19751.6*	n	0.08	0.061	0.08
19741.7*	n	0.08	0.059	0.08
19731.9*	n	0.08	0.058	0.08
19722.0*	n	0.08	0.056	0.08
19712.1*	n	0.08	0.055	0.08
19702.3*	n	0.08	0.053	0.08
19692.4*	n	0.08	0.052	0.08
19682.6	n	0.08	0.05	0.08
19619.02	n	0.08	0.05	0.08
19570.53	n	0.08	0.05	0.08
19557.19	n	0.08	0.05	0.08
19477	n	0.08	0.05	0.08
19350.22	n	0.08	0.05	0.08
18950.22	n	0.08	0.05	0.08
18550.22	n	0.08	0.05	0.08
18507.3*	n	0.08	0.05	0.08
18464.4*	n	0.08	0.05	0.08
18421.6*	n	0.08	0.05	0.08
18378.7*	n	0.08	0.05	0.08
18335.8*	n	0.08	0.05	0.08
18292.9*	n	0.08	0.05	0.08
18250.1	n	0.08	0.05	0.08
18205.02	Culvert			
18166.18	n	0.08	0.05	0.08
18119.34	n	0.08	0.05	0.08
18092.76	Culvert			
18065.8	n	0.08	0.07	0.08
18019.2*	n	0.08	0.07	0.08
17972.7*	n	0.08	0.07	0.08
17926.2*	n	0.08	0.07	0.08
17879.6*	n	0.08	0.07	0.08

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
19871.5*	n	0.08	0.05	0.08
19848.8*	n	0.08	0.05	0.08
19826.1*	n	0.08	0.05	0.08
19803.51	n	0.08	0.05	0.08
19403.51	n	0.08	0.05	0.08
19003.51	n	0.08	0.05	0.08
18705.72	n	0.08	0.05	0.08
18654	Mult Open			
18554.84	n	0.08	0.03	0.08
18275.78	n	0.08	0.03	0.08
17889.25	n	0.08	0.03	0.08
17884	Culvert			
17881.36	n	0.08	0.03	0.08
17876	n	0.08	0.03	0.08
17840	Culvert			
17784.85	n	0.15	0.07	0.15
17759.6*	n	0.15	0.07	0.15
17734.3*	n	0.15	0.07	0.15
17709.1*	n	0.15	0.07	0.15
17683.8*	n	0.15	0.07	0.15
17658.61	n	0.15	0.07	0.15
17647.61	Bridge			
17638.04	n	0.15	0.07	0.15
17616.3*	n	0.15	0.07	0.15
17594.5*	n	0.15	0.07	0.15
17572.8*	n	0.15	0.07	0.15
17551.13	n	0.15	0.07	0.15
17517.42	Culvert			
17465.45	n	0.08	0.05	0.08
17443.5*	n	0.08	0.05	0.08
17421.6*	n	0.08	0.05	0.08
17399.67	n	0.08	0.05	0.08
17281.4	n	0.08	0.05	0.08
16985.18	n	0.08	0.05	0.08
16577.83	n	0.08	0.05	0.08
16177.83	n	0.08	0.05	0.08
15777.83	n	0.08	0.05	0.08
15497.53	n	0.08	0.05	0.08
15436.09	n	0.08	0.05	0.08
15417.5*	n	0.08	0.05	0.08
15398.9*	n	0.08	0.05	0.08
15380.4*	n	0.08	0.05	0.08

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
17833.1*	n	0.08	0.07	0.08
17786.62	n	0.08	0.07	0.08
17750.22	n	0.08	0.07	0.08
17731.24	n	0.08	0.07	0.08
17651.3	n	0.08	0.07	0.08
17350.22	n	0.08	0.07	0.08
16950.22	n	0.08	0.07	0.08
16550.22	n	0.08	0.07	0.08
16407.75	n	0.08	0.07	0.08
16357.76	n	0.08	0.07	0.08
16337.02	n	0.08	0.07	0.08
16267.61	n	0.08	0.07	0.08
16120.9	n	0.08	0.07	0.08
15716.56	n	0.15	0.07	0.15
15294	n	0.15	0.07	0.15
14892.58	n	0.15	0.07	0.15
14651.45	n	0.15	0.07	0.15
14543.94	n	0.15	0.07	0.15
14439.95	n	0.15	0.07	0.15
14413.05	n	0.15	0.07	0.15
14408.1*	n	0.15	0.07	0.15
14403.2*	n	0.15	0.07	0.15
14398.3*	n	0.15	0.07	0.15
14393.4*	n	0.15	0.07	0.15
14388.5*	n	0.15	0.07	0.15
14383.59	n	0.15	0.07	0.15
14364.16	Bridge			
14346.1	n	0.15	0.07	0.15
14306.18	n	0.15	0.07	0.15
14253.14	n	0.15	0.07	0.15
14215.6	Culvert			
14171.71	n	0.08	0.03	0.08
14092.03	n	0.08	0.03	0.08
13692.03	n	0.08	0.03	0.08
13292.03	n	0.08	0.03	0.08
13137.37	n	0.08	0.03	0.08
12892.03	n	0.08	0.03	0.08
12554.37	n	0.08	0.03	0.08
12530.1*	n	0.08	0.03	0.08
12505.9*	n	0.08	0.03	0.08
12481.7*	n	0.08	0.03	0.08
12457.47	n	0.08	0.03	0.08

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
15361.8*	n	0.08	0.05	0.08
15343.33	n	0.08	0.05	0.08
15318.93	Culvert			
15286.98	n	0.08	0.05	0.08
15268.7*	n	0.08	0.05	0.08
15250.4*	n	0.08	0.05	0.08
15232.1*	n	0.08	0.05	0.08
15213.92	n	0.08	0.05	0.08
15142.8	n	0.08	0.05	0.08
15098.6*	n	0.08	0.05	0.08
15054.4*	n	0.08	0.05	0.08
15010.3*	n	0.08	0.05	0.08
14966.13	n	0.08	0.05	0.08
14944.59	Mult Open			
14918.08	n	0.08	0.05	0.08
14850.0*	n	0.08	0.05	0.08
14781.9*	n	0.08	0.05	0.08
14713.9*	n	0.08	0.05	0.08
14645.8*	n	0.08	0.05	0.08
14577.83	n	0.08	0.05	0.08
14177.83	n	0.08	0.05	0.08
13823.36	n	0.08	0.05	0.08
13632.58	n	0.08	0.05	0.08
13268.37	n	0.08	0.05	0.08
12937.08	n	0.08	0.05	0.08
12902.31	n	0.08	0.05	0.08
12577.83	n	0.08	0.05	0.08
12177.83	n	0.08	0.05	0.08
11777.83	n	0.08	0.05	0.08
11377.83	n	0.08	0.05	0.08
11046.61	n	0.08	0.05	0.08
10857.54	n	0.08	0.05	0.08
10621.52	n	0.08	0.05	0.08
10574.28	n	0.08	0.05	0.08
10177.83	n	0.08	0.05	0.08
10004.08	n	0.08	0.05	0.08
9970.28*	n	0.08	0.05	0.08
9936.49*	n	0.08	0.05	0.08
9902.69*	n	0.08	0.05	0.08
9868.90*	n	0.08	0.05	0.08
9835.112	n	0.08	0.05	0.08
9806.61	Culvert			

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
12425.19	Culvert			
12396.04	n	0.08	0.03	0.08
12092.03	n	0.08	0.03	0.08
11692.03	n	0.08	0.03	0.08
11551.86	n	0.08	0.03	0.08
11516.82	n	0.08	0.03	0.08
11425.16	n	0.08	0.03	0.08
11146.3	n	0.08	0.03	0.08
10892.03	n	0.08	0.03	0.08
10492.03	n	0.08	0.03	0.08
10092.03	n	0.08	0.03	0.08
9692.031	n	0.08	0.03	0.08
9292.031	n	0.08	0.03	0.08
8887.93	n	0.08	0.03	0.08
8487.736	n	0.08	0.03	0.08
8332.121	n	0.08	0.03	0.08
8304.048	Culvert			
8268.483	n	0.08	0.03	0.08
8223.27*	n	0.08	0.03	0.08
8178.07*	n	0.08	0.03	0.08
8132.86*	n	0.08	0.03	0.08
8087.66	n	0.08	0.03	0.08
7692.03	n	0.08	0.03	0.08
7292.03	n	0.08	0.03	0.08
6892.03	n	0.08	0.03	0.08
6492.03	n	0.08	0.03	0.08
6271.179	n	0.08	0.03	0.08
6243.929	Culvert			
6200.267	n	0.08	0.03	0.08
6092.03	n	0.08	0.03	0.08
5692.03	n	0.08	0.03	0.08
5357.976	n	0.08	0.03	0.08
5333.859	Culvert			
5309.4	n	0.08	0.05	0.08
5003.36	n	0.08	0.05	0.08
4892.03	n	0.08	0.05	0.08
4492.03	n	0.08	0.05	0.08
4119.845	n	0.08	0.05	0.08
3922.506	n	0.08	0.05	0.08
3847.389	n	0.08	0.05	0.08
3840	Lat Struct			
3691.183	n	0.08	0.05	0.08

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
9776.876	n	0.08	0.05	0.08
9737.71*	n	0.08	0.05	0.08
9698.55*	n	0.08	0.05	0.08
9659.39*	n	0.08	0.05	0.08
9620.23*	n	0.08	0.05	0.08
9581.077	n	0.08	0.05	0.08
9442.913	n	0.08	0.05	0.08
9377.833	n	0.08	0.05	0.08
9076.212	n	0.08	0.05	0.08
9038.543	n	0.08	0.05	0.08
8864.996	n	0.08	0.05	0.08
8577.833	n	0.08	0.05	0.08
8550.10*	n	0.08	0.05	0.08
8522.37*	n	0.08	0.05	0.08
8494.64*	n	0.08	0.05	0.08
8466.917	n	0.08	0.05	0.08
8435.27	Culvert			
8403.688	n	0.08	0.05	0.08
8368.43*	n	0.08	0.05	0.08
8333.18*	n	0.08	0.05	0.08
8297.92*	n	0.08	0.05	0.08
8262.67*	n	0.08	0.05	0.08
8227.417	n	0.08	0.05	0.08
7777.832	n	0.08	0.05	0.08
7614.436	n	0.08	0.05	0.08
7377.832	n	0.08	0.05	0.08
7135.927	n	0.08	0.05	0.08
6927.82	n	0.08	0.05	0.08
6678.024	n	0.08	0.05	0.08
6485.523	n	0.08	0.05	0.08
6451.52	n	0.08	0.05	0.08
6177.403	n	0.08	0.05	0.08
5998.479	n	0.08	0.05	0.08
5863.168	n	0.08	0.05	0.08
5837.669	n	0.08	0.05	0.08
5761.531	n	0.08	0.05	0.08
5566.663	n	0.08	0.05	0.08
5544.6	n	0.08	0.05	0.08
5525.06*	n	0.08	0.05	0.08
5505.53*	n	0.08	0.05	0.08
5485.99*	n	0.08	0.05	0.08
5466.45*	n	0.08	0.05	0.08

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
3541.746	n	0.08	0.05	0.08
3510.294	n	0.08	0.05	0.08
3391.142	n	0.08	0.05	0.08
3292.03	n	0.08	0.05	0.08
2845.056	n	0.08	0.05	0.08
2814.937	n	0.08	0.05	0.08
2791.836	n	0.08	0.05	0.08
2768.694	n	0.08	0.05	0.08
2734.887	n	0.08	0.05	0.08
2623.993	n	0.08	0.05	0.08
2400	n	0.08	0.05	0.08
2239.262	n	0.08	0.05	0.08
2193.74	n	0.08	0.05	0.08
2166.781	n	0.08	0.05	0.08
2136.729	n	0.08	0.05	0.08
2107.71	n	0.08	0.05	0.08
2073.649	Culvert			
2032.349	n	0.08	0.03	0.08
1984.905	n	0.08	0.03	0.08
1599.971	n	0.08	0.03	0.08
1286.198	n	0.08	0.03	0.08
1221.072	n	0.08	0.03	0.08
1163.529	n	0.08	0.03	0.08
1111.341	n	0.08	0.03	0.08
1008.56	n	0.08	0.03	0.08
961.3436	n	0.08	0.03	0.08
933.4749	n	0.08	0.03	0.08
878.9512	n	0.08	0.03	0.08
799.5139	n	0.08	0.03	0.08

**Falcon DBPS
Manning's n Values**

West Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3
5446.92*	n	0.08	0.05	0.08
5427.389	n	0.08	0.05	0.08
5398.42	Culvert			
5379.875	n	0.15	0.07	0.15
5249.459	n	0.15	0.07	0.15
4939.985	n	0.15	0.07	0.15
4838.839	n	0.15	0.07	0.15
4753.93	n	0.15	0.07	0.15
4577.833	n	0.15	0.07	0.15
4290.608	n	0.15	0.07	0.15
4034.844	n	0.08	0.05	0.08
3777.832	n	0.08	0.05	0.08
3377.832	n	0.08	0.05	0.08
2977.832	n	0.08	0.05	0.08
2577.832	n	0.08	0.05	0.08
2345.77	n	0.08	0.05	0.08
2032.471	n	0.08	0.05	0.08
1777.832	n	0.08	0.05	0.08
1691.543	n	0.08	0.05	0.08
1408.459	n	0.08	0.05	0.08
1013.077	n	0.08	0.05	0.08
619.9514	n	0.08	0.05	0.08
388.339	n	0.08	0.05	0.08
357.5013	n	0.08	0.05	0.08

Middle Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3

East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3

**Falcon DBPS
Steady Flow Data**

West Tributary

Hydrologic Element	HEC-RAS Section	Existing Peak Flows (cfs)						Future Peak Flows (cfs)					
		2-yr	5-yr	10-yr	25-yr	50-yr	100-yr	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
JWT 010	47452.3	9	21	32	58	73	89	9	21	32	58	73	89
JWT 042	47079.4	15	37	57	110	140	170	15	37	57	110	140	170
JWT 044	45564.8	24	59	89	170	210	260	24	59	89	170	210	260
JWT 050	42418.0	43	110	170	310	390	480	43	110	170	310	390	480
JWT 090	40018.0	67	160	250	470	600	740	68	160	250	480	610	730
JWT 120	36496.2	84	190	300	570	740	910	85	190	300	570	730	920
JWT 172	34399.0	90	210	320	600	760	930	99	210	320	600	760	960
JWT 180	31149.0	0	15	130	420	590	770	100	220	330	620	800	1000
JWT 200	27507.0	14	32	150	470	670	880	110	230	360	690	890	1200
JWT 210	24630.0	21	50	170	510	720	950	85	210	390	780	950	1100
JWT 234	21713.0	50	93	180	540	760	1000	130	270	420	810	1100	1400
Pond WU North Inflow	19803.0	65	120	186	548	769	1017	128	272	423	813	1054	1398
Pond WU South Inflow	18554.8	14	46	97	508	727	972	83	235	385	773	1013	1347
JWT 240	17784.0	26	54	86	410	670	890	83	200	380	770	940	1100
JWT 260	17399.7	47	92	130	420	690	910	86	210	390	790	970	1100
RWT 295	14577.8	49	97	130	430	690	910	86	210	390	790	970	1100
JWT 310	13268.4	120	230	370	730	1000	1300	160	420	640	1100	1400	1700
JWT 320	10574.0	120	250	370	740	1000	1300	160	410	630	1100	1400	1700
RWT 352 + WT350	8227.4	146	295	440	870	1170	1510	198	479	730	1290	1630	1980
JWT 352	5544.6	160	320	520	1000	1400	1900	210	530	820	1400	2000	2400
JWT 374_OUT	5379.9	190	400	600	1200	1500	1900	230	560	860	1500	2000	2500

Middle Tributary

Hydrologic Element	HEC-RAS Section	Existing Peak Flows (cfs)						Future Peak Flows (cfs)					
		2-yr	5-yr	10-yr	25-yr	50-yr	100-yr	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
JMT 010	15477.3	1	11	25	62	120	160	1	11	25	62	120	160
RMT 62 + MT 60	14907.6	9	32	58	124	190	259	31	70	108	202	280	360
JMT 070	9628.6	61	180	280	510	630	760	150	350	490	800	980	1200
Reg Pond MN Inflow	6738.8	65	180	289	514	644	776	151	360	495	813	991	1184
JMT 080	6346.7	40	110	260	510	640	770	86	330	490	810	980	1200
RMT 102	6210.5	40	110	260	510	640	770	86	320	490	800	980	1200
JMT 106	5363	45	120	260	530	660	800	92	320	490	820	1000	1200
JMT 110	4905.9	46	120	260	540	680	820	94	320	500	830	1000	1200
RMT 114	1489.7	46	120	260	540	670	820	94	320	500	830	1000	1200

**Falcon DBPS
Steady Flow Data**

East Tributary

Hydrologic Element	HEC-RAS Section	Existing Peak Flows (cfs)						Future Peak Flows (cfs)					
		2-yr	5-yr	10-yr	25-yr	50-yr	100-yr	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
ET 010	32631.8	25	47	64	100	130	150	38	67	90	140	170	200
JET 020	31304.7	44	85	120	190	240	280	74	130	170	270	330	390
JET 030	26646.3	65	130	190	310	380	460	97	180	250	410	500	580
WH POND #1 NORTH INFLOW	23184.6	68	149	211	359	445	534	104	204	284	473	583	693
WH POND #2 INFLOW	21057.8	37	67	115	265	393	489	37	89	147	385	507	585
WH POND #3 INFLOW	19619	105	186	246	380	454	529	105	186	246	380	454	558
JET 070	17786.6	94	170	220	350	420	490	94	170	220	350	420	480
WH POND #4 INFLOW	15716.6	111	222	308	507	627	761	114	193	274	474	589	712
JET 090	14440	15	39	64	170	270	370	26	47	81	200	290	390
JET 100	14092	15	40	65	170	270	380	27	49	83	200	290	390
JET 110	12092	16	43	76	180	300	410	40	85	120	210	320	440
JET 120	9292	17	48	84	190	320	430	49	110	160	270	340	450
JET 154	8087.7	31	91	140	300	450	590	62	140	200	370	530	680
JET 160	5003.4	32	96	150	320	470	620	66	150	230	410	550	710
RET 164	1984.9	32	96	150	310	470	620	66	150	230	410	550	710

Middle Trib and East Trib Boundary Conditions

East Trib. Confluence with West Trib: XS 5863 (WT)

- West Trib 100-yr WSE:
 - Existing = 6,665.64
 - Future = 6,665.65
- East Trib 100-yr Normal Depth WSE at DS Boundary (s = 1.24%):
 - Existing = 6,669.10 (6,668.71 with reduced flow rate for flow split)
 - Future = 6,669.16 (6,668.74 with reduced flow rate for flow split)
- Conclusion: East Trib normal depth is higher than West Trib WSE. **Normal depth** should be used as boundary condition.

Middle Trib. Confluence with West Trib: XS 13,632.58 (WT)

- West Trib 100-yr WSE:
 - Existing = 6,762.61
 - Future = 6,762.83
- Middle Trib 100-yr Normal Depth WSE at DS Boundary (s = 1.70%):
 - Existing = 6,761.11
 - Future = 6,761.55
- Conclusion: West Trib WSE is higher than normal depth in Middle Trib at confluence by ~1.5'. **West Trib WSEs** should be used as boundary condition.

By: Matt Simpson
Date: 11-10-2011 (Updated 12-20-2011)

West Tributary WSEs to use for Middle Tributary DS Boundary:

WT Future WSE (13,632.58):

Reach	River Sta	Profile	W.S. Elev
WestTrib	13632.58	2-yr	6760.77
WestTrib	13632.58	5-yr	6761.37
WestTrib	13632.58	10-yr	6761.84
WestTrib	13632.58	25-yr	6762.45
WestTrib	13632.58	50-yr	6762.67
WestTrib	13632.58	100-yr	6762.83

WT Existing WSE (13,632.58):

Reach	River Sta	Profile	W.S. Elev
WestTrib	13632.58	2-yr	6760.54
WestTrib	13632.58	5-yr	6760.82
WestTrib	13632.58	10-yr	6760.99
WestTrib	13632.58	25-yr	6761.91
WestTrib	13632.58	50-yr	6762.32
WestTrib	13632.58	100-yr	6762.61

Falcon DBPS

West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	47452.25	2-yr		9		7410.2	7410.59	7410.57	7410.67	0.057877	2.38	3.78	19.64	0.96	1.76	0.69
WestTrib	47452.25	5-yr		21		7410.2	7410.74	7410.74	7410.85	0.059512	2.66	7.9	35.51	0.99	1.78	0.83
WestTrib	47452.25	10-yr		32		7410.2	7410.82	7410.82	7410.95	0.060295	2.96	10.83	41.98	1.03	1.72	0.97
WestTrib	47452.25	25-yr		58		7410.2	7410.96	7410.96	7411.13	0.056237	3.32	17.45	53.8	1.03	1.59	1.14
WestTrib	47452.25	50-yr		73		7410.2	7411.02	7411.02	7411.21	0.052171	3.42	21.35	59.69	1.01	1.52	1.16
WestTrib	47452.25	100-yr		89		7410.2	7411.08	7411.08	7411.28	0.051479	3.56	24.97	64.94	1.01	1.45	1.23
WestTrib	47423.5*	2-yr		9		7408.46	7408.83	7408.83	7408.92	0.06487	2.4	3.75	20.92	1	1.71	0.72
WestTrib	47423.5*	5-yr		21		7408.46	7408.97	7408.97	7409.08	0.064271	2.66	7.88	37.45	1.02	0.05	0.84
WestTrib	47423.5*	10-yr		32		7408.46	7409.05	7409.05	7409.17	0.059416	2.86	11.18	45.01	1.01	0.06	0.92
WestTrib	47423.5*	25-yr		58		7408.46	7409.18	7409.18	7409.34	0.054376	3.24	17.92	56.12	1.01	0.1	1.08
WestTrib	47423.5*	50-yr		73		7408.46	7409.24	7409.24	7409.42	0.05383	3.44	21.25	60.38	1.02	0.12	1.18
WestTrib	47423.5*	100-yr		89		7408.46	7409.3	7409.3	7409.49	0.049503	3.55	25.04	63.48	1	0.14	1.22
WestTrib	47394.8*	2-yr		9		7406.72	7407.1	7407.09	7407.16	0.05461	1.97	4.56	30.12	0.89	1.77	0.52
WestTrib	47394.8*	5-yr		21		7406.72	7408.11		7408.11	0.000148	0.32	66.51	81.27	0.06	0	0.01
WestTrib	47394.8*	10-yr		32		7406.72	7408.19		7408.2	0.000255	0.43	73.74	84.24	0.08	0	0.01
WestTrib	47394.8*	25-yr		58		7406.72	7408.33		7408.34	0.000553	0.68	85.71	89.84	0.12	0	0.03
WestTrib	47394.8*	50-yr		73		7406.72	7408.39		7408.4	0.000735	0.8	91.41	92.54	0.14	0.01	0.05
WestTrib	47394.8*	100-yr		89		7406.72	7408.45		7408.46	0.000934	0.92	96.86	95.05	0.16	0.01	0.06
WestTrib	47366.1*	2-yr		9		7404.98	7405.33	7405.33	7405.39	0.069848	2.11	4.27	30.72	1	0.04	0.61
WestTrib	47366.1*	5-yr	0.06	20.91	0.03	7404.98	7408.11		7408.11	0.000003	0.1	223.24	98.43	0.01	0	0
WestTrib	47366.1*	10-yr	0.11	31.84	0.05	7404.98	7408.19		7408.19	0.000007	0.14	231.86	98.92	0.02	0	0
WestTrib	47366.1*	25-yr	0.24	57.65	0.12	7404.98	7408.33		7408.33	0.000018	0.24	245.68	99.69	0.03	0	0
WestTrib	47366.1*	50-yr	0.32	72.52	0.16	7404.98	7408.4		7408.4	0.000027	0.3	251.92	100.04	0.03	0	0
WestTrib	47366.1*	100-yr	0.42	88.38	0.2	7404.98	7408.45		7408.46	0.000037	0.35	257.84	100.36	0.04	0	0.01
WestTrib	47337.4*	2-yr		9		7403.24	7404.34	7403.55	7404.34	0.000077	0.21	43.26	60.77	0.04	0	0
WestTrib	47337.4*	5-yr	0.2	20.69	0.11	7403.24	7408.11	7403.66	7408.11	0.000001	0.06	371.79	98.63	0.01	0	0
WestTrib	47337.4*	10-yr	0.32	31.51	0.17	7403.24	7408.19	7403.74	7408.19	0.000001	0.09	380.48	99.03	0.01	0	0
WestTrib	47337.4*	25-yr	0.63	57.04	0.33	7403.24	7408.33	7403.87	7408.33	0.000004	0.15	394.25	99.67	0.01	0	0
WestTrib	47337.4*	50-yr	0.81	71.76	0.43	7403.24	7408.4	7403.92	7408.4	0.000006	0.19	400.54	99.95	0.02	0	0
WestTrib	47337.4*	100-yr	1.02	87.48	0.5	7403.24	7408.45	7403.99	7408.46	0.000008	0.23	406.41	100.93	0.02	0	0
WestTrib	47308.71	2-yr		9		7401.5	7404.34	7401.82	7404.34	0.000008	0.16	56.79	82.41	0.02		0
WestTrib	47308.71	5-yr	0.33	20.4	0.27	7401.5	7408.11	7402.02	7408.11	0	0.04	532.04	153.26	0		0
WestTrib	47308.71	10-yr	0.52	31	0.48	7401.5	7408.19	7402.12	7408.19	0	0.07	545.54	154.06	0.01		0
WestTrib	47308.71	25-yr	0.97	55.93	1.1	7401.5	7408.33	7402.31	7408.33	0.000001	0.12	567.07	155.33	0.01		0
WestTrib	47308.71	50-yr	1.24	70.24	1.52	7401.5	7408.4	7402.41	7408.4	0.000002	0.14	576.79	155.9	0.01		0
WestTrib	47308.71	100-yr	1.54	85.46	2.01	7401.5	7408.45	7402.5	7408.45	0.000003	0.17	585.94	156.43	0.02		0

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	47262		Culvert													
WestTrib	47224.28	2-yr		9		7400.63	7401.17	7401.17	7401.3	0.051606	2.85	3.16	11.44	0.96	7.75	0.88
WestTrib	47224.28	5-yr		21		7400.63	7401.39	7401.39	7401.57	0.049322	3.46	6.06	15.88	0.99	6.9	1.17
WestTrib	47224.28	10-yr		32		7400.63	7401.51	7401.51	7401.75	0.050153	3.87	8.27	18.55	1.02	6.76	1.39
WestTrib	47224.28	25-yr		58		7400.63	7401.78	7401.78	7402.05	0.042725	4.12	14.07	25.48	0.98	6.21	1.47
WestTrib	47224.28	50-yr		73		7400.63	7401.89	7401.89	7402.18	0.042069	4.25	17.16	29.32	0.98	6.01	1.53
WestTrib	47224.28	100-yr		89		7400.63	7401.99	7401.99	7402.29	0.040745	4.43	20.11	32.57	0.98	5.93	1.61
WestTrib	47079.43	2-yr		15		7392.78	7393.38	7393.38	7393.56	0.054487	3.34	4.5	13.41	1.02		1.13
WestTrib	47079.43	5-yr		37		7392.78	7393.68	7393.68	7393.93	0.046548	3.99	9.27	18.78	1	4.58	1.43
WestTrib	47079.43	10-yr		57		7392.78	7393.87	7393.87	7394.16	0.044693	4.32	13.2	23.02	1.01	4.82	1.59
WestTrib	47079.43	25-yr		110		7392.78	7394.21	7394.21	7394.58	0.042686	4.84	22.75	32.36	1.02	5.03	1.86
WestTrib	47079.43	50-yr		140		7392.78	7394.36	7394.36	7394.75	0.040828	5.01	27.94	36.45	1.01	5.01	1.94
WestTrib	47079.43	100-yr		170		7392.78	7394.48	7394.48	7394.91	0.040699	5.23	32.51	39.7	1.02	5.18	2.07
WestTrib	46818.78	2-yr		15		7384.39	7384.93	7384.93	7385.06	0.059518	2.95	5.09	19.56	1.02		0.96
WestTrib	46818.78	5-yr		37		7384.39	7385.44	7385.16	7385.5	0.008998	1.96	18.89	32.54	0.45	7.88	0.33
WestTrib	46818.78	10-yr		57		7384.39	7385.6	7385.3	7385.69	0.009871	2.33	24.49	34.87	0.49	7.98	0.43
WestTrib	46818.78	25-yr		110		7384.39	7385.95		7386.08	0.010714	2.94	37.37	39.75	0.54	8.14	0.63
WestTrib	46818.78	50-yr		140		7384.39	7386.11		7386.27	0.010899	3.19	43.94	42.03	0.55	8.22	0.71
WestTrib	46818.78	100-yr		170		7384.39	7386.24		7386.42	0.011475	3.44	49.43	43.81	0.57	8.3	0.8
WestTrib	46418.78	2-yr		12.46	2.54	7377.22	7377.41	7377.41	7377.48	0.076519	2.18	8.01	64.73	1.02	6.46	0.59
WestTrib	46418.78	5-yr		29.54	7.46	7377.22	7377.51	7377.51	7377.63	0.072436	2.97	14.7	71.06	1.06	6.96	0.94
WestTrib	46418.78	10-yr	0.02	44.23	12.75	7377.22	7377.6	7377.6	7377.73	0.062682	3.17	21.23	84.91	1.03	6.89	0.98
WestTrib	46418.78	25-yr	1.15	83.51	25.34	7377.22	7377.75	7377.75	7377.94	0.052411	3.88	34.98	95.15	1.02	7	1.2
WestTrib	46418.78	50-yr	2.11	105.15	32.74	7377.22	7377.81	7377.81	7378.04	0.052187	4.25	41.24	99	1.05	7.12	1.36
WestTrib	46418.78	100-yr	3.38	126.17	40.46	7377.22	7377.88	7377.88	7378.13	0.04812	4.46	48.4	103.23	1.03	7.01	1.41
WestTrib	46207.62	2-yr		15		7367.84	7368.73	7368.56	7368.8	0.016352	2.2	6.81	15.33	0.58	5.36	0.45
WestTrib	46207.62	5-yr		37		7367.84	7369.06	7368.86	7369.19	0.018737	2.9	12.74	20.96	0.66	5.59	0.71
WestTrib	46207.62	10-yr		57		7367.84	7369.25	7369.06	7369.42	0.019939	3.3	17.25	24.51	0.69	5.73	0.87
WestTrib	46207.62	25-yr		110		7367.84	7369.59	7369.41	7369.86	0.022804	4.17	26.35	29.15	0.77	5.96	1.28
WestTrib	46207.62	50-yr	0.02	139.98		7367.84	7369.74	7369.57	7370.06	0.023527	4.57	30.69	31.09	0.81	6.06	1.44
WestTrib	46207.62	100-yr	0.13	169.85	0.02	7367.84	7369.85	7369.71	7370.24	0.024196	4.98	34.36	32.66	0.85	6.14	1.58
WestTrib	46026.9	2-yr		15		7363.08	7363.37	7363.37	7363.44	0.069538	2.12	7.06	50.05	1	0.03	0.61
WestTrib	46026.9	5-yr		37		7363.08	7363.49	7363.49	7363.6	0.06019	2.66	13.92	63.22	1	0.07	0.83
WestTrib	46026.9	10-yr		57		7363.08	7363.57	7363.57	7363.7	0.057661	2.96	19.23	71.76	1.01	0.1	0.96
WestTrib	46026.9	25-yr		110		7363.08	7363.73	7363.73	7363.91	0.051226	3.42	32.18	88.76	1	0.21	1.16
WestTrib	46026.9	50-yr		140		7363.08	7363.8	7363.8	7364	0.050828	3.6	38.89	98.66	1.01	0.27	1.25

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	46026.9	100-yr		170		7363.08	7363.86	7363.86	7364.08	0.05026	3.8	44.7	103.55	1.02	0.33	1.35
WestTrib	45892.82	2-yr	0.02	14.93	0.04	7359.67	7362.13		7362.13	0.000014	0.15	104.12	74.98	0.02	0	0
WestTrib	45892.82	5-yr	0.08	36.76	0.16	7359.67	7362.24		7362.25	0.000066	0.34	112.57	76.74	0.05	0	0.01
WestTrib	45892.82	10-yr	0.16	56.53	0.3	7359.67	7362.33		7362.33	0.000132	0.49	119.18	78.09	0.07	0	0.01
WestTrib	45892.82	25-yr	0.49	108.63	0.88	7359.67	7362.51		7362.52	0.00035	0.86	133.67	80.97	0.12	0.01	0.04
WestTrib	45892.82	50-yr	0.74	137.95	1.31	7359.67	7362.6		7362.61	0.000488	1.04	140.69	82.33	0.14	0.01	0.05
WestTrib	45892.82	100-yr	1.04	167.16	1.81	7359.67	7362.67		7362.7	0.000631	1.21	147.08	83.55	0.16	0.01	0.07
WestTrib	45796.67	2-yr	0.82	12.75	1.43	7355.67	7362.13	7356.68	7362.13	0	0.05	392.02	138.28	0		0
WestTrib	45796.67	5-yr	2.13	31.22	3.65	7355.67	7362.25	7357	7362.25	0.000002	0.12	407.6	140.42	0.01		0
WestTrib	45796.67	10-yr	3.4	47.83	5.77	7355.67	7362.33	7357.17	7362.33	0.000005	0.18	419.67	142.06	0.02		0
WestTrib	45796.67	25-yr	7.06	91.22	11.72	7355.67	7362.51	7357.56	7362.52	0.000015	0.33	446.15	145.59	0.03		0
WestTrib	45796.67	50-yr	9.29	115.46	15.25	7355.67	7362.6	7357.7	7362.6	0.000023	0.4	458.94	147.26	0.04		0
WestTrib	45796.67	100-yr	11.6	139.52	18.88	7355.67	7362.68	7357.88	7362.68	0.000032	0.48	470.51	148.76	0.04		0.01
WestTrib	45766.17		Culvert													
WestTrib	45708.32	2-yr		15		7353.69	7354.49	7354.49	7354.7	0.051554	3.63	4.13	10.32	1.01	3.11	1.27
WestTrib	45708.32	5-yr		37		7353.69	7354.84	7354.84	7355.13	0.044878	4.32	8.57	14.87	1	3.38	1.59
WestTrib	45708.32	10-yr		57		7353.69	7355.24	7355.07	7355.45	0.022188	3.7	15.42	19.95	0.74	3.71	1.06
WestTrib	45708.32	25-yr		110		7353.69	7355.7	7355.47	7355.98	0.020141	4.23	26.01	25.53	0.74	3.61	1.26
WestTrib	45708.32	50-yr		140		7353.69	7355.88	7355.66	7356.2	0.020748	4.56	30.69	27.48	0.76	3.59	1.42
WestTrib	45708.32	100-yr		170		7353.69	7356.04	7355.82	7356.4	0.020983	4.82	35.3	29.36	0.77	3.53	1.55
WestTrib	45564.77	2-yr		24		7349.48	7350.81	7350.54	7350.92	0.014295	2.66	9.01	13.56	0.58	8.94	0.58
WestTrib	45564.77	5-yr		59		7349.48	7351.29	7351	7351.48	0.016797	3.54	16.65	18.44	0.66	9.21	0.93
WestTrib	45564.77	10-yr		89		7349.48	7351.41	7351.27	7351.75	0.028106	4.7	18.95	20.24	0.86	9.29	1.61
WestTrib	45564.77	25-yr		170		7349.48	7351.93	7351.82	7352.38	0.028695	5.36	31.7	28.32	0.89	9.54	1.97
WestTrib	45564.77	50-yr		210		7349.48	7352.14	7352.02	7352.61	0.027924	5.55	37.83	31.47	0.89	9.63	2.06
WestTrib	45564.77	100-yr		260		7349.48	7352.36	7352.22	7352.87	0.026889	5.73	45.34	34.94	0.89	9.71	2.14
WestTrib	45218.78	2-yr		24		7341.36	7341.85	7341.85	7341.98	0.060057	2.82	8.51	35.3	1.01		0.9
WestTrib	45218.78	5-yr	0.13	58.74	0.13	7341.36	7342.06	7342.06	7342.26	0.048485	3.67	16.39	44.11	1.06		1.12
WestTrib	45218.78	10-yr	2.01	86.29	0.7	7341.36	7342.28	7342.2	7342.46	0.025402	3.52	27.43	55.24	0.87	9.78	0.79
WestTrib	45218.78	25-yr	10.12	157.2	2.68	7341.36	7342.55	7342.48	7342.84	0.026255	4.52	44.1	68.69	0.96	9.75	1.05
WestTrib	45218.78	50-yr	15.91	190.21	3.89	7341.36	7342.64	7342.61	7342.99	0.027507	4.95	50.88	71.76	0.99	9.75	1.22
WestTrib	45218.78	100-yr	24.03	230.41	5.56	7341.36	7342.75	7342.74	7343.16	0.029133	5.44	58.45	74.43	1.03	9.76	1.43
WestTrib	44818.78	2-yr		24		7331.17	7331.74	7331.74	7331.93	0.051582	3.52	6.82	18.02	1.01		1.21
WestTrib	44818.78	5-yr		59		7331.17	7332.21	7332.06	7332.41	0.022494	3.55	16.61	23.15	0.74	8.2	1
WestTrib	44818.78	10-yr	0.05	88.95		7331.17	7332.43	7332.27	7332.69	0.023538	4.07	22.06	35.99	0.92	8.15	0.89

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	44818.78	25-yr	19.65	150.35		7331.17	7332.8	7332.78	7333.1	0.02267	4.67	47.94	82.6	1.02	7.94	0.82
WestTrib	44818.78	50-yr	34.56	175.44		7331.17	7332.94	7332.9	7333.25	0.021695	4.8	60.33	92.72	0.97	7.84	0.88
WestTrib	44818.78	100-yr	55.01	204.99		7331.17	7333.1	7333.02	7333.41	0.020603	4.91	76.22	107.91	0.93	7.75	0.91
WestTrib	44499.26	2-yr		24		7322.18	7323.41	7323.34	7323.63	0.035359	3.78	6.34	11.04	0.88	1.87	1.23
WestTrib	44499.26	5-yr		59		7322.18	7323.93	7323.81	7324.21	0.029476	4.28	13.8	17.55	0.85	2.01	1.41
WestTrib	44499.26	10-yr		89		7322.18	7324.22	7324.08	7324.54	0.02768	4.59	19.38	21.15	0.85	2.08	1.55
WestTrib	44499.26	25-yr		170		7322.18	7324.74	7324.61	7325.17	0.027265	5.27	32.24	28.38	0.87	2.24	1.9
WestTrib	44499.26	50-yr		210		7322.18	7324.93	7324.8	7325.41	0.027826	5.54	37.92	31.52	0.89	2.3	2.05
WestTrib	44499.26	100-yr		260		7322.18	7325.12	7325.03	7325.66	0.028804	5.87	44.32	34.72	0.92	2.37	2.26
WestTrib	44418.78	2-yr		24		7320.5	7321.67	7321.46	7321.76	0.015852	2.43	9.86	18.6	0.59	7.81	0.52
WestTrib	44418.78	5-yr		59		7320.5	7322.02	7321.84	7322.2	0.020796	3.36	17.54	24.97	0.71	7.99	0.9
WestTrib	44418.78	10-yr	0.11	88.89		7320.5	7322.22	7322.05	7322.46	0.02362	3.91	22.99	31.97	0.81	8.09	1.05
WestTrib	44418.78	25-yr	4.9	165.1		7320.5	7322.58	7322.51	7322.93	0.027835	4.84	38.3	53.24	0.99	8.22	1.24
WestTrib	44418.78	50-yr	10.02	199.98		7320.5	7322.71	7322.67	7323.1	0.028729	5.13	45.96	60.23	1.01	8.23	1.36
WestTrib	44418.78	100-yr	17.49	242.5	0.01	7320.5	7322.85	7322.83	7323.29	0.029387	5.47	54.77	67.62	1.04	8.27	1.48
WestTrib	44018.78	2-yr		24		7313.17	7313.89		7313.95	0.024605	1.96	12.27	45.06	0.66	7.43	0.42
WestTrib	44018.78	5-yr		59		7313.17	7314.13	7314	7314.21	0.019092	2.31	25.57	60.6	0.63	7.38	0.5
WestTrib	44018.78	10-yr		89		7313.17	7314.27	7314.1	7314.37	0.017359	2.6	34.29	63.42	0.62	7.37	0.58
WestTrib	44018.78	25-yr		170		7313.17	7314.57	7314.33	7314.72	0.015595	3.14	54.13	69.41	0.63	7.36	0.76
WestTrib	44018.78	50-yr		210		7313.17	7314.69		7314.86	0.015256	3.35	62.72	71.85	0.63	7.36	0.83
WestTrib	44018.78	100-yr		260		7313.17	7314.82		7315.02	0.015121	3.58	72.55	74.54	0.64	7.39	0.92
WestTrib	43618.78	2-yr		24		7305.88	7306.48	7306.33	7306.53	0.014607	1.83	13.09	35.83	0.53	3.88	0.33
WestTrib	43618.78	5-yr		59		7305.88	7306.73		7306.83	0.017836	2.51	23.55	46.93	0.62	3.96	0.56
WestTrib	43618.78	10-yr		89		7305.88	7306.88	7306.7	7307.01	0.019575	2.89	30.85	53.32	0.67	3.99	0.71
WestTrib	43618.78	25-yr	0.02	169.98		7305.88	7307.18		7307.36	0.022017	3.42	49.79	76.36	0.75	4.02	0.9
WestTrib	43618.78	50-yr	0.52	209.48		7305.88	7307.3		7307.5	0.022583	3.58	59.46	92.57	0.79	4.02	0.9
WestTrib	43618.78	100-yr	2.16	257.84		7305.88	7307.42		7307.63	0.023056	3.74	71.65	109.86	0.81	3.98	0.94
WestTrib	43453.91	2-yr		24		7301.97	7302.58	7302.55	7302.65	0.044163	2.13	11.27	56.45	0.84	2.1	0.55
WestTrib	43453.91	5-yr		59		7301.97	7302.75	7302.72	7302.87	0.03413	2.75	21.43	60.07	0.81	1.98	0.76
WestTrib	43453.91	10-yr		89		7301.97	7302.87	7302.8	7303.02	0.030636	3.11	28.66	61.86	0.8	1.93	0.88
WestTrib	43453.91	25-yr	0	169.96	0.04	7301.97	7303.12	7303.02	7303.35	0.027117	3.82	44.55	65.43	0.82	1.87	1.15
WestTrib	43453.91	50-yr	0.05	209.81	0.15	7301.97	7303.22	7303.12	7303.48	0.026254	4.12	51.24	66.78	0.83	1.85	1.25
WestTrib	43453.91	100-yr	0.22	259.39	0.39	7301.97	7303.34	7303.22	7303.64	0.025233	4.43	59.25	68.38	0.84	1.84	1.36
WestTrib	43386.36	2-yr		24		7299.45	7300.46	7300.35	7300.55	0.023122	2.31	10.38	27.95	0.67	5.66	0.53
WestTrib	43386.36	5-yr		59		7299.45	7300.74	7300.62	7300.88	0.025357	3.02	19.56	37.97	0.74	5.63	0.81
WestTrib	43386.36	10-yr		89		7299.45	7300.9	7300.78	7301.08	0.026691	3.42	26.03	43.58	0.78	5.61	0.98

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	43386.36	25-yr	0.02	169.87	0.11	7299.45	7301.19	7301.09	7301.47	0.028076	4.28	39.97	53.96	0.88	5.54	1.29
WestTrib	43386.36	50-yr	0.1	209.31	0.6	7299.45	7301.29	7301.21	7301.63	0.028471	4.67	45.77	57.94	0.92	5.5	1.39
WestTrib	43386.36	100-yr	0.27	257.83	1.89	7299.45	7301.4	7301.34	7301.81	0.029194	5.12	52.5	60.62	0.96	5.47	1.56
WestTrib	43218.78	2-yr		24		7294.2	7294.74	7294.74	7294.89	0.053834	3.12	7.69	25.18	1	4.54	1.02
WestTrib	43218.78	5-yr		59		7294.2	7294.99	7294.99	7295.24	0.046436	4.01	14.7	29.58	1	4.57	1.44
WestTrib	43218.78	10-yr		89		7294.2	7295.17	7295.17	7295.47	0.042954	4.45	20.01	32.51	1	4.53	1.65
WestTrib	43218.78	25-yr		170		7294.2	7295.52	7295.52	7295.94	0.039207	5.24	32.46	38.54	1.01	4.8	2.05
WestTrib	43218.78	50-yr		210		7294.2	7295.66	7295.66	7296.13	0.038086	5.52	38.05	40.83	1.01	4.83	2.21
WestTrib	43218.78	100-yr	0	260	0	7294.2	7295.81	7295.81	7296.34	0.036629	5.82	44.66	43.31	1.01	5	2.35
WestTrib	42818.78	2-yr		24		7285.58	7286.91		7286.95	0.004739	1.65	14.57	19.95	0.34	6.03	0.21
WestTrib	42818.78	5-yr		59		7285.58	7287.47		7287.54	0.004972	2.14	27.54	26.33	0.37	6.06	0.32
WestTrib	42818.78	10-yr		89		7285.58	7287.81		7287.9	0.005019	2.4	37.13	30.19	0.38	6.05	0.38
WestTrib	42818.78	25-yr		170		7285.58	7288.42		7288.56	0.005593	2.95	57.56	37.1	0.42	6.12	0.53
WestTrib	42818.78	50-yr		210		7285.58	7288.66		7288.82	0.005687	3.14	66.92	39.87	0.43	6.12	0.59
WestTrib	42818.78	100-yr		260		7285.58	7288.9		7289.08	0.006047	3.39	76.66	42.56	0.45	6.12	0.67
WestTrib	42418.78	2-yr		43		7279.67	7280.66	7280.66	7280.92	0.04723	4.04	10.64	21.42	1.01	8.26	1.46
WestTrib	42418.78	5-yr		110		7279.67	7281.11	7281.11	7281.49	0.041499	4.92	22.37	30.42	1.01	8.8	1.9
WestTrib	42418.78	10-yr		170		7279.67	7281.39	7281.39	7281.84	0.039464	5.42	31.39	35.56	1.02	9.15	2.16
WestTrib	42418.78	25-yr		310		7279.67	7281.88	7281.88	7282.43	0.03659	5.95	52.13	48.51	1.01	9.38	2.44
WestTrib	42418.78	50-yr		389.99	0.01	7279.67	7282.1	7282.1	7282.69	0.035103	6.19	63.01	54.93	1.02	9.35	2.5
WestTrib	42418.78	100-yr	0	479.25	0.75	7279.67	7282.3	7282.3	7282.95	0.032552	6.47	74.91	62.59	1.04	9.2	2.42
WestTrib	42018.78	2-yr		43		7267.87	7269.74	7269.32	7269.87	0.011442	2.98	14.45	15.49	0.54	5.1	0.65
WestTrib	42018.78	5-yr		110		7267.87	7270.45	7269.98	7270.69	0.013499	3.99	27.55	21.53	0.62	5.36	1.05
WestTrib	42018.78	10-yr		170		7267.87	7270.91	7270.39	7271.21	0.014782	4.35	39.05	28.82	0.66	5.49	1.22
WestTrib	42018.78	25-yr		310		7267.87	7271.59	7271.13	7271.97	0.016158	4.92	62.95	41.5	0.7	5.58	1.5
WestTrib	42018.78	50-yr		390		7267.87	7271.87	7271.43	7272.29	0.016522	5.19	75.17	46.67	0.72	5.57	1.63
WestTrib	42018.78	100-yr		480		7267.87	7272.13	7271.7	7272.59	0.016944	5.46	87.88	51.52	0.74	5.56	1.77
WestTrib	41774.8	2-yr		43		7263.58	7264.52	7264.52	7264.77	0.049342	3.99	10.79	22.86	1.02	1.03	1.45
WestTrib	41774.8	5-yr		110		7263.58	7264.94	7264.94	7265.34	0.041569	5.03	21.88	28.73	1.02	1.74	1.96
WestTrib	41774.8	10-yr		170		7263.58	7265.23	7265.23	7265.71	0.037917	5.61	30.32	31.53	1.01	2.05	2.26
WestTrib	41774.8	25-yr		310		7263.58	7265.73	7265.73	7266.39	0.034384	6.52	47.55	36.58	1.01	2.44	2.76
WestTrib	41774.8	50-yr		390		7263.58	7265.97	7265.97	7266.71	0.033144	6.89	56.61	38.98	1.01	2.58	2.97
WestTrib	41774.8	100-yr	0.06	479.94	0.01	7263.58	7266.2	7266.2	7267.03	0.031712	7.32	65.65	41.24	1.02	2.7	3.12
WestTrib	41539.1	2-yr		43		7260.77	7262.38		7262.4	0.001382	0.92	46.7	60.95	0.19	0.01	0.07
WestTrib	41539.1	5-yr		110		7260.77	7262.73		7262.77	0.002736	1.61	68.12	63.84	0.28	0.05	0.18
WestTrib	41539.1	10-yr		170		7260.77	7262.96		7263.03	0.003453	2.03	83.54	65.85	0.32	0.09	0.27

Falcon DBPS

West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	41539.1	25-yr		310		7260.77	7263.4		7263.52	0.004484	2.74	113.25	69.54	0.38	0.15	0.45
WestTrib	41539.1	50-yr		390		7260.77	7263.61		7263.76	0.004878	3.05	128.04	71.31	0.4	0.19	0.54
WestTrib	41539.1	100-yr		480		7260.77	7263.83		7264	0.005266	3.34	143.65	73.73	0.42	0.22	0.63
WestTrib	41465.66	2-yr	0.64	38.16	4.2	7257.5	7262.38	7258.93	7262.38	0.000058	0.47	115.09	63.38	0.06		0.01
WestTrib	41465.66	5-yr	3.11	94.57	12.33	7257.5	7262.7	7259.66	7262.71	0.000257	1.06	136.22	68.35	0.12		0.03
WestTrib	41465.66	10-yr	6.34	143.06	20.6	7257.5	7262.91	7260.08	7262.94	0.000483	1.51	151.12	71.64	0.17		0.06
WestTrib	41465.66	25-yr	16.38	250.42	43.2	7257.5	7263.29	7260.8	7263.36	0.001069	2.39	179.21	76.25	0.25		0.15
WestTrib	41465.66	50-yr	23.32	309.2	57.48	7257.5	7263.47	7261.09	7263.57	0.001415	2.83	192.82	78.15	0.29		0.21
WestTrib	41465.66	100-yr	31.95	373.73	74.32	7257.5	7263.64	7261.43	7263.78	0.001804	3.28	206.8	80.07	0.32		0.28
WestTrib	41441.59		Culvert													
WestTrib	41405.38	2-yr		43		7257.33	7258.27	7258.14	7258.44	0.026369	3.35	12.83	25	0.77	0.99	0.95
WestTrib	41405.38	5-yr		110		7257.33	7258.73	7258.6	7258.95	0.026345	3.78	29.09	41.35	0.79	0.96	1.14
WestTrib	41405.38	10-yr		170		7257.33	7258.96	7258.8	7259.25	0.025956	4.36	38.97	44.22	0.82	0.94	1.41
WestTrib	41405.38	25-yr		310		7257.33	7259.39	7259.26	7259.81	0.024835	5.23	59.29	49.6	0.84	0.92	1.83
WestTrib	41405.38	50-yr		390	0	7257.33	7259.6	7259.44	7260.08	0.024336	5.59	69.8	52.17	0.85	0.9	2.01
WestTrib	41405.38	100-yr		479.9	0.1	7257.33	7259.79	7259.64	7260.35	0.023897	5.99	80.27	54.6	0.87	0.89	2.17
WestTrib	41368.0*	2-yr		43		7256.12	7257.31		7257.46	0.025882	3.1	13.85	26.11	0.75	1.02	0.85
WestTrib	41368.0*	5-yr		110		7256.12	7257.75		7257.98	0.024963	3.86	28.53	37.9	0.78	0.99	1.16
WestTrib	41368.0*	10-yr		170		7256.12	7258		7258.31	0.024299	4.42	38.49	40.86	0.8	0.98	1.41
WestTrib	41368.0*	25-yr		310		7256.12	7258.46		7258.9	0.023914	5.32	58.25	46.18	0.84	0.94	1.86
WestTrib	41368.0*	50-yr		390		7256.12	7258.68		7259.18	0.023643	5.69	68.57	48.77	0.85	0.92	2.05
WestTrib	41368.0*	100-yr		479.99	0.01	7256.12	7258.89	7258.7	7259.46	0.023453	6.06	79.22	51.56	0.86	0.9	2.22
WestTrib	41330.7*	2-yr		43		7254.91	7256.25	7256.15	7256.43	0.029059	3.38	12.73	23.05	0.8	1.07	0.99
WestTrib	41330.7*	5-yr		110		7254.91	7256.72		7256.99	0.028202	4.17	26.36	34.11	0.84	0.99	1.35
WestTrib	41330.7*	10-yr		170		7254.91	7256.98	7256.86	7257.33	0.027958	4.8	35.43	36.92	0.86	0.97	1.66
WestTrib	41330.7*	25-yr		310		7254.91	7257.47		7257.96	0.026031	5.65	54.83	42.31	0.88	0.92	2.08
WestTrib	41330.7*	50-yr		390		7254.91	7257.7	7257.55	7258.26	0.025458	6.01	64.85	44.85	0.88	0.91	2.27
WestTrib	41330.7*	100-yr		480		7254.91	7257.94	7257.78	7258.56	0.024713	6.32	75.91	47.61	0.88	0.89	2.43
WestTrib	41293.4*	2-yr		43		7253.69	7255.18		7255.37	0.027983	3.53	12.18	20.02	0.8	1.11	1.05
WestTrib	41293.4*	5-yr		110		7253.69	7255.73		7256	0.025079	4.19	26.25	30.83	0.8	1.05	1.32
WestTrib	41293.4*	10-yr		170		7253.69	7256.03		7256.38	0.02389	4.73	35.97	34	0.81	1.01	1.56
WestTrib	41293.4*	25-yr		310		7253.69	7256.55		7257.04	0.023281	5.62	55.21	39.51	0.84	0.96	2
WestTrib	41293.4*	50-yr		390		7253.69	7256.79		7257.35	0.023186	6	65.04	42.04	0.85	0.94	2.21
WestTrib	41293.4*	100-yr		480		7253.69	7257.04	7256.84	7257.66	0.023193	6.36	75.45	44.63	0.86	0.92	2.41
WestTrib	41256.1*	2-yr		43		7252.48	7254.04	7253.94	7254.27	0.031276	3.89	11.06	17.02	0.85	1.1	1.24

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	41256.1*	5-yr		110		7252.48	7254.59	7254.51	7254.96	0.031078	4.85	22.66	24.95	0.9	1.03	1.73
WestTrib	41256.1*	10-yr		170		7252.48	7254.93	7254.84	7255.37	0.030111	5.34	31.81	29.66	0.91	0.97	1.98
WestTrib	41256.1*	25-yr		310		7252.48	7255.49	7255.38	7256.08	0.027933	6.2	50.03	35.28	0.92	0.88	2.43
WestTrib	41256.1*	50-yr		390		7252.48	7255.76	7255.64	7256.42	0.026777	6.51	59.88	37.97	0.91	0.85	2.59
WestTrib	41256.1*	100-yr		480		7252.48	7256.03	7255.9	7256.75	0.02558	6.79	70.71	40.71	0.91	0.81	2.73
WestTrib	41218.78	2-yr		43		7251.27	7252.93	7252.81	7253.17	0.028003	3.92	10.98	15.23	0.81	7.11	1.22
WestTrib	41218.78	5-yr		110		7251.27	7253.6	7253.41	7253.94	0.024178	4.67	23.55	22.58	0.81	6.92	1.53
WestTrib	41218.78	10-yr		170		7251.27	7254.01	7253.79	7254.4	0.022229	5.04	33.71	27.1	0.8	6.81	1.68
WestTrib	41218.78	25-yr		310		7251.27	7254.73	7254.39	7255.21	0.018488	5.52	56.14	34.33	0.76	6.75	1.84
WestTrib	41218.78	50-yr		390		7251.27	7255.05	7254.68	7255.57	0.017662	5.77	67.57	37.36	0.76	6.77	1.95
WestTrib	41218.78	100-yr		480		7251.27	7255.4	7254.95	7255.94	0.016388	5.93	80.96	40.66	0.74	6.81	1.99
WestTrib	40884.05	2-yr		43		7243.77	7245.86	7245.55	7246.07	0.016636	3.68	11.69	11.71	0.65	11.15	0.98
WestTrib	40884.05	5-yr		110		7243.77	7246.66	7246.32	7247.02	0.017885	4.76	23.1	16.63	0.71	11.63	1.46
WestTrib	40884.05	10-yr		170		7243.77	7247.16	7246.78	7247.59	0.018671	5.28	32.19	20.57	0.74	11.91	1.73
WestTrib	40884.05	25-yr	2.11	307.89		7243.77	7247.89	7247.64	7248.46	0.022044	6.08	52.3	35.04	0.87	12.26	1.97
WestTrib	40884.05	50-yr	5.55	384.45		7243.77	7248.17	7247.99	7248.81	0.023272	6.46	62.85	40.77	0.91	12.37	2.15
WestTrib	40884.05	100-yr	10.22	469.78		7243.77	7248.39	7248.31	7249.13	0.02576	6.99	72.29	45.29	0.97	12.44	2.47
WestTrib	40418.78	2-yr		43		7233.96	7234.77	7234.73	7234.93	0.037324	3.17	13.57	32.96	0.87	8.02	0.96
WestTrib	40418.78	5-yr		110		7233.96	7235.11	7235.07	7235.38	0.03719	4.21	26.14	41.38	0.93	7.45	1.46
WestTrib	40418.78	10-yr		170		7233.96	7235.33	7235.29	7235.68	0.037068	4.76	35.7	46.83	0.96	7.06	1.76
WestTrib	40418.78	25-yr		310		7233.96	7235.75	7235.69	7236.2	0.03185	5.38	57.57	56.03	0.94	6.39	2.03
WestTrib	40418.78	50-yr		390		7233.96	7235.93	7235.86	7236.44	0.030457	5.76	67.69	57.51	0.94	6.09	2.23
WestTrib	40418.78	100-yr		480		7233.96	7236.14	7236.04	7236.7	0.027534	6	80.01	59.27	0.91	5.83	2.31
WestTrib	40018.78	2-yr		67		7224.51	7226.41	7226.41	7226.92	0.014516	5.71	11.74	11.96	1.01	5.72	0.85
WestTrib	40018.78	5-yr		160		7224.51	7227.23	7227.23	7227.94	0.012809	6.75	23.7	17.07	1.01	5.2	1.06
WestTrib	40018.78	10-yr		250		7224.51	7227.79	7227.79	7228.62	0.011921	7.33	34.13	20.62	1	4.91	1.17
WestTrib	40018.78	25-yr		470		7224.51	7228.73	7228.73	7229.81	0.011084	8.32	56.51	26.74	1.01	4.69	1.39
WestTrib	40018.78	50-yr		600		7224.51	7229.18	7229.18	7230.35	0.010591	8.68	69.1	29.63	1	4.57	1.47
WestTrib	40018.78	100-yr		740		7224.51	7229.58	7229.58	7230.86	0.01035	9.07	81.63	32.25	1	4.5	1.56
WestTrib	39618.78	2-yr		67		7216.53	7218.34	7218.31	7218.7	0.013852	4.81	13.94	18.21	0.97	5.64	0.65
WestTrib	39618.78	5-yr		157.41	2.59	7216.53	7218.96	7218.96	7219.43	0.012816	5.55	30.88	35.53	1.04	5.13	0.68
WestTrib	39618.78	10-yr		242.04	7.96	7216.53	7219.33	7219.33	7219.89	0.012185	6.05	45.85	44.33	1.03	4.74	0.77
WestTrib	39618.78	25-yr		443.43	26.57	7216.53	7219.98	7219.98	7220.65	0.011802	6.78	80.13	62.5	1.03	3.79	0.93
WestTrib	39618.78	50-yr		561.35	38.65	7216.53	7220.24	7220.24	7221	0.011696	7.2	97.54	68.85	1.03	3.75	1.02
WestTrib	39618.78	100-yr	0	687.1	52.9	7216.53	7220.5	7220.5	7221.33	0.011505	7.56	115.79	74.96	1.04	3.59	1.09
WestTrib	39218.78	2-yr		67		7211.07	7212.57	7212.57	7213.07	0.014258	5.71	11.74	11.86	1.01	5.68	0.84

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	39218.78	5-yr		160		7211.07	7213.38	7213.38	7214.14	0.01269	6.96	22.99	15.65	1.01	5.01	1.1
WestTrib	39218.78	10-yr		249.73	0.27	7211.07	7213.96	7213.96	7214.86	0.011376	7.64	33.28	22.95	1.12	4.8	0.98
WestTrib	39218.78	25-yr	0.03	441.83	28.15	7211.07	7215.09	7215.09	7216.06	0.007656	8.15	77.05	54.63	1.17	3.76	0.66
WestTrib	39218.78	50-yr	0.31	542.09	57.6	7211.07	7215.46	7215.46	7216.55	0.007552	8.81	97.71	56.92	1.13	3.62	0.79
WestTrib	39218.78	100-yr	1.75	642.33	95.92	7211.07	7215.86	7215.86	7217.02	0.007089	9.25	122.29	68.57	1.14	3.4	0.77
WestTrib	38818.78	2-yr		67		7204.61	7206.09	7206.07	7206.5	0.014015	5.17	12.97	15.09	0.98	4.98	0.72
WestTrib	38818.78	5-yr		160		7204.61	7206.81	7206.78	7207.4	0.012134	6.19	25.86	20.54	0.97	5.12	0.91
WestTrib	38818.78	10-yr		250		7204.61	7207.25	7207.25	7208.01	0.012439	7	35.69	23.94	1.01	5.26	1.11
WestTrib	38818.78	25-yr		470		7204.61	7208.16	7208.16	7209.04	0.011646	7.53	62.43	35.95	1.01	4.81	1.22
WestTrib	38818.78	50-yr		599.89	0.11	7204.61	7208.48	7208.48	7209.5	0.010925	8.09	74.31	37.64	1.02	4.42	1.29
WestTrib	38818.78	100-yr	0.07	739.26	0.67	7204.61	7208.79	7208.79	7209.96	0.010392	8.66	86.21	39.63	1.03	4.2	1.35
WestTrib	38418.78	2-yr		67		7200.04	7201.23	7201.15	7201.53	0.010975	4.39	15.27	19.33	0.87	4.93	0.53
WestTrib	38418.78	5-yr		160		7200.04	7201.78	7201.78	7202.29	0.013386	5.71	28.01	27.76	1	5.08	0.83
WestTrib	38418.78	10-yr		250		7200.04	7202.22	7202.22	7202.75	0.013561	5.81	42.99	42.06	1.01	4.81	0.86
WestTrib	38418.78	25-yr	0.02	469.46	0.52	7200.04	7202.79	7202.79	7203.46	0.01211	6.57	72.55	63.69	1.08	4.3	0.85
WestTrib	38418.78	50-yr	0.21	595.49	4.3	7200.04	7203.05	7203.05	7203.8	0.010797	6.99	90.61	72.18	1.09	3.96	0.84
WestTrib	38418.78	100-yr	0.66	728.2	11.14	7200.04	7203.29	7203.29	7204.14	0.010114	7.42	108.14	73.77	1.07	3.78	0.92
WestTrib	38018.78	2-yr	1.05	65.16	0.8	7195.31	7196.32	7196.31	7196.59	0.013916	4.24	17.8	36.85	1.06	5.51	0.42
WestTrib	38018.78	5-yr	7.68	147.86	4.46	7195.31	7196.76	7196.76	7197.21	0.011998	5.63	36.9	50.08	1.11	5.11	0.55
WestTrib	38018.78	10-yr	18.44	221.67	9.89	7195.31	7197.09	7197.09	7197.66	0.010713	6.4	55.48	59.76	1.11	4.67	0.62
WestTrib	38018.78	25-yr	55.05	386.96	28	7195.31	7197.72	7197.72	7198.49	0.009571	7.73	97.77	75.55	1.09	4.39	0.77
WestTrib	38018.78	50-yr	81.23	477.53	41.23	7195.31	7198.02	7198.02	7198.88	0.009065	8.27	122.21	82.56	1.08	4.18	0.84
WestTrib	38018.78	100-yr	114.71	570.67	54.63	7195.31	7198.31	7198.31	7199.25	0.008801	8.81	146.56	87.82	1.06	4.06	0.91
WestTrib	37618.78	2-yr		67		7190.23	7190.9	7190.86	7191.07	0.013496	3.3	20.28	46.56	0.88	4.54	0.37
WestTrib	37618.78	5-yr		157.66	2.34	7190.23	7191.21	7191.21	7191.51	0.013404	4.46	39.63	84.38	1.14		0.39
WestTrib	37618.78	10-yr		237.96	12.04	7190.23	7191.43	7191.43	7191.81	0.012448	5.03	59.15	88.67	1.06	3.84	0.52
WestTrib	37618.78	25-yr	0.02	428.64	41.34	7190.23	7191.82	7191.82	7192.36	0.012266	6.19	94.72	94.59	1.04	4.41	0.77
WestTrib	37618.78	50-yr	0.21	539.7	60.09	7190.23	7192.01	7192.01	7192.65	0.011787	6.7	113.3	96.65	1.04	4.44	0.86
WestTrib	37618.78	100-yr	0.71	658.19	81.11	7190.23	7192.2	7192.2	7192.92	0.011392	7.18	132.09	98.7	1.04	4.52	0.95
WestTrib	37218.78	2-yr	0.1	57.94	8.97	7184.96	7186.34	7186.28	7186.54	0.009658	3.88	27.2	69.67	1.02	3.49	0.23
WestTrib	37218.78	5-yr	0.87	118.97	40.17	7184.96	7186.73	7186.7	7187.04	0.009492	5.15	65.65	130.11	1.11	3.56	0.3
WestTrib	37218.78	10-yr	1.99	157.16	90.85	7184.96	7187.03	7187.03	7187.32	0.007525	5.37	117.02	185.32	0.95	3.21	0.3
WestTrib	37218.78	25-yr	4.59	247.57	217.84	7184.96	7187.33	7187.33	7187.75	0.009804	6.97	173.59	189.03	0.95	3.14	0.56
WestTrib	37218.78	50-yr	6.42	294.29	299.29	7184.96	7187.5	7187.5	7187.96	0.010252	7.57	204.49	191.02	0.93	3.19	0.68
WestTrib	37218.78	100-yr	8.53	343.9	387.57	7184.96	7187.64	7187.64	7188.16	0.010914	8.21	232.51	192.82	0.93	3.28	0.82
WestTrib	36914.66	2-yr		48.14	18.86	7182.01	7182.91	7182.83	7183.04	0.01365	3.31	28.87	64.94	0.76	6.29	0.38

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	36914.66	5-yr	0.34	117.4	42.26	7182.01	7183.2	7183.14	7183.47	0.014692	4.78	50.21	79.8	0.93	6.22	0.58
WestTrib	36914.66	10-yr	2.34	181.35	66.32	7182.01	7183.4	7183.38	7183.79	0.015778	5.82	66.95	93.88	1.06	6.17	0.7
WestTrib	36914.66	25-yr	30.77	318.84	120.39	7182.01	7183.91	7183.91	7184.38	0.01082	6.51	136.89	184.61	1.12	4.96	0.5
WestTrib	36914.66	50-yr	64.09	387.98	147.93	7182.01	7184.09	7184.09	7184.61	0.010712	7.02	171.19	190.99	1.08	4.86	0.6
WestTrib	36914.66	100-yr	104.73	458.76	176.51	7182.01	7184.27	7184.27	7184.84	0.010622	7.49	205.01	197.08	1.04	4.82	0.69
WestTrib	36496.14	2-yr		84		7175.72	7176.47	7176.47	7176.75	0.016189	4.23	19.84	35.86	1	2.34	0.56
WestTrib	36496.14	5-yr		190		7175.72	7176.9	7176.9	7177.25	0.014985	4.79	39.69	56.26	1	2.36	0.66
WestTrib	36496.14	10-yr		300		7175.72	7177.15	7177.15	7177.62	0.013945	5.52	54.33	58.86	1.01	2.32	0.8
WestTrib	36496.14	25-yr		570		7175.72	7177.71	7177.71	7178.31	0.012766	6.24	91.35	77.06	1.01	2.13	0.94
WestTrib	36496.14	50-yr		740		7175.72	7177.99	7177.99	7178.64	0.012374	6.45	114.65	89.83	1.01	2.04	0.98
WestTrib	36496.14	100-yr		910		7175.72	7178.2	7178.2	7178.91	0.012261	6.78	134.24	97.04	1.02	1.97	1.05
WestTrib	36328.17	2-yr		84		7173.37	7173.82	7173.76	7173.9	0.011562	2.29	36.73	130.55	0.76	2.97	0.2
WestTrib	36328.17	5-yr		190		7173.37	7174	7173.95	7174.14	0.012574	3.04	62.41	153.77	0.84	2.85	0.32
WestTrib	36328.17	10-yr		300		7173.37	7174.15	7174.1	7174.33	0.012728	3.43	87.42	181.61	0.87	2.73	0.38
WestTrib	36328.17	25-yr		570		7173.37	7174.41	7174.34	7174.67	0.011494	4.14	137.76	200.21	0.88	2.46	0.49
WestTrib	36328.17	50-yr		740		7173.37	7174.54	7174.47	7174.85	0.010859	4.5	164.4	201.7	0.88	2.32	0.55
WestTrib	36328.17	100-yr		910		7173.37	7174.67	7174.57	7175.02	0.010034	4.77	190.83	202.31	0.87	2.18	0.59
WestTrib	36128.98	2-yr		84		7170.02	7170.75	7170.75	7170.92	0.019782	3.37	24.95	74.16	1.02	1.67	0.41
WestTrib	36128.98	5-yr		190		7170.02	7171	7171	7171.29	0.016212	4.35	43.71	76.21	1.01	1.5	0.58
WestTrib	36128.98	10-yr		300		7170.02	7171.2	7171.2	7171.6	0.014614	5.02	59.8	77.72	1.01	1.48	0.7
WestTrib	36128.98	25-yr		570		7170.02	7171.62	7171.62	7172.21	0.012919	6.15	92.63	80.7	1.01	1.39	0.92
WestTrib	36128.98	50-yr		740		7170.02	7171.85	7171.85	7172.53	0.012071	6.64	111.5	82.36	1.01	1.33	1.01
WestTrib	36128.98	100-yr		910		7170.02	7172.06	7172.06	7172.83	0.011551	7.06	128.87	83.87	1	1.29	1.1
WestTrib	36018.78	2-yr		84		7168.05	7168.74	7168.67	7168.88	0.011857	3.01	27.93	93.04	0.82	0.94	0.31
WestTrib	36018.78	5-yr		190		7168.05	7168.98	7168.92	7169.16	0.011111	3.39	56.09	107.11	0.82	0.9	0.36
WestTrib	36018.78	10-yr		300		7168.05	7169.14	7169.08	7169.4	0.011782	4.12	72.89	108.52	0.89	0.88	0.49
WestTrib	36018.78	25-yr		570		7168.05	7169.47	7169.42	7169.89	0.011367	5.17	110.28	113.5	0.92	0.82	0.69
WestTrib	36018.78	50-yr		740		7168.05	7169.67	7169.63	7170.15	0.011033	5.59	132.33	118.31	0.93	0.79	0.77
WestTrib	36018.78	100-yr		910		7168.05	7169.85	7169.79	7170.39	0.010615	5.89	154.49	124.07	0.93	0.75	0.82
WestTrib	35953.11	2-yr		84		7167.23	7167.79	7167.79	7167.94	0.01765	3.06	27.45	86.36	0.96	6.69	0.35
WestTrib	35953.11	5-yr		190		7167.23	7168	7168	7168.26	0.017177	4.08	46.52	93	1.02	6.04	0.54
WestTrib	35953.11	10-yr		300		7167.23	7168.19	7168.19	7168.53	0.014945	4.68	64.1	94.02	1	5.42	0.63
WestTrib	35953.11	25-yr		570		7167.23	7168.55	7168.55	7169.07	0.013325	5.79	98.39	95.99	1.01	4.8	0.85
WestTrib	35953.11	50-yr		740		7167.23	7168.75	7168.75	7169.37	0.012619	6.3	117.52	97.08	1.01	4.5	0.95
WestTrib	35953.11	100-yr		910		7167.23	7168.94	7168.94	7169.63	0.01189	6.69	136.06	98.11	1	4.31	1.02
WestTrib	35609.06	2-yr		84		7160.21	7160.58	7160.58	7160.7	0.021464	2.75	30.59	131.34	1	0.32	0.31

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	35609.06	5-yr		190		7160.21	7160.75	7160.75	7160.95	0.017852	3.57	53.25	134.4	1	0.3	0.44
WestTrib	35609.06	10-yr		300		7160.21	7160.89	7160.89	7161.16	0.016524	4.17	71.89	135.31	1.01	0.31	0.55
WestTrib	35609.06	25-yr		570		7160.21	7161.18	7161.18	7161.59	0.014403	5.15	110.74	137.19	1.01	0.32	0.72
WestTrib	35609.06	50-yr		740		7160.21	7161.34	7161.34	7161.82	0.013325	5.56	133	138.26	1	0.33	0.8
WestTrib	35609.06	100-yr		910		7160.21	7161.48	7161.48	7162.03	0.012945	5.97	152.3	139.17	1.01	0.33	0.88
WestTrib	35576.41	2-yr		84		7156.6	7157.23	7157.08	7157.29	0.005113	1.92	43.78	109.8	0.54	2.99	0.13
WestTrib	35576.41	5-yr		190		7156.6	7157.51		7157.61	0.004814	2.48	76.68	125.2	0.56	3	0.18
WestTrib	35576.41	10-yr		300		7156.6	7157.71		7157.84	0.004976	2.94	102.08	132.26	0.59	3	0.24
WestTrib	35576.41	25-yr		570		7156.6	7158.05		7158.28	0.005364	3.85	147.96	135.04	0.65	2.99	0.37
WestTrib	35576.41	50-yr		740		7156.6	7158.23		7158.52	0.005524	4.3	172.29	136.5	0.67	2.97	0.43
WestTrib	35576.41	100-yr		910		7156.6	7158.39	7158.07	7158.73	0.005749	4.7	193.45	137.75	0.7	2.97	0.5
WestTrib	35218.78	2-yr		84		7153.3	7154.1	7154.08	7154.3	0.015814	3.65	22.99	51.02	0.96	2.98	0.44
WestTrib	35218.78	5-yr		190		7153.3	7154.4	7154.4	7154.62	0.017864	3.77	50.35	116.82	1.01	2.93	0.48
WestTrib	35218.78	10-yr		300		7153.3	7154.56	7154.56	7154.85	0.016808	4.32	69.48	125.79	1.02	2.67	0.58
WestTrib	35218.78	25-yr		570		7153.3	7154.85	7154.85	7155.29	0.014524	5.31	107.34	127.62	1.02	2.33	0.76
WestTrib	35218.78	50-yr		740		7153.3	7155.02	7155.02	7155.54	0.013635	5.76	128.36	128.63	1.02	2.19	0.85
WestTrib	35218.78	100-yr		910		7153.3	7155.17	7155.17	7155.76	0.012826	6.13	148.47	129.59	1.01	2.09	0.91
WestTrib	35054.37	2-yr		84		7150.81	7151.2	7151.2	7151.32	0.02065	2.83	29.63	117.81	1	0.36	0.32
WestTrib	35054.37	5-yr		190		7150.81	7151.37	7151.37	7151.59	0.017727	3.72	51.12	120.71	1.01	0.34	0.47
WestTrib	35054.37	10-yr		300		7150.81	7151.53	7151.53	7151.82	0.015705	4.29	69.93	121.53	1	0.33	0.56
WestTrib	35054.37	25-yr		570		7150.81	7151.84	7151.84	7152.27	0.013829	5.31	107.39	123.15	1	0.32	0.75
WestTrib	35054.37	50-yr		740		7150.81	7152	7152	7152.52	0.013023	5.77	128.27	124.04	1	0.33	0.84
WestTrib	35054.37	100-yr		910		7150.81	7152.16	7152.16	7152.75	0.012588	6.19	147.1	124.84	1	0.33	0.92
WestTrib	35025.09	2-yr		84		7147.41	7147.97		7148.05	0.007602	2.19	38.35	106.1	0.64	2.28	0.17
WestTrib	35025.09	5-yr		190		7147.41	7148.22		7148.35	0.007311	2.91	65.39	114.99	0.68	2.14	0.26
WestTrib	35025.09	10-yr		300		7147.41	7148.41		7148.59	0.007117	3.38	88.84	122.17	0.7	2.04	0.32
WestTrib	35025.09	25-yr		570		7147.41	7148.78		7149.06	0.00683	4.2	135.62	130.14	0.73	1.97	0.44
WestTrib	35025.09	50-yr		740		7147.41	7148.95		7149.29	0.006957	4.68	158.27	131.19	0.75	1.98	0.52
WestTrib	35025.09	100-yr		910		7147.41	7149.1		7149.51	0.007324	5.14	176.9	132.02	0.78	1.99	0.61
WestTrib	34818.78	2-yr		84		7144.87	7145.55	7145.55	7145.77	0.01727	3.78	22.23	50.18	1	1.2	0.48
WestTrib	34818.78	5-yr		190		7144.87	7145.88	7145.88	7146.21	0.015436	4.65	40.88	62.15	1.01	1.07	0.63
WestTrib	34818.78	10-yr		300		7144.87	7146.14	7146.14	7146.55	0.014216	5.15	58.31	71.54	1	1.03	0.72
WestTrib	34818.78	25-yr		570		7144.87	7146.67	7146.67	7147.09	0.013989	5.19	109.89	131.65	1	1.03	0.73
WestTrib	34818.78	50-yr		740		7144.87	7146.84	7146.84	7147.32	0.013768	5.56	133.12	142.01	1.01	1.06	0.8
WestTrib	34818.78	100-yr		910		7144.87	7146.99	7146.99	7147.53	0.013067	5.87	154.94	146.29	1.01	1.09	0.86
WestTrib	34639.33	2-yr		84		7142.45	7143.02		7143.05	0.003291	1.49	56.44	148.85	0.43	1.42	0.08

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	34639.33	5-yr		190		7142.45	7143.3		7143.35	0.002792	1.9	100.21	162.42	0.43	1.33	0.11
WestTrib	34639.33	10-yr		300		7142.45	7143.52		7143.59	0.002649	2.18	137.32	172.95	0.43	1.27	0.13
WestTrib	34639.33	25-yr		570		7142.45	7143.9		7144.02	0.002734	2.75	207.41	189.53	0.46	1.14	0.19
WestTrib	34639.33	50-yr		740		7142.45	7144.09		7144.24	0.002827	3.03	244.18	197.57	0.48	1.12	0.22
WestTrib	34639.33	100-yr		910		7142.45	7144.25		7144.42	0.002994	3.31	274.69	202.98	0.5	1.1	0.25
WestTrib	34399.04	2-yr	0.03	89.79	0.17	7140.93	7141.48	7141.43	7141.62	0.012353	3.08	29.78	80.44	0.89	1.74	0.29
WestTrib	34399.04	5-yr	0.52	206.1	3.38	7140.93	7141.73	7141.72	7142.03	0.0132	4.39	52.01	92.28	1.02	1.77	0.46
WestTrib	34399.04	10-yr	1.46	309.91	8.62	7140.93	7141.93	7141.93	7142.32	0.013033	5.14	70.55	102.13	1.07	1.7	0.56
WestTrib	34399.04	25-yr	9.29	542.95	47.76	7140.93	7142.42	7142.42	7142.88	0.008837	5.73	155.89	261.97	1.25	1.19	0.33
WestTrib	34399.04	50-yr	18.66	656.2	85.14	7140.93	7142.62	7142.62	7143.11	0.008247	6.05	211.87	312.05	1.21	1.12	0.35
WestTrib	34399.04	100-yr	31.1	761.24	137.66	7140.93	7142.83	7142.83	7143.32	0.007201	6.17	287.97	390.92	1.15	0.99	0.33
WestTrib	34320.25	2-yr		90		7139.06	7139.69	7139.69	7139.88	0.050249	3.48	25.85	68.4	1	3.01	1.19
WestTrib	34320.25	5-yr		210		7139.06	7139.98	7139.98	7140.26	0.046122	4.23	49.69	92.17	1.01	3.26	1.55
WestTrib	34320.25	10-yr		318.88	1.12	7139.06	7140.2	7140.2	7140.51	0.040656	4.5	72.5	128.8	1.05	3.56	1.43
WestTrib	34320.25	25-yr	1.38	569.24	29.37	7139.06	7140.55	7140.55	7140.95	0.030317	5.18	133.95	207.55	1.11	3.51	1.22
WestTrib	34320.25	50-yr	3.48	698.23	58.29	7139.06	7140.7	7140.7	7141.14	0.028618	5.53	167.04	231.41	1.1	3.59	1.29
WestTrib	34320.25	100-yr	6.75	825.24	98.01	7139.06	7140.85	7140.85	7141.32	0.026429	5.77	205.73	290.56	1.14	3.43	1.17
WestTrib	34018.33	2-yr	14.29	71.33	4.37	7132.14	7133.89		7133.93	0.004048	1.68	72.68	136.37	0.37	2.86	0.13
WestTrib	34018.33	5-yr	40.89	145.24	23.88	7132.14	7134.29	7133.8	7134.35	0.004565	2.31	137.41	184.78	0.41	3.1	0.21
WestTrib	34018.33	10-yr	67.08	206.32	46.6	7132.14	7134.51	7133.98	7134.6	0.005367	2.79	180.21	207.4	0.44	3.22	0.29
WestTrib	34018.33	25-yr	137.76	340.44	121.8	7132.14	7134.97		7135.09	0.005889	3.51	304.09	339.88	0.52	3.48	0.33
WestTrib	34018.33	50-yr	176.63	405.76	177.61	7132.14	7135.15		7135.28	0.006224	3.82	370.08	403.2	0.54	3.57	0.36
WestTrib	34018.33	100-yr	221.46	469.81	238.73	7132.14	7135.36		7135.5	0.006016	4.01	467.36	496.42	0.55	3.67	0.35
WestTrib	33792.91	2-yr	0.17	82.51	7.32	7130.62	7130.99	7130.99	7131.08	0.062408	2.43	40.53	240.43	1.01	4.06	0.66
WestTrib	33792.91	5-yr	0.48	186.27	23.25	7130.62	7131.12	7131.12	7131.26	0.057811	3.22	77.31	334.12	1.12	4.48	0.83
WestTrib	33792.91	10-yr	0.81	266.27	52.92	7130.62	7131.23	7131.23	7131.38	0.041293	3.34	121.13	399.87	0.99	4.15	0.78
WestTrib	33792.91	25-yr	1.72	459.44	138.83	7130.62	7131.39	7131.39	7131.61	0.042632	4.18	184.57	412.1	0.99	4.34	1.19
WestTrib	33792.91	50-yr	2.35	565.65	192	7130.62	7131.47	7131.47	7131.72	0.040251	4.45	222.63	463.95	1.01	4.71	1.21
WestTrib	33792.91	100-yr	2.96	683.77	243.27	7130.62	7131.51	7131.51	7131.83	0.048435	5.06	241.26	478.14	1.12	4.43	1.53
WestTrib	33635.33	2-yr		90		7122.46	7123.18		7123.26	0.014001	2.3	39.17	74.14	0.56	7.66	0.46
WestTrib	33635.33	5-yr		210		7122.46	7123.51	7123.29	7123.67	0.016829	3.13	67.02	91.42	0.64	7.48	0.77
WestTrib	33635.33	10-yr	0.19	319.81		7122.46	7123.71	7123.51	7123.93	0.018169	3.75	85.6	98.02	0.71	7.33	0.99
WestTrib	33635.33	25-yr	4.08	594.7	1.22	7122.46	7124.1	7123.89	7124.47	0.01915	4.88	126.89	114.55	0.81	7.2	1.32
WestTrib	33635.33	50-yr	7.32	749.96	2.72	7122.46	7124.22	7124.08	7124.71	0.022869	5.65	140.49	119.53	0.91	7.19	1.68
WestTrib	33635.33	100-yr	16.43	905.57	8	7122.46	7124.5	7124.26	7124.99	0.018229	5.69	175.66	131.38	0.86	7.28	1.52
WestTrib	33235.67	2-yr		90		7114.4	7115.41		7115.6	0.027741	3.47	25.95	44.18	0.8	7.83	1.02

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	33235.67	5-yr		210		7114.4	7115.91		7116.18	0.020879	4.2	49.96	51.44	0.75	7.74	1.26
WestTrib	33235.67	10-yr		320		7114.4	7116.27		7116.6	0.018477	4.62	69.31	56.51	0.73	7.69	1.41
WestTrib	33235.67	25-yr	26.68	562.68	10.64	7114.4	7116.83	7116.77	7117.27	0.016931	5.49	139.24	194.77	1.11	7.46	0.75
WestTrib	33235.67	50-yr	72.35	658.39	29.26	7114.4	7117.09	7116.98	7117.51	0.014465	5.57	191.62	211.57	0.96	7.28	0.82
WestTrib	33235.67	100-yr	102.4	786.5	41.1	7114.4	7117.16	7117.16	7117.71	0.018157	6.4	208.04	218.77	1.07	5.81	1.08
WestTrib	32862.6	2-yr		90		7106.4	7107.6		7107.77	0.016422	3.34	26.93	32.51	0.65	8.46	0.84
WestTrib	32862.6	5-yr		210		7106.4	7108.1		7108.44	0.020592	4.67	44.94	38.8	0.77	8.67	1.47
WestTrib	32862.6	10-yr		320		7106.4	7108.42		7108.9	0.023074	5.55	57.63	41.8	0.83	8.85	1.96
WestTrib	32862.6	25-yr	0.01	599.09	0.89	7106.4	7109.06	7108.92	7109.81	0.023792	6.94	87.52	55.36	0.97	9.34	2.32
WestTrib	32862.6	50-yr	0.17	755.71	4.12	7106.4	7109.26	7109.26	7110.23	0.027244	7.94	99.15	64.03	1.12	9.51	2.61
WestTrib	32862.6	100-yr	2.46	851.61	75.93	7106.4	7109.94	7109.94	7110.59	0.013468	6.74	193.4	213.31	1.19	6.54	0.76
WestTrib	32439.34	2-yr	9.01	80.99		7098.51	7099.18		7099.32	0.024776	3.16	31.91	64.32	0.76	8.21	0.77
WestTrib	32439.34	5-yr	35.06	174.94		7098.51	7099.57	7099.45	7099.77	0.020192	3.96	70.1	129.94	0.88	8.37	0.68
WestTrib	32439.34	10-yr	74.85	245.15	0	7098.51	7099.8	7099.68	7100.04	0.018743	4.38	105.24	165.92	0.86	8.47	0.74
WestTrib	32439.34	25-yr	188.93	400.14	10.93	7098.51	7100.16	7100.16	7100.48	0.019975	5.43	192.74	317.68	1.03	8.31	0.76
WestTrib	32439.34	50-yr	271.56	456.06	32.38	7098.51	7100.33	7100.29	7100.64	0.01814	5.56	252.11	389.4	0.98	8.52	0.73
WestTrib	32439.34	100-yr	354.05	511.92	64.03	7098.51	7100.47	7100.41	7100.78	0.01731	5.74	311.37	441.65	0.94	8.5	0.76
WestTrib	32034.26	2-yr	1.99	86.92	1.09	7090.35	7091.02		7091.11	0.016819	2.34	43.01	135.86	0.72	5.94	0.33
WestTrib	32034.26	5-yr	19.16	182.43	8.4	7090.35	7091.25	7091.19	7091.39	0.021068	3.27	84.65	222.1	0.88	5.96	0.5
WestTrib	32034.26	10-yr	45.12	258.11	16.77	7090.35	7091.38	7091.33	7091.57	0.023373	3.88	113.95	236.25	0.9	5.95	0.7
WestTrib	32034.26	25-yr	129.81	423.71	46.48	7090.35	7091.68	7091.59	7091.93	0.020943	4.57	194.41	285.21	0.85	6	0.89
WestTrib	32034.26	50-yr	156.68	534.73	68.59	7090.35	7091.79	7091.67	7092.11	0.024696	5.27	226.17	341.73	0.98	6.02	1.02
WestTrib	32034.26	100-yr	212.23	639.89	77.88	7090.35	7091.91	7091.7	7092.28	0.025926	5.75	273.41	456.66	1.11	6.07	0.97
WestTrib	31765.2	2-yr		90		7084.51	7085.09	7085.02	7085.18	0.030193	2.38	37.75	133	0.75	4.86	0.59
WestTrib	31765.2	5-yr	13.39	196.61		7084.51	7085.33	7085.25	7085.45	0.02322	2.81	85	227.46	0.79	4.55	0.54
WestTrib	31765.2	10-yr	32.61	287.39	0	7084.51	7085.48	7085.38	7085.62	0.020848	3.1	122.08	262.52	0.76	4.34	0.61
WestTrib	31765.2	25-yr	83.85	514.58	1.57	7084.51	7085.71	7085.63	7085.93	0.023752	4.07	188.99	348.24	0.91	4.15	0.8
WestTrib	31765.2	50-yr	137.4	617.5	5.1	7084.51	7085.85	7085.67	7086.08	0.020193	4.17	240.27	366.12	0.83	4.1	0.83
WestTrib	31765.2	100-yr	191.31	728.72	9.97	7084.51	7085.96	7085.85	7086.21	0.01957	4.42	282.58	382.84	0.82	4.06	0.9
WestTrib	31571.99	2-yr	1.54	88.46		7079.18	7080.13		7080.32	0.021197	3.52	27.02	45.64	0.8	3.37	0.78
WestTrib	31571.99	5-yr	14.82	195.18		7079.18	7080.55	7080.46	7080.9	0.023669	4.87	49.93	62.25	0.93	3.25	1.18
WestTrib	31571.99	10-yr	35.5	283.95	0.55	7079.18	7080.84	7080.77	7081.28	0.023949	5.59	71.05	105.67	1.14	3.12	1
WestTrib	31571.99	25-yr	101.61	422.1	76.29	7079.18	7081.42	7081.42	7081.79	0.019339	5.74	169.81	223.55	1	2.31	0.92
WestTrib	31571.99	50-yr	136.82	493.43	129.75	7079.18	7081.57	7081.57	7081.97	0.022183	6.12	206.19	253.23	1	2.39	1.13
WestTrib	31571.99	100-yr	168.67	570.82	190.51	7079.18	7081.72	7081.72	7082.15	0.022463	6.48	249.66	324.58	1.06	2.34	1.08
WestTrib	31384.44	2-yr		90		7075.71	7076.62	7076.62	7076.94	0.015268	4.59	19.62	30.09	1	3.68	0.62

Falcon DBPS

West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	31384.44	5-yr		210		7075.71	7077.12	7077.12	7077.65	0.013114	5.85	35.93	34.08	1	3.18	0.86
WestTrib	31384.44	10-yr		320		7075.71	7077.49	7077.49	7078.16	0.012089	6.54	48.9	36.75	1	3.09	0.99
WestTrib	31384.44	25-yr	0.01	576.67	23.32	7075.71	7078.5	7078.5	7079.06	0.008404	6.12	126.13	173.9	1.24	2.26	0.38
WestTrib	31384.44	50-yr	0.18	701.01	58.81	7075.71	7078.72	7078.72	7079.33	0.008127	6.56	163.65	176.16	1.15	2.23	0.47
WestTrib	31384.44	100-yr	0.63	825.89	103.48	7075.71	7078.92	7078.92	7079.59	0.007826	6.92	200.52	178.36	1.09	2.09	0.55
WestTrib	31149.9	2-yr		0.1		7071.42	7071.44	7071.44	7071.47	0.255196	1.34	0.07	6.05	2.12	0.63	0.2
WestTrib	31149.9	5-yr		15		7071.42	7071.72	7071.67	7071.76	0.010526	1.63	9.18	50.39	0.67	3.54	0.12
WestTrib	31149.9	10-yr		130		7071.42	7072.14	7072.11	7072.34	0.013963	3.53	36.88	78.86	0.91	3.26	0.41
WestTrib	31149.9	25-yr		420		7071.42	7072.7	7072.64	7073.09	0.011246	5.03	83.45	88.88	0.92	3.01	0.66
WestTrib	31149.9	50-yr		590		7071.42	7072.92	7072.87	7073.42	0.011432	5.68	103.79	93.22	0.95	2.97	0.79
WestTrib	31149.9	100-yr	12.04	754.4	3.56	7071.42	7073.24	7073.24	7073.71	0.009861	5.55	164.09	290.24	1.29	2.55	0.35
WestTrib	30906.88	2-yr		0.1		7067.59	7067.74		7067.74	0.000705	0.23	0.43	5.81	0.15	6.36	0
WestTrib	30906.88	5-yr		15		7067.59	7068.1	7068.1	7068.23	0.021304	2.92	5.13	19.91	1.01	6	0.34
WestTrib	30906.88	10-yr	4.61	125.39		7067.59	7068.77	7068.75	7069.07	0.012807	4.47	32.99	55.89	1.01	6.23	0.47
WestTrib	30906.88	25-yr	43.93	376.07		7067.59	7069.59	7069.59	7070.08	0.013599	5.88	85.37	85.28	0.99	5.82	0.85
WestTrib	30906.88	50-yr	62.21	526.36	1.43	7067.59	7069.85	7069.85	7070.45	0.013044	6.56	110.49	112	1.11	5.64	0.8
WestTrib	30906.88	100-yr	80.48	679.25	10.27	7067.59	7070.13	7070.13	7070.79	0.011004	6.9	145.68	136.54	1.11	5.09	0.73
WestTrib	30466.36	2-yr		0.1		7061.3	7061.37	7061.37	7061.39	0.028827	0.91	0.11	3.05	0.85		0.06
WestTrib	30466.36	5-yr		15		7061.3	7061.89	7061.81	7061.97	0.009404	2.19	6.84	22.12	0.7	5.34	0.18
WestTrib	30466.36	10-yr		130		7061.3	7062.52	7062.52	7062.85	0.015677	4.59	28.33	44.42	1.01	5.48	0.62
WestTrib	30466.36	25-yr		420		7061.3	7063.32	7063.32	7063.88	0.012819	6.04	69.5	61.97	1.01	4.54	0.9
WestTrib	30466.36	50-yr		590		7061.3	7063.65	7063.65	7064.28	0.012572	6.37	92.55	75.06	1.01	4.51	0.97
WestTrib	30466.36	100-yr		770		7061.3	7063.94	7063.94	7064.63	0.012119	6.65	115.79	85.77	1.01	4.39	1.02
WestTrib	30109.14	2-yr		0.1		7056.28	7056.31	7056.31	7056.31	0.037478	0.66	0.15	8.55	0.86	1.77	0.04
WestTrib	30109.14	5-yr		15		7056.28	7056.55	7056.55	7056.63	0.027307	2.33	6.43	42.19	1.05	5.86	0.26
WestTrib	30109.14	10-yr	5.58	124.41	0.01	7056.28	7056.99	7056.99	7057.18	0.01479	3.61	45.14	173.57	1.22	3.38	0.24
WestTrib	30109.14	25-yr	84.63	332.16	3.21	7056.28	7057.41	7057.41	7057.73	0.012214	5.05	136.98	232.74	1.04	2.96	0.45
WestTrib	30109.14	50-yr	138.21	444.09	7.69	7056.28	7057.58	7057.58	7057.97	0.012247	5.68	177.13	245.27	1.03	2.9	0.55
WestTrib	30109.14	100-yr	197.23	557.96	14.81	7056.28	7057.74	7057.74	7058.19	0.012037	6.19	217.62	257.47	1.02	2.84	0.64
WestTrib	29876.27	2-yr		0.1		7050.49	7050.52	7050.52	7050.52	0.003152	0.22	0.46	21	0.26	1.81	0
WestTrib	29876.27	5-yr		15		7050.49	7050.71	7050.71	7050.78	0.023237	2.21	6.79	42.87	0.98	5.99	0.23
WestTrib	29876.27	10-yr	13.93	115.47	0.6	7050.49	7051.13	7051.13	7051.32	0.014232	3.7	48.29	138.14	1.04	3.79	0.31
WestTrib	29876.27	25-yr	75.04	333.08	11.87	7050.49	7051.59	7051.59	7051.98	0.013157	5.52	120.93	178.92	1.06	3.34	0.56
WestTrib	29876.27	50-yr	114.5	451.58	23.91	7050.49	7051.8	7051.8	7052.26	0.012588	6.15	160.23	201.06	1.07	3.09	0.63
WestTrib	29876.27	100-yr	151.09	577.67	41.24	7050.49	7052	7052	7052.54	0.012238	6.73	202.83	234.5	1.12	2.98	0.66
WestTrib	29632.62	2-yr		0.1		7044.31	7044.36	7044.36	7044.37	0.034102	0.75	0.13	5.6	0.86		0.05

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	29632.62	5-yr	0.02	14.98		7044.31	7044.62	7044.62	7044.7	0.026027	2.27	6.7	50.27	1.09	2.13	0.22
WestTrib	29632.62	10-yr	17.1	112.9		7044.31	7045.03	7045.03	7045.22	0.017051	3.69	51.14	173.22	1.12	4.6	0.31
WestTrib	29632.62	25-yr	108.37	311.63		7044.31	7045.47	7045.47	7045.72	0.013937	4.61	157.51	316.94	1	3.7	0.43
WestTrib	29632.62	50-yr	169.55	420.45		7044.31	7045.66	7045.66	7045.93	0.012318	4.89	228.86	452.2	1.03	3.37	0.39
WestTrib	29632.62	100-yr	248.58	521.41	0.01	7044.31	7045.79	7045.79	7046.09	0.011671	5.22	291.44	472.77	0.98	3.22	0.45
WestTrib	29330.53	2-yr		0.1		7035.54	7035.62	7035.62	7035.63	0.029424	0.95	0.1	2.79	0.87		0.07
WestTrib	29330.53	5-yr		15		7035.54	7036.29	7036.07	7036.32	0.003182	1.41	10.64	29.67	0.41	3.92	0.07
WestTrib	29330.53	10-yr	5.63	124.36	0	7035.54	7036.76	7036.76	7037.03	0.013645	4.32	35.62	74.29	1.08	0.2	0.41
WestTrib	29330.53	25-yr	51.28	364.02	4.71	7035.54	7037.43	7037.43	7037.95	0.010712	6.18	100.97	119.45	1.11	1.08	0.56
WestTrib	29330.53	50-yr	88.13	490.32	11.55	7035.54	7037.73	7037.73	7038.33	0.009963	6.81	139.05	139.65	1.1	1.71	0.62
WestTrib	29330.53	100-yr	131.73	617.13	21.14	7035.54	7037.99	7037.99	7038.68	0.009559	7.37	178.03	157.99	1.1	2.4	0.67
WestTrib	29004.24	2-yr		0.1		7032.15	7032.18	7032.17	7032.19	0.016406	0.41	0.24	334.14	0.56	5.27	0.02
WestTrib	29004.24	5-yr		15		7032.15	7032.34	7032.34	7032.39	0.027556	1.74	8.63	416.39	0.98	4.62	0.17
WestTrib	29004.24	10-yr	128.59	1.41		7032.15	7032.4	7032.4	7032.4	0.000062	0.1	637.52	475.41	0.03	0.06	0.01
WestTrib	29004.24	25-yr	415.44	4.56		7032.15	7032.4	7032.4	7032.4	0.000648	0.33	637.52	475.41	0.1	0.32	0.05
WestTrib	29004.24	50-yr	583.59	6.41		7032.15	7032.4	7032.4	7032.41	0.001278	0.46	637.52	475.41	0.14	0.3	0.11
WestTrib	29004.24	100-yr	761.64	8.36		7032.15	7032.4	7032.4	7032.42	0.002177	0.6	637.52	475.41	0.19	0.51	0.18
WestTrib	28833.58	2-yr		0.1		7026.87	7026.9	7026.9	7026.92	0.078102	0.89	0.11	104.2	1.23		0.08
WestTrib	28833.58	5-yr	0.03	14.97		7026.87	7027.12	7027.12	7027.19	0.026615	2.1	7.25	214.54	1.04	8.92	0.21
WestTrib	28833.58	10-yr	6.38	123.56	0.07	7026.87	7027.52	7027.52	7027.73	0.015962	3.79	40.05	319.49	1.06	6.58	0.38
WestTrib	28833.58	25-yr	42.13	368.3	9.57	7026.87	7028.06	7028.06	7028.44	0.011223	5.28	116.28	496.15	1.11	4.77	0.43
WestTrib	28833.58	50-yr	339.88	238.17	11.95	7026.87	7028.28	7028.28	7028.33	0.002434	2.8	504.11	573.42	0.36	1.89	0.13
WestTrib	28833.58	100-yr	443.57	310.83	15.6	7026.87	7028.28	7028.28	7028.37	0.004145	3.66	504.11	573.42	0.47	2.59	0.23
WestTrib	28432.62	2-yr		0.1		7015.13	7015.16	7015.16	7015.17	0.08227	0.85	0.12	8.03	1.24		0.08
WestTrib	28432.62	5-yr		15		7015.13	7015.41	7015.4	7015.49	0.018859	2.23	6.73	35.91	0.91	8.1	0.22
WestTrib	28432.62	10-yr		130		7015.13	7015.91	7015.91	7016.15	0.016869	3.93	33.1	69.37	1	4.81	0.5
WestTrib	28432.62	25-yr	1.32	415.13	3.54	7015.13	7016.47	7016.47	7016.93	0.012597	5.44	82.41	105.83	1.08	4.78	0.61
WestTrib	28432.62	50-yr	5.34	575.8	8.86	7015.13	7016.71	7016.71	7017.27	0.01164	6.06	109.14	118.47	1.1	4.45	0.67
WestTrib	28432.62	100-yr	12.03	741.13	16.83	7015.13	7016.94	7016.94	7017.58	0.010793	6.55	137.72	130.64	1.1	4.1	0.71
WestTrib	28032.62	2-yr		0.1		7006.99	7007.03	7007.03	7007.04	0.011801	0.42	0.24	11.15	0.5	8.64	0.02
WestTrib	28032.62	5-yr		15		7006.99	7007.29	7007.29	7007.4	0.021789	2.64	5.67	26.05	1	10.99	0.3
WestTrib	28032.62	10-yr		129.87	0.13	7006.99	7008.04	7007.91	7008.25	0.008984	3.72	35.3	53.38	0.81	13.94	0.37
WestTrib	28032.62	25-yr	1.01	411.99	7	7006.99	7008.65	7008.63	7009.23	0.011291	6.16	74.85	76.01	1.08	14.16	0.69
WestTrib	28032.62	50-yr	4.12	569.91	15.98	7006.99	7008.95	7008.95	7009.66	0.010574	6.88	99.84	89.2	1.13	12.37	0.74
WestTrib	28032.62	100-yr	10.73	730.18	29.09	7006.99	7009.25	7009.25	7010.06	0.009682	7.4	128.72	102.79	1.14	11.15	0.76
WestTrib	27507.46	2-yr		14		6993.21	6993.65		6993.67	0.010788	1.19	11.81	49.54	0.43	5.86	0.16

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	27507.46	5-yr		32		6993.21	6993.81		6993.85	0.011399	1.54	20.84	61.87	0.47	5.81	0.24
WestTrib	27507.46	10-yr		150		6993.21	6994.08	6994.05	6994.3	0.040068	3.82	39.25	76.16	0.94	5.3	1.29
WestTrib	27507.46	25-yr	0.3	469.7		6993.21	6994.7	6994.62	6995.06	0.02916	4.83	97.88	118.02	0.93	4.96	1.51
WestTrib	27507.46	50-yr	10.82	659.18		6993.21	6995	6994.88	6995.4	0.022858	5.12	139.06	150.35	0.93	4.85	1.32
WestTrib	27507.46	100-yr	34.26	845.74		6993.21	6995.26	6995.11	6995.7	0.020003	5.41	179.47	161.36	0.89	4.74	1.39
WestTrib	27232.62	2-yr		14		6987.13	6987.65	6987.65	6987.78	0.057863	2.91	4.81	18.45	1.01		0.94
WestTrib	27232.62	5-yr		32		6987.13	6987.85	6987.85	6988.04	0.05147	3.48	9.21	24.84	1.01	7.09	1.19
WestTrib	27232.62	10-yr	0.4	149.52	0.08	6987.13	6988.84		6988.99	0.01123	3.17	48	52.43	0.58	7.64	0.64
WestTrib	27232.62	25-yr	15.49	444.16	10.35	6987.13	6989.72	6989.31	6990.09	0.012263	5.03	107.49	82.91	0.76	8.05	0.99
WestTrib	27232.62	50-yr	33.44	614.31	22.24	6987.13	6990.04	6989.71	6990.55	0.013998	5.96	135.47	93.41	0.84	8.17	1.26
WestTrib	27232.62	100-yr	58.15	783.1	38.76	6987.13	6990.34	6990.05	6990.96	0.014909	6.69	164.86	103.29	0.89	8.33	1.48
WestTrib	26814.63	2-yr		14		6980.37	6980.66	6980.66	6980.73	0.070601	2.11	6.63	48	1		0.61
WestTrib	26814.63	5-yr	0.68	30.48	0.83	6980.37	6980.92	6980.76	6980.95	0.008266	1.4	25.56	90.79	0.45	7.13	0.15
WestTrib	26814.63	10-yr	8.69	132.8	8.51	6980.37	6981.14	6981.12	6981.35	0.034811	3.88	46.69	107.84	0.98	7.01	0.94
WestTrib	26814.63	25-yr	50.1	367.5	52.4	6980.37	6981.63	6981.6	6982.06	0.03442	5.8	110.6	153.63	1.09	7.03	1.55
WestTrib	26814.63	50-yr	80.9	493.99	95.1	6980.37	6981.91	6981.91	6982.37	0.029101	6.21	159.22	195.55	1.06	6.56	1.48
WestTrib	26814.63	100-yr	121.69	613.75	144.56	6980.37	6982.12	6982.12	6982.63	0.027717	6.68	203.49	223.21	1.06	6.45	1.58
WestTrib	26425.04	2-yr		14		6973.44	6973.63	6973.63	6973.7	0.073759	2.02	6.93	55.31	1.01		0.58
WestTrib	26425.04	5-yr		31.98	0.02	6973.44	6973.73	6973.73	6973.82	0.069505	2.47	12.98	74.42	1.04		0.76
WestTrib	26425.04	10-yr	7.35	138.89	3.77	6973.44	6974.26		6974.34	0.010871	2.38	71.52	132.69	0.55	9.21	0.37
WestTrib	26425.04	25-yr	42.69	402.09	25.22	6973.44	6974.86	6974.5	6975.04	0.010897	3.65	179.67	297.72	0.77	9.53	0.41
WestTrib	26425.04	50-yr	108.08	522.78	39.15	6973.44	6975.08		6975.28	0.010747	4.03	249.42	327.19	0.73	9.59	0.51
WestTrib	26425.04	100-yr	186.54	639.66	53.81	6973.44	6975.27	6974.69	6975.5	0.010766	4.38	314.8	353.24	0.71	9.65	0.6
WestTrib	25882.64	2-yr		14		6964.36	6964.57		6964.62	0.051175	1.75	7.99	60.09	0.85	12.2	0.42
WestTrib	25882.64	5-yr	0.13	31.87		6964.36	6964.72		6964.77	0.023484	1.81	17.94	77.22	0.66	12.29	0.34
WestTrib	25882.64	10-yr	23.31	126.29	0.4	6964.36	6964.99	6964.99	6965.14	0.031045	3.34	65.38	282.71	1.13		0.45
WestTrib	25882.64	25-yr	179.95	282.24	7.81	6964.36	6965.29	6965.29	6965.52	0.032874	4.69	167.82	364.34	0.99	10.71	0.95
WestTrib	25882.64	50-yr	290.41	365.49	14.1	6964.36	6965.42	6965.42	6965.69	0.03433	5.27	213.8	377.17	0.97	10.08	1.21
WestTrib	25882.64	100-yr	411.02	447.2	21.78	6964.36	6965.54	6965.54	6965.84	0.034798	5.74	258.33	389.2	0.96	9.69	1.44
WestTrib	25406.2	2-yr			14	6952.93	6952.4		6952.41	0.01849		21.32	169.66	0.33	9.81	0.15
WestTrib	25406.2	5-yr			32	6952.93	6952.48		6952.49	0.022962		36.96	256.53	0.4	9.63	0.21
WestTrib	25406.2	10-yr			150	6952.93	6952.7		6952.73	0.024037		114.68	374.61	0.42	9.21	0.46
WestTrib	25406.2	25-yr		4.54	465.46	6952.93	6953.08		6953.12	0.016185	0.86	278.47	494.32	0.4	8.65	0.57
WestTrib	25406.2	50-yr	0	19.19	650.81	6952.93	6953.25		6953.3	0.014184	1.27	364.38	522.7	0.39	8.39	0.62
WestTrib	25406.2	100-yr	0.63	44.23	835.14	6952.93	6953.4		6953.46	0.013154	1.74	443.81	547.49	0.39	8.14	0.67
WestTrib	25024.12	2-yr	1.69	12.31		6941.81	6942.5	6942.5	6942.61	0.037895	2.86	6.12	26.19	0.98	7.96	0.55

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	25024.12	5-yr	8.03	23.97		6941.81	6942.75		6942.87	0.027721	3.11	14.09	39.91	0.82	7.85	0.61
WestTrib	25024.12	10-yr	66.85	82.96	0.19	6941.81	6943.34		6943.54	0.026753	4.32	48.74	68.9	0.74	7.83	1.18
WestTrib	25024.12	25-yr	225.29	241.22	3.49	6941.81	6943.99	6943.85	6944.48	0.033518	6.93	98.19	82.67	0.9	7.82	2.47
WestTrib	25024.12	50-yr	328.73	334.54	6.73	6941.81	6944.25	6944.21	6944.91	0.037764	8.18	119.45	85.89	0.98	7.84	3.26
WestTrib	25024.12	100-yr	439.98	428.87	11.15	6941.81	6944.5	6944.5	6945.31	0.039216	9.14	141.36	88.71	1.01	7.7	3.88
WestTrib	24630.32	2-yr		21		6933.51	6934.41	6934.37	6934.6	0.014511	3.47	6.05	13.47	0.91	7.19	0.4
WestTrib	24630.32	5-yr		50		6933.51	6934.78	6934.77	6935.02	0.016508	3.96	12.64	25.57	0.99	7.34	0.51
WestTrib	24630.32	10-yr		170		6933.51	6935.35	6935.35	6935.71	0.015764	4.79	35.52	52.3	1.02	6.64	0.66
WestTrib	24630.32	25-yr		510		6933.51	6936.11	6936.11	6936.67	0.013484	6.01	84.8	78.78	1.02	5.38	0.9
WestTrib	24630.32	50-yr		720		6933.51	6936.43	6936.43	6937.07	0.012627	6.46	111.5	88.6	1.01	5.01	0.99
WestTrib	24630.32	100-yr		950		6933.51	6936.74	6936.74	6937.44	0.012005	6.69	142.1	103.21	1	4.73	1.02
WestTrib	24203.51	2-yr		21		6926.49	6927.22	6927.22	6927.42	0.019771	3.53	5.96	16.46	1.03		0.44
WestTrib	24203.51	5-yr		50		6926.49	6927.52	6927.52	6927.68	0.017791	3.26	15.35	44.19	0.97		0.38
WestTrib	24203.51	10-yr		170		6926.49	6927.93	6927.93	6928.32	0.015336	4.98	34.15	46.41	1.02	5.68	0.7
WestTrib	24203.51	25-yr		508.33	1.67	6926.49	6928.76	6928.76	6929.48	0.011721	6.83	76.4	58.29	1.05	4.63	0.95
WestTrib	24203.51	50-yr		713.21	6.79	6926.49	6929.16	6929.16	6930.02	0.010832	7.49	101.08	65.91	1.06	4.19	1.02
WestTrib	24203.51	100-yr		933.8	16.2	6926.49	6929.54	6929.54	6930.52	0.010147	8.02	127.79	73.3	1.06	3.68	1.09
WestTrib	23803.51	2-yr		21		6919.56	6920.31	6920.3	6920.51	0.015534	3.54	5.93	13.55	0.94	7.15	0.42
WestTrib	23803.51	5-yr		50		6919.56	6920.64	6920.64	6920.96	0.015928	4.6	10.88	17.07	1.01	6.86	0.63
WestTrib	23803.51	10-yr		170		6919.56	6921.46	6921.46	6922.02	0.013122	6.02	28.24	25.44	1.01	5.56	0.9
WestTrib	23803.51	25-yr		509.91	0.09	6919.56	6922.68	6922.68	6923.56	0.011363	7.53	67.93	41.2	1.03	4.6	1.15
WestTrib	23803.51	50-yr	1.18	716.45	2.37	6919.56	6923.18	6923.18	6924.21	0.010059	8.16	92.09	55.68	1.12	4.2	1.02
WestTrib	23803.51	100-yr	9.43	928.41	12.16	6919.56	6923.83	6923.83	6924.81	0.008353	8.02	137.19	101.13	1.2	3.57	0.7
WestTrib	23401.38	2-yr		21		6912.71	6913.22	6913.22	6913.35	0.020465	2.98	7.05	25.87	1	5.25	0.35
WestTrib	23401.38	5-yr		50		6912.71	6913.44	6913.44	6913.65	0.018142	3.76	13.31	31.45	1.02	5.24	0.48
WestTrib	23401.38	10-yr		170		6912.71	6913.97	6913.97	6914.38	0.014357	5.15	32.99	40.62	1.01	4.74	0.73
WestTrib	23401.38	25-yr		508.85	1.16	6912.71	6914.88	6914.88	6915.63	0.011302	6.96	74.34	51.49	1.02	4.51	1.01
WestTrib	23401.38	50-yr	0.53	715.56	3.91	6912.71	6915.28	6915.28	6916.19	0.010641	7.68	97.33	62.92	1.08	4.17	1.02
WestTrib	23401.38	100-yr	5.51	935.94	8.55	6912.71	6915.69	6915.69	6916.73	0.009399	8.24	126.38	80.52	1.15	3.78	0.92
WestTrib	23003.51	2-yr		21		6906.3	6906.95	6906.86	6907.03	0.009167	2.33	9.01	26.12	0.7	5.52	0.2
WestTrib	23003.51	5-yr		50		6906.3	6907.19	6907.09	6907.34	0.00993	3.09	16.16	32.49	0.77	5.61	0.31
WestTrib	23003.51	10-yr	0.81	169.01	0.19	6906.3	6907.73	6907.64	6908	0.009892	4.18	42.06	60.06	0.88	5.89	0.43
WestTrib	23003.51	25-yr	11.82	495.48	2.7	6906.3	6908.39	6908.39	6909.06	0.011269	6.68	86.26	77.09	1.1	5.39	0.78
WestTrib	23003.51	50-yr	26.74	687.45	5.81	6906.3	6908.75	6908.75	6909.56	0.010156	7.38	116.75	88.96	1.11	5.07	0.83
WestTrib	23003.51	100-yr	49.46	890.29	10.25	6906.3	6909.1	6909.1	6910.04	0.009435	8.01	149.82	100.26	1.12	4.77	0.88
WestTrib	22594.16	2-yr		21		6901.02	6901.42	6901.42	6901.52	0.021748	2.57	8.18	39.23	0.99	0.59	0.28

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	22594.16	5-yr		50		6901.02	6901.58	6901.58	6901.73	0.020138	3.12	16.04	54.26	1.01	0.54	0.37
WestTrib	22594.16	10-yr		170		6901.02	6901.94	6901.94	6902.1	0.02257	3.27	51.98	178.3	1.07	0.52	0.41
WestTrib	22594.16	25-yr		510		6901.02	6902.29	6902.29	6902.59	0.014886	4.43	115.23	183.66	0.98	0.41	0.58
WestTrib	22594.16	50-yr		719.99	0.01	6901.02	6902.44	6902.44	6902.83	0.01462	5.03	143.32	195.67	1.04	0.41	0.67
WestTrib	22594.16	100-yr		948.75	1.25	6901.02	6902.6	6902.6	6903.06	0.013803	5.5	174.67	202.17	1.04	0.4	0.74
WestTrib	22566.37	2-yr		21		6897.14	6897.66	6897.66	6897.8	0.020335	2.98	7.05	25.66	1	7.19	0.35
WestTrib	22566.37	5-yr		50		6897.14	6897.88	6897.88	6898.1	0.018016	3.76	13.28	31.07	1.01	6.18	0.48
WestTrib	22566.37	10-yr		170		6897.14	6898.42	6898.42	6898.88	0.014183	5.41	31.41	35.49	1.01	5.02	0.78
WestTrib	22566.37	25-yr		510		6897.14	6899.41	6899.41	6900.23	0.011438	7.27	70.11	43.07	1	2.52	1.15
WestTrib	22566.37	50-yr		720		6897.14	6899.86	6899.86	6900.85	0.010888	7.97	90.33	46.54	1.01	1.51	1.3
WestTrib	22566.37	100-yr		950		6897.14	6900.29	6900.29	6901.42	0.010374	8.53	111.35	49.89	1.01	1	1.42
WestTrib	22203.51	2-yr		21		6887.36	6888.02	6888.02	6888.21	0.019314	3.46	6.07	16.91	1.02	0.29	0.43
WestTrib	22203.51	5-yr		50		6887.36	6888.32	6888.32	6888.6	0.016077	4.29	11.65	20.49	1	0.25	0.57
WestTrib	22203.51	10-yr		170		6887.36	6889.03	6889.03	6889.55	0.013468	5.79	29.37	28.78	1.01	0.21	0.85
WestTrib	22203.51	25-yr		510		6887.36	6890.85		6891.25	0.004286	5.04	101.13	51.46	0.63	0.11	0.52
WestTrib	22203.51	50-yr	0.25	715.8	3.95	6887.36	6892.1		6892.37	0.001739	4.11	187.1	109.83	0.55	0.05	0.18
WestTrib	22203.51	100-yr	2.99	892.5	54.52	6887.36	6893.34		6893.53	0.00081	3.57	348.34	145.85	0.4	0.02	0.12
WestTrib	22188.6*	2-yr		21		6887.12	6887.74	6887.74	6887.92	0.01869	3.42	6.14	17.01	1	0.28	0.42
WestTrib	22188.6*	5-yr		50		6887.12	6888.03	6888.03	6888.3	0.016201	4.21	11.87	21.59	1	0.25	0.55
WestTrib	22188.6*	10-yr		170		6887.12	6888.73	6888.73	6889.22	0.013429	5.66	30.01	30.36	1	0.21	0.82
WestTrib	22188.6*	25-yr		510		6887.12	6890.87		6891.13	0.002496	4.13	123.35	56.45	0.49	0.07	0.34
WestTrib	22188.6*	50-yr		720		6887.12	6892.11		6892.31	0.001208	3.6	200.21	65.25	0.36	0.04	0.23
WestTrib	22188.6*	100-yr	0.81	937.91	11.27	6887.12	6893.34		6893.51	0.000673	3.33	315.82	121.34	0.36	0.02	0.11
WestTrib	22173.7*	2-yr		21		6886.88	6887.41	6887.41	6887.6	0.018825	3.52	5.97	15.93	1.01	0.28	0.44
WestTrib	22173.7*	5-yr		50		6886.88	6887.72	6887.72	6887.99	0.016692	4.18	11.97	22.57	1.01	0.25	0.55
WestTrib	22173.7*	10-yr		170		6886.88	6888.41	6888.4	6888.89	0.013162	5.53	30.75	31.83	0.99	0.23	0.79
WestTrib	22173.7*	25-yr		510		6886.88	6890.88		6891.06	0.001478	3.43	148.69	60.81	0.39	0.04	0.22
WestTrib	22173.7*	50-yr		720		6886.88	6892.12		6892.28	0.000809	3.13	229.72	68	0.3	0.03	0.17
WestTrib	22173.7*	100-yr	0.07	949.9	0.04	6886.88	6893.35		6893.49	0.000525	3.01	316.79	89.96	0.28	0.02	0.11
WestTrib	22158.9*	2-yr		21		6886.64	6887.1	6887.1	6887.28	0.018317	3.41	6.16	16.89	1	0.28	0.42
WestTrib	22158.9*	5-yr		50		6886.64	6887.39	6887.39	6887.67	0.016638	4.27	11.7	21.28	1.02	0.25	0.57
WestTrib	22158.9*	10-yr		170		6886.64	6888.4		6888.65	0.005863	4.05	41.99	37.82	0.68	0.12	0.4
WestTrib	22158.9*	25-yr		510		6886.64	6890.89		6891.02	0.000916	2.89	176.73	65.38	0.31	0.03	0.15
WestTrib	22158.9*	50-yr		720		6886.64	6892.13		6892.25	0.000555	2.75	262.26	71.3	0.25	0.02	0.13
WestTrib	22158.9*	100-yr		950		6886.64	6893.36		6893.47	0.000395	2.7	352.12	75.36	0.22	0.02	0.11
WestTrib	22144.0*	2-yr		21		6886.41	6886.81	6886.81	6886.98	0.018548	3.29	6.38	18.68	0.99	0.19	0.39

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	22144.0*	5-yr		50		6886.41	6887.11	6887.09	6887.35	0.01408	3.96	12.64	22.77	0.94	0.17	0.49
WestTrib	22144.0*	10-yr		170		6886.41	6888.39		6888.53	0.002888	3.01	56.56	46.87	0.48	0.06	0.22
WestTrib	22144.0*	25-yr		510		6886.41	6890.9		6890.99	0.000591	2.46	207.18	69.95	0.25	0.02	0.11
WestTrib	22144.0*	50-yr		720		6886.41	6892.14		6892.23	0.00039	2.42	297.46	74.83	0.21	0.01	0.09
WestTrib	22144.0*	100-yr		950		6886.41	6893.36		6893.45	0.000294	2.43	391.38	78.57	0.19	0.01	0.09
WestTrib	22129.18	2-yr		21		6886.17	6886.66	6886.51	6886.73	0.006032	2.18	9.65	22.61	0.59		0.16
WestTrib	22129.18	5-yr		50		6886.17	6887.09	6886.77	6887.18	0.003671	2.44	20.5	27.82	0.5		0.17
WestTrib	22129.18	10-yr		170		6886.17	6888.4	6887.46	6888.47	0.001351	2.26	75.21	54.05	0.34		0.12
WestTrib	22129.18	25-yr		510		6886.17	6890.9	6888.42	6890.97	0.000392	2.12	240.33	74.46	0.21		0.08
WestTrib	22129.18	50-yr		720		6886.17	6892.14	6888.81	6892.21	0.000274	2.15	335.18	78.55	0.18		0.07
WestTrib	22129.18	100-yr		950		6886.17	6893.37	6889.19	6893.44	0.000213	2.21	430.26	82.04	0.17		0.07
WestTrib	21948.92		Culvert													
WestTrib	21824.12	2-yr		21		6883.52	6884.5	6884.39	6884.56	0.018282	2.09	10.07	34.84	0.6	0.35	0.43
WestTrib	21824.12	5-yr		50		6883.52	6884.74	6884.59	6884.88	0.019319	3	16.67	35.09	0.67	0.37	0.75
WestTrib	21824.12	10-yr		170		6883.52	6885.33	6885.19	6885.75	0.024002	5.22	32.54	35.71	0.84	0.51	1.81
WestTrib	21824.12	25-yr		510		6883.52	6886.37	6886.37	6887.47	0.027208	8.42	60.59	36.71	0.99	0.76	3.82
WestTrib	21824.12	50-yr		720		6883.52	6886.96	6886.96	6888.34	0.025036	9.42	76.4	37.23	0.99	0.8	4.43
WestTrib	21824.12	100-yr		950		6883.52	6887.47	6887.47	6889.19	0.025047	10.53	90.21	37.68	1.01	0.87	5.24
WestTrib	21801.9*	2-yr		21		6883.32	6884.17	6884.02	6884.22	0.012669	1.7	12.39	34.21	0.5	0.28	0.29
WestTrib	21801.9*	5-yr		50		6883.32	6884.43	6884.22	6884.51	0.012834	2.32	21.54	37.38	0.54	0.29	0.46
WestTrib	21801.9*	10-yr		170		6883.32	6885.02	6884.73	6885.25	0.014536	3.8	44.77	40.43	0.64	0.34	0.99
WestTrib	21801.9*	25-yr		510		6883.32	6885.92	6885.64	6886.51	0.019275	6.18	82.51	43.78	0.79	0.45	2.21
WestTrib	21801.9*	50-yr		720		6883.32	6886.29	6886.08	6887.11	0.021736	7.26	99.16	44.99	0.86	0.51	2.9
WestTrib	21801.9*	100-yr		950		6883.32	6886.63	6886.51	6887.7	0.02432	8.3	114.5	46.07	0.93	0.58	3.64
WestTrib	21779.8*	2-yr		21		6883.13	6883.89		6883.93	0.012721	1.69	12.4	34.44	0.5	0.3	0.29
WestTrib	21779.8*	5-yr		50		6883.13	6884.13		6884.22	0.013659	2.32	21.56	39.42	0.55	0.3	0.47
WestTrib	21779.8*	10-yr		170		6883.13	6884.7		6884.91	0.015677	3.67	46.33	46.99	0.65	0.36	0.96
WestTrib	21779.8*	25-yr		510		6883.13	6885.53		6886.06	0.019762	5.84	87.3	52.01	0.79	0.45	2.04
WestTrib	21779.8*	50-yr		720		6883.13	6885.88		6886.6	0.022081	6.81	105.68	54.17	0.86	0.51	2.64
WestTrib	21779.8*	100-yr		950		6883.13	6886.19	6886.05	6887.11	0.024502	7.74	122.8	56.11	0.92	0.57	3.28
WestTrib	21757.6*	2-yr		21		6882.93	6883.58		6883.63	0.014219	1.7	12.33	36.93	0.52	0.16	0.3
WestTrib	21757.6*	5-yr		50		6882.93	6883.85		6883.92	0.012834	2.18	22.89	43.75	0.53	0.18	0.42
WestTrib	21757.6*	10-yr		170		6882.93	6884.35		6884.55	0.016573	3.53	48.15	54.17	0.66	0.33	0.92
WestTrib	21757.6*	25-yr		510		6882.93	6885.16		6885.61	0.018894	5.38	94.76	62.14	0.77	0.39	1.78
WestTrib	21757.6*	50-yr		720		6882.93	6885.48		6886.08	0.020939	6.24	115.48	65.48	0.83	0.43	2.28
WestTrib	21757.6*	100-yr		950		6882.93	6885.77	6885.59	6886.54	0.022951	7.03	135.17	68.5	0.88	0.47	2.79

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	21735.5*	2-yr		21		6882.74	6883.45		6883.47	0.004083	1.04	20.11	49.28	0.29	0.11	0.1
WestTrib	21735.5*	5-yr		50		6882.74	6883.71		6883.74	0.004896	1.47	34.01	57.12	0.34	0.12	0.18
WestTrib	21735.5*	10-yr		170		6882.74	6884.07		6884.22	0.012461	3.05	55.65	62.83	0.57	0.21	0.69
WestTrib	21735.5*	25-yr		510		6882.74	6884.9		6885.21	0.013523	4.48	113.9	76.84	0.65	0.25	1.25
WestTrib	21735.5*	50-yr	0.06	719.94		6882.74	6885.25		6885.65	0.013915	5.09	141.62	81.84	0.68	0.26	1.49
WestTrib	21735.5*	100-yr	0.78	949.22	0	6882.74	6885.57		6886.07	0.013899	5.67	168.32	83.77	0.7	0.27	1.73
WestTrib	21713.34	2-yr		50		6882.54	6883.33		6883.36	0.005318	1.43	34.99	65.23	0.34	3.59	0.18
WestTrib	21713.34	5-yr		93		6882.54	6883.57		6883.62	0.005708	1.81	51.4	70.93	0.37	3.67	0.26
WestTrib	21713.34	10-yr		180		6882.54	6883.93		6884.01	0.006156	2.29	78.48	80.23	0.41	3.78	0.37
WestTrib	21713.34	25-yr	0.24	539.76		6882.54	6884.77		6884.97	0.007119	3.53	153.37	93	0.48	3.9	0.73
WestTrib	21713.34	50-yr	1.09	758.84	0.07	6882.54	6885.13		6885.39	0.007387	4.09	187.15	95.54	0.51	3.92	0.9
WestTrib	21713.34	100-yr	2.75	996.71	0.53	6882.54	6885.47		6885.8	0.007635	4.6	219.8	98	0.54	3.95	1.06
WestTrib	21430.2	2-yr		50		6879.26	6879.65	6879.65	6879.77	0.060514	2.81	17.81	74.79	1.01	0.62	0.9
WestTrib	21430.2	5-yr		93		6879.26	6879.78	6879.78	6879.95	0.052517	3.32	28.01	82.22	1	0.63	1.12
WestTrib	21430.2	10-yr		180		6879.26	6879.97	6879.97	6880.23	0.047	4.15	43.37	83.8	1.02	0.65	1.52
WestTrib	21430.2	25-yr		540		6879.26	6880.54	6880.54	6881.06	0.036138	5.82	92.85	88.69	1	0.7	2.36
WestTrib	21430.2	50-yr		760		6879.26	6880.81	6880.81	6881.46	0.033712	6.46	117.64	91.06	1	0.72	2.71
WestTrib	21430.2	100-yr		1000		6879.26	6881.08	6881.08	6881.85	0.032051	7.03	142.33	93.47	1	0.74	3.04
WestTrib	21388.91	2-yr		50		6872.81	6873.62	6873.38	6873.65	0.006339	1.42	35.14	75.23	0.37	5.52	0.18
WestTrib	21388.91	5-yr		93		6872.81	6873.84	6873.51	6873.89	0.006547	1.8	51.8	80.11	0.39	5.56	0.26
WestTrib	21388.91	10-yr		180		6872.81	6874.14	6873.71	6874.23	0.006961	2.35	76.44	82.35	0.43	5.62	0.4
WestTrib	21388.91	25-yr		540		6872.81	6874.95	6874.31	6875.17	0.007987	3.7	145.79	88.05	0.51	5.72	0.82
WestTrib	21388.91	50-yr		760		6872.81	6875.33	6874.59	6875.61	0.008283	4.24	179.23	90.73	0.53	5.76	1.02
WestTrib	21388.91	100-yr		1000		6872.81	6875.67	6874.88	6876.02	0.008617	4.74	211.16	93.21	0.55	5.79	1.21
WestTrib	21003.51	2-yr		50		6867.66	6868	6868	6868.13	0.057455	2.86	17.49	68.8	1	4.73	0.91
WestTrib	21003.51	5-yr		93		6867.66	6868.14	6868.14	6868.32	0.053826	3.4	27.34	78.91	1.02	4.9	1.16
WestTrib	21003.51	10-yr		180		6867.66	6868.33	6868.33	6868.6	0.04727	4.18	43.02	82.5	1.02	5.08	1.54
WestTrib	21003.51	25-yr		540		6867.66	6868.91	6868.91	6869.44	0.035964	5.84	92.53	87.63	1	5.3	2.37
WestTrib	21003.51	50-yr		760		6867.66	6869.19	6869.19	6869.84	0.033907	6.5	116.91	90.04	1.01	5.43	2.74
WestTrib	21003.51	100-yr		1000		6867.66	6869.46	6869.46	6870.23	0.031777	7.04	142.03	92.38	1	5.47	3.04
WestTrib	20603.51	2-yr		50		6861.66	6862.34		6862.36	0.004907	1.27	39.31	82.24	0.32	1.59	0.15
WestTrib	20603.51	5-yr		93		6861.66	6862.54		6862.59	0.005222	1.65	56.41	83.75	0.35	1.62	0.22
WestTrib	20603.51	10-yr		180		6861.66	6862.85		6862.93	0.005692	2.18	82.61	86.01	0.39	1.68	0.34
WestTrib	20603.51	25-yr		540		6861.66	6863.69		6863.87	0.006631	3.44	156.85	91.99	0.46	1.78	0.7
WestTrib	20603.51	50-yr		760		6861.66	6864.06		6864.3	0.007023	3.97	191.48	94.62	0.49	1.81	0.88
WestTrib	20603.51	100-yr		1000		6861.66	6864.41		6864.72	0.007293	4.43	225.66	97.15	0.51	1.84	1.05

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	20469.47	2-yr		50		6860.33	6860.65	6860.65	6860.78	0.057486	2.84	17.61	69.97	1	0.71	0.9
WestTrib	20469.47	5-yr		93		6860.33	6860.79	6860.79	6860.96	0.051121	3.38	27.52	77.1	1	0.68	1.14
WestTrib	20469.47	10-yr		180		6860.33	6860.99	6860.99	6861.25	0.045472	4.13	43.56	82.65	1	0.66	1.49
WestTrib	20469.47	25-yr		540		6860.33	6861.56	6861.56	6862.09	0.036318	5.86	92.16	87.34	1.01	0.67	2.39
WestTrib	20469.47	50-yr		760		6860.33	6861.84	6861.84	6862.49	0.033487	6.49	117.18	89.68	1	0.69	2.72
WestTrib	20469.47	100-yr		1000		6860.33	6862.11	6862.11	6862.88	0.03202	7.07	141.43	91.88	1	0.72	3.06
WestTrib	20430.88	2-yr		50		6854.38	6855.05	6854.85	6855.08	0.00846	1.53	32.73	78.22	0.42	2.9	0.22
WestTrib	20430.88	5-yr		93		6854.38	6855.24	6854.97	6855.3	0.008134	1.92	48.35	79.34	0.43	2.88	0.31
WestTrib	20430.88	10-yr		180		6854.38	6855.55	6855.17	6855.65	0.007961	2.47	72.98	81.08	0.46	2.88	0.45
WestTrib	20430.88	25-yr		540		6854.38	6856.39	6855.77	6856.61	0.008187	3.77	143.32	85.84	0.51	3.01	0.85
WestTrib	20430.88	50-yr		760		6854.38	6856.77	6856.05	6857.06	0.008519	4.33	175.65	87.96	0.54	3.03	1.05
WestTrib	20430.88	100-yr		1000		6854.38	6857.09	6856.31	6857.46	0.009099	4.88	204.86	89.85	0.57	3.01	1.28
WestTrib	20203.51	2-yr		50		6851.33	6852.1	6851.97	6852.18	0.021305	2.36	21.15	52.55	0.66	1.19	0.54
WestTrib	20203.51	5-yr		93		6851.33	6852.3		6852.42	0.022246	2.84	32.78	63.96	0.7	1.18	0.71
WestTrib	20203.51	10-yr		180		6851.33	6852.57		6852.75	0.023113	3.48	51.76	76.55	0.75	1.13	0.97
WestTrib	20203.51	25-yr		540		6851.33	6853.19		6853.62	0.024406	5.27	102.51	84.58	0.84	1.01	1.84
WestTrib	20203.51	50-yr		760		6851.33	6853.5		6854.03	0.023162	5.88	129.32	86.98	0.85	0.99	2.14
WestTrib	20203.51	100-yr		1000		6851.33	6853.84		6854.45	0.020627	6.26	159.8	89.59	0.83	1	2.29
WestTrib	20162.9*	2-yr		50		6850.25	6850.83	6850.8	6850.99	0.041939	3.22	15.51	40.22	0.91	1.15	1.01
WestTrib	20162.9*	5-yr		93		6850.25	6851.05	6851.01	6851.25	0.03871	3.6	25.83	53.39	0.91	1.15	1.17
WestTrib	20162.9*	10-yr		180		6850.25	6851.34	6851.28	6851.62	0.033565	4.26	42.23	60.88	0.9	1.14	1.45
WestTrib	20162.9*	25-yr		540		6850.25	6852.14	6852	6852.61	0.024891	5.52	97.84	76.4	0.86	1.19	1.98
WestTrib	20162.9*	50-yr		760		6850.25	6852.46	6852.33	6853.05	0.025216	6.14	123.83	83.23	0.89	1.18	2.33
WestTrib	20162.9*	100-yr		1000		6850.25	6852.69	6852.64	6853.45	0.029117	7	142.8	87.69	0.97	1.14	2.95
WestTrib	20122.3*	2-yr		50		6849.17	6849.75	6849.62	6849.84	0.019711	2.42	20.68	46.84	0.64	1.23	0.54
WestTrib	20122.3*	5-yr		93		6849.17	6849.96	6849.81	6850.1	0.021165	3.01	30.86	52.96	0.7	1.24	0.77
WestTrib	20122.3*	10-yr		180		6849.17	6850.26	6850.1	6850.47	0.023065	3.72	48.44	64.74	0.76	1.26	1.08
WestTrib	20122.3*	25-yr		540		6849.17	6850.82	6850.82	6851.42	0.034343	6.22	86.84	72.2	1	0.89	2.57
WestTrib	20122.3*	50-yr		760		6849.17	6851.14	6851.14	6851.87	0.032786	6.87	110.63	76.45	1.01	0.7	2.95
WestTrib	20122.3*	100-yr		1000		6849.17	6851.53	6851.45	6852.3	0.0272	7.08	141.34	81.16	0.94	0.55	2.95
WestTrib	20081.7*	2-yr		50		6848.08	6848.45	6848.45	6848.61	0.051738	3.22	15.54	47.28	0.99	0.68	1.06
WestTrib	20081.7*	5-yr		93		6848.08	6848.62	6848.62	6848.85	0.047229	3.86	24.12	52.25	1	0.62	1.36
WestTrib	20081.7*	10-yr		180		6848.08	6848.88	6848.88	6849.21	0.043176	4.61	39.09	60.63	1.01	0.57	1.74
WestTrib	20081.7*	25-yr		540		6848.08	6850.02		6850.33	0.01282	4.46	121.07	79.04	0.64	0.31	1.22
WestTrib	20081.7*	50-yr		760		6848.08	6850.74		6851.01	0.007567	4.23	179.77	85.5	0.51	0.21	0.99
WestTrib	20081.7*	100-yr		1000		6848.08	6851.5		6851.75	0.004953	4.05	246.87	90.9	0.43	0.18	0.83

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	20041.14	2-yr		50		6847	6847.57	6847.33	6847.62	0.007253	1.71	29.21	62.31	0.4		0.25
WestTrib	20041.14	5-yr		93		6847	6847.87	6847.47	6847.94	0.006102	2.08	44.64	70.46	0.4		0.32
WestTrib	20041.14	10-yr		180		6847	6848.35	6847.73	6848.45	0.005136	2.58	69.87	77.56	0.39		0.43
WestTrib	20041.14	25-yr		540		6847	6849.81	6848.53	6850.02	0.003907	3.68	146.62	90.27	0.39		0.68
WestTrib	20041.14	50-yr		760		6847	6850.54	6848.9	6850.8	0.003562	4.11	185.04	95.25	0.39		0.78
WestTrib	20041.14	100-yr		1000		6847	6851.26	6849.28	6851.57	0.003335	4.49	222.52	98.82	0.38		0.88
WestTrib	19961.38		Culvert													
WestTrib	19894.2	2-yr		50		6846	6846.31	6846.31	6846.47	0.056486	3.22	15.53	58.47	1.02	1.08	1.08
WestTrib	19894.2	5-yr		93		6846	6846.48	6846.48	6846.71	0.045734	3.87	24.02	60.75	0.99	1.05	1.36
WestTrib	19894.2	10-yr		180		6846	6846.74	6846.74	6847.1	0.039815	4.84	37.21	63.58	0.99	0.92	1.83
WestTrib	19894.2	25-yr		540		6846	6847.49	6847.49	6848.29	0.034099	7.17	75.36	66.29	1.03	0.66	3.18
WestTrib	19894.2	50-yr		760		6846	6847.93	6847.93	6848.87	0.028546	7.79	97.57	69.71	0.99	0.66	3.44
WestTrib	19894.2	100-yr		1000		6846	6848.32	6848.32	6849.45	0.026959	8.54	117.03	75.05	0.99	0.71	3.9
WestTrib	19871.5*	2-yr		50		6844.86	6845.24	6845.21	6845.39	0.040029	3.03	16.48	45.08	0.88	1	0.91
WestTrib	19871.5*	5-yr		93		6844.86	6845.39	6845.39	6845.64	0.046616	4.01	23.22	46.92	1	0.21	1.44
WestTrib	19871.5*	10-yr		180		6844.86	6845.67	6845.67	6846.04	0.041324	4.93	36.51	49.29	1.01	0.3	1.9
WestTrib	19871.5*	25-yr		540		6844.86	6846.88		6847.34	0.014932	5.39	100.2	54.55	0.7	0.29	1.69
WestTrib	19871.5*	50-yr		760		6844.86	6847.37		6847.92	0.014982	5.94	128.05	60.46	0.72	0.33	1.95
WestTrib	19871.5*	100-yr		1000		6844.86	6847.79		6848.44	0.016127	6.46	154.78	67.98	0.75	0.36	2.26
WestTrib	19848.8*	2-yr		50		6843.72	6844.18	6844.18	6844.39	0.048421	3.68	13.59	32.1	1	0.21	1.28
WestTrib	19848.8*	5-yr		93		6843.72	6845.24		6845.29	0.002465	1.78	52.32	39.05	0.27	0.04	0.2
WestTrib	19848.8*	10-yr		180		6843.72	6845.62		6845.73	0.004151	2.67	67.46	40.25	0.36	0.08	0.43
WestTrib	19848.8*	25-yr		540		6843.72	6846.7		6847.04	0.009057	4.7	114.86	52.4	0.56	0.23	1.21
WestTrib	19848.8*	50-yr		760		6843.72	6847.13		6847.59	0.011809	5.46	139.23	62.07	0.64	0.31	1.62
WestTrib	19848.8*	100-yr		1000		6843.72	6847.5		6848.07	0.014261	6.11	163.76	71.19	0.71	0.34	2.01
WestTrib	19826.1*	2-yr		50		6842.58	6844	6843.26	6844.05	0.002699	1.69	29.58	25.31	0.28	0.09	0.19
WestTrib	19826.1*	5-yr		93		6842.58	6845.22	6843.56	6845.25	0.000943	1.49	62.35	28.52	0.18	0.05	0.12
WestTrib	19826.1*	10-yr		180		6842.58	6845.56	6843.99	6845.65	0.002678	2.48	72.51	33.91	0.3	0.09	0.34
WestTrib	19826.1*	25-yr		540		6842.58	6846.48	6845.28	6846.81	0.011232	4.58	117.94	73.67	0.6	0.23	1.23
WestTrib	19826.1*	50-yr		760		6842.58	6846.92	6846.17	6847.29	0.012712	4.89	155.47	86.44	0.64	0.24	1.4
WestTrib	19826.1*	100-yr		1000		6842.58	6847.3	6846.73	6847.73	0.011916	5.27	189.65	89.63	0.64	0.24	1.54
WestTrib	19803.51	2-yr		65		6841.44	6843.84		6843.96	0.004657	2.7	24.11	14.46	0.37	4.19	0.45
WestTrib	19803.51	5-yr		120		6841.44	6845.13		6845.2	0.005417	2.09	57.41	59.34	0.37	4.86	0.32
WestTrib	19803.51	10-yr		186		6841.44	6845.48		6845.56	0.005667	2.25	82.8	80.09	0.39	4.95	0.36
WestTrib	19803.51	25-yr		548		6841.44	6846.4	6845.55	6846.58	0.006211	3.44	159.32	87.07	0.45	5.04	0.69

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	19803.51	50-yr		769		6841.44	6846.81	6845.86	6847.05	0.006478	3.93	195.49	90.13	0.47	5.11	0.85
WestTrib	19803.51	100-yr		1017		6841.44	6847.2	6846.17	6847.5	0.006754	4.4	231.21	93	0.49	5.16	1.02
WestTrib	19403.51	2-yr		65		6837.41	6839.18	6839.18	6839.76	0.039943	6.12	10.63	9.27	1.01	0.24	2.61
WestTrib	19403.51	5-yr		120		6837.41	6840.07	6840.07	6840.35	0.047193	4.24	28.33	52.12	1.01	0.25	1.57
WestTrib	19403.51	10-yr		186		6837.41	6840.27	6840.27	6840.61	0.044426	4.7	39.54	59.53	1.02	0.42	1.81
WestTrib	19403.51	25-yr		548		6837.41	6841	6841	6841.54	0.036967	5.92	92.49	86.34	1.01	1.4	2.44
WestTrib	19403.51	50-yr		769		6837.41	6841.28	6841.28	6841.94	0.034956	6.51	118.18	91.94	1.01	1.97	2.77
WestTrib	19403.51	100-yr		1017		6837.41	6841.56	6841.56	6842.33	0.032836	7.07	143.95	94.41	1.01	2.53	3.08
WestTrib	19003.51	2-yr		65		6834.91	6838.08		6838.08	0.000044	0.32	203.85	97.85	0.04	0	0.01
WestTrib	19003.51	5-yr		120		6834.91	6838.24		6838.24	0.000119	0.55	219.13	99.01	0.06	0	0.02
WestTrib	19003.51	10-yr		186		6834.91	6838.4		6838.41	0.00023	0.79	234.79	100.17	0.09	0.01	0.03
WestTrib	19003.51	25-yr		548		6834.91	6838.91		6838.97	0.001074	1.91	287.33	104.01	0.2	0.03	0.18
WestTrib	19003.51	50-yr		769		6834.91	6839.13		6839.23	0.001668	2.48	310.57	105.71	0.25	0.05	0.3
WestTrib	19003.51	100-yr		1017		6834.91	6839.35		6839.49	0.002353	3.05	333.36	107.34	0.31	0.08	0.45
WestTrib	18705.72	2-yr	6.71	55.91	2.38	6832.31	6838.08	6833.59	6838.08	0	0.06	1432.49	408.23	0.01		0
WestTrib	18705.72	5-yr	13.2	102.34	4.46	6832.31	6838.24	6833.9	6838.24	0.000001	0.1	1497.09	413.56	0.01		0
WestTrib	18705.72	10-yr	21.7	157.29	7.01	6832.31	6838.4	6834.17	6838.4	0.000003	0.15	1563.15	418.94	0.01		0
WestTrib	18705.72	25-yr	74.91	451.46	21.62	6832.31	6838.93	6835.28	6838.94	0.000016	0.41	1791.99	441	0.03		0
WestTrib	18705.72	50-yr	112.83	625.31	30.86	6832.31	6839.17	6835.83	6839.17	0.000027	0.54	1896.65	449.69	0.04		0.01
WestTrib	18705.72	100-yr	158.72	816.8	41.48	6832.31	6839.4	6836.37	6839.41	0.000042	0.68	2001.23	455.13	0.05		0.01
WestTrib	18654		Mult Open													
WestTrib	18554.84	2-yr		14		6822.79	6824.03	6823.63	6824.1	0.002478	2.05	6.84	13.02	0.41	1.29	0.12
WestTrib	18554.84	5-yr		46		6822.79	6824.51	6824.22	6824.77	0.00566	4.09	11.24	16.37	0.66	0.63	0.41
WestTrib	18554.84	10-yr		95.53	1.47	6822.79	6825.63	6824.8	6825.77	0.00367	3.12	33.5	48.45	0.58	0.09	0.2
WestTrib	18554.84	25-yr	1.99	486.27	19.74	6822.79	6826.66	6826.21	6827.01	0.004344	4.85	117.91	72.85	0.66	0.23	0.43
WestTrib	18554.84	50-yr	12.1	672.47	42.43	6822.79	6828.55	6826.56	6828.71	0.000781	3.3	268.61	86.32	0.32	0.09	0.15
WestTrib	18554.84	100-yr	35.11	860	76.89	6822.79	6831.66	6826.93	6831.73	0.000169	2.3	565.89	105.96	0.17	0.04	0.05
WestTrib	18275.78	2-yr		14		6821.79	6822.66		6822.8	0.011097	3.01	4.66	10.5	0.8	0.07	0.3
WestTrib	18275.78	5-yr		46		6821.79	6824.12		6824.13	0.000897	1.04	44.06	74.3	0.24	0.03	0.03
WestTrib	18275.78	10-yr		97		6821.79	6825.68		6825.68	0.000017	0.25	389.6	283.32	0.04	0	0
WestTrib	18275.78	25-yr		508		6821.79	6826.77		6826.78	0.000066	0.72	702.26	291.76	0.08	0.03	0.01
WestTrib	18275.78	50-yr		727		6821.79	6828.61		6828.61	0.000021	0.58	1250.66	305.09	0.05	0.01	0.01
WestTrib	18275.78	100-yr		972		6821.79	6831.69		6831.69	0.000006	0.44	2225.41	327.15	0.03	0.01	0
WestTrib	17889.25	2-yr		14		6820.6	6822.73	6821.35	6822.73	0.000017	0.28	50.72	68.81	0.04		0
WestTrib	17889.25	5-yr		46		6820.6	6824.1	6821.56	6824.1	0.000023	0.48	94.93	76.94	0.05		0

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17889.25	10-yr		97		6820.6	6825.68	6821.82	6825.68	0.000007	0.3	320.14	84.65	0.03		0
WestTrib	17889.25	25-yr		508		6820.6	6826.73	6823.16	6826.75	0.000085	1.23	411.73	90.41	0.1		0.02
WestTrib	17889.25	50-yr		727		6820.6	6828.58	6823.69	6828.6	0.000062	1.23	588.84	101.2	0.09		0.02
WestTrib	17889.25	100-yr		972		6820.6	6831.67	6824.22	6831.69	0.00003	1.04	930.5	119.53	0.07		0.01
WestTrib	17884		Culvert													
WestTrib	17881.36	2-yr		14		6820.95	6822.01	6821.16	6822.01	0.000071	0.42	33.06	43.61	0.07	0	0
WestTrib	17881.36	5-yr		46		6820.95	6822.66	6821.38	6822.67	0.000148	0.85	54.07	44.92	0.12	0	0.02
WestTrib	17881.36	10-yr		97		6820.95	6823.34	6821.65	6823.37	0.000212	1.28	76.05	47.02	0.15	0	0.03
WestTrib	17881.36	25-yr		508		6820.95	6826.7	6822.96	6826.74	0.000182	1.72	295.61	68.54	0.15	0.01	0.05
WestTrib	17881.36	50-yr		727		6820.95	6828.54	6823.49	6828.58	0.000128	1.69	430.8	78.67	0.13	0.01	0.04
WestTrib	17881.36	100-yr		972		6820.95	6831.65	6823.54	6831.68	0.000059	1.38	703.78	96.54	0.09	0.01	0.03
WestTrib	17876	2-yr		14		6821.16	6822.01	6821.46	6822.01	0.000157	0.48	29.41	42.95	0.1		0.01
WestTrib	17876	5-yr		46		6821.16	6822.66	6821.64	6822.67	0.000187	0.8	57.7	43.8	0.12		0.01
WestTrib	17876	10-yr		97		6821.16	6823.34	6821.86	6823.36	0.000215	1.1	87.88	44.63	0.14		0.03
WestTrib	17876	25-yr		508		6821.16	6826.67	6822.94	6826.74	0.000253	2.08	243.68	58.48	0.17		0.07
WestTrib	17876	50-yr		727		6821.16	6828.5	6823.4	6828.57	0.000176	2.16	336.65	69.13	0.15		0.07
WestTrib	17876	100-yr		972		6821.16	6831.61	6823.84	6831.67	0.000087	1.96	494.75	85.2	0.11		0.05
WestTrib	17840		Culvert													
WestTrib	17784.85	2-yr		26		6820.15	6820.94	6820.78	6821	0.030546	1.97	13.19	62.35	0.56	0.99	0.74
WestTrib	17784.85	5-yr		54		6820.15	6821.15	6820.99	6821.26	0.033727	2.56	21.1	69.65	0.62	1	1.12
WestTrib	17784.85	10-yr		86		6820.15	6821.35	6821.15	6821.48	0.032792	2.96	29.05	74.47	0.63	1.02	1.38
WestTrib	17784.85	25-yr		410		6820.15	6822.32	6822.07	6822.78	0.036575	5.45	75.2	87.36	0.77	0.92	3.55
WestTrib	17784.85	50-yr		670		6820.15	6822.95	6822.59	6823.58	0.031785	6.36	105.31	93.98	0.76	0.89	4.33
WestTrib	17784.85	100-yr		890		6820.15	6823.44	6822.96	6824.18	0.028437	6.89	129.11	103.14	0.74	0.83	4.74
WestTrib	17759.6*	2-yr		26		6819.4	6819.97		6820	0.016023	1.4	18.55	48.9	0.4	0.71	0.38
WestTrib	17759.6*	5-yr		54		6819.4	6820.21		6820.26	0.014714	1.72	31.4	57.04	0.41	0.71	0.5
WestTrib	17759.6*	10-yr		86		6819.4	6820.41		6820.47	0.015329	2.01	42.84	63.58	0.43	0.66	0.64
WestTrib	17759.6*	25-yr		410		6819.4	6821.73		6821.86	0.009434	2.98	137.64	78.4	0.4	0.39	1.02
WestTrib	17759.6*	50-yr		670		6819.4	6822.53		6822.69	0.008175	3.26	205.82	92.17	0.38	0.33	1.13
WestTrib	17759.6*	100-yr		890		6819.4	6823.18		6823.35	0.006656	3.31	269.12	100.84	0.36	0.27	1.1
WestTrib	17734.3*	2-yr		26		6818.66	6819.27		6819.3	0.015073	1.44	18.09	43.8	0.39	0.71	0.39
WestTrib	17734.3*	5-yr		54		6818.66	6819.5		6819.56	0.016383	1.85	29.17	51.44	0.43	0.56	0.58
WestTrib	17734.3*	10-yr		86		6818.66	6819.74		6819.8	0.013843	2.08	41.38	54.04	0.42	0.47	0.66
WestTrib	17734.3*	25-yr		410		6818.66	6821.35		6821.47	0.007714	2.83	145.07	77	0.36	0.31	0.9
WestTrib	17734.3*	50-yr		670		6818.66	6822.21		6822.36	0.006396	3.1	216.11	86.62	0.35	0.26	0.99

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17734.3*	100-yr		890		6818.66	6822.92		6823.08	0.005155	3.18	279.91	91.74	0.32	0.22	0.97
WestTrib	17709.1*	2-yr		26		6817.91	6818.57		6818.6	0.015952	1.57	16.52	36.44	0.41	0.4	0.45
WestTrib	17709.1*	5-yr		54		6817.91	6818.95		6818.99	0.009663	1.72	31.36	41.48	0.35	0.32	0.45
WestTrib	17709.1*	10-yr		86		6817.91	6819.28		6819.33	0.007979	1.88	45.7	45.83	0.33	0.3	0.49
WestTrib	17709.1*	25-yr		410		6817.91	6821.05		6821.16	0.00587	2.68	153.06	71.68	0.32	0.25	0.77
WestTrib	17709.1*	50-yr		670		6817.91	6821.95		6822.09	0.005193	3.05	219.97	77.28	0.32	0.23	0.91
WestTrib	17709.1*	100-yr		890		6817.91	6822.7		6822.86	0.004508	3.18	280.05	82.87	0.3	0.21	0.94
WestTrib	17683.8*	2-yr		26		6817.17	6818.19		6818.21	0.005446	1.24	21	29.67	0.26	0.22	0.24
WestTrib	17683.8*	5-yr		54		6817.17	6818.64		6818.67	0.005341	1.5	35.95	37.45	0.27	0.24	0.32
WestTrib	17683.8*	10-yr		86		6817.17	6818.98		6819.03	0.005583	1.72	49.99	43.95	0.28	0.25	0.39
WestTrib	17683.8*	25-yr		410		6817.17	6820.81		6820.92	0.00498	2.69	152.16	62.25	0.3	0.25	0.75
WestTrib	17683.8*	50-yr		670		6817.17	6821.7		6821.86	0.005034	3.19	210.14	67.07	0.32	0.26	0.97
WestTrib	17683.8*	100-yr		890		6817.17	6822.47		6822.65	0.004721	3.38	263.62	73.45	0.31	0.25	1.04
WestTrib	17658.61	2-yr		26		6816.42	6817.97	6817.31	6817.99	0.004399	1.17	22.23	29.21	0.24		0.21
WestTrib	17658.61	5-yr		54		6816.42	6818.4	6817.6	6818.43	0.005124	1.47	36.76	38.46	0.26		0.3
WestTrib	17658.61	10-yr		86		6816.42	6818.73	6817.83	6818.78	0.005239	1.71	50.29	42.53	0.28		0.38
WestTrib	17658.61	25-yr		410		6816.42	6820.53	6819	6820.67	0.00577	3.02	135.57	51.77	0.33		0.93
WestTrib	17658.61	50-yr		670		6816.42	6821.39	6819.53	6821.6	0.006472	3.69	181.59	55.83	0.36		1.28
WestTrib	17658.61	100-yr		890		6816.42	6822.16	6819.98	6822.4	0.006256	3.93	226.38	62.16	0.36		1.4
WestTrib	17647.61		Bridge													
WestTrib	17638.04	2-yr		26		6816.42	6817.57	6817.42	6817.71	0.042425	2.98	8.71	15.27	0.7	0.62	1.49
WestTrib	17638.04	5-yr		54		6816.42	6817.94	6817.75	6818.14	0.040758	3.52	15.32	20.31	0.72	0.62	1.9
WestTrib	17638.04	10-yr		86		6816.42	6818.24	6818.03	6818.48	0.039585	3.91	21.97	24.35	0.73	0.64	2.2
WestTrib	17638.04	25-yr		410		6816.42	6819.67	6819.39	6820.25	0.037261	6.11	67.13	36.18	0.79	0.68	4.23
WestTrib	17638.04	50-yr		670		6816.42	6820.42	6820	6821.18	0.034661	7	95.68	39.5	0.79	0.68	5.1
WestTrib	17638.04	100-yr		890		6816.42	6820.98	6820.53	6821.86	0.032688	7.52	118.4	41.86	0.79	0.67	5.59
WestTrib	17616.3*	2-yr		26		6816.05	6817.03		6817.1	0.018307	2.08	12.48	20.02	0.46	0.12	0.71
WestTrib	17616.3*	5-yr		54		6816.05	6817.41		6817.51	0.018613	2.53	21.33	25.85	0.49	0.15	0.95
WestTrib	17616.3*	10-yr		86		6816.05	6817.71		6817.84	0.019736	2.91	29.51	30.27	0.52	0.18	1.19
WestTrib	17616.3*	25-yr		410		6816.05	6819.22		6819.56	0.019249	4.71	87.07	42.29	0.58	0.29	2.43
WestTrib	17616.3*	50-yr		670		6816.05	6820.04		6820.5	0.018013	5.43	123.45	45.81	0.58	0.31	2.96
WestTrib	17616.3*	100-yr		890		6816.05	6820.65		6821.18	0.017147	5.86	152	48.28	0.58	0.31	3.27
WestTrib	17594.5*	2-yr		26		6815.68	6816.96		6816.98	0.00214	0.87	29.97	35.78	0.17	0.02	0.11
WestTrib	17594.5*	5-yr		54		6815.68	6817.34		6817.36	0.002954	1.21	44.47	40.79	0.2	0.03	0.2
WestTrib	17594.5*	10-yr		86		6815.68	6817.62		6817.65	0.003671	1.53	56.21	42.84	0.24	0.04	0.3

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17594.5*	25-yr		410		6815.68	6819.1		6819.27	0.007106	3.25	126.02	50.34	0.36	0.12	1.09
WestTrib	17594.5*	50-yr		670		6815.68	6819.95		6820.19	0.00765	3.94	170.04	53.51	0.39	0.14	1.48
WestTrib	17594.5*	100-yr		890		6815.68	6820.57		6820.87	0.007805	4.36	204.04	55.7	0.4	0.15	1.73
WestTrib	17572.8*	2-yr		26		6815.31	6816.96		6816.96	0.000284	0.42	62.41	49.04	0.07	0	0.02
WestTrib	17572.8*	5-yr		54		6815.31	6817.32		6817.33	0.000549	0.67	80.92	51.36	0.09	0.01	0.05
WestTrib	17572.8*	10-yr		86		6815.31	6817.6		6817.61	0.000841	0.9	95.23	52.74	0.12	0.01	0.09
WestTrib	17572.8*	25-yr		410		6815.31	6819.07		6819.15	0.002796	2.31	177.54	58.61	0.23	0.05	0.52
WestTrib	17572.8*	50-yr		670		6815.31	6819.92		6820.05	0.003447	2.93	228.48	61.24	0.27	0.06	0.78
WestTrib	17572.8*	100-yr		890		6815.31	6820.55		6820.72	0.003772	3.33	267.49	63.18	0.28	0.07	0.96
WestTrib	17551.13	2-yr		26		6814.94	6816.95	6815.22	6816.96	0.000072	0.28	94.16	60.32	0.04		0.01
WestTrib	17551.13	5-yr		54		6814.94	6817.32	6815.33	6817.32	0.000174	0.48	112.12	61.62	0.06		0.02
WestTrib	17551.13	10-yr		86		6814.94	6817.59	6815.46	6817.6	0.000304	0.69	125.47	62.41	0.08		0.05
WestTrib	17551.13	25-yr		410		6814.94	6819.03	6816.35	6819.1	0.001552	2.09	196.37	66.54	0.18		0.38
WestTrib	17551.13	50-yr		670		6814.94	6819.87	6816.85	6819.99	0.002204	2.82	237.33	68.75	0.23		0.66
WestTrib	17551.13	100-yr		890		6814.94	6820.48	6817.23	6820.65	0.00261	3.33	267.48	70.38	0.25		0.88
WestTrib	17517.42		Culvert													
WestTrib	17465.45	2-yr		26		6814.83	6816.95	6815.08	6816.95	0.000048	0.31	82.65	42.02	0.04	0	0.01
WestTrib	17465.45	5-yr		54		6814.83	6817.31	6815.25	6817.31	0.000124	0.55	97.92	43.81	0.07	0.01	0.02
WestTrib	17465.45	10-yr	0	86		6814.83	6817.57	6815.39	6817.58	0.000228	0.78	109.8	45.79	0.09	0.01	0.03
WestTrib	17465.45	25-yr	0.22	409.78		6814.83	6818.86	6816.4	6818.95	0.001297	2.41	170.93	49.21	0.23	0.07	0.26
WestTrib	17465.45	50-yr	0.62	669.38		6814.83	6819.54	6817	6819.71	0.001983	3.28	205.29	52.89	0.29	0.11	0.45
WestTrib	17465.45	100-yr	2.3	887.69	0.01	6814.83	6820.02	6817.46	6820.25	0.002461	3.9	232.05	60.19	0.35	0.13	0.56
WestTrib	17443.5*	2-yr		26		6815.17	6816.95		6816.95	0.000188	0.51	51.22	36.14	0.08	0.01	0.02
WestTrib	17443.5*	5-yr	0	54		6815.17	6817.3		6817.31	0.000408	0.84	64.53	38.64	0.11	0.02	0.04
WestTrib	17443.5*	10-yr	0.02	85.98		6815.17	6817.55		6817.57	0.000666	1.16	74.36	39.7	0.15	0.03	0.08
WestTrib	17443.5*	25-yr	0.94	409.06		6815.17	6818.71		6818.88	0.003287	3.35	124.01	49.54	0.37	0.12	0.5
WestTrib	17443.5*	50-yr	6.78	662.59	0.64	6815.17	6819.29		6819.6	0.004597	4.5	156.74	61.87	0.5	0.17	0.71
WestTrib	17443.5*	100-yr	16.92	870.56	2.52	6815.17	6819.69		6820.12	0.005479	5.29	183.57	71.85	0.58	0.2	0.85
WestTrib	17421.6*	2-yr	0.01	25.99		6815.5	6816.93		6816.94	0.00085	0.84	30.89	32.34	0.15	0.06	0.05
WestTrib	17421.6*	5-yr	0.08	53.92		6815.5	6817.27		6817.29	0.001441	1.29	42.2	35.07	0.21	0.08	0.11
WestTrib	17421.6*	10-yr	0.23	85.77		6815.5	6817.5		6817.54	0.00215	1.72	50.85	40.37	0.27	0.09	0.17
WestTrib	17421.6*	25-yr	17.7	388.26	4.03	6815.5	6818.45		6818.76	0.007839	4.61	102.27	65.12	0.63	0.19	0.76
WestTrib	17421.6*	50-yr	46.94	609.28	13.78	6815.5	6818.92		6819.44	0.010413	6.01	134.95	72.4	0.74	0.26	1.2
WestTrib	17421.6*	100-yr	76.43	788.41	25.16	6815.5	6819.24		6819.92	0.012225	6.99	158.58	77.18	0.81	0.32	1.55
WestTrib	17399.67	2-yr	4.12	41.69	1.19	6815.83	6816.84		6816.89	0.005753	1.89	30.1	54.3	0.42	0.9	0.2

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17399.67	5-yr	11.59	75.78	4.63	6815.83	6817.14		6817.22	0.006344	2.47	47.19	59.94	0.45	1.02	0.31
WestTrib	17399.67	10-yr	18.66	102.74	8.6	6815.83	6817.35		6817.45	0.006247	2.77	60.77	63.94	0.46	1.14	0.37
WestTrib	17399.67	25-yr	76.45	292.14	51.41	6815.83	6818.33		6818.57	0.007664	4.48	134.27	88.21	0.55	1.64	0.73
WestTrib	17399.67	50-yr	129.22	448.59	112.19	6815.83	6818.81		6819.17	0.009508	5.67	177.96	92.97	0.61	1.87	1.13
WestTrib	17399.67	100-yr	157.36	582.8	169.84	6815.83	6819.12		6819.6	0.011229	6.62	208.82	103.31	0.69	2.05	1.41
WestTrib	17281.4	2-yr		47		6815.35	6815.95		6815.99	0.01056	1.63	28.9	74.34	0.46	6.05	0.26
WestTrib	17281.4	5-yr		92		6815.35	6816.13		6816.2	0.012239	2.13	43.22	82.95	0.52	6	0.4
WestTrib	17281.4	10-yr	0.05	129.95		6815.35	6816.2		6816.31	0.016761	2.65	49.3	96.71	0.65	5.92	0.53
WestTrib	17281.4	25-yr	14.56	405.44		6815.35	6816.6	6816.58	6816.93	0.031533	4.67	98.05	150.28	1	5.71	1.28
WestTrib	17281.4	50-yr	52.79	636.19	1.02	6815.35	6816.89	6816.89	6817.31	0.030982	5.39	147.01	189.57	1.04	5.6	1.5
WestTrib	17281.4	100-yr	90.5	813.13	6.36	6815.35	6817.08	6817.08	6817.56	0.030289	5.82	185.75	223.75	1.07	5.7	1.57
WestTrib	16985.18	2-yr		46.62	0.38	6809.23	6809.79	6809.79	6809.95	0.054609	3.2	15.03	52.03	1.04	7.56	0.98
WestTrib	16985.18	5-yr	0.01	89.12	2.86	6809.23	6809.99	6809.97	6810.2	0.039456	3.73	26.5	63.94	1.01	7.84	1.02
WestTrib	16985.18	10-yr	0.34	121.63	8.03	6809.23	6810.19	6810.1	6810.39	0.024125	3.65	40.53	76.51	0.86	7.95	0.8
WestTrib	16985.18	25-yr	12.29	312.8	94.91	6809.23	6810.98	6810.79	6811.21	0.012873	4.41	157.62	272.67	0.89	8.31	0.46
WestTrib	16985.18	50-yr	27.73	430.82	231.45	6809.23	6811.31	6811.15	6811.57	0.012542	4.97	270.24	375.61	0.84	8.36	0.56
WestTrib	16985.18	100-yr	41.68	508.31	360.01	6809.23	6811.48	6811.4	6811.75	0.013065	5.37	333.59	387.34	0.79	8.35	0.7
WestTrib	16577.83	2-yr	0	27.09	19.9	6800.68	6802.16		6802.19	0.009175	1.72	41.27	123.53	0.43	5.61	0.19
WestTrib	16577.83	5-yr	0.36	47.73	43.9	6800.68	6802.31	6802.12	6802.37	0.01125	2.28	63.02	158.37	0.5	5.45	0.28
WestTrib	16577.83	10-yr	0.83	65.25	63.92	6800.68	6802.37	6802.2	6802.45	0.015965	2.86	72.22	174.95	0.61	5.35	0.41
WestTrib	16577.83	25-yr	9.42	179.41	231.17	6800.68	6802.66	6802.61	6802.91	0.037088	5.5	132.91	243.91	0.96	5.28	1.26
WestTrib	16577.83	50-yr	24.8	265.06	400.14	6800.68	6802.89	6802.87	6803.21	0.039337	6.54	196.18	314.36	1.03	5.35	1.53
WestTrib	16577.83	100-yr	41.03	321.5	547.47	6800.68	6803.06	6803.05	6803.4	0.036632	6.92	254.42	354.44	0.98	5.39	1.64
WestTrib	16177.83	2-yr	0.77	21.19	25.04	6795.39	6796.51		6796.6	0.023961	2.61	20.18	41.96	0.61	5.82	0.71
WestTrib	16177.83	5-yr	6.23	48.87	36.9	6795.39	6796.86		6796.92	0.01687	1.67	52.48	154.67	0.55	5.9	0.36
WestTrib	16177.83	10-yr	10.59	87.94	31.47	6795.39	6797.06	6796.79	6797.09	0.011312	1.57	95.81	261.13	0.41	5.96	0.26
WestTrib	16177.83	25-yr	28.8	305.75	85.46	6795.39	6797.58	6797.13	6797.63	0.006586	1.92	285.2	495.24	0.4	5.9	0.24
WestTrib	16177.83	50-yr	45.56	478.42	166.02	6795.39	6797.81	6797.33	6797.87	0.006526	2.29	397.05	513.5	0.4	5.83	0.31
WestTrib	16177.83	100-yr	62.3	615.52	232.18	6795.39	6797.94	6797.46	6798.02	0.006795	2.56	469.04	521.17	0.41	5.75	0.38
WestTrib	15777.83	2-yr		26.7	20.3	6789.78	6790.74		6790.78	0.009707	1.67	30.89	59.99	0.38	4.05	0.31
WestTrib	15777.83	5-yr		56.09	35.91	6789.78	6790.96		6791.03	0.012983	2.22	45.59	73.83	0.46	4.04	0.5
WestTrib	15777.83	10-yr		79.62	50.38	6789.78	6791.03		6791.13	0.020439	2.79	50.54	80.6	0.58	3.95	0.8
WestTrib	15777.83	25-yr	0.08	273.54	146.38	6789.78	6791.45	6791.45	6791.72	0.05746	4.25	100.29	182.04	1	2.32	1.97
WestTrib	15777.83	50-yr	1.52	499.13	189.35	6789.78	6791.66	6791.66	6792.04	0.055942	5.24	141.94	207.18	1.06	2.13	2.39
WestTrib	15777.83	100-yr	4.47	684.01	221.52	6789.78	6791.83	6791.83	6792.26	0.047364	5.64	179.94	235.17	1.06	2.22	2.26
WestTrib	15497.53	2-yr		32.49	14.51	6785.8	6786.67		6786.73	0.02368	2.06	23.58	66.81	0.59	0.47	0.52

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	15497.53	5-yr		70.95	21.05	6785.8	6786.91		6786.98	0.016081	2.17	44.59	92.72	0.53	0.29	0.48
WestTrib	15497.53	10-yr		105.07	24.93	6785.8	6787.12		6787.19	0.010248	2.15	64.83	101.59	0.45	0.23	0.41
WestTrib	15497.53	25-yr		345.11	74.89	6785.8	6788.27		6788.33	0.003054	2.12	226.03	161.57	0.3	0.12	0.27
WestTrib	15497.53	50-yr	5.08	555.71	129.21	6785.8	6788.83		6788.91	0.002714	2.48	328.84	205.54	0.32	0.13	0.27
WestTrib	15497.53	100-yr	15.98	722.17	171.85	6785.8	6789.12		6789.22	0.002949	2.82	390.2	220.97	0.35	0.15	0.32
WestTrib	15436.09	2-yr		34.96	12.04	6784.87	6786.24		6786.26	0.003566	1.13	44.03	77.7	0.25	0.2	0.13
WestTrib	15436.09	5-yr	0.3	73.54	18.16	6784.87	6786.67		6786.69	0.002101	1.27	81.39	95.67	0.23	0.11	0.11
WestTrib	15436.09	10-yr	1.46	103.91	24.63	6784.87	6786.93		6786.96	0.001775	1.39	107.64	101.5	0.22	0.08	0.12
WestTrib	15436.09	25-yr	63.93	289.62	66.45	6784.87	6788.17		6788.21	0.001244	1.88	322.86	214.7	0.23	0.03	0.12
WestTrib	15436.09	50-yr	147.61	440.45	101.94	6784.87	6788.73		6788.79	0.001439	2.32	448.89	238.73	0.25	0.03	0.17
WestTrib	15436.09	100-yr	215.57	563.25	131.18	6784.87	6789		6789.08	0.001761	2.72	515.15	253.09	0.28	0.04	0.22
WestTrib	15417.5*	2-yr		47		6784.45	6785.68	6785.67	6786.06	0.04355	4.98	9.45	12.26	1	0.72	1.95
WestTrib	15417.5*	5-yr		89.18	2.82	6784.45	6786.41	6786.23	6786.58	0.02261	3.33	29.11	48.63	0.75	0.59	0.83
WestTrib	15417.5*	10-yr	0.11	122.62	7.26	6784.45	6786.76	6786.43	6786.88	0.012343	2.8	49.99	74.86	0.59	0.44	0.51
WestTrib	15417.5*	25-yr	88.81	293.56	37.63	6784.45	6788.12		6788.18	0.002388	2.3	271.72	219.28	0.31	0.06	0.18
WestTrib	15417.5*	50-yr	193.57	432.85	63.58	6784.45	6788.68		6788.75	0.00231	2.66	405.63	254.49	0.31	0.05	0.23
WestTrib	15417.5*	100-yr	277.8	547.75	84.45	6784.45	6788.94		6789.04	0.002683	3.06	474.39	271.11	0.33	0.06	0.29
WestTrib	15398.9*	2-yr		47		6784.02	6785	6784.92	6785.34	0.033833	4.69	10.02	11.57	0.89	0.68	1.68
WestTrib	15398.9*	5-yr		92		6784.02	6785.4	6785.4	6785.99	0.039549	6.16	14.93	12.56	1	0.76	2.63
WestTrib	15398.9*	10-yr		130		6784.02	6785.72	6785.72	6786.45	0.038918	6.83	19.04	13.33	1.01	0.74	3.05
WestTrib	15398.9*	25-yr	111.16	300.88	7.96	6784.02	6788.03		6788.12	0.004347	2.78	226.71	233.99	0.43	0.09	0.26
WestTrib	15398.9*	50-yr	238.99	426.75	24.26	6784.02	6788.61		6788.7	0.003374	2.97	373.79	272.13	0.37	0.07	0.29
WestTrib	15398.9*	100-yr	340.14	533.26	36.6	6784.02	6788.86		6788.98	0.003724	3.34	446.1	290.79	0.38	0.08	0.35
WestTrib	15380.4*	2-yr		47		6783.6	6784.35	6784.31	6784.66	0.038319	4.48	10.49	14.61	0.93	0.55	1.62
WestTrib	15380.4*	5-yr		92		6783.6	6784.71	6784.71	6785.23	0.040162	5.8	15.87	15.21	1	0.48	2.41
WestTrib	15380.4*	10-yr		130		6783.6	6784.99	6784.99	6785.63	0.038698	6.46	20.12	15.65	1	0.45	2.81
WestTrib	15380.4*	25-yr	101.15	318.85		6783.6	6787.91		6788.03	0.00484	3.15	204.41	221.37	0.51	0.08	0.27
WestTrib	15380.4*	50-yr	262.94	425.87	1.2	6783.6	6788.52		6788.63	0.004004	3.18	357.42	284.84	0.41	0.07	0.31
WestTrib	15380.4*	100-yr	388.09	517.94	3.98	6783.6	6788.78		6788.9	0.004411	3.47	433.83	310.12	0.41	0.07	0.38
WestTrib	15361.8*	2-yr		47		6783.17	6783.93		6784.11	0.020999	3.4	13.81	18.62	0.7	0.21	0.92
WestTrib	15361.8*	5-yr		92		6783.17	6784.51		6784.72	0.012565	3.72	24.76	19.22	0.58	0.18	0.92
WestTrib	15361.8*	10-yr		130		6783.17	6784.94		6785.18	0.010116	3.92	33.14	19.66	0.53	0.17	0.95
WestTrib	15361.8*	25-yr	87.21	332.79		6783.17	6787.83		6787.95	0.004017	3.05	214.36	235.95	0.51	0.09	0.22
WestTrib	15361.8*	50-yr	252.95	437.05		6783.17	6788.46		6788.56	0.003238	3.12	384.56	302.86	0.4	0.05	0.25
WestTrib	15361.8*	100-yr	380.9	529.1		6783.17	6788.71		6788.82	0.003642	3.46	461.26	318.34	0.4	0.06	0.32
WestTrib	15343.33	2-yr		47		6782.75	6783.84	6783.26	6783.9	0.00405	1.9	24.77	23	0.32		0.25

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	15343.33	5-yr		92		6782.75	6784.46	6783.55	6784.54	0.003678	2.36	38.96	23.4	0.32		0.34
WestTrib	15343.33	10-yr		130		6782.75	6784.9	6783.77	6785.01	0.003482	2.63	49.44	23.69	0.32		0.4
WestTrib	15343.33	25-yr		420		6782.75	6787.66	6784.96	6787.85	0.003389	3.56	117.98	239.58	0.33		0.62
WestTrib	15343.33	50-yr	232.64	457.36		6782.75	6788.4	6785.82	6788.51	0.002144	3.21	422.22	348.67	0.41		0.17
WestTrib	15343.33	100-yr	360.92	549.08		6782.75	6788.63	6786.43	6788.76	0.002598	3.66	499.38	361.4	0.42		0.23
WestTrib	15318.93		Culvert													
WestTrib	15286.98	2-yr		47		6782.59	6783.27	6783.08	6783.39	0.01576	2.77	16.99	26.26	0.61	0.27	0.63
WestTrib	15286.98	5-yr	0.6	91.4		6782.59	6783.61	6783.36	6783.8	0.015118	3.5	26.95	39.74	0.67	0.27	0.78
WestTrib	15286.98	10-yr	2.3	127.7		6782.59	6783.83	6783.56	6784.07	0.01519	3.97	34.02	42.84	0.68	0.27	0.97
WestTrib	15286.98	25-yr	21.09	398.91		6782.59	6784.79	6784.58	6785.45	0.02056	6.62	66.72	58.82	0.83	0.42	2.39
WestTrib	15286.98	50-yr	39.69	650.31		6782.59	6785.25	6785.25	6786.39	0.027596	8.75	83	71.08	0.99	0.63	3.94
WestTrib	15286.98	100-yr	56.83	853.17		6782.59	6785.72	6785.72	6787.09	0.026201	9.6	99.78	78.81	0.99	0.68	4.5
WestTrib	15268.7*	2-yr		47		6782.18	6783		6783.12	0.014035	2.8	16.78	23.44	0.58	0.25	0.62
WestTrib	15268.7*	5-yr	3.03	88.97		6782.18	6783.35		6783.54	0.013873	3.52	28.78	38.64	0.71	0.26	0.64
WestTrib	15268.7*	10-yr	8.27	121.73		6782.18	6783.57		6783.8	0.013933	3.94	37.78	42.55	0.71	0.26	0.77
WestTrib	15268.7*	25-yr	71.31	347.93	0.77	6782.18	6784.54	6784.29	6785.03	0.016615	6.06	89.38	67.47	0.86	0.31	1.36
WestTrib	15268.7*	50-yr	144.8	537.27	7.93	6782.18	6785.07	6784.91	6785.76	0.018292	7.42	128.01	81.42	0.94	0.38	1.78
WestTrib	15268.7*	100-yr	211.2	678.33	20.46	6782.18	6785.38	6785.38	6786.23	0.019754	8.34	159.85	110.91	1.08	0.38	1.77
WestTrib	15250.4*	2-yr	0.26	46.74		6781.77	6782.74		6782.87	0.013399	2.86	17.04	31.29	0.68	0.26	0.45
WestTrib	15250.4*	5-yr	5.45	86.55		6781.77	6783.09		6783.28	0.014111	3.6	29.3	39.42	0.72	0.29	0.65
WestTrib	15250.4*	10-yr	12.13	117.87		6781.77	6783.3		6783.53	0.014823	4.06	38.14	44.25	0.74	0.31	0.79
WestTrib	15250.4*	25-yr	86.02	328.64	5.34	6781.77	6784.22	6784.04	6784.71	0.017373	6.26	93.55	76.19	0.9	0.39	1.33
WestTrib	15250.4*	50-yr	168.35	503.18	18.47	6781.77	6784.61	6784.61	6785.38	0.022836	8.06	128.38	103.82	1.12	0.44	1.76
WestTrib	15250.4*	100-yr	229.37	622.95	57.67	6781.77	6785.03	6785.03	6785.84	0.020398	8.48	180.01	140.22	1.12	0.42	1.63
WestTrib	15232.1*	2-yr	1.25	45.75		6781.37	6782.47		6782.61	0.014925	3	17.18	32.59	0.72	0.25	0.49
WestTrib	15232.1*	5-yr	8.22	83.78		6781.37	6782.78		6782.99	0.017495	3.84	28.79	43.35	0.8	0.31	0.72
WestTrib	15232.1*	10-yr	15.97	114.01	0.02	6781.37	6782.95		6783.22	0.019177	4.42	36.91	50.75	0.86	0.32	0.87
WestTrib	15232.1*	25-yr	100.17	309.12	10.71	6781.37	6783.71	6783.71	6784.32	0.025422	7.17	89.81	95.68	1.14	0.45	1.49
WestTrib	15232.1*	50-yr	201.99	429.49	58.53	6781.37	6784.35	6784.35	6784.91	0.018402	7.42	171.17	157.89	1.02	0.37	1.24
WestTrib	15232.1*	100-yr	299.27	511.88	98.85	6781.37	6784.61	6784.61	6785.22	0.018744	8	214.73	171.92	0.99	0.38	1.46
WestTrib	15213.92	2-yr	3.69	43.29	0.03	6780.96	6782.25		6782.36	0.012254	2.76	20.61	43.18	0.68	1.45	0.36
WestTrib	15213.92	5-yr	13.12	78.32	0.56	6780.96	6782.48	6782.34	6782.68	0.016672	3.83	33.11	63.13	0.87	1.42	0.54
WestTrib	15213.92	10-yr	26.65	101.69	1.66	6780.96	6782.69	6782.54	6782.9	0.014864	4.11	48.06	82.88	0.85	1.46	0.54
WestTrib	15213.92	25-yr	160.04	226.04	33.91	6780.96	6783.41		6783.72	0.0155	5.73	134.93	141.38	0.8	1.35	0.92
WestTrib	15213.92	50-yr	296.8	311.67	81.52	6780.96	6783.84		6784.19	0.015137	6.47	200.04	161.88	0.75	1.31	1.17
WestTrib	15213.92	100-yr	404.14	378.74	127.12	6780.96	6784.09		6784.5	0.015934	7.1	242.56	174.35	0.76	1.32	1.38

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	15142.8	2-yr		47		6779.75	6780.71	6780.68	6780.91	0.0395	3.54	13.29	28.6	0.91	1.13	1.14
WestTrib	15142.8	5-yr	3.46	87.89	0.65	6779.75	6781.04	6780.95	6781.26	0.024116	3.85	27.38	56.08	0.95	1.2	0.73
WestTrib	15142.8	10-yr	7.72	120.57	1.71	6779.75	6781.14	6781.13	6781.45	0.029504	4.64	33.64	62.3	1.08	1.2	0.99
WestTrib	15142.8	25-yr	82.12	306.67	31.21	6779.75	6781.91	6781.91	6782.37	0.023071	6.26	104.5	120.54	1.03	1.06	1.25
WestTrib	15142.8	50-yr	179.17	441.35	69.48	6779.75	6782.33	6782.33	6782.88	0.022315	7.17	164	160.83	1.03	1.06	1.42
WestTrib	15142.8	100-yr	262.6	529.87	117.53	6779.75	6782.6	6782.6	6783.18	0.021308	7.61	210.23	179.01	0.99	1.07	1.56
WestTrib	15098.6*	2-yr	0.37	46.35	0.28	6778.56	6779.66	6779.5	6779.78	0.016921	2.81	18.13	50.11	0.82	1.22	0.38
WestTrib	15098.6*	5-yr	3.49	86.6	1.91	6778.56	6779.8	6779.8	6780.06	0.030084	4.28	26.25	67.66	1.18	1.23	0.73
WestTrib	15098.6*	10-yr	11.39	111.94	6.67	6778.56	6779.98	6779.98	6780.25	0.024385	4.45	40.96	103.83	1.09	1.06	0.69
WestTrib	15098.6*	25-yr	122.22	241.8	55.98	6778.56	6780.58	6780.58	6780.91	0.021955	5.87	140.79	218.11	1.01	1.04	0.88
WestTrib	15098.6*	50-yr	242.52	324.41	123.08	6778.56	6780.9	6780.9	6781.25	0.021075	6.52	217.85	260.84	0.92	1.11	1.1
WestTrib	15098.6*	100-yr	340	390.88	179.12	6778.56	6781.06	6781.06	6781.47	0.023272	7.24	260.92	277.55	0.93	1.19	1.37
WestTrib	15054.4*	2-yr		46.86	0.14	6777.38	6778.3	6778.3	6778.55	0.047791	4.07	11.85	33.63	1.21	0.14	1.05
WestTrib	15054.4*	5-yr	4.37	74.95	12.68	6777.38	6778.61	6778.61	6778.81	0.024358	3.99	36.29	121.97	1.17	0.12	0.45
WestTrib	15054.4*	10-yr	13.19	92.75	24.06	6777.38	6778.75	6778.75	6778.95	0.021985	4.21	56.64	172.62	1.11	0.13	0.45
WestTrib	15054.4*	25-yr	114.69	183.09	122.23	6777.38	6779.19	6779.19	6779.44	0.02335	5.63	167.31	302.95	0.94	0.2	0.8
WestTrib	15054.4*	50-yr	222.38	254.85	212.77	6777.38	6779.38	6779.38	6779.7	0.02989	6.92	225.81	336.31	0.99	0.28	1.25
WestTrib	15054.4*	100-yr	321.03	298.65	290.32	6777.38	6779.54	6779.54	6779.88	0.029696	7.36	282.07	367.8	0.95	0.31	1.42
WestTrib	15010.3*	2-yr	13.52	9.7	23.78	6776.19	6778.18		6778.18	0.000055	0.3	356.72	467.73	0.03	0	0
WestTrib	15010.3*	5-yr	28.8	17.33	45.87	6776.19	6778.31		6778.31	0.000136	0.5	419.16	497.85	0.05	0	0.01
WestTrib	15010.3*	10-yr	42.38	23.25	64.37	6776.19	6778.4		6778.4	0.000207	0.63	463.27	513.48	0.07	0	0.01
WestTrib	15010.3*	25-yr	166.76	59.09	194.15	6776.19	6778.83		6778.84	0.000654	1.3	691.9	537.47	0.11	0.01	0.05
WestTrib	15010.3*	50-yr	292.18	87.55	310.27	6776.19	6779.1		6779.12	0.000984	1.72	838.87	551.01	0.14	0.02	0.09
WestTrib	15010.3*	100-yr	400.69	110.03	399.27	6776.19	6779.28		6779.3	0.001235	2.02	939.17	566.73	0.15	0.03	0.13
WestTrib	14966.13	2-yr	11.41	4.57	31.02	6775	6778.18	6776	6778.18	0.000003	0.1	927.58	717.08	0.01		0
WestTrib	14966.13	5-yr	23.05	8.82	60.13	6775	6778.31	6776.42	6778.31	0.000008	0.18	986.93	732.15	0.01		0
WestTrib	14966.13	10-yr	33.12	12.34	84.54	6775	6778.4	6776.72	6778.4	0.000015	0.24	1027.09	741.56	0.02		0
WestTrib	14966.13	25-yr	112.66	37.53	269.8	6775	6778.83	6778.01	6778.83	0.000089	0.64	1232.17	755.29	0.04		0.01
WestTrib	14966.13	50-yr	188.2	59.45	442.34	6775	6779.09	6778.01	6779.1	0.000175	0.94	1359.89	757.85	0.06		0.03
WestTrib	14966.13	100-yr	250.24	76.67	583.09	6775	6779.27	6778.01	6779.27	0.00025	1.16	1444.84	758.52	0.07		0.05
WestTrib	14944.59		Mult Open													
WestTrib	14918.08	2-yr		47		6774.58	6775.9	6775.68	6776.19	0.017813	4.32	10.87	76.02	0.71	0.95	1.27
WestTrib	14918.08	5-yr		92		6774.58	6776.19	6776.19	6776.9	0.031893	6.73	13.66	124.76	0.99		2.85
WestTrib	14918.08	10-yr		130		6774.58	6776.56	6776.56	6777.45	0.029813	7.58	17.15	252.07	0.99	1.37	3.34
WestTrib	14918.08	25-yr	79.36	154.33	186.3	6774.58	6778.01	6778.01	6778.02	0.000574	1.41	575.22	608.17	0.14	0.13	0.06

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	14918.08	50-yr	130.38	253.55	306.07	6774.58	6778.01	6778.01	6778.05	0.00155	2.32	575.22	608.17	0.22	0.23	0.15
WestTrib	14918.08	100-yr	171.96	334.39	403.65	6774.58	6778.01	6778.01	6778.08	0.002696	3.06	575.22	608.17	0.29	0.31	0.27
WestTrib	14850.0*	2-yr	0.13	45.96	0.91	6773.96	6775.17		6775.24	0.009086	2.07	24.45	53.29	0.53	0.6	0.26
WestTrib	14850.0*	5-yr	2.47	84.38	5.15	6773.96	6775.46		6775.56	0.008666	2.6	43.21	77.38	0.59	0.58	0.3
WestTrib	14850.0*	10-yr	6.26	113.6	10.14	6773.96	6775.64		6775.76	0.008505	2.91	59.47	100.91	0.63	0.57	0.31
WestTrib	14850.0*	25-yr	65.82	256.34	97.84	6773.96	6776.45		6776.59	0.006878	3.78	239.79	403.16	0.69	0.51	0.26
WestTrib	14850.0*	50-yr	161.91	336.65	191.45	6773.96	6776.74		6776.9	0.007411	4.32	375.57	513.7	0.65	0.5	0.34
WestTrib	14850.0*	100-yr	260.84	381.92	267.23	6773.96	6776.93		6777.08	0.00722	4.5	477.16	542.19	0.58	0.48	0.4
WestTrib	14781.9*	2-yr	0.28	46.12	0.6	6773.34	6774.57		6774.64	0.008564	2.12	23.79	48.88	0.53	0.61	0.26
WestTrib	14781.9*	5-yr	3.6	84.57	3.83	6773.34	6774.87		6774.97	0.008433	2.69	41.96	71.81	0.6	0.59	0.31
WestTrib	14781.9*	10-yr	8.75	113.26	7.99	6773.34	6775.06		6775.19	0.008267	3	57.54	88.55	0.62	0.57	0.33
WestTrib	14781.9*	25-yr	91.41	273.58	55.01	6773.34	6775.9		6776.08	0.008128	4.25	218.31	402.03	0.83	0.56	0.28
WestTrib	14781.9*	50-yr	210.57	335.39	144.04	6773.34	6776.23		6776.39	0.0073	4.47	366.05	475.5	0.65	0.48	0.35
WestTrib	14781.9*	100-yr	317.34	377.85	214.81	6773.34	6776.45		6776.6	0.00687	4.6	473.85	504.7	0.57	0.47	0.4
WestTrib	14713.9*	2-yr	0.45	46.16	0.39	6772.72	6773.95		6774.03	0.009442	2.29	22.1	44.5	0.57	0.5	0.29
WestTrib	14713.9*	5-yr	5.04	83.95	3.01	6772.72	6774.27		6774.39	0.008752	2.84	40.57	68.88	0.62	0.49	0.32
WestTrib	14713.9*	10-yr	11.82	111.67	6.51	6772.72	6774.48		6774.61	0.00853	3.16	56.29	86.01	0.64	0.5	0.35
WestTrib	14713.9*	25-yr	110.45	263.38	46.17	6772.72	6775.33		6775.53	0.008239	4.4	198.89	307.09	0.78	0.49	0.33
WestTrib	14713.9*	50-yr	258.49	326.26	105.25	6772.72	6775.74		6775.91	0.00696	4.56	358.62	438.15	0.64	0.45	0.36
WestTrib	14713.9*	100-yr	368.3	375.45	166.26	6772.72	6775.97		6776.13	0.006924	4.82	461.4	492.56	0.6	0.45	0.4
WestTrib	14645.8*	2-yr	1.67	44.7	0.63	6772.1	6773.46		6773.52	0.005835	2.06	26.68	51.34	0.49	0.73	0.19
WestTrib	14645.8*	5-yr	9.87	78.67	3.46	6772.1	6773.81		6773.9	0.00578	2.57	49.64	79.64	0.53	0.73	0.22
WestTrib	14645.8*	10-yr	19.2	104.12	6.68	6772.1	6774		6774.11	0.006216	2.94	66.75	99.12	0.57	0.75	0.26
WestTrib	14645.8*	25-yr	149.29	230.16	40.56	6772.1	6774.89		6775.04	0.005941	3.98	222.31	274.04	0.6	0.71	0.3
WestTrib	14645.8*	50-yr	303.25	306.94	79.8	6772.1	6775.3		6775.46	0.00612	4.51	366.94	445.8	0.62	0.7	0.31
WestTrib	14645.8*	100-yr	401.34	350.43	158.23	6772.1	6775.53		6775.69	0.006093	4.75	472.29	480.61	0.56	0.68	0.37
WestTrib	14577.83	2-yr	0.48	48.41	0.11	6771.48	6772.61	6772.51	6772.79	0.024069	3.44	15.08	33.17	0.89	5.57	0.68
WestTrib	14577.83	5-yr	6.63	89	1.38	6771.48	6772.91	6772.85	6773.18	0.023029	4.34	28.11	54.81	1.02	5.71	0.74
WestTrib	14577.83	10-yr	13.95	113.07	2.98	6771.48	6773.06	6773.02	6773.37	0.022672	4.75	37.29	66.49	1.05	5.77	0.79
WestTrib	14577.83	25-yr	126.87	272.28	30.85	6771.48	6773.9	6773.84	6774.33	0.019605	6.46	123.55	148.47	1.02	5.92	1.02
WestTrib	14577.83	50-yr	269.06	362.68	58.27	6771.48	6774.31	6774.31	6774.76	0.018346	7.11	199.86	221.79	1	5.79	1.03
WestTrib	14577.83	100-yr	395.36	417.58	97.06	6771.48	6774.57	6774.57	6775.01	0.017158	7.37	269.92	312.75	1	5.66	0.92
WestTrib	14177.83	2-yr	8.5	40.49	0.01	6766.41	6767.18		6767.22	0.008951	1.75	33.58	81.4	0.45	3.15	0.23
WestTrib	14177.83	5-yr	20.09	76.49	0.42	6766.41	6767.4		6767.46	0.009541	2.31	52.13	90.94	0.49	3.17	0.34
WestTrib	14177.83	10-yr	28.52	100.37	1.12	6766.41	6767.52	6767.23	6767.6	0.009783	2.59	63.28	96.22	0.51	3.18	0.4
WestTrib	14177.83	25-yr	112.23	300.79	16.97	6766.41	6768.22		6768.43	0.011332	4.2	142.51	134.33	0.63	3.26	0.75

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	14177.83	50-yr	189.68	454.81	45.51	6766.41	6768.64		6768.92	0.011532	4.98	208.44	179.79	0.69	3.3	0.83
WestTrib	14177.83	100-yr	239.39	578.52	92.09	6766.41	6768.93	6768.44	6769.25	0.011753	5.51	263.96	206.94	0.72	3.34	0.94
WestTrib	13823.36	2-yr	6.62	37.59	4.79	6763.06	6764.04	6763.86	6764.07	0.008793	1.65	38.83	111.99	0.44	3.29	0.19
WestTrib	13823.36	5-yr	17.28	69.15	10.57	6763.06	6764.25	6763.99	6764.3	0.008396	2.08	64.61	132.98	0.46	3.12	0.25
WestTrib	13823.36	10-yr	25.5	89.54	14.96	6763.06	6764.36	6764.06	6764.42	0.008237	2.29	80.77	145.39	0.47	3.02	0.29
WestTrib	13823.36	25-yr	119.96	246.95	63.09	6763.06	6765.06		6765.17	0.007483	3.34	203.38	206.51	0.48	2.75	0.46
WestTrib	13823.36	50-yr	205.92	371.07	113.01	6763.06	6765.47		6765.62	0.007495	3.93	296.98	259.18	0.51	2.66	0.54
WestTrib	13823.36	100-yr	287.09	465.28	157.64	6763.06	6765.74		6765.91	0.007532	4.31	373.77	301.86	0.52	2.57	0.58
WestTrib	13632.58	2-yr		49		6759.99	6760.54	6760.54	6760.78	0.046863	3.92	12.5	26.21	1	1.42	1.39
WestTrib	13632.58	5-yr		97		6759.99	6760.82	6760.82	6761.18	0.043384	4.76	20.38	30.08	1.02	1.5	1.83
WestTrib	13632.58	10-yr		130		6759.99	6760.99	6760.99	6761.39	0.040685	5.11	25.45	32.18	1.01	1.46	2
WestTrib	13632.58	25-yr	0.02	429.99		6759.99	6761.91	6761.91	6762.43	0.036811	5.74	74.88	74.73	1.01	1.93	2.29
WestTrib	13632.58	50-yr	2.07	687.62	0.31	6759.99	6762.32	6762.32	6762.96	0.032472	6.43	109.13	95.16	1.06	2.19	2.32
WestTrib	13632.58	100-yr	6.78	897.73	5.49	6759.99	6762.61	6762.61	6763.34	0.028656	6.89	139.31	114.38	1.09	2.24	2.17
WestTrib	13268.37	2-yr	106.65	8.19	5.16	6755.96	6756.89	6756.25	6756.9	0.002213	0.97	156.61	219.55	0.17	2.2	0.1
WestTrib	13268.37	5-yr	191.73	18.72	19.55	6755.96	6757.26	6756.41	6757.27	0.002287	1.36	241.67	252.26	0.18	2.29	0.14
WestTrib	13268.37	10-yr	293.44	31.99	44.57	6755.96	6757.6	6756.57	6757.62	0.002383	1.71	333.28	288.37	0.2	2.36	0.17
WestTrib	13268.37	25-yr	529.54	63.55	136.91	6755.96	6758.2		6758.24	0.002603	2.31	529.73	355.07	0.22	2.49	0.24
WestTrib	13268.37	50-yr	702.92	86.98	210.09	6755.96	6758.55		6758.59	0.002791	2.67	667.7	437.87	0.24	2.58	0.27
WestTrib	13268.37	100-yr	859.88	108.37	331.75	6755.96	6758.83		6758.89	0.002901	2.95	794.4	449.29	0.24	2.65	0.32
WestTrib	12937.08	2-yr		18.19	101.81	6753.53	6754.53	6754.53	6754.71	0.091027	5.46	38.1	98.74	0.97	2.08	2.19
WestTrib	12937.08	5-yr		30.14	199.86	6753.53	6754.73	6754.73	6754.99	0.091947	6.22	60.23	116.2	0.99	2.06	2.97
WestTrib	12937.08	10-yr	1.2	47.03	321.76	6753.53	6754.94	6754.94	6755.26	0.087568	7.16	86.61	144.82	1.04	1.89	3.26
WestTrib	12937.08	25-yr	18.88	86.6	624.52	6753.53	6755.33	6755.33	6755.75	0.075262	8.74	155.1	206.19	1.06	1.32	3.53
WestTrib	12937.08	50-yr	48.47	113.32	838.22	6753.53	6755.59	6755.59	6756.01	0.065663	9.34	216.14	254.04	1	1.12	3.48
WestTrib	12937.08	100-yr	83.25	135.48	1081.3	6753.53	6755.77	6755.77	6756.24	0.062942	9.91	263.32	267.85	0.98	1	3.86
WestTrib	12902.31	2-yr		120		6748.61	6749.93	6749.93	6750.27	0.041917	4.67	25.67	38.01	1	3.15	1.76
WestTrib	12902.31	5-yr		230		6748.61	6750.32	6750.32	6750.75	0.040672	5.24	43.9	53.58	1.02	3.47	2.08
WestTrib	12902.31	10-yr		370		6748.61	6750.66	6750.66	6751.19	0.036352	5.87	63.07	59.68	1.01	3.68	2.39
WestTrib	12902.31	25-yr		730		6748.61	6751.5	6751.3	6752.08	0.022384	6.08	120.14	74.94	0.85	3.67	2.23
WestTrib	12902.31	50-yr		1000		6748.61	6752.02		6752.61	0.018514	6.18	161.9	85.43	0.79	3.7	2.18
WestTrib	12902.31	100-yr		1299.95	0.05	6748.61	6752.52		6753.13	0.015949	6.3	206.63	96.74	0.76	3.8	2.12
WestTrib	12577.83	2-yr		120		6743.46	6746.28		6746.36	0.004068	2.21	54.36	42.83	0.35	3.84	0.32
WestTrib	12577.83	5-yr	0.23	229.73	0.04	6743.46	6746.86	6745.85	6746.98	0.004671	2.81	82.6	55.04	0.4	4.11	0.43
WestTrib	12577.83	10-yr	2.03	366.4	1.57	6743.46	6747.31		6747.5	0.005248	3.5	110.07	68.9	0.49	4.32	0.52
WestTrib	12577.83	25-yr	12.91	689.61	27.48	6743.46	6748.07		6748.42	0.006604	4.83	180.43	116.94	0.67	4.74	0.63

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	12577.83	50-yr	21.93	912.94	65.13	6743.46	6748.46		6748.91	0.007579	5.63	233.85	162.78	0.79	4.94	0.68
WestTrib	12577.83	100-yr	36.36	1144.6	119.04	6743.46	6748.76	6748.1	6749.33	0.008896	6.47	288.21	206.96	0.91	5.14	0.77
WestTrib	12177.83	2-yr		83.16	36.84	6741.28	6742.33	6742.3	6742.52	0.043889	3.98	37.96	82.09	0.91	5.98	1.27
WestTrib	12177.83	5-yr	0.16	154.51	75.32	6741.28	6742.62	6742.55	6742.86	0.038182	4.54	65.66	118.6	0.94	5.84	1.32
WestTrib	12177.83	10-yr	4.72	244.78	120.5	6741.28	6742.88	6742.83	6743.18	0.033438	5.24	104.18	182.73	1.04	5.69	1.19
WestTrib	12177.83	25-yr	35.27	417.63	277.11	6741.28	6743.32	6743.27	6743.68	0.027071	6.09	205.95	274.9	0.99	5.39	1.27
WestTrib	12177.83	50-yr	68.16	522.56	409.27	6741.28	6743.59	6743.48	6743.96	0.023314	6.37	290.4	352.02	0.95	5.22	1.2
WestTrib	12177.83	100-yr	106.12	610.07	583.81	6741.28	6743.86	6743.71	6744.2	0.019469	6.42	391.39	397.72	0.84	5.09	1.2
WestTrib	11777.83	2-yr		120		6734.64	6736.45		6736.54	0.007394	2.32	51.72	59.65	0.44	5.9	0.4
WestTrib	11777.83	5-yr		230		6734.64	6736.91		6737.03	0.007576	2.81	81.89	72.2	0.46	5.86	0.54
WestTrib	11777.83	10-yr		370		6734.64	6737.33		6737.49	0.007751	3.23	114.66	83.5	0.49	5.85	0.66
WestTrib	11777.83	25-yr	1.81	725.67	2.52	6734.64	6738.06		6738.3	0.007956	4.01	187.99	127.91	0.58	5.79	0.73
WestTrib	11777.83	50-yr	10.23	978.18	11.58	6734.64	6738.43		6738.73	0.008283	4.49	241.6	160.47	0.64	5.73	0.78
WestTrib	11777.83	100-yr	26.51	1246.43	27.07	6734.64	6738.73		6739.11	0.008961	4.99	295.18	188.01	0.69	5.67	0.88
WestTrib	11377.83	2-yr		120		6728.87	6730.28	6730.28	6730.64	0.042149	4.82	24.92	35.41	1.01	0.32	1.85
WestTrib	11377.83	5-yr		230		6728.87	6730.69	6730.69	6731.16	0.038787	5.49	41.87	45.9	1.01	0.81	2.2
WestTrib	11377.83	10-yr		370		6728.87	6731.08	6731.08	6731.64	0.036503	6.05	61.17	55.45	1.01	1.55	2.51
WestTrib	11377.83	25-yr		730		6728.87	6731.76	6731.76	6732.51	0.033313	6.93	105.36	72.75	1.01	2.95	3
WestTrib	11377.83	50-yr		999.6	0.4	6728.87	6732.19	6732.19	6733	0.029803	7.23	139.38	112.15	1.14	3.37	2.31
WestTrib	11377.83	100-yr		1275.63	24.37	6728.87	6732.58	6732.58	6733.42	0.025203	7.43	188.74	136.74	1.1	3.67	2.17
WestTrib	11046.61	2-yr		53.55	66.45	6725.04	6727.46		6727.46	0.000182	0.47	319.91	230.62	0.06	0	0.02
WestTrib	11046.61	5-yr		102.76	127.24	6725.04	6727.48		6727.48	0.000642	0.89	324.66	232.1	0.11	0.01	0.06
WestTrib	11046.61	10-yr		165.76	204.24	6725.04	6727.52		6727.54	0.001522	1.38	335.04	235.3	0.17	0.02	0.14
WestTrib	11046.61	25-yr		331.91	398.09	6725.04	6727.78		6727.84	0.003675	2.29	397.86	253.84	0.27	0.07	0.36
WestTrib	11046.61	50-yr		460.18	539.82	6725.04	6728.01		6728.09	0.004627	2.71	459.61	270.9	0.31	0.11	0.49
WestTrib	11046.61	100-yr		635.39	664.61	6725.04	6728.25		6728.36	0.005666	3.24	529.83	342.36	0.38	0.16	0.55
WestTrib	10857.54	2-yr	2.35	84.31	33.34	6719.9	6727.45		6727.46	0.000004	0.18	980.24	277.43	0.01	0	0
WestTrib	10857.54	5-yr	4.56	161.46	63.98	6719.9	6727.47		6727.48	0.000013	0.34	985.53	278.47	0.03	0.01	0
WestTrib	10857.54	10-yr	7.51	259.29	103.2	6719.9	6727.51		6727.52	0.000033	0.55	996.72	280.67	0.04	0.03	0.01
WestTrib	10857.54	25-yr	16.89	504.51	208.6	6719.9	6727.75		6727.76	0.00011	1.02	1063.96	290.71	0.08	0.1	0.03
WestTrib	10857.54	50-yr	24.67	682.03	293.3	6719.9	6727.96		6727.98	0.000179	1.34	1126.68	301.69	0.1	0.16	0.04
WestTrib	10857.54	100-yr	33.82	875.54	390.64	6719.9	6728.17		6728.21	0.000264	1.66	1192.45	316.17	0.13	0.22	0.06
WestTrib	10621.52	2-yr	111.66	8.34	0	6726.43	6727.45	6727.45	6727.45	0.001492	0.66	240.73	433.98	0.12	0.24	0.05
WestTrib	10621.52	5-yr	214.01	15.99	0	6726.43	6727.45	6727.45	6727.46	0.005483	1.26	240.73	433.98	0.23	0.75	0.19
WestTrib	10621.52	10-yr	344.27	25.72	0	6726.43	6727.45	6727.45	6727.49	0.014189	2.03	240.73	433.98	0.37	1.46	0.49
WestTrib	10621.52	25-yr	675.13	54.82	0.05	6726.43	6727.56	6727.45	6727.66	0.030472	3.45	288.39	437.62	0.56	2.38	1.25

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	10621.52	50-yr	919.9	79.9	0.21	6726.43	6727.69	6727.45	6727.82	0.031167	4.03	347.02	442.04	0.58	2.36	1.53
WestTrib	10621.52	100-yr	1191.5	108	0.49	6726.43	6727.81	6727.54	6727.98	0.032903	4.63	400.8	446.07	0.61	2.35	1.84
WestTrib	10574.28	2-yr	75.4	19.05	25.55	6719.51	6724.66	6724.66	6724.74	0.135202	3.19	56.8	361.34	0.99	0.22	1.32
WestTrib	10574.28	5-yr	157.12	39.58	53.3	6719.51	6724.76	6724.76	6724.88	0.119541	4.11	91.9	364.76	1	0.61	1.88
WestTrib	10574.28	10-yr	232.51	58.48	79	6719.51	6724.83	6724.83	6725	0.108781	4.67	119.97	367.43	1	0.96	2.21
WestTrib	10574.28	25-yr	464.76	116.54	158.7	6719.51	6725.02	6725.02	6725.28	0.096212	5.94	190.02	374.01	1.01	1.86	3.05
WestTrib	10574.28	50-yr	627.76	157.16	215.08	6719.51	6725.13	6725.13	6725.45	0.090808	6.58	232.61	377.95	1.02	2.27	3.48
WestTrib	10574.28	100-yr	815.61	203.81	280.57	6719.51	6725.27	6725.27	6725.63	0.081906	7.07	282.2	384.19	1	2.83	3.75
WestTrib	10177.83	2-yr	0.05	119.75	0.2	6714.74	6716.09		6716.17	0.005226	2.24	54.12	55.35	0.4	2.01	0.32
WestTrib	10177.83	5-yr	1.89	244.99	3.12	6714.74	6716.63		6716.77	0.005525	3.04	88.38	73.81	0.48	2.04	0.41
WestTrib	10177.83	10-yr	7.97	352.45	9.59	6714.74	6717.01		6717.2	0.00569	3.54	121.77	103.84	0.56	2.06	0.42
WestTrib	10177.83	25-yr	67.72	626.11	46.17	6714.74	6717.76	6716.99	6718.04	0.006173	4.57	244.19	241.07	0.74	2	0.39
WestTrib	10177.83	50-yr	158.72	763.68	77.6	6714.74	6718.14	6717.53	6718.43	0.005971	4.9	344.48	286.93	0.7	1.93	0.45
WestTrib	10177.83	100-yr	241.86	938.49	119.66	6714.74	6718.4		6718.76	0.00687	5.55	433.02	369.76	0.78	1.85	0.5
WestTrib	10004.08	2-yr		120		6712.43	6713.79	6713.79	6714.15	0.042141	4.79	25.05	35.9	1.01	0.77	1.83
WestTrib	10004.08	5-yr		250		6712.43	6714.27	6714.27	6714.74	0.037406	5.51	45.35	48.13	1	0.98	2.19
WestTrib	10004.08	10-yr	0	370		6712.43	6714.59	6714.58	6715.15	0.035759	5.99	61.73	56.04	1.01	0.99	2.45
WestTrib	10004.08	25-yr	17.31	720.84	1.85	6712.43	6715.29	6715.29	6716.03	0.026639	7	115.6	95.83	1.11	0.93	2
WestTrib	10004.08	50-yr	47.42	945.29	7.29	6712.43	6715.64	6715.64	6716.5	0.024963	7.65	152.22	116.09	1.15	0.81	2.04
WestTrib	10004.08	100-yr	127.64	1143.4	28.96	6712.43	6716.15	6716.15	6716.91	0.017566	7.43	239.02	215.55	1.17	0.67	1.21
WestTrib	9970.28*	2-yr		120		6711.36	6713.11	6712.78	6713.26	0.012566	3.06	39.25	44.47	0.57	0.14	0.69
WestTrib	9970.28*	5-yr		250	0	6711.36	6713.45	6713.24	6713.77	0.021067	4.5	55.56	52.28	0.77	0.31	1.39
WestTrib	9970.28*	10-yr		369.54	0.46	6711.36	6713.72	6713.56	6714.16	0.022693	5.28	70.45	56.55	0.83	0.42	1.76
WestTrib	9970.28*	25-yr	0.44	735.18	4.39	6711.36	6714.28	6714.25	6715.09	0.028173	7.25	104.92	73.98	1.07	0.71	2.48
WestTrib	9970.28*	50-yr	13.09	973.69	13.22	6711.36	6714.73	6714.73	6715.61	0.023135	7.64	144.99	104.49	1.13	0.7	2
WestTrib	9970.28*	100-yr	45.48	1222.23	32.29	6711.36	6715.13	6715.13	6716.1	0.021023	8.13	192.94	145.47	1.21	0.68	1.74
WestTrib	9936.49*	2-yr		119.07	0.93	6710.3	6713.09		6713.12	0.00096	1.32	92.95	57.74	0.18	0.02	0.1
WestTrib	9936.49*	5-yr		247.11	2.89	6710.3	6713.37		6713.46	0.002619	2.35	109.87	63	0.31	0.06	0.28
WestTrib	9936.49*	10-yr	0	364.5	5.5	6710.3	6713.59		6713.74	0.004163	3.11	124.06	69.08	0.41	0.11	0.46
WestTrib	9936.49*	25-yr	2.22	721.14	16.63	6710.3	6713.98		6714.39	0.009226	5.19	155.99	98.58	0.72	0.27	0.9
WestTrib	9936.49*	50-yr	8.43	961.13	30.44	6710.3	6714.19		6714.8	0.012389	6.36	178.79	113.23	0.88	0.39	1.21
WestTrib	9936.49*	100-yr	20.88	1229.41	49.71	6710.3	6714.4	6714.17	6715.24	0.015936	7.57	203.15	128.4	1.03	0.52	1.56
WestTrib	9902.69*	2-yr	0	116.48	3.52	6709.23	6713.09		6713.1	0.000222	0.82	157.44	77.98	0.1	0.01	0.03
WestTrib	9902.69*	5-yr	0.22	239.77	10.01	6709.23	6713.36		6713.39	0.000674	1.54	180.54	94.48	0.19	0.02	0.08
WestTrib	9902.69*	10-yr	1.41	350.82	17.77	6709.23	6713.56		6713.63	0.001142	2.1	201.45	106.94	0.26	0.04	0.13
WestTrib	9902.69*	25-yr	10.31	697.44	32.25	6709.23	6713.91		6714.12	0.003159	3.75	249.09	183.81	0.55	0.12	0.27

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	9902.69*	50-yr	25.13	919.05	55.82	6709.23	6714.1		6714.41	0.004573	4.67	286.75	207.65	0.67	0.17	0.39
WestTrib	9902.69*	100-yr	48.65	1157.68	93.67	6709.23	6714.28		6714.72	0.006147	5.6	325.84	218.44	0.76	0.24	0.57
WestTrib	9868.90*	2-yr	0.41	113.38	6.21	6708.17	6713.09		6713.09	0.000076	0.6	244.88	150.57	0.08	0	0.01
WestTrib	9868.90*	5-yr	2.86	229.16	17.98	6708.17	6713.35		6713.37	0.000245	1.12	294.14	200.08	0.16	0.01	0.02
WestTrib	9868.90*	10-yr	8.24	328.49	33.27	6708.17	6713.56		6713.59	0.000423	1.53	336.35	211.37	0.2	0.02	0.04
WestTrib	9868.90*	25-yr	32.29	620.79	86.92	6708.17	6713.91		6714	0.001148	2.66	412.65	228.21	0.32	0.05	0.13
WestTrib	9868.90*	50-yr	55.35	813.36	131.29	6708.17	6714.1		6714.24	0.00171	3.34	457.06	238.51	0.39	0.07	0.2
WestTrib	9868.90*	100-yr	83.83	1029.7	186.47	6708.17	6714.27		6714.48	0.002412	4.07	500.81	254.36	0.46	0.1	0.29
WestTrib	9835.112	2-yr	2.84	101.85	15.31	6707.1	6713.09	6709.03	6713.09	0.00003	0.44	397.95	216.56	0.05		0
WestTrib	9835.112	5-yr	9.7	203.8	36.5	6707.1	6713.35	6709.77	6713.36	0.000098	0.82	457.4	228.58	0.09		0.01
WestTrib	9835.112	10-yr	18.54	292.75	58.71	6707.1	6713.56	6710.31	6713.57	0.000176	1.13	505.41	240.85	0.12		0.02
WestTrib	9835.112	25-yr	51.79	561.88	126.33	6707.1	6713.9	6711.86	6713.95	0.00052	2.03	593.36	273.1	0.21		0.07
WestTrib	9835.112	50-yr	81.23	741.63	177.14	6707.1	6714.09	6712.73	6714.17	0.000807	2.59	646.44	292.16	0.27		0.11
WestTrib	9835.112	100-yr	120.6	947.37	232.03	6707.1	6714.26	6713.01	6714.38	0.001188	3.21	699.4	315.32	0.33		0.16
WestTrib	9806.61		Culvert													
WestTrib	9776.876	2-yr		119.62	0.38	6706.1	6708.54	6708.53	6709.25	0.031983	6.81	17.77	25.67	0.98	1.25	2.82
WestTrib	9776.876	5-yr		247.5	2.5	6706.1	6709.46	6709.46	6710.65	0.028296	8.78	28.84	36.01	0.99	1.29	4.05
WestTrib	9776.876	10-yr		365.08	4.92	6706.1	6710.19	6710.19	6711.72	0.025814	9.98	37.6	45.39	0.99	1.37	4.81
WestTrib	9776.876	25-yr	69.69	521.42	148.88	6706.1	6711.01	6711.01	6711.99	0.017459	9.24	126.65	89.8	1.18	0.81	1.52
WestTrib	9776.876	50-yr	116.51	626.12	257.37	6706.1	6711.77	6711.77	6712.64	0.013605	9.23	213.02	126.99	1.02	0.72	1.41
WestTrib	9776.876	100-yr	167.35	703.34	429.31	6706.1	6712.33	6712.21	6713.1	0.011616	9.22	289.64	143.65	0.87	0.96	1.45
WestTrib	9737.71*	2-yr		120		6705.24	6707.57	6707.37	6708.01	0.024446	5.3	22.62	17.92	0.83	1.19	1.85
WestTrib	9737.71*	5-yr	0.09	237.62	12.29	6705.24	6708.39	6708.22	6708.92	0.020742	5.97	46.74	37.16	0.92	1.06	1.59
WestTrib	9737.71*	10-yr	1.56	341.21	27.22	6705.24	6708.73	6708.67	6709.47	0.023037	7.12	60.63	42.89	1.02	0.99	1.99
WestTrib	9737.71*	25-yr	22.91	627.07	90.01	6705.24	6709.66	6709.66	6710.75	0.022386	9	107.4	58.4	1.09	0.95	2.53
WestTrib	9737.71*	50-yr	51.74	798.6	149.66	6705.24	6710.29	6710.29	6711.43	0.019154	9.46	149.83	89.88	1.17	0.81	1.97
WestTrib	9737.71*	100-yr	73.07	1021.99	204.94	6705.24	6710.43	6710.43	6712.14	0.027662	11.66	163.89	115.49	1.55	1.09	2.43
WestTrib	9698.55*	2-yr		120		6704.37	6706.2	6706.2	6706.82	0.03632	6.32	18.98	15.45	1.01	0.72	2.67
WestTrib	9698.55*	5-yr		250		6704.37	6707.09	6707.09	6707.86	0.033421	7.06	35.39	22.97	1	0.92	3.09
WestTrib	9698.55*	10-yr		363.34	6.66	6704.37	6707.67	6707.66	6708.48	0.026751	7.28	54.22	37.93	1.06	0.99	2.32
WestTrib	9698.55*	25-yr	2.29	679.28	58.43	6704.37	6708.67	6708.66	6709.7	0.02441	8.44	102.62	59.66	1.09	0.96	2.57
WestTrib	9698.55*	50-yr	14.3	883.39	102.31	6704.37	6709.2	6709.2	6710.35	0.021982	9.09	137.39	71.96	1.1	0.91	2.58
WestTrib	9698.55*	100-yr	33.45	1109.15	157.4	6704.37	6709.62	6709.62	6710.98	0.022578	10.04	170.53	95.18	1.23	0.92	2.49
WestTrib	9659.39*	2-yr		120		6703.51	6705.86		6706.06	0.008071	3.59	33.45	20.63	0.5	0.17	0.78
WestTrib	9659.39*	5-yr		250		6703.51	6706.46		6706.9	0.013954	5.33	46.91	24.01	0.67	0.39	1.63

Falcon DBPS

West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	9659.39*	10-yr		369.28	0.72	6703.51	6706.87	6706.43	6707.49	0.020702	6.33	59.37	39.42	0.91	0.54	1.89
WestTrib	9659.39*	25-yr		710.51	29.49	6703.51	6707.74	6707.74	6708.74	0.023384	8.19	99.99	53.52	1.04	0.71	2.66
WestTrib	9659.39*	50-yr	0.47	926.11	73.42	6703.51	6708.34	6708.25	6709.37	0.021867	8.42	137.25	71.37	1.03	0.74	2.58
WestTrib	9659.39*	100-yr	6.92	1170.45	122.63	6703.51	6708.79	6708.79	6709.97	0.020993	9.14	173.11	86.51	1.09	0.76	2.58
WestTrib	9620.23*	2-yr		120		6702.64	6705.83		6705.89	0.001649	1.98	60.52	27.57	0.24	0.04	0.22
WestTrib	9620.23*	5-yr		249.89	0.11	6702.64	6706.34		6706.51	0.005041	3.32	75.84	44.58	0.45	0.13	0.52
WestTrib	9620.23*	10-yr		367.05	2.95	6702.64	6706.69		6706.95	0.006635	4.14	92.87	51.85	0.54	0.19	0.72
WestTrib	9620.23*	25-yr		708.25	31.75	6702.64	6707.51		6708.02	0.009567	5.85	141.4	66.56	0.69	0.3	1.24
WestTrib	9620.23*	50-yr	0	926.16	73.84	6702.64	6708.02		6708.62	0.011588	6.45	179.37	83.3	0.75	0.38	1.53
WestTrib	9620.23*	100-yr	1.55	1176.41	122.04	6702.64	6708.41	6707.87	6709.16	0.012343	7.23	218.1	124.39	0.92	0.42	1.33
WestTrib	9581.077	2-yr		119.99	0.01	6701.78	6705.82		6705.85	0.00048	1.25	96.18	38.31	0.14	0.03	0.07
WestTrib	9581.077	5-yr		247.94	2.06	6701.78	6706.3		6706.37	0.001525	2.14	121.58	61.43	0.27	0.08	0.18
WestTrib	9581.077	10-yr		362.52	7.48	6701.78	6706.65		6706.77	0.002206	2.76	144.33	69.32	0.33	0.12	0.28
WestTrib	9581.077	25-yr		696.75	43.25	6701.78	6707.47		6707.71	0.003737	4.1	208.17	87.06	0.46	0.24	0.55
WestTrib	9581.077	50-yr	0.03	904.72	95.25	6701.78	6707.94		6708.25	0.005015	4.66	262.49	157.05	0.61	0.3	0.52
WestTrib	9581.077	100-yr	6.79	1145	148.21	6701.78	6708.35		6708.73	0.005466	5.26	355.79	274.8	0.77	0.34	0.44
WestTrib	9442.913	2-yr	0.7	119.14	0.16	6701.78	6705.81		6705.82	0.000078	0.59	211.23	82.14	0.06	0	0.01
WestTrib	9442.913	5-yr	2.91	245.49	1.6	6701.78	6706.28		6706.3	0.000216	1.07	253.64	103.74	0.12	0.01	0.03
WestTrib	9442.913	10-yr	4.96	360.1	4.94	6701.78	6706.61		6706.64	0.000354	1.45	296.48	165.47	0.19	0.02	0.04
WestTrib	9442.913	25-yr	48.8	662.42	28.77	6701.78	6707.41		6707.48	0.000673	2.24	467.91	250.46	0.27	0.04	0.08
WestTrib	9442.913	50-yr	98.35	846.43	55.22	6701.78	6707.86		6707.95	0.000825	2.62	598.29	325.64	0.32	0.05	0.09
WestTrib	9442.913	100-yr	189.7	1022.27	88.03	6701.78	6708.29		6708.39	0.000938	2.94	745.56	363.57	0.32	0.06	0.12
WestTrib	9377.833	2-yr	11.72	107.89	0.39	6701.78	6705.81		6705.81	0.000035	0.42	369.5	193.66	0.05	0.06	0
WestTrib	9377.833	5-yr	33.92	214.23	1.85	6701.78	6706.28		6706.28	0.000094	0.75	468.35	233.61	0.09	0.14	0.01
WestTrib	9377.833	10-yr	60.08	305.5	4.42	6701.78	6706.61		6706.62	0.000148	0.99	551.48	264.95	0.11	0.2	0.02
WestTrib	9377.833	25-yr	160.42	558.98	20.59	6701.78	6707.41		6707.44	0.00029	1.54	809.23	377.59	0.16	0.35	0.04
WestTrib	9377.833	50-yr	242.91	719.06	38.02	6701.78	6707.86		6707.9	0.000367	1.83	1020.67	513.21	0.2	0.43	0.05
WestTrib	9377.833	100-yr	388.32	853.73	57.95	6701.78	6708.29		6708.33	0.000408	2.03	1247.05	544.38	0.19	0.47	0.06
WestTrib	9076.212	2-yr		120		6704.79	6705.52	6705.52	6705.75	0.049862	3.84	31.22	70.77	1.02	1.64	1.37
WestTrib	9076.212	5-yr		250		6704.79	6705.82	6705.82	6706.15	0.043843	4.61	54.21	84.88	1.02	1.32	1.75
WestTrib	9076.212	10-yr		370		6704.79	6706.03	6706.03	6706.43	0.040381	5.03	73.59	95.17	1.01	1.14	1.95
WestTrib	9076.212	25-yr		740		6704.79	6706.5	6706.5	6707.09	0.035777	6.18	119.75	103.73	1.01	0.96	2.57
WestTrib	9076.212	50-yr		1000		6704.79	6706.77	6706.77	6707.47	0.033403	6.71	149.13	108.51	1.01	0.9	2.86
WestTrib	9076.212	100-yr		1300		6704.79	6707.05	6707.05	6707.86	0.031799	7.25	179.39	111.93	1.01	0.83	3.17
WestTrib	9038.543	2-yr		120		6696.96	6698.47	6698.44	6698.83	0.037735	4.82	24.91	32.47	0.97	4.04	1.8
WestTrib	9038.543	5-yr		250		6696.96	6699.03	6698.93	6699.46	0.028389	5.25	47.64	44.05	0.89	3.9	1.9

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	9038.543	10-yr		370		6696.96	6699.44		6699.92	0.023358	5.58	66.32	48.24	0.84	3.81	1.99
WestTrib	9038.543	25-yr		740		6696.96	6700.45		6700.97	0.018162	5.79	127.88	73.03	0.77	3.53	1.97
WestTrib	9038.543	50-yr		1000		6696.96	6701.04		6701.54	0.015761	5.63	177.54	95.03	0.73	3.36	1.83
WestTrib	9038.543	100-yr		1300		6696.96	6701.59		6702.07	0.012959	5.57	233.41	109.77	0.67	3.19	1.71
WestTrib	8864.996	2-yr		120		6692.49	6694.54		6694.78	0.015582	3.99	30.1	26.65	0.66	4.26	1.08
WestTrib	8864.996	5-yr		250		6692.49	6695.13	6694.82	6695.57	0.018237	5.29	47.23	30.65	0.75	4.51	1.72
WestTrib	8864.996	10-yr		370		6692.49	6695.52		6696.12	0.020499	6.21	59.58	33.14	0.82	4.68	2.26
WestTrib	8864.996	25-yr		740		6692.49	6696.47	6696.26	6697.44	0.022328	7.89	93.75	38.56	0.89	5.06	3.3
WestTrib	8864.996	50-yr		1000		6692.49	6696.99	6696.82	6698.18	0.023243	8.73	114.51	41.6	0.93	5.27	3.88
WestTrib	8864.996	100-yr	0.31	1299.19	0.5	6692.49	6697.5	6697.5	6698.89	0.026152	9.47	138.15	54.48	1.05	4.74	4.04
WestTrib	8577.833	2-yr		120		6688.89	6690.38		6690.52	0.013903	2.94	40.78	52.89	0.59	0.64	0.67
WestTrib	8577.833	5-yr		250		6688.89	6690.85		6691.06	0.013284	3.7	67.66	60.15	0.61	0.54	0.93
WestTrib	8577.833	10-yr		370		6688.89	6691.17		6691.45	0.012766	4.23	87.54	61.61	0.62	0.49	1.13
WestTrib	8577.833	25-yr		740		6688.89	6691.9		6692.38	0.013547	5.55	133.31	64.87	0.68	0.49	1.72
WestTrib	8577.833	50-yr		1000		6688.89	6692.31		6692.91	0.013971	6.24	160.16	66.71	0.71	0.41	2.07
WestTrib	8577.833	100-yr		1300		6688.89	6693.02		6693.62	0.010438	6.23	208.79	69.91	0.63	0.29	1.91
WestTrib	8550.10*	2-yr		120		6688.23	6689.48	6689.48	6689.87	0.041414	5.03	23.87	31.01	1.01	0.97	1.96
WestTrib	8550.10*	5-yr		250		6688.23	6690.12	6690.01	6690.52	0.027955	5.09	49.12	46.84	0.88	0.9	1.81
WestTrib	8550.10*	10-yr		370		6688.23	6690.54	6690.35	6690.96	0.023839	5.23	70.7	57.47	0.83	0.81	1.81
WestTrib	8550.10*	25-yr		740		6688.23	6691.26		6691.89	0.021832	6.38	116.06	65.53	0.84	0.58	2.38
WestTrib	8550.10*	50-yr		1000		6688.23	6691.87		6692.5	0.015454	6.37	157.04	68.34	0.74	0.39	2.18
WestTrib	8550.10*	100-yr		1300		6688.23	6692.8		6693.33	0.008865	5.84	222.63	72.36	0.59	0.24	1.67
WestTrib	8522.37*	2-yr		120		6687.57	6688.55	6688.46	6688.88	0.028843	4.65	25.82	28.43	0.86	0.94	1.59
WestTrib	8522.37*	5-yr		250		6687.57	6689	6689	6689.62	0.036221	6.32	39.58	32.41	1.01	0.81	2.67
WestTrib	8522.37*	10-yr		370		6687.57	6689.43	6689.43	6690.15	0.03415	6.81	54.37	38.06	1	0.71	2.94
WestTrib	8522.37*	25-yr		740		6687.57	6690.72		6691.31	0.019129	6.17	119.85	63.59	0.79	0.45	2.2
WestTrib	8522.37*	50-yr		1000		6687.57	6691.65		6692.11	0.009862	5.46	183.18	71.01	0.6	0.27	1.55
WestTrib	8522.37*	100-yr		1300		6687.57	6692.71		6693.09	0.005583	4.98	260.95	75.34	0.47	0.18	1.17
WestTrib	8494.64*	2-yr		120		6686.91	6687.61	6687.61	6687.94	0.040405	4.59	26.16	38.15	0.98	0.36	1.7
WestTrib	8494.64*	5-yr		250		6686.91	6688.32	6688.03	6688.66	0.017084	4.64	53.87	39.81	0.7	0.28	1.39
WestTrib	8494.64*	10-yr		370		6686.91	6688.92	6688.37	6689.27	0.0119	4.7	78.79	43.22	0.61	0.25	1.3
WestTrib	8494.64*	25-yr		740		6686.91	6690.54	6689.22	6690.87	0.00737	4.55	162.54	65.59	0.51	0.18	1.1
WestTrib	8494.64*	50-yr		1000		6686.91	6691.55	6689.73	6691.84	0.004722	4.28	233.75	74.24	0.42	0.13	0.89
WestTrib	8494.64*	100-yr		1300		6686.91	6692.66	6690.29	6692.92	0.003086	4.08	318.41	78.45	0.36	0.08	0.75
WestTrib	8466.917	2-yr		120		6686.25	6687.49	6686.83	6687.55	0.003479	1.96	61.25	50.33	0.31		0.26
WestTrib	8466.917	5-yr		250		6686.25	6688.28	6687.19	6688.37	0.002975	2.46	101.45	51.66	0.31		0.35

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	8466.917	10-yr		370		6686.25	6688.9	6687.46	6689.01	0.002757	2.76	134.09	53.94	0.31		0.4
WestTrib	8466.917	25-yr		740		6686.25	6690.52	6688.18	6690.68	0.002258	3.27	226.62	69.2	0.3		0.5
WestTrib	8466.917	50-yr		1000		6686.25	6691.52	6688.62	6691.71	0.00186	3.48	287.75	78.35	0.28		0.52
WestTrib	8466.917	100-yr		1300		6686.25	6692.63	6689.05	6692.83	0.001567	3.67	354.59	81.64	0.27		0.54
WestTrib	8435.27		Culvert													
WestTrib	8403.688	2-yr		120		6685.08	6686.32	6685.67	6686.38	0.003743	2.01	59.65	49.92	0.32	0.12	0.27
WestTrib	8403.688	5-yr		250		6685.08	6687.08	6686.05	6687.18	0.003274	2.54	98.58	51.98	0.32	0.13	0.37
WestTrib	8403.688	10-yr		370		6685.08	6687.59	6686.33	6687.73	0.003284	2.95	125.38	55.37	0.34	0.13	0.47
WestTrib	8403.688	25-yr		740		6685.08	6688.75	6687.04	6688.99	0.003646	3.97	186.48	57.9	0.38	0.15	0.75
WestTrib	8403.688	50-yr		1000		6685.08	6689.37	6687.45	6689.69	0.003904	4.54	220.33	62.59	0.4	0.16	0.93
WestTrib	8403.688	100-yr		1300	0	6685.08	6689.99	6687.89	6690.39	0.004238	5.11	254.34	88.95	0.42	0.17	1.13
WestTrib	8368.43*	2-yr		120		6684.73	6686.19		6686.26	0.003227	2.05	58.46	42.58	0.31	0.12	0.27
WestTrib	8368.43*	5-yr		250		6684.73	6686.94		6687.05	0.00364	2.72	91.89	47.71	0.35	0.15	0.42
WestTrib	8368.43*	10-yr		370		6684.73	6687.44		6687.6	0.003943	3.17	116.61	50.94	0.37	0.16	0.55
WestTrib	8368.43*	25-yr		740		6684.73	6688.57		6688.84	0.004621	4.15	178.23	58.43	0.42	0.18	0.85
WestTrib	8368.43*	50-yr		1000		6684.73	6689.2		6689.54	0.004877	4.62	216.6	63.04	0.44	0.19	1.01
WestTrib	8368.43*	100-yr		1300		6684.73	6689.83		6690.23	0.005098	5.05	257.64	67.87	0.46	0.2	1.17
WestTrib	8333.18*	2-yr		120		6684.39	6686.06		6686.14	0.003492	2.23	53.89	37.02	0.33	0.15	0.31
WestTrib	8333.18*	5-yr		250		6684.39	6686.77		6686.91	0.004657	2.99	83.66	45.9	0.39	0.19	0.52
WestTrib	8333.18*	10-yr		370		6684.39	6687.25		6687.43	0.005134	3.47	106.71	50.33	0.42	0.21	0.67
WestTrib	8333.18*	25-yr		740		6684.39	6688.35		6688.66	0.005665	4.42	167.39	58.9	0.46	0.21	0.98
WestTrib	8333.18*	50-yr		1000		6684.39	6688.98		6689.34	0.005771	4.86	205.65	63.54	0.48	0.21	1.14
WestTrib	8333.18*	100-yr		1300		6684.39	6689.6		6690.03	0.00582	5.28	246.41	67.72	0.49	0.21	1.29
WestTrib	8297.92*	2-yr		120		6684.04	6685.9		6685.99	0.004965	2.45	49.06	38.44	0.38	0.2	0.39
WestTrib	8297.92*	5-yr		250		6684.04	6686.55		6686.72	0.00621	3.23	77.35	47.12	0.44	0.24	0.63
WestTrib	8297.92*	10-yr		370		6684.04	6687.02		6687.23	0.006537	3.69	100.36	52.11	0.47	0.24	0.78
WestTrib	8297.92*	25-yr		740		6684.04	6688.11		6688.44	0.006421	4.58	161.51	59.47	0.49	0.23	1.07
WestTrib	8297.92*	50-yr		1000		6684.04	6688.74		6689.13	0.006322	4.99	200.34	64.01	0.5	0.22	1.21
WestTrib	8297.92*	100-yr		1300		6684.04	6689.37		6689.82	0.006209	5.38	241.51	67.85	0.5	0.22	1.35
WestTrib	8262.67*	2-yr		120		6683.69	6685.69		6685.79	0.006309	2.55	46.97	41.43	0.42	0.39	0.44
WestTrib	8262.67*	5-yr		250		6683.69	6686.31		6686.48	0.007207	3.32	75.35	49.5	0.47	0.38	0.68
WestTrib	8262.67*	10-yr		370		6683.69	6686.78		6686.99	0.006884	3.73	99.13	52.62	0.48	0.35	0.8
WestTrib	8262.67*	25-yr		740		6683.69	6687.89		6688.21	0.006465	4.57	161.86	60.17	0.49	0.31	1.07
WestTrib	8262.67*	50-yr		1000		6683.69	6688.52		6688.91	0.00626	4.96	201.57	64.57	0.49	0.3	1.2
WestTrib	8262.67*	100-yr		1300		6683.69	6689.16		6689.6	0.006082	5.34	243.47	68.21	0.5	0.29	1.33

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	8227.417	2-yr		146		6683.34	6685.16		6685.4	0.019433	3.89	37.57	41.17	0.72	4.6	1.1
WestTrib	8227.417	5-yr		295		6683.34	6685.79		6686.1	0.014927	4.46	66.2	48.29	0.67	4.53	1.27
WestTrib	8227.417	10-yr		440		6683.34	6686.27		6686.64	0.013072	4.89	89.92	51.47	0.65	4.5	1.41
WestTrib	8227.417	25-yr		870		6683.34	6687.39		6687.9	0.010827	5.74	151.59	58.99	0.63	4.48	1.71
WestTrib	8227.417	50-yr		1170		6683.34	6688.02		6688.6	0.010132	6.15	190.11	63.25	0.63	4.49	1.87
WestTrib	8227.417	100-yr		1510		6683.34	6688.64		6689.31	0.009563	6.54	230.95	67.03	0.62	4.53	2.01
WestTrib	7777.832	2-yr		146		6678.53	6680.67		6680.8	0.006221	2.85	51.25	37.85	0.43	1.53	0.52
WestTrib	7777.832	5-yr		295		6678.53	6681.35		6681.57	0.007196	3.77	78.26	42.17	0.49	1.6	0.82
WestTrib	7777.832	10-yr		440		6678.53	6681.84		6682.14	0.007855	4.41	99.87	45.38	0.52	1.66	1.06
WestTrib	7777.832	25-yr		870		6678.53	6682.93		6683.42	0.009174	5.66	153.66	53.68	0.59	1.79	1.61
WestTrib	7777.832	50-yr		1170		6678.53	6683.5		6684.12	0.009829	6.3	185.75	58.16	0.62	1.86	1.92
WestTrib	7777.832	100-yr		1510		6678.53	6684.03		6684.78	0.010594	6.94	217.43	62.15	0.65	1.93	2.26
WestTrib	7614.436	2-yr		146		6677.49	6679.07	6678.81	6679.27	0.015442	3.6	40.6	42.07	0.64	1.78	0.93
WestTrib	7614.436	5-yr		295		6677.49	6679.67	6679.29	6679.96	0.01392	4.36	67.62	48.4	0.65	1.8	1.21
WestTrib	7614.436	10-yr		440		6677.49	6680.11	6679.66	6680.48	0.013519	4.9	89.71	52.64	0.66	1.83	1.43
WestTrib	7614.436	25-yr		870		6677.49	6681.09	6680.49	6681.64	0.013166	5.93	146.7	63.35	0.69	1.93	1.89
WestTrib	7614.436	50-yr		1170		6677.49	6681.62	6680.92	6682.26	0.013219	6.44	181.57	83.59	0.7	1.98	2.14
WestTrib	7614.436	100-yr	0.53	1509.36	0.11	6677.49	6682.08	6681.45	6682.85	0.01317	7.03	215.87	102.16	0.75	2.02	2.23
WestTrib	7377.832	2-yr		146		6675.39	6677.42		6677.49	0.004296	2.14	68.12	58.84	0.35	1	0.31
WestTrib	7377.832	5-yr		295		6675.39	6678.04		6678.15	0.004569	2.76	107.04	66.29	0.38	1.1	0.46
WestTrib	7377.832	10-yr		440		6675.39	6678.49		6678.65	0.004725	3.19	137.9	70.19	0.4	1.16	0.58
WestTrib	7377.832	25-yr	2.21	867.79		6675.39	6679.44		6679.71	0.005141	4.17	212.37	93.79	0.49	1.32	0.72
WestTrib	7377.832	50-yr	15.32	1154.68		6675.39	6679.94		6680.28	0.005353	4.7	263.86	114.02	0.54	1.4	0.77
WestTrib	7377.832	100-yr	46.79	1463.21		6675.39	6680.43		6680.83	0.005446	5.16	323.77	129.08	0.57	1.54	0.85
WestTrib	7135.927	2-yr		146	0	6674.34	6676.43	6675.62	6676.49	0.003958	2.01	72.74	65.81	0.34	2.01	0.27
WestTrib	7135.927	5-yr	0.11	292.79	2.09	6674.34	6676.94	6676.1	6677.06	0.004509	2.75	110.62	81.51	0.42	2.15	0.38
WestTrib	7135.927	10-yr	0.74	430.47	8.79	6674.34	6677.32	6676.43	6677.48	0.004898	3.29	143.31	93.82	0.46	2.26	0.46
WestTrib	7135.927	25-yr	7.31	812.07	50.62	6674.34	6678.11	6677.11	6678.4	0.005768	4.46	228.16	120.43	0.55	2.45	0.68
WestTrib	7135.927	50-yr	16.13	1061.2	92.68	6674.34	6678.52	6677.5	6678.89	0.006208	5.07	280.8	133.53	0.59	2.52	0.81
WestTrib	7135.927	100-yr	26.93	1342.47	140.59	6674.34	6678.8	6677.9	6679.29	0.007503	5.9	319.67	142.4	0.66	2.47	1.05
WestTrib	6927.82	2-yr		146		6673.33	6674.24	6674.24	6674.49	0.048131	4.03	36.24	74.54	1.02	0.24	1.46
WestTrib	6927.82	5-yr		295		6673.33	6674.55	6674.55	6674.91	0.042057	4.79	61.54	88.12	1.01	0.42	1.83
WestTrib	6927.82	10-yr		440		6673.33	6674.77	6674.77	6675.22	0.039681	5.37	81.88	94.53	1.02	0.59	2.14
WestTrib	6927.82	25-yr		870		6673.33	6675.29	6675.29	6675.95	0.034369	6.48	134.26	105.02	1.01	0.99	2.74
WestTrib	6927.82	50-yr		1170		6673.33	6675.61	6675.59	6676.36	0.031777	6.96	168.03	111.2	1	1.18	2.99
WestTrib	6927.82	100-yr		1510		6673.33	6676.12		6676.81	0.021095	6.66	226.59	117.66	0.85	1.26	2.53

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	6678.024	2-yr	15.08	128.46	2.46	6670.07	6673.39		6673.4	0.000184	0.64	252.05	137.48	0.08	0.14	0.02
WestTrib	6678.024	5-yr	29.54	258.05	7.41	6670.07	6673.84		6673.85	0.00038	1.05	314.59	141.87	0.12	0.25	0.05
WestTrib	6678.024	10-yr	43.6	383.34	13.06	6670.07	6674.12		6674.14	0.000586	1.4	354.32	144.59	0.15	0.36	0.09
WestTrib	6678.024	25-yr	85.72	750.61	33.66	6670.07	6674.73		6674.8	0.001135	2.24	447.6	170.76	0.23	0.65	0.18
WestTrib	6678.024	50-yr	121.1	998.6	50.29	6670.07	6675.08		6675.18	0.001445	2.7	526.33	311.07	0.34	0.81	0.15
WestTrib	6678.024	100-yr	141.45	1296.81	71.74	6670.07	6675.41		6675.55	0.001831	3.21	639.53	372.85	0.4	0.98	0.2
WestTrib	6485.523	2-yr	62.41	83.59		6670.07	6673.03	6673.03	6673.26	0.018644	4.9	63.78	139.03	0.99	0.95	0.53
WestTrib	6485.523	5-yr	173.67	121.33		6670.07	6673.36	6673.36	6673.6	0.022299	5.77	121.96	227.45	0.94	1	0.74
WestTrib	6485.523	10-yr	291.94	148.06		6670.07	6673.51	6673.51	6673.78	0.026223	6.44	158.95	262.48	0.93	0.82	0.98
WestTrib	6485.523	25-yr	658.41	211.59		6670.07	6673.81	6673.81	6674.15	0.034434	7.82	245.49	311.27	0.93	0.68	1.68
WestTrib	6485.523	50-yr	916.86	253.14		6670.07	6674	6674	6674.38	0.0381	8.5	306.11	330.15	0.9	0.65	2.19
WestTrib	6485.523	100-yr	1224.6	285.36		6670.07	6674.17	6674.17	6674.57	0.039074	8.84	360.57	335.71	0.87	0.62	2.6
WestTrib	6451.52	2-yr		146		6667.06	6668.12	6668.12	6668.44	0.045441	4.51	32.37	53.7	1.02	1.4	1.7
WestTrib	6451.52	5-yr		295		6667.06	6668.5	6668.5	6668.98	0.038537	5.54	53.22	57.18	1.01	3.36	2.23
WestTrib	6451.52	10-yr		440		6667.06	6669	6668.8	6669.44	0.021535	5.29	83.22	61.96	0.8	3.75	1.79
WestTrib	6451.52	25-yr		870		6667.06	6670.14		6670.58	0.012783	5.33	163.26	80.86	0.66	3.79	1.59
WestTrib	6451.52	50-yr		1170		6667.06	6670.73		6671.19	0.011211	5.46	214.42	92.75	0.63	3.79	1.6
WestTrib	6451.52	100-yr		1510		6667.06	6671.3		6671.78	0.010238	5.56	271.45	106.51	0.61	3.78	1.61
WestTrib	6177.403	2-yr		146		6662.01	6664.98		6665.03	0.001718	1.86	78.42	41.66	0.24	0.07	0.2
WestTrib	6177.403	5-yr		295		6662.01	6665.11		6665.3	0.005741	3.51	84.13	42.71	0.44	0.26	0.7
WestTrib	6177.403	10-yr		440		6662.01	6665.34		6665.68	0.009343	4.67	94.19	44.78	0.57	0.48	1.21
WestTrib	6177.403	25-yr	0.02	869.98		6662.01	6666.1		6666.79	0.014812	6.65	130.93	55.53	0.76	1.03	2.15
WestTrib	6177.403	50-yr	6.57	1163.43		6662.01	6666.51	6666.08	6667.41	0.017028	7.64	158.72	77.21	0.94	1.27	2.16
WestTrib	6177.403	100-yr	26.09	1483.15	0.76	6662.01	6666.86	6666.69	6668	0.018761	8.63	189.11	93.44	1.06	1.5	2.35
WestTrib	5998.479	2-yr	3.09	141.89	1.02	6659.31	6664.95		6664.96	0.00013	0.79	210.87	110.86	0.1	0.09	0.02
WestTrib	5998.479	5-yr	6.98	285.82	2.2	6659.31	6665.01		6665.04	0.000502	1.56	217.18	115.83	0.2	0.13	0.06
WestTrib	5998.479	10-yr	12.89	423.32	3.79	6659.31	6665.12		6665.2	0.000991	2.24	231.86	141.9	0.3	0.27	0.1
WestTrib	5998.479	25-yr	61.57	795.46	12.97	6659.31	6665.56		6665.76	0.002432	3.78	328.64	257.58	0.56	0.74	0.19
WestTrib	5998.479	50-yr	141.05	1005.05	23.9	6659.31	6665.87		6666.14	0.003058	4.44	413.92	286.95	0.61	0.77	0.27
WestTrib	5998.479	100-yr	248.1	1221.91	40	6659.31	6666.18		6666.5	0.003629	5.06	510.27	335.99	0.65	0.76	0.34
WestTrib	5863.168	2-yr		142.95	3.05	6663.44	6664.57	6664.57	6664.87	0.037895	4.42	35.38	324.52	1.07	1.01	1.22
WestTrib	5863.168	5-yr	223.06	66.81	5.13	6663.44	6664.9	6664.9	6664.91	0.002228	1.38	335.24	388.67	0.18	0.21	0.12
WestTrib	5863.168	10-yr	332.7	99.64	7.65	6663.44	6664.9	6664.9	6664.93	0.004956	2.05	335.24	388.67	0.27	0.34	0.27
WestTrib	5863.168	25-yr	657.84	197.02	15.13	6663.44	6664.9	6664.9	6665.02	0.019375	4.06	335.24	388.67	0.54	0.65	1.04
WestTrib	5863.168	50-yr	883.79	257.25	28.96	6663.44	6665.26	6664.9	6665.37	0.011623	3.87	477.23	415.84	0.44	0.5	0.83
WestTrib	5863.168	100-yr	1128	322.86	59.14	6663.44	6665.64	6664.9	6665.74	0.007911	3.78	640.37	439.62	0.38	0.36	0.72

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	5837.669	2-yr		146		6659.58	6661.07	6661.07	6661.5	0.040333	5.25	27.83	33.53	1.01	0.15	2.07
WestTrib	5837.669	5-yr	0.16	294.84		6659.58	6661.57	6661.57	6662.24	0.035212	6.55	45.2	35.94	1.03	0.26	2.73
WestTrib	5837.669	10-yr	1.26	438.74		6659.58	6661.99	6661.99	6662.82	0.031053	7.3	60.83	37.97	1.02	0.34	3.06
WestTrib	5837.669	25-yr	18.4	851.6		6659.58	6663.05	6663.05	6664.17	0.0239	8.56	108.53	53.46	1.05	0.51	2.98
WestTrib	5837.669	50-yr	57	1113		6659.58	6663.67	6663.67	6664.87	0.020776	9	150.1	183.89	1.23	0.56	2.04
WestTrib	5837.669	100-yr	201.69	1307.19	1.13	6659.58	6664.47	6664.47	6665.38	0.016528	8.18	247.83	318.02	1.09	0.49	1.58
WestTrib	5761.531	2-yr	6.41	127.38	12.22	6656.79	6660.79		6660.8	0.00009	0.68	257.61	90.42	0.07	0.07	0.02
WestTrib	5761.531	5-yr	14.59	253.85	26.56	6656.79	6661.21		6661.23	0.000251	1.22	297.17	105.84	0.12	0.16	0.04
WestTrib	5761.531	10-yr	25.08	373.22	41.7	6656.79	6661.54		6661.58	0.00042	1.65	340.47	180.58	0.2	0.23	0.05
WestTrib	5761.531	25-yr	84.84	697.28	87.88	6656.79	6662.19		6662.29	0.000933	2.7	505.93	271.61	0.32	0.42	0.11
WestTrib	5761.531	50-yr	171.09	881.17	117.74	6656.79	6662.57		6662.69	0.001181	3.18	607.54	277.4	0.33	0.49	0.16
WestTrib	5761.531	100-yr	273.63	1085.19	151.17	6656.79	6662.93		6663.09	0.001442	3.67	713.07	307.07	0.37	0.55	0.21
WestTrib	5566.663	2-yr	56.76	89.24		6659.82	6660.67		6660.73	0.014325	2.14	76.06	156.58	0.5	0.19	0.43
WestTrib	5566.663	5-yr	99.42	195.58	0	6659.82	6660.98		6661.07	0.013262	2.75	133.44	246.75	0.58	0.19	0.45
WestTrib	5566.663	10-yr	147.5	291.94	0.56	6659.82	6661.24		6661.35	0.010545	3.01	199.88	259.58	0.52	0.18	0.51
WestTrib	5566.663	25-yr	335.9	527.61	6.49	6659.82	6661.71		6661.86	0.009293	3.67	325.71	274.15	0.5	0.18	0.69
WestTrib	5566.663	50-yr	463.1	692.25	14.66	6659.82	6662.03		6662.2	0.00837	3.96	414.37	296.67	0.49	0.18	0.73
WestTrib	5566.663	100-yr	609.49	871.41	29.1	6659.82	6662.36		6662.54	0.007452	4.2	517.17	321.59	0.48	0.17	0.75
WestTrib	5544.6	2-yr	74.79	85.21		6659.26	6660.51		6660.54	0.005689	1.77	133.29	244.22	0.34	0.13	0.19
WestTrib	5544.6	5-yr	164.77	155.23		6659.26	6660.84		6660.88	0.00551	2.17	221.48	283.85	0.34	0.12	0.27
WestTrib	5544.6	10-yr	285.26	234.74	0	6659.26	6661.11		6661.17	0.005759	2.57	299.68	292.34	0.35	0.12	0.37
WestTrib	5544.6	25-yr	569.02	430.46	0.52	6659.26	6661.58		6661.68	0.006549	3.4	442.27	317.43	0.39	0.14	0.57
WestTrib	5544.6	50-yr	809.62	588.36	2.02	6659.26	6661.88		6662.02	0.007059	3.94	540.61	333.53	0.42	0.16	0.71
WestTrib	5544.6	100-yr	1111.6	783.8	4.59	6659.26	6662.19		6662.38	0.007655	4.53	650.22	363.05	0.45	0.17	0.85
WestTrib	5525.06*	2-yr	44.69	115.31		6658.68	6660.36		6660.41	0.006915	2.1	112.8	233.8	0.46	0.13	0.21
WestTrib	5525.06*	5-yr	124.82	195.18	0	6658.68	6660.7		6660.76	0.006176	2.44	203.62	290.05	0.42	0.12	0.27
WestTrib	5525.06*	10-yr	235.12	284.6	0.29	6658.68	6660.97		6661.05	0.006314	2.86	281.33	298.4	0.42	0.14	0.37
WestTrib	5525.06*	25-yr	502.57	494.71	2.72	6658.68	6661.41		6661.54	0.007403	3.74	417.2	329.09	0.46	0.16	0.59
WestTrib	5525.06*	50-yr	728.79	661.11	10.1	6658.68	6661.69		6661.86	0.008055	4.31	515.77	361.25	0.49	0.17	0.72
WestTrib	5525.06*	100-yr	1012.7	857.31	29.99	6658.68	6662		6662.21	0.008543	4.87	630.43	383.8	0.51	0.19	0.87
WestTrib	5505.53*	2-yr	22.82	137.18		6658.09	6660.22		6660.28	0.006145	2.14	100.9	206.91	0.5	0.09	0.19
WestTrib	5505.53*	5-yr	86.71	232.6	0.69	6658.09	6660.56		6660.64	0.005994	2.6	187.38	284.08	0.49	0.1	0.25
WestTrib	5505.53*	10-yr	176.07	341.41	2.52	6658.09	6660.79		6660.91	0.0072	3.21	258.16	323.01	0.53	0.13	0.36
WestTrib	5505.53*	25-yr	419.02	558.63	22.34	6658.09	6661.21		6661.38	0.008261	4.07	401.7	359.77	0.54	0.16	0.57
WestTrib	5505.53*	50-yr	619.12	728.01	52.87	6658.09	6661.48		6661.69	0.008926	4.63	501.64	376.81	0.55	0.17	0.74
WestTrib	5505.53*	100-yr	878.92	930.15	90.93	6658.09	6661.78		6662.02	0.009514	5.21	615.06	404.16	0.57	0.19	0.9

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	5485.99*	2-yr	16.85	142.15	1	6657.51	6660.14		6660.18	0.003319	1.8	116.78	213.56	0.41	0.05	0.11
WestTrib	5485.99*	5-yr	61.19	246.67	12.14	6657.51	6660.47		6660.54	0.004152	2.39	205.26	314.85	0.47	0.07	0.17
WestTrib	5485.99*	10-yr	117	373.35	29.66	6657.51	6660.65		6660.77	0.006329	3.21	268.54	361.87	0.57	0.11	0.29
WestTrib	5485.99*	25-yr	317.32	593.01	89.66	6657.51	6661.05		6661.22	0.007612	4.08	415.51	373.79	0.55	0.14	0.53
WestTrib	5485.99*	50-yr	494.42	766.42	139.16	6657.51	6661.3		6661.51	0.008593	4.69	510.18	389.59	0.57	0.16	0.7
WestTrib	5485.99*	100-yr	722	979.73	198.28	6657.51	6661.56		6661.83	0.009737	5.37	616.77	423.03	0.6	0.19	0.88
WestTrib	5466.45*	2-yr	14.5	125.72	19.78	6656.93	6660.11		6660.13	0.001236	1.27	185.78	261.56	0.24	0.02	0.05
WestTrib	5466.45*	5-yr	45.77	221.36	52.88	6656.93	6660.43		6660.47	0.001918	1.82	276.65	304.14	0.29	0.03	0.11
WestTrib	5466.45*	10-yr	75.66	349.61	94.72	6656.93	6660.58		6660.66	0.003604	2.64	325.24	372.65	0.42	0.06	0.2
WestTrib	5466.45*	25-yr	227.91	585.28	186.81	6656.93	6660.94		6661.08	0.005587	3.7	461.93	393.99	0.48	0.11	0.41
WestTrib	5466.45*	50-yr	375.31	772.28	252.41	6656.93	6661.16		6661.35	0.007087	4.44	551.42	419.13	0.54	0.14	0.58
WestTrib	5466.45*	100-yr	562.71	980.35	356.94	6656.93	6661.4		6661.64	0.008346	5.14	653.78	439.17	0.57	0.16	0.77
WestTrib	5446.92*	2-yr	12.01	101.7	46.29	6656.34	6660.11		6660.12	0.000414	0.84	285.29	279.03	0.12	0.01	0.03
WestTrib	5446.92*	5-yr	35.51	188.05	96.44	6656.34	6660.42		6660.44	0.00081	1.32	379.4	323	0.18	0.01	0.06
WestTrib	5446.92*	10-yr	67.35	299.82	152.83	6656.34	6660.55		6660.59	0.001657	1.97	424.65	346.85	0.25	0.03	0.13
WestTrib	5446.92*	25-yr	168.56	548.16	283.28	6656.34	6660.88		6660.97	0.00347	3.13	551.29	425.12	0.38	0.07	0.28
WestTrib	5446.92*	50-yr	276.77	726.1	397.14	6656.34	6661.08		6661.21	0.004711	3.84	636.85	441.12	0.44	0.09	0.42
WestTrib	5446.92*	100-yr	427.5	934.63	537.87	6656.34	6661.29		6661.48	0.006042	4.58	732.88	458.96	0.49	0.12	0.6
WestTrib	5427.389	2-yr	10.16	84.35	65.49	6655.76	6660.1	6657.21	6660.11	0.000161	0.59	404.4	300.69	0.07		0.01
WestTrib	5427.389	5-yr	29.79	168.14	122.07	6655.76	6660.41	6658.06	6660.42	0.000401	1.02	508.24	374.69	0.12		0.03
WestTrib	5427.389	10-yr	55.09	266.15	198.75	6655.76	6660.54	6658.99	6660.56	0.000841	1.53	557.74	392.88	0.18		0.07
WestTrib	5427.389	25-yr	139.36	481.9	378.75	6655.76	6660.85	6660.01	6660.9	0.001866	2.47	683.8	426.49	0.26		0.19
WestTrib	5427.389	50-yr	218.53	653.87	527.6	6655.76	6661.03	6660.01	6661.12	0.002783	3.15	763.7	451.09	0.32		0.29
WestTrib	5427.389	100-yr	328.49	859.83	711.68	6655.76	6661.22	6660.01	6661.36	0.0039	3.89	853.64	478.96	0.38		0.43
WestTrib	5398.42		Culvert													
WestTrib	5379.875	2-yr		190		6655.48	6657.91	6657.18	6658.31	0.017919	5.1	37.26	48.12	0.58	1.07	2.69
WestTrib	5379.875	5-yr		400		6655.48	6658.32	6658.26	6659.63	0.046922	9.17	43.63	49.38	0.96	1.92	8.25
WestTrib	5379.875	10-yr		600		6655.48	6658.7	6658.51	6658.96	0.009616	4.12	145.79	50.54	0.43	0.89	1.67
WestTrib	5379.875	25-yr	53.31	1069.96	76.73	6655.48	6659.75	6658.51	6660.13	0.014195	5.22	418.5	644.12	1.08	1.83	0.57
WestTrib	5379.875	50-yr	116.62	1222.79	160.59	6655.48	6659.96	6658.87	6660.36	0.014868	5.59	556.7	670.17	0.98	1.72	0.77
WestTrib	5379.875	100-yr	226.42	1380.06	293.52	6655.48	6660.25	6659.99	6660.64	0.014317	5.8	758.42	740.88	0.87	1.69	0.91
WestTrib	5249.459	2-yr	45.82	117.44	26.74	6655.84	6657.22	6656.64	6657.24	0.003529	1.44	247.57	339.25	0.24	3.03	0.16
WestTrib	5249.459	5-yr	116.21	215.7	68.09	6655.84	6657.67	6656.9	6657.71	0.004138	1.93	423.52	429.05	0.26	3.2	0.25
WestTrib	5249.459	10-yr	185.44	295.75	118.81	6655.84	6658.03	6657.08	6658.07	0.004073	2.17	591.63	495.12	0.26	3.36	0.3
WestTrib	5249.459	25-yr	375.82	570.78	253.39	6655.84	6658.18	6657.5	6658.3	0.012051	3.92	665.19	520.41	0.44	3.8	0.96
WestTrib	5249.459	50-yr	483.55	666.53	349.92	6655.84	6658.52	6657.65	6658.64	0.010105	3.95	868.82	687.72	0.44	4.08	0.8

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	5249.459	100-yr	624.79	803.8	471.4	6655.84	6658.81	6657.78	6658.95	0.010188	4.27	1088.99	781.22	0.44	4.14	0.89
WestTrib	4939.985	2-yr	0.82	189.18		6653.56	6654.07	6654.05	6654.21	0.085588	2.94	65.54	424.94	0.92	4.16	1.68
WestTrib	4939.985	5-yr	5.3	394.7		6653.56	6654.32	6654.24	6654.5	0.057215	3.49	119.11	456.23	0.84	3.55	1.89
WestTrib	4939.985	10-yr	10.09	589.91		6653.56	6654.41	6654.41	6654.72	0.077368	4.48	140.34	465.17	1		2.94
WestTrib	4939.985	25-yr	4.78	257.36	937.87	6653.56	6654.45	6654.45	6654.5	0.01235	1.85	659.04	468.63	0.27	1.54	1.08
WestTrib	4939.985	50-yr	6.78	337.31	1155.9	6653.56	6654.49	6654.45	6654.56	0.017833	2.3	676.77	475.05	0.33	1.83	1.58
WestTrib	4939.985	100-yr	15.97	531.68	1352.4	6653.56	6654.71	6654.45	6654.81	0.018246	2.77	792.27	538.71	0.36	1.72	1.67
WestTrib	4838.839	2-yr		190		6647.04	6649.81	6649.32	6650.05	0.024023	3.96	48.02	35.99	0.6	1.69	1.98
WestTrib	4838.839	5-yr		384.19	15.81	6647.04	6650.63	6650.09	6650.95	0.023562	4.63	107.15	133.92	0.89	1.45	1.17
WestTrib	4838.839	10-yr	0.18	531.47	68.35	6647.04	6651.04	6650.78	6651.4	0.023372	5.11	169.4	185.19	0.89	1.36	1.33
WestTrib	4838.839	25-yr	12.23	883.66	304.11	6647.04	6651.96	6651.53	6652.35	0.018416	5.83	374.64	332.96	0.84	1.24	1.29
WestTrib	4838.839	50-yr	24.21	1052.26	423.53	6647.04	6652.32	6651.79	6652.74	0.017597	6.16	516.3	406.12	0.81	1.25	1.39
WestTrib	4838.839	100-yr	40.61	1183.62	675.77	6647.04	6652.7	6652.06	6653.09	0.015374	6.2	677.75	439.12	0.71	1.19	1.48
WestTrib	4753.93	2-yr		190		6645.76	6648.17		6648.36	0.016418	3.54	53.67	35.55	0.51	2.49	1.52
WestTrib	4753.93	5-yr		399.1	0.9	6645.76	6649.35		6649.5	0.012217	3.08	131.64	92.56	0.45	2.25	1.07
WestTrib	4753.93	10-yr		595.03	4.97	6645.76	6649.87		6650.05	0.010826	3.4	182.51	104.66	0.45	2.13	1.17
WestTrib	4753.93	25-yr	1.12	1171.29	27.58	6645.76	6650.82		6651.11	0.01133	4.41	293.98	130.7	0.51	2.09	1.58
WestTrib	4753.93	50-yr	4.07	1449.35	46.57	6645.76	6651.13		6651.49	0.012137	4.9	354.47	286.16	0.76	2.1	0.94
WestTrib	4753.93	100-yr	28.86	1777.27	93.87	6645.76	6651.48	6650.33	6651.9	0.012776	5.4	479.13	446.55	0.89	2.09	0.85
WestTrib	4577.833	2-yr		190		6642.7	6645.68		6645.86	0.012306	3.42	55.6	31.04	0.45	7.05	1.34
WestTrib	4577.833	5-yr		400		6642.7	6647.06		6647.26	0.013273	3.6	111.07	61.05	0.47	7.2	1.48
WestTrib	4577.833	10-yr		599.83	0.17	6642.7	6647.69		6647.92	0.013479	3.83	157.24	84.45	0.49	6.98	1.55
WestTrib	4577.833	25-yr	44.64	1137.91	17.45	6642.7	6648.69		6649.03	0.012356	4.76	336.88	306.64	0.78	6.07	0.84
WestTrib	4577.833	50-yr	120.36	1341.31	38.33	6642.7	6649.05	6648.04	6649.4	0.011661	4.99	459.24	362.08	0.74	5.67	0.92
WestTrib	4577.833	100-yr	239.26	1574.43	86.31	6642.7	6649.46	6648.56	6649.81	0.010851	5.21	610.91	382.84	0.66	5.2	1.08
WestTrib	4290.608	2-yr		190		6635.42	6638.07	6638.07	6638.8	0.069357	6.87	27.65	19.4	1.01	4.1	5.9
WestTrib	4290.608	5-yr		399.98	0.02	6635.42	6639.06	6639.06	6640.06	0.061679	8.04	49.79	25.52	1.01	4.42	7.14
WestTrib	4290.608	10-yr	1.2	598.09	0.71	6635.42	6639.72	6639.72	6640.95	0.053771	8.89	69.18	33.16	1.08	4.49	6.68
WestTrib	4290.608	25-yr	43.2	1149.45	7.36	6635.42	6641.25	6641.25	6642.95	0.041384	10.68	132.68	51.29	1.15	4.47	6.42
WestTrib	4290.608	50-yr	82.48	1399.73	17.79	6635.42	6641.9	6641.9	6643.73	0.03757	11.22	169.39	62.72	1.16	4.34	6.13
WestTrib	4290.608	100-yr	149.24	1703.86	46.9	6635.42	6642.69	6642.69	6644.61	0.033123	11.69	225.16	77.15	1.15	4.07	5.87
WestTrib	4034.844	2-yr		190		6632.25	6634.46		6634.6	0.006559	2.98	63.67	45.83	0.45	2.15	0.57
WestTrib	4034.844	5-yr		400		6632.25	6635.23		6635.47	0.007431	3.94	101.5	52.73	0.5	2.2	0.89
WestTrib	4034.844	10-yr		600		6632.25	6635.77		6636.09	0.007885	4.58	131.05	56.73	0.53	2.23	1.12
WestTrib	4034.844	25-yr		1200		6632.25	6637.03		6637.54	0.008487	5.75	208.8	67.66	0.58	2.29	1.61
WestTrib	4034.844	50-yr	0.06	1499.92	0.01	6632.25	6637.51		6638.11	0.008439	6.19	242.5	72.39	0.6	2.34	1.74

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	4034.844	100-yr	2.92	1896.49	0.59	6632.25	6638.09		6638.79	0.008086	6.71	286.46	80.03	0.62	2.49	1.78
WestTrib	3777.832	2-yr		190		6630.53	6632.29		6632.46	0.010947	3.3	57.53	52.21	0.55	2.48	0.75
WestTrib	3777.832	5-yr		400		6630.53	6632.99		6633.26	0.009982	4.17	96	57.22	0.57	2.5	1.04
WestTrib	3777.832	10-yr		600		6630.53	6633.52		6633.86	0.009546	4.71	127.41	61.01	0.57	2.52	1.23
WestTrib	3777.832	25-yr		1200		6630.53	6634.73		6635.25	0.009397	5.79	207.22	71.74	0.6	2.63	1.67
WestTrib	3777.832	50-yr		1500		6630.53	6635.16		6635.77	0.00983	6.28	238.94	75.76	0.62	2.7	1.91
WestTrib	3777.832	100-yr		1900		6630.53	6635.5		6636.3	0.011702	7.15	265.81	79.02	0.69	2.68	2.42
WestTrib	3377.832	2-yr		190		6627.76	6629.9		6629.98	0.003903	2.2	86.56	66.95	0.34	3.59	0.31
WestTrib	3377.832	5-yr		400		6627.76	6630.63		6630.76	0.004149	2.91	137.51	72.84	0.37	3.47	0.49
WestTrib	3377.832	10-yr		600		6627.76	6631.16		6631.34	0.00433	3.39	177.23	77.1	0.39	3.47	0.62
WestTrib	3377.832	25-yr	17.38	1182.62		6627.76	6632.34		6632.62	0.004623	4.33	302.97	182.62	0.59	3.51	0.48
WestTrib	3377.832	50-yr	59.45	1440.55		6627.76	6632.74		6633.07	0.004666	4.67	386.09	253.26	0.65	3.47	0.44
WestTrib	3377.832	100-yr	202.26	1697.54	0.2	6627.76	6633.3		6633.62	0.003967	4.75	530.86	261.77	0.56	3.4	0.5
WestTrib	2977.832	2-yr		190		6623.3	6625.8	6625.8	6626.39	0.036335	6.19	30.7	26.35	1.01	3.8	2.59
WestTrib	2977.832	5-yr	9.31	390.59	0.1	6623.3	6626.66	6626.66	6627.3	0.026681	6.5	67.09	63.01	1.1	4.14	1.76
WestTrib	2977.832	10-yr	38.63	558.27	3.1	6623.3	6627.1	6627.1	6627.87	0.024026	7.27	96.93	72.92	1.07	4.25	1.97
WestTrib	2977.832	25-yr	156.89	1005.75	37.35	6623.3	6628.07	6628.07	6629.11	0.021159	8.85	177.79	94.7	1.05	4.35	2.46
WestTrib	2977.832	50-yr	224.54	1207.76	67.71	6623.3	6628.47	6628.47	6629.6	0.019984	9.36	217.81	103.6	1.04	4.39	2.6
WestTrib	2977.832	100-yr	298.92	1505.61	95.47	6623.3	6628.66	6628.66	6630.21	0.025863	11.05	238.1	109.67	1.2	5.14	3.48
WestTrib	2577.832	2-yr		190		6617.05	6619.58		6619.71	0.00408	2.91	65.23	33.53	0.37	1.45	0.48
WestTrib	2577.832	5-yr		400		6617.05	6620.61		6620.85	0.005223	3.89	102.78	40.99	0.43	1.76	0.8
WestTrib	2577.832	10-yr	0.05	599.95		6617.05	6621.33		6621.64	0.005672	4.45	134.91	47.66	0.47	1.98	0.97
WestTrib	2577.832	25-yr	4.48	1190.82	4.7	6617.05	6622.72		6623.25	0.006257	5.87	211.65	65.21	0.57	2.28	1.23
WestTrib	2577.832	50-yr	8.69	1476.43	14.89	6617.05	6623.21		6623.86	0.006577	6.49	245.05	71.15	0.61	2.39	1.38
WestTrib	2577.832	100-yr	15.68	1849.14	35.17	6617.05	6623.74		6624.54	0.007146	7.28	284.5	77.81	0.66	2.52	1.59
WestTrib	2345.77	2-yr		190		6615.6	6618.07		6618.27	0.010687	3.51	54.07	43.85	0.56	3.41	0.82
WestTrib	2345.77	5-yr		399.04	0.96	6615.6	6618.73		6619.08	0.011789	4.8	84.22	48.57	0.64	3.27	1.26
WestTrib	2345.77	10-yr		596.51	3.49	6615.6	6619.13		6619.66	0.013845	5.86	105.27	57.7	0.76	3.22	1.56
WestTrib	2345.77	25-yr		1144.49	55.51	6615.6	6620.05	6619.85	6620.97	0.016779	7.87	175.6	93.9	0.99	3.27	1.94
WestTrib	2345.77	50-yr	0.12	1391.93	107.95	6615.6	6620.41	6620.28	6621.46	0.017657	8.52	210.85	106.08	1.03	3.31	2.17
WestTrib	2345.77	100-yr	2.34	1705.63	192.03	6615.6	6620.82	6620.75	6622.03	0.01773	9.26	257.48	119.71	1.06	3.37	2.36
WestTrib	2032.471	2-yr		190		6611.73	6614.63	6614.11	6614.86	0.011038	3.85	49.33	35.47	0.58	3.59	0.94
WestTrib	2032.471	5-yr	19.36	380.64		6611.73	6615.51	6614.89	6615.81	0.009214	4.47	101.59	73.11	0.65	3.33	0.79
WestTrib	2032.471	10-yr	61.88	537.42	0.7	6611.73	6616.11	6615.41	6616.44	0.007688	4.84	156.87	104.56	0.66	3.17	0.72
WestTrib	2032.471	25-yr	251.07	932.83	16.09	6611.73	6617.29		6617.7	0.006589	5.76	310.75	159.33	0.65	2.77	0.8
WestTrib	2032.471	50-yr	374.43	1098.07	27.51	6611.73	6617.71		6618.15	0.006414	6.1	380.89	175.22	0.64	2.6	0.87

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	2032.471	100-yr	538.98	1312.39	48.63	6611.73	6618.16		6618.65	0.006495	6.57	464.58	194.47	0.64	2.47	0.96
WestTrib	1777.832	2-yr		190		6606.72	6610.84	6610.24	6611.28	0.01835	5.3	35.87	21.38	0.72	2.14	1.73
WestTrib	1777.832	5-yr	1.78	396.7	1.52	6606.72	6611.75	6611.42	6612.48	0.019312	6.88	60.85	37.4	0.95	2.15	1.83
WestTrib	1777.832	10-yr	15.27	578.76	5.96	6606.72	6612.24	6612.21	6613.28	0.022035	8.32	81.47	47.19	1.1	2.27	2.25
WestTrib	1777.832	25-yr	137.72	1025.72	36.56	6606.72	6613.57	6613.57	6614.94	0.019356	10.06	162.13	74.66	1.12	1.91	2.53
WestTrib	1777.832	50-yr	237.59	1207.04	55.37	6606.72	6614.18	6614.18	6615.54	0.017076	10.34	213.53	94.9	1.1	1.71	2.33
WestTrib	1777.832	100-yr	399.95	1401.18	98.87	6606.72	6614.86	6614.86	6616.17	0.014773	10.51	286.28	118.53	1.04	1.49	2.17
WestTrib	1691.543	2-yr		190		6606.05	6608.48	6608.46	6609.14	0.03461	6.52	29.14	21.53	0.99	3.24	2.77
WestTrib	1691.543	5-yr		400		6606.05	6609.52	6609.52	6610.33	0.033115	7.22	55.37	34.18	1	3.25	3.19
WestTrib	1691.543	10-yr		597.42	2.58	6606.05	6610.13	6610.13	6611.01	0.030526	7.56	80.87	49.8	1.04	3.19	2.99
WestTrib	1691.543	25-yr	5.9	1150.22	43.88	6606.05	6611.27	6611.27	6612.36	0.023248	8.56	156.1	83.66	1.08	2.99	2.65
WestTrib	1691.543	50-yr	19.67	1402.78	77.55	6606.05	6611.66	6611.66	6612.87	0.022005	9.12	190.67	93.33	1.09	2.95	2.75
WestTrib	1691.543	100-yr	51.94	1719.43	128.63	6606.05	6612.14	6612.14	6613.46	0.020337	9.66	238.18	103.46	1.07	2.89	2.87
WestTrib	1408.459	2-yr		190		6603.07	6605.82	6605.26	6605.9	0.00521	2.28	83.35	75.35	0.38	4.45	0.36
WestTrib	1408.459	5-yr		400		6603.07	6606.46	6605.66	6606.6	0.00526	3.01	132.68	79.24	0.41	4.35	0.54
WestTrib	1408.459	10-yr		600		6603.07	6606.94	6605.96	6607.13	0.005281	3.5	171.62	82.17	0.43	4.29	0.68
WestTrib	1408.459	25-yr		1200		6603.07	6608.07	6606.71	6608.38	0.005306	4.47	268.65	89.07	0.45	4.16	0.98
WestTrib	1408.459	50-yr		1500		6603.07	6608.55	6607.03	6608.91	0.005281	4.81	311.7	91.97	0.46	4.12	1.1
WestTrib	1408.459	100-yr	0.52	1899.48		6603.07	6609.11	6607.42	6609.53	0.005276	5.21	366.31	105.03	0.49	4.09	1.13
WestTrib	1013.077	2-yr		190		6599.64	6601	6601	6601.44	0.038936	5.32	35.71	41.11	1.01	0.33	2.1
WestTrib	1013.077	5-yr		400		6599.64	6601.58	6601.58	6602.24	0.034434	6.52	61.37	47.42	1.01	0.5	2.76
WestTrib	1013.077	10-yr		600		6599.64	6602	6602	6602.84	0.032116	7.32	81.92	50.32	1.01	0.64	3.23
WestTrib	1013.077	25-yr		1200		6599.64	6603.02	6603.02	6604.22	0.027872	8.78	136.73	57.36	1	0.98	4.09
WestTrib	1013.077	50-yr		1500		6599.64	6603.43	6603.43	6604.78	0.027223	9.33	160.78	60.39	1.01	1.16	4.46
WestTrib	1013.077	100-yr		1900		6599.64	6603.99	6603.99	6605.44	0.026378	9.69	196.05	67.91	1.01	1.37	4.69
WestTrib	619.9514	2-yr		190		6596.37	6599.79		6599.79	0.000147	0.66	287.25	114.32	0.07	0.17	0.02
WestTrib	619.9514	5-yr		400		6596.37	6600.74		6600.76	0.000232	1	398.66	119.6	0.1	0.25	0.05
WestTrib	619.9514	10-yr		600		6596.37	6601.35		6601.37	0.000308	1.27	472.53	123.07	0.11	0.31	0.07
WestTrib	619.9514	25-yr		1200		6596.37	6602.59		6602.64	0.000521	1.91	629.85	132.03	0.15	0.46	0.15
WestTrib	619.9514	50-yr		1500		6596.37	6602.99		6603.07	0.000656	2.19	684.33	138.13	0.17	0.52	0.2
WestTrib	619.9514	100-yr		1900		6596.37	6603.44		6603.54	0.000856	2.54	748.98	148.44	0.2	0.63	0.27
WestTrib	388.339	2-yr		190		6597.46	6599.12	6599.12	6599.62	0.037414	5.7	33.33	33.55	1.01	0.66	2.31
WestTrib	388.339	5-yr		400		6597.46	6599.83	6599.83	6600.51	0.033673	6.59	60.74	45.44	1	0.67	2.79
WestTrib	388.339	10-yr		600		6597.46	6600.31	6600.31	6601.06	0.032875	6.97	86.09	58.13	1.01	0.67	3.02
WestTrib	388.339	25-yr	4.26	1195.74		6597.46	6601.35	6601.35	6602.19	0.029727	7.38	165.92	115.31	1.08	0.64	2.66
WestTrib	388.339	50-yr	38.57	1461.43		6597.46	6601.79	6601.79	6602.55	0.024236	7.1	232.57	185.23	1.1	0.56	1.89

Falcon DBPS

West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	388.339	100-yr	106.01	1793.97	0.02	6597.46	6602.1	6602.1	6602.91	0.023595	7.44	295.45	212.2	1.08	0.57	2.04
WestTrib	357.5013	2-yr		189.99	0.01	6595.39	6596.95	6596.57	6597.09	0.010384	2.94	64.62	67.9	0.53		0.61
WestTrib	357.5013	5-yr		397.66	2.34	6595.39	6597.54	6597.02	6597.75	0.010387	3.68	111.53	98.11	0.61		0.73
WestTrib	357.5013	10-yr		586.92	13.08	6595.39	6597.93	6597.38	6598.19	0.010383	4.19	152.02	112.41	0.63		0.87
WestTrib	357.5013	25-yr		1122.37	77.63	6595.39	6598.75	6598.13	6599.15	0.010389	5.25	261.48	161.75	0.71		1.04
WestTrib	357.5013	50-yr		1369.69	130.31	6595.39	6599.08	6598.43	6599.53	0.010394	5.58	319.27	187.48	0.72		1.1
WestTrib	357.5013	100-yr	0	1673.09	226.91	6595.39	6599.49	6598.82	6599.96	0.010381	5.84	399.87	210.47	0.71		1.22

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	47262 Culvert #1	2-yr	7404.34	7404.34	7403.73	7404.34	7408.01	9		3.17	5.09	6.13
WestTrib	47262 Culvert #1	5-yr	7408.11	7408.11	7408.04	7408.11	7408.01	14.27	6.91	6.72	8.07	8.36
WestTrib	47262 Culvert #1	10-yr	7408.19	7408.19	7408.17	7408.19	7408.01	14.37	18.05	6.68	8.13	8.41
WestTrib	47262 Culvert #1	25-yr	7408.33	7408.33	7408.35	7408.33	7408.01	14.54	44.05	6.55	8.23	8.49
WestTrib	47262 Culvert #1	50-yr	7408.4	7408.4	7408.38	7408.4	7408.01	14.61	59.15	6.5	8.27	8.52
WestTrib	47262 Culvert #1	100-yr	7408.45	7408.45	7408.45	7408.45	7408.01	14.68	74.82	6.46	8.31	8.56
WestTrib	45766.17 Culvert #1	2-yr	7362.13	7362.13	7362.1	7362.13	7362.01	3.48	11.52	7.64	4.98	5.27
WestTrib	45766.17 Culvert #1	5-yr	7362.25	7362.25	7362.24	7362.25	7362.01	3.51	33.01	7.4	5.03	5.23
WestTrib	45766.17 Culvert #1	10-yr	7362.33	7362.33	7362.32	7362.33	7362.01	3.54	52.64	7.09	5.06	5.27
WestTrib	45766.17 Culvert #1	25-yr	7362.52	7362.51	7362.51	7362.52	7362.01	3.6	105.85	6.81	5.15	5.35
WestTrib	45766.17 Culvert #1	50-yr	7362.6	7362.6	7362.6	7362.6	7362.01	3.62	136.03	6.73	5.18	5.39
WestTrib	45766.17 Culvert #1	100-yr	7362.68	7362.68	7362.68	7362.68	7362.01	3.65	165.78	6.64	5.22	5.43
WestTrib	41441.59 Culvert #1	2-yr	7262.38	7262.38	7262.38	7262.38	7262.01	2.51	40.01	4.11	6.39	6.39
WestTrib	41441.59 Culvert #1	5-yr	7262.71	7262.7	7262.71	7262.71	7262.01	2.49	106.99	3.97	6.34	6.34
WestTrib	41441.59 Culvert #1	10-yr	7262.94	7262.91	7262.94	7262.94	7262.01	2.49	167.29	3.96	6.34	6.34
WestTrib	41441.59 Culvert #1	25-yr	7263.37	7263.29	7263.36	7263.37	7262.01	2.49	307.48	3.9	6.33	6.33
WestTrib	41441.59 Culvert #1	50-yr	7263.57	7263.47	7263.57	7263.57	7262.01	2.49	387.46	3.87	6.33	6.33
WestTrib	41441.59 Culvert #1	100-yr	7263.79	7263.64	7263.78	7263.79	7262.01	2.49	478.2	3.85	6.35	6.35
WestTrib	21948.92 Culvert #1	2-yr	6886.74	6886.66	6886.65	6886.74	6896.01	21		2.16	3.29	3.77
WestTrib	21948.92 Culvert #1	5-yr	6887.19	6887.09	6887.06	6887.19	6896.01	50		2.35	4.4	5.29
WestTrib	21948.92 Culvert #1	10-yr	6888.48	6888.4	6888.25	6888.48	6896.01	170		3.06	6.61	8.53
WestTrib	21948.92 Culvert #1	25-yr	6890.97	6890.9	6890.61	6890.97	6896.01	510		4.53	9.54	12.53
WestTrib	21948.92 Culvert #1	50-yr	6892.21	6892.14	6891.8	6892.21	6896.01	720		5.18	10.7	13.98
WestTrib	21948.92 Culvert #1	100-yr	6893.44	6893.37	6892.99	6893.44	6896.01	950		5.89	11.74	15.2
WestTrib	19961.38 Culvert #1	2-yr	6847.62	6847.57	6847.52	6847.61	6856.01	12.21		1.27	3.4	4.13
WestTrib	19961.38 Culvert #2	2-yr	6847.62	6847.57	6847.53	6847.62	6856.01	12.54		1.27	3.43	5.05
WestTrib	19961.38 Culvert #3	2-yr	6847.62	6847.57	6847.54	6847.62	6856.01	12.6		1.27	3.44	5.07
WestTrib	19961.38 Culvert #4	2-yr	6847.62	6847.57	6847.54	6847.63	6856.01	12.65		1.27	3.44	5.09
WestTrib	19961.38 Culvert #1	5-yr	6847.94	6847.87	6847.81	6847.92	6856.01	22.72		1.39	4.18	5.21
WestTrib	19961.38 Culvert #2	5-yr	6847.94	6847.87	6847.83	6847.94	6856.01	23.3		1.39	4.22	6.37
WestTrib	19961.38 Culvert #3	5-yr	6847.94	6847.87	6847.83	6847.94	6856.01	23.48		1.39	4.23	6.42
WestTrib	19961.38 Culvert #4	5-yr	6847.94	6847.87	6847.83	6847.95	6856.01	23.5		1.39	4.23	6.43
WestTrib	19961.38 Culvert #1	10-yr	6848.46	6848.35	6848.3	6848.45	6856.01	44.67		1.61	5.24	6.73
WestTrib	19961.38 Culvert #2	10-yr	6848.46	6848.35	6848.31	6848.46	6856.01	45.04		1.61	5.25	8
WestTrib	19961.38 Culvert #3	10-yr	6848.46	6848.35	6848.31	6848.46	6856.01	45.16		1.61	5.26	8.01
WestTrib	19961.38 Culvert #4	10-yr	6848.46	6848.35	6848.31	6848.46	6856.01	45.14		1.61	5.26	8.01
WestTrib	19961.38 Culvert #1	25-yr	6850.03	6849.81	6849.77	6850.01	6856.01	133.98		2.32	7.56	9.79

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	19961.38 Culvert #2	25-yr	6850.03	6849.81	6849.79	6850.03	6856.01	135.14		2.32	7.58	11.07
WestTrib	19961.38 Culvert #3	25-yr	6850.03	6849.81	6849.79	6850.04	6856.01	135.39		2.32	7.58	11.08
WestTrib	19961.38 Culvert #4	25-yr	6850.03	6849.81	6849.8	6850.04	6856.01	135.48		2.32	7.58	11.08
WestTrib	19961.38 Culvert #1	50-yr	6850.8	6850.54	6850.51	6850.79	6856.01	188.56		2.61	8.47	10.87
WestTrib	19961.38 Culvert #2	50-yr	6850.8	6850.54	6850.53	6850.81	6856.01	190.2		2.61	8.49	12.11
WestTrib	19961.38 Culvert #3	50-yr	6850.8	6850.54	6850.54	6850.81	6856.01	190.54		2.61	8.5	12.12
WestTrib	19961.38 Culvert #4	50-yr	6850.8	6850.54	6850.54	6850.81	6856.01	190.71		2.61	8.5	12.12
WestTrib	19961.38 Culvert #1	100-yr	6851.57	6851.26	6851.26	6851.56	6856.01	249.35		2.94	9.29	11.79
WestTrib	19961.38 Culvert #2	100-yr	6851.57	6851.26	6851.27	6851.57	6856.01	250.04		2.94	9.3	12.99
WestTrib	19961.38 Culvert #3	100-yr	6851.57	6851.26	6851.27	6851.57	6856.01	250.2		2.94	9.3	12.99
WestTrib	19961.38 Culvert #4	100-yr	6851.57	6851.26	6851.27	6851.57	6856.01	250.41		2.94	9.31	13
WestTrib	18654 Culv Grp #1	2-yr	6838.07	6838.07	6838.33	6838.07	6840.01	33.34		12.2	9.43	9.43
WestTrib	18654 Culv Grp #2	2-yr	6838.09	6838.09	6838.09	6837.44	6838.01	20.93	10.39	14.11	11.85	16.08
WestTrib	18654 Culv Grp #1	5-yr	6838.21	6838.21	6838.51	6838.21	6840.01	34.4		12.34	9.73	9.73
WestTrib	18654 Culv Grp #2	5-yr	6838.28	6838.28	6838.26	6838.28	6838.01	23.48	62.12	13.46	13.29	13.29
WestTrib	18654 Culv Grp #1	10-yr	6838.38	6838.38	6838.62	6838.38	6840.01	35.02		12.44	9.91	9.91
WestTrib	18654 Culv Grp #2	10-yr	6838.41	6838.41	6838.37	6838.41	6838.01	23.68	126.52	12.77	13.4	13.4
WestTrib	18654 Culv Grp #1	25-yr	6838.96	6838.96	6838.99	6838.96	6840.01	37.05		11.97	10.48	10.48
WestTrib	18654 Culv Grp #2	25-yr	6838.93	6838.93	6838.93	6838.93	6838.01	23.28	484.85	12.34	13.17	13.17
WestTrib	18654 Culv Grp #1	50-yr	6839.18	6839.18	6839.13	6839.18	6840.01	37.8		10.63	10.69	10.69
WestTrib	18654 Culv Grp #2	50-yr	6839.17	6839.17	6839.17	6839.17	6838.01	21.59	712.05	10.62	12.22	12.22
WestTrib	18654 Culv Grp #1	100-yr	6839.44	6839.44	6839.3	6839.44	6840.01	38.65		7.71	10.94	10.94
WestTrib	18654 Culv Grp #2	100-yr	6839.41	6839.4	6839.41	6839.41	6838.01	18.44	959.6	7.74	10.44	10.44
WestTrib	17884 Culvert #2	2-yr	6822.73	6822.73			6825.68			0.72		
WestTrib	17884 Culvert #1	2-yr	6822.73	6822.73	6822.46	6822.73	6825.68	14		0.72	4.83	7.55
WestTrib	17884 Culvert #2	5-yr	6824.1	6824.1	6824.03	6824.1	6825.68	6.47		1.44	4.98	7.31
WestTrib	17884 Culvert #1	5-yr	6824.1	6824.1	6824.03	6824.1	6825.68	39.53		1.44	7.35	9.67
WestTrib	17884 Culvert #2	10-yr	6825.68	6825.68	6826.69	6825.7	6825.68	14.38	797.1	2.34	9.16	9.16
WestTrib	17884 Culvert #1	10-yr	6825.68	6825.68	6826.4	6825.67	6825.68	62.54	797.1	2.34	9.95	9.95
WestTrib	17884 Culvert #2	25-yr	6826.75	6826.73	6823.13	6826.75	6825.68	1.22	501.34	0.03	0.78	0.78
WestTrib	17884 Culvert #1	25-yr	6826.75	6826.73	6821.9	6826.75	6825.68	5.45	501.34	0.03	0.87	0.87
WestTrib	17884 Culvert #2	50-yr	6828.6	6828.58	6823.32	6828.6	6825.68	2.24	708.43	0.04	1.43	1.43
WestTrib	17884 Culvert #1	50-yr	6828.6	6828.58	6822.2	6828.6	6825.68	9.65	708.43	0.04	1.54	1.54
WestTrib	17884 Culvert #2	100-yr	6831.69	6831.67	6823.19	6831.69	6825.68	1.52	964.1	0.02	0.97	0.97
WestTrib	17884 Culvert #1	100-yr	6831.69	6831.67	6821.97	6831.69	6825.68	6.38	964.1	0.02	1.02	1.02
WestTrib	17840 Culvert #2	2-yr	6822.01	6822.01	6821.91	6822.01	6832.42	3.22		1.07	3.38	3.53
WestTrib	17840 Culvert #1	2-yr	6822.01	6822.01	6821.91	6822.01	6832.42	10.78		1.07	3.36	3.62
WestTrib	17840 Culvert #2	5-yr	6822.67	6822.66	6822.5	6822.68	6832.42	10.51		1.5	4.64	5.04

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Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	17840 Culvert #1	5-yr	6822.67	6822.66	6822.49	6822.67	6832.42	35.49		1.5	4.6	5.13
WestTrib	17840 Culvert #2	10-yr	6823.36	6823.34	6823.14	6823.37	6832.42	21.97		1.99	5.71	6.25
WestTrib	17840 Culvert #1	10-yr	6823.36	6823.34	6823.11	6823.36	6832.42	75.03		1.99	5.65	6.38
WestTrib	17840 Culvert #2	25-yr	6826.74	6826.67	6826.74	6826.66	6832.42	106.19		4.35	9.16	10.1
WestTrib	17840 Culvert #1	25-yr	6826.74	6826.67	6826.44	6826.73	6832.42	401.81		4.35	9.7	9.86
WestTrib	17840 Culvert #2	50-yr	6828.57	6828.5	6828.59	6828.23	6832.42	136.49		5.55	10.86	11.84
WestTrib	17840 Culvert #1	50-yr	6828.57	6828.5	6828.56	6828.33	6832.42	590.51		5.55	10.71	11.67
WestTrib	17840 Culvert #2	100-yr	6831.67	6831.61	6832.52	6831.67	6832.42	184.99		8.17	14.72	14.72
WestTrib	17840 Culvert #1	100-yr	6831.67	6831.61	6831.67	6830.81	6832.42	787.01		8.17	13.36	16.37
WestTrib	17517.42 Culvert #1	2-yr	6816.96	6816.95	6815.72	6816.96	6824.01	26		0	0.45	0.45
WestTrib	17517.42 Culvert #1	5-yr	6817.32	6817.32	6815.97	6817.32	6824.01	54		0.01	0.76	0.76
WestTrib	17517.42 Culvert #1	10-yr	6817.6	6817.59	6816.2	6817.6	6824.01	86		0.02	1.07	1.07
WestTrib	17517.42 Culvert #1	25-yr	6819.1	6819.03	6817.85	6819.1	6824.01	410		0.17	3.21	3.23
WestTrib	17517.42 Culvert #1	50-yr	6819.99	6819.87	6818.85	6819.99	6824.01	670		0.33	4.39	4.42
WestTrib	17517.42 Culvert #1	100-yr	6820.65	6820.48	6819.61	6820.65	6824.01	890		0.46	5.23	5.28
WestTrib	15318.93 Culvert #1	2-yr	6783.9	6783.84	6783.76	6783.9	6788.18	47		0.57	3.33	4.14
WestTrib	15318.93 Culvert #1	5-yr	6784.54	6784.46	6784.34	6784.54	6788.18	92		0.84	4.33	5.45
WestTrib	15318.93 Culvert #1	10-yr	6785.01	6784.9	6784.77	6785.01	6788.18	130		1.07	4.95	6.37
WestTrib	15318.93 Culvert #1	25-yr	6787.86	6787.66	6787.38	6787.86	6788.18	420		2.86	7.88	9.79
WestTrib	15318.93 Culvert #1	50-yr	6788.5	6788.4	6788.4	6788.5	6788.18	492.12	197.88	3.15	8.45	10.46
WestTrib	15318.93 Culvert #1	100-yr	6788.76	6788.63	6788.69	6788.76	6788.18	521.6	388.4	2.91	8.68	10.66
WestTrib	14944.59Culv Grp #1	2-yr	6778.21	6778.21	6777.97	6778.21	6780.01	4.86		2.36	2.46	4.31
WestTrib	14944.59Culv Grp #2	2-yr	6778.18	6778.18	6778.17	6778.18	6778.01	9.89	31.88	2.28	5.59	6.01
WestTrib	14944.59Culv Grp #1	5-yr	6778.29	6778.29	6778.04	6778.29	6780.01	5.36		1.89	2.57	4.45
WestTrib	14944.59Culv Grp #2	5-yr	6778.31	6778.31	6778.31	6778.31	6778.01	8.96	77.92	2.12	5.07	5.07
WestTrib	14944.59Culv Grp #1	10-yr	6778.44	6778.44	6778.19	6778.44	6780.01	6.46		1.14	2.78	4.71
WestTrib	14944.59Culv Grp #2	10-yr	6778.4	6778.4	6778.39	6778.4	6778.01	7.32	114.44	1.83	4.14	4.14
WestTrib	14944.59Culv Grp #1	25-yr	6778.8	6778.79	6778.52	6778.8	6780.01	8.99		0.79	3.23	4.67
WestTrib	14944.59Culv Grp #2	25-yr	6778.83	6778.83	6778.82	6778.83	6778.01	6.01	407.47	0.82	3.4	3.4
WestTrib	14944.59Culv Grp #1	50-yr	6779.09	6779.09	6778.8	6779.09	6780.01	11.15		1.08	3.65	5.68
WestTrib	14944.59Culv Grp #2	50-yr	6779.1	6779.09	6779.09	6779.1	6778.01	6.92	673.66	1.08	3.92	3.92
WestTrib	14944.59Culv Grp #1	100-yr	6779.25	6779.25	6778.93	6779.25	6780.01	12.19		1.19	3.89	5.88
WestTrib	14944.59Culv Grp #2	100-yr	6779.27	6779.27	6779.27	6779.27	6778.01	7.47	889.27	1.26	4.22	4.22
WestTrib	9806.61 Culvert #1	2-yr	6713.09	6713.09	6713.09	6713.08	6713.01	105.07	16.74	4.55	8.36	10.05
WestTrib	9806.61 Culvert #1	5-yr	6713.36	6713.35	6713.36	6713.37	6713.01	108.72	142.35	3.89	8.65	10.23
WestTrib	9806.61 Culvert #1	10-yr	6713.57	6713.56	6713.57	6713.57	6713.01	105.12	264.88	3.37	8.37	8.37
WestTrib	9806.61 Culvert #1	25-yr	6713.94	6713.9	6713.93	6713.94	6713.01	105.05	637.13	2.89	8.36	8.36

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	9806.61 Culvert #1	50-yr	6714.17	6714.09	6714.15	6714.17	6713.01	94.92	903.57	2.32	7.55	7.55
WestTrib	9806.61 Culvert #1	100-yr	6714.39	6714.26	6714.37	6714.39	6713.01	87.54	1212.5	1.93	6.97	6.97
WestTrib	8435.27 Culvert #1	2-yr	6687.55	6687.49	6687.49	6687.55	6695.9	120		1.17	4.76	2.72
WestTrib	8435.27 Culvert #1	5-yr	6688.38	6688.28	6688.21	6688.38	6695.9	250		1.2	6.09	3.52
WestTrib	8435.27 Culvert #1	10-yr	6689.02	6688.9	6688.77	6689.02	6695.9	370		1.3	6.97	4.18
WestTrib	8435.27 Culvert #1	25-yr	6690.69	6690.52	6690.26	6690.69	6695.9	740		1.77	8.88	5.87
WestTrib	8435.27 Culvert #1	50-yr	6691.72	6691.52	6691.18	6691.72	6695.9	1000		2.15	9.89	6.89
WestTrib	8435.27 Culvert #1	100-yr	6692.84	6692.63	6692.19	6692.84	6695.9	1300		2.64	10.94	8.01
WestTrib	5398.42 Culvert #1	2-yr	6660.11	6660.1	6660.12	6660.11	6660.01	110.35	49.65	2.2	8.58	9.07
WestTrib	5398.42 Culvert #1	5-yr	6660.42	6660.41	6660.36	6660.42	6660.01	107.54	212.46	2.09	7.61	7.61
WestTrib	5398.42 Culvert #1	10-yr	6660.55	6660.54	6660.55	6660.55	6660.01	112.48	407.52	1.84	7.96	7.96
WestTrib	5398.42 Culvert #1	25-yr	6660.91	6660.85	6660.87	6660.91	6660.01	88.67	915.38	1.09	6.27	6.27
WestTrib	5398.42 Culvert #1	50-yr	6661.12	6661.03	6661.09	6661.12	6660.01	88.83	1311.2	1.07	6.28	6.28
WestTrib	5398.42 Culvert #1	100-yr	6661.36	6661.22	6661.33	6661.36	6660.01	87.01	1815.6	0.97	6.16	6.16

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
WestTrib	17683.8*	2-yr	6818.21	6818.19		0.22	0	29.67		26		1.24
WestTrib	17683.8*	5-yr	6818.67	6818.64		0.24	0	37.45		54		1.5
WestTrib	17683.8*	10-yr	6819.03	6818.98		0.25	0	43.95		86		1.72
WestTrib	17683.8*	25-yr	6820.92	6820.81		0.24	0	62.25		410		2.69
WestTrib	17683.8*	50-yr	6821.86	6821.7		0.26	0.01	67.07		670		3.19
WestTrib	17683.8*	100-yr	6822.65	6822.47		0.25	0.01	73.45		890		3.38
WestTrib	17658.61	2-yr	6817.99	6817.97	6817.31			29.21		26		1.17
WestTrib	17658.61	5-yr	6818.43	6818.4	6817.6			38.46		54		1.47
WestTrib	17658.61	10-yr	6818.78	6818.73	6817.83			42.53		86		1.71
WestTrib	17658.61	25-yr	6820.67	6820.53	6819			51.77		410		3.02
WestTrib	17658.61	50-yr	6821.6	6821.39	6819.53			55.83		670		3.69
WestTrib	17658.61	100-yr	6822.4	6822.16	6819.98			62.16		890		3.93
WestTrib	17647.61BR U	2-yr	6817.96	6817.92	6817.44			22.5		26		1.52
WestTrib	17647.61BR U	5-yr	6818.39	6818.33	6817.74			29.84		54		1.97
WestTrib	17647.61BR U	10-yr	6818.74	6818.66	6817.95			34.08		86		2.28
WestTrib	17647.61BR U	25-yr	6820.2	6819.81	6819.21			40.87		410		5.02
WestTrib	17647.61BR U	50-yr	6821.52	6821.17	6819.86			45.68		670		4.76
WestTrib	17647.61BR U	100-yr	6821.68	6820.98	6820.31			45.23		890		6.72
WestTrib	17647.61BR D	2-yr	6817.94	6817.83	6817.6			16.2		26		2.67
WestTrib	17647.61BR D	5-yr	6818.36	6818.2	6817.95			20.04		54		3.24
WestTrib	17647.61BR D	10-yr	6818.71	6818.5	6818.21			22.79		86		3.76
WestTrib	17647.61BR D	25-yr	6820.64	6819.95	6819.66			29.99		410		6.67
WestTrib	17647.61BR D	50-yr	6821.62	6820.41	6820.41			31.95		670		8.83
WestTrib	17647.61BR D	100-yr	6822.35	6821	6821			34.43		890		9.34
WestTrib	17638.04	2-yr	6817.71	6817.57	6817.42	0.58	0.04	15.27		26		2.98
WestTrib	17638.04	5-yr	6818.14	6817.94	6817.75	0.58	0.05	20.31		54		3.52
WestTrib	17638.04	10-yr	6818.48	6818.24	6818.03	0.59	0.05	24.35		86		3.91
WestTrib	17638.04	25-yr	6820.25	6819.67	6819.39	0.57	0.12	36.18		410		6.11
WestTrib	17638.04	50-yr	6821.18	6820.42	6820	0.53	0.15	39.5		670		7
WestTrib	17638.04	100-yr	6821.86	6820.98	6820.53	0.5	0.17	41.86		890		7.52
WestTrib	17616.3*	2-yr	6817.1	6817.03		0.1	0.02	20.02		26		2.08
WestTrib	17616.3*	5-yr	6817.51	6817.41		0.13	0.02	25.85		54		2.53
WestTrib	17616.3*	10-yr	6817.84	6817.71		0.16	0.03	30.27		86		2.91
WestTrib	17616.3*	25-yr	6819.56	6819.22		0.24	0.05	42.29		410		4.71
WestTrib	17616.3*	50-yr	6820.5	6820.04		0.24	0.06	45.81		670		5.43
WestTrib	17616.3*	100-yr	6821.18	6820.65		0.24	0.07	48.28		890		5.86

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	47452.25	2-yr		9		7410.2	7410.59	7410.57	7410.67	0.057877	2.38	3.78	19.64	0.96	1.76	0.69
WestTrib	47452.25	5-yr		21		7410.2	7410.74	7410.74	7410.85	0.059512	2.66	7.9	35.51	0.99	1.78	0.83
WestTrib	47452.25	10-yr		32		7410.2	7410.82	7410.82	7410.95	0.060295	2.96	10.83	41.98	1.03	1.72	0.97
WestTrib	47452.25	25-yr		58		7410.2	7410.96	7410.96	7411.13	0.056237	3.32	17.45	53.8	1.03	1.59	1.14
WestTrib	47452.25	50-yr		73		7410.2	7411.02	7411.02	7411.21	0.052171	3.42	21.35	59.69	1.01	1.52	1.16
WestTrib	47452.25	100-yr		89		7410.2	7411.08	7411.08	7411.28	0.051479	3.56	24.97	64.94	1.01	1.45	1.23
WestTrib	47423.5*	2-yr		9		7408.46	7408.83	7408.83	7408.92	0.06487	2.4	3.75	20.92	1	1.71	0.72
WestTrib	47423.5*	5-yr		21		7408.46	7408.97	7408.97	7409.08	0.064271	2.66	7.88	37.45	1.02	0.05	0.84
WestTrib	47423.5*	10-yr		32		7408.46	7409.05	7409.05	7409.17	0.059416	2.86	11.18	45.01	1.01	0.06	0.92
WestTrib	47423.5*	25-yr		58		7408.46	7409.18	7409.18	7409.34	0.054376	3.24	17.92	56.12	1.01	0.1	1.08
WestTrib	47423.5*	50-yr		73		7408.46	7409.24	7409.24	7409.42	0.05383	3.44	21.25	60.38	1.02	0.12	1.18
WestTrib	47423.5*	100-yr		89		7408.46	7409.3	7409.3	7409.49	0.049503	3.55	25.04	63.48	1	0.14	1.22
WestTrib	47394.8*	2-yr		9		7406.72	7407.1	7407.09	7407.16	0.05461	1.97	4.56	30.12	0.89	1.77	0.52
WestTrib	47394.8*	5-yr		21		7406.72	7408.11		7408.11	0.000148	0.32	66.51	81.27	0.06	0	0.01
WestTrib	47394.8*	10-yr		32		7406.72	7408.19		7408.2	0.000255	0.43	73.74	84.24	0.08	0	0.01
WestTrib	47394.8*	25-yr		58		7406.72	7408.33		7408.34	0.000553	0.68	85.71	89.84	0.12	0	0.03
WestTrib	47394.8*	50-yr		73		7406.72	7408.39		7408.4	0.000735	0.8	91.41	92.54	0.14	0.01	0.05
WestTrib	47394.8*	100-yr		89		7406.72	7408.45		7408.46	0.000934	0.92	96.86	95.05	0.16	0.01	0.06
WestTrib	47366.1*	2-yr		9		7404.98	7405.33	7405.33	7405.39	0.069848	2.11	4.27	30.72	1	0.04	0.61
WestTrib	47366.1*	5-yr	0.06	20.91	0.03	7404.98	7408.11		7408.11	0.000003	0.1	223.24	98.43	0.01	0	0
WestTrib	47366.1*	10-yr	0.11	31.84	0.05	7404.98	7408.19		7408.19	0.000007	0.14	231.86	98.92	0.02	0	0
WestTrib	47366.1*	25-yr	0.24	57.65	0.12	7404.98	7408.33		7408.33	0.000018	0.24	245.68	99.69	0.03	0	0
WestTrib	47366.1*	50-yr	0.32	72.52	0.16	7404.98	7408.4		7408.4	0.000027	0.3	251.92	100.04	0.03	0	0
WestTrib	47366.1*	100-yr	0.42	88.38	0.2	7404.98	7408.45		7408.46	0.000037	0.35	257.84	100.36	0.04	0	0.01
WestTrib	47337.4*	2-yr		9		7403.24	7404.34	7403.55	7404.34	0.000077	0.21	43.26	60.77	0.04	0	0
WestTrib	47337.4*	5-yr	0.2	20.69	0.11	7403.24	7408.11	7403.66	7408.11	0.000001	0.06	371.79	98.63	0.01	0	0
WestTrib	47337.4*	10-yr	0.32	31.51	0.17	7403.24	7408.19	7403.74	7408.19	0.000001	0.09	380.48	99.03	0.01	0	0
WestTrib	47337.4*	25-yr	0.63	57.04	0.33	7403.24	7408.33	7403.87	7408.33	0.000004	0.15	394.25	99.67	0.01	0	0
WestTrib	47337.4*	50-yr	0.81	71.76	0.43	7403.24	7408.4	7403.92	7408.4	0.000006	0.19	400.54	99.95	0.02	0	0
WestTrib	47337.4*	100-yr	1.02	87.48	0.5	7403.24	7408.45	7403.99	7408.46	0.000008	0.23	406.41	100.93	0.02	0	0
WestTrib	47308.71	2-yr		9		7401.5	7404.34	7401.82	7404.34	0.000008	0.16	56.79	82.41	0.02		0
WestTrib	47308.71	5-yr	0.33	20.4	0.27	7401.5	7408.11	7402.02	7408.11	0	0.04	532.04	153.26	0		0
WestTrib	47308.71	10-yr	0.52	31	0.48	7401.5	7408.19	7402.12	7408.19	0	0.07	545.54	154.06	0.01		0
WestTrib	47308.71	25-yr	0.97	55.93	1.1	7401.5	7408.33	7402.31	7408.33	0.000001	0.12	567.07	155.33	0.01		0
WestTrib	47308.71	50-yr	1.24	70.24	1.52	7401.5	7408.4	7402.41	7408.4	0.000002	0.14	576.79	155.9	0.01		0
WestTrib	47308.71	100-yr	1.54	85.46	2.01	7401.5	7408.45	7402.5	7408.45	0.000003	0.17	585.94	156.43	0.02		0

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	47262		Culvert													
WestTrib	47224.28	2-yr		9		7400.63	7401.17	7401.17	7401.3	0.051606	2.85	3.16	11.44	0.96	7.75	0.88
WestTrib	47224.28	5-yr		21		7400.63	7401.39	7401.39	7401.57	0.049322	3.46	6.06	15.88	0.99	6.9	1.17
WestTrib	47224.28	10-yr		32		7400.63	7401.51	7401.51	7401.75	0.050153	3.87	8.27	18.55	1.02	6.76	1.39
WestTrib	47224.28	25-yr		58		7400.63	7401.78	7401.78	7402.05	0.042725	4.12	14.07	25.48	0.98	6.21	1.47
WestTrib	47224.28	50-yr		73		7400.63	7401.89	7401.89	7402.18	0.042069	4.25	17.16	29.32	0.98	6.01	1.53
WestTrib	47224.28	100-yr		89		7400.63	7401.99	7401.99	7402.29	0.040745	4.43	20.11	32.57	0.98	5.93	1.61
WestTrib	47079.43	2-yr		15		7392.78	7393.38	7393.38	7393.56	0.054487	3.34	4.5	13.41	1.02		1.13
WestTrib	47079.43	5-yr		37		7392.78	7393.68	7393.68	7393.93	0.046548	3.99	9.27	18.78	1	4.58	1.43
WestTrib	47079.43	10-yr		57		7392.78	7393.87	7393.87	7394.16	0.044693	4.32	13.2	23.02	1.01	4.82	1.59
WestTrib	47079.43	25-yr		110		7392.78	7394.21	7394.21	7394.58	0.042686	4.84	22.75	32.36	1.02	5.03	1.86
WestTrib	47079.43	50-yr		140		7392.78	7394.36	7394.36	7394.75	0.040828	5.01	27.94	36.45	1.01	5.01	1.94
WestTrib	47079.43	100-yr		170		7392.78	7394.48	7394.48	7394.91	0.040699	5.23	32.51	39.7	1.02	5.18	2.07
WestTrib	46818.78	2-yr		15		7384.39	7384.93	7384.93	7385.06	0.059518	2.95	5.09	19.56	1.02		0.96
WestTrib	46818.78	5-yr		37		7384.39	7385.44	7385.16	7385.5	0.008998	1.96	18.89	32.54	0.45	7.88	0.33
WestTrib	46818.78	10-yr		57		7384.39	7385.6	7385.3	7385.69	0.009871	2.33	24.49	34.87	0.49	7.98	0.43
WestTrib	46818.78	25-yr		110		7384.39	7385.95		7386.08	0.010714	2.94	37.37	39.75	0.54	8.14	0.63
WestTrib	46818.78	50-yr		140		7384.39	7386.11		7386.27	0.010899	3.19	43.94	42.03	0.55	8.22	0.71
WestTrib	46818.78	100-yr		170		7384.39	7386.24		7386.42	0.011475	3.44	49.43	43.81	0.57	8.3	0.8
WestTrib	46418.78	2-yr		12.46	2.54	7377.22	7377.41	7377.41	7377.48	0.076519	2.18	8.01	64.73	1.02	6.46	0.59
WestTrib	46418.78	5-yr		29.54	7.46	7377.22	7377.51	7377.51	7377.63	0.072436	2.97	14.7	71.06	1.06	6.96	0.94
WestTrib	46418.78	10-yr	0.02	44.23	12.75	7377.22	7377.6	7377.6	7377.73	0.062682	3.17	21.23	84.91	1.03	6.89	0.98
WestTrib	46418.78	25-yr	1.15	83.51	25.34	7377.22	7377.75	7377.75	7377.94	0.052411	3.88	34.98	95.15	1.02	7	1.2
WestTrib	46418.78	50-yr	2.11	105.15	32.74	7377.22	7377.81	7377.81	7378.04	0.052187	4.25	41.24	99	1.05	7.12	1.36
WestTrib	46418.78	100-yr	3.38	126.17	40.46	7377.22	7377.88	7377.88	7378.13	0.04812	4.46	48.4	103.23	1.03	7.01	1.41
WestTrib	46207.62	2-yr		15		7367.84	7368.73	7368.56	7368.8	0.016352	2.2	6.81	15.33	0.58	5.36	0.45
WestTrib	46207.62	5-yr		37		7367.84	7369.06	7368.86	7369.19	0.018737	2.9	12.74	20.96	0.66	5.59	0.71
WestTrib	46207.62	10-yr		57		7367.84	7369.25	7369.06	7369.42	0.019939	3.3	17.25	24.51	0.69	5.73	0.87
WestTrib	46207.62	25-yr		110		7367.84	7369.59	7369.41	7369.86	0.022804	4.17	26.35	29.15	0.77	5.96	1.28
WestTrib	46207.62	50-yr	0.02	139.98		7367.84	7369.74	7369.57	7370.06	0.023527	4.57	30.69	31.09	0.81	6.06	1.44
WestTrib	46207.62	100-yr	0.13	169.85	0.02	7367.84	7369.85	7369.71	7370.24	0.024196	4.98	34.36	32.66	0.85	6.14	1.58
WestTrib	46026.9	2-yr		15		7363.08	7363.37	7363.37	7363.44	0.069538	2.12	7.06	50.05	1	0.03	0.61
WestTrib	46026.9	5-yr		37		7363.08	7363.49	7363.49	7363.6	0.06019	2.66	13.92	63.22	1	0.07	0.83
WestTrib	46026.9	10-yr		57		7363.08	7363.57	7363.57	7363.7	0.057661	2.96	19.23	71.76	1.01	0.1	0.96
WestTrib	46026.9	25-yr		110		7363.08	7363.73	7363.73	7363.91	0.051226	3.42	32.18	88.76	1	0.21	1.16
WestTrib	46026.9	50-yr		140		7363.08	7363.8	7363.8	7364	0.050828	3.6	38.89	98.66	1.01	0.27	1.25

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	46026.9	100-yr		170		7363.08	7363.86	7363.86	7364.08	0.05026	3.8	44.7	103.55	1.02	0.33	1.35
WestTrib	45892.82	2-yr	0.02	14.93	0.04	7359.67	7362.13		7362.13	0.000014	0.15	104.12	74.98	0.02	0	0
WestTrib	45892.82	5-yr	0.08	36.76	0.16	7359.67	7362.24		7362.25	0.000066	0.34	112.57	76.74	0.05	0	0.01
WestTrib	45892.82	10-yr	0.16	56.53	0.3	7359.67	7362.33		7362.33	0.000132	0.49	119.18	78.09	0.07	0	0.01
WestTrib	45892.82	25-yr	0.49	108.63	0.88	7359.67	7362.51		7362.52	0.00035	0.86	133.67	80.97	0.12	0.01	0.04
WestTrib	45892.82	50-yr	0.74	137.95	1.31	7359.67	7362.6		7362.61	0.000488	1.04	140.69	82.33	0.14	0.01	0.05
WestTrib	45892.82	100-yr	1.04	167.16	1.81	7359.67	7362.67		7362.7	0.000631	1.21	147.08	83.55	0.16	0.01	0.07
WestTrib	45796.67	2-yr	0.82	12.75	1.43	7355.67	7362.13	7356.68	7362.13	0	0.05	392.02	138.28	0		0
WestTrib	45796.67	5-yr	2.13	31.22	3.65	7355.67	7362.25	7357	7362.25	0.000002	0.12	407.6	140.42	0.01		0
WestTrib	45796.67	10-yr	3.4	47.83	5.77	7355.67	7362.33	7357.17	7362.33	0.000005	0.18	419.67	142.06	0.02		0
WestTrib	45796.67	25-yr	7.06	91.22	11.72	7355.67	7362.51	7357.56	7362.52	0.000015	0.33	446.15	145.59	0.03		0
WestTrib	45796.67	50-yr	9.29	115.46	15.25	7355.67	7362.6	7357.7	7362.6	0.000023	0.4	458.94	147.26	0.04		0
WestTrib	45796.67	100-yr	11.6	139.52	18.88	7355.67	7362.68	7357.88	7362.68	0.000032	0.48	470.51	148.76	0.04		0.01
WestTrib	45766.17		Culvert													
WestTrib	45708.32	2-yr		15		7353.69	7354.49	7354.49	7354.7	0.051554	3.63	4.13	10.32	1.01	3.11	1.27
WestTrib	45708.32	5-yr		37		7353.69	7354.84	7354.84	7355.13	0.044878	4.32	8.57	14.87	1	3.38	1.59
WestTrib	45708.32	10-yr		57		7353.69	7355.24	7355.07	7355.45	0.022188	3.7	15.42	19.95	0.74	3.71	1.06
WestTrib	45708.32	25-yr		110		7353.69	7355.7	7355.47	7355.98	0.020141	4.23	26.01	25.53	0.74	3.61	1.26
WestTrib	45708.32	50-yr		140		7353.69	7355.88	7355.66	7356.2	0.020748	4.56	30.69	27.48	0.76	3.59	1.42
WestTrib	45708.32	100-yr		170		7353.69	7356.04	7355.82	7356.4	0.020983	4.82	35.3	29.36	0.77	3.53	1.55
WestTrib	45564.77	2-yr		24		7349.48	7350.81	7350.54	7350.92	0.014295	2.66	9.01	13.56	0.58	8.94	0.58
WestTrib	45564.77	5-yr		59		7349.48	7351.29	7351	7351.48	0.016797	3.54	16.65	18.44	0.66	9.21	0.93
WestTrib	45564.77	10-yr		89		7349.48	7351.41	7351.27	7351.75	0.028106	4.7	18.95	20.24	0.86	9.29	1.61
WestTrib	45564.77	25-yr		170		7349.48	7351.93	7351.82	7352.38	0.028695	5.36	31.7	28.32	0.89	9.54	1.97
WestTrib	45564.77	50-yr		210		7349.48	7352.14	7352.02	7352.61	0.027924	5.55	37.83	31.47	0.89	9.63	2.06
WestTrib	45564.77	100-yr		260		7349.48	7352.36	7352.22	7352.87	0.026889	5.73	45.34	34.94	0.89	9.71	2.14
WestTrib	45218.78	2-yr		24		7341.36	7341.85	7341.85	7341.98	0.060057	2.82	8.51	35.3	1.01		0.9
WestTrib	45218.78	5-yr	0.13	58.74	0.13	7341.36	7342.06	7342.06	7342.26	0.048485	3.67	16.39	44.11	1.06		1.12
WestTrib	45218.78	10-yr	2.01	86.29	0.7	7341.36	7342.28	7342.2	7342.46	0.025402	3.52	27.43	55.24	0.87	9.78	0.79
WestTrib	45218.78	25-yr	10.12	157.2	2.68	7341.36	7342.55	7342.48	7342.84	0.026255	4.52	44.1	68.69	0.96	9.75	1.05
WestTrib	45218.78	50-yr	15.91	190.21	3.89	7341.36	7342.64	7342.61	7342.99	0.027507	4.95	50.88	71.76	0.99	9.75	1.22
WestTrib	45218.78	100-yr	24.03	230.41	5.56	7341.36	7342.75	7342.74	7343.16	0.029133	5.44	58.45	74.43	1.03	9.76	1.43
WestTrib	44818.78	2-yr		24		7331.17	7331.74	7331.74	7331.93	0.051582	3.52	6.82	18.02	1.01		1.21
WestTrib	44818.78	5-yr		59		7331.17	7332.21	7332.06	7332.41	0.022494	3.55	16.61	23.15	0.74	8.2	1
WestTrib	44818.78	10-yr	0.05	88.95		7331.17	7332.43	7332.27	7332.69	0.023538	4.07	22.06	35.99	0.92	8.15	0.89

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	44818.78	25-yr	19.65	150.35		7331.17	7332.8	7332.78	7333.1	0.02267	4.67	47.94	82.6	1.02	7.94	0.82
WestTrib	44818.78	50-yr	34.56	175.44		7331.17	7332.94	7332.9	7333.25	0.021695	4.8	60.33	92.72	0.97	7.84	0.88
WestTrib	44818.78	100-yr	55.01	204.99		7331.17	7333.1	7333.02	7333.41	0.020603	4.91	76.22	107.91	0.93	7.75	0.91
WestTrib	44499.26	2-yr		24		7322.18	7323.41	7323.34	7323.63	0.035359	3.78	6.34	11.04	0.88	1.87	1.23
WestTrib	44499.26	5-yr		59		7322.18	7323.93	7323.81	7324.21	0.029476	4.28	13.8	17.55	0.85	2.01	1.41
WestTrib	44499.26	10-yr		89		7322.18	7324.22	7324.08	7324.54	0.02768	4.59	19.38	21.15	0.85	2.08	1.55
WestTrib	44499.26	25-yr		170		7322.18	7324.74	7324.61	7325.17	0.027265	5.27	32.24	28.38	0.87	2.24	1.9
WestTrib	44499.26	50-yr		210		7322.18	7324.93	7324.8	7325.41	0.027826	5.54	37.92	31.52	0.89	2.3	2.05
WestTrib	44499.26	100-yr		260		7322.18	7325.12	7325.03	7325.66	0.028804	5.87	44.32	34.72	0.92	2.37	2.26
WestTrib	44418.78	2-yr		24		7320.5	7321.67	7321.46	7321.76	0.015852	2.43	9.86	18.6	0.59	7.81	0.52
WestTrib	44418.78	5-yr		59		7320.5	7322.02	7321.84	7322.2	0.020796	3.36	17.54	24.97	0.71	7.99	0.9
WestTrib	44418.78	10-yr	0.11	88.89		7320.5	7322.22	7322.05	7322.46	0.02362	3.91	22.99	31.97	0.81	8.09	1.05
WestTrib	44418.78	25-yr	4.9	165.1		7320.5	7322.58	7322.51	7322.93	0.027835	4.84	38.3	53.24	0.99	8.22	1.24
WestTrib	44418.78	50-yr	10.02	199.98		7320.5	7322.71	7322.67	7323.1	0.028729	5.13	45.96	60.23	1.01	8.23	1.36
WestTrib	44418.78	100-yr	17.49	242.5	0.01	7320.5	7322.85	7322.83	7323.29	0.029387	5.47	54.77	67.62	1.04	8.27	1.48
WestTrib	44018.78	2-yr		24		7313.17	7313.89		7313.95	0.024605	1.96	12.27	45.06	0.66	7.43	0.42
WestTrib	44018.78	5-yr		59		7313.17	7314.13	7314	7314.21	0.019092	2.31	25.57	60.6	0.63	7.38	0.5
WestTrib	44018.78	10-yr		89		7313.17	7314.27	7314.1	7314.37	0.017359	2.6	34.29	63.42	0.62	7.37	0.58
WestTrib	44018.78	25-yr		170		7313.17	7314.57	7314.33	7314.72	0.015595	3.14	54.13	69.41	0.63	7.36	0.76
WestTrib	44018.78	50-yr		210		7313.17	7314.69		7314.86	0.015256	3.35	62.72	71.85	0.63	7.36	0.83
WestTrib	44018.78	100-yr		260		7313.17	7314.82		7315.02	0.015121	3.58	72.55	74.54	0.64	7.39	0.92
WestTrib	43618.78	2-yr		24		7305.88	7306.48	7306.33	7306.53	0.014607	1.83	13.09	35.83	0.53	3.88	0.33
WestTrib	43618.78	5-yr		59		7305.88	7306.73		7306.83	0.017836	2.51	23.55	46.93	0.62	3.96	0.56
WestTrib	43618.78	10-yr		89		7305.88	7306.88	7306.7	7307.01	0.019575	2.89	30.85	53.32	0.67	3.99	0.71
WestTrib	43618.78	25-yr	0.02	169.98		7305.88	7307.18		7307.36	0.022017	3.42	49.79	76.36	0.75	4.02	0.9
WestTrib	43618.78	50-yr	0.52	209.48		7305.88	7307.3		7307.5	0.022583	3.58	59.46	92.57	0.79	4.02	0.9
WestTrib	43618.78	100-yr	2.16	257.84		7305.88	7307.42		7307.63	0.023056	3.74	71.65	109.86	0.81	3.98	0.94
WestTrib	43453.91	2-yr		24		7301.97	7302.58	7302.55	7302.65	0.044163	2.13	11.27	56.45	0.84	2.1	0.55
WestTrib	43453.91	5-yr		59		7301.97	7302.75	7302.72	7302.87	0.03413	2.75	21.43	60.07	0.81	1.98	0.76
WestTrib	43453.91	10-yr		89		7301.97	7302.87	7302.8	7303.02	0.030636	3.11	28.66	61.86	0.8	1.93	0.88
WestTrib	43453.91	25-yr	0	169.96	0.04	7301.97	7303.12	7303.02	7303.35	0.027117	3.82	44.55	65.43	0.82	1.87	1.15
WestTrib	43453.91	50-yr	0.05	209.81	0.15	7301.97	7303.22	7303.12	7303.48	0.026254	4.12	51.24	66.78	0.83	1.85	1.25
WestTrib	43453.91	100-yr	0.22	259.39	0.39	7301.97	7303.34	7303.22	7303.64	0.025233	4.43	59.25	68.38	0.84	1.84	1.36
WestTrib	43386.36	2-yr		24		7299.45	7300.46	7300.35	7300.55	0.023122	2.31	10.38	27.95	0.67	5.66	0.53
WestTrib	43386.36	5-yr		59		7299.45	7300.74	7300.62	7300.88	0.025357	3.02	19.56	37.97	0.74	5.63	0.81
WestTrib	43386.36	10-yr		89		7299.45	7300.9	7300.78	7301.08	0.026691	3.42	26.03	43.58	0.78	5.61	0.98

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	43386.36	25-yr	0.02	169.87	0.11	7299.45	7301.19	7301.09	7301.47	0.028076	4.28	39.97	53.96	0.88	5.54	1.29
WestTrib	43386.36	50-yr	0.1	209.31	0.6	7299.45	7301.29	7301.21	7301.63	0.028471	4.67	45.77	57.94	0.92	5.5	1.39
WestTrib	43386.36	100-yr	0.27	257.83	1.89	7299.45	7301.4	7301.34	7301.81	0.029194	5.12	52.5	60.62	0.96	5.47	1.56
WestTrib	43218.78	2-yr		24		7294.2	7294.74	7294.74	7294.89	0.053834	3.12	7.69	25.18	1	4.54	1.02
WestTrib	43218.78	5-yr		59		7294.2	7294.99	7294.99	7295.24	0.046436	4.01	14.7	29.58	1	4.57	1.44
WestTrib	43218.78	10-yr		89		7294.2	7295.17	7295.17	7295.47	0.042954	4.45	20.01	32.51	1	4.53	1.65
WestTrib	43218.78	25-yr		170		7294.2	7295.52	7295.52	7295.94	0.039207	5.24	32.46	38.54	1.01	4.8	2.05
WestTrib	43218.78	50-yr		210		7294.2	7295.66	7295.66	7296.13	0.038086	5.52	38.05	40.83	1.01	4.83	2.21
WestTrib	43218.78	100-yr	0	260	0	7294.2	7295.81	7295.81	7296.34	0.036629	5.82	44.66	43.31	1.01	5	2.35
WestTrib	42818.78	2-yr		24		7285.58	7286.91		7286.95	0.004739	1.65	14.57	19.95	0.34	6.03	0.21
WestTrib	42818.78	5-yr		59		7285.58	7287.47		7287.54	0.004972	2.14	27.54	26.33	0.37	6.06	0.32
WestTrib	42818.78	10-yr		89		7285.58	7287.81		7287.9	0.005019	2.4	37.13	30.19	0.38	6.05	0.38
WestTrib	42818.78	25-yr		170		7285.58	7288.42		7288.56	0.005593	2.95	57.56	37.1	0.42	6.12	0.53
WestTrib	42818.78	50-yr		210		7285.58	7288.66		7288.82	0.005687	3.14	66.92	39.87	0.43	6.12	0.59
WestTrib	42818.78	100-yr		260		7285.58	7288.9		7289.08	0.006047	3.39	76.66	42.56	0.45	6.12	0.67
WestTrib	42418.78	2-yr		43		7279.67	7280.66	7280.66	7280.92	0.04723	4.04	10.64	21.42	1.01	8.26	1.46
WestTrib	42418.78	5-yr		110		7279.67	7281.11	7281.11	7281.49	0.041499	4.92	22.37	30.42	1.01	8.8	1.9
WestTrib	42418.78	10-yr		170		7279.67	7281.39	7281.39	7281.84	0.039464	5.42	31.39	35.56	1.02	9.15	2.16
WestTrib	42418.78	25-yr		310		7279.67	7281.88	7281.88	7282.43	0.03659	5.95	52.13	48.51	1.01	9.38	2.44
WestTrib	42418.78	50-yr		389.99	0.01	7279.67	7282.1	7282.1	7282.69	0.035103	6.19	63.01	54.93	1.02	9.35	2.5
WestTrib	42418.78	100-yr	0	479.25	0.75	7279.67	7282.3	7282.3	7282.95	0.032552	6.47	74.91	62.59	1.04	9.2	2.42
WestTrib	42018.78	2-yr		43		7267.87	7269.74	7269.32	7269.87	0.011442	2.98	14.45	15.49	0.54	5.1	0.65
WestTrib	42018.78	5-yr		110		7267.87	7270.45	7269.98	7270.69	0.013499	3.99	27.55	21.53	0.62	5.36	1.05
WestTrib	42018.78	10-yr		170		7267.87	7270.91	7270.39	7271.21	0.014782	4.35	39.05	28.82	0.66	5.49	1.22
WestTrib	42018.78	25-yr		310		7267.87	7271.59	7271.13	7271.97	0.016158	4.92	62.95	41.5	0.7	5.58	1.5
WestTrib	42018.78	50-yr		390		7267.87	7271.87	7271.43	7272.29	0.016522	5.19	75.17	46.67	0.72	5.57	1.63
WestTrib	42018.78	100-yr		480		7267.87	7272.13	7271.7	7272.59	0.016944	5.46	87.88	51.52	0.74	5.56	1.77
WestTrib	41774.8	2-yr		43		7263.58	7264.52	7264.52	7264.77	0.049342	3.99	10.79	22.86	1.02	1.03	1.45
WestTrib	41774.8	5-yr		110		7263.58	7264.94	7264.94	7265.34	0.041569	5.03	21.88	28.73	1.02	1.74	1.96
WestTrib	41774.8	10-yr		170		7263.58	7265.23	7265.23	7265.71	0.037917	5.61	30.32	31.53	1.01	2.05	2.26
WestTrib	41774.8	25-yr		310		7263.58	7265.73	7265.73	7266.39	0.034384	6.52	47.55	36.58	1.01	2.44	2.76
WestTrib	41774.8	50-yr		390		7263.58	7265.97	7265.97	7266.71	0.033144	6.89	56.61	38.98	1.01	2.58	2.97
WestTrib	41774.8	100-yr	0.06	479.94	0.01	7263.58	7266.2	7266.2	7267.03	0.031712	7.32	65.65	41.24	1.02	2.7	3.12
WestTrib	41539.1	2-yr		43		7260.77	7262.38		7262.4	0.001382	0.92	46.7	60.95	0.19	0.01	0.07
WestTrib	41539.1	5-yr		110		7260.77	7262.73		7262.77	0.002736	1.61	68.12	63.84	0.28	0.05	0.18
WestTrib	41539.1	10-yr		170		7260.77	7262.96		7263.03	0.003453	2.03	83.54	65.85	0.32	0.09	0.27

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	41539.1	25-yr		310		7260.77	7263.4		7263.52	0.004484	2.74	113.25	69.54	0.38	0.15	0.45
WestTrib	41539.1	50-yr		390		7260.77	7263.61		7263.76	0.004878	3.05	128.04	71.31	0.4	0.19	0.54
WestTrib	41539.1	100-yr		480		7260.77	7263.83		7264	0.005266	3.34	143.65	73.73	0.42	0.22	0.63
WestTrib	41465.66	2-yr	0.64	38.16	4.2	7257.5	7262.38	7258.93	7262.38	0.000058	0.47	115.09	63.38	0.06		0.01
WestTrib	41465.66	5-yr	3.11	94.57	12.33	7257.5	7262.7	7259.66	7262.71	0.000257	1.06	136.22	68.35	0.12		0.03
WestTrib	41465.66	10-yr	6.34	143.06	20.6	7257.5	7262.91	7260.08	7262.94	0.000483	1.51	151.12	71.64	0.17		0.06
WestTrib	41465.66	25-yr	16.38	250.42	43.2	7257.5	7263.29	7260.8	7263.36	0.001069	2.39	179.21	76.25	0.25		0.15
WestTrib	41465.66	50-yr	23.32	309.2	57.48	7257.5	7263.47	7261.09	7263.57	0.001415	2.83	192.82	78.15	0.29		0.21
WestTrib	41465.66	100-yr	31.95	373.73	74.32	7257.5	7263.64	7261.43	7263.78	0.001804	3.28	206.8	80.07	0.32		0.28
WestTrib	41441.59		Culvert													
WestTrib	41405.38	2-yr		43		7257.33	7258.27	7258.14	7258.44	0.026281	3.35	12.85	25.05	0.77	0.99	0.95
WestTrib	41405.38	5-yr		110		7257.33	7258.73	7258.6	7258.95	0.026345	3.78	29.09	41.35	0.79	0.96	1.14
WestTrib	41405.38	10-yr		170		7257.33	7258.96	7258.8	7259.25	0.025956	4.36	38.97	44.22	0.82	0.94	1.41
WestTrib	41405.38	25-yr		310		7257.33	7259.39	7259.26	7259.81	0.024835	5.23	59.29	49.6	0.84	0.92	1.83
WestTrib	41405.38	50-yr		390	0	7257.33	7259.6	7259.44	7260.08	0.024336	5.59	69.8	52.17	0.85	0.9	2.01
WestTrib	41405.38	100-yr		479.9	0.1	7257.33	7259.79	7259.64	7260.35	0.023897	5.99	80.27	54.6	0.87	0.89	2.17
WestTrib	41368.0*	2-yr		43		7256.12	7257.31		7257.46	0.025954	3.11	13.84	26.1	0.75	1.02	0.85
WestTrib	41368.0*	5-yr		110		7256.12	7257.75		7257.98	0.024963	3.86	28.53	37.9	0.78	0.99	1.16
WestTrib	41368.0*	10-yr		170		7256.12	7258		7258.31	0.024299	4.42	38.49	40.86	0.8	0.98	1.41
WestTrib	41368.0*	25-yr		310		7256.12	7258.46		7258.9	0.023914	5.32	58.25	46.18	0.84	0.94	1.86
WestTrib	41368.0*	50-yr		390		7256.12	7258.68		7259.18	0.023643	5.69	68.57	48.77	0.85	0.92	2.05
WestTrib	41368.0*	100-yr		479.99	0.01	7256.12	7258.89	7258.7	7259.46	0.023453	6.06	79.22	51.56	0.86	0.9	2.22
WestTrib	41330.7*	2-yr		43		7254.91	7256.26	7256.15	7256.43	0.028858	3.37	12.76	23.08	0.8	1.07	0.98
WestTrib	41330.7*	5-yr		110		7254.91	7256.72		7256.99	0.028202	4.17	26.36	34.11	0.84	0.99	1.35
WestTrib	41330.7*	10-yr		170		7254.91	7256.98	7256.86	7257.33	0.027958	4.8	35.43	36.92	0.86	0.97	1.66
WestTrib	41330.7*	25-yr		310		7254.91	7257.47		7257.96	0.026003	5.65	54.85	42.31	0.87	0.92	2.08
WestTrib	41330.7*	50-yr		390		7254.91	7257.7	7257.55	7258.26	0.025458	6.01	64.85	44.85	0.88	0.91	2.27
WestTrib	41330.7*	100-yr		480		7254.91	7257.94	7257.78	7258.56	0.024713	6.32	75.91	47.61	0.88	0.89	2.43
WestTrib	41293.4*	2-yr		43		7253.69	7255.18		7255.37	0.028162	3.54	12.15	20	0.8	1.11	1.05
WestTrib	41293.4*	5-yr		110		7253.69	7255.73		7256	0.025079	4.19	26.25	30.83	0.8	1.05	1.32
WestTrib	41293.4*	10-yr		170		7253.69	7256.03		7256.38	0.02389	4.73	35.97	34	0.81	1.01	1.56
WestTrib	41293.4*	25-yr		310		7253.69	7256.55		7257.04	0.023327	5.62	55.17	39.5	0.84	0.96	2.01
WestTrib	41293.4*	50-yr		390		7253.69	7256.8		7257.35	0.023165	5.99	65.06	42.05	0.85	0.94	2.21
WestTrib	41293.4*	100-yr		480		7253.69	7257.04	7256.84	7257.66	0.023193	6.36	75.45	44.63	0.86	0.92	2.41
WestTrib	41256.1*	2-yr		43		7252.48	7254.04	7253.94	7254.27	0.03109	3.88	11.09	17.04	0.85	1.11	1.24

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	41256.1*	5-yr		110		7252.48	7254.59	7254.51	7254.96	0.031078	4.85	22.66	24.95	0.9	1.03	1.73
WestTrib	41256.1*	10-yr		170		7252.48	7254.93	7254.84	7255.37	0.030111	5.34	31.81	29.66	0.91	0.97	1.98
WestTrib	41256.1*	25-yr		310		7252.48	7255.49	7255.38	7256.08	0.027826	6.19	50.1	35.3	0.92	0.88	2.42
WestTrib	41256.1*	50-yr		390		7252.48	7255.76	7255.64	7256.42	0.0268	6.51	59.86	37.96	0.91	0.84	2.59
WestTrib	41256.1*	100-yr		480		7252.48	7256.03	7255.9	7256.75	0.02556	6.79	70.73	40.72	0.91	0.8	2.72
WestTrib	41218.78	2-yr		43		7251.27	7252.93	7252.81	7253.17	0.028204	3.93	10.95	15.21	0.82	7.11	1.23
WestTrib	41218.78	5-yr		110		7251.27	7253.6	7253.41	7253.94	0.024178	4.67	23.55	22.58	0.81	6.92	1.53
WestTrib	41218.78	10-yr		170		7251.27	7254.01	7253.79	7254.4	0.022229	5.04	33.71	27.1	0.8	6.81	1.68
WestTrib	41218.78	25-yr		310		7251.27	7254.72	7254.39	7255.2	0.018931	5.57	55.65	34.19	0.77	6.74	1.88
WestTrib	41218.78	50-yr		390		7251.27	7255.07	7254.68	7255.58	0.017152	5.71	68.3	37.55	0.75	6.77	1.9
WestTrib	41218.78	100-yr		480		7251.27	7255.4	7254.95	7255.94	0.016345	5.92	81.03	40.68	0.74	6.81	1.99
WestTrib	40884.05	2-yr		43		7243.77	7245.86	7245.55	7246.07	0.016529	3.67	11.72	11.72	0.65	11.14	0.97
WestTrib	40884.05	5-yr		110		7243.77	7246.66	7246.32	7247.02	0.017885	4.76	23.1	16.63	0.71	11.63	1.46
WestTrib	40884.05	10-yr		170		7243.77	7247.16	7246.78	7247.59	0.018671	5.28	32.19	20.57	0.74	11.91	1.73
WestTrib	40884.05	25-yr	2.26	307.74		7243.77	7247.91	7247.64	7248.47	0.021378	6	53.04	35.48	0.86	12.27	1.91
WestTrib	40884.05	50-yr	5.27	384.73		7243.77	7248.14	7247.99	7248.8	0.024108	6.55	61.86	40.27	0.93	12.36	2.22
WestTrib	40884.05	100-yr	10.2	469.8		7243.77	7248.39	7248.31	7249.13	0.025814	7	72.22	45.26	0.97	12.44	2.48
WestTrib	40418.78	2-yr		43		7233.96	7234.77	7234.73	7234.93	0.037584	3.18	13.53	32.93	0.87	8	0.96
WestTrib	40418.78	5-yr		110		7233.96	7235.11	7235.07	7235.38	0.03719	4.21	26.14	41.38	0.93	7.45	1.46
WestTrib	40418.78	10-yr		170		7233.96	7235.33	7235.29	7235.68	0.037068	4.76	35.7	46.83	0.96	7.06	1.76
WestTrib	40418.78	25-yr		310		7233.96	7235.73	7235.69	7236.2	0.033161	5.45	56.84	55.92	0.95	6.35	2.09
WestTrib	40418.78	50-yr		390		7233.96	7235.94	7235.86	7236.44	0.029161	5.68	68.65	57.65	0.92	6.06	2.16
WestTrib	40418.78	100-yr		480		7233.96	7236.14	7236.04	7236.7	0.027473	5.99	80.07	59.28	0.91	5.86	2.3
WestTrib	40018.78	2-yr		68		7224.51	7226.42	7226.42	7226.93	0.014505	5.73	11.88	12.02	1.02	5.73	0.85
WestTrib	40018.78	5-yr		160		7224.51	7227.23	7227.23	7227.94	0.012809	6.75	23.7	17.07	1.01	5.2	1.06
WestTrib	40018.78	10-yr		250		7224.51	7227.79	7227.79	7228.62	0.011921	7.33	34.13	20.62	1	4.91	1.17
WestTrib	40018.78	25-yr		480		7224.51	7228.78	7228.78	7229.85	0.01089	8.3	57.8	27.05	1	4.64	1.38
WestTrib	40018.78	50-yr		610		7224.51	7229.2	7229.2	7230.39	0.01073	8.76	69.63	29.75	1.01	4.6	1.49
WestTrib	40018.78	100-yr		730		7224.51	7229.56	7229.56	7230.83	0.010388	9.05	80.69	32.06	1.01	4.53	1.56
WestTrib	39618.78	2-yr		68		7216.53	7218.35	7218.32	7218.71	0.013929	4.83	14.09	18.35	0.97	5.62	0.65
WestTrib	39618.78	5-yr		157.41	2.59	7216.53	7218.96	7218.96	7219.43	0.012816	5.55	30.88	35.53	1.04	5.13	0.68
WestTrib	39618.78	10-yr		242.04	7.96	7216.53	7219.33	7219.33	7219.89	0.012185	6.05	45.85	44.33	1.03	4.74	0.77
WestTrib	39618.78	25-yr		452.51	27.49	7216.53	7220	7220	7220.68	0.011744	6.8	81.63	63.07	1.03	3.76	0.93
WestTrib	39618.78	50-yr		570.37	39.63	7216.53	7220.26	7220.26	7221.03	0.011665	7.22	98.92	69.33	1.03	3.74	1.02
WestTrib	39618.78	100-yr	0	678.31	51.69	7216.53	7220.47	7220.47	7221.3	0.011639	7.56	114.04	74.31	1.04	3.66	1.09
WestTrib	39218.78	2-yr		68		7211.07	7212.58	7212.58	7213.09	0.014094	5.71	11.91	11.93	1.01	5.64	0.84

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	39218.78	5-yr		160		7211.07	7213.38	7213.38	7214.14	0.01269	6.96	22.99	15.65	1.01	5.01	1.1
WestTrib	39218.78	10-yr		249.73	0.27	7211.07	7213.96	7213.96	7214.86	0.011376	7.64	33.28	22.95	1.12	4.8	0.98
WestTrib	39218.78	25-yr	0.04	449.42	30.54	7211.07	7215.13	7215.13	7216.1	0.007574	8.18	79.08	54.9	1.16	3.72	0.67
WestTrib	39218.78	50-yr	0.35	549.63	60.03	7211.07	7215.49	7215.49	7216.59	0.007548	8.85	99.22	57.07	1.13	3.62	0.8
WestTrib	39218.78	100-yr	1.41	636.39	92.2	7211.07	7215.82	7215.82	7216.99	0.00725	9.28	119.37	67.49	1.15	3.45	0.78
WestTrib	38818.78	2-yr		68		7204.61	7206.1	7206.08	7206.51	0.013993	5.19	13.11	15.16	0.98	4.98	0.73
WestTrib	38818.78	5-yr		160		7204.61	7206.81	7206.78	7207.4	0.012134	6.19	25.86	20.54	0.97	5.12	0.91
WestTrib	38818.78	10-yr		250		7204.61	7207.25	7207.25	7208.01	0.012439	7	35.69	23.94	1.01	5.26	1.11
WestTrib	38818.78	25-yr		480	0	7204.61	7208.19	7208.19	7209.08	0.011531	7.56	63.45	36.1	1.01	4.75	1.22
WestTrib	38818.78	50-yr		609.87	0.13	7204.61	7208.51	7208.51	7209.53	0.0109	8.14	75.15	37.75	1.02	4.42	1.3
WestTrib	38818.78	100-yr	0.06	729.33	0.62	7204.61	7208.77	7208.77	7209.92	0.010415	8.62	85.4	39.52	1.03	4.2	1.35
WestTrib	38418.78	2-yr		68		7200.04	7201.24	7201.15	7201.54	0.010999	4.41	15.42	19.41	0.87	4.95	0.54
WestTrib	38418.78	5-yr		160		7200.04	7201.78	7201.78	7202.29	0.013386	5.71	28.01	27.76	1	5.08	0.83
WestTrib	38418.78	10-yr		250		7200.04	7202.22	7202.22	7202.75	0.013561	5.81	42.99	42.06	1.01	4.81	0.86
WestTrib	38418.78	25-yr	0.03	479.31	0.66	7200.04	7202.82	7202.82	7203.49	0.011913	6.6	74.06	65.2	1.09	4.26	0.84
WestTrib	38418.78	50-yr	0.23	605.11	4.66	7200.04	7203.07	7203.07	7203.83	0.010814	7.03	91.67	72.27	1.1	3.93	0.85
WestTrib	38418.78	100-yr	0.62	718.74	10.64	7200.04	7203.28	7203.28	7204.11	0.010119	7.39	107.06	73.67	1.07	3.78	0.91
WestTrib	38018.78	2-yr	1.08	66.1	0.82	7195.31	7196.32	7196.31	7196.6	0.013949	4.27	17.98	37	1.06	5.53	0.42
WestTrib	38018.78	5-yr	7.68	147.86	4.46	7195.31	7196.76	7196.76	7197.21	0.011998	5.63	36.9	50.08	1.11	5.11	0.55
WestTrib	38018.78	10-yr	18.44	221.67	9.89	7195.31	7197.09	7197.09	7197.66	0.010713	6.4	55.48	59.76	1.11	4.67	0.62
WestTrib	38018.78	25-yr	56.92	394.13	28.95	7195.31	7197.74	7197.74	7198.52	0.009554	7.78	99.55	76.08	1.09	4.36	0.78
WestTrib	38018.78	50-yr	83.58	484.01	42.42	7195.31	7198.05	7198.05	7198.91	0.008932	8.28	124.63	83.23	1.07	4.12	0.83
WestTrib	38018.78	100-yr	112.2	564.14	53.62	7195.31	7198.29	7198.29	7199.23	0.008819	8.77	144.85	87.48	1.06	4.07	0.91
WestTrib	37618.78	2-yr		68		7190.23	7190.9	7190.86	7191.08	0.013536	3.32	20.46	46.67	0.88	4.53	0.37
WestTrib	37618.78	5-yr		157.66	2.34	7190.23	7191.21	7191.21	7191.51	0.013404	4.46	39.63	84.38	1.14		0.39
WestTrib	37618.78	10-yr		237.96	12.04	7190.23	7191.43	7191.43	7191.81	0.012448	5.03	59.15	88.67	1.06	3.84	0.52
WestTrib	37618.78	25-yr	0.03	437.11	42.87	7190.23	7191.84	7191.84	7192.39	0.012103	6.21	96.52	94.79	1.04	4.39	0.77
WestTrib	37618.78	50-yr	0.25	548	61.75	7190.23	7192.03	7192.03	7192.67	0.011588	6.71	115.24	96.86	1.03	4.42	0.86
WestTrib	37618.78	100-yr	0.65	649.82	79.52	7190.23	7192.19	7192.19	7192.91	0.011465	7.16	130.6	98.54	1.04	4.52	0.95
WestTrib	37218.78	2-yr	0.1	58.65	9.25	7184.96	7186.34	7186.28	7186.55	0.009589	3.89	27.68	70.37	1.02	3.49	0.23
WestTrib	37218.78	5-yr	0.87	118.97	40.17	7184.96	7186.73	7186.7	7187.04	0.009492	5.15	65.65	130.11	1.11	3.56	0.3
WestTrib	37218.78	10-yr	1.99	157.16	90.85	7184.96	7187.03	7187.03	7187.32	0.007525	5.37	117.02	185.32	0.95	3.21	0.3
WestTrib	37218.78	25-yr	4.72	251.14	224.14	7184.96	7187.35	7187.35	7187.77	0.009817	7.01	176.27	189.2	0.95	3.13	0.57
WestTrib	37218.78	50-yr	6.56	297.87	305.57	7184.96	7187.51	7187.51	7187.97	0.010296	7.61	206.63	191.16	0.93	3.21	0.69
WestTrib	37218.78	100-yr	8.38	340.39	381.23	7184.96	7187.63	7187.63	7188.15	0.010866	8.16	230.62	192.7	0.93	3.3	0.81
WestTrib	36914.66	2-yr		48.87	19.13	7182.01	7182.91	7182.83	7183.05	0.013791	3.34	29.06	65.23	0.77	6.3	0.38

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	36914.66	5-yr	0.34	117.4	42.26	7182.01	7183.2	7183.14	7183.47	0.014692	4.78	50.21	79.8	0.93	6.22	0.58
WestTrib	36914.66	10-yr	2.34	181.35	66.32	7182.01	7183.4	7183.38	7183.79	0.015778	5.82	66.95	93.88	1.06	6.17	0.7
WestTrib	36914.66	25-yr	33.31	324.18	122.51	7182.01	7183.93	7183.93	7184.4	0.010761	6.54	139.96	185.19	1.12	4.95	0.51
WestTrib	36914.66	50-yr	66.61	393.33	150.06	7182.01	7184.11	7184.11	7184.63	0.010756	7.07	173.34	191.38	1.08	4.88	0.61
WestTrib	36914.66	100-yr	100.7	454.61	174.73	7182.01	7184.25	7184.25	7184.82	0.010821	7.5	201.17	196.39	1.06	4.78	0.69
WestTrib	36496.14	2-yr		85		7175.72	7176.48	7176.48	7176.75	0.016117	4.23	20.09	36.21	1	2.33	0.56
WestTrib	36496.14	5-yr		190		7175.72	7176.9	7176.9	7177.25	0.014985	4.79	39.69	56.26	1	2.36	0.66
WestTrib	36496.14	10-yr		300		7175.72	7177.15	7177.15	7177.62	0.013945	5.52	54.33	58.86	1.01	2.32	0.8
WestTrib	36496.14	25-yr		570		7175.72	7177.71	7177.71	7178.31	0.012766	6.24	91.35	77.06	1.01	2.13	0.94
WestTrib	36496.14	50-yr		730		7175.72	7177.97	7177.97	7178.62	0.012458	6.46	113.08	89.02	1.01	2.05	0.98
WestTrib	36496.14	100-yr		920		7175.72	7178.22	7178.22	7178.93	0.011882	6.73	136.61	97.42	1	1.93	1.03
WestTrib	36328.17	2-yr		85		7173.37	7173.82	7173.76	7173.9	0.011486	2.29	37.12	130.98	0.76	2.97	0.2
WestTrib	36328.17	5-yr		190		7173.37	7174	7173.95	7174.14	0.012574	3.04	62.41	153.77	0.84	2.85	0.32
WestTrib	36328.17	10-yr		300		7173.37	7174.15	7174.1	7174.33	0.012728	3.43	87.42	181.61	0.87	2.73	0.38
WestTrib	36328.17	25-yr		570		7173.37	7174.41	7174.34	7174.67	0.011494	4.14	137.76	200.21	0.88	2.46	0.49
WestTrib	36328.17	50-yr		730		7173.37	7174.53	7174.46	7174.84	0.010887	4.48	162.92	201.66	0.88	2.32	0.55
WestTrib	36328.17	100-yr		920		7173.37	7174.68	7174.59	7175.03	0.010014	4.79	192.21	202.35	0.87	2.18	0.59
WestTrib	36128.98	2-yr		85		7170.02	7170.75	7170.75	7170.93	0.019969	3.39	25.06	74.17	1.03	1.6	0.42
WestTrib	36128.98	5-yr		190		7170.02	7171	7171	7171.29	0.016212	4.35	43.71	76.21	1.01	1.5	0.58
WestTrib	36128.98	10-yr		300		7170.02	7171.2	7171.2	7171.6	0.014614	5.02	59.8	77.72	1.01	1.48	0.7
WestTrib	36128.98	25-yr		570		7170.02	7171.62	7171.62	7172.21	0.012919	6.15	92.63	80.7	1.01	1.39	0.92
WestTrib	36128.98	50-yr		730		7170.02	7171.84	7171.84	7172.52	0.012131	6.61	110.38	82.27	1.01	1.33	1.01
WestTrib	36128.98	100-yr		920		7170.02	7172.07	7172.07	7172.85	0.011515	7.08	129.9	83.96	1	1.28	1.11
WestTrib	36018.78	2-yr		85		7168.05	7168.76	7168.68	7168.89	0.010817	2.91	29.22	96.82	0.79	0.95	0.29
WestTrib	36018.78	5-yr		190		7168.05	7168.98	7168.92	7169.16	0.011111	3.39	56.09	107.11	0.82	0.9	0.36
WestTrib	36018.78	10-yr		300		7168.05	7169.14	7169.08	7169.4	0.011782	4.12	72.89	108.52	0.89	0.88	0.49
WestTrib	36018.78	25-yr		570		7168.05	7169.47	7169.42	7169.89	0.011367	5.17	110.28	113.5	0.92	0.82	0.69
WestTrib	36018.78	50-yr		730		7168.05	7169.66	7169.59	7170.14	0.011023	5.56	131.24	118.18	0.93	0.79	0.76
WestTrib	36018.78	100-yr		920		7168.05	7169.86	7169.8	7170.4	0.010442	5.88	156.49	124.49	0.92	0.75	0.82
WestTrib	35953.11	2-yr		85		7167.23	7167.78	7167.78	7167.94	0.020322	3.22	26.44	85.88	1.02	7.1	0.39
WestTrib	35953.11	5-yr		190		7167.23	7168	7168	7168.26	0.017177	4.08	46.52	93	1.02	6.04	0.54
WestTrib	35953.11	10-yr		300		7167.23	7168.19	7168.19	7168.53	0.014945	4.68	64.1	94.02	1	5.42	0.63
WestTrib	35953.11	25-yr		570		7167.23	7168.55	7168.55	7169.07	0.013325	5.79	98.39	95.99	1.01	4.8	0.85
WestTrib	35953.11	50-yr		730		7167.23	7168.74	7168.74	7169.35	0.012673	6.27	116.39	97.01	1.01	4.54	0.94
WestTrib	35953.11	100-yr		920		7167.23	7168.94	7168.94	7169.65	0.012016	6.74	136.54	98.14	1.01	4.34	1.04
WestTrib	35609.06	2-yr		85		7160.21	7160.59	7160.59	7160.7	0.020896	2.73	31.1	131.84	0.99	0.32	0.31

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	35609.06	5-yr		190		7160.21	7160.75	7160.75	7160.95	0.017852	3.57	53.25	134.4	1	0.3	0.44
WestTrib	35609.06	10-yr		300		7160.21	7160.89	7160.89	7161.16	0.016524	4.17	71.89	135.31	1.01	0.31	0.55
WestTrib	35609.06	25-yr		570		7160.21	7161.18	7161.18	7161.59	0.014403	5.15	110.74	137.19	1.01	0.32	0.72
WestTrib	35609.06	50-yr		730		7160.21	7161.33	7161.33	7161.81	0.013498	5.56	131.38	138.18	1	0.33	0.8
WestTrib	35609.06	100-yr		920		7160.21	7161.48	7161.48	7162.04	0.013021	6.01	153.05	139.21	1.01	0.33	0.89
WestTrib	35576.41	2-yr		85		7156.6	7157.23	7157.08	7157.29	0.005196	1.94	43.89	109.84	0.54	2.99	0.13
WestTrib	35576.41	5-yr		190		7156.6	7157.51		7157.61	0.004814	2.48	76.68	125.2	0.56	3	0.18
WestTrib	35576.41	10-yr		300		7156.6	7157.71		7157.84	0.004976	2.94	102.08	132.26	0.59	3	0.24
WestTrib	35576.41	25-yr		570		7156.6	7158.05		7158.28	0.005364	3.85	147.96	135.04	0.65	2.99	0.37
WestTrib	35576.41	50-yr		730		7156.6	7158.22		7158.5	0.005561	4.28	170.49	136.39	0.67	2.98	0.43
WestTrib	35576.41	100-yr		920		7156.6	7158.4	7158.08	7158.75	0.005671	4.7	195.6	137.88	0.7	2.97	0.5
WestTrib	35218.78	2-yr		85		7153.3	7154.1	7154.08	7154.31	0.015368	3.63	23.44	51.5	0.95	2.99	0.44
WestTrib	35218.78	5-yr		190		7153.3	7154.4	7154.4	7154.62	0.017864	3.77	50.35	116.82	1.01	2.93	0.48
WestTrib	35218.78	10-yr		300		7153.3	7154.56	7154.56	7154.85	0.016808	4.32	69.48	125.79	1.02	2.67	0.58
WestTrib	35218.78	25-yr		570		7153.3	7154.85	7154.85	7155.29	0.014524	5.31	107.34	127.62	1.02	2.33	0.76
WestTrib	35218.78	50-yr		730		7153.3	7155.01	7155.01	7155.52	0.013527	5.72	127.61	128.6	1.01	2.21	0.84
WestTrib	35218.78	100-yr		920		7153.3	7155.18	7155.18	7155.77	0.013055	6.19	148.66	129.6	1.02	2.11	0.93
WestTrib	35054.37	2-yr		85		7150.81	7151.19	7151.19	7151.32	0.021545	2.89	29.46	117.75	1.02	0.36	0.34
WestTrib	35054.37	5-yr		190		7150.81	7151.37	7151.37	7151.59	0.017727	3.72	51.12	120.71	1.01	0.34	0.47
WestTrib	35054.37	10-yr		300		7150.81	7151.53	7151.53	7151.82	0.015705	4.29	69.93	121.53	1	0.33	0.56
WestTrib	35054.37	25-yr		570		7150.81	7151.84	7151.84	7152.27	0.013829	5.31	107.39	123.15	1	0.32	0.75
WestTrib	35054.37	50-yr		730		7150.81	7151.99	7151.99	7152.51	0.0133	5.78	126.39	123.96	1.01	0.33	0.84
WestTrib	35054.37	100-yr		920		7150.81	7152.17	7152.17	7152.76	0.012558	6.21	148.2	124.89	1	0.33	0.93
WestTrib	35025.09	2-yr		85		7147.41	7147.98		7148.05	0.00746	2.19	38.87	106.28	0.64	2.28	0.17
WestTrib	35025.09	5-yr		190		7147.41	7148.22		7148.35	0.007311	2.91	65.39	114.99	0.68	2.14	0.26
WestTrib	35025.09	10-yr		300		7147.41	7148.41		7148.59	0.007117	3.38	88.84	122.17	0.7	2.04	0.32
WestTrib	35025.09	25-yr		570		7147.41	7148.78		7149.06	0.00683	4.2	135.62	130.14	0.73	1.97	0.44
WestTrib	35025.09	50-yr		730		7147.41	7148.94		7149.28	0.00697	4.65	156.86	131.13	0.75	1.97	0.52
WestTrib	35025.09	100-yr		920		7147.41	7149.11		7149.52	0.007242	5.15	178.71	132.1	0.78	1.99	0.61
WestTrib	34818.78	2-yr		85		7144.87	7145.55	7145.55	7145.77	0.017741	3.83	22.21	50.16	1.01	1.15	0.49
WestTrib	34818.78	5-yr		190		7144.87	7145.88	7145.88	7146.21	0.015436	4.65	40.88	62.15	1.01	1.07	0.63
WestTrib	34818.78	10-yr		300		7144.87	7146.14	7146.14	7146.55	0.014216	5.15	58.31	71.54	1	1.03	0.72
WestTrib	34818.78	25-yr		570		7144.87	7146.67	7146.67	7147.09	0.013989	5.19	109.89	131.65	1	1.03	0.73
WestTrib	34818.78	50-yr		730		7144.87	7146.83	7146.83	7147.31	0.013707	5.52	132.15	141.84	1.01	1.05	0.8
WestTrib	34818.78	100-yr		920		7144.87	7146.99	7146.99	7147.54	0.013262	5.92	155.29	146.36	1.01	1.11	0.88
WestTrib	34639.33	2-yr		85		7142.45	7143.03		7143.06	0.003059	1.46	58.19	149.41	0.41	1.39	0.07

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	34639.33	5-yr		190		7142.45	7143.3		7143.35	0.002792	1.9	100.21	162.42	0.43	1.33	0.11
WestTrib	34639.33	10-yr		300		7142.45	7143.52		7143.59	0.002649	2.18	137.32	172.95	0.43	1.27	0.13
WestTrib	34639.33	25-yr		570		7142.45	7143.9		7144.02	0.002734	2.75	207.41	189.53	0.46	1.14	0.19
WestTrib	34639.33	50-yr		730		7142.45	7144.09		7144.23	0.002781	3	243.31	197.42	0.48	1.12	0.21
WestTrib	34639.33	100-yr		920		7142.45	7144.25		7144.42	0.003027	3.34	275.68	203.16	0.5	1.08	0.26
WestTrib	34399.04	2-yr	0.05	98.65	0.3	7140.93	7141.5	7141.45	7141.66	0.0123	3.2	31.79	81.61	0.9	1.75	0.3
WestTrib	34399.04	5-yr	0.52	206.1	3.38	7140.93	7141.73	7141.72	7142.03	0.0132	4.39	52.01	92.28	1.02	1.77	0.46
WestTrib	34399.04	10-yr	1.46	309.91	8.62	7140.93	7141.93	7141.93	7142.32	0.013033	5.14	70.55	102.13	1.07	1.7	0.56
WestTrib	34399.04	25-yr	9.29	542.95	47.76	7140.93	7142.42	7142.42	7142.88	0.008837	5.73	155.89	261.97	1.25	1.19	0.33
WestTrib	34399.04	50-yr	18.66	656.2	85.14	7140.93	7142.62	7142.62	7143.11	0.008247	6.05	211.87	312.05	1.21	1.12	0.35
WestTrib	34399.04	100-yr	34	772.21	153.79	7140.93	7142.89	7142.89	7143.35	0.00668	6.06	310.19	398.43	1.09	0.94	0.32
WestTrib	34320.25	2-yr		99		7139.06	7139.71	7139.71	7139.91	0.05162	3.61	27.44	70.24	1.02	3.04	1.26
WestTrib	34320.25	5-yr		210		7139.06	7139.98	7139.98	7140.26	0.046122	4.23	49.69	92.17	1.01	3.26	1.55
WestTrib	34320.25	10-yr		318.88	1.12	7139.06	7140.2	7140.2	7140.51	0.040656	4.5	72.5	128.8	1.05	3.55	1.43
WestTrib	34320.25	25-yr	1.38	569.24	29.37	7139.06	7140.55	7140.55	7140.95	0.030317	5.18	133.95	207.55	1.11	3.51	1.22
WestTrib	34320.25	50-yr	3.48	698.23	58.29	7139.06	7140.7	7140.7	7141.14	0.028618	5.53	167.04	231.41	1.1	3.59	1.29
WestTrib	34320.25	100-yr	7.26	848.34	104.39	7139.06	7140.87	7140.87	7141.35	0.026744	5.85	210.73	294.19	1.15	3.42	1.2
WestTrib	34018.33	2-yr	16.18	77.37	5.45	7132.14	7133.93		7133.97	0.004062	1.73	78.39	141.67	0.37	2.89	0.14
WestTrib	34018.33	5-yr	40.89	145.24	23.88	7132.14	7134.29	7133.8	7134.35	0.004565	2.31	137.41	184.78	0.41	3.1	0.21
WestTrib	34018.33	10-yr	67.11	206.23	46.66	7132.14	7134.51	7133.98	7134.6	0.005344	2.79	180.51	207.55	0.44	3.21	0.29
WestTrib	34018.33	25-yr	137.8	340.44	121.8	7132.14	7134.97		7135.09	0.005889	3.51	304.09	339.88	0.52	3.48	0.33
WestTrib	34018.33	50-yr	176.6	405.76	177.61	7132.14	7135.15		7135.28	0.006224	3.82	370.08	403.2	0.54	3.57	0.36
WestTrib	34018.33	100-yr	227.5	477.89	254.6	7132.14	7135.39		7135.53	0.005968	4.03	481.96	500.86	0.54	3.69	0.36
WestTrib	33792.91	2-yr	0.19	90.56	8.25	7130.62	7131	7131	7131.09	0.064634	2.54	42.8	248.91	1.04	4.09	0.69
WestTrib	33792.91	5-yr	0.48	186.27	23.25	7130.62	7131.12	7131.12	7131.26	0.057811	3.22	77.31	334.12	1.12	4.48	0.83
WestTrib	33792.91	10-yr	0.81	266.27	52.92	7130.62	7131.23	7131.23	7131.38	0.041293	3.34	121.13	399.87	0.99	4.08	0.78
WestTrib	33792.91	25-yr	1.72	459.44	138.83	7130.62	7131.39	7131.39	7131.61	0.042632	4.18	184.57	412.1	0.99	4.34	1.19
WestTrib	33792.91	50-yr	2.35	565.65	192	7130.62	7131.47	7131.47	7131.72	0.040251	4.45	222.63	463.95	1.01	4.71	1.21
WestTrib	33792.91	100-yr	3.06	704.99	251.95	7130.62	7131.52	7131.52	7131.85	0.050539	5.19	243.13	479.54	1.14	4.33	1.6
WestTrib	33635.33	2-yr		99		7122.46	7123.22		7123.3	0.013903	2.36	42	76.08	0.56	7.65	0.48
WestTrib	33635.33	5-yr		210		7122.46	7123.51	7123.29	7123.67	0.016829	3.13	67.02	91.42	0.64	7.48	0.77
WestTrib	33635.33	10-yr	0.2	319.8		7122.46	7123.72	7123.51	7123.93	0.017704	3.72	86.32	98.26	0.7	7.34	0.97
WestTrib	33635.33	25-yr	4.08	594.7	1.22	7122.46	7124.1	7123.89	7124.47	0.01915	4.88	126.89	114.55	0.81	7.2	1.32
WestTrib	33635.33	50-yr	7.32	749.96	2.72	7122.46	7124.22	7124.08	7124.71	0.022869	5.65	140.49	119.53	0.91	7.19	1.68
WestTrib	33635.33	100-yr	18.76	931.71	9.53	7122.46	7124.56		7125.04	0.01713	5.65	183.82	133.97	0.84	7.3	1.47
WestTrib	33235.67	2-yr		99		7114.4	7115.45		7115.65	0.027893	3.59	27.58	44.76	0.81	7.81	1.07

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	33235.67	5-yr		210		7114.4	7115.91		7116.18	0.020879	4.2	49.96	51.44	0.75	7.74	1.26
WestTrib	33235.67	10-yr		320		7114.4	7116.26		7116.59	0.019024	4.66	68.62	56.33	0.74	7.7	1.44
WestTrib	33235.67	25-yr	26.68	562.68	10.64	7114.4	7116.83	7116.77	7117.27	0.016931	5.49	139.24	194.77	1.11	7.46	0.75
WestTrib	33235.67	50-yr	72.35	658.39	29.26	7114.4	7117.09	7116.98	7117.51	0.014465	5.57	191.62	211.57	0.96	7.28	0.82
WestTrib	33235.67	100-yr	105.2	812.5	42.26	7114.4	7117.16	7117.16	7117.74	0.019455	6.62	207.5	218.36	1.11	6	1.15
WestTrib	32862.6	2-yr		99		7106.4	7107.66		7107.84	0.016267	3.43	28.86	33.25	0.65	8.48	0.87
WestTrib	32862.6	5-yr		210		7106.4	7108.1		7108.44	0.020592	4.67	44.94	38.8	0.77	8.67	1.47
WestTrib	32862.6	10-yr		320		7106.4	7108.43		7108.9	0.022396	5.5	58.23	41.93	0.82	8.85	1.92
WestTrib	32862.6	25-yr	0.01	599.09	0.89	7106.4	7109.06	7108.92	7109.81	0.023792	6.94	87.52	55.36	0.97	9.34	2.32
WestTrib	32862.6	50-yr	0.17	755.71	4.12	7106.4	7109.26	7109.26	7110.23	0.027244	7.94	99.15	64.03	1.12	9.51	2.61
WestTrib	32862.6	100-yr	2.69	870.4	86.91	7106.4	7109.97	7109.97	7110.63	0.013504	6.8	200.71	214.44	1.18	6.54	0.79
WestTrib	32439.34	2-yr	10.18	88.82		7098.51	7099.21		7099.36	0.025221	3.29	33.81	65.16	0.77	8.22	0.82
WestTrib	32439.34	5-yr	35.06	174.94		7098.51	7099.57	7099.45	7099.77	0.020192	3.96	70.1	129.94	0.88	8.37	0.68
WestTrib	32439.34	10-yr	74.16	245.84	0	7098.51	7099.8	7099.68	7100.04	0.019294	4.42	103.95	164.81	0.88	8.47	0.76
WestTrib	32439.34	25-yr	188.9	400.14	10.93	7098.51	7100.16	7100.16	7100.48	0.019975	5.43	192.74	317.68	1.03	8.31	0.76
WestTrib	32439.34	50-yr	271.6	456.06	32.38	7098.51	7100.33	7100.29	7100.64	0.01814	5.56	252.11	389.4	0.98	8.52	0.73
WestTrib	32439.34	100-yr	368.2	521.65	70.13	7098.51	7100.49	7100.43	7100.8	0.017271	5.78	320.93	448.25	0.93	8.5	0.77
WestTrib	32034.26	2-yr	2.87	94.54	1.59	7090.35	7091.05		7091.14	0.016604	2.39	47.26	144.94	0.72	5.92	0.34
WestTrib	32034.26	5-yr	19.16	182.43	8.4	7090.35	7091.25	7091.19	7091.39	0.021068	3.27	84.65	222.1	0.88	5.96	0.5
WestTrib	32034.26	10-yr	45.76	257.37	16.87	7090.35	7091.38	7091.33	7091.57	0.022673	3.84	115.34	237.18	0.88	5.96	0.69
WestTrib	32034.26	25-yr	129.8	423.71	46.48	7090.35	7091.68	7091.59	7091.93	0.020943	4.57	194.41	285.21	0.85	6	0.89
WestTrib	32034.26	50-yr	156.7	534.73	68.59	7090.35	7091.79	7091.67	7092.11	0.024696	5.27	226.17	341.73	0.98	6.02	1.02
WestTrib	32034.26	100-yr	221	654.6	84.38	7090.35	7091.92	7091.7	7092.3	0.025991	5.81	281.27	464.02	1.11	6.07	0.98
WestTrib	31765.2	2-yr		99		7084.51	7085.12	7085.05	7085.21	0.030553	2.45	40.44	144.18	0.76	4.83	0.62
WestTrib	31765.2	5-yr	13.39	196.61		7084.51	7085.33	7085.25	7085.45	0.02322	2.81	85	227.46	0.79	4.55	0.54
WestTrib	31765.2	10-yr	32.28	287.72	0	7084.51	7085.48	7085.38	7085.62	0.021516	3.13	120.68	260.78	0.77	4.35	0.62
WestTrib	31765.2	25-yr	83.85	514.58	1.57	7084.51	7085.71	7085.63	7085.93	0.023752	4.07	188.99	348.24	0.91	4.15	0.8
WestTrib	31765.2	50-yr	137.4	617.5	5.1	7084.51	7085.85	7085.67	7086.08	0.020193	4.17	240.27	366.12	0.83	4.1	0.83
WestTrib	31765.2	100-yr	200.8	748.14	11.03	7084.51	7085.98	7085.88	7086.23	0.019531	4.46	289.52	385.14	0.82	4.06	0.92
WestTrib	31571.99	2-yr	2.18	96.82		7079.18	7080.18		7080.38	0.02076	3.62	29.25	47.54	0.8	3.36	0.8
WestTrib	31571.99	5-yr	14.82	195.18		7079.18	7080.55	7080.46	7080.9	0.023669	4.87	49.93	62.25	0.93	3.25	1.18
WestTrib	31571.99	10-yr	36.02	283.23	0.75	7079.18	7080.85	7080.77	7081.28	0.023223	5.53	72.26	109.21	1.14	3.12	0.96
WestTrib	31571.99	25-yr	101.6	422.1	76.29	7079.18	7081.42	7081.42	7081.79	0.019339	5.74	169.81	223.55	1	2.3	0.92
WestTrib	31571.99	50-yr	136.8	493.43	129.75	7079.18	7081.57	7081.57	7081.97	0.022183	6.12	206.19	253.23	1	2.36	1.13
WestTrib	31571.99	100-yr	174	583.77	202.25	7079.18	7081.74	7081.74	7082.18	0.022461	6.54	257.53	332.94	1.06	2.36	1.08
WestTrib	31384.44	2-yr		99		7075.71	7076.66	7076.66	7077.01	0.015477	4.76	20.78	30.44	1.02	3.54	0.66

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	31384.44	5-yr		210		7075.71	7077.12	7077.12	7077.65	0.013114	5.85	35.93	34.08	1	3.09	0.86
WestTrib	31384.44	10-yr		320		7075.71	7077.48	7077.48	7078.16	0.012343	6.59	48.55	36.68	1.01	3	1.01
WestTrib	31384.44	25-yr	0.01	576.56	23.43	7075.71	7078.5	7078.5	7079.06	0.008383	6.12	126.3	173.91	1.24	2.31	0.38
WestTrib	31384.44	50-yr	0.19	700.1	59.71	7075.71	7078.72	7078.72	7079.33	0.008004	6.52	164.86	176.23	1.14	2.12	0.47
WestTrib	31384.44	100-yr	0.72	848.55	110.73	7075.71	7078.95	7078.95	7079.63	0.007896	7.02	205.4	178.71	1.09	1.98	0.56
WestTrib	31149.9	2-yr		100		7071.42	7072.06	7072.03	7072.23	0.014288	3.26	30.64	74.86	0.9	3.31	0.37
WestTrib	31149.9	5-yr		220		7071.42	7072.34	7072.29	7072.61	0.012553	4.14	53.14	82.4	0.91	3.15	0.51
WestTrib	31149.9	10-yr		330		7071.42	7072.53	7072.49	7072.89	0.012426	4.77	69.12	85.87	0.94	3.04	0.62
WestTrib	31149.9	25-yr	0.01	619.99		7071.42	7072.96	7072.91	7073.48	0.011485	5.78	107.34	111.92	1.04	2.97	0.69
WestTrib	31149.9	50-yr	15.27	779.49	5.24	7071.42	7073.27	7073.27	7073.74	0.009832	5.57	174.29	307.21	1.29	2.55	0.35
WestTrib	31149.9	100-yr	43.54	934.47	21.99	7071.42	7073.48	7073.48	7073.95	0.008481	5.67	248.63	392.95	1.22	2.48	0.33
WestTrib	30906.88	2-yr	2.36	97.64		7067.59	7068.67	7068.64	7068.92	0.012923	4.09	27.09	54.04	1.01	6.23	0.4
WestTrib	30906.88	5-yr	12.65	207.35		7067.59	7069.03	7069.03	7069.46	0.013255	5.41	47.74	60.28	1.04	6.07	0.65
WestTrib	30906.88	10-yr	24.99	305.01		7067.59	7069.31	7069.31	7069.84	0.01245	6.06	65.41	64.79	1.03	5.68	0.78
WestTrib	30906.88	25-yr	65.28	552.53	2.19	7067.59	7069.89	7069.89	7070.51	0.012908	6.67	115.15	115.55	1.12	5.6	0.8
WestTrib	30906.88	50-yr	83.54	704.4	12.06	7067.59	7070.16	7070.16	7070.84	0.011008	7	150.33	139.46	1.12	5.16	0.74
WestTrib	30906.88	100-yr	103.9	871.19	24.9	7067.59	7070.33	7070.33	7071.17	0.012085	7.84	174.3	151.87	1.21	4.54	0.86
WestTrib	30466.36	2-yr		100		7061.3	7062.42	7062.4	7062.69	0.015558	4.2	23.79	42.31	0.99	5.6	0.55
WestTrib	30466.36	5-yr		220		7061.3	7062.81	7062.81	7063.24	0.014336	5.28	41.67	49.51	1.01	4.72	0.75
WestTrib	30466.36	10-yr		330		7061.3	7063.09	7063.09	7063.62	0.013354	5.84	56.54	54.75	1.01	4.63	0.86
WestTrib	30466.36	25-yr		620		7061.3	7063.7	7063.7	7064.34	0.012534	6.43	96.37	76.93	1.01	4.54	0.98
WestTrib	30466.36	50-yr	0	800		7061.3	7063.96	7063.96	7064.68	0.01245	6.79	117.83	89.3	1.04	4.47	1.02
WestTrib	30466.36	100-yr	10.22	983.53	6.25	7061.3	7064.32	7064.32	7064.99	0.008704	6.6	178.3	246.89	1.36	3.7	0.39
WestTrib	30109.14	2-yr	2.04	97.96		7056.28	7056.92	7056.92	7057.09	0.015604	3.35	34.13	139.51	1.18	3.63	0.24
WestTrib	30109.14	5-yr	27.13	192.39	0.48	7056.28	7057.17	7057.17	7057.39	0.011893	4.03	82.49	217.73	1.08	2.97	0.28
WestTrib	30109.14	10-yr	57.51	270.78	1.71	7056.28	7057.31	7057.31	7057.59	0.012199	4.65	113.62	225.14	1.05	2.94	0.38
WestTrib	30109.14	25-yr	147.4	464.04	8.58	7056.28	7057.6	7057.6	7058	0.012484	5.81	182.53	246.91	1.04	2.86	0.58
WestTrib	30109.14	50-yr	206.9	577.06	16.07	7056.28	7057.76	7057.76	7058.22	0.012161	6.29	223.04	258.97	1.03	2.81	0.65
WestTrib	30109.14	100-yr	273.1	700.42	26.45	7056.28	7057.91	7057.91	7058.43	0.012222	6.81	262.82	270.23	1.04	2.78	0.74
WestTrib	29876.27	2-yr	8.34	91.5	0.16	7050.49	7051.06	7051.06	7051.23	0.015539	3.46	38.07	131.76	1.09	4.02	0.28
WestTrib	29876.27	5-yr	31.56	185.53	2.9	7050.49	7051.3	7051.3	7051.56	0.013705	4.42	72.99	151.77	1.04	3.56	0.41
WestTrib	29876.27	10-yr	55.19	267.42	7.38	7050.49	7051.48	7051.48	7051.8	0.013008	5.03	101.01	166.83	1.03	3.61	0.49
WestTrib	29876.27	25-yr	122.1	471.11	26.83	7050.49	7051.85	7051.85	7052.31	0.012043	6.17	169.58	206.5	1.06	3.12	0.62
WestTrib	29876.27	50-yr	157.3	597.4	45.26	7050.49	7052.04	7052.04	7052.58	0.011869	6.76	212.48	241.8	1.11	2.91	0.65
WestTrib	29876.27	100-yr	200.9	728	71.13	7050.49	7052.23	7052.23	7052.83	0.011561	7.25	261.28	283.06	1.15	3.06	0.67
WestTrib	29632.62	2-yr	10.95	89.05		7044.31	7044.96	7044.96	7045.13	0.017572	3.48	39.57	144.21	1.11	4.72	0.3

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	29632.62	5-yr	42.73	177.27		7044.31	7045.21	7045.21	7045.42	0.015463	4.06	85.78	226.06	1.05	4.13	0.37
WestTrib	29632.62	10-yr	76.91	253.09		7044.31	7045.34	7045.34	7045.6	0.016798	4.62	117.16	259.95	1.07	4.12	0.47
WestTrib	29632.62	25-yr	179.5	440.49		7044.31	7045.66	7045.66	7045.96	0.013204	5.08	231.74	454.61	1.07	3.43	0.42
WestTrib	29632.62	50-yr	263.5	536.49	0.02	7044.31	7045.81	7045.81	7046.11	0.011423	5.24	302.31	474.87	0.96	3.13	0.45
WestTrib	29632.62	100-yr	349.3	650.63	0.11	7044.31	7045.89	7045.89	7046.26	0.013029	5.89	339.69	482.04	1.02	3.3	0.57
WestTrib	29330.53	2-yr	2.69	97.31		7035.54	7036.65	7036.65	7036.9	0.013938	4	28.41	67.79	1.08	0.15	0.36
WestTrib	29330.53	5-yr	16.95	202.63	0.42	7035.54	7037.01	7037.01	7037.38	0.012072	5.07	56.38	90.23	1.09	0.42	0.47
WestTrib	29330.53	10-yr	34.4	293.37	2.22	7035.54	7037.26	7037.26	7037.72	0.011217	5.75	80.93	107.3	1.1	0.76	0.53
WestTrib	29330.53	25-yr	95.59	511.29	13.12	7035.54	7037.78	7037.78	7038.39	0.009716	6.87	146.65	143.25	1.09	1.82	0.62
WestTrib	29330.53	50-yr	140.3	636.38	23.34	7035.54	7038.05	7038.05	7038.73	0.009207	7.38	187.1	162.23	1.09	2.49	0.66
WestTrib	29330.53	100-yr	193.5	769.91	36.64	7035.54	7038.29	7038.29	7039.05	0.009074	7.93	228.91	195.39	1.1	3.25	0.72
WestTrib	29004.24	2-yr	98.91	1.09		7032.15	7032.4	7032.4	7032.4	0.000037	0.08	637.52	475.41	0.02	0.04	0
WestTrib	29004.24	5-yr	217.6	2.39		7032.15	7032.4	7032.4	7032.4	0.000178	0.17	637.52	475.41	0.05	0.13	0.01
WestTrib	29004.24	10-yr	326.4	3.58		7032.15	7032.4	7032.4	7032.4	0.0004	0.26	637.52	475.41	0.08	0.23	0.03
WestTrib	29004.24	25-yr	613.3	6.73		7032.15	7032.4	7032.4	7032.41	0.001411	0.49	637.52	475.41	0.15	0.33	0.12
WestTrib	29004.24	50-yr	791.3	8.69		7032.15	7032.4	7032.4	7032.42	0.00235	0.63	637.52	475.41	0.19	0.55	0.2
WestTrib	29004.24	100-yr	989.1	10.86		7032.15	7032.4	7032.4	7032.44	0.003671	0.79	637.52	475.41	0.24	0.85	0.31
WestTrib	28833.58	2-yr	4.09	95.91	0	7026.87	7027.44	7027.44	7027.63	0.017451	3.52	32.29	296.28	1.05	7.01	0.37
WestTrib	28833.58	5-yr	14.88	204.08	1.04	7026.87	7027.7	7027.7	7028	0.014621	4.51	61.06	371.34	1.1	6.01	0.45
WestTrib	28833.58	10-yr	28.92	296.9	4.19	7026.87	7027.91	7027.91	7028.26	0.012257	4.97	90.82	443.83	1.11	5.19	0.43
WestTrib	28833.58	25-yr	357.2	250.28	12.56	7026.87	7028.28	7028.28	7028.34	0.002688	2.95	504.11	573.42	0.38	2.01	0.15
WestTrib	28833.58	50-yr	460.9	322.94	16.21	7026.87	7028.28	7028.28	7028.38	0.004475	3.8	504.11	573.42	0.48	2.69	0.25
WestTrib	28833.58	100-yr	576.1	403.68	20.26	7026.87	7028.28	7028.28	7028.44	0.006992	4.75	504.11	573.42	0.61	3.4	0.38
WestTrib	28432.62	2-yr		100		7015.13	7015.82	7015.82	7016.03	0.017514	3.7	27.05	63.85	1	4.77	0.46
WestTrib	28432.62	5-yr		219.74	0.26	7015.13	7016.12	7016.12	7016.44	0.015372	4.52	49.18	82.37	1.03	5.03	0.57
WestTrib	28432.62	10-yr	0.24	328.15	1.61	7015.13	7016.33	7016.33	7016.72	0.013653	5.07	67.44	97.13	1.07	5.24	0.59
WestTrib	28432.62	25-yr	6.3	603.67	10.04	7015.13	7016.75	7016.75	7017.32	0.011475	6.14	113.92	120.59	1.1	4.34	0.68
WestTrib	28432.62	50-yr	13.42	768.15	18.43	7015.13	7016.98	7016.98	7017.63	0.010614	6.61	142.8	132.69	1.1	4.02	0.71
WestTrib	28432.62	100-yr	23.46	946.71	29.82	7015.13	7017.2	7017.2	7017.94	0.010128	7.09	173.38	144.49	1.11	3.84	0.76
WestTrib	28032.62	2-yr		99.99	0.01	7006.99	7007.93	7007.81	7008.11	0.008619	3.35	29.87	49.47	0.76	13.96	0.32
WestTrib	28032.62	5-yr	0	218.8	1.2	7006.99	7008.27	7008.2	7008.61	0.010472	4.68	48.59	61.93	0.93	14.07	0.51
WestTrib	28032.62	10-yr	0.19	326.38	3.43	7006.99	7008.45	7008.45	7008.97	0.012526	5.79	60.45	68.64	1.08		0.69
WestTrib	28032.62	25-yr	5.09	596.8	18.12	7006.99	7009.01	7009.01	7009.73	0.010222	6.94	105.33	91.94	1.12	11.97	0.73
WestTrib	28032.62	50-yr	12.3	755.95	31.75	7006.99	7009.31	7009.31	7010.12	0.009443	7.45	134.3	105.21	1.13	10.86	0.75
WestTrib	28032.62	100-yr	23.46	927.02	49.52	7006.99	7009.59	7009.59	7010.5	0.009049	7.98	165.4	117.91	1.14	10.11	0.79
WestTrib	27507.46	2-yr		110		6993.21	6993.95	6993.94	6994.16	0.045978	3.65	30.15	69.52	0.98	5.36	1.24

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	27507.46	5-yr		230		6993.21	6994.28	6994.23	6994.54	0.034034	4.09	56.25	87.22	0.9	5.21	1.37
WestTrib	27507.46	10-yr		360		6993.21	6994.54	6994.46	6994.85	0.031084	4.49	80.11	100.72	0.89	5.08	1.54
WestTrib	27507.46	25-yr	12.87	677.13		6993.21	6995.03	6994.91	6995.43	0.022318	5.13	143.48	151.6	0.92	4.85	1.32
WestTrib	27507.46	50-yr	35.99	854.01		6993.21	6995.28	6995.12	6995.72	0.01964	5.4	182.23	162.06	0.88	4.73	1.38
WestTrib	27507.46	100-yr	82.85	1117.15		6993.21	6995.62	6995.39	6996.1	0.017068	5.73	240.01	176.72	0.84	4.59	1.45
WestTrib	27232.62	2-yr	0.09	109.91	0	6987.13	6988.68		6988.8	0.010653	2.76	40.04	48.81	0.54	7.58	0.54
WestTrib	27232.62	5-yr	1.68	227.33	0.99	6987.13	6989.1	6988.73	6989.33	0.012014	3.83	62.85	61.15	0.66	7.76	0.77
WestTrib	27232.62	10-yr	7.38	347.71	4.91	6987.13	6989.46	6989.06	6989.77	0.01225	4.56	87.22	73.92	0.73	7.92	0.9
WestTrib	27232.62	25-yr	35.35	631.13	23.51	6987.13	6990.06	6989.74	6990.59	0.014244	6.06	137.76	94.22	0.85	8.2	1.3
WestTrib	27232.62	50-yr	59.18	791.37	39.45	6987.13	6990.34	6990.07	6990.98	0.015069	6.74	165.67	103.55	0.89	8.33	1.5
WestTrib	27232.62	100-yr	102.3	1028.38	69.3	6987.13	6990.71	6990.5	6991.5	0.016112	7.64	206.3	116.59	0.94	8.55	1.78
WestTrib	26814.63	2-yr	4.67	100.6	4.73	6980.37	6981.04	6981.02	6981.22	0.037369	3.54	36.29	99.97	1	6.99	0.85
WestTrib	26814.63	5-yr	18.07	194.29	17.64	6980.37	6981.3	6981.28	6981.56	0.032379	4.42	65.69	121.51	0.99	7.02	1.09
WestTrib	26814.63	10-yr	35.2	289.37	35.43	6980.37	6981.5	6981.49	6981.85	0.033048	5.21	91.32	138.94	1.03	7.04	1.36
WestTrib	26814.63	25-yr	84.8	505.23	99.97	6980.37	6981.93	6981.93	6982.4	0.028548	6.23	164.42	199	1.06	6.54	1.47
WestTrib	26814.63	50-yr	124.1	618.42	147.45	6980.37	6982.13	6982.13	6982.64	0.02731	6.67	206.66	225.06	1.05	6.33	1.57
WestTrib	26814.63	100-yr	191.9	778.44	229.66	6980.37	6982.39	6982.39	6982.95	0.026322	7.23	267.88	255.25	1.04	5.82	1.72
WestTrib	26425.04	2-yr	4.2	103.58	2.22	6973.44	6974.15		6974.22	0.010422	2.09	58.45	124.77	0.52	9.16	0.3
WestTrib	26425.04	5-yr	15.26	207.03	7.71	6973.44	6974.43	6974.17	6974.54	0.011351	2.83	95.37	145.43	0.59	9.28	0.46
WestTrib	26425.04	10-yr	31.8	312.09	16.11	6973.44	6974.67	6974.37	6974.82	0.011208	3.32	132.41	162.94	0.61	9.41	0.57
WestTrib	26425.04	25-yr	114.7	534.81	40.46	6973.44	6975.1	6974.68	6975.3	0.010818	4.08	255.19	329.75	0.73	9.61	0.52
WestTrib	26425.04	50-yr	192.2	643.12	54.67	6973.44	6975.29	6974.7	6975.51	0.010534	4.36	320.68	355.31	0.7	9.66	0.59
WestTrib	26425.04	100-yr	334	785.85	80.17	6973.44	6975.58		6975.8	0.009352	4.55	427.11	381.76	0.63	9.73	0.65
WestTrib	25882.64	2-yr	9.81	100.12	0.07	6964.36	6964.92	6964.92	6965.06	0.031871	3.07	47.09	239.31	1.17	12.21	0.39
WestTrib	25882.64	5-yr	58.65	169.44	1.91	6964.36	6965.11	6965.11	6965.27	0.028637	3.67	101.07	339.26	1.03	11.89	0.53
WestTrib	25882.64	10-yr	123.3	231.73	4.93	6964.36	6965.22	6965.22	6965.41	0.030297	4.23	141.59	356.32	0.98	10.54	0.75
WestTrib	25882.64	25-yr	302.2	372.97	14.83	6964.36	6965.43	6965.43	6965.7	0.034063	5.3	218.97	378.59	0.96	9.75	1.23
WestTrib	25882.64	50-yr	414.7	453.38	21.91	6964.36	6965.53	6965.53	6965.85	0.036269	5.84	256.62	388.74	0.98	9.81	1.49
WestTrib	25882.64	100-yr	579.5	587.8	32.67	6964.36	6965.61	6965.61	6966.06	0.047152	7.01	289.73	401.49	1.11	10.52	2.12
WestTrib	25406.2	2-yr			110	6952.93	6952.66		6952.68	0.020955		98.39	366.9	0.38	9.31	0.35
WestTrib	25406.2	5-yr			230	6952.93	6952.82		6952.85	0.021795		160.01	421.59	0.41	9.04	0.52
WestTrib	25406.2	10-yr		0.51	359.49	6952.93	6952.98		6953.02	0.016734	0.43	231.89	474.14	0.39	8.84	0.51
WestTrib	25406.2	25-yr	0.01	22.37	667.62	6952.93	6953.27		6953.32	0.013487	1.33	377.19	526.78	0.38	8.36	0.6
WestTrib	25406.2	50-yr	0.71	45.6	843.69	6952.93	6953.4		6953.47	0.013081	1.76	447.83	548.71	0.39	8.13	0.67
WestTrib	25406.2	100-yr	5.24	86.64	1108.1	6952.93	6953.58		6953.66	0.01256	2.24	549.1	566	0.39	7.8	0.76
WestTrib	25024.12	2-yr	46.45	63.5	0.06	6941.81	6943.22	6943.11	6943.38	0.024224	3.86	40.34	64.97	0.71	8.08	0.93

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	25024.12	5-yr	107.7	121.61	0.73	6941.81	6943.57		6943.82	0.026855	4.93	65.34	74.26	0.76	7.97	1.47
WestTrib	25024.12	10-yr	171.9	186.25	1.87	6941.81	6943.78	6943.67	6944.18	0.033734	6.26	81.37	77.38	0.87	7.8	2.2
WestTrib	25024.12	25-yr	338.3	344.78	6.89	6941.81	6944.24	6944.24	6944.95	0.040653	8.46	118.86	85.81	1.01	7.76	3.49
WestTrib	25024.12	50-yr	445.2	433.41	11.36	6941.81	6944.51	6944.51	6945.33	0.039455	9.19	142.14	88.8	1.02	7.75	3.92
WestTrib	25024.12	100-yr	613.3	566.83	19.91	6941.81	6944.88	6944.88	6945.86	0.03754	10.08	176.4	92.96	1.01	7.82	4.42
WestTrib	24630.32	2-yr		85		6933.51	6935.02	6935.02	6935.29	0.016807	4.19	20.29	38.27	1.01	7	0.55
WestTrib	24630.32	5-yr		210		6933.51	6935.47	6935.47	6935.86	0.015392	5.02	41.8	56.2	1.03	6.36	0.71
WestTrib	24630.32	10-yr		390		6933.51	6935.9	6935.9	6936.39	0.013375	5.61	69.51	71.24	1	5.55	0.81
WestTrib	24630.32	25-yr		780		6933.51	6936.52	6936.52	6937.18	0.012192	6.48	120.4	92.74	1	4.88	0.98
WestTrib	24630.32	50-yr		950		6933.51	6936.74	6936.74	6937.44	0.012005	6.69	142.1	103.21	1	4.73	1.02
WestTrib	24630.32	100-yr		1100		6933.51	6936.89	6936.89	6937.65	0.011644	6.99	157.3	104.35	1	4.61	1.09
WestTrib	24203.51	2-yr		85		6926.49	6927.67	6927.67	6927.9	0.015963	3.87	21.97	44.98	0.98	6.12	0.48
WestTrib	24203.51	5-yr		210		6926.49	6928.05	6928.05	6928.49	0.014395	5.28	39.74	47.05	1.01	5.48	0.75
WestTrib	24203.51	10-yr		389.68	0.32	6926.49	6928.5	6928.5	6929.13	0.012564	6.36	61.85	53.31	1.04	4.88	0.9
WestTrib	24203.51	25-yr		771.12	8.88	6926.49	6929.26	6929.26	6930.16	0.01063	7.64	108.07	67.92	1.06	4.12	1.04
WestTrib	24203.51	50-yr		933.8	16.2	6926.49	6929.54	6929.54	6930.52	0.010147	8.02	127.79	73.3	1.06	3.68	1.09
WestTrib	24203.51	100-yr		1075.97	24.03	6926.49	6929.76	6929.76	6930.82	0.009912	8.35	144.39	78.1	1.07	3.48	1.13
WestTrib	23803.51	2-yr		85		6919.56	6920.93	6920.93	6921.35	0.014594	5.2	16.34	19.89	1.01	6.26	0.74
WestTrib	23803.51	5-yr		210		6919.56	6921.65	6921.65	6922.27	0.012989	6.32	33.21	27.57	1.02	5.49	0.96
WestTrib	23803.51	10-yr		390		6919.56	6922.33	6922.33	6923.12	0.011764	7.12	54.81	35.37	1.01	4.82	1.12
WestTrib	23803.51	25-yr	2.24	774.14	3.62	6919.56	6923.3	6923.3	6924.37	0.009879	8.34	99.09	58.67	1.13	4.09	1.03
WestTrib	23803.51	50-yr	9.43	928.41	12.16	6919.56	6923.83	6923.83	6924.81	0.008353	8.02	137.19	101.13	1.2	3.57	0.7
WestTrib	23803.51	100-yr	25.27	1051.91	22.82	6919.56	6924.12	6924.12	6925.09	0.007569	8.07	177.05	183.81	1.42	3.27	0.45
WestTrib	23401.38	2-yr		85		6912.71	6913.63	6913.63	6913.91	0.01641	4.26	19.98	36.28	1.01	5.21	0.56
WestTrib	23401.38	5-yr		210		6912.71	6914.09	6914.09	6914.56	0.014105	5.51	38.1	41.84	1.02	5.14	0.8
WestTrib	23401.38	10-yr		389.75	0.25	6912.71	6914.58	6914.58	6915.25	0.012022	6.56	59.83	46.6	1.02	4.81	0.96
WestTrib	23401.38	25-yr	1.17	773.9	4.93	6912.71	6915.39	6915.39	6916.34	0.01028	7.84	104.44	67.35	1.11	4.04	0.99
WestTrib	23401.38	50-yr	5.51	935.94	8.55	6912.71	6915.69	6915.69	6916.73	0.009399	8.24	126.38	80.52	1.15	3.78	0.92
WestTrib	23401.38	100-yr	11.41	1075.78	12.81	6912.71	6915.95	6915.95	6917.04	0.008671	8.5	149.73	109.46	1.27	3.57	0.74
WestTrib	23003.51	2-yr	0.01	84.99	0	6906.3	6907.42		6907.61	0.010574	3.44	24.78	46.12	0.83	5.69	0.35
WestTrib	23003.51	5-yr	1.3	208.4	0.3	6906.3	6907.79	6907.74	6908.15	0.011712	4.78	45.76	61.39	0.97	5.97	0.54
WestTrib	23003.51	10-yr	6.34	382.23	1.43	6906.3	6908.16	6908.16	6908.73	0.011999	6.14	69.39	69.65	1.07	6.02	0.74
WestTrib	23003.51	25-yr	32.15	740.96	6.89	6906.3	6908.85	6908.85	6909.69	0.009888	7.55	125.64	92.13	1.11	5.01	0.84
WestTrib	23003.51	50-yr	49.46	890.29	10.25	6906.3	6909.1	6909.1	6910.04	0.009435	8.01	149.82	100.26	1.12	4.77	0.88
WestTrib	23003.51	100-yr	65.95	1020.4	13.66	6906.3	6909.31	6909.31	6910.32	0.009133	8.38	171.33	108.86	1.13	4.6	0.89
WestTrib	22594.16	2-yr		85		6901.02	6901.74	6901.74	6901.91	0.019044	3.24	26.26	80.52	1	0.5	0.39

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	22594.16	5-yr		210		6901.02	6902	6902	6902.17	0.018283	3.33	62.98	179.14	0.99	0.47	0.4
WestTrib	22594.16	10-yr		390		6901.02	6902.16	6902.16	6902.44	0.017853	4.22	92.48	181.66	1.04	0.45	0.57
WestTrib	22594.16	25-yr		779.85	0.15	6901.02	6902.48	6902.48	6902.89	0.014646	5.19	150.83	198.06	1.05	0.41	0.7
WestTrib	22594.16	50-yr		948.75	1.25	6901.02	6902.6	6902.6	6903.06	0.013803	5.5	174.67	202.17	1.04	0.4	0.74
WestTrib	22594.16	100-yr		1097.2	2.81	6901.02	6902.7	6902.7	6903.2	0.013172	5.73	195.08	205.63	1.04	0.39	0.78
WestTrib	22566.37	2-yr		85		6897.14	6898.07	6898.07	6898.37	0.01595	4.4	19.3	32.53	1.01	5.6	0.59
WestTrib	22566.37	5-yr		210		6897.14	6898.57	6898.57	6899.08	0.013437	5.72	36.71	36.62	1.01	4.84	0.83
WestTrib	22566.37	10-yr		390		6897.14	6899.11	6899.11	6899.82	0.011962	6.77	57.59	40.77	1	3.71	1.04
WestTrib	22566.37	25-yr		780		6897.14	6899.98	6899.98	6901	0.010701	8.12	96.04	47.47	1.01	1.32	1.33
WestTrib	22566.37	50-yr		950		6897.14	6900.29	6900.29	6901.42	0.010419	8.54	111.18	49.86	1.01	1	1.43
WestTrib	22566.37	100-yr	0	1099.96	0.04	6897.14	6900.62	6900.62	6901.76	0.010377	8.57	128.54	59.29	1.03	0.84	1.38
WestTrib	22203.51	2-yr		85		6887.36	6888.58	6888.58	6888.95	0.014904	4.9	17.33	23.54	1.01	0.23	0.68
WestTrib	22203.51	5-yr		210		6887.36	6889.2	6889.2	6889.78	0.013224	6.15	34.14	30.11	1.02	0.21	0.93
WestTrib	22203.51	10-yr		390		6887.36	6890.05	6889.85	6890.64	0.008697	6.15	63.38	40.72	0.87	0.21	0.83
WestTrib	22203.51	25-yr	0.67	765.96	13.37	6887.36	6892.44		6892.68	0.001373	3.94	225.55	118.95	0.5	0.04	0.16
WestTrib	22203.51	50-yr	2.99	892.5	54.52	6887.36	6893.34		6893.53	0.00081	3.57	348.34	145.85	0.4	0.02	0.12
WestTrib	22203.51	100-yr	6.02	995.84	98.15	6887.36	6894.1		6894.26	0.000575	3.37	465.49	165.85	0.34	0.01	0.1
WestTrib	22188.6*	2-yr		85		6887.12	6888.27	6888.27	6888.64	0.01546	4.87	17.46	24.67	1.02	0.24	0.68
WestTrib	22188.6*	5-yr		210		6887.12	6888.89	6888.89	6889.44	0.013092	5.96	35.24	32.41	1.01	0.24	0.88
WestTrib	22188.6*	10-yr		390		6887.12	6890.07		6890.42	0.004522	4.75	82.18	47.82	0.64	0.11	0.48
WestTrib	22188.6*	25-yr	0.02	779.98		6887.12	6892.45		6892.64	0.001023	3.51	222.18	67.1	0.34	0.03	0.21
WestTrib	22188.6*	50-yr	0.81	937.91	11.27	6887.12	6893.34		6893.51	0.000673	3.33	315.82	121.34	0.36	0.02	0.11
WestTrib	22188.6*	100-yr	2.65	1061.1	36.25	6887.12	6894.09		6894.24	0.000502	3.21	416.67	141.24	0.32	0.02	0.09
WestTrib	22173.7*	2-yr		85		6886.88	6887.97	6887.97	6888.32	0.015074	4.74	17.95	25.97	1	0.23	0.65
WestTrib	22173.7*	5-yr		210		6886.88	6888.74		6889.13	0.008473	5	42.03	36.36	0.82	0.17	0.61
WestTrib	22173.7*	10-yr		390		6886.88	6890.09		6890.31	0.00242	3.76	103.74	53.6	0.48	0.06	0.29
WestTrib	22173.7*	25-yr		780		6886.88	6892.45		6892.6	0.000712	3.09	252.49	69.3	0.29	0.03	0.16
WestTrib	22173.7*	50-yr	0.07	949.9	0.04	6886.88	6893.35		6893.49	0.000525	3.01	316.79	89.96	0.28	0.02	0.11
WestTrib	22173.7*	100-yr	0.8	1092.08	7.12	6886.88	6894.09		6894.23	0.000413	2.96	398.08	119.56	0.28	0.02	0.08
WestTrib	22158.9*	2-yr		85		6886.64	6887.66	6887.66	6888	0.015174	4.69	18.11	26.7	1	0.23	0.64
WestTrib	22158.9*	5-yr		210		6886.64	6888.74		6888.96	0.004207	3.74	56.17	44.46	0.59	0.09	0.33
WestTrib	22158.9*	10-yr		390		6886.64	6890.1		6890.25	0.001374	3.05	127.79	59.04	0.37	0.04	0.18
WestTrib	22158.9*	25-yr		780		6886.64	6892.46		6892.58	0.0005	2.73	286.09	72.46	0.24	0.02	0.12
WestTrib	22158.9*	50-yr		950		6886.64	6893.36		6893.47	0.000395	2.7	352.12	75.36	0.22	0.02	0.11
WestTrib	22158.9*	100-yr	0.08	1099.88	0.04	6886.64	6894.1		6894.21	0.00033	2.69	409.98	87.94	0.22	0.01	0.09
WestTrib	22144.0*	2-yr		85		6886.41	6887.53		6887.73	0.007506	3.59	23.66	30.72	0.72	0.12	0.36

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	22144.0*	5-yr		210		6886.41	6888.75		6888.87	0.002051	2.84	73.99	51.66	0.42	0.05	0.18
WestTrib	22144.0*	10-yr		390		6886.41	6890.11		6890.21	0.000821	2.53	154.32	64.29	0.29	0.02	0.12
WestTrib	22144.0*	25-yr		780		6886.41	6892.47		6892.56	0.000358	2.42	322.4	75.86	0.21	0.01	0.09
WestTrib	22144.0*	50-yr		950		6886.41	6893.36		6893.45	0.000294	2.43	391.38	78.57	0.19	0.01	0.09
WestTrib	22144.0*	100-yr		1100		6886.41	6894.1		6894.2	0.000258	2.44	450.57	80.7	0.18	0.01	0.09
WestTrib	22129.18	2-yr		85		6886.17	6887.52	6887.01	6887.62	0.002809	2.46	34.48	37.69	0.45		0.16
WestTrib	22129.18	5-yr		210		6886.17	6888.75	6887.61	6888.83	0.001043	2.21	95.14	58.33	0.3		0.11
WestTrib	22129.18	10-yr		390		6886.17	6890.11	6888.15	6890.18	0.00051	2.12	183.62	69.4	0.23		0.08
WestTrib	22129.18	25-yr		780		6886.17	6892.47	6888.91	6892.55	0.000254	2.16	360.82	79.49	0.18		0.07
WestTrib	22129.18	50-yr		950		6886.17	6893.37	6889.19	6893.44	0.000213	2.21	430.26	82.04	0.17		0.07
WestTrib	22129.18	100-yr		1100		6886.17	6894.11	6889.4	6894.19	0.00019	2.25	488.4	84.01	0.16		0.07
WestTrib	21948.92		Culvert													
WestTrib	21824.12	2-yr		85		6883.52	6884.96	6884.8	6885.18	0.020607	3.78	22.48	35.32	0.73	0.41	1.07
WestTrib	21824.12	5-yr		210		6883.52	6885.47	6885.36	6885.99	0.025565	5.79	36.25	35.85	0.88	0.56	2.15
WestTrib	21824.12	10-yr		390		6883.52	6886	6886	6886.92	0.02898	7.71	50.61	36.39	0.99	0.73	3.4
WestTrib	21824.12	25-yr		780		6883.52	6887.11	6887.11	6888.57	0.024845	9.71	80.34	37.36	0.99	0.81	4.63
WestTrib	21824.12	50-yr		950		6883.52	6887.47	6887.47	6889.19	0.025047	10.53	90.21	37.68	1.01	0.87	5.24
WestTrib	21824.12	100-yr		1100		6883.52	6887.86	6887.86	6889.72	0.023305	10.93	100.66	39.36	1	0.86	5.44
WestTrib	21801.9*	2-yr		85		6883.32	6884.64	6884.4	6884.77	0.013099	2.85	29.82	38.5	0.57	0.3	0.63
WestTrib	21801.9*	5-yr		210		6883.32	6885.16	6884.85	6885.43	0.015196	4.15	50.55	41.16	0.66	0.35	1.15
WestTrib	21801.9*	10-yr		390		6883.32	6885.66	6885.36	6886.12	0.017788	5.47	71.31	42.96	0.75	0.41	1.8
WestTrib	21801.9*	25-yr		780		6883.32	6886.38	6886.21	6887.27	0.022412	7.54	103.41	45.29	0.88	0.53	3.09
WestTrib	21801.9*	50-yr		950		6883.32	6886.63	6886.51	6887.7	0.024305	8.3	114.52	46.07	0.93	0.58	3.64
WestTrib	21801.9*	100-yr		1100		6883.32	6886.82	6886.78	6888.05	0.025795	8.9	123.62	46.7	0.96	0.62	4.1
WestTrib	21779.8*	2-yr		85		6883.13	6884.35		6884.47	0.014122	2.8	30.4	43.01	0.59	0.32	0.62
WestTrib	21779.8*	5-yr		210		6883.13	6884.84		6885.08	0.015994	3.98	52.7	47.88	0.67	0.35	1.09
WestTrib	21779.8*	10-yr		390		6883.13	6885.29		6885.71	0.018382	5.2	75.01	50.52	0.75	0.42	1.68
WestTrib	21779.8*	25-yr		780		6883.13	6885.96		6886.74	0.022748	7.07	110.36	54.71	0.88	0.53	2.81
WestTrib	21779.8*	50-yr		950		6883.13	6886.2	6886.05	6887.12	0.023986	7.68	123.68	56.21	0.91	0.55	3.23
WestTrib	21779.8*	100-yr		1100		6883.13	6886.42	6886.28	6887.43	0.024278	8.09	135.93	57.55	0.93	0.53	3.5
WestTrib	21757.6*	2-yr		85		6882.93	6884.04		6884.15	0.014011	2.65	32.08	49	0.58	0.22	0.57
WestTrib	21757.6*	5-yr		210		6882.93	6884.53		6884.73	0.014222	3.63	57.92	55.74	0.63	0.26	0.92
WestTrib	21757.6*	10-yr		390		6882.93	6884.93		6885.29	0.01764	4.81	81.06	59.82	0.73	0.36	1.48
WestTrib	21757.6*	25-yr		780		6882.93	6885.55		6886.21	0.021833	6.49	120.2	66.22	0.85	0.45	2.45
WestTrib	21757.6*	50-yr	0.01	949.99		6882.93	6885.87		6886.57	0.019895	6.69	141.98	70.7	0.83	0.39	2.46
WestTrib	21757.6*	100-yr	0.85	1099.15		6882.93	6886.22		6886.9	0.015915	6.6	167.31	73.26	0.77	0.32	2.24

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	21735.5*	2-yr		85		6882.74	6883.88		6883.94	0.006356	1.93	44.02	59.73	0.4	0.14	0.29
WestTrib	21735.5*	5-yr		210		6882.74	6884.35		6884.48	0.008123	2.83	74.18	68.05	0.48	0.16	0.55
WestTrib	21735.5*	10-yr		390		6882.74	6884.68		6884.93	0.012433	4	97.58	73.35	0.61	0.23	1.03
WestTrib	21735.5*	25-yr	0.15	779.85		6882.74	6885.32		6885.75	0.014447	5.31	147.11	82.2	0.7	0.27	1.6
WestTrib	21735.5*	50-yr	1.37	948.54	0.08	6882.74	6885.75		6886.17	0.010496	5.21	183.69	85.77	0.63	0.22	1.39
WestTrib	21735.5*	100-yr	3.7	1095.19	1.1	6882.74	6886.18		6886.58	0.007852	5.06	221.1	89.59	0.57	0.18	1.2
WestTrib	21713.34	2-yr		130		6882.54	6883.74		6883.8	0.005942	2.04	63.63	75.37	0.39	3.73	0.31
WestTrib	21713.34	5-yr		270		6882.54	6884.21		6884.31	0.00655	2.66	101.63	87.28	0.43	3.85	0.47
WestTrib	21713.34	10-yr	0.04	419.96		6882.54	6884.55		6884.71	0.00684	3.16	132.83	91.45	0.46	3.89	0.62
WestTrib	21713.34	25-yr	1.39	808.48	0.13	6882.54	6885.21		6885.48	0.007394	4.19	194.64	96.11	0.52	3.93	0.93
WestTrib	21713.34	50-yr	3.7	1095.4	0.89	6882.54	6885.6		6885.96	0.007668	4.79	233.07	98.96	0.55	3.95	1.12
WestTrib	21713.34	100-yr	7.18	1390.35	2.47	6882.54	6885.96		6886.4	0.007948	5.32	268.58	101.67	0.58	3.97	1.3
WestTrib	21430.2	2-yr		130		6879.26	6879.86	6879.86	6880.08	0.049666	3.72	34.94	82.94	1.01	0.64	1.31
WestTrib	21430.2	5-yr		270		6879.26	6880.13	6880.13	6880.48	0.042508	4.7	57.4	85.22	1.01	0.67	1.79
WestTrib	21430.2	10-yr		420		6879.26	6880.36	6880.36	6880.82	0.039261	5.43	77.35	87.19	1.02	0.7	2.17
WestTrib	21430.2	25-yr		810		6879.26	6880.87	6880.87	6881.55	0.033818	6.62	122.37	91.52	1.01	0.73	2.81
WestTrib	21430.2	50-yr		1100		6879.26	6881.18	6881.18	6882	0.031838	7.26	151.59	94.36	1.01	0.75	3.18
WestTrib	21430.2	100-yr		1400		6879.26	6881.48	6881.48	6882.42	0.030022	7.76	180.38	97.07	1	0.77	3.47
WestTrib	21388.91	2-yr		130		6872.81	6873.98	6873.6	6874.04	0.006775	2.06	63.03	81.19	0.41	5.59	0.33
WestTrib	21388.91	5-yr		270		6872.81	6874.39	6873.89	6874.51	0.007278	2.78	97.04	84.09	0.46	5.66	0.52
WestTrib	21388.91	10-yr		420		6872.81	6874.72	6874.13	6874.9	0.007724	3.34	125.69	86.44	0.49	5.71	0.7
WestTrib	21388.91	25-yr		810		6872.81	6875.4	6874.65	6875.7	0.008397	4.36	185.89	91.25	0.54	5.77	1.06
WestTrib	21388.91	50-yr		1100		6872.81	6875.81	6874.98	6876.18	0.008709	4.91	223.83	94.17	0.56	5.8	1.28
WestTrib	21388.91	100-yr		1400		6872.81	6876.17	6875.29	6876.62	0.009141	5.43	257.76	96.71	0.59	5.82	1.51
WestTrib	21003.51	2-yr		130		6867.66	6868.23	6868.23	6868.45	0.049793	3.75	34.69	81.61	1.01	4.92	1.32
WestTrib	21003.51	5-yr		270		6867.66	6868.49	6868.49	6868.85	0.04305	4.75	56.84	83.96	1.02	5.17	1.82
WestTrib	21003.51	10-yr		420		6867.66	6868.74	6868.74	6869.19	0.038462	5.42	77.43	86.1	1.01	5.21	2.16
WestTrib	21003.51	25-yr		810		6867.66	6869.25	6869.25	6869.93	0.03318	6.61	122.55	90.57	1	5.41	2.79
WestTrib	21003.51	50-yr		1100		6867.66	6869.56	6869.56	6870.38	0.031314	7.25	151.63	93.26	1	5.5	3.17
WestTrib	21003.51	100-yr		1400		6867.66	6869.88	6869.86	6870.8	0.028852	7.7	181.71	95.95	0.99	5.48	3.4
WestTrib	20603.51	2-yr		130		6861.66	6862.69		6862.75	0.00538	1.89	68.72	84.82	0.37	1.65	0.27
WestTrib	20603.51	5-yr		270		6861.66	6863.1		6863.21	0.006014	2.58	104.55	87.86	0.42	1.72	0.45
WestTrib	20603.51	10-yr		420		6861.66	6863.46		6863.6	0.006321	3.09	135.84	90.36	0.44	1.76	0.59
WestTrib	20603.51	25-yr		810		6861.66	6864.14		6864.4	0.007049	4.07	199.22	95.2	0.5	1.82	0.92
WestTrib	20603.51	50-yr		1100		6861.66	6864.55		6864.88	0.007377	4.6	239.1	98.12	0.52	1.85	1.11
WestTrib	20603.51	100-yr		1400		6861.66	6864.93		6865.33	0.007616	5.06	276.74	100.79	0.54	1.86	1.3

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	20469.47	2-yr		130		6860.33	6860.88	6860.88	6861.1	0.049279	3.74	34.77	81.45	1.01	0.67	1.31
WestTrib	20469.47	5-yr		270		6860.33	6861.15	6861.15	6861.5	0.041721	4.7	57.4	84	1	0.68	1.78
WestTrib	20469.47	10-yr		420		6860.33	6861.38	6861.38	6861.84	0.039477	5.47	76.77	85.88	1.02	0.67	2.2
WestTrib	20469.47	25-yr		810		6860.33	6861.9	6861.9	6862.58	0.033283	6.63	122.23	90.14	1	0.7	2.81
WestTrib	20469.47	50-yr		1100		6860.33	6862.21	6862.21	6863.03	0.031673	7.29	150.8	92.72	1.01	0.73	3.2
WestTrib	20469.47	100-yr		1400		6860.33	6862.51	6862.51	6863.46	0.030027	7.82	179.02	95.19	1.01	0.74	3.51
WestTrib	20430.88	2-yr		130		6854.38	6855.38	6855.07	6855.46	0.008059	2.18	59.52	80.13	0.45	2.87	0.37
WestTrib	20430.88	5-yr		270		6854.38	6855.79	6855.35	6855.92	0.008367	2.92	92.34	82.41	0.49	2.91	0.58
WestTrib	20430.88	10-yr		420		6854.38	6856.17	6855.59	6856.35	0.007837	3.38	124.1	84.56	0.49	3	0.71
WestTrib	20430.88	25-yr		810		6854.38	6856.84	6856.14	6857.15	0.008573	4.44	182.54	88.41	0.54	3.02	1.1
WestTrib	20430.88	50-yr		1100		6854.38	6857.22	6856.46	6857.62	0.009354	5.1	215.83	90.55	0.58	3	1.38
WestTrib	20430.88	100-yr		1400		6854.38	6857.61	6856.77	6858.09	0.009358	5.56	252	92.82	0.59	3.04	1.57
WestTrib	20203.51	2-yr		130		6851.33	6852.43		6852.58	0.022436	3.14	41.45	70.03	0.72	1.16	0.83
WestTrib	20203.51	5-yr		270		6851.33	6852.78		6853.02	0.021742	3.92	68.95	81.47	0.75	1.1	1.15
WestTrib	20203.51	10-yr		420		6851.33	6852.98		6853.36	0.0262	4.9	85.65	83.03	0.85	1.02	1.68
WestTrib	20203.51	25-yr		810		6851.33	6853.56		6854.12	0.022872	5.99	135.2	87.5	0.85	0.99	2.2
WestTrib	20203.51	50-yr		1100		6851.33	6853.98		6854.61	0.019682	6.38	172.42	90.64	0.82	1.01	2.33
WestTrib	20203.51	100-yr		1400		6851.33	6854.28		6855.04	0.020217	7.01	199.66	92.87	0.84	1	2.7
WestTrib	20162.9*	2-yr		130		6850.25	6851.18	6851.14	6851.42	0.036925	3.94	32.96	57.36	0.92	1.16	1.32
WestTrib	20162.9*	5-yr		270		6850.25	6851.54	6851.5	6851.91	0.033893	4.87	55.39	65.76	0.94	1.16	1.78
WestTrib	20162.9*	10-yr		420		6850.25	6851.95	6851.79	6852.34	0.023966	5	83.95	73.86	0.83	1.21	1.7
WestTrib	20162.9*	25-yr		810		6850.25	6852.53	6852.39	6853.14	0.025497	6.28	129.04	84.53	0.9	1.17	2.42
WestTrib	20162.9*	50-yr		1100		6850.25	6852.75	6852.75	6853.6	0.031068	7.4	148.64	88.19	1	1.05	3.26
WestTrib	20162.9*	100-yr		1400		6850.25	6853.06	6853.06	6854.04	0.029415	7.93	176.57	90.6	1	0.82	3.56
WestTrib	20122.3*	2-yr		130		6849.17	6850.09	6849.94	6850.27	0.02197	3.38	38.47	57.16	0.73	1.24	0.92
WestTrib	20122.3*	5-yr		270		6849.17	6850.47	6850.32	6850.76	0.023551	4.32	62.45	67.54	0.79	1.24	1.36
WestTrib	20122.3*	10-yr		420		6849.17	6850.61	6850.61	6851.14	0.03681	5.83	71.98	69.38	1.01	1.14	2.38
WestTrib	20122.3*	25-yr		810		6849.17	6851.21	6851.21	6851.96	0.032202	6.98	116.11	77.36	1	0.67	3.01
WestTrib	20122.3*	50-yr		1100		6849.17	6851.83		6852.51	0.019971	6.62	166.15	83.54	0.83	0.46	2.47
WestTrib	20122.3*	100-yr		1400		6849.17	6852.68		6853.2	0.010903	5.78	242.06	94.54	0.64	0.31	1.73
WestTrib	20081.7*	2-yr		130		6848.08	6848.75	6848.75	6849.02	0.044911	4.15	31.3	58.4	1	0.59	1.5
WestTrib	20081.7*	5-yr		270		6848.08	6849.09	6849.09	6849.51	0.040319	5.19	52.07	64.17	1.01	0.56	2.04
WestTrib	20081.7*	10-yr		420		6848.08	6849.61		6849.96	0.020114	4.71	89.21	75.37	0.76	0.4	1.48
WestTrib	20081.7*	25-yr		810		6848.08	6850.89		6851.16	0.006929	4.2	193.03	86.87	0.5	0.19	0.96
WestTrib	20081.7*	50-yr		1100		6848.08	6851.8		6852.05	0.004356	4	274.68	93.38	0.41	0.18	0.79
WestTrib	20081.7*	100-yr		1400		6848.08	6852.66		6852.89	0.003247	3.91	358.2	101.19	0.37	0.17	0.71

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	20041.14	2-yr		130		6847	6848.09	6847.6	6848.17	0.005576	2.32	56.08	73.18	0.4		0.37
WestTrib	20041.14	5-yr		270		6847	6848.77	6847.97	6848.9	0.004624	2.94	91.96	83.53	0.39		0.51
WestTrib	20041.14	10-yr		420		6847	6849.38	6848.28	6849.55	0.004153	3.39	123.8	87.35	0.39		0.61
WestTrib	20041.14	25-yr		810		6847	6850.7	6848.98	6850.97	0.003505	4.19	193.2	96.15	0.39		0.8
WestTrib	20041.14	50-yr		1100		6847	6851.54	6849.41	6851.87	0.003262	4.64	237.18	100.58	0.38		0.92
WestTrib	20041.14	100-yr		1400		6847	6852.33	6849.83	6852.72	0.003087	5.02	278.69	105.88	0.38		1.02
WestTrib	19961.38		Culvert													
WestTrib	19894.2	2-yr		130		6846	6846.6	6846.6	6846.89	0.041164	4.29	30.3	62.19	0.98	0.96	1.54
WestTrib	19894.2	5-yr		270		6846	6846.96	6846.96	6847.44	0.036715	5.55	48.63	64.83	1	0.74	2.21
WestTrib	19894.2	10-yr		420		6846	6847.3	6847.3	6847.94	0.032435	6.38	65.79	65.81	0.99	0.63	2.64
WestTrib	19894.2	25-yr		810		6846	6848	6848	6849	0.028713	8	101.2	70.38	1	0.67	3.59
WestTrib	19894.2	50-yr		1100		6846	6848.46	6848.46	6849.68	0.026663	8.85	124.33	77.87	0.99	0.74	4.1
WestTrib	19894.2	100-yr		1400		6846	6848.9	6848.9	6850.32	0.025009	9.56	146.47	85.47	0.99	0.78	4.53
WestTrib	19871.5*	2-yr		130		6844.86	6845.52	6845.52	6845.82	0.043393	4.43	29.34	48.26	1	0.28	1.64
WestTrib	19871.5*	5-yr		270		6844.86	6846.04		6846.41	0.02505	4.89	55.2	51.7	0.83	0.29	1.66
WestTrib	19871.5*	10-yr		420		6844.86	6846.54		6846.95	0.017067	5.13	81.87	53.21	0.73	0.29	1.62
WestTrib	19871.5*	25-yr		810		6844.86	6847.46		6848.03	0.015125	6.06	133.75	61.71	0.72	0.34	2.01
WestTrib	19871.5*	50-yr		1100		6844.86	6847.9		6848.61	0.01736	6.76	162.73	70.56	0.78	0.39	2.46
WestTrib	19871.5*	100-yr		1400		6844.86	6848.35		6849.14	0.017373	7.13	196.34	78.63	0.8	0.42	2.66
WestTrib	19848.8*	2-yr		130		6843.72	6845.31		6845.4	0.004084	2.36	55.14	39.29	0.35	0.06	0.35
WestTrib	19848.8*	5-yr		270		6843.72	6845.95		6846.12	0.005331	3.35	80.61	41.04	0.42	0.12	0.64
WestTrib	19848.8*	10-yr		420		6843.72	6846.39		6846.67	0.007462	4.22	99.6	46.16	0.51	0.19	0.98
WestTrib	19848.8*	25-yr		810		6843.72	6847.21		6847.7	0.012532	5.61	144.27	64.48	0.66	0.32	1.72
WestTrib	19848.8*	50-yr		1100		6843.72	6847.56		6848.22	0.016165	6.54	168.32	72.63	0.76	0.39	2.3
WestTrib	19848.8*	100-yr		1400		6843.72	6847.97		6848.72	0.019095	6.98	200.65	89.15	0.82	0.41	2.64
WestTrib	19826.1*	2-yr		130		6842.58	6845.27	6843.76	6845.33	0.001715	2.04	63.84	28.64	0.24	0.06	0.23
WestTrib	19826.1*	5-yr		270		6842.58	6845.83	6844.38	6846	0.005154	3.25	83.15	42.8	0.41	0.14	0.6
WestTrib	19826.1*	10-yr		420		6842.58	6846.21	6844.92	6846.48	0.00883	4.13	101.78	58.79	0.54	0.2	0.99
WestTrib	19826.1*	25-yr		810		6842.58	6847	6846.27	6847.38	0.01258	4.98	162.55	87.12	0.64	0.24	1.44
WestTrib	19826.1*	50-yr		1100		6842.58	6847.32	6846.84	6847.84	0.014026	5.75	191.36	89.79	0.69	0.28	1.83
WestTrib	19826.1*	100-yr		1400		6842.58	6847.73	6847.16	6848.31	0.013242	6.13	228.28	93.06	0.69	0.28	1.99
WestTrib	19803.51	2-yr		128		6841.44	6845.2		6845.27	0.005449	2.07	61.82	65.29	0.37	4.88	0.31
WestTrib	19803.51	5-yr		272		6841.44	6845.75	6844.5	6845.86	0.005756	2.6	104.58	82.13	0.41	4.97	0.45
WestTrib	19803.51	10-yr		423		6841.44	6846.13	6845.38	6846.28	0.00602	3.1	136.38	85.03	0.43	5	0.59
WestTrib	19803.51	25-yr		813		6841.44	6846.9	6845.92	6847.14	0.006401	4	203.44	90.77	0.47	5.12	0.87

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	19803.51	50-yr		1054		6841.44	6847.25	6846.21	6847.56	0.006809	4.47	236.03	93.38	0.49	5.17	1.04
WestTrib	19803.51	100-yr		1398		6841.44	6847.62	6846.57	6848.03	0.007829	5.15	271.24	96.05	0.54	5.15	1.34
WestTrib	19403.51	2-yr		128		6837.41	6840.1	6840.1	6840.38	0.047138	4.31	29.67	53.06	1.02	0.27	1.61
WestTrib	19403.51	5-yr		272		6837.41	6840.48	6840.48	6840.89	0.043053	5.18	52.55	67.12	1.03	0.65	2.07
WestTrib	19403.51	10-yr		423		6837.41	6840.79	6840.79	6841.28	0.038943	5.63	75.1	78.55	1.02	1.07	2.29
WestTrib	19403.51	25-yr		813		6837.41	6841.31	6841.31	6842.01	0.036184	6.71	121.15	92.35	1.03	2.09	2.92
WestTrib	19403.51	50-yr		1054		6837.41	6841.6	6841.6	6842.39	0.03243	7.13	147.78	94.66	1.01	2.6	3.11
WestTrib	19403.51	100-yr		1398		6837.41	6842.07	6841.93	6842.88	0.024399	7.24	193.06	97.54	0.91	2.99	2.97
WestTrib	19003.51	2-yr		128		6834.91	6838.29		6838.29	0.000126	0.57	224.12	99.38	0.07	0	0.02
WestTrib	19003.51	5-yr		272		6834.91	6838.56		6838.58	0.0004	1.08	251.18	101.38	0.12	0.01	0.06
WestTrib	19003.51	10-yr		423		6834.91	6838.76		6838.8	0.000755	1.55	272.17	102.91	0.17	0.02	0.12
WestTrib	19003.51	25-yr		813		6834.91	6839.17		6839.28	0.001789	2.58	314.81	106.02	0.26	0.06	0.33
WestTrib	19003.51	50-yr		1054		6834.91	6839.38		6839.53	0.002446	3.13	336.98	107.6	0.31	0.08	0.47
WestTrib	19003.51	100-yr		1398		6834.91	6839.67		6839.89	0.00329	3.8	368.29	109.8	0.37	0.12	0.68
WestTrib	18705.72	2-yr	14.35	108.87	4.78	6832.31	6838.29	6833.94	6838.29	0.000001	0.11	1517.73	415.25	0.01		0
WestTrib	18705.72	5-yr	33.56	228.04	10.4	6832.31	6838.57	6834.48	6838.57	0.000005	0.22	1633.16	424.57	0.02		0
WestTrib	18705.72	10-yr	55.66	350.87	16.47	6832.31	6838.78	6834.94	6838.78	0.000011	0.32	1724.53	432.19	0.03		0
WestTrib	18705.72	25-yr	120.7	659.54	32.73	6832.31	6839.21	6835.93	6839.22	0.00003	0.57	1915.97	450.7	0.04		0.01
WestTrib	18705.72	50-yr	166	844.92	43.1	6832.31	6839.44	6836.45	6839.45	0.000044	0.7	2017.66	455.98	0.05		0.01
WestTrib	18705.72	100-yr	233.3	1106.12	58.55	6832.31	6839.76	6837.13	6839.77	0.000064	0.88	2161.54	469.64	0.06		0.02
WestTrib	18654		Mult Open													
WestTrib	18554.84	2-yr		81.67	1.33	6822.79	6825.64	6824.65	6825.75	0.00256	2.63	34.11	48.62	0.49	0.06	0.14
WestTrib	18554.84	5-yr	0.15	226.43	8.42	6822.79	6825.93	6825.93	6826.36	0.012683	5.37	48.5	67.56	1.01	0.3	0.67
WestTrib	18554.84	10-yr	0.27	374.92	9.82	6822.79	6826.01	6826.01	6826.52	0.011081	5.79	72.2	68.15	0.98	0.39	0.72
WestTrib	18554.84	25-yr	15.88	709.06	48.06	6822.79	6829.07	6826.63	6829.21	0.00056	3.05	314.69	89.42	0.28	0.08	0.12
WestTrib	18554.84	50-yr	40.39	889.78	82.84	6822.79	6832.3	6826.97	6832.37	0.000134	2.17	637.06	115.95	0.15	0.04	0.04
WestTrib	18554.84	100-yr	64.42	1166.65	115.93	6822.79	6833.41	6827.41	6833.5	0.000145	2.48	775.56	133.49	0.17	0.04	0.05
WestTrib	18275.78	2-yr		83		6821.79	6825.68		6825.68	0.000012	0.21	389.46	283.32	0.03	0	0
WestTrib	18275.78	5-yr		235		6821.79	6825.7		6825.71	0.000093	0.59	395.41	283.48	0.09	0.02	0.01
WestTrib	18275.78	10-yr		385		6821.79	6825.9		6825.91	0.000161	0.85	451.48	285.01	0.12	0.05	0.02
WestTrib	18275.78	25-yr		773		6821.79	6829.13		6829.13	0.000016	0.55	1409.38	308.79	0.05	0.01	0
WestTrib	18275.78	50-yr		1013		6821.79	6832.33		6832.33	0.000005	0.42	2436.29	331.73	0.03	0.01	0
WestTrib	18275.78	100-yr		1347		6821.79	6833.45		6833.45	0.000006	0.48	2811.35	339.72	0.03	0.01	0
WestTrib	17889.25	2-yr		83		6820.6	6825.68	6821.76	6825.68	0.000005	0.26	320.18	84.65	0.02		0
WestTrib	17889.25	5-yr		235		6820.6	6825.68	6822.34	6825.69	0.000038	0.73	320.1	84.65	0.07		0.01

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17889.25	10-yr		385		6820.6	6825.85	6822.82	6825.87	0.000091	1.15	334.27	85.57	0.1		0.02
WestTrib	17889.25	25-yr		773		6820.6	6829.1	6823.79	6829.12	0.000054	1.2	642.27	104.27	0.09		0.02
WestTrib	17889.25	50-yr		1013		6820.6	6832.31	6824.25	6832.33	0.000026	1	1008.47	123.34	0.06		0.01
WestTrib	17889.25	100-yr	0.21	1345.86	0.93	6820.6	6833.42	6824.96	6833.45	0.000031	1.17	1172.57	205.09	0.09		0.01
WestTrib	17884		Culvert													
WestTrib	17881.36	2-yr		83		6820.95	6823.17	6821.59	6823.19	0.000198	1.17	70.66	46.48	0.14	0	0.03
WestTrib	17881.36	5-yr		235		6820.95	6824.66	6822.18	6824.69	0.000181	1.38	170.3	54.6	0.14	0	0.03
WestTrib	17881.36	10-yr		385		6820.95	6825.81	6822.58	6825.85	0.000192	1.62	237.15	62.38	0.15	0.01	0.04
WestTrib	17881.36	25-yr		773		6820.95	6829.08	6823.49	6829.12	0.000111	1.63	474.16	81.78	0.12	0.01	0.04
WestTrib	17881.36	50-yr		1013		6820.95	6832.26	6823.61	6832.29	0.000051	1.33	763.85	99.85	0.08	0.01	0.02
WestTrib	17881.36	100-yr	1.24	1344.81	0.95	6820.95	6833.39	6824.13	6833.43	0.000058	1.53	910.7	192.82	0.12	0	0.02
WestTrib	17876	2-yr		83		6821.16	6823.17	6821.8	6823.19	0.000209	1.03	80.42	44.43	0.14		0.02
WestTrib	17876	5-yr		235		6821.16	6824.65	6822.31	6824.69	0.000246	1.6	147.19	46.22	0.16		0.05
WestTrib	17876	10-yr		385		6821.16	6825.78	6822.7	6825.84	0.000252	1.92	200.46	48.1	0.16		0.06
WestTrib	17876	25-yr		773		6821.16	6829.04	6823.5	6829.11	0.000154	2.12	364.08	71.93	0.14		0.06
WestTrib	17876	50-yr		1013		6821.16	6832.22	6823.93	6832.28	0.000077	1.93	525.84	88.29	0.11		0.04
WestTrib	17876	100-yr	0.74	1345.48	0.78	6821.16	6833.38	6824.45	6833.42	0.000083	1.77	781.77	162.82	0.14		0.02
WestTrib	17840		Culvert													
WestTrib	17784.85	2-yr		83		6820.15	6821.33	6821.14	6821.47	0.032711	2.92	28.39	74.08	0.63	1.02	1.36
WestTrib	17784.85	5-yr		200		6820.15	6821.77	6821.57	6822.03	0.036481	4.09	48.92	83.07	0.71	1.01	2.31
WestTrib	17784.85	10-yr		380		6820.15	6822.24	6822	6822.68	0.037121	5.31	71.53	86.76	0.77	0.92	3.43
WestTrib	17784.85	25-yr		770		6820.15	6823.18	6822.75	6823.86	0.029915	6.6	116.58	98.17	0.75	0.85	4.51
WestTrib	17784.85	50-yr		940		6820.15	6823.55	6823.06	6824.31	0.027898	7.01	134.18	105.05	0.74	0.83	4.84
WestTrib	17784.85	100-yr		1100		6820.15	6823.87	6823.27	6824.71	0.026537	7.35	149.68	110.88	0.73	0.82	5.13
WestTrib	17759.6*	2-yr		83		6819.4	6820.39		6820.45	0.015337	2	41.57	62.25	0.43	0.67	0.63
WestTrib	17759.6*	5-yr		200		6819.4	6820.92		6821.02	0.01307	2.57	77.71	70.46	0.43	0.5	0.89
WestTrib	17759.6*	10-yr		380		6819.4	6821.62		6821.76	0.009692	2.93	129.53	77.04	0.4	0.4	1.01
WestTrib	17759.6*	25-yr		770		6819.4	6822.84		6823.01	0.007334	3.26	235.86	96.94	0.37	0.3	1.1
WestTrib	17759.6*	50-yr		940		6819.4	6823.31		6823.48	0.00641	3.32	282.76	102.18	0.35	0.26	1.09
WestTrib	17759.6*	100-yr		1100		6819.4	6823.71		6823.89	0.00582	3.39	324.34	105.73	0.34	0.24	1.1
WestTrib	17734.3*	2-yr		83		6818.66	6819.71		6819.78	0.014061	2.06	40.25	53.8	0.42	0.48	0.65
WestTrib	17734.3*	5-yr		200		6818.66	6820.43		6820.52	0.009336	2.45	81.57	61.81	0.38	0.37	0.76
WestTrib	17734.3*	10-yr		380		6818.66	6821.23		6821.35	0.007928	2.79	136.19	75.22	0.37	0.32	0.89
WestTrib	17734.3*	25-yr		770		6818.66	6822.56		6822.71	0.005621	3.11	247.22	89.24	0.33	0.23	0.96
WestTrib	17734.3*	50-yr		940		6818.66	6823.06		6823.22	0.005069	3.21	292.84	93.42	0.32	0.22	0.98

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17734.3*	100-yr		1100		6818.66	6823.48		6823.65	0.004794	3.31	332.63	97.22	0.32	0.21	1.01
WestTrib	17709.1*	2-yr		83		6817.91	6819.25		6819.3	0.008077	1.87	44.43	45.46	0.33	0.3	0.49
WestTrib	17709.1*	5-yr		200		6817.91	6820.06		6820.15	0.007166	2.3	86.8	59.29	0.34	0.29	0.65
WestTrib	17709.1*	10-yr		380		6817.91	6820.93		6821.03	0.006082	2.64	143.97	70.84	0.33	0.25	0.76
WestTrib	17709.1*	25-yr		770		6817.91	6822.33		6822.48	0.004675	3.08	249.87	79.64	0.31	0.21	0.9
WestTrib	17709.1*	50-yr		940		6817.91	6822.84		6823	0.004525	3.22	291.76	84.83	0.31	0.21	0.96
WestTrib	17709.1*	100-yr		1100		6817.91	6823.27		6823.44	0.004344	3.35	327.99	86.86	0.3	0.21	1.01
WestTrib	17683.8*	2-yr		83		6817.17	6818.95		6819	0.005562	1.7	48.76	43.41	0.28	0.25	0.39
WestTrib	17683.8*	5-yr		200		6817.17	6819.78		6819.85	0.005756	2.2	91.05	56.7	0.31	0.26	0.57
WestTrib	17683.8*	10-yr		380		6817.17	6820.67		6820.78	0.005064	2.64	143.97	61.55	0.3	0.25	0.73
WestTrib	17683.8*	25-yr		770		6817.17	6822.1		6822.27	0.004631	3.24	237.44	69.29	0.31	0.24	0.97
WestTrib	17683.8*	50-yr		940		6817.17	6822.61		6822.79	0.004704	3.43	273.75	74.1	0.31	0.25	1.06
WestTrib	17683.8*	100-yr		1100		6817.17	6823.03		6823.23	0.004636	3.6	305.39	75.88	0.32	0.25	1.14
WestTrib	17658.61	2-yr		83		6816.42	6818.71	6817.81	6818.75	0.005218	1.69	49.13	42.19	0.28		0.38
WestTrib	17658.61	5-yr		200		6816.42	6819.51	6818.4	6819.59	0.005635	2.35	85.09	46.91	0.31		0.63
WestTrib	17658.61	10-yr		380		6816.42	6820.4	6818.92	6820.53	0.00578	2.95	128.78	51.14	0.33		0.89
WestTrib	17658.61	25-yr		770		6816.42	6821.81	6819.73	6822.02	0.005952	3.75	205.45	57.82	0.35		1.29
WestTrib	17658.61	50-yr		940		6816.42	6822.29	6820.06	6822.54	0.006232	4	234.73	62.59	0.36		1.44
WestTrib	17658.61	100-yr		1100		6816.42	6822.71	6820.31	6822.98	0.006194	4.22	260.68	64.22	0.37		1.55
WestTrib	17647.61		Bridge													
WestTrib	17638.04	2-yr		83		6816.42	6818.23	6817.99	6818.46	0.037734	3.81	21.78	24.24	0.71	0.74	2.09
WestTrib	17638.04	5-yr		200		6816.42	6818.9	6818.66	6819.28	0.039381	4.89	40.88	32.26	0.77	0.71	3.08
WestTrib	17638.04	10-yr		380		6816.42	6819.57	6819.28	6820.13	0.037554	5.97	63.64	35.72	0.79	0.68	4.1
WestTrib	17638.04	25-yr		770		6816.42	6820.69	6820.28	6821.5	0.033598	7.25	106.26	40.62	0.79	0.68	5.33
WestTrib	17638.04	50-yr		940		6816.42	6821.1	6820.64	6822	0.032178	7.61	123.58	42.38	0.78	0.67	5.67
WestTrib	17638.04	100-yr		1100		6816.42	6821.48	6820.92	6822.44	0.030886	7.88	139.67	43.96	0.78	0.66	5.91
WestTrib	17616.3*	2-yr		83		6816.05	6817.55		6817.72	0.02851	3.31	25.06	27.95	0.62	0.28	1.58
WestTrib	17616.3*	5-yr		200		6816.05	6818.33		6818.57	0.022834	3.89	51.36	37.99	0.59	0.28	1.91
WestTrib	17616.3*	10-yr		380		6816.05	6819.11		6819.44	0.019479	4.61	82.49	41.82	0.58	0.29	2.36
WestTrib	17616.3*	25-yr		770		6816.05	6820.33		6820.83	0.017515	5.63	136.87	47.02	0.58	0.31	3.1
WestTrib	17616.3*	50-yr		940		6816.05	6820.79		6821.33	0.016899	5.93	158.49	48.8	0.58	0.31	3.32
WestTrib	17616.3*	100-yr		1100		6816.05	6821.19		6821.78	0.01634	6.17	178.36	50.36	0.58	0.31	3.5
WestTrib	17594.5*	2-yr		83		6815.68	6817.39		6817.44	0.005979	1.77	46.79	41.25	0.29	0.06	0.42
WestTrib	17594.5*	5-yr		200		6815.68	6818.2		6818.29	0.006252	2.44	82.13	46.33	0.32	0.09	0.68
WestTrib	17594.5*	10-yr		380		6815.68	6818.99		6819.15	0.007	3.16	120.44	49.85	0.36	0.11	1.03

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17594.5*	25-yr		770		6815.68	6820.25		6820.51	0.0077	4.14	186.08	54.55	0.39	0.14	1.59
WestTrib	17594.5*	50-yr		940		6815.68	6820.71		6821.02	0.007794	4.44	211.74	56.18	0.4	0.15	1.77
WestTrib	17594.5*	100-yr		1100		6815.68	6821.12		6821.46	0.007816	4.68	235.13	57.62	0.41	0.16	1.92
WestTrib	17572.8*	2-yr		83		6815.31	6817.37		6817.38	0.001195	1	83.08	51.57	0.14	0.02	0.12
WestTrib	17572.8*	5-yr		200		6815.31	6818.17		6818.2	0.001929	1.59	125.88	55.53	0.19	0.03	0.27
WestTrib	17572.8*	10-yr		380		6815.31	6818.96		6819.04	0.002693	2.22	171.06	58.24	0.23	0.05	0.48
WestTrib	17572.8*	25-yr		770		6815.31	6820.22		6820.37	0.003596	3.12	246.92	62.17	0.28	0.07	0.86
WestTrib	17572.8*	50-yr		940		6815.31	6820.69		6820.87	0.003817	3.4	276.28	63.61	0.29	0.07	1
WestTrib	17572.8*	100-yr		1100		6815.31	6821.1		6821.3	0.003965	3.63	302.92	64.9	0.3	0.08	1.11
WestTrib	17551.13	2-yr		83		6814.94	6817.36	6815.46	6817.36	0.000391	0.73	113.9	61.72	0.08		0.06
WestTrib	17551.13	5-yr		200		6814.94	6818.14	6815.84	6818.17	0.000855	1.31	152.65	64.02	0.13		0.16
WestTrib	17551.13	10-yr		380		6814.94	6818.92	6816.28	6818.99	0.001462	1.99	191.01	66.25	0.18		0.35
WestTrib	17551.13	25-yr		770		6814.94	6820.16	6817.01	6820.3	0.002392	3.06	251.71	69.53	0.24		0.76
WestTrib	17551.13	50-yr		940		6814.94	6820.61	6817.28	6820.8	0.002686	3.43	274.03	70.74	0.26		0.92
WestTrib	17551.13	100-yr		1100		6814.94	6821.01	6817.56	6821.23	0.002925	3.75	293.53	71.79	0.27		1.08
WestTrib	17517.42		Culvert													
WestTrib	17465.45	2-yr		83		6814.83	6817.33	6815.38	6817.34	0.000293	0.84	98.9	44.87	0.1	0.02	0.04
WestTrib	17465.45	5-yr	0.02	199.98		6814.83	6818.07	6815.81	6818.11	0.000671	1.5	133.12	47.12	0.16	0.03	0.11
WestTrib	17465.45	10-yr	0.18	379.82		6814.83	6818.77	6816.33	6818.85	0.001211	2.29	166.38	48.96	0.22	0.06	0.24
WestTrib	17465.45	25-yr	1.13	768.87		6814.83	6819.77	6817.2	6819.97	0.002206	3.57	217.91	56.2	0.32	0.12	0.5
WestTrib	17465.45	50-yr	3.01	936.95	0.04	6814.83	6820.12	6817.55	6820.37	0.002547	4.03	238.18	61.72	0.36	0.14	0.58
WestTrib	17465.45	100-yr	6.06	1093.68	0.25	6814.83	6820.4	6817.82	6820.71	0.002838	4.42	256.53	66.11	0.39	0.16	0.65
WestTrib	17443.5*	2-yr	0	83		6815.17	6817.3		6817.33	0.000955	1.28	64.7	38.66	0.17	0.04	0.1
WestTrib	17443.5*	5-yr	0.15	199.85		6815.17	6818		6818.07	0.001832	2.16	92.78	41.61	0.26	0.07	0.25
WestTrib	17443.5*	10-yr	0.67	379.33		6815.17	6818.63		6818.78	0.003085	3.2	120.08	48.08	0.36	0.11	0.47
WestTrib	17443.5*	25-yr	10.58	758.07	1.36	6815.17	6819.49		6819.85	0.004983	4.86	169.49	67.41	0.54	0.18	0.76
WestTrib	17443.5*	50-yr	20.36	916.48	3.16	6815.17	6819.78		6820.23	0.005627	5.44	189.95	73.47	0.59	0.2	0.89
WestTrib	17443.5*	100-yr	32.13	1062.34	5.54	6815.17	6820.02		6820.55	0.0062	5.94	208.03	77.93	0.63	0.24	1.01
WestTrib	17421.6*	2-yr	0.11	82.89		6815.5	6817.22		6817.29	0.003809	2.05	40.63	34.7	0.33	0.11	0.28
WestTrib	17421.6*	5-yr	2.33	197.43	0.23	6815.5	6817.85		6818	0.005405	3.15	67.04	51.15	0.48	0.13	0.44
WestTrib	17421.6*	10-yr	14.93	361.82	3.25	6815.5	6818.38		6818.67	0.007484	4.42	98.04	64	0.62	0.18	0.71
WestTrib	17421.6*	25-yr	60.82	690.09	19.09	6815.5	6819.1		6819.67	0.010931	6.41	147.8	75.04	0.77	0.28	1.33
WestTrib	17421.6*	50-yr	84.16	827.44	28.4	6815.5	6819.31		6820.03	0.012401	7.16	164.66	78.36	0.82	0.32	1.61
WestTrib	17421.6*	100-yr	103	961.34	35.69	6815.5	6819.4	6819.14	6820.31	0.015273	8.09	171.72	79.71	0.92	0.4	2.04
WestTrib	17399.67	2-yr	10.56	71.33	4.11	6815.83	6817.1		6817.18	0.006237	2.4	45.24	59.34	0.45	0.99	0.3

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	17399.67	5-yr	34.53	157.02	18.45	6815.83	6817.74		6817.87	0.006099	3.26	86.71	72.12	0.47	1.37	0.46
WestTrib	17399.67	10-yr	70.46	273.36	46.19	6815.83	6818.27		6818.49	0.007389	4.32	128.64	86.43	0.54	1.61	0.68
WestTrib	17399.67	25-yr	134.2	515.42	140.4	6815.83	6818.97		6819.39	0.010365	6.16	193.71	101	0.66	1.96	1.24
WestTrib	17399.67	50-yr	169.3	615.76	184.97	6815.83	6819.2		6819.7	0.011583	6.83	216.43	104.46	0.7	2.08	1.49
WestTrib	17399.67	100-yr	195.4	687.02	217.62	6815.83	6819.33		6819.9	0.012463	7.3	231.17	106.64	0.72	2.16	1.68
WestTrib	17281.4	2-yr		86		6815.35	6816.11		6816.18	0.011725	2.05	41.89	82.19	0.51	6.01	0.37
WestTrib	17281.4	5-yr	0.84	209.16		6815.35	6816.28	6816.2	6816.5	0.029382	3.74	57.26	105.02	0.89	5.77	1
WestTrib	17281.4	10-yr	10.78	379.22		6815.35	6816.55	6816.53	6816.88	0.032266	4.64	90.72	143.25	1.02	5.71	1.27
WestTrib	17281.4	25-yr	70.01	717.11	2.88	6815.35	6816.98	6816.97	6817.43	0.030705	5.59	164.8	202.16	1.05	5.78	1.56
WestTrib	17281.4	50-yr	100.6	859.91	9.47	6815.35	6817.13	6817.13	6817.62	0.029834	5.92	196.19	226.33	1.07	5.74	1.61
WestTrib	17281.4	100-yr	123.1	959.44	17.49	6815.35	6817.22	6817.22	6817.74	0.028887	6.13	218.44	231.52	1.05	5.3	1.7
WestTrib	16985.18	2-yr	0	83.7	2.3	6809.23	6809.96	6809.95	6810.17	0.042938	3.73	24.56	62.17	1.03	7.82	1.06
WestTrib	16985.18	5-yr	3.06	182.47	24.46	6809.23	6810.55		6810.73	0.013816	3.63	73.77	132.8	0.81	8.16	0.48
WestTrib	16985.18	10-yr	10.93	295.64	83.43	6809.23	6810.94	6810.73	6811.16	0.012687	4.29	146.3	248.19	0.87	8.3	0.47
WestTrib	16985.18	25-yr	33.49	470.67	285.83	6809.23	6811.38	6811.32	6811.65	0.013278	5.24	295.54	380.51	0.83	8.34	0.64
WestTrib	16985.18	50-yr	45.61	529.71	394.68	6809.23	6811.52	6811.44	6811.8	0.013342	5.5	348.01	389.9	0.79	8.34	0.74
WestTrib	16985.18	100-yr	56.41	556.41	487.18	6809.23	6811.65	6811.48	6811.91	0.011855	5.41	401.77	399.36	0.71	8.36	0.74
WestTrib	16577.83	2-yr	0.29	44.99	40.71	6800.68	6802.3		6802.35	0.010739	2.2	60.89	154.26	0.49	5.47	0.26
WestTrib	16577.83	5-yr	1.85	102.46	105.7	6800.68	6802.42	6802.34	6802.58	0.031532	4.2	80.95	190.07	0.87	5.27	0.84
WestTrib	16577.83	10-yr	7.83	169.32	212.85	6800.68	6802.62	6802.58	6802.87	0.037935	5.41	123.7	234.17	0.97	5.27	1.25
WestTrib	16577.83	25-yr	32.74	289.08	468.18	6800.68	6802.99	6802.95	6803.31	0.035522	6.57	229.49	340.04	0.97	5.38	1.5
WestTrib	16577.83	50-yr	46.37	334.69	588.94	6800.68	6803.11	6803.08	6803.45	0.035272	6.95	271.96	363.74	0.96	5.4	1.64
WestTrib	16577.83	100-yr	53.38	377.32	669.3	6800.68	6803.12	6803.12	6803.55	0.043552	7.77	276.41	365.98	1.06	5.31	2.05
WestTrib	16177.83	2-yr	5.5	43.09	37.41	6795.39	6796.83		6796.89	0.018003	1.67	47.4	133.17	0.57	5.88	0.4
WestTrib	16177.83	5-yr	15.34	149.92	44.74	6795.39	6797.29	6796.91	6797.32	0.007114	1.56	162.55	347.08	0.36	6.02	0.21
WestTrib	16177.83	10-yr	27.09	285.89	77.02	6795.39	6797.56	6797.11	6797.6	0.006516	1.86	272.41	493.05	0.39	5.92	0.22
WestTrib	16177.83	25-yr	52.96	541.88	195.17	6795.39	6797.86	6797.4	6797.93	0.006878	2.45	426.22	516.62	0.41	5.79	0.35
WestTrib	16177.83	50-yr	66.94	652.84	250.23	6795.39	6797.98	6797.47	6798.06	0.006925	2.64	485.87	522.94	0.42	5.74	0.4
WestTrib	16177.83	100-yr	78.06	728.37	293.57	6795.39	6798.09	6797.59	6798.18	0.006158	2.66	547.53	529.4	0.4	5.74	0.4
WestTrib	15777.83	2-yr		52.19	33.81	6789.78	6790.95		6791.01	0.012233	2.13	44.34	72.75	0.45	4.06	0.46
WestTrib	15777.83	5-yr		128.75	81.25	6789.78	6791.05	6791	6791.31	0.049951	4.36	52.06	82.85	0.91	3.7	1.95
WestTrib	15777.83	10-yr	0.02	249.08	140.9	6789.78	6791.4	6791.4	6791.68	0.060038	4.31	91.85	167.03	1.01	2.64	2.05
WestTrib	15777.83	25-yr	2.97	586.6	200.44	6789.78	6791.76	6791.76	6792.15	0.04699	5.3	164.16	218.11	1.01	2.11	2.2
WestTrib	15777.83	50-yr	5.62	733.67	230.7	6789.78	6791.88	6791.88	6792.32	0.04472	5.7	192.49	269.4	1.1	2.2	1.99
WestTrib	15777.83	100-yr	6.01	830.29	263.7	6789.78	6791.87	6791.87	6792.45	0.061527	6.59	187.69	252.86	1.26	2.48	2.84
WestTrib	15497.53	2-yr		65.52	20.48	6785.8	6786.88		6786.95	0.017438	2.17	41.57	91.35	0.55	0.31	0.49

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	15497.53	5-yr		178.98	31.02	6785.8	6787.54		6787.6	0.005845	2.1	112.7	134.33	0.38	0.17	0.31
WestTrib	15497.53	10-yr		322.35	67.65	6785.8	6788.14		6788.21	0.003547	2.17	205.32	159.73	0.32	0.13	0.28
WestTrib	15497.53	25-yr	9.63	631.67	148.7	6785.8	6788.98		6789.07	0.002784	2.63	359.42	213.97	0.33	0.13	0.29
WestTrib	15497.53	50-yr	19.67	766.81	183.52	6785.8	6789.2		6789.31	0.002959	2.89	408.75	228.66	0.35	0.15	0.33
WestTrib	15497.53	100-yr	27.42	864.02	208.57	6785.8	6789.33		6789.46	0.003143	3.09	439.8	243.02	0.37	0.16	0.35
WestTrib	15436.09	2-yr	0.19	68.67	17.14	6784.87	6786.62		6786.64	0.002171	1.25	77.12	94.66	0.23	0.11	0.11
WestTrib	15436.09	5-yr	7.55	164.51	37.94	6784.87	6787.4		6787.43	0.001448	1.57	170.51	179.21	0.26	0.05	0.09
WestTrib	15436.09	10-yr	52.03	274.95	63.02	6784.87	6788.03		6788.07	0.001373	1.9	292.79	208.57	0.25	0.04	0.12
WestTrib	15436.09	25-yr	178.6	496.18	115.2	6784.87	6788.87		6788.93	0.001568	2.5	482.61	246.03	0.26	0.04	0.19
WestTrib	15436.09	50-yr	236.1	595.04	138.86	6784.87	6789.08		6789.16	0.00181	2.81	535.84	257.48	0.28	0.04	0.23
WestTrib	15436.09	100-yr	278.1	666.03	155.92	6784.87	6789.2		6789.3	0.002014	3.03	567.16	263.99	0.3	0.05	0.27
WestTrib	15417.5*	2-yr		83.86	2.14	6784.45	6786.35	6786.18	6786.53	0.025425	3.48	25.89	44.26	0.79	0.61	0.91
WestTrib	15417.5*	5-yr	10.17	184.17	15.66	6784.45	6787.3		6787.38	0.005223	2.42	110.08	158.83	0.48	0.25	0.22
WestTrib	15417.5*	10-yr	71.7	283.7	34.6	6784.45	6787.97		6788.03	0.002896	2.41	238.55	214.9	0.35	0.08	0.2
WestTrib	15417.5*	25-yr	232	484.91	73.11	6784.45	6788.81		6788.9	0.002443	2.83	440.9	263.34	0.32	0.06	0.25
WestTrib	15417.5*	50-yr	302.3	577.47	90.24	6784.45	6789.02		6789.12	0.002718	3.14	496.33	277.15	0.34	0.06	0.3
WestTrib	15417.5*	100-yr	355.7	642.07	102.24	6784.45	6789.13		6789.25	0.00295	3.36	529.01	282.22	0.35	0.06	0.34
WestTrib	15398.9*	2-yr		86		6784.02	6785.36	6785.34	6785.92	0.038637	5.98	14.38	12.45	0.98	0.75	2.5
WestTrib	15398.9*	5-yr		210		6784.02	6786.59	6786.59	6787.13	0.038719	5.88	35.69	33.23	1	0.58	2.44
WestTrib	15398.9*	10-yr	84.09	300.21	5.7	6784.02	6787.83		6787.95	0.006223	3.12	183.74	210.77	0.53	0.14	0.34
WestTrib	15398.9*	25-yr	283.9	476.07	30.07	6784.02	6788.74		6788.84	0.003484	3.13	411.12	284.38	0.37	0.07	0.31
WestTrib	15398.9*	50-yr	371.5	558.25	40.29	6784.02	6788.94		6789.06	0.003678	3.39	470.12	294.84	0.38	0.07	0.36
WestTrib	15398.9*	100-yr	434	618.43	47.53	6784.02	6789.06		6789.18	0.003937	3.6	503.4	300.29	0.39	0.08	0.41
WestTrib	15380.4*	2-yr		86		6783.6	6784.66	6784.66	6785.16	0.040816	5.69	15.12	15.13	1	0.49	2.35
WestTrib	15380.4*	5-yr		210		6783.6	6785.72		6786.39	0.024892	6.56	32	16.79	0.84	0.35	2.57
WestTrib	15380.4*	10-yr	56.7	333.3		6783.6	6787.61		6787.81	0.008435	3.85	144.26	180	0.7	0.15	0.41
WestTrib	15380.4*	25-yr	323.9	463.72	2.41	6783.6	6788.66		6788.77	0.004158	3.26	397.93	300.67	0.4	0.07	0.34
WestTrib	15380.4*	50-yr	424.1	540.35	5.53	6783.6	6788.87		6788.99	0.004285	3.5	460.55	315.22	0.4	0.07	0.39
WestTrib	15380.4*	100-yr	495.3	596.57	8.18	6783.6	6788.97		6789.1	0.004553	3.7	494.7	320.44	0.41	0.08	0.43
WestTrib	15361.8*	2-yr		86		6783.17	6784.43		6784.64	0.013175	3.68	23.37	19.14	0.59	0.18	0.92
WestTrib	15361.8*	5-yr		210		6783.17	6785.75		6786.03	0.007739	4.24	49.53	20.49	0.48	0.16	1
WestTrib	15361.8*	10-yr	42.67	347.34		6783.17	6787.46		6787.66	0.007261	3.77	136.2	157.5	0.68	0.08	0.38
WestTrib	15361.8*	25-yr	313.4	476.64		6783.17	6788.6		6788.7	0.003322	3.24	426.23	311.14	0.39	0.05	0.28
WestTrib	15361.8*	50-yr	421.1	548.91		6783.17	6788.79		6788.91	0.003586	3.49	489.35	324.64	0.4	0.06	0.33
WestTrib	15361.8*	100-yr	497.6	602.36		6783.17	6788.9		6789.03	0.00394	3.7	522.83	331.9	0.41	0.07	0.38
WestTrib	15343.33	2-yr		86		6782.75	6784.38	6783.53	6784.46	0.003721	2.31	37.19	23.35	0.32		0.33

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	15343.33	5-yr		210		6782.75	6785.73	6784.14	6785.88	0.003194	3.02	69.43	24.24	0.31		0.48
WestTrib	15343.33	10-yr		390		6782.75	6787.39	6784.87	6787.58	0.002747	3.53	110.46	137.21	0.3		0.59
WestTrib	15343.33	25-yr	293.7	496.27		6782.75	6788.53	6786.11	6788.65	0.002286	3.38	465.5	356.3	0.41		0.19
WestTrib	15343.33	50-yr	403.9	566.14		6782.75	6788.72	6786.59	6788.85	0.002592	3.7	529.23	366.52	0.41		0.24
WestTrib	15343.33	100-yr	478.9	621.1		6782.75	6788.81	6786.9	6788.96	0.002927	3.98	560.36	371.78	0.43		0.29
WestTrib	15318.93		Culvert													
WestTrib	15286.98	2-yr	0.4	85.6		6782.59	6783.57	6783.32	6783.75	0.015139	3.42	25.71	39.2	0.67	0.27	0.75
WestTrib	15286.98	5-yr	6.96	203.04		6782.59	6784.19	6783.91	6784.54	0.016085	4.8	45.89	47.92	0.71	0.3	1.35
WestTrib	15286.98	10-yr	18.99	371.02		6782.59	6784.72	6784.5	6785.33	0.019875	6.38	64.27	57.8	0.81	0.4	2.23
WestTrib	15286.98	25-yr	47.43	742.57		6782.59	6785.47	6785.47	6786.72	0.026856	9.15	90.88	74.71	0.99	0.64	4.2
WestTrib	15286.98	50-yr	61.5	908.5		6782.59	6785.83	6785.83	6787.27	0.026184	9.84	103.74	98.14	0.99	0.7	4.67
WestTrib	15286.98	100-yr	71.9	1028.1		6782.59	6786.09	6786.09	6787.65	0.025488	10.26	112.88	116.04	0.99	0.73	4.95
WestTrib	15268.7*	2-yr	2.35	83.65		6782.18	6783.31		6783.49	0.0139	3.44	27.25	37.94	0.71	0.26	0.62
WestTrib	15268.7*	5-yr	22.4	187.6		6782.18	6783.93		6784.23	0.014571	4.65	54.16	49.41	0.74	0.27	0.99
WestTrib	15268.7*	10-yr	63.66	325.97	0.36	6782.18	6784.47		6784.93	0.01651	5.89	84.49	65.28	0.85	0.3	1.32
WestTrib	15268.7*	25-yr	172.9	607.25	9.87	6782.18	6785.2	6784.95	6785.99	0.019711	7.97	140.57	100.97	1.07	0.4	1.7
WestTrib	15268.7*	50-yr	231.3	710.68	28.02	6782.18	6785.48	6785.48	6786.34	0.019335	8.44	171.23	116.47	1.08	0.37	1.77
WestTrib	15268.7*	100-yr	271.9	783.99	44.12	6782.18	6785.64	6785.64	6786.56	0.019782	8.84	190.35	125.26	1.1	0.39	1.87
WestTrib	15250.4*	2-yr	4.54	81.46		6781.77	6783.05		6783.23	0.014029	3.52	27.77	38.5	0.71	0.28	0.63
WestTrib	15250.4*	5-yr	29.98	180	0.01	6781.77	6783.65		6783.96	0.015424	4.75	55.73	56.11	0.79	0.35	0.95
WestTrib	15250.4*	10-yr	78.26	307.55	4.19	6781.77	6784.16	6783.96	6784.62	0.016724	6.03	89.26	73.97	0.87	0.39	1.25
WestTrib	15250.4*	25-yr	196.3	563.66	30.02	6781.77	6784.75	6784.75	6785.6	0.0236	8.52	144.27	114.89	1.16	0.46	1.84
WestTrib	15250.4*	50-yr	251.2	642.66	76.15	6781.77	6785.19	6785.19	6785.94	0.018117	8.29	203.44	153.78	1.06	0.38	1.49
WestTrib	15250.4*	100-yr	291	704.71	104.25	6781.77	6785.34	6785.34	6786.13	0.018615	8.67	226.57	163.42	1.07	0.39	1.61
WestTrib	15232.1*	2-yr	7.15	78.85		6781.37	6782.75		6782.95	0.017116	3.74	27.39	41.93	0.78	0.31	0.7
WestTrib	15232.1*	5-yr	34.61	174.59	0.8	6781.37	6783.2	6783.13	6783.6	0.023418	5.56	50.61	62.4	1	0.39	1.18
WestTrib	15232.1*	10-yr	90.97	291.55	7.49	6781.37	6783.63	6783.63	6784.23	0.02616	7.06	82.42	88.91	1.14	0.45	1.51
WestTrib	15232.1*	25-yr	247.8	464.91	77.34	6781.37	6784.49	6784.49	6785.06	0.017918	7.6	194.45	165.82	0.98	0.36	1.31
WestTrib	15232.1*	50-yr	327.2	530.84	111.96	6781.37	6784.69	6784.69	6785.3	0.018409	8.07	228.06	175.82	0.97	0.37	1.49
WestTrib	15232.1*	100-yr	384.2	573.76	142	6781.37	6784.82	6784.82	6785.45	0.01845	8.34	252.05	180.56	0.95	0.37	1.61
WestTrib	15213.92	2-yr	11.22	74.37	0.42	6780.96	6782.44	6782.3	6782.64	0.017071	3.78	30.79	60.39	0.87	1.41	0.54
WestTrib	15213.92	5-yr	57.63	144.81	7.55	6780.96	6782.96	6782.83	6783.22	0.015373	4.78	76.15	119.24	0.89	1.43	0.61
WestTrib	15213.92	10-yr	143.8	216.47	29.74	6780.96	6783.35		6783.65	0.015954	5.68	125.74	137.47	0.82	1.35	0.91
WestTrib	15213.92	25-yr	345.3	343.96	100.74	6780.96	6783.95		6784.33	0.015858	6.83	218.04	167.28	0.77	1.31	1.29
WestTrib	15213.92	50-yr	433.5	395.4	141.11	6780.96	6784.16		6784.58	0.015918	7.23	254.77	177.7	0.76	1.33	1.42
WestTrib	15213.92	100-yr	495.8	429.46	174.77	6780.96	6784.31		6784.74	0.015745	7.44	281.2	183.45	0.75	1.33	1.5

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	15142.8	2-yr	2.93	82.54	0.53	6779.75	6781.02	6780.93	6781.22	0.023139	3.71	26.32	54.75	0.92	1.2	0.69
WestTrib	15142.8	5-yr	23.27	180	6.73	6779.75	6781.41	6781.41	6781.79	0.026902	5.3	52.31	77.46	1.06	1.17	1.13
WestTrib	15142.8	10-yr	73.21	289.09	27.7	6779.75	6781.87	6781.87	6782.31	0.022354	6.06	99.49	118.27	1.02	1.01	1.17
WestTrib	15142.8	25-yr	219	480.65	90.34	6779.75	6782.48	6782.48	6783.02	0.021099	7.3	188.12	172.1	1	1.04	1.44
WestTrib	15142.8	50-yr	284.2	554.13	131.64	6779.75	6782.66	6782.66	6783.25	0.021483	7.77	220.64	182.17	0.99	1.07	1.62
WestTrib	15142.8	100-yr	330.8	606.14	163.08	6779.75	6782.77	6782.77	6783.4	0.022014	8.11	241.72	188.4	0.99	1.12	1.76
WestTrib	15098.6*	2-yr	2.58	81.96	1.46	6778.56	6779.76	6779.76	6780.03	0.031136	4.23	24.15	63	1.18	1.23	0.74
WestTrib	15098.6*	5-yr	33.64	157.75	18.61	6778.56	6780.19	6780.19	6780.51	0.024404	5.11	68.65	141.59	1.13	1.06	0.74
WestTrib	15098.6*	10-yr	111.4	227.89	50.67	6778.56	6780.56	6780.56	6780.86	0.020411	5.61	136.24	215.24	0.98	0.98	0.81
WestTrib	15098.6*	25-yr	286.1	354.87	149.05	6778.56	6780.98	6780.98	6781.36	0.021905	6.84	239.25	270.03	0.92	1.14	1.21
WestTrib	15098.6*	50-yr	369.8	403.46	196.72	6778.56	6781.12	6781.12	6781.52	0.022581	7.27	277.04	281.98	0.9	1.16	1.38
WestTrib	15098.6*	100-yr	427	443.57	229.4	6778.56	6781.18	6781.18	6781.63	0.024884	7.77	293.69	286.51	0.94	1.26	1.59
WestTrib	15054.4*	2-yr	3.56	71.32	11.11	6777.38	6778.59	6778.59	6778.79	0.023801	3.89	34.13	116.96	1.16	0.12	0.43
WestTrib	15054.4*	5-yr	36.06	122.95	51	6777.38	6778.93	6778.93	6779.14	0.021549	4.69	93.27	236.29	1.03	0.15	0.53
WestTrib	15054.4*	10-yr	103.3	174.39	112.33	6777.38	6779.17	6779.17	6779.4	0.02245	5.46	160.11	299.29	0.93	0.19	0.75
WestTrib	15054.4*	25-yr	267.2	275.48	247.31	6777.38	6779.45	6779.45	6779.79	0.029972	7.15	251.04	349.82	0.97	0.3	1.34
WestTrib	15054.4*	50-yr	348.5	309.49	312.05	6777.38	6779.58	6779.58	6779.92	0.029549	7.46	296.98	374.99	0.94	0.32	1.46
WestTrib	15054.4*	100-yr	410.5	335.77	353.74	6777.38	6779.65	6779.65	6780.01	0.03068	7.79	322.8	389.71	0.94	0.34	1.59
WestTrib	15010.3*	2-yr	26.65	16.35	42.99	6776.19	6778.3		6778.3	0.000124	0.47	412.85	496.16	0.05	0	0.01
WestTrib	15010.3*	5-yr	74.95	34.06	100.99	6776.19	6778.55		6778.56	0.000339	0.86	542.76	522.9	0.08	0	0.02
WestTrib	15010.3*	10-yr	153.4	55.66	180.99	6776.19	6778.8		6778.81	0.00061	1.24	674.35	535.8	0.11	0.01	0.05
WestTrib	15010.3*	25-yr	340.5	97.79	351.69	6776.19	6779.19		6779.2	0.001101	1.86	885.07	556.98	0.14	0.02	0.11
WestTrib	15010.3*	50-yr	430.6	115.66	423.76	6776.19	6779.33		6779.35	0.001283	2.08	967.76	569.95	0.15	0.03	0.14
WestTrib	15010.3*	100-yr	496.5	128.75	474.71	6776.19	6779.42		6779.45	0.00143	2.25	1018.8	580.06	0.16	0.03	0.16
WestTrib	14966.13	2-yr	21.49	8.26	56.25	6775	6778.3	6776.37	6778.3	0.000008	0.17	980.81	731.04	0.01		0
WestTrib	14966.13	5-yr	54.78	19.53	135.69	6775	6778.55	6777.39	6778.55	0.000032	0.36	1099.28	749.08	0.02		0
WestTrib	14966.13	10-yr	104.3	35	250.68	6775	6778.8	6778.01	6778.8	0.00008	0.6	1216.68	754.57	0.04		0.01
WestTrib	14966.13	25-yr	216.3	67.34	506.33	6775	6779.17	6778.01	6779.18	0.000209	1.04	1399.29	758.16	0.06		0.04
WestTrib	14966.13	50-yr	267.3	81.25	621.45	6775	6779.32	6778.01	6779.32	0.000269	1.21	1468.21	758.71	0.07		0.05
WestTrib	14966.13	100-yr	304.2	91.23	704.58	6775	6779.4	6778.01	6779.41	0.000315	1.33	1510.24	759.04	0.08		0.06
WestTrib	14944.59		Mult Open													
WestTrib	14918.08	2-yr		86		6774.58	6776.16	6776.13	6776.81	0.030371	6.46	13.31	117.83	0.96	1.28	2.64
WestTrib	14918.08	5-yr	6.61	203.39		6774.58	6777.45	6777.45	6778.4	0.019164	7.94	30.07	581.33	1.11	1.21	1.83
WestTrib	14918.08	10-yr	73.7	143.31	172.99	6774.58	6778.01	6778.01	6778.02	0.000495	1.31	575.22	608.17	0.13	0.12	0.05
WestTrib	14918.08	25-yr	149.3	290.29	350.43	6774.58	6778.01	6778.01	6778.06	0.002032	2.66	575.22	608.17	0.25	0.27	0.2

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	14918.08	50-yr	183.3	356.44	430.27	6774.58	6778.01	6778.01	6778.09	0.003063	3.26	575.22	608.17	0.31	0.33	0.31
WestTrib	14918.08	100-yr	207.9	404.21	487.93	6774.58	6778.01	6778.01	6778.11	0.003939	3.7	575.22	608.17	0.35	0.37	0.39
WestTrib	14850.0*	2-yr	2	79.54	4.46	6773.96	6775.43		6775.52	0.008694	2.54	40.73	74.37	0.58	0.58	0.3
WestTrib	14850.0*	5-yr	19.56	164.8	25.64	6773.96	6775.94		6776.08	0.008006	3.32	97.94	156.57	0.66	0.55	0.31
WestTrib	14850.0*	10-yr	61.87	241.81	86.32	6773.96	6776.42		6776.55	0.006501	3.63	226.19	379.97	0.67	0.51	0.24
WestTrib	14850.0*	25-yr	205.8	358.62	225.58	6773.96	6776.83		6776.99	0.007337	4.41	423.52	531.57	0.62	0.5	0.36
WestTrib	14850.0*	50-yr	289.5	393.02	287.45	6773.96	6776.98		6777.13	0.007175	4.55	502.1	544.25	0.57	0.48	0.41
WestTrib	14850.0*	100-yr	352.9	415.99	331.16	6773.96	6777.08		6777.22	0.007059	4.63	554.94	548.78	0.54	0.47	0.45
WestTrib	14781.9*	2-yr	2.99	79.74	3.27	6773.34	6774.84		6774.94	0.008453	2.63	39.52	68.79	0.59	0.59	0.3
WestTrib	14781.9*	5-yr	24.94	166.19	18.87	6773.34	6775.38		6775.53	0.008085	3.48	91.93	135.63	0.67	0.56	0.34
WestTrib	14781.9*	10-yr	78.08	268.28	43.64	6773.34	6775.84	6775.42	6776.04	0.008635	4.3	195.02	384.92	0.89	0.57	0.27
WestTrib	14781.9*	25-yr	261.2	357.17	171.64	6773.34	6776.33		6776.49	0.007215	4.57	413.5	485.33	0.61	0.48	0.38
WestTrib	14781.9*	50-yr	347.3	388.68	234.07	6773.34	6776.5		6776.65	0.006826	4.65	498.56	507.64	0.56	0.47	0.42
WestTrib	14781.9*	100-yr	412.6	413.52	273.86	6773.34	6776.6		6776.75	0.00684	4.76	548.3	516.79	0.54	0.46	0.45
WestTrib	14713.9*	2-yr	4.21	79.23	2.56	6772.72	6774.24		6774.35	0.008747	2.77	38.2	66.03	0.62	0.5	0.32
WestTrib	14713.9*	5-yr	30.64	163.65	15.7	6772.72	6774.8		6774.97	0.008362	3.66	90.11	128.67	0.69	0.51	0.37
WestTrib	14713.9*	10-yr	98.42	250.59	40.99	6772.72	6775.28		6775.47	0.00816	4.3	182.3	285.86	0.78	0.5	0.32
WestTrib	14713.9*	25-yr	310.5	347.54	132	6772.72	6775.84		6776.01	0.006912	4.67	403.92	448.86	0.61	0.44	0.39
WestTrib	14713.9*	50-yr	399.3	386.15	184.51	6772.72	6776.02		6776.18	0.006871	4.86	487.68	501.92	0.58	0.44	0.42
WestTrib	14713.9*	100-yr	463.6	407.14	229.29	6772.72	6776.12		6776.29	0.006746	4.94	541.04	509.67	0.55	0.44	0.45
WestTrib	14645.8*	2-yr	8.24	74.87	2.89	6772.1	6773.76		6773.85	0.00612	2.56	45.36	74.59	0.54	0.75	0.23
WestTrib	14645.8*	5-yr	45.52	149.37	15.11	6772.1	6774.33		6774.46	0.006408	3.43	104.52	136.75	0.59	0.75	0.31
WestTrib	14645.8*	10-yr	130.2	223.89	35.96	6772.1	6774.82		6774.97	0.006304	4.01	201.76	255.21	0.62	0.73	0.31
WestTrib	14645.8*	25-yr	351.3	324.06	114.62	6772.1	6775.42		6775.57	0.005961	4.57	417.45	460.8	0.58	0.69	0.34
WestTrib	14645.8*	50-yr	430.5	359.64	179.88	6772.1	6775.59		6775.74	0.006018	4.78	499.93	487.29	0.55	0.68	0.39
WestTrib	14645.8*	100-yr	492.7	381.12	226.21	6772.1	6775.7		6775.85	0.005999	4.89	553.74	500.95	0.53	0.67	0.41
WestTrib	14577.83	2-yr	4.58	80.48	0.94	6771.48	6772.84	6772.77	6773.1	0.023644	4.2	24.83	50.05	1.02	5.69	0.73
WestTrib	14577.83	5-yr	38.69	162.7	8.6	6771.48	6773.35	6773.32	6773.71	0.021288	5.39	60.18	89.28	1.03	5.84	0.89
WestTrib	14577.83	10-yr	109.9	253.85	26.31	6771.48	6773.82	6773.74	6774.24	0.01971	6.29	111.75	135.94	1.01	5.91	1.01
WestTrib	14577.83	25-yr	326.1	391.7	72.24	6771.48	6774.43	6774.43	6774.88	0.018297	7.32	226.94	263.98	1.03	5.8	0.98
WestTrib	14577.83	50-yr	426.7	433.07	110.24	6771.48	6774.62	6774.62	6775.07	0.017309	7.5	286.05	322.6	1	5.74	0.96
WestTrib	14577.83	100-yr	494.7	461.32	143.97	6771.48	6774.74	6774.71	6775.18	0.016995	7.65	325.7	349.27	0.97	5.68	0.99
WestTrib	14177.83	2-yr	17.37	68.36	0.27	6766.41	6767.35		6767.42	0.009319	2.19	48.4	89.1	0.48	3.18	0.32
WestTrib	14177.83	5-yr	49.78	156.28	3.95	6766.41	6767.75		6767.87	0.010424	3.15	86.74	106.48	0.55	3.2	0.53
WestTrib	14177.83	10-yr	100.4	275.13	14.52	6766.41	6768.14		6768.33	0.011267	4.04	132.43	127.13	0.61	3.24	0.73
WestTrib	14177.83	25-yr	218.5	508.01	63.48	6766.41	6768.77	6768.29	6769.07	0.011596	5.21	232.63	189.47	0.7	3.3	0.89

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	14177.83	50-yr	256.9	610.17	102.9	6766.41	6768.99	6768.51	6769.33	0.011987	5.67	276.32	212.84	0.73	3.34	0.97
WestTrib	14177.83	100-yr	298.4	677.01	124.58	6766.41	6769.14	6768.72	6769.5	0.011955	5.9	310.26	238.56	0.75	3.38	0.97
WestTrib	13823.36	2-yr	14.62	62.21	9.16	6763.06	6764.2	6763.96	6764.25	0.0086	2	58.67	128.45	0.46	3.15	0.25
WestTrib	13823.36	5-yr	48.79	134.77	26.44	6763.06	6764.6		6764.67	0.007829	2.65	117.21	166.19	0.47	2.9	0.34
WestTrib	13823.36	10-yr	107.3	226.75	56	6763.06	6764.99		6765.09	0.007454	3.22	188.76	198.37	0.47	2.76	0.44
WestTrib	13823.36	25-yr	240	416.11	133.87	6763.06	6765.61		6765.76	0.007461	4.11	334.45	283.86	0.52	2.62	0.55
WestTrib	13823.36	50-yr	312.2	488.03	169.78	6763.06	6765.81		6765.99	0.007409	4.37	396.39	311.89	0.52	2.55	0.59
WestTrib	13823.36	100-yr	364.1	540.47	195.42	6763.06	6765.94		6766.13	0.007543	4.58	437.99	333.94	0.53	2.51	0.62
WestTrib	13632.58	2-yr		86		6759.99	6760.77	6760.77	6761.1	0.0426	4.55	18.88	29.39	1	1.66	1.7
WestTrib	13632.58	5-yr		210		6759.99	6761.37	6761.37	6761.77	0.039761	5.08	41.37	51.93	1	1.69	1.97
WestTrib	13632.58	10-yr		390		6759.99	6761.84	6761.84	6762.33	0.037697	5.64	69.14	71.25	1.01	1.97	2.27
WestTrib	13632.58	25-yr	3.77	784.6	1.63	6759.99	6762.45	6762.45	6763.14	0.031161	6.69	121.7	103.6	1.08	2.25	2.28
WestTrib	13632.58	50-yr	8.13	954.17	7.7	6759.99	6762.67	6762.67	6763.43	0.028787	7.07	146.02	118.46	1.11	2.25	2.21
WestTrib	13632.58	100-yr	12.14	1071.94	15.93	6759.99	6762.83	6762.83	6763.62	0.026514	7.22	166.78	133.22	1.12	2.21	2.07
WestTrib	13268.37	2-yr	138.2	11.93	9.86	6755.96	6757.03	6756.31	6757.04	0.002298	1.14	187.67	228.33	0.17	2.24	0.12
WestTrib	13268.37	5-yr	329	36.65	54.39	6755.96	6757.7	6756.62	6757.72	0.002431	1.82	363.3	303.51	0.2	2.38	0.18
WestTrib	13268.37	10-yr	474	55.97	109.99	6755.96	6758.06		6758.1	0.002609	2.2	481.07	341.82	0.22	2.46	0.23
WestTrib	13268.37	25-yr	756	94.21	249.79	6755.96	6758.65		6758.7	0.002829	2.77	711.73	441.85	0.24	2.61	0.28
WestTrib	13268.37	50-yr	908.9	115.46	375.69	6755.96	6758.93		6758.98	0.002913	3.03	836.97	454.28	0.24	2.67	0.33
WestTrib	13268.37	100-yr	1054	136.43	509.2	6755.96	6759.18		6759.24	0.002992	3.27	953.36	467.82	0.24	2.73	0.38
WestTrib	12937.08	2-yr		22.35	137.65	6753.53	6754.63	6754.63	6754.82	0.082688	5.55	48.39	107.53	0.93	2	2.32
WestTrib	12937.08	5-yr	2.52	53.06	364.42	6753.53	6755	6755	6755.34	0.084031	7.43	96.79	155.19	1.04	1.74	3.26
WestTrib	12937.08	10-yr	14.14	76.88	548.98	6753.53	6755.28	6755.28	6755.65	0.068769	8.11	144.93	198.27	1	1.34	3.13
WestTrib	12937.08	25-yr	59.43	121.02	919.55	6753.53	6755.65	6755.65	6756.09	0.065083	9.57	231.8	258.98	0.99	1.07	3.63
WestTrib	12937.08	50-yr	95.12	143.2	1161.7	6753.53	6755.81	6755.81	6756.31	0.064309	10.19	275.02	270.32	0.99	0.98	4.08
WestTrib	12937.08	100-yr	135.9	164.48	1399.7	6753.53	6755.95	6755.95	6756.51	0.064464	10.78	313.67	277.45	0.99	0.92	4.54
WestTrib	12902.31	2-yr		160		6748.61	6750.12	6750.12	6750.47	0.041882	4.74	33.76	48.97	1.01	3.3	1.8
WestTrib	12902.31	5-yr		420		6748.61	6750.8	6750.76	6751.33	0.032581	5.88	71.48	62.17	0.97	3.67	2.33
WestTrib	12902.31	10-yr		640		6748.61	6751.32	6751.15	6751.88	0.024106	6	106.71	71.77	0.87	3.66	2.23
WestTrib	12902.31	25-yr		1100		6748.61	6752.19		6752.79	0.017455	6.22	176.88	88.38	0.77	3.73	2.17
WestTrib	12902.31	50-yr		1399.62	0.39	6748.61	6752.67		6753.29	0.015343	6.33	221.64	102.03	0.76	3.81	2.07
WestTrib	12902.31	100-yr		1692.62	7.38	6748.61	6753.08	6752.49	6753.72	0.014107	6.45	271.72	154.09	0.85	3.91	1.55
WestTrib	12577.83	2-yr	0	160		6743.46	6746.54		6746.63	0.004334	2.41	66.27	48.35	0.36	3.97	0.37
WestTrib	12577.83	5-yr	3.06	413.96	2.98	6743.46	6747.44		6747.66	0.005473	3.72	119.61	76.87	0.52	4.39	0.53
WestTrib	12577.83	10-yr	9.54	612.67	17.79	6743.46	6747.92		6748.22	0.006303	4.54	162.82	106.05	0.63	4.65	0.6
WestTrib	12577.83	25-yr	26.22	991.87	81.9	6743.46	6748.57		6749.06	0.008029	5.93	252.04	177.35	0.83	5.02	0.71

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	12577.83	50-yr	42.73	1223.12	134.16	6743.46	6748.85	6748.21	6749.47	0.009285	6.73	310.48	246.72	0.99	5.2	0.73
WestTrib	12577.83	100-yr	60.66	1428.49	210.86	6743.46	6749.08	6748.69	6749.8	0.010389	7.41	375.16	313.82	1.1	5.34	0.77
WestTrib	12177.83	2-yr		108.7	51.3	6741.28	6742.45	6742.41	6742.66	0.04155	4.18	48.38	92.75	0.9	5.91	1.35
WestTrib	12177.83	5-yr	7.98	272.02	140	6741.28	6742.95	6742.91	6743.27	0.031869	5.39	118.83	199.39	1.03	5.64	1.18
WestTrib	12177.83	10-yr	26.32	378.61	235.07	6741.28	6743.22	6743.18	6743.58	0.028175	5.93	180.71	255.19	1	5.46	1.24
WestTrib	12177.83	25-yr	81.37	555.31	463.32	6741.28	6743.69	6743.57	6744.05	0.021834	6.4	325.7	381.92	0.92	5.19	1.16
WestTrib	12177.83	50-yr	117.7	635.39	646.89	6741.28	6743.93	6743.83	6744.27	0.018744	6.45	419.57	404.04	0.81	5.05	1.21
WestTrib	12177.83	100-yr	153.5	709.19	837.29	6741.28	6744.13	6743.96	6744.46	0.016901	6.54	503.78	423.87	0.75	4.94	1.25
WestTrib	11777.83	2-yr		160		6734.64	6736.64		6736.74	0.007446	2.52	63.47	64.96	0.45	5.88	0.45
WestTrib	11777.83	5-yr		420		6734.64	6737.46		6737.63	0.007815	3.35	125.39	86.89	0.49	5.84	0.7
WestTrib	11777.83	10-yr	0.54	638.52	0.94	6734.64	6737.9		6738.13	0.007932	3.84	169.56	115.63	0.56	5.81	0.72
WestTrib	11777.83	25-yr	14.75	1069.24	16.02	6734.64	6738.53		6738.86	0.008565	4.67	259.1	169.87	0.66	5.7	0.81
WestTrib	11777.83	50-yr	33.18	1333.66	33.16	6734.64	6738.83		6739.22	0.00905	5.14	312.7	198.02	0.7	5.67	0.89
WestTrib	11777.83	100-yr	56.37	1589.47	54.16	6734.64	6739.07		6739.52	0.009364	5.57	364.97	228.4	0.75	5.64	0.93
WestTrib	11377.83	2-yr		160		6728.87	6730.45	6730.45	6730.85	0.040864	5.12	31.28	39.67	1.02	0.48	2
WestTrib	11377.83	5-yr		420		6728.87	6731.19	6731.19	6731.79	0.035532	6.18	67.95	58.45	1.01	1.82	2.57
WestTrib	11377.83	10-yr		640		6728.87	6731.62	6731.62	6732.32	0.033783	6.74	95.01	69.15	1.01	2.73	2.89
WestTrib	11377.83	25-yr		1094.43	5.58	6728.87	6732.33	6732.33	6733.15	0.027628	7.27	156.58	121.54	1.13	3.42	2.22
WestTrib	11377.83	50-yr		1364.1	35.9	6728.87	6732.69	6732.69	6733.55	0.024713	7.55	203.22	143.13	1.1	3.72	2.19
WestTrib	11377.83	100-yr		1616.27	83.73	6728.87	6732.98	6732.98	6733.88	0.023127	7.8	247.55	155.47	1.06	3.85	2.29
WestTrib	11046.61	2-yr		71.42	88.58	6725.04	6727.46		6727.47	0.00032	0.62	321.27	231.04	0.08	0	0.03
WestTrib	11046.61	5-yr		188.4	231.6	6725.04	6727.54		6727.57	0.001881	1.54	340.11	236.85	0.19	0.03	0.17
WestTrib	11046.61	10-yr		289.61	350.39	6725.04	6727.69		6727.74	0.003297	2.12	376.31	247.63	0.26	0.06	0.31
WestTrib	11046.61	25-yr		510.24	589.76	6725.04	6728.1		6728.19	0.00487	2.86	482.34	280.98	0.32	0.13	0.52
WestTrib	11046.61	50-yr		687.84	712.16	6725.04	6728.33		6728.45	0.005812	3.35	557.21	359.07	0.39	0.17	0.56
WestTrib	11046.61	100-yr	0.26	875.12	824.63	6725.04	6728.56		6728.7	0.006362	3.79	640.53	378.5	0.41	0.22	0.67
WestTrib	10857.54	2-yr	3.15	112.39	44.47	6719.9	6727.46		6727.46	0.000006	0.24	981.86	277.75	0.02	0.01	0
WestTrib	10857.54	5-yr	8.62	294.08	117.3	6719.9	6727.53		6727.54	0.000042	0.62	1002.08	281.72	0.05	0.04	0.01
WestTrib	10857.54	10-yr	14.19	444.74	181.07	6719.9	6727.67		6727.68	0.00009	0.92	1040.93	287.98	0.07	0.08	0.02
WestTrib	10857.54	25-yr	27.53	747.05	325.42	6719.9	6728.03		6728.06	0.000207	1.45	1148.81	306.62	0.11	0.18	0.05
WestTrib	10857.54	50-yr	37.18	939.09	423.73	6719.9	6728.24		6728.28	0.000293	1.76	1214.07	321.08	0.14	0.25	0.07
WestTrib	10857.54	100-yr	48.61	1126.79	524.61	6719.9	6728.44		6728.48	0.000382	2.05	1278.49	335.28	0.16	0.31	0.09
WestTrib	10621.52	2-yr	148.9	11.12	0	6726.43	6727.45	6727.45	6727.45	0.002653	0.88	240.73	433.98	0.16	0.4	0.09
WestTrib	10621.52	5-yr	390.8	29.2	0	6726.43	6727.45	6727.45	6727.5	0.018283	2.3	240.73	433.98	0.42	1.72	0.63
WestTrib	10621.52	10-yr	593.6	46.38	0.02	6726.43	6727.5	6727.45	6727.59	0.031372	3.25	263.87	435.75	0.56	2.39	1.19
WestTrib	10621.52	25-yr	1010	89.23	0.29	6726.43	6727.73	6727.48	6727.88	0.031734	4.24	365.83	443.46	0.59	2.36	1.63

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	10621.52	50-yr	1282	117.43	0.6	6726.43	6727.85	6727.6	6728.03	0.033498	4.81	417.16	447.38	0.62	2.35	1.95
WestTrib	10621.52	100-yr	1553	146.11	0.99	6726.43	6727.96	6727.68	6728.17	0.034519	5.3	465.88	451.8	0.65	2.34	2.22
WestTrib	10574.28	2-yr	100.5	25.38	34.08	6719.51	6724.69	6724.69	6724.79	0.141269	3.62	66.7	362.34	1.04	0.34	1.62
WestTrib	10574.28	5-yr	257.6	64.78	87.59	6719.51	6724.86	6724.86	6725.03	0.106306	4.84	128.59	368.24	1	1.06	2.31
WestTrib	10574.28	10-yr	395.7	99.3	134.96	6719.51	6724.98	6724.98	6725.2	0.094995	5.55	172.89	372.41	0.99	1.61	2.75
WestTrib	10574.28	25-yr	690.4	172.73	236.86	6719.51	6725.18	6725.18	6725.52	0.087746	6.76	249.26	379.48	1.01	2.54	3.59
WestTrib	10574.28	50-yr	878.2	219.31	302.48	6719.51	6725.31	6725.31	6725.69	0.079515	7.22	298.27	390.43	1	2.86	3.79
WestTrib	10574.28	100-yr	1066	265.52	368.13	6719.51	6725.42	6725.42	6725.85	0.075059	7.66	343.7	409.84	1.01	6.79	3.92
WestTrib	10177.83	2-yr	0.31	158.93	0.77	6714.74	6716.28		6716.38	0.0053	2.52	65.22	60.2	0.43	2.03	0.36
WestTrib	10177.83	5-yr	11.5	385.92	12.58	6714.74	6717.12		6717.32	0.005716	3.68	133.5	112.49	0.58	2.06	0.42
WestTrib	10177.83	10-yr	41.74	555.3	32.96	6714.74	6717.58		6717.84	0.006117	4.34	204.01	197.2	0.71	2.03	0.39
WestTrib	10177.83	25-yr	183.9	828.52	87.55	6714.74	6718.19	6717.63	6718.51	0.006677	5.23	358.5	297.15	0.74	1.85	0.5
WestTrib	10177.83	50-yr	296.8	967.83	135.37	6714.74	6718.52		6718.86	0.006547	5.53	475.15	373.9	0.73	1.83	0.52
WestTrib	10177.83	100-yr	417.1	1107.88	175	6714.74	6718.68		6719.07	0.00737	6.05	536.6	380.24	0.74	1.73	0.65
WestTrib	10004.08	2-yr		160		6712.43	6713.96	6713.96	6714.36	0.041156	5.1	31.34	40.11	1.02	0.83	2
WestTrib	10004.08	5-yr	0.03	409.97		6712.43	6714.67	6714.66	6715.26	0.035235	6.17	66.57	59.54	1.03	0.99	2.45
WestTrib	10004.08	10-yr	8.14	621.34	0.52	6712.43	6715.11	6715.11	6715.8	0.028552	6.74	99.07	86.71	1.1	0.96	2.03
WestTrib	10004.08	25-yr	74.42	1009.55	16.03	6712.43	6715.92	6715.92	6716.66	0.018544	7.19	194.92	174.83	1.15	0.71	1.29
WestTrib	10004.08	50-yr	149.8	1215.74	34.45	6712.43	6716.22	6716.22	6717.02	0.018292	7.71	253.65	236.34	1.23	0.62	1.22
WestTrib	10004.08	100-yr	290	1352.65	57.31	6712.43	6716.65	6716.65	6717.33	0.013658	7.37	371.53	313.91	1.07	0.59	1.01
WestTrib	9970.28*	2-yr		160		6711.36	6713.26	6712.93	6713.45	0.014431	3.48	45.98	47.57	0.62	0.18	0.87
WestTrib	9970.28*	5-yr		409.23	0.77	6711.36	6713.81	6713.64	6714.27	0.022907	5.49	75.24	57.42	0.84	0.44	1.86
WestTrib	9970.28*	10-yr	0.01	627.44	2.56	6711.36	6714.13	6714.08	6714.84	0.027896	6.78	94.3	63.73	0.98	0.65	2.56
WestTrib	9970.28*	25-yr	21.16	1061.08	17.76	6711.36	6714.86	6714.86	6715.79	0.022677	7.86	159.31	114.65	1.16	0.71	1.96
WestTrib	9970.28*	50-yr	69.95	1284.44	45.61	6711.36	6715.35	6715.35	6716.24	0.017664	7.87	227.76	163.66	1.13	0.6	1.53
WestTrib	9970.28*	100-yr	118.5	1516.24	65.25	6711.36	6715.55	6715.55	6716.6	0.019638	8.69	261.47	189.6	1.19	0.72	1.81
WestTrib	9936.49*	2-yr		158.51	1.49	6710.3	6713.23		6713.27	0.001361	1.63	100.78	60.15	0.22	0.03	0.14
WestTrib	9936.49*	5-yr	0.01	403.23	6.76	6710.3	6713.66		6713.83	0.004548	3.33	129.16	72.44	0.44	0.12	0.5
WestTrib	9936.49*	10-yr	0.72	616.44	12.84	6710.3	6713.86		6714.19	0.007943	4.66	144.93	88.22	0.63	0.23	0.81
WestTrib	9936.49*	25-yr	11.44	1052.45	36.11	6710.3	6714.25	6713.81	6714.95	0.013784	6.81	185.85	118.08	0.94	0.44	1.35
WestTrib	9936.49*	50-yr	26.51	1316.61	56.88	6710.3	6714.46	6714.29	6715.38	0.017008	7.93	211.51	138.92	1.1	0.56	1.61
WestTrib	9936.49*	100-yr	45.34	1583.31	71.35	6710.3	6714.61	6714.6	6715.81	0.020776	9.07	234.55	160.65	1.28	0.71	1.88
WestTrib	9902.69*	2-yr	0.02	154.46	5.52	6709.23	6713.22		6713.23	0.00033	1.04	168.05	85.09	0.13	0.01	0.04
WestTrib	9902.69*	5-yr	2.06	387.17	20.77	6709.23	6713.63		6713.71	0.00129	2.26	209.14	114.02	0.29	0.04	0.15
WestTrib	9902.69*	10-yr	6.09	592.76	31.15	6709.23	6713.81		6713.96	0.002532	3.28	231.03	147.55	0.45	0.09	0.25
WestTrib	9902.69*	25-yr	31.2	1002.32	66.48	6709.23	6714.15		6714.51	0.005188	5.03	297.48	211.1	0.71	0.2	0.45

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	9902.69*	50-yr	58.49	1233.42	108.09	6709.23	6714.34		6714.82	0.00662	5.87	339.04	221.22	0.79	0.26	0.63
WestTrib	9902.69*	100-yr	89.41	1458.02	152.57	6709.23	6714.49		6715.09	0.008138	6.68	372.84	228.47	0.86	0.32	0.82
WestTrib	9868.90*	2-yr	0.88	149.55	9.57	6708.17	6713.22		6713.22	0.000118	0.76	267.23	191.32	0.11	0	0.01
WestTrib	9868.90*	5-yr	10.81	359.89	39.3	6708.17	6713.63		6713.67	0.000479	1.65	351.44	215.09	0.21	0.02	0.05
WestTrib	9868.90*	10-yr	23.15	537.96	68.88	6708.17	6713.8		6713.87	0.000937	2.36	388.39	223.32	0.29	0.04	0.1
WestTrib	9868.90*	25-yr	64.26	887.51	148.23	6708.17	6714.15		6714.31	0.001964	3.61	469.01	241.26	0.41	0.08	0.24
WestTrib	9868.90*	50-yr	94.7	1099.49	205.81	6708.17	6714.33		6714.56	0.002641	4.3	515.75	259.99	0.48	0.11	0.32
WestTrib	9868.90*	100-yr	128.4	1307.12	264.48	6708.17	6714.48		6714.78	0.003381	4.96	554.68	275.68	0.55	0.14	0.42
WestTrib	9835.112	2-yr	4.95	133.16	21.89	6707.1	6713.22	6709.28	6713.22	0.000046	0.55	426.57	222.43	0.06		0.01
WestTrib	9835.112	5-yr	22.14	321.31	66.55	6707.1	6713.63	6710.56	6713.65	0.000203	1.23	522.53	246.16	0.13		0.03
WestTrib	9835.112	10-yr	40.15	484.57	105.28	6707.1	6713.8	6711.47	6713.83	0.000413	1.79	564.86	262.62	0.19		0.05
WestTrib	9835.112	25-yr	92.72	810.62	196.66	6707.1	6714.14	6713.01	6714.23	0.000936	2.81	660.72	300.08	0.29		0.13
WestTrib	9835.112	50-yr	134.8	1011.26	253.93	6707.1	6714.32	6713.01	6714.45	0.001309	3.39	717.39	319.93	0.34		0.18
WestTrib	9835.112	100-yr	180.9	1221.09	298.03	6707.1	6714.46	6713.01	6714.64	0.001766	4	763.65	351.92	0.41		0.24
WestTrib	9806.61		Culvert													
WestTrib	9776.876	2-yr		159.08	0.92	6706.1	6708.83	6708.83	6709.72	0.031273	7.58	21.33	28.92	1	1.28	3.31
WestTrib	9776.876	5-yr		404.26	5.74	6706.1	6710.39	6710.39	6712.05	0.025871	10.4	39.97	49.08	1	1.41	5.13
WestTrib	9776.876	10-yr	48.29	467.5	114.21	6706.1	6710.59	6710.59	6711.63	0.020773	9.32	99.96	52.25	1.04	0.88	2.43
WestTrib	9776.876	25-yr	133.4	652.03	314.59	6706.1	6711.98	6711.98	6712.8	0.012644	9.17	241.17	134.81	0.96	0.87	1.4
WestTrib	9776.876	50-yr	179.9	759.4	460.7	6706.1	6712.32	6712.32	6713.22	0.013633	9.97	288.17	143.39	0.95	0.53	1.7
WestTrib	9776.876	100-yr	232.7	852.95	614.31	6706.1	6712.64	6712.64	6713.59	0.014047	10.54	335	150.85	0.93	0.58	1.93
WestTrib	9737.71*	2-yr		158.53	1.47	6705.24	6707.87	6707.7	6708.35	0.023865	5.61	29.76	27.75	0.95	1.16	1.55
WestTrib	9737.71*	5-yr	2.63	374.24	33.13	6705.24	6708.85	6708.78	6709.63	0.023197	7.4	65.55	44.73	1.03	0.99	2.08
WestTrib	9737.71*	10-yr	14.14	546.33	69.53	6705.24	6709.4	6709.4	6710.42	0.023089	8.6	92.77	53.49	1.08	0.98	2.45
WestTrib	9737.71*	25-yr	55.09	882.93	161.98	6705.24	6710.25	6710.25	6711.69	0.024489	10.6	145.64	83.54	1.29	0.97	2.63
WestTrib	9737.71*	50-yr	117.7	972.35	309.99	6705.24	6711.25	6711.25	6712.17	0.012989	9.11	279.57	159.87	1.03	0.73	1.41
WestTrib	9737.71*	100-yr	189	1009.68	501.36	6705.24	6712.09	6711.6	6712.71	0.00796	7.99	430.03	224.08	0.8	0.77	0.95
WestTrib	9698.55*	2-yr		160		6704.37	6706.5	6706.5	6707.2	0.034934	6.72	23.8	17.13	1	0.83	2.9
WestTrib	9698.55*	5-yr		398.68	11.32	6704.37	6707.82	6707.82	6708.64	0.026566	7.38	60.15	40.59	1.05	0.98	2.4
WestTrib	9698.55*	10-yr	0.49	587.36	42.15	6704.37	6708.44	6708.43	6709.38	0.025266	8.05	89.28	53.77	1.07	0.96	2.57
WestTrib	9698.55*	25-yr	22.83	952.75	124.43	6704.37	6709.44	6709.44	6710.57	0.019804	9.08	155.62	77.83	1.06	0.84	2.43
WestTrib	9698.55*	50-yr	39.61	1182.72	177.67	6704.37	6709.73	6709.73	6711.17	0.023144	10.37	181.83	110.57	1.32	0.92	2.35
WestTrib	9698.55*	100-yr	43.74	1450.43	205.83	6704.37	6709.62	6709.62	6711.94	0.03861	13.12	170.53	95.18	1.61	1.24	4.26
WestTrib	9659.39*	2-yr		160		6703.51	6706.04		6706.33	0.01061	4.28	37.38	21.69	0.57	0.23	1.1
WestTrib	9659.39*	5-yr		408.06	1.94	6703.51	6706.98	6706.74	6707.65	0.021186	6.61	63.81	41.32	0.93	0.56	1.99

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	9659.39*	10-yr		613.24	16.76	6703.51	6707.5	6707.42	6708.42	0.022989	7.81	87.48	49.51	1.02	0.68	2.47
WestTrib	9659.39*	25-yr	1.4	1010.77	87.83	6703.51	6708.48	6708.41	6709.58	0.022104	8.75	147.49	76.9	1.07	0.76	2.6
WestTrib	9659.39*	50-yr	12.2	1244.04	143.77	6703.51	6708.97	6708.97	6710.15	0.019784	9.2	189.85	104.58	1.14	0.74	2.21
WestTrib	9659.39*	100-yr	43.29	1409.92	246.8	6703.51	6709.71	6709.71	6710.66	0.013061	8.54	309.38	197.98	1.1	0.62	1.26
WestTrib	9620.23*	2-yr		160		6702.64	6706		6706.09	0.002375	2.45	65.37	28.51	0.28	0.07	0.33
WestTrib	9620.23*	5-yr		405.3	4.7	6702.64	6706.79		6707.09	0.007054	4.37	98.44	53.82	0.57	0.2	0.78
WestTrib	9620.23*	10-yr		609.19	20.81	6702.64	6707.3		6707.74	0.008791	5.41	128.03	62.73	0.66	0.27	1.09
WestTrib	9620.23*	25-yr	0.17	1009.77	90.07	6702.64	6708.19		6708.82	0.011481	6.66	193.71	89.44	0.77	0.39	1.52
WestTrib	9620.23*	50-yr	3.17	1255	141.84	6702.64	6708.52	6708.11	6709.31	0.01259	7.47	232.87	139.71	0.97	0.43	1.29
WestTrib	9620.23*	100-yr	6.56	1569.16	124.28	6702.64	6708.64	6708.41	6709.81	0.017598	9.03	250.94	186.28	1.32	0.58	1.47
WestTrib	9581.077	2-yr		159.76	0.24	6701.78	6705.99		6706.02	0.000834	1.57	103.53	50.25	0.19	0.04	0.1
WestTrib	9581.077	5-yr		399.96	10.04	6701.78	6706.75		6706.89	0.002407	2.94	151.66	71.58	0.35	0.14	0.31
WestTrib	9581.077	10-yr		599.86	30.14	6701.78	6707.26		6707.47	0.00333	3.76	190.45	82.52	0.43	0.21	0.47
WestTrib	9581.077	25-yr	0.65	1018.56	80.79	6701.78	6708.07		6708.44	0.005617	5.06	285.94	216.9	0.75	0.33	0.46
WestTrib	9581.077	50-yr	12.7	1207.87	179.43	6701.78	6708.49		6708.88	0.005422	5.36	394.66	298.53	0.77	0.35	0.44
WestTrib	9581.077	100-yr	35.82	1346.13	318.05	6701.78	6708.86		6709.23	0.004985	5.46	514.12	358.07	0.72	0.34	0.44
WestTrib	9442.913	2-yr	1.26	158.3	0.44	6701.78	6705.97		6705.98	0.000118	0.75	224.89	87.52	0.08	0.01	0.02
WestTrib	9442.913	5-yr	7.23	396.32	6.46	6701.78	6706.71		6706.75	0.000396	1.55	313.79	180.59	0.2	0.02	0.04
WestTrib	9442.913	10-yr	31.5	578.98	19.52	6701.78	6707.2		6707.26	0.000591	2.04	418.11	234.55	0.26	0.03	0.07
WestTrib	9442.913	25-yr	122.7	911.32	66	6701.78	6708.01		6708.1	0.000876	2.75	646.84	346.4	0.32	0.05	0.1
WestTrib	9442.913	50-yr	226.1	1074.24	99.68	6701.78	6708.42		6708.53	0.000961	3.02	795.41	399.32	0.33	0.06	0.12
WestTrib	9442.913	100-yr	341.9	1222.03	136.1	6701.78	6708.77		6708.89	0.00103	3.25	965.64	555.09	0.37	0.06	0.11
WestTrib	9377.833	2-yr	17.62	141.68	0.71	6701.78	6705.97		6705.98	0.000053	0.53	401.32	207.8	0.06	0.08	0.01
WestTrib	9377.833	5-yr	69.06	335.36	5.57	6701.78	6706.71		6706.72	0.000166	1.07	578.68	278.17	0.12	0.22	0.02
WestTrib	9377.833	10-yr	121.3	494.1	14.65	6701.78	6707.2		6707.23	0.000258	1.42	731.78	366.22	0.16	0.32	0.03
WestTrib	9377.833	25-yr	290.9	764.71	44.41	6701.78	6708.01		6708.05	0.000381	1.9	1097.67	520.72	0.2	0.44	0.05
WestTrib	9377.833	50-yr	437.8	897.17	65.08	6701.78	6708.42		6708.47	0.00042	2.09	1320.77	570.9	0.2	0.49	0.06
WestTrib	9377.833	100-yr	586.3	1025.81	87.85	6701.78	6708.78		6708.83	0.000459	2.26	1536.02	635.37	0.2	0.51	0.07
WestTrib	9076.212	2-yr		160		6704.79	6705.63	6705.63	6705.89	0.045849	4.09	39.13	75.92	1	1.52	1.47
WestTrib	9076.212	5-yr		410		6704.79	6706.09	6706.09	6706.51	0.03971	5.18	79.18	96.73	1.01	1.11	2.03
WestTrib	9076.212	10-yr		630		6704.79	6706.37	6706.37	6706.91	0.036675	5.89	107.02	101.59	1.01	0.99	2.41
WestTrib	9076.212	25-yr		1100		6704.79	6706.87	6706.87	6707.61	0.032601	6.87	160.08	110.24	1	0.86	2.95
WestTrib	9076.212	50-yr	0.23	1399.77		6704.79	6707.14	6707.14	6707.98	0.0309	7.38	190.29	123.88	1.05	0.82	2.96
WestTrib	9076.212	100-yr	13.25	1686.75		6704.79	6707.45	6707.45	6708.31	0.026242	7.49	237.69	174.73	1.13	0.74	2.22
WestTrib	9038.543	2-yr		160		6696.96	6698.68	6698.63	6699.05	0.035306	4.89	32.75	39.75	0.95	4	1.8
WestTrib	9038.543	5-yr		410		6696.96	6699.58		6700.07	0.022576	5.58	73.53	52.2	0.83	3.78	1.97

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	9038.543	10-yr		630		6696.96	6700.19		6700.7	0.019402	5.75	109.54	66.33	0.79	3.61	1.98
WestTrib	9038.543	25-yr		1100		6696.96	6701.26		6701.74	0.014271	5.52	199.29	102.11	0.7	3.31	1.73
WestTrib	9038.543	50-yr		1400		6696.96	6701.72		6702.21	0.012736	5.65	247.98	112.79	0.67	3.12	1.74
WestTrib	9038.543	100-yr		1699.92	0.08	6696.96	6702.07		6702.6	0.012087	5.89	288.97	122.2	0.67	2.95	1.77
WestTrib	8864.996	2-yr		160		6692.49	6694.76	6694.43	6695.06	0.016052	4.41	36.32	28.27	0.69	4.36	1.27
WestTrib	8864.996	5-yr		410		6692.49	6695.64		6696.29	0.020817	6.44	63.62	33.83	0.83	4.72	2.39
WestTrib	8864.996	10-yr		630		6692.49	6696.22	6695.99	6697.09	0.02185	7.47	84.37	37.15	0.87	4.96	3.02
WestTrib	8864.996	25-yr		1100		6692.49	6697.13	6697.03	6698.43	0.025276	9.12	120.55	43.71	0.97	5.3	4.23
WestTrib	8864.996	50-yr	0.92	1397.19	1.89	6692.49	6697.68	6697.68	6699.09	0.025435	9.54	148.86	60.76	1.07	4.34	3.81
WestTrib	8864.996	100-yr	4.07	1683.77	12.16	6692.49	6698.11	6698.11	6699.66	0.023505	10.04	177.94	75.94	1.15	3.38	3.37
WestTrib	8577.833	2-yr		160		6688.89	6690.54		6690.7	0.014105	3.21	49.78	57.15	0.61	0.6	0.77
WestTrib	8577.833	5-yr		410		6688.89	6691.27		6691.57	0.012785	4.39	93.34	62.03	0.63	0.48	1.19
WestTrib	8577.833	10-yr		630		6688.89	6691.7		6692.13	0.013353	5.21	120.85	64	0.67	0.48	1.56
WestTrib	8577.833	25-yr		1100		6688.89	6692.51		6693.13	0.013143	6.33	173.74	67.62	0.7	0.37	2.08
WestTrib	8577.833	50-yr		1400		6688.89	6693.31		6693.89	0.00911	6.11	229.22	71.23	0.6	0.25	1.8
WestTrib	8577.833	100-yr		1700		6688.89	6694.25		6694.75	0.006079	5.7	298.32	75.64	0.51	0.17	1.46
WestTrib	8550.10*	2-yr		160		6688.23	6689.73	6689.68	6690.11	0.033915	4.92	32.52	37.63	0.93	0.97	1.8
WestTrib	8550.10*	5-yr		410		6688.23	6690.66	6690.45	6691.09	0.022775	5.26	77.92	60.72	0.82	0.79	1.81
WestTrib	8550.10*	10-yr		630		6688.23	6691.09	6690.89	6691.65	0.02156	5.99	105.24	64.78	0.83	0.67	2.16
WestTrib	8550.10*	25-yr		1100		6688.23	6692.17		6692.76	0.01279	6.2	177.5	69.7	0.68	0.33	2
WestTrib	8550.10*	50-yr		1400		6688.23	6693.13		6693.63	0.007489	5.67	246.93	73.8	0.55	0.2	1.53
WestTrib	8550.10*	100-yr		1700		6688.23	6694.15		6694.58	0.004846	5.24	324.44	78.42	0.45	0.14	1.22
WestTrib	8522.37*	2-yr		160		6687.57	6688.66	6688.64	6689.13	0.035737	5.51	29.06	29.06	0.97	0.97	2.16
WestTrib	8522.37*	5-yr		410		6687.57	6689.56	6689.56	6690.3	0.033824	6.9	59.46	40.59	1	0.69	2.99
WestTrib	8522.37*	10-yr		630		6687.57	6690.27	6690.13	6690.98	0.025799	6.75	93.35	54.08	0.91	0.55	2.71
WestTrib	8522.37*	25-yr		1100		6687.57	6692		6692.44	0.007975	5.27	208.79	72.69	0.55	0.23	1.39
WestTrib	8522.37*	50-yr		1400		6687.57	6693.06		6693.43	0.004803	4.87	287.67	76.71	0.44	0.16	1.09
WestTrib	8522.37*	100-yr		1700		6687.57	6694.11		6694.44	0.003305	4.58	370.82	81.45	0.38	0.12	0.91
WestTrib	8494.64*	2-yr		160		6686.91	6687.82	6687.75	6688.16	0.029781	4.66	34.31	38.65	0.87	0.34	1.61
WestTrib	8494.64*	5-yr		410		6686.91	6689.11	6688.48	6689.45	0.010989	4.72	86.79	44.34	0.6	0.24	1.28
WestTrib	8494.64*	10-yr		630		6686.91	6690.09	6689	6690.43	0.008091	4.66	135.23	56.26	0.53	0.2	1.16
WestTrib	8494.64*	25-yr		1100		6686.91	6691.93	6689.95	6692.2	0.004034	4.2	262.08	76.02	0.4	0.11	0.84
WestTrib	8494.64*	50-yr		1400		6686.91	6693.02	6690.4	6693.27	0.002753	4.04	346.82	79.65	0.34	0.07	0.72
WestTrib	8494.64*	100-yr		1700		6686.91	6694.08	6690.88	6694.32	0.00209	3.92	434.19	108.78	0.3	0.05	0.64
WestTrib	8466.917	2-yr		160		6686.25	6687.75	6686.95	6687.82	0.003263	2.14	74.6	50.69	0.31		0.29
WestTrib	8466.917	5-yr		410		6686.25	6689.08	6687.56	6689.21	0.00271	2.84	144.22	54.63	0.31		0.42

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	8466.917	10-yr		630		6686.25	6690.07	6687.96	6690.22	0.002425	3.16	199.44	62.16	0.3		0.48
WestTrib	8466.917	25-yr		1100		6686.25	6691.9	6688.77	6692.09	0.001747	3.54	310.47	79.54	0.28		0.53
WestTrib	8466.917	50-yr		1400		6686.25	6692.98	6689.19	6693.2	0.00149	3.72	376.31	82.67	0.26		0.54
WestTrib	8466.917	100-yr		1700		6686.25	6694.04	6689.58	6694.27	0.0013	3.86	440.54	123.79	0.25		0.55
WestTrib	8435.27		Culvert													
WestTrib	8403.688	2-yr		160		6685.08	6686.59	6685.8	6686.67	0.003387	2.17	73.59	50.58	0.32	0.12	0.3
WestTrib	8403.688	5-yr		410		6685.08	6687.74	6686.41	6687.88	0.003343	3.09	132.83	55.69	0.34	0.14	0.5
WestTrib	8403.688	10-yr		630		6685.08	6688.43	6686.84	6688.65	0.003574	3.71	169.76	57.22	0.37	0.15	0.67
WestTrib	8403.688	25-yr		1100		6685.08	6689.59	6687.59	6689.94	0.004003	4.73	232.31	64.4	0.41	0.16	1
WestTrib	8403.688	50-yr		1399.96	0.04	6685.08	6690.19	6688.01	6690.62	0.00425	5.27	265.77	92.99	0.43	0.17	1.17
WestTrib	8403.688	100-yr		1699.47	0.54	6685.08	6690.73	6688.44	6691.24	0.004381	5.75	296.31	102.53	0.44	0.19	1.35
WestTrib	8368.43*	2-yr		160		6684.73	6686.47		6686.55	0.003193	2.27	70.45	43.57	0.31	0.13	0.31
WestTrib	8368.43*	5-yr		410		6684.73	6687.58		6687.75	0.004072	3.32	123.6	51.72	0.38	0.17	0.59
WestTrib	8368.43*	10-yr		630		6684.73	6688.26		6688.5	0.00452	3.93	160.29	56.12	0.41	0.18	0.78
WestTrib	8368.43*	25-yr		1100		6684.73	6689.43		6689.78	0.004943	4.76	231.06	64.89	0.44	0.19	1.06
WestTrib	8368.43*	50-yr		1400		6684.73	6690.04		6690.45	0.005116	5.15	271.82	69.63	0.46	0.19	1.2
WestTrib	8368.43*	100-yr	5.76	1694.21	0.03	6684.73	6690.59		6691.05	0.004896	5.44	320.01	95.78	0.52	0.19	0.99
WestTrib	8333.18*	2-yr		160		6684.39	6686.33		6686.42	0.003939	2.49	64.29	40.94	0.35	0.16	0.38
WestTrib	8333.18*	5-yr		410		6684.39	6687.38		6687.58	0.005339	3.62	113.22	51.5	0.43	0.21	0.72
WestTrib	8333.18*	10-yr		630		6684.39	6688.04		6688.32	0.005721	4.22	149.31	56.81	0.46	0.22	0.92
WestTrib	8333.18*	25-yr		1100		6684.39	6689.2		6689.59	0.005749	4.99	220.23	65.15	0.48	0.21	1.18
WestTrib	8333.18*	50-yr		1400		6684.39	6689.81		6690.25	0.005753	5.37	260.6	69.07	0.49	0.21	1.32
WestTrib	8333.18*	100-yr	0.03	1699.98		6684.39	6690.37		6690.86	0.005658	5.66	300.55	76.86	0.5	0.2	1.35
WestTrib	8297.92*	2-yr		160		6684.04	6686.15		6686.26	0.005321	2.71	59.13	41.92	0.4	0.21	0.46
WestTrib	8297.92*	5-yr		410		6684.04	6687.14		6687.37	0.00669	3.84	106.67	52.91	0.48	0.24	0.83
WestTrib	8297.92*	10-yr		630		6684.04	6687.79		6688.1	0.006662	4.41	142.79	57.26	0.49	0.24	1.02
WestTrib	8297.92*	25-yr		1100		6684.04	6688.97		6689.38	0.006212	5.11	215.27	65.5	0.5	0.22	1.25
WestTrib	8297.92*	50-yr		1400		6684.04	6689.58		6690.04	0.006076	5.47	256.08	69.12	0.5	0.21	1.38
WestTrib	8297.92*	100-yr		1700		6684.04	6690.15		6690.66	0.005885	5.74	296.3	72.51	0.5	0.21	1.47
WestTrib	8262.67*	2-yr		160		6683.69	6685.93		6686.05	0.006369	2.78	57.55	44.99	0.43	0.38	0.5
WestTrib	8262.67*	5-yr		410		6683.69	6686.89		6687.12	0.007103	3.9	105.06	53.37	0.49	0.35	0.86
WestTrib	8262.67*	10-yr		630		6683.69	6687.55		6687.86	0.006869	4.44	141.98	57.84	0.5	0.33	1.04
WestTrib	8262.67*	25-yr		1100		6683.69	6688.76		6689.16	0.006102	5.07	217	65.97	0.49	0.3	1.23
WestTrib	8262.67*	50-yr		1400		6683.69	6689.38		6689.83	0.005917	5.41	258.59	69.45	0.49	0.29	1.35
WestTrib	8262.67*	100-yr		1700		6683.69	6689.95		6690.45	0.005695	5.67	299.58	72.72	0.49	0.28	1.43

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	8227.417	2-yr		198		6683.34	6685.41		6685.67	0.017444	4.11	48.21	44.78	0.7	4.58	1.17
WestTrib	8227.417	5-yr		479		6683.34	6686.39		6686.77	0.012711	4.99	96.03	52.25	0.65	4.5	1.44
WestTrib	8227.417	10-yr		730		6683.34	6687.06		6687.53	0.011282	5.5	132.65	56.78	0.63	4.48	1.62
WestTrib	8227.417	25-yr		1290		6683.34	6688.25		6688.86	0.009928	6.3	204.87	64.8	0.62	4.5	1.92
WestTrib	8227.417	50-yr		1630		6683.34	6688.86		6689.55	0.009276	6.63	245.84	68.23	0.62	4.58	2.04
WestTrib	8227.417	100-yr		1980		6683.34	6689.43		6690.18	0.008874	6.94	285.19	71.3	0.61	4.66	2.16
WestTrib	7777.832	2-yr		198		6678.53	6680.94		6681.1	0.006608	3.22	61.53	39.52	0.45	1.55	0.63
WestTrib	7777.832	5-yr		479		6678.53	6681.96		6682.28	0.008011	4.55	105.19	46.14	0.53	1.67	1.12
WestTrib	7777.832	10-yr		730		6678.53	6682.62		6683.05	0.008828	5.32	137.3	51.24	0.57	1.75	1.45
WestTrib	7777.832	25-yr		1290		6678.53	6683.7		6684.36	0.010066	6.53	197.69	59.74	0.63	1.88	2.03
WestTrib	7777.832	50-yr		1630		6678.53	6684.15		6684.96	0.011189	7.25	224.97	62.83	0.67	1.96	2.44
WestTrib	7777.832	100-yr		1980		6678.53	6684.54		6685.52	0.012139	7.91	250.36	65.1	0.71	2.03	2.84
WestTrib	7614.436	2-yr		198		6677.49	6679.31	6678.99	6679.54	0.014477	3.89	50.89	44.59	0.64	1.79	1.03
WestTrib	7614.436	5-yr		479		6677.49	6680.21	6679.73	6680.6	0.013414	5.03	95.31	53.58	0.66	1.84	1.48
WestTrib	7614.436	10-yr		730		6677.49	6680.81	6680.24	6681.31	0.013155	5.65	129.31	60.11	0.68	1.9	1.75
WestTrib	7614.436	25-yr	0.01	1289.99		6677.49	6681.8	6681.15	6682.48	0.013284	6.64	194.25	89.69	0.71	2	2.21
WestTrib	7614.436	50-yr	25.25	1604.26	0.49	6677.49	6682.23	6681.6	6683.01	0.012671	7.12	243.73	106.94	0.82	1.99	1.79
WestTrib	7614.436	100-yr	56.22	1920.09	3.69	6677.49	6682.62	6681.99	6683.49	0.012317	7.58	286.92	116.09	0.84	2	1.89
WestTrib	7377.832	2-yr		198		6675.39	6677.67		6677.75	0.004461	2.38	83.16	63.08	0.37	1.04	0.37
WestTrib	7377.832	5-yr		479		6675.39	6678.6		6678.76	0.004766	3.29	145.49	71.08	0.41	1.18	0.6
WestTrib	7377.832	10-yr	0.21	729.79		6675.39	6679.18		6679.41	0.00503	3.88	188.78	82.88	0.45	1.28	0.71
WestTrib	7377.832	25-yr	24.94	1265.06		6675.39	6680.13		6680.49	0.005366	4.87	285.71	119.94	0.55	1.48	0.79
WestTrib	7377.832	50-yr	61.04	1568.96		6675.39	6680.59		6681.01	0.005477	5.3	344.43	133.78	0.57	1.59	0.87
WestTrib	7377.832	100-yr	110.1	1869.87		6675.39	6681.01		6681.48	0.005584	5.69	402.82	146.24	0.59	1.65	0.95
WestTrib	7135.927	2-yr	0	197.78	0.21	6674.34	6676.63	6675.8	6676.72	0.004158	2.3	86.86	71.93	0.37	2.06	0.31
WestTrib	7135.927	5-yr	0.99	466.78	11.22	6674.34	6677.4	6676.49	6677.58	0.005026	3.43	151.28	96.96	0.48	2.28	0.49
WestTrib	7135.927	10-yr	4.3	691.72	33.98	6674.34	6677.88	6676.9	6678.13	0.00555	4.13	201.69	113.26	0.53	2.4	0.61
WestTrib	7135.927	25-yr	18.94	1164.77	106.29	6674.34	6678.58	6677.66	6679.01	0.007002	5.46	289.41	135.54	0.63	2.48	0.93
WestTrib	7135.927	50-yr	31.44	1439.09	159.47	6674.34	6678.9	6678.03	6679.43	0.007863	6.15	333.73	145.47	0.68	2.46	1.12
WestTrib	7135.927	100-yr	47.97	1709.84	222.19	6674.34	6679.22	6678.38	6679.84	0.008325	6.7	382.55	156.85	0.71	2.49	1.26
WestTrib	6927.82	2-yr		198		6673.33	6674.36	6674.36	6674.65	0.044912	4.34	45.6	79.58	1.01	0.31	1.6
WestTrib	6927.82	5-yr		479		6673.33	6674.83	6674.83	6675.29	0.038217	5.47	87.59	95.77	1.01	0.63	2.18
WestTrib	6927.82	10-yr		730		6673.33	6675.14	6675.14	6675.73	0.035233	6.15	118.63	102.19	1.01	0.87	2.55
WestTrib	6927.82	25-yr		1290		6673.33	6675.86	6675.7	6676.53	0.023926	6.57	196.22	114.36	0.88	1.19	2.55
WestTrib	6927.82	50-yr		1630		6673.33	6676.27		6676.96	0.019385	6.65	245.01	119.69	0.82	1.28	2.47
WestTrib	6927.82	100-yr	0.52	1979.48		6673.33	6676.57		6677.34	0.018373	7.04	282.04	129.34	0.84	1.37	2.49

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	6678.024	2-yr	20.17	173.86	3.97	6670.07	6673.56		6673.56	0.000259	0.8	274.87	139.1	0.1	0.18	0.03
WestTrib	6678.024	5-yr	47.38	416.91	14.7	6670.07	6674.18		6674.21	0.000641	1.49	363.66	145.23	0.16	0.39	0.1
WestTrib	6678.024	10-yr	71.79	631.83	26.38	6670.07	6674.55		6674.6	0.000973	1.99	417.91	151.6	0.2	0.56	0.17
WestTrib	6678.024	25-yr	102.7	1128.17	59.11	6670.07	6675.21		6675.33	0.00164	2.94	569.21	336.74	0.38	0.88	0.17
WestTrib	6678.024	50-yr	149.3	1401.2	79.52	6670.07	6675.52		6675.68	0.001953	3.38	681.08	379.28	0.41	1.04	0.22
WestTrib	6678.024	100-yr	245.9	1635.55	98.56	6670.07	6675.79		6675.97	0.002156	3.7	784.91	392.55	0.42	1.16	0.27
WestTrib	6485.523	2-yr	101.8	96.22		6670.07	6673.16	6673.16	6673.38	0.019694	5.19	83.07	161.38	0.93	0.96	0.63
WestTrib	6485.523	5-yr	325	153.97		6670.07	6673.55	6673.55	6673.82	0.026797	6.56	168.82	269.38	0.92	0.79	1.04
WestTrib	6485.523	10-yr	540.3	189.73		6670.07	6673.74	6673.74	6674.04	0.030556	7.27	224.26	301.14	0.9	0.7	1.41
WestTrib	6485.523	25-yr	1029	260.86		6670.07	6674.08	6674.08	6674.45	0.036504	8.43	331.84	332.82	0.86	0.63	2.26
WestTrib	6485.523	50-yr	1331	299.13		6670.07	6674.21	6674.21	6674.63	0.040796	9.09	374.04	336.98	0.88	0.61	2.81
WestTrib	6485.523	100-yr	1640	340.25		6670.07	6674.3	6674.3	6674.81	0.046722	9.88	406.93	340.07	0.92	0.63	3.47
WestTrib	6451.52	2-yr		198		6667.06	6668.27	6668.27	6668.64	0.041704	4.91	40.29	55.05	1.01	1.74	1.9
WestTrib	6451.52	5-yr		479		6667.06	6669.13	6668.88	6669.56	0.019508	5.27	90.92	63.17	0.77	3.77	1.74
WestTrib	6451.52	10-yr		730		6667.06	6669.81		6670.25	0.014168	5.31	137.6	74.19	0.69	3.79	1.62
WestTrib	6451.52	25-yr		1290		6667.06	6670.94		6671.41	0.010831	5.5	234.47	97.6	0.63	3.78	1.6
WestTrib	6451.52	50-yr		1630		6667.06	6671.47		6671.96	0.009905	5.63	289.37	108.69	0.61	3.78	1.63
WestTrib	6451.52	100-yr	0.65	1979.35		6667.06	6672		6672.49	0.00972	5.66	352.38	173.52	0.7	3.79	1.22
WestTrib	6177.403	2-yr		198		6662.01	6665.2		6665.28	0.002289	2.25	87.92	43.49	0.28	0.1	0.28
WestTrib	6177.403	5-yr		479		6662.01	6665.41		6665.79	0.010119	4.92	97.31	45.41	0.59	0.54	1.33
WestTrib	6177.403	10-yr		730		6662.01	6665.88		6666.46	0.013409	6.12	119.35	49.62	0.69	0.88	1.98
WestTrib	6177.403	25-yr	12.62	1277.38	0	6662.01	6666.65	6666.32	6667.63	0.017621	7.98	170.06	82.76	0.98	1.36	2.24
WestTrib	6177.403	50-yr	34.53	1593.82	1.65	6662.01	6666.96	6666.87	6668.19	0.01952	8.99	198.61	97.22	1.1	1.57	2.47
WestTrib	6177.403	100-yr	68.65	1903.86	7.49	6662.01	6667.31	6667.31	6668.72	0.019929	9.71	234.49	114.56	1.17	1.79	2.53
WestTrib	5998.479	2-yr	6.18	190.02	1.8	6659.31	6665.16		6665.18	0.000193	1	237.72	154.1	0.14	0.12	0.02
WestTrib	5998.479	5-yr	14.86	459.82	4.33	6659.31	6665.16		6665.25	0.001134	2.41	237.12	152.9	0.33	0.31	0.11
WestTrib	5998.479	10-yr	35.71	685.07	9.22	6659.31	6665.42		6665.58	0.002026	3.37	292.45	244	0.53	0.59	0.15
WestTrib	5998.479	25-yr	174.7	1086.2	29.14	6659.31	6665.98		6666.27	0.003295	4.69	446.65	305.88	0.63	0.78	0.3
WestTrib	5998.479	50-yr	292.9	1290.7	46.41	6659.31	6666.28		6666.62	0.003781	5.23	544.54	348.84	0.66	0.76	0.37
WestTrib	5998.479	100-yr	413.3	1502.71	63.98	6659.31	6666.46		6666.87	0.004546	5.88	609.33	365.77	0.7	1.05	0.47
WestTrib	5863.168	2-yr	0.24	188.57	9.19	6663.44	6664.73	6664.73	6665.06	0.033556	4.7	47.15	352.32	1.08	0.9	1.18
WestTrib	5863.168	5-yr	362.2	108.48	8.33	6663.44	6664.9	6664.9	6664.94	0.005873	2.23	335.24	388.67	0.3	0.37	0.32
WestTrib	5863.168	10-yr	552	165.32	12.7	6663.44	6664.9	6664.9	6664.99	0.013641	3.4	335.24	388.67	0.45	0.55	0.73
WestTrib	5863.168	25-yr	970.6	281.18	38.23	6663.44	6665.38	6664.9	6665.49	0.010256	3.86	530.47	425.11	0.42	0.41	0.8
WestTrib	5863.168	50-yr	1214	345.16	70.64	6663.44	6665.76	6664.92	6665.86	0.007158	3.76	695.27	445.73	0.36	0.34	0.7
WestTrib	5863.168	100-yr	1479	422.77	78.72	6663.44	6665.65	6665.04	6665.83	0.013122	4.9	647.89	440.47	0.49	0.37	1.2

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	5837.669	2-yr	0	198		6659.58	6661.28	6661.28	6661.78	0.035923	5.66	34.98	34.55	0.99	0.18	2.25
WestTrib	5837.669	5-yr	1.77	477.23		6659.58	6662.11	6662.11	6662.96	0.029793	7.44	65.16	38.51	1.01	0.36	3.09
WestTrib	5837.669	10-yr	7.51	722.49		6659.58	6662.77	6662.77	6663.79	0.024523	8.14	93.84	51.41	1.06	0.45	2.75
WestTrib	5837.669	25-yr	127.7	1162.27		6659.58	6664.2	6664.2	6665.09	0.016658	7.92	210.05	264.14	1.05	0.47	1.66
WestTrib	5837.669	50-yr	244.7	1380.29	5.05	6659.58	6664.6	6664.6	6665.52	0.015974	8.28	272.17	351.68	1.11	0.5	1.47
WestTrib	5837.669	100-yr	610.7	1351.21	18.06	6659.58	6664.82	6664.82	6665.46	0.01238	7.6	480.71	372.83	0.99	0.42	0.99
WestTrib	5761.531	2-yr	9.09	171.87	17.04	6656.79	6660.95		6660.96	0.000143	0.88	271.97	92.83	0.09	0.1	0.03
WestTrib	5761.531	5-yr	28.3	404.98	45.72	6656.79	6661.6		6661.64	0.000475	1.77	350.89	210.59	0.23	0.26	0.05
WestTrib	5761.531	10-yr	65.22	592.69	72.09	6656.79	6662		6662.07	0.000769	2.39	452.29	267.38	0.29	0.38	0.08
WestTrib	5761.531	25-yr	202.8	957.44	129.73	6656.79	6662.65		6662.79	0.001321	3.4	632.26	279.02	0.35	0.57	0.19
WestTrib	5761.531	50-yr	314.5	1153.21	162.26	6656.79	6663.03		6663.2	0.001541	3.84	743.2	310.09	0.37	0.58	0.23
WestTrib	5761.531	100-yr	438.3	1344.92	196.74	6656.79	6663.33		6663.53	0.001785	4.26	838.25	332.08	0.4	0.65	0.28
WestTrib	5566.663	2-yr	72.31	125.69		6659.82	6660.79		6660.86	0.014289	2.4	94.94	170.42	0.51	0.19	0.5
WestTrib	5566.663	5-yr	161.6	316.72	0.67	6659.82	6661.26		6661.38	0.011869	3.22	203.3	260.03	0.55	0.19	0.58
WestTrib	5566.663	10-yr	272.7	453.69	3.66	6659.82	6661.55		6661.69	0.010176	3.55	281.92	269.33	0.52	0.19	0.66
WestTrib	5566.663	25-yr	510.3	763.8	15.92	6659.82	6662.02		6662.23	0.01038	4.4	411.47	295.94	0.55	0.21	0.9
WestTrib	5566.663	50-yr	659.8	936.83	33.42	6659.82	6662.41		6662.62	0.007879	4.39	535.51	326.57	0.5	0.18	0.81
WestTrib	5566.663	100-yr	814	1125.55	40.49	6659.82	6662.64		6662.88	0.008206	4.79	615.62	393.39	0.55	0.19	0.8
WestTrib	5544.6	2-yr	102.2	107.83		6659.26	6660.63		6660.67	0.005398	1.9	165.29	261.77	0.33	0.12	0.21
WestTrib	5544.6	5-yr	291.2	238.83	0	6659.26	6661.12		6661.19	0.005736	2.58	303.82	293.08	0.35	0.12	0.37
WestTrib	5544.6	10-yr	461.8	358.03	0.17	6659.26	6661.42		6661.51	0.006308	3.12	392.42	308.85	0.38	0.14	0.5
WestTrib	5544.6	25-yr	809.6	588.36	2.02	6659.26	6661.88		6662.02	0.007059	3.94	540.61	333.53	0.42	0.16	0.71
WestTrib	5544.6	50-yr	1172	822.66	5.64	6659.26	6662.25		6662.44	0.007777	4.64	670.96	369.33	0.46	0.17	0.88
WestTrib	5544.6	100-yr	1411	977.04	11.92	6659.26	6662.47		6662.69	0.008199	5.05	753.22	394.66	0.48	0.18	0.98
WestTrib	5525.06*	2-yr	69.82	140.18		6658.68	6660.5		6660.55	0.006053	2.15	148.19	259.35	0.43	0.11	0.22
WestTrib	5525.06*	5-yr	241.1	288.53	0.33	6658.68	6660.98		6661.06	0.006236	2.86	286.15	298.9	0.41	0.14	0.37
WestTrib	5525.06*	10-yr	401.7	416.42	1.84	6658.68	6661.26		6661.37	0.007012	3.44	369.91	311.97	0.44	0.16	0.52
WestTrib	5525.06*	25-yr	728.8	661.11	10.1	6658.68	6661.69		6661.86	0.008055	4.31	515.77	361.25	0.49	0.17	0.72
WestTrib	5525.06*	50-yr	1070	896.49	33.92	6658.68	6662.05		6662.27	0.008657	4.97	651.55	389.41	0.51	0.19	0.9
WestTrib	5525.06*	100-yr	1295	1051.99	52.73	6658.68	6662.25		6662.51	0.009112	5.38	733.16	411.44	0.53	0.2	1.01
WestTrib	5505.53*	2-yr	42.89	167.04	0.08	6658.09	6660.38		6660.44	0.005333	2.2	138.12	251.74	0.47	0.09	0.18
WestTrib	5505.53*	5-yr	182.9	344.23	2.9	6658.09	6660.82		6660.93	0.006939	3.18	265.76	326.09	0.52	0.12	0.35
WestTrib	5505.53*	10-yr	327	480.22	12.83	6658.09	6661.07		6661.21	0.007969	3.79	350.93	347.7	0.54	0.15	0.5
WestTrib	5505.53*	25-yr	619.1	728.01	52.87	6658.09	6661.48		6661.69	0.008926	4.63	501.64	376.81	0.55	0.17	0.74
WestTrib	5505.53*	50-yr	931.8	969.27	98.9	6658.09	6661.83		6662.08	0.009624	5.31	636.31	409.42	0.57	0.2	0.93
WestTrib	5505.53*	100-yr	1141	1121.8	136.76	6658.09	6662.02		6662.31	0.009993	5.7	718.86	427.04	0.58	0.21	1.05

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	5485.99*	2-yr	30.5	175.1	4.4	6657.51	6660.3		6660.35	0.003158	1.92	156.9	271.93	0.41	0.05	0.11
WestTrib	5485.99*	5-yr	125.4	372.19	32.38	6657.51	6660.69		6660.8	0.005805	3.12	282.7	363.12	0.53	0.1	0.28
WestTrib	5485.99*	10-yr	237.9	516.59	65.54	6657.51	6660.91		6661.06	0.007407	3.83	361.97	369.62	0.56	0.14	0.45
WestTrib	5485.99*	25-yr	494.4	766.42	139.16	6657.51	6661.3		6661.51	0.008593	4.69	510.18	389.59	0.57	0.16	0.7
WestTrib	5485.99*	50-yr	768.1	1018.55	213.33	6657.51	6661.61		6661.89	0.009852	5.47	638.15	427.27	0.6	0.19	0.92
WestTrib	5485.99*	100-yr	953.2	1172.88	273.96	6657.51	6661.8		6662.1	0.010395	5.88	717.5	443.82	0.62	0.2	1.05
WestTrib	5466.45*	2-yr	24.18	154.58	31.23	6656.93	6660.28		6660.3	0.001283	1.4	231.04	289.24	0.24	0.02	0.06
WestTrib	5466.45*	5-yr	83.42	348.91	97.66	6656.93	6660.63		6660.7	0.003311	2.57	342.21	374.55	0.4	0.06	0.19
WestTrib	5466.45*	10-yr	163.9	499.77	156.36	6656.93	6660.81		6660.93	0.005003	3.36	410.88	381.75	0.47	0.09	0.33
WestTrib	5466.45*	25-yr	375.3	772.28	252.41	6656.93	6661.16		6661.35	0.007087	4.44	551.42	419.13	0.54	0.14	0.58
WestTrib	5466.45*	50-yr	601.3	1020.59	378.15	6656.93	6661.45		6661.7	0.008539	5.26	674.27	444.19	0.57	0.17	0.81
WestTrib	5466.45*	100-yr	758.1	1178.78	463.11	6656.93	6661.61		6661.9	0.009338	5.72	749.67	461.63	0.6	0.19	0.94
WestTrib	5446.92*	2-yr	19.27	128.22	62.51	6656.34	6660.27		6660.28	0.000486	0.97	332.9	305.81	0.14	0.01	0.03
WestTrib	5446.92*	5-yr	71.73	303.3	154.97	6656.34	6660.6		6660.64	0.001576	1.95	441.45	356.19	0.25	0.03	0.12
WestTrib	5446.92*	10-yr	123.1	465.51	231.39	6656.34	6660.75		6660.83	0.002965	2.8	499.84	410.25	0.36	0.06	0.22
WestTrib	5446.92*	25-yr	276.8	726.1	397.14	6656.34	6661.08		6661.21	0.004711	3.84	636.85	441.12	0.44	0.09	0.42
WestTrib	5446.92*	50-yr	458.5	975.11	566.39	6656.34	6661.33		6661.53	0.00627	4.71	752.02	463.73	0.49	0.13	0.63
WestTrib	5446.92*	100-yr	584.2	1135.14	680.64	6656.34	6661.48		6661.72	0.007201	5.22	822.44	481.88	0.53	0.15	0.76
WestTrib	5427.389	2-yr	16.34	111.19	82.46	6655.76	6660.27	6657.5	6660.27	0.000216	0.72	456.13	341.2	0.09		0.02
WestTrib	5427.389	5-yr	59.07	268.41	202.51	6655.76	6660.59	6659.02	6660.61	0.000802	1.52	576.84	397.52	0.17		0.07
WestTrib	5427.389	10-yr	104.4	403.8	311.79	6655.76	6660.73	6660.01	6660.78	0.00151	2.16	635.03	413.2	0.24		0.14
WestTrib	5427.389	25-yr	218.5	653.87	527.6	6655.76	6661.03	6660.01	6661.12	0.002783	3.15	763.7	451.09	0.32		0.29
WestTrib	5427.389	50-yr	352.4	899.43	748.16	6655.76	6661.26	6660.01	6661.4	0.004103	4.02	871.74	484.05	0.39		0.46
WestTrib	5427.389	100-yr	449.8	1056.36	893.84	6655.76	6661.39	6660.06	6661.57	0.00494	4.53	937.56	503.23	0.43		0.57
WestTrib	5398.42		Culvert													
WestTrib	5379.875	2-yr		230		6655.48	6658.04	6657.43	6658.57	0.021991	5.85	39.3	48.53	0.65	1.22	3.48
WestTrib	5379.875	5-yr		560		6655.48	6659.02	6658.51	6659.2	0.006068	3.46	162.01	51.51	0.34	1.85	1.14
WestTrib	5379.875	10-yr	5.47	850.48	4.05	6655.48	6659.38	6658.51	6659.72	0.009994	4.7	214.32	338.56	1.03	1.92	0.39
WestTrib	5379.875	25-yr	116.6	1222.79	160.59	6655.48	6659.96	6658.87	6660.36	0.014868	5.59	556.7	670.17	0.98	1.72	0.77
WestTrib	5379.875	50-yr	255.1	1421	323.94	6655.48	6660.31	6660.12	6660.7	0.01432	5.87	805.99	769.43	0.86	1.69	0.93
WestTrib	5379.875	100-yr	391.7	1592.77	515.56	6655.48	6660.59	6660.28	6660.96	0.014151	6.12	1025.32	830.09	0.78	1.69	1.09
WestTrib	5249.459	2-yr	59.79	138.61	31.6	6655.84	6657.33	6656.71	6657.35	0.003688	1.56	286.56	365.93	0.25	3.08	0.18
WestTrib	5249.459	5-yr	116.7	372	71.27	6655.84	6657.04	6657.04	6657.35	0.059562	5.33	190.34	310.17	1	1.61	2.28
WestTrib	5249.459	10-yr	246.9	468.47	144.59	6655.84	6657.63	6657.22	6657.8	0.021244	4.29	405.74	418.95	0.59	3.33	1.28
WestTrib	5249.459	25-yr	483.6	666.53	349.92	6655.84	6658.52	6657.65	6658.64	0.010105	3.95	868.82	687.72	0.44	4.08	0.8
WestTrib	5249.459	50-yr	654.7	832.65	512.65	6655.84	6658.87	6657.93	6659	0.010271	4.34	1130.76	788.64	0.44	4.13	0.92

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	5249.459	100-yr	803.9	970.62	725.5	6655.84	6659.12	6658.11	6659.27	0.010486	4.64	1338.11	828.91	0.43	4.11	1.06
WestTrib	4939.985	2-yr	1.4	228.6		6653.56	6654.12	6654.09	6654.27	0.075677	3.06	76.75	433.75	0.89	4	1.71
WestTrib	4939.985	5-yr	4.1	153.18	402.73	6653.56	6654.68	6654.36	6654.69	0.001678	0.82	776.52	536.44	0.11	0.65	0.15
WestTrib	4939.985	10-yr	3.42	184.44	672.14	6653.56	6654.45	6654.45	6654.47	0.006343	1.33	659.04	468.63	0.2	1.1	0.56
WestTrib	4939.985	25-yr	6.78	337.31	1155.9	6653.56	6654.49	6654.45	6654.56	0.017833	2.3	676.77	475.05	0.33	1.83	1.58
WestTrib	4939.985	50-yr	21.72	585.79	1392.5	6653.56	6654.77	6654.45	6654.87	0.017881	2.86	826.89	543.67	0.36	1.7	1.69
WestTrib	4939.985	100-yr	53.52	845.68	1600.8	6653.56	6655.04	6654.45	6655.16	0.017313	3.27	974.04	564.29	0.37	1.62	1.86
WestTrib	4838.839	2-yr		230		6647.04	6650	6649.48	6650.27	0.024178	4.16	55.33	38.7	0.61	1.67	2.13
WestTrib	4838.839	5-yr	0.06	503.5	56.45	6647.04	6650.97	6650.67	6651.32	0.023885	5.03	156.05	165.17	0.87	1.37	1.4
WestTrib	4838.839	10-yr	3.06	696.75	160.19	6647.04	6651.49	6651.19	6651.87	0.020596	5.48	259.04	218.81	0.8	1.29	1.52
WestTrib	4838.839	25-yr	24.21	1052.26	423.53	6647.04	6652.32	6651.79	6652.74	0.017597	6.16	516.3	406.12	0.81	1.25	1.39
WestTrib	4838.839	50-yr	45.44	1226.04	728.52	6647.04	6652.79	6652.06	6653.18	0.015253	6.28	716.1	443.01	0.69	1.19	1.54
WestTrib	4838.839	100-yr	68.67	1391.01	1040.3	6647.04	6653.16	6652.06	6653.54	0.014365	6.48	881.72	457.89	0.63	1.17	1.72
WestTrib	4753.93	2-yr		230		6645.76	6648.39		6648.61	0.01595	3.71	61.96	37.38	0.51	2.47	1.62
WestTrib	4753.93	5-yr		556.08	3.92	6645.76	6649.78		6649.95	0.010904	3.33	172.97	102.13	0.45	2.12	1.14
WestTrib	4753.93	10-yr	0.02	846.44	13.54	6645.76	6650.36		6650.58	0.010894	3.83	236.65	118.02	0.47	2.11	1.35
WestTrib	4753.93	25-yr	4.07	1449.35	46.57	6645.76	6651.13		6651.49	0.012137	4.9	354.47	286.16	0.76	2.1	0.94
WestTrib	4753.93	50-yr	38.86	1851.49	109.65	6645.76	6651.55	6650.42	6651.99	0.012858	5.5	515.59	486.59	0.91	2.09	0.85
WestTrib	4753.93	100-yr	109	2182.35	208.69	6645.76	6651.89	6650.77	6652.37	0.013111	5.91	727.2	705.46	0.96	1.92	0.84
WestTrib	4577.833	2-yr		230		6642.7	6645.93		6646.13	0.012424	3.63	63.41	32.57	0.46	7.04	1.47
WestTrib	4577.833	5-yr		559.95	0.05	6642.7	6647.6		6647.82	0.013329	3.74	149.95	81.31	0.49	7.03	1.51
WestTrib	4577.833	10-yr	4.57	852.13	3.3	6642.7	6648.18		6648.47	0.013177	4.32	217.21	184.9	0.7	6.57	0.96
WestTrib	4577.833	25-yr	120.4	1341.31	38.33	6642.7	6649.05	6648.04	6649.4	0.011661	4.99	459.24	362.08	0.74	5.67	0.92
WestTrib	4577.833	50-yr	270.5	1630.08	99.43	6642.7	6649.55		6649.9	0.010701	5.26	646.65	387.57	0.65	5.09	1.11
WestTrib	4577.833	100-yr	463.6	1873.39	162.97	6642.7	6650.12		6650.44	0.008846	5.25	891.57	481.52	0.59	4.72	1.02
WestTrib	4290.608	2-yr		230		6635.42	6638.3	6638.3	6639.09	0.06718	7.14	32.21	20.8	1.01	4.16	6.2
WestTrib	4290.608	5-yr	0.51	559.01	0.48	6635.42	6639.59	6639.59	6640.78	0.056391	8.78	64.79	31.47	1.08	4.51	6.91
WestTrib	4290.608	10-yr	12.55	844.36	3.09	6635.42	6640.45	6640.45	6641.91	0.046647	9.78	96.07	40.9	1.11	4.45	6.54
WestTrib	4290.608	25-yr	82.48	1399.73	17.79	6635.42	6641.9	6641.9	6643.73	0.03757	11.22	169.39	62.72	1.16	4.34	6.13
WestTrib	4290.608	50-yr	168.6	1774.4	57	6635.42	6642.89	6642.89	6644.81	0.032006	11.76	240.48	80.49	1.13	4.05	5.81
WestTrib	4290.608	100-yr	246.2	2155.57	98.21	6635.42	6643.4	6643.4	6645.72	0.035536	13.12	283.65	89.47	1.21	4.4	6.86
WestTrib	4034.844	2-yr		230		6632.25	6634.64		6634.8	0.006736	3.2	71.97	47.67	0.46	2.18	0.63
WestTrib	4034.844	5-yr		560		6632.25	6635.67		6635.98	0.0078	4.46	125.49	56.02	0.53	2.23	1.08
WestTrib	4034.844	10-yr		860		6632.25	6636.36		6636.77	0.008131	5.19	165.57	60.55	0.55	2.24	1.37
WestTrib	4034.844	25-yr	0.06	1499.92	0.01	6632.25	6637.51		6638.11	0.008439	6.19	242.5	72.39	0.6	2.34	1.74
WestTrib	4034.844	50-yr	4.22	1994.92	0.85	6632.25	6638.2		6638.93	0.008176	6.87	295.4	81.22	0.63	2.46	1.83

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	4034.844	100-yr	13.86	2483.15	2.99	6632.25	6638.7		6639.6	0.00867	7.64	337.58	87.5	0.68	2.4	2.06
WestTrib	3777.832	2-yr		230		6630.53	6632.43		6632.62	0.010926	3.53	65.07	53.24	0.56	2.46	0.83
WestTrib	3777.832	5-yr		560		6630.53	6633.42		6633.75	0.009657	4.62	121.22	60.28	0.57	2.51	1.2
WestTrib	3777.832	10-yr		860		6630.53	6634.1		6634.53	0.009381	5.24	163.98	65.85	0.59	2.55	1.44
WestTrib	3777.832	25-yr		1500		6630.53	6635.16		6635.77	0.00983	6.28	238.94	75.76	0.62	2.7	1.91
WestTrib	3777.832	50-yr		2000		6630.53	6635.68		6636.47	0.01128	7.15	279.61	80.78	0.68	2.83	2.4
WestTrib	3777.832	100-yr	0.96	2497.45	1.59	6630.53	6636.31		6637.19	0.010075	7.54	334.6	93.09	0.7	3.32	2.23
WestTrib	3377.832	2-yr		230		6627.76	6630.08		6630.16	0.003861	2.34	98.22	68.35	0.34	3.55	0.34
WestTrib	3377.832	5-yr		560		6627.76	6631.07		6631.24	0.004256	3.29	170.26	76.37	0.39	3.48	0.59
WestTrib	3377.832	10-yr	0.45	859.55		6627.76	6631.75		6631.98	0.004442	3.84	224.85	90.72	0.43	3.5	0.68
WestTrib	3377.832	25-yr	59.45	1440.55		6627.76	6632.74		6633.07	0.004666	4.67	386.09	253.26	0.65	3.47	0.44
WestTrib	3377.832	50-yr	208.4	1791.44	0.2	6627.76	6633.28		6633.64	0.004489	5.03	525.75	261.51	0.59	3.25	0.56
WestTrib	3377.832	100-yr	277.9	2221.74	0.32	6627.76	6633.34		6633.87	0.006573	6.15	541.61	262.31	0.71	3.05	0.84
WestTrib	2977.832	2-yr		230		6623.3	6626	6626	6626.62	0.035736	6.28	36.61	30.4	1.01	3.96	2.64
WestTrib	2977.832	5-yr	31.34	526.65	2.01	6623.3	6627.01	6627.01	6627.77	0.025105	7.19	90.12	70.78	1.09	4.31	1.98
WestTrib	2977.832	10-yr	85.1	761.66	13.24	6623.3	6627.55	6627.55	6628.47	0.023045	8.13	131.47	82.93	1.08	4.38	2.26
WestTrib	2977.832	25-yr	224.5	1207.76	67.71	6623.3	6628.47	6628.47	6629.6	0.019984	9.36	217.81	103.6	1.04	4.39	2.6
WestTrib	2977.832	50-yr	313.1	1549.48	137.43	6623.3	6629.17	6629.17	6630.4	0.017527	9.95	306.1	149.99	1.09	4.41	2.22
WestTrib	2977.832	100-yr	493.8	1573.08	433.17	6623.3	6630.15	6630.15	6630.82	0.008852	8.15	687.73	562.33	1.05	3.39	0.67
WestTrib	2577.832	2-yr		230		6617.05	6619.8		6619.96	0.00435	3.16	72.68	34.55	0.38	1.5	0.56
WestTrib	2577.832	5-yr	0.01	559.99		6617.05	6621.21		6621.5	0.005668	4.34	129.03	47.11	0.46	1.95	0.94
WestTrib	2577.832	10-yr	1.21	858.77	0.02	6617.05	6622.03		6622.44	0.006037	5.1	169.96	54.88	0.51	2.13	1.13
WestTrib	2577.832	25-yr	8.69	1476.43	14.89	6617.05	6623.21		6623.86	0.006577	6.49	245.05	71.15	0.61	2.39	1.38
WestTrib	2577.832	50-yr	17.77	1940.44	41.79	6617.05	6623.87		6624.71	0.007234	7.45	294.72	79.44	0.67	2.56	1.63
WestTrib	2577.832	100-yr	29.55	2410.66	59.8	6617.05	6624.43	6623.03	6625.48	0.007927	8.36	350.85	135.75	0.9	2.73	1.26
WestTrib	2345.77	2-yr		229.98	0.02	6615.6	6618.23		6618.45	0.010526	3.76	61.23	45.06	0.57	3.34	0.89
WestTrib	2345.77	5-yr		557.35	2.65	6615.6	6619.06		6619.55	0.013399	5.66	101.32	55.58	0.74	3.23	1.51
WestTrib	2345.77	10-yr		844.06	15.94	6615.6	6619.6	6619.16	6620.31	0.014961	6.83	135.54	74.08	0.88	3.26	1.69
WestTrib	2345.77	25-yr	0.12	1391.93	107.95	6615.6	6620.41	6620.28	6621.46	0.017657	8.52	210.85	106.08	1.03	3.31	2.17
WestTrib	2345.77	50-yr	3.28	1783.49	213.23	6615.6	6620.9	6620.86	6622.16	0.018011	9.47	267.3	122.39	1.07	3.39	2.44
WestTrib	2345.77	100-yr	11.38	2153.65	334.98	6615.6	6621.31	6621.31	6622.75	0.018515	10.29	320.32	135.65	1.1	3.41	2.71
WestTrib	2032.471	2-yr	0.35	229.65		6611.73	6614.87		6615.11	0.010759	3.93	59.41	51.14	0.64	3.54	0.77
WestTrib	2032.471	5-yr	51	508.62	0.37	6611.73	6616	6615.33	6616.33	0.007956	4.78	145.68	100.92	0.67	3.2	0.71
WestTrib	2032.471	10-yr	132.1	722.99	4.91	6611.73	6616.67	6615.94	6617.05	0.007266	5.36	220.57	129.27	0.67	2.94	0.77
WestTrib	2032.471	25-yr	374.4	1098.07	27.51	6611.73	6617.71		6618.15	0.006414	6.1	380.89	175.22	0.64	2.6	0.87
WestTrib	2032.471	50-yr	585.3	1359.72	54.94	6611.73	6618.27		6618.76	0.006451	6.65	485.92	197.51	0.63	2.45	0.99

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	2032.471	100-yr	819.8	1587.77	92.39	6611.73	6618.78		6619.3	0.006248	7.01	590.47	212.4	0.61	2.39	1.08
WestTrib	1777.832	2-yr		229.99	0.01	6606.72	6611.1	6610.49	6611.57	0.018412	5.49	41.95	24.43	0.74	2.17	1.79
WestTrib	1777.832	5-yr	11.72	543.39	4.88	6606.72	6612.16	6612.07	6613.13	0.021504	8.05	77.49	45.45	1.07	2.24	2.16
WestTrib	1777.832	10-yr	59.42	782.58	18	6606.72	6612.93	6612.93	6614.1	0.019598	9.06	118.82	61.07	1.1	2.08	2.28
WestTrib	1777.832	25-yr	237.6	1207.04	55.37	6606.72	6614.18	6614.18	6615.54	0.017076	10.34	213.53	94.9	1.1	1.71	2.33
WestTrib	1777.832	50-yr	439.5	1448.3	112.22	6606.72	6614.99	6614.99	6616.31	0.014576	10.61	302.29	123.47	1.04	1.46	2.17
WestTrib	1777.832	100-yr	624.9	1674.19	200.91	6606.72	6615.54	6615.54	6616.91	0.014324	11.18	373.7	138.64	1.01	1.45	2.36
WestTrib	1691.543	2-yr		230		6606.05	6608.65	6608.65	6609.41	0.035322	7.01	32.82	22.02	1.01	3.28	3.1
WestTrib	1691.543	5-yr		558.56	1.44	6606.05	6610.02	6610.02	6610.89	0.031143	7.52	75.42	46.75	1.04	3.21	3.02
WestTrib	1691.543	10-yr	0.05	844.9	15.05	6606.05	6610.67	6610.67	6611.67	0.028835	8.07	111.83	64.53	1.07	3.16	3.04
WestTrib	1691.543	25-yr	19.67	1402.78	77.55	6606.05	6611.66	6611.66	6612.87	0.022005	9.12	190.67	93.33	1.09	2.95	2.75
WestTrib	1691.543	50-yr	62.45	1794.98	142.57	6606.05	6612.26	6612.26	6613.6	0.019825	9.75	250.87	106.01	1.06	2.87	2.88
WestTrib	1691.543	100-yr	116.8	2174.3	208.89	6606.05	6612.72	6612.72	6614.23	0.019639	10.5	301.92	115.77	1.08	2.88	3.14
WestTrib	1408.459	2-yr		230		6603.07	6605.96	6605.35	6606.05	0.005213	2.45	93.9	76.2	0.39	4.44	0.4
WestTrib	1408.459	5-yr		560		6603.07	6606.85	6605.89	6607.03	0.005275	3.41	164.26	81.63	0.42	4.3	0.65
WestTrib	1408.459	10-yr		860		6603.07	6607.47	6606.31	6607.72	0.005289	3.97	216.38	85.42	0.44	4.23	0.82
WestTrib	1408.459	25-yr		1500		6603.07	6608.55	6607.03	6608.91	0.005281	4.81	311.7	91.97	0.46	4.12	1.1
WestTrib	1408.459	50-yr	1.36	1998.64		6603.07	6609.24	6607.5	6609.67	0.005269	5.3	379.51	108.89	0.5	4.08	1.13
WestTrib	1408.459	100-yr	14.11	2485.88	0.01	6603.07	6609.8	6607.94	6610.32	0.005247	5.76	446.31	122.06	0.53	4.03	1.18
WestTrib	1013.077	2-yr		230		6599.64	6601.12	6601.12	6601.62	0.03818	5.64	40.76	42.31	1.01	0.37	2.28
WestTrib	1013.077	5-yr		560		6599.64	6601.93	6601.93	6602.73	0.032353	7.17	78.08	49.79	1.01	0.62	3.14
WestTrib	1013.077	10-yr		860		6599.64	6602.48	6602.48	6603.49	0.03004	8.08	106.45	53.59	1.01	0.79	3.68
WestTrib	1013.077	25-yr		1500		6599.64	6603.43	6603.43	6604.78	0.027223	9.33	160.78	60.39	1.01	1.16	4.46
WestTrib	1013.077	50-yr		2000		6599.64	6604.11	6604.11	6605.59	0.026292	9.79	204.31	69.55	1.01	1.43	4.75
WestTrib	1013.077	100-yr		2500		6599.64	6604.67	6604.67	6606.28	0.025459	10.16	245.96	77.27	1	1.73	4.99
WestTrib	619.9514	2-yr		230		6596.37	6600		6600.01	0.000165	0.74	312.11	115.51	0.08	0.19	0.03
WestTrib	619.9514	5-yr		560		6596.37	6601.24		6601.26	0.000294	1.22	459.05	122.44	0.11	0.3	0.07
WestTrib	619.9514	10-yr		860		6596.37	6601.98		6602.01	0.000396	1.56	550.91	126.78	0.13	0.38	0.11
WestTrib	619.9514	25-yr		1500		6596.37	6602.99		6603.07	0.000656	2.19	684.33	138.13	0.17	0.52	0.2
WestTrib	619.9514	50-yr		2000		6596.37	6603.55		6603.66	0.00091	2.62	764.73	151.53	0.21	0.66	0.28
WestTrib	619.9514	100-yr	0.4	2499.59	0.01	6596.37	6604.06		6604.19	0.001216	2.94	851.71	203.11	0.25	0.82	0.32
WestTrib	388.339	2-yr		230		6597.46	6599.27	6599.27	6599.82	0.036804	5.99	38.42	35.48	1.01	0.67	2.47
WestTrib	388.339	5-yr		560		6597.46	6600.23	6600.23	6600.96	0.033389	6.87	81.46	56.81	1.01	0.67	2.97
WestTrib	388.339	10-yr		860		6597.46	6600.76	6600.76	6601.63	0.032135	7.5	114.7	68.24	1.02	0.68	3.35
WestTrib	388.339	25-yr	38.57	1461.43		6597.46	6601.79	6601.79	6602.55	0.024236	7.1	232.57	185.23	1.1	0.56	1.89
WestTrib	388.339	50-yr	124.9	1875.05	0.07	6597.46	6602.16	6602.16	6603	0.023437	7.56	308.33	213.09	1.08	0.57	2.11

Falcon DBPS

West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	388.339	100-yr	230.6	2268.36	1.03	6597.46	6602.45	6602.45	6603.38	0.022373	8.05	371.7	217.4	1.04	0.56	2.38
WestTrib	357.5013	2-yr		229.93	0.07	6595.39	6597.08	6596.67	6597.23	0.010381	3.13	73.66	71.38	0.54		0.67
WestTrib	357.5013	5-yr		549.62	10.38	6595.39	6597.86	6597.31	6598.11	0.01038	4.1	144.21	109.75	0.62		0.85
WestTrib	357.5013	10-yr		824.96	35.04	6595.39	6598.32	6597.76	6598.65	0.010383	4.72	199.64	130.54	0.66		0.99
WestTrib	357.5013	25-yr		1369.69	130.31	6595.39	6599.08	6598.43	6599.53	0.010394	5.58	319.27	187.48	0.72		1.1
WestTrib	357.5013	50-yr	0.02	1748.62	251.36	6595.39	6599.56	6598.9	6600.05	0.010383	5.94	415.91	213.3	0.71		1.26
WestTrib	357.5013	100-yr	0.79	2116.23	382.98	6595.39	6599.9	6599.21	6600.46	0.010381	6.4	490.36	220.93	0.71		1.43

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	47262 Culvert #1	2-yr	7404.34	7404.34	7403.73	7404.34	7408.01	9		3.17	5.09	6.13
WestTrib	47262 Culvert #1	5-yr	7408.11	7408.11	7408.04	7408.11	7408.01	14.27	6.91	6.72	8.07	8.36
WestTrib	47262 Culvert #1	10-yr	7408.19	7408.19	7408.17	7408.19	7408.01	14.37	18.05	6.68	8.13	8.41
WestTrib	47262 Culvert #1	25-yr	7408.33	7408.33	7408.35	7408.33	7408.01	14.54	44.05	6.55	8.23	8.49
WestTrib	47262 Culvert #1	50-yr	7408.4	7408.4	7408.38	7408.4	7408.01	14.61	59.15	6.5	8.27	8.52
WestTrib	47262 Culvert #1	100-yr	7408.45	7408.45	7408.45	7408.45	7408.01	14.68	74.82	6.46	8.31	8.56
WestTrib	45766.17 Culvert #1	2-yr	7362.13	7362.13	7362.1	7362.13	7362.01	3.48	11.52	7.64	4.98	5.27
WestTrib	45766.17 Culvert #1	5-yr	7362.25	7362.25	7362.24	7362.25	7362.01	3.51	33.01	7.4	5.03	5.23
WestTrib	45766.17 Culvert #1	10-yr	7362.33	7362.33	7362.32	7362.33	7362.01	3.54	52.64	7.09	5.06	5.27
WestTrib	45766.17 Culvert #1	25-yr	7362.52	7362.51	7362.51	7362.52	7362.01	3.6	105.85	6.81	5.15	5.35
WestTrib	45766.17 Culvert #1	50-yr	7362.6	7362.6	7362.6	7362.6	7362.01	3.62	136.03	6.73	5.18	5.39
WestTrib	45766.17 Culvert #1	100-yr	7362.68	7362.68	7362.68	7362.68	7362.01	3.65	165.78	6.64	5.22	5.43
WestTrib	41441.59 Culvert #1	2-yr	7262.38	7262.38	7262.38	7262.38	7262.01	2.51	40.01	4.11	6.39	6.39
WestTrib	41441.59 Culvert #1	5-yr	7262.71	7262.7	7262.71	7262.71	7262.01	2.49	106.99	3.97	6.34	6.34
WestTrib	41441.59 Culvert #1	10-yr	7262.94	7262.91	7262.94	7262.94	7262.01	2.49	167.29	3.96	6.34	6.34
WestTrib	41441.59 Culvert #1	25-yr	7263.37	7263.29	7263.36	7263.37	7262.01	2.49	307.48	3.9	6.33	6.33
WestTrib	41441.59 Culvert #1	50-yr	7263.57	7263.47	7263.57	7263.57	7262.01	2.49	387.46	3.87	6.33	6.33
WestTrib	41441.59 Culvert #1	100-yr	7263.79	7263.64	7263.78	7263.79	7262.01	2.49	478.2	3.85	6.35	6.35
WestTrib	21948.92 Culvert #1	2-yr	6887.62	6887.52	6887.46	6887.62	6896.01	85		2.57	5.25	6.54
WestTrib	21948.92 Culvert #1	5-yr	6888.83	6888.75	6888.58	6888.83	6896.01	210		3.28	7.1	9.19
WestTrib	21948.92 Culvert #1	10-yr	6890.19	6890.11	6889.86	6890.19	6896.01	390		4.11	8.72	11.59
WestTrib	21948.92 Culvert #1	25-yr	6892.55	6892.47	6892.12	6892.55	6896.01	780		5.37	10.99	14.32
WestTrib	21948.92 Culvert #1	50-yr	6893.44	6893.37	6892.99	6893.44	6896.01	950		5.89	11.74	15.2
WestTrib	21948.92 Culvert #1	100-yr	6894.19	6894.11	6893.72	6894.19	6896.01	1100		6.25	12.33	15.86
WestTrib	19961.38 Culvert #1	2-yr	6848.17	6848.09	6848.02	6848.16	6856.01	31.76		1.48	4.68	5.93
WestTrib	19961.38 Culvert #2	2-yr	6848.17	6848.09	6848.04	6848.17	6856.01	32.58		1.48	4.72	7.2
WestTrib	19961.38 Culvert #3	2-yr	6848.17	6848.09	6848.05	6848.18	6856.01	32.79		1.48	4.73	7.33
WestTrib	19961.38 Culvert #4	2-yr	6848.17	6848.09	6848.05	6848.18	6856.01	32.86		1.48	4.73	7.34
WestTrib	19961.38 Culvert #1	5-yr	6848.91	6848.77	6848.72	6848.9	6856.01	66.98		1.81	6	7.82
WestTrib	19961.38 Culvert #2	5-yr	6848.91	6848.77	6848.73	6848.91	6856.01	67.56		1.81	6.01	9.1
WestTrib	19961.38 Culvert #3	5-yr	6848.91	6848.77	6848.73	6848.91	6856.01	67.69		1.81	6.02	9.1
WestTrib	19961.38 Culvert #4	5-yr	6848.91	6848.77	6848.73	6848.91	6856.01	67.77		1.81	6.02	9.11
WestTrib	19961.38 Culvert #1	10-yr	6849.56	6849.38	6849.33	6849.55	6856.01	104.19		2.07	6.95	9.03
WestTrib	19961.38 Culvert #2	10-yr	6849.56	6849.38	6849.35	6849.56	6856.01	105.1		2.07	6.97	10.33
WestTrib	19961.38 Culvert #3	10-yr	6849.56	6849.38	6849.35	6849.57	6856.01	105.28		2.07	6.97	10.34
WestTrib	19961.38 Culvert #4	10-yr	6849.56	6849.38	6849.35	6849.57	6856.01	105.43		2.07	6.98	10.34
WestTrib	19961.38 Culvert #1	25-yr	6850.97	6850.7	6850.67	6850.95	6856.01	200.98		2.69	8.65	11.07

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Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	19961.38 Culvert #2	25-yr	6850.97	6850.7	6850.69	6850.97	6856.01	202.7		2.69	8.67	12.31
WestTrib	19961.38 Culvert #3	25-yr	6850.97	6850.7	6850.7	6850.98	6856.01	203.08		2.69	8.68	12.32
WestTrib	19961.38 Culvert #4	25-yr	6850.97	6850.7	6850.7	6850.98	6856.01	203.24		2.69	8.68	12.32
WestTrib	19961.38 Culvert #1	50-yr	6851.87	6851.54	6851.55	6851.86	6856.01	274.28		3.07	9.59	12.12
WestTrib	19961.38 Culvert #2	50-yr	6851.87	6851.54	6851.56	6851.87	6856.01	275.08		3.07	9.6	13.31
WestTrib	19961.38 Culvert #3	50-yr	6851.87	6851.54	6851.56	6851.87	6856.01	275.26		3.07	9.61	13.31
WestTrib	19961.38 Culvert #4	50-yr	6851.87	6851.54	6851.56	6851.87	6856.01	275.38		3.07	9.61	13.31
WestTrib	19961.38 Culvert #1	100-yr	6852.72	6852.33	6852.38	6852.71	6856.01	349.11		3.42	10.4	12.96
WestTrib	19961.38 Culvert #2	100-yr	6852.72	6852.33	6852.39	6852.72	6856.01	350.16		3.42	10.41	14.14
WestTrib	19961.38 Culvert #3	100-yr	6852.72	6852.33	6852.39	6852.72	6856.01	350.4		3.42	10.41	14.14
WestTrib	19961.38 Culvert #4	100-yr	6852.72	6852.33	6852.39	6852.72	6856.01	350.33		3.42	10.41	14.14
WestTrib	18654 Culv Grp #1	2-yr	6838.33	6838.33	6838.59	6838.33	6840.01	34.83		12.43	9.86	9.86
WestTrib	18654 Culv Grp #2	2-yr	6838.28	6838.28	6838.28	6838.28	6838.01	23.47	70.55	12.88	13.28	13.28
WestTrib	18654 Culv Grp #1	5-yr	6838.57	6838.57	6838.74	6838.57	6840.01	35.69		12.29	10.1	10.1
WestTrib	18654 Culv Grp #2	5-yr	6838.57	6838.57	6838.57	6838.57	6838.01	23.35	215.46	12.43	13.22	13.22
WestTrib	18654 Culv Grp #1	10-yr	6838.76	6838.76	6838.87	6838.76	6840.01	36.39		11.94	10.29	10.29
WestTrib	18654 Culv Grp #2	10-yr	6838.78	6838.78	6838.79	6838.78	6838.01	23.68	363.04	12.77	13.4	13.4
WestTrib	18654 Culv Grp #1	25-yr	6839.25	6839.25	6839.18	6839.25	6840.01	38.02		10.13	10.76	10.76
WestTrib	18654 Culv Grp #2	25-yr	6839.22	6839.21	6839.21	6839.22	6838.01	21.1	755.21	10.14	11.94	11.94
WestTrib	18654 Culv Grp #1	50-yr	6839.45	6839.45	6839.31	6839.45	6840.01	38.7		7.09	10.95	10.95
WestTrib	18654 Culv Grp #2	50-yr	6839.45	6839.44	6839.44	6839.45	6838.01	17.71	1001.4	7.14	10.02	10.02
WestTrib	18654 Culv Grp #1	100-yr	6839.77	6839.77	6839.51	6839.77	6840.01	39.69		6.28	11.23	11.23
WestTrib	18654 Culv Grp #2	100-yr	6839.77	6839.75	6839.73	6839.77	6838.01	16.7	1341.6	6.34	9.45	9.45
WestTrib	17884 Culvert #2	2-yr	6825.68	6825.68	6826.68	6825.7	6825.68	14.37	797.1	2.51	9.15	9.15
WestTrib	17884 Culvert #1	2-yr	6825.68	6825.68	6826.6	6825.68	6825.68	64.11	797.1	2.51	10.2	10.2
WestTrib	17884 Culvert #2	5-yr	6825.68	6825.68	6824.98	6825.67	6825.68	10.05	796.9	1.02	6.4	6.4
WestTrib	17884 Culvert #1	5-yr	6825.68	6825.68	6824.18	6825.68	6825.68	41.39	796.9	1.02	6.59	6.59
WestTrib	17884 Culvert #2	10-yr	6825.87	6825.85	6823.3	6825.86	6825.68	2.15	372.88	0.04	1.37	1.37
WestTrib	17884 Culvert #1	10-yr	6825.87	6825.85	6822.22	6825.87	6825.68	9.97	372.88	0.04	1.59	1.59
WestTrib	17884 Culvert #2	25-yr	6829.12	6829.1	6822.8	6829.12	6825.68	0.1	772.68	0.02	0.06	0.06
WestTrib	17884 Culvert #1	25-yr	6829.12	6829.1	6821.28	6829.12	6825.68	0.26	772.68	0.02	0.04	0.04
WestTrib	17884 Culvert #2	50-yr	6832.33	6832.31	6823.37	6832.33	6825.68	2.54	999.83	0.05	1.62	1.62
WestTrib	17884 Culvert #1	50-yr	6832.33	6832.31	6822.26	6832.33	6825.68	10.63	999.83	0.05	1.69	1.69
WestTrib	17884 Culvert #2	100-yr	6833.45	6833.42	6823.32	6833.45	6825.68	2.26	1329.1	0.03	1.44	1.44
WestTrib	17884 Culvert #1	100-yr	6833.45	6833.42	6822.18	6833.45	6825.68	9.4	1329.1	0.03	1.5	1.5
WestTrib	17840 Culvert #2	2-yr	6823.19	6823.17	6822.98	6823.2	6832.42	18.79		1.84	5.45	5.99
WestTrib	17840 Culvert #1	2-yr	6823.19	6823.17	6822.96	6823.19	6832.42	64.21		1.84	5.41	6.07
WestTrib	17840 Culvert #2	5-yr	6824.69	6824.65	6824.41	6824.69	6832.42	51.68		2.88	7.47	7.84

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Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	17840 Culvert #1	5-yr	6824.69	6824.65	6824.35	6824.69	6832.42	183.32		2.88	7.35	8.17
WestTrib	17840 Culvert #2	10-yr	6825.84	6825.78	6825.69	6825.86	6832.42	83.88		3.54	8.7	9.01
WestTrib	17840 Culvert #1	10-yr	6825.84	6825.78	6825.49	6825.83	6832.42	301.12		3.54	8.68	9.25
WestTrib	17840 Culvert #2	25-yr	6829.11	6829.04	6829.13	6828.72	6832.42	144.04		5.85	11.46	12.84
WestTrib	17840 Culvert #1	25-yr	6829.11	6829.04	6829.1	6828.71	6832.42	628.96		5.85	10.68	13.1
WestTrib	17840 Culvert #2	50-yr	6832.28	6832.22	6833.28	6832.28	6832.42	192.91		8.67	15.35	15.35
WestTrib	17840 Culvert #1	50-yr	6832.28	6832.22	6832.28	6831.3	6832.42	820.09		8.67	13.92	17.04
WestTrib	17840 Culvert #2	100-yr	6833.42	6833.38	6834.69	6833.42	6832.42	206.96	192.95	9.5	16.47	16.47
WestTrib	17840 Culvert #1	100-yr	6833.42	6833.38	6834.85	6833.42	6832.42	947.09	192.95	9.5	16.08	16.08
WestTrib	17517.42 Culvert #1	2-yr	6817.36	6817.36	6816.18	6817.36	6824.01	83		0.02	1.15	1.15
WestTrib	17517.42 Culvert #1	5-yr	6818.17	6818.14	6816.87	6818.17	6824.01	200		0.07	2.02	2.03
WestTrib	17517.42 Culvert #1	10-yr	6818.99	6818.92	6817.72	6818.99	6824.01	380		0.16	3.06	3.08
WestTrib	17517.42 Culvert #1	25-yr	6820.31	6820.16	6819.2	6820.31	6824.01	770		0.39	4.78	4.82
WestTrib	17517.42 Culvert #1	50-yr	6820.8	6820.61	6819.77	6820.8	6824.01	940		0.5	5.41	5.46
WestTrib	17517.42 Culvert #1	100-yr	6821.23	6821.01	6820.28	6821.23	6824.01	1100		0.61	5.96	6.03
WestTrib	15318.93 Culvert #1	2-yr	6784.47	6784.38	6784.27	6784.47	6788.18	86		0.81	4.22	5.29
WestTrib	15318.93 Culvert #1	5-yr	6785.88	6785.73	6785.57	6785.88	6788.18	210		1.55	5.96	7.53
WestTrib	15318.93 Culvert #1	10-yr	6787.59	6787.39	6787.13	6787.59	6788.18	390		2.67	7.64	9.51
WestTrib	15318.93 Culvert #1	25-yr	6788.64	6788.53	6788.54	6788.64	6788.18	507.52	282.49	3.06	8.57	10.58
WestTrib	15318.93 Culvert #1	50-yr	6788.85	6788.72	6788.75	6788.85	6788.18	531.28	438.72	2.88	8.75	10.54
WestTrib	15318.93 Culvert #1	100-yr	6788.96	6788.81	6788.89	6788.96	6788.18	542.03	557.97	2.72	8.78	10.08
WestTrib	14944.59Culv Grp #1	2-yr	6778.29	6778.29	6778.04	6778.29	6780.01	5.36		1.95	2.57	4.44
WestTrib	14944.59Culv Grp #2	2-yr	6778.3	6778.3	6778.29	6778.3	6778.01	9.21	72.24	2.14	5.21	5.21
WestTrib	14944.59Culv Grp #1	5-yr	6778.56	6778.56	6777.96	6778.56	6780.01	4.79		0.16	1.74	1.81
WestTrib	14944.59Culv Grp #2	5-yr	6778.55	6778.55	6778.54	6778.55	6778.01	2.67	202.55	1.1	1.51	1.51
WestTrib	14944.59Culv Grp #1	10-yr	6778.85	6778.84	6778.57	6778.85	6780.01	9.37		0.84	3.3	4.87
WestTrib	14944.59Culv Grp #2	10-yr	6778.8	6778.79	6778.79	6778.8	6778.01	5.89	377.89	0.79	3.33	3.33
WestTrib	14944.59Culv Grp #1	25-yr	6779.17	6779.17	6778.87	6779.17	6780.01	11.69		1.13	3.77	5.78
WestTrib	14944.59Culv Grp #2	25-yr	6779.18	6779.17	6779.17	6779.18	6778.01	7.18	769.45	1.17	4.06	4.06
WestTrib	14944.59Culv Grp #1	50-yr	6779.31	6779.3	6778.96	6779.31	6780.01	12.41		1.24	3.95	5.92
WestTrib	14944.59Culv Grp #2	50-yr	6779.32	6779.32	6779.32	6779.32	6778.01	7.61	955.13	1.31	4.31	4.31
WestTrib	14944.59Culv Grp #1	100-yr	6779.37	6779.37	6779	6779.37	6780.01	12.77		1.29	4.06	5.99
WestTrib	14944.59Culv Grp #2	100-yr	6779.41	6779.4	6779.41	6779.41	6778.01	7.86	1080.1	1.4	4.45	4.45
WestTrib	9806.61 Culvert #1	2-yr	6713.22	6713.22	6713.22	6713.24	6713.01	106.84	53.16	4.38	8.5	10.14
WestTrib	9806.61 Culvert #1	5-yr	6713.65	6713.63	6713.59	6713.65	6713.01	97.56	312.44	3.24	7.76	7.76
WestTrib	9806.61 Culvert #1	10-yr	6713.83	6713.8	6713.84	6713.83	6713.01	110.36	518.63	3.21	8.78	8.78
WestTrib	9806.61 Culvert #1	25-yr	6714.24	6714.14	6714.23	6714.24	6713.01	91.99	1008	2.15	7.32	7.32

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Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
WestTrib	9806.61 Culvert #1	50-yr	6714.46	6714.32	6714.43	6714.46	6713.01	85.68	1316.1	2	6.82	6.82
WestTrib	9806.61 Culvert #1	100-yr	6714.64	6714.46	6714.61	6714.64	6713.01	79.06	1620.9	1.81	6.29	6.29
WestTrib	8435.27 Culvert #1	2-yr	6687.83	6687.75	6687.73	6687.83	6695.9	160		1.16	5.24	2.97
WestTrib	8435.27 Culvert #1	5-yr	6689.21	6689.08	6688.95	6689.21	6695.9	410		1.35	7.19	4.39
WestTrib	8435.27 Culvert #1	10-yr	6690.23	6690.07	6689.84	6690.23	6695.9	630		1.63	8.4	5.42
WestTrib	8435.27 Culvert #1	25-yr	6692.1	6691.9	6691.52	6692.1	6695.9	1100		2.31	10.25	7.27
WestTrib	8435.27 Culvert #1	50-yr	6693.2	6692.98	6692.51	6693.2	6695.9	1400		2.79	11.27	8.35
WestTrib	8435.27 Culvert #1	100-yr	6694.28	6694.04	6693.46	6694.28	6695.9	1700		3.31	12.21	9.4
WestTrib	5398.42 Culvert #1	2-yr	6660.27	6660.27	6660.21	6660.27	6660.01	115.92	94.08	2.23	8.69	9.08
WestTrib	5398.42 Culvert #1	5-yr	6660.6	6660.59	6660.55	6660.6	6660.01	104.03	425.97	1.57	7.36	7.36
WestTrib	5398.42 Culvert #1	10-yr	6660.78	6660.73	6660.76	6660.78	6660.01	97.52	722.48	1.35	6.9	6.9
WestTrib	5398.42 Culvert #1	25-yr	6661.12	6661.03	6661.09	6661.12	6660.01	88.83	1311.2	1.07	6.28	6.28
WestTrib	5398.42 Culvert #1	50-yr	6661.41	6661.26	6661.34	6661.41	6660.01	86.42	1913.6	0.95	6.11	6.11
WestTrib	5398.42 Culvert #1	100-yr	6661.57	6661.39	6661.54	6661.57	6660.01	81.98	2323.5	0.81	5.8	5.8

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
WestTrib	17683.8*	2-yr	6819	6818.95		0.24	0	43.41		83		1.7
WestTrib	17683.8*	5-yr	6819.85	6819.78		0.26	0	56.7		200		2.2
WestTrib	17683.8*	10-yr	6820.78	6820.67		0.25	0	61.55		380		2.64
WestTrib	17683.8*	25-yr	6822.27	6822.1		0.24	0.01	69.29		770		3.24
WestTrib	17683.8*	50-yr	6822.79	6822.61		0.24	0.01	74.1		940		3.43
WestTrib	17683.8*	100-yr	6823.23	6823.03		0.24	0.01	75.88		1100		3.6
WestTrib	17658.61	2-yr	6818.75	6818.71	6817.81			42.19		83		1.69
WestTrib	17658.61	5-yr	6819.59	6819.51	6818.4			46.91		200		2.35
WestTrib	17658.61	10-yr	6820.53	6820.4	6818.92			51.14		380		2.95
WestTrib	17658.61	25-yr	6822.02	6821.81	6819.73			57.82		770		3.75
WestTrib	17658.61	50-yr	6822.54	6822.29	6820.06			62.59		940		4
WestTrib	17658.61	100-yr	6822.98	6822.71	6820.31			64.22		1100		4.22
WestTrib	17647.61BR U	2-yr	6818.71	6818.63	6817.92			33.76		83		2.25
WestTrib	17647.61BR U	5-yr	6819.54	6819.39	6818.56			38.87		200		3.08
WestTrib	17647.61BR U	10-yr	6820.09	6819.72	6819.15			40.42		380		4.88
WestTrib	17647.61BR U	25-yr	6821.33	6820.69	6820.07			44.52		770		6.46
WestTrib	17647.61BR U	50-yr	6821.82	6821.1	6820.42			45.53		940		6.81
WestTrib	17647.61BR U	100-yr	6822.26	6821.48	6820.7			46.13		1100		7.09
WestTrib	17647.61BR D	2-yr	6818.69	6818.47	6818.17			22.5		83		3.7
WestTrib	17647.61BR D	5-yr	6819.55	6819.13	6818.85			26.11		200		5.18
WestTrib	17647.61BR D	10-yr	6820.51	6819.86	6819.57			29.6		380		6.44
WestTrib	17647.61BR D	25-yr	6821.96	6820.7	6820.7			33.19		770		9.01
WestTrib	17647.61BR D	50-yr	6822.5	6821.1	6821.1			34.88		940		9.49
WestTrib	17647.61BR D	100-yr	6822.96	6821.48	6821.46			36.46		1100		9.79
WestTrib	17638.04	2-yr	6818.46	6818.23	6817.99	0.71	0.03	24.24		83		3.81
WestTrib	17638.04	5-yr	6819.28	6818.9	6818.66	0.64	0.07	32.26		200		4.89
WestTrib	17638.04	10-yr	6820.13	6819.57	6819.28	0.57	0.11	35.72		380		5.97
WestTrib	17638.04	25-yr	6821.5	6820.69	6820.28	0.51	0.16	40.62		770		7.25
WestTrib	17638.04	50-yr	6822	6821.1	6820.64	0.49	0.18	42.38		940		7.61
WestTrib	17638.04	100-yr	6822.44	6821.48	6820.92	0.48	0.19	43.96		1100		7.88
WestTrib	17616.3*	2-yr	6817.72	6817.55		0.25	0.04	27.95		83		3.31
WestTrib	17616.3*	5-yr	6818.57	6818.33		0.23	0.04	37.99		200		3.89
WestTrib	17616.3*	10-yr	6819.44	6819.11		0.24	0.05	41.82		380		4.61
WestTrib	17616.3*	25-yr	6820.83	6820.33		0.24	0.07	47.02		770		5.63
WestTrib	17616.3*	50-yr	6821.33	6820.79		0.24	0.07	48.8		940		5.93
WestTrib	17616.3*	100-yr	6821.78	6821.19		0.24	0.08	50.36		1100		6.17

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	15477.33	2-yr			1	7016.62	7016.39	7016.39	7016.41	0.267517		0.78	15.77	1.02	1.08	0.82
UpperTrib	15477.33	5-yr			11	7016.62	7016.54	7016.54	7016.59	0.174974		5.85	49.07	0.96	1.09	1.3
UpperTrib	15477.33	10-yr			25	7016.62	7016.62	7016.62	7016.71	0.168087		10.24	56.38	1.01	1.16	1.91
UpperTrib	15477.33	25-yr	0.22	6.7	55.08	7016.62	7016.79	7016.79	7016.89	0.101653	1.85	24.42	118.41	1.01	1.14	1.31
UpperTrib	15477.33	50-yr	2.66	28.37	88.97	7016.62	7016.91	7016.91	7017.05	0.096262	3.02	40.18	140.32	1	3.02	1.72
UpperTrib	15477.33	100-yr	4.88	44.49	110.63	7016.62	7016.96	7016.96	7017.14	0.095462	3.6	48.53	144.75	1.03	4.27	2
UpperTrib	15411.72	2-yr			1	7006.16	7006.52		7006.52	0.005317	0.71	1.4	7.39	0.29	2.83	0.06
UpperTrib	15411.72	5-yr			11	7006.16	7007.06		7007.08	0.005737	1.25	8.8	21.18	0.34	2.83	0.15
UpperTrib	15411.72	10-yr			25	7006.16	7007.35		7007.39	0.006193	1.53	16.29	30.56	0.37	2.93	0.21
UpperTrib	15411.72	25-yr			62	7006.16	7007.77		7007.83	0.006761	1.9	32.58	47.28	0.4	3.16	0.29
UpperTrib	15411.72	50-yr			120	7006.16	7007.76	7007.63	7007.98	0.026824	3.77	31.83	46.55	0.8	2.99	1.14
UpperTrib	15411.72	100-yr			160	7006.16	7007.88	7007.88	7008.15	0.047111	4.17	38.4	73.83	1.02	2.11	1.53
UpperTrib	15205.81	2-yr			1	7003.24	7003.63	7003.63	7003.7	0.088222	2.12	0.47	3.32	0.99		0.65
UpperTrib	15205.81	5-yr			11	7003.24	7004.06	7004.06	7004.26	0.065598	3.56	3.09	8.8	1.06		1.31
UpperTrib	15205.81	10-yr			25	7003.24	7004.34	7004.34	7004.46	0.060164	2.77	9.04	37.76	1		0.88
UpperTrib	15205.81	25-yr			62	7003.24	7004.56	7004.56	7004.68	0.062154	2.79	22.2	95.03	1.02		0.9
UpperTrib	15205.81	50-yr			120	7003.24	7004.95		7004.99	0.008838	1.67	71.68	153.48	0.43		0.26
UpperTrib	15205.81	100-yr			160	7003.24	7005.19		7005.22	0.00417	1.44	111.31	170.57	0.31		0.17
UpperTrib	15182.0*	2-yr			1	7002.96	7003.45		7003.46	0.012684	1.05	0.96	4.84	0.41	0.3	0.14
UpperTrib	15182.0*	5-yr			11	7002.96	7004.08		7004.11	0.012477	1.2	9.2	41.8	0.45	0.32	0.17
UpperTrib	15182.0*	10-yr			25	7002.96	7004.24		7004.28	0.011691	1.47	16.97	53.86	0.46	0.28	0.23
UpperTrib	15182.0*	25-yr			62	7002.96	7004.54		7004.58	0.011204	1.68	36.87	93.43	0.47	0.24	0.27
UpperTrib	15182.0*	50-yr			120	7002.96	7004.95		7004.98	0.004047	1.38	87.16	139.23	0.31	0.09	0.16
UpperTrib	15182.0*	100-yr			160	7002.96	7005.19		7005.22	0.002637	1.29	123.74	157.6	0.26	0.06	0.13
UpperTrib	15158.2*	2-yr			1	7002.67	7003.15		7003.16	0.012709	1.06	0.95	4.81	0.42	0.31	0.14
UpperTrib	15158.2*	5-yr			11	7002.67	7003.76		7003.79	0.014308	1.33	8.29	35.69	0.49	0.34	0.2
UpperTrib	15158.2*	10-yr			25	7002.67	7003.94		7003.98	0.011888	1.63	15.31	42.1	0.48	0.28	0.27
UpperTrib	15158.2*	25-yr			62	7002.67	7004.28		7004.34	0.009157	1.93	32.1	56.58	0.45	0.19	0.32
UpperTrib	15158.2*	50-yr			120	7002.67	7004.85		7004.88	0.003562	1.42	84.62	117.44	0.29	0.08	0.16
UpperTrib	15158.2*	100-yr			160	7002.67	7005.13		7005.16	0.002422	1.33	120.13	137.3	0.25	0.06	0.13
UpperTrib	15134.4*	2-yr			1	7002.38	7002.84		7002.86	0.01369	1.1	0.91	4.73	0.44	0.28	0.15
UpperTrib	15134.4*	5-yr			11	7002.38	7003.42		7003.45	0.014379	1.52	7.23	25.4	0.5	0.32	0.25
UpperTrib	15134.4*	10-yr			25	7002.38	7003.65		7003.7	0.01191	1.78	14.08	34.22	0.49	0.26	0.3
UpperTrib	15134.4*	25-yr			62	7002.38	7004.1		7004.15	0.006783	1.92	32.28	45.79	0.4	0.15	0.29
UpperTrib	15134.4*	50-yr			120	7002.38	7004.77		7004.8	0.003394	1.52	79.16	95.83	0.29	0.09	0.17
UpperTrib	15134.4*	100-yr			160	7002.38	7005.07		7005.1	0.00246	1.44	111.38	114.93	0.26	0.07	0.15

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	15110.6*	2-yr		1		7002.1	7002.56		7002.57	0.010091	1	1	4.93	0.39	0.34	0.12
UpperTrib	15110.6*	5-yr		11		7002.1	7003.09		7003.13	0.012816	1.69	6.51	17.96	0.49	0.27	0.28
UpperTrib	15110.6*	10-yr		25		7002.1	7003.39		7003.44	0.009763	1.85	13.55	26.77	0.46	0.21	0.3
UpperTrib	15110.6*	25-yr		62		7002.1	7003.95		7004.01	0.005543	1.99	31.13	35.92	0.38	0.14	0.3
UpperTrib	15110.6*	50-yr		120		7002.1	7004.67		7004.71	0.003987	1.76	68.37	74.92	0.32	0.12	0.23
UpperTrib	15110.6*	100-yr		160		7002.1	7004.99		7005.03	0.003	1.67	95.66	91.12	0.29	0.1	0.2
UpperTrib	15086.8*	2-yr		1		7001.81	7002.2		7002.23	0.021924	1.36	0.74	4.15	0.57	0.11	0.23
UpperTrib	15086.8*	5-yr		11		7001.81	7002.82		7002.86	0.010115	1.69	6.52	15.08	0.45	0.29	0.27
UpperTrib	15086.8*	10-yr		25		7001.81	7003.17		7003.23	0.00795	1.97	12.66	19.32	0.43	0.3	0.32
UpperTrib	15086.8*	25-yr		62		7001.81	7003.78		7003.87	0.006193	2.35	26.39	25.7	0.41	0.28	0.39
UpperTrib	15086.8*	50-yr		120		7001.81	7004.51		7004.59	0.006139	2.36	50.77	48.98	0.41	0.35	0.39
UpperTrib	15086.8*	100-yr		160		7001.81	7004.86		7004.94	0.005208	2.25	71.17	65.61	0.38	0.32	0.35
UpperTrib	15063.05	2-yr		1		7001.53	7002.11		7002.12	0.001846	0.55	1.81	6.21	0.18	0	0.03
UpperTrib	15063.05	5-yr		11		7001.53	7002.5		7002.57	0.014252	2.26	4.87	9.35	0.55	0.03	0.45
UpperTrib	15063.05	10-yr		25		7001.53	7002.77		7002.93	0.02061	3.29	7.6	10.87	0.69	0.07	0.87
UpperTrib	15063.05	25-yr		62		7001.53	7003.29		7003.59	0.022678	4.42	14.04	13.79	0.77	0.14	1.39
UpperTrib	15063.05	50-yr		120		7001.53	7003.62	7003.62	7004.24	0.036972	6.32	18.98	15.66	1.01	0.26	2.69
UpperTrib	15063.05	100-yr		160		7001.53	7003.92	7003.92	7004.62	0.03506	6.7	23.87	17.32	1.01	0.3	2.89
UpperTrib	14907.55	2-yr		9		6999.46	7002.11	7000.13	7002.11	0.000005	0.09	100.55	65.93	0.01	0.01	0
UpperTrib	14907.55	5-yr		32		6999.46	7002.54	7000.35	7002.54	0.000033	0.25	130.13	74.04	0.03	0.04	0
UpperTrib	14907.55	10-yr		58		6999.46	7002.86	7000.45	7002.86	0.000069	0.37	155.13	83	0.05	0.06	0.01
UpperTrib	14907.55	25-yr		124		6999.46	7003.45	7000.75	7003.45	0.000149	0.59	208.46	98.78	0.07	0.11	0.02
UpperTrib	14907.55	50-yr	0	190		6999.46	7003.88	7000.99	7003.89	0.000211	0.75	254.37	112.36	0.09	0.15	0.03
UpperTrib	14907.55	100-yr	0.14	258.86		6999.46	7004.21	7001.2	7004.23	0.000254	0.89	293.2	118.83	0.1	0.17	0.04
UpperTrib	14773.98	2-yr		9		7001.63	7001.99	7001.99	7002.1	0.05861	2.67	3.37	14.86	0.99		0.83
UpperTrib	14773.98	5-yr		32		7001.63	7002.29	7002.29	7002.5	0.048724	3.71	8.61	20.12	1	4.44	1.3
UpperTrib	14773.98	10-yr		57.95	0.05	7001.63	7002.53	7002.5	7002.8	0.039487	4.2	13.88	24.53	0.98	8.41	1.39
UpperTrib	14773.98	25-yr		121.41	2.59	7001.63	7002.91	7002.91	7003.34	0.034949	5.29	24.85	32.26	1.05	7.37	1.67
UpperTrib	14773.98	50-yr		181.37	8.63	7001.63	7003.23	7003.23	7003.74	0.031246	5.88	36.4	42.76	1.1	7	1.65
UpperTrib	14773.98	100-yr		237.52	21.48	7001.63	7003.5	7003.5	7004.06	0.027907	6.21	49.57	50.8	1.07	6.54	1.69
UpperTrib	14507.55	2-yr		9		6993.79	6993.94	6993.94	6994	0.077225	1.98	4.55	38.88	1.02		0.56
UpperTrib	14507.55	5-yr	0.58	30.95	0.48	6993.79	6994.28		6994.31	0.008179	1.49	23.39	73.52	0.46	6.97	0.16
UpperTrib	14507.55	10-yr	1.1	56	0.9	6993.79	6994.29	6994.22	6994.39	0.025558	2.67	23.82	73.99	0.81	6.85	0.51
UpperTrib	14507.55	25-yr	6.58	111.7	5.73	6993.79	6994.53	6994.44	6994.69	0.021983	3.36	44.38	93.78	0.82	6.91	0.65
UpperTrib	14507.55	50-yr	13.8	163.11	13.09	6993.79	6994.7	6994.61	6994.91	0.021879	3.9	61.58	106.85	0.85	6.95	0.79
UpperTrib	14507.55	100-yr	22.84	212.92	23.24	6993.79	6994.86	6994.75	6995.1	0.021167	4.3	78.81	115.76	0.84	7	0.9

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	14107.55	2-yr		9		6986.95	6987.12	6987.12	6987.17	0.078319	1.8	5	49.54	1		0.49
UpperTrib	14107.55	5-yr		32		6986.95	6987.25	6987.25	6987.34	0.059615	2.37	13.48	72.05	0.97		0.7
UpperTrib	14107.55	10-yr		58		6986.95	6987.5	6987.35	6987.55	0.01222	1.67	34.73	95.8	0.49	8.72	0.28
UpperTrib	14107.55	25-yr		123.54	0.46	6986.95	6987.7	6987.52	6987.78	0.013849	2.26	55.73	120.31	0.58	8.63	0.41
UpperTrib	14107.55	50-yr	0.02	187.6	2.38	6986.95	6987.85	6987.64	6987.96	0.014026	2.66	73.81	140.05	0.61	8.59	0.51
UpperTrib	14107.55	100-yr	0.18	251.63	7.19	6986.95	6987.96	6987.75	6988.1	0.014588	3.03	92.43	153.37	0.68	8.56	0.55
UpperTrib	13707.55	2-yr		9		6977.87	6978.23	6978.23	6978.33	0.068658	2.51	3.58	19.53	1.03	0.03	0.79
UpperTrib	13707.55	5-yr		32		6977.87	6978.49	6978.49	6978.63	0.054082	3.1	10.33	34.37	1	0.05	1.01
UpperTrib	13707.55	10-yr	0.15	57.85		6977.87	6978.65	6978.65	6978.83	0.049181	3.48	16.98	54.67	1.1	0.07	0.95
UpperTrib	13707.55	25-yr	9.03	114.97		6977.87	6978.9	6978.9	6979.14	0.037995	4.05	35.57	83.48	1.06	0.12	1.01
UpperTrib	13707.55	50-yr	22	167.96	0.04	6977.87	6979.06	6979.06	6979.36	0.03674	4.61	50.05	95.61	1.06	0.18	1.2
UpperTrib	13707.55	100-yr	38.17	220.38	0.45	6977.87	6979.21	6979.21	6979.55	0.034144	5.03	65.05	108.34	1.07	0.23	1.28
UpperTrib	13306.32	2-yr		9	0	6968.22	6971.63		6971.63	0.000001	0.04	230.37	91.88	0	0.01	0
UpperTrib	13306.32	5-yr		32	0	6968.22	6971.94		6971.94	0.000004	0.12	259.76	95.3	0.01	0.02	0
UpperTrib	13306.32	10-yr	0	57.98	0.02	6968.22	6972.15		6972.15	0.000012	0.21	280.22	100.77	0.02	0.03	0
UpperTrib	13306.32	25-yr	0.24	123.61	0.15	6968.22	6972.59		6972.59	0.000033	0.39	327.56	116.23	0.04	0.04	0.01
UpperTrib	13306.32	50-yr	0.81	188.84	0.35	6968.22	6972.81		6972.82	0.000063	0.55	354.46	120.71	0.06	0.08	0.01
UpperTrib	13306.32	100-yr	2.1	256.17	0.73	6968.22	6973.11		6973.12	0.000089	0.69	390.85	126.45	0.07	0.08	0.02
UpperTrib	13111.17	2-yr		9		6971.24	6971.53	6971.53	6971.62	0.064466	2.4	3.75	20.87	1	4.79	0.72
UpperTrib	13111.17	5-yr		32		6971.24	6971.77	6971.77	6971.92	0.055757	3.17	10.1	33.3	1.01	5.06	1.06
UpperTrib	13111.17	10-yr		58		6971.24	6971.93	6971.93	6972.13	0.050399	3.52	16.49	43.04	1	5.07	1.2
UpperTrib	13111.17	25-yr	2.25	121.65	0.11	6971.24	6972.41	6972.19	6972.55	0.014426	3.02	43.51	70.55	0.67	5.51	0.56
UpperTrib	13111.17	50-yr	3.1	186.78	0.12	6971.24	6972.39	6972.39	6972.74	0.037244	4.77	42.04	69.27	1.07	4.85	1.41
UpperTrib	13111.17	100-yr	14.67	241.87	2.46	6971.24	6972.8	6972.56	6973.03	0.015039	4.03	75.82	104.03	0.81	5.71	0.68
UpperTrib	12893	2-yr		9		6966.28	6966.55	6966.45	6966.57	0.010844	0.98	9.2	51.69	0.41	9.3	0.12
UpperTrib	12893	5-yr		32		6966.28	6966.79	6966.61	6966.81	0.012466	1.23	25.93	114.27	0.46	9.4	0.18
UpperTrib	12893	10-yr		58		6966.28	6966.89	6966.73	6966.93	0.013094	1.48	39.12	135.86	0.49	9.41	0.24
UpperTrib	12893	25-yr		124		6966.28	6966.9	6966.9	6967.05	0.054732	3.08	40.25	136.42	1	8.28	1.01
UpperTrib	12893	50-yr	0.16	189.66	0.18	6966.28	6967.24	6967	6967.29	0.014279	1.81	105.68	308	0.54	9.47	0.31
UpperTrib	12893	100-yr		258.95	0.05	6966.28	6967.16	6967.16	6967.32	0.055624	3.21	80.75	262.48	1.02	8.07	1.07
UpperTrib	12511.32	2-yr		9		6957.11	6957.23	6957.23	6957.27	0.096966	1.7	5.3	67.55	1.07		0.48
UpperTrib	12511.32	5-yr		32		6957.11	6957.34	6957.34	6957.42	0.069629	2.21	14.51	97.24	1.01		0.65
UpperTrib	12511.32	10-yr		58		6957.11	6957.42	6957.42	6957.52	0.062458	2.48	23.38	121.06	1		0.75
UpperTrib	12511.32	25-yr	0	123.99	0	6957.11	6957.74		6957.79	0.011486	1.72	72.23	187.19	0.49	8.55	0.28
UpperTrib	12511.32	50-yr		190		6957.11	6957.65	6957.65	6957.83	0.053228	3.33	57.12	169.01	1.01		1.12
UpperTrib	12511.32	100-yr	0.56	255.58	2.86	6957.11	6957.96		6958.04	0.011007	2.27	120	241.67	0.56	8.57	0.34

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	12037.33	2-yr		9		6948.69	6948.81	6948.81	6948.84	0.10121	1.53	5.89	90.77	1.06	9.1	0.41
UpperTrib	12037.33	5-yr		32		6948.69	6948.89	6948.89	6948.96	0.07831	2.14	14.94	114.31	1.04	9.28	0.64
UpperTrib	12037.33	10-yr		58		6948.69	6948.98	6948.96	6949.06	0.049573	2.22	26.1	134.08	0.89	10.86	0.6
UpperTrib	12037.33	25-yr		123.91	0.09	6948.69	6949.14	6949.09	6949.24	0.032336	2.49	50.19	172.16	0.81	10.63	0.59
UpperTrib	12037.33	50-yr	0	188.33	1.66	6948.69	6949.23	6949.19	6949.36	0.034052	2.97	66.38	201.85	0.91	10.45	0.7
UpperTrib	12037.33	100-yr	0.1	253.34	5.56	6948.69	6949.3	6949.28	6949.47	0.034954	3.37	81.47	207.09	0.94	10.29	0.86
UpperTrib	11628.61	2-yr		9		6936.98	6937.59		6937.62	0.009489	1.31	6.87	22.5	0.42	8.13	0.18
UpperTrib	11628.61	5-yr		32	0	6936.98	6937.94		6938	0.010631	2.01	15.95	30.35	0.49	8.2	0.35
UpperTrib	11628.61	10-yr		57.77	0.23	6936.98	6938.09		6938.21	0.016509	2.78	21.21	37.74	0.65	8.18	0.58
UpperTrib	11628.61	25-yr		119.56	4.44	6936.98	6938.37	6938.24	6938.6	0.021332	3.97	34.39	51.92	0.84	8.18	0.88
UpperTrib	11628.61	50-yr	0.14	176.13	13.73	6936.98	6938.62	6938.48	6938.92	0.019853	4.52	48.56	59.82	0.86	8.23	1
UpperTrib	11628.61	100-yr	1.28	232.04	25.69	6936.98	6938.85	6938.68	6939.2	0.018922	4.98	62.81	67.96	0.87	8.28	1.09
UpperTrib	11228.61	2-yr		9		6928.82	6929.4	6929.4	6929.49	0.07031	2.47	3.65	20.47	1.03	2.23	0.77
UpperTrib	11228.61	5-yr		32		6928.82	6929.63	6929.63	6929.79	0.054686	3.21	9.98	31.33	1	8.17	1.07
UpperTrib	11228.61	10-yr		57.71	0.29	6928.82	6929.9		6930.04	0.025955	2.97	19.87	43.3	0.77	9.63	0.73
UpperTrib	11228.61	25-yr	1.16	119.48	3.36	6928.82	6930.25	6930.09	6930.43	0.019529	3.5	38.86	66.27	0.79	9.65	0.71
UpperTrib	11228.61	50-yr	4.88	177.43	7.69	6928.82	6930.44	6930.31	6930.69	0.021271	4.17	52.72	78.92	0.87	9.62	0.88
UpperTrib	11228.61	100-yr	11.05	234.62	13.32	6928.82	6930.6	6930.5	6930.92	0.022692	4.73	66.22	89.6	0.93	9.61	1.03
UpperTrib	10828.61	2-yr		9		6919.04	6920.01		6920.02	0.001867	0.77	11.63	24.77	0.2	0.01	0.05
UpperTrib	10828.61	5-yr		32		6919.04	6920.17		6920.23	0.010526	2	15.98	29.93	0.48	0.07	0.35
UpperTrib	10828.61	10-yr		58		6919.04	6920.28		6920.42	0.022377	2.94	19.75	36.68	0.71	0.16	0.75
UpperTrib	10828.61	25-yr	0.2	123.8		6919.04	6920.55	6920.47	6920.79	0.030492	3.92	31.92	52.84	0.89	0.36	1.15
UpperTrib	10828.61	50-yr	2.53	187.47		6919.04	6920.79	6920.7	6921.08	0.027411	4.3	46.09	66.27	0.9	0.48	1.19
UpperTrib	10828.61	100-yr	7.63	251.37		6919.04	6921	6920.88	6921.31	0.025486	4.58	60.75	77.77	0.9	0.64	1.24
UpperTrib	10741.93	2-yr	0.91	8.09		6917.93	6920.01	6918.44	6920.01	0.000018	0.13	80.97	103.96	0.03		0
UpperTrib	10741.93	5-yr	3.68	28.29	0.03	6917.93	6920.16	6918.72	6920.16	0.000145	0.41	99.24	137.03	0.08		0.01
UpperTrib	10741.93	10-yr	8.05	49.83	0.12	6917.93	6920.25	6918.9	6920.26	0.000356	0.68	111.94	142.69	0.13		0.02
UpperTrib	10741.93	25-yr	21.68	101.39	0.92	6917.93	6920.41	6919.27	6920.43	0.001008	1.23	137.1	169.4	0.22		0.05
UpperTrib	10741.93	50-yr	38.81	148.76	2.43	6917.93	6920.56	6919.52	6920.59	0.001587	1.64	163.78	197.54	0.29		0.08
UpperTrib	10741.93	100-yr	55.58	199.63	3.79	6917.93	6920.61	6919.78	6920.67	0.002567	2.14	174.73	210.18	0.37		0.13
UpperTrib	10706		Culvert													
UpperTrib	10665.96	2-yr		9		6915.33	6916.11	6915.94	6916.17	0.014573	1.89	4.76	12.36	0.54	6.08	0.35
UpperTrib	10665.96	5-yr		32		6915.33	6916.56	6916.34	6916.67	0.015861	2.69	11.89	19.33	0.6	6.07	0.6
UpperTrib	10665.96	10-yr		58		6915.33	6916.84	6916.61	6917.01	0.016428	3.26	17.8	22.27	0.64	6.04	0.81
UpperTrib	10665.96	25-yr		124		6915.33	6917.34	6917.06	6917.6	0.017235	4.13	30.04	27.28	0.69	6.06	1.17
UpperTrib	10665.96	50-yr		190		6915.33	6917.57	6917.4	6917.99	0.023299	5.18	36.65	29.63	0.82	6.02	1.78

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	10665.96	100-yr		259		6915.33	6917.69	6917.69	6918.33	0.033615	6.44	40.2	30.86	0.99	4.23	2.7
UpperTrib	10428.61	2-yr		9		6909.21	6909.93	6909.93	6910.09	0.055016	3.21	2.81	8.8	1	4.18	1.07
UpperTrib	10428.61	5-yr		32		6909.21	6910.35	6910.35	6910.61	0.046693	4.1	7.81	15.08	1	4.33	1.49
UpperTrib	10428.61	10-yr		58		6909.21	6910.62	6910.62	6910.96	0.043436	4.62	12.56	19.23	1.01	4.75	1.75
UpperTrib	10428.61	25-yr		124		6909.21	6911.08	6911.08	6911.54	0.040386	5.43	22.85	26.04	1.02	5.43	2.18
UpperTrib	10428.61	50-yr		190		6909.21	6911.55	6911.42	6911.96	0.027593	5.15	36.9	34.24	0.87	6.48	1.84
UpperTrib	10428.61	100-yr		259		6909.21	6912.31		6912.54	0.010159	3.83	67.7	46.46	0.56	7.02	0.91
UpperTrib	10028.61	2-yr		9		6904.41	6904.74		6904.74	0.004211	0.7	12.83	58.49	0.26	10.21	0.06
UpperTrib	10028.61	5-yr		31.33	0.67	6904.41	6904.98		6904.99	0.004586	1.05	32.69	116.84	0.35	9.29	0.08
UpperTrib	10028.61	10-yr	0.01	54.2	3.78	6904.41	6905.11		6905.13	0.005306	1.34	49.3	135.72	0.38	8.92	0.12
UpperTrib	10028.61	25-yr	0.9	108.54	14.57	6904.41	6905.31		6905.36	0.00652	1.89	80.32	162.76	0.45	8.27	0.2
UpperTrib	10028.61	50-yr	2.23	162.72	25.05	6904.41	6905.39		6905.48	0.01039	2.55	93.01	172.76	0.57	8.04	0.35
UpperTrib	10028.61	100-yr	1.24	230.03	27.74	6904.41	6905.27	6905.27	6905.52	0.037314	4.3	72.53	156.32	1.06	7.38	1.08
UpperTrib	9628.612	2-yr		61		6891.99	6894.03	6894.03	6894.55	0.041542	5.81	10.49	10.23	1.01	5.19	2.44
UpperTrib	9628.612	5-yr		180		6891.99	6895.13	6895.13	6895.69	0.03807	6.02	29.91	26.75	1	5.37	2.51
UpperTrib	9628.612	10-yr		280		6891.99	6895.57	6895.57	6896.22	0.036032	6.44	43.47	33.84	1	5.42	2.74
UpperTrib	9628.612	25-yr		508.93	1.07	6891.99	6896.27	6896.27	6897.09	0.03102	7.3	71.3	56.1	1.14	5.37	2.37
UpperTrib	9628.612	50-yr	0.14	616.74	13.12	6891.99	6896.6	6896.6	6897.44	0.025495	7.4	92.7	78.66	1.19	5.1	1.83
UpperTrib	9628.612	100-yr	3.71	680.97	75.32	6891.99	6897.1	6897.1	6897.7	0.015141	6.59	165.94	214.67	1.25	4.12	0.72
UpperTrib	9228.612	2-yr		60.74	0.26	6886.72	6888.53	6887.97	6888.6	0.006028	2.2	28.44	37.74	0.45	6.19	0.28
UpperTrib	9228.612	5-yr	0.54	160.6	18.85	6886.72	6889.25	6888.69	6889.39	0.006559	3.14	73.48	90.5	0.58	6.63	0.33
UpperTrib	9228.612	10-yr	5.45	230.67	43.88	6886.72	6889.6	6889.05	6889.77	0.006781	3.67	110.47	124.95	0.63	6.83	0.37
UpperTrib	9228.612	25-yr	36.39	358.32	115.29	6886.72	6890.12	6889.6	6890.34	0.00709	4.44	207.12	242.46	0.72	7.05	0.38
UpperTrib	9228.612	50-yr	66.07	407.89	156.04	6886.72	6890.3	6889.84	6890.53	0.007211	4.7	253.66	291.81	0.73	7.1	0.39
UpperTrib	9228.612	100-yr	97.84	458.11	204.05	6886.72	6890.49	6890.14	6890.73	0.007137	4.9	320.58	403.07	0.77	7.17	0.35
UpperTrib	8741.269	2-yr	4.47	56.53		6881.86	6882.29	6882.29	6882.41	0.042052	2.88	24.93	111.64	1.04	0.35	0.59
UpperTrib	8741.269	5-yr	36.28	143.72		6881.86	6882.55	6882.55	6882.75	0.04332	3.92	57.57	142.3	0.99	0.86	1.09
UpperTrib	8741.269	10-yr	67.62	212.38		6881.86	6882.7	6882.7	6882.95	0.044159	4.45	79.65	159.05	1	0.81	1.38
UpperTrib	8741.269	25-yr	146.01	363.99		6881.86	6882.96	6882.96	6883.29	0.044127	5.21	124.62	188.43	1	0.63	1.82
UpperTrib	8741.269	50-yr	189.05	440.95		6881.86	6883.07	6883.07	6883.43	0.043298	5.46	146.88	201.24	1	0.53	1.97
UpperTrib	8741.269	100-yr	235.05	524.95		6881.86	6883.16	6883.16	6883.57	0.045801	5.86	165.42	211.31	1.03	0.16	2.24
UpperTrib	8483.946	2-yr		61		6872.26	6874.57	6873.03	6874.58	0.000367	0.9	67.47	54.16	0.11		0.05
UpperTrib	8483.946	5-yr		180		6872.26	6875.79	6873.54	6875.82	0.001045	1.53	117.84	116.1	0.19		0.13
UpperTrib	8483.946	10-yr		280		6872.26	6876.54	6873.87	6876.58	0.000952	1.69	165.21	161.69	0.19		0.15
UpperTrib	8483.946	25-yr		510		6872.26	6878.02	6874.51	6878.08	0.000673	1.94	262.72	572.21	0.17		0.17
UpperTrib	8483.946	50-yr		630		6872.26	6878.92	6874.8	6878.98	0.000523	1.96	321.76	889.84	0.16		0.16

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	8483.946	100-yr	30.23	729.77		6872.26	6880.03	6875.1	6880.03	0.000042	0.43	1862.82	966.66	0.04		0.01
UpperTrib	7238		Culvert													
UpperTrib	6738.77	2-yr		65		6851.65	6853.27	6852.35	6853.33	0.004777	1.85	35.09	23.35	0.27	4.07	0.42
UpperTrib	6738.77	5-yr		180		6851.65	6854.43	6852.98	6854.56	0.006001	2.85	63.08	25.03	0.32	4.75	0.86
UpperTrib	6738.77	10-yr		289		6851.65	6854.36	6853.47	6854.7	0.016887	4.72	61.29	24.93	0.53	4.06	2.36
UpperTrib	6738.77	25-yr		514		6851.65	6854.28	6854.28	6855.44	0.05892	8.66	59.35	24.82	0.99	0.82	8.02
UpperTrib	6738.77	50-yr		644		6851.65	6854.67	6854.67	6856.02	0.0579	9.3	69.26	25.37	0.99	0.92	8.88
UpperTrib	6738.77	100-yr		776		6851.65	6855.01	6855.01	6856.55	0.058896	9.95	77.96	25.85	1.01	0.99	9.87
UpperTrib	6420.92	2-yr		65		6848.54	6849.06	6849.06	6849.26	0.091199	3.62	17.95	180.49	0.98		2.42
UpperTrib	6420.92	5-yr		180		6848.54	6849.47	6849.47	6849.81	0.078537	4.66	38.64	209.49	0.99		3.4
UpperTrib	6420.92	10-yr		289		6848.54	6850.56		6850.65	0.009442	2.32	124.64	269.05	0.37		0.7
UpperTrib	6420.92	25-yr		514		6848.54	6852.01		6852.02	0.000214	0.61	841.48	303.75	0.06		0.04
UpperTrib	6420.92	50-yr		644		6848.54	6852.38		6852.39	0.000225	0.68	952.91	306.4	0.07		0.04
UpperTrib	6420.92	100-yr		776		6848.54	6852.91		6852.91	0.000196	0.7	1115.12	309.95	0.06		0.04
UpperTrib	6411.64*	2-yr		65		6848.25	6848.57		6848.6	0.026106	1.51	43.02	146.99	0.49	0.23	0.48
UpperTrib	6411.64*	5-yr		180		6848.25	6849.24		6849.26	0.003712	1.14	158.14	191.05	0.22	0.03	0.19
UpperTrib	6411.64*	10-yr		289		6848.25	6850.56		6850.57	0.000445	0.64	450.89	262.31	0.09	0	0.05
UpperTrib	6411.64*	25-yr		514		6848.25	6852.01		6852.02	0.000187	0.61	839.93	273.33	0.06	0	0.04
UpperTrib	6411.64*	50-yr		644		6848.25	6852.38		6852.39	0.000204	0.68	940.23	275.89	0.07	0	0.04
UpperTrib	6411.64*	100-yr		776		6848.25	6852.91		6852.91	0.000187	0.71	1086.42	279.58	0.06	0	0.05
UpperTrib	6402.37*	2-yr		65		6847.97	6848.33		6848.36	0.023348	1.53	42.58	131.71	0.47	0.13	0.47
UpperTrib	6402.37*	5-yr		180		6847.97	6849.22		6849.23	0.002027	0.97	184.9	179.28	0.17	0.02	0.13
UpperTrib	6402.37*	10-yr		289		6847.97	6850.56		6850.56	0.00033	0.62	469.46	232.05	0.08	0	0.04
UpperTrib	6402.37*	25-yr		514		6847.97	6852.01		6852.02	0.000177	0.63	814.88	243.1	0.06	0	0.04
UpperTrib	6402.37*	50-yr		644		6847.97	6852.38		6852.38	0.0002	0.71	904.15	245.74	0.07	0	0.05
UpperTrib	6402.37*	100-yr		776		6847.97	6852.9		6852.91	0.000189	0.75	1034.33	249.33	0.06	0	0.05
UpperTrib	6393.09*	2-yr		65		6847.69	6848.21		6848.23	0.009084	1.18	55.25	124.35	0.31	0.05	0.25
UpperTrib	6393.09*	5-yr		180		6847.69	6849.21		6849.22	0.001361	0.88	204.24	170.5	0.14	0.01	0.1
UpperTrib	6393.09*	10-yr		289		6847.69	6850.56		6850.56	0.00028	0.62	466.81	202.08	0.07	0	0.04
UpperTrib	6393.09*	25-yr		514		6847.69	6852.01		6852.02	0.000181	0.67	768.69	213.03	0.06	0	0.04
UpperTrib	6393.09*	50-yr		644		6847.69	6852.37		6852.38	0.000209	0.76	846.85	215.56	0.07	0	0.05
UpperTrib	6393.09*	100-yr		776		6847.69	6852.9		6852.91	0.000203	0.81	961.06	219.21	0.07	0	0.06
UpperTrib	6383.82*	2-yr		65		6847.4	6848.17		6848.18	0.003267	0.89	73.31	117.02	0.2	0.02	0.13
UpperTrib	6383.82*	5-yr		180		6847.4	6849.2		6849.21	0.001011	0.83	217.86	160.34	0.12	0.01	0.09
UpperTrib	6383.82*	10-yr		289		6847.4	6850.55		6850.56	0.000268	0.65	443.84	172.31	0.07	0	0.04

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	6383.82*	25-yr		514		6847.4	6852.01		6852.01	0.0002	0.73	702.24	183.04	0.07	0	0.05
UpperTrib	6383.82*	50-yr		644		6847.4	6852.37		6852.38	0.000235	0.84	769.26	185.2	0.07	0	0.06
UpperTrib	6383.82*	100-yr		776		6847.4	6852.9		6852.91	0.000234	0.89	867.24	187.79	0.07	0	0.07
UpperTrib	6374.54*	2-yr		65		6847.11	6848.15		6848.15	0.001754	0.75	86.37	110.56	0.15	0.01	0.09
UpperTrib	6374.54*	5-yr		180		6847.11	6849.19		6849.2	0.000832	0.85	212.93	130.74	0.12	0.01	0.08
UpperTrib	6374.54*	10-yr		289		6847.11	6850.55		6850.56	0.000297	0.72	399.54	142.76	0.08	0	0.05
UpperTrib	6374.54*	25-yr		514		6847.11	6852		6852.01	0.000243	0.84	613.79	151.1	0.07	0	0.06
UpperTrib	6374.54*	50-yr		644		6847.11	6852.36		6852.38	0.000291	0.96	668.84	152.74	0.08	0	0.08
UpperTrib	6374.54*	100-yr		776		6847.11	6852.89		6852.9	0.000296	1.04	749.56	155.12	0.08	0	0.09
UpperTrib	6365.27*	2-yr		65		6846.83	6848.13		6848.14	0.001221	0.75	87	85.74	0.13	0.01	0.08
UpperTrib	6365.27*	5-yr		180		6846.83	6849.17		6849.19	0.000928	0.96	186.63	102	0.13	0.01	0.11
UpperTrib	6365.27*	10-yr		289		6846.83	6850.54		6850.55	0.000392	0.87	333.94	111.98	0.09	0.01	0.07
UpperTrib	6365.27*	25-yr		514		6846.83	6851.99		6852.01	0.000347	1.03	500.81	118	0.09	0.01	0.09
UpperTrib	6365.27*	50-yr		644		6846.83	6852.35		6852.37	0.000422	1.18	543.48	119.45	0.1	0.01	0.12
UpperTrib	6365.27*	100-yr		775.87	0.13	6846.83	6852.87		6852.9	0.000436	1.28	608.62	134.48	0.11	0.01	0.12
UpperTrib	6356.00*	2-yr		65		6846.54	6848.11		6848.13	0.001657	0.93	69.53	61.49	0.15	0.02	0.12
UpperTrib	6356.00*	5-yr		180		6846.54	6849.15		6849.18	0.001556	1.28	140.39	73.56	0.16	0.02	0.18
UpperTrib	6356.00*	10-yr		289		6846.54	6850.53		6850.55	0.000696	1.18	244.97	78.73	0.12	0.01	0.13
UpperTrib	6356.00*	25-yr		513.27	0.73	6846.54	6851.97		6852	0.000656	1.42	370.86	147.32	0.16	0.01	0.1
UpperTrib	6356.00*	50-yr		638.3	5.7	6846.54	6852.33		6852.37	0.000796	1.63	436.45	243.34	0.21	0.01	0.09
UpperTrib	6356.00*	100-yr	0.25	745.33	30.42	6846.54	6852.85		6852.89	0.000762	1.7	578.96	305.27	0.21	0.01	0.09
UpperTrib	6346.727	2-yr		40		6846.26	6848.08	6847.26	6848.11	0.003679	1.2	33.26	36.56	0.22	0.05	0.21
UpperTrib	6346.727	5-yr		110		6846.26	6849.12	6847.77	6849.16	0.002328	1.5	73.14	40.07	0.2	0.05	0.26
UpperTrib	6346.727	10-yr		260		6846.26	6850.47	6848.33	6850.53	0.002255	2	130.13	52.51	0.21	0.05	0.39
UpperTrib	6346.727	25-yr	0.15	439.88	69.98	6846.26	6851.92	6849	6851.99	0.001776	2.22	385.3	275.6	0.31	0.07	0.15
UpperTrib	6346.727	50-yr	1.61	511.75	126.64	6846.26	6852.28	6849.31	6852.35	0.001823	2.38	488.31	300.19	0.3	0.09	0.18
UpperTrib	6346.727	100-yr	8.29	552.93	208.78	6846.26	6852.82	6849.59	6852.88	0.00146	2.3	656.65	330.32	0.25	0.09	0.18
UpperTrib	6320.979	2-yr		40		6845.86	6848.04	6846.7	6848.06	0.00102	0.83	47.96	33.46	0.12		0.09
UpperTrib	6320.979	5-yr	0.47	109.09	0.45	6845.86	6849.09	6847.11	6849.11	0.001247	1.31	86.42	50.6	0.16		0.16
UpperTrib	6320.979	10-yr	2.2	253.27	4.52	6845.86	6850.42	6847.75	6850.48	0.001581	1.98	139.03	68.88	0.18		0.33
UpperTrib	6320.979	25-yr	5.55	491.07	13.37	6845.86	6851.81	6848.56	6851.92	0.002114	2.81	193.34	141.11	0.22		0.62
UpperTrib	6320.979	50-yr	7.21	615.11	17.69	6845.86	6852.1	6848.89	6852.27	0.002757	3.33	204.94	170.92	0.25		0.85
UpperTrib	6320.979	100-yr	8.81	714.02	47.17	6845.86	6852.61	6849.19	6852.8	0.002754	3.53	284.37	253.54	0.39		0.4
UpperTrib	6276.979		Bridge													
UpperTrib	6210.5	2-yr		40		6846.08	6846.84	6846.47	6846.88	0.01022	1.69	23.71	35.92	0.36	0.48	0.44

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	6210.5	5-yr		110		6846.08	6847.35	6846.83	6847.46	0.012539	2.65	41.46	41.52	0.43	0.59	0.92
UpperTrib	6210.5	10-yr		260		6846.08	6848.01	6847.37	6848.26	0.015906	4.02	64.69	48.78	0.52	0.76	1.83
UpperTrib	6210.5	25-yr		510		6846.08	6848.72	6848.03	6849.23	0.020618	5.69	89.66	56.58	0.63	0.99	3.28
UpperTrib	6210.5	50-yr		640		6846.08	6849.01	6848.36	6849.65	0.02293	6.43	99.52	59.66	0.67	1.1	4.05
UpperTrib	6210.5	100-yr		770		6846.08	6849.25	6848.63	6850.04	0.025182	7.12	108.11	66.62	0.71	1.22	4.83
UpperTrib	6158.16*	2-yr		40		6845.77	6846.37		6846.4	0.008055	1.29	31.07	55.83	0.3	0.4	0.28
UpperTrib	6158.16*	5-yr		110		6845.77	6846.81		6846.87	0.0094	1.94	56.61	61.55	0.36	0.47	0.54
UpperTrib	6158.16*	10-yr		260		6845.77	6847.39		6847.5	0.011126	2.75	94.45	69.05	0.41	0.55	0.95
UpperTrib	6158.16*	25-yr		510		6845.77	6848.04		6848.24	0.012789	3.59	142.18	77.49	0.47	0.63	1.46
UpperTrib	6158.16*	50-yr		640		6845.77	6848.31		6848.54	0.01345	3.92	163.34	80.96	0.49	0.67	1.69
UpperTrib	6158.16*	100-yr		769.99	0.01	6845.77	6848.54		6848.82	0.014027	4.21	183.07	87.05	0.51	0.7	1.83
UpperTrib	6105.82*	2-yr		40		6845.47	6845.98		6846	0.007164	1.1	36.39	76	0.28	0.38	0.21
UpperTrib	6105.82*	5-yr		110		6845.47	6846.36		6846.4	0.008178	1.66	66.21	82.13	0.33	0.42	0.41
UpperTrib	6105.82*	10-yr		260		6845.47	6846.87		6846.96	0.009379	2.35	110.46	89.98	0.37	0.48	0.72
UpperTrib	6105.82*	25-yr		510		6845.47	6847.46		6847.6	0.010601	3.08	165.7	98.9	0.42	0.54	1.11
UpperTrib	6105.82*	50-yr		640		6845.47	6847.7		6847.87	0.011109	3.37	190	102.56	0.44	0.57	1.28
UpperTrib	6105.82*	100-yr		769.97	0.03	6845.47	6847.91		6848.12	0.011561	3.62	212.62	109.93	0.46	0.59	1.39
UpperTrib	6053.48*	2-yr		40		6845.17	6845.61		6845.62	0.007127	1	40.06	96.26	0.27	0.35	0.19
UpperTrib	6053.48*	5-yr		110		6845.17	6845.94		6845.98	0.007745	1.49	73.6	102.76	0.31	0.39	0.35
UpperTrib	6053.48*	10-yr		260		6845.17	6846.41		6846.48	0.008494	2.1	123.78	111.12	0.35	0.43	0.59
UpperTrib	6053.48*	25-yr		510		6845.17	6846.94		6847.06	0.009507	2.75	185.26	120.56	0.39	0.49	0.91
UpperTrib	6053.48*	50-yr		640		6845.17	6847.16		6847.3	0.009949	3.02	212.12	124.46	0.41	0.52	1.06
UpperTrib	6053.48*	100-yr		769.83	0.17	6845.17	6847.36		6847.52	0.010353	3.25	237.54	135.76	0.43	0.54	1.13
UpperTrib	6001.15*	2-yr		40		6844.86	6845.27		6845.28	0.006108	0.88	45.35	116.95	0.25	0.36	0.15
UpperTrib	6001.15*	5-yr		110		6844.86	6845.57		6845.59	0.007058	1.35	81.48	123.63	0.29	0.37	0.29
UpperTrib	6001.15*	10-yr		260		6844.86	6845.99		6846.05	0.007862	1.91	135.86	132.38	0.33	0.42	0.5
UpperTrib	6001.15*	25-yr		510		6844.86	6846.47		6846.57	0.008924	2.53	201.7	142.27	0.37	0.48	0.79
UpperTrib	6001.15*	50-yr		639.87	0.13	6844.86	6846.67		6846.79	0.009368	2.78	231.31	163.92	0.41	0.49	0.82
UpperTrib	6001.15*	100-yr		768.27	1.73	6844.86	6846.85		6846.98	0.009748	2.99	263.1	196.3	0.46	0.51	0.81
UpperTrib	5948.81*	2-yr		40		6844.56	6844.9		6844.92	0.007677	0.89	45.07	136.73	0.27	0.28	0.16
UpperTrib	5948.81*	5-yr		110		6844.56	6845.2		6845.22	0.007027	1.27	86.84	144.55	0.29	0.41	0.26
UpperTrib	5948.81*	10-yr		259.91	0.09	6844.56	6845.57		6845.62	0.008184	1.83	143	164.19	0.34	0.43	0.44
UpperTrib	5948.81*	25-yr		504.35	5.65	6844.56	6846.01		6846.09	0.00905	2.39	225.7	219.72	0.41	0.45	0.58
UpperTrib	5948.81*	50-yr		626.7	13.3	6844.56	6846.19		6846.29	0.009158	2.59	268.25	234.27	0.42	0.45	0.65
UpperTrib	5948.81*	100-yr		747.19	22.81	6844.56	6846.36		6846.47	0.009314	2.76	307.97	247.03	0.43	0.46	0.72
UpperTrib	5896.477	2-yr		39.05	0.95	6844.25	6844.63	6844.38	6844.64	0.003829	0.67	63.05	186.3	0.2	3.67	0.08

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	5896.477	5-yr		106.19	3.81	6844.25	6844.79		6844.81	0.008687	1.27	93.97	202.28	0.32	3.25	0.25
UpperTrib	5896.477	10-yr		245.17	14.83	6844.25	6845.15		6845.19	0.008142	1.69	173.14	237.62	0.34	3.07	0.37
UpperTrib	5896.477	25-yr		468.84	41.16	6844.25	6845.58		6845.65	0.007741	2.11	285.15	281.09	0.35	2.83	0.49
UpperTrib	5896.477	50-yr		583.21	56.79	6844.25	6845.78		6845.85	0.007431	2.24	343.76	310.07	0.36	2.78	0.51
UpperTrib	5896.477	100-yr		694.73	75.27	6844.25	6845.93		6846.01	0.007597	2.4	392.17	327.54	0.37	2.75	0.57
UpperTrib	5551.916	2-yr	0	39.56	0.44	6840.11	6840.81	6840.81	6840.97	0.094417	3.2	13.24	48.55	1.07		1.6
UpperTrib	5551.916	5-yr	3.2	88.92	17.88	6840.11	6841.52		6841.57	0.010248	1.99	80.67	133.96	0.41	3.71	0.38
UpperTrib	5551.916	10-yr	12.59	187.09	60.32	6840.11	6842.04		6842.12	0.009791	2.65	162.69	180.31	0.42	3.52	0.55
UpperTrib	5551.916	25-yr	34.98	333.86	141.16	6840.11	6842.7	6841.86	6842.81	0.008685	3.22	312	288.39	0.45	3.24	0.59
UpperTrib	5551.916	50-yr	53.12	404.76	182.12	6840.11	6842.95		6843.08	0.008728	3.48	400.14	387.07	0.49	3.18	0.56
UpperTrib	5551.916	100-yr	67.97	452.72	249.31	6840.11	6843.15		6843.27	0.008342	3.59	477.99	405.49	0.46	3.08	0.61
UpperTrib	5362.949	2-yr		45		6835.82	6837.04		6837.2	0.041326	3.17	14.18	22.34	0.7	1.17	1.63
UpperTrib	5362.949	5-yr		120		6835.82	6837.57		6837.85	0.046013	4.3	27.88	30.11	0.79	1.14	2.64
UpperTrib	5362.949	10-yr		260		6835.82	6838.18		6838.61	0.046747	5.3	49.06	39.21	0.84	1.14	3.62
UpperTrib	5362.949	25-yr		529.42	0.58	6835.82	6838.98	6838.74	6839.58	0.043944	6.22	86.87	77.85	1.04	1.16	3.04
UpperTrib	5362.949	50-yr		648.09	11.91	6835.82	6839.28	6839.14	6839.9	0.041392	6.38	114.78	100.08	1.04	1.16	2.95
UpperTrib	5362.949	100-yr	0.01	768.3	31.68	6835.82	6839.55	6839.41	6840.19	0.04061	6.53	144.22	120.1	1.03	1.14	3.03
UpperTrib	5337.60*	2-yr		45		6834.67	6835.86		6836.04	0.05162	3.43	13.12	21.71	0.78	1.11	1.93
UpperTrib	5337.60*	5-yr		120		6834.67	6836.44		6836.72	0.043563	4.19	28.63	30.87	0.77	1.17	2.5
UpperTrib	5337.60*	10-yr		260		6834.67	6837.08		6837.48	0.042252	5.08	51.21	40.47	0.8	1.19	3.31
UpperTrib	5337.60*	25-yr		529.97	0.03	6834.67	6837.78	6837.6	6838.41	0.047813	6.36	83.57	64.27	0.98	1.16	3.86
UpperTrib	5337.60*	50-yr		656.31	3.69	6834.67	6838.01	6837.94	6838.74	0.049966	6.89	100.47	83.17	1.1	1.15	3.75
UpperTrib	5337.60*	100-yr		785.41	14.59	6834.67	6838.25	6838.22	6839.05	0.048637	7.24	121.56	91.76	1.1	1.14	4
UpperTrib	5312.26*	2-yr		45		6833.52	6834.79		6834.93	0.036975	3.02	14.9	23.22	0.66	1.2	1.47
UpperTrib	5312.26*	5-yr		120		6833.52	6835.26		6835.55	0.04864	4.33	27.7	30.85	0.81	1.15	2.7
UpperTrib	5312.26*	10-yr		260		6833.52	6835.83	6835.7	6836.29	0.052074	5.44	47.83	39.91	0.87	1.11	3.86
UpperTrib	5312.26*	25-yr		529.59	0.41	6833.52	6836.66	6836.44	6837.25	0.042978	6.12	87.52	64.19	0.92	1.22	3.63
UpperTrib	5312.26*	50-yr		654.74	5.26	6833.52	6836.97	6836.73	6837.6	0.038883	6.37	109.15	77.28	0.94	1.23	3.41
UpperTrib	5312.26*	100-yr		786.48	13.52	6833.52	6837.19	6837.01	6837.91	0.040094	6.84	127.02	84.22	0.97	1.2	3.75
UpperTrib	5286.91*	2-yr		45		6832.37	6833.53		6833.73	0.061866	3.61	12.46	21.8	0.84	1.08	2.18
UpperTrib	5286.91*	5-yr		120		6832.37	6834.16		6834.41	0.04126	4.03	29.8	32.71	0.74	1.21	2.32
UpperTrib	5286.91*	10-yr		260		6832.37	6834.84	6834.54	6835.18	0.035171	4.65	55.88	43.84	0.73	1.26	2.77
UpperTrib	5286.91*	25-yr		529.91	0.09	6832.37	6835.35	6835.26	6836.03	0.05354	6.58	80.79	55.34	0.96	1.15	4.84
UpperTrib	5286.91*	50-yr		659.07	0.93	6832.37	6835.53	6835.52	6836.37	0.059621	7.36	90.93	61.56	1.07	1.05	5.46
UpperTrib	5286.91*	100-yr		795.19	4.81	6832.37	6835.79	6835.79	6836.7	0.055198	7.66	108.29	68.68	1.07	0.9	5.39
UpperTrib	5261.57*	2-yr		45		6831.21	6832.54	6832.29	6832.65	0.029623	2.72	16.56	25.52	0.59	1.25	1.19

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	5261.57*	5-yr		120		6831.21	6832.9		6833.21	0.055559	4.43	27.1	32.21	0.85	1.11	2.89
UpperTrib	5261.57*	10-yr		260		6831.21	6833.35	6833.35	6833.91	0.072825	5.99	43.44	40.28	1.02	0.81	4.86
UpperTrib	5261.57*	25-yr		529.22	0.78	6831.21	6834.35		6834.87	0.036488	5.81	92.4	59.01	0.82	0.45	3.54
UpperTrib	5261.57*	50-yr		654.33	5.67	6831.21	6834.85		6835.32	0.025149	5.56	123.79	67.9	0.72	0.37	2.84
UpperTrib	5261.57*	100-yr		784.54	15.46	6831.21	6835.34		6835.78	0.018848	5.39	159.76	76.89	0.65	0.31	2.42
UpperTrib	5236.23*	2-yr		45		6830.06	6831.14	6831.14	6831.4	0.09494	4.11	10.94	21.61	1.02	0.28	2.96
UpperTrib	5236.23*	5-yr		120		6830.06	6831.9		6832.1	0.03373	3.62	33.18	36.74	0.67	0.22	1.88
UpperTrib	5236.23*	10-yr		259.95	0.05	6830.06	6832.9		6833.06	0.014088	3.3	79.02	53.96	0.48	0.17	1.28
UpperTrib	5236.23*	25-yr		522.72	7.28	6830.06	6834.24		6834.42	0.007211	3.43	162.52	70.48	0.4	0.14	1.03
UpperTrib	5236.23*	50-yr		645.21	14.79	6830.06	6834.76		6834.95	0.006293	3.53	201.03	76.95	0.38	0.13	1.01
UpperTrib	5236.23*	100-yr	0	775.1	24.9	6830.06	6835.27		6835.47	0.005674	3.63	242.04	84.08	0.37	0.13	1.01
UpperTrib	5210.887	2-yr		45		6828.91	6831	6829.99	6831.02	0.002058	0.98	45.95	44.3	0.17		0.13
UpperTrib	5210.887	5-yr		119.93	0.07	6828.91	6831.84	6830.47	6831.87	0.002118	1.36	88.78	55.28	0.19		0.21
UpperTrib	5210.887	10-yr		258.32	1.68	6828.91	6832.84	6830.97	6832.89	0.002126	1.8	147.75	62.79	0.21		0.31
UpperTrib	5210.887	25-yr		519.92	10.08	6828.91	6834.2	6831.65	6834.28	0.002203	2.34	240.27	74.18	0.23		0.44
UpperTrib	5210.887	50-yr	0.02	643.56	16.43	6828.91	6834.72	6831.88	6834.82	0.002185	2.53	280.41	78.03	0.23		0.48
UpperTrib	5210.887	100-yr	0.27	774.77	24.97	6828.91	6835.23	6832.13	6835.34	0.002146	2.71	320.81	79.56	0.23		0.53
UpperTrib	5184.12		Bridge													
UpperTrib	5159.05	2-yr	0.3	44.29	0.41	6828.89	6830.76	6829.92	6830.79	0.003155	1.35	35.78	37.93	0.24	0.44	0.18
UpperTrib	5159.05	5-yr	4.09	111.36	4.55	6828.89	6831.6	6830.4	6831.65	0.003486	2.01	74.14	54.03	0.29	0.48	0.3
UpperTrib	5159.05	10-yr	19	221.29	19.71	6828.89	6832.55	6831.01	6832.65	0.003839	2.73	135.55	70.34	0.32	0.49	0.46
UpperTrib	5159.05	25-yr	59.93	408.69	61.37	6828.89	6833.79	6831.81	6833.95	0.004136	3.57	229.76	80.52	0.33	0.48	0.73
UpperTrib	5159.05	50-yr	82.44	493.78	83.77	6828.89	6834.27	6832.14	6834.45	0.004217	3.87	269.41	83.83	0.33	0.46	0.84
UpperTrib	5159.05	100-yr	107.91	583.02	109.07	6828.89	6834.75	6832.48	6834.95	0.00427	4.15	310.05	87.1	0.34	0.44	0.94
UpperTrib	5120.029	2-yr		45		6828.9	6830.03	6830.03	6830.35	0.08455	4.59	9.8	15.09	1	0.38	3.39
UpperTrib	5120.029	5-yr		120		6828.9	6830.7	6830.65	6831.17	0.06426	5.53	21.7	20.47	0.95	0.49	4.18
UpperTrib	5120.029	10-yr		260		6828.9	6831.6	6831.39	6832.16	0.044399	5.96	43.63	27.78	0.84	0.55	4.26
UpperTrib	5120.029	25-yr		530		6828.9	6832.87	6832.34	6833.47	0.030082	6.21	85.28	37.96	0.73	0.55	4.12
UpperTrib	5120.029	50-yr		660		6828.9	6833.39	6832.72	6833.99	0.025853	6.22	106.19	42.16	0.69	0.51	3.97
UpperTrib	5120.029	100-yr		800		6828.9	6833.92	6833.05	6834.51	0.022332	6.18	129.41	53.46	0.65	0.48	3.79
UpperTrib	5091.662	2-yr		45		6827.67	6829.81	6828.68	6829.83	0.002817	1.25	35.86	29.93	0.2		0.21
UpperTrib	5091.662	5-yr		120		6827.67	6830.62	6829.31	6830.68	0.003792	1.93	62.07	32.78	0.25		0.43
UpperTrib	5091.662	10-yr		260		6827.67	6831.47	6829.96	6831.6	0.005513	2.89	89.95	33.01	0.31		0.85
UpperTrib	5091.662	25-yr		530		6827.67	6832.67	6830.75	6832.93	0.007397	4.09	129.57	33.34	0.37		1.55
UpperTrib	5091.662	50-yr		660		6827.67	6833.16	6831.08	6833.48	0.007958	4.52	146.08	33.47	0.38		1.83
UpperTrib	5091.662	100-yr		800		6827.67	6833.66	6831.4	6834.04	0.008412	4.91	162.88	33.61	0.39		2.1

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	5035.56	Culvert														
UpperTrib	4988.302	2-yr		45		6827.67	6829.78	6828.04	6829.79	0.00031	0.62	73.1	46.54	0.07	0.02	0.04
UpperTrib	4988.302	5-yr		120		6827.67	6830.54	6828.4	6830.57	0.000791	1.21	99.42	48.5	0.13	0.03	0.14
UpperTrib	4988.302	10-yr		260		6827.67	6831.25	6828.89	6831.32	0.001784	2.1	123.9	50.33	0.2	0.05	0.4
UpperTrib	4988.302	25-yr		530		6827.67	6832.08	6829.63	6832.27	0.003702	3.47	152.59	58.23	0.29	0.09	1.02
UpperTrib	4988.302	50-yr		660		6827.67	6832.37	6829.94	6832.62	0.004655	4.06	162.49	65.67	0.33	0.1	1.36
UpperTrib	4988.302	100-yr		800		6827.67	6832.61	6830.24	6832.95	0.005779	4.68	170.92	70.67	0.37	0.12	1.78
UpperTrib	4971.81*	2-yr	0.63	44.24	0.13	6828.53	6829.75		6829.77	0.003272	1.13	41.48	48.82	0.21	0.06	0.17
UpperTrib	4971.81*	5-yr	2.7	116.33	0.97	6828.53	6830.5		6830.54	0.003035	1.63	78.84	51.45	0.23	0.05	0.29
UpperTrib	4971.81*	10-yr	6.86	249.78	3.35	6828.53	6831.18		6831.27	0.00443	2.48	114.54	53.84	0.29	0.08	0.58
UpperTrib	4971.81*	25-yr	13.61	508.71	7.69	6828.53	6831.97		6832.18	0.006924	3.76	160.71	69.38	0.43	0.12	0.98
UpperTrib	4971.81*	50-yr	17.39	629.65	12.96	6828.53	6832.25		6832.52	0.007956	4.27	181.22	76.89	0.48	0.14	1.15
UpperTrib	4971.81*	100-yr	22.36	758.39	19.25	6828.53	6832.49		6832.83	0.009153	4.8	201.07	85.87	0.54	0.16	1.31
UpperTrib	4955.33*	2-yr	0.27	44.69	0.04	6828.25	6829.69		6829.71	0.004302	1.21	38.08	50.66	0.25	0.09	0.2
UpperTrib	4955.33*	5-yr	2.46	116.79	0.76	6828.25	6830.45		6830.49	0.003297	1.65	77.89	54.48	0.24	0.06	0.29
UpperTrib	4955.33*	10-yr	7.13	249.76	3.12	6828.25	6831.1		6831.19	0.004722	2.49	114.71	57.79	0.31	0.08	0.58
UpperTrib	4955.33*	25-yr	15.02	505.45	9.53	6828.25	6831.85		6832.06	0.007364	3.77	166.34	83.5	0.46	0.13	0.91
UpperTrib	4955.33*	50-yr	21.03	623.19	15.78	6828.25	6832.12		6832.38	0.008412	4.26	190.18	95.61	0.52	0.14	1.03
UpperTrib	4955.33*	100-yr	28.34	746.74	24.92	6828.25	6832.35		6832.68	0.009627	4.77	213.09	104.72	0.57	0.17	1.21
UpperTrib	4938.84*	2-yr		45	0	6827.96	6829.59		6829.62	0.006571	1.37	32.97	46.62	0.29	0.09	0.29
UpperTrib	4938.84*	5-yr	1.9	117.59	0.52	6827.96	6830.39		6830.43	0.003684	1.68	75.88	57.65	0.26	0.07	0.3
UpperTrib	4938.84*	10-yr	5.85	251.86	2.29	6827.96	6831.01		6831.11	0.005257	2.54	113.95	68.88	0.34	0.09	0.54
UpperTrib	4938.84*	25-yr	18.59	499.22	12.19	6827.96	6831.73		6831.93	0.007872	3.77	176.63	109.63	0.51	0.14	0.79
UpperTrib	4938.84*	50-yr	26.6	612	21.41	6827.96	6831.98		6832.24	0.0089	4.24	207.86	136.47	0.58	0.16	0.84
UpperTrib	4938.84*	100-yr	40.42	727.03	32.54	6827.96	6832.2		6832.51	0.010025	4.71	239.91	154.07	0.63	0.18	0.97
UpperTrib	4922.36*	2-yr		45		6827.68	6829.5		6829.53	0.004555	1.39	32.39	33.71	0.25	0.07	0.27
UpperTrib	4922.36*	5-yr	1.12	118.59	0.29	6827.68	6830.32		6830.36	0.004249	1.74	72.73	61.37	0.28	0.08	0.31
UpperTrib	4922.36*	10-yr	6.09	251.34	2.57	6827.68	6830.92		6831.02	0.005842	2.58	117.5	95.09	0.4	0.1	0.45
UpperTrib	4922.36*	25-yr	37.77	474.35	17.88	6827.68	6831.62		6831.8	0.007729	3.62	214.27	175.3	0.55	0.13	0.59
UpperTrib	4922.36*	50-yr	62.95	566.97	30.07	6827.68	6831.87		6832.08	0.008148	3.95	262.68	199.84	0.56	0.14	0.67
UpperTrib	4922.36*	100-yr	91.92	664.26	43.82	6827.68	6832.09		6832.33	0.008843	4.31	308.8	225.33	0.59	0.15	0.75
UpperTrib	4905.881	2-yr		46		6827.39	6829.44		6829.47	0.003701	1.35	34.05	31.56	0.23	1.3	0.25
UpperTrib	4905.881	5-yr	0.53	119.39	0.08	6827.39	6830.23		6830.29	0.005154	1.82	69.55	88.37	0.36	1.66	0.25
UpperTrib	4905.881	10-yr	22.08	234.25	3.67	6827.39	6830.84		6830.92	0.005643	2.45	152.77	175.85	0.44	1.72	0.31
UpperTrib	4905.881	25-yr	98.78	414.4	26.82	6827.39	6831.55		6831.67	0.006167	3.16	304.11	249.02	0.44	1.77	0.47

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	4905.881	50-yr	145.09	488.94	45.97	6827.39	6831.81		6831.94	0.00621	3.38	373.05	264.47	0.43	1.79	0.55
UpperTrib	4905.881	100-yr	189.13	562.32	68.55	6827.39	6832.04		6832.18	0.006404	3.61	433.48	276.51	0.43	1.81	0.63
UpperTrib	4751.912	2-yr	0.06	44.7	1.24	6827.34	6828.06	6827.93	6828.16	0.034571	2.63	19.72	52.09	0.74	8.31	0.82
UpperTrib	4751.912	5-yr	1.72	107.07	11.21	6827.34	6828.44	6828.29	6828.63	0.034121	3.71	43.69	76.86	0.82	7.87	1.21
UpperTrib	4751.912	10-yr	9.52	206.18	44.31	6827.34	6828.93	6828.71	6829.2	0.030352	4.66	91.69	120.25	0.84	7.43	1.44
UpperTrib	4751.912	25-yr	33.34	361.07	145.59	6827.34	6829.56	6829.35	6829.9	0.027445	5.66	188.57	184.34	0.82	6.87	1.75
UpperTrib	4751.912	50-yr	39.71	430.47	209.82	6827.34	6829.78	6829.52	6830.15	0.027668	6.08	232.46	209.63	0.82	6.66	1.91
UpperTrib	4751.912	100-yr	47.46	490.4	282.13	6827.34	6829.98	6829.72	6830.37	0.027019	6.36	276.67	229.15	0.81	6.46	2.03
UpperTrib	4351.913	2-yr		46		6817.86	6819.77	6819.21	6819.86	0.013849	2.39	19.25	20.23	0.43	5.67	0.81
UpperTrib	4351.913	5-yr		120		6817.86	6820.63		6820.77	0.012727	2.94	40.82	29.5	0.44	5.94	1.08
UpperTrib	4351.913	10-yr		260		6817.86	6821.58		6821.78	0.012454	3.54	73.52	39.62	0.46	6.15	1.42
UpperTrib	4351.913	25-yr	0.12	539.53	0.36	6817.86	6822.75		6823.03	0.011708	4.23	128.96	57.88	0.5	6.36	1.6
UpperTrib	4351.913	50-yr	1.05	676.43	2.52	6817.86	6823.17		6823.49	0.011068	4.55	155.01	66.59	0.52	6.36	1.59
UpperTrib	4351.913	100-yr	3.04	810.09	6.87	6817.86	6823.54		6823.9	0.01071	4.84	181.05	73.83	0.54	6.39	1.62
UpperTrib	3951.913	2-yr		46		6812.77	6814.13	6813.77	6814.19	0.014456	2.1	21.88	29.06	0.43	2.37	0.67
UpperTrib	3951.913	5-yr		120		6812.77	6814.67	6814.17	6814.82	0.017537	3.09	38.89	33.46	0.5	2.41	1.26
UpperTrib	3951.913	10-yr		260		6812.77	6815.38	6814.77	6815.63	0.01939	4.01	64.88	40.57	0.56	2.56	1.91
UpperTrib	3951.913	25-yr		540		6812.77	6816.21	6815.57	6816.65	0.022721	5.35	100.94	45.89	0.64	2.64	3.07
UpperTrib	3951.913	50-yr		680		6812.77	6816.65	6815.89	6817.13	0.024629	5.51	123.39	57.11	0.66	2.72	3.27
UpperTrib	3951.913	100-yr		820		6812.77	6817.01	6816.17	6817.51	0.026154	5.63	145.73	68.51	0.68	2.76	3.43
UpperTrib	3849.362	2-yr		46		6810.74	6811.7		6811.83	0.042386	2.85	16.14	30.56	0.69	1.01	1.39
UpperTrib	3849.362	5-yr		120		6810.74	6812.22		6812.41	0.033037	3.51	34.19	39.23	0.66	1.02	1.79
UpperTrib	3849.362	10-yr		259.79	0.21	6810.74	6812.76		6813.07	0.033152	4.49	58.28	49.64	0.73	0.9	2.42
UpperTrib	3849.362	25-yr		531.56	8.44	6810.74	6813.54		6814.02	0.029377	5.62	101.95	62.16	0.77	0.86	2.99
UpperTrib	3849.362	50-yr	0	664.13	15.87	6810.74	6813.85		6814.4	0.028531	6.04	122.19	67.74	0.78	0.8	3.19
UpperTrib	3849.362	100-yr	0.1	794.78	25.12	6810.74	6814.13		6814.75	0.027417	6.41	141.9	73.09	0.8	0.69	3.3
UpperTrib	3822.34*	2-yr		46		6809.61	6810.69	6810.48	6810.81	0.033295	2.81	16.34	26.27	0.63	1.22	1.29
UpperTrib	3822.34*	5-yr		120		6809.61	6811.13		6811.39	0.043276	4.09	29.32	32.69	0.76	1.02	2.41
UpperTrib	3822.34*	10-yr		260		6809.61	6811.84		6812.18	0.033137	4.66	55.77	41.77	0.71	1.05	2.74
UpperTrib	3822.34*	25-yr		537.83	2.17	6809.61	6812.59		6813.16	0.033611	6.08	90.44	49.33	0.79	0.85	3.81
UpperTrib	3822.34*	50-yr		674.7	5.3	6809.61	6812.97		6813.6	0.03049	6.39	109.74	52.47	0.78	0.73	3.94
UpperTrib	3822.34*	100-yr	0.05	810.61	9.34	6809.61	6813.42		6814.05	0.024051	6.4	134.37	57.24	0.73	0.57	3.47
UpperTrib	3795.32*	2-yr		46		6808.48	6809.36		6809.59	0.061109	3.81	12.07	19.37	0.85	1.15	2.36
UpperTrib	3795.32*	5-yr		120		6808.48	6810.12	6809.82	6810.36	0.032694	3.93	30.5	29.15	0.68	1.27	2.12
UpperTrib	3795.32*	10-yr		260		6808.48	6810.66		6811.13	0.042873	5.45	47.68	34.11	0.81	1.05	3.7
UpperTrib	3795.32*	25-yr		538.99	1.01	6808.48	6811.76		6812.32	0.028606	5.99	91.19	44.17	0.73	0.62	3.63

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	3795.32*	50-yr	0	676.34	3.66	6808.48	6812.31		6812.86	0.021897	5.98	116.39	46.99	0.67	0.49	3.32
UpperTrib	3795.32*	100-yr	0.08	811.6	8.32	6808.48	6812.98		6813.48	0.015025	5.74	148.26	49.05	0.58	0.36	2.75
UpperTrib	3768.30*	2-yr		46		6807.34	6808.3	6808.05	6808.44	0.02927	3.03	15.2	19.73	0.61	1.33	1.39
UpperTrib	3768.30*	5-yr		120		6807.34	6808.64	6808.59	6809.09	0.065362	5.36	22.39	22.5	0.95	1.03	4
UpperTrib	3768.30*	10-yr		260		6807.34	6809.63		6810.07	0.0349	5.36	48.49	30.28	0.75	0.57	3.43
UpperTrib	3768.30*	25-yr	0	538.73	1.27	6807.34	6811.31		6811.7	0.014577	4.99	109.61	41.75	0.54	0.32	2.32
UpperTrib	3768.30*	50-yr	0.02	676.02	3.95	6807.34	6811.98		6812.37	0.011199	5.05	138.06	43.2	0.5	0.27	2.14
UpperTrib	3768.30*	100-yr	0.13	811.56	8.31	6807.34	6812.75		6813.13	0.008291	4.96	171.75	44.87	0.44	0.21	1.87
UpperTrib	3741.28*	2-yr		46		6806.21	6806.82	6806.82	6807.11	0.090369	4.31	10.67	18.97	1.01	0.39	3.13
UpperTrib	3741.28*	5-yr		120		6806.21	6807.84		6808.05	0.020601	3.68	32.63	23.96	0.56	0.24	1.71
UpperTrib	3741.28*	10-yr		260		6806.21	6809.3		6809.5	0.009525	3.57	72.79	30.88	0.41	0.18	1.35
UpperTrib	3741.28*	25-yr	0.01	537.95	2.04	6806.21	6811.13		6811.38	0.006246	3.99	137.82	38.56	0.37	0.15	1.3
UpperTrib	3741.28*	50-yr	0.06	675.23	4.71	6806.21	6811.83		6812.11	0.00566	4.25	165.06	39.72	0.37	0.14	1.35
UpperTrib	3741.28*	100-yr	0.17	811.03	8.8	6806.21	6812.62		6812.91	0.004777	4.34	197.12	41.04	0.35	0.12	1.29
UpperTrib	3714.26	2-yr		46		6805.08	6806.51	6805.63	6806.55	0.003523	1.47	31.22	23.62	0.23		0.28
UpperTrib	3714.26	5-yr		120		6805.08	6807.75	6806.1	6807.81	0.002903	1.92	62.52	26.76	0.22		0.39
UpperTrib	3714.26	10-yr		260		6805.08	6809.23	6806.77	6809.32	0.002891	2.49	104.21	30.48	0.23		0.58
UpperTrib	3714.26	25-yr	0.03	539.97		6805.08	6811.05	6807.77	6811.23	0.003181	3.41	158.61	35.26	0.26		0.91
UpperTrib	3714.26	50-yr	0.08	679.92		6805.08	6811.74	6808.18	6811.97	0.003359	3.8	179.39	36.19	0.27		1.07
UpperTrib	3714.26	100-yr	0.19	819.81		6805.08	6812.54	6808.56	6812.79	0.003229	4.05	203.41	37.26	0.28		1.14
UpperTrib	3667.171		Culvert													
UpperTrib	3619.655	2-yr		46		6804.58	6806.39	6805.12	6806.41	0.001744	1.2	38.33	22.32	0.16	0.93	0.17
UpperTrib	3619.655	5-yr		120		6804.58	6807.65	6805.62	6807.7	0.002112	1.78	67.41	23.93	0.19	1.16	0.33
UpperTrib	3619.655	10-yr		260		6804.58	6809.04	6806.3	6809.14	0.002917	2.55	101.89	25.71	0.23	1.6	0.6
UpperTrib	3619.655	25-yr		540		6804.58	6810.65	6807.34	6810.86	0.004339	3.74	144.31	27.78	0.28	2.24	1.19
UpperTrib	3619.655	50-yr		680		6804.58	6811.21	6807.79	6811.49	0.00505	4.26	159.53	39.8	0.31	2.51	1.5
UpperTrib	3619.655	100-yr		815.6	4.4	6804.58	6811.77	6808.18	6812.1	0.005869	4.61	186.29	48.26	0.41	2.78	1.21
UpperTrib	3385.78*	2-yr		46		6803.48	6805.46		6805.49	0.002993	1.42	32.45	23.06	0.21	2.31	0.25
UpperTrib	3385.78*	5-yr		120		6803.48	6806.47		6806.54	0.003871	2.02	59.37	29.85	0.25	3.06	0.46
UpperTrib	3385.78*	10-yr		252.96	7.04	6803.48	6807.42		6807.54	0.005326	2.8	106.13	68.02	0.39	3.65	0.5
UpperTrib	3385.78*	25-yr	0.02	473.24	66.75	6803.48	6808.45		6808.63	0.006756	3.65	209.75	118.66	0.45	4.13	0.73
UpperTrib	3385.78*	50-yr	0.31	572.88	106.81	6803.48	6808.78		6808.99	0.007126	4	249.89	123.97	0.46	4.24	0.88
UpperTrib	3385.78*	100-yr	1.1	673.79	145.11	6803.48	6809.08		6809.33	0.007474	4.33	290.24	152.51	0.51	4.35	0.87
UpperTrib	3151.913	2-yr		20.41	25.59	6802.38	6803.17		6803.18	0.013677	1.22	50.17	133.08	0.28	5.17	0.32
UpperTrib	3151.913	5-yr	0	62.45	57.55	6802.38	6803.43	6803.07	6803.48	0.019127	2.08	91.18	158.02	0.38	5.09	0.69

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	3151.913	10-yr	0.33	133.48	126.19	6802.38	6803.81		6803.88	0.017048	2.73	152	162.98	0.39	5.13	0.99
UpperTrib	3151.913	25-yr	2.73	274.1	263.17	6802.38	6804.37		6804.49	0.015921	3.56	245.2	170.85	0.41	5.31	1.42
UpperTrib	3151.913	50-yr	4.72	344.28	331	6802.38	6804.61		6804.75	0.015678	3.89	285.58	175.04	0.42	5.4	1.59
UpperTrib	3151.913	100-yr	7.41	413.42	399.17	6802.38	6804.82		6804.98	0.015547	4.17	324.84	200.23	0.45	5.48	1.57
UpperTrib	2744.492	2-yr	19.71	23.6	2.69	6797.24	6797.98		6798	0.011814	1.57	57.11	169.61	0.36	4.7	0.25
UpperTrib	2744.492	5-yr	54.71	48.3	17	6797.24	6798.36		6798.39	0.008785	1.91	142.41	277.67	0.32	4.92	0.28
UpperTrib	2744.492	10-yr	117.03	86.51	56.46	6797.24	6798.72		6798.76	0.009628	2.48	259.82	369.09	0.33	5.05	0.42
UpperTrib	2744.492	25-yr	229.93	144.73	165.34	6797.24	6799.13		6799.19	0.01079	3.16	424.27	409.19	0.32	5.13	0.7
UpperTrib	2744.492	50-yr	283.95	171.23	224.83	6797.24	6799.29		6799.35	0.011253	3.42	489.5	415.71	0.32	5.16	0.83
UpperTrib	2744.492	100-yr	337.48	196.83	285.69	6797.24	6799.43		6799.5	0.011625	3.65	549.62	421.88	0.33	5.17	0.94
UpperTrib	2393.844	2-yr	17.46	10.95	17.59	6792.97	6793.31	6793.05	6793.31	0.015279	0.87	76.56	291.7	0.22	6.47	0.25
UpperTrib	2393.844	5-yr	37.43	34.48	48.08	6792.97	6793.45		6793.47	0.025891	1.46	124.67	370.15	0.32	6.17	0.54
UpperTrib	2393.844	10-yr	66.07	90.26	103.67	6792.97	6793.68		6793.71	0.023835	2.09	217.39	427.59	0.36	6.04	0.76
UpperTrib	2393.844	25-yr	132.63	188.66	218.71	6792.97	6794		6794.05	0.020972	2.7	353.61	438.67	0.37	5.84	1.06
UpperTrib	2393.844	50-yr	165.82	237.7	276.47	6792.97	6794.13		6794.2	0.020058	2.92	413.26	443.38	0.37	5.77	1.17
UpperTrib	2393.844	100-yr	199.03	286.63	334.34	6792.97	6794.26		6794.33	0.019301	3.11	469.61	447.78	0.37	5.72	1.26
UpperTrib	2000	2-yr		45.23	0.77	6785.7	6786.8		6786.85	0.017657	1.89	27.29	91.17	0.6	0.7	0.33
UpperTrib	2000	5-yr	2.77	92.92	24.31	6785.7	6787.24		6787.3	0.010486	2.07	101.92	231.67	0.49	0.86	0.29
UpperTrib	2000	10-yr	15.72	162.79	81.49	6785.7	6787.61		6787.68	0.010689	2.6	188.69	245.39	0.42	0.85	0.51
UpperTrib	2000	25-yr	50.55	286.37	203.08	6785.7	6788.11		6788.21	0.011035	3.29	317.13	264.39	0.4	0.82	0.83
UpperTrib	2000	50-yr	71.84	343.94	264.22	6785.7	6788.31		6788.42	0.011163	3.55	371.06	269.51	0.4	0.83	0.96
UpperTrib	2000	100-yr	94.86	399.91	325.23	6785.7	6788.49		6788.62	0.011308	3.79	420.04	272.66	0.4	0.82	1.09
UpperTrib	1923.28*	2-yr		45.06	0.94	6784.92	6786.12		6786.15	0.005485	1.29	41.88	134.01	0.4	0.05	0.11
UpperTrib	1923.28*	5-yr	0.61	104.79	14.6	6784.92	6786.36		6786.43	0.011967	2.25	82.04	221.89	0.61	0.2	0.28
UpperTrib	1923.28*	10-yr	14.13	180.28	65.59	6784.92	6786.75		6786.83	0.011442	2.76	179.54	266.42	0.5	0.38	0.48
UpperTrib	1923.28*	25-yr	53.9	301.52	184.59	6784.92	6787.28		6787.39	0.010471	3.3	334.51	307.09	0.43	0.54	0.71
UpperTrib	1923.28*	50-yr	75.05	356.5	248.45	6784.92	6787.49		6787.6	0.010391	3.53	397.82	316.77	0.42	0.59	0.81
UpperTrib	1923.28*	100-yr	97.04	409.16	313.8	6784.92	6787.68		6787.8	0.010184	3.7	460.3	328.81	0.41	0.62	0.89
UpperTrib	1846.57*	2-yr	3	31.05	11.95	6784.13	6786.09		6786.09	0.000193	0.4	229.63	305.73	0.07	0	0.01
UpperTrib	1846.57*	5-yr	9.56	75.65	34.79	6784.13	6786.23		6786.23	0.000874	0.9	271.43	310.13	0.14	0.02	0.05
UpperTrib	1846.57*	10-yr	24.51	151.19	84.3	6784.13	6786.43		6786.46	0.002404	1.61	336.22	325.76	0.22	0.08	0.15
UpperTrib	1846.57*	25-yr	65.82	280.29	193.89	6784.13	6786.79		6786.85	0.004667	2.52	458.45	350.13	0.29	0.19	0.38
UpperTrib	1846.57*	50-yr	89.52	339.2	251.27	6784.13	6786.95		6787.02	0.005498	2.85	513.44	360.56	0.31	0.25	0.49
UpperTrib	1846.57*	100-yr	107.45	399.9	312.65	6784.13	6787.1		6787.18	0.00628	3.17	569.06	388.42	0.34	0.3	0.57
UpperTrib	1769.85*	2-yr	5.78	23.34	16.88	6783.35	6786.09		6786.09	0.000025	0.19	523.8	382.19	0.02	0	0
UpperTrib	1769.85*	5-yr	16.06	58.8	45.14	6783.35	6786.21		6786.21	0.000133	0.46	570.42	387.65	0.05	0.01	0.01

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	1769.85*	10-yr	37.43	122.4	100.17	6783.35	6786.37		6786.38	0.000473	0.91	633.94	397.07	0.09	0.02	0.05
UpperTrib	1769.85*	25-yr	79.63	243.17	217.2	6783.35	6786.63		6786.65	0.001383	1.65	742.85	435.84	0.16	0.06	0.15
UpperTrib	1769.85*	50-yr	105.82	298.84	275.34	6783.35	6786.74		6786.77	0.001861	1.96	789.71	440.74	0.18	0.09	0.21
UpperTrib	1769.85*	100-yr	133.61	352.42	333.97	6783.35	6786.84		6786.88	0.002322	2.23	835.81	446.58	0.2	0.11	0.27
UpperTrib	1693.141	2-yr	7.19	19.47	19.34	6782.57	6786.09	6783.25	6786.09	0.000006	0.12	904.69	482.9	0.01		0
UpperTrib	1693.141	5-yr	19.85	49.55	50.59	6782.57	6786.2	6783.82	6786.2	0.000036	0.29	961.91	488.91	0.03		0
UpperTrib	1693.141	10-yr	45.69	104.09	110.22	6782.57	6786.35	6784.63	6786.36	0.000137	0.59	1035.9	495.05	0.05		0.02
UpperTrib	1693.141	25-yr	102.32	207.19	230.49	6782.57	6786.58	6785.91	6786.59	0.000444	1.1	1149.61	504.49	0.09		0.06
UpperTrib	1693.141	50-yr	132.1	257.01	290.89	6782.57	6786.67	6786.01	6786.68	0.000634	1.33	1193.98	510.86	0.1		0.09
UpperTrib	1693.141	100-yr	162.83	305.67	351.5	6782.57	6786.75	6786.01	6786.77	0.000837	1.55	1236.88	516.77	0.12		0.12
UpperTrib	1661.946		Culvert													
UpperTrib	1631.806	2-yr		46		6780.57	6781.77	6781.77	6782.19	0.037684	5.25	8.76	42.89	0.99	2.61	2.04
UpperTrib	1631.806	5-yr		120		6780.57	6782.55	6782.55	6783.36	0.030455	7.23	16.6	192.05	0.99	2.61	3.13
UpperTrib	1631.806	10-yr		260		6780.57	6783.66	6783.66	6785.03	0.025847	9.37	27.74	359.25	0.99	2.73	4.43
UpperTrib	1631.806	25-yr	153.99	213.18	172.83	6780.57	6784.39	6784.39	6784.4	0.000581	1.46	727.94	487.25	0.15	0.27	0.05
UpperTrib	1631.806	50-yr	193.92	268.45	217.64	6780.57	6784.39	6784.39	6784.41	0.000921	1.84	727.94	487.25	0.19	0.35	0.09
UpperTrib	1631.806	100-yr	233.84	323.71	262.44	6780.57	6784.39	6784.39	6784.43	0.001339	2.22	727.94	487.25	0.22	0.46	0.12
UpperTrib	1489.711	2-yr		46		6777.68	6778.93		6778.99	0.009689	1.88	24.52	47.79	0.46	5.66	0.31
UpperTrib	1489.711	5-yr	0.35	117.41	2.25	6777.68	6779.32		6779.43	0.00975	2.68	48.13	73.72	0.58	5.83	0.4
UpperTrib	1489.711	10-yr	4.52	237.13	18.35	6777.68	6779.78	6779.4	6779.96	0.009859	3.56	92.57	132.36	0.72	6.02	0.43
UpperTrib	1489.711	25-yr	20.97	411.57	107.46	6777.68	6780.35		6780.58	0.008968	4.32	215.77	308.29	0.8	6.27	0.39
UpperTrib	1489.711	50-yr	28.87	459.37	181.76	6777.68	6780.54		6780.75	0.008169	4.39	274.49	317.97	0.7	6.32	0.44
UpperTrib	1489.711	100-yr	37.35	529.47	253.18	6777.68	6780.66		6780.9	0.009043	4.79	312.26	324	0.71	6.28	0.54
UpperTrib	1199.006	2-yr		0.07	45.93	6773.22	6773.32		6773.33	0.007011	0.33	61.01	184.1	0.23	6.06	0.15
UpperTrib	1199.006	5-yr		2.38	117.62	6773.22	6773.58		6773.6	0.007331	0.74	113.53	221.55	0.26	5.9	0.23
UpperTrib	1199.006	10-yr		15.76	244.24	6773.22	6773.9		6773.93	0.007665	1.32	193.6	274.74	0.28	5.7	0.34
UpperTrib	1199.006	25-yr		50.95	489.05	6773.22	6774.25		6774.31	0.00905	1.95	299.15	328.54	0.33	5.38	0.51
UpperTrib	1199.006	50-yr		69.16	600.84	6773.22	6774.36		6774.42	0.010208	2.24	332.98	340.74	0.36	5.29	0.62
UpperTrib	1199.006	100-yr	0.02	97.48	722.5	6773.22	6774.54		6774.61	0.009028	2.43	398.59	362.49	0.35	5.28	0.62
UpperTrib	800	2-yr		46		6766.17	6767.07	6767.07	6767.27	0.053855	3.55	12.97	35.14	1.03	0.32	1.24
UpperTrib	800	5-yr	0.7	119.3		6766.17	6767.42	6767.42	6767.71	0.043197	4.34	28.31	54.57	1.06	0.91	1.4
UpperTrib	800	10-yr	10.94	248.75	0.31	6766.17	6767.81	6767.81	6768.23	0.034632	5.3	53.8	72.55	1.06	2.32	1.6
UpperTrib	800	25-yr	50.43	468.71	20.87	6766.17	6768.45	6768.45	6768.93	0.021711	5.93	124.67	191.34	1.21	2.01	0.88
UpperTrib	800	50-yr	72.88	535.39	61.72	6766.17	6768.7	6768.7	6769.13	0.017592	5.87	179.11	258.39	1.12	1.77	0.76
UpperTrib	800	100-yr	93	631.75	95.26	6766.17	6768.79	6768.79	6769.32	0.020775	6.6	204.07	282.49	1.22	1.99	0.94

Falcon DBPS

Middle Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	400	2-yr	0.65	43.8	1.55	6758.55	6760.54	6759.25	6760.54	0.000187	0.51	101.26	97.95	0.09		0.01
UpperTrib	400	5-yr	2.91	111.02	6.07	6758.55	6760.82	6759.59	6760.84	0.000657	1.08	130.22	109.05	0.17		0.05
UpperTrib	400	10-yr	8	236.29	15.71	6758.55	6760.99	6759.97	6761.05	0.002159	2.09	149.38	115.81	0.31		0.17
UpperTrib	400	25-yr	35.51	446.48	58.01	6758.55	6761.91	6760.49	6762	0.00202	2.64	273.17	154.24	0.32		0.22
UpperTrib	400	50-yr	53.11	532.8	84.09	6758.55	6762.32	6760.69	6762.42	0.001819	2.74	340.89	176.39	0.31		0.22
UpperTrib	400	100-yr	75.63	646.27	98.09	6758.55	6762.61	6760.89	6762.73	0.002002	3.05	397.01	215.31	0.36		0.23

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
UpperTrib	10706 Culvert #1	2-yr	6920.01	6920.01	6919.83	6920.01	6920.01	9		3.9	5.99	7.92
UpperTrib	10706 Culvert #1	5-yr	6920.16	6920.16	6920.16	6920.16	6920.01	9.78	22.51	3.6	6.3	5.69
UpperTrib	10706 Culvert #1	10-yr	6920.26	6920.25	6920.26	6920.26	6920.01	10.27	48.04	3.41	6.49	5.98
UpperTrib	10706 Culvert #1	25-yr	6920.43	6920.41	6920.43	6920.43	6920.01	10.59	113.26	3.08	6.16	6.16
UpperTrib	10706 Culvert #1	50-yr	6920.59	6920.56	6920.56	6920.59	6920.01	10.47	179.53	2.99	6.09	6.09
UpperTrib	10706 Culvert #1	100-yr	6920.68	6920.61	6920.68	6920.68	6920.01	10.25	247.95	2.93	5.97	5.97
UpperTrib	7238 Culvert #2	2-yr	6874.58	6874.57	6874.33	6874.58	6880.01	58.11		21.29	5.5	8.78
UpperTrib	7238 Culvert #1	2-yr	6874.58	6874.57	6874.49	6874.58	6880.01	2.89		21.29	2.47	0.19
UpperTrib	7238 Culvert #2	5-yr	6875.82	6875.79	6875.52	6875.82	6880.01	138.57		21.36	7.19	11.19
UpperTrib	7238 Culvert #1	5-yr	6875.82	6875.79	6875.6	6875.83	6880.01	41.43		21.36	5	1.42
UpperTrib	7238 Culvert #2	10-yr	6876.58	6876.54	6876.29	6876.58	6880.01	197.16		22.18	8.16	12.32
UpperTrib	7238 Culvert #1	10-yr	6876.58	6876.54	6876.3	6876.59	6880.01	82.84		22.18	6.11	2.78
UpperTrib	7238 Culvert #2	25-yr	6878.08	6878.02	6878.06	6878.07	6880.01	318.29		23.74	10.1	13.88
UpperTrib	7238 Culvert #1	25-yr	6878.08	6878.02	6877.79	6878.09	6880.01	191.71		23.74	8.07	13.36
UpperTrib	7238 Culvert #2	50-yr	6878.98	6878.92	6878.98	6878.69	6880.01	366.01		24.24	9.71	14.26
UpperTrib	7238 Culvert #1	50-yr	6878.98	6878.92	6878.76	6878.98	6880.01	263.99		24.24	9.21	14.51
UpperTrib	7238 Culvert #2	100-yr	6880.03	6880.03	6880.03	6879.35	6880.01	414.03	6.32	25.01	10.98	14.59
UpperTrib	7238 Culvert #1	100-yr	6880.03	6880.03	6880.03	6879.92	6880.01	339.64	6.32	25.01	10.47	15.46
UpperTrib	5035.56 Culvert #1	2-yr	6829.83	6829.81	6828.91	6829.83	6836.01	22.5		0.03	1.15	1.16
UpperTrib	5035.56 Culvert #2	2-yr	6829.83	6829.81	6828.91	6829.83	6836.01	22.5		0.03	1.15	1.16
UpperTrib	5035.56 Culvert #1	5-yr	6830.68	6830.62	6829.6	6830.68	6836.01	60		0.08	2.07	2.11
UpperTrib	5035.56 Culvert #2	5-yr	6830.68	6830.62	6829.6	6830.68	6836.01	60		0.08	2.07	2.11
UpperTrib	5035.56 Culvert #1	10-yr	6831.61	6831.47	6830.6	6831.61	6836.01	130		0.22	3.4	3.52
UpperTrib	5035.56 Culvert #2	10-yr	6831.61	6831.47	6830.6	6831.61	6836.01	130		0.22	3.4	3.52
UpperTrib	5035.56 Culvert #1	25-yr	6832.93	6832.67	6832.13	6832.93	6836.01	265		0.59	5.34	5.65
UpperTrib	5035.56 Culvert #2	25-yr	6832.93	6832.67	6832.13	6832.93	6836.01	265		0.59	5.34	5.65
UpperTrib	5035.56 Culvert #1	50-yr	6833.48	6833.16	6832.77	6833.48	6836.01	330		0.79	6.12	6.55
UpperTrib	5035.56 Culvert #2	50-yr	6833.48	6833.16	6832.77	6833.48	6836.01	330		0.79	6.12	6.55
UpperTrib	5035.56 Culvert #1	100-yr	6834.04	6833.66	6833.42	6834.04	6836.01	400		1.05	6.9	7.51
UpperTrib	5035.56 Culvert #2	100-yr	6834.04	6833.66	6833.42	6834.04	6836.01	400		1.05	6.9	7.51
UpperTrib	3667.171 Culvert #1	2-yr	6806.55	6806.51	6806.41	6806.55	6816.01	46		0.12	2.98	1.75
UpperTrib	3667.171 Culvert #1	5-yr	6807.81	6807.75	6807.18	6807.81	6816.01	120		0.11	2.93	2.34
UpperTrib	3667.171 Culvert #1	10-yr	6809.32	6809.23	6808.3	6809.32	6816.01	260		0.19	3.79	3.28
UpperTrib	3667.171 Culvert #1	25-yr	6811.23	6811.05	6810.08	6811.23	6816.01	540		0.4	5.37	4.85
UpperTrib	3667.171 Culvert #1	50-yr	6811.97	6811.74	6810.86	6811.97	6816.01	680		0.53	6.09	5.54
UpperTrib	3667.171 Culvert #1	100-yr	6812.8	6812.54	6811.59	6812.8	6816.01	820		0.76	6.52	6.47
UpperTrib	1661.946 Culvert #1	2-yr	6786.09	6786.09	6786.08	6786.09	6786.01	17.84	27.54	4.32	5.68	6.96

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
UpperTrib	1661.946 Culvert #1	5-yr	6786.2	6786.2	6786.2	6786.2	6786.01	18.32	102.21	3.65	5.83	7.05
UpperTrib	1661.946 Culvert #1	10-yr	6786.36	6786.35	6786.38	6786.36	6786.01	17.35	240	2.69	5.52	5.52
UpperTrib	1661.946 Culvert #1	25-yr	6786.59	6786.58	6786.58	6786.59	6786.01	19.12	522.74	2.19	6.09	6.1
UpperTrib	1661.946 Culvert #1	50-yr	6786.68	6786.67	6786.68	6786.68	6786.01	19.52	656.96	2.28	6.21	6.23
UpperTrib	1661.946 Culvert #1	100-yr	6786.77	6786.75	6786.77	6786.77	6786.01	19.89	795.17	2.37	6.33	6.35

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
UpperTrib	6346.727	2-yr	6848.11	6848.08	6847.26	0.05	0.01	36.56		40		1.2
UpperTrib	6346.727	5-yr	6849.16	6849.12	6847.77	0.04	0	40.07		110		1.5
UpperTrib	6346.727	10-yr	6850.53	6850.47	6848.33	0.05	0	52.51		260		2
UpperTrib	6346.727	25-yr	6851.99	6851.92	6849	0.05	0.02	275.6	0.15	439.88	69.98	2.22
UpperTrib	6346.727	50-yr	6852.35	6852.28	6849.31	0.06	0.03	300.19	1.61	511.75	126.64	2.38
UpperTrib	6346.727	100-yr	6852.88	6852.82	6849.59	0.05	0.04	330.32	8.29	552.93	208.78	2.3
UpperTrib	6320.979	2-yr	6848.06	6848.04	6846.7			33.46		40		0.83
UpperTrib	6320.979	5-yr	6849.11	6849.09	6847.11			50.6	0.47	109.09	0.45	1.31
UpperTrib	6320.979	10-yr	6850.48	6850.42	6847.75			68.88	2.2	253.27	4.52	1.98
UpperTrib	6320.979	25-yr	6851.92	6851.81	6848.56			141.11	5.55	491.07	13.37	2.81
UpperTrib	6320.979	50-yr	6852.27	6852.1	6848.89			170.92	7.21	615.11	17.69	3.33
UpperTrib	6320.979	100-yr	6852.8	6852.61	6849.19			253.54	8.81	714.02	47.17	3.53
UpperTrib	6276.979BR U	2-yr	6848.03	6847.99	6846.95			18.88		40		1.52
UpperTrib	6276.979BR U	5-yr	6849.09	6849	6847.57			22.67		110		2.33
UpperTrib	6276.979BR U	10-yr	6850.45	6850.29	6848.44			27.07		260		3.27
UpperTrib	6276.979BR U	25-yr	6851.92	6851.42	6849.5					510		4.63
UpperTrib	6276.979BR U	50-yr	6852.27	6851.42	6849.93					640		5.81
UpperTrib	6276.979BR U	100-yr	6852.8	6851.42	6850.29					770		7
UpperTrib	6276.979BR D	2-yr	6847.52	6847.46	6846.77			16.85		40		2.04
UpperTrib	6276.979BR D	5-yr	6848.37	6848.2	6847.4			19.67		110		3.3
UpperTrib	6276.979BR D	10-yr	6849.5	6849.13	6848.29			23.16		260		4.89
UpperTrib	6276.979BR D	25-yr	6850.54	6849.34	6849.34			23.93		510		8.79
UpperTrib	6276.979BR D	50-yr	6851.12	6849.79	6849.79			25.64		640		9.24
UpperTrib	6276.979BR D	100-yr	6851.64	6850.18	6850.18			27.07		770		9.69
UpperTrib	6210.5	2-yr	6846.88	6846.84	6846.47	0.47	0.01	35.92		40		1.69
UpperTrib	6210.5	5-yr	6847.46	6847.35	6846.83	0.57	0.03	41.52		110		2.65
UpperTrib	6210.5	10-yr	6848.26	6848.01	6847.37	0.69	0.07	48.78		260		4.02
UpperTrib	6210.5	25-yr	6849.23	6848.72	6848.03	0.84	0.15	56.58		510		5.69
UpperTrib	6210.5	50-yr	6849.65	6849.01	6848.36	0.9	0.2	59.66		640		6.43
UpperTrib	6210.5	100-yr	6850.04	6849.25	6848.63	0.96	0.26	66.62		770		7.12
UpperTrib	6158.16*	2-yr	6846.4	6846.37		0.4	0	55.83		40		1.29
UpperTrib	6158.16*	5-yr	6846.87	6846.81		0.46	0.01	61.55		110		1.94
UpperTrib	6158.16*	10-yr	6847.5	6847.39		0.53	0.02	69.05		260		2.75
UpperTrib	6158.16*	25-yr	6848.24	6848.04		0.61	0.03	77.49		510		3.59
UpperTrib	6158.16*	50-yr	6848.54	6848.31		0.64	0.03	80.96		640		3.92
UpperTrib	6158.16*	100-yr	6848.82	6848.54		0.66	0.04	87.05		769.99	0.01	4.21

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
UpperTrib	5236.23*	2-yr	6831.4	6831.14	6831.14	0.16	0.12	21.61		45		4.11
UpperTrib	5236.23*	5-yr	6832.1	6831.9		0.14	0.09	36.74		120		3.62
UpperTrib	5236.23*	10-yr	6833.06	6832.9		0.11	0.06	53.96		259.95	0.05	3.3
UpperTrib	5236.23*	25-yr	6834.42	6834.24		0.09	0.05	70.48		522.72	7.28	3.43
UpperTrib	5236.23*	50-yr	6834.95	6834.76		0.09	0.05	76.95		645.21	14.79	3.53
UpperTrib	5236.23*	100-yr	6835.47	6835.27		0.08	0.04	84.08	0	775.1	24.9	3.63
UpperTrib	5210.887	2-yr	6831.02	6831	6829.99			44.3		45		0.98
UpperTrib	5210.887	5-yr	6831.87	6831.84	6830.47			55.28		119.93	0.07	1.36
UpperTrib	5210.887	10-yr	6832.89	6832.84	6830.97			62.79		258.32	1.68	1.8
UpperTrib	5210.887	25-yr	6834.28	6834.2	6831.65			74.18		519.92	10.08	2.34
UpperTrib	5210.887	50-yr	6834.82	6834.72	6831.88			78.03	0.02	643.56	16.43	2.53
UpperTrib	5210.887	100-yr	6835.34	6835.23	6832.13			79.56	0.27	774.77	24.97	2.71
UpperTrib	5184.12 BR U	2-yr	6830.97	6830.94	6830.08			37.1		45		1.25
UpperTrib	5184.12 BR U	5-yr	6831.82	6831.77	6830.62			47.25		119.93	0.07	1.68
UpperTrib	5184.12 BR U	10-yr	6832.84	6832.76	6831.15			52.78		257.84	2.16	2.2
UpperTrib	5184.12 BR U	25-yr	6834.21	6834.09	6831.85			60.73		514.55	15.45	2.84
UpperTrib	5184.12 BR U	50-yr	6834.75	6834.61	6832.1			64.36	0.01	635.38	24.61	3.06
UpperTrib	5184.12 BR U	100-yr	6835.27	6835.11	6832.37			65.3	0.29	764.44	35.27	3.27
UpperTrib	5184.12 BR D	2-yr	6830.85	6830.81	6830.05			31.44	0.15	44.28	0.57	1.5
UpperTrib	5184.12 BR D	5-yr	6831.72	6831.65	6830.54			47.55	3.1	112.37	4.53	2.25
UpperTrib	5184.12 BR D	10-yr	6832.73	6832.61	6831.16			58.45	17.14	222.94	19.92	3.03
UpperTrib	5184.12 BR D	25-yr	6834.05	6833.85	6832.04			65.3	55.27	415.68	59.05	4
UpperTrib	5184.12 BR D	50-yr	6834.56	6834.33	6832.38			65.3	75.76	505.16	79.08	4.37
UpperTrib	5184.12 BR D	100-yr	6835.07	6834.8	6832.69			65.3	98.36	600.68	100.95	4.73
UpperTrib	5159.05	2-yr	6830.79	6830.76	6829.92	0.35	0.09	37.93	0.3	44.29	0.41	1.35
UpperTrib	5159.05	5-yr	6831.65	6831.6	6830.4	0.36	0.12	54.03	4.09	111.36	4.55	2.01
UpperTrib	5159.05	10-yr	6832.65	6832.55	6831.01	0.36	0.14	70.34	19	221.29	19.71	2.73
UpperTrib	5159.05	25-yr	6833.95	6833.79	6831.81	0.34	0.13	80.52	59.93	408.69	61.37	3.57
UpperTrib	5159.05	50-yr	6834.45	6834.27	6832.14	0.33	0.13	83.83	82.44	493.78	83.77	3.87
UpperTrib	5159.05	100-yr	6834.95	6834.75	6832.48	0.32	0.12	87.1	107.91	583.02	109.07	4.15
UpperTrib	5120.029	2-yr	6830.35	6830.03	6830.03	0.23	0.15	15.09		45		4.59
UpperTrib	5120.029	5-yr	6831.17	6830.7	6830.65	0.28	0.21	20.47		120		5.53
UpperTrib	5120.029	10-yr	6832.16	6831.6	6831.39	0.34	0.21	27.78		260		5.96
UpperTrib	5120.029	25-yr	6833.47	6832.87	6832.34	0.38	0.17	37.96		530		6.21

Falcon DBPS
Middle Tributary Existing Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
UpperTrib	5120.029	50-yr	6833.99	6833.39	6832.72	0.37	0.14	42.16		660		6.22
UpperTrib	5120.029	100-yr	6834.51	6833.92	6833.05	0.37	0.11	53.46		800		6.18

Falcon DBPS

Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	15477.33	2-yr			1	7016.62	7016.39	7016.39	7016.41	0.267517		0.78	15.77	1.02	1.06	0.82
UpperTrib	15477.33	5-yr			11	7016.62	7016.54	7016.54	7016.59	0.174974		5.85	49.07	0.96	1.09	1.3
UpperTrib	15477.33	10-yr			25	7016.62	7016.62	7016.62	7016.71	0.168087		10.24	56.38	1.01	1.16	1.91
UpperTrib	15477.33	25-yr	0.22	6.7	55.08	7016.62	7016.79	7016.79	7016.89	0.101653	1.85	24.42	118.41	1.01	1.1	1.31
UpperTrib	15477.33	50-yr	2.66	28.37	88.97	7016.62	7016.91	7016.91	7017.05	0.096262	3.02	40.18	140.32	1	3.62	1.72
UpperTrib	15477.33	100-yr	4.88	44.49	110.63	7016.62	7016.96	7016.96	7017.14	0.095462	3.6	48.53	144.75	1.03	3.64	2
UpperTrib	15411.72	2-yr			1	7006.16	7006.52		7006.53	0.005244	0.71	1.41	7.41	0.29	2.83	0.06
UpperTrib	15411.72	5-yr			11	7006.16	7007.06		7007.08	0.005737	1.25	8.8	21.18	0.34	2.83	0.15
UpperTrib	15411.72	10-yr			25	7006.16	7007.35		7007.39	0.006193	1.53	16.29	30.56	0.37	2.93	0.21
UpperTrib	15411.72	25-yr			62	7006.16	7007.78		7007.84	0.006515	1.87	33.07	47.73	0.4	3.15	0.28
UpperTrib	15411.72	50-yr			120	7006.16	7007.68	7007.62	7007.96	0.035446	4.23	28.35	42.97	0.92	2.95	1.46
UpperTrib	15411.72	100-yr			160	7006.16	7007.84	7007.84	7008.15	0.035962	4.49	35.65	50.01	0.94	1.79	1.6
UpperTrib	15205.81	2-yr			1	7003.24	7003.62	7003.62	7003.7	0.094152	2.17	0.46	3.28	1.02		0.68
UpperTrib	15205.81	5-yr			11	7003.24	7004.06	7004.06	7004.26	0.065598	3.56	3.09	8.8	1.06		1.31
UpperTrib	15205.81	10-yr			25	7003.24	7004.34	7004.34	7004.46	0.060164	2.77	9.04	37.76	1		0.88
UpperTrib	15205.81	25-yr			62	7003.24	7004.55	7004.55	7004.68	0.069632	2.94	21.07	90.72	1.08		1
UpperTrib	15205.81	50-yr			120	7003.24	7004.97		7005.01	0.007416	1.58	75.82	154.84	0.4		0.23
UpperTrib	15205.81	100-yr			160	7003.24	7005.23		7005.25	0.003589	1.37	117.1	173.01	0.29		0.15
UpperTrib	15182.0*	2-yr			1	7002.96	7003.45		7003.46	0.012943	1.05	0.95	4.82	0.42	0.3	0.14
UpperTrib	15182.0*	5-yr			11	7002.96	7004.08		7004.1	0.012887	1.21	9.08	41.41	0.46	0.31	0.17
UpperTrib	15182.0*	10-yr			25	7002.96	7004.23		7004.27	0.012483	1.51	16.6	53.55	0.48	0.29	0.24
UpperTrib	15182.0*	25-yr			62	7002.96	7004.55		7004.59	0.01054	1.63	37.98	96.14	0.46	0.19	0.26
UpperTrib	15182.0*	50-yr			120	7002.96	7004.97		7005	0.003551	1.32	90.91	140.26	0.29	0.08	0.14
UpperTrib	15182.0*	100-yr			160	7002.96	7005.23		7005.25	0.002339	1.24	129.1	160.14	0.24	0.05	0.12
UpperTrib	15158.2*	2-yr			1	7002.67	7003.15		7003.16	0.012539	1.05	0.95	4.82	0.42	0.32	0.14
UpperTrib	15158.2*	5-yr			11	7002.67	7003.77		7003.79	0.013259	1.29	8.5	35.89	0.47	0.33	0.19
UpperTrib	15158.2*	10-yr			25	7002.67	7003.94		7003.98	0.01198	1.64	15.27	42.06	0.48	0.27	0.27
UpperTrib	15158.2*	25-yr			62	7002.67	7004.35		7004.4	0.006508	1.72	36.14	58.89	0.39	0.12	0.25
UpperTrib	15158.2*	50-yr			120	7002.67	7004.89		7004.92	0.003128	1.34	89.24	121.72	0.28	0.07	0.14
UpperTrib	15158.2*	100-yr			160	7002.67	7005.17		7005.2	0.002122	1.27	125.81	139.54	0.24	0.05	0.12
UpperTrib	15134.4*	2-yr			1	7002.38	7002.83		7002.85	0.014366	1.12	0.9	4.69	0.45	0.27	0.16
UpperTrib	15134.4*	5-yr			11	7002.38	7003.42		7003.45	0.014492	1.53	7.2	25.33	0.5	0.27	0.25
UpperTrib	15134.4*	10-yr			25	7002.38	7003.67		7003.71	0.010404	1.69	14.79	34.97	0.46	0.17	0.27
UpperTrib	15134.4*	25-yr			62	7002.38	7004.24		7004.28	0.003925	1.59	39.1	49.06	0.31	0.08	0.19
UpperTrib	15134.4*	50-yr			120	7002.38	7004.82		7004.85	0.00294	1.43	84.13	100.25	0.27	0.08	0.15
UpperTrib	15134.4*	100-yr			160	7002.38	7005.12		7005.15	0.002128	1.37	117.16	117	0.24	0.06	0.13

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Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	15110.6*	2-yr		1		7002.1	7002.56		7002.58	0.009404	0.97	1.03	5	0.38	0.04	0.11
UpperTrib	15110.6*	5-yr		11		7002.1	7003.14		7003.18	0.009356	1.44	7.63	21.09	0.42	0.12	0.21
UpperTrib	15110.6*	10-yr		25		7002.1	7003.51		7003.54	0.005139	1.48	16.89	28.73	0.34	0.09	0.19
UpperTrib	15110.6*	25-yr		62		7002.1	7004.16		7004.2	0.002916	1.58	39.15	39.35	0.28	0.07	0.18
UpperTrib	15110.6*	50-yr		120		7002.1	7004.73		7004.77	0.003356	1.64	73.39	78.59	0.3	0.1	0.19
UpperTrib	15110.6*	100-yr		160		7002.1	7005.05		7005.09	0.002681	1.58	101.2	96.42	0.27	0.08	0.17
UpperTrib	15086.8*	2-yr		1		7001.81	7002.54		7002.54	0.000634	0.34	2.97	9.64	0.11	0.01	0.01
UpperTrib	15086.8*	5-yr		11		7001.81	7003.04		7003.06	0.002785	1.07	10.29	17.97	0.25	0.05	0.1
UpperTrib	15086.8*	10-yr		25		7001.81	7003.42		7003.45	0.003074	1.41	17.7	21.88	0.28	0.08	0.15
UpperTrib	15086.8*	25-yr		62		7001.81	7004.08		7004.13	0.002958	1.8	34.48	28.81	0.29	0.1	0.22
UpperTrib	15086.8*	50-yr		120		7001.81	7004.6		7004.67	0.005166	2.16	55.55	53.96	0.38	0.2	0.33
UpperTrib	15086.8*	100-yr		160		7001.81	7004.94		7005.01	0.0042	2.09	76.4	66.65	0.34	0.2	0.3
UpperTrib	15063.05	2-yr		1		7001.53	7002.53		7002.53	0.000097	0.19	5.21	9.55	0.05	0.01	0
UpperTrib	15063.05	5-yr		11		7001.53	7002.99		7003.01	0.001739	1.08	10.2	12.14	0.21	0.02	0.09
UpperTrib	15063.05	10-yr		25		7001.53	7003.32		7003.37	0.003354	1.72	14.52	13.99	0.3	0.04	0.21
UpperTrib	15063.05	25-yr		62		7001.53	7003.93		7004.03	0.005189	2.58	24	17.36	0.39	0.08	0.43
UpperTrib	15063.05	50-yr		120		7001.53	7004.21		7004.47	0.012982	4.1	29.29	21.19	0.61	0.15	1.08
UpperTrib	15063.05	100-yr		160		7001.53	7004.52		7004.81	0.016569	4.29	37.28	30.49	0.68	0.17	1.23
UpperTrib	14907.55	2-yr		31		6999.46	7002.53	7000.35	7002.53	0.000031	0.24	129.01	73.65	0.03	0.04	0
UpperTrib	14907.55	5-yr		70		6999.46	7002.99	7000.52	7002.99	0.000086	0.42	165.77	86.66	0.05	0.07	0.01
UpperTrib	14907.55	10-yr		108		6999.46	7003.32	7000.69	7003.33	0.000132	0.55	196.5	95.59	0.07	0.1	0.02
UpperTrib	14907.55	25-yr	0.01	201.99		6999.46	7003.94	7001.02	7003.95	0.000218	0.77	261.54	113.59	0.09	0.15	0.03
UpperTrib	14907.55	50-yr	0.23	279.77		6999.46	7004.31	7001.25	7004.32	0.000266	0.93	304.19	120.59	0.1	0.17	0.04
UpperTrib	14907.55	100-yr	0.85	359.15		6999.46	7004.62	7001.45	7004.64	0.000308	1.06	343.25	126.77	0.11	0.19	0.05
UpperTrib	14773.98	2-yr		31		7001.63	7002.28	7002.28	7002.49	0.048485	3.67	8.44	19.97	1	4.34	1.27
UpperTrib	14773.98	5-yr		69.83	0.17	7001.63	7002.59	7002.59	7002.91	0.041272	4.56	15.53	25.84	1.04	8.13	1.54
UpperTrib	14773.98	10-yr		106.44	1.56	7001.63	7002.82	7002.82	7003.23	0.036575	5.12	22.06	30.48	1.05	7.62	1.64
UpperTrib	14773.98	25-yr		191.28	10.72	7001.63	7003.3	7003.3	7003.8	0.029135	5.85	39.5	45.61	1.08	4.21	1.57
UpperTrib	14773.98	50-yr	0	254.2	25.8	7001.63	7003.57	7003.57	7004.15	0.027704	6.35	52.97	52.58	1.07	6.48	1.73
UpperTrib	14773.98	100-yr	0.43	315.2	44.37	7001.63	7003.82	7003.82	7004.45	0.025311	6.74	67.29	66.98	1.12	6.27	1.58
UpperTrib	14507.55	2-yr	0.54	30.01	0.45	6993.79	6994.28		6994.31	0.007939	1.46	23.1	73.2	0.45	6.98	0.16
UpperTrib	14507.55	5-yr	1.95	66.47	1.58	6993.79	6994.35		6994.46	0.023144	2.77	28.37	78.8	0.79	6.86	0.52
UpperTrib	14507.55	10-yr	5.01	98.73	4.26	6993.79	6994.48	6994.39	6994.63	0.022556	3.22	39.59	89.56	0.82	6.91	0.62
UpperTrib	14507.55	25-yr	19.36	162.62	20.03	6993.79	6994.94		6995.06	0.009472	3.03	88.5	120.48	0.57	7.15	0.43
UpperTrib	14507.55	50-yr	25.85	227.58	26.57	6993.79	6994.9		6995.15	0.020926	4.4	83.95	118.29	0.84	7	0.93
UpperTrib	14507.55	100-yr	37.68	282.91	39.41	6993.79	6995.04	6994.92	6995.33	0.021297	4.82	100.84	126.24	0.86	7.04	1.06

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Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	14107.55	2-yr		31		6986.95	6987.24	6987.24	6987.33	0.065124	2.42	12.82	71.16	1		0.73
UpperTrib	14107.55	5-yr		70		6986.95	6987.54	6987.38	6987.59	0.013148	1.81	38.59	99.33	0.51	8.7	0.32
UpperTrib	14107.55	10-yr		107.81	0.19	6986.95	6987.66	6987.48	6987.73	0.013559	2.14	51.02	114.65	0.56	8.65	0.38
UpperTrib	14107.55	25-yr		201.58	0.42	6986.95	6987.66	6987.66	6987.91	0.04538	3.94	51.81	115.42	1.03		1.27
UpperTrib	14107.55	50-yr	0.27	270.72	9.01	6986.95	6988	6987.79	6988.14	0.014745	3.13	97.4	155.24	0.69	8.55	0.58
UpperTrib	14107.55	100-yr	0.79	341.84	17.37	6986.95	6988.12	6987.9	6988.29	0.01466	3.43	116.94	162.35	0.7	8.51	0.66
UpperTrib	13707.55	2-yr		31		6977.87	6978.47	6978.47	6978.63	0.056799	3.13	9.9	33.62	1.02	0.05	1.04
UpperTrib	13707.55	5-yr	0.95	69.05		6977.87	6978.71	6978.71	6978.9	0.042481	3.53	21.08	67.94	1.11	0.08	0.82
UpperTrib	13707.55	10-yr	6.08	101.92		6977.87	6978.85	6978.85	6979.08	0.039652	3.94	31.23	79.46	1.08	0.11	0.97
UpperTrib	13707.55	25-yr	24.67	177.25	0.08	6977.87	6979.09	6979.09	6979.4	0.036108	4.68	52.74	97.69	1.06	0.19	1.22
UpperTrib	13707.55	50-yr	43.5	235.77	0.73	6977.87	6979.25	6979.25	6979.61	0.033492	5.13	69.64	112.81	1.07	0.25	1.29
UpperTrib	13707.55	100-yr	64.14	293.32	2.53	6977.87	6979.38	6979.38	6979.79	0.033396	5.6	85.14	126.75	1.1	0.31	1.4
UpperTrib	13306.32	2-yr		30.99	0.01	6968.22	6972.01		6972.01	0.000004	0.12	266.11	96.02	0.01	0.01	0
UpperTrib	13306.32	5-yr	0.02	69.94	0.04	6968.22	6972.31		6972.31	0.000014	0.24	296.11	107.18	0.03	0.02	0
UpperTrib	13306.32	10-yr	0.14	107.75	0.11	6968.22	6972.51		6972.51	0.000028	0.34	318.32	114.14	0.04	0.03	0
UpperTrib	13306.32	25-yr	0.97	200.62	0.4	6968.22	6972.86		6972.87	0.000068	0.58	360.19	121.65	0.06	0.08	0.01
UpperTrib	13306.32	50-yr	2.52	276.63	0.85	6968.22	6973.17		6973.18	0.000099	0.74	398.48	127.6	0.07	0.09	0.02
UpperTrib	13306.32	100-yr	4.46	354.14	1.4	6968.22	6973.39		6973.4	0.000135	0.89	426.85	131.78	0.09	0.12	0.03
UpperTrib	13111.17	2-yr		31		6971.24	6971.95		6972	0.012758	1.8	17.23	43.88	0.51	5.29	0.31
UpperTrib	13111.17	5-yr	0.25	69.75		6971.24	6972.2	6971.99	6972.29	0.013361	2.38	29.94	58.02	0.58	5.37	0.43
UpperTrib	13111.17	10-yr	1.4	106.57	0.03	6971.24	6972.35	6972.14	6972.48	0.014656	2.88	39.19	66.73	0.66	5.46	0.54
UpperTrib	13111.17	25-yr	3.79	198.02	0.19	6971.24	6972.42	6972.42	6972.78	0.037054	4.88	44.03	70.99	1.08	4.89	1.43
UpperTrib	13111.17	50-yr	16.89	259.97	3.14	6971.24	6972.83	6972.62	6973.09	0.015885	4.22	79.18	107.58	0.84	5.75	0.73
UpperTrib	13111.17	100-yr	27.21	324.79	8	6971.24	6972.96	6972.8	6973.28	0.017306	4.73	94.46	115.5	0.88	5.84	0.88
UpperTrib	12893	2-yr		31		6966.28	6966.6	6966.6	6966.71	0.062277	2.63	11.8	55.92	1.01		0.82
UpperTrib	12893	5-yr		70		6966.28	6966.79	6966.79	6966.9	0.059256	2.69	26.04	114.93	1	6.82	0.84
UpperTrib	12893	10-yr		108		6966.28	6966.88	6966.88	6967.01	0.05172	2.88	37.53	135.06	0.96	6.75	0.9
UpperTrib	12893	25-yr	0.25	201.53	0.22	6966.28	6967.26	6967.01	6967.31	0.014507	1.86	109.94	314.82	0.55	9.47	0.32
UpperTrib	12893	50-yr	0	279.89	0.11	6966.28	6967.18	6967.18	6967.34	0.050973	3.18	88.23	274.77	0.99	7.3	1.02
UpperTrib	12893	100-yr	0.46	359.15	0.4	6966.28	6967.26	6967.26	6967.43	0.04573	3.3	110.25	315.3	0.98	7.44	1
UpperTrib	12511.32	2-yr		31		6957.11	6957.34	6957.34	6957.41	0.069153	2.18	14.22	96.57	1		0.64
UpperTrib	12511.32	5-yr		70		6957.11	6957.64	6957.46	6957.66	0.008439	1.3	54.02	165.17	0.4	8.57	0.17
UpperTrib	12511.32	10-yr	0	108	0	6957.11	6957.74		6957.77	0.008785	1.5	72.04	186.95	0.43	8.58	0.21
UpperTrib	12511.32	25-yr		202		6957.11	6957.67	6957.67	6957.85	0.051574	3.35	60.37	172.95	1		1.12
UpperTrib	12511.32	50-yr	0.85	274.78	4.37	6957.11	6958.01		6958.09	0.009879	2.26	132.13	255.76	0.55	8.59	0.32
UpperTrib	12511.32	100-yr	1.71	349.1	9.19	6957.11	6958.1		6958.19	0.010699	2.54	154.87	279.28	0.59	8.58	0.37

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Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	12037.33	2-yr		31		6948.69	6948.89	6948.89	6948.96	0.076015	2.1	14.77	113.99	1.03	9.11	0.62
UpperTrib	12037.33	5-yr		70		6948.69	6948.99	6948.99	6949.09	0.062571	2.55	27.42	136.23	1		0.79
UpperTrib	12037.33	10-yr		108		6948.69	6949.07	6949.07	6949.19	0.056499	2.84	38.02	149.2	0.99		0.9
UpperTrib	12037.33	25-yr	0.01	199.66	2.33	6948.69	6949.25	6949.2	6949.39	0.033394	3.02	69.74	203.3	0.9	10.41	0.72
UpperTrib	12037.33	50-yr	0.09	274.27	5.63	6948.69	6949.29	6949.29	6949.5	0.043317	3.71	79.85	206.58	1.04		1.05
UpperTrib	12037.33	100-yr	0.58	346.54	12.88	6948.69	6949.39	6949.37	6949.62	0.036675	3.87	100.24	213.11	0.98	10.07	1.08
UpperTrib	11628.61	2-yr		31		6936.98	6937.93		6937.99	0.010482	1.98	15.67	29.73	0.48	8.21	0.34
UpperTrib	11628.61	5-yr		69.59	0.41	6936.98	6938.14		6938.29	0.018887	3.1	23.22	43.63	0.75	8.17	0.62
UpperTrib	11628.61	10-yr		105.3	2.7	6936.98	6938.3	6938.18	6938.52	0.021756	3.8	30.76	50.55	0.85	8.16	0.82
UpperTrib	11628.61	25-yr	0.24	186.22	15.54	6936.98	6938.66	6938.52	6938.97	0.019989	4.64	50.74	61.13	0.86	8.24	1.03
UpperTrib	11628.61	50-yr	1.86	248.43	29.71	6936.98	6938.91	6938.74	6939.27	0.018622	5.09	67.2	70.45	0.87	8.3	1.1
UpperTrib	11628.61	100-yr	5.25	308.58	46.17	6936.98	6939.13	6938.94	6939.54	0.017641	5.47	84.09	80.58	0.88	8.36	1.14
UpperTrib	11228.61	2-yr		31		6928.82	6929.62	6929.62	6929.78	0.056566	3.22	9.64	30.95	1.02	8.98	1.08
UpperTrib	11228.61	5-yr	0	69.25	0.74	6928.82	6930		6930.13	0.022112	2.95	24.47	49.83	0.74	9.65	0.67
UpperTrib	11228.61	10-yr	0.63	104.87	2.5	6928.82	6930.19	6930.03	6930.36	0.019107	3.3	35.25	62.55	0.77	9.65	0.66
UpperTrib	11228.61	25-yr	5.91	187.42	8.67	6928.82	6930.47	6930.35	6930.74	0.021153	4.25	55.54	81.25	0.88	9.62	0.89
UpperTrib	11228.61	50-yr	13.26	251.57	15.18	6928.82	6930.64	6930.55	6930.98	0.02321	4.89	69.99	92.39	0.94	9.61	1.09
UpperTrib	11228.61	100-yr	22.33	314.84	22.83	6928.82	6930.78	6930.71	6931.19	0.025145	5.45	83.71	103.61	1.01	9.6	1.25
UpperTrib	10828.61	2-yr		31		6919.04	6920.13		6920.2	0.011903	2.09	14.81	28.46	0.51	0.08	0.39
UpperTrib	10828.61	5-yr		70		6919.04	6920.34		6920.5	0.026662	3.21	21.82	40.49	0.77	0.2	0.89
UpperTrib	10828.61	10-yr	0.04	107.96		6919.04	6920.49	6920.42	6920.71	0.031364	3.79	28.59	49.15	0.88	0.32	1.14
UpperTrib	10828.61	25-yr	3.15	198.85		6919.04	6920.82	6920.73	6921.12	0.027581	4.39	48.25	68.09	0.91	0.54	1.22
UpperTrib	10828.61	50-yr	9.7	270.3		6919.04	6921.05	6920.94	6921.38	0.024838	4.64	65.37	81.03	0.9	0.67	1.25
UpperTrib	10828.61	100-yr	19.3	340.7	0	6919.04	6921.26		6921.6	0.022822	4.82	82.91	92.53	0.88	0.79	1.27
UpperTrib	10741.93	2-yr	3.42	27.57	0.01	6917.93	6920.12	6918.7	6920.12	0.000154	0.42	93.97	129.37	0.08		0.01
UpperTrib	10741.93	5-yr	10.36	59.46	0.18	6917.93	6920.29	6919	6920.3	0.000462	0.79	117.48	148.37	0.14		0.02
UpperTrib	10741.93	10-yr	18.04	89.34	0.62	6917.93	6920.37	6919.19	6920.39	0.000852	1.11	130.84	163	0.2		0.04
UpperTrib	10741.93	25-yr	40.59	158.92	2.49	6917.93	6920.54	6919.59	6920.58	0.001876	1.77	160.44	193.28	0.31		0.1
UpperTrib	10741.93	50-yr	61.66	213.86	4.47	6917.93	6920.64	6919.84	6920.71	0.002778	2.25	181.2	217.31	0.39		0.14
UpperTrib	10741.93	100-yr	84.36	268.34	7.3	6917.93	6920.72	6920.01	6920.81	0.003767	2.7	199.13	235.43	0.46		0.2
UpperTrib	10706		Culvert													
UpperTrib	10665.96	2-yr		31		6915.33	6916.55	6916.31	6916.66	0.015474	2.64	11.72	19.2	0.6	6.06	0.58
UpperTrib	10665.96	5-yr		70		6915.33	6916.95	6916.7	6917.14	0.016442	3.45	20.32	23.38	0.65	6.04	0.88
UpperTrib	10665.96	10-yr		108		6915.33	6917.23	6916.95	6917.47	0.017211	3.97	27.22	26.21	0.69	6.05	1.1
UpperTrib	10665.96	25-yr		202		6915.33	6917.44	6917.44	6918.02	0.035222	6.12	33	28.36	1	4.13	2.53
UpperTrib	10665.96	50-yr		280		6915.33	6917.75	6917.75	6918.43	0.034282	6.62	42.3	31.66	1.01	4.32	2.82

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	10665.96	100-yr		359.72	0.28	6915.33	6918.08	6918.08	6918.79	0.030918	6.75	53.66	38.71	1.01	4.26	2.64
UpperTrib	10428.61	2-yr		31		6909.21	6910.33	6910.33	6910.59	0.048475	4.12	7.52	14.79	1.02	4.98	1.51
UpperTrib	10428.61	5-yr		70		6909.21	6910.72	6910.72	6911.08	0.043268	4.83	14.49	20.68	1.02	4.49	1.87
UpperTrib	10428.61	10-yr		108		6909.21	6910.99	6910.99	6911.42	0.040338	5.24	20.6	24.71	1.01	5.03	2.07
UpperTrib	10428.61	25-yr		202		6909.21	6912.08		6912.27	0.00955	3.52	57.46	42.69	0.53	6.87	0.79
UpperTrib	10428.61	50-yr		279.97	0.03	6909.21	6912.38		6912.62	0.010347	3.95	71.02	52.02	0.6	7.05	0.87
UpperTrib	10428.61	100-yr	0.01	357.42	2.57	6909.21	6912.62		6912.91	0.010771	4.35	86.44	74.34	0.71	7.2	0.78
UpperTrib	10028.61	2-yr		30.58	0.42	6904.41	6904.95		6904.97	0.005473	1.11	29.54	109.07	0.37	9.46	0.09
UpperTrib	10028.61	5-yr	0.1	64.03	5.87	6904.41	6905.17		6905.2	0.004899	1.4	58.31	143.94	0.37	8.68	0.12
UpperTrib	10028.61	10-yr	0.61	95.4	11.99	6904.41	6905.28		6905.33	0.005856	1.73	75.37	158.7	0.42	8.29	0.17
UpperTrib	10028.61	25-yr	0.3	184.49	17.2	6904.41	6905.18	6905.18	6905.41	0.03949	4	59.01	144.56	1.06	6.86	1.01
UpperTrib	10028.61	50-yr	1.77	246.33	31.9	6904.41	6905.3	6905.3	6905.57	0.036481	4.39	77.55	160.51	1.05	6.6	1.1
UpperTrib	10028.61	100-yr	4.41	307.63	47.96	6904.41	6905.4	6905.4	6905.71	0.03591	4.77	94.37	173.79	1.07	7.15	1.22
UpperTrib	9628.612	2-yr		150		6891.99	6894.95	6894.95	6895.49	0.038857	5.88	25.52	23.96	1	5.33	2.44
UpperTrib	9628.612	5-yr		350		6891.99	6895.81	6895.81	6896.52	0.035342	6.73	52.04	37.46	1.01	5.49	2.91
UpperTrib	9628.612	10-yr		489.52	0.48	6891.99	6896.22	6896.22	6897.03	0.031475	7.22	68.61	51.7	1.1	5.41	2.51
UpperTrib	9628.612	25-yr	4.84	699.53	95.63	6891.99	6897.17	6897.17	6897.76	0.014462	6.57	183.03	227.14	1.21	4.07	0.72
UpperTrib	9628.612	50-yr	9.88	788.8	181.32	6891.99	6897.41	6897.41	6898	0.01372	6.78	241.99	264.09	1.13	4.16	0.78
UpperTrib	9628.612	100-yr	15.91	910.21	273.88	6891.99	6897.59	6897.59	6898.24	0.015	7.38	290.5	291.95	1.15	4.21	0.92
UpperTrib	9228.612	2-yr	0.09	137.38	12.54	6886.72	6889.12	6888.53	6889.25	0.00644	2.94	62.73	78.87	0.56	6.56	0.32
UpperTrib	9228.612	5-yr	11.48	274.67	63.86	6886.72	6889.78	6889.25	6889.98	0.006946	3.96	136.28	153.92	0.67	6.92	0.38
UpperTrib	9228.612	10-yr	31.58	349.96	108.46	6886.72	6890.09	6889.55	6890.31	0.007117	4.4	198.43	238.7	0.73	7.05	0.37
UpperTrib	9228.612	25-yr	111.62	472.13	216.25	6886.72	6890.53	6890.18	6890.78	0.007228	4.98	336.71	412.68	0.77	7.16	0.37
UpperTrib	9228.612	50-yr	170.58	537.29	272.13	6886.72	6890.69	6890.35	6890.95	0.007818	5.37	403.95	452.69	0.77	7.17	0.44
UpperTrib	9228.612	100-yr	282.02	585.35	332.62	6886.72	6890.89	6890.61	6891.14	0.007425	5.47	497.74	468.94	0.69	7.18	0.49
UpperTrib	8741.269	2-yr	27.28	122.72		6881.86	6882.5	6882.5	6882.68	0.043745	3.75	49.96	136.04	1.01	0.83	1
UpperTrib	8741.269	5-yr	90.97	259.03		6881.86	6882.79	6882.79	6883.06	0.043581	4.69	94.56	169.44	0.99	0.73	1.52
UpperTrib	8741.269	10-yr	139.15	350.85		6881.86	6882.94	6882.94	6883.26	0.043685	5.13	121.42	186.51	1	0.64	1.77
UpperTrib	8741.269	25-yr	250.5	549.5		6881.86	6883.2	6883.2	6883.61	0.044115	5.85	174.28	215.96	1.01	0.17	2.22
UpperTrib	8741.269	50-yr	320.25	659.54	0.21	6881.86	6883.38	6883.38	6883.78	0.037019	5.86	221.3	336.86	1.11	0.17	1.52
UpperTrib	8741.269	100-yr	400.45	798.91	0.64	6881.86	6883.46	6883.46	6883.96	0.041724	6.56	252.53	386.77	1.23	0.21	1.7
UpperTrib	8483.946	2-yr		150		6872.26	6875.53	6873.43	6875.57	0.001004	1.45	103.39	100.22	0.18		0.12
UpperTrib	8483.946	5-yr		350		6872.26	6877	6874.05	6877.05	0.000841	1.79	196.05	189.38	0.18		0.16
UpperTrib	8483.946	10-yr		490		6872.26	6877.9	6874.42	6877.95	0.00069	1.93	254.54	524.09	0.17		0.17
UpperTrib	8483.946	25-yr	32.32	767.68		6872.26	6880.08	6875.18	6880.09	0.000044	0.44	1896.28	968.21	0.04		0.01
UpperTrib	8483.946	50-yr	41.44	938.56		6872.26	6880.27	6875.86	6880.28	0.000055	0.51	2008.38	970.95	0.05		0.01

Falcon DBPS

Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	8483.946	100-yr	52.25	1147.75		6872.26	6880.41	6876.22	6880.41	0.000072	0.6	2088.84	974.72	0.06		0.02
UpperTrib	7238		Culvert													
UpperTrib	6738.77	2-yr		151		6851.65	6854.2	6852.85	6854.31	0.005615	2.63	57.45	24.71	0.3	4.62	0.74
UpperTrib	6738.77	5-yr		360		6851.65	6854.14	6853.75	6854.78	0.034659	6.44	55.92	24.62	0.75	3.69	4.5
UpperTrib	6738.77	10-yr		495		6851.65	6854.22	6854.22	6855.36	0.059346	8.57	57.76	24.73	0.99	0.8	7.9
UpperTrib	6738.77	25-yr		813		6851.65	6855.16	6855.16	6856.7	0.055913	9.93	81.84	26.06	0.99	0.96	9.72
UpperTrib	6738.77	50-yr		991		6851.65	6855.62	6855.62	6857.35	0.055409	10.57	93.79	26.69	0.99	1.04	10.64
UpperTrib	6738.77	100-yr		1184		6851.65	6856.08	6856.08	6858.01	0.054705	11.14	106.3	27.34	1	1.14	11.48
UpperTrib	6420.92	2-yr		151		6848.54	6849.37	6849.37	6849.7	0.088125	4.55	33.16	205.19	1.02		3.38
UpperTrib	6420.92	5-yr		360		6848.54	6851.03		6851.1	0.005124	2.06	174.87	286.94	0.29		0.5
UpperTrib	6420.92	10-yr		495		6848.54	6851.97		6851.98	0.000209	0.6	828.14	303.42	0.06		0.04
UpperTrib	6420.92	25-yr		813		6848.54	6853.14		6853.15	0.000176	0.68	1187.95	311.52	0.06		0.04
UpperTrib	6420.92	50-yr		991		6848.54	6853.83		6853.84	0.000153	0.71	1404.33	316.16	0.06		0.04
UpperTrib	6420.92	100-yr		1184		6848.54	6854.25		6854.26	0.000162	0.77	1539.4	319.02	0.06		0.05
UpperTrib	6411.64*	2-yr		151		6848.25	6848.98		6849.01	0.007957	1.37	109.88	177.39	0.31	0.05	0.31
UpperTrib	6411.64*	5-yr		360		6848.25	6851.03		6851.04	0.000313	0.63	574.95	265.94	0.08	0	0.04
UpperTrib	6411.64*	10-yr		495		6848.25	6851.97		6851.98	0.000182	0.6	827.93	273.03	0.06	0	0.03
UpperTrib	6411.64*	25-yr		813		6848.25	6853.14		6853.15	0.00017	0.71	1152.14	281.2	0.06	0	0.04
UpperTrib	6411.64*	50-yr		991		6848.25	6853.83		6853.84	0.000153	0.74	1347.62	285.86	0.06	0	0.04
UpperTrib	6411.64*	100-yr		1184		6848.25	6854.25		6854.27	0.000166	0.81	1469.8	288.74	0.06	0	0.05
UpperTrib	6402.37*	2-yr		151		6847.97	6848.94		6848.96	0.003734	1.11	135.58	169.98	0.22	0.03	0.19
UpperTrib	6402.37*	5-yr		360		6847.97	6851.03		6851.04	0.00026	0.62	579.58	235.86	0.07	0	0.04
UpperTrib	6402.37*	10-yr		495		6847.97	6851.97		6851.97	0.000171	0.62	804.32	242.78	0.06	0	0.04
UpperTrib	6402.37*	25-yr		813		6847.97	6853.14		6853.15	0.000174	0.74	1093.08	250.94	0.06	0	0.05
UpperTrib	6402.37*	50-yr		991		6847.97	6853.83		6853.84	0.000162	0.78	1267.71	255.65	0.06	0	0.05
UpperTrib	6402.37*	100-yr	0.02	1183.98		6847.97	6854.25		6854.26	0.000178	0.86	1377.61	267.27	0.07	0	0.06
UpperTrib	6393.09*	2-yr		151		6847.69	6848.91		6848.93	0.002087	0.96	156.7	157.69	0.17	0.02	0.13
UpperTrib	6393.09*	5-yr		360		6847.69	6851.03		6851.03	0.000239	0.64	562.79	205.72	0.07	0	0.04
UpperTrib	6393.09*	10-yr		495		6847.69	6851.97		6851.97	0.000174	0.65	759.44	212.73	0.06	0	0.04
UpperTrib	6393.09*	25-yr		813		6847.69	6853.13		6853.14	0.000189	0.8	1012.85	220.84	0.07	0	0.05
UpperTrib	6393.09*	50-yr		991		6847.69	6853.82		6853.83	0.00018	0.85	1166.23	224.63	0.07	0	0.06
UpperTrib	6393.09*	100-yr	0.19	1183.81		6847.69	6854.25		6854.26	0.0002	0.94	1266.12	248.56	0.07	0	0.06
UpperTrib	6383.82*	2-yr		151		6847.4	6848.9		6848.91	0.001424	0.88	172.06	149.5	0.14	0.01	0.1
UpperTrib	6383.82*	5-yr		360		6847.4	6851.02		6851.03	0.000244	0.68	525.77	176.04	0.07	0	0.05
UpperTrib	6383.82*	10-yr		495		6847.4	6851.96		6851.97	0.000192	0.71	694.39	182.74	0.06	0	0.05

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	6383.82*	25-yr		813		6847.4	6853.13		6853.14	0.000219	0.89	911.57	188.95	0.07	0	0.07
UpperTrib	6383.82*	50-yr	0.02	990.98		6847.4	6853.82		6853.83	0.000213	0.95	1043.57	202.82	0.07	0	0.07
UpperTrib	6383.82*	100-yr	0.82	1183.18		6847.4	6854.24		6854.26	0.00024	1.05	1136.73	236.04	0.08	0	0.07
UpperTrib	6374.54*	2-yr		151		6847.11	6848.89		6848.9	0.001102	0.87	174.5	127.75	0.13	0.01	0.09
UpperTrib	6374.54*	5-yr		360		6847.11	6851.02		6851.03	0.000282	0.77	467.57	146.28	0.08	0	0.06
UpperTrib	6374.54*	10-yr		495		6847.11	6851.96		6851.97	0.000233	0.82	607.31	150.9	0.07	0	0.06
UpperTrib	6374.54*	25-yr		813		6847.11	6853.12		6853.14	0.00028	1.03	786.19	156.14	0.08	0	0.09
UpperTrib	6374.54*	50-yr	0.28	990.71	0.01	6847.11	6853.81		6853.83	0.000277	1.11	900.69	199.02	0.09	0	0.08
UpperTrib	6374.54*	100-yr	3.13	1180.32	0.55	6847.11	6854.23		6854.26	0.000314	1.23	1004.78	310.07	0.12	0	0.06
UpperTrib	6365.27*	2-yr		151		6846.83	6848.88		6848.89	0.001124	0.96	156.58	98.81	0.13	0.01	0.11
UpperTrib	6365.27*	5-yr		360		6846.83	6851.01		6851.02	0.000381	0.93	386.99	113.93	0.09	0.01	0.08
UpperTrib	6365.27*	10-yr		495		6846.83	6851.95		6851.97	0.000332	1	495.8	117.83	0.09	0.01	0.09
UpperTrib	6365.27*	25-yr		812.36	0.64	6846.83	6853.11		6853.14	0.000415	1.28	644.72	189.32	0.12	0.01	0.09
UpperTrib	6365.27*	50-yr	3.14	973.58	14.28	6846.83	6853.8		6853.83	0.000398	1.35	854.05	391.45	0.16	0.01	0.05
UpperTrib	6365.27*	100-yr	12.84	1135.84	35.33	6846.83	6854.22		6854.25	0.000429	1.47	1021.64	404.4	0.16	0.01	0.07
UpperTrib	6356.00*	2-yr		151		6846.54	6848.85		6848.88	0.00183	1.27	118.56	70.98	0.17	0.02	0.19
UpperTrib	6356.00*	5-yr		360		6846.54	6850.99		6851.02	0.000697	1.28	282.21	80.48	0.12	0.02	0.15
UpperTrib	6356.00*	10-yr		494.39	0.61	6846.54	6851.93		6851.96	0.000626	1.38	365.46	118.6	0.14	0.01	0.12
UpperTrib	6356.00*	25-yr	1.46	765.15	46.39	6846.54	6853.09		6853.13	0.00069	1.67	654.46	332.11	0.2	0.01	0.08
UpperTrib	6356.00*	50-yr	15.81	869.27	105.91	6846.54	6853.78		6853.82	0.000593	1.68	917.61	398.86	0.18	0.01	0.08
UpperTrib	6356.00*	100-yr	34.02	992.3	157.68	6846.54	6854.2		6854.25	0.000617	1.79	1089.27	415.58	0.18	0.01	0.1
UpperTrib	6346.727	2-yr		86		6846.26	6848.83	6847.6	6848.86	0.00246	1.4	61.32	39.06	0.2	0.05	0.24
UpperTrib	6346.727	5-yr		330		6846.26	6850.93	6848.52	6851	0.002336	2.19	150.92	127.93	0.21	0.05	0.45
UpperTrib	6346.727	10-yr	0.1	426.2	63.71	6846.26	6851.88	6848.98	6851.95	0.001722	2.17	374.45	273.52	0.31	0.06	0.15
UpperTrib	6346.727	25-yr	11.42	557.03	241.55	6846.26	6853.07	6849.67	6853.12	0.001265	2.21	742.97	384.45	0.24	0.08	0.15
UpperTrib	6346.727	50-yr	44.22	591.34	344.44	6846.26	6853.77	6849.99	6853.81	0.00094	2.07	1022.17	409.78	0.18	0.08	0.15
UpperTrib	6346.727	100-yr	76.25	675.88	447.88	6846.26	6854.19	6850.39	6854.24	0.000979	2.21	1199.08	427.93	0.18	0.04	0.17
UpperTrib	6320.979	2-yr	0.25	85.66	0.09	6845.86	6848.79	6846.99	6848.81	0.001183	1.17	74.69	46.45	0.15		0.13
UpperTrib	6320.979	5-yr	3.11	320.04	6.85	6845.86	6850.88	6848.08	6850.95	0.001735	2.23	156.8	76.07	0.19		0.41
UpperTrib	6320.979	10-yr	5.31	471.91	12.78	6845.86	6851.77	6848.49	6851.89	0.00199	2.72	192.15	134.83	0.21		0.58
UpperTrib	6320.979	25-yr	9.33	739.75	60.92	6845.86	6852.86	6849.29	6853.04	0.002584	3.52	314.9	329.67	0.38		0.39
UpperTrib	6320.979	50-yr	11.26	848.5	120.24	6845.86	6853.56	6849.63	6853.74	0.002389	3.63	408.91	391.54	0.35		0.43
UpperTrib	6320.979	100-yr	188.82	758.03	253.14	6845.86	6854.1	6850.03	6854.19	0.001481	3.01	994.85	414.35	0.27		0.22
UpperTrib	6276.979		Bridge													
UpperTrib	6210.5	2-yr		86		6846.08	6847.2	6846.72	6847.29	0.0119	2.37	36.34	39.92	0.41	0.56	0.77

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	6210.5	5-yr		320		6846.08	6848.21	6847.55	6848.52	0.017061	4.46	71.75	50.98	0.55	0.81	2.17
UpperTrib	6210.5	10-yr		490		6846.08	6848.68	6848.01	6849.16	0.020188	5.56	88.08	56.08	0.62	0.97	3.16
UpperTrib	6210.5	25-yr		800		6846.08	6849.3	6848.72	6850.13	0.025731	7.28	109.91	68.09	0.72	1.25	5.02
UpperTrib	6210.5	50-yr		980		6846.08	6849.58	6849.09	6850.62	0.02901	8.18	119.75	82.24	0.78	1.41	6.17
UpperTrib	6210.5	100-yr		1200		6846.08	6849.87	6849.51	6851.2	0.033325	9.25	129.72	171.51	0.85	1.62	7.67
UpperTrib	6158.16*	2-yr		86		6845.77	6846.68		6846.73	0.009026	1.76	48.9	59.9	0.34	0.45	0.46
UpperTrib	6158.16*	5-yr		320		6845.77	6847.57		6847.71	0.011591	2.99	107.1	71.38	0.43	0.57	1.08
UpperTrib	6158.16*	10-yr		490		6845.77	6847.99		6848.19	0.012669	3.53	138.78	76.92	0.46	0.63	1.42
UpperTrib	6158.16*	25-yr		799.94	0.06	6845.77	6848.59		6848.88	0.014154	4.27	187.59	89.14	0.52	0.71	1.85
UpperTrib	6158.16*	50-yr		978.9	1.1	6845.77	6848.88		6849.21	0.014851	4.61	214.71	99.34	0.55	0.75	1.99
UpperTrib	6158.16*	100-yr		1195.26	4.74	6845.77	6849.2		6849.58	0.015508	4.97	248.56	119.77	0.61	0.78	2
UpperTrib	6105.82*	2-yr		86		6845.47	6846.25		6846.28	0.007892	1.5	57.24	80.4	0.31	0.4	0.35
UpperTrib	6105.82*	5-yr		320		6845.47	6847.03		6847.13	0.009714	2.56	125.15	92.44	0.39	0.49	0.82
UpperTrib	6105.82*	10-yr		490		6845.47	6847.42		6847.56	0.010508	3.03	161.8	98.3	0.42	0.53	1.08
UpperTrib	6105.82*	25-yr		799.92	0.08	6845.47	6847.96		6848.17	0.011655	3.68	217.82	111.85	0.46	0.6	1.41
UpperTrib	6105.82*	50-yr		978.96	1.04	6845.47	6848.22		6848.46	0.01223	3.99	248.25	123.44	0.5	0.63	1.53
UpperTrib	6105.82*	100-yr		1195.7	4.3	6845.47	6848.5		6848.79	0.012843	4.3	285.59	137.61	0.53	0.66	1.66
UpperTrib	6053.48*	2-yr		86		6845.17	6845.85		6845.88	0.00746	1.35	63.75	100.94	0.3	0.38	0.29
UpperTrib	6053.48*	5-yr		320		6845.17	6846.56		6846.64	0.008764	2.28	140.19	113.72	0.36	0.45	0.67
UpperTrib	6053.48*	10-yr		490		6845.17	6846.91		6847.02	0.00943	2.71	180.92	119.92	0.39	0.49	0.89
UpperTrib	6053.48*	25-yr		799.72	0.28	6845.17	6847.4		6847.57	0.010438	3.3	243.37	138.65	0.44	0.54	1.14
UpperTrib	6053.48*	50-yr		978.14	1.86	6845.17	6847.63		6847.83	0.01097	3.59	277.48	153.19	0.47	0.57	1.24
UpperTrib	6053.48*	100-yr		1193.73	6.27	6845.17	6847.89		6848.12	0.01158	3.88	319.48	181.27	0.51	0.6	1.27
UpperTrib	6001.15*	2-yr		86		6844.86	6845.47		6845.5	0.006907	1.22	70.28	121.61	0.28	0.36	0.25
UpperTrib	6001.15*	5-yr		320		6844.86	6846.12		6846.19	0.008159	2.09	153.42	135.09	0.34	0.44	0.58
UpperTrib	6001.15*	10-yr		490		6844.86	6846.44		6846.53	0.008836	2.49	197.13	141.6	0.37	0.47	0.77
UpperTrib	6001.15*	25-yr		797.5	2.5	6844.86	6846.88		6847.03	0.009827	3.04	270.69	200.94	0.46	0.51	0.83
UpperTrib	6001.15*	50-yr		970.31	9.69	6844.86	6847.1		6847.26	0.01025	3.29	314.73	214.77	0.48	0.53	0.94
UpperTrib	6001.15*	100-yr		1177.32	22.68	6844.86	6847.33		6847.52	0.010615	3.55	366.75	230	0.49	0.55	1.06
UpperTrib	5948.81*	2-yr		86		6844.56	6845.12		6845.14	0.006644	1.14	75.77	142.56	0.27	0.39	0.22
UpperTrib	5948.81*	5-yr		319.43	0.57	6844.56	6845.69		6845.75	0.008402	1.98	163.52	175.68	0.36	0.44	0.49
UpperTrib	5948.81*	10-yr		485.22	4.78	6844.56	6845.98		6846.06	0.008948	2.35	219.73	217.52	0.41	0.44	0.56
UpperTrib	5948.81*	25-yr		774.78	25.22	6844.56	6846.39		6846.51	0.009351	2.8	316.82	249.79	0.43	0.46	0.74
UpperTrib	5948.81*	50-yr		938.62	41.38	6844.56	6846.59		6846.73	0.009618	3.02	367.25	263.61	0.44	0.47	0.84
UpperTrib	5948.81*	100-yr		1136.15	63.85	6844.56	6846.81		6846.97	0.009754	3.23	428.29	281.72	0.45	0.47	0.92
UpperTrib	5896.477	2-yr		83.41	2.59	6844.25	6844.72	6844.46	6844.74	0.008446	1.15	80.48	195.46	0.31	3.29	0.22

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	5896.477	5-yr		299.61	20.39	6844.25	6845.26		6845.31	0.008081	1.82	200.93	248.8	0.35	3.02	0.41
UpperTrib	5896.477	10-yr		450.75	39.25	6844.25	6845.56		6845.62	0.007655	2.07	277.93	277.02	0.35	2.86	0.48
UpperTrib	5896.477	25-yr		720.07	79.93	6844.25	6845.97		6846.05	0.007574	2.43	404.25	331.75	0.37	2.75	0.58
UpperTrib	5896.477	50-yr		873.04	106.96	6844.25	6846.16		6846.25	0.007744	2.62	469.4	358.65	0.38	2.69	0.63
UpperTrib	5896.477	100-yr		1050.65	149.35	6844.25	6846.39		6846.5	0.007496	2.75	555.86	382.35	0.38	2.72	0.68
UpperTrib	5551.916	2-yr	2.06	71.8	12.14	6840.11	6841.4		6841.44	0.010879	1.86	65.04	123.16	0.42	3.8	0.36
UpperTrib	5551.916	5-yr	17.27	222.72	80.01	6840.11	6842.21		6842.3	0.00951	2.81	194.61	195.4	0.42	3.44	0.59
UpperTrib	5551.916	10-yr	31.52	322.77	135.71	6840.11	6842.64	6841.83	6842.75	0.009002	3.21	294.22	271.99	0.45	3.3	0.61
UpperTrib	5551.916	25-yr	71.24	464.52	264.24	6840.11	6843.18		6843.31	0.008392	3.63	492.1	408.71	0.45	3.08	0.63
UpperTrib	5551.916	50-yr	92.92	527.24	359.83	6840.11	6843.44		6843.56	0.007878	3.75	601.68	447.31	0.43	3.04	0.66
UpperTrib	5551.916	100-yr	117.27	606.38	476.35	6840.11	6843.64		6843.77	0.008327	4.03	690.96	469.35	0.43	2.95	0.76
UpperTrib	5362.949	2-yr		92		6835.82	6837.4		6837.65	0.044951	3.98	23.14	27.67	0.77	1.14	2.33
UpperTrib	5362.949	5-yr		320		6835.82	6838.38		6838.86	0.046295	5.57	57.43	42.27	0.84	1.14	3.89
UpperTrib	5362.949	10-yr		490	0	6835.82	6838.87		6839.45	0.045179	6.16	79.57	50.77	0.87	1.16	4.38
UpperTrib	5362.949	25-yr	0.03	786.96	33.01	6835.82	6839.58	6839.45	6840.23	0.040658	6.59	147.52	125.55	1.05	1.14	2.97
UpperTrib	5362.949	50-yr	0.31	947.65	52.04	6835.82	6839.75	6839.73	6840.53	0.044513	7.3	171.25	151.44	1.18	1.1	3.13
UpperTrib	5362.949	100-yr	2.11	1094.66	103.23	6835.82	6840.08	6840.08	6840.83	0.036523	7.28	231.54	206.85	1.16	0.96	2.55
UpperTrib	5337.60*	2-yr		92		6834.67	6836.26		6836.5	0.045336	3.96	23.2	28.03	0.77	1.15	2.33
UpperTrib	5337.60*	5-yr		320		6834.67	6837.27		6837.72	0.042976	5.4	59.26	43.25	0.81	1.19	3.65
UpperTrib	5337.60*	10-yr		490		6834.67	6837.69	6837.5	6838.29	0.046355	6.22	78.8	49.24	0.87	1.17	4.59
UpperTrib	5337.60*	25-yr		803.47	16.53	6834.67	6838.28	6838.25	6839.09	0.048479	7.28	124.53	92.92	1.1	1.14	4.04
UpperTrib	5337.60*	50-yr	0	955.42	44.58	6834.67	6838.67	6838.54	6839.43	0.041769	7.19	163.42	111.95	1.03	1.14	3.79
UpperTrib	5337.60*	100-yr	0.31	1123.77	75.92	6834.67	6838.93	6838.84	6839.76	0.039124	7.52	195.25	122.53	1.02	1.11	3.88
UpperTrib	5312.26*	2-yr		92		6833.52	6835.11		6835.35	0.045443	3.94	23.35	28.5	0.77	1.16	2.3
UpperTrib	5312.26*	5-yr		320		6833.52	6836.03	6835.9	6836.53	0.051088	5.7	56.11	42.95	0.88	1.13	4.13
UpperTrib	5312.26*	10-yr		489.99	0.01	6833.52	6836.55	6836.35	6837.13	0.045266	6.06	80.9	55.5	0.88	1.21	4.09
UpperTrib	5312.26*	25-yr		804.98	15.02	6833.52	6837.22	6837.04	6837.95	0.040147	6.9	129.67	85.1	0.98	1.2	3.8
UpperTrib	5312.26*	50-yr		974.49	25.51	6833.52	6837.38	6837.33	6838.29	0.047497	7.77	143.05	89.39	1.07	1.16	4.72
UpperTrib	5312.26*	100-yr		1153.18	46.82	6833.52	6837.64	6837.64	6838.64	0.048063	8.18	167.98	97.9	1.08	1.05	5.12
UpperTrib	5286.91*	2-yr		92		6832.37	6833.96		6834.2	0.045925	3.91	23.55	29.3	0.77	1.17	2.28
UpperTrib	5286.91*	5-yr		320		6832.37	6835.02	6834.72	6835.41	0.036733	5.01	63.93	46.43	0.75	1.26	3.13
UpperTrib	5286.91*	10-yr		489.97	0.03	6832.37	6835.31	6835.17	6835.92	0.049855	6.25	78.47	53.8	0.91	1.18	4.5
UpperTrib	5286.91*	25-yr		814.44	5.56	6832.37	6835.83	6835.83	6836.75	0.054854	7.71	110.65	69.59	1.07	0.89	5.41
UpperTrib	5286.91*	50-yr		980.97	19.03	6832.37	6836.25	6836.12	6837.13	0.043233	7.6	142.55	80.41	1	0.72	4.75
UpperTrib	5286.91*	100-yr		1154.05	45.95	6832.37	6836.78	6836.42	6837.56	0.03197	7.22	188.27	92.9	0.88	0.55	4.02
UpperTrib	5261.57*	2-yr		92		6831.21	6832.8		6833.03	0.046021	3.85	23.87	30.31	0.77	1.18	2.24

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	5261.57*	5-yr		320		6831.21	6833.55	6833.55	6834.15	0.068574	6.2	51.64	43.46	1	0.7	5.04
UpperTrib	5261.57*	10-yr		489.79	0.21	6831.21	6834.19		6834.73	0.042253	5.91	83.24	55.7	0.85	0.49	3.91
UpperTrib	5261.57*	25-yr		802.78	17.22	6831.21	6835.41		6835.85	0.018219	5.37	164.98	78.02	0.64	0.31	2.38
UpperTrib	5261.57*	50-yr		963.59	36.41	6831.21	6836.01		6836.41	0.013974	5.21	214.81	89.15	0.58	0.25	2.08
UpperTrib	5261.57*	100-yr	0.43	1133.5	66.07	6831.21	6836.63		6837.01	0.010397	5.07	274.01	97.6	0.52	0.21	1.8
UpperTrib	5236.23*	2-yr		92		6830.06	6831.63		6831.86	0.046688	3.81	24.15	31.53	0.77	0.25	2.21
UpperTrib	5236.23*	5-yr		319.41	0.59	6830.06	6833.24		6833.41	0.011077	3.3	98.16	58.2	0.45	0.16	1.15
UpperTrib	5236.23*	10-yr		484.55	5.45	6830.06	6834.06		6834.24	0.007631	3.41	150.4	68.26	0.4	0.14	1.04
UpperTrib	5236.23*	25-yr	0	793.53	26.46	6830.06	6835.34		6835.54	0.005565	3.64	247.94	85.09	0.37	0.13	1
UpperTrib	5236.23*	50-yr	0.43	954.15	45.42	6830.06	6835.96		6836.16	0.004721	3.73	301.56	89.18	0.35	0.12	0.98
UpperTrib	5236.23*	100-yr	2.27	1129.83	67.9	6830.06	6836.59		6836.81	0.004118	3.83	358.69	90.45	0.33	0.11	1
UpperTrib	5210.887	2-yr		91.99	0.01	6828.91	6831.58	6830.32	6831.61	0.002153	1.23	74.57	53.3	0.18		0.19
UpperTrib	5210.887	5-yr		317.06	2.94	6828.91	6833.19	6831.18	6833.25	0.002145	1.95	169.82	65.69	0.21		0.34
UpperTrib	5210.887	10-yr		481.55	8.45	6828.91	6834.02	6831.57	6834.1	0.002194	2.28	227.41	72.62	0.22		0.42
UpperTrib	5210.887	25-yr	0.33	793.44	26.23	6828.91	6835.3	6832.16	6835.42	0.00214	2.73	326.4	79.61	0.23		0.53
UpperTrib	5210.887	50-yr	1.15	960.91	37.94	6828.91	6835.92	6832.36	6836.05	0.002087	2.93	375.5	80	0.23		0.59
UpperTrib	5210.887	100-yr	2.33	1146.35	51.33	6828.91	6836.55	6832.73	6836.7	0.00204	3.12	426.52	80.4	0.23		0.64
UpperTrib	5184.12		Bridge													
UpperTrib	5159.05	2-yr	2.3	87.1	2.6	6828.89	6831.34	6830.27	6831.38	0.003347	1.8	60.81	49.04	0.28	0.48	0.26
UpperTrib	5159.05	5-yr	26.88	264.98	28.15	6828.89	6832.87	6831.19	6832.98	0.003934	2.95	158.48	73.69	0.33	0.49	0.52
UpperTrib	5159.05	10-yr	53.25	382.04	54.71	6828.89	6833.63	6831.73	6833.78	0.004109	3.46	216.95	79.42	0.33	0.48	0.69
UpperTrib	5159.05	25-yr	111.64	595.58	112.78	6828.89	6834.81	6832.51	6835.02	0.004274	4.19	315.77	87.55	0.34	0.44	0.95
UpperTrib	5159.05	50-yr	146.47	705.94	147.59	6828.89	6835.4	6832.82	6835.63	0.00423	4.47	368.06	91.56	0.34	0.4	1.05
UpperTrib	5159.05	100-yr	190.32	817.11	192.58	6828.89	6836.01	6833.14	6836.26	0.004062	4.68	424.53	94.71	0.32	0.29	1.15
UpperTrib	5120.029	2-yr		92		6828.9	6830.46	6830.45	6830.91	0.073859	5.39	17.05	18.55	0.99	0.46	4.17
UpperTrib	5120.029	5-yr		320		6828.9	6831.92	6831.66	6832.49	0.040382	6.08	52.65	30.27	0.81	0.56	4.29
UpperTrib	5120.029	10-yr		490		6828.9	6832.69	6832.25	6833.3	0.031931	6.23	78.7	36.54	0.75	0.56	4.19
UpperTrib	5120.029	25-yr		820		6828.9	6833.99	6833.11	6834.58	0.021877	6.17	132.82	55.13	0.65	0.47	3.77
UpperTrib	5120.029	50-yr	0.06	999.94		6828.9	6834.67	6833.51	6835.23	0.017319	6	166.78	86.18	0.6	0.42	3.28
UpperTrib	5120.029	100-yr	85.31	1114.47	0.22	6828.9	6835.59	6833.9	6835.97	0.010731	5.16	303.33	170.05	0.66	0.3	1.18
UpperTrib	5091.662	2-yr		92		6827.67	6830.41	6829.1	6830.45	0.003297	1.68	54.91	32.72	0.23		0.33
UpperTrib	5091.662	5-yr		320		6827.67	6831.76	6830.18	6831.92	0.006082	3.21	99.57	33.09	0.33		1.03
UpperTrib	5091.662	10-yr		490		6827.67	6832.5	6830.66	6832.74	0.007248	3.95	123.93	33.29	0.36		1.46
UpperTrib	5091.662	25-yr		820		6827.67	6833.73	6831.44	6834.11	0.008473	4.96	165.18	33.63	0.39		2.14
UpperTrib	5091.662	50-yr		1000		6827.67	6834.37	6831.82	6834.81	0.009821	5.32	188.06	38.96	0.43		2.46
UpperTrib	5091.662	100-yr		1200		6827.67	6835.23	6832.22	6835.67	0.009335	5.31	226	147.92	0.42		2.43

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	5035.56		Culvert													
UpperTrib	4988.302	2-yr		92		6827.67	6830.35	6828.27	6830.36	0.000588	0.99	92.68	48	0.11	0.02	0.1
UpperTrib	4988.302	5-yr		320		6827.67	6831.47	6829.07	6831.56	0.002213	2.43	131.56	50.9	0.22	0.06	0.53
UpperTrib	4988.302	10-yr		490		6827.67	6831.98	6829.52	6832.15	0.003408	3.28	149.23	53.54	0.28	0.08	0.92
UpperTrib	4988.302	25-yr		820		6827.67	6832.64	6830.28	6832.99	0.005957	4.77	171.9	71.33	0.38	0.12	1.85
UpperTrib	4988.302	50-yr		1000		6827.67	6832.91	6830.65	6833.39	0.007401	5.51	181.43	79.23	0.42	0.16	2.42
UpperTrib	4988.302	100-yr		1200		6827.67	6833.18	6831.02	6833.79	0.009044	6.3	190.59	85.11	0.47	0.21	3.11
UpperTrib	4971.81*	2-yr	1.94	89.45	0.62	6828.53	6830.31		6830.34	0.002682	1.41	69.28	50.79	0.21	0.05	0.23
UpperTrib	4971.81*	5-yr	8.75	306.63	4.62	6828.53	6831.39		6831.5	0.004988	2.79	126.06	54.59	0.32	0.09	0.7
UpperTrib	4971.81*	10-yr	12.64	470.82	6.54	6828.53	6831.87		6832.07	0.006564	3.59	154.37	66.5	0.41	0.11	0.93
UpperTrib	4971.81*	25-yr	23.07	776.66	20.26	6828.53	6832.52		6832.87	0.009384	4.88	203.22	86.6	0.55	0.16	1.35
UpperTrib	4971.81*	50-yr	30.38	937.45	32.17	6828.53	6832.78		6833.22	0.010828	5.5	227.28	94.43	0.61	0.19	1.6
UpperTrib	4971.81*	100-yr	39.86	1113.39	46.74	6828.53	6833.04		6833.58	0.012339	6.12	252.86	104.01	0.67	0.21	1.84
UpperTrib	4955.33*	2-yr	1.65	89.91	0.44	6828.25	6830.26		6830.3	0.002937	1.43	68.11	53.57	0.22	0.05	0.23
UpperTrib	4955.33*	5-yr	8.66	306.92	4.41	6828.25	6831.3		6831.42	0.005346	2.8	126.48	59.85	0.33	0.09	0.7
UpperTrib	4955.33*	10-yr	13.45	468.62	7.93	6828.25	6831.76		6831.96	0.006991	3.6	159.18	80.15	0.44	0.12	0.86
UpperTrib	4955.33*	25-yr	29.4	764.5	26.1	6828.25	6832.37		6832.71	0.009899	4.86	215.19	105.4	0.58	0.17	1.25
UpperTrib	4955.33*	50-yr	35.57	925.44	38.99	6828.25	6832.6		6833.04	0.011672	5.51	242.19	125.63	0.67	0.21	1.39
UpperTrib	4955.33*	100-yr	47	1094.93	58.07	6828.25	6832.84		6833.37	0.013292	6.12	273.74	143.93	0.75	0.24	1.57
UpperTrib	4938.84*	2-yr	1.13	90.62	0.26	6827.96	6830.21		6830.24	0.003314	1.47	65.9	56.25	0.24	0.06	0.24
UpperTrib	4938.84*	5-yr	7.65	308.86	3.49	6827.96	6831.2		6831.33	0.005942	2.86	127.95	78.83	0.39	0.1	0.6
UpperTrib	4938.84*	10-yr	16.35	463.69	9.96	6827.96	6831.64		6831.84	0.007489	3.6	167.89	104.15	0.49	0.13	0.75
UpperTrib	4938.84*	25-yr	42.18	743.92	33.9	6827.96	6832.21		6832.54	0.010337	4.79	242.25	155.25	0.65	0.18	1
UpperTrib	4938.84*	50-yr	64.1	885.61	50.29	6827.96	6832.44		6832.83	0.011757	5.34	279.2	172.71	0.7	0.21	1.18
UpperTrib	4938.84*	100-yr	93.73	1035.16	71.11	6827.96	6832.67		6833.13	0.012979	5.86	322.73	198.31	0.75	0.23	1.31
UpperTrib	4922.36*	2-yr	0.49	91.42	0.09	6827.68	6830.15		6830.18	0.003851	1.52	62.64	58.75	0.26	0.07	0.26
UpperTrib	4922.36*	5-yr	9.59	305.87	4.55	6827.68	6831.1		6831.22	0.006483	2.88	136.43	116.54	0.46	0.11	0.47
UpperTrib	4922.36*	10-yr	31.07	444.22	14.71	6827.68	6831.53		6831.71	0.0075	3.49	200.35	168.25	0.54	0.13	0.56
UpperTrib	4922.36*	25-yr	95.28	679.35	45.38	6827.68	6832.1		6832.35	0.009132	4.39	311.56	226.45	0.6	0.16	0.78
UpperTrib	4922.36*	50-yr	134.76	796.56	68.69	6827.68	6832.33		6832.62	0.009965	4.8	365.63	241.6	0.62	0.17	0.94
UpperTrib	4922.36*	100-yr	189.09	909.79	101.11	6827.68	6832.59		6832.9	0.010236	5.11	428.57	252.33	0.61	0.18	1.08
UpperTrib	4905.881	2-yr	0.01	93.99	0	6827.39	6830.07		6830.11	0.004987	1.64	57.6	55.89	0.28	1.63	0.32
UpperTrib	4905.881	5-yr	36.52	276.42	7.07	6827.39	6831.02		6831.11	0.005776	2.63	187.27	196.86	0.44	1.72	0.34
UpperTrib	4905.881	10-yr	85.71	391.65	22.63	6827.39	6831.46		6831.58	0.00614	3.08	283.51	241.7	0.45	1.76	0.45
UpperTrib	4905.881	25-yr	192.24	567.46	70.29	6827.39	6832.05		6832.2	0.006414	3.62	437.81	277.64	0.43	1.81	0.63

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	4905.881	50-yr	245	653.12	101.88	6827.39	6832.29		6832.45	0.006653	3.87	505.87	292.2	0.43	1.84	0.72
UpperTrib	4905.881	100-yr	307.79	748.68	143.53	6827.39	6832.55		6832.72	0.006837	4.12	582.97	306.66	0.43	1.89	0.81
UpperTrib	4751.912	2-yr	0.89	86.18	6.94	6827.34	6828.32	6828.19	6828.49	0.034839	3.43	35.16	68.09	0.81	7.98	1.12
UpperTrib	4751.912	5-yr	14.16	244.07	61.77	6827.34	6829.1	6828.9	6829.39	0.029059	4.92	114.36	143.12	0.85	7.3	1.45
UpperTrib	4751.912	10-yr	30.97	340.05	128.98	6827.34	6829.49	6829.28	6829.82	0.027336	5.52	175.99	176.83	0.82	6.93	1.7
UpperTrib	4751.912	25-yr	48.41	494.31	287.28	6827.34	6829.99	6829.77	6830.39	0.026985	6.38	279.59	229.79	0.8	6.46	2.05
UpperTrib	4751.912	50-yr	63.32	559.52	377.16	6827.34	6830.2	6829.94	6830.61	0.026333	6.66	329.44	244.91	0.78	6.21	2.21
UpperTrib	4751.912	100-yr	82.18	637.54	480.28	6827.34	6830.4	6830.14	6830.84	0.027048	7.07	379.16	265.54	0.78	5.99	2.43
UpperTrib	4351.913	2-yr		94		6817.86	6820.39		6820.51	0.012879	2.78	33.87	26.91	0.44	5.89	0.99
UpperTrib	4351.913	5-yr		320		6817.86	6821.89		6822.1	0.012441	3.71	86.17	43.12	0.46	6.22	1.53
UpperTrib	4351.913	10-yr	0.03	499.85	0.12	6817.86	6822.62		6822.89	0.011907	4.12	121.84	55.2	0.49	6.36	1.62
UpperTrib	4351.913	25-yr	3.22	819.54	7.24	6817.86	6823.56		6823.93	0.010703	4.87	182.82	74.29	0.54	6.39	1.62
UpperTrib	4351.913	50-yr	6.9	977.38	15.73	6817.86	6823.99	6822.52	6824.39	0.010223	5.15	225.71	149.69	0.73	6.57	0.96
UpperTrib	4351.913	100-yr	39.78	1131.84	28.38	6817.86	6824.43		6824.85	0.009471	5.34	305.23	204.7	0.75	6.73	0.88
UpperTrib	3951.913	2-yr		94		6812.77	6814.5	6814.06	6814.62	0.016982	2.82	33.28	31.95	0.49	2.39	1.09
UpperTrib	3951.913	5-yr		320		6812.77	6815.6	6814.94	6815.89	0.019902	4.33	73.95	41.97	0.57	2.59	2.16
UpperTrib	3951.913	10-yr		500		6812.77	6816.11	6815.4	6816.53	0.02216	5.18	96.58	45.28	0.62	2.63	2.9
UpperTrib	3951.913	25-yr		830		6812.77	6817.04	6816.17	6817.53	0.026264	5.63	147.41	69.47	0.68	2.76	3.43
UpperTrib	3951.913	50-yr		999.94	0.06	6812.77	6817.2	6816.61	6817.82	0.03032	6.29	159.16	88.67	0.75	2.57	4.07
UpperTrib	3951.913	100-yr		1199.71	0.3	6812.77	6817.32	6817.02	6818.12	0.037159	7.17	167.84	109.77	0.85	2.15	5.09
UpperTrib	3849.362	2-yr		94		6810.74	6812.07		6812.24	0.033857	3.3	28.48	36.53	0.66	1.03	1.64
UpperTrib	3849.362	5-yr		319.11	0.89	6810.74	6812.94		6813.3	0.032796	4.83	67.4	52.9	0.75	0.88	2.59
UpperTrib	3849.362	10-yr		493.46	6.54	6810.74	6813.44		6813.9	0.029797	5.5	95.88	60.82	0.77	0.86	2.92
UpperTrib	3849.362	25-yr	0.12	803.95	25.93	6810.74	6814.15		6814.77	0.027241	6.43	143.51	73.51	0.8	0.68	3.3
UpperTrib	3849.362	50-yr	1.08	953.35	45.57	6810.74	6814.64		6815.24	0.021052	6.37	181.99	82.87	0.74	0.5	2.87
UpperTrib	3849.362	100-yr	5.72	1111.03	83.25	6810.74	6815.48		6815.97	0.012535	5.79	261.71	110.31	0.64	0.3	1.85
UpperTrib	3822.34*	2-yr		94		6809.61	6810.99		6811.21	0.042927	3.78	24.86	31.03	0.74	1.08	2.14
UpperTrib	3822.34*	5-yr		319.9	0.1	6809.61	6812.05		6812.43	0.03189	4.95	64.83	45.02	0.73	1.02	2.84
UpperTrib	3822.34*	10-yr		498.41	1.59	6809.61	6812.49		6813.04	0.033751	5.93	85.71	48.56	0.79	0.88	3.68
UpperTrib	3822.34*	25-yr	0.06	820.12	9.82	6809.61	6813.46		6814.09	0.023511	6.39	136.56	57.7	0.73	0.56	3.42
UpperTrib	3822.34*	50-yr	0.48	977.07	22.46	6809.61	6814.2		6814.75	0.015229	6.01	183.16	70.08	0.65	0.37	2.44
UpperTrib	3822.34*	100-yr	3.16	1141.35	55.49	6809.61	6815.24		6815.67	0.008769	5.42	270.78	104.39	0.58	0.22	1.4
UpperTrib	3795.32*	2-yr		94		6808.48	6809.9	6809.66	6810.13	0.037178	3.87	24.32	26.28	0.71	1.26	2.13
UpperTrib	3795.32*	5-yr		320		6808.48	6810.89		6811.4	0.041951	5.74	55.72	36.26	0.82	0.94	3.98
UpperTrib	3795.32*	10-yr		499.47	0.53	6808.48	6811.6		6812.16	0.031087	5.98	84.21	43.29	0.76	0.67	3.72
UpperTrib	3795.32*	25-yr	0.09	821.17	8.73	6808.48	6813.03		6813.53	0.014632	5.72	150.74	49.21	0.57	0.35	2.71

Falcon DBPS

Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	3795.32*	50-yr	0.46	984.74	14.8	6808.48	6813.92		6814.37	0.009595	5.42	197.98	58.83	0.52	0.25	1.94
UpperTrib	3795.32*	100-yr	2.14	1159.37	38.49	6808.48	6815.07		6815.45	0.00604	5.04	286.1	103.55	0.53	0.16	1.02
UpperTrib	3768.30*	2-yr		94		6807.34	6808.53	6808.42	6808.87	0.056378	4.73	19.87	21.57	0.87	1.16	3.2
UpperTrib	3768.30*	5-yr		320		6807.34	6810.05		6810.46	0.026414	5.17	61.91	33.06	0.67	0.48	3.02
UpperTrib	3768.30*	10-yr		499.29	0.71	6807.34	6811.11		6811.49	0.015725	4.99	101.18	40.68	0.56	0.33	2.38
UpperTrib	3768.30*	25-yr	0.14	821.17	8.68	6807.34	6812.8		6813.18	0.008123	4.96	174.28	45	0.44	0.21	1.85
UpperTrib	3768.30*	50-yr	0.44	985.99	13.57	6807.34	6813.77		6814.13	0.005945	4.86	219.04	50.3	0.41	0.16	1.51
UpperTrib	3768.30*	100-yr	1.61	1168.96	29.43	6807.34	6814.96		6815.29	0.004231	4.69	306.39	111.53	0.49	0.12	0.7
UpperTrib	3741.28*	2-yr		94		6806.21	6807.47		6807.71	0.031212	3.91	24.07	22.14	0.66	0.28	2.07
UpperTrib	3741.28*	5-yr		320		6806.21	6809.78		6809.99	0.008403	3.63	88.04	33	0.39	0.17	1.34
UpperTrib	3741.28*	10-yr	0	498.56	1.44	6806.21	6810.92		6811.16	0.006489	3.92	129.61	38.2	0.37	0.15	1.29
UpperTrib	3741.28*	25-yr	0.18	820.68	9.14	6806.21	6812.68		6812.97	0.004721	4.35	199.46	41.13	0.35	0.12	1.29
UpperTrib	3741.28*	50-yr	0.42	983.69	15.89	6806.21	6813.67		6813.97	0.003869	4.4	241.03	42.78	0.32	0.1	1.21
UpperTrib	3741.28*	100-yr	1.29	1169.44	29.27	6806.21	6814.88		6815.17	0.003072	4.4	336.94	135.28	0.49	0.08	0.46
UpperTrib	3714.26	2-yr		94		6805.08	6807.38	6805.96	6807.43	0.002986	1.79	52.62	25.81	0.22		0.36
UpperTrib	3714.26	5-yr	0	320		6805.08	6809.7	6806.99	6809.82	0.002957	2.71	118.3	33.45	0.24		0.66
UpperTrib	3714.26	10-yr	0.02	499.98		6805.08	6810.84	6807.63	6811.01	0.003124	3.29	152.23	34.98	0.26		0.87
UpperTrib	3714.26	25-yr	0.2	829.8		6805.08	6812.59	6808.59	6812.85	0.003215	4.06	205.17	37.34	0.27		1.14
UpperTrib	3714.26	50-yr	0.4	999.6		6805.08	6813.59	6808.98	6813.87	0.002975	4.27	235.34	38.68	0.27		1.18
UpperTrib	3714.26	100-yr	1.07	1198.93		6805.08	6814.78	6809.43	6815.09	0.00267	4.45	272.65	138.59	0.27		1.16
UpperTrib	3667.171		Culvert													
UpperTrib	3619.655	2-yr		94		6804.58	6807.28	6805.45	6807.32	0.001969	1.6	58.69	23.46	0.18	1.07	0.27
UpperTrib	3619.655	5-yr		320		6804.58	6809.48	6806.55	6809.6	0.003241	2.83	113.24	26.27	0.24	1.76	0.72
UpperTrib	3619.655	10-yr		500		6804.58	6810.47	6807.21	6810.67	0.004125	3.58	139.57	27.55	0.28	2.15	1.1
UpperTrib	3619.655	25-yr		825.13	4.87	6804.58	6811.81	6808.23	6812.14	0.00591	4.64	188.02	49	0.42	2.8	1.21
UpperTrib	3619.655	50-yr		983.6	16.4	6804.58	6812.36	6808.68	6812.75	0.00659	5.07	217.93	60.1	0.47	3.04	1.3
UpperTrib	3619.655	100-yr		1161.38	38.62	6804.58	6812.91	6809.14	6813.37	0.007423	5.52	254.51	72.95	0.51	3.3	1.43
UpperTrib	3385.78*	2-yr		94		6803.48	6806.2		6806.25	0.003526	1.83	51.37	28.01	0.24	2.85	0.39
UpperTrib	3385.78*	5-yr		306.13	13.87	6803.48	6807.7		6807.84	0.005774	3.05	127.74	86	0.43	3.81	0.52
UpperTrib	3385.78*	10-yr	0	444.08	55.92	6803.48	6808.34		6808.52	0.006642	3.54	197.48	117.15	0.45	4.09	0.68
UpperTrib	3385.78*	25-yr	1.2	681.01	147.79	6803.48	6809.1		6809.35	0.007506	4.36	293.26	156.21	0.51	4.36	0.87
UpperTrib	3385.78*	50-yr	7.74	799.76	192.49	6803.48	6809.43		6809.71	0.007876	4.71	355.11	203.28	0.57	4.47	0.85
UpperTrib	3385.78*	100-yr	22.58	921	256.42	6803.48	6809.75		6810.06	0.008165	5.04	423.65	224.36	0.57	4.55	0.95
UpperTrib	3151.913	2-yr		49.14	44.86	6802.38	6803.36		6803.39	0.018745	1.88	79.03	157.01	0.37	5.11	0.59
UpperTrib	3151.913	5-yr	0.66	163.71	155.63	6802.38	6803.95		6804.03	0.016601	2.94	174.32	164.77	0.39	5.16	1.09

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	3151.913	10-yr	2.26	253.98	243.76	6802.38	6804.3		6804.41	0.015997	3.46	233.15	169.63	0.41	5.28	1.37
UpperTrib	3151.913	25-yr	7.5	418.38	404.12	6802.38	6804.83		6805	0.015498	4.19	328.09	202.91	0.45	5.48	1.56
UpperTrib	3151.913	50-yr	13.58	500.36	486.05	6802.38	6805.06		6805.25	0.015402	4.49	379.28	241.41	0.49	5.57	1.51
UpperTrib	3151.913	100-yr	30.83	591.45	577.72	6802.38	6805.3		6805.51	0.015285	4.79	439.67	257.63	0.49	5.66	1.63
UpperTrib	2744.492	2-yr	42.34	40.29	11.37	6797.24	6798.26		6798.28	0.008953	1.79	115.65	247.35	0.32	4.87	0.26
UpperTrib	2744.492	5-yr	143.52	100.71	75.78	6797.24	6798.83		6798.87	0.00995	2.67	302.63	398.29	0.34	5.08	0.47
UpperTrib	2744.492	10-yr	214.43	137.02	148.55	6797.24	6799.08		6799.13	0.010659	3.08	404.13	407.41	0.33	5.13	0.66
UpperTrib	2744.492	25-yr	341.3	198.67	290.03	6797.24	6799.44		6799.51	0.011662	3.67	553.54	422.28	0.33	5.16	0.95
UpperTrib	2744.492	50-yr	405.85	228.92	365.23	6797.24	6799.6		6799.68	0.012078	3.92	620.25	429.01	0.33	5.17	1.09
UpperTrib	2744.492	100-yr	481.61	263.75	454.63	6797.24	6799.77		6799.85	0.012531	4.2	692.74	436.73	0.33	5.19	1.24
UpperTrib	2393.844	2-yr	30.99	25.54	37.47	6792.97	6793.4		6793.42	0.02441	1.3	107	343.18	0.3	6.24	0.48
UpperTrib	2393.844	5-yr	80.39	111.39	128.22	6792.97	6793.76		6793.79	0.023066	2.25	249.23	430.31	0.36	5.99	0.83
UpperTrib	2393.844	10-yr	123.15	174.63	202.22	6792.97	6793.95		6794.01	0.021347	2.63	335.43	437.23	0.37	5.87	1.02
UpperTrib	2393.844	25-yr	201.39	290.12	338.49	6792.97	6794.27		6794.34	0.019192	3.12	473.98	448.12	0.37	5.71	1.27
UpperTrib	2393.844	50-yr	241.76	349.36	408.88	6792.97	6794.41		6794.49	0.018437	3.33	538.89	453.13	0.37	5.65	1.37
UpperTrib	2393.844	100-yr	287.82	422.18	490.01	6792.97	6794.58		6794.67	0.017727	3.55	614.79	466.63	0.38	5.6	1.46
UpperTrib	2000	2-yr	0.88	77.87	15.25	6785.7	6787.14		6787.19	0.011098	1.96	77.43	218.83	0.53	0.84	0.25
UpperTrib	2000	5-yr	22.42	190.44	107.14	6785.7	6787.73		6787.81	0.010764	2.77	219.54	250.09	0.42	0.84	0.59
UpperTrib	2000	10-yr	45.11	269.34	185.55	6785.7	6788.05		6788.14	0.010964	3.2	300.94	262.07	0.41	0.83	0.79
UpperTrib	2000	25-yr	96.53	403.87	329.59	6785.7	6788.51		6788.63	0.011321	3.8	423.37	272.88	0.4	0.82	1.1
UpperTrib	2000	50-yr	125.7	470.32	403.98	6785.7	6788.71		6788.85	0.011454	4.06	478.62	276.39	0.4	0.83	1.24
UpperTrib	2000	100-yr	161.13	547.27	491.6	6785.7	6788.92		6789.08	0.011643	4.33	538.4	280.19	0.4	0.85	1.4
UpperTrib	1923.28*	2-yr	0.03	85.85	8.12	6784.92	6786.28		6786.34	0.010864	2.02	65.41	176.42	0.56	0.15	0.25
UpperTrib	1923.28*	5-yr	21.91	208.16	89.93	6784.92	6786.88		6786.97	0.011071	2.9	216.41	277.63	0.48	0.42	0.54
UpperTrib	1923.28*	10-yr	47.67	285.78	166.55	6784.92	6787.22		6787.32	0.010575	3.24	314.65	304.62	0.44	0.52	0.68
UpperTrib	1923.28*	25-yr	98.88	412.78	318.34	6784.92	6787.69		6787.81	0.010175	3.71	464.48	329.21	0.41	0.62	0.9
UpperTrib	1923.28*	50-yr	131.8	473.59	394.6	6784.92	6787.89		6788.02	0.010169	3.92	529.82	333.17	0.4	0.64	1.01
UpperTrib	1923.28*	100-yr	171.63	544.36	484.01	6784.92	6788.09		6788.23	0.010355	4.17	597.54	336.78	0.4	0.68	1.15
UpperTrib	1846.57*	2-yr	7.07	60.51	26.42	6784.13	6786.18		6786.19	0.000609	0.74	257.98	308.91	0.12	0.02	0.03
UpperTrib	1846.57*	5-yr	32.21	180.56	107.22	6784.13	6786.52		6786.55	0.002969	1.84	364.35	332	0.24	0.1	0.2
UpperTrib	1846.57*	10-yr	59.28	263.09	177.63	6784.13	6786.74		6786.79	0.004417	2.41	441.43	346.99	0.28	0.18	0.35
UpperTrib	1846.57*	25-yr	109.49	403.4	317.12	6784.13	6787.11		6787.19	0.006295	3.18	573.61	388.74	0.34	0.3	0.58
UpperTrib	1846.57*	50-yr	144.66	461.85	393.49	6784.13	6787.29		6787.39	0.006563	3.4	646.15	392.89	0.34	0.34	0.67
UpperTrib	1846.57*	100-yr	185.34	533.06	481.6	6784.13	6787.45		6787.56	0.007268	3.72	708.93	395.84	0.35	0.4	0.81
UpperTrib	1769.85*	2-yr	12.36	46.53	35.11	6783.35	6786.17		6786.17	0.000088	0.37	556.25	386.01	0.04	0	0.01
UpperTrib	1769.85*	5-yr	47.26	148.4	124.34	6783.35	6786.44		6786.44	0.000643	1.08	660.05	401.6	0.11	0.03	0.07

Falcon DBPS

Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	1769.85*	10-yr	72.28	227.11	200.61	6783.35	6786.6		6786.61	0.001255	1.56	727.13	434.23	0.15	0.06	0.13
UpperTrib	1769.85*	25-yr	135.78	355.99	338.22	6783.35	6786.85		6786.89	0.002345	2.25	840.17	447.68	0.2	0.11	0.27
UpperTrib	1769.85*	50-yr	173.88	418.11	408.01	6783.35	6787		6787.05	0.002785	2.53	908.22	457.72	0.22	0.14	0.34
UpperTrib	1769.85*	100-yr	214.9	490.83	494.26	6783.35	6787.1		6787.16	0.003486	2.88	953.91	459.66	0.24	0.18	0.45
UpperTrib	1693.141	2-yr	15.31	39.12	39.57	6782.57	6786.17	6783.62	6786.17	0.000023	0.23	944.51	487.45	0.02		0
UpperTrib	1693.141	5-yr	57.45	126.63	135.92	6782.57	6786.41	6784.94	6786.42	0.000192	0.7	1065.46	497.49	0.06		0.03
UpperTrib	1693.141	10-yr	93.87	192.89	213.24	6782.57	6786.55	6785.73	6786.56	0.000395	1.03	1134.11	503.18	0.08		0.06
UpperTrib	1693.141	25-yr	165.16	308.98	355.86	6782.57	6786.76	6786.01	6786.78	0.000849	1.56	1241.17	517.36	0.12		0.13
UpperTrib	1693.141	50-yr	206.59	367.56	425.85	6782.57	6786.89	6786.01	6786.91	0.001084	1.8	1307.42	526.03	0.13		0.17
UpperTrib	1693.141	100-yr	250.96	435.96	513.08	6782.57	6786.95	6786.01	6786.98	0.00145	2.11	1341.36	527.35	0.15		0.23
UpperTrib	1661.946		Culvert													
UpperTrib	1631.806	2-yr		94		6780.57	6782.29	6782.29	6782.99	0.03272	6.7	14.04	154.31	1	2.62	2.84
UpperTrib	1631.806	5-yr		320		6780.57	6784.07	6784.07	6785.64	0.024851	10.07	31.79	429.56	0.99	2.84	4.89
UpperTrib	1631.806	10-yr	142.59	197.39	160.03	6780.57	6784.39	6784.39	6784.4	0.000498	1.35	727.94	487.25	0.14	0.25	0.05
UpperTrib	1631.806	25-yr	236.69	327.66	265.64	6780.57	6784.39	6784.39	6784.43	0.001372	2.24	727.94	487.25	0.23	0.47	0.13
UpperTrib	1631.806	50-yr	285.17	394.77	320.05	6780.57	6784.39	6784.39	6784.44	0.001992	2.7	727.94	487.25	0.27	0.54	0.19
UpperTrib	1631.806	100-yr	342.21	473.73	384.06	6780.57	6784.39	6784.39	6784.47	0.002868	3.24	727.94	487.25	0.33	0.68	0.27
UpperTrib	1489.711	2-yr	0.08	93.03	0.89	6777.68	6779.21		6779.3	0.009759	2.44	40.13	66.27	0.55	5.78	0.37
UpperTrib	1489.711	5-yr	7.09	280.68	32.23	6777.68	6779.9	6779.52	6780.11	0.010227	3.86	111.22	163.01	0.77	6.06	0.44
UpperTrib	1489.711	10-yr	18.48	394.26	87.26	6777.68	6780.28		6780.51	0.009263	4.29	195.74	294.9	0.83	6.25	0.38
UpperTrib	1489.711	25-yr	37.94	533.77	258.29	6777.68	6780.66		6780.91	0.009076	4.81	314.95	324.43	0.71	6.29	0.55
UpperTrib	1489.711	50-yr	51.74	584.64	363.62	6777.68	6780.92	6780.58	6781.14	0.007547	4.72	403.28	365.95	0.63	6.46	0.52
UpperTrib	1489.711	100-yr	65.3	658.31	476.38	6777.68	6781.08	6780.7	6781.31	0.007822	5	460.68	378.04	0.62	6.43	0.59
UpperTrib	1199.006	2-yr		1.25	92.75	6773.22	6773.5		6773.51	0.007219	0.67	96.72	208.08	0.25	5.93	0.21
UpperTrib	1199.006	5-yr		22.7	297.3	6773.22	6774.01		6774.04	0.007499	1.44	223.52	285.15	0.28	5.62	0.37
UpperTrib	1199.006	10-yr		45.44	454.56	6773.22	6774.22		6774.27	0.008723	1.85	287.36	324.18	0.33	5.41	0.48
UpperTrib	1199.006	25-yr	0.02	99.34	730.64	6773.22	6774.55		6774.62	0.009022	2.45	401.96	363.54	0.35	5.29	0.62
UpperTrib	1199.006	50-yr	0.06	123.01	876.93	6773.22	6774.59		6774.68	0.011781	2.89	416.61	367.98	0.4	5.2	0.83
UpperTrib	1199.006	100-yr	0.65	168.37	1031	6773.22	6774.79		6774.88	0.011148	3.23	489.74	386.95	0.39	5.25	0.88
UpperTrib	800	2-yr	0.13	93.87		6766.17	6767.32	6767.32	6767.58	0.045915	4.08	23.23	48.96	1.04	0.67	1.36
UpperTrib	800	5-yr	16.84	302.15	1.01	6766.17	6767.93	6767.93	6768.41	0.034683	5.73	62.47	77.15	1.09	1.89	1.75
UpperTrib	800	10-yr	43.42	443.75	12.83	6766.17	6768.37	6768.37	6768.86	0.023399	5.94	109.63	163.66	1.21	1.97	0.98
UpperTrib	800	25-yr	94.45	637.3	98.24	6766.17	6768.8	6768.8	6769.33	0.020839	6.63	206.43	284.66	1.22	2.28	0.94
UpperTrib	800	50-yr	123.83	670.99	205.18	6766.17	6769.09	6769.09	6769.49	0.014324	6.05	313.59	394.61	1	2.22	0.71
UpperTrib	800	100-yr	150.63	757.08	292.28	6766.17	6769.2	6769.2	6769.64	0.015556	6.5	356.77	402.03	0.99	2.58	0.86

Falcon DBPS

Middle Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
UpperTrib	400	2-yr	2.1	87.42	4.47	6758.55	6760.77	6759.49	6760.78	0.00045	0.88	124.84	107.07	0.14		0.03
UpperTrib	400	5-yr	14.55	279.52	25.93	6758.55	6761.37	6760.09	6761.43	0.001626	2.05	196.24	131.09	0.28		0.15
UpperTrib	400	10-yr	31.75	416.19	52.06	6758.55	6761.84	6760.43	6761.92	0.001911	2.52	262.45	150.81	0.31		0.21
UpperTrib	400	25-yr	70.47	657.29	102.24	6758.55	6762.45	6760.9	6762.58	0.002422	3.25	364.59	190.82	0.37		0.29
UpperTrib	400	50-yr	94.91	785.21	119.88	6758.55	6762.67	6761.12	6762.84	0.002792	3.64	410.26	226.23	0.43		0.32
UpperTrib	400	100-yr	122.21	929.51	148.29	6758.55	6762.83	6761.34	6763.04	0.003375	4.13	449.02	258.59	0.49		0.37

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
UpperTrib	10706 Culvert #1	2-yr	6920.12	6920.12	6920.15	6920.12	6920.01	9.58	21.42	3.57	6.22	5.58
UpperTrib	10706 Culvert #1	5-yr	6920.3	6920.29	6920.26	6920.3	6920.01	10.43	60.82	3.34	6.59	6.07
UpperTrib	10706 Culvert #1	10-yr	6920.39	6920.37	6920.39	6920.39	6920.01	10.7	95.73	3.14	6.23	6.23
UpperTrib	10706 Culvert #1	25-yr	6920.58	6920.54	6920.58	6920.58	6920.01	10.67	190.87	3.1	6.21	6.21
UpperTrib	10706 Culvert #1	50-yr	6920.71	6920.64	6920.75	6920.71	6920.01	10.09	267.42	2.89	5.87	5.87
UpperTrib	10706 Culvert #1	100-yr	6920.82	6920.72	6920.81	6920.82	6920.01	9.53	350.25	2.64	5.55	5.55
UpperTrib	7238 Culvert #2	2-yr	6875.57	6875.53	6875.27	6875.57	6880.01	120.52		21.33	6.87	10.75
UpperTrib	7238 Culvert #1	2-yr	6875.57	6875.53	6875.36	6875.56	6880.01	29.48		21.33	4.55	1.11
UpperTrib	7238 Culvert #2	5-yr	6877.05	6877	6876.8	6877.05	6880.01	235.3		22.86	8.76	12.87
UpperTrib	7238 Culvert #1	5-yr	6877.05	6877	6876.76	6877.07	6880.01	114.7		22.86	6.76	3.89
UpperTrib	7238 Culvert #2	10-yr	6877.95	6877.9	6877.89	6877.95	6880.01	308.5		23.68	9.93	13.77
UpperTrib	7238 Culvert #1	10-yr	6877.95	6877.9	6877.66	6877.96	6880.01	181.5		23.68	7.91	13.2
UpperTrib	7238 Culvert #2	25-yr	6880.09	6880.08	6880.09	6879.38	6880.01	416.57	40.7	24.92	11.05	14.64
UpperTrib	7238 Culvert #1	25-yr	6880.09	6880.08	6880.09	6879.96	6880.01	342.73	40.7	24.92	10.52	15.48
UpperTrib	7238 Culvert #2	50-yr	6880.28	6880.27	6880.27	6879.49	6880.01	424.25	188.4	24.66	11.25	14.66
UpperTrib	7238 Culvert #1	50-yr	6880.28	6880.27	6880.58	6880.29	6880.01	367.35	188.4	24.66	9.74	9.74
UpperTrib	7238 Culvert #2	100-yr	6880.41	6880.41	6880.41	6879.58	6880.01	430.31	392.71	24.33	11.41	14.67
UpperTrib	7238 Culvert #1	100-yr	6880.41	6880.41	6880.78	6880.42	6880.01	376.99	392.71	24.33	10	10
UpperTrib	5035.56 Culvert #1	2-yr	6830.45	6830.41	6829.37	6830.45	6836.01	46		0.06	1.73	1.76
UpperTrib	5035.56 Culvert #2	2-yr	6830.45	6830.41	6829.37	6830.45	6836.01	46		0.06	1.73	1.76
UpperTrib	5035.56 Culvert #1	5-yr	6831.93	6831.76	6830.97	6831.93	6836.01	160		0.29	3.89	4.04
UpperTrib	5035.56 Culvert #2	5-yr	6831.93	6831.76	6830.97	6831.93	6836.01	160		0.29	3.89	4.04
UpperTrib	5035.56 Culvert #1	10-yr	6832.75	6832.5	6831.92	6832.75	6836.01	245		0.51	5.08	5.35
UpperTrib	5035.56 Culvert #2	10-yr	6832.75	6832.5	6831.92	6832.75	6836.01	245		0.51	5.08	5.35
UpperTrib	5035.56 Culvert #1	25-yr	6834.11	6833.73	6833.51	6834.11	6836.01	410		1.09	7.01	7.65
UpperTrib	5035.56 Culvert #2	25-yr	6834.11	6833.73	6833.51	6834.11	6836.01	410		1.09	7.01	7.65
UpperTrib	5035.56 Culvert #1	50-yr	6834.81	6834.37	6834.3	6834.81	6836.01	500		1.46	7.88	8.78
UpperTrib	5035.56 Culvert #2	50-yr	6834.81	6834.37	6834.3	6834.81	6836.01	500		1.46	7.88	8.78
UpperTrib	5035.56 Culvert #1	100-yr	6835.67	6835.23	6835.61	6835.67	6836.01	600		2.05	9.09	9.98
UpperTrib	5035.56 Culvert #2	100-yr	6835.67	6835.23	6835.61	6835.67	6836.01	600		2.05	9.09	9.98
UpperTrib	3667.171 Culvert #1	2-yr	6807.43	6807.38	6806.93	6807.43	6816.01	94		0.1	2.8	2.14
UpperTrib	3667.171 Culvert #1	5-yr	6809.82	6809.7	6808.72	6809.82	6816.01	320		0.23	4.14	3.64
UpperTrib	3667.171 Culvert #1	10-yr	6811.01	6810.84	6809.85	6811.01	6816.01	500		0.37	5.15	4.64
UpperTrib	3667.171 Culvert #1	25-yr	6812.86	6812.59	6811.64	6812.86	6816.01	830		0.78	6.55	6.55
UpperTrib	3667.171 Culvert #1	50-yr	6813.88	6813.59	6812.48	6813.88	6816.01	1000		1.23	7.89	7.89
UpperTrib	3667.171 Culvert #1	100-yr	6815.1	6814.78	6813.79	6815.1	6816.01	1200		1.87	9.47	9.47
UpperTrib	1661.946 Culvert #1	2-yr	6786.17	6786.17	6786.16	6786.17	6786.01	18.24	76.32	3.88	5.81	7.04

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
UpperTrib	1661.946 Culvert #1	5-yr	6786.42	6786.41	6786.41	6786.42	6786.01	13.24	304.57	2.35	4.22	4.22
UpperTrib	1661.946 Culvert #1	10-yr	6786.56	6786.55	6786.56	6786.56	6786.01	18.97	477.39	2.16	6.04	6.06
UpperTrib	1661.946 Culvert #1	25-yr	6786.78	6786.76	6786.77	6786.78	6786.01	19.92	809.65	2.37	6.34	6.36
UpperTrib	1661.946 Culvert #1	50-yr	6786.91	6786.89	6786.88	6786.91	6786.01	20.47	979.53	2.5	6.51	6.53
UpperTrib	1661.946 Culvert #1	100-yr	6786.98	6786.95	6786.98	6786.98	6786.01	20.76	1176.9	2.56	6.61	6.63

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
UpperTrib	6346.727	2-yr	6848.86	6848.83	6847.6	0.04	0	39.06		86		1.4
UpperTrib	6346.727	5-yr	6851	6850.93	6848.52	0.05	0	127.93		330		2.19
UpperTrib	6346.727	10-yr	6851.95	6851.88	6848.98	0.05	0.01	273.52	0.1	426.2	63.71	2.17
UpperTrib	6346.727	25-yr	6853.12	6853.07	6849.67	0.05	0.04	384.45	11.42	557.03	241.55	2.21
UpperTrib	6346.727	50-yr	6853.81	6853.77	6849.99	0.04	0.04	409.78	44.22	591.34	344.44	2.07
UpperTrib	6346.727	100-yr	6854.24	6854.19	6850.39	0.03	0.01	427.93	76.25	675.88	447.88	2.21
UpperTrib	6320.979	2-yr	6848.81	6848.79	6846.99			46.45	0.25	85.66	0.09	1.17
UpperTrib	6320.979	5-yr	6850.95	6850.88	6848.08			76.07	3.11	320.04	6.85	2.23
UpperTrib	6320.979	10-yr	6851.89	6851.77	6848.49			134.83	5.31	471.91	12.78	2.72
UpperTrib	6320.979	25-yr	6853.04	6852.86	6849.29			329.67	9.33	739.75	60.92	3.52
UpperTrib	6320.979	50-yr	6853.74	6853.56	6849.63			391.54	11.26	848.5	120.24	3.63
UpperTrib	6320.979	100-yr	6854.19	6854.1	6850.03			414.35	188.82	758.03	253.14	3.01
UpperTrib	6276.979BR U	2-yr	6848.78	6848.71	6847.38			21.59		86		2.11
UpperTrib	6276.979BR U	5-yr	6850.92	6850.72	6848.78			27.04		330		3.62
UpperTrib	6276.979BR U	10-yr	6851.89	6851.42	6849.41					490		4.45
UpperTrib	6276.979BR U	25-yr	6853.04	6852.86	6850.4			30.85		809.47	0.53	7.35
UpperTrib	6276.979BR U	50-yr	6853.74	6853.56	6850.8			66.44		910.96	69.04	8.28
UpperTrib	6276.979BR U	100-yr	6854.19	6854.1	6851.32			251.95		975.17	224.73	8.37
UpperTrib	6276.979BR D	2-yr	6848.13	6848	6847.2			18.88		86		2.94
UpperTrib	6276.979BR D	5-yr	6849.92	6849.48	6848.61			24.45		330		5.38
UpperTrib	6276.979BR D	10-yr	6850.44	6849.27	6849.27			23.69		490		8.68
UpperTrib	6276.979BR D	25-yr	6853.03	6852.86	6850.28			0.35		809.47	0.53	7.16
UpperTrib	6276.979BR D	50-yr	6853.74	6853.56	6850.58			64.04		910.96	69.04	8.06
UpperTrib	6276.979BR D	100-yr	6854.19	6854.1	6851.18			246.7		975.17	224.73	7.89
UpperTrib	6210.5	2-yr	6847.29	6847.2	6846.72	0.54	0.02	39.92		86		2.37
UpperTrib	6210.5	5-yr	6848.52	6848.21	6847.55	0.73	0.09	50.98		320		4.46
UpperTrib	6210.5	10-yr	6849.16	6848.68	6848.01	0.83	0.14	56.08		490		5.56
UpperTrib	6210.5	25-yr	6850.13	6849.3	6848.72	0.98	0.27	68.09		800		7.28
UpperTrib	6210.5	50-yr	6850.62	6849.58	6849.09	1.06	0.36	82.24		980		8.18
UpperTrib	6210.5	100-yr	6851.2	6849.87	6849.51	1.15	0.47	171.51		1200		9.25
UpperTrib	6158.16*	2-yr	6846.73	6846.68		0.44	0.01	59.9		86		1.76
UpperTrib	6158.16*	5-yr	6847.71	6847.57		0.55	0.02	71.38		320		2.99
UpperTrib	6158.16*	10-yr	6848.19	6847.99		0.6	0.03	76.92		490		3.53
UpperTrib	6158.16*	25-yr	6848.88	6848.59		0.67	0.04	89.14		799.94	0.06	4.27
UpperTrib	6158.16*	50-yr	6849.21	6848.88		0.7	0.04	99.34		978.9	1.1	4.61
UpperTrib	6158.16*	100-yr	6849.58	6849.2		0.74	0.05	119.77		1195.26	4.74	4.97

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
UpperTrib	5236.23*	2-yr	6831.86	6831.63		0.15	0.1	31.53		92		3.81
UpperTrib	5236.23*	5-yr	6833.41	6833.24		0.1	0.06	58.2		319.41	0.59	3.3
UpperTrib	5236.23*	10-yr	6834.24	6834.06		0.09	0.05	68.26		484.55	5.45	3.41
UpperTrib	5236.23*	25-yr	6835.54	6835.34		0.08	0.04	85.09	0	793.53	26.46	3.64
UpperTrib	5236.23*	50-yr	6836.16	6835.96		0.08	0.04	89.18	0.43	954.15	45.42	3.73
UpperTrib	5236.23*	100-yr	6836.81	6836.59		0.07	0.04	90.45	2.27	1129.83	67.9	3.83
UpperTrib	5210.887	2-yr	6831.61	6831.58	6830.32			53.3		91.99	0.01	1.23
UpperTrib	5210.887	5-yr	6833.25	6833.19	6831.18			65.69		317.06	2.94	1.95
UpperTrib	5210.887	10-yr	6834.1	6834.02	6831.57			72.62		481.55	8.45	2.28
UpperTrib	5210.887	25-yr	6835.42	6835.3	6832.16			79.61	0.33	793.44	26.23	2.73
UpperTrib	5210.887	50-yr	6836.05	6835.92	6832.36			80	1.15	960.91	37.94	2.93
UpperTrib	5210.887	100-yr	6836.7	6836.55	6832.73			80.4	2.33	1146.35	51.33	3.12
UpperTrib	5184.12 BR U	2-yr	6831.55	6831.51	6830.45			45.16		92	0	1.55
UpperTrib	5184.12 BR U	5-yr	6833.19	6833.1	6831.35			54.92		316.06	3.94	2.38
UpperTrib	5184.12 BR U	10-yr	6834.03	6833.92	6831.67			59.26		477.14	12.86	2.76
UpperTrib	5184.12 BR U	25-yr	6835.35	6835.18	6832.4			65.3	0.37	782.77	36.86	3.3
UpperTrib	5184.12 BR U	50-yr	6835.98	6835.79	6832.71			65.3	1.13	947.31	51.56	3.52
UpperTrib	5184.12 BR U	100-yr	6836.63	6836.42	6833.03			65.3	2.08	1129.42	68.5	3.75
UpperTrib	5184.12 BR D	2-yr	6831.45	6831.39	6830.37			42.56	1.57	87.77	2.66	2.01
UpperTrib	5184.12 BR D	5-yr	6833.07	6832.93	6831.38			61.82	24.7	267.24	28.06	3.29
UpperTrib	5184.12 BR D	10-yr	6833.88	6833.69	6831.97			65.3	49.08	387.96	52.96	3.88
UpperTrib	5184.12 BR D	25-yr	6835.14	6834.86	6832.72			65.3	101.69	614.22	104.09	4.77
UpperTrib	5184.12 BR D	50-yr	6835.75	6835.44	6833.08			65.3	131.55	735.73	132.73	5.15
UpperTrib	5184.12 BR D	100-yr	6836.39	6836.03	6833.42			65.3	165.12	870.1	164.78	5.53
UpperTrib	5159.05	2-yr	6831.38	6831.34	6830.27	0.35	0.12	49.04	2.3	87.1	2.6	1.8
UpperTrib	5159.05	5-yr	6832.98	6832.87	6831.19	0.36	0.14	73.69	26.88	264.98	28.15	2.95
UpperTrib	5159.05	10-yr	6833.78	6833.63	6831.73	0.35	0.14	79.42	53.25	382.04	54.71	3.46
UpperTrib	5159.05	25-yr	6835.02	6834.81	6832.51	0.32	0.12	87.55	111.64	595.58	112.78	4.19
UpperTrib	5159.05	50-yr	6835.63	6835.4	6832.82	0.3	0.1	91.56	146.47	705.94	147.59	4.47
UpperTrib	5159.05	100-yr	6836.26	6836.01	6833.14	0.24	0.04	94.71	190.32	817.11	192.58	4.68
UpperTrib	5120.029	2-yr	6830.91	6830.46	6830.45	0.25	0.2	18.55		92		5.39
UpperTrib	5120.029	5-yr	6832.49	6831.92	6831.66	0.36	0.21	30.27		320		6.08
UpperTrib	5120.029	10-yr	6833.3	6832.69	6832.25	0.38	0.18	36.54		490		6.23
UpperTrib	5120.029	25-yr	6834.58	6833.99	6833.11	0.37	0.1	55.13		820		6.17

Falcon DBPS
Middle Tributary Future Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
UpperTrib	5120.029	50-yr	6835.23	6834.67	6833.51	0.36	0.06	86.18	0.06	999.94		6
UpperTrib	5120.029	100-yr	6835.97	6835.59	6833.9	0.28	0.02	170.05	85.31	1114.47	0.22	5.16

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	32631.79	2-yr		25		7161.89	7162.57	7162.57	7162.78	0.055244	3.74	6.69	17.04	1.05	1.48	1.35
LowerTrib	32631.79	5-yr		47		7161.89	7162.81	7162.81	7163.07	0.044317	4.1	11.46	21.52	0.99	1.23	1.47
LowerTrib	32631.79	10-yr		64		7161.89	7162.94	7162.94	7163.25	0.044961	4.48	14.3	23.77	1.02	1.19	1.68
LowerTrib	32631.79	25-yr		100		7161.89	7163.19	7163.19	7163.55	0.039971	4.81	20.78	28.38	0.99	1.07	1.82
LowerTrib	32631.79	50-yr		129.98	0.02	7161.89	7163.36	7163.36	7163.75	0.036532	5.03	25.89	33.31	1.01	1.05	1.76
LowerTrib	32631.79	100-yr	0.01	149.75	0.24	7161.89	7163.44	7163.44	7163.87	0.035776	5.29	28.73	37.48	1.06	1.13	1.7
LowerTrib	32576.48	2-yr		25		7157.2	7158.13	7157.96	7158.2	0.015049	2.16	11.56	25.23	0.56	0.8	0.43
LowerTrib	32576.48	5-yr		47	0	7157.2	7158.39		7158.49	0.012527	2.52	18.67	28.41	0.55	0.72	0.51
LowerTrib	32576.48	10-yr	0	63.96	0.04	7157.2	7158.55		7158.66	0.011582	2.77	23.19	29.72	0.55	0.66	0.56
LowerTrib	32576.48	25-yr	0.13	99.47	0.4	7157.2	7158.83		7158.99	0.01035	3.2	31.89	31.93	0.56	0.67	0.64
LowerTrib	32576.48	50-yr	0.35	128.72	0.93	7157.2	7159		7159.2	0.010623	3.57	37.52	33.29	0.59	0.66	0.74
LowerTrib	32576.48	100-yr	0.49	148.26	1.25	7157.2	7159.06		7159.3	0.012105	3.93	39.5	33.75	0.64	0.54	0.88
LowerTrib	32537.9*	2-yr		25		7156.12	7157.19	7157.04	7157.39	0.029361	3.6	6.95	11.25	0.81	1.42	1.09
LowerTrib	32537.9*	5-yr		47		7156.12	7157.54	7157.42	7157.78	0.029151	3.92	11.99	17.14	0.83	1.36	1.24
LowerTrib	32537.9*	10-yr		64		7156.12	7157.76	7157.6	7158	0.026721	3.96	16.16	21.43	0.8	1.29	1.23
LowerTrib	32537.9*	25-yr		100		7156.12	7157.99		7158.32	0.032267	4.61	21.7	26.5	0.9	1	1.62
LowerTrib	32537.9*	50-yr		130		7156.12	7158.19	7158.09	7158.54	0.029452	4.76	27.3	29.67	0.87	0.61	1.66
LowerTrib	32537.9*	100-yr		150	0	7156.12	7158.5		7158.75	0.01639	4.03	37.23	33.92	0.68	0.35	1.1
LowerTrib	32499.3*	2-yr		25		7155.05	7155.68	7155.68	7155.97	0.047135	4.36	5.74	9.85	1.01	0.82	1.63
LowerTrib	32499.3*	5-yr		47		7155.05	7155.99	7155.99	7156.42	0.042391	5.25	8.96	10.54	1	0.46	2.1
LowerTrib	32499.3*	10-yr		64		7155.05	7156.19	7156.19	7156.71	0.041243	5.77	11.1	10.97	1.01	0.41	2.41
LowerTrib	32499.3*	25-yr		100		7155.05	7156.97		7157.31	0.021323	4.74	21.08	17.15	0.75	0.29	1.52
LowerTrib	32499.3*	50-yr		130		7155.05	7157.76		7157.94	0.00848	3.36	38.65	26.93	0.49	0.15	0.72
LowerTrib	32499.3*	100-yr		150		7155.05	7158.29		7158.4	0.004764	2.74	54.72	33.9	0.38	0.1	0.46
LowerTrib	32460.7*	2-yr		25		7153.98	7154.75		7154.84	0.010786	2.43	10.29	13.96	0.5	0.06	0.47
LowerTrib	32460.7*	5-yr		47		7153.98	7155.51		7155.58	0.003959	2.2	21.33	15.17	0.33	0.05	0.32
LowerTrib	32460.7*	10-yr		64		7153.98	7156		7156.08	0.002902	2.2	29.03	15.96	0.29	0.05	0.29
LowerTrib	32460.7*	25-yr		100		7153.98	7156.96		7157.03	0.002341	2.09	47.86	24.97	0.27	0.05	0.26
LowerTrib	32460.7*	50-yr		130		7153.98	7157.73		7157.78	0.001527	1.86	69.94	32.01	0.22	0.03	0.19
LowerTrib	32460.7*	100-yr		150		7153.98	7158.26		7158.3	0.001139	1.7	88.34	37.45	0.19	0.03	0.16
LowerTrib	32422.2	2-yr		25		7152.9	7154.77	7153.31	7154.78	0.000331	0.73	34.04	19.38	0.1		0.03
LowerTrib	32422.2	5-yr		47		7152.9	7155.52	7153.52	7155.53	0.000391	0.96	48.82	20.33	0.11		0.05
LowerTrib	32422.2	10-yr		64		7152.9	7156.01	7153.67	7156.03	0.000446	1.08	59.1	22.74	0.12		0.06
LowerTrib	32422.2	25-yr		100		7152.9	7156.96	7153.93	7156.98	0.000412	1.2	83.26	31.91	0.12		0.07
LowerTrib	32422.2	50-yr		130		7152.9	7157.73	7154.11	7157.75	0.000338	1.26	103.39	37.43	0.11		0.07
LowerTrib	32422.2	100-yr		150		7152.9	7158.25	7154.23	7158.28	0.000297	1.28	117.15	41.9	0.11		0.07

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	32376.64		Culvert													
LowerTrib	32335.71	2-yr		25		7152.3	7152.86	7152.76	7153	0.02497	3.03	8.24	15.42	0.73	1.32	0.81
LowerTrib	32335.71	5-yr		47		7152.3	7153.1	7152.99	7153.33	0.026509	3.91	12.03	15.93	0.79	1.28	1.2
LowerTrib	32335.71	10-yr		64		7152.3	7153.26	7153.13	7153.56	0.026387	4.37	14.66	16.27	0.81	1.25	1.42
LowerTrib	32335.71	25-yr		100		7152.3	7153.57	7153.42	7153.97	0.02571	5.07	19.71	16.92	0.83	1.22	1.76
LowerTrib	32335.71	50-yr		130		7152.3	7153.8	7153.64	7154.27	0.024646	5.48	23.71	17.41	0.83	1.2	1.96
LowerTrib	32335.71	100-yr		150		7152.3	7153.93	7153.75	7154.45	0.02485	5.77	25.98	17.68	0.84	1.22	2.12
LowerTrib	32288.3*	2-yr		25		7150.91	7151.5		7151.69	0.030531	3.43	7.29	13.2	0.81	1.25	1.02
LowerTrib	32288.3*	5-yr		47		7150.91	7151.8		7152.07	0.026997	4.12	11.4	14.12	0.81	1.23	1.31
LowerTrib	32288.3*	10-yr		64		7150.91	7151.99		7152.31	0.026075	4.53	14.12	14.69	0.82	1.21	1.49
LowerTrib	32288.3*	25-yr		100		7150.91	7152.34		7152.75	0.025556	5.15	19.42	16.34	0.83	1.26	1.8
LowerTrib	32288.3*	50-yr		130		7150.91	7152.59		7153.05	0.026146	5.46	23.83	18.74	0.85	1.3	1.97
LowerTrib	32288.3*	100-yr		150		7150.91	7152.73	7152.57	7153.23	0.026284	5.67	26.47	19.75	0.86	1.31	2.09
LowerTrib	32241.*	2-yr		25		7149.53	7150.28		7150.44	0.022796	3.27	7.64	11.89	0.72	1.3	0.89
LowerTrib	32241.*	5-yr		47		7149.53	7150.57		7150.84	0.024935	4.13	11.37	13.25	0.79	1.31	1.29
LowerTrib	32241.*	10-yr		64		7149.53	7150.81		7151.1	0.024634	4.34	14.75	15.89	0.79	1.35	1.38
LowerTrib	32241.*	25-yr		100		7149.53	7151.13	7150.97	7151.5	0.026828	4.91	20.35	19.44	0.85	1.4	1.7
LowerTrib	32241.*	50-yr		130		7149.53	7151.33	7151.21	7151.76	0.028082	5.27	24.67	22	0.88	1.43	1.91
LowerTrib	32241.*	100-yr		150		7149.53	7151.45	7151.34	7151.92	0.028665	5.5	27.26	23.15	0.89	1.45	2.05
LowerTrib	32193.6*	2-yr		25		7148.14	7148.94	7148.86	7149.15	0.032945	3.7	6.76	11.63	0.86	1.33	1.17
LowerTrib	32193.6*	5-yr		47		7148.14	7149.28		7149.54	0.030688	4.08	11.51	16.27	0.86	1.43	1.33
LowerTrib	32193.6*	10-yr		64		7148.14	7149.45	7149.38	7149.75	0.033354	4.41	14.5	19.43	0.9	1.45	1.53
LowerTrib	32193.6*	25-yr		100		7148.14	7149.72	7149.66	7150.1	0.032829	4.89	20.47	23.3	0.92	1.53	1.77
LowerTrib	32193.6*	50-yr		130		7148.14	7149.91	7149.85	7150.33	0.032377	5.17	25.12	25.98	0.93	1.57	1.92
LowerTrib	32193.6*	100-yr		150		7148.14	7150.02	7149.96	7150.47	0.032152	5.34	28.1	27.61	0.93	1.59	2.01
LowerTrib	32146.2*	2-yr		25		7146.76	7147.71	7147.56	7147.82	0.022555	2.75	9.11	18.73	0.69	1.59	0.68
LowerTrib	32146.2*	5-yr		47		7146.76	7147.92	7147.81	7148.11	0.028258	3.49	13.48	22.96	0.8	1.63	1.03
LowerTrib	32146.2*	10-yr		64		7146.76	7148.08	7147.95	7148.29	0.026607	3.66	17.48	26.44	0.79	1.66	1.09
LowerTrib	32146.2*	25-yr		100	0	7146.76	7148.28	7148.19	7148.57	0.029951	4.29	23.31	30.71	0.87	1.69	1.41
LowerTrib	32146.2*	50-yr		129.94	0.06	7146.76	7148.41	7148.34	7148.76	0.032648	4.78	27.25	33.01	0.93	1.69	1.67
LowerTrib	32146.2*	100-yr	0	149.86	0.14	7146.76	7148.47	7148.44	7148.88	0.034352	5.14	29.33	33.74	0.97	1.7	1.85
LowerTrib	32098.94	2-yr		25		7145.37	7146.06	7146.06	7146.23	0.053636	3.36	7.45	21.82	1.01	10.43	1.14
LowerTrib	32098.94	5-yr		47	0	7145.37	7146.28	7146.25	7146.48	0.042472	3.58	13.12	29.37	0.94	12.09	1.18
LowerTrib	32098.94	10-yr		63.98	0.02	7145.37	7146.36	7146.36	7146.62	0.047535	4.09	15.66	31.61	1.02	2.73	1.47
LowerTrib	32098.94	25-yr	0.05	99.75	0.21	7145.37	7146.54	7146.54	7146.88	0.04256	4.66	21.66	34.71	1.04	0.34	1.65
LowerTrib	32098.94	50-yr	0.29	129.16	0.55	7145.37	7146.67	7146.67	7147.06	0.038807	5.03	26.41	36.53	1.04	0.45	1.75

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	32098.94	100-yr	0.57	148.58	0.85	7145.37	7146.75	7146.75	7147.18	0.037472	5.26	29.34	37.6	1.05	0.54	1.82
LowerTrib	31698.94	2-yr	0.18	24.68	0.14	7133.79	7134.22		7134.26	0.015276	1.65	15.73	60.14	0.57	0.62	0.25
LowerTrib	31698.94	5-yr	0.67	45.67	0.66	7133.79	7134.31		7134.39	0.022495	2.37	21.23	66.45	0.73	0.45	0.45
LowerTrib	31698.94	10-yr	3.5	56.02	4.48	7133.79	7134.77		7134.79	0.002518	1.34	59.04	97.73	0.29	0.04	0.09
LowerTrib	31698.94	25-yr	12.8	67.3	19.9	7133.79	7136.04		7136.04	0.000171	0.64	228.04	157.52	0.08	0.01	0.02
LowerTrib	31698.94	50-yr	17.02	86.32	26.66	7133.79	7136.13		7136.13	0.000246	0.79	242.01	160.23	0.1	0.01	0.02
LowerTrib	31698.94	100-yr	19.79	99.12	31.09	7133.79	7136.16		7136.17	0.000309	0.89	247.11	161.21	0.11	0.01	0.03
LowerTrib	31657.1*	2-yr	0.01	24.99		7132.84	7133.59		7133.64	0.0143	1.81	13.82	39.94	0.54	0.71	0.31
LowerTrib	31657.1*	5-yr	1.6	44.45	0.95	7132.84	7133.91		7133.95	0.005745	1.67	32.74	81.85	0.45	0.07	0.14
LowerTrib	31657.1*	10-yr	7.68	45.88	10.44	7132.84	7134.74		7134.75	0.000377	0.75	126.17	137.28	0.12	0.01	0.02
LowerTrib	31657.1*	25-yr	16.26	55.43	28.31	7132.84	7136.03		7136.04	0.000068	0.48	334.44	184.82	0.05	0	0.01
LowerTrib	31657.1*	50-yr	21.34	71.17	37.49	7132.84	7136.12		7136.12	0.000101	0.6	350.53	187.72	0.06	0	0.01
LowerTrib	31657.1*	100-yr	24.69	81.8	43.5	7132.84	7136.15		7136.16	0.000128	0.68	356.23	188.96	0.07	0	0.02
LowerTrib	31615.3*	2-yr		25		7131.9	7132.84		7132.93	0.019922	2.5	10.02	21.71	0.65	0.23	0.57
LowerTrib	31615.3*	5-yr	6.56	33.59	6.84	7131.9	7133.87		7133.88	0.000529	0.79	90.49	127.96	0.14	0.01	0.02
LowerTrib	31615.3*	10-yr	11.21	34.78	18.01	7131.9	7134.74		7134.74	0.000099	0.49	219.13	167.32	0.06	0	0.01
LowerTrib	31615.3*	25-yr	23	41.58	35.42	7131.9	7136.03		7136.03	0.000029	0.36	548.73	316.18	0.03	0	0
LowerTrib	31615.3*	50-yr	31.05	52.78	46.17	7131.9	7136.12		7136.12	0.000043	0.45	576.04	319.23	0.04	0	0
LowerTrib	31615.3*	100-yr	36.26	60.4	53.34	7131.9	7136.15		7136.15	0.000054	0.51	585.56	320.17	0.05	0	0.01
LowerTrib	31573.5*	2-yr	2.79	22	0.21	7130.95	7132.68		7132.7	0.001976	1.16	28.32	71.81	0.31	0.05	0.05
LowerTrib	31573.5*	5-yr	10.91	22.22	13.87	7130.95	7133.87		7133.87	0.000101	0.45	208.93	240.99	0.06	0.01	0.01
LowerTrib	31573.5*	10-yr	22.5	20.79	20.71	7130.95	7134.74		7134.74	0.000025	0.29	436.72	281.11	0.03	0.01	0
LowerTrib	31573.5*	25-yr	40.22	24.77	35.01	7130.95	7136.03		7136.03	0.00001	0.24	840.76	348.8	0.02	0	0
LowerTrib	31573.5*	50-yr	52.45	31.79	45.76	7130.95	7136.12		7136.12	0.000015	0.3	870.98	354.19	0.02	0	0
LowerTrib	31573.5*	100-yr	60.56	36.5	52.93	7130.95	7136.15		7136.15	0.00002	0.34	881.55	355.8	0.02	0	0
LowerTrib	31531.79	2-yr	0.26	24.47	0.27	7130	7132.63	7131.28	7132.65	0.000804	1.09	24.01	207.22	0.16		0.07
LowerTrib	31531.79	5-yr	1.13	44.34	1.53	7130	7133.84	7131.65	7133.86	0.000386	1.11	45.09	261.69	0.12		0.06
LowerTrib	31531.79	10-yr	1.84	59.55	2.61	7130	7134.71	7131.92	7134.73	0.000278	1.13	60.35	305.21	0.1		0.06
LowerTrib	31531.79	25-yr	47.09	12.69	40.22	7130	7136.03	7132.25	7136.03	0.000004	0.18	1136.25	386.92	0.01		0
LowerTrib	31531.79	50-yr	60.82	16.31	52.87	7130	7136.12	7132.48	7136.12	0.000007	0.22	1169.43	392.94	0.01		0
LowerTrib	31531.79	100-yr	70.02	18.74	61.24	7130	7136.15	7132.61	7136.15	0.000009	0.25	1181.06	395.04	0.01		0
LowerTrib	31486		Culvert													
LowerTrib	31411.01	2-yr		25		7127.76	7128.53	7128.49	7128.76	0.035834	3.85	6.49	19.91	0.9	0.99	1.27
LowerTrib	31411.01	5-yr		47		7127.76	7128.77	7128.77	7129.17	0.039334	5.1	9.22	23.04	1	1.13	1.97
LowerTrib	31411.01	10-yr		64		7127.76	7128.97	7128.96	7129.45	0.035298	5.58	11.47	27.33	0.98	1.3	2.2

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	31411.01	25-yr		100		7127.76	7129.31	7129.31	7129.96	0.032589	6.51	15.35	77.89	0.99	1.47	2.72
LowerTrib	31411.01	50-yr		130		7127.76	7129.57	7129.57	7130.35	0.030487	7.09	18.33	92.52	0.99	1.53	3.04
LowerTrib	31411.01	100-yr		150		7127.76	7129.73	7129.73	7130.59	0.029283	7.42	20.22	101.73	0.98	1.54	3.22
LowerTrib	31375.5*	2-yr		25		7127.02	7127.69		7127.77	0.019621	2.28	10.98	27.09	0.63	0.91	0.5
LowerTrib	31375.5*	5-yr		47		7127.02	7127.9	7127.75	7128.01	0.020853	2.75	17.07	33.16	0.68	1.01	0.67
LowerTrib	31375.5*	10-yr		63.97	0.03	7127.02	7128.04	7127.86	7128.16	0.028173	2.77	23.26	63.31	0.8	1.06	0.65
LowerTrib	31375.5*	25-yr		98.96	1.04	7127.02	7128.13	7128.1	7128.31	0.036969	3.42	30.41	79.73	0.97	1.06	0.88
LowerTrib	31375.5*	50-yr		127.4	2.6	7127.02	7128.2	7128.19	7128.43	0.041592	3.87	35.56	84.88	1.05	1.06	1.09
LowerTrib	31375.5*	100-yr		145.93	4.07	7127.02	7128.24	7128.24	7128.49	0.042621	4.09	39.32	88.47	1.07	1	1.18
LowerTrib	31340.1*	2-yr		25		7126.27	7126.8		7126.87	0.034306	2.07	12.08	52.41	0.76	0.9	0.49
LowerTrib	31340.1*	5-yr		47		7126.27	7126.91		7127	0.040023	2.52	18.67	67.7	0.85	0.86	0.69
LowerTrib	31340.1*	10-yr		64		7126.27	7127		7127.1	0.031234	2.52	25.36	76.13	0.77	0.85	0.65
LowerTrib	31340.1*	25-yr	0	99.02	0.98	7126.27	7127.15		7127.26	0.023412	2.68	38.47	97.19	0.75	0.83	0.58
LowerTrib	31340.1*	50-yr	0.12	127.37	2.51	7126.27	7127.24		7127.36	0.020826	2.86	47.95	107.12	0.75	0.84	0.58
LowerTrib	31340.1*	100-yr	0.46	145.44	4.1	7126.27	7127.31		7127.44	0.017851	2.88	56.07	114.47	0.72	0.83	0.55
LowerTrib	31304.66	2-yr		44		7125.53	7125.92		7125.97	0.021465	1.8	24.42	91.7	0.62	11.12	0.36
LowerTrib	31304.66	5-yr	0.05	84.7	0.25	7125.53	7126.06		7126.14	0.019054	2.21	39.03	110.4	0.65	10.96	0.42
LowerTrib	31304.66	10-yr	0.41	118.8	0.8	7125.53	7126.14		7126.24	0.021147	2.61	47.63	121.3	0.73	10.86	0.52
LowerTrib	31304.66	25-yr	2.54	184.62	2.85	7125.53	7126.27	7126.17	7126.42	0.022969	3.2	64.24	137.26	0.81	10.79	0.67
LowerTrib	31304.66	50-yr	4.97	230.11	4.92	7125.53	7126.34	7126.25	7126.53	0.024394	3.55	74.32	141.71	0.85	10.76	0.8
LowerTrib	31304.66	100-yr	7.06	266.22	6.72	7125.53	7126.39	7126.31	7126.6	0.026123	3.85	80.96	144.57	0.89	10.74	0.91
LowerTrib	30904.66	2-yr		44		7113.75	7114.65	7114.65	7114.88	0.049257	3.79	11.61	26.57	1.01	1.67	1.34
LowerTrib	30904.66	5-yr		85		7113.75	7114.92	7114.92	7115.21	0.045298	4.32	19.68	34.81	1.01	1.25	1.6
LowerTrib	30904.66	10-yr	1.84	118.16	0	7113.75	7115.15	7115.15	7115.4	0.035995	3.98	32.49	84.79	1.12	1.19	0.86
LowerTrib	30904.66	25-yr	12.79	176.35	0.86	7113.75	7115.34	7115.34	7115.64	0.032048	4.51	50.95	109.79	1.13	1.18	0.93
LowerTrib	30904.66	50-yr	23.78	213.73	2.49	7113.75	7115.46	7115.46	7115.77	0.029711	4.76	64.43	123.12	1.1	1.18	0.97
LowerTrib	30904.66	100-yr	34.61	241.04	4.35	7113.75	7115.55	7115.55	7115.87	0.02754	4.88	75.85	131.72	1.06	1.43	0.99
LowerTrib	30742.51	2-yr		44		7110.08	7110.84	7110.53	7110.86	0.004111	1.08	40.71	95.28	0.29	13.46	0.11
LowerTrib	30742.51	5-yr	0.01	84.99		7110.08	7111.15		7111.17	0.002808	1.17	72.6	116.32	0.26	13.17	0.11
LowerTrib	30742.51	10-yr	0.28	119.72	0	7110.08	7111.29		7111.32	0.002857	1.34	90.64	128.1	0.28	13.19	0.13
LowerTrib	30742.51	25-yr	2	187.66	0.35	7110.08	7111.53		7111.57	0.002871	1.61	123.39	146.78	0.31	13.22	0.15
LowerTrib	30742.51	50-yr	4	234.92	1.08	7110.08	7111.67		7111.72	0.002921	1.77	144.7	156.92	0.32	13.22	0.17
LowerTrib	30742.51	100-yr	4.69	274.03	1.28	7110.08	7111.67		7111.74	0.003952	2.06	145.01	157.05	0.37	13.39	0.23
LowerTrib	28941.08	2-yr		44		7096.8	7097.76	7097.61	7097.82	0.019037	2.04	21.57	100.4	0.61	5.69	0.42
LowerTrib	28941.08	5-yr		85		7096.8	7097.81	7097.81	7097.99	0.048759	3.45	24.66	107.22	0.98	0.26	1.16
LowerTrib	28941.08	10-yr		120		7096.8	7097.92	7097.92	7098.13	0.045596	3.74	32.08	142.02	0.98	0.44	1.29

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	28941.08	25-yr		190		7096.8	7098.09	7098.09	7098.36	0.045227	4.2	45.21	326.21	1	0.92	1.53
LowerTrib	28941.08	50-yr		239.98	0.02	7096.8	7098.19	7098.19	7098.49	0.0423	4.41	54.44	438.73	1	1.31	1.59
LowerTrib	28941.08	100-yr	102.97	176.98	0.06	7096.8	7098.24	7098.24	7098.33	0.018827	3.02	150	524.2	0.82	1.29	0.34
LowerTrib	28754.33	2-yr		44		7090.99	7091.98	7091.98	7092.13	0.056103	3.07	14.32	499.73	1.01	0.97	1.01
LowerTrib	28754.33	5-yr	80.32	4.68		7090.99	7092.08	7092.08	7092.08	0.000317	0.24	315.07	622.3	0.07	0.14	0.01
LowerTrib	28754.33	10-yr	113.39	6.61		7090.99	7092.08	7092.08	7092.08	0.000632	0.33	315.07	622.3	0.09	0.21	0.02
LowerTrib	28754.33	25-yr	179.53	10.47		7090.99	7092.08	7092.08	7092.08	0.001585	0.53	315.07	622.3	0.15	0.28	0.05
LowerTrib	28754.33	50-yr	226.78	13.22		7090.99	7092.08	7092.08	7092.09	0.002528	0.66	315.07	622.3	0.19	0.28	0.08
LowerTrib	28754.33	100-yr	264.57	15.43		7090.99	7092.08	7092.08	7092.09	0.003441	0.77	315.07	622.3	0.22	0.32	0.11
LowerTrib	28478.62	2-yr		44		7078.83	7080.08	7079.23	7080.1	0.0011	1.15	38.41	43.64	0.18		0.09
LowerTrib	28478.62	5-yr		85		7078.83	7080.77	7079.45	7080.8	0.000953	1.43	59.54	56.96	0.18		0.12
LowerTrib	28478.62	10-yr		120		7078.83	7081.27	7079.62	7081.31	0.000882	1.6	74.94	62.09	0.18		0.13
LowerTrib	28478.62	25-yr		190		7078.83	7082.31	7079.88	7082.36	0.000678	1.78	106.85	72.66	0.17		0.15
LowerTrib	28478.62	50-yr		240		7078.83	7083.14	7080.08	7083.19	0.000532	1.82	132.19	78.47	0.15		0.14
LowerTrib	28478.62	100-yr		280		7078.83	7083.49	7080.2	7083.55	0.00056	1.96	142.81	84.49	0.16		0.16
LowerTrib	28298.89		Culvert													
LowerTrib	28137.71	2-yr		44		7076	7076.82	7076.68	7077.03	0.046178	3.67	12	16.26	0.75	1.55	2.08
LowerTrib	28137.71	5-yr		85		7076	7077.27	7077.05	7077.56	0.038961	4.33	19.62	18.06	0.73	1.53	2.56
LowerTrib	28137.71	10-yr		120		7076	7077.56	7077.3	7077.92	0.037299	4.78	25.13	19.25	0.74	1.49	2.93
LowerTrib	28137.71	25-yr		190		7076	7077.98	7077.71	7078.48	0.039823	5.68	33.44	21.56	0.79	1.32	3.86
LowerTrib	28137.71	50-yr		240		7076	7078.23	7077.97	7078.83	0.039266	6.21	38.64	23.4	0.8	1.2	4.4
LowerTrib	28137.71	100-yr		280		7076	7078.43	7078.17	7079.09	0.03814	6.55	42.76	25.2	0.8	1.22	4.73
LowerTrib	28081.78	2-yr		43.2	0.8	7073.08	7075.35		7075.48	0.01772	2.89	15.69	15.92	0.51	6.12	1.02
LowerTrib	28081.78	5-yr	0.16	81.39	3.44	7073.08	7075.82		7076.03	0.01937	3.77	23.86	19.05	0.58	6.19	1.43
LowerTrib	28081.78	10-yr	1.01	112.56	6.43	7073.08	7076.15	7075.59	7076.42	0.019104	4.27	30.85	22.84	0.63	6.27	1.53
LowerTrib	28081.78	25-yr	5.94	164.56	19.5	7073.08	7076.88	7076.06	7077.16	0.013496	4.48	50.57	31.43	0.59	6.63	1.3
LowerTrib	28081.78	50-yr	11.92	194.84	33.25	7073.08	7077.37	7076.37	7077.63	0.010672	4.47	67.19	37.37	0.54	6.85	1.15
LowerTrib	28081.78	100-yr	16.39	220.26	43.35	7073.08	7077.59	7076.58	7077.88	0.010767	4.71	75.92	40.14	0.55	6.86	1.23
LowerTrib	27748.51	2-yr	2.5	40.28	1.22	7067.88	7069.23		7069.35	0.019035	2.87	16.98	22.74	0.56	10.33	0.88
LowerTrib	27748.51	5-yr	8.76	71.88	4.36	7067.88	7069.67		7069.84	0.017729	3.54	27.5	25.58	0.57	10.16	1.17
LowerTrib	27748.51	10-yr	14.57	97.61	7.82	7067.88	7069.93		7070.15	0.018427	4.05	34.49	27.31	0.59	10.11	1.43
LowerTrib	27748.51	25-yr	24.87	151.09	14.04	7067.88	7070.1	7069.85	7070.53	0.031999	5.69	39.23	28.42	0.79	9.82	2.71
LowerTrib	27748.51	50-yr	31.12	191.43	17.45	7067.88	7070.08	7070.08	7070.79	0.053602	7.3	38.57	28.27	1.02	7.29	4.49
LowerTrib	27748.51	100-yr	38.55	218.82	22.63	7067.88	7070.24	7070.24	7071.02	0.052669	7.66	43.25	29.33	1.02	7.44	4.76
LowerTrib	27350.22	2-yr	0.42	41.24	2.34	7057.1	7058.68	7058.48	7059.01	0.037112	4.75	10.04	9.79	0.81	6.38	2.19

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	27350.22	5-yr	1.56	73.88	9.56	7057.1	7059.18	7059.18	7059.7	0.039431	6.11	17.71	20.53	1.09	6.51	2.01
LowerTrib	27350.22	10-yr	2.66	93.52	23.82	7057.1	7059.5	7059.5	7060.04	0.036854	6.58	24.55	22.55	1	6.31	2.36
LowerTrib	27350.22	25-yr	5.73	117.91	66.36	7057.1	7060.31	7059.91	7060.71	0.019548	5.97	44.45	26.3	0.68	7.07	1.93
LowerTrib	27350.22	50-yr	10.3	125.71	103.99	7057.1	7061.24	7060.16	7061.48	0.008892	4.83	70.8	30.73	0.46	7.87	1.19
LowerTrib	27350.22	100-yr	12.81	141.5	125.68	7057.1	7061.48	7060.34	7061.74	0.009197	5.12	78.33	31.8	0.46	7.97	1.31
LowerTrib	26950.22	2-yr		44		7051	7052.59		7052.64	0.00865	1.77	24.9	29.17	0.34	7.31	0.46
LowerTrib	26950.22	5-yr		85		7051	7053.08		7053.14	0.008563	2.04	41.63	38.99	0.35	7.3	0.57
LowerTrib	26950.22	10-yr	0	120	0	7051	7053.35		7053.43	0.008434	2.28	52.62	41.84	0.36	7.22	0.66
LowerTrib	26950.22	25-yr	0.04	189.87	0.09	7051	7053.47		7053.64	0.015774	3.31	57.74	45.86	0.52	6.7	1.23
LowerTrib	26950.22	50-yr		240		7051	7053.05	7053.05	7053.59	0.073841	5.92	40.55	38.73	1.02	3.14	4.79
LowerTrib	26950.22	100-yr		280		7051	7053.18	7053.18	7053.76	0.070489	6.13	45.68	39.96	1.01	0.81	4.99
LowerTrib	26646.28	2-yr		65		7043.72	7045	7045	7045.32	0.078011	4.53	14.36	21.33	0.97	1.37	3.25
LowerTrib	26646.28	5-yr		130		7043.72	7045.43	7045.43	7045.85	0.074691	5.17	25.14	29.59	0.99	0.85	3.92
LowerTrib	26646.28	10-yr		190		7043.72	7045.69	7045.69	7046.2	0.070484	5.75	33.03	31.69	0.99	0.61	4.54
LowerTrib	26646.28	25-yr		310		7043.72	7046.55	7046.1	7046.93	0.027496	4.94	62.8	37.21	0.67	0.33	2.85
LowerTrib	26646.28	50-yr	0	380		7043.72	7048.15	7046.34	7048.28	0.005037	2.92	130.12	47.16	0.31	0.14	0.85
LowerTrib	26646.28	100-yr	5.35	453.78	0.87	7043.72	7050.47	7046.56	7050.53	0.000948	1.85	255.85	61.08	0.16	0.05	0.24
LowerTrib	26550.03	2-yr		65		7038	7041.27	7039.82	7041.34	0.005092	2.04	31.86	19.1	0.28		0.5
LowerTrib	26550.03	5-yr		130		7038	7042.87	7040.48	7042.92	0.002408	1.74	74.62	32.75	0.2		0.33
LowerTrib	26550.03	10-yr		190		7038	7044.14	7041.04	7044.18	0.001236	1.6	118.85	39.99	0.16		0.24
LowerTrib	26550.03	25-yr		310		7038	7046.57	7041.76	7046.6	0.000522	1.5	206.45	53.06	0.11		0.18
LowerTrib	26550.03	50-yr		380		7038	7048.11	7042.04	7048.14	0.000355	1.45	261.96	62.41	0.09		0.15
LowerTrib	26550.03	100-yr		460		7038	7050.45	7042.35	7050.48	0.000205	1.33	346.1	83.51	0.08		0.12
LowerTrib	26454.7		Culvert													
LowerTrib	26366.53	2-yr		65		7035	7037.64	7036.01	7037.71	0.003716	2.16	30.13	13.23	0.23	0.74	0.5
LowerTrib	26366.53	5-yr		130		7035	7038.43	7036.61	7038.6	0.00665	3.32	39.21	13.8	0.32	1.13	1.1
LowerTrib	26366.53	10-yr		190		7035	7039	7037.05	7039.26	0.009426	4.12	46.06	17.4	0.38	1.42	1.67
LowerTrib	26366.53	25-yr		310		7035	7039.78	7037.87	7040.25	0.013854	5.46	56.74	21.06	0.48	1.8	2.8
LowerTrib	26366.53	50-yr		380		7035	7040.11	7038.28	7040.7	0.016119	6.2	61.27	22.56	0.52	1.95	3.51
LowerTrib	26366.53	100-yr		460		7035	7040.4	7038.79	7041.17	0.018972	7.03	65.43	23.88	0.57	2.09	4.42
LowerTrib	26300.77	2-yr		65		7035.68	7036.68	7036.68	7036.98	0.089109	4.33	15	26.25	1.01	3.91	3.15
LowerTrib	26300.77	5-yr		130		7035.68	7037.03	7037.03	7037.47	0.077827	5.33	24.38	28.17	1.01	3.83	4.15
LowerTrib	26300.77	10-yr		190		7035.68	7037.29	7037.29	7037.84	0.072383	5.94	31.98	29.67	1.01	3.7	4.79
LowerTrib	26300.77	25-yr		310		7035.68	7037.73	7037.73	7038.45	0.066776	6.82	45.47	32.19	1.01	3.55	5.78
LowerTrib	26300.77	50-yr		380		7035.68	7037.95	7037.95	7038.76	0.064545	7.2	52.76	33.5	1.01	3.5	6.22
LowerTrib	26300.77	100-yr		460		7035.68	7038.19	7038.19	7039.07	0.061353	7.52	61.14	34.94	1	3.45	6.56

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	26150.22	2-yr	65			7028.25	7028.23		7028.25	0.004839		52.64	56.2	0.22	2.59	0.28
LowerTrib	26150.22	5-yr	128.94	1.06		7028.25	7028.75		7028.78	0.004811	0.53	86.7	75.08	0.25	2.59	0.35
LowerTrib	26150.22	10-yr	184.68	5.32		7028.25	7029.1		7029.14	0.00463	0.78	115.37	86.41	0.26	2.6	0.38
LowerTrib	26150.22	25-yr	288.4	21.6		7028.25	7029.66		7029.71	0.004397	1.23	166.13	95.97	0.25	2.61	0.47
LowerTrib	26150.22	50-yr	346.72	33.28		7028.25	7029.93		7029.99	0.004318	1.41	192.9	101.38	0.26	2.62	0.51
LowerTrib	26150.22	100-yr	411.87	48.13		7028.25	7030.21		7030.28	0.004251	1.59	222.1	108.47	0.26	2.62	0.54
LowerTrib	25750.22	2-yr		65		7024.14	7025.61		7025.66	0.009057	1.87	34.71	38.75	0.35	1.48	0.5
LowerTrib	25750.22	5-yr		130		7024.14	7026.11		7026.19	0.009153	2.33	55.73	45.05	0.37	1.54	0.7
LowerTrib	25750.22	10-yr		190		7024.14	7026.43		7026.54	0.009727	2.68	70.77	48.45	0.39	1.56	0.88
LowerTrib	25750.22	25-yr		310		7024.14	7026.94		7027.09	0.010577	3.21	96.62	53.84	0.42	1.56	1.18
LowerTrib	25750.22	50-yr		380		7024.14	7027.19		7027.37	0.010921	3.44	110.46	56.77	0.43	1.56	1.32
LowerTrib	25750.22	100-yr		460		7024.14	7027.45		7027.65	0.011238	3.66	125.66	60.1	0.45	1.56	1.46
LowerTrib	25599.02	2-yr		65		7022.57	7024.13		7024.19	0.01059	1.9	34.23	42.1	0.37	1.17	0.54
LowerTrib	25599.02	5-yr	0	130		7022.57	7024.57		7024.66	0.011419	2.4	54.11	49.82	0.41	1.04	0.77
LowerTrib	25599.02	10-yr	0.24	189.56	0.2	7022.57	7024.87		7024.98	0.010912	2.74	69.85	54.51	0.43	0.96	0.87
LowerTrib	25599.02	25-yr	2.29	305.21	2.5	7022.57	7025.37		7025.53	0.010075	3.24	98.79	60.9	0.45	0.88	1.01
LowerTrib	25599.02	50-yr	4.47	370.55	4.97	7022.57	7025.62		7025.8	0.009778	3.47	114.51	64.12	0.45	0.85	1.08
LowerTrib	25599.02	100-yr	7.8	443.45	8.75	7022.57	7025.88		7026.09	0.009484	3.69	131.93	67.51	0.46	0.83	1.15
LowerTrib	25501.42	2-yr	0	64.91	0.09	7021.74	7022.93		7023.02	0.013667	2.33	28.06	33.04	0.45	0.4	0.72
LowerTrib	25501.42	5-yr	2.05	124.78	3.17	7021.74	7023.51		7023.62	0.009854	2.74	51.17	47.21	0.46	0.41	0.66
LowerTrib	25501.42	10-yr	7.97	173.64	8.39	7021.74	7023.9		7024.03	0.008897	3.04	70.83	54.82	0.45	0.4	0.71
LowerTrib	25501.42	25-yr	26.69	261.1	22.2	7021.74	7024.48		7024.65	0.008107	3.48	106	63.97	0.45	0.4	0.83
LowerTrib	25501.42	50-yr	40.21	308.25	31.54	7021.74	7024.77		7024.95	0.007814	3.68	125.02	67.87	0.44	0.4	0.89
LowerTrib	25501.42	100-yr	56.92	359.67	43.41	7021.74	7025.07		7025.26	0.007581	3.87	145.58	71.53	0.44	0.4	0.96
LowerTrib	25447.05	2-yr	0.03	64.97		7020.85	7022.57		7022.62	0.004378	1.71	38.17	30	0.27	0.21	0.34
LowerTrib	25447.05	5-yr	2.66	127.34	0	7020.85	7023.14		7023.22	0.005617	2.34	58.19	40.72	0.34	0.26	0.49
LowerTrib	25447.05	10-yr	8.8	181.03	0.17	7020.85	7023.51		7023.63	0.006049	2.76	74.96	47.36	0.38	0.29	0.59
LowerTrib	25447.05	25-yr	27.89	280.32	1.8	7020.85	7024.09		7024.25	0.006692	3.38	104.37	55.37	0.42	0.33	0.78
LowerTrib	25447.05	50-yr	41.77	334.68	3.55	7020.85	7024.36		7024.55	0.006945	3.67	120.2	59.14	0.43	0.35	0.87
LowerTrib	25447.05	100-yr	59.49	394.38	6.13	7020.85	7024.64		7024.86	0.007178	3.96	137.4	62.96	0.44	0.37	0.97
LowerTrib	25383.89	2-yr	0.11	64.59	0.3	7020.62	7022.39		7022.41	0.002387	1.22	53.99	46.91	0.2	0.32	0.17
LowerTrib	25383.89	5-yr	1.66	126.13	2.21	7020.62	7022.92		7022.96	0.002903	1.7	80.55	53.78	0.24	0.34	0.27
LowerTrib	25383.89	10-yr	4.54	180.59	4.87	7020.62	7023.28		7023.34	0.003255	2.03	100.8	58.67	0.27	0.36	0.35
LowerTrib	25383.89	25-yr	13.13	284.46	12.4	7020.62	7023.82		7023.91	0.003837	2.56	134.78	66.15	0.3	0.39	0.48
LowerTrib	25383.89	50-yr	19.59	342.46	17.94	7020.62	7024.08		7024.2	0.00408	2.8	152.8	69.8	0.32	0.4	0.55
LowerTrib	25383.89	100-yr	28.05	406.82	25.13	7020.62	7024.36		7024.49	0.004303	3.05	172.33	73.54	0.33	0.41	0.62

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	25320.79	2-yr		65		7020.82	7022.02		7022.09	0.01637	2.2	29.59	40.49	0.45	0.56	0.74
LowerTrib	25320.79	5-yr		130		7020.82	7022.52		7022.62	0.012313	2.51	51.73	46.68	0.42	0.55	0.85
LowerTrib	25320.79	10-yr		190		7020.82	7022.85		7022.98	0.011869	2.8	67.86	50.63	0.43	0.54	0.99
LowerTrib	25320.79	25-yr	0.23	309.54	0.23	7020.82	7023.35		7023.52	0.011219	3.29	94.81	57.67	0.45	0.53	1.14
LowerTrib	25320.79	50-yr	1.1	377.94	0.96	7020.82	7023.6		7023.79	0.010863	3.53	109.51	61.67	0.47	0.52	1.2
LowerTrib	25320.79	100-yr	3	454.45	2.55	7020.82	7023.86		7024.08	0.010567	3.77	125.87	66.03	0.48	0.52	1.25
LowerTrib	25265.56	2-yr		65		7019.8	7021.49		7021.54	0.006628	1.73	37.51	37.12	0.3	0.67	0.42
LowerTrib	25265.56	5-yr		129.98	0.02	7019.8	7022		7022.08	0.007916	2.21	58.91	46.96	0.35	0.72	0.62
LowerTrib	25265.56	10-yr	0.03	189.63	0.33	7019.8	7022.33		7022.43	0.008073	2.54	75.27	51.53	0.37	0.73	0.73
LowerTrib	25265.56	25-yr	1.23	306.5	2.27	7019.8	7022.84		7022.99	0.008114	3.08	103.11	56.99	0.4	0.73	0.91
LowerTrib	25265.56	50-yr	2.84	373.02	4.14	7019.8	7023.1		7023.27	0.008169	3.34	117.87	59.7	0.42	0.74	1
LowerTrib	25265.56	100-yr	5.46	447.67	6.87	7019.8	7023.36		7023.55	0.008251	3.61	133.73	62.48	0.43	0.75	1.09
LowerTrib	25173.45	2-yr	0.74	63.36	0.91	7019.43	7020.82		7020.87	0.007946	1.77	38.05	47	0.34	1.77	0.4
LowerTrib	25173.45	5-yr	3.13	122.71	4.16	7019.43	7021.28		7021.36	0.007625	2.28	60.94	53.12	0.37	1.79	0.54
LowerTrib	25173.45	10-yr	6.27	175.06	8.67	7019.43	7021.6		7021.7	0.007686	2.63	78.63	57.52	0.38	1.82	0.65
LowerTrib	25173.45	25-yr	14.53	274.39	21.09	7019.43	7022.12		7022.26	0.007752	3.16	110.09	64.62	0.41	1.84	0.82
LowerTrib	25173.45	50-yr	20.19	329.92	29.89	7019.43	7022.37		7022.53	0.007837	3.41	126.62	68.1	0.42	1.85	0.9
LowerTrib	25173.45	100-yr	27.32	391.6	41.08	7019.43	7022.62		7022.8	0.007941	3.66	144.4	71.67	0.43	1.86	0.99
LowerTrib	24950.22	2-yr		65		7017.78	7019.07		7019.11	0.007885	1.68	38.72	45.81	0.32	7.07	0.41
LowerTrib	24950.22	5-yr	0.11	129.89		7017.78	7019.49		7019.57	0.008398	2.21	59.07	50.85	0.36	6.99	0.6
LowerTrib	24950.22	10-yr	1.1	188.8	0.1	7017.78	7019.78		7019.89	0.008657	2.59	74.77	56.2	0.39	6.96	0.71
LowerTrib	24950.22	25-yr	6.64	301.69	1.67	7017.78	7020.27		7020.42	0.008762	3.13	104.57	67.85	0.44	6.93	0.84
LowerTrib	24950.22	50-yr	11.96	363.96	4.08	7017.78	7020.51		7020.68	0.008748	3.38	121.42	73.34	0.45	6.9	0.9
LowerTrib	24950.22	100-yr	19.19	432.7	8.11	7017.78	7020.75		7020.94	0.008789	3.62	139.75	78.92	0.47	6.89	0.97
LowerTrib	24550.22	2-yr	0.11	63.54	1.35	7010.39	7011.71	7011.71	7012.05	0.068782	4.7	14.57	24.29	1.06	5.12	2.56
LowerTrib	24550.22	5-yr	1.71	116.66	11.63	7010.39	7012.13	7012.13	7012.58	0.055203	5.61	26.63	32.7	1.05	4.83	2.79
LowerTrib	24550.22	10-yr	4.43	159.51	26.05	7010.39	7012.43	7012.43	7012.94	0.050165	6.18	36.96	38.12	1.03	4.76	3.01
LowerTrib	24550.22	25-yr	11.78	236.04	62.18	7010.39	7012.85	7012.85	7013.49	0.047897	7.13	54.28	43.79	1.02	4.73	3.68
LowerTrib	24550.22	50-yr	17.01	277.69	85.3	7010.39	7013.05	7013.05	7013.77	0.047435	7.59	63.43	46.5	1.02	4.71	4
LowerTrib	24550.22	100-yr	23.82	323.11	113.07	7010.39	7013.27	7013.27	7014.04	0.046494	8.01	73.79	49.6	1.02	4.7	4.28
LowerTrib	24161.18	2-yr	1.63	61.23	2.15	7004.79	7006.24		7006.28	0.005266	1.66	43.32	55.99	0.32	0.26	0.25
LowerTrib	24161.18	5-yr	9.7	109.76	10.53	7004.79	7006.72		7006.78	0.005172	2.09	74.36	70.48	0.34	0.25	0.34
LowerTrib	24161.18	10-yr	19.45	149.96	20.59	7004.79	7007.05		7007.12	0.005197	2.37	98.66	78.34	0.34	0.25	0.41
LowerTrib	24161.18	25-yr	41.66	222.25	46.08	7004.79	7007.56		7007.66	0.005184	2.77	142.68	90.89	0.35	0.25	0.51
LowerTrib	24161.18	50-yr	55.9	260.78	63.32	7004.79	7007.82		7007.92	0.005133	2.95	166.53	96.15	0.35	0.24	0.55
LowerTrib	24161.18	100-yr	72.89	303.1	84.01	7004.79	7008.07		7008.19	0.005135	3.13	191.73	101.22	0.35	0.24	0.61

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	24122.58	2-yr	0.73	54.58	9.69	7004.34	7005.95		7006.01	0.009078	2.1	36.25	48.5	0.4	0.44	0.42
LowerTrib	24122.58	5-yr	3.44	96.9	29.66	7004.34	7006.45		7006.53	0.008041	2.55	62.74	60.21	0.4	0.38	0.52
LowerTrib	24122.58	10-yr	8.08	132.09	49.83	7004.34	7006.77		7006.87	0.00798	2.88	83.8	69.8	0.41	0.38	0.6
LowerTrib	24122.58	25-yr	23.35	194.5	92.15	7004.34	7007.28		7007.41	0.007723	3.33	123.08	82.92	0.41	0.38	0.71
LowerTrib	24122.58	50-yr	33.83	228.07	118.1	7004.34	7007.54		7007.68	0.007568	3.53	145.28	90.67	0.42	0.38	0.75
LowerTrib	24122.58	100-yr	48.11	263.72	148.17	7004.34	7007.8		7007.95	0.007444	3.72	169.45	97.72	0.42	0.39	0.8
LowerTrib	24087.33	2-yr		65		7003.85	7005.48		7005.58	0.017321	2.57	25.29	28.38	0.48	1.45	0.95
LowerTrib	24087.33	5-yr	0.34	127.78	1.88	7003.85	7006.02		7006.15	0.014395	2.96	45.61	43.46	0.51	1.54	0.94
LowerTrib	24087.33	10-yr	1.48	182.7	5.82	7003.85	7006.31	7005.75	7006.49	0.014801	3.44	58.78	47.64	0.54	1.5	1.13
LowerTrib	24087.33	25-yr	5.97	286.89	17.13	7003.85	7006.78		7007.03	0.015114	4.15	83.25	57.43	0.59	1.45	1.36
LowerTrib	24087.33	50-yr	10.18	345.87	23.95	7003.85	7007.01		7007.3	0.015382	4.49	97.44	67.39	0.63	1.43	1.38
LowerTrib	24087.33	100-yr	13.76	409.42	36.82	7003.85	7007.23		7007.56	0.015612	4.83	114.54	81.99	0.68	1.41	1.35
LowerTrib	24032.8	2-yr		65		7002.45	7003.93	7003.76	7004.13	0.045358	3.59	18.13	25.47	0.75	8.02	2
LowerTrib	24032.8	5-yr	0.15	129.75	0.1	7002.45	7004.16	7004.16	7004.61	0.073955	5.4	24.28	29.28	1.04	0.14	3.8
LowerTrib	24032.8	10-yr	1.94	187.17	0.89	7002.45	7004.43	7004.43	7004.98	0.063379	5.97	32.92	32.84	1.04	0.17	3.93
LowerTrib	24032.8	25-yr	10.4	294.72	4.88	7002.45	7004.89	7004.89	7005.58	0.053357	6.8	49.46	40.18	1.06	0.22	4.07
LowerTrib	24032.8	50-yr	17.58	352.96	9.46	7002.45	7005.12	7005.12	7005.86	0.049681	7.15	59.04	44	1.05	0.25	4.13
LowerTrib	24032.8	100-yr	27.29	416.01	16.7	7002.45	7005.36	7005.36	7006.16	0.046108	7.47	70.12	48.03	1.05	0.27	4.17
LowerTrib	23750.22	2-yr	0.18	64.81	0.01	6994.85	6996.04	6995.79	6996.11	0.019276	2.16	30.33	50.1	0.49	4.8	0.73
LowerTrib	23750.22	5-yr	27.84	48.19	53.97	6994.85	7002.12		7002.12	0.000004	0.15	1438.4	458.58	0.01	0	0
LowerTrib	23750.22	10-yr	43.13	67.69	79.18	6994.85	7002.33		7002.33	0.000007	0.2	1535.14	462.94	0.01	0	0
LowerTrib	23750.22	25-yr	74.21	105.63	130.16	6994.85	7002.57		7002.57	0.000015	0.31	1645.42	465.55	0.02	0	0
LowerTrib	23750.22	50-yr	93.09	126.62	160.3	6994.85	7002.69		7002.69	0.000021	0.36	1701.83	466	0.02	0	0
LowerTrib	23750.22	100-yr	115.26	149.82	194.92	6994.85	7002.82		7002.82	0.000028	0.42	1761.7	466.47	0.03	0	0.01
LowerTrib	23617.72	2-yr	6.11	58.89	0	6990.4	6991.16	6991.16	6991.31	0.090802	3.25	22.2	80.47	1.05	0.08	1.56
LowerTrib	23617.72	5-yr	57.74	48.73	23.52	6990.4	7002.12		7002.12	0.000001	0.09	2277.59	361.6	0	0	0
LowerTrib	23617.72	10-yr	84.57	70	35.44	6990.4	7002.33		7002.33	0.000001	0.12	2353.6	362.67	0.01	0	0
LowerTrib	23617.72	25-yr	138.34	112.15	59.52	6990.4	7002.57		7002.57	0.000003	0.19	2439.76	364.74	0.01	0	0
LowerTrib	23617.72	50-yr	169.76	136.23	74.01	6990.4	7002.69		7002.69	0.000004	0.23	2483.8	365.69	0.01	0	0
LowerTrib	23617.72	100-yr	205.72	163.36	90.92	6990.4	7002.82		7002.82	0.000006	0.27	2531.01	366.71	0.01	0	0
LowerTrib	23513.91	2-yr		65		6982.68	6991.03	6983.48	6991.03	0.000011	0.24	274.75	48.63	0.02		0
LowerTrib	23513.91	5-yr	15.25	103.42	11.33	6982.68	7002.12	6983.78	7002.12	0.000001	0.12	1399.84	159.74	0.01		0
LowerTrib	23513.91	10-yr	22.71	150.09	17.2	6982.68	7002.33	6984.02	7002.33	0.000002	0.17	1434.02	166.65	0.01		0
LowerTrib	23513.91	25-yr	37.87	242.93	29.2	6982.68	7002.57	6984.41	7002.57	0.000005	0.27	1474.34	174.71	0.01		0
LowerTrib	23513.91	50-yr	46.97	296.55	36.48	6982.68	7002.69	6984.6	7002.69	0.000007	0.33	1495.49	178.91	0.02		0
LowerTrib	23513.91	100-yr	51.3	362.97	45.73	6982.68	7002.81	6984.82	7002.82	0.00001	0.4	1518.76	183.05	0.02		0

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	23413.07		Culvert													
LowerTrib	23316.27	2-yr		65		6981.75	6982.34	6982.34	6982.65	0.098437	4.53	14.36	24.73	1.05	0.75	3.44
LowerTrib	23316.27	5-yr		130		6981.75	6982.72	6982.72	6983.18	0.074988	5.43	23.92	24.97	0.98	0.6	4.23
LowerTrib	23316.27	10-yr		190		6981.75	6982.99	6982.99	6983.59	0.071171	6.17	30.78	25.14	0.98	0.6	5.06
LowerTrib	23316.27	25-yr		310		6981.75	6983.56	6983.47	6984.29	0.0558	6.86	45.22	25.49	0.91	0.69	5.57
LowerTrib	23316.27	50-yr		380		6981.75	6983.99	6983.71	6984.7	0.042845	6.78	56.02	25.75	0.81	0.64	5.13
LowerTrib	23316.27	100-yr		460		6981.75	6984.39	6983.96	6985.13	0.036904	6.92	66.48	26	0.76	0.63	5.09
LowerTrib	23184.63	2-yr	7.61	60.39		6980.27	6981.75		6981.76	0.001488	0.81	106.8	141.55	0.16	0.73	0.07
LowerTrib	23184.63	5-yr	27.63	121.17	0.2	6980.27	6982.45		6982.46	0.000996	0.94	212.92	156.83	0.13	0.58	0.08
LowerTrib	23184.63	10-yr	45.01	165.12	0.87	6980.27	6982.94		6982.95	0.000789	1	290.27	160.48	0.12	0.49	0.09
LowerTrib	23184.63	25-yr	84.41	271.67	2.93	6980.27	6983.59		6983.61	0.000889	1.26	394.92	161.81	0.13	0.69	0.13
LowerTrib	23184.63	50-yr	109.06	331.43	4.52	6980.27	6984.04		6984.06	0.000805	1.32	468.13	162.74	0.12	0.65	0.14
LowerTrib	23184.63	100-yr	134.79	393	6.21	6980.27	6984.48		6984.5	0.000742	1.38	539.85	163.64	0.12	0.62	0.15
LowerTrib	22950.22	2-yr		68		6977.72	6980.94	6980.16	6981.03	0.009679	2.47	27.54	19.33	0.36	8.38	0.78
LowerTrib	22950.22	5-yr		149		6977.72	6981.69	6980.73	6981.88	0.012249	3.51	42.48	20.4	0.43	8.94	1.4
LowerTrib	22950.22	10-yr		211		6977.72	6982.22	6981.06	6982.46	0.012294	3.95	53.43	21.15	0.44	9.34	1.67
LowerTrib	22950.22	25-yr		359		6977.72	6982.23	6981.73	6982.93	0.034937	6.68	53.76	21.17	0.74	9.23	4.76
LowerTrib	22950.22	50-yr		445		6977.72	6982.61	6982.07	6983.42	0.03526	7.19	61.91	21.71	0.75	9.52	5.33
LowerTrib	22950.22	100-yr		534		6977.72	6982.98	6982.4	6983.88	0.035522	7.64	69.87	22.23	0.76	9.8	5.86
LowerTrib	22550.22	2-yr	0	60.82	7.18	6971.79	6972.46	6972.46	6972.65	0.07475	3.69	23.94	100.76	1.04		1.64
LowerTrib	22550.22	5-yr	0.29	107.5	41.21	6971.79	6972.74	6972.74	6972.94	0.052964	4.18	60.91	127.8	0.92	7.44	1.57
LowerTrib	22550.22	10-yr	0.66	142.73	67.6	6971.79	6972.85	6972.85	6973.11	0.060386	4.87	75.15	129.13	0.95	7.91	2.19
LowerTrib	22550.22	25-yr	4.57	195.44	159	6971.79	6973.58	6973.09	6973.71	0.015864	3.7	172.13	137.86	0.46	12.2	1.23
LowerTrib	22550.22	50-yr	6.91	235.64	202.45	6971.79	6973.75	6973.21	6973.9	0.016545	4.04	195.83	139.36	0.46	12.2	1.45
LowerTrib	22550.22	100-yr	9.65	276.68	247.67	6971.79	6973.91	6973.28	6974.08	0.01723	4.36	218.03	142.22	0.48	12.2	1.64
LowerTrib	22150.22	2-yr		68		6958.54	6960.5	6960.5	6960.82	0.086869	4.5	15.11	37.43	1.01		3.31
LowerTrib	22150.22	5-yr	0.17	148.39	0.44	6958.54	6961.22	6960.99	6961.28	0.009305	1.87	81.05	95.99	0.36	8.33	0.48
LowerTrib	22150.22	10-yr	0.55	209.6	0.85	6958.54	6961.42	6961.1	6961.49	0.009603	2.16	99.79	98.39	0.38	8.34	0.6
LowerTrib	22150.22	25-yr	0.22	357.91	0.87	6958.54	6961.12	6961.12	6961.52	0.080389	5.07	71.64	94.76	1.03	4.29	3.74
LowerTrib	22150.22	50-yr	0.62	442.99	1.4	6958.54	6961.26	6961.26	6961.7	0.07332	5.37	84.24	96.4	1.01	0.75	3.94
LowerTrib	22150.22	100-yr	1.26	530.68	2.06	6958.54	6961.39	6961.39	6961.87	0.067603	5.63	96.87	98.02	1	0.32	4.11
LowerTrib	21750.22	2-yr	0.36	64.04	3.6	6951.93	6952.46	6952.45	6952.62	0.090752	3.35	23.22	75.81	1.04	1.61	1.74
LowerTrib	21750.22	5-yr	4.07	133.57	11.36	6951.93	6952.69	6952.69	6952.95	0.08098	4.35	42.69	91.9	1.07	1.4	2.35
LowerTrib	21750.22	10-yr	8.85	184.05	18.1	6951.93	6952.84	6952.84	6953.15	0.074435	4.82	57.26	104.38	1.08	0.82	2.55
LowerTrib	21750.22	25-yr	65.87	243.96	49.17	6951.93	6954.25		6954.31	0.003894	2.23	253.84	148.72	0.25	0.04	0.41

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	21750.22	50-yr	107.42	267.73	69.85	6951.93	6956.47		6956.48	0.000454	1.21	599.1	163.6	0.09	0.01	0.1
LowerTrib	21750.22	100-yr	143.11	301.87	89.02	6951.93	6959.12		6959.13	0.000119	0.85	1055.2	179.1	0.05	0	0.04
LowerTrib	21732.7*	2-yr	1.19	62.89	3.92	6950.33	6950.86	6950.86	6951.02	0.0935	3.36	24.21	83.71	1.06	1.21	1.69
LowerTrib	21732.7*	5-yr	7.06	129.08	12.87	6950.33	6951.09	6951.09	6951.34	0.078446	4.25	45.57	97.77	1.03	0.2	2.28
LowerTrib	21732.7*	10-yr	17.31	171.11	22.58	6950.33	6951.47		6951.62	0.027219	3.46	85.2	113.8	0.64	0.11	1.27
LowerTrib	21732.7*	25-yr	48.06	241.08	69.86	6950.33	6954.25		6954.27	0.000615	1.27	421.01	126.83	0.1	0.01	0.13
LowerTrib	21732.7*	50-yr	62.94	289.56	92.5	6950.33	6956.46		6956.47	0.00019	0.96	793.05	202.81	0.07	0	0.05
LowerTrib	21732.7*	100-yr	120.51	309.47	104.02	6950.33	6959.12		6959.13	0.000064	0.71	1370.93	230.59	0.04	0	0.02
LowerTrib	21715.3*	2-yr	3.22	59.54	5.24	6948.73	6949.33		6949.43	0.051396	2.75	32.07	98.4	0.8	0.06	1.05
LowerTrib	21715.3*	5-yr	20.98	101.99	26.03	6948.73	6950.63		6950.64	0.001481	1.18	191.4	131.81	0.15	0.01	0.13
LowerTrib	21715.3*	10-yr	33.36	136.43	41.2	6948.73	6951.51		6951.52	0.000672	1.04	308.62	134.48	0.1	0.01	0.1
LowerTrib	21715.3*	25-yr	63.16	218.42	77.42	6948.73	6954.25		6954.26	0.000157	0.81	689.38	142.78	0.05	0	0.05
LowerTrib	21715.3*	50-yr	79.94	266.08	98.98	6948.73	6956.46		6956.47	0.000073	0.7	1013.3	150.98	0.04	0	0.03
LowerTrib	21715.3*	100-yr	86.58	324.35	123.08	6948.73	6959.12		6959.12	0.00004	0.63	1595.19	271.16	0.04	0	0.01
LowerTrib	21697.9*	2-yr	11.84	42.5	13.66	6947.13	6949.37		6949.37	0.000143	0.41	260.15	146.92	0.05	0	0.02
LowerTrib	21697.9*	5-yr	28.94	87.81	32.25	6947.13	6950.63		6950.63	0.000125	0.53	446.77	150.18	0.04	0.01	0.02
LowerTrib	21697.9*	10-yr	42.43	121.82	46.75	6947.13	6951.51		6951.51	0.00011	0.58	579.84	152.46	0.04	0.01	0.03
LowerTrib	21697.9*	25-yr	75.95	200.73	82.31	6947.13	6954.25		6954.26	0.000056	0.58	1008.37	159.58	0.03	0.01	0.02
LowerTrib	21697.9*	50-yr	96.08	245.49	103.43	6947.13	6956.46		6956.47	0.000033	0.54	1367.68	165.31	0.03	0.01	0.02
LowerTrib	21697.9*	100-yr	116.04	293.55	124.41	6947.13	6959.12		6959.12	0.00002	0.5	1821.65	177.76	0.02	0.01	0.01
LowerTrib	21680.48	2-yr		68		6945.53	6949.36	6946.15	6949.37	0.000148	0.62	108.85	164.95	0.06		0.03
LowerTrib	21680.48	5-yr		149		6945.53	6950.6	6946.54	6950.62	0.000275	1.03	144.83	167.87	0.08		0.09
LowerTrib	21680.48	10-yr		211		6945.53	6951.48	6946.79	6951.5	0.000323	1.24	170.03	169.91	0.09		0.12
LowerTrib	21680.48	25-yr		359		6945.53	6954.21	6947.29	6954.25	0.000261	1.44	249.24	176.34	0.09		0.14
LowerTrib	21680.48	50-yr		445		6945.53	6956.43	6947.57	6956.46	0.000187	1.42	313.29	181.54	0.08		0.13
LowerTrib	21680.48	100-yr		534		6945.53	6959.08	6947.8	6959.11	0.00013	1.37	390.24	191.02	0.07		0.11
LowerTrib	21604.86		Culvert													
LowerTrib	21520.49	2-yr		68		6945	6945.73	6945.73	6946.07	0.07855	4.68	14.52	21.54	0.98	0.22	3.42
LowerTrib	21520.49	5-yr		149		6945	6946.21	6946.21	6946.78	0.067417	6.02	24.77	22.44	0.98	0.39	4.8
LowerTrib	21520.49	10-yr		211		6945	6946.51	6946.51	6947.22	0.065401	6.78	31.1	22.99	1	0.5	5.7
LowerTrib	21520.49	25-yr		359		6945	6947.12	6947.12	6948.12	0.060465	8.03	44.69	24.12	1.01	0.67	7.21
LowerTrib	21520.49	50-yr		445		6945	6947.43	6947.43	6948.57	0.05796	8.56	52	24.71	1.01	0.72	7.84
LowerTrib	21520.49	100-yr		534		6945	6947.76	6947.76	6949	0.054391	8.94	59.73	25.32	0.99	0.77	8.24
LowerTrib	21350.22	2-yr	0.19	67.81		6942.25	6944.83	6942.73	6944.83	0.000085	0.31	219.85	111.75	0.04	0.05	0.01
LowerTrib	21350.22	5-yr	0.85	148.15		6942.25	6945.38	6942.98	6945.38	0.000187	0.53	281.99	116.52	0.06	0.09	0.03

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	21350.22	10-yr	1.65	209.35		6942.25	6945.74	6943.11	6945.75	0.000243	0.66	324.6	119.68	0.07	0.11	0.04
LowerTrib	21350.22	25-yr	8.26	350.5	0.24	6942.25	6946.55	6943.39	6946.56	0.0003	0.85	452.41	211.51	0.1	0.11	0.04
LowerTrib	21350.22	50-yr	21.47	418.6	4.92	6942.25	6947.08	6943.56	6947.09	0.000268	0.88	569.56	226.76	0.1	0.09	0.04
LowerTrib	21350.22	100-yr	37.23	485.77	10.99	6942.25	6947.47	6943.68	6947.49	0.000265	0.93	658.56	227.79	0.09	0.09	0.05
LowerTrib	21169.19	2-yr	0.08	67.92		6943.85	6944.76		6944.78	0.006352	1.14	59.67	107.76	0.27		0.22
LowerTrib	21169.19	5-yr	0.29	148.71		6943.85	6945.26		6945.29	0.003612	1.32	113.55	108.18	0.23		0.23
LowerTrib	21169.19	10-yr	0.53	210.47		6943.85	6945.61		6945.64	0.002832	1.4	150.84	108.47	0.21		0.24
LowerTrib	21169.19	25-yr	1.38	357.62		6943.85	6946.42		6946.45	0.0018	1.51	238.98	109.15	0.18		0.24
LowerTrib	21169.19	50-yr	2.11	442.89		6943.85	6946.96		6947	0.001328	1.5	298.9	109.61	0.16		0.22
LowerTrib	21169.19	100-yr	2.88	531.12		6943.85	6947.36		6947.39	0.001232	1.57	341.89	109.94	0.16		0.23
LowerTrib	21150.6*	2-yr	0.03	67.97		6943.58	6944.76		6944.78	0.00441	1.07	63.4	95.51	0.23	0.09	0.18
LowerTrib	21150.6*	5-yr	0.19	148.81		6943.58	6945.26		6945.29	0.003297	1.34	111.17	95.96	0.22	0.07	0.24
LowerTrib	21150.6*	10-yr	0.4	210.6		6943.58	6945.61		6945.64	0.002799	1.47	144.26	96.27	0.21	0.06	0.26
LowerTrib	21150.6*	25-yr	1.24	357.76		6943.58	6946.42		6946.46	0.00195	1.62	222.54	96.99	0.19	0.04	0.27
LowerTrib	21150.6*	50-yr	2.02	442.98		6943.58	6946.96		6947.01	0.001485	1.62	275.81	97.48	0.17	0.03	0.25
LowerTrib	21150.6*	100-yr	2.84	531.16		6943.58	6947.36		6947.4	0.001401	1.71	314.05	97.83	0.17	0.03	0.27
LowerTrib	21132.0*	2-yr	0	68		6943.32	6944.67		6944.69	0.005429	1.21	56.26	82.89	0.26	0.11	0.23
LowerTrib	21132.0*	5-yr	0.1	148.9		6943.32	6945.19		6945.22	0.003944	1.5	99.68	83.68	0.24	0.09	0.29
LowerTrib	21132.0*	10-yr	0.28	210.72		6943.32	6945.54		6945.58	0.003362	1.64	129.24	84.02	0.23	0.07	0.32
LowerTrib	21132.0*	25-yr	1.12	357.88		6943.32	6946.37		6946.42	0.002371	1.81	198.86	84.82	0.21	0.05	0.34
LowerTrib	21132.0*	50-yr	1.98	443.02		6943.32	6946.92		6946.97	0.001814	1.82	246.31	85.36	0.19	0.04	0.31
LowerTrib	21132.0*	100-yr	2.89	531.11		6943.32	6947.31		6947.37	0.001728	1.92	279.82	85.74	0.19	0.04	0.34
LowerTrib	21113.4*	2-yr		68		6943.05	6944.54		6944.58	0.006845	1.43	47.58	64.73	0.29	0.15	0.31
LowerTrib	21113.4*	5-yr	0.03	148.97		6943.05	6945.09		6945.14	0.005241	1.74	85.85	71.35	0.28	0.13	0.39
LowerTrib	21113.4*	10-yr	0.17	210.83		6943.05	6945.45		6945.51	0.004395	1.89	111.91	71.75	0.27	0.1	0.42
LowerTrib	21113.4*	25-yr	1.03	357.97		6943.05	6946.3		6946.36	0.003083	2.09	172.73	72.67	0.24	0.07	0.44
LowerTrib	21113.4*	50-yr	2.01	442.99		6943.05	6946.87		6946.93	0.002356	2.09	214.28	73.29	0.22	0.06	0.41
LowerTrib	21113.4*	100-yr	3.09	530.91		6943.05	6947.26		6947.33	0.002292	2.22	243.11	74.68	0.22	0.05	0.45
LowerTrib	21094.9*	2-yr		68		6942.78	6944.38		6944.43	0.009322	1.78	38.15	46.91	0.35	0.24	0.47
LowerTrib	21094.9*	5-yr	0	149		6942.78	6944.94		6945.01	0.008701	2.18	68.34	58.89	0.36	0.26	0.63
LowerTrib	21094.9*	10-yr	0.06	210.94		6942.78	6945.32		6945.41	0.006759	2.32	91.19	59.4	0.33	0.19	0.64
LowerTrib	21094.9*	25-yr	0.93	358.07		6942.78	6946.19		6946.29	0.004482	2.52	143.46	60.54	0.29	0.12	0.64
LowerTrib	21094.9*	50-yr	2.17	442.83	0	6942.78	6946.78		6946.88	0.003438	2.5	179.83	63.68	0.26	0.09	0.58
LowerTrib	21094.9*	100-yr	3.46	530.32	0.22	6942.78	6947.17		6947.28	0.003249	2.64	205.06	65.83	0.26	0.08	0.61
LowerTrib	21076.3*	2-yr		68		6942.52	6944.09		6944.19	0.017279	2.55	26.67	30.33	0.48	0.25	0.94
LowerTrib	21076.3*	5-yr		149		6942.52	6944.56		6944.75	0.023523	3.44	43.36	39.75	0.58	0.34	1.59

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	21076.3*	10-yr		211		6942.52	6945.05		6945.21	0.015621	3.27	64.46	46.5	0.49	0.25	1.34
LowerTrib	21076.3*	25-yr	0.81	358.16	0.03	6942.52	6946.01		6946.18	0.008045	3.26	110.85	50.64	0.39	0.15	1.07
LowerTrib	21076.3*	50-yr	2.43	441.51	1.06	6942.52	6946.64		6946.79	0.00545	3.15	143.92	55.07	0.34	0.13	0.87
LowerTrib	21076.3*	100-yr	4.57	526.57	2.86	6942.52	6947.03		6947.2	0.005105	3.32	166.03	58.33	0.34	0.12	0.88
LowerTrib	21057.78	2-yr		37		6942.25	6943.89	6943.23	6943.94	0.008175	1.86	19.95	20.64	0.33	1	0.48
LowerTrib	21057.78	5-yr		67		6942.25	6944.34	6943.55	6944.41	0.008836	2.2	30.42	25.81	0.36	1.02	0.64
LowerTrib	21057.78	10-yr		115		6942.25	6944.86	6943.91	6944.96	0.008986	2.53	45.53	31.85	0.37	1.03	0.79
LowerTrib	21057.78	25-yr	0.96	262.46	1.58	6942.25	6945.86	6944.68	6946.03	0.008088	3.27	83.23	43	0.41	1.06	0.96
LowerTrib	21057.78	50-yr	5.86	380.97	6.17	6942.25	6946.45	6945.16	6946.67	0.007887	3.76	110.42	48.08	0.43	1.14	1.11
LowerTrib	21057.78	100-yr	11.98	465.82	11.21	6942.25	6946.83	6945.42	6947.08	0.00783	4.07	128.54	80.43	0.43	1.19	1.26
LowerTrib	20950.22	2-yr		37		6941.51	6942.88	6942.4	6942.94	0.010604	1.98	18.71	21.43	0.37	2.39	0.57
LowerTrib	20950.22	5-yr		67		6941.51	6943.31	6942.66	6943.4	0.010181	2.35	28.54	49.45	0.38	2.35	0.73
LowerTrib	20950.22	10-yr		115		6941.51	6943.81	6942.98	6943.93	0.010223	2.76	41.65	88.37	0.4	2.35	0.93
LowerTrib	20950.22	25-yr		265		6941.51	6944.76	6943.73	6944.97	0.012065	3.72	71.26	130.48	0.46	2.49	1.52
LowerTrib	20950.22	50-yr		393		6941.51	6945.22	6944.19	6945.53	0.014746	4.47	87.92	150.47	0.51	2.67	2.1
LowerTrib	20950.22	100-yr		489		6941.51	6945.5	6944.5	6945.88	0.016456	4.94	98.93	164.14	0.55	2.8	2.51
LowerTrib	20786.19	2-yr		37		6938.71	6940.44		6940.56	0.021211	2.78	13.29	15.09	0.52	0.58	1.13
LowerTrib	20786.19	5-yr		67		6938.71	6940.88		6941.04	0.021502	3.18	21.06	19.83	0.54	0.59	1.39
LowerTrib	20786.19	10-yr		115		6938.71	6941.38		6941.58	0.021309	3.55	32.39	25.77	0.56	0.61	1.63
LowerTrib	20786.19	25-yr		240.64	24.36	6938.71	6942.24	6941.68	6942.47	0.019675	4.09	77.96	91.41	0.75	0.63	1.04
LowerTrib	20786.19	50-yr	0	316.74	76.26	6938.71	6942.62	6942.27	6942.86	0.017801	4.34	117.01	113.41	0.69	0.6	1.14
LowerTrib	20786.19	100-yr	0.11	370.3	118.59	6938.71	6942.83	6942.44	6943.09	0.017212	4.58	142.4	125.68	0.68	0.59	1.21
LowerTrib	20763.13	2-yr		37		6938.26	6939.81		6939.97	0.030269	3.23	11.45	13.59	0.62	2.77	1.55
LowerTrib	20763.13	5-yr		67		6938.26	6940.24		6940.45	0.030216	3.7	18.09	17.48	0.64	3.08	1.9
LowerTrib	20763.13	10-yr		115		6938.26	6940.67	6940.31	6940.96	0.032878	4.32	26.62	21.79	0.69	3.41	2.44
LowerTrib	20763.13	25-yr		246.67	18.33	6938.26	6941.43	6941.31	6941.84	0.037843	5.36	56.12	58.76	0.94	3.87	2.23
LowerTrib	20763.13	50-yr		337.12	55.88	6938.26	6941.81	6941.68	6942.26	0.038645	5.75	82.19	80.4	0.94	4.01	2.44
LowerTrib	20763.13	100-yr		398.11	90.89	6938.26	6942.03	6941.94	6942.5	0.038826	5.96	101.67	96.48	0.94	4.05	2.53
LowerTrib	20550.22	2-yr		12.2	24.8	6936.17	6937.19		6937.2	0.007031	0.93	42.34	107.14	0.25	1.27	0.17
LowerTrib	20550.22	5-yr		23.56	43.44	6936.17	6937.35		6937.37	0.008216	1.24	61.83	128.06	0.28	1.23	0.25
LowerTrib	20550.22	10-yr	0	39.75	75.25	6936.17	6937.53		6937.56	0.009106	1.57	84.36	134.05	0.31	1.2	0.36
LowerTrib	20550.22	25-yr	0.46	89.13	175.4	6936.17	6937.92		6937.98	0.010184	2.25	139.54	147.74	0.35	1.19	0.6
LowerTrib	20550.22	50-yr	1.53	130.13	261.34	6936.17	6938.17		6938.25	0.010624	2.65	178.82	157.44	0.37	1.22	0.75
LowerTrib	20550.22	100-yr	2.56	160.46	325.99	6936.17	6938.35		6938.44	0.010793	2.89	206.54	165.51	0.39	1.24	0.84
LowerTrib	20452.99	2-yr		0.56	36.44	6935.69	6935.9		6935.94	0.032166	0.84	24.21	80.6	0.5	1.57	0.6
LowerTrib	20452.99	5-yr		2.69	64.31	6935.69	6936.1		6936.14	0.021903	1.01	43.64	109.4	0.43	1.43	0.54

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	20452.99	10-yr	0.62	8.57	105.81	6935.69	6936.31		6936.36	0.017503	1.36	69.38	133.2	0.41	1.34	0.57
LowerTrib	20452.99	25-yr	5.93	29.79	229.28	6935.69	6936.72		6936.79	0.014886	2.03	129.99	158.59	0.4	1.25	0.76
LowerTrib	20452.99	50-yr	11.56	48.29	333.15	6935.69	6936.95		6937.04	0.015124	2.47	167.21	166.51	0.42	1.24	0.95
LowerTrib	20452.99	100-yr	16.4	62.29	410.3	6935.69	6937.1		6937.2	0.015222	2.74	192.65	171.91	0.43	1.23	1.06
LowerTrib	20393.38	2-yr	1.24	35.64	0.12	6932.92	6934.25		6934.37	0.021728	2.83	13.99	23.78	0.64	0.42	0.79
LowerTrib	20393.38	5-yr	3.97	59.91	3.12	6932.92	6934.51	6934.28	6934.7	0.025981	3.67	22.31	44.51	0.87	0.54	0.81
LowerTrib	20393.38	10-yr	11.78	89.56	13.66	6932.92	6934.77	6934.67	6935.02	0.028704	4.44	36.34	62.49	0.92	0.58	1.04
LowerTrib	20393.38	25-yr	45.24	150.32	69.44	6932.92	6935.25	6935.25	6935.55	0.030081	5.54	82.73	123.65	0.95	0.6	1.25
LowerTrib	20393.38	50-yr	89.98	182.54	120.48	6932.92	6935.5	6935.45	6935.81	0.029127	5.93	115.28	135.72	0.85	0.57	1.54
LowerTrib	20393.38	100-yr	124.51	203.97	160.53	6932.92	6935.66		6935.98	0.028439	6.16	137.91	143.76	0.81	0.55	1.7
LowerTrib	20374.32	2-yr		9.52	27.48	6932.98	6933.9		6933.95	0.020308	1.86	22.01	45.39	0.43	1.55	0.61
LowerTrib	20374.32	5-yr		17.48	49.52	6932.98	6934.1		6934.17	0.026456	2.36	32.04	58.13	0.5	1.5	0.9
LowerTrib	20374.32	10-yr		29.87	85.13	6932.98	6934.34		6934.43	0.027606	2.74	48.36	74.79	0.53	1.5	1.11
LowerTrib	20374.32	25-yr	0.51	67.85	196.65	6932.98	6934.83		6934.95	0.027354	3.22	95.05	117.64	0.55	1.55	1.37
LowerTrib	20374.32	50-yr	2.5	101.01	289.49	6932.98	6935.08		6935.24	0.026308	3.74	126.62	132.35	0.57	1.55	1.57
LowerTrib	20374.32	100-yr	5.54	124.81	358.65	6932.98	6935.25		6935.42	0.025344	4.02	149.97	143.17	0.58	1.57	1.65
LowerTrib	20291.07	2-yr		4.33	32.67	6931.68	6932.37		6932.4	0.017144	1.35	26.6	62.89	0.38	1.36	0.45
LowerTrib	20291.07	5-yr		9.18	57.82	6931.68	6932.64		6932.67	0.012907	1.5	45.98	82.03	0.34	1.37	0.45
LowerTrib	20291.07	10-yr	0.02	17.1	97.88	6931.68	6932.89		6932.94	0.012486	1.75	69.77	103.8	0.35	1.37	0.52
LowerTrib	20291.07	25-yr	1.75	41.24	222.01	6931.68	6933.33		6933.4	0.013258	2.46	124.87	143.69	0.41	1.4	0.72
LowerTrib	20291.07	50-yr	5.15	61	326.85	6931.68	6933.59		6933.69	0.013596	2.89	163.98	155.18	0.42	1.42	0.89
LowerTrib	20291.07	100-yr	8.44	75.33	405.22	6931.68	6933.75		6933.86	0.014268	3.2	188.21	161.88	0.43	1.41	1.03
LowerTrib	20221.25	2-yr	0.17	35.75	1.08	6928.97	6930.92	6930.48	6931.04	0.02216	2.86	14.58	37	0.79	0.82	0.54
LowerTrib	20221.25	5-yr	2.94	58.36	5.7	6928.97	6931.09	6931.01	6931.3	0.032163	3.89	22.64	53	0.98	0.91	0.85
LowerTrib	20221.25	10-yr	12.55	82.5	19.95	6928.97	6931.33	6931.33	6931.56	0.033605	4.52	39.68	86.41	1.02	0.92	0.96
LowerTrib	20221.25	25-yr	47.13	129.61	88.26	6928.97	6931.75	6931.68	6932.01	0.032634	5.37	84.2	123.24	0.87	0.92	1.38
LowerTrib	20221.25	50-yr	77.62	160.95	154.43	6928.97	6931.99	6931.9	6932.27	0.032395	5.84	117.32	146.08	0.83	0.89	1.62
LowerTrib	20221.25	100-yr	102.9	177.72	208.38	6928.97	6932.16	6932.04	6932.44	0.029966	5.94	143.25	157.56	0.78	0.87	1.69
LowerTrib	20200.42	2-yr	0.12	36.88		6928.88	6930.04	6930.04	6930.21	0.088296	3.32	11.38	41.14	1.11	0.34	1.52
LowerTrib	20200.42	5-yr	7.46	59.09	0.45	6928.88	6930.22	6930.22	6930.4	0.060535	3.53	22.42	65.53	1.01	0.34	1.29
LowerTrib	20200.42	10-yr	21.63	90.29	3.07	6928.88	6930.39	6930.39	6930.62	0.059775	4.17	33.93	74.37	1	0.36	1.7
LowerTrib	20200.42	25-yr	68.03	175.1	21.87	6928.88	6930.73	6930.73	6931.09	0.06139	5.47	62.82	94.95	1.04	0.43	2.53
LowerTrib	20200.42	50-yr	109.75	235.43	47.82	6928.88	6930.97	6930.97	6931.38	0.057263	6.03	86.77	108.43	1.01	0.46	2.85
LowerTrib	20200.42	100-yr	141.79	280.02	67.19	6928.88	6931.1	6931.1	6931.57	0.058532	6.51	101.84	118.83	1.04	0.49	3.13
LowerTrib	20150.22	2-yr	0.6	24.87	11.53	6926.24	6926.97	6926.58	6926.97	0.001889	0.62	65.13	132.96	0.15	2.03	0.06
LowerTrib	20150.22	5-yr	2.39	43.66	20.95	6926.24	6927.18	6926.65	6927.19	0.001982	0.79	93.96	139.78	0.16	2.09	0.08

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	20150.22	10-yr	6.42	72.59	35.99	6926.24	6927.44		6927.46	0.002046	0.98	131.79	147.65	0.17	2.15	0.11
LowerTrib	20150.22	25-yr	24.7	160.18	80.12	6926.24	6928		6928.03	0.002349	1.4	224.47	175.71	0.19	2.42	0.19
LowerTrib	20150.22	50-yr	42.34	228.74	121.92	6926.24	6928.33		6928.37	0.002543	1.65	284.46	186	0.21	2.55	0.24
LowerTrib	20150.22	100-yr	56.74	278.8	153.46	6926.24	6928.55		6928.59	0.002664	1.81	324.62	192.94	0.22	2.65	0.28
LowerTrib	19810.83	2-yr		37		6924.53	6924.84	6924.84	6924.95	0.116035	2.69	13.74	60.48	1		1.65
LowerTrib	19810.83	5-yr		67		6924.53	6924.95	6924.95	6925.11	0.107937	3.21	20.85	66.66	1.01		2.11
LowerTrib	19810.83	10-yr		115		6924.53	6925.11	6925.11	6925.3	0.101904	3.48	33.04	89.74	1.01		2.34
LowerTrib	19810.83	25-yr		265		6924.53	6925.39	6925.39	6925.62	0.099788	3.84	69.01	159.19	1.03		2.7
LowerTrib	19810.83	50-yr		393		6924.53	6925.53	6925.53	6925.81	0.088878	4.22	93.18	171.23	1.01		3.02
LowerTrib	19810.83	100-yr		489		6924.53	6925.62	6925.62	6925.94	0.086985	4.51	108.38	177.09	1.02		3.32
LowerTrib	19800.9*	2-yr		37		6924.26	6924.74		6924.78	0.023965	1.61	23.01	70.18	0.49	0.23	0.49
LowerTrib	19800.9*	5-yr		67		6924.26	6924.92		6924.97	0.025864	1.67	40.18	122.92	0.51	0.26	0.53
LowerTrib	19800.9*	10-yr		115		6924.26	6925.06		6925.12	0.026543	1.95	59.12	146.33	0.54	0.27	0.67
LowerTrib	19800.9*	25-yr		265		6924.26	6925.36		6925.45	0.025853	2.51	105.41	174.12	0.57	0.26	0.98
LowerTrib	19800.9*	50-yr		393		6924.26	6925.54		6925.66	0.026166	2.83	138.88	193.81	0.59	0.26	1.17
LowerTrib	19800.9*	100-yr		489		6924.26	6925.65		6925.8	0.024868	3.01	162.23	198.22	0.59	0.23	1.27
LowerTrib	19791.1*	2-yr		37		6923.99	6924.51		6924.55	0.022696	1.52	24.3	78.94	0.48	0.25	0.44
LowerTrib	19791.1*	5-yr		67		6923.99	6924.66		6924.7	0.027277	1.68	39.78	127.52	0.53	0.27	0.53
LowerTrib	19791.1*	10-yr		115		6923.99	6924.78		6924.85	0.027315	2.04	56.48	136.4	0.56	0.27	0.71
LowerTrib	19791.1*	25-yr		265		6923.99	6925.09		6925.2	0.0266	2.57	102.99	171.62	0.59	0.26	1
LowerTrib	19791.1*	50-yr		393		6923.99	6925.27		6925.41	0.025657	2.91	134.96	181.78	0.6	0.24	1.19
LowerTrib	19791.1*	100-yr		489		6923.99	6925.42		6925.56	0.022218	3.01	162.63	187.38	0.57	0.19	1.2
LowerTrib	19781.2*	2-yr		37		6923.72	6924.26		6924.3	0.027582	1.5	24.64	99.08	0.53	0.27	0.43
LowerTrib	19781.2*	5-yr		67		6923.72	6924.38		6924.43	0.027848	1.76	38.06	121.35	0.55	0.28	0.55
LowerTrib	19781.2*	10-yr		115		6923.72	6924.51		6924.58	0.026464	2.12	54.33	126.49	0.57	0.26	0.71
LowerTrib	19781.2*	25-yr		265		6923.72	6924.83		6924.94	0.025922	2.67	99.38	161.12	0.6	0.25	1
LowerTrib	19781.2*	50-yr		393		6923.72	6925.03		6925.17	0.022898	2.94	133.64	170.44	0.59	0.2	1.12
LowerTrib	19781.2*	100-yr		489		6923.72	6925.24		6925.37	0.016868	2.87	170.17	178.61	0.52	0.15	1
LowerTrib	19771.3*	2-yr		37		6923.45	6924		6924.03	0.027838	1.51	24.46	100.21	0.54	0.27	0.42
LowerTrib	19771.3*	5-yr		67		6923.45	6924.1		6924.16	0.028158	1.84	36.35	111.66	0.57	0.27	0.57
LowerTrib	19771.3*	10-yr		115		6923.45	6924.24		6924.32	0.02685	2.21	51.97	117.14	0.59	0.26	0.74
LowerTrib	19771.3*	25-yr		265		6923.45	6924.57		6924.68	0.025532	2.76	96.07	149.79	0.61	0.24	1.02
LowerTrib	19771.3*	50-yr		393		6923.45	6924.84		6924.96	0.01829	2.84	138.38	160.79	0.54	0.15	0.98
LowerTrib	19771.3*	100-yr		489		6923.45	6925.12		6925.22	0.012026	2.64	184.97	174.7	0.45	0.1	0.79
LowerTrib	19761.5*	2-yr		37		6923.18	6923.72		6923.76	0.027405	1.55	23.86	97.64	0.55	0.27	0.42
LowerTrib	19761.5*	5-yr		67		6923.18	6923.83		6923.89	0.027083	1.93	34.77	101.81	0.58	0.26	0.58

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	19761.5*	10-yr		115		6923.18	6923.98		6924.06	0.024904	2.27	50.72	109.23	0.59	0.25	0.72
LowerTrib	19761.5*	25-yr		265		6923.18	6924.33		6924.45	0.022564	2.79	95.12	139.66	0.59	0.2	0.96
LowerTrib	19761.5*	50-yr		393		6923.18	6924.7		6924.81	0.012516	2.61	150.34	156.05	0.47	0.11	0.75
LowerTrib	19761.5*	100-yr		489		6923.18	6925.04		6925.12	0.008052	2.36	207.29	180.24	0.39	0.07	0.58
LowerTrib	19751.6*	2-yr		37		6922.91	6923.44		6923.48	0.028199	1.65	22.44	87.68	0.57	0.27	0.45
LowerTrib	19751.6*	5-yr		67		6922.91	6923.56		6923.63	0.026475	2.01	33.35	92.36	0.59	0.25	0.6
LowerTrib	19751.6*	10-yr		115		6922.91	6923.73		6923.81	0.026014	2.33	49.36	108.04	0.61	0.25	0.74
LowerTrib	19751.6*	25-yr		265		6922.91	6924.14		6924.25	0.01734	2.67	99.09	130.08	0.54	0.14	0.82
LowerTrib	19751.6*	50-yr		393		6922.91	6924.62		6924.7	0.008614	2.34	168.29	160.15	0.4	0.07	0.56
LowerTrib	19751.6*	100-yr		489		6922.91	6924.98		6925.06	0.004989	2.15	227.59	162.83	0.32	0.04	0.43
LowerTrib	19741.7*	2-yr		37		6922.64	6923.17		6923.22	0.025878	1.72	21.54	78.04	0.58	0.25	0.45
LowerTrib	19741.7*	5-yr		67		6922.64	6923.31		6923.37	0.024275	2.07	32.33	84.21	0.59	0.25	0.58
LowerTrib	19741.7*	10-yr		115		6922.64	6923.47		6923.56	0.024638	2.44	47.15	97.23	0.62	0.22	0.75
LowerTrib	19741.7*	25-yr		265		6922.64	6924.01		6924.11	0.011491	2.44	108.44	125.83	0.46	0.09	0.62
LowerTrib	19741.7*	50-yr		393		6922.64	6924.56		6924.63	0.005052	2.13	184.94	142.74	0.33	0.04	0.41
LowerTrib	19741.7*	100-yr		489		6922.64	6924.95		6925.01	0.003341	2.03	240.61	145.53	0.28	0.03	0.34
LowerTrib	19731.9*	2-yr		37		6922.37	6922.91		6922.96	0.02531	1.82	20.37	68.47	0.59	0.24	0.47
LowerTrib	19731.9*	5-yr		67		6922.37	6923.05		6923.12	0.025481	2.17	30.9	79.99	0.61	0.23	0.61
LowerTrib	19731.9*	10-yr		115		6922.37	6923.25		6923.34	0.021137	2.44	47.19	89.13	0.59	0.17	0.7
LowerTrib	19731.9*	25-yr		265		6922.37	6923.94		6924.01	0.007264	2.18	121.35	121.18	0.38	0.06	0.45
LowerTrib	19731.9*	50-yr		393		6922.37	6924.53		6924.59	0.003514	2.03	193.94	125.53	0.29	0.03	0.34
LowerTrib	19731.9*	100-yr		489		6922.37	6924.92		6924.98	0.002608	2	244.1	128.41	0.26	0.02	0.31
LowerTrib	19722.0*	2-yr		37		6922.1	6922.65		6922.71	0.024204	1.93	19.19	60.06	0.6	0.23	0.48
LowerTrib	19722.0*	5-yr		67		6922.1	6922.81		6922.89	0.021761	2.23	30	69.55	0.6	0.17	0.59
LowerTrib	19722.0*	10-yr		115		6922.1	6923.08		6923.16	0.014333	2.28	50.41	82.78	0.52	0.12	0.54
LowerTrib	19722.0*	25-yr		265		6922.1	6923.89		6923.95	0.004511	2.06	128.95	103.9	0.33	0.04	0.35
LowerTrib	19722.0*	50-yr		393		6922.1	6924.5		6924.56	0.002723	2.03	193.44	108.45	0.27	0.03	0.3
LowerTrib	19722.0*	100-yr		489		6922.1	6924.89		6924.96	0.002217	2.06	237.19	111.41	0.25	0.02	0.29
LowerTrib	19712.1*	2-yr		37		6921.83	6922.41		6922.47	0.022626	2	18.5	53.59	0.6	0.16	0.49
LowerTrib	19712.1*	5-yr		67		6921.83	6922.65		6922.72	0.014188	2.09	32.04	61.13	0.51	0.11	0.46
LowerTrib	19712.1*	10-yr		115		6921.83	6922.98		6923.05	0.009525	2.08	55.26	78.72	0.44	0.07	0.42
LowerTrib	19712.1*	25-yr		265		6921.83	6923.85		6923.91	0.003545	2.07	127.73	86.9	0.3	0.04	0.32
LowerTrib	19712.1*	50-yr	0	393		6921.83	6924.46		6924.53	0.002543	2.15	182.54	91.76	0.27	0.03	0.31
LowerTrib	19712.1*	100-yr	0.18	488.8	0.02	6921.83	6924.86		6924.94	0.002157	2.23	219.89	95.45	0.26	0.02	0.31
LowerTrib	19702.3*	2-yr		37		6921.56	6922.26		6922.31	0.012263	1.83	20.27	44.91	0.48	0.1	0.35
LowerTrib	19702.3*	5-yr		67		6921.56	6922.54		6922.6	0.00917	1.93	34.7	56.8	0.44	0.08	0.35

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	19702.3*	10-yr		115		6921.56	6922.91		6922.97	0.005952	2.02	56.89	62.83	0.37	0.06	0.34
LowerTrib	19702.3*	25-yr	0.02	264.98	0	6921.56	6923.8		6923.88	0.003363	2.28	116.16	70.51	0.31	0.04	0.34
LowerTrib	19702.3*	50-yr	0.95	391.78	0.27	6921.56	6924.41		6924.5	0.002595	2.47	161.05	75.64	0.3	0.04	0.34
LowerTrib	19702.3*	100-yr	2.39	485.69	0.92	6921.56	6924.81		6924.91	0.002339	2.61	191.65	79.28	0.29	0.04	0.35
LowerTrib	19692.4*	2-yr		37		6921.29	6922.15		6922.21	0.0089	1.8	20.53	37.48	0.43	0.19	0.3
LowerTrib	19692.4*	5-yr		67		6921.29	6922.45		6922.52	0.007319	2.04	32.76	42.69	0.41	0.17	0.35
LowerTrib	19692.4*	10-yr	0	115		6921.29	6922.82		6922.91	0.006185	2.34	49.23	46.41	0.4	0.16	0.41
LowerTrib	19692.4*	25-yr	1.67	262.75	0.59	6921.29	6923.71		6923.84	0.00432	2.91	93.58	53.79	0.39	0.15	0.47
LowerTrib	19692.4*	50-yr	5.51	385.02	2.47	6921.29	6924.31		6924.47	0.003764	3.25	127.47	59.44	0.39	0.15	0.5
LowerTrib	19692.4*	100-yr	10	474.41	4.59	6921.29	6924.69		6924.88	0.003556	3.47	151.26	63.49	0.39	0.15	0.52
LowerTrib	19682.6	2-yr		37		6921.02	6921.77	6921.77	6922.02	0.046196	4.01	9.22	18.39	1	0.57	1.44
LowerTrib	19682.6	5-yr	0	67		6921.02	6922.03	6922.03	6922.35	0.043657	4.52	14.84	23.93	1.01	0.58	1.68
LowerTrib	19682.6	10-yr	0.25	114.67	0.08	6921.02	6922.31	6922.31	6922.75	0.037854	5.34	21.82	26.4	1.03	0.66	1.94
LowerTrib	19682.6	25-yr	5.25	257.55	2.2	6921.02	6922.97	6922.97	6923.69	0.029822	6.87	41.3	31.77	1.05	0.83	2.39
LowerTrib	19682.6	50-yr	12.54	374.31	6.15	6921.02	6923.43	6923.43	6924.32	0.02685	7.73	56.53	35.94	1.06	0.93	2.6
LowerTrib	19682.6	100-yr	20.75	458.02	10.23	6921.02	6923.74	6923.74	6924.72	0.025083	8.21	67.99	38.79	1.06	0.97	2.7
LowerTrib	19619.02	2-yr	13.46	91.51	0.03	6919.14	6920.44		6920.51	0.005583	2.21	56.75	72.61	0.42	0.57	0.27
LowerTrib	19619.02	5-yr	31.47	154.04	0.5	6919.14	6920.8		6920.9	0.005627	2.73	84.26	79.64	0.43	0.55	0.37
LowerTrib	19619.02	10-yr	45.94	198.9	1.15	6919.14	6921.01		6921.14	0.005805	3.05	101.41	83.73	0.45	0.54	0.44
LowerTrib	19619.02	25-yr	79.76	296.86	3.39	6919.14	6921.38		6921.56	0.006389	3.68	133.6	91.56	0.49	0.57	0.58
LowerTrib	19619.02	50-yr	96.59	352.37	5.05	6919.14	6921.55		6921.76	0.006794	4.02	150.08	99.34	0.52	0.59	0.64
LowerTrib	19619.02	100-yr	119.29	402.81	6.9	6919.14	6921.71		6921.94	0.006987	4.27	165.84	101.8	0.53	0.6	0.71
LowerTrib	19570.53	2-yr	2.84	101.75	0.41	6918.33	6919.6	6919.6	6919.94	0.032852	4.73	24.81	47.05	1.13	0.37	1.08
LowerTrib	19570.53	5-yr	17.23	165.11	3.66	6918.33	6919.95	6919.95	6920.36	0.027249	5.43	44.55	68.29	1.12	0.35	1.11
LowerTrib	19570.53	10-yr	33.08	205.47	7.44	6918.33	6920.15	6920.15	6920.59	0.024944	5.77	59.36	79.61	1.09	0.33	1.16
LowerTrib	19570.53	25-yr	75.76	286.44	17.79	6918.33	6920.47	6920.47	6920.98	0.023816	6.5	87.68	93.58	1.05	0.33	1.39
LowerTrib	19570.53	50-yr	101.97	327.1	24.93	6918.33	6920.63	6920.63	6921.17	0.023265	6.81	102.44	98.95	1.02	0.32	1.5
LowerTrib	19570.53	100-yr	129.24	367.46	32.3	6918.33	6920.75	6920.75	6921.33	0.023467	7.15	115.41	102.84	1.02	0.32	1.64
LowerTrib	19557.19	2-yr	3.71	100.24	1.05	6918.07	6919.3	6919.16	6919.52	0.019241	3.83	31.5	55.62	0.88	2.77	0.68
LowerTrib	19557.19	5-yr	16.44	165.76	3.8	6918.07	6919.57	6919.5	6919.9	0.021734	4.86	48.51	68.37	0.97	2.84	0.96
LowerTrib	19557.19	10-yr	28.44	211.1	6.46	6918.07	6919.72	6919.68	6920.13	0.023744	5.5	59.07	74.8	1.02	2.86	1.17
LowerTrib	19557.19	25-yr	63.03	302.82	14.15	6918.07	6920.01	6920.01	6920.54	0.025165	6.47	82.35	85.19	1.05	2.73	1.52
LowerTrib	19557.19	50-yr	85.75	348.85	19.39	6918.07	6920.16	6920.16	6920.73	0.024707	6.81	95.7	90.03	1.04	2.61	1.64
LowerTrib	19557.19	100-yr	109.62	394.45	24.92	6918.07	6920.3	6920.3	6920.91	0.024644	7.14	108.28	94.61	1.04	2.55	1.76
LowerTrib	19477	2-yr		52.23	52.77	6915.9	6916.5	6916.5	6916.74	0.079026	4.08	26.82	60.21	1.04	2.67	2.19
LowerTrib	19477	5-yr	0.23	108.82	76.95	6915.9	6916.72	6916.72	6917.06	0.067256	5.14	40.71	68.19	1.07	2.65	2.5

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	19477	10-yr	1.41	151.22	93.38	6915.9	6916.86	6916.86	6917.26	0.059431	5.65	50.95	73.93	1.08	2.56	2.55
LowerTrib	19477	25-yr	8.12	242.68	129.2	6915.9	6917.15	6917.15	6917.65	0.047939	6.4	73.82	85.38	1.07	5.59	2.58
LowerTrib	19477	50-yr	13.89	291.14	148.97	6915.9	6917.29	6917.29	6917.83	0.044442	6.73	85.95	90.87	1.07	5.2	2.62
LowerTrib	19477	100-yr	20.88	339.01	169.12	6915.9	6917.41	6917.41	6918	0.042272	7.05	97.62	95.86	1.07	5.06	2.68
LowerTrib	19350.22	2-yr	0.03	104.97	0	6910.3	6911.09		6911.15	0.009292	1.92	54.68	101.06	0.46	8.63	0.31
LowerTrib	19350.22	5-yr	0.45	185.38	0.17	6910.3	6911.31		6911.4	0.009643	2.44	77.03	106	0.5	8.68	0.44
LowerTrib	19350.22	10-yr	1.1	244.42	0.48	6910.3	6911.45		6911.56	0.009573	2.72	92.08	108.83	0.52	8.7	0.51
LowerTrib	19350.22	25-yr	0.92	378.74	0.34	6910.3	6911.31	6911.31	6911.7	0.040249	4.99	77.03	106	1.03	8.4	1.83
LowerTrib	19350.22	50-yr	1.77	451.48	0.75	6910.3	6911.41	6911.41	6911.84	0.037479	5.24	88.11	108.09	1.02	7.2	1.91
LowerTrib	19350.22	100-yr	2.78	524.96	1.26	6910.3	6911.5	6911.5	6911.97	0.037262	5.56	97.26	109.79	1.04	6.12	2.06
LowerTrib	18950.22	2-yr		2.49	102.51	6902.26	6902.36	6902.36	6902.52	0.09486	1.39	33.46	104.72	1	0.62	1.89
LowerTrib	18950.22	5-yr		22.89	163.11	6902.26	6902.52	6902.52	6902.73	0.086457	2.85	51.73	120.53	0.98	0.1	2.32
LowerTrib	18950.22	10-yr		40.98	205.02	6902.26	6902.6	6902.6	6902.85	0.089237	3.56	61.24	127.1	1.01	0.12	2.78
LowerTrib	18950.22	25-yr	39.66	115.81	224.52	6902.26	6903.18	6902.79	6903.27	0.012658	2.77	170.77	212.84	0.47	0.08	0.63
LowerTrib	18950.22	50-yr	60.21	144.51	249.28	6902.26	6903.34	6902.84	6903.43	0.010321	2.85	205.39	215.52	0.43	0.09	0.61
LowerTrib	18950.22	100-yr	83.49	173.74	271.77	6902.26	6903.53	6902.94	6903.61	0.008046	2.85	245.88	218.62	0.39	0.1	0.56
LowerTrib	18550.22	2-yr	16.81	31.29	56.9	6898.94	6900.41		6900.42	0.00041	0.58	279.97	356.38	0.08	0.02	0.02
LowerTrib	18550.22	5-yr	53.95	47.25	84.8	6898.94	6902.29		6902.29	0.000024	0.29	1002.54	400.76	0.02	0	0
LowerTrib	18550.22	10-yr	73.27	61.44	111.28	6898.94	6902.67		6902.67	0.000027	0.33	1155.09	404.47	0.02	0	0
LowerTrib	18550.22	25-yr	116.21	93.2	170.59	6898.94	6903.19		6903.19	0.000037	0.43	1365.7	409.43	0.03	0	0.01
LowerTrib	18550.22	50-yr	139.69	110.86	203.45	6898.94	6903.34		6903.34	0.000046	0.5	1426.78	410.88	0.03	0	0.01
LowerTrib	18550.22	100-yr	163.85	128.55	236.6	6898.94	6903.51		6903.52	0.000053	0.55	1499.16	412.59	0.04	0	0.01
LowerTrib	18507.3*	2-yr	6.76	51.37	46.86	6898.54	6900.39		6900.39	0.000706	0.85	209.31	330.51	0.14	0.04	0.03
LowerTrib	18507.3*	5-yr	46.88	55.92	83.2	6898.54	6902.29		6902.29	0.00003	0.34	919.77	400.36	0.03	0	0
LowerTrib	18507.3*	10-yr	64.65	70.81	110.54	6898.54	6902.67		6902.67	0.000033	0.38	1072.32	404.89	0.03	0	0.01
LowerTrib	18507.3*	25-yr	103.97	104.46	171.57	6898.54	6903.19		6903.19	0.000044	0.49	1283.06	410.87	0.03	0	0.01
LowerTrib	18507.3*	50-yr	125.39	123.43	205.18	6898.54	6903.34		6903.34	0.000055	0.56	1344.38	412.68	0.04	0	0.01
LowerTrib	18507.3*	100-yr	147.55	142.09	239.36	6898.54	6903.51		6903.51	0.000063	0.62	1416.9	414.71	0.04	0	0.01
LowerTrib	18464.4*	2-yr	1.61	72.78	30.6	6898.15	6900.34		6900.36	0.000962	1.11	156.21	256.54	0.21	0.04	0.04
LowerTrib	18464.4*	5-yr	39.72	65.94	80.33	6898.15	6902.29		6902.29	0.000038	0.4	832.73	394.78	0.03	0	0.01
LowerTrib	18464.4*	10-yr	56.29	81.78	107.93	6898.15	6902.67		6902.67	0.000041	0.44	984.14	403.72	0.03	0	0.01
LowerTrib	18464.4*	25-yr	92.3	117.43	170.28	6898.15	6903.19		6903.19	0.000054	0.56	1194.47	411.38	0.04	0	0.01
LowerTrib	18464.4*	50-yr	111.75	137.83	204.42	6898.15	6903.33		6903.34	0.000066	0.63	1255.7	413.55	0.04	0	0.01
LowerTrib	18464.4*	100-yr	132.03	157.51	239.46	6898.15	6903.51		6903.51	0.000076	0.69	1328.2	416.01	0.05	0	0.02
LowerTrib	18421.6*	2-yr	0	85.47	19.53	6897.75	6900.3		6900.32	0.000923	1.21	124.61	167.17	0.23	0.03	0.04
LowerTrib	18421.6*	5-yr	32.21	76.73	77.06	6897.75	6902.29		6902.29	0.000048	0.47	745.86	380.49	0.04	0	0.01

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	18421.6*	10-yr	47.61	93.77	104.62	6897.75	6902.67		6902.67	0.000051	0.51	892.52	393.97	0.04	0	0.01
LowerTrib	18421.6*	25-yr	80.88	132.31	166.81	6897.75	6903.18		6903.18	0.000067	0.64	1100.21	409.5	0.05	0	0.01
LowerTrib	18421.6*	50-yr	98.47	154.37	201.16	6897.75	6903.33		6903.33	0.000081	0.72	1160.81	412.44	0.05	0	0.01
LowerTrib	18421.6*	100-yr	117.04	175.23	236.74	6897.75	6903.5		6903.51	0.000092	0.79	1233	415.87	0.05	0	0.02
LowerTrib	18378.7*	2-yr		90.07	14.93	6897.35	6900.26		6900.28	0.00072	1.19	119.07	126.27	0.2	0.03	0.04
LowerTrib	18378.7*	5-yr	24.63	83.74	77.64	6897.35	6902.29		6902.29	0.000054	0.51	673.25	336.8	0.05	0	0.01
LowerTrib	18378.7*	10-yr	38.67	105.76	101.57	6897.35	6902.66		6902.67	0.000062	0.59	803.73	375.01	0.05	0	0.01
LowerTrib	18378.7*	25-yr	69.1	147.79	163.11	6897.35	6903.18		6903.18	0.000082	0.73	1002.54	397.84	0.06	0	0.01
LowerTrib	18378.7*	50-yr	85.25	172.45	196.3	6897.35	6903.32		6903.33	0.000101	0.83	1061.39	405.73	0.06	0	0.02
LowerTrib	18378.7*	100-yr	102.33	194.99	231.68	6897.35	6903.5		6903.5	0.000114	0.9	1132.38	412.08	0.07	0.01	0.02
LowerTrib	18335.8*	2-yr		92.09	12.91	6896.95	6900.24		6900.25	0.000535	1.14	123.53	108.03	0.18	0.02	0.04
LowerTrib	18335.8*	5-yr	18.9	93	74.1	6896.95	6902.28		6902.28	0.000063	0.58	614.54	323.58	0.06	0	0.01
LowerTrib	18335.8*	10-yr	29.58	111.73	104.69	6896.95	6902.66		6902.66	0.000068	0.63	738.97	334.19	0.05	0	0.01
LowerTrib	18335.8*	25-yr	54.25	154.98	170.77	6896.95	6903.17		6903.18	0.00009	0.78	913.86	346.88	0.06	0	0.01
LowerTrib	18335.8*	50-yr	67.68	180.37	205.94	6896.95	6903.32		6903.32	0.000111	0.89	965.33	371.98	0.07	0.01	0.02
LowerTrib	18335.8*	100-yr	86.19	213.22	229.59	6896.95	6903.49		6903.5	0.000138	1.01	1031.33	392.29	0.08	0.01	0.02
LowerTrib	18292.9*	2-yr		93.36	11.64	6896.56	6900.22		6900.23	0.000406	1.09	129.33	105.01	0.16	0.02	0.03
LowerTrib	18292.9*	5-yr	14.03	102.59	69.39	6896.56	6902.28		6902.28	0.000075	0.65	559.17	313.6	0.07	0.01	0.01
LowerTrib	18292.9*	10-yr	23.56	121.63	100.81	6896.56	6902.66		6902.66	0.000079	0.7	679.38	321.55	0.06	0.01	0.01
LowerTrib	18292.9*	25-yr	43.62	166.47	169.91	6896.56	6903.17		6903.17	0.000105	0.87	847.44	335.78	0.07	0.02	0.02
LowerTrib	18292.9*	50-yr	54.21	193.12	206.67	6896.56	6903.31		6903.32	0.000129	0.98	895.95	340.28	0.08	0.03	0.02
LowerTrib	18292.9*	100-yr	66.65	217.36	244.99	6896.56	6903.48		6903.49	0.000147	1.07	954.55	343.67	0.08	0.03	0.03
LowerTrib	18250.1	2-yr		105		6896.16	6900.18	6897.33	6900.21	0.000443	1.33	79.08	102.75	0.13		0.09
LowerTrib	18250.1	5-yr		170.98	15.02	6896.16	6902.24	6897.77	6902.27	0.000233	1.33	190.06	282.61	0.17		0.03
LowerTrib	18250.1	10-yr		215.9	30.1	6896.16	6902.61	6898.07	6902.65	0.000298	1.57	232.83	309.24	0.19		0.03
LowerTrib	18250.1	25-yr		308.17	71.83	6896.16	6903.1	6898.65	6903.15	0.000464	2.07	297.32	320.9	0.22		0.06
LowerTrib	18250.1	50-yr		360.25	93.75	6896.16	6903.22	6898.94	6903.29	0.000593	2.37	314.13	324.44	0.25		0.08
LowerTrib	18250.1	100-yr		408.63	120.37	6896.16	6903.37	6899.19	6903.46	0.000705	2.63	335.04	329.13	0.26		0.11
LowerTrib	18205.02		Culvert													
LowerTrib	18166.18	2-yr		105		6894.83	6896.92	6896.03	6897.06	0.004657	2.92	35.92	22.56	0.38	0.16	0.5
LowerTrib	18166.18	5-yr	5.49	178.67	1.84	6894.83	6898.76	6896.5	6898.83	0.001194	2.15	100.21	75.11	0.32	0.08	0.1
LowerTrib	18166.18	10-yr	14.17	194.17	37.66	6894.83	6900.01	6896.79	6900.05	0.000498	1.71	217.86	104.38	0.19	0.05	0.06
LowerTrib	18166.18	25-yr	29.06	241.58	109.37	6894.83	6901.53	6897.38	6901.56	0.000303	1.61	398.93	133.51	0.13	0.05	0.05
LowerTrib	18166.18	50-yr	34.76	288.24	131	6894.83	6901.54	6897.65	6901.58	0.000428	1.91	400.3	133.7	0.16	0.07	0.08
LowerTrib	18166.18	100-yr	40.57	335.25	153.18	6894.83	6901.56	6897.94	6901.61	0.000575	2.22	402.2	133.95	0.19	0.1	0.1

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	18119.34	2-yr		105		6892.33	6896.8	6894.24	6896.9	0.002118	2.49	42.18	11.39	0.23		0.32
LowerTrib	18119.34	5-yr		186		6892.33	6898.65	6894.96	6898.74	0.002118	2.52	73.77	24.34	0.25		0.33
LowerTrib	18119.34	10-yr		246		6892.33	6899.92	6895.45	6900	0.001315	2.34	105.04	71.41	0.21		0.26
LowerTrib	18119.34	25-yr		380		6892.33	6901.4	6896.33	6901.51	0.001105	2.65	143.66	283.58	0.2		0.3
LowerTrib	18119.34	50-yr		454		6892.33	6901.35	6896.79	6901.51	0.001625	3.19	142.38	276.78	0.24		0.44
LowerTrib	18119.34	100-yr		529		6892.33	6901.29	6897.48	6901.51	0.002291	3.76	140.78	267.37	0.28		0.61
LowerTrib	18092.76		Culvert													
LowerTrib	18065.8	2-yr		105		6892.37	6895.24	6894.53	6895.48	0.015141	3.93	26.74	20.24	0.5	0.72	1.74
LowerTrib	18065.8	5-yr		186		6892.37	6895.96	6895.11	6896.35	0.016444	5.06	36.76	26.68	0.55	0.89	2.6
LowerTrib	18065.8	10-yr		246		6892.37	6896.3	6895.42	6896.84	0.019077	5.92	41.58	33.27	0.61	1.04	3.41
LowerTrib	18065.8	25-yr		380		6892.37	6896.81	6896.19	6897.75	0.026934	7.81	48.67	52.11	0.74	1.4	5.64
LowerTrib	18065.8	50-yr		454		6892.37	6896.99	6896.55	6898.21	0.0324	8.86	51.23	58.12	0.82	1.63	7.14
LowerTrib	18065.8	100-yr		529		6892.37	6897.15	6896.9	6898.67	0.038299	9.91	53.41	63.21	0.89	1.88	8.8
LowerTrib	18019.2*	2-yr		105		6891.79	6894.59		6894.75	0.014413	3.25	32.32	21.66	0.47	0.73	1.3
LowerTrib	18019.2*	5-yr	0.05	185.95		6891.79	6895.25		6895.46	0.017889	3.7	50.4	35.58	0.55	0.86	1.54
LowerTrib	18019.2*	10-yr	1.91	244.09		6891.79	6895.56		6895.81	0.019034	3.98	63.44	47.63	0.61	0.9	1.55
LowerTrib	18019.2*	25-yr	14.88	365.12		6891.79	6896.04		6896.35	0.020344	4.52	90.19	63.56	0.66	0.97	1.77
LowerTrib	18019.2*	50-yr	25.08	428.92		6891.79	6896.24		6896.58	0.020803	4.81	102.83	68.15	0.67	0.98	1.93
LowerTrib	18019.2*	100-yr	34.7	494.3		6891.79	6896.41		6896.79	0.021458	5.09	116.11	79.95	0.72	0.99	1.92
LowerTrib	17972.7*	2-yr		105		6891.2	6893.88		6894.03	0.016713	3.09	34.02	27.89	0.49	0.89	1.24
LowerTrib	17972.7*	5-yr	1.5	184.5		6891.2	6894.4		6894.6	0.019015	3.6	53.09	46.23	0.59	0.98	1.34
LowerTrib	17972.7*	10-yr	6.24	239.76		6891.2	6894.67		6894.9	0.019657	3.89	66.63	55.81	0.62	1.01	1.44
LowerTrib	17972.7*	25-yr	22.11	357.89		6891.2	6895.07		6895.38	0.021428	4.57	91.9	72.39	0.7	1.02	1.68
LowerTrib	17972.7*	50-yr	38.62	415.38		6891.2	6895.27		6895.6	0.021206	4.78	106.44	75.5	0.68	1.04	1.84
LowerTrib	17972.7*	100-yr	55.58	473.42		6891.2	6895.45		6895.8	0.020821	4.98	120.53	79.58	0.68	1.05	1.95
LowerTrib	17926.2*	2-yr	0.02	104.98		6890.62	6892.98		6893.14	0.022187	3.15	33.36	34.94	0.57	0.79	1.31
LowerTrib	17926.2*	5-yr	3.66	182.34		6890.62	6893.41		6893.62	0.023636	3.76	51.74	51.49	0.65	0.86	1.47
LowerTrib	17926.2*	10-yr	8.53	237.47		6890.62	6893.63		6893.89	0.024133	4.14	64.05	63.15	0.71	0.87	1.51
LowerTrib	17926.2*	25-yr	34.33	345.67	0	6890.62	6894.05		6894.36	0.022474	4.62	92.22	71.53	0.69	0.95	1.79
LowerTrib	17926.2*	50-yr	48.61	405.35	0.04	6890.62	6894.2		6894.56	0.023561	5	103.25	75.12	0.72	0.95	2
LowerTrib	17926.2*	100-yr	62.27	466.57	0.16	6890.62	6894.35		6894.75	0.024501	5.35	114.54	82.05	0.76	0.97	2.12
LowerTrib	17879.6*	2-yr	2.4	102.6		6890.04	6892.25	6891.69	6892.35	0.012771	2.51	43.86	50.94	0.47	1.25	0.68
LowerTrib	17879.6*	5-yr	12.67	173.32	0.01	6890.04	6892.62	6892.08	6892.76	0.014233	3.15	65.05	63.01	0.53	1.25	0.91
LowerTrib	17879.6*	10-yr	23.43	222.45	0.11	6890.04	6892.84	6892.32	6893.01	0.014313	3.49	80.05	70.97	0.56	1.26	1
LowerTrib	17879.6*	25-yr	45.96	333.17	0.87	6890.04	6893.14	6892.65	6893.41	0.018413	4.42	105.15	100.46	0.72	1.27	1.2
LowerTrib	17879.6*	50-yr	75.09	377.08	1.83	6890.04	6893.33	6892.86	6893.61	0.017076	4.54	125.25	105.39	0.68	1.29	1.26

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	17879.6*	100-yr	103.97	421.86	3.18	6890.04	6893.49	6892.98	6893.78	0.016841	4.73	142.09	109.54	0.67	1.28	1.36
LowerTrib	17833.1*	2-yr	0.1	104.9		6889.45	6890.77	6890.77	6891.1	0.0824	4.64	22.76	37.33	1.05	0.84	3.12
LowerTrib	17833.1*	5-yr	6.18	179.82	0	6889.45	6891.1	6891.1	6891.51	0.064629	5.2	38.12	52.47	1.06	0.89	2.92
LowerTrib	17833.1*	10-yr	14.17	231.74	0.09	6889.45	6891.27	6891.27	6891.75	0.063722	5.74	47.15	59.78	1.11	0.95	3.13
LowerTrib	17833.1*	25-yr	57.25	321.46	1.29	6889.45	6891.67	6891.67	6892.13	0.043121	5.82	79.19	84	0.99	0.95	2.53
LowerTrib	17833.1*	50-yr	77.13	374.95	1.92	6889.45	6891.75	6891.75	6892.31	0.049601	6.45	85.84	85.18	1.05	1.03	3.11
LowerTrib	17833.1*	100-yr	98.55	427.3	3.15	6889.45	6891.89	6891.83	6892.49	0.049158	6.78	97.66	94.15	1.08	1.05	3.17
LowerTrib	17786.62	2-yr	26.73	66.92	0.35	6888.87	6890.21		6890.25	0.006133	1.79	65.12	83.97	0.32	0.54	0.3
LowerTrib	17786.62	5-yr	58.42	110.51	1.08	6888.87	6890.54		6890.6	0.007173	2.29	94.45	96.08	0.36	0.59	0.44
LowerTrib	17786.62	10-yr	81.64	136.69	1.67	6888.87	6890.7		6890.77	0.007666	2.55	110.57	100.12	0.37	0.64	0.53
LowerTrib	17786.62	25-yr	145.59	201.03	3.38	6888.87	6890.99		6891.1	0.009547	3.17	139.91	102.58	0.41	0.6	0.81
LowerTrib	17786.62	50-yr	182.22	233.28	4.51	6888.87	6891.14		6891.28	0.009897	3.41	155.89	103.89	0.42	0.57	0.92
LowerTrib	17786.62	100-yr	219.68	264.55	5.77	6888.87	6891.29		6891.44	0.010063	3.6	171.56	105.16	0.42	0.55	1.02
LowerTrib	17750.22	2-yr	26.57	67.43		6888.41	6889.51	6889.51	6889.72	0.06475	4.15	29.45	71.47	1.01	0.33	1.66
LowerTrib	17750.22	5-yr	66.25	103.75		6888.41	6889.74	6889.74	6890	0.059571	4.74	47.73	85.57	0.95	0.35	2.07
LowerTrib	17750.22	10-yr	94.12	125.88		6888.41	6889.83	6889.83	6890.13	0.064788	5.22	55.35	86.58	0.97	0.37	2.58
LowerTrib	17750.22	25-yr	184.61	165.21	0.18	6888.41	6890.26		6890.51	0.032519	4.71	93.39	89.46	0.69	0.29	2.11
LowerTrib	17750.22	50-yr	231.15	188.29	0.57	6888.41	6890.46		6890.71	0.026905	4.68	111.36	91.16	0.63	0.27	2.04
LowerTrib	17750.22	100-yr	277.17	211.54	1.29	6888.41	6890.65		6890.9	0.023512	4.71	128.27	93.06	0.6	0.26	2.01
LowerTrib	17731.24	2-yr	11.23	82.65	0.12	6885.62	6888.92		6889.03	0.006993	2.85	44.43	64.45	0.57	0.55	0.29
LowerTrib	17731.24	5-yr	52.19	116.67	1.15	6885.62	6889.38		6889.51	0.007569	3.36	79.57	83.79	0.52	0.57	0.44
LowerTrib	17731.24	10-yr	84.99	132.81	2.2	6885.62	6889.61		6889.74	0.007508	3.53	99.05	87.12	0.48	0.59	0.52
LowerTrib	17731.24	25-yr	174.21	169.94	5.85	6885.62	6890.08		6890.22	0.007538	3.89	141.4	93.52	0.43	0.61	0.7
LowerTrib	17731.24	50-yr	224.16	187.55	8.29	6885.62	6890.28		6890.43	0.007537	4.05	161.12	95.22	0.42	0.62	0.78
LowerTrib	17731.24	100-yr	274.58	204.36	11.06	6885.62	6890.48		6890.63	0.007536	4.19	179.59	96.79	0.41	0.63	0.86
LowerTrib	17651.3	2-yr	39.86	52.37	1.77	6886.43	6888.43		6888.49	0.006317	2.25	58.63	67.17	0.35	4.14	0.34
LowerTrib	17651.3	5-yr	84.03	78.46	7.51	6886.43	6888.87		6888.94	0.006272	2.64	89.66	75.05	0.34	4.21	0.46
LowerTrib	17651.3	10-yr	113.08	95.81	11.12	6886.43	6889.06		6889.15	0.006869	2.94	104.69	82.02	0.37	4.28	0.54
LowerTrib	17651.3	25-yr	185.67	135.04	29.29	6886.43	6889.49	6888.62	6889.6	0.007608	3.48	140.8	89.22	0.39	4.5	0.74
LowerTrib	17651.3	50-yr	224.49	154.74	40.77	6886.43	6889.68	6888.75	6889.81	0.007878	3.72	158.44	92.82	0.4	4.63	0.83
LowerTrib	17651.3	100-yr	262.26	173.23	54.51	6886.43	6889.86	6888.88	6890.01	0.008044	3.91	175.2	94.73	0.4	4.73	0.92
LowerTrib	17350.22	2-yr		94		6882.76	6884.14		6884.33	0.049432	3.58	26.27	39.56	0.77	5.68	2.04
LowerTrib	17350.22	5-yr		169.11	0.89	6882.76	6884.44	6884.32	6884.72	0.053436	4.26	41.46	93.44	1.12	5.69	1.48
LowerTrib	17350.22	10-yr	0.6	203.06	16.34	6882.76	6884.61	6884.61	6884.86	0.044653	4.21	62.69	152.09	1.11	5.22	1.15
LowerTrib	17350.22	25-yr	14.17	275.98	59.85	6882.76	6884.83	6884.83	6885.1	0.04141	4.55	103.69	206.42	1.03	5.05	1.3
LowerTrib	17350.22	50-yr	25.64	312.16	82.2	6882.76	6884.91	6884.91	6885.19	0.041754	4.8	120.58	212.93	1	4.97	1.47

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	17350.22	100-yr	37.83	347.43	104.74	6882.76	6884.98	6884.98	6885.28	0.042792	5.04	135.33	218.53	0.99	4.94	1.65
LowerTrib	16950.22	2-yr	4.97	58.69	30.34	6876.85	6878.62		6878.65	0.006553	1.69	65.9	90.26	0.32	4.56	0.3
LowerTrib	16950.22	5-yr	18.3	97.18	54.52	6876.85	6878.98		6879.03	0.00635	2.05	101.29	102.36	0.32	4.52	0.39
LowerTrib	16950.22	10-yr	29.96	120.49	69.56	6876.85	6879.19		6879.24	0.006039	2.2	122.9	105.62	0.31	4.52	0.44
LowerTrib	16950.22	25-yr	62.08	178.97	108.95	6876.85	6879.61		6879.69	0.005925	2.57	171.16	140.5	0.35	4.44	0.45
LowerTrib	16950.22	50-yr	80.15	208.21	131.64	6876.85	6879.82	6878.83	6879.9	0.005771	2.71	203.4	174.17	0.37	4.43	0.42
LowerTrib	16950.22	100-yr	105.81	248.38	135.8	6876.85	6880.07		6880.16	0.005668	2.89	252.36	200.32	0.36	4.48	0.44
LowerTrib	16550.22	2-yr	0.8	92.91	0.29	6872.76	6873.95		6874.09	0.024454	3.01	31.96	41.17	0.6	3.78	1.18
LowerTrib	16550.22	5-yr	4.13	164.26	1.61	6872.76	6874.29		6874.51	0.025209	3.82	46.8	45.69	0.66	3.64	1.61
LowerTrib	16550.22	10-yr	7.04	210.15	2.81	6872.76	6874.45		6874.73	0.027833	4.34	53.87	47.7	0.71	3.61	1.95
LowerTrib	16550.22	25-yr	18.28	323.92	7.8	6872.76	6874.86		6875.24	0.027271	5.13	74.83	54.16	0.75	3.68	2.34
LowerTrib	16550.22	50-yr	25.61	384.33	10.06	6872.76	6875.02		6875.47	0.028508	5.56	84.07	58.2	0.79	3.74	2.56
LowerTrib	16550.22	100-yr	33.5	444.25	12.25	6872.76	6875.15		6875.68	0.030684	6.03	91.92	62.64	0.84	3.8	2.8
LowerTrib	16407.75	2-yr		94		6868.86	6870.14	6869.86	6870.31	0.028702	3.34	28.14	31.23	0.62	0.86	1.6
LowerTrib	16407.75	5-yr	0.04	169.96		6868.86	6870.69	6870.23	6870.88	0.025679	3.48	48.99	49.51	0.62	0.76	1.58
LowerTrib	16407.75	10-yr	1.1	218.9		6868.86	6870.91	6870.46	6871.12	0.022821	3.68	60.88	56.61	0.62	0.68	1.52
LowerTrib	16407.75	25-yr	11.9	338.1		6868.86	6871.27	6870.88	6871.56	0.024067	4.37	89.49	112.04	0.85	0.79	1.2
LowerTrib	16407.75	50-yr	28.34	391.64	0.02	6868.86	6871.43	6871.03	6871.73	0.023615	4.61	109.38	144.38	0.9	0.81	1.11
LowerTrib	16407.75	100-yr	54.43	435.44	0.13	6868.86	6871.56	6871.3	6871.88	0.022605	4.74	129.43	151.53	0.86	0.8	1.2
LowerTrib	16357.76	2-yr		94		6867.68	6869.36		6869.46	0.010911	2.43	38.66	33.33	0.4	0.34	0.78
LowerTrib	16357.76	5-yr	0.07	169.88	0.04	6867.68	6870		6870.11	0.00959	2.7	63.54	63.31	0.47	0.36	0.6
LowerTrib	16357.76	10-yr	12.27	206.82	0.91	6867.68	6870.34		6870.44	0.008321	2.6	98.19	119.3	0.49	0.35	0.43
LowerTrib	16357.76	25-yr	43.71	303.38	2.91	6867.68	6870.63		6870.77	0.01021	3.22	134.87	135.78	0.54	0.33	0.63
LowerTrib	16357.76	50-yr	65.05	350.56	4.39	6867.68	6870.77		6870.93	0.010606	3.45	155.24	147.07	0.55	0.34	0.7
LowerTrib	16357.76	100-yr	89.34	394.67	6	6867.68	6870.9		6871.07	0.010974	3.65	174.34	155.33	0.56	0.35	0.77
LowerTrib	16337.02	2-yr	1.9	91.08	1.02	6866.75	6868.84	6868.48	6869.11	0.024392	4.24	23.36	19.96	0.68	2.52	1.73
LowerTrib	16337.02	5-yr	7.95	158.38	3.67	6866.75	6869.29	6869.03	6869.75	0.029991	5.63	34.3	29.77	0.9	2.74	2.11
LowerTrib	16337.02	10-yr	14.04	198.93	7.03	6866.75	6869.52	6869.32	6870.09	0.032535	6.32	44.79	84.94	1.46	2.86	1.06
LowerTrib	16337.02	25-yr	86.22	236.44	27.35	6866.75	6870.03	6870.03	6870.44	0.022561	6.07	98.51	120	0.99	2.12	1.15
LowerTrib	16337.02	50-yr	121.96	261.43	36.6	6866.75	6870.17	6870.17	6870.59	0.023472	6.39	114.91	127.84	0.97	2.14	1.31
LowerTrib	16337.02	100-yr	160.96	282.7	46.34	6866.75	6870.3	6870.3	6870.72	0.023621	6.61	131.9	135.66	0.94	2.15	1.43
LowerTrib	16267.61	2-yr	0.79	91.11	2.09	6865.2	6866.28	6866.26	6866.59	0.059368	4.47	22.52	38.61	1.02	3.46	2.16
LowerTrib	16267.61	5-yr	3.63	152.28	14.09	6865.2	6866.61	6866.61	6867.01	0.0533	5.32	37.39	52.2	1.06	3.07	2.38
LowerTrib	16267.61	10-yr	5.79	188.36	25.84	6865.2	6866.77	6866.77	6867.23	0.052559	5.77	46.18	58.54	1.07	2.92	2.58
LowerTrib	16267.61	25-yr	18.96	265.6	65.44	6865.2	6867.17	6867.17	6867.65	0.043018	6.23	74.57	84.66	1.05	2.7	2.36
LowerTrib	16267.61	50-yr	30.52	302.46	87.02	6865.2	6867.32	6867.32	6867.83	0.041826	6.51	88.14	93.47	1.04	2.71	2.46

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	16267.61	100-yr	43.36	338.2	108.45	6865.2	6867.44	6867.44	6867.99	0.0419	6.81	100.43	100.98	1.04	2.76	2.6
LowerTrib	16120.9	2-yr		94		6861.77	6863.08		6863.13	0.012155	1.8	52.27	77.35	0.39	4.05	0.51
LowerTrib	16120.9	5-yr		170		6861.77	6863.47		6863.52	0.010531	1.84	92.63	119.49	0.37	4.1	0.51
LowerTrib	16120.9	10-yr		220		6861.77	6863.63		6863.69	0.009777	1.96	112.11	123.7	0.36	4.01	0.55
LowerTrib	16120.9	25-yr	0.03	349.97	0	6861.77	6863.95		6864.04	0.009483	2.28	153.49	136.98	0.38	3.97	0.66
LowerTrib	16120.9	50-yr	0.16	418.76	1.07	6861.77	6864.09		6864.18	0.009626	2.44	174.96	180.03	0.44	3.91	0.58
LowerTrib	16120.9	100-yr	0.38	484.97	4.64	6861.77	6864.2		6864.3	0.009869	2.61	194.45	184.5	0.45	3.83	0.65
LowerTrib	15716.56	2-yr	24.84	78.44	7.72	6857.83	6859.03		6859.07	0.008607	1.85	98.87	161.03	0.36	1.85	0.33
LowerTrib	15716.56	5-yr	58.93	141.19	21.88	6857.83	6859.37		6859.43	0.009835	2.44	158.37	204.2	0.4	1.71	0.48
LowerTrib	15716.56	10-yr	88.46	189.21	30.33	6857.83	6859.6		6859.68	0.010026	2.76	215.25	278.14	0.45	1.66	0.48
LowerTrib	15716.56	25-yr	144.12	275.18	87.7	6857.83	6859.97		6860.06	0.010061	3.21	322.81	304.02	0.42	1.5	0.67
LowerTrib	15716.56	50-yr	179.95	319.72	127.33	6857.83	6860.17		6860.26	0.00971	3.37	383.02	309.78	0.4	1.42	0.75
LowerTrib	15716.56	100-yr	219.73	366.21	175.06	6857.83	6860.37		6860.48	0.009217	3.5	447.92	312.78	0.38	1.36	0.82
LowerTrib	15294	2-yr		111		6855.75	6857.21		6857.22	0.002625	0.91	121.81	158.59	0.18	0.44	0.13
LowerTrib	15294	5-yr		222	0	6855.75	6857.7		6857.72	0.002167	1.09	204.07	178.2	0.18	0.46	0.15
LowerTrib	15294	10-yr		307.33	0.67	6855.75	6858		6858.02	0.002048	1.19	263.45	219.2	0.19	0.48	0.15
LowerTrib	15294	25-yr		491.53	15.47	6855.75	6858.54		6858.57	0.001754	1.36	423.5	327.46	0.21	0.49	0.14
LowerTrib	15294	50-yr		594.71	32.29	6855.75	6858.81		6858.84	0.001659	1.44	512.66	332.88	0.2	0.49	0.16
LowerTrib	15294	100-yr		707.18	53.82	6855.75	6859.09		6859.12	0.001582	1.52	605.08	338.33	0.19	0.5	0.18
LowerTrib	14892.58	2-yr	0.06	110.83	0.11	6855.52	6856.77		6856.78	0.000601	0.55	204.55	197.97	0.09	0.22	0.04
LowerTrib	14892.58	5-yr	0.55	220.5	0.95	6855.52	6857.25		6857.26	0.000703	0.76	301.68	209.43	0.11	0.26	0.06
LowerTrib	14892.58	10-yr	1.17	304.72	2.1	6855.52	6857.53		6857.54	0.000772	0.88	361.4	215.25	0.12	0.29	0.08
LowerTrib	14892.58	25-yr	3.09	497.72	6.19	6855.52	6858.07		6858.08	0.000876	1.12	480.14	227.71	0.13	0.34	0.12
LowerTrib	14892.58	50-yr	4.45	613.1	9.45	6855.52	6858.32		6858.35	0.000943	1.24	539.5	233.69	0.14	0.36	0.14
LowerTrib	14892.58	100-yr	6.17	741.08	13.75	6855.52	6858.59		6858.62	0.000995	1.36	603.47	240.49	0.15	0.39	0.16
LowerTrib	14651.45	2-yr	26.83	84.13	0.04	6854.86	6856.55		6856.56	0.001542	0.89	172.5	182.39	0.14	0.54	0.09
LowerTrib	14651.45	5-yr	59.01	162.05	0.94	6854.86	6856.97		6856.99	0.001921	1.24	252.42	189.8	0.17	0.66	0.16
LowerTrib	14651.45	10-yr	84.43	221.37	2.2	6854.86	6857.22		6857.25	0.002167	1.45	300.03	191.83	0.18	0.71	0.21
LowerTrib	14651.45	25-yr	144.42	356.44	6.15	6854.86	6857.71		6857.75	0.002505	1.83	394.67	195.81	0.2	0.81	0.31
LowerTrib	14651.45	50-yr	180.75	437.4	8.85	6854.86	6857.94		6857.98	0.002761	2.05	438.47	197.62	0.21	0.82	0.38
LowerTrib	14651.45	100-yr	221.72	527	12.28	6854.86	6858.18		6858.24	0.002942	2.25	486.57	199.59	0.22	0.83	0.45
LowerTrib	14543.94	2-yr		107.02	3.98	6854.55	6855.82	6855.82	6856.02	0.098753	3.63	33.75	98.97	1.08		2.09
LowerTrib	14543.94	5-yr		206.66	15.34	6854.55	6856.04	6856.04	6856.34	0.089531	4.49	56.25	105.31	1.05		2.97
LowerTrib	14543.94	10-yr	0.04	282.56	25.4	6854.55	6856.2	6856.2	6856.54	0.076167	4.83	73.42	109.6	1		3.17
LowerTrib	14543.94	25-yr	0.68	457.13	49.19	6854.55	6856.46	6856.46	6856.94	0.075255	5.84	102.21	115.88	1.05		4.12
LowerTrib	14543.94	50-yr	2.36	557.05	67.59	6854.55	6856.72		6857.17	0.051101	5.62	133.92	121.71	0.9		3.49

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	14543.94	100-yr	4.66	668.15	88.19	6854.55	6856.96		6857.41	0.042057	5.71	162.51	124.03	0.83		3.42
LowerTrib	14439.95	2-yr		15		6854.91	6855.53		6855.57	0.024276	1.62	9.29	27.18	0.49	1.11	0.52
LowerTrib	14439.95	5-yr		39	0	6854.91	6855.8		6855.88	0.026221	2.16	18.07	36.64	0.54	1.14	0.81
LowerTrib	14439.95	10-yr	0.03	63.93	0.04	6854.91	6855.97		6856.08	0.027483	2.67	24.16	38.26	0.59	1.15	1.08
LowerTrib	14439.95	25-yr	1.01	168.07	0.92	6854.91	6856.45		6856.7	0.030554	4.05	43.77	42.97	0.7	1.23	1.93
LowerTrib	14439.95	50-yr	2.82	264.76	2.43	6854.91	6856.72		6857.13	0.036843	5.14	55.99	45.5	0.81	1.32	2.82
LowerTrib	14439.95	100-yr	5.37	360.18	4.45	6854.91	6856.96	6856.78	6857.5	0.041133	6.01	66.81	47.56	0.88	1.41	3.58
LowerTrib	14413.05	2-yr		15		6854.04	6854.37		6854.46	0.082818	2.36	6.36	26.5	0.85	0.37	1.24
LowerTrib	14413.05	5-yr		39		6854.04	6854.58	6854.54	6854.73	0.075616	3.06	12.74	33.48	0.87	0.36	1.79
LowerTrib	14413.05	10-yr		64		6854.04	6854.74	6854.7	6854.93	0.071555	3.44	18.59	39.32	0.88	0.36	2.11
LowerTrib	14413.05	25-yr		170		6854.04	6855.16	6855.13	6855.47	0.073616	4.51	37.71	54.39	0.95	0.35	3.18
LowerTrib	14413.05	50-yr	0.01	269.98	0	6854.04	6855.45	6855.41	6855.82	0.065801	4.86	55.62	67.9	0.95	0.36	3.36
LowerTrib	14413.05	100-yr	0.22	368.12	1.66	6854.04	6855.63	6855.62	6856.09	0.064812	5.48	70.07	86.98	1.07	0.34	3.26
LowerTrib	14408.1*	2-yr		15		6853.64	6854.02		6854.09	0.067657	2.22	6.74	26.35	0.77	0.38	1.08
LowerTrib	14408.1*	5-yr		39		6853.64	6854.22	6854.18	6854.37	0.072404	3.03	12.87	33.26	0.86	0.37	1.75
LowerTrib	14408.1*	10-yr		64		6853.64	6854.37	6854.33	6854.56	0.075766	3.54	18.1	38.4	0.91	0.36	2.23
LowerTrib	14408.1*	25-yr		170		6853.64	6854.83		6855.12	0.064427	4.27	39.79	56.28	0.9	0.37	2.84
LowerTrib	14408.1*	50-yr	0.08	269.67	0.25	6853.64	6855.03	6855.03	6855.46	0.074521	5.26	52.09	72.08	1.09	0.34	3.36
LowerTrib	14408.1*	100-yr	0.58	365.98	3.44	6853.64	6855.24	6855.23	6855.75	0.066919	5.75	68.42	84.82	1.12	0.31	3.37
LowerTrib	14403.2*	2-yr		15		6853.23	6853.62		6853.72	0.086502	2.47	6.08	24.41	0.87	0.35	1.34
LowerTrib	14403.2*	5-yr		39		6853.23	6853.85	6853.81	6854	0.076077	3.11	12.52	32.25	0.88	0.36	1.84
LowerTrib	14403.2*	10-yr		64		6853.23	6854.02	6853.97	6854.21	0.068096	3.45	18.56	37.76	0.87	0.36	2.09
LowerTrib	14403.2*	25-yr	0.01	169.99		6853.23	6854.42	6854.4	6854.75	0.079259	4.67	36.45	53.34	0.99	0.33	3.38
LowerTrib	14403.2*	50-yr	0.54	267.34	2.12	6853.23	6854.72	6854.67	6855.12	0.058922	5.11	55.91	75.66	1.04	0.26	2.71
LowerTrib	14403.2*	100-yr	6.93	350.91	12.16	6853.23	6855.09	6854.93	6855.44	0.035243	4.89	95.87	139.93	1.01	0.19	1.51
LowerTrib	14398.3*	2-yr		15		6852.83	6853.29		6853.37	0.05485	2.13	7.03	24.98	0.71	0.39	0.96
LowerTrib	14398.3*	5-yr		39		6852.83	6853.5		6853.64	0.070202	3.05	12.77	31.85	0.85	0.36	1.75
LowerTrib	14398.3*	10-yr		64		6852.83	6853.64	6853.61	6853.84	0.077964	3.63	17.64	36.8	0.92	0.33	2.33
LowerTrib	14398.3*	25-yr	0.33	168.88	0.79	6852.83	6854.15	6854.03	6854.42	0.047408	4.2	42.3	63.11	0.9	0.19	1.98
LowerTrib	14398.3*	50-yr	9.49	251.3	9.21	6852.83	6854.62		6854.86	0.025072	4.07	86.45	119.8	0.81	0.13	1.13
LowerTrib	14398.3*	100-yr	30.37	312.75	26.88	6852.83	6855.06		6855.25	0.015003	3.8	147.67	154.57	0.63	0.09	0.89
LowerTrib	14393.4*	2-yr		15		6852.43	6852.86	6852.86	6852.98	0.113078	2.81	5.33	21.51	1	0.26	1.75
LowerTrib	14393.4*	5-yr		39		6852.43	6853.13	6853.08	6853.28	0.07493	3.17	12.31	30.53	0.88	0.18	1.88
LowerTrib	14393.4*	10-yr	0	64		6852.43	6853.37		6853.52	0.048356	3.07	20.83	39.26	0.74	0.14	1.6
LowerTrib	14393.4*	25-yr	8.28	156.84	4.88	6852.43	6854.09		6854.23	0.016899	3.18	69.72	97.11	0.64	0.08	0.76
LowerTrib	14393.4*	50-yr	26.51	226.21	17.28	6852.43	6854.59		6854.73	0.011276	3.26	127.09	134.06	0.54	0.06	0.67

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	14393.4*	100-yr	52.46	281.58	35.96	6852.43	6855.04		6855.16	0.008114	3.22	194.44	160.24	0.45	0.05	0.61
LowerTrib	14388.5*	2-yr		15		6852.03	6852.66		6852.7	0.024023	1.64	9.14	25.88	0.49	0.04	0.53
LowerTrib	14388.5*	5-yr	0.16	38.8	0.04	6852.03	6853.05		6853.1	0.01359	1.83	22.21	46.77	0.47	0.04	0.4
LowerTrib	14388.5*	10-yr	2.18	61.21	0.61	6852.03	6853.32		6853.38	0.010294	2.02	37.45	62.78	0.45	0.04	0.38
LowerTrib	14388.5*	25-yr	18.93	142.66	8.4	6852.03	6854.06		6854.15	0.007617	2.59	98.31	102.78	0.43	0.04	0.45
LowerTrib	14388.5*	50-yr	42.53	205.51	21.95	6852.03	6854.57		6854.67	0.006466	2.85	155.22	120.83	0.39	0.03	0.52
LowerTrib	14388.5*	100-yr	69.37	259.03	41.6	6852.03	6855.02		6855.12	0.005464	2.97	210.51	124.05	0.34	0.04	0.58
LowerTrib	14383.59	2-yr	0.4	14.56	0.04	6851.63	6852.65	6852.12	6852.66	0.002429	0.8	20.75	40.38	0.19		0.08
LowerTrib	14383.59	5-yr	2.53	35.87	0.6	6851.63	6853.03	6852.38	6853.05	0.003272	1.26	38.5	51.85	0.25		0.15
LowerTrib	14383.59	10-yr	5.66	56.57	1.77	6851.63	6853.3	6852.54	6853.34	0.003805	1.58	53.67	58.99	0.28		0.22
LowerTrib	14383.59	25-yr	24.38	135.88	9.74	6851.63	6854.04	6853.03	6854.11	0.005056	2.44	103.89	76.51	0.33		0.43
LowerTrib	14383.59	50-yr	45.08	201.75	23.18	6851.63	6854.53	6853.39	6854.64	0.005436	2.93	142.26	78.04	0.34		0.61
LowerTrib	14383.59	100-yr	66.74	265.07	38.19	6851.63	6854.96	6853.66	6855.08	0.005634	3.3	175.55	79.22	0.34		0.77
LowerTrib	14364.16		Bridge													
LowerTrib	14346.1	2-yr	0.05	14.95		6851.63	6852.44	6852.17	6852.46	0.011143	1.26	12.12	31.04	0.35	0.61	0.27
LowerTrib	14346.1	5-yr	0.91	38.09		6851.63	6852.75	6852.41	6852.8	0.012079	1.77	23.48	39.82	0.4	0.6	0.44
LowerTrib	14346.1	10-yr	2.52	61.48		6851.63	6852.98	6852.57	6853.05	0.012631	2.1	33.23	44.51	0.42	0.61	0.59
LowerTrib	14346.1	25-yr	11.46	158.42	0.12	6851.63	6853.68	6853.05	6853.8	0.011317	2.79	68.83	56.92	0.43	0.56	0.85
LowerTrib	14346.1	50-yr	20.47	247.83	1.7	6851.63	6854.18	6853.36	6854.33	0.009929	3.21	99	64.13	0.44	0.49	0.95
LowerTrib	14346.1	100-yr	30.95	334.26	4.79	6851.63	6854.6	6853.6	6854.78	0.00915	3.53	127.23	68.54	0.44	0.43	1.05
LowerTrib	14306.18	2-yr		15		6851.03	6851.82		6851.86	0.021549	1.59	9.46	25.99	0.46	1	0.49
LowerTrib	14306.18	5-yr		38.96	0.04	6851.03	6852.13		6852.19	0.019128	2.08	18.87	32.27	0.48	0.99	0.69
LowerTrib	14306.18	10-yr		63.81	0.19	6851.03	6852.35		6852.44	0.018313	2.49	26.03	33.23	0.49	0.96	0.89
LowerTrib	14306.18	25-yr	0.19	167.73	2.08	6851.03	6853.05		6853.24	0.016185	3.49	51.12	41.52	0.55	0.83	1.22
LowerTrib	14306.18	50-yr	4.46	260.13	5.41	6851.03	6853.61		6853.84	0.013809	3.93	78.79	58.06	0.58	0.74	1.15
LowerTrib	14306.18	100-yr	20.02	341.01	8.96	6851.03	6854.11		6854.35	0.01135	4.13	121.13	99.74	0.63	0.64	0.85
LowerTrib	14253.14	2-yr		15		6850.42	6850.83	6850.64	6850.86	0.016604	1.46	10.24	25.69	0.41		0.41
LowerTrib	14253.14	5-yr		39		6850.42	6851.13	6850.84	6851.2	0.018028	2.16	18.02	26.49	0.46		0.74
LowerTrib	14253.14	10-yr		64		6850.42	6851.37	6851.02	6851.48	0.017816	2.59	24.68	27.16	0.48		0.97
LowerTrib	14253.14	25-yr		170		6850.42	6852.21	6851.55	6852.41	0.015273	3.51	48.46	29.41	0.48		1.47
LowerTrib	14253.14	50-yr		270		6850.42	6852.86	6851.94	6853.1	0.013817	3.98	67.9	31.14	0.47		1.74
LowerTrib	14253.14	100-yr	0.28	369.72		6850.42	6853.43	6852.27	6853.72	0.012247	4.31	86.51	34.22	0.48		1.77
LowerTrib	14215.6		Culvert													
LowerTrib	14171.71	2-yr		15		6843.01	6843.81	6843.81	6844.01	0.017925	3.61	4.16	10.21	1	1.46	0.45

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	14171.71	5-yr		39		6843.01	6844.17	6844.17	6844.51	0.01565	4.64	8.41	12.67	1	1.29	0.63
LowerTrib	14171.71	10-yr		64		6843.01	6844.44	6844.44	6844.89	0.014325	5.35	11.96	13.47	1	1.18	0.77
LowerTrib	14171.71	25-yr		170		6843.01	6845.27	6845.27	6846.04	0.012554	7.04	24.14	15.88	1.01	1.03	1.12
LowerTrib	14171.71	50-yr		270		6843.01	6845.85	6845.85	6846.84	0.011966	7.98	33.85	17.55	1.01	0.98	1.33
LowerTrib	14171.71	100-yr		370		6843.01	6846.35	6846.35	6847.5	0.011607	8.61	42.98	19.29	1.02	0.95	1.48
LowerTrib	14092.03	2-yr		15		6839.98	6841.02	6841.02	6841.33	0.017983	4.44	3.38	5.72	1.02	7.24	0.61
LowerTrib	14092.03	5-yr		40		6839.98	6841.6	6841.6	6842.04	0.015797	5.35	7.47	8.69	1.02	6.27	0.79
LowerTrib	14092.03	10-yr		65		6839.98	6841.97	6841.97	6842.5	0.01466	5.84	11.13	10.75	1.01	5.84	0.88
LowerTrib	14092.03	25-yr		170		6839.98	6842.91	6842.91	6843.74	0.012835	7.3	23.27	14.33	1.01	5.11	1.19
LowerTrib	14092.03	50-yr		270		6839.98	6843.55	6843.55	6844.6	0.012101	8.22	32.84	15.94	1.01	4.81	1.4
LowerTrib	14092.03	100-yr		380		6839.98	6844.13	6844.13	6845.37	0.011613	8.95	42.48	17.4	1.01	4.63	1.57
LowerTrib	13692.03	2-yr		15		6832.6	6833.5	6833.5	6833.75	0.018124	3.98	3.77	7.93	1.02	3.19	0.52
LowerTrib	13692.03	5-yr		40		6832.6	6833.96	6833.96	6834.33	0.015465	4.9	8.17	11.14	1.01	3.54	0.68
LowerTrib	13692.03	10-yr		65		6832.6	6834.25	6834.25	6834.74	0.014469	5.61	11.58	12.11	1.01	3.77	0.83
LowerTrib	13692.03	25-yr		170		6832.6	6835.14	6835.14	6835.94	0.012654	7.19	23.63	15.04	1.01	4.22	1.16
LowerTrib	13692.03	50-yr		270		6832.6	6835.76	6835.76	6836.76	0.01189	8.03	33.61	17.08	1.01	3.61	1.35
LowerTrib	13692.03	100-yr		380		6832.6	6836.32	6836.32	6837.5	0.011416	8.7	43.66	18.92	1.01	3.48	1.5
LowerTrib	13292.03	2-yr		15		6827.81	6829.12		6829.21	0.004364	2.42	6.2	9.34	0.52	1.22	0.17
LowerTrib	13292.03	5-yr		40		6827.81	6829.62	6829.3	6829.8	0.005578	3.39	11.79	12.86	0.62	1.39	0.31
LowerTrib	13292.03	10-yr		65		6827.81	6829.93		6830.19	0.006407	4.04	16.09	14.99	0.69	1.47	0.41
LowerTrib	13292.03	25-yr		169.99	0.01	6827.81	6830.7	6830.5	6831.21	0.0086	5.74	29.64	22.1	0.87	1.64	0.69
LowerTrib	13292.03	50-yr	10.65	249.9	9.45	6827.81	6831.3	6831.3	6831.78	0.006544	5.76	74.52	145.12	1.36	1.36	0.21
LowerTrib	13292.03	100-yr	44.69	313.88	21.43	6827.81	6831.6	6831.6	6832.1	0.006146	6.19	120.84	160.92	1.15	1.28	0.29
LowerTrib	13137.37	2-yr		15		6827.12	6827.81	6827.81	6827.98	0.018226	3.29	4.56	13.09	0.98	4.33	0.39
LowerTrib	13137.37	5-yr		40		6827.12	6828.13	6828.13	6828.41	0.016539	4.25	9.41	17.11	1.01	3.9	0.56
LowerTrib	13137.37	10-yr		65		6827.12	6828.36	6828.36	6828.71	0.01522	4.77	13.61	19.52	1.01	3.73	0.66
LowerTrib	13137.37	25-yr		170		6827.12	6829	6829	6829.57	0.013266	6.09	27.93	24.99	1.01	3.42	0.91
LowerTrib	13137.37	50-yr	0.29	269.69	0.02	6827.12	6829.42	6829.42	6830.17	0.011876	6.94	39.31	28.7	1.04	3.15	1
LowerTrib	13137.37	100-yr	1.34	378.34	0.31	6827.12	6829.81	6829.81	6830.73	0.010778	7.72	51.03	33.42	1.1	2.97	1.01
LowerTrib	12892.03	2-yr	0.36	13.48	1.15	6823.22	6823.59	6823.59	6823.66	0.016869	2.27	9.52	82.2	1.12	1.9	0.12
LowerTrib	12892.03	5-yr	0.84	30.73	8.43	6823.22	6823.73	6823.73	6823.84	0.014934	3.04	22.16	89.67	0.95	5.26	0.23
LowerTrib	12892.03	10-yr	1.36	46.61	17.03	6823.22	6823.84	6823.81	6823.98	0.014662	3.57	31.5	90.9	0.92	5.06	0.32
LowerTrib	12892.03	25-yr	4.05	109.69	56.26	6823.22	6824.16	6824.11	6824.41	0.013856	4.94	61.32	94.7	0.89	4.57	0.56
LowerTrib	12892.03	50-yr	7.3	167.36	95.34	6823.22	6824.41	6824.32	6824.74	0.012834	5.72	85.22	97.64	0.88	4.31	0.7
LowerTrib	12892.03	100-yr	11.53	229.81	138.65	6823.22	6824.64	6824.54	6825.05	0.01229	6.41	108.2	100.57	0.88	4.13	0.82
LowerTrib	12554.37	2-yr		15		6817.03	6818.21		6818.27	0.002768	1.85	8.12	13.32	0.42	0.03	0.1

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	12554.37	5-yr		40		6817.03	6818.26	6818.26	6818.58	0.016146	4.58	8.74	13.81	1.01	0.17	0.63
LowerTrib	12554.37	10-yr		65		6817.03	6818.53	6818.53	6818.93	0.015141	5.06	12.85	16.62	1.01	0.21	0.72
LowerTrib	12554.37	25-yr		170		6817.03	6819.26	6819.26	6819.84	0.013039	6.13	27.71	23.98	1.01	0.31	0.92
LowerTrib	12554.37	50-yr		270		6817.03	6819.74	6819.74	6820.43	0.012481	6.68	40.42	29.8	1.01	0.36	1.03
LowerTrib	12554.37	100-yr		380		6817.03	6820.16	6820.16	6820.92	0.011947	6.99	54.36	36.27	1.01	0.38	1.09
LowerTrib	12530.1*	2-yr		15		6815.3	6818.24		6818.24	0.000015	0.24	61.71	43.74	0.04	0	0
LowerTrib	12530.1*	5-yr		40		6815.3	6818.4		6818.41	0.000083	0.58	69.13	47.01	0.08	0	0.01
LowerTrib	12530.1*	10-yr		65		6815.3	6818.48		6818.49	0.000192	0.89	72.93	48.65	0.13	0.01	0.02
LowerTrib	12530.1*	25-yr	0	169.98	0.02	6815.3	6818.7		6818.77	0.000848	2.02	84.38	52.85	0.28	0.03	0.08
LowerTrib	12530.1*	50-yr	0	269.84	0.15	6815.3	6818.84		6818.98	0.001643	2.96	91.8	54.91	0.4	0.06	0.17
LowerTrib	12530.1*	100-yr	0.01	379.55	0.45	6815.3	6818.96		6819.19	0.002658	3.92	98.09	56.6	0.52	0.11	0.28
LowerTrib	12505.9*	2-yr	0	14.78	0.22	6813.57	6818.24		6818.24	0.000001	0.09	187.1	66.3	0.01	0	0
LowerTrib	12505.9*	5-yr	0.01	39.34	0.65	6813.57	6818.4		6818.4	0.000004	0.22	198.13	67.37	0.02	0	0
LowerTrib	12505.9*	10-yr	0.01	63.88	1.12	6813.57	6818.48		6818.49	0.000009	0.34	203.64	67.89	0.03	0	0
LowerTrib	12505.9*	25-yr	0.03	166.58	3.39	6813.57	6818.73		6818.74	0.000049	0.84	220.37	69.46	0.08	0	0.01
LowerTrib	12505.9*	50-yr	0.05	264.06	5.89	6813.57	6818.89		6818.92	0.000108	1.28	231.82	70.53	0.12	0.01	0.02
LowerTrib	12505.9*	100-yr	0.08	371.01	8.92	6813.57	6819.04		6819.09	0.000188	1.73	242.37	71.61	0.16	0.02	0.04
LowerTrib	12481.7*	2-yr	0	14.54	0.46	6811.84	6818.24		6818.24	0	0.05	338.16	75.15	0	0	0
LowerTrib	12481.7*	5-yr	0.01	38.71	1.29	6811.84	6818.4		6818.4	0.000001	0.13	350.59	75.96	0.01	0	0
LowerTrib	12481.7*	10-yr	0.01	62.85	2.14	6811.84	6818.49		6818.49	0.000002	0.21	356.91	76.37	0.02	0	0
LowerTrib	12481.7*	25-yr	0.04	164.01	5.95	6811.84	6818.73		6818.73	0.00001	0.51	375.82	77.58	0.04	0	0
LowerTrib	12481.7*	50-yr	0.06	260.04	9.9	6811.84	6818.9		6818.91	0.000023	0.79	392.59	139.39	0.08	0	0
LowerTrib	12481.7*	100-yr	0.09	372.32	7.58	6811.84	6819.05		6819.07	0.000044	1.11	418.17	179.54	0.13	0.01	0.01
LowerTrib	12457.47	2-yr		14.12	0.88	6810.11	6818.24	6810.5	6818.24	0	0.05	369.02	81.34	0		0
LowerTrib	12457.47	5-yr	0.01	38.29	1.7	6810.11	6818.4	6810.77	6818.4	0	0.09	525.49	180.97	0.01		0
LowerTrib	12457.47	10-yr	0.02	63.66	1.33	6810.11	6818.49	6810.95	6818.49	0.000001	0.15	540.73	188.42	0.02		0
LowerTrib	12457.47	25-yr	0.1	165.04	4.85	6810.11	6818.73	6811.5	6818.73	0.000004	0.37	588.62	199.3	0.04		0
LowerTrib	12457.47	50-yr	0.27	260.45	9.29	6810.11	6818.9	6811.93	6818.91	0.000008	0.57	622.71	205.33	0.06		0
LowerTrib	12457.47	100-yr	0.47	364.35	15.19	6810.11	6819.06	6812.33	6819.06	0.000015	0.78	656.04	222.64	0.08		0
LowerTrib	12425.19		Culvert													
LowerTrib	12396.04	2-yr		15		6809.69	6810.48	6810.28	6810.53	0.003825	1.73	8.67	25.82	0.47	1.48	0.1
LowerTrib	12396.04	5-yr		40		6809.69	6810.79	6810.53	6810.9	0.004297	2.65	15.09	35.07	0.54	1.59	0.2
LowerTrib	12396.04	10-yr		65		6809.69	6811.03	6810.74	6811.2	0.004451	3.25	19.98	40.97	0.58	1.63	0.27
LowerTrib	12396.04	25-yr		170		6809.69	6811.67	6811.35	6812.08	0.005683	5.14	33.06	54.94	0.71	2	0.57
LowerTrib	12396.04	50-yr		270		6809.69	6812.16	6811.83	6812.77	0.006009	6.29	42.91	55.08	0.76	2.28	0.79
LowerTrib	12396.04	100-yr		380		6809.69	6812.48	6812.29	6813.4	0.007386	7.67	49.51	55.17	0.87	2.59	1.12

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	12092.03	2-yr		16		6808.38	6808.99		6809.03	0.006327	1.7	9.42	33.29	0.56	4.06	0.11
LowerTrib	12092.03	5-yr		43		6808.38	6809.23		6809.32	0.006338	2.39	18.01	38.17	0.61	3.87	0.19
LowerTrib	12092.03	10-yr		76		6808.38	6809.45	6809.26	6809.57	0.006234	2.8	27.15	44.77	0.63	3.75	0.24
LowerTrib	12092.03	25-yr		180		6808.38	6809.87	6809.64	6810.09	0.006882	3.77	47.8	54.36	0.71	3.52	0.38
LowerTrib	12092.03	50-yr		300		6808.38	6810.16	6809.98	6810.49	0.008183	4.64	64.59	61.06	0.8	3.4	0.54
LowerTrib	12092.03	100-yr	0.01	409.87	0.12	6808.38	6810.4	6810.21	6810.81	0.00799	5.16	79.76	66.5	0.83	3.39	0.6
LowerTrib	11692.03	2-yr		16		6803.99	6804.78	6804.78	6804.98	0.018667	3.59	4.45	11.37	1.01	2.11	0.45
LowerTrib	11692.03	5-yr		43		6803.99	6805.16	6805.15	6805.45	0.016339	4.37	9.84	16.97	1.01	2.19	0.58
LowerTrib	11692.03	10-yr		76		6803.99	6805.45	6805.45	6805.83	0.015396	4.92	15.43	21.27	1.02	2.07	0.69
LowerTrib	11692.03	25-yr	3.26	176.74		6803.99	6806.08	6806.08	6806.58	0.011403	5.74	35.23	49.97	1.19	1.68	0.5
LowerTrib	11692.03	50-yr	28.24	271.76		6803.99	6806.59	6806.59	6807.09	0.008754	5.97	74.41	98.92	1.16	1.35	0.41
LowerTrib	11692.03	100-yr	60.94	349.06		6803.99	6806.85	6806.85	6807.41	0.008924	6.48	102.15	111.44	1.1	1.12	0.51
LowerTrib	11551.86	2-yr		16		6801.38	6802.46	6802.4	6802.66	0.012437	3.58	4.47	8.29	0.86	0.51	0.4
LowerTrib	11551.86	5-yr		43		6801.38	6802.89	6802.89	6803.26	0.014862	4.88	8.8	11.67	0.99	0.56	0.67
LowerTrib	11551.86	10-yr		76		6801.38	6803.26	6803.26	6803.75	0.013958	5.65	13.45	13.61	1	0.5	0.83
LowerTrib	11551.86	25-yr		180		6801.38	6804.08	6804.08	6804.78	0.012376	6.71	26.84	19.16	1	0.45	1.04
LowerTrib	11551.86	50-yr	1.82	298.18		6801.38	6804.8	6804.8	6805.56	0.010177	7.03	45.54	42.2	1.19	0.38	0.67
LowerTrib	11551.86	100-yr	28.94	381.06		6801.38	6805.4	6805.4	6806.02	0.007121	6.52	90.2	100.25	1.17	0.27	0.4
LowerTrib	11516.82	2-yr		16		6801.22	6801.97	6801.97	6802.15	0.01696	3.34	4.79	12.78	0.96	1.16	0.39
LowerTrib	11516.82	5-yr		43		6801.22	6802.3	6802.3	6802.61	0.015924	4.42	9.72	16.13	1		0.59
LowerTrib	11516.82	10-yr		76		6801.22	6802.63	6802.61	6803.01	0.012842	5	15.19	17.75	0.95	1.2	0.67
LowerTrib	11516.82	25-yr		180		6801.22	6803.27	6803.27	6803.93	0.012413	6.51	27.63	20.98	1	1.08	0.99
LowerTrib	11516.82	50-yr	0	300		6801.22	6803.85	6803.85	6804.69	0.011354	7.37	40.77	26.39	1.04	0.95	1.06
LowerTrib	11516.82	100-yr	14.17	395.83		6801.22	6804.49	6804.49	6805.22	0.007403	6.97	75.5	97.33	1.37	0.79	0.36
LowerTrib	11425.16	2-yr		16		6799.44	6800.58	6800.46	6800.75	0.00981	3.28	4.87	8.58	0.77	3.7	0.34
LowerTrib	11425.16	5-yr		43		6799.44	6801.03	6800.95	6801.34	0.012017	4.52	9.51	12.07	0.9	3.83	0.57
LowerTrib	11425.16	10-yr		76		6799.44	6801.37	6801.33	6801.82	0.013181	5.39	14.09	14.73	0.97	3.9	0.76
LowerTrib	11425.16	25-yr	4.46	174.04	1.5	6799.44	6802.23	6802.23	6802.61	0.009616	5	45.37	144.15	1.54	3.11	0.19
LowerTrib	11425.16	50-yr	15.59	235.68	48.73	6799.44	6802.6	6802.6	6802.91	0.006787	5	129.45	263.63	1.12	1.97	0.21
LowerTrib	11425.16	100-yr	24.29	291.26	94.45	6799.44	6802.75	6802.75	6803.1	0.007379	5.56	170.26	270.25	1.05	1.76	0.29
LowerTrib	11146.3	2-yr		16		6796.21	6796.87	6796.87	6797.05	0.018959	3.38	4.73	13.45	1	2.69	0.41
LowerTrib	11146.3	5-yr		43		6796.21	6797.2	6797.2	6797.51	0.015835	4.46	9.63	15.68	1	2.84	0.6
LowerTrib	11146.3	10-yr		76		6796.21	6797.5	6797.5	6797.92	0.014825	5.24	14.49	17.55	1.02	2.99	0.75
LowerTrib	11146.3	25-yr		180		6796.21	6798.17	6798.17	6798.82	0.012836	6.47	27.81	21.88	1.01	3.2	0.99
LowerTrib	11146.3	50-yr		289.01	10.99	6796.21	6798.95	6798.95	6799.53	0.00716	6.24	64.93	105.23	1.37	2.4	0.27
LowerTrib	11146.3	100-yr		351.31	58.69	6796.21	6799.4	6799.4	6799.9	0.005382	6.1	126.86	166.74	1.14	2.04	0.25

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	10892.03	2-yr		16		6784.41	6785.57	6785.33	6785.73	0.006715	3.24	4.93	6.25	0.64	4.22	0.3
LowerTrib	10892.03	5-yr		43		6784.41	6786.19	6785.94	6786.51	0.008283	4.59	9.36	8.06	0.75	4.47	0.53
LowerTrib	10892.03	10-yr		76		6784.41	6786.66	6786.45	6787.15	0.009528	5.62	13.52	9.45	0.83	4.66	0.75
LowerTrib	10892.03	25-yr		180		6784.41	6787.58	6787.53	6788.49	0.012131	7.68	23.45	12.15	0.97	5.02	1.26
LowerTrib	10892.03	50-yr		300		6784.41	6788.39	6788.39	6789.58	0.012266	8.77	34.2	14.51	1.01	4.87	1.55
LowerTrib	10892.03	100-yr		410		6784.41	6789	6789	6790.37	0.011898	9.38	43.71	16.32	1.01	4.7	1.7
LowerTrib	10492.03	2-yr		16		6780.51	6781.29	6781.29	6781.5	0.018869	3.66	4.37	10.92	1.02	2.41	0.47
LowerTrib	10492.03	5-yr		43		6780.51	6781.68	6781.68	6782.03	0.015899	4.76	9.03	13.25	1.02	2.06	0.66
LowerTrib	10492.03	10-yr		76		6780.51	6782.02	6782.02	6782.48	0.014505	5.48	13.87	15.3	1.01	1.86	0.8
LowerTrib	10492.03	25-yr		180		6780.51	6782.73	6782.73	6783.48	0.01272	6.93	25.97	17.84	1.01	1.64	1.1
LowerTrib	10492.03	50-yr		300		6780.51	6783.36	6783.36	6784.35	0.011772	8	37.49	19.2	1.01	1.59	1.34
LowerTrib	10492.03	100-yr		410		6780.51	6783.84	6783.84	6785.02	0.011314	8.73	46.98	20.21	1.01	1.59	1.51
LowerTrib	10092.03	2-yr		16		6777.98	6778.89		6778.94	0.002848	1.77	9.06	16.31	0.42	2.3	0.1
LowerTrib	10092.03	5-yr		43		6777.98	6779.42		6779.5	0.00238	2.35	18.34	18.5	0.42	2.01	0.14
LowerTrib	10092.03	10-yr		76		6777.98	6779.91		6780.02	0.00209	2.74	27.69	19.68	0.41	1.81	0.17
LowerTrib	10092.03	25-yr		180		6777.98	6781.09		6781.27	0.001726	3.43	52.55	22.41	0.39	1.57	0.23
LowerTrib	10092.03	50-yr		300		6777.98	6782.12		6782.36	0.001589	3.9	76.86	24.72	0.39	1.48	0.28
LowerTrib	10092.03	100-yr		410		6777.98	6782.9		6783.17	0.00154	4.24	96.72	26.46	0.39	1.44	0.31
LowerTrib	9692.031	2-yr		16		6775.09	6776.32	6776.32	6776.64	0.016557	4.55	3.51	5.15	0.97	2.99	0.62
LowerTrib	9692.031	5-yr		43		6775.09	6776.96	6776.96	6777.5	0.015528	5.91	7.28	6.61	0.99	1.72	0.91
LowerTrib	9692.031	10-yr		76		6775.09	6777.52	6777.52	6778.21	0.014398	6.69	11.36	7.92	0.98	1.78	1.07
LowerTrib	9692.031	25-yr		180		6775.09	6778.7	6778.7	6779.7	0.013113	8.06	22.34	10.73	0.98	1.93	1.39
LowerTrib	9692.031	50-yr		300		6775.09	6779.63	6779.63	6780.88	0.01243	8.97	33.46	13.02	0.99	2.53	1.61
LowerTrib	9692.031	100-yr	0.2	409.8		6775.09	6780.31	6780.31	6781.73	0.011768	9.59	43.18	18.33	1.1	2.41	1.45
LowerTrib	9292.031	2-yr		17		6772.35	6772.94	6772.79	6772.97	0.004179	1.4	12.11	41.57	0.46	3.29	0.08
LowerTrib	9292.031	5-yr		48		6772.35	6773.35		6773.39	0.001874	1.66	29	42.17	0.35	3.44	0.08
LowerTrib	9292.031	10-yr		84		6772.35	6773.61		6773.68	0.00195	2.08	40.33	42.56	0.38	3.44	0.11
LowerTrib	9292.031	25-yr		190		6772.35	6774.19		6774.33	0.002093	2.91	65.29	43.41	0.42	3.46	0.19
LowerTrib	9292.031	50-yr		320		6772.35	6774.5		6774.76	0.00326	4.07	78.69	43.87	0.54	3.22	0.35
LowerTrib	9292.031	100-yr		430		6772.35	6774.93		6775.23	0.00298	4.41	97.42	44.5	0.53	3.35	0.39
LowerTrib	8887.93	2-yr		17		6768.95	6769.64	6769.46	6769.69	0.00405	1.64	10.38	27.68	0.47	3.04	0.09
LowerTrib	8887.93	5-yr		48		6768.95	6769.73	6769.73	6769.95	0.017875	3.77	12.75	29.67	1.01	1.07	0.48
LowerTrib	8887.93	10-yr		84		6768.95	6769.93	6769.93	6770.23	0.015759	4.44	18.93	31.29	1.01	0.84	0.59
LowerTrib	8887.93	25-yr	0.96	189.04		6768.95	6770.38	6770.38	6770.86	0.013187	5.57	35.2	40.62	1.05	2.35	0.71
LowerTrib	8887.93	50-yr	10.16	309.84		6768.95	6771.2	6770.81	6771.54	0.005072	4.77	75.54	57.78	0.72	2.98	0.41
LowerTrib	8887.93	100-yr	16.94	413.06		6768.95	6771.41	6771.1	6771.88	0.006242	5.62	87.91	61.97	0.82	3	0.55

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	8487.736	2-yr		17		6766.17	6766.53	6766.53	6766.65	0.018983	2.81	6.05	22.81	0.96	0.06	0.31
LowerTrib	8487.736	5-yr		48		6766.17	6767.47	6766.79	6767.51	0.000961	1.52	31.64	31.92	0.27	0.02	0.06
LowerTrib	8487.736	10-yr	0.18	83.7	0.12	6766.17	6768.1	6767.02	6768.13	0.000696	1.44	61.06	131.8	0.29	0.02	0.03
LowerTrib	8487.736	25-yr	0.79	188.81	0.4	6766.17	6768.14	6767.52	6768.29	0.003105	3.12	65.05	147.44	0.65	0.09	0.14
LowerTrib	8487.736	50-yr	0.19	319.53	0.27	6766.17	6768.04	6768.04	6768.56	0.011808	5.75	56.98	98.77	1.17	0.3	0.55
LowerTrib	8487.736	100-yr	8.6	418.7	2.7	6766.17	6768.34	6768.34	6768.88	0.009134	5.93	87.86	268.56	1.28	0.34	0.37
LowerTrib	8332.121	2-yr		17		6760.75	6765.48	6761.09	6765.48	0.000003	0.17	97.39	38.88	0.02		0
LowerTrib	8332.121	5-yr		48		6760.75	6767.49	6761.41	6767.49	0.000005	0.31	155.69	284.25	0.02		0
LowerTrib	8332.121	10-yr	4.14	79.86		6760.75	6768.11	6761.71	6768.11	0.000008	0.4	280.15	443.95	0.05		0
LowerTrib	8332.121	25-yr	10.2	179.8		6760.75	6768.19	6762.37	6768.2	0.00004	0.89	291	473.13	0.1		0.01
LowerTrib	8332.121	50-yr	16.78	303.22		6760.75	6768.17	6763.03	6768.2	0.000116	1.5	287.97	459.29	0.17		0.02
LowerTrib	8332.121	100-yr	21.95	408.05		6760.75	6768.14	6763.49	6768.2	0.000214	2.03	284.53	451.43	0.23		0.03
LowerTrib	8304.048		Culvert													
LowerTrib	8268.483	2-yr		17		6760.5	6763.57	6760.78	6763.57	0.00001	0.28	61.77	20.51	0.03	0	0
LowerTrib	8268.483	5-yr		48		6760.5	6764.03	6761.07	6764.04	0.00005	0.67	71.36	20.63	0.06	0.01	0.01
LowerTrib	8268.483	10-yr		84		6760.5	6764.36	6761.33	6764.38	0.000117	1.07	78.2	20.71	0.1	0.02	0.02
LowerTrib	8268.483	25-yr		190		6760.5	6764.93	6761.91	6765	0.000454	2.08	91.26	33.49	0.19	0.06	0.08
LowerTrib	8268.483	50-yr		320		6760.5	6765.29	6762.52	6765.45	0.000937	3.19	100.41	50.82	0.28	0.1	0.18
LowerTrib	8268.483	100-yr		430		6760.5	6765.49	6762.95	6765.75	0.001432	4.07	105.58	62.72	0.35	0.12	0.29
LowerTrib	8223.27*	2-yr		17		6761.12	6763.56		6763.57	0.000036	0.45	37.38	15.78	0.05	0	0
LowerTrib	8223.27*	5-yr		48		6761.12	6764.02		6764.03	0.000172	1.08	44.55	15.95	0.11	0.02	0.02
LowerTrib	8223.27*	10-yr		84		6761.12	6764.32		6764.37	0.000473	1.68	49.87	20.33	0.19	0.06	0.06
LowerTrib	8223.27*	25-yr	0	190		6761.12	6764.82		6764.94	0.0025	2.82	67.39	50.99	0.43	0.2	0.19
LowerTrib	8223.27*	50-yr	1.49	318.1	0.41	6761.12	6765.13		6765.35	0.003541	3.85	89.3	100.21	0.72	0.26	0.19
LowerTrib	8223.27*	100-yr	8.25	420.12	1.62	6761.12	6765.31	6764	6765.63	0.004296	4.56	112.99	144.92	0.9	0.29	0.2
LowerTrib	8178.07*	2-yr		17		6761.75	6763.55		6763.56	0.000218	0.9	18.88	11.1	0.12	0.04	0.02
LowerTrib	8178.07*	5-yr		48		6761.75	6763.95		6764.01	0.00149	2	23.95	19.21	0.32	0.14	0.1
LowerTrib	8178.07*	10-yr		84		6761.75	6764.2		6764.31	0.004359	2.71	31.03	38.09	0.53	0.3	0.2
LowerTrib	8178.07*	25-yr	7.25	182.72	0.03	6761.75	6764.51	6764.38	6764.75	0.007973	4	59.24	131.29	1.03	0.41	0.22
LowerTrib	8178.07*	50-yr	30.65	288.48	0.87	6761.75	6764.74	6764.71	6765.1	0.009271	5.02	93.13	159.47	1.1	0.5	0.33
LowerTrib	8178.07*	100-yr	56.27	371.04	2.68	6761.75	6764.9	6764.9	6765.33	0.009967	5.67	120.06	181.65	1.15	0.53	0.4
LowerTrib	8132.86*	2-yr	0	17		6762.38	6763.39	6763.07	6763.52	0.005535	2.94	5.78	8.07	0.61	0.41	0.21
LowerTrib	8132.86*	5-yr	10.6	37.4		6762.38	6763.8	6763.74	6763.87	0.009698	2.42	32.6	132.81	0.77	0.53	0.15
LowerTrib	8132.86*	10-yr	24.1	59.9		6762.38	6763.92		6764.01	0.010377	2.86	49.56	145.96	0.74	0.55	0.22
LowerTrib	8132.86*	25-yr	64.78	124.97	0.25	6762.38	6764.19		6764.33	0.009104	3.62	93.2	181.96	0.74	0.57	0.29

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	8132.86*	50-yr	115.25	203.3	1.45	6762.38	6764.36		6764.59	0.011462	4.72	127	212.06	0.88	0.61	0.43
LowerTrib	8132.86*	100-yr	162.09	264.44	3.47	6762.38	6764.52	6764.41	6764.79	0.01119	5.2	161.88	242.41	0.9	0.63	0.46
LowerTrib	8087.66	2-yr	3.15	27.85		6762.55	6763.06	6763	6763.11	0.011327	1.97	19.38	93.05	0.72	7.32	0.15
LowerTrib	8087.66	5-yr	11.91	79.09		6762.55	6763.26	6763.2	6763.34	0.013012	2.48	43.92	147.23	0.76	7.29	0.24
LowerTrib	8087.66	10-yr	17.79	122.21		6762.55	6763.35	6763.28	6763.46	0.01338	2.91	58.27	167.97	0.82	7.25	0.29
LowerTrib	8087.66	25-yr	38.31	261.69		6762.55	6763.54	6763.51	6763.76	0.015714	3.98	93.83	197.32	0.96	7.17	0.47
LowerTrib	8087.66	50-yr	57.32	392.6	0.08	6762.55	6763.69	6763.67	6763.98	0.015034	4.6	125.49	220.17	1.01	7.14	0.53
LowerTrib	8087.66	100-yr	76.41	513.15	0.43	6762.55	6763.79	6763.79	6764.17	0.016007	5.22	148.42	235.71	1.09	7.04	0.63
LowerTrib	7692.03	2-yr	11.91	19.09		6755.38	6755.71	6755.71	6755.8	0.035405	2.84	17.5	100.58	0.99	6.84	0.38
LowerTrib	7692.03	5-yr	33.66	57.34		6755.38	6755.9	6755.9	6756.05	0.028062	3.77	39.48	131.19	1	7.82	0.53
LowerTrib	7692.03	10-yr	50.91	89.09		6755.38	6756.01	6756.01	6756.21	0.026581	4.35	53.89	147.03	1.04	7.1	0.61
LowerTrib	7692.03	25-yr	111.39	188.61		6755.38	6756.28	6756.28	6756.58	0.021105	5.31	100.77	189.3	1.05	5.77	0.7
LowerTrib	7692.03	50-yr	172.31	277.69		6755.38	6756.45	6756.45	6756.84	0.02199	6.16	134.29	214.47	1.11	5.52	0.86
LowerTrib	7692.03	100-yr	224.31	365.69		6755.38	6756.63	6756.63	6757.06	0.01986	6.55	177.44	269.72	1.15	5.29	0.82
LowerTrib	7292.03	2-yr		31		6746.92	6747.67		6747.78	0.010034	2.72	11.39	28.01	0.75	5.79	0.25
LowerTrib	7292.03	5-yr		91	0	6746.92	6748	6747.99	6748.24	0.014361	3.99	22.86	43.18	0.97	5.99	0.47
LowerTrib	7292.03	10-yr	0.14	137.83	2.04	6746.92	6748.18	6748.18	6748.49	0.012657	4.48	35.19	83.48	1.21	5.53	0.33
LowerTrib	7292.03	25-yr	7.97	269.36	22.67	6746.92	6748.6	6748.6	6749.03	0.010448	5.53	78.85	123.99	1.16	4.63	0.41
LowerTrib	7292.03	50-yr	25.23	377.93	46.84	6746.92	6748.91	6748.91	6749.4	0.009434	6.14	121.1	155.36	1.13	4.43	0.46
LowerTrib	7292.03	100-yr	45.29	473.69	71.02	6746.92	6749.12	6749.12	6749.69	0.009392	6.71	156.13	177.52	1.14	4.39	0.52
LowerTrib	6892.03	2-yr	0.69	30.07	0.23	6741.63	6741.9	6741.9	6742	0.022649	2.59	13.8	93.76	1.17	8.04	0.21
LowerTrib	6892.03	5-yr	9.55	79.24	2.21	6741.63	6742.1	6742.1	6742.26	0.015481	3.4	38.39	134.32	1.05	5.92	0.28
LowerTrib	6892.03	10-yr	19	116.69	4.31	6741.63	6742.21	6742.21	6742.42	0.014984	3.93	54.39	151.89	1.06	5.3	0.33
LowerTrib	6892.03	25-yr	53.89	224.23	21.88	6741.63	6742.51	6742.51	6742.79	0.012648	4.85	108.62	207.12	1.03	4.55	0.41
LowerTrib	6892.03	50-yr	86.36	319.05	44.59	6741.63	6742.69	6742.69	6743.05	0.012931	5.63	149.48	237.5	1.07	4.42	0.51
LowerTrib	6892.03	100-yr	112.29	402.59	75.13	6741.63	6742.85	6742.85	6743.26	0.012682	6.14	188.21	258.26	1.06	4.22	0.58
LowerTrib	6492.03	2-yr		31		6731	6731.99	6731.99	6732.25	0.017886	4.07	7.61	15.41	1.02	1.02	0.54
LowerTrib	6492.03	5-yr	0.62	90.38		6731	6732.54	6732.54	6732.91	0.014059	4.9	19.65	34.11	1.13	0.19	0.5
LowerTrib	6492.03	10-yr	4.75	135.02	0.23	6731	6732.81	6732.81	6733.25	0.011702	5.42	30.76	46.06	1.15	0.23	0.48
LowerTrib	6492.03	25-yr	27.52	267.12	5.37	6731	6733.4	6733.4	6734.05	0.010148	6.82	62.58	61.46	1.13	0.35	0.64
LowerTrib	6492.03	50-yr	54.23	380.86	14.91	6731	6733.84	6733.84	6734.62	0.009374	7.67	92.37	76.63	1.14	0.44	0.7
LowerTrib	6492.03	100-yr	82.37	478.61	29.02	6731	6734.19	6734.19	6735.06	0.008727	8.23	122.11	90.93	1.13	0.5	0.73
LowerTrib	6271.179	2-yr		31		6726.75	6728.88	6727.82	6728.98	0.001874	2.54	12.19	22.86	0.33		0.15
LowerTrib	6271.179	5-yr	79.35	11.65		6726.75	6732.01	6728.84	6732.01	0.000006	0.25	1149.5	623.98	0.01		0
LowerTrib	6271.179	10-yr	122.94	17.06		6726.75	6732.17	6729.81	6732.17	0.000012	0.35	1245.71	635.4	0.02		0
LowerTrib	6271.179	25-yr	266.11	33.89		6726.75	6732.42	6730.85	6732.42	0.000037	0.66	1390.54	641.45	0.03		0.01

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	6271.179	50-yr	401.34	48.66		6726.75	6732.58	6731.59	6732.58	0.000068	0.92	1487.31	644.69	0.04		0.01
LowerTrib	6271.179	100-yr	527.73	62.27		6726.75	6732.68	6732	6732.68	0.000104	1.15	1545.81	647.03	0.05		0.02
LowerTrib	6243.929		Culvert													
LowerTrib	6200.267	2-yr		31		6726.75	6728.09	6727.57	6728.15	0.001972	1.91	16.24	22.28	0.37	0.41	0.1
LowerTrib	6200.267	5-yr		91		6726.75	6728.63	6728.14	6728.79	0.003687	3.18	28.66	39.12	0.53	0.66	0.25
LowerTrib	6200.267	10-yr		140		6726.75	6728.88	6728.48	6729.13	0.004611	3.95	35.47	49.59	0.61	0.77	0.37
LowerTrib	6200.267	25-yr		300		6726.75	6729.34	6729.16	6729.93	0.00821	6.18	48.52	73.58	0.85	1.21	0.83
LowerTrib	6200.267	50-yr		450	0	6726.75	6729.63	6729.63	6730.59	0.011116	7.85	57.34	89.28	1.02	1.56	1.25
LowerTrib	6200.267	100-yr	85.83	503.68	0.49	6726.75	6729.95	6729.95	6730.68	0.00815	7.42	130.7	131.03	1.21	1.25	0.5
LowerTrib	6092.03	2-yr	15.98	15.02		6727.09	6727.69	6727.43	6727.73	0.009668	2.07	20.15	50.16	0.47	5.21	0.24
LowerTrib	6092.03	5-yr	33.09	57.91		6727.09	6728.04	6727.8	6728.13	0.010413	2.88	44.24	91.57	0.62	5.11	0.31
LowerTrib	6092.03	10-yr	39.09	100.83	0.09	6727.09	6728.21	6727.97	6728.35	0.010505	3.51	65.69	166.75	0.85	5.07	0.26
LowerTrib	6092.03	25-yr	98.85	198.69	2.46	6727.09	6728.49	6728.15	6728.72	0.011095	4.68	122.41	232.26	0.94	4.84	0.36
LowerTrib	6092.03	50-yr	160.26	282.55	7.18	6727.09	6728.67	6728.15	6728.97	0.011786	5.49	166.94	263.08	0.98	4.74	0.47
LowerTrib	6092.03	100-yr	216.86	360.29	12.84	6727.09	6728.82	6728.78	6729.19	0.012241	6.12	213.81	372.65	1.13	4.67	0.44
LowerTrib	5692.03	2-yr		31		6721.62	6722.33	6722.33	6722.52	0.018392	3.46	8.96	24.22	1	0.1	0.42
LowerTrib	5692.03	5-yr		91		6721.62	6722.73	6722.73	6723.02	0.015882	4.3	21.16	36.94	1	0.16	0.57
LowerTrib	5692.03	10-yr		140		6721.62	6722.94	6722.94	6723.29	0.015479	4.75	29.5	43.55	1.02	0.21	0.65
LowerTrib	5692.03	25-yr	3.68	296.32		6721.62	6723.45	6723.45	6723.88	0.013111	5.25	61.31	86.31	1.09	0.33	0.58
LowerTrib	5692.03	50-yr	14.36	435.64		6721.62	6723.77	6723.77	6724.24	0.011805	5.61	93.6	126.3	1.13	0.45	0.55
LowerTrib	5692.03	100-yr	30.23	559.62	0.15	6721.62	6723.98	6723.98	6724.51	0.011095	5.99	123.63	159.09	1.17	0.57	0.54
LowerTrib	5357.976	2-yr	16.3	8.2	6.5	6715.43	6722.05	6716.64	6722.05	0.000002	0.16	708.19	431.21	0.01		0
LowerTrib	5357.976	5-yr	48.29	23.04	19.67	6715.43	6722.15	6717.62	6722.15	0.000013	0.45	750.21	442.94	0.03		0
LowerTrib	5357.976	10-yr	75.25	34.79	29.96	6715.43	6722.21	6718.21	6722.21	0.000029	0.67	776.86	463.14	0.05		0
LowerTrib	5357.976	25-yr	164.37	70.62	65.01	6715.43	6722.35	6719.79	6722.36	0.000109	1.32	845.27	484.78	0.09		0.01
LowerTrib	5357.976	50-yr	247.32	100.91	101.77	6715.43	6722.46	6720.68	6722.47	0.000209	1.86	898.99	497.03	0.13		0.02
LowerTrib	5357.976	100-yr	323.2	128.5	138.3	6715.43	6722.54	6721.33	6722.56	0.000324	2.34	940.18	508.57	0.15		0.04
LowerTrib	5333.859		Culvert													
LowerTrib	5309.4	2-yr		31		6715.25	6716.81	6716.13	6716.88	0.003804	2.07	15	12.93	0.32	1.11	0.28
LowerTrib	5309.4	5-yr		91		6715.25	6717.72	6716.78	6717.92	0.00582	3.52	25.83	14.01	0.42	1.46	0.7
LowerTrib	5309.4	10-yr		140		6715.25	6718.21	6717.18	6718.51	0.007011	4.43	31.63	14.58	0.48	1.72	1.04
LowerTrib	5309.4	25-yr		299.99	0.01	6715.25	6719.38	6718.25	6719.88	0.010047	5.67	53	18.95	0.6	2.37	1.43
LowerTrib	5309.4	50-yr	18.34	416.84	14.82	6715.25	6720.07	6719.12	6720.68	0.010375	6.52	104.26	157.22	1.36	2.78	0.42
LowerTrib	5309.4	100-yr	85.91	443.26	60.83	6715.25	6720.53	6720.53	6720.99	0.008181	6.22	194.27	224.38	1.03	2.6	0.43

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	5003.36	2-yr		32		6714.24	6715.75		6715.78	0.003332	1.39	22.99	31.3	0.29	0.69	0.15
LowerTrib	5003.36	5-yr	0.03	94.84	1.12	6714.24	6716.38		6716.45	0.003743	2.11	47.42	46.37	0.37	0.85	0.24
LowerTrib	5003.36	10-yr	0.64	145.37	3.98	6714.24	6716.7		6716.8	0.004201	2.59	63.66	57.56	0.43	0.95	0.29
LowerTrib	5003.36	25-yr	6.83	291.1	22.07	6714.24	6717.32		6717.51	0.00556	3.73	106.24	79.76	0.54	1.22	0.46
LowerTrib	5003.36	50-yr	14.95	411.94	43.1	6714.24	6717.62		6717.92	0.00722	4.63	132.16	90.67	0.64	1.33	0.65
LowerTrib	5003.36	100-yr	25.29	525.89	68.82	6714.24	6717.87		6718.26	0.00855	5.37	156	99.11	0.7	1.42	0.84
LowerTrib	4892.03	2-yr		32		6713.97	6715		6715.08	0.014841	2.36	13.58	25.8	0.57	5.56	0.49
LowerTrib	4892.03	5-yr		94.26	1.74	6713.97	6715.4	6715.25	6715.6	0.02254	3.6	28.77	58.39	0.9	5.41	0.69
LowerTrib	4892.03	10-yr		139.16	10.84	6713.97	6715.62	6715.55	6715.85	0.024958	3.98	44.91	88.55	0.95	5.33	0.79
LowerTrib	4892.03	25-yr	4.92	262.44	52.64	6713.97	6715.95	6715.94	6716.3	0.029361	5.14	82.88	133.64	1.06	5.08	1.14
LowerTrib	4892.03	50-yr	20.92	351.27	97.81	6713.97	6716.23	6716.17	6716.59	0.023329	5.4	123.13	151.49	0.94	5.01	1.18
LowerTrib	4892.03	100-yr	41.58	435.64	142.78	6713.97	6716.46	6716.34	6716.84	0.021044	5.7	158.75	164.36	0.89	4.95	1.27
LowerTrib	4492.03	2-yr		32		6708.3	6709.45	6709.2	6709.52	0.013043	2.24	14.28	26.52	0.54	4.45	0.44
LowerTrib	4492.03	5-yr	0	95.98	0.02	6708.3	6710.1	6709.67	6710.2	0.008915	2.52	38.16	47.12	0.49	4.63	0.45
LowerTrib	4492.03	10-yr	0.22	148.55	1.24	6708.3	6710.39	6709.93	6710.52	0.00819	2.93	53.56	61.11	0.55	4.64	0.45
LowerTrib	4492.03	25-yr	7.8	289.84	22.36	6708.3	6711.03	6710.45	6711.22	0.006951	3.64	113.03	123.8	0.64	4.71	0.4
LowerTrib	4492.03	50-yr	23.91	397.58	48.51	6708.3	6711.34	6710.87	6711.58	0.007721	4.26	154.21	147.12	0.68	4.77	0.5
LowerTrib	4492.03	100-yr	44.45	496.38	79.17	6708.3	6711.61	6711.13	6711.89	0.008066	4.72	198.87	203.2	0.76	4.87	0.49
LowerTrib	4119.845	2-yr		32		6704.18	6705.01		6705.07	0.009575	1.95	16.4	29.78	0.46	1.54	0.33
LowerTrib	4119.845	5-yr		96		6704.18	6705.42		6705.58	0.015616	3.17	30.24	38.14	0.63	1.76	0.77
LowerTrib	4119.845	10-yr		149.9	0.1	6704.18	6705.66		6705.88	0.017581	3.75	40.29	47.39	0.72	1.93	0.93
LowerTrib	4119.845	25-yr		313.09	6.91	6704.18	6706.11	6705.98	6706.5	0.023882	5.03	68.8	137.25	1.24	2.25	0.75
LowerTrib	4119.845	50-yr		417.68	52.32	6704.18	6706.42	6706.42	6706.81	0.020655	5.24	121.86	192.12	1.1	2.33	0.82
LowerTrib	4119.845	100-yr	1.18	505.62	113.21	6704.18	6706.62	6706.62	6707.02	0.020296	5.53	163.9	236.62	1.07	2.37	0.88
LowerTrib	3922.506	2-yr	2.24	16.39	13.37	6702.73	6703.53	6703.36	6703.54	0.006347	1.25	42.37	209.07	0.35	1.06	0.1
LowerTrib	3922.506	5-yr	12.98	36.1	46.92	6702.73	6703.8	6703.52	6703.82	0.005539	1.54	107.89	323.99	0.32	0.84	0.13
LowerTrib	3922.506	10-yr	23.45	51.83	74.71	6702.73	6703.93	6703.64	6703.95	0.005901	1.81	149.85	397.36	0.34	0.82	0.15
LowerTrib	3922.506	25-yr	73.04	93.77	153.19	6702.73	6704.22	6703.83	6704.25	0.006205	2.33	275.59	527.78	0.35	0.86	0.22
LowerTrib	3922.506	50-yr	111.94	123.86	234.19	6702.73	6704.35	6703.97	6704.4	0.007121	2.71	341.57	547.67	0.37	0.85	0.3
LowerTrib	3922.506	100-yr	151.69	150.88	317.44	6702.73	6704.48	6704.06	6704.53	0.007395	2.96	407.21	568.55	0.37	0.84	0.36
LowerTrib	3847.389	2-yr		32		6701.5	6702.28	6702.28	6702.47	0.050985	3.55	9.01	23.34	1.01	2.08	1.23
LowerTrib	3847.389	5-yr		91.44	4.56	6701.5	6702.77	6702.77	6702.97	0.03106	3.68	31.54	112.45	1.2	1.73	0.54
LowerTrib	3847.389	10-yr	0	122.9	27.1	6701.5	6702.96	6702.96	6703.13	0.024955	3.69	62.06	218.65	1.11	1.74	0.44
LowerTrib	3847.389	25-yr	12.08	199.35	108.57	6701.5	6703.19	6703.19	6703.39	0.026473	4.47	131.78	350.05	1.04	2.14	0.62
LowerTrib	3847.389	50-yr	40.27	239.03	190.7	6701.5	6703.38	6703.33	6703.55	0.019615	4.39	209.86	421.89	0.83	2.19	0.61
LowerTrib	3847.389	100-yr	71.49	281.17	267.34	6701.5	6703.52	6703.42	6703.69	0.018109	4.58	271.91	480.23	0.77	2.19	0.64

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	3840		Lat Struct													
LowerTrib	3691.183	2-yr	31.36	0.64		6699.33	6699.63		6699.65	0.005802	0.63	29.61	48.4	0.25	1.16	0.22
LowerTrib	3691.183	5-yr	82.25	13.75		6699.33	6700.28		6700.31	0.005397	1.32	72.57	86.22	0.25	1.37	0.28
LowerTrib	3691.183	10-yr	123.18	26.82		6699.33	6700.59		6700.63	0.00604	1.41	103.33	121.38	0.28	1.51	0.32
LowerTrib	3691.183	25-yr	232.64	86.53	0.62	6699.33	6701		6701.06	0.008087	2.24	161.37	166.05	0.36	1.62	0.49
LowerTrib	3691.183	50-yr	278.96	158.76	5.76	6699.33	6701.26		6701.35	0.010179	3.06	213.64	242.47	0.44	1.8	0.56
LowerTrib	3691.183	100-yr	356.55	200.11	11.88	6699.33	6701.4		6701.5	0.010756	3.42	246.57	246.25	0.46	1.83	0.67
LowerTrib	3541.746	2-yr	28.61	3.39		6697.87	6698.46		6698.49	0.010982	1.34	22.3	39.02	0.33	0.26	0.38
LowerTrib	3541.746	5-yr	74.8	21.2		6697.87	6698.9		6698.94	0.018877	2.32	57.92	149.13	0.49	0.33	0.45
LowerTrib	3541.746	10-yr	123.41	26.59	0	6697.87	6699.07		6699.12	0.020044	1.87	86.78	188.54	0.45	0.33	0.57
LowerTrib	3541.746	25-yr	225.55	73.12	3.49	6697.87	6699.36		6699.43	0.015721	2.54	146.41	220.56	0.46	0.32	0.65
LowerTrib	3541.746	50-yr	272.99	96.33	7.24	6697.87	6699.47		6699.55	0.014922	2.8	171.75	231.95	0.47	0.32	0.68
LowerTrib	3541.746	100-yr	325.96	122.69	13.06	6697.87	6699.59		6699.68	0.014404	3.05	199.24	247.88	0.49	0.32	0.72
LowerTrib	3510.294	2-yr	14.92	17.08		6697.28	6698.21		6698.22	0.006384	1.17	30.63	94.48	0.33	0.64	0.13
LowerTrib	3510.294	5-yr	38.68	57.32		6697.28	6698.58		6698.61	0.006677	1.83	81.39	184.78	0.4	0.69	0.18
LowerTrib	3510.294	10-yr	70.48	79.52		6697.28	6698.74		6698.79	0.006411	2.02	112.1	187.35	0.37	0.73	0.24
LowerTrib	3510.294	25-yr	156.09	142.06	0.21	6697.28	6699.05		6699.12	0.006866	2.58	171.05	207.74	0.39	0.84	0.35
LowerTrib	3510.294	50-yr	195.15	170.42	1.44	6697.28	6699.16		6699.24	0.007187	2.81	194.35	226.11	0.42	0.89	0.38
LowerTrib	3510.294	100-yr	239.01	201.65	4.52	6697.28	6699.27		6699.36	0.00747	3.04	219.94	237.68	0.44	0.92	0.43
LowerTrib	3391.142	2-yr	27.59	4.41		6697.14	6697.58	6697.22	6697.58	0.004544	0.77	46.73	127.64	0.2	1.14	0.1
LowerTrib	3391.142	5-yr	76.24	17.96	0.01	6697.14	6697.9	6697.43	6697.92	0.004957	1.14	94.19	162.47	0.23	1.26	0.18
LowerTrib	3391.142	10-yr	110.43	27.84	0.18	6697.14	6698.03	6697.54	6698.06	0.005677	1.28	116.47	182.22	0.26	1.26	0.23
LowerTrib	3391.142	25-yr	181.74	58.84	2.23	6697.14	6698.23		6698.27	0.007197	1.86	154.64	201.97	0.33	1.27	0.34
LowerTrib	3391.142	50-yr	211.17	72.45	3.87	6697.14	6698.3		6698.35	0.007767	2.06	168.58	208.71	0.35	1.27	0.39
LowerTrib	3391.142	100-yr	242.88	88.58	6.64	6697.14	6698.39	6697.82	6698.44	0.007906	2.25	186.78	217.61	0.36	1.32	0.42
LowerTrib	3292.03	2-yr	27.61	4.02	0.38	6696.2	6696.34	6696.34	6696.44	0.065468	1.35	14.34	93.01	1.11	3.93	0.63
LowerTrib	3292.03	5-yr	48.78	32.74	12.45	6696.2	6696.52	6696.51	6696.66	0.076348	3.09	34.27	124.07	0.98	3.96	1.32
LowerTrib	3292.03	10-yr	47.96	60.71	27.1	6696.2	6696.67	6696.6	6696.79	0.051492	3.4	56.97	179.24	0.84	3.93	1.02
LowerTrib	3292.03	25-yr	84.07	100.61	44.03	6696.2	6696.88		6697	0.030555	3.55	98.68	222.47	0.72	3.89	0.85
LowerTrib	3292.03	50-yr	98.52	114.83	52.89	6696.2	6696.96		6697.07	0.026323	3.58	116.09	239.91	0.69	3.87	0.79
LowerTrib	3292.03	100-yr	113.72	130.99	63.4	6696.2	6696.99		6697.13	0.028525	3.87	124.84	244.44	0.73	3.83	0.91
LowerTrib	2845.056	2-yr		0.7	31.3	6691.34	6692.32		6692.33	0.003268	0.8	58.55	159.55	0.16	0.03	0.07
LowerTrib	2845.056	5-yr	0	1.62	92.35	6691.34	6692.69		6692.7	0.003178	0.96	125.88	211.85	0.17	0.05	0.12
LowerTrib	2845.056	10-yr	0.2	2.44	133.13	6691.34	6692.85		6692.86	0.003454	1.16	161.58	243.68	0.18	0.05	0.14
LowerTrib	2845.056	25-yr	1.5	4.14	223.07	6691.34	6693.1		6693.11	0.004003	1.5	229.82	305.06	0.2	0.06	0.19
LowerTrib	2845.056	50-yr	2.57	4.83	258.84	6691.34	6693.18		6693.2	0.004215	1.62	256.55	330.91	0.21	0.07	0.2

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	2845.056	100-yr	3.76	5.34	299.01	6691.34	6693.27		6693.29	0.00402	1.66	285.48	335.16	0.21	0.07	0.21
LowerTrib	2814.937	2-yr	0.01	3.34	28.66	6690.86	6692.3		6692.3	0.000449	0.52	116.56	213.19	0.07	0.01	0.02
LowerTrib	2814.937	5-yr	0.09	8.78	85.1	6690.86	6692.65		6692.65	0.000918	0.95	205.9	300.77	0.11	0.01	0.04
LowerTrib	2814.937	10-yr	0.18	11.28	124.32	6690.86	6692.8		6692.81	0.000996	1.08	253.27	314.16	0.11	0.02	0.05
LowerTrib	2814.937	25-yr	1.44	16.66	210.61	6690.86	6693.04		6693.05	0.001242	1.35	330.5	333.57	0.13	0.02	0.08
LowerTrib	2814.937	50-yr	2.26	18.72	245.26	6690.86	6693.12		6693.13	0.001324	1.44	357.81	343.39	0.14	0.03	0.09
LowerTrib	2814.937	100-yr	3.54	20.93	283.63	6690.86	6693.21		6693.22	0.001394	1.53	387.71	352.57	0.14	0.03	0.1
LowerTrib	2791.836	2-yr		11.93	20.07	6690.25	6692.29		6692.29	0.000167	0.4	147.29	222.31	0.06	0.01	0.01
LowerTrib	2791.836	5-yr	0.36	30.17	63.44	6690.25	6692.63		6692.64	0.000426	0.75	234.1	282.37	0.1	0.02	0.02
LowerTrib	2791.836	10-yr	0.98	41.61	93.19	6690.25	6692.79		6692.79	0.000574	0.94	279.31	317.35	0.12	0.02	0.03
LowerTrib	2791.836	25-yr	3.88	62.73	162.09	6690.25	6693.02		6693.03	0.000815	1.23	356.46	338.07	0.14	0.03	0.05
LowerTrib	2791.836	50-yr	5.61	70.63	190.01	6690.25	6693.1		6693.11	0.000894	1.32	382.94	339.9	0.14	0.03	0.06
LowerTrib	2791.836	100-yr	7.76	79.09	221.25	6690.25	6693.18		6693.19	0.000966	1.41	411.57	341.86	0.15	0.04	0.07
LowerTrib	2768.694	2-yr	0.11	8.66	23.23	6690.07	6692.28		6692.28	0.00135	0.87	73.75	183.1	0.15	0.13	0.03
LowerTrib	2768.694	5-yr	1.81	18.73	73.43	6690.07	6692.61		6692.62	0.001918	1.32	149.44	260.79	0.18	0.16	0.07
LowerTrib	2768.694	10-yr	4.23	23.74	107.81	6690.07	6692.76		6692.77	0.00204	1.48	188.47	272.75	0.18	0.16	0.09
LowerTrib	2768.694	25-yr	10.74	34.32	183.64	6690.07	6692.98		6693	0.002472	1.82	250.85	284.24	0.2	0.18	0.14
LowerTrib	2768.694	50-yr	13.57	38.32	214.36	6690.07	6693.05		6693.07	0.002613	1.93	272.19	287.21	0.2	0.18	0.15
LowerTrib	2768.694	100-yr	16.88	42.57	248.66	6690.07	6693.14		6693.16	0.002723	2.04	295.6	290.44	0.21	0.19	0.17
LowerTrib	2734.887	2-yr	2.44	14.16	15.4	6689.71	6692.07	6692.07	6692.15	0.028763	3.26	20.52	86.17	0.84	1.78	0.42
LowerTrib	2734.887	5-yr	16.48	22.29	55.19	6689.71	6692.39		6692.45	0.021322	3.45	57.87	146.81	0.58	1.82	0.52
LowerTrib	2734.887	10-yr	29.27	26.37	80.13	6689.71	6692.54		6692.6	0.018296	3.53	83.82	196.64	0.55	1.71	0.48
LowerTrib	2734.887	25-yr	50.26	32.81	145.64	6689.71	6692.75		6692.82	0.016012	3.7	128.37	224.4	0.48	1.58	0.56
LowerTrib	2734.887	50-yr	58.19	35.25	172.81	6689.71	6692.82		6692.89	0.015628	3.78	144.08	231.89	0.47	1.54	0.6
LowerTrib	2734.887	100-yr	67.59	38.16	202.35	6689.71	6692.89		6692.97	0.015394	3.88	162.09	247.96	0.47	1.51	0.62
LowerTrib	2623.993	2-yr		32		6687.4	6689.39	6688.9	6689.52	0.010166	2.93	10.92	10.55	0.51	4.28	0.61
LowerTrib	2623.993	5-yr	0.81	93.15		6687.4	6690.43	6689.73	6690.63	0.012842	3.63	27.98	54.8	0.89	4.72	0.4
LowerTrib	2623.993	10-yr	11.97	123.81		6687.4	6690.67	6690.19	6690.89	0.013023	3.97	45.46	81.11	0.9	4.64	0.45
LowerTrib	2623.993	25-yr	46.76	175.1	6.84	6687.4	6691	6690.87	6691.25	0.012541	4.47	84.76	143.24	0.91	4.42	0.46
LowerTrib	2623.993	50-yr	61.66	191.85	12.74	6687.4	6691.11	6690.97	6691.35	0.012191	4.6	100.69	159.04	0.88	4.33	0.48
LowerTrib	2623.993	100-yr	79.72	210.06	18.33	6687.4	6691.22	6691.05	6691.47	0.01188	4.73	121.62	208.39	0.92	4.23	0.43
LowerTrib	2400	2-yr		32		6684.41	6685	6685	6685.23	0.048034	3.86	8.3	18.07	1	0.33	1.37
LowerTrib	2400	5-yr		93.97		6684.41	6685.49	6685.49	6685.91	0.040332	5.2	18.08	21.99	1.01	0.61	2.05
LowerTrib	2400	10-yr		135.77		6684.41	6685.75	6685.75	6686.24	0.037394	5.66	23.98	24.2	1	0.74	2.28
LowerTrib	2400	25-yr		228.71		6684.41	6686.19	6686.19	6686.83	0.03465	6.42	35.61	28.04	1	0.97	2.71
LowerTrib	2400	50-yr		266.24		6684.41	6686.34	6686.34	6687.03	0.034194	6.68	39.88	29.33	1.01	1.04	2.86

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	2400	100-yr		308.11		6684.41	6686.5	6686.5	6687.24	0.033404	6.9	44.66	30.7	1.01	1.11	2.99
LowerTrib	2239.262	2-yr		32		6682.37	6684.17		6684.18	0.000505	0.75	42.95	36.11	0.12	0.05	0.04
LowerTrib	2239.262	5-yr		93.97		6682.37	6684.88		6684.91	0.001035	1.31	71.59	44	0.18	0.1	0.1
LowerTrib	2239.262	10-yr	0	135.77		6682.37	6685.18		6685.22	0.001318	1.59	85.33	48.53	0.21	0.13	0.14
LowerTrib	2239.262	25-yr	1	227.7		6682.37	6685.63		6685.7	0.00188	2.13	110.58	67.48	0.29	0.17	0.19
LowerTrib	2239.262	50-yr	2.25	263.99	0	6682.37	6685.77		6685.85	0.002062	2.32	121.1	82.13	0.33	0.18	0.19
LowerTrib	2239.262	100-yr	4.46	303.59	0.06	6682.37	6685.9		6686	0.002273	2.52	132.51	96.88	0.38	0.19	0.19
LowerTrib	2193.74	2-yr		32		6681.73	6684.09		6684.13	0.003032	1.55	20.7	21.26	0.28	0.24	0.17
LowerTrib	2193.74	5-yr	0.17	93.8		6681.73	6684.7		6684.81	0.006001	2.6	36.8	41.11	0.48	0.36	0.32
LowerTrib	2193.74	10-yr	2.99	132.77	0.02	6681.73	6684.95		6685.1	0.00702	3.06	48.57	58.55	0.58	0.41	0.36
LowerTrib	2193.74	25-yr	13.81	206.83	8.06	6681.73	6685.34		6685.53	0.007727	3.75	81.54	105.27	0.72	0.42	0.37
LowerTrib	2193.74	50-yr	18.86	233.17	14.21	6681.73	6685.46		6685.68	0.007834	3.95	95.77	121.25	0.73	0.41	0.38
LowerTrib	2193.74	100-yr	25.22	261.68	21.21	6681.73	6685.57		6685.8	0.008223	4.19	109.68	136.93	0.76	0.4	0.41
LowerTrib	2166.781	2-yr		32		6681.2	6683.63	6683.63	6683.89	0.066564	4.06	7.88	17.08	1.05	1.6	1.6
LowerTrib	2166.781	5-yr	8.47	85.49		6681.2	6684.12	6684.12	6684.44	0.042465	4.76	23.09	40.75	1.07	0.16	1.39
LowerTrib	2166.781	10-yr	18.27	117.5	0	6681.2	6684.3	6684.3	6684.69	0.04226	5.3	30.64	44.24	1.06	0.19	1.7
LowerTrib	2166.781	25-yr	42.76	183.64	2.3	6681.2	6684.64	6684.64	6685.12	0.035873	6.04	49.04	61.71	1.09	0.3	1.68
LowerTrib	2166.781	50-yr	53.38	208.03	4.82	6681.2	6684.76	6684.76	6685.26	0.034145	6.25	56.74	67.59	1.09	0.35	1.7
LowerTrib	2166.781	100-yr	66.52	231.25	10.34	6681.2	6684.93	6684.93	6685.4	0.028903	6.21	72.17	109.36	1.2	0.37	1.15
LowerTrib	2136.729	2-yr		32		6679.49	6680.81	6680.8	6681.13	0.043299	4.57	7	10.68	1	0.28	1.72
LowerTrib	2136.729	5-yr	1.04	92.93		6679.49	6683.6		6683.63	0.000781	1.34	73.36	43.89	0.18	0.02	0.08
LowerTrib	2136.729	10-yr	3.62	131.83	0.32	6679.49	6684		6684.04	0.000897	1.59	94.02	65.61	0.23	0.03	0.08
LowerTrib	2136.729	25-yr	5.93	222.32	0.46	6679.49	6683.98		6684.09	0.002613	2.71	92.88	64.31	0.39	0.08	0.23
LowerTrib	2136.729	50-yr	6.82	258.93	0.49	6679.49	6683.97		6684.12	0.00358	3.16	92.41	63.77	0.46	0.12	0.32
LowerTrib	2136.729	100-yr	8.25	299.1	0.75	6679.49	6684		6684.2	0.0046	3.61	94.22	65.83	0.52	0.16	0.4
LowerTrib	2107.71	2-yr		32		6678.58	6680.81	6679.52	6680.84	0.001685	1.53	20.91	13.79	0.22		0.15
LowerTrib	2107.71	5-yr		93.97		6678.58	6683.58	6680.34	6683.61	0.000414	1.43	65.53	133.79	0.13		0.09
LowerTrib	2107.71	10-yr		135.77		6678.58	6683.95	6680.71	6684.01	0.000639	1.89	71.75	145.47	0.16		0.16
LowerTrib	2107.71	25-yr		228.71		6678.58	6683.84	6681.32	6684.01	0.001978	3.27	69.9	141.85	0.28		0.48
LowerTrib	2107.71	50-yr		266.24		6678.58	6683.78	6681.65	6684.01	0.002827	3.87	68.8	137.15	0.34		0.68
LowerTrib	2107.71	100-yr		308.11		6678.58	6683.72	6681.85	6684.04	0.003971	4.54	67.82	136.08	0.4		0.94
LowerTrib	2073.649		Culvert													
LowerTrib	2032.349	2-yr		32		6676.31	6677.34	6677.34	6677.6	0.016528	4.1	7.81	14.92	1	0.54	0.53
LowerTrib	2032.349	5-yr		93.97		6676.31	6677.89	6677.89	6678.37	0.013562	5.59	16.81	19.52	1	0.55	0.81
LowerTrib	2032.349	10-yr		135.77		6676.31	6678.19	6678.19	6678.77	0.012175	6.15	22.08	21.59	0.98	0.5	0.91

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	2032.349	25-yr		228.71		6676.31	6678.71	6678.71	6679.5	0.011109	7.14	32.05	24.79	0.98	0.51	1.11
LowerTrib	2032.349	50-yr		266.24		6676.31	6678.89	6678.89	6679.76	0.010994	7.48	35.58	25.87	0.99	0.52	1.19
LowerTrib	2032.349	100-yr		308.11		6676.31	6679.09	6679.09	6680.03	0.010699	7.78	39.6	27.06	0.99	0.5	1.25
LowerTrib	1984.905	2-yr	0.65	31.35		6674.87	6676.05	6675.88	6676.25	0.007471	3.6	9.63	14.23	0.76	3.57	0.31
LowerTrib	1984.905	5-yr	5.07	88.9		6674.87	6676.69	6676.56	6677.12	0.009097	5.41	20.44	19.64	0.91	3.65	0.58
LowerTrib	1984.905	10-yr	9.4	126.27	0.1	6674.87	6677.05	6676.87	6677.56	0.007906	5.97	28.08	22.7	0.91	3.77	0.6
LowerTrib	1984.905	25-yr	18.43	199.53	0.75	6674.87	6677.42	6677.39	6678.26	0.009912	7.67	37.09	26.03	1.08	4.14	0.86
LowerTrib	1984.905	50-yr	24.85	239.78	1.62	6674.87	6677.65	6677.65	6678.61	0.009881	8.25	43.43	28.24	1.12	4.1	0.93
LowerTrib	1984.905	100-yr	31.22	274.09	2.79	6674.87	6677.86	6677.86	6678.89	0.009513	8.6	49.65	30.25	1.12	3.92	0.95
LowerTrib	1599.971	2-yr		32		6671.22	6672.44	6672.37	6672.67	0.011829	3.86	8.29	13.4	0.87	1.7	0.45
LowerTrib	1599.971	5-yr		93.97		6671.22	6673.14		6673.47	0.009746	4.63	20.3	21.65	0.84	1.92	0.56
LowerTrib	1599.971	10-yr		135.77		6671.22	6673.38	6673.31	6673.8	0.012263	5.21	26.08	27.81	0.95	2.02	0.71
LowerTrib	1599.971	25-yr		206.24	12.46	6671.22	6673.79	6673.79	6674.12	0.010834	4.75	61.01	127.95	1.18	1.84	0.32
LowerTrib	1599.971	50-yr	0	243.06	23.18	6671.22	6673.9	6673.9	6674.25	0.010518	4.97	75.6	137.6	1.13	1.82	0.36
LowerTrib	1599.971	100-yr	0.05	276.84	31.21	6671.22	6674	6674	6674.37	0.009843	5.14	91.48	175.25	1.19	1.78	0.32
LowerTrib	1286.198	2-yr		32		6669.25	6670.9		6670.97	0.002972	2.06	15.52	22.99	0.44	0.23	0.12
LowerTrib	1286.198	5-yr	0.02	91.75	2.19	6669.25	6671.44		6671.55	0.003948	2.73	40.04	88.41	0.71	0.17	0.11
LowerTrib	1286.198	10-yr	1.3	127.09	7.38	6669.25	6671.64		6671.77	0.003688	3.04	61.62	128.86	0.75	0.18	0.11
LowerTrib	1286.198	25-yr	8.31	187.54	22.86	6669.25	6671.93		6672.09	0.0035	3.5	106.03	175.24	0.74	0.2	0.13
LowerTrib	1286.198	50-yr	13.49	219.24	33.51	6669.25	6672.06		6672.24	0.003499	3.73	129.89	195.69	0.73	0.2	0.14
LowerTrib	1286.198	100-yr	18.49	246.32	43.3	6669.25	6672.16		6672.35	0.003515	3.91	151.02	217.44	0.74	0.21	0.15
LowerTrib	1221.072	2-yr	0.06	30.64	1.3	6669.15	6670.68		6670.74	0.004182	1.99	19.66	62.26	0.61	0.26	0.08
LowerTrib	1221.072	5-yr	1.58	76.27	16.12	6669.15	6671.32		6671.38	0.001625	2.16	73.1	107.68	0.42	0.13	0.07
LowerTrib	1221.072	10-yr	2.98	105.32	27.48	6669.15	6671.51		6671.59	0.001834	2.54	95.34	125.41	0.46	0.15	0.09
LowerTrib	1221.072	25-yr	6.73	161.13	50.84	6669.15	6671.77		6671.89	0.002373	3.26	136.92	190.07	0.59	0.18	0.11
LowerTrib	1221.072	50-yr	12.59	188.13	65.52	6669.15	6671.89		6672.03	0.002525	3.53	160.59	197.55	0.59	0.19	0.13
LowerTrib	1221.072	100-yr	18.42	210.65	79.04	6669.15	6671.99		6672.14	0.002624	3.74	180.35	203.12	0.58	0.19	0.14
LowerTrib	1163.529	2-yr		32		6668.68	6670.36		6670.48	0.004743	2.72	11.75	15.9	0.56	0.37	0.21
LowerTrib	1163.529	5-yr	0.51	87.9	5.56	6668.68	6671.14		6671.25	0.003285	2.63	48.57	116.82	0.7	0.34	0.08
LowerTrib	1163.529	10-yr	4.1	119.4	12.27	6668.68	6671.32		6671.44	0.003561	2.98	72.38	146	0.7	0.31	0.11
LowerTrib	1163.529	25-yr	13.65	176.91	28.15	6668.68	6671.55		6671.71	0.004175	3.58	108.62	172.17	0.72	0.22	0.16
LowerTrib	1163.529	50-yr	19.86	206.4	39.98	6668.68	6671.67		6671.84	0.004158	3.81	129.62	180.51	0.7	0.24	0.19
LowerTrib	1163.529	100-yr	25.63	230.25	52.23	6668.68	6671.77		6671.95	0.004028	3.94	148.38	183.52	0.67	0.23	0.2
LowerTrib	1111.341	2-yr		32		6668.28	6669.84		6670.11	0.010648	4.16	7.7	10.01	0.84	0.27	0.49
LowerTrib	1111.341	5-yr		93.97		6668.28	6670.59	6670.58	6670.9	0.015334	4.52	20.81	32.36	0.99	0.49	0.6
LowerTrib	1111.341	10-yr	0.54	132.52	2.71	6668.28	6670.87	6670.83	6671.14	0.009896	4.22	39.23	119.5	1.28	0.53	0.2

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	1111.341	25-yr	13.98	180.67	24.05	6668.28	6671.31		6671.49	0.004201	3.69	102.28	155.82	0.73	0.25	0.17
LowerTrib	1111.341	50-yr	18.76	214.97	32.51	6668.28	6671.38		6671.6	0.005018	4.17	112.56	158.62	0.79	0.52	0.22
LowerTrib	1111.341	100-yr	24.97	239.31	43.83	6668.28	6671.5		6671.72	0.004616	4.25	132.44	164.58	0.74	0.53	0.23
LowerTrib	1008.56	2-yr	0.15	25.44	6.41	6667.33	6669.8		6669.83	0.000812	1.7	35.44	56.17	0.34	0.13	0.03
LowerTrib	1008.56	5-yr	2.62	64.45	26.9	6667.33	6670.29		6670.4	0.001919	3.2	70.56	97.87	0.55	0.19	0.09
LowerTrib	1008.56	10-yr	3.98	88.8	42.99	6667.33	6670.43		6670.61	0.002895	4.11	86.28	130.24	0.73	0.17	0.12
LowerTrib	1008.56	25-yr	31.4	100.57	86.73	6667.33	6671.15		6671.24	0.001373	3.45	231.22	280.63	0.46	0.06	0.07
LowerTrib	1008.56	50-yr	20.89	148.85	96.5	6667.33	6670.77	6670.61	6671.08	0.00488	5.91	141.33	193.52	0.92	0.24	0.22
LowerTrib	1008.56	100-yr	28.01	165.59	114.51	6667.33	6670.85	6670.74	6671.2	0.005428	6.37	157.05	208.9	0.96	0.26	0.25
LowerTrib	961.3436	2-yr		32		6667.64	6669.35	6669.35	6669.7	0.01665	4.77	6.71	9.6	1	0.29	0.67
LowerTrib	961.3436	5-yr	0.48	65.72	27.76	6667.64	6669.93	6669.93	6670.22	0.009657	5.12	43.62	101.44	1.16	0.21	0.26
LowerTrib	961.3436	10-yr	3.73	68.89	63.16	6667.64	6670.3		6670.43	0.004248	4.08	109.67	226.19	0.75	0.1	0.13
LowerTrib	961.3436	25-yr	23.85	59.15	135.7	6667.64	6671.15		6671.17	0.000726	2.26	340.95	318.23	0.21	0.02	0.05
LowerTrib	961.3436	50-yr	22.19	90.85	153.2	6667.64	6670.74		6670.84	0.003193	4.18	216.71	274.41	0.51	0.08	0.16
LowerTrib	961.3436	100-yr	27.87	99.15	181.09	6667.64	6670.83		6670.93	0.003291	4.37	241.59	289.47	0.5	0.09	0.17
LowerTrib	933.4749	2-yr		24.96	7.04	6667.28	6669.11		6669.24	0.00479	3.25	18.98	40.73	0.74	0.3	0.14
LowerTrib	933.4749	5-yr	0.11	52.23	41.63	6667.28	6669.89		6670.01	0.003672	3.72	68.7	127.54	0.68	0.42	0.12
LowerTrib	933.4749	10-yr	1.29	60.28	74.2	6667.28	6670.24		6670.33	0.002509	3.51	131.74	243.52	0.57	0.36	0.08
LowerTrib	933.4749	25-yr	12.68	48.11	157.92	6667.28	6671.14		6671.15	0.000451	1.92	396.03	302.64	0.15	0.24	0.04
LowerTrib	933.4749	50-yr	11.3	81.99	172.95	6667.28	6670.68		6670.76	0.002359	3.9	256.97	302.64	0.43	0.22	0.12
LowerTrib	933.4749	100-yr	14.31	87.57	206.23	6667.28	6670.77		6670.85	0.002378	4.01	284.16	302.64	0.41	0.23	0.14
LowerTrib	878.9512	2-yr		23.02	8.98	6667.13	6668.82	6668.6	6668.95	0.005974	3.27	16.21	24.37	0.61	0.92	0.24
LowerTrib	878.9512	5-yr	0.01	63.45	30.51	6667.13	6669.15	6669.15	6669.59	0.017645	6.37	24.96	30.35	1.04	1.28	0.88
LowerTrib	878.9512	10-yr	0.43	90.71	44.63	6667.13	6669.36	6669.36	6669.97	0.020272	7.51	32.26	40.69	1.24	1.41	0.98
LowerTrib	878.9512	25-yr	0.8	146.08	71.83	6667.13	6669.38	6669.38	6670.92	0.050193	11.93	32.95	43.04	2.01	2.2	2.34
LowerTrib	878.9512	50-yr	11.71	128.73	125.8	6667.13	6670.24	6670.24	6670.53	0.006368	6.1	147.05	214.8	0.92	0.75	0.27
LowerTrib	878.9512	100-yr	14.44	139.62	154.05	6667.13	6670.32	6670.32	6670.62	0.006673	6.39	164.43	250.59	0.96	0.77	0.27
LowerTrib	799.5139	2-yr		11.82	20.18	6667.02	6667.88	6667.88	6668.03	0.03087	4.79	17.19	87.52	1.24		0.38
LowerTrib	799.5139	5-yr		18.86	75.1	6667.02	6668.25	6668.16	6668.31	0.012402	3.65	70.47	166.63	0.52		0.33
LowerTrib	799.5139	10-yr		23.94	111.84	6667.02	6668.37	6668.23	6668.43	0.012428	3.76	90.67	175.18	0.49		0.4
LowerTrib	799.5139	25-yr		34.34	184.37	6667.02	6668.56	6668.34	6668.63	0.012396	4	124.93	208.79	0.49		0.46
LowerTrib	799.5139	50-yr		40.44	225.81	6667.02	6668.64	6668.39	6668.72	0.012419	4.13	143.33	219.4	0.49		0.5
LowerTrib	799.5139	100-yr		45.92	262.18	6667.02	6668.71	6668.43	6668.79	0.012422	4.23	158.64	225.6	0.49		0.54

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
LowerTrib	32376.64 Culvert #1	2-yr	7154.78	7154.77	7154.49	7154.78	7158.41	25		1.92	5	6.07
LowerTrib	32376.64 Culvert #1	5-yr	7155.53	7155.52	7155.19	7155.53	7158.41	47		2.42	6.02	7.24
LowerTrib	32376.64 Culvert #1	10-yr	7156.03	7156.01	7155.68	7156.03	7158.41	64		2.75	6.65	7.88
LowerTrib	32376.64 Culvert #1	25-yr	7156.98	7156.96	7156.66	7156.98	7158.41	100		3.39	7.81	8.78
LowerTrib	32376.64 Culvert #1	50-yr	7157.75	7157.73	7157.46	7157.75	7158.41	130		3.93	8.74	9.27
LowerTrib	32376.64 Culvert #1	100-yr	7158.28	7158.25	7158.21	7158.28	7158.41	150		4.32	9.38	9.48
LowerTrib	31486 Culvert #1	2-yr	7132.65	7132.63	7132.29	7132.65	7136.01	25		4.1	6.14	9.66
LowerTrib	31486 Culvert #1	5-yr	7133.86	7133.84	7133.51	7133.86	7136.01	47		5.07	7.63	11.15
LowerTrib	31486 Culvert #1	10-yr	7134.73	7134.71	7134.43	7134.73	7136.01	64		5.74	8.68	11.98
LowerTrib	31486 Culvert #1	25-yr	7136.03	7136.03	7136.03	7135.78	7136.01	83.58	16.42	6.73	8.69	13.29
LowerTrib	31486 Culvert #1	50-yr	7136.12	7136.12	7136.12	7135.83	7136.01	84.44	47.13	6.55	8.78	13.36
LowerTrib	31486 Culvert #1	100-yr	7136.15	7136.15	7136.15	7135.84	7136.01	84.73	66.11	6.42	8.81	13.38
LowerTrib	28298.89 Culvert #1	2-yr	7080.1	7080.08	7080	7080.1	7085.01	44		3.26	4.91	6.03
LowerTrib	28298.89 Culvert #1	5-yr	7080.8	7080.77	7080.68	7080.8	7085.01	85		3.51	6.11	7.63
LowerTrib	28298.89 Culvert #1	10-yr	7081.31	7081.27	7081.17	7081.31	7085.01	120		3.71	6.85	8.53
LowerTrib	28298.89 Culvert #1	25-yr	7082.36	7082.31	7082.36	7082.2	7085.01	190		4.34	7.99	9.9
LowerTrib	28298.89 Culvert #1	50-yr	7083.19	7083.14	7083.19	7082.77	7085.01	240		4.91	8	10.63
LowerTrib	28298.89 Culvert #1	100-yr	7083.55	7083.49	7083.99	7083.55	7085.01	280		5.06	9.33	9.33
LowerTrib	26454.70 Culvert #1	2-yr	7041.34	7041.27	7040.91	7041.34	7053.01	65		3.63	7.14	11.86
LowerTrib	26454.70 Culvert #1	5-yr	7042.92	7042.87	7042.35	7042.92	7053.01	130		4.44	8.87	14.09
LowerTrib	26454.70 Culvert #1	10-yr	7044.18	7044.14	7043.52	7044.18	7053.01	190		5.14	10.18	15.38
LowerTrib	26454.70 Culvert #1	25-yr	7046.6	7046.57	7045.9	7046.6	7053.01	310		6.79	12.77	17.24
LowerTrib	26454.70 Culvert #1	50-yr	7048.14	7048.11	7047.81	7048.14	7053.01	380		8.01	14.52	18.14
LowerTrib	26454.70 Culvert #1	100-yr	7050.48	7050.45	7050.48	7050.15	7053.01	460		10.05	16.27	19.59
LowerTrib	23413.07 Culvert #1	2-yr	6991.03	6991.03	6987.36	6991.03	7002.01	65		8.69	5.91	6.82
LowerTrib	23413.07 Culvert #1	5-yr	7002.12	7002.12	6990.68	7002.12	7002.01	113.02	17.44	19.4	10.27	10.44
LowerTrib	23413.07 Culvert #1	10-yr	7002.33	7002.33	6995.71	7002.33	7002.01	113.76	76.24	19.34	10.34	10.47
LowerTrib	23413.07 Culvert #1	25-yr	7002.57	7002.57	7002.23	7002.57	7002.01	114.56	195.17	19	10.41	10.55
LowerTrib	23413.07 Culvert #1	50-yr	7002.69	7002.69	7002.44	7002.69	7002.01	114.97	265.49	18.7	10.45	10.59
LowerTrib	23413.07 Culvert #1	100-yr	7002.82	7002.81	7002.59	7002.82	7002.01	115.41	344.6	18.42	10.49	10.63
LowerTrib	21604.86 Culvert #1	2-yr	6949.37	6949.36	6949.04	6949.37	6962.01	68		3.64	3.72	5.67
LowerTrib	21604.86 Culvert #1	5-yr	6950.62	6950.6	6950.18	6950.62	6962.01	149		4.39	5.12	7.44
LowerTrib	21604.86 Culvert #1	10-yr	6951.5	6951.48	6951	6951.5	6962.01	211		4.97	5.98	8.48
LowerTrib	21604.86 Culvert #1	25-yr	6954.25	6954.21	6953.37	6954.25	6962.01	359		7.1	8.96	10.8
LowerTrib	21604.86 Culvert #1	50-yr	6956.46	6956.43	6955.09	6956.46	6962.01	445		8.99	11.11	12.27
LowerTrib	21604.86 Culvert #1	100-yr	6959.11	6959.08	6957.25	6959.11	6962.01	534		11.32	13.33	14

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
LowerTrib	18205.02 Culvert #2	2-yr	6900.21	6900.18	6897.89	6900.2	6902.22	3.65		3.26	4.65	4.65
LowerTrib	18205.02 Culvert #1	2-yr	6900.21	6900.18	6899.88	6900.21	6902.22	101.35		3.26	7.85	8.23
LowerTrib	18205.02 Culvert #2	5-yr	6902.27	6902.24	6897.97	6902.25	6902.22	3.77	24.8	3.49	4.8	4.8
LowerTrib	18205.02 Culvert #1	5-yr	6902.27	6902.24	6901.73	6902.27	6902.22	157.43	24.8	3.49	8.18	8.18
LowerTrib	18205.02 Culvert #2	10-yr	6902.64	6902.61	6897.65	6902.64	6902.22	3.27	106.5	2.6	4.16	4.16
LowerTrib	18205.02 Culvert #1	10-yr	6902.64	6902.61	6900.81	6902.64	6902.22	136.23	106.5	2.6	7.08	7.08
LowerTrib	18205.02 Culvert #2	25-yr	6903.15	6903.1	6897.35	6903.13	6902.22	2.55	270.64	1.56	3.25	3.25
LowerTrib	18205.02 Culvert #1	25-yr	6903.15	6903.1	6900.03	6903.15	6902.22	106.81	270.64	1.56	5.55	5.55
LowerTrib	18205.02 Culvert #2	50-yr	6903.29	6903.22	6897.39	6903.27	6902.22	2.65	340.39	1.68	3.38	3.38
LowerTrib	18205.02 Culvert #1	50-yr	6903.29	6903.22	6900.14	6903.29	6902.22	110.96	340.39	1.68	5.77	5.77
LowerTrib	18205.02 Culvert #2	100-yr	6903.45	6903.37	6897.43	6903.44	6902.22	2.77	410.57	1.81	3.53	3.53
LowerTrib	18205.02 Culvert #1	100-yr	6903.45	6903.37	6900.27	6903.45	6902.22	115.66	410.57	1.81	6.01	6.01
LowerTrib	18092.76 Culvert #1	2-yr	6896.9	6896.8	6896.44	6896.9	6901.51	105		1.56	8.27	6.15
LowerTrib	18092.76 Culvert #1	5-yr	6898.75	6898.65	6898.17	6898.75	6901.51	186		2.69	10.09	8.79
LowerTrib	18092.76 Culvert #1	10-yr	6900	6899.92	6899.48	6900	6901.51	246		3.61	11.22	10.69
LowerTrib	18092.76 Culvert #1	25-yr	6901.51	6901.4	6901.51	6900.65	6901.51	282.25	450.7	4.6	9.98	15.62
LowerTrib	18092.76 Culvert #1	50-yr	6901.51	6901.35	6901.51	6900.64	6901.51	282.25	450.7	4.36	9.98	15.62
LowerTrib	18092.76 Culvert #1	100-yr	6901.51	6901.29	6901.51	6900.64	6901.51	282.25	450.7	4.15	9.98	15.62
LowerTrib	14215.60 Culvert #1	2-yr	6850.86	6850.83	6850.77	6850.86	6858.01	15		7.02	1.62	2.72
LowerTrib	14215.60 Culvert #1	5-yr	6851.2	6851.13	6851.09	6851.2	6858.01	39		6.95	2.51	3.74
LowerTrib	14215.60 Culvert #1	10-yr	6851.49	6851.37	6851.36	6851.49	6858.01	64		6.93	3.13	4.41
LowerTrib	14215.60 Culvert #1	25-yr	6852.41	6852.21	6852.24	6852.41	6858.01	170		6.94	4.71	6.11
LowerTrib	14215.60 Culvert #1	50-yr	6853.1	6852.86	6852.92	6853.1	6858.01	270		7	5.68	7.13
LowerTrib	14215.60 Culvert #1	100-yr	6853.72	6853.43	6853.52	6853.72	6858.01	370		7.08	6.43	7.92
LowerTrib	12425.19 Culvert #1	2-yr	6818.24	6818.24	6818.22	6818.24	6818.01	0.78	14	7.76	2.19	2.44
LowerTrib	12425.19 Culvert #1	5-yr	6818.4	6818.4	6818.39	6818.4	6818.01	0.8	39.71	7.61	2.23	2.49
LowerTrib	12425.19 Culvert #1	10-yr	6818.49	6818.49	6818.48	6818.49	6818.01	0.81	64.25	7.45	2.26	2.52
LowerTrib	12425.19 Culvert #1	25-yr	6818.73	6818.73	6818.73	6818.73	6818.01	0.83	170.01	7.06	2.32	2.59
LowerTrib	12425.19 Culvert #1	50-yr	6818.91	6818.9	6818.9	6818.91	6818.01	0.85	267.75	6.74	2.37	2.64
LowerTrib	12425.19 Culvert #1	100-yr	6819.06	6819.06	6819.06	6819.06	6818.01	3.28	375.76	6.57	9.16	9.16
LowerTrib	8304.048 Culvert #1	2-yr	6765.48	6765.48	6765.33	6765.48	6767.76	17		1.91	2.94	4.25
LowerTrib	8304.048 Culvert #1	5-yr	6767.49	6767.49	6766.89	6767.49	6767.76	48		3.45	6.25	6.97
LowerTrib	8304.048 Culvert #1	10-yr	6768.11	6768.11	6768.05	6768.11	6767.76	54.29	29.71	3.74	7.07	7.61
LowerTrib	8304.048 Culvert #1	25-yr	6768.2	6768.19	6768.2	6768.2	6767.76	55.17	422.05	3.26	7.19	7.74
LowerTrib	8304.048 Culvert #1	50-yr	6768.2	6768.17	6768.2	6768.2	6767.76	55.17	46.15	2.88	7.19	7.74
LowerTrib	8304.048 Culvert #1	100-yr	6768.2	6768.14	6768.17	6768.2	6767.76	54.41	46.07	2.65	7.09	7.09

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
LowerTrib	6243.929 Culvert #1	2-yr	6728.98	6728.88	6728.64	6728.98	6732.01	31		0.79	3.99	5.12
LowerTrib	6243.929 Culvert #1	5-yr	6732.01	6732.01	6731.6	6732.01	6732.01	89.43	1.57	3.38	7.71	9.52
LowerTrib	6243.929 Culvert #1	10-yr	6732.17	6732.17	6732.16	6732.17	6732.01	92.07	48.93	3.29	7.93	9.67
LowerTrib	6243.929 Culvert #1	25-yr	6732.42	6732.42	6732.43	6732.42	6732.01	94.55	202.94	3.08	8.15	8.96
LowerTrib	6243.929 Culvert #1	50-yr	6732.58	6732.58	6732.59	6732.58	6732.01	94.84	352.72	2.95	8.17	8.44
LowerTrib	6243.929 Culvert #1	100-yr	6732.68	6732.68	6732.69	6732.68	6732.01	92.09	497.91	2.73	7.93	7.93
LowerTrib	5333.859 Culvert #1	2-yr	6722.05	6722.05	6722.05	6722.05	6722.01	14.07	16.32	5.24	5.73	6.39
LowerTrib	5333.859 Culvert #1	5-yr	6722.15	6722.15	6722.14	6722.15	6722.01	14.29	75.79	4.42	5.82	6.41
LowerTrib	5333.859 Culvert #1	10-yr	6722.21	6722.21	6722.2	6722.21	6722.01	14.42	126.17	4	5.87	6.47
LowerTrib	5333.859 Culvert #1	25-yr	6722.36	6722.35	6722.35	6722.36	6722.01	14.29	288.98	2.97	5.82	5.82
LowerTrib	5333.859 Culvert #1	50-yr	6722.47	6722.46	6722.47	6722.47	6722.01	12.19	435.96	2.39	4.96	4.96
LowerTrib	5333.859 Culvert #1	100-yr	6722.56	6722.54	6722.56	6722.56	6722.01	11.45	579.01	2.01	4.66	4.66
LowerTrib	2073.649 Culvert #1	2-yr	6680.84	6680.81	6680.49	6680.84	6684.01	32		3.46	6.18	6.42
LowerTrib	2073.649 Culvert #1	5-yr	6683.61	6683.58	6683.61	6683.51	6684.01	93.97		5.69	8.1	9.79
LowerTrib	2073.649 Culvert #1	10-yr	6684.01	6683.95	6684.01	6684.01	6684.01	99.55	196.8	5.77	8.58	10.08
LowerTrib	2073.649 Culvert #1	25-yr	6684.01	6683.84	6684.01	6684.01	6684.01	99.55	196.8	5.13	8.58	10.08
LowerTrib	2073.649 Culvert #1	50-yr	6684.01	6683.78	6684.01	6684.01	6684.01	99.55	196.8	4.88	8.58	10.08
LowerTrib	2073.649 Culvert #1	100-yr	6684.04	6683.72	6684.04	6684.05	6684.01	99.96	209.5	4.63	8.61	10.12

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
LowerTrib	14388.5*	2-yr	6852.7	6852.66		0.03	0.02	25.88		15		1.64
LowerTrib	14388.5*	5-yr	6853.1	6853.05		0.03	0.01	46.77	0.16	38.8	0.04	1.83
LowerTrib	14388.5*	10-yr	6853.38	6853.32		0.03	0.01	62.78	2.18	61.21	0.61	2.02
LowerTrib	14388.5*	25-yr	6854.15	6854.06		0.03	0.01	102.78	18.93	142.66	8.4	2.59
LowerTrib	14388.5*	50-yr	6854.67	6854.57		0.03	0	120.83	42.53	205.51	21.95	2.85
LowerTrib	14388.5*	100-yr	6855.12	6855.02		0.03	0.01	124.05	69.37	259.03	41.6	2.97
LowerTrib	14383.59	2-yr	6852.66	6852.65	6852.12			40.38	0.4	14.56	0.04	0.8
LowerTrib	14383.59	5-yr	6853.05	6853.03	6852.38			51.85	2.53	35.87	0.6	1.26
LowerTrib	14383.59	10-yr	6853.34	6853.3	6852.54			58.99	5.66	56.57	1.77	1.58
LowerTrib	14383.59	25-yr	6854.11	6854.04	6853.03			76.51	24.38	135.88	9.74	2.44
LowerTrib	14383.59	50-yr	6854.64	6854.53	6853.39			78.04	45.08	201.75	23.18	2.93
LowerTrib	14383.59	100-yr	6855.08	6854.96	6853.66			79.22	66.74	265.07	38.19	3.3
LowerTrib	14364.16BR U	2-yr	6852.61	6852.59	6852.15			32.97	0.41	14.56	0.03	1.07
LowerTrib	14364.16BR U	5-yr	6852.99	6852.95	6852.45			40.23	2.89	35.53	0.58	1.65
LowerTrib	14364.16BR U	10-yr	6853.26	6853.21	6852.63			47.14	6.49	55.94	1.57	2.06
LowerTrib	14364.16BR U	25-yr	6854.02	6853.89	6853.13			57.19	28.04	132.52	9.45	3.14
LowerTrib	14364.16BR U	50-yr	6854.53	6854.36	6853.54			57.19	50.79	197.76	21.45	3.76
LowerTrib	14364.16BR U	100-yr	6854.98	6854.77	6853.84			57.19	74.51	260.6	34.89	4.24
LowerTrib	14364.16BR D	2-yr	6852.57	6852.55	6852.2			27.26	0.12	14.88		1.16
LowerTrib	14364.16BR D	5-yr	6852.94	6852.89	6852.46			35.38	0.93	38.07		1.73
LowerTrib	14364.16BR D	10-yr	6853.2	6853.14	6852.64			39.8	2.3	61.7		2.09
LowerTrib	14364.16BR D	25-yr	6853.96	6853.82	6853.16			48.79	9.76	159.84	0.4	3.06
LowerTrib	14364.16BR D	50-yr	6854.49	6854.3	6853.51			53.97	19.39	247.43	3.18	3.62
LowerTrib	14364.16BR D	100-yr	6854.94	6854.71	6853.79			55.64	30.66	331.3	8.04	4.03
LowerTrib	14346.1	2-yr	6852.46	6852.44	6852.17	0.6	0	31.04	0.05	14.95		1.26
LowerTrib	14346.1	5-yr	6852.8	6852.75	6852.41	0.6	0.01	39.82	0.91	38.09		1.77
LowerTrib	14346.1	10-yr	6853.05	6852.98	6852.57	0.6	0.01	44.51	2.52	61.48		2.1
LowerTrib	14346.1	25-yr	6853.8	6853.68	6853.05	0.54	0.02	56.92	11.46	158.42	0.12	2.79
LowerTrib	14346.1	50-yr	6854.33	6854.18	6853.36	0.46	0.02	64.13	20.47	247.83	1.7	3.21
LowerTrib	14346.1	100-yr	6854.78	6854.6	6853.6	0.41	0.02	68.54	30.95	334.26	4.79	3.53
LowerTrib	14306.18	2-yr	6851.86	6851.82		1	0	25.99		15		1.59
LowerTrib	14306.18	5-yr	6852.19	6852.13		0.98	0	32.27		38.96	0.04	2.08
LowerTrib	14306.18	10-yr	6852.44	6852.35		0.96	0	33.23		63.81	0.19	2.49
LowerTrib	14306.18	25-yr	6853.24	6853.05		0.83	0	41.52	0.19	167.73	2.08	3.49
LowerTrib	14306.18	50-yr	6853.84	6853.61		0.73	0	58.06	4.46	260.13	5.41	3.93
LowerTrib	14306.18	100-yr	6854.35	6854.11		0.62	0.01	99.74	20.02	341.01	8.96	4.13

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Lateral Structure - Flow Split at E. Blaney Road

Plan: Existing FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 100-yr			
E.G. US. (ft)	6703.59	Weir Sta US (ft)	7
W.S. US. (ft)	6703.43	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.77	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.74	Wr Top Wdth (ft)	474.79
Q US (cfs)	620	Weir Max Depth (ft)	0.6
Q Leaving Total (cfs)	315.5	Weir Avg Depth (ft)	0.4
Q DS (cfs)	308.11	Weir Flow Area (sq ft)	191.56
Perc Q Leaving	50.31	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	315.5	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Existing FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 50-yr			
E.G. US. (ft)	6703.45	Weir Sta US (ft)	7
W.S. US. (ft)	6703.29	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.69	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.66	Wr Top Wdth (ft)	457.22
Q US (cfs)	470	Weir Max Depth (ft)	0.51
Q Leaving Total (cfs)	201.3	Weir Avg Depth (ft)	0.31
Q DS (cfs)	266.24	Weir Flow Area (sq ft)	139.66
Perc Q Leaving	43.35	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	201.3	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Existing FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 25-yr			
E.G. US. (ft)	6703.29	Weir Sta US (ft)	7
W.S. US. (ft)	6703.09	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.6	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.58	Wr Top Wdth (ft)	412.61
Q US (cfs)	320	Weir Max Depth (ft)	0.43

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Lateral Structure - Flow Split at E. Blaney Road

Q Leaving Total (cfs)	91.67	Weir Avg Depth (ft)	0.18
Q DS (cfs)	228.71	Weir Flow Area (sq ft)	72.83
Perc Q Leaving	28.53	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	91.67	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Existing FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 10-yr			
E.G. US. (ft)	6703.02	Weir Sta US (ft)	337.1
W.S. US. (ft)	6702.85	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.36	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.33	Wr Top Wdth (ft)	106.53
Q US (cfs)	150	Weir Max Depth (ft)	0.21
Q Leaving Total (cfs)	14.37	Weir Avg Depth (ft)	0.13
Q DS (cfs)	135.77	Weir Flow Area (sq ft)	14.2
Perc Q Leaving	9.48	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	14.37	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Existing FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 5-yr			
E.G. US. (ft)	6702.85	Weir Sta US (ft)	337.1
W.S. US. (ft)	6702.66	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.2	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.17	Wr Top Wdth (ft)	55.27
Q US (cfs)	96	Weir Max Depth (ft)	0.08
Q Leaving Total (cfs)	2.06	Weir Avg Depth (ft)	0.06
Q DS (cfs)	93.97	Weir Flow Area (sq ft)	3.19
Perc Q Leaving	2.12	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	2.06	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	

Falcon DBPS
East Tributary Existing Conditions HEC-RAS Outputs
Lateral Structure - Flow Split at E. Blaney Road

		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Existing FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 2-yr			
E.G. US. (ft)	6702.35	Weir Sta US (ft)	
W.S. US. (ft)	6702.16	Weir Sta DS (ft)	
E.G. DS (ft)	6692.85	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6692.83	Wr Top Width (ft)	
Q US (cfs)	32	Weir Max Depth (ft)	
Q Leaving Total (cfs)	0	Weir Avg Depth (ft)	
Q DS (cfs)	32	Weir Flow Area (sq ft)	
Perc Q Leaving	0	Weir Coef (ft ^{1/2})	0
Q Weir (cfs)	0	Weir Submerg	
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	32631.79	2-yr		38		7161.89	7162.73	7162.73	7162.97	0.044781	3.89	9.78	20.05	0.98	1.26	1.36
LowerTrib	32631.79	5-yr		67		7161.89	7162.97	7162.97	7163.28	0.04302	4.46	15.02	24.3	1	1.16	1.65
LowerTrib	32631.79	10-yr		90		7161.89	7163.12	7163.12	7163.47	0.041546	4.75	18.94	27.13	1	1.09	1.8
LowerTrib	32631.79	25-yr	0	139.94	0.06	7161.89	7163.38	7163.38	7163.81	0.038628	5.27	26.69	34.53	1.06	1.11	1.86
LowerTrib	32631.79	50-yr	0.06	169.1	0.84	7161.89	7163.52	7163.52	7163.98	0.034186	5.48	32.02	65.2	1.1	1.13	1.63
LowerTrib	32631.79	100-yr	0.3	196.59	3.11	7161.89	7163.67	7163.67	7164.14	0.029145	5.55	38.8	104.4	1.1	1.06	1.42
LowerTrib	32576.48	2-yr		38		7157.2	7158.3		7158.38	0.013029	2.37	16.04	27.37	0.55	0.74	0.47
LowerTrib	32576.48	5-yr	0.01	66.94	0.05	7157.2	7158.57		7158.69	0.011493	2.82	23.91	29.91	0.55	0.65	0.57
LowerTrib	32576.48	10-yr	0.07	89.66	0.26	7157.2	7158.76		7158.9	0.01053	3.08	29.63	31.37	0.56	0.66	0.62
LowerTrib	32576.48	25-yr	0.42	138.48	1.1	7157.2	7159.04		7159.25	0.011236	3.74	38.68	33.56	0.61	0.61	0.8
LowerTrib	32576.48	50-yr	0.72	167.53	1.75	7157.2	7159.15		7159.42	0.012363	4.15	42.63	34.47	0.65	0.49	0.95
LowerTrib	32576.48	100-yr	1.16	196.17	2.67	7157.2	7159.29		7159.59	0.012482	4.44	47.4	35.54	0.67	0.48	1.03
LowerTrib	32537.9*	2-yr		38		7156.12	7157.42	7157.31	7157.64	0.029461	3.79	10.03	15.16	0.82	1.4	1.18
LowerTrib	32537.9*	5-yr		67		7156.12	7157.8	7157.63	7158.04	0.026262	3.95	16.94	22.23	0.8	1.28	1.22
LowerTrib	32537.9*	10-yr		90		7156.12	7157.94	7157.83	7158.24	0.030321	4.4	20.45	25.5	0.87	1.12	1.49
LowerTrib	32537.9*	25-yr		140		7156.12	7158.33		7158.64	0.022914	4.43	31.59	31.69	0.78	0.47	1.4
LowerTrib	32537.9*	50-yr	0.01	169.88	0.11	7156.12	7158.69		7158.92	0.012715	3.91	43.71	36.16	0.63	0.31	0.94
LowerTrib	32537.9*	100-yr	0.1	199.49	0.42	7156.12	7158.85		7159.11	0.011769	4.07	49.76	37.98	0.63	0.31	0.94
LowerTrib	32499.3*	2-yr		38		7155.05	7155.87	7155.87	7156.25	0.0446	4.96	7.67	10.27	1.01	0.53	1.95
LowerTrib	32499.3*	5-yr		67		7155.05	7156.22	7156.22	7156.75	0.041372	5.86	11.43	11.03	1.01	0.41	2.47
LowerTrib	32499.3*	10-yr		90		7155.05	7156.66		7157.12	0.027082	5.45	16.52	12.8	0.85	0.35	1.99
LowerTrib	32499.3*	25-yr		140		7155.05	7158.02		7158.17	0.006363	3.03	46.22	30.52	0.43	0.12	0.57
LowerTrib	32499.3*	50-yr		170		7155.05	7158.5		7158.61	0.004511	2.73	62.18	37.24	0.37	0.1	0.45
LowerTrib	32499.3*	100-yr		199.98	0.02	7155.05	7158.66		7158.79	0.004854	2.93	68.46	40.8	0.4	0.11	0.49
LowerTrib	32460.7*	2-yr		38		7153.98	7155.22		7155.3	0.005148	2.23	17.04	14.71	0.37	0.06	0.34
LowerTrib	32460.7*	5-yr		67		7153.98	7156.09		7156.16	0.002783	2.21	30.36	16.09	0.28	0.05	0.29
LowerTrib	32460.7*	10-yr		90		7153.98	7156.7		7156.77	0.002572	2.15	41.77	22.13	0.28	0.05	0.27
LowerTrib	32460.7*	25-yr		140		7153.98	7157.99		7158.04	0.001327	1.78	78.73	34.8	0.21	0.03	0.17
LowerTrib	32460.7*	50-yr		170		7153.98	7158.47		7158.51	0.00117	1.77	96.32	39.41	0.2	0.03	0.17
LowerTrib	32460.7*	100-yr		200		7153.98	7158.62		7158.68	0.001377	1.95	102.53	40.85	0.22	0.04	0.2
LowerTrib	32422.2	2-yr		38		7152.9	7155.23	7153.44	7155.24	0.000372	0.88	43.09	19.97	0.11		0.04
LowerTrib	32422.2	5-yr		67		7152.9	7156.09	7153.69	7156.11	0.000459	1.1	61.01	23.57	0.12		0.06
LowerTrib	32422.2	10-yr		90		7152.9	7156.7	7153.85	7156.72	0.000442	1.18	76.53	29.59	0.12		0.07
LowerTrib	32422.2	25-yr		140		7152.9	7157.99	7154.17	7158.01	0.000317	1.27	110.21	39.73	0.11		0.07
LowerTrib	32422.2	50-yr		169.27	0.73	7152.9	7158.46	7154.3	7158.48	0.000351	1.26	143.18	114.78	0.19		0.03
LowerTrib	32422.2	100-yr		196.82	3.18	7152.9	7158.61	7154.5	7158.64	0.000421	1.4	162.72	145.26	0.23		0.03

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	32376.64		Culvert													
LowerTrib	32335.71	2-yr		38		7152.3	7153.01	7152.89	7153.21	0.025164	3.56	10.69	15.75	0.76	1.29	1.03
LowerTrib	32335.71	5-yr		67		7152.3	7153.29	7153.16	7153.59	0.026641	4.45	15.05	16.32	0.82	1.24	1.46
LowerTrib	32335.71	10-yr		90		7152.3	7153.48	7153.34	7153.86	0.026238	4.92	18.29	16.74	0.83	1.23	1.69
LowerTrib	32335.71	25-yr		140		7152.3	7153.86	7153.69	7154.36	0.024817	5.64	24.84	17.55	0.83	1.21	2.05
LowerTrib	32335.71	50-yr		170		7152.3	7154.07	7153.89	7154.62	0.025277	5.95	28.56	18.83	0.85	1.23	2.23
LowerTrib	32335.71	100-yr		200		7152.3	7154.27	7154.08	7154.86	0.025414	6.14	32.56	20.59	0.86	1.25	2.34
LowerTrib	32288.3*	2-yr		38		7150.91	7151.68		7151.92	0.02914	3.92	9.68	13.74	0.82	1.23	1.24
LowerTrib	32288.3*	5-yr		67		7150.91	7152.03		7152.35	0.025625	4.58	14.64	14.8	0.81	1.21	1.51
LowerTrib	32288.3*	10-yr		90		7150.91	7152.24		7152.64	0.025322	5.03	17.89	15.46	0.82	1.24	1.74
LowerTrib	32288.3*	25-yr		140		7150.91	7152.66	7152.5	7153.14	0.026208	5.56	25.16	19.26	0.86	1.31	2.03
LowerTrib	32288.3*	50-yr		170		7150.91	7152.86	7152.7	7153.39	0.026322	5.84	29.1	20.78	0.87	1.32	2.19
LowerTrib	32288.3*	100-yr		200		7150.91	7153.03	7152.89	7153.61	0.02721	6.09	32.85	22.66	0.89	1.36	2.35
LowerTrib	32241.*	2-yr		38		7149.53	7150.48		7150.7	0.02287	3.76	10.12	12.79	0.74	1.31	1.09
LowerTrib	32241.*	5-yr		67		7149.53	7150.83		7151.14	0.025083	4.41	15.2	16.2	0.8	1.36	1.42
LowerTrib	32241.*	10-yr		90		7149.53	7151.04		7151.4	0.026331	4.81	18.7	18.15	0.84	1.39	1.64
LowerTrib	32241.*	25-yr		140		7149.53	7151.39	7151.28	7151.84	0.028455	5.39	25.95	22.58	0.89	1.44	1.98
LowerTrib	32241.*	50-yr		170		7149.53	7151.55	7151.45	7152.06	0.029221	5.72	29.73	24.19	0.91	1.47	2.18
LowerTrib	32241.*	100-yr		200		7149.53	7151.69	7151.61	7152.25	0.029941	6.01	33.3	25.63	0.93	1.49	2.36
LowerTrib	32193.6*	2-yr		38		7148.14	7149.14	7149.07	7149.39	0.033647	4.04	9.4	14.45	0.88	1.38	1.34
LowerTrib	32193.6*	5-yr		67		7148.14	7149.47	7149.4	7149.78	0.033222	4.46	15.04	19.81	0.9	1.47	1.55
LowerTrib	32193.6*	10-yr		90		7148.14	7149.65	7149.59	7150.01	0.032931	4.77	18.87	22.33	0.91	1.51	1.71
LowerTrib	32193.6*	25-yr		140		7148.14	7149.97	7149.9	7150.4	0.032087	5.25	26.67	26.81	0.93	1.58	1.96
LowerTrib	32193.6*	50-yr		170		7148.14	7150.13	7150.06	7150.59	0.031849	5.47	31.05	29.17	0.94	1.61	2.09
LowerTrib	32193.6*	100-yr		199.99	0.01	7148.14	7150.26	7150.2	7150.77	0.031915	5.73	34.95	31.14	0.95	1.62	2.2
LowerTrib	32146.2*	2-yr		38		7146.76	7147.86	7147.72	7148.01	0.023579	3.09	12.29	21.87	0.73	1.62	0.82
LowerTrib	32146.2*	5-yr		67		7146.76	7148.09	7147.97	7148.31	0.027533	3.75	17.87	26.77	0.81	1.67	1.14
LowerTrib	32146.2*	10-yr		90	0	7146.76	7148.23	7148.13	7148.5	0.029129	4.12	21.86	29.82	0.85	1.69	1.32
LowerTrib	32146.2*	25-yr	0	139.9	0.09	7146.76	7148.44	7148.39	7148.82	0.033842	4.98	28.24	33.38	0.95	1.71	1.77
LowerTrib	32146.2*	50-yr	0.02	169.75	0.24	7146.76	7148.52	7148.51	7148.99	0.036196	5.49	31.21	34.41	1.01	1.7	2.04
LowerTrib	32146.2*	100-yr	0.11	199.4	0.48	7146.76	7148.62	7148.62	7149.15	0.036297	5.86	34.6	35.72	1.05	1.69	2.18
LowerTrib	32098.94	2-yr		38		7145.37	7146.18	7146.18	7146.39	0.052881	3.68	10.32	26.05	1.03	7.99	1.31
LowerTrib	32098.94	5-yr		66.97	0.03	7145.37	7146.38	7146.38	7146.64	0.046177	4.11	16.35	32.18	1.02	1.81	1.46
LowerTrib	32098.94	10-yr	0.01	89.85	0.13	7145.37	7146.5	7146.5	7146.81	0.043722	4.51	20.1	34.09	1.03	0.29	1.6
LowerTrib	32098.94	25-yr	0.42	138.89	0.69	7145.37	7146.71	7146.71	7147.12	0.038041	5.15	27.9	37.08	1.04	0.5	1.78
LowerTrib	32098.94	50-yr	1	167.76	1.23	7145.37	7146.83	7146.83	7147.29	0.035522	5.44	32.45	38.6	1.04	0.63	1.86

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	32098.94	100-yr	1.8	196.33	1.87	7145.37	7146.94	7146.94	7147.44	0.034723	5.75	36.44	39.49	1.05	0.77	1.99
LowerTrib	31698.94	2-yr	0.68	36.61	0.71	7133.79	7134.35		7134.39	0.010306	1.72	24.05	69.4	0.51	0.68	0.22
LowerTrib	31698.94	5-yr	4.41	56.74	5.85	7133.79	7134.91		7134.93	0.001518	1.15	74.06	107.26	0.23	0.03	0.07
LowerTrib	31698.94	10-yr	11.51	60.61	17.88	7133.79	7136.03		7136.04	0.00014	0.58	227.43	157.4	0.07	0	0.01
LowerTrib	31698.94	25-yr	18.38	92.81	28.82	7133.79	7136.14		7136.14	0.00028	0.85	243.73	160.56	0.1	0.01	0.03
LowerTrib	31698.94	50-yr	22.57	111.89	35.54	7133.79	7136.18		7136.2	0.000379	1	251.53	162.05	0.12	0.01	0.04
LowerTrib	31698.94	100-yr	26.82	130.8	42.38	7133.79	7136.23		7136.24	0.000485	1.14	258.68	163.41	0.14	0.02	0.05
LowerTrib	31657.1*	2-yr	0.03	37.97		7132.84	7133.61		7133.72	0.027875	2.61	14.65	41.46	0.77	0.28	0.61
LowerTrib	31657.1*	5-yr	8.62	46	12.38	7132.84	7134.9		7134.9	0.000272	0.68	147.77	143.24	0.1	0.01	0.02
LowerTrib	31657.1*	10-yr	14.63	49.91	25.46	7132.84	7136.03		7136.03	0.000055	0.43	333.8	184.7	0.05	0	0.01
LowerTrib	31657.1*	25-yr	23	76.55	40.45	7132.84	7136.13		7136.13	0.000115	0.64	352.37	188.12	0.07	0	0.01
LowerTrib	31657.1*	50-yr	28.05	92.4	49.54	7132.84	7136.18		7136.18	0.000159	0.76	361.14	189.99	0.08	0.01	0.02
LowerTrib	31657.1*	100-yr	33.13	108.13	58.74	7132.84	7136.22		7136.23	0.000207	0.88	369.24	191.68	0.09	0.01	0.02
LowerTrib	31615.3*	2-yr	2.95	33.59	1.46	7131.9	7133.41		7133.44	0.002391	1.25	39.84	94.3	0.32	0.03	0.06
LowerTrib	31615.3*	5-yr	11.92	35.21	19.87	7131.9	7134.89		7134.89	0.00008	0.46	245.61	174.25	0.05	0	0.01
LowerTrib	31615.3*	10-yr	20.67	37.45	31.88	7131.9	7136.03		7136.03	0.000023	0.33	547.65	316.02	0.03	0	0
LowerTrib	31615.3*	25-yr	33.57	56.69	49.74	7131.9	7136.13		7136.13	0.000049	0.48	579	319.52	0.04	0	0.01
LowerTrib	31615.3*	50-yr	41.51	67.98	60.51	7131.9	7136.17		7136.18	0.000067	0.57	593.7	320.96	0.05	0	0.01
LowerTrib	31615.3*	100-yr	49.6	79.1	71.3	7131.9	7136.22		7136.22	0.000088	0.65	607.05	322.26	0.06	0	0.01
LowerTrib	31573.5*	2-yr	7.66	22.24	8.1	7130.95	7133.4		7133.4	0.000259	0.6	111.51	152.64	0.1	0.02	0.01
LowerTrib	31573.5*	5-yr	24.32	20.87	21.81	7130.95	7134.89		7134.89	0.000021	0.28	481.08	290.11	0.02	0.01	0
LowerTrib	31573.5*	10-yr	36.19	22.3	31.5	7130.95	7136.03		7136.03	0.000008	0.21	839.57	348.58	0.02	0	0
LowerTrib	31573.5*	25-yr	56.5	34.18	49.32	7130.95	7136.13		7136.13	0.000018	0.32	874.27	354.69	0.02	0	0
LowerTrib	31573.5*	50-yr	68.68	41.21	60.11	7130.95	7136.17		7136.17	0.000025	0.38	890.43	357.15	0.03	0	0
LowerTrib	31573.5*	100-yr	80.88	48.17	70.95	7130.95	7136.22		7136.22	0.000032	0.44	905.47	359.56	0.03	0	0.01
LowerTrib	31531.79	2-yr	0.76	36.25	0.99	7130	7133.37	7131.53	7133.38	0.000484	1.1	36.82	238.53	0.13		0.06
LowerTrib	31531.79	5-yr	1.97	62.22	2.8	7130	7134.87	7131.92	7134.88	0.000264	1.13	63.06	316.09	0.1		0.06
LowerTrib	31531.79	10-yr	42.39	11.43	36.18	7130	7136.03	7132.15	7136.03	0.000004	0.16	1134.93	386.23	0.01		0
LowerTrib	31531.79	25-yr	65.46	17.54	57	7130	7136.13	7132.54	7136.13	0.000008	0.24	1173.05	393.59	0.01		0
LowerTrib	31531.79	50-yr	79.22	21.17	69.62	7130	7136.17	7132.71	7136.17	0.000011	0.29	1190.82	396.8	0.02		0
LowerTrib	31531.79	100-yr	92.92	24.77	82.31	7130	7136.21	7132.88	7136.22	0.000015	0.33	1207.34	399.86	0.02		0
LowerTrib	31486		Culvert													
LowerTrib	31411.01	2-yr		38		7127.76	7128.68	7128.67	7129.01	0.037849	4.63	8.21	21.67	0.96	1.09	1.69
LowerTrib	31411.01	5-yr		67		7127.76	7129	7129	7129.5	0.034381	5.64	11.88	31.78	0.97		2.22
LowerTrib	31411.01	10-yr		90		7127.76	7129.22	7129.22	7129.83	0.033163	6.28	14.34	71.47	0.99	1.42	2.59

Falcon DBPS

East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	31411.01	25-yr		140		7127.76	7129.63	7129.63	7130.47	0.031006	7.34	19.07	96.12	1	1.59	3.22
LowerTrib	31411.01	50-yr		170		7127.76	7129.87	7129.87	7130.81	0.029247	7.8	21.8	108.53	0.99	1.56	3.47
LowerTrib	31411.01	100-yr		200		7127.76	7130.08	7130.08	7131.14	0.028625	8.27	24.19	116.92	1	1.55	3.77
LowerTrib	31375.5*	2-yr		38		7127.02	7127.82		7127.92	0.021121	2.62	14.53	30.78	0.67	0.97	0.62
LowerTrib	31375.5*	5-yr		66.93	0.07	7127.02	7128.05	7127.87	7128.17	0.028485	2.8	24.12	67.07	0.82	1.06	0.64
LowerTrib	31375.5*	10-yr		89.3	0.7	7127.02	7128.12	7128.07	7128.27	0.033937	3.21	28.99	78.24	0.93	1.06	0.78
LowerTrib	31375.5*	25-yr		136.8	3.2	7127.02	7128.21	7128.21	7128.46	0.043307	4.02	37.06	86.33	1.07	0.79	1.16
LowerTrib	31375.5*	50-yr	0	164.09	5.9	7127.02	7128.29	7128.29	7128.56	0.041591	4.24	43.47	92.26	1.07	0.93	1.22
LowerTrib	31375.5*	100-yr	0.09	190.58	9.33	7127.02	7128.36	7128.36	7128.64	0.037957	4.38	50.37	97.33	1.05	0.73	1.23
LowerTrib	31340.1*	2-yr		38		7126.27	7126.88		7126.96	0.035808	2.27	16.72	65.06	0.79	0.86	0.57
LowerTrib	31340.1*	5-yr		67	0	7126.27	7127.01		7127.11	0.030922	2.56	26.24	80.89	0.79	0.84	0.63
LowerTrib	31340.1*	10-yr		89.46	0.54	7126.27	7127.11		7127.21	0.025457	2.65	34.7	93.37	0.77	0.84	0.59
LowerTrib	31340.1*	25-yr	0.76	134.53	4.71	7126.27	7127.37		7127.46	0.011438	2.45	62.64	119.58	0.59	0.87	0.37
LowerTrib	31340.1*	50-yr	1.01	163.09	5.9	7126.27	7127.38		7127.5	0.015985	2.92	63.87	120.52	0.69	0.81	0.53
LowerTrib	31340.1*	100-yr	3.12	186.83	10.05	7126.27	7127.53		7127.64	0.010686	2.73	83.4	132.19	0.59	0.84	0.42
LowerTrib	31304.66	2-yr	0	73.88	0.11	7125.53	7126.03		7126.1	0.020305	2.14	34.94	104.8	0.65	10.96	0.42
LowerTrib	31304.66	5-yr	0.63	128.31	1.06	7125.53	7126.16	7126.05	7126.27	0.020706	2.68	50.76	125.03	0.74	10.84	0.52
LowerTrib	31304.66	10-yr	1.7	166.15	2.15	7125.53	7126.23		7126.38	0.022377	3.04	59.85	135.02	0.8	10.81	0.62
LowerTrib	31304.66	25-yr	4.59	260.62	4.78	7125.53	7126.3	7126.3	7126.57	0.037739	4.26	69.17	139.45	1.05		1.17
LowerTrib	31304.66	50-yr	10.4	309.98	9.61	7125.53	7126.45	7126.38	7126.7	0.026031	4.08	91.13	148.84	0.89	10.72	0.99
LowerTrib	31304.66	100-yr	12.39	366.16	11.44	7125.53	7126.46	7126.46	7126.8	0.035873	4.8	91.56	149.02	1.05		1.38
LowerTrib	30904.66	2-yr		74		7113.75	7114.85	7114.85	7115.13	0.046875	4.23	17.5	32.79	1.02	1.19	1.56
LowerTrib	30904.66	5-yr	2.73	127.27	0	7113.75	7115.18	7115.18	7115.44	0.036894	4.13	34.43	88.07	1.15	1.16	0.9
LowerTrib	30904.66	10-yr	9.02	160.56	0.42	7113.75	7115.29	7115.29	7115.58	0.03316	4.39	45.57	104	1.14	1.16	0.91
LowerTrib	30904.66	25-yr	31.1	235.18	3.72	7113.75	7115.52	7115.52	7115.85	0.029036	4.91	71.96	129.35	1.09	1.48	1.01
LowerTrib	30904.66	50-yr	47.89	275.36	6.75	7113.75	7115.63	7115.63	7115.98	0.027541	5.15	86.92	138.23	1.06	1.32	1.08
LowerTrib	30904.66	100-yr	65	314.95	10.05	7113.75	7115.72	7115.72	7116.1	0.027763	5.45	99.19	143.94	1.05	1.28	1.19
LowerTrib	30742.51	2-yr	0	74		7110.08	7111.1		7111.12	0.002622	1.09	67.9	112.89	0.25	13.16	0.1
LowerTrib	30742.51	5-yr	0.48	129.5	0.01	7110.08	7111.34		7111.37	0.002711	1.36	97.19	132.05	0.28	13.18	0.12
LowerTrib	30742.51	10-yr	1.41	168.41	0.18	7110.08	7111.48		7111.51	0.002792	1.52	115.35	142.42	0.3	13.21	0.14
LowerTrib	30742.51	25-yr	4.1	264.88	1.02	7110.08	7111.64		7111.7	0.004087	2.05	139.6	154.7	0.38	13.39	0.23
LowerTrib	30742.51	50-yr	8.03	319.19	2.78	7110.08	7111.83		7111.9	0.003504	2.11	170.54	167.74	0.36	13.53	0.22
LowerTrib	30742.51	100-yr	12.46	372.49	5.05	7110.08	7111.98		7112.05	0.003323	2.21	196.49	176.67	0.36	13.62	0.23
LowerTrib	28941.08	2-yr		74		7096.8	7097.77	7097.77	7097.94	0.050955	3.36	22.05	101.82	0.99	0.21	1.13
LowerTrib	28941.08	5-yr		130		7096.8	7097.94	7097.94	7098.17	0.047407	3.87	33.62	151.54	1	0.51	1.37
LowerTrib	28941.08	10-yr		170		7096.8	7098.02	7098.02	7098.3	0.050494	4.23	40.2	252.97	1.05	0.79	1.59

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	28941.08	25-yr	99.29	170.66	0.05	7096.8	7098.24	7098.24	7098.33	0.017506	2.92	150	524.2	0.79	1.2	0.31
LowerTrib	28941.08	50-yr	121.35	208.58	0.07	7096.8	7098.24	7098.24	7098.37	0.026151	3.56	150	524.2	0.97	1.79	0.47
LowerTrib	28941.08	100-yr	148.63	241.24	0.12	7096.8	7098.26	7098.26	7098.43	0.03126	3.99	161.7	540.19	1.05	2.38	0.58
LowerTrib	28754.33	2-yr	69.92	4.08		7090.99	7092.08	7092.08	7092.08	0.00024	0.2	315.07	622.3	0.06	0.12	0.01
LowerTrib	28754.33	5-yr	122.84	7.16		7090.99	7092.08	7092.08	7092.08	0.000742	0.36	315.07	622.3	0.1	0.22	0.02
LowerTrib	28754.33	10-yr	160.63	9.37		7090.99	7092.08	7092.08	7092.08	0.001268	0.47	315.07	622.3	0.13	0.28	0.04
LowerTrib	28754.33	25-yr	255.12	14.88		7090.99	7092.08	7092.08	7092.09	0.0032	0.75	315.07	622.3	0.21	0.36	0.1
LowerTrib	28754.33	50-yr	311.82	18.18		7090.99	7092.08	7092.08	7092.09	0.00478	0.91	315.07	622.3	0.26	0.07	0.15
LowerTrib	28754.33	100-yr	368.51	21.49		7090.99	7092.08	7092.08	7092.1	0.006676	1.08	315.07	622.3	0.31	0.09	0.21
LowerTrib	28478.62	2-yr		74		7078.83	7080.6	7079.4	7080.63	0.000982	1.36	54.3	54.69	0.18		0.11
LowerTrib	28478.62	5-yr		130		7078.83	7081.41	7079.66	7081.45	0.000867	1.65	79.03	63.45	0.18		0.14
LowerTrib	28478.62	10-yr		170		7078.83	7081.91	7079.82	7081.96	0.000818	1.8	94.48	68.56	0.18		0.16
LowerTrib	28478.62	25-yr		270		7078.83	7083.13	7080.17	7083.19	0.00068	2.05	131.79	78.42	0.17		0.18
LowerTrib	28478.62	50-yr	5.92	320.89	3.2	7078.83	7085.13	7080.38	7085.14	0.000083	0.82	444.07	121.99	0.07		0.02
LowerTrib	28478.62	100-yr	9.45	376.28	4.27	7078.83	7085.4	7080.56	7085.41	0.000097	0.91	477.37	135.44	0.08		0.02
LowerTrib	28298.89		Culvert													
LowerTrib	28137.71	2-yr		74		7076	7077.14	7076.96	7077.42	0.042725	4.27	17.34	17.54	0.76	1.48	2.56
LowerTrib	28137.71	5-yr		130		7076	7077.63	7077.37	7078.01	0.037483	4.91	26.49	19.54	0.74	1.47	3.05
LowerTrib	28137.71	10-yr		170		7076	7077.92	7077.6	7078.35	0.035601	5.25	32.35	21.17	0.74	1.49	3.34
LowerTrib	28137.71	25-yr		270		7076	7078.38	7078.09	7079.03	0.038371	6.47	41.76	24.76	0.8	1.21	4.65
LowerTrib	28137.71	50-yr		330		7076	7078.76	7078.33	7079.37	0.038453	6.25	52.84	27.57	0.79	1.19	4.41
LowerTrib	28137.71	100-yr		390		7076	7079.14	7078.69	7079.71	0.042772	6.05	64.44	38.53	0.82	1.19	4.32
LowerTrib	28081.78	2-yr	0.09	71.11	2.8	7073.08	7075.76		7075.93	0.017033	3.44	22.68	18.59	0.54	6.23	1.22
LowerTrib	28081.78	5-yr	1.44	120.86	7.7	7073.08	7076.25	7075.67	7076.53	0.01846	4.35	33.2	23.98	0.63	6.31	1.51
LowerTrib	28081.78	10-yr	3.23	153.82	12.95	7073.08	7076.52	7075.92	7076.86	0.019656	4.88	39.87	26.96	0.68	6.31	1.73
LowerTrib	28081.78	25-yr	15.22	214.05	40.74	7073.08	7077.54	7076.54	7077.81	0.010759	4.65	73.72	39.46	0.55	6.85	1.21
LowerTrib	28081.78	50-yr	21.86	253.97	54.18	7073.08	7077.85	7076.84	7078.17	0.011059	5.02	87.2	47	0.58	6.89	1.24
LowerTrib	28081.78	100-yr	24.71	291.56	73.73	7073.08	7078.17	7077.08	7078.52	0.01095	5.29	105.44	67.29	0.66	6.95	1.05
LowerTrib	27748.51	2-yr	6.64	64.17	3.19	7067.88	7069.52		7069.69	0.020624	3.54	23.7	24.59	0.6	10.13	1.23
LowerTrib	27748.51	5-yr	16.16	105.03	8.81	7067.88	7069.98		7070.22	0.019371	4.23	35.85	27.63	0.61	10.09	1.54
LowerTrib	27748.51	10-yr	23.69	132.26	14.05	7067.88	7070.28		7070.55	0.018105	4.54	44.33	29.57	0.6	10.11	1.66
LowerTrib	27748.51	25-yr	36.69	211.99	21.31	7067.88	7070.21	7070.21	7070.96	0.052733	7.56	42.14	29.08	1.02	7.39	4.68
LowerTrib	27748.51	50-yr	48.27	251.8	29.93	7067.88	7070.45	7070.45	7071.28	0.050474	8	49.31	30.66	1.02	7.51	4.97
LowerTrib	27748.51	100-yr	58.92	292.4	38.68	7067.88	7070.62	7070.62	7071.57	0.05267	8.6	54.78	32	1.05	7.88	5.51
LowerTrib	27350.22	2-yr	1.33	64.81	7.86	7057.1	7059.16	7059	7059.56	0.032006	5.45	17.14	19.94	0.98	6.57	1.62

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	27350.22	5-yr	3.02	97.83	29.14	7057.1	7059.6	7059.57	7060.13	0.034345	6.56	26.9	22.97	0.95	6.68	2.36
LowerTrib	27350.22	10-yr	4.31	119.76	45.93	7057.1	7059.81	7059.81	7060.45	0.037776	7.32	31.91	23.87	0.97	6.73	2.96
LowerTrib	27350.22	25-yr	12.18	137.58	120.24	7057.1	7061.42	7060.3	7061.68	0.009113	5.05	76.52	31.55	0.46	7.95	1.28
LowerTrib	27350.22	50-yr	16.08	160.47	153.45	7057.1	7061.76	7060.54	7062.05	0.009469	5.43	87.45	33.05	0.47	8.08	1.45
LowerTrib	27350.22	100-yr	20.38	184.39	185.24	7057.1	7062.07	7060.79	7062.4	0.009928	5.82	98.04	35.38	0.49	8.22	1.59
LowerTrib	26950.22	2-yr		74		7051	7052.92		7052.99	0.009729	2.07	35.77	36.16	0.37	7.38	0.6
LowerTrib	26950.22	5-yr	0	130	0	7051	7053.36		7053.46	0.00954	2.44	53.22	42.33	0.38	7.31	0.74
LowerTrib	26950.22	10-yr	0.11	169.38	0.5	7051	7053.61		7053.72	0.009139	2.68	64.45	50.67	0.42	7.2	0.72
LowerTrib	26950.22	25-yr		270		7051	7053.15	7053.15	7053.72	0.071351	6.08	44.4	39.66	1.01	2	4.95
LowerTrib	26950.22	50-yr	0	330		7051	7053.32	7053.32	7053.96	0.068348	6.42	51.43	41.21	1.01	0.51	5.28
LowerTrib	26950.22	100-yr	0.09	389.67	0.24	7051	7053.48	7053.48	7054.18	0.064308	6.72	58.37	46.34	1.05	0.44	5.02
LowerTrib	26646.28	2-yr		97		7043.72	7045.23	7045.23	7045.61	0.075719	4.94	19.62	24.97	0.98	1.11	3.68
LowerTrib	26646.28	5-yr		180		7043.72	7045.65	7045.65	7046.15	0.070407	5.64	31.89	31.46	0.99	0.63	4.41
LowerTrib	26646.28	10-yr		250		7043.72	7045.91	7045.91	7046.51	0.066876	6.2	40.29	33.12	0.99	0.52	5.02
LowerTrib	26646.28	25-yr	0.42	409.58		7043.72	7048.86	7046.4	7048.96	0.002834	2.49	165.38	51.41	0.24	0.1	0.55
LowerTrib	26646.28	50-yr	13.74	481.77	4.5	7043.72	7051.99	7046.67	7052.03	0.000434	1.5	356.94	75.27	0.12	0.03	0.12
LowerTrib	26646.28	100-yr	21.16	541.33	17.51	7043.72	7053.22	7046.87	7053.25	0.000305	1.41	466.1	97.96	0.11	0.02	0.09
LowerTrib	26550.03	2-yr		97		7038	7042.11	7040.19	7042.16	0.003643	1.88	51.51	27.39	0.24		0.41
LowerTrib	26550.03	5-yr		180		7038	7043.93	7040.97	7043.97	0.001372	1.61	111.52	38.87	0.16		0.25
LowerTrib	26550.03	10-yr		250		7038	7045.34	7041.38	7045.38	0.000757	1.54	162.31	46.47	0.13		0.2
LowerTrib	26550.03	25-yr		410		7038	7048.83	7042.15	7048.86	0.000302	1.42	287.8	67.32	0.09		0.14
LowerTrib	26550.03	50-yr		500		7038	7051.98	7042.45	7052	0.000149	1.25	401.05	119.44	0.07		0.1
LowerTrib	26550.03	100-yr	38.59	507.2	34.2	7038	7053.22	7042.68	7053.23	0.000076	0.9	815.59	164.07	0.07		0.02
LowerTrib	26454.7		Culvert													
LowerTrib	26366.53	2-yr		97		7035	7038.07	7036.32	7038.19	0.0052	2.77	35.06	13.54	0.28	0.95	0.79
LowerTrib	26366.53	5-yr		180		7035	7038.92	7036.98	7039.16	0.008974	4	45	17.01	0.37	1.38	1.57
LowerTrib	26366.53	10-yr		250		7035	7039.45	7037.48	7039.81	0.011941	4.8	52.11	19.51	0.44	1.65	2.22
LowerTrib	26366.53	25-yr		410		7035	7040.22	7038.43	7040.88	0.017157	6.51	62.93	23.09	0.54	2	3.84
LowerTrib	26366.53	50-yr		500		7035	7040.54	7039.04	7041.39	0.020381	7.43	67.32	24.48	0.6	2.18	4.88
LowerTrib	26366.53	100-yr		580		7035	7041.12	7039.51	7041.65	0.018418	5.81	99.82	28.63	0.55	2.14	3.29
LowerTrib	26300.77	2-yr		97		7035.68	7036.86	7036.86	7037.24	0.083736	4.92	19.72	27.2	1.02	3.89	3.75
LowerTrib	26300.77	5-yr		180		7035.68	7037.25	7037.25	7037.78	0.073604	5.86	30.7	29.42	1.01	3.73	4.72
LowerTrib	26300.77	10-yr		250		7035.68	7037.53	7037.53	7038.16	0.0684	6.4	39.06	31.01	1	3.61	5.29
LowerTrib	26300.77	25-yr		410		7035.68	7038.04	7038.04	7038.88	0.063338	7.33	55.91	34.05	1.01	3.48	6.36
LowerTrib	26300.77	50-yr		500		7035.68	7038.3	7038.3	7039.22	0.061192	7.72	64.79	35.55	1.01	3.44	6.81
LowerTrib	26300.77	100-yr		580		7035.68	7038.52	7038.52	7039.5	0.059513	7.98	72.7	37.16	1.01	3.43	7.1

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	26150.22	2-yr	96.82	0.18		7028.25	7028.51		7028.54	0.004845	0.37	70.19	66.26	0.24	2.59	0.32
LowerTrib	26150.22	5-yr	175.68	4.32		7028.25	7029.05		7029.09	0.004664	0.73	110.67	85.12	0.26	2.6	0.38
LowerTrib	26150.22	10-yr	237.26	12.74		7028.25	7029.39		7029.44	0.004512	1.04	141.46	91.45	0.26	2.61	0.43
LowerTrib	26150.22	25-yr	371.24	38.76		7028.25	7030.04		7030.1	0.004289	1.48	203.98	104.13	0.26	2.62	0.52
LowerTrib	26150.22	50-yr	444.18	55.82		7028.25	7030.34		7030.41	0.004221	1.67	236.4	111.77	0.26	2.62	0.55
LowerTrib	26150.22	100-yr	508.6	71.4		7028.25	7030.57		7030.65	0.0042	1.81	263.64	117.77	0.26	2.63	0.58
LowerTrib	25750.22	2-yr		97		7024.14	7025.88		7025.95	0.009045	2.11	45.9	42.67	0.36	1.52	0.6
LowerTrib	25750.22	5-yr		180		7024.14	7026.38		7026.49	0.009641	2.63	68.4	47.93	0.39	1.56	0.85
LowerTrib	25750.22	10-yr		250		7024.14	7026.7		7026.84	0.010175	2.97	84.27	51.33	0.41	1.56	1.04
LowerTrib	25750.22	25-yr		410		7024.14	7027.29		7027.48	0.011048	3.53	116.26	58.06	0.44	1.56	1.37
LowerTrib	25750.22	50-yr		500		7024.14	7027.57		7027.79	0.011354	3.76	133.06	61.65	0.45	1.56	1.52
LowerTrib	25750.22	100-yr		579.96	0.04	7024.14	7027.78		7028.02	0.01147	3.96	146.45	64.38	0.46	1.54	1.62
LowerTrib	25599.02	2-yr		97		7022.57	7024.36		7024.44	0.011228	2.19	44.26	45.84	0.39	1.09	0.67
LowerTrib	25599.02	5-yr	0.16	179.71	0.13	7022.57	7024.82		7024.93	0.01103	2.69	67.26	53.9	0.42	0.97	0.86
LowerTrib	25599.02	10-yr	0.99	247.98	1.03	7022.57	7025.13		7025.27	0.01041	3.01	84.72	57.88	0.44	0.91	0.95
LowerTrib	25599.02	25-yr	5.65	398.05	6.31	7022.57	7025.73		7025.92	0.009614	3.55	121.31	65.47	0.45	0.84	1.11
LowerTrib	25599.02	50-yr	9.76	479.02	11.22	7022.57	7026.01		7026.23	0.009349	3.79	140.42	68.74	0.46	0.82	1.18
LowerTrib	25599.02	100-yr	14.23	548.92	16.85	7022.57	7026.24		7026.48	0.009125	3.98	156.79	70.65	0.46	0.8	1.26
LowerTrib	25501.42	2-yr	0.48	95.41	1.1	7021.74	7023.25		7023.35	0.011034	2.55	39.59	40.2	0.45	0.4	0.68
LowerTrib	25501.42	5-yr	6.78	165.84	7.38	7021.74	7023.84		7023.97	0.009036	3	67.6	53.75	0.45	0.4	0.71
LowerTrib	25501.42	10-yr	16.31	218.77	14.92	7021.74	7024.21		7024.36	0.008418	3.28	89.01	60.27	0.45	0.4	0.77
LowerTrib	25501.42	25-yr	46.33	327.77	35.9	7021.74	7024.89		7025.07	0.007716	3.75	132.86	69.29	0.44	0.4	0.92
LowerTrib	25501.42	50-yr	65.72	384.7	49.58	7021.74	7025.2		7025.41	0.007494	3.97	155.47	73.22	0.44	0.4	0.99
LowerTrib	25501.42	100-yr	84.05	433.63	62.32	7021.74	7025.46		7025.68	0.007364	4.14	174.57	76.38	0.43	0.41	1.04
LowerTrib	25447.05	2-yr	0.73	96.27		7020.85	7022.88		7022.94	0.005109	2.06	48.28	36.07	0.31	0.24	0.42
LowerTrib	25447.05	5-yr	7.53	172.35	0.11	7020.85	7023.46		7023.56	0.005992	2.69	72.25	46.55	0.37	0.29	0.57
LowerTrib	25447.05	10-yr	17.53	231.72	0.76	7020.85	7023.82		7023.96	0.006398	3.09	90.18	51.65	0.4	0.31	0.69
LowerTrib	25447.05	25-yr	48.2	357.35	4.45	7020.85	7024.47		7024.67	0.007038	3.78	126.75	60.62	0.44	0.36	0.91
LowerTrib	25447.05	50-yr	69.01	423.36	7.63	7020.85	7024.77		7025	0.007272	4.09	145.75	64.74	0.45	0.38	1.01
LowerTrib	25447.05	100-yr	89.14	479.86	10.99	7020.85	7025.02		7025.27	0.007441	4.33	161.96	68.07	0.46	0.39	1.09
LowerTrib	25383.89	2-yr	0.65	95.29	1.07	7020.62	7022.67		7022.71	0.002666	1.48	67.93	50.66	0.22	0.33	0.22
LowerTrib	25383.89	5-yr	3.98	171.66	4.37	7020.62	7023.22		7023.28	0.003206	1.98	97.56	57.91	0.26	0.36	0.34
LowerTrib	25383.89	10-yr	8.42	233.27	8.31	7020.62	7023.57		7023.65	0.003567	2.31	118.55	62.69	0.29	0.38	0.42
LowerTrib	25383.89	25-yr	22.64	366.82	20.54	7020.62	7024.19		7024.31	0.004169	2.9	160.24	71.25	0.33	0.41	0.58
LowerTrib	25383.89	50-yr	32.66	438.31	29.03	7020.62	7024.48		7024.62	0.004398	3.16	181.78	75.29	0.34	0.42	0.66
LowerTrib	25383.89	100-yr	42.56	500.06	37.38	7020.62	7024.72		7024.88	0.004565	3.37	200.07	78.56	0.35	0.42	0.72

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	25320.79	2-yr		97		7020.82	7022.29		7022.38	0.013384	2.35	41.29	43.91	0.43	0.55	0.78
LowerTrib	25320.79	5-yr		180		7020.82	7022.8		7022.92	0.01194	2.76	65.26	50.02	0.43	0.54	0.97
LowerTrib	25320.79	10-yr	0	249.98	0.01	7020.82	7023.12		7023.27	0.011702	3.06	81.71	54.02	0.44	0.54	1.1
LowerTrib	25320.79	25-yr	1.7	406.85	1.46	7020.82	7023.7		7023.9	0.010739	3.63	115.7	63.36	0.47	0.52	1.22
LowerTrib	25320.79	50-yr	4.32	492.02	3.67	7020.82	7023.98		7024.21	0.010443	3.88	133.93	68.07	0.48	0.52	1.27
LowerTrib	25320.79	100-yr	7.65	565.95	6.41	7020.82	7024.2		7024.46	0.01025	4.08	149.73	72.21	0.49	0.52	1.32
LowerTrib	25265.56	2-yr		97		7019.8	7021.77		7021.83	0.007481	2	48.56	42.51	0.33	0.7	0.53
LowerTrib	25265.56	5-yr	0.01	179.73	0.25	7019.8	7022.28		7022.38	0.00808	2.49	72.74	51.02	0.37	0.72	0.71
LowerTrib	25265.56	10-yr	0.39	248.52	1.09	7019.8	7022.6		7022.73	0.008073	2.83	89.7	54.41	0.39	0.73	0.82
LowerTrib	25265.56	25-yr	3.72	401.18	5.09	7019.8	7023.2		7023.38	0.008204	3.44	123.89	60.77	0.42	0.74	1.04
LowerTrib	25265.56	50-yr	7.07	484.49	8.45	7019.8	7023.48		7023.69	0.008295	3.73	141.35	63.77	0.44	0.75	1.14
LowerTrib	25265.56	100-yr	10.84	557.16	12	7019.8	7023.7		7023.94	0.008376	3.95	156.1	66.2	0.45	0.76	1.22
LowerTrib	25173.45	2-yr	1.75	93.01	2.24	7019.43	7021.07		7021.13	0.007748	2.05	49.87	50.22	0.36	1.78	0.48
LowerTrib	25173.45	5-yr	5.7	166.46	7.83	7019.43	7021.55		7021.65	0.007659	2.57	75.87	56.86	0.38	1.82	0.63
LowerTrib	25173.45	10-yr	10.13	225.45	14.41	7019.43	7021.88		7022	0.007685	2.91	95.03	61.32	0.4	1.83	0.74
LowerTrib	25173.45	25-yr	22.78	353.26	33.96	7019.43	7022.46		7022.63	0.007876	3.51	133.4	69.49	0.42	1.86	0.94
LowerTrib	25173.45	50-yr	31.13	421.77	47.1	7019.43	7022.74		7022.93	0.007977	3.78	153.03	73.34	0.43	1.87	1.03
LowerTrib	25173.45	100-yr	39.17	481	59.83	7019.43	7022.96		7023.18	0.008053	4	169.71	76.46	0.44	1.89	1.11
LowerTrib	24950.22	2-yr	0	97		7017.78	7019.29		7019.35	0.008221	1.97	49.32	47.56	0.34	7.01	0.53
LowerTrib	24950.22	5-yr	0.84	179.1	0.06	7017.78	7019.74		7019.84	0.008652	2.53	72.16	55.34	0.39	6.94	0.7
LowerTrib	24950.22	10-yr	3.26	246.22	0.51	7017.78	7020.04		7020.17	0.008789	2.89	89.61	61.84	0.42	6.94	0.79
LowerTrib	24950.22	25-yr	14.51	390.08	5.41	7017.78	7020.6		7020.78	0.008786	3.47	128.25	75.46	0.46	6.9	0.93
LowerTrib	24950.22	50-yr	23.16	466.06	10.78	7017.78	7020.86		7021.06	0.008828	3.74	148.5	80.95	0.47	6.89	1
LowerTrib	24950.22	100-yr	31.81	531.33	16.85	7017.78	7021.06		7021.28	0.008936	3.95	165.11	84.25	0.48	6.86	1.09
LowerTrib	24550.22	2-yr	0.69	90.73	5.58	7010.39	7011.95	7011.95	7012.34	0.058969	5.18	20.8	29.06	1.05	4.9	2.61
LowerTrib	24550.22	5-yr	3.96	152.54	23.5	7010.39	7012.39	7012.39	7012.89	0.049995	6.06	35.52	37.55	1.03	4.75	2.93
LowerTrib	24550.22	10-yr	7.87	198.45	43.68	7010.39	7012.66	7012.66	7013.24	0.047926	6.65	46.2	41.24	1.02	4.74	3.32
LowerTrib	24550.22	25-yr	19.52	294.81	95.67	7010.39	7013.14	7013.14	7013.87	0.0468	7.74	67.5	47.74	1.02	4.68	4.09
LowerTrib	24550.22	50-yr	27.48	345.05	127.47	7010.39	7013.37	7013.37	7014.17	0.046074	8.2	78.86	51.05	1.02	4.71	4.4
LowerTrib	24550.22	100-yr	35.5	386.58	157.92	7010.39	7013.57	7013.57	7014.42	0.044178	8.48	89.63	54.01	1.01	4.71	4.54
LowerTrib	24161.18	2-yr	5.07	86.29	5.64	7004.79	7006.5		7006.55	0.005176	1.9	59.6	65.9	0.34	0.25	0.29
LowerTrib	24161.18	5-yr	17.72	143.36	18.92	7004.79	7007		7007.07	0.00519	2.33	94.72	76.78	0.34	0.25	0.4
LowerTrib	24161.18	10-yr	30.25	187.46	32.29	7004.79	7007.32		7007.41	0.005216	2.6	121.29	85.73	0.35	0.25	0.46
LowerTrib	24161.18	25-yr	62.25	276.74	71.02	7004.79	7007.92		7008.03	0.005113	3.02	176.4	98.17	0.35	0.24	0.57
LowerTrib	24161.18	50-yr	81.53	323.8	94.67	7004.79	7008.19		7008.31	0.005158	3.22	203.58	103.52	0.35	0.24	0.63
LowerTrib	24161.18	100-yr	99.1	364.3	116.6	7004.79	7008.4		7008.53	0.005216	3.39	226.23	107.79	0.35	0.24	0.68

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	24122.58	2-yr	1.96	75.72	19.32	7004.34	7006.24		7006.31	0.007972	2.31	50.71	54.34	0.39	0.37	0.46
LowerTrib	24122.58	5-yr	7.05	126.57	46.38	7004.34	7006.72		7006.82	0.00804	2.84	80.22	68.52	0.41	0.38	0.59
LowerTrib	24122.58	10-yr	15.03	164.15	70.81	7004.34	7007.04		7007.16	0.00784	3.13	103.81	76.57	0.41	0.38	0.66
LowerTrib	24122.58	25-yr	38.67	241.81	129.52	7004.34	7007.64		7007.79	0.007497	3.6	154.75	93.99	0.42	0.38	0.77
LowerTrib	24122.58	50-yr	55.97	280.79	163.24	7004.34	7007.91		7008.07	0.00741	3.81	180.92	100.53	0.42	0.38	0.83
LowerTrib	24122.58	100-yr	69.88	315.66	194.46	7004.34	7008.12		7008.29	0.007495	4.01	202.56	107.74	0.42	0.38	0.88
LowerTrib	24087.33	2-yr	0.06	96.39	0.55	7003.85	7005.83		7005.94	0.014021	2.62	37.71	40.37	0.48	1.56	0.81
LowerTrib	24087.33	5-yr	1.24	173.72	5.04	7003.85	7006.26	7005.7	7006.43	0.014775	3.37	56.63	46.98	0.53	1.51	1.1
LowerTrib	24087.33	10-yr	3.34	235.61	11.05	7003.85	7006.56		7006.78	0.014866	3.82	71.41	52.42	0.56	1.47	1.25
LowerTrib	24087.33	25-yr	10.86	370.62	28.51	7003.85	7007.1		7007.4	0.015437	4.63	103.96	73.54	0.66	1.43	1.35
LowerTrib	24087.33	50-yr	17.24	438.05	44.71	7003.85	7007.35		7007.69	0.015417	4.94	124.12	88.54	0.69	1.4	1.34
LowerTrib	24087.33	100-yr	26.14	489.67	64.19	7003.85	7007.56	7006.79	7007.91	0.014754	5.1	144.47	99.46	0.69	1.36	1.33
LowerTrib	24032.8	2-yr		97	0	7002.45	7003.98	7003.98	7004.37	0.083138	4.98	19.49	26.55	1.02	0.52	3.78
LowerTrib	24032.8	5-yr	1.51	177.79	0.7	7002.45	7004.39	7004.39	7004.92	0.064739	5.88	31.51	32.3	1.04	0.17	3.91
LowerTrib	24032.8	10-yr	5.37	242.31	2.32	7002.45	7004.67	7004.67	7005.3	0.05785	6.44	41.13	36.5	1.05	0.2	4.04
LowerTrib	24032.8	25-yr	20.93	377.23	11.84	7002.45	7005.2	7005.2	7005.98	0.048738	7.3	62.95	45.46	1.06	0.26	4.18
LowerTrib	24032.8	50-yr	32.24	447.12	20.64	7002.45	7005.46	7005.46	7006.29	0.045815	7.67	74.89	49.67	1.05	0.28	4.28
LowerTrib	24032.8	100-yr	42.29	508.24	29.47	7002.45	7005.64	7005.64	7006.54	0.045618	8.07	84.09	52.92	1.07	0.31	4.49
LowerTrib	23750.22	2-yr	3.21	86.93	6.86	6994.85	6997.79		6997.79	0.000413	0.77	147.3	112.6	0.11	0	0.03
LowerTrib	23750.22	5-yr	40.36	64.68	74.95	6994.85	7002.28		7002.28	0.000007	0.2	1513.46	461.97	0.01	0	0
LowerTrib	23750.22	10-yr	58.42	87.14	104.45	6994.85	7002.45		7002.45	0.000011	0.26	1590.89	465.12	0.02	0	0
LowerTrib	23750.22	25-yr	101.47	135.23	173.3	6994.85	7002.75		7002.75	0.000023	0.39	1728.23	466.21	0.03	0	0.01
LowerTrib	23750.22	50-yr	126.3	161.5	212.2	6994.85	7002.87		7002.87	0.000031	0.45	1784.25	466.65	0.03	0	0.01
LowerTrib	23750.22	100-yr	149.14	183.86	247	6994.85	7002.98		7002.98	0.000039	0.51	1836.45	467.07	0.03	0	0.01
LowerTrib	23617.72	2-yr	42.99	47.2	6.81	6990.4	6997.79		6997.79	0.000003	0.13	941.39	199.89	0.01	0	0
LowerTrib	23617.72	5-yr	80.07	66.56	33.37	6990.4	7002.28		7002.28	0.000001	0.12	2336.61	362.27	0.01	0	0
LowerTrib	23617.72	10-yr	111.43	91.25	47.31	6990.4	7002.45		7002.45	0.000002	0.16	2397.24	363.83	0.01	0	0
LowerTrib	23617.72	25-yr	183.25	146.37	80.38	6990.4	7002.75		7002.75	0.000005	0.24	2504.53	366.14	0.01	0	0
LowerTrib	23617.72	50-yr	223.7	176.95	99.35	6990.4	7002.86		7002.87	0.000007	0.29	2548.39	367.08	0.01	0	0
LowerTrib	23617.72	100-yr	259.7	203.64	116.66	6990.4	7002.98		7002.98	0.000009	0.33	2589.48	367.96	0.02	0	0
LowerTrib	23513.91	2-yr		97		6982.68	6997.79	6983.65	6997.79	0.000003	0.18	527.06	103.51	0.01		0
LowerTrib	23513.91	5-yr	21.43	142.41	16.16	6982.68	7002.28	6983.98	7002.28	0.000002	0.16	1426.24	165.1	0.01		0
LowerTrib	23513.91	10-yr	30.21	196.69	23.1	6982.68	7002.45	6984.22	7002.45	0.000003	0.22	1454.19	170.63	0.01		0
LowerTrib	23513.91	25-yr	50.97	319.33	39.7	6982.68	7002.74	6984.69	7002.74	0.000008	0.35	1505.68	180.9	0.02		0
LowerTrib	23513.91	50-yr	56.29	393.68	50.03	6982.68	7002.86	6984.88	7002.86	0.000012	0.43	1527.35	183.5	0.02		0.01
LowerTrib	23513.91	100-yr	66.74	454.36	58.9	6982.68	7002.97	6985.11	7002.98	0.000015	0.5	1547.74	184.57	0.03		0.01

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	23413.07		Culvert													
LowerTrib	23316.27	2-yr		97		6981.75	6982.53	6982.53	6982.93	0.084539	5.04	19.24	24.85	1.01	0.65	3.9
LowerTrib	23316.27	5-yr		180		6981.75	6982.95	6982.95	6983.52	0.072479	6.08	29.6	25.11	0.99	0.6	4.97
LowerTrib	23316.27	10-yr		250		6981.75	6983.44	6983.23	6983.99	0.045267	5.93	42.16	25.41	0.81	0.52	4.25
LowerTrib	23316.27	25-yr		410		6981.75	6984.1	6983.81	6984.85	0.042321	6.94	59.05	25.82	0.81	0.65	5.3
LowerTrib	23316.27	50-yr		500		6981.75	6984.6	6984.09	6985.35	0.034338	6.96	71.83	26.13	0.74	0.62	5.05
LowerTrib	23316.27	100-yr		580		6981.75	6985.4	6984.32	6986.01	0.020914	6.22	93.17	26.62	0.59	0.47	3.77
LowerTrib	23184.63	2-yr	15.97	88.01	0.02	6980.27	6982.1		6982.11	0.001156	0.87	158.4	152.9	0.14	0.62	0.07
LowerTrib	23184.63	5-yr	43.03	160.2	0.76	6980.27	6982.89		6982.9	0.000806	0.99	281.89	160.37	0.12	0.5	0.09
LowerTrib	23184.63	10-yr	65.79	216.09	2.12	6980.27	6983.46		6983.47	0.000658	1.05	374.08	161.55	0.11	0.44	0.09
LowerTrib	23184.63	25-yr	117.11	350.85	5.04	6980.27	6984.18		6984.2	0.000785	1.34	490.72	163.03	0.12	0.64	0.15
LowerTrib	23184.63	50-yr	148.94	426.93	7.13	6980.27	6984.7		6984.72	0.000723	1.42	575.69	164.09	0.12	0.62	0.16
LowerTrib	23184.63	100-yr	183.23	500.13	9.64	6980.27	6985.51		6985.53	0.000529	1.38	709.78	165.77	0.1	0.43	0.14
LowerTrib	22950.22	2-yr		104		6977.72	6981.35		6981.48	0.010212	2.92	35.63	19.92	0.38	8.66	1.01
LowerTrib	22950.22	5-yr		204		6977.72	6982.16	6981.02	6982.4	0.012269	3.9	52.28	21.07	0.44	9.3	1.64
LowerTrib	22950.22	10-yr		284		6977.72	6982.74	6981.41	6983.04	0.012604	4.39	64.7	21.89	0.45	9.75	1.97
LowerTrib	22950.22	25-yr		473		6977.72	6982.72	6982.18	6983.56	0.035848	7.37	64.15	21.86	0.76	9.6	5.56
LowerTrib	22950.22	50-yr		583		6977.72	6983.11	6982.57	6984.1	0.037392	8	72.89	22.42	0.78	9.92	6.35
LowerTrib	22950.22	100-yr		693		6977.72	6984.39		6985.1	0.019472	6.74	102.83	24.24	0.58	10.99	4.17
LowerTrib	22550.22	2-yr	0.06	88.39	15.55	6971.79	6972.59	6972.59	6972.83	0.07285	4.26	33.25	114.32	1.03		2.1
LowerTrib	22550.22	5-yr	0.61	138.88	64.5	6971.79	6972.84	6972.84	6973.09	0.059821	4.81	73.57	128.98	0.95	7.87	2.13
LowerTrib	22550.22	10-yr	1.29	182	100.71	6971.79	6972.97	6972.97	6973.29	0.06552	5.51	90.3	130.52	0.96	8.24	2.83
LowerTrib	22550.22	25-yr	7.79	248.41	216.8	6971.79	6973.81	6973.25	6973.96	0.016569	4.13	203.81	139.78	0.46	12.2	1.5
LowerTrib	22550.22	50-yr	11.49	298.31	273.2	6971.79	6974.01	6973.38	6974.19	0.016911	4.47	232.71	145.35	0.48	12.22	1.69
LowerTrib	22550.22	100-yr	10.67	367.37	314.96	6971.79	6973.74	6973.49	6974.11	0.040761	6.32	194.81	139.31	0.73	11.77	3.55
LowerTrib	22150.22	2-yr		103.89	0.11	6958.54	6960.79	6960.79	6961.06	0.082554	4.16	25.1	60.26	0.98		2.85
LowerTrib	22150.22	5-yr	0.5	202.7	0.8	6958.54	6961.39	6961.1	6961.46	0.009577	2.13	97.78	98.13	0.38	8.34	0.59
LowerTrib	22150.22	10-yr	1.26	281.28	1.46	6958.54	6961.61	6961.1	6961.71	0.009837	2.45	119.54	100.85	0.39	8.35	0.72
LowerTrib	22150.22	25-yr	0.77	470.65	1.58	6958.54	6961.29	6961.29	6961.76	0.073117	5.49	87.59	96.83	1.02	0.53	4.07
LowerTrib	22150.22	50-yr	1.59	579.02	2.39	6958.54	6961.43	6961.43	6961.97	0.070366	5.9	101.09	98.55	1.02	0.26	4.44
LowerTrib	22150.22	100-yr	6.22	681.57	5.21	6958.54	6962.04	6961.55	6962.34	0.022159	4.45	163.4	106.12	0.63	0.17	2.1
LowerTrib	21750.22	2-yr	1.49	95.65	6.86	6951.93	6952.56	6952.56	6952.78	0.087347	3.89	31.93	84.17	1.07	1.52	2.07
LowerTrib	21750.22	5-yr	8.23	178.45	17.32	6951.93	6952.82	6952.82	6953.13	0.074832	4.77	55.69	103.11	1.08	0.98	2.52
LowerTrib	21750.22	10-yr	16.66	240.87	26.47	6951.93	6952.99	6952.99	6953.36	0.06978	5.26	73.91	117	1.08	0.3	2.75
LowerTrib	21750.22	25-yr	118.66	278.37	75.97	6951.93	6957.27		6957.28	0.000281	1.07	732.19	168.99	0.07	0.01	0.08

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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	21750.22	50-yr	161.86	321.59	99.56	6951.93	6960.77		6960.77	0.000067	0.74	1357.32	188.54	0.04	0	0.03
LowerTrib	21750.22	100-yr	196.43	375.49	121.08	6951.93	6962.16		6962.17	0.000056	0.74	1626.62	196.33	0.04	0	0.03
LowerTrib	21732.7*	2-yr	3.16	93.14	7.69	6950.33	6950.97	6950.97	6951.18	0.086067	3.84	34	92.53	1.06	0.3	1.97
LowerTrib	21732.7*	5-yr	15.09	167.51	21.4	6950.33	6951.36		6951.55	0.039157	3.83	72.74	106.64	0.75	0.13	1.67
LowerTrib	21732.7*	10-yr	34.05	201.67	48.28	6950.33	6952.63		6952.67	0.002824	1.87	221.08	119.86	0.21	0.03	0.32
LowerTrib	21732.7*	25-yr	81.25	295.72	96.03	6950.33	6957.26		6957.27	0.00013	0.87	959.19	211.75	0.06	0	0.04
LowerTrib	21732.7*	50-yr	152.17	320.86	109.97	6950.33	6960.77		6960.77	0.000038	0.62	1761.74	245.6	0.03	0	0.02
LowerTrib	21732.7*	100-yr	196.65	367.65	128.7	6950.33	6962.17		6962.17	0.000033	0.63	2114.75	258.8	0.03	0	0.02
LowerTrib	21715.3*	2-yr	11.98	77.81	14.21	6948.73	6949.95		6949.98	0.004435	1.47	104.49	126.03	0.25	0.02	0.23
LowerTrib	21715.3*	5-yr	31.98	132.51	39.51	6948.73	6951.41		6951.42	0.000722	1.05	295.17	134.18	0.11	0.01	0.1
LowerTrib	21715.3*	10-yr	47.81	177.35	58.84	6948.73	6952.63		6952.64	0.000344	0.95	461.75	137.88	0.08	0.01	0.07
LowerTrib	21715.3*	25-yr	81.73	284.51	106.77	6948.73	6957.26		6957.27	0.00006	0.68	1136.56	170.35	0.04	0	0.02
LowerTrib	21715.3*	50-yr	123.13	332.17	127.7	6948.73	6960.77		6960.77	0.000026	0.56	2062.83	296.01	0.03	0	0.01
LowerTrib	21715.3*	100-yr	171.09	377.78	144.13	6948.73	6962.16		6962.17	0.000023	0.57	2493.55	319.49	0.03	0	0.01
LowerTrib	21697.9*	2-yr	19.34	62.8	21.85	6947.13	6949.96		6949.96	0.000135	0.47	347.18	148.45	0.04	0.01	0.02
LowerTrib	21697.9*	5-yr	40.89	118.01	45.1	6947.13	6951.41		6951.41	0.000112	0.57	564.67	152.2	0.04	0.01	0.03
LowerTrib	21697.9*	10-yr	58.67	161.25	64.08	6947.13	6952.63		6952.63	0.000087	0.6	753	155.38	0.04	0.01	0.03
LowerTrib	21697.9*	25-yr	102.23	260.27	110.49	6947.13	6957.27		6957.27	0.000028	0.52	1501.01	167.95	0.02	0.01	0.02
LowerTrib	21697.9*	50-yr	90.06	345.58	147.36	6947.13	6960.77		6960.77	0.000018	0.51	2271.59	333.73	0.03	0.01	0.01
LowerTrib	21697.9*	100-yr	134.46	393.42	165.12	6947.13	6962.16		6962.17	0.000017	0.53	2765.59	375.29	0.03	0	0.01
LowerTrib	21680.48	2-yr		104		6945.53	6949.95	6946.33	6949.96	0.000214	0.83	125.74	166.32	0.07		0.06
LowerTrib	21680.48	5-yr		204		6945.53	6951.38	6946.77	6951.4	0.000319	1.22	167.19	169.68	0.09		0.11
LowerTrib	21680.48	10-yr		284		6945.53	6952.59	6947.05	6952.62	0.000327	1.4	202.34	172.53	0.09		0.14
LowerTrib	21680.48	25-yr		473		6945.53	6957.23	6947.64	6957.26	0.000167	1.41	336.49	183.42	0.07		0.12
LowerTrib	21680.48	50-yr		583		6945.53	6960.73	6947.94	6960.76	0.000105	1.33	437.91	199.41	0.06		0.1
LowerTrib	21680.48	100-yr	98.92	403.94	190.15	6945.53	6962.16	6948.23	6962.17	0.000013	0.49	2938.77	398.98	0.03		0.01
LowerTrib	21604.86		Culvert													
LowerTrib	21520.49	2-yr		104		6945	6945.96	6945.96	6946.41	0.073302	5.39	19.29	21.96	0.99	0.31	4.16
LowerTrib	21520.49	5-yr		204		6945	6946.47	6946.47	6947.17	0.066841	6.75	30.24	22.91	1.01	0.5	5.69
LowerTrib	21520.49	10-yr		284		6945	6946.85	6946.85	6947.69	0.059665	7.35	38.65	23.62	0.99	0.6	6.28
LowerTrib	21520.49	25-yr		473		6945	6947.57	6947.57	6948.71	0.054816	8.59	55.08	24.95	0.99	0.74	7.77
LowerTrib	21520.49	50-yr		583		6945	6947.94	6947.94	6949.23	0.052643	9.12	63.92	25.64	0.99	0.81	8.42
LowerTrib	21520.49	100-yr		693		6945	6948.27	6948.27	6949.71	0.051674	9.62	72.01	26.26	0.99	0.89	9.09
LowerTrib	21350.22	2-yr	0.43	103.57		6942.25	6945.09	6942.85	6945.09	0.000135	0.42	248.73	113.99	0.05	0.07	0.02
LowerTrib	21350.22	5-yr	1.51	202.49		6942.25	6945.67	6943.12	6945.67	0.000246	0.65	316.15	119.06	0.07	0.11	0.04

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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	21350.22	10-yr	2.08	281.92		6942.25	6946.07	6943.28	6946.08	0.00031	0.79	368.94	149.19	0.09	0.13	0.05
LowerTrib	21350.22	25-yr	23.29	444.29	5.43	6942.25	6947.1	6943.57	6947.11	0.000298	0.93	573.43	226.81	0.1	0.11	0.05
LowerTrib	21350.22	50-yr	43.8	525.72	13.49	6942.25	6947.58	6943.73	6947.59	0.000287	0.98	682.6	228.06	0.1	0.1	0.05
LowerTrib	21350.22	100-yr	62.79	608.97	21.24	6942.25	6947.9	6943.85	6947.92	0.000306	1.06	756.45	228.91	0.1	0.11	0.06
LowerTrib	21169.19	2-yr	0.16	103.84		6943.85	6945		6945.02	0.004649	1.23	84.69	107.95	0.24		0.23
LowerTrib	21169.19	5-yr	0.49	203.51		6943.85	6945.53		6945.56	0.003192	1.44	142.53	108.4	0.22		0.26
LowerTrib	21169.19	10-yr	0.86	283.14		6943.85	6945.91		6945.95	0.002654	1.55	184.19	108.73	0.21		0.28
LowerTrib	21169.19	25-yr	2.24	470.76		6943.85	6946.97		6947.01	0.001495	1.59	299.22	109.61	0.17		0.25
LowerTrib	21169.19	50-yr	3.23	579.77		6943.85	6947.45		6947.49	0.001332	1.67	352.26	110.02	0.16		0.26
LowerTrib	21169.19	100-yr	4.2	688.8		6943.85	6947.76		6947.81	0.001389	1.81	386.63	110.28	0.17		0.29
LowerTrib	21150.6*	2-yr	0.08	103.92		6943.58	6945		6945.02	0.003818	1.22	85.58	95.72	0.23	0.08	0.21
LowerTrib	21150.6*	5-yr	0.36	203.64		6943.58	6945.53		6945.56	0.003111	1.49	136.88	96.2	0.22	0.06	0.27
LowerTrib	21150.6*	10-yr	0.71	283.29		6943.58	6945.91		6945.96	0.002743	1.64	173.87	96.54	0.22	0.06	0.3
LowerTrib	21150.6*	25-yr	2.15	470.85		6943.58	6946.97		6947.01	0.001672	1.72	276.09	97.49	0.18	0.04	0.29
LowerTrib	21150.6*	50-yr	3.21	579.79		6943.58	6947.45		6947.5	0.00152	1.82	323.28	97.92	0.18	0.03	0.3
LowerTrib	21150.6*	100-yr	4.25	688.75		6943.58	6947.76		6947.82	0.001601	1.98	353.87	98.2	0.18	0.03	0.34
LowerTrib	21132.0*	2-yr	0.03	103.97		6943.32	6944.91		6944.94	0.004597	1.36	76.55	83.41	0.25	0.1	0.26
LowerTrib	21132.0*	5-yr	0.23	203.77		6943.32	6945.46		6945.5	0.00378	1.67	122.19	83.94	0.24	0.08	0.34
LowerTrib	21132.0*	10-yr	0.56	283.44		6943.32	6945.85		6945.9	0.003358	1.84	154.93	84.32	0.24	0.07	0.38
LowerTrib	21132.0*	25-yr	2.1	470.9		6943.32	6946.92		6946.98	0.002058	1.94	246.02	85.36	0.2	0.05	0.36
LowerTrib	21132.0*	50-yr	3.28	579.72		6943.32	6947.4		6947.47	0.001886	2.05	287.52	85.83	0.2	0.04	0.38
LowerTrib	21132.0*	100-yr	4.43	688.57		6943.32	6947.71		6947.79	0.002007	2.23	313.89	86.13	0.21	0.05	0.43
LowerTrib	21113.4*	2-yr	0	104		6943.05	6944.8		6944.84	0.006348	1.6	65.17	71.02	0.29	0.15	0.36
LowerTrib	21113.4*	5-yr	0.13	203.87		6943.05	6945.36		6945.42	0.005051	1.94	105.09	71.64	0.28	0.12	0.46
LowerTrib	21113.4*	10-yr	0.41	283.59		6943.05	6945.75		6945.82	0.004475	2.14	133.44	72.08	0.28	0.11	0.51
LowerTrib	21113.4*	25-yr	2.12	470.88		6943.05	6946.85		6946.93	0.002695	2.23	213.46	73.28	0.23	0.06	0.47
LowerTrib	21113.4*	50-yr	3.53	579.47		6943.05	6947.34		6947.43	0.002536	2.36	249.34	75.24	0.23	0.06	0.5
LowerTrib	21113.4*	100-yr	4.89	688.11	0	6943.05	6947.64		6947.74	0.002741	2.57	272.15	77.12	0.24	0.06	0.58
LowerTrib	21094.9*	2-yr		104		6942.78	6944.62		6944.69	0.010221	2.06	50.44	53.43	0.37	0.33	0.6
LowerTrib	21094.9*	5-yr	0.03	203.97		6942.78	6945.21		6945.3	0.008203	2.42	84.21	59.24	0.36	0.26	0.72
LowerTrib	21094.9*	10-yr	0.24	283.76		6942.78	6945.61		6945.72	0.006964	2.63	108.38	59.78	0.34	0.2	0.77
LowerTrib	21094.9*	25-yr	2.26	470.74	0	6942.78	6946.76		6946.87	0.003997	2.68	178.24	63.54	0.28	0.1	0.67
LowerTrib	21094.9*	50-yr	3.95	578.72	0.34	6942.78	6947.24		6947.37	0.003602	2.82	209.8	66.23	0.28	0.09	0.69
LowerTrib	21094.9*	100-yr	5.24	686.74	1.02	6942.78	6947.53		6947.68	0.003868	3.08	229.11	68.51	0.3	0.1	0.78
LowerTrib	21076.3*	2-yr		104		6942.52	6944.16		6944.36	0.032763	3.59	28.96	31.85	0.66	0.43	1.85
LowerTrib	21076.3*	5-yr		204		6942.52	6944.82		6945.04	0.024419	3.78	54.02	44.19	0.6	0.36	1.85

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	21076.3*	10-yr	0.03	283.97		6942.52	6945.3		6945.52	0.016243	3.72	76.48	47.17	0.51	0.27	1.62
LowerTrib	21076.3*	25-yr	2.44	469.59	0.97	6942.52	6946.59		6946.77	0.006548	3.41	141.05	54.61	0.37	0.14	1.03
LowerTrib	21076.3*	50-yr	5.27	574.29	3.44	6942.52	6947.08		6947.28	0.005768	3.56	169.02	58.61	0.37	0.13	1.01
LowerTrib	21076.3*	100-yr	8.19	678.75	6.06	6942.52	6947.35		6947.58	0.006258	3.9	184.72	60.01	0.39	0.13	1.17
LowerTrib	21057.78	2-yr		37		6942.25	6943.89	6943.23	6943.94	0.008175	1.86	19.95	20.64	0.33	1	0.48
LowerTrib	21057.78	5-yr		89		6942.25	6944.6	6943.71	6944.69	0.008957	2.37	37.55	28.82	0.37	1.03	0.72
LowerTrib	21057.78	10-yr		146.98	0.02	6942.25	6945.14	6944.13	6945.25	0.008818	2.69	54.8	35.17	0.38	1.03	0.84
LowerTrib	21057.78	25-yr	5.4	373.81	5.79	6942.25	6946.42	6945.13	6946.63	0.007889	3.74	108.85	48.02	0.43	1.14	1.1
LowerTrib	21057.78	50-yr	13.22	481.57	12.21	6942.25	6946.89	6945.48	6947.15	0.007829	4.12	131.73	85.28	0.43	1.2	1.28
LowerTrib	21057.78	100-yr	18.87	549.36	16.77	6942.25	6947.17	6945.68	6947.45	0.007831	4.35	145.05	107.81	0.44	1.24	1.39
LowerTrib	20950.22	2-yr		37		6941.51	6942.88	6942.4	6942.94	0.010604	1.98	18.71	21.43	0.37	2.39	0.57
LowerTrib	20950.22	5-yr		89		6941.51	6943.56	6942.81	6943.66	0.010202	2.56	34.79	73.52	0.39	2.34	0.83
LowerTrib	20950.22	10-yr		147		6941.51	6944.08	6943.16	6944.21	0.010351	2.98	49.38	100.73	0.41	2.36	1.05
LowerTrib	20950.22	25-yr		385		6941.51	6945.19	6944.17	6945.5	0.014604	4.43	86.93	149.22	0.51	2.66	2.07
LowerTrib	20950.22	50-yr		507		6941.51	6945.56	6944.54	6945.95	0.016718	5.02	100.98	166.49	0.55	2.82	2.58
LowerTrib	20950.22	100-yr		585		6941.51	6945.77	6944.78	6946.21	0.017833	5.34	109.45	176.03	0.58	2.92	2.88
LowerTrib	20786.19	2-yr		37		6938.71	6940.44		6940.56	0.021211	2.78	13.29	15.09	0.52	0.58	1.13
LowerTrib	20786.19	5-yr		89		6938.71	6941.14		6941.31	0.021251	3.36	26.46	22.74	0.55	0.6	1.5
LowerTrib	20786.19	10-yr		146.95	0.05	6938.71	6941.63		6941.85	0.021144	3.74	39.53	34.43	0.61	0.62	1.49
LowerTrib	20786.19	25-yr	0	312.06	72.94	6938.71	6942.6	6942.25	6942.84	0.017857	4.32	114.86	112.31	0.69	0.6	1.13
LowerTrib	20786.19	50-yr	0.15	380.12	126.73	6938.71	6942.86	6942.48	6943.13	0.017197	4.62	146.79	127.68	0.68	0.59	1.23
LowerTrib	20786.19	100-yr	0.44	422.41	162.14	6938.71	6943.01	6942.61	6943.29	0.01722	4.83	165.53	137.28	0.68	0.59	1.29
LowerTrib	20763.13	2-yr		37		6938.26	6939.81		6939.97	0.030269	3.23	11.45	13.59	0.62	2.77	1.55
LowerTrib	20763.13	5-yr		89		6938.26	6940.46	6940.1	6940.71	0.031484	4.01	22.2	19.68	0.66	3.25	2.16
LowerTrib	20763.13	10-yr		146.98	0.02	6938.26	6940.9	6940.54	6941.23	0.034103	4.64	31.77	27.12	0.75	3.57	2.44
LowerTrib	20763.13	25-yr		331.79	53.21	6938.26	6941.79	6941.65	6942.24	0.03868	5.73	80.48	78.83	0.94	4	2.44
LowerTrib	20763.13	50-yr		408.81	98.19	6938.26	6942.07	6941.98	6942.54	0.038789	5.99	105.35	99.25	0.94	4.06	2.55
LowerTrib	20763.13	100-yr		454.27	130.73	6938.26	6942.21	6942.13	6942.69	0.03902	6.14	120.53	110.27	0.94	4.08	2.64
LowerTrib	20550.22	2-yr		12.2	24.8	6936.17	6937.19		6937.2	0.007031	0.93	42.34	107.14	0.25	1.27	0.17
LowerTrib	20550.22	5-yr		30.98	58.02	6936.17	6937.44		6937.46	0.008712	1.41	72.72	131.01	0.29	1.22	0.3
LowerTrib	20550.22	10-yr	0.03	50.47	96.5	6936.17	6937.62		6937.66	0.009546	1.76	97.22	137.36	0.32	1.19	0.42
LowerTrib	20550.22	25-yr	1.45	127.57	255.98	6936.17	6938.16		6938.24	0.010593	2.62	176.52	156.82	0.37	1.22	0.74
LowerTrib	20550.22	50-yr	2.78	166.07	338.15	6936.17	6938.38		6938.47	0.010821	2.93	211.58	167.05	0.39	1.24	0.85
LowerTrib	20550.22	100-yr	3.99	190.06	390.95	6936.17	6938.5		6938.61	0.01086	3.1	233.36	173.49	0.39	1.25	0.91
LowerTrib	20452.99	2-yr		0.56	36.44	6935.69	6935.9		6935.94	0.032166	0.84	24.21	80.6	0.5	1.57	0.6
LowerTrib	20452.99	5-yr	0.09	5.14	83.77	6935.69	6936.21		6936.25	0.019475	1.17	55.66	124.42	0.43	1.39	0.54

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	20452.99	10-yr	1.57	12.93	132.5	6935.69	6936.43		6936.47	0.016162	1.52	84.92	142.41	0.4	1.3	0.6
LowerTrib	20452.99	25-yr	11.18	47.11	326.71	6935.69	6936.94		6937.02	0.015134	2.45	164.94	166.04	0.42	1.24	0.94
LowerTrib	20452.99	50-yr	17.37	64.92	424.71	6935.69	6937.13		6937.23	0.015248	2.79	197.26	178.09	0.43	1.23	1.05
LowerTrib	20452.99	100-yr	15.78	77.22	492	6935.69	6937.25		6937.36	0.015315	2.99	220.17	201.44	0.46	1.23	1.04
LowerTrib	20393.38	2-yr	1.24	35.64	0.12	6932.92	6934.25		6934.37	0.021728	2.83	13.99	23.78	0.64	0.42	0.79
LowerTrib	20393.38	5-yr	7.24	74.4	7.36	6932.92	6934.64	6934.52	6934.86	0.027495	4.07	28.88	53.14	0.9	0.56	0.93
LowerTrib	20393.38	10-yr	17.4	106.56	23.04	6932.92	6934.91	6934.83	6935.18	0.029736	4.81	45.87	78.59	0.97	0.61	1.08
LowerTrib	20393.38	25-yr	87.17	180.58	117.25	6932.92	6935.49	6935.44	6935.79	0.029129	5.9	113.43	135.06	0.85	0.57	1.52
LowerTrib	20393.38	50-yr	130.57	208.04	168.4	6932.92	6935.69		6936.01	0.028371	6.2	142.08	145.66	0.8	0.55	1.72
LowerTrib	20393.38	100-yr	157.1	225.17	202.73	6932.92	6935.81		6936.13	0.028179	6.39	159.6	153.37	0.79	0.54	1.83
LowerTrib	20374.32	2-yr		9.52	27.48	6932.98	6933.9		6933.95	0.020308	1.86	22.01	45.39	0.43	1.55	0.61
LowerTrib	20374.32	5-yr		23.22	65.78	6932.98	6934.22		6934.3	0.026896	2.55	39.93	66.72	0.51	1.5	1
LowerTrib	20374.32	10-yr		36.42	110.58	6932.98	6934.47		6934.57	0.028901	2.81	58.16	84.73	0.54	1.5	1.23
LowerTrib	20374.32	25-yr	2.32	98.98	283.7	6932.98	6935.06		6935.22	0.026372	3.71	124.69	131.42	0.57	1.55	1.56
LowerTrib	20374.32	50-yr	6.32	129.14	371.54	6932.98	6935.28		6935.46	0.024967	4.06	154.75	145.32	0.58	1.57	1.65
LowerTrib	20374.32	100-yr	9.92	147.65	427.43	6932.98	6935.4		6935.59	0.024574	4.26	172.61	153	0.58	1.58	1.73
LowerTrib	20291.07	2-yr		4.33	32.67	6931.68	6932.37		6932.4	0.017144	1.35	26.6	62.89	0.38	1.36	0.45
LowerTrib	20291.07	5-yr		12.48	76.52	6931.68	6932.77		6932.8	0.012726	1.58	57.28	91.92	0.35	1.36	0.49
LowerTrib	20291.07	10-yr	0.17	22.57	124.26	6931.68	6933.02		6933.07	0.012067	1.91	84.08	114	0.36	1.39	0.55
LowerTrib	20291.07	25-yr	4.91	59.78	320.31	6931.68	6933.58		6933.67	0.013535	2.87	161.87	154.57	0.42	1.42	0.88
LowerTrib	20291.07	50-yr	9.1	77.99	419.91	6931.68	6933.77		6933.88	0.01446	3.25	192.18	162.96	0.44	1.41	1.06
LowerTrib	20291.07	100-yr	12.37	89.34	483.29	6931.68	6933.89		6934.01	0.014769	3.46	211.08	167.97	0.45	1.43	1.15
LowerTrib	20221.25	2-yr	0.17	35.75	1.08	6928.97	6930.92	6930.48	6931.04	0.02216	2.86	14.58	37	0.79	0.82	0.54
LowerTrib	20221.25	5-yr	7.34	70.65	11.02	6928.97	6931.22	6931.22	6931.45	0.032314	4.2	31.36	76.8	1.04	0.94	0.82
LowerTrib	20221.25	10-yr	18.95	96.67	31.38	6928.97	6931.42	6931.41	6931.68	0.036966	4.96	47.83	95.06	1.03	0.95	1.15
LowerTrib	20221.25	25-yr	75.5	159.44	150.06	6928.97	6931.98	6931.89	6932.26	0.032617	5.83	115.11	144.98	0.84	0.89	1.61
LowerTrib	20221.25	50-yr	107.51	180.58	218.92	6928.97	6932.19	6932.07	6932.46	0.029569	5.95	147.89	159.03	0.77	0.86	1.71
LowerTrib	20221.25	100-yr	127.1	194.76	263.14	6928.97	6932.3	6932.16	6932.58	0.029431	6.13	164.7	164.25	0.75	0.84	1.84
LowerTrib	20200.42	2-yr	0.12	36.88		6928.88	6930.04	6930.04	6930.21	0.088296	3.32	11.38	41.14	1.11	0.34	1.52
LowerTrib	20200.42	5-yr	13.05	74.74	1.21	6928.88	6930.29	6930.29	6930.51	0.066947	4	26.82	69.04	1.06	0.36	1.62
LowerTrib	20200.42	10-yr	31.96	108.98	6.06	6928.88	6930.48	6930.48	6930.73	0.057537	4.44	41.29	79.51	0.98	0.37	1.86
LowerTrib	20200.42	25-yr	107.21	231.61	46.17	6928.88	6930.96	6930.96	6931.36	0.056903	5.98	85.66	107.96	1.01	0.46	2.81
LowerTrib	20200.42	50-yr	148.03	287.63	71.34	6928.88	6931.13	6931.13	6931.6	0.057736	6.55	105.36	121.52	1.04	0.5	3.12
LowerTrib	20200.42	100-yr	174.39	319.7	90.91	6928.88	6931.25	6931.25	6931.74	0.055355	6.75	120.04	132.17	1.04	0.52	3.13
LowerTrib	20150.22	2-yr	0.6	24.87	11.53	6926.24	6926.97	6926.58	6926.97	0.001889	0.62	65.13	132.96	0.15	2.03	0.06
LowerTrib	20150.22	5-yr	4.09	57.05	27.86	6926.24	6927.31	6926.7	6927.32	0.002018	0.88	112.17	143.66	0.16	2.11	0.1

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	20150.22	10-yr	10.25	94.6	42.15	6926.24	6927.6		6927.62	0.00214	1.1	156.95	164.49	0.18	2.24	0.13
LowerTrib	20150.22	25-yr	41.17	224.54	119.29	6926.24	6928.31		6928.35	0.002538	1.64	280.75	185.35	0.21	2.54	0.24
LowerTrib	20150.22	50-yr	59.51	288.13	159.36	6926.24	6928.58		6928.62	0.002697	1.84	331.32	194.08	0.22	2.66	0.29
LowerTrib	20150.22	100-yr	71.4	328.78	184.82	6926.24	6928.7		6928.75	0.002923	1.99	355.36	198.09	0.23	2.69	0.33
LowerTrib	19810.83	2-yr		37		6924.53	6924.84	6924.84	6924.95	0.116035	2.69	13.74	60.48	1		1.65
LowerTrib	19810.83	5-yr		89		6924.53	6925.03	6925.03	6925.21	0.098608	3.39	26.27	72.48	0.99		2.23
LowerTrib	19810.83	10-yr		147		6924.53	6925.21	6925.21	6925.39	0.104596	3.36	43.75	127.73	1.01		2.24
LowerTrib	19810.83	25-yr		385		6924.53	6925.53	6925.53	6925.8	0.088723	4.18	92.01	170.88	1		2.98
LowerTrib	19810.83	50-yr		507		6924.53	6925.65	6925.65	6925.96	0.084933	4.51	112.48	180.82	1.01		3.3
LowerTrib	19810.83	100-yr		585		6924.53	6925.8		6926.06	0.060755	4.1	142.51	205.03	0.87		2.64
LowerTrib	19800.9*	2-yr		37		6924.26	6924.74		6924.78	0.023965	1.61	23.01	70.18	0.49	0.23	0.49
LowerTrib	19800.9*	5-yr		89		6924.26	6925		6925.05	0.027559	1.8	49.57	142.3	0.54	0.27	0.6
LowerTrib	19800.9*	10-yr		147		6924.26	6925.13		6925.2	0.026631	2.13	69.17	150.3	0.55	0.27	0.76
LowerTrib	19800.9*	25-yr		385		6924.26	6925.53		6925.65	0.026203	2.81	136.99	193.36	0.59	0.26	1.16
LowerTrib	19800.9*	50-yr		507		6924.26	6925.68		6925.82	0.02438	3.03	167.08	199.12	0.58	0.23	1.28
LowerTrib	19800.9*	100-yr		585		6924.26	6925.8		6925.95	0.021236	3.06	191.46	203.6	0.56	0.19	1.25
LowerTrib	19791.1*	2-yr		37		6923.99	6924.51		6924.55	0.022696	1.52	24.3	78.94	0.48	0.25	0.44
LowerTrib	19791.1*	5-yr		89		6923.99	6924.72		6924.77	0.027966	1.87	47.71	133.73	0.55	0.27	0.62
LowerTrib	19791.1*	10-yr		147		6923.99	6924.85		6924.93	0.027269	2.22	66.27	140.55	0.57	0.26	0.8
LowerTrib	19791.1*	25-yr		385		6923.99	6925.26		6925.39	0.025771	2.89	133.01	181.37	0.6	0.24	1.18
LowerTrib	19791.1*	50-yr		507		6923.99	6925.46		6925.6	0.021217	3	168.96	188.63	0.56	0.18	1.19
LowerTrib	19791.1*	100-yr		585		6923.99	6925.63		6925.76	0.016555	2.91	201.21	195.51	0.51	0.14	1.06
LowerTrib	19781.2*	2-yr		37		6923.72	6924.26		6924.3	0.027582	1.5	24.64	99.08	0.53	0.27	0.43
LowerTrib	19781.2*	5-yr		89		6923.72	6924.45		6924.51	0.026155	1.92	46.38	124	0.55	0.26	0.61
LowerTrib	19781.2*	10-yr		147		6923.72	6924.59		6924.67	0.025814	2.28	64.43	131.58	0.57	0.25	0.79
LowerTrib	19781.2*	25-yr		385		6923.72	6925.02		6925.15	0.02321	2.93	131.32	169.94	0.59	0.21	1.12
LowerTrib	19781.2*	50-yr		507		6923.72	6925.29		6925.41	0.015667	2.84	178.59	180.59	0.5	0.14	0.97
LowerTrib	19781.2*	100-yr		585		6923.72	6925.5		6925.61	0.011587	2.68	218.54	192.46	0.44	0.1	0.82
LowerTrib	19771.3*	2-yr		37		6923.45	6924		6924.03	0.027838	1.51	24.46	100.21	0.54	0.27	0.42
LowerTrib	19771.3*	5-yr		89		6923.45	6924.17		6924.23	0.027402	2.03	43.85	114.21	0.58	0.26	0.66
LowerTrib	19771.3*	10-yr		147		6923.45	6924.33		6924.42	0.025731	2.33	63.01	127.06	0.58	0.25	0.8
LowerTrib	19771.3*	25-yr		385		6923.45	6924.82		6924.94	0.018848	2.85	135.17	159.95	0.55	0.16	0.99
LowerTrib	19771.3*	50-yr		507		6923.45	6925.17		6925.28	0.011255	2.6	194.96	179.57	0.44	0.09	0.76
LowerTrib	19771.3*	100-yr		585		6923.45	6925.42		6925.51	0.008209	2.4	243.88	200.09	0.38	0.07	0.62
LowerTrib	19761.5*	2-yr		37		6923.18	6923.72		6923.76	0.027405	1.55	23.86	97.64	0.55	0.27	0.42
LowerTrib	19761.5*	5-yr		89		6923.18	6923.9		6923.97	0.026094	2.11	42.12	104.45	0.59	0.25	0.66

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	19761.5*	10-yr		147		6923.18	6924.07		6924.16	0.025832	2.39	61.4	125.28	0.6	0.25	0.79
LowerTrib	19761.5*	25-yr		385		6923.18	6924.68		6924.79	0.012871	2.63	146.48	154.01	0.47	0.11	0.76
LowerTrib	19761.5*	50-yr		507		6923.18	6925.1		6925.18	0.007251	2.32	218.83	180.7	0.37	0.06	0.55
LowerTrib	19761.5*	100-yr		585		6923.18	6925.37		6925.45	0.004971	2.18	268.25	182.68	0.32	0.04	0.46
LowerTrib	19751.6*	2-yr		37		6922.91	6923.44		6923.48	0.028199	1.65	22.44	87.68	0.57	0.27	0.45
LowerTrib	19751.6*	5-yr		89		6922.91	6923.64		6923.72	0.025104	2.18	40.9	96.6	0.59	0.25	0.66
LowerTrib	19751.6*	10-yr		147		6922.91	6923.81		6923.91	0.025498	2.5	58.9	114.54	0.61	0.24	0.82
LowerTrib	19751.6*	25-yr		385		6922.91	6924.59		6924.67	0.009095	2.36	163.44	159.93	0.41	0.07	0.58
LowerTrib	19751.6*	50-yr		507		6922.91	6925.05		6925.12	0.004597	2.12	238.65	163.31	0.31	0.04	0.42
LowerTrib	19751.6*	100-yr		585		6922.91	6925.34		6925.4	0.003425	2.05	285.51	165.32	0.27	0.03	0.37
LowerTrib	19741.7*	2-yr		37		6922.64	6923.17		6923.22	0.025878	1.72	21.54	78.04	0.58	0.25	0.45
LowerTrib	19741.7*	5-yr		89		6922.64	6923.39		6923.47	0.025274	2.25	39.55	93.82	0.61	0.24	0.66
LowerTrib	19741.7*	10-yr		147		6922.64	6923.57		6923.67	0.022631	2.55	57.71	104.62	0.6	0.2	0.78
LowerTrib	19741.7*	25-yr		385		6922.64	6924.53		6924.6	0.005267	2.14	180.27	142.51	0.33	0.04	0.42
LowerTrib	19741.7*	50-yr		507		6922.64	6925.02		6925.08	0.003141	2.02	250.86	146.03	0.27	0.03	0.34
LowerTrib	19741.7*	100-yr		585		6922.64	6925.31		6925.37	0.00252	1.99	293.73	148.13	0.25	0.02	0.31
LowerTrib	19731.9*	2-yr		37		6922.37	6922.91		6922.96	0.02531	1.82	20.37	68.47	0.59	0.24	0.47
LowerTrib	19731.9*	5-yr		89		6922.37	6923.14		6923.22	0.024102	2.35	37.82	83.09	0.61	0.2	0.68
LowerTrib	19731.9*	10-yr		147		6922.37	6923.38		6923.48	0.017408	2.46	59.86	96.61	0.55	0.14	0.67
LowerTrib	19731.9*	25-yr		385		6922.37	6924.49		6924.56	0.00362	2.03	189.72	125.28	0.29	0.03	0.34
LowerTrib	19731.9*	50-yr		507		6922.37	6924.99		6925.06	0.002489	2	253.4	128.93	0.25	0.02	0.3
LowerTrib	19731.9*	100-yr		585		6922.37	6925.29		6925.35	0.002122	2.01	291.61	131.05	0.24	0.02	0.29
LowerTrib	19722.0*	2-yr		37		6922.1	6922.65		6922.71	0.024204	1.93	19.19	60.06	0.6	0.23	0.48
LowerTrib	19722.0*	5-yr		89		6922.1	6922.94		6923.02	0.017692	2.29	38.81	74.07	0.56	0.15	0.58
LowerTrib	19722.0*	10-yr		147		6922.1	6923.26		6923.34	0.01108	2.24	65.49	90.82	0.47	0.09	0.5
LowerTrib	19722.0*	25-yr		385		6922.1	6924.46		6924.53	0.002778	2.03	189.74	108.19	0.27	0.03	0.3
LowerTrib	19722.0*	50-yr		507		6922.1	6924.97		6925.03	0.002145	2.07	245.31	111.95	0.25	0.02	0.29
LowerTrib	19722.0*	100-yr	0	585		6922.1	6925.26		6925.33	0.001912	2.1	278.66	114.25	0.24	0.02	0.29
LowerTrib	19712.1*	2-yr		37		6921.83	6922.41		6922.47	0.022626	2	18.5	53.59	0.6	0.16	0.49
LowerTrib	19712.1*	5-yr		89		6921.83	6922.8		6922.87	0.011811	2.1	42.33	69.82	0.48	0.09	0.45
LowerTrib	19712.1*	10-yr		147		6921.83	6923.18		6923.25	0.006898	2.05	71.59	81.66	0.39	0.06	0.38
LowerTrib	19712.1*	25-yr	0	385		6921.83	6924.43		6924.5	0.002581	2.15	179.36	91.44	0.27	0.03	0.31
LowerTrib	19712.1*	50-yr	0.27	506.69	0.04	6921.83	6924.93		6925.01	0.002097	2.24	226.86	96.11	0.26	0.02	0.31
LowerTrib	19712.1*	100-yr	0.87	583.92	0.21	6921.83	6925.23		6925.31	0.00191	2.31	255.43	98.23	0.25	0.02	0.31
LowerTrib	19702.3*	2-yr		37		6921.56	6922.26		6922.31	0.012263	1.83	20.27	44.91	0.48	0.1	0.35
LowerTrib	19702.3*	5-yr		89		6921.56	6922.72		6922.78	0.007454	1.97	45.11	61.21	0.4	0.07	0.34

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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	19702.3*	10-yr		147		6921.56	6923.12		6923.19	0.004942	2.08	70.53	64.65	0.35	0.05	0.34
LowerTrib	19702.3*	25-yr	0.85	383.92	0.24	6921.56	6924.38		6924.47	0.00262	2.46	158.47	75.41	0.3	0.04	0.34
LowerTrib	19702.3*	50-yr	2.75	503.16	1.09	6921.56	6924.88		6924.99	0.002298	2.63	197.42	80.12	0.29	0.04	0.35
LowerTrib	19702.3*	100-yr	4.71	578.31	1.98	6921.56	6925.17		6925.29	0.002172	2.74	221.13	82.98	0.29	0.04	0.36
LowerTrib	19692.4*	2-yr		37		6921.29	6922.15		6922.21	0.0089	1.8	20.53	37.48	0.43	0.19	0.3
LowerTrib	19692.4*	5-yr		89		6921.29	6922.63		6922.71	0.006752	2.2	40.47	44.47	0.41	0.16	0.38
LowerTrib	19692.4*	10-yr	0.05	146.94	0.01	6921.29	6923.04		6923.13	0.005517	2.48	59.45	48.38	0.39	0.15	0.42
LowerTrib	19692.4*	25-yr	5.18	377.5	2.32	6921.29	6924.27		6924.43	0.003783	3.23	125.48	59.14	0.39	0.15	0.5
LowerTrib	19692.4*	50-yr	11.02	490.92	5.06	6921.29	6924.77		6924.95	0.003516	3.51	155.79	64.26	0.39	0.16	0.53
LowerTrib	19692.4*	100-yr	14.44	563.33	7.23	6921.29	6925.05		6925.25	0.003432	3.68	174.53	70.44	0.4	0.16	0.53
LowerTrib	19682.6	2-yr		37		6921.02	6921.77	6921.77	6922.02	0.046196	4.01	9.22	18.39	1	0.57	1.44
LowerTrib	19682.6	5-yr	0.06	88.93	0.01	6921.02	6922.17	6922.17	6922.54	0.040041	4.9	18.23	25.23	1.02	0.64	1.79
LowerTrib	19682.6	10-yr	0.75	145.98	0.27	6921.02	6922.46	6922.46	6922.98	0.035849	5.78	26.06	27.78	1.05	0.73	2.08
LowerTrib	19682.6	25-yr	11.99	367.24	5.77	6921.02	6923.39	6923.39	6924.28	0.02752	7.73	55.19	35.42	1.07	0.96	2.64
LowerTrib	19682.6	50-yr	22.2	473.82	10.97	6921.02	6923.78	6923.78	6924.79	0.025269	8.34	69.65	39.24	1.07	1.02	2.75
LowerTrib	19682.6	100-yr	30.33	539.66	15.01	6921.02	6924.02	6924.02	6925.09	0.023736	8.62	79.39	41.86	1.06	1.02	2.76
LowerTrib	19619.02	2-yr	13.46	91.51	0.03	6919.14	6920.44		6920.51	0.005583	2.21	56.75	72.61	0.42	0.57	0.27
LowerTrib	19619.02	5-yr	31.47	154.04	0.5	6919.14	6920.8		6920.9	0.005627	2.73	84.26	79.64	0.43	0.55	0.37
LowerTrib	19619.02	10-yr	45.94	198.9	1.15	6919.14	6921.01		6921.14	0.005805	3.05	101.41	83.73	0.45	0.54	0.44
LowerTrib	19619.02	25-yr	79.76	296.86	3.39	6919.14	6921.38		6921.56	0.006389	3.68	133.6	91.56	0.49	0.57	0.58
LowerTrib	19619.02	50-yr	96.59	352.37	5.05	6919.14	6921.55		6921.76	0.006794	4.02	150.08	99.34	0.52	0.59	0.64
LowerTrib	19619.02	100-yr	128.01	422.35	7.64	6919.14	6921.76		6922	0.007118	4.38	171.18	102.62	0.53	0.6	0.74
LowerTrib	19570.53	2-yr	2.84	101.75	0.41	6918.33	6919.6	6919.6	6919.94	0.032852	4.73	24.81	47.05	1.13	0.37	1.08
LowerTrib	19570.53	5-yr	17.23	165.11	3.66	6918.33	6919.95	6919.95	6920.36	0.027249	5.43	44.55	68.29	1.12	0.35	1.11
LowerTrib	19570.53	10-yr	33.08	205.47	7.44	6918.33	6920.15	6920.15	6920.59	0.024944	5.77	59.36	79.61	1.09	0.33	1.16
LowerTrib	19570.53	25-yr	75.76	286.44	17.79	6918.33	6920.47	6920.47	6920.98	0.023816	6.5	87.68	93.58	1.05	0.33	1.39
LowerTrib	19570.53	50-yr	101.97	327.1	24.93	6918.33	6920.63	6920.63	6921.17	0.023265	6.81	102.44	98.95	1.02	0.32	1.5
LowerTrib	19570.53	100-yr	141.04	381.4	35.57	6918.33	6920.81	6920.81	6921.4	0.022915	7.2	121.54	104.53	1	0.32	1.66
LowerTrib	19557.19	2-yr	3.71	100.24	1.05	6918.07	6919.3	6919.16	6919.52	0.019241	3.83	31.5	55.62	0.88	2.77	0.68
LowerTrib	19557.19	5-yr	16.44	165.76	3.8	6918.07	6919.57	6919.5	6919.9	0.021734	4.86	48.51	68.37	0.97	2.84	0.96
LowerTrib	19557.19	10-yr	28.44	211.1	6.46	6918.07	6919.72	6919.68	6920.13	0.023744	5.5	59.07	74.8	1.02	2.86	1.17
LowerTrib	19557.19	25-yr	63.03	302.82	14.15	6918.07	6920.01	6920.01	6920.54	0.025165	6.47	82.35	85.19	1.05	2.73	1.52
LowerTrib	19557.19	50-yr	85.75	348.85	19.39	6918.07	6920.16	6920.16	6920.73	0.024707	6.81	95.7	90.03	1.04	2.61	1.64
LowerTrib	19557.19	100-yr	119.47	411.22	27.32	6918.07	6920.35	6920.35	6920.98	0.024343	7.24	113.55	96.44	1.03	2.49	1.79
LowerTrib	19477	2-yr		52.23	52.77	6915.9	6916.5	6916.5	6916.74	0.079026	4.08	26.82	60.21	1.04	2.67	2.19
LowerTrib	19477	5-yr	0.23	108.82	76.95	6915.9	6916.72	6916.72	6917.06	0.067256	5.14	40.71	68.19	1.07	2.65	2.5

Falcon DBPS
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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	19477	10-yr	1.41	151.22	93.38	6915.9	6916.86	6916.86	6917.26	0.059431	5.65	50.95	73.93	1.08	2.56	2.55
LowerTrib	19477	25-yr	8.12	242.68	129.2	6915.9	6917.15	6917.15	6917.65	0.047939	6.4	73.82	85.38	1.07	5.59	2.58
LowerTrib	19477	50-yr	13.89	291.14	148.97	6915.9	6917.29	6917.29	6917.83	0.044442	6.73	85.95	90.87	1.07	5.2	2.62
LowerTrib	19477	100-yr	24.2	357.15	176.66	6915.9	6917.47	6917.47	6918.06	0.040728	7.11	102.83	98	1.06	4.9	2.66
LowerTrib	19350.22	2-yr	0.03	104.97	0	6910.3	6911.09		6911.15	0.009292	1.92	54.68	101.06	0.46	8.63	0.31
LowerTrib	19350.22	5-yr	0.45	185.38	0.17	6910.3	6911.31		6911.4	0.009643	2.44	77.03	106	0.5	8.68	0.44
LowerTrib	19350.22	10-yr	1.1	244.42	0.48	6910.3	6911.45		6911.56	0.009573	2.72	92.08	108.83	0.52	8.7	0.51
LowerTrib	19350.22	25-yr	0.92	378.74	0.34	6910.3	6911.31	6911.31	6911.7	0.040249	4.99	77.03	106	1.03	8.4	1.83
LowerTrib	19350.22	50-yr	1.77	451.48	0.75	6910.3	6911.41	6911.41	6911.84	0.037479	5.24	88.11	108.09	1.02	7.2	1.91
LowerTrib	19350.22	100-yr	3.3	553.17	1.53	6910.3	6911.54	6911.54	6912.02	0.03619	5.62	101.56	110.57	1.03	5.62	2.07
LowerTrib	18950.22	2-yr		2.49	102.51	6902.26	6902.36	6902.36	6902.52	0.09486	1.39	33.46	104.72	1	0.62	1.89
LowerTrib	18950.22	5-yr		22.89	163.11	6902.26	6902.52	6902.52	6902.73	0.086457	2.85	51.73	120.53	0.98	0.1	2.32
LowerTrib	18950.22	10-yr		40.98	205.02	6902.26	6902.6	6902.6	6902.85	0.089237	3.56	61.24	127.1	1.01	0.12	2.78
LowerTrib	18950.22	25-yr	39.66	115.81	224.52	6902.26	6903.18	6902.79	6903.27	0.012658	2.77	170.77	212.84	0.47	0.08	0.63
LowerTrib	18950.22	50-yr	60.21	144.51	249.28	6902.26	6903.34	6902.84	6903.43	0.010321	2.85	205.39	215.52	0.43	0.09	0.61
LowerTrib	18950.22	100-yr	93.23	185.1	279.67	6902.26	6903.61	6903.01	6903.69	0.00718	2.82	263.97	219.99	0.37	0.1	0.54
LowerTrib	18550.22	2-yr	16.81	31.29	56.9	6898.94	6900.41		6900.42	0.00041	0.58	279.97	356.38	0.08	0.02	0.02
LowerTrib	18550.22	5-yr	53.95	47.25	84.8	6898.94	6902.29		6902.29	0.000024	0.29	1002.54	400.76	0.02	0	0
LowerTrib	18550.22	10-yr	73.27	61.44	111.28	6898.94	6902.67		6902.67	0.000027	0.33	1155.09	404.47	0.02	0	0
LowerTrib	18550.22	25-yr	116.21	93.2	170.59	6898.94	6903.19		6903.19	0.000037	0.43	1365.7	409.43	0.03	0	0.01
LowerTrib	18550.22	50-yr	139.69	110.86	203.45	6898.94	6903.34		6903.34	0.000046	0.5	1426.78	410.88	0.03	0	0.01
LowerTrib	18550.22	100-yr	173.32	135.32	249.37	6898.94	6903.59		6903.6	0.000055	0.57	1531.62	413.36	0.04	0	0.01
LowerTrib	18507.3*	2-yr	6.76	51.37	46.86	6898.54	6900.39		6900.39	0.000706	0.85	209.31	330.51	0.14	0.04	0.03
LowerTrib	18507.3*	5-yr	46.88	55.92	83.2	6898.54	6902.29		6902.29	0.00003	0.34	919.77	400.36	0.03	0	0
LowerTrib	18507.3*	10-yr	64.65	70.81	110.54	6898.54	6902.67		6902.67	0.000033	0.38	1072.32	404.89	0.03	0	0.01
LowerTrib	18507.3*	25-yr	103.97	104.46	171.57	6898.54	6903.19		6903.19	0.000044	0.49	1283.06	410.87	0.03	0	0.01
LowerTrib	18507.3*	50-yr	125.39	123.43	205.18	6898.54	6903.34		6903.34	0.000055	0.56	1344.38	412.68	0.04	0	0.01
LowerTrib	18507.3*	100-yr	156.28	149.11	252.61	6898.54	6903.59		6903.59	0.000065	0.63	1449.54	415.61	0.04	0	0.01
LowerTrib	18464.4*	2-yr	1.61	72.78	30.6	6898.15	6900.34		6900.36	0.000962	1.11	156.21	256.54	0.21	0.04	0.04
LowerTrib	18464.4*	5-yr	39.72	65.94	80.33	6898.15	6902.29		6902.29	0.000038	0.4	832.73	394.78	0.03	0	0.01
LowerTrib	18464.4*	10-yr	56.29	81.78	107.93	6898.15	6902.67		6902.67	0.000041	0.44	984.14	403.72	0.03	0	0.01
LowerTrib	18464.4*	25-yr	92.3	117.43	170.28	6898.15	6903.19		6903.19	0.000054	0.56	1194.47	411.38	0.04	0	0.01
LowerTrib	18464.4*	50-yr	111.75	137.83	204.42	6898.15	6903.33		6903.34	0.000066	0.63	1255.7	413.55	0.04	0	0.01
LowerTrib	18464.4*	100-yr	140.07	164.8	253.13	6898.15	6903.59		6903.59	0.000078	0.71	1360.74	417.16	0.05	0	0.02
LowerTrib	18421.6*	2-yr	0	85.47	19.53	6897.75	6900.3		6900.32	0.000923	1.21	124.61	167.17	0.23	0.03	0.04
LowerTrib	18421.6*	5-yr	32.21	76.73	77.06	6897.75	6902.29		6902.29	0.000048	0.47	745.86	380.49	0.04	0	0.01

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	18421.6*	10-yr	47.61	93.77	104.62	6897.75	6902.67		6902.67	0.000051	0.51	892.52	393.97	0.04	0	0.01
LowerTrib	18421.6*	25-yr	80.88	132.31	166.81	6897.75	6903.18		6903.18	0.000067	0.64	1100.21	409.5	0.05	0	0.01
LowerTrib	18421.6*	50-yr	98.47	154.37	201.16	6897.75	6903.33		6903.33	0.000081	0.72	1160.81	412.44	0.05	0	0.01
LowerTrib	18421.6*	100-yr	124.45	182.8	250.75	6897.75	6903.58		6903.59	0.000095	0.81	1265.55	417.41	0.06	0	0.02
LowerTrib	18378.7*	2-yr		90.07	14.93	6897.35	6900.26		6900.28	0.00072	1.19	119.07	126.27	0.2	0.03	0.04
LowerTrib	18378.7*	5-yr	24.63	83.74	77.64	6897.35	6902.29		6902.29	0.000054	0.51	673.25	336.8	0.05	0	0.01
LowerTrib	18378.7*	10-yr	38.67	105.76	101.57	6897.35	6902.66		6902.67	0.000062	0.59	803.73	375.01	0.05	0	0.01
LowerTrib	18378.7*	25-yr	69.1	147.79	163.11	6897.35	6903.18		6903.18	0.000082	0.73	1002.54	397.84	0.06	0	0.01
LowerTrib	18378.7*	50-yr	85.25	172.45	196.3	6897.35	6903.32		6903.33	0.000101	0.83	1061.39	405.73	0.06	0	0.02
LowerTrib	18378.7*	100-yr	109.13	202.84	246.03	6897.35	6903.58		6903.58	0.000117	0.92	1164.65	414.01	0.07	0.01	0.02
LowerTrib	18335.8*	2-yr		92.09	12.91	6896.95	6900.24		6900.25	0.000535	1.14	123.53	108.03	0.18	0.02	0.04
LowerTrib	18335.8*	5-yr	18.9	93	74.1	6896.95	6902.28		6902.28	0.000063	0.58	614.54	323.58	0.06	0	0.01
LowerTrib	18335.8*	10-yr	29.58	111.73	104.69	6896.95	6902.66		6902.66	0.000068	0.63	738.97	334.19	0.05	0	0.01
LowerTrib	18335.8*	25-yr	54.25	154.98	170.77	6896.95	6903.17		6903.18	0.00009	0.78	913.86	346.88	0.06	0	0.01
LowerTrib	18335.8*	50-yr	67.68	180.37	205.94	6896.95	6903.32		6903.32	0.000111	0.89	965.33	371.98	0.07	0.01	0.02
LowerTrib	18335.8*	100-yr	92.55	221.86	243.59	6896.95	6903.57		6903.58	0.000142	1.04	1061.93	396.08	0.08	0.01	0.02
LowerTrib	18292.9*	2-yr		93.36	11.64	6896.56	6900.22		6900.23	0.000406	1.09	129.33	105.01	0.16	0.02	0.03
LowerTrib	18292.9*	5-yr	14.03	102.59	69.39	6896.56	6902.28		6902.28	0.000075	0.65	559.17	313.6	0.07	0.01	0.01
LowerTrib	18292.9*	10-yr	23.56	121.63	100.81	6896.56	6902.66		6902.66	0.000079	0.7	679.38	321.55	0.06	0.01	0.01
LowerTrib	18292.9*	25-yr	43.62	166.47	169.91	6896.56	6903.17		6903.17	0.000105	0.87	847.44	335.78	0.07	0.02	0.02
LowerTrib	18292.9*	50-yr	54.21	193.12	206.67	6896.56	6903.31		6903.32	0.000129	0.98	895.95	340.28	0.08	0.03	0.02
LowerTrib	18292.9*	100-yr	71.85	225.91	260.24	6896.56	6903.56		6903.57	0.000152	1.1	981.13	345.27	0.08	0.04	0.03
LowerTrib	18250.1	2-yr		105		6896.16	6900.18	6897.33	6900.21	0.000443	1.33	79.08	102.75	0.13		0.09
LowerTrib	18250.1	5-yr		170.98	15.02	6896.16	6902.24	6897.77	6902.27	0.000233	1.33	190.06	282.61	0.17		0.03
LowerTrib	18250.1	10-yr		215.9	30.1	6896.16	6902.61	6898.07	6902.65	0.000298	1.57	232.83	309.24	0.19		0.03
LowerTrib	18250.1	25-yr		308.17	71.83	6896.16	6903.1	6898.65	6903.15	0.000464	2.07	297.32	320.9	0.22		0.06
LowerTrib	18250.1	50-yr		360.25	93.75	6896.16	6903.22	6898.94	6903.29	0.000593	2.37	314.13	324.44	0.25		0.08
LowerTrib	18250.1	100-yr		425.71	132.29	6896.16	6903.44	6899.3	6903.53	0.000738	2.71	344.9	331.33	0.27		0.11
LowerTrib	18205.02		Culvert													
LowerTrib	18166.18	2-yr		105		6894.83	6896.92	6896.03	6897.06	0.004657	2.92	35.92	22.56	0.38	0.16	0.5
LowerTrib	18166.18	5-yr	5.49	178.67	1.84	6894.83	6898.76	6896.5	6898.83	0.001194	2.15	100.21	75.11	0.32	0.08	0.1
LowerTrib	18166.18	10-yr	14.17	194.17	37.66	6894.83	6900.01	6896.79	6900.05	0.000498	1.71	217.86	104.38	0.19	0.05	0.06
LowerTrib	18166.18	25-yr	29.06	241.58	109.37	6894.83	6901.53	6897.38	6901.56	0.000303	1.61	398.93	133.51	0.13	0.05	0.05
LowerTrib	18166.18	50-yr	34.76	288.24	131	6894.83	6901.54	6897.65	6901.58	0.000428	1.91	400.3	133.7	0.16	0.07	0.08
LowerTrib	18166.18	100-yr	42.82	353.36	161.81	6894.83	6901.56	6898.03	6901.62	0.000637	2.34	402.98	134.06	0.2	0.11	0.12

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	18119.34	2-yr		105		6892.33	6896.8	6894.24	6896.9	0.002118	2.49	42.18	11.39	0.23		0.32
LowerTrib	18119.34	5-yr		186		6892.33	6898.65	6894.96	6898.74	0.002118	2.52	73.77	24.34	0.25		0.33
LowerTrib	18119.34	10-yr		246		6892.33	6899.92	6895.45	6900	0.001315	2.34	105.04	71.41	0.21		0.26
LowerTrib	18119.34	25-yr		380		6892.33	6901.4	6896.33	6901.51	0.001105	2.65	143.66	283.58	0.2		0.3
LowerTrib	18119.34	50-yr		454		6892.33	6901.35	6896.79	6901.51	0.001625	3.19	142.38	276.78	0.24		0.44
LowerTrib	18119.34	100-yr		558		6892.33	6901.26	6897.72	6901.51	0.002593	3.98	140.07	264.88	0.3		0.69
LowerTrib	18092.76		Culvert													
LowerTrib	18065.8	2-yr		105		6892.37	6895.24	6894.53	6895.48	0.015141	3.93	26.74	20.24	0.5	0.72	1.74
LowerTrib	18065.8	5-yr		186		6892.37	6895.96	6895.11	6896.35	0.016444	5.06	36.76	26.68	0.55	0.89	2.6
LowerTrib	18065.8	10-yr		246		6892.37	6896.3	6895.42	6896.84	0.019077	5.92	41.58	33.27	0.61	1.04	3.41
LowerTrib	18065.8	25-yr		380		6892.37	6896.81	6896.19	6897.75	0.026934	7.81	48.67	52.11	0.74	1.4	5.64
LowerTrib	18065.8	50-yr		454		6892.37	6896.99	6896.55	6898.21	0.0324	8.86	51.23	58.12	0.82	1.63	7.14
LowerTrib	18065.8	100-yr		558		6892.37	6897.19	6897.03	6898.85	0.041051	10.33	54.01	64.62	0.93	1.98	9.54
LowerTrib	18019.2*	2-yr		105		6891.79	6894.59		6894.75	0.014413	3.25	32.32	21.66	0.47	0.73	1.3
LowerTrib	18019.2*	5-yr	0.05	185.95		6891.79	6895.25		6895.46	0.017889	3.7	50.4	35.58	0.55	0.86	1.54
LowerTrib	18019.2*	10-yr	1.91	244.09		6891.79	6895.56		6895.81	0.019034	3.98	63.44	47.63	0.61	0.9	1.55
LowerTrib	18019.2*	25-yr	14.88	365.12		6891.79	6896.04		6896.35	0.020344	4.52	90.19	63.56	0.66	0.97	1.77
LowerTrib	18019.2*	50-yr	25.08	428.92		6891.79	6896.24		6896.58	0.020803	4.81	102.83	68.15	0.67	0.98	1.93
LowerTrib	18019.2*	100-yr	41.35	516.65		6891.79	6896.47		6896.86	0.021568	5.17	121.18	80.91	0.72	0.99	1.99
LowerTrib	17972.7*	2-yr		105		6891.2	6893.88		6894.03	0.016713	3.09	34.02	27.89	0.49	0.89	1.24
LowerTrib	17972.7*	5-yr	1.5	184.5		6891.2	6894.4		6894.6	0.019015	3.6	53.09	46.23	0.59	0.98	1.34
LowerTrib	17972.7*	10-yr	6.24	239.76		6891.2	6894.67		6894.9	0.019657	3.89	66.63	55.81	0.62	1.01	1.44
LowerTrib	17972.7*	25-yr	22.11	357.89		6891.2	6895.07		6895.38	0.021428	4.57	91.9	72.39	0.7	1.02	1.68
LowerTrib	17972.7*	50-yr	38.62	415.38		6891.2	6895.27		6895.6	0.021206	4.78	106.44	75.5	0.68	1.04	1.84
LowerTrib	17972.7*	100-yr	62.26	495.74	0	6891.2	6895.51		6895.87	0.020755	5.07	125.54	80.96	0.68	1.06	1.99
LowerTrib	17926.2*	2-yr	0.02	104.98		6890.62	6892.98		6893.14	0.022187	3.15	33.36	34.94	0.57	0.79	1.31
LowerTrib	17926.2*	5-yr	3.66	182.34		6890.62	6893.41		6893.62	0.023636	3.76	51.74	51.49	0.65	0.86	1.47
LowerTrib	17926.2*	10-yr	8.53	237.47		6890.62	6893.63		6893.89	0.024133	4.14	64.05	63.15	0.71	0.87	1.51
LowerTrib	17926.2*	25-yr	34.33	345.67	0	6890.62	6894.05		6894.36	0.022474	4.62	92.22	71.53	0.69	0.95	1.79
LowerTrib	17926.2*	50-yr	48.61	405.35	0.04	6890.62	6894.2		6894.56	0.023561	5	103.25	75.12	0.72	0.95	2
LowerTrib	17926.2*	100-yr	69.08	488.68	0.24	6890.62	6894.39		6894.81	0.025002	5.48	118.28	83	0.77	0.96	2.21
LowerTrib	17879.6*	2-yr	2.4	102.6		6890.04	6892.25	6891.69	6892.35	0.012771	2.51	43.86	50.94	0.47	1.25	0.68
LowerTrib	17879.6*	5-yr	12.67	173.32	0.01	6890.04	6892.62	6892.08	6892.76	0.014233	3.15	65.05	63.01	0.53	1.25	0.91
LowerTrib	17879.6*	10-yr	23.43	222.45	0.11	6890.04	6892.84	6892.32	6893.01	0.014313	3.49	80.05	70.97	0.56	1.26	1
LowerTrib	17879.6*	25-yr	45.96	333.17	0.87	6890.04	6893.14	6892.65	6893.41	0.018413	4.42	105.15	100.46	0.72	1.27	1.2
LowerTrib	17879.6*	50-yr	75.09	377.08	1.83	6890.04	6893.33	6892.86	6893.61	0.017076	4.54	125.25	105.39	0.68	1.29	1.26

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	17879.6*	100-yr	118.27	435.7	4.02	6890.04	6893.57	6892.98	6893.85	0.01595	4.72	151.21	111.39	0.65	1.3	1.35
LowerTrib	17833.1*	2-yr	0.1	104.9		6889.45	6890.77	6890.77	6891.1	0.0824	4.64	22.76	37.33	1.05	0.84	3.12
LowerTrib	17833.1*	5-yr	6.18	179.82	0	6889.45	6891.1	6891.1	6891.51	0.064629	5.2	38.12	52.47	1.06	0.89	2.92
LowerTrib	17833.1*	10-yr	14.17	231.74	0.09	6889.45	6891.27	6891.27	6891.75	0.063722	5.74	47.15	59.78	1.11	0.95	3.13
LowerTrib	17833.1*	25-yr	57.25	321.46	1.29	6889.45	6891.67	6891.67	6892.13	0.043121	5.82	79.19	84	0.99	0.95	2.53
LowerTrib	17833.1*	50-yr	77.13	374.95	1.92	6889.45	6891.75	6891.75	6892.31	0.049601	6.45	85.84	85.18	1.05	1.03	3.11
LowerTrib	17833.1*	100-yr	104.22	450.53	3.25	6889.45	6891.88	6891.85	6892.56	0.055686	7.19	96.75	92.5	1.14	1.14	3.62
LowerTrib	17786.62	2-yr	26.73	66.92	0.35	6888.87	6890.21		6890.25	0.006133	1.79	65.12	83.97	0.32	0.54	0.3
LowerTrib	17786.62	5-yr	58.42	110.51	1.08	6888.87	6890.54		6890.6	0.007173	2.29	94.45	96.08	0.36	0.59	0.44
LowerTrib	17786.62	10-yr	81.64	136.69	1.67	6888.87	6890.7		6890.77	0.007666	2.55	110.57	100.12	0.37	0.64	0.53
LowerTrib	17786.62	25-yr	145.59	201.03	3.38	6888.87	6890.99		6891.1	0.009547	3.17	139.91	102.58	0.41	0.6	0.81
LowerTrib	17786.62	50-yr	182.22	233.28	4.51	6888.87	6891.14		6891.28	0.009897	3.41	155.89	103.89	0.42	0.57	0.92
LowerTrib	17786.62	100-yr	214.23	260.19	5.58	6888.87	6891.27		6891.42	0.010072	3.58	169.2	104.97	0.42	0.55	1.01
LowerTrib	17750.22	2-yr	26.57	67.43		6888.41	6889.51	6889.51	6889.72	0.06475	4.15	29.45	71.47	1.01	0.33	1.66
LowerTrib	17750.22	5-yr	66.25	103.75		6888.41	6889.74	6889.74	6890	0.059571	4.74	47.73	85.57	0.95	0.35	2.07
LowerTrib	17750.22	10-yr	94.12	125.88		6888.41	6889.83	6889.83	6890.13	0.064788	5.22	55.35	86.58	0.97	0.37	2.58
LowerTrib	17750.22	25-yr	184.61	165.21	0.18	6888.41	6890.26		6890.51	0.032519	4.71	93.39	89.46	0.69	0.29	2.11
LowerTrib	17750.22	50-yr	231.15	188.29	0.57	6888.41	6890.46		6890.71	0.026905	4.68	111.36	91.16	0.63	0.27	2.04
LowerTrib	17750.22	100-yr	270.59	208.25	1.16	6888.41	6890.62		6890.87	0.023965	4.71	125.82	92.79	0.6	0.26	2.02
LowerTrib	17731.24	2-yr	11.23	82.65	0.12	6885.62	6888.92		6889.03	0.006993	2.85	44.43	64.45	0.57	0.55	0.29
LowerTrib	17731.24	5-yr	52.19	116.67	1.15	6885.62	6889.38		6889.51	0.007569	3.36	79.57	83.79	0.52	0.57	0.44
LowerTrib	17731.24	10-yr	84.99	132.81	2.2	6885.62	6889.61		6889.74	0.007508	3.53	99.05	87.12	0.48	0.59	0.52
LowerTrib	17731.24	25-yr	174.21	169.94	5.85	6885.62	6890.08		6890.22	0.007538	3.89	141.4	93.52	0.43	0.61	0.7
LowerTrib	17731.24	50-yr	224.16	187.55	8.29	6885.62	6890.28		6890.43	0.007537	4.05	161.12	95.22	0.42	0.62	0.78
LowerTrib	17731.24	100-yr	267.25	202.12	10.64	6885.62	6890.45		6890.6	0.007556	4.18	176.85	96.56	0.41	0.62	0.85
LowerTrib	17651.3	2-yr	39.86	52.37	1.77	6886.43	6888.43		6888.49	0.006317	2.25	58.63	67.17	0.35	4.14	0.34
LowerTrib	17651.3	5-yr	84.03	78.46	7.51	6886.43	6888.87		6888.94	0.006272	2.64	89.66	75.05	0.34	4.21	0.46
LowerTrib	17651.3	10-yr	113.08	95.81	11.12	6886.43	6889.06		6889.15	0.006869	2.94	104.69	82.02	0.37	4.28	0.54
LowerTrib	17651.3	25-yr	185.67	135.04	29.29	6886.43	6889.49	6888.62	6889.6	0.007608	3.48	140.8	89.22	0.39	4.5	0.74
LowerTrib	17651.3	50-yr	224.49	154.74	40.77	6886.43	6889.68	6888.75	6889.81	0.007878	3.72	158.44	92.82	0.4	4.63	0.83
LowerTrib	17651.3	100-yr	256.88	170.54	52.58	6886.43	6889.84	6888.87	6889.98	0.007994	3.88	173.08	94.5	0.4	4.71	0.91
LowerTrib	17350.22	2-yr		94		6882.76	6884.14		6884.33	0.049432	3.58	26.27	39.56	0.77	5.68	2.04
LowerTrib	17350.22	5-yr		169.11	0.89	6882.76	6884.44	6884.32	6884.72	0.053436	4.26	41.46	93.44	1.12	5.69	1.48
LowerTrib	17350.22	10-yr	0.6	203.06	16.34	6882.76	6884.61	6884.61	6884.86	0.044653	4.21	62.69	152.09	1.11	5.22	1.15
LowerTrib	17350.22	25-yr	14.17	275.98	59.85	6882.76	6884.83	6884.83	6885.1	0.04141	4.55	103.69	206.42	1.03	5.05	1.3
LowerTrib	17350.22	50-yr	25.64	312.16	82.2	6882.76	6884.91	6884.91	6885.19	0.041754	4.8	120.58	212.93	1	4.97	1.47

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	17350.22	100-yr	35.88	342.8	101.31	6882.76	6884.97	6884.97	6885.27	0.042889	5.02	132.99	217.65	0.99	4.96	1.63
LowerTrib	16950.22	2-yr	4.97	58.69	30.34	6876.85	6878.62		6878.65	0.006553	1.69	65.9	90.26	0.32	4.56	0.3
LowerTrib	16950.22	5-yr	18.3	97.18	54.52	6876.85	6878.98		6879.03	0.00635	2.05	101.29	102.36	0.32	4.52	0.39
LowerTrib	16950.22	10-yr	29.96	120.49	69.56	6876.85	6879.19		6879.24	0.006039	2.2	122.9	105.62	0.31	4.52	0.44
LowerTrib	16950.22	25-yr	62.08	178.97	108.95	6876.85	6879.61		6879.69	0.005925	2.57	171.16	140.5	0.35	4.44	0.45
LowerTrib	16950.22	50-yr	80.15	208.21	131.64	6876.85	6879.82	6878.83	6879.9	0.005771	2.71	203.4	174.17	0.37	4.43	0.42
LowerTrib	16950.22	100-yr	103.88	245.41	130.7	6876.85	6880.05		6880.14	0.005699	2.88	248.06	199.92	0.37	4.48	0.44
LowerTrib	16550.22	2-yr	0.8	92.91	0.29	6872.76	6873.95		6874.09	0.024454	3.01	31.96	41.17	0.6	3.78	1.18
LowerTrib	16550.22	5-yr	4.13	164.26	1.61	6872.76	6874.29		6874.51	0.025209	3.82	46.8	45.69	0.66	3.64	1.61
LowerTrib	16550.22	10-yr	7.04	210.15	2.81	6872.76	6874.45		6874.73	0.027833	4.34	53.87	47.7	0.71	3.61	1.95
LowerTrib	16550.22	25-yr	18.28	323.92	7.8	6872.76	6874.86		6875.24	0.027271	5.13	74.83	54.16	0.75	3.68	2.34
LowerTrib	16550.22	50-yr	25.61	384.33	10.06	6872.76	6875.02		6875.47	0.028508	5.56	84.07	58.2	0.79	3.74	2.56
LowerTrib	16550.22	100-yr	32.32	435.82	11.86	6872.76	6875.14		6875.65	0.030407	5.97	90.8	62.02	0.84	3.79	2.77
LowerTrib	16407.75	2-yr		94		6868.86	6870.14	6869.86	6870.31	0.028702	3.34	28.14	31.23	0.62	0.86	1.6
LowerTrib	16407.75	5-yr	0.04	169.96		6868.86	6870.69	6870.23	6870.88	0.025679	3.48	48.99	49.51	0.62	0.76	1.58
LowerTrib	16407.75	10-yr	1.1	218.9		6868.86	6870.91	6870.46	6871.12	0.022821	3.68	60.88	56.61	0.62	0.68	1.52
LowerTrib	16407.75	25-yr	11.9	338.1		6868.86	6871.27	6870.88	6871.56	0.024067	4.37	89.49	112.04	0.85	0.79	1.2
LowerTrib	16407.75	50-yr	28.34	391.64	0.02	6868.86	6871.43	6871.03	6871.73	0.023615	4.61	109.38	144.38	0.9	0.81	1.11
LowerTrib	16407.75	100-yr	50.47	429.43	0.1	6868.86	6871.54	6871.27	6871.86	0.022726	4.73	126.7	150.88	0.86	0.81	1.19
LowerTrib	16357.76	2-yr		94		6867.68	6869.36		6869.46	0.010911	2.43	38.66	33.33	0.4	0.34	0.78
LowerTrib	16357.76	5-yr	0.07	169.88	0.04	6867.68	6870		6870.11	0.00959	2.7	63.54	63.31	0.47	0.36	0.6
LowerTrib	16357.76	10-yr	12.27	206.82	0.91	6867.68	6870.34		6870.44	0.008321	2.6	98.19	119.3	0.49	0.35	0.43
LowerTrib	16357.76	25-yr	43.71	303.38	2.91	6867.68	6870.63		6870.77	0.01021	3.22	134.87	135.78	0.54	0.33	0.63
LowerTrib	16357.76	50-yr	65.05	350.56	4.39	6867.68	6870.77		6870.93	0.010606	3.45	155.24	147.07	0.55	0.34	0.7
LowerTrib	16357.76	100-yr	85.48	388.76	5.76	6867.68	6870.88		6871.05	0.010956	3.63	171.54	154.57	0.56	0.35	0.76
LowerTrib	16337.02	2-yr	1.9	91.08	1.02	6866.75	6868.84	6868.48	6869.11	0.024392	4.24	23.36	19.96	0.68	2.52	1.73
LowerTrib	16337.02	5-yr	7.95	158.38	3.67	6866.75	6869.29	6869.03	6869.75	0.029991	5.63	34.3	29.77	0.9	2.74	2.11
LowerTrib	16337.02	10-yr	14.04	198.93	7.03	6866.75	6869.52	6869.32	6870.09	0.032535	6.32	44.79	84.94	1.46	2.86	1.06
LowerTrib	16337.02	25-yr	86.22	236.44	27.35	6866.75	6870.03	6870.03	6870.44	0.022561	6.07	98.51	120	0.99	2.1	1.15
LowerTrib	16337.02	50-yr	121.96	261.43	36.6	6866.75	6870.17	6870.17	6870.59	0.023472	6.39	114.91	127.84	0.97	2.14	1.31
LowerTrib	16337.02	100-yr	155.78	279.16	45.06	6866.75	6870.28	6870.28	6870.7	0.023396	6.56	130.05	134.9	0.94	2.13	1.4
LowerTrib	16267.61	2-yr	0.79	91.12	2.08	6865.2	6866.28	6866.26	6866.59	0.0595	4.48	22.5	38.59	1.02	3.46	2.16
LowerTrib	16267.61	5-yr	3.63	152.28	14.09	6865.2	6866.61	6866.61	6867.01	0.0533	5.32	37.39	52.2	1.06	3.15	2.38
LowerTrib	16267.61	10-yr	5.79	188.36	25.84	6865.2	6866.77	6866.77	6867.23	0.052559	5.77	46.18	58.54	1.07	3.02	2.58
LowerTrib	16267.61	25-yr	19.24	264.97	65.78	6865.2	6867.17	6867.17	6867.65	0.042243	6.19	75.15	85.06	1.04	2.74	2.33
LowerTrib	16267.61	50-yr	30.52	302.46	87.02	6865.2	6867.32	6867.32	6867.83	0.041826	6.51	88.14	93.47	1.04	2.74	2.46

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	16267.61	100-yr	41.73	332.61	105.66	6865.2	6867.43	6867.43	6867.97	0.041378	6.74	99.2	100.22	1.04	2.75	2.55
LowerTrib	16120.9	2-yr		94		6861.77	6863.08		6863.13	0.012177	1.8	52.23	77.31	0.39	4.03	0.51
LowerTrib	16120.9	5-yr		170		6861.77	6863.46		6863.52	0.010944	1.86	91.46	119.16	0.37	4.18	0.52
LowerTrib	16120.9	10-yr		220		6861.77	6863.62		6863.68	0.010297	2	110.24	123.3	0.37	4.09	0.57
LowerTrib	16120.9	25-yr	0.02	349.98		6861.77	6863.94		6864.02	0.009821	2.31	151.71	133	0.38	4.01	0.7
LowerTrib	16120.9	50-yr	0.16	418.9	0.94	6861.77	6864.08		6864.18	0.009794	2.46	173.81	179.76	0.44	3.96	0.59
LowerTrib	16120.9	100-yr	0.34	475.73	3.93	6861.77	6864.18		6864.28	0.009911	2.59	191.21	183.76	0.45	3.88	0.64
LowerTrib	15716.56	2-yr	25.78	80.16	8.06	6857.83	6859.05		6859.09	0.00857	1.87	101	161.6	0.36	1.85	0.33
LowerTrib	15716.56	5-yr	49.75	125.71	17.54	6857.83	6859.28		6859.34	0.009848	2.33	141.71	189.68	0.39	1.74	0.46
LowerTrib	15716.56	10-yr	77.03	171.04	25.93	6857.83	6859.51		6859.59	0.009979	2.64	192.16	259.72	0.44	1.68	0.46
LowerTrib	15716.56	25-yr	135.76	260.89	77.34	6857.83	6859.91		6860.01	0.010004	3.13	306.19	298.88	0.42	1.52	0.64
LowerTrib	15716.56	50-yr	168.56	305.9	114.53	6857.83	6860.11		6860.2	0.00981	3.32	364.6	308.53	0.41	1.45	0.72
LowerTrib	15716.56	100-yr	205.21	349.43	157.36	6857.83	6860.3		6860.4	0.009397	3.46	424.44	311.7	0.39	1.38	0.8
LowerTrib	15294	2-yr		114		6855.75	6857.22		6857.23	0.002637	0.92	123.75	159.02	0.18	0.45	0.13
LowerTrib	15294	5-yr		193		6855.75	6857.59		6857.6	0.002231	1.05	184.23	172.18	0.18	0.46	0.15
LowerTrib	15294	10-yr		273.79	0.21	6855.75	6857.88		6857.9	0.002097	1.15	239.3	203.52	0.19	0.47	0.15
LowerTrib	15294	25-yr		462.34	11.66	6855.75	6858.45		6858.48	0.001808	1.34	395.29	321.62	0.21	0.49	0.14
LowerTrib	15294	50-yr		562.44	26.56	6855.75	6858.73		6858.76	0.001692	1.42	484.45	331.19	0.2	0.49	0.15
LowerTrib	15294	100-yr		666.34	45.66	6855.75	6858.99		6859.02	0.001609	1.5	571.8	336.38	0.2	0.5	0.17
LowerTrib	14892.58	2-yr	0.07	113.82	0.12	6855.52	6856.79		6856.79	0.000606	0.55	207.45	198.35	0.1	0.22	0.04
LowerTrib	14892.58	5-yr	0.37	191.97	0.65	6855.52	6857.14		6857.15	0.000679	0.71	279	207.18	0.11	0.25	0.06
LowerTrib	14892.58	10-yr	0.91	271.49	1.6	6855.52	6857.42		6857.44	0.000746	0.84	338.81	213.05	0.12	0.28	0.07
LowerTrib	14892.58	25-yr	2.71	465.98	5.31	6855.52	6857.97		6857.99	0.000878	1.09	459	225.54	0.13	0.34	0.11
LowerTrib	14892.58	50-yr	3.99	576.69	8.31	6855.52	6858.24		6858.26	0.000931	1.21	519.85	231.73	0.14	0.36	0.13
LowerTrib	14892.58	100-yr	5.51	694.33	12.15	6855.52	6858.5		6858.52	0.000978	1.32	580.24	237.69	0.15	0.38	0.15
LowerTrib	14651.45	2-yr	27.66	86.29	0.05	6854.86	6856.56		6856.57	0.001563	0.9	174.73	182.7	0.14	0.55	0.09
LowerTrib	14651.45	5-yr	50.51	141.89	0.6	6854.86	6856.88		6856.89	0.001833	1.16	234.02	189	0.16	0.63	0.14
LowerTrib	14651.45	10-yr	74.34	198	1.67	6854.86	6857.13		6857.15	0.002077	1.37	282.08	191.07	0.17	0.7	0.19
LowerTrib	14651.45	25-yr	134.21	334.47	5.32	6854.86	6857.62		6857.66	0.002544	1.8	376.06	195.03	0.2	0.76	0.31
LowerTrib	14651.45	50-yr	169.13	411.96	7.91	6854.86	6857.86		6857.9	0.002725	1.99	422.96	196.98	0.21	0.77	0.36
LowerTrib	14651.45	100-yr	206.69	494.33	10.98	6854.86	6858.09		6858.14	0.002888	2.18	468.96	198.87	0.22	0.77	0.42
LowerTrib	14543.94	2-yr		109.63	4.37	6854.55	6855.83	6855.83	6856.03	0.094251	3.61	34.96	99.37	1.05		2.06
LowerTrib	14543.94	5-yr		180.79	12.21	6854.55	6855.99	6855.99	6856.26	0.089795	4.28	51.1	103.94	1.04		2.74
LowerTrib	14543.94	10-yr	0.01	252.86	21.14	6854.55	6856.13	6856.13	6856.46	0.085205	4.78	65.62	107.7	1.04		3.23
LowerTrib	14543.94	25-yr	0.96	425.12	47.91	6854.55	6856.55		6856.9	0.048743	4.98	112.89	118.16	0.86		2.89
LowerTrib	14543.94	50-yr	2.55	522.99	63.46	6854.55	6856.78		6857.14	0.039156	5.06	140.6	122.59	0.79		2.79

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	14543.94	100-yr	4.67	623.59	83.73	6854.55	6857		6857.37	0.033322	5.18	167.91	124.39	0.74		2.79
LowerTrib	14439.95	2-yr		26		6854.91	6855.67		6855.73	0.025178	1.9	13.66	32.1	0.51	1.14	0.67
LowerTrib	14439.95	5-yr	0	46.99	0.01	6854.91	6855.86		6855.94	0.026745	2.34	20.13	37.19	0.56	1.14	0.9
LowerTrib	14439.95	10-yr	0.09	80.8	0.11	6854.91	6856.06	6855.83	6856.2	0.027969	2.94	27.87	39.22	0.61	1.16	1.24
LowerTrib	14439.95	25-yr	1.5	197.16	1.34	6854.91	6856.55		6856.84	0.031701	4.37	48.16	43.91	0.73	1.26	2.16
LowerTrib	14439.95	50-yr	3.3	283.88	2.82	6854.91	6856.78		6857.21	0.037343	5.31	58.5	45.97	0.82	1.34	2.95
LowerTrib	14439.95	100-yr	6	379.1	4.91	6854.91	6857	6856.82	6857.58	0.041789	6.16	68.88	47.89	0.89	1.44	3.73
LowerTrib	14413.05	2-yr		26		6854.04	6854.48	6854.45	6854.6	0.081144	2.78	9.37	30.1	0.88	0.37	1.58
LowerTrib	14413.05	5-yr		47		6854.04	6854.64	6854.6	6854.8	0.072594	3.18	14.8	35.71	0.87	0.37	1.88
LowerTrib	14413.05	10-yr		81		6854.04	6854.83	6854.79	6855.04	0.070982	3.66	22.12	42.4	0.89	0.36	2.31
LowerTrib	14413.05	25-yr		200		6854.04	6855.24	6855.22	6855.59	0.074053	4.69	42.66	58.27	0.97	0.36	3.38
LowerTrib	14413.05	50-yr	0.03	289.92	0.05	6854.04	6855.48	6855.44	6855.87	0.067093	5.03	57.98	77.92	1.03	0.36	3.11
LowerTrib	14413.05	100-yr	0.26	387.62	2.12	6854.04	6855.65	6855.65	6856.14	0.066834	5.64	72.03	88.42	1.1	0.32	3.39
LowerTrib	14408.1*	2-yr		26		6853.64	6854.13		6854.24	0.065951	2.61	9.96	30.05	0.8	0.37	1.36
LowerTrib	14408.1*	5-yr		47		6853.64	6854.27	6854.23	6854.44	0.075691	3.24	14.48	34.93	0.89	0.37	1.96
LowerTrib	14408.1*	10-yr		81		6853.64	6854.46	6854.42	6854.68	0.075396	3.77	21.49	41.26	0.92	0.35	2.45
LowerTrib	14408.1*	25-yr	0	200		6853.64	6854.92	6854.86	6855.23	0.06577	4.5	44.5	59.75	0.92	0.36	3.05
LowerTrib	14408.1*	50-yr	0.14	289.22	0.64	6853.64	6855.08	6855.08	6855.52	0.072144	5.35	55.49	75.33	1.1	0.33	3.31
LowerTrib	14408.1*	100-yr	0.88	384.96	4.16	6853.64	6855.3	6855.29	6855.8	0.061924	5.73	73.78	100.35	1.17	0.3	2.84
LowerTrib	14403.2*	2-yr		26		6853.23	6853.74	6853.71	6853.86	0.082589	2.86	9.09	28.31	0.89	0.35	1.65
LowerTrib	14403.2*	5-yr		47		6853.23	6853.91	6853.87	6854.07	0.072856	3.23	14.56	34.37	0.87	0.36	1.92
LowerTrib	14403.2*	10-yr		81		6853.23	6854.12		6854.32	0.065062	3.6	22.5	41.42	0.86	0.37	2.2
LowerTrib	14403.2*	25-yr	0.05	199.88	0.07	6853.23	6854.5	6854.49	6854.87	0.074636	4.89	41.26	61.27	1.05	0.31	3.13
LowerTrib	14403.2*	50-yr	0.75	286.23	3.02	6853.23	6854.79	6854.71	6855.19	0.053729	5.11	61.57	89.76	1.08	0.25	2.3
LowerTrib	14403.2*	100-yr	10.05	363.87	16.08	6853.23	6855.16	6854.96	6855.5	0.031525	4.79	106.97	147.32	0.96	0.17	1.43
LowerTrib	14398.3*	2-yr		26		6852.83	6853.41		6853.51	0.05832	2.55	10.19	29.01	0.76	0.38	1.28
LowerTrib	14398.3*	5-yr		47		6852.83	6853.54	6853.5	6853.71	0.073966	3.29	14.27	33.1	0.88	0.35	1.99
LowerTrib	14398.3*	10-yr		81		6852.83	6853.72	6853.7	6853.96	0.080756	3.9	20.77	39.9	0.95	0.3	2.62
LowerTrib	14398.3*	25-yr	1.3	196.53	2.18	6852.83	6854.29	6854.13	6854.56	0.03884	4.2	52.57	81.99	0.92	0.17	1.55
LowerTrib	14398.3*	50-yr	12.96	265.26	11.77	6852.83	6854.71		6854.94	0.022347	4.01	98.09	131.29	0.78	0.12	1.04
LowerTrib	14398.3*	100-yr	33.77	324.9	31.33	6852.83	6855.14		6855.33	0.013974	3.78	160.43	161.99	0.61	0.08	0.86
LowerTrib	14393.4*	2-yr		26		6852.43	6852.99	6852.97	6853.14	0.096561	3.11	8.35	25.73	0.96	0.23	1.95
LowerTrib	14393.4*	5-yr		47		6852.43	6853.21		6853.36	0.064388	3.14	14.95	33.48	0.83	0.17	1.79
LowerTrib	14393.4*	10-yr	0.06	80.9	0.04	6852.43	6853.51		6853.66	0.036327	3.07	26.72	46.07	0.71	0.12	1.31
LowerTrib	14393.4*	25-yr	13.82	178.53	7.65	6852.43	6854.25		6854.39	0.014576	3.2	85.94	106.08	0.59	0.07	0.74
LowerTrib	14393.4*	50-yr	30.14	238.95	20.91	6852.43	6854.68		6854.82	0.010535	3.26	140.39	143.77	0.53	0.06	0.64

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	14393.4*	100-yr	58.02	291.67	40.32	6852.43	6855.12		6855.24	0.007708	3.22	207.64	163.17	0.44	0.04	0.61
LowerTrib	14388.5*	2-yr	0	26		6852.03	6852.86		6852.91	0.018164	1.71	15.17	33	0.45	0.04	0.52
LowerTrib	14388.5*	5-yr	0.6	46.25	0.15	6852.03	6853.14		6853.2	0.012119	1.89	27.13	54.54	0.47	0.04	0.38
LowerTrib	14388.5*	10-yr	4.21	75.43	1.36	6852.03	6853.47		6853.54	0.009379	2.13	47.58	71.23	0.44	0.04	0.39
LowerTrib	14388.5*	25-yr	25.64	162.36	12	6852.03	6854.22		6854.32	0.00722	2.68	115.55	109.09	0.42	0.03	0.48
LowerTrib	14388.5*	50-yr	47.51	216.67	25.82	6852.03	6854.67		6854.76	0.00622	2.88	166.86	122.21	0.38	0.03	0.53
LowerTrib	14388.5*	100-yr	74.84	269.55	45.61	6852.03	6855.1		6855.2	0.005336	3	220.71	124.5	0.34	0.04	0.59
LowerTrib	14383.59	2-yr	1.22	24.57	0.21	6851.63	6852.85	6852.26	6852.87	0.002877	1.04	29.49	46.5	0.22		0.11
LowerTrib	14383.59	5-yr	3.38	42.69	0.93	6851.63	6853.13	6852.44	6853.15	0.003482	1.38	43.58	55.01	0.26		0.17
LowerTrib	14383.59	10-yr	8.31	70.08	2.61	6851.63	6853.45	6852.63	6853.49	0.004093	1.76	62.7	62.39	0.29		0.26
LowerTrib	14383.59	25-yr	30.46	156.04	13.51	6851.63	6854.2	6853.13	6854.28	0.005201	2.6	116.16	77.11	0.33		0.49
LowerTrib	14383.59	50-yr	49.35	214.56	26.09	6851.63	6854.62	6853.44	6854.73	0.005484	3.01	149.25	78.29	0.34		0.65
LowerTrib	14383.59	100-yr	71.14	277.57	41.29	6851.63	6855.04	6853.73	6855.17	0.005671	3.37	181.71	79.43	0.34		0.8
LowerTrib	14364.16		Bridge													
LowerTrib	14346.1	2-yr	0.36	25.64		6851.63	6852.61	6852.3	6852.64	0.011224	1.52	17.93	35.98	0.38	0.6	0.35
LowerTrib	14346.1	5-yr	1.36	45.64		6851.63	6852.83	6852.46	6852.88	0.012493	1.9	26.6	41.49	0.41	0.61	0.5
LowerTrib	14346.1	10-yr	3.85	77.15		6851.63	6853.12	6852.67	6853.2	0.012618	2.26	39.48	46.99	0.42	0.61	0.66
LowerTrib	14346.1	25-yr	14.05	185.57	0.37	6851.63	6853.84	6853.15	6853.97	0.010851	2.94	77.89	59.22	0.44	0.54	0.89
LowerTrib	14346.1	50-yr	22.3	265.47	2.23	6851.63	6854.27	6853.43	6854.42	0.009753	3.28	104.78	65.25	0.44	0.48	0.97
LowerTrib	14346.1	100-yr	33.34	351.15	5.51	6851.63	6854.68	6853.65	6854.86	0.009052	3.59	132.5	69.12	0.44	0.41	1.08
LowerTrib	14306.18	2-yr		26	0	6851.03	6851.99		6852.04	0.020686	1.81	14.36	31.65	0.47	1.01	0.58
LowerTrib	14306.18	5-yr		46.93	0.07	6851.03	6852.2		6852.28	0.018809	2.22	21.29	32.59	0.48	0.97	0.76
LowerTrib	14306.18	10-yr		80.63	0.37	6851.03	6852.48		6852.59	0.017827	2.7	30.45	33.8	0.5	0.94	0.99
LowerTrib	14306.18	25-yr	0.79	196.27	2.94	6851.03	6853.22		6853.43	0.015454	3.65	58.78	46.24	0.57	0.8	1.2
LowerTrib	14306.18	50-yr	6.31	277.49	6.2	6851.03	6853.71		6853.95	0.013298	3.99	85.76	71.15	0.63	0.72	0.98
LowerTrib	14306.18	100-yr	26.06	354.41	9.53	6851.03	6854.21		6854.45	0.010769	4.13	131.22	101.88	0.61	0.62	0.86
LowerTrib	14253.14	2-yr		26		6850.42	6850.98	6850.74	6851.03	0.017582	1.84	14.12	26.09	0.44		0.58
LowerTrib	14253.14	5-yr		47		6850.42	6851.21	6850.91	6851.29	0.017899	2.32	20.3	26.72	0.47		0.82
LowerTrib	14253.14	10-yr		81		6850.42	6851.52	6851.11	6851.65	0.017551	2.81	28.78	27.56	0.49		1.1
LowerTrib	14253.14	25-yr		200		6850.42	6852.42	6851.68	6852.63	0.014789	3.67	54.46	29.96	0.48		1.57
LowerTrib	14253.14	50-yr	0	290		6850.42	6852.98	6852	6853.23	0.013548	4.05	71.62	31.54	0.47		1.77
LowerTrib	14253.14	100-yr	0.47	389.53		6850.42	6853.54	6852.35	6853.83	0.011983	4.36	90.27	34.86	0.48		1.77
LowerTrib	14215.6		Culvert													
LowerTrib	14171.71	2-yr		26		6843.01	6844.01	6844.01	6844.27	0.016364	4.07	6.39	12.19	0.99	1.34	0.53

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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	14171.71	5-yr		47		6843.01	6844.27	6844.27	6844.64	0.014563	4.84	9.72	12.97	0.98	1.21	0.66
LowerTrib	14171.71	10-yr		81		6843.01	6844.61	6844.61	6845.11	0.013493	5.68	14.27	13.96	0.99	1.12	0.83
LowerTrib	14171.71	25-yr		200		6843.01	6845.49	6845.49	6846.3	0.011806	7.25	27.59	16.49	0.99	1	1.15
LowerTrib	14171.71	50-yr		290		6843.01	6845.96	6845.96	6846.98	0.01178	8.1	35.79	17.88	1.01	0.97	1.36
LowerTrib	14171.71	100-yr		390		6843.01	6846.48	6846.48	6847.62	0.011083	8.58	45.43	19.75	1	0.94	1.46
LowerTrib	14092.03	2-yr		27		6839.98	6841.34	6841.34	6841.72	0.016399	4.96	5.45	7.29	1.01	6.53	0.71
LowerTrib	14092.03	5-yr		49		6839.98	6841.75	6841.75	6842.22	0.015067	5.52	8.88	9.54	1.01	6.04	0.81
LowerTrib	14092.03	10-yr		83		6839.98	6842.19	6842.19	6842.77	0.013947	6.08	13.65	11.98	1	5.57	0.92
LowerTrib	14092.03	25-yr		200		6839.98	6843.12	6843.12	6844.02	0.012593	7.62	26.23	14.85	1.01	5.01	1.26
LowerTrib	14092.03	50-yr		290		6839.98	6843.66	6843.66	6844.75	0.012022	8.38	34.62	16.22	1.01	4.74	1.44
LowerTrib	14092.03	100-yr		390		6839.98	6844.17	6844.17	6845.43	0.011565	9	43.34	17.53	1.01	4.59	1.59
LowerTrib	13692.03	2-yr		27		6832.6	6833.76	6833.76	6834.07	0.016128	4.45	6.06	9.88	1	3.32	0.6
LowerTrib	13692.03	5-yr		49		6832.6	6834.07	6834.07	6834.49	0.015053	5.19	9.44	11.51	1.01	3.66	0.74
LowerTrib	13692.03	10-yr		83		6832.6	6834.44	6834.44	6834.99	0.013873	5.98	13.88	12.72	1.01	3.88	0.9
LowerTrib	13692.03	25-yr		200		6832.6	6835.34	6835.34	6836.21	0.012414	7.49	26.7	15.69	1.01	4.36	1.23
LowerTrib	13692.03	50-yr		290		6832.6	6835.88	6835.88	6836.91	0.011574	8.12	35.73	17.49	1	3.54	1.36
LowerTrib	13692.03	100-yr		390		6832.6	6836.37	6836.37	6837.56	0.011289	8.73	44.67	19.1	1.01	3.49	1.51
LowerTrib	13292.03	2-yr		27		6827.81	6829.41		6829.54	0.004921	2.93	9.21	11.38	0.57	1.32	0.24
LowerTrib	13292.03	5-yr		49		6827.81	6829.74	6829.43	6829.95	0.005969	3.66	13.38	13.68	0.65	1.42	0.35
LowerTrib	13292.03	10-yr		83		6827.81	6830.1		6830.41	0.006931	4.42	18.76	16.17	0.72	1.51	0.48
LowerTrib	13292.03	25-yr		199.49	0.51	6827.81	6830.85	6830.67	6831.43	0.009275	6.1	34.1	37	1.12	1.66	0.52
LowerTrib	13292.03	50-yr	16.16	262.26	11.58	6827.81	6831.36	6831.36	6831.84	0.00642	5.84	83.83	148.43	1.3	1.33	0.22
LowerTrib	13292.03	100-yr	47.27	320.38	22.35	6827.81	6831.62	6831.62	6832.12	0.006256	6.28	123.21	161.68	1.15	1.28	0.3
LowerTrib	13137.37	2-yr		27		6827.12	6827.98	6827.98	6828.21	0.017977	3.87	6.97	15.53	1.02	4.44	0.5
LowerTrib	13137.37	5-yr		49		6827.12	6828.22	6828.22	6828.53	0.015729	4.44	11.03	18.09	1	4.16	0.59
LowerTrib	13137.37	10-yr		83		6827.12	6828.5	6828.5	6828.9	0.014656	5.06	16.4	20.93	1.01	3.65	0.71
LowerTrib	13137.37	25-yr	0.02	199.98		6827.12	6829.15	6829.15	6829.77	0.0125	6.31	31.75	26.38	1.01	3.31	0.93
LowerTrib	13137.37	50-yr	0.45	289.51	0.04	6827.12	6829.5	6829.5	6830.27	0.011528	7.08	41.57	29.27	1.05	3.09	1.01
LowerTrib	13137.37	100-yr	1.51	388.12	0.37	6827.12	6829.85	6829.85	6830.78	0.010559	7.75	52.41	34.64	1.11	2.92	0.98
LowerTrib	12892.03	2-yr	0.59	22.28	4.13	6823.22	6823.65	6823.65	6823.76	0.017937	2.82	15.27	86.04	1.08	3.59	0.2
LowerTrib	12892.03	5-yr	1.02	37.03	10.95	6823.22	6823.75	6823.75	6823.9	0.017905	3.46	24.04	89.92	1.04		0.3
LowerTrib	12892.03	10-yr	1.76	57.75	23.49	6823.22	6823.9	6823.87	6824.07	0.014569	3.88	37.34	91.65	0.91	4.95	0.37
LowerTrib	12892.03	25-yr	4.95	127.22	67.83	6823.22	6824.23	6824.17	6824.52	0.013717	5.23	68.47	95.59	0.89	4.48	0.61
LowerTrib	12892.03	50-yr	8.02	178.75	103.23	6823.22	6824.45	6824.37	6824.8	0.012677	5.85	89.67	98.17	0.87	4.27	0.72
LowerTrib	12892.03	100-yr	11.97	235.36	142.67	6823.22	6824.66	6824.55	6825.08	0.012108	6.44	110.61	100.88	0.87	4.12	0.83
LowerTrib	12554.37	2-yr		27		6817.03	6818.27		6818.41	0.007016	3.04	8.9	13.93	0.67	0.07	0.27

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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	12554.37	5-yr		49		6817.03	6818.37	6818.37	6818.72	0.015548	4.75	10.31	14.97	1.01	0.18	0.65
LowerTrib	12554.37	10-yr		83		6817.03	6818.69	6818.69	6819.13	0.014588	5.32	15.6	18.2	1.01	0.23	0.76
LowerTrib	12554.37	25-yr		200		6817.03	6819.42	6819.42	6820.04	0.012646	6.32	31.63	25.56	1	0.33	0.95
LowerTrib	12554.37	50-yr		290		6817.03	6819.82	6819.82	6820.53	0.012405	6.74	43	31.1	1.01	0.37	1.05
LowerTrib	12554.37	100-yr		390		6817.03	6820.18	6820.18	6820.96	0.012092	7.06	55.24	36.63	1.01	0.38	1.11
LowerTrib	12530.1*	2-yr		27		6815.3	6818.34		6818.34	0.000042	0.41	66.13	45.8	0.06	0	0
LowerTrib	12530.1*	5-yr		49		6815.3	6818.43		6818.44	0.000118	0.7	70.44	47.53	0.1	0	0.01
LowerTrib	12530.1*	10-yr		83		6815.3	6818.53		6818.55	0.000289	1.1	75.38	49.83	0.16	0.01	0.03
LowerTrib	12530.1*	25-yr	0	199.95	0.05	6815.3	6818.75		6818.83	0.001073	2.31	86.83	53.54	0.32	0.04	0.11
LowerTrib	12530.1*	50-yr	0	289.79	0.21	6815.3	6818.87		6819.02	0.001791	3.13	93.5	55.37	0.42	0.07	0.19
LowerTrib	12530.1*	100-yr	0.01	389.5	0.49	6815.3	6818.97		6819.22	0.002731	4	98.9	56.81	0.53	0.11	0.29
LowerTrib	12505.9*	2-yr	0	26.58	0.42	6813.57	6818.34		6818.34	0.000002	0.15	193.67	66.94	0.02	0	0
LowerTrib	12505.9*	5-yr	0.01	48.18	0.81	6813.57	6818.43		6818.43	0.000005	0.26	200.04	67.55	0.03	0	0
LowerTrib	12505.9*	10-yr	0.01	81.51	1.47	6813.57	6818.54		6818.54	0.000014	0.43	207.2	68.23	0.04	0	0
LowerTrib	12505.9*	25-yr	0.03	195.86	4.11	6813.57	6818.78		6818.8	0.000065	0.98	224.05	69.8	0.1	0.01	0.01
LowerTrib	12505.9*	50-yr	0.06	283.51	6.44	6813.57	6818.93		6818.96	0.00012	1.36	234.34	70.79	0.13	0.01	0.02
LowerTrib	12505.9*	100-yr	0.08	380.69	9.23	6813.57	6819.06		6819.1	0.000195	1.77	243.6	71.73	0.17	0.02	0.04
LowerTrib	12481.7*	2-yr	0.01	26.14	0.85	6811.84	6818.34		6818.34	0	0.09	345.63	75.64	0.01	0	0
LowerTrib	12481.7*	5-yr	0.01	47.4	1.59	6811.84	6818.43		6818.43	0.000001	0.16	352.78	76.1	0.01	0	0
LowerTrib	12481.7*	10-yr	0.02	80.22	2.77	6811.84	6818.54		6818.54	0.000003	0.26	360.91	76.62	0.02	0	0
LowerTrib	12481.7*	25-yr	0.04	192.86	7.1	6811.84	6818.78		6818.79	0.000014	0.6	379.99	77.84	0.05	0	0
LowerTrib	12481.7*	50-yr	0.05	279.17	10.78	6811.84	6818.94		6818.95	0.000026	0.85	397.92	155.63	0.09	0	0
LowerTrib	12481.7*	100-yr	0.1	381.85	8.05	6811.84	6819.07		6819.09	0.000046	1.13	421.25	181.28	0.13	0.01	0.01
LowerTrib	12457.47	2-yr		25.39	1.61	6810.11	6818.34	6810.66	6818.34	0	0.09	376.98	142.83	0.01		0
LowerTrib	12457.47	5-yr	0.01	48.07	0.92	6810.11	6818.43	6810.85	6818.43	0	0.11	530.73	182.7	0.01		0
LowerTrib	12457.47	10-yr	0.02	81.14	1.83	6810.11	6818.54	6811.07	6818.54	0.000001	0.19	550.65	191.37	0.02		0
LowerTrib	12457.47	25-yr	0.14	193.78	6.08	6810.11	6818.79	6811.65	6818.79	0.000005	0.43	599.38	201.24	0.04		0
LowerTrib	12457.47	50-yr	0.31	279.33	10.36	6810.11	6818.94	6812	6818.94	0.000009	0.61	630.35	206.62	0.06		0
LowerTrib	12457.47	100-yr	0.51	373.66	15.84	6810.11	6819.07	6812.37	6819.08	0.000016	0.8	659.96	223.49	0.08		0
LowerTrib	12425.19		Culvert													
LowerTrib	12396.04	2-yr		27		6809.69	6810.68	6810.44	6810.75	0.003381	2.11	12.81	31.51	0.47	1.46	0.13
LowerTrib	12396.04	5-yr		49		6809.69	6810.97	6810.61	6811.08	0.003157	2.62	18.7	39.43	0.48	1.45	0.18
LowerTrib	12396.04	10-yr		83		6809.69	6811.22	6810.84	6811.41	0.004036	3.48	23.82	45.8	0.57	1.59	0.29
LowerTrib	12396.04	25-yr		200		6809.69	6811.81	6811.5	6812.29	0.006004	5.58	35.85	54.98	0.74	2.09	0.66
LowerTrib	12396.04	50-yr		290		6809.69	6812.22	6811.92	6812.89	0.00633	6.58	44.1	55.09	0.79	2.34	0.85
LowerTrib	12396.04	100-yr		390		6809.69	6812.54	6812.32	6813.46	0.007209	7.7	50.66	55.19	0.86	2.57	1.11

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	12092.03	2-yr		40		6808.38	6809.21		6809.29	0.006313	2.33	17.16	37.59	0.61	3.87	0.18
LowerTrib	12092.03	5-yr		85		6808.38	6809.5		6809.63	0.006291	2.91	29.23	45.83	0.64	3.72	0.25
LowerTrib	12092.03	10-yr		120		6808.38	6809.66		6809.82	0.006261	3.23	37.18	49.66	0.66	3.63	0.29
LowerTrib	12092.03	25-yr		210		6808.38	6809.96	6809.74	6810.2	0.007026	3.97	52.91	56.49	0.72	3.46	0.41
LowerTrib	12092.03	50-yr		320	0	6808.38	6810.21	6810.02	6810.56	0.008067	4.72	67.75	62.24	0.8	3.39	0.55
LowerTrib	12092.03	100-yr	0.02	439.78	0.2	6808.38	6810.44	6810.27	6810.88	0.008145	5.34	82.9	67.59	0.85	3.39	0.62
LowerTrib	11692.03	2-yr		40		6803.99	6805.12	6805.12	6805.41	0.016465	4.3	9.29	16.49	1.01	2.2	0.57
LowerTrib	11692.03	5-yr		85		6803.99	6805.52	6805.52	6805.91	0.014882	5	17	22.32	1.01	1.99	0.7
LowerTrib	11692.03	10-yr	0	120		6803.99	6805.74	6805.74	6806.2	0.014039	5.45	22.06	26.72	1.06	1.87	0.72
LowerTrib	11692.03	25-yr	6.59	203.41		6803.99	6806.22	6806.22	6806.74	0.01074	5.87	43.19	64.29	1.24	1.6	0.45
LowerTrib	11692.03	50-yr	33.63	286.37		6803.99	6806.64	6806.64	6807.16	0.008837	6.08	79.39	101.13	1.15	1.33	0.43
LowerTrib	11692.03	100-yr	71.51	368.49		6803.99	6806.93	6806.93	6807.49	0.008765	6.54	110.61	115.23	1.08	1.13	0.52
LowerTrib	11551.86	2-yr		40		6801.38	6802.85	6802.85	6803.21	0.0149	4.79	8.36	11.45	0.99	0.57	0.66
LowerTrib	11551.86	5-yr		85		6801.38	6803.35	6803.35	6803.87	0.013396	5.75	14.78	14.11	0.99	0.48	0.84
LowerTrib	11551.86	10-yr		120		6801.38	6803.68	6803.68	6804.26	0.012521	6.11	19.63	16.23	0.98	0.45	0.91
LowerTrib	11551.86	25-yr		210		6801.38	6804.28	6804.28	6805.01	0.011774	6.83	30.76	20.6	0.98	0.42	1.05
LowerTrib	11551.86	50-yr	3.52	316.48		6801.38	6804.9	6804.9	6805.66	0.009861	7.05	50.08	48.08	1.21	0.36	0.63
LowerTrib	11551.86	100-yr	36.64	403.36		6801.38	6805.47	6805.47	6806.11	0.007303	6.67	97.13	102.73	1.16	0.27	0.43
LowerTrib	11516.82	2-yr		40		6801.22	6802.27	6802.27	6802.56	0.016563	4.37	9.15	15.96	1.02	1.27	0.59
LowerTrib	11516.82	5-yr		85		6801.22	6802.71	6802.67	6803.11	0.011941	5.06	16.78	18.2	0.93	1.19	0.67
LowerTrib	11516.82	10-yr		120		6801.22	6802.95	6802.92	6803.45	0.011957	5.66	21.19	19.38	0.95	1.18	0.8
LowerTrib	11516.82	25-yr		210		6801.22	6803.43	6803.43	6804.14	0.011922	6.73	31.18	21.82	0.99	0.95	1.03
LowerTrib	11516.82	50-yr	0.39	319.61		6801.22	6803.98	6803.98	6804.8	0.010512	7.28	44.99	38.52	1.19	0.93	0.75
LowerTrib	11516.82	100-yr	21.15	418.85		6801.22	6804.58	6804.58	6805.32	0.007319	7.08	84.83	107.11	1.37	0.81	0.36
LowerTrib	11425.16	2-yr		40		6799.44	6800.99	6800.9	6801.29	0.011743	4.4	9.08	11.79	0.88	3.83	0.54
LowerTrib	11425.16	5-yr		85		6799.44	6801.44	6801.44	6801.93	0.013887	5.61	15.15	15.53	1	3.91	0.82
LowerTrib	11425.16	10-yr	0.03	119.97		6799.44	6801.8	6801.8	6802.27	0.013632	5.47	22.07	26.74	1.06	3.83	0.69
LowerTrib	11425.16	25-yr	8.02	189.05	12.93	6799.44	6802.4	6802.4	6802.7	0.007118	4.69	77.38	227.64	1.35	2.62	0.15
LowerTrib	11425.16	50-yr	17.17	246.17	56.66	6799.44	6802.63	6802.63	6802.95	0.006965	5.11	137.19	265.06	1.1	2.02	0.22
LowerTrib	11425.16	100-yr	26.43	308.83	104.74	6799.44	6802.77	6802.77	6803.15	0.007944	5.81	175.68	271.08	1.07	1.85	0.32
LowerTrib	11146.3	2-yr		40		6796.21	6797.17	6797.17	6797.47	0.01624	4.39	9.1	15.46	1.01	2.87	0.59
LowerTrib	11146.3	5-yr		85		6796.21	6797.58	6797.58	6798.02	0.014068	5.33	15.94	18.07	1	2.97	0.76
LowerTrib	11146.3	10-yr		120		6796.21	6797.81	6797.81	6798.35	0.013751	5.88	20.41	19.59	1.02	3.1	0.87
LowerTrib	11146.3	25-yr		210		6796.21	6798.33	6798.33	6799.03	0.012529	6.71	31.29	22.88	1.01	3.27	1.04
LowerTrib	11146.3	50-yr		304.68	15.32	6796.21	6799.01	6799.01	6799.61	0.007301	6.39	70.51	108.13	1.36	2.43	0.29
LowerTrib	11146.3	100-yr		369.55	70.45	6796.21	6799.45	6799.45	6799.97	0.005537	6.26	135.85	167.98	1.13	2.07	0.28

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	10892.03	2-yr		40		6784.41	6786.13	6785.88	6786.44	0.008272	4.5	8.88	7.88	0.75	4.46	0.52
LowerTrib	10892.03	5-yr		85		6784.41	6786.77	6786.57	6787.3	0.009777	5.84	14.55	9.77	0.84	4.7	0.8
LowerTrib	10892.03	10-yr		120		6784.41	6787.11	6786.97	6787.8	0.010805	6.63	18.1	10.78	0.9	4.85	0.99
LowerTrib	10892.03	25-yr		210		6784.41	6787.76	6787.76	6788.8	0.012892	8.17	25.72	12.68	1.01	5.08	1.41
LowerTrib	10892.03	50-yr		320		6784.41	6788.5	6788.5	6789.74	0.012233	8.91	35.93	14.85	1.01	4.84	1.58
LowerTrib	10892.03	100-yr		440		6784.41	6789.16	6789.16	6790.56	0.011777	9.51	46.26	16.77	1.01	4.65	1.73
LowerTrib	10492.03	2-yr		40		6780.51	6781.65	6781.65	6781.98	0.015784	4.64	8.61	13.06	1.01	2.07	0.64
LowerTrib	10492.03	5-yr		85		6780.51	6782.1	6782.1	6782.59	0.014332	5.64	15.08	15.77	1.02	1.81	0.83
LowerTrib	10492.03	10-yr		120		6780.51	6782.36	6782.36	6782.95	0.01351	6.15	19.53	17.04	1.01	1.73	0.93
LowerTrib	10492.03	25-yr		210		6780.51	6782.91	6782.91	6783.72	0.012187	7.2	29.18	18.23	1	1.61	1.15
LowerTrib	10492.03	50-yr		320		6780.51	6783.45	6783.45	6784.48	0.011695	8.15	39.25	19.39	1.01	1.58	1.37
LowerTrib	10492.03	100-yr		440		6780.51	6783.96	6783.96	6785.19	0.0112	8.89	49.48	20.46	1.01	1.6	1.55
LowerTrib	10092.03	2-yr		40		6777.98	6779.37		6779.45	0.002417	2.3	17.42	18.38	0.42	2.03	0.14
LowerTrib	10092.03	5-yr		85		6777.98	6780.03		6780.16	0.002012	2.82	30.19	19.98	0.4	1.79	0.18
LowerTrib	10092.03	10-yr		120		6777.98	6780.46		6780.6	0.001883	3.09	38.83	20.99	0.4	1.68	0.2
LowerTrib	10092.03	25-yr		210		6777.98	6781.37		6781.57	0.00167	3.56	59.05	23.05	0.39	1.54	0.24
LowerTrib	10092.03	50-yr		320		6777.98	6782.27		6782.52	0.001573	3.97	80.67	25.06	0.39	1.47	0.28
LowerTrib	10092.03	100-yr		440		6777.98	6783.07		6783.36	0.001551	4.34	101.44	26.86	0.39	1.43	0.32
LowerTrib	9692.031	2-yr		40		6775.09	6776.9	6776.9	6777.42	0.015465	5.78	6.92	6.49	0.99	1.64	0.88
LowerTrib	9692.031	5-yr		85		6775.09	6777.62	6777.62	6778.38	0.014981	6.99	12.16	8.16	1.01	1.72	1.16
LowerTrib	9692.031	10-yr		120		6775.09	6778.08	6778.08	6778.93	0.013755	7.4	16.22	9.27	0.99	1.73	1.23
LowerTrib	9692.031	25-yr		210		6775.09	6778.95	6778.95	6780.03	0.013037	8.36	25.13	11.33	0.99	2.21	1.46
LowerTrib	9692.031	50-yr		320		6775.09	6779.76	6779.76	6781.05	0.012404	9.1	35.16	13.35	0.99	2.55	1.64
LowerTrib	9692.031	100-yr	1.1	438.9		6775.09	6780.51	6780.51	6781.94	0.011068	9.61	47.2	34.51	1.15	2.34	1.29
LowerTrib	9292.031	2-yr		49		6772.35	6773.36		6773.4	0.001864	1.67	29.41	42.18	0.35	3.44	0.08
LowerTrib	9292.031	5-yr		110		6772.35	6773.78		6773.86	0.001989	2.32	47.32	42.8	0.39	3.45	0.13
LowerTrib	9292.031	10-yr		160		6772.35	6774.05		6774.16	0.002055	2.71	59.03	43.2	0.41	3.45	0.17
LowerTrib	9292.031	25-yr		270		6772.35	6774.39	6773.74	6774.6	0.002862	3.66	73.71	43.7	0.5	3.31	0.29
LowerTrib	9292.031	50-yr		340		6772.35	6774.57		6774.84	0.003273	4.17	81.63	43.96	0.54	3.22	0.36
LowerTrib	9292.031	100-yr		450		6772.35	6775.01		6775.32	0.002874	4.44	101.4	44.64	0.52	3.39	0.39
LowerTrib	8887.93	2-yr		49		6768.95	6769.73	6769.73	6769.96	0.01815	3.81	12.86	29.77	1.02	0.94	0.49
LowerTrib	8887.93	5-yr	0.02	109.98		6768.95	6770.05	6770.05	6770.41	0.01502	4.81	22.93	33.62	1.03	1.05	0.64
LowerTrib	8887.93	10-yr	0.43	159.57		6768.95	6770.27	6770.27	6770.71	0.013689	5.32	30.67	38.19	1.04	1.83	0.68
LowerTrib	8887.93	25-yr	5.87	264.13		6768.95	6770.93		6771.29	0.006421	4.9	60.32	52.1	0.79	2.87	0.46
LowerTrib	8887.93	50-yr	11.62	328.38		6768.95	6771.27	6770.87	6771.62	0.005046	4.85	79.39	59.11	0.73	3	0.42
LowerTrib	8887.93	100-yr	17.82	432.18		6768.95	6771.41	6771.16	6771.93	0.006771	5.86	88.24	62.07	0.85	2.99	0.59

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	8487.736	2-yr		49		6766.17	6767.57	6766.78	6767.6	0.000804	1.41	34.84	34.49	0.25	0.02	0.05
LowerTrib	8487.736	5-yr	0.69	109	0.3	6766.17	6768.18	6767.16	6768.23	0.000931	1.75	68.75	161.28	0.37	0.03	0.04
LowerTrib	8487.736	10-yr	0.81	158.82	0.38	6766.17	6768.16	6767.4	6768.26	0.002099	2.59	66.58	153.25	0.54	0.06	0.09
LowerTrib	8487.736	25-yr	0.25	269.48	0.27	6766.17	6768.06	6767.89	6768.41	0.008063	4.79	58.04	109.16	0.98	0.21	0.37
LowerTrib	8487.736	50-yr	0.51	339.08	0.41	6766.17	6768.08	6768.08	6768.62	0.012071	5.93	59.54	121.74	1.2	0.32	0.56
LowerTrib	8487.736	100-yr	12.6	433.71	3.69	6766.17	6768.42	6768.42	6768.93	0.008289	5.84	98.05	311.73	1.22	0.33	0.35
LowerTrib	8332.121	2-yr		49		6760.75	6767.58	6761.44	6767.58	0.000005	0.31	158.42	328.95	0.02		0
LowerTrib	8332.121	5-yr	5.93	104.07		6760.75	6768.2	6761.9	6768.2	0.000013	0.51	291.63	475.67	0.06		0
LowerTrib	8332.121	10-yr	8.59	151.41		6760.75	6768.19	6762.2	6768.2	0.000028	0.75	291.13	473.64	0.09		0
LowerTrib	8332.121	25-yr	14.35	255.65		6760.75	6768.18	6762.78	6768.21	0.000082	1.26	289.73	468.06	0.14		0.01
LowerTrib	8332.121	50-yr	17.86	322.14		6760.75	6768.17	6763.11	6768.21	0.000131	1.6	288.16	460.06	0.18		0.02
LowerTrib	8332.121	100-yr	23.02	426.98		6760.75	6768.14	6763.57	6768.21	0.000234	2.13	284.78	451.83	0.24		0.03
LowerTrib	8304.048		Culvert													
LowerTrib	8268.483	2-yr		49		6760.5	6764.05	6761.08	6764.05	0.000052	0.68	71.6	20.63	0.06	0.01	0.01
LowerTrib	8268.483	5-yr		110		6760.5	6764.56	6761.5	6764.59	0.000182	1.34	82.27	21.85	0.12	0.03	0.03
LowerTrib	8268.483	10-yr		160		6760.5	6764.81	6761.76	6764.86	0.000346	1.82	88.14	27.56	0.17	0.05	0.06
LowerTrib	8268.483	25-yr		270		6760.5	6765.17	6762.3	6765.29	0.000741	2.77	97.32	44.95	0.25	0.08	0.14
LowerTrib	8268.483	50-yr		340		6760.5	6765.34	6762.59	6765.51	0.001017	3.35	101.61	53.11	0.3	0.1	0.2
LowerTrib	8268.483	100-yr		450		6760.5	6765.52	6763.03	6765.8	0.001531	4.23	106.34	64.23	0.37	0.13	0.31
LowerTrib	8223.27*	2-yr		49		6761.12	6764.03		6764.05	0.000177	1.1	44.74	15.96	0.12	0.02	0.02
LowerTrib	8223.27*	5-yr		110		6761.12	6764.5		6764.56	0.00096	2.03	54.26	30.53	0.27	0.09	0.09
LowerTrib	8223.27*	10-yr		160		6761.12	6764.71		6764.82	0.001938	2.57	62.35	43.62	0.38	0.16	0.15
LowerTrib	8223.27*	25-yr	0.26	269.61	0.13	6761.12	6765.02		6765.21	0.003166	3.48	79.56	79.59	0.61	0.24	0.19
LowerTrib	8223.27*	50-yr	2.45	336.95	0.61	6761.12	6765.17		6765.41	0.003629	3.97	94.02	111.13	0.76	0.27	0.18
LowerTrib	8223.27*	100-yr	10.09	437.97	1.95	6761.12	6765.35	6764.81	6765.68	0.004409	4.67	117.66	150.08	0.92	0.3	0.21
LowerTrib	8178.07*	2-yr		49		6761.75	6763.96		6764.02	0.001573	2.03	24.14	19.89	0.32	0.14	0.1
LowerTrib	8178.07*	5-yr	0.42	109.58		6761.75	6764.33		6764.47	0.005544	2.98	38.95	88.4	0.79	0.38	0.15
LowerTrib	8178.07*	10-yr	4.49	155.5	0.01	6761.75	6764.47	6763.7	6764.66	0.006758	3.56	53.83	125.19	0.94	0.43	0.18
LowerTrib	8178.07*	25-yr	20.88	248.69	0.43	6761.75	6764.66	6764.61	6764.97	0.008731	4.64	81.05	148.71	1.07	0.48	0.29
LowerTrib	8178.07*	50-yr	33.56	305.43	1	6761.75	6764.76	6764.75	6765.14	0.010018	5.25	95.17	161.24	1.14	0.49	0.36
LowerTrib	8178.07*	100-yr	61.44	385.47	3.09	6761.75	6764.93	6764.93	6765.37	0.010014	5.77	125.29	187.35	1.15	0.5	0.41
LowerTrib	8132.86*	2-yr	11.31	37.69		6762.38	6763.81		6763.88	0.008773	2.35	34.56	134.44	0.72	0.65	0.14
LowerTrib	8132.86*	5-yr	32.73	77.27		6762.38	6763.95	6763.91	6764.08	0.014248	3.46	53.88	148.83	0.86	0.63	0.32
LowerTrib	8132.86*	10-yr	51.5	108.48	0.02	6762.38	6764.06	6764.01	6764.23	0.014138	3.91	70.62	160.39	0.87	0.64	0.39
LowerTrib	8132.86*	25-yr	95.25	173.92	0.82	6762.38	6764.29		6764.5	0.0111	4.39	112.74	199.37	0.85	0.63	0.39

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	8132.86*	50-yr	125.26	212.53	2.21	6762.38	6764.44		6764.65	0.009458	4.53	143.55	225.16	0.81	0.56	0.37
LowerTrib	8132.86*	100-yr	171.34	273.87	4.79	6762.38	6764.59		6764.84	0.009557	5.03	179.88	259.54	0.85	0.57	0.41
LowerTrib	8087.66	2-yr	7.6	54.4		6762.55	6763.12	6763.12	6763.24	0.02341	2.88	26.2	113.66	1		0.34
LowerTrib	8087.66	5-yr	17.79	122.21		6762.55	6763.35	6763.28	6763.46	0.01338	2.91	58.27	167.97	0.82	7.25	0.29
LowerTrib	8087.66	10-yr	25.32	174.68		6762.55	6763.43	6763.38	6763.59	0.014128	3.35	73.37	181.39	0.87	7.23	0.36
LowerTrib	8087.66	25-yr	47.18	322.82	0	6762.55	6763.6	6763.58	6763.87	0.016508	4.38	106.43	206.37	1.01	7.17	0.53
LowerTrib	8087.66	50-yr	68.25	461.46	0.29	6762.55	6763.77	6763.74	6764.09	0.014593	4.87	142.14	231.56	1.03	7.11	0.56
LowerTrib	8087.66	100-yr	90.11	588.87	1.03	6762.55	6763.88	6763.88	6764.27	0.014782	5.39	169.12	248.91	1.08	6.33	0.63
LowerTrib	7692.03	2-yr	23.11	38.89		6755.38	6755.82	6755.82	6755.95	0.031279	3.45	29.14	117.92	1.01	7.9	0.48
LowerTrib	7692.03	5-yr	50.91	89.09		6755.38	6756.01	6756.01	6756.21	0.026581	4.35	53.89	147.03	1.04	7.1	0.61
LowerTrib	7692.03	10-yr	72.71	127.29		6755.38	6756.12	6756.12	6756.36	0.024466	4.83	71.19	163.91	1.06	6.47	0.66
LowerTrib	7692.03	25-yr	139.85	230.15		6755.38	6756.38	6756.38	6756.7	0.019934	5.59	120.28	204.32	1.04	5.43	0.73
LowerTrib	7692.03	50-yr	202.11	327.89		6755.38	6756.53	6756.53	6756.97	0.022614	6.59	152.06	236.28	1.17	5.58	0.91
LowerTrib	7692.03	100-yr	261.4	418.6		6755.38	6756.76	6756.76	6757.19	0.017365	6.56	214.97	319.5	1.13	4.69	0.73
LowerTrib	7292.03	2-yr		62		6746.92	6747.86	6747.81	6748.06	0.01357	3.56	17.43	35.94	0.9	5.91	0.41
LowerTrib	7292.03	5-yr	0.14	137.83	2.04	6746.92	6748.18	6748.18	6748.49	0.012657	4.48	35.19	83.48	1.21	5.53	0.33
LowerTrib	7292.03	10-yr	1.67	189.69	8.64	6746.92	6748.36	6748.36	6748.72	0.011454	4.94	51.68	100.6	1.18	5.26	0.37
LowerTrib	7292.03	25-yr	14.91	321.39	33.7	6746.92	6748.76	6748.76	6749.22	0.009804	5.82	98.99	140.83	1.14	4.8	0.43
LowerTrib	7292.03	50-yr	36.75	433.06	60.19	6746.92	6749.03	6749.03	6749.57	0.009433	6.49	140.9	166.41	1.13	4.44	0.5
LowerTrib	7292.03	100-yr	62.06	527.55	90.39	6746.92	6749.29	6749.29	6749.85	0.008406	6.78	188.41	201.33	1.09	3.92	0.49
LowerTrib	6892.03	2-yr	4.6	56.29	1.11	6741.63	6742.02	6742.02	6742.15	0.016035	3	28.04	125.94	1.07	6.44	0.22
LowerTrib	6892.03	5-yr	19	116.69	4.31	6741.63	6742.21	6742.21	6742.42	0.014984	3.93	54.39	151.89	1.06	5.3	0.33
LowerTrib	6892.03	10-yr	31.73	160.48	7.79	6741.63	6742.32	6742.32	6742.58	0.01508	4.48	72.45	179.31	1.12	5.13	0.38
LowerTrib	6892.03	25-yr	67.98	271.1	30.92	6741.63	6742.56	6742.56	6742.91	0.014828	5.49	120.26	210.99	1.11	4.84	0.53
LowerTrib	6892.03	50-yr	100.94	367.66	61.39	6741.63	6742.78	6742.78	6743.17	0.012944	5.96	170.99	249.24	1.07	4.32	0.55
LowerTrib	6892.03	100-yr	130.31	450.61	99.08	6741.63	6742.97	6742.97	6743.38	0.011308	6.21	221.26	274.74	1.01	3.81	0.57
LowerTrib	6492.03	2-yr		62		6731	6732.31	6732.31	6732.64	0.016041	4.65	13.34	20.41	1.01	0.74	0.64
LowerTrib	6492.03	5-yr	4.75	135.02	0.23	6731	6732.81	6732.81	6733.25	0.011702	5.42	30.76	46.06	1.15	0.23	0.48
LowerTrib	6492.03	10-yr	12.32	186.32	1.36	6731	6733.06	6733.06	6733.59	0.010936	6.04	42.92	52.36	1.14	0.28	0.55
LowerTrib	6492.03	25-yr	39.2	321.38	9.42	6731	6733.61	6733.61	6734.33	0.009907	7.29	75.74	67.33	1.13	0.4	0.69
LowerTrib	6492.03	50-yr	70.08	437.57	22.36	6731	6734.05	6734.05	6734.88	0.008962	8	109.35	85.09	1.14	0.48	0.71
LowerTrib	6492.03	100-yr	103.24	534.82	41.94	6731	6734.44	6734.44	6735.3	0.007941	8.36	147.19	115.88	1.17	0.52	0.63
LowerTrib	6271.179	2-yr	1.57	60.43		6726.75	6730.33	6728.41	6730.41	0.001114	2.31	29.4	393.39	0.3		0.1
LowerTrib	6271.179	5-yr	122.94	17.06		6726.75	6732.17	6729.81	6732.17	0.000012	0.35	1245.71	635.4	0.02		0
LowerTrib	6271.179	10-yr	176.49	23.51		6726.75	6732.28	6730.24	6732.28	0.00002	0.47	1311.87	639.13	0.02		0
LowerTrib	6271.179	25-yr	329.05	40.96		6726.75	6732.49	6731.22	6732.49	0.000052	0.79	1434.41	642.92	0.04		0.01

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	6271.179	50-yr	473.75	56.25		6726.75	6732.66	6732	6732.66	0.000086	1.04	1532.19	646.43	0.05		0.01
LowerTrib	6271.179	100-yr	609.32	70.68		6726.75	6732.75	6732	6732.75	0.000127	1.28	1585.29	649.76	0.06		0.02
LowerTrib	6243.929		Culvert													
LowerTrib	6200.267	2-yr		62		6726.75	6728.42	6727.91	6728.53	0.002933	2.64	23.45	32.84	0.47	0.56	0.18
LowerTrib	6200.267	5-yr		140		6726.75	6728.88	6728.48	6729.13	0.004611	3.95	35.47	49.59	0.61	0.77	0.37
LowerTrib	6200.267	10-yr		200		6726.75	6729.09	6728.77	6729.45	0.00601	4.87	41.11	60.44	0.71	0.95	0.54
LowerTrib	6200.267	25-yr		370		6726.75	6729.46	6729.42	6730.24	0.010063	7.1	52.14	79.96	0.95	1.4	1.07
LowerTrib	6200.267	50-yr	75.18	454.47	0.35	6726.75	6729.92	6729.92	6730.54	0.00698	6.8	126.48	126.4	1.11	1.11	0.43
LowerTrib	6200.267	100-yr	100.75	578.6	0.65	6726.75	6729.97	6729.97	6730.92	0.010376	8.43	133.81	135.85	1.39	1.42	0.63
LowerTrib	6092.03	2-yr	25.59	36.41		6727.09	6727.91	6727.66	6727.98	0.010215	2.52	33.48	73.96	0.55	5.17	0.29
LowerTrib	6092.03	5-yr	39.09	100.83	0.09	6727.09	6728.21	6727.97	6728.35	0.010505	3.51	65.69	166.75	0.85	5.07	0.26
LowerTrib	6092.03	10-yr	60.05	139.36	0.6	6727.09	6728.33	6728.14	6728.51	0.010766	4.02	88	206.32	0.92	4.96	0.29
LowerTrib	6092.03	25-yr	127.87	237.49	4.64	6727.09	6728.59	6728.15	6728.85	0.010975	5.01	146.11	245.82	0.94	4.78	0.41
LowerTrib	6092.03	50-yr	194.59	325.21	10.21	6727.09	6728.75	6728.72	6729.09	0.011974	5.83	191.7	324.83	1.07	4.69	0.44
LowerTrib	6092.03	100-yr	270.87	391.86	17.27	6727.09	6728.95	6728.95	6729.28	0.010236	5.99	265.55	424.07	1.03	4.15	0.4
LowerTrib	5692.03	2-yr		62		6721.62	6722.57	6722.57	6722.82	0.016733	3.98	15.58	31.76	1	0.13	0.51
LowerTrib	5692.03	5-yr		140		6721.62	6722.94	6722.94	6723.29	0.015479	4.75	29.5	43.55	1.02	0.21	0.65
LowerTrib	5692.03	10-yr	0.13	199.87		6721.62	6723.16	6723.16	6723.55	0.01429	5.04	40.09	57.42	1.06	0.26	0.62
LowerTrib	5692.03	25-yr	7.85	362.15		6721.62	6723.59	6723.59	6724.06	0.012951	5.52	74.26	98.39	1.11	0.39	0.61
LowerTrib	5692.03	50-yr	23.05	506.91	0.03	6721.62	6723.89	6723.89	6724.4	0.011393	5.84	110.36	143.56	1.15	0.52	0.55
LowerTrib	5692.03	100-yr	43.38	636.12	0.5	6721.62	6724.1	6724.1	6724.66	0.010407	6.17	145.26	182.45	1.18	0.64	0.52
LowerTrib	5357.976	2-yr	32.78	15.98	13.24	6715.43	6722.11	6717.2	6722.11	0.000006	0.31	732.58	437.86	0.02		0
LowerTrib	5357.976	5-yr	75.25	34.79	29.96	6715.43	6722.21	6718.21	6722.21	0.000029	0.67	776.86	463.14	0.05		0
LowerTrib	5357.976	10-yr	109.19	49	41.81	6715.43	6722.26	6719	6722.27	0.000055	0.93	803.52	469.87	0.07		0.01
LowerTrib	5357.976	25-yr	203.06	85.09	81.86	6715.43	6722.4	6720.24	6722.41	0.000153	1.58	870.75	491.62	0.11		0.02
LowerTrib	5357.976	50-yr	291.03	116.58	122.39	6715.43	6722.51	6721.06	6722.53	0.000271	2.13	924.12	503.49	0.14		0.03
LowerTrib	5357.976	100-yr	371.21	145.93	162.87	6715.43	6722.59	6721.75	6722.62	0.000407	2.63	964.44	515.74	0.17		0.05
LowerTrib	5333.859		Culvert													
LowerTrib	5309.4	2-yr		62		6715.25	6717.36	6716.49	6717.49	0.00488	2.88	21.49	13.58	0.38	1.29	0.5
LowerTrib	5309.4	5-yr		140		6715.25	6718.21	6717.18	6718.51	0.007011	4.43	31.63	14.58	0.48	1.72	1.04
LowerTrib	5309.4	10-yr		200		6715.25	6718.73	6717.64	6719.16	0.007819	5.27	37.92	15.2	0.52	2	1.39
LowerTrib	5309.4	25-yr	4.71	358.66	6.64	6715.25	6719.79	6718.67	6720.33	0.009841	6.04	74.68	79.18	1.08	2.57	0.55
LowerTrib	5309.4	50-yr	45.73	445.61	38.66	6715.25	6720.32	6720.28	6720.89	0.009673	6.56	149.53	211.96	1.26	2.78	0.42
LowerTrib	5309.4	100-yr	126.48	470.65	82.87	6715.25	6720.67	6720.66	6721.12	0.008302	6.4	228.99	271.46	1.03	2.67	0.43

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	5003.36	2-yr		65.75	0.25	6714.24	6716.15		6716.2	0.003522	1.8	37.28	40.07	0.33	0.8	0.2
LowerTrib	5003.36	5-yr	0.64	145.37	3.98	6714.24	6716.7		6716.8	0.004201	2.59	63.66	57.56	0.43	0.95	0.29
LowerTrib	5003.36	10-yr	2.78	216.3	10.92	6714.24	6717.02		6717.17	0.004986	3.2	84.14	69.13	0.5	1.09	0.38
LowerTrib	5003.36	25-yr	11.4	364.51	34.09	6714.24	6717.51		6717.76	0.006608	4.29	122.03	86.57	0.6	1.3	0.58
LowerTrib	5003.36	50-yr	20.27	473.34	56.39	6714.24	6717.76		6718.11	0.007926	5.03	145.4	95.63	0.67	1.38	0.75
LowerTrib	5003.36	100-yr	32.56	590.17	87.27	6714.24	6718.01		6718.45	0.009107	5.73	170.3	102.69	0.72	1.48	0.94
LowerTrib	4892.03	2-yr		65.91	0.09	6713.97	6715.23		6715.4	0.021172	3.22	20.7	37.91	0.77	5.44	0.72
LowerTrib	4892.03	5-yr		139.16	10.84	6713.97	6715.62	6715.55	6715.85	0.024958	3.98	44.91	88.55	0.95	5.33	0.79
LowerTrib	4892.03	10-yr	1.1	197.87	31.04	6713.97	6715.82	6715.78	6716.09	0.026015	4.43	66.5	124.4	1	5.2	0.87
LowerTrib	4892.03	25-yr	13.56	316.73	79.72	6713.97	6716.12	6716.08	6716.48	0.025217	5.3	107.33	145.45	0.98	5.04	1.16
LowerTrib	4892.03	50-yr	31.35	397.1	121.55	6713.97	6716.35	6716.27	6716.72	0.022127	5.58	141.97	158.38	0.91	4.98	1.24
LowerTrib	4892.03	100-yr	54.11	486.23	169.66	6713.97	6716.57	6716.43	6716.97	0.02079	5.94	177.23	172.77	0.89	4.89	1.33
LowerTrib	4492.03	2-yr		66		6708.3	6709.88	6709.49	6709.96	0.009391	2.31	28.59	39.7	0.48	4.59	0.42
LowerTrib	4492.03	5-yr	0.22	148.55	1.24	6708.3	6710.39	6709.93	6710.52	0.00819	2.93	53.56	61.11	0.55	4.64	0.45
LowerTrib	4492.03	10-yr	1.17	221.88	6.95	6708.3	6710.72	6710.18	6710.89	0.007705	3.37	78.05	93.49	0.64	4.66	0.4
LowerTrib	4492.03	25-yr	16.81	355.62	37.57	6708.3	6711.23	6710.69	6711.45	0.007436	4.03	138.1	137.34	0.66	4.74	0.47
LowerTrib	4492.03	50-yr	35.61	450.11	64.28	6708.3	6711.49	6711.01	6711.75	0.007893	4.51	176.95	168.08	0.71	4.83	0.52
LowerTrib	4492.03	100-yr	71.71	557.08	81.21	6708.3	6711.79		6712.09	0.00795	4.92	243.08	261.36	0.8	4.97	0.46
LowerTrib	4119.845	2-yr		66		6704.18	6705.24		6705.36	0.01431	2.76	23.88	34.75	0.59	1.64	0.61
LowerTrib	4119.845	5-yr		149.9	0.1	6704.18	6705.66		6705.88	0.017581	3.75	40.29	47.39	0.72	1.93	0.93
LowerTrib	4119.845	10-yr		227.61	2.39	6704.18	6705.94	6705.7	6706.22	0.019558	4.29	55.7	62.64	0.8	2.11	1.08
LowerTrib	4119.845	25-yr		379.06	30.94	6704.18	6706.31	6706.31	6706.7	0.0216	5.17	101.52	178.32	1.16	2.23	0.77
LowerTrib	4119.845	50-yr	0.08	466.28	83.64	6704.18	6706.53	6706.53	6706.92	0.020547	5.42	143.71	214	1.08	2.36	0.86
LowerTrib	4119.845	100-yr	3.37	561.39	145.24	6704.18	6706.69	6706.69	6707.12	0.021929	5.86	181.28	263.25	1.12	2.48	0.94
LowerTrib	3922.506	2-yr	7.9	27.1	31	6702.73	6703.71	6703.48	6703.72	0.005248	1.38	82.67	288.11	0.31	0.92	0.11
LowerTrib	3922.506	5-yr	23.45	51.83	74.71	6702.73	6703.93	6703.64	6703.95	0.005901	1.81	149.85	397.36	0.34	0.82	0.15
LowerTrib	3922.506	10-yr	46.45	74.28	109.27	6702.73	6704.08	6703.74	6704.11	0.006374	2.14	210.72	492.55	0.37	0.84	0.19
LowerTrib	3922.506	25-yr	96.64	111.07	202.29	6702.73	6704.31	6703.9	6704.35	0.006423	2.51	322.38	541.4	0.35	0.86	0.26
LowerTrib	3922.506	50-yr	133.1	138.49	278.41	6702.73	6704.42	6704	6704.47	0.007291	2.85	377.1	559.07	0.37	0.84	0.33
LowerTrib	3922.506	100-yr	175.58	166.64	367.78	6702.73	6704.54	6704.1	6704.6	0.007574	3.11	443.1	579.71	0.38	0.84	0.39
LowerTrib	3847.389	2-yr		66		6701.5	6702.53	6702.53	6702.8	0.048374	4.14	15.95	31.58	1.03	1.78	1.52
LowerTrib	3847.389	5-yr	0	122.9	27.1	6701.5	6702.96	6702.96	6703.13	0.024955	3.69	62.06	218.65	1.11	1.74	0.44
LowerTrib	3847.389	10-yr	4.45	158.39	67.17	6701.5	6703.1	6703.1	6703.27	0.023539	3.93	102.75	317.99	1.03	1.88	0.47
LowerTrib	3847.389	25-yr	24.75	230.14	155.11	6701.5	6703.29	6703.29	6703.49	0.024813	4.64	170.05	400.47	0.98	2.24	0.66
LowerTrib	3847.389	50-yr	55.96	260.84	233.2	6701.5	6703.46	6703.39	6703.63	0.018738	4.49	241.67	435.02	0.78	2.19	0.65
LowerTrib	3847.389	100-yr	89.84	303.37	316.79	6701.5	6703.59	6703.46	6703.76	0.017417	4.66	307.42	502.42	0.74	2.18	0.67

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	3840		Lat Struct													
LowerTrib	3691.183	2-yr	59.25	6.75		6699.33	6700.08		6700.1	0.004686	1.05	56.59	72.62	0.23	1.32	0.23
LowerTrib	3691.183	5-yr	123.18	26.82		6699.33	6700.59		6700.63	0.00604	1.41	103.33	121.38	0.28	1.51	0.32
LowerTrib	3691.183	10-yr	177.43	52.54	0.03	6699.33	6700.82		6700.87	0.007061	1.76	133.94	146.04	0.32	1.56	0.4
LowerTrib	3691.183	25-yr	281.71	117.72	1.67	6699.33	6701.13		6701.21	0.008971	2.62	184.15	193.99	0.41	1.68	0.53
LowerTrib	3691.183	50-yr	320.82	181.1	8.87	6699.33	6701.34		6701.43	0.010517	3.26	231.71	244.55	0.45	1.81	0.62
LowerTrib	3691.183	100-yr	401.35	223.89	16.03	6699.33	6701.47		6701.58	0.011057	3.6	264.27	254.69	0.47	1.84	0.71
LowerTrib	3541.746	2-yr	51.97	14.03		6697.87	6698.74		6698.79	0.022086	2.26	38.41	105.24	0.52	0.34	0.5
LowerTrib	3541.746	5-yr	123.41	26.59	0	6697.87	6699.07		6699.12	0.020044	1.87	86.78	188.54	0.45	0.33	0.57
LowerTrib	3541.746	10-yr	177.9	50.39	1.01	6697.87	6699.24		6699.29	0.017098	2.25	119.62	209.76	0.46	0.32	0.6
LowerTrib	3541.746	25-yr	261.91	90.89	6.38	6697.87	6699.45		6699.53	0.015051	2.74	166.02	228.14	0.47	0.32	0.68
LowerTrib	3541.746	50-yr	301.84	110.6	10.05	6697.87	6699.54		6699.62	0.014631	2.94	186.7	241.35	0.48	0.32	0.7
LowerTrib	3541.746	100-yr	354.89	137.29	17.88	6697.87	6699.65		6699.75	0.014191	3.17	213.98	250.97	0.49	0.32	0.75
LowerTrib	3510.294	2-yr	29.16	36.84		6697.28	6698.42		6698.45	0.00634	1.54	55.72	141.39	0.37	0.65	0.15
LowerTrib	3510.294	5-yr	70.48	79.52		6697.28	6698.74		6698.79	0.006411	2.02	112.1	187.35	0.37	0.73	0.24
LowerTrib	3510.294	10-yr	116.39	112.81	0.02	6697.28	6698.93		6698.98	0.006578	2.32	146.29	190.16	0.37	0.8	0.31
LowerTrib	3510.294	25-yr	186.19	163.91	1.06	6697.28	6699.14		6699.21	0.007099	2.76	189.2	222.19	0.41	0.88	0.37
LowerTrib	3510.294	50-yr	218.87	187.39	2.91	6697.28	6699.22		6699.3	0.007355	2.94	208.23	232.49	0.43	0.91	0.41
LowerTrib	3510.294	100-yr	263.47	218.89	6.99	6697.28	6699.33		6699.42	0.007619	3.16	233.67	241.87	0.44	0.94	0.46
LowerTrib	3391.142	2-yr	54.21	11.79		6697.14	6697.78	6697.37	6697.8	0.004687	1.02	75.43	149.05	0.22	1.23	0.15
LowerTrib	3391.142	5-yr	110.43	27.84	0.18	6697.14	6698.03	6697.54	6698.06	0.005677	1.28	116.47	182.22	0.26	1.26	0.23
LowerTrib	3391.142	10-yr	150.86	44.76	0.97	6697.14	6698.15		6698.18	0.006681	1.63	138.12	193.67	0.3	1.27	0.3
LowerTrib	3391.142	25-yr	205.39	69.62	3.47	6697.14	6698.29		6698.33	0.007713	2.03	165.43	207.21	0.34	1.27	0.38
LowerTrib	3391.142	50-yr	228.38	81.12	5.28	6697.14	6698.35	6697.78	6698.4	0.007859	2.17	178.37	213.32	0.35	1.3	0.41
LowerTrib	3391.142	100-yr	259.8	97.37	8.21	6697.14	6698.43	6697.86	6698.49	0.007967	2.34	196.51	225.28	0.37	1.33	0.43
LowerTrib	3292.03	2-yr	41.58	18.75	5.67	6696.2	6696.45	6696.45	6696.57	0.084637	2.63	25.02	112.6	1.07	3.99	1.17
LowerTrib	3292.03	5-yr	47.96	60.71	27.1	6696.2	6696.67	6696.6	6696.79	0.051492	3.4	56.97	179.24	0.84	3.93	1.02
LowerTrib	3292.03	10-yr	67.38	83.63	37.37	6696.2	6696.8		6696.91	0.03464	3.43	82.19	203.42	0.74	3.9	0.87
LowerTrib	3292.03	25-yr	95.88	112.16	50.82	6696.2	6696.95		6697.06	0.026636	3.56	113.4	238.46	0.7	3.87	0.79
LowerTrib	3292.03	50-yr	106.69	123.64	58.48	6696.2	6696.98		6697.1	0.027675	3.75	120.68	242.38	0.71	3.86	0.86
LowerTrib	3292.03	100-yr	121.74	139.3	69.11	6696.2	6697.01		6697.16	0.029409	4	129.52	246.69	0.74	3.83	0.96
LowerTrib	2845.056	2-yr		1.17	64.83	6691.34	6692.55		6692.55	0.00315	0.89	96.61	182.97	0.17	0.04	0.1
LowerTrib	2845.056	5-yr	0.2	2.44	133.13	6691.34	6692.85		6692.86	0.003454	1.16	161.58	243.68	0.18	0.05	0.14
LowerTrib	2845.056	10-yr	0.82	3.44	184.12	6691.34	6693		6693.01	0.003845	1.38	200.95	283.27	0.2	0.06	0.17
LowerTrib	2845.056	25-yr	2.35	4.7	251.81	6691.34	6693.17		6693.18	0.004186	1.6	251.41	326.64	0.21	0.07	0.2
LowerTrib	2845.056	50-yr	3.23	5.1	280.49	6691.34	6693.23		6693.25	0.004104	1.64	272.27	332.88	0.21	0.07	0.21

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	2845.056	100-yr	4.22	5.61	320.32	6691.34	6693.31		6693.33	0.00396	1.69	299.81	339.52	0.21	0.07	0.22
LowerTrib	2814.937	2-yr	0.04	6.23	59.73	6690.86	6692.51		6692.51	0.00071	0.77	168.41	253.47	0.09	0.01	0.03
LowerTrib	2814.937	5-yr	0.18	11.28	124.32	6690.86	6692.8		6692.81	0.000996	1.08	253.27	314.16	0.11	0.02	0.05
LowerTrib	2814.937	10-yr	0.82	14.37	173.19	6690.86	6692.95		6692.96	0.00114	1.24	299.61	324.45	0.12	0.02	0.07
LowerTrib	2814.937	25-yr	2.07	18.32	238.47	6690.86	6693.11		6693.12	0.001308	1.42	352.62	341.77	0.14	0.02	0.08
LowerTrib	2814.937	50-yr	2.91	19.92	265.98	6690.86	6693.17		6693.18	0.001364	1.49	374.02	348.4	0.14	0.03	0.09
LowerTrib	2814.937	100-yr	4.41	22.07	303.66	6690.86	6693.25		6693.26	0.00143	1.57	402.61	355.86	0.15	0.03	0.1
LowerTrib	2791.836	2-yr	0.07	22.19	43.74	6690.25	6692.5		6692.5	0.000325	0.61	197.84	259.64	0.08	0.02	0.02
LowerTrib	2791.836	5-yr	0.98	41.61	93.19	6690.25	6692.79		6692.79	0.000574	0.94	279.31	317.35	0.12	0.02	0.03
LowerTrib	2791.836	10-yr	2.26	53.97	132.15	6690.25	6692.93		6692.93	0.000721	1.11	325.36	335.91	0.13	0.03	0.04
LowerTrib	2791.836	25-yr	5.25	69.1	184.51	6690.25	6693.08		6693.09	0.00088	1.3	377.8	339.54	0.14	0.03	0.06
LowerTrib	2791.836	50-yr	6.75	75.22	206.85	6690.25	6693.14		6693.15	0.000934	1.37	398.57	340.97	0.14	0.03	0.07
LowerTrib	2791.836	100-yr	8.96	83.48	237.71	6690.25	6693.22		6693.23	0.001004	1.46	425.61	342.82	0.15	0.04	0.08
LowerTrib	2768.694	2-yr	0.92	15.03	50.06	6690.07	6692.48		6692.49	0.00189	1.21	116.01	239.16	0.18	0.18	0.06
LowerTrib	2768.694	5-yr	4.23	23.74	107.81	6690.07	6692.76		6692.77	0.00204	1.48	188.47	272.75	0.18	0.16	0.09
LowerTrib	2768.694	10-yr	7.82	29.89	150.67	6690.07	6692.89		6692.91	0.0023	1.68	226.02	280.74	0.19	0.17	0.12
LowerTrib	2768.694	25-yr	13.01	37.54	208.31	6690.07	6693.04		6693.06	0.002586	1.91	268.13	286.65	0.2	0.18	0.15
LowerTrib	2768.694	50-yr	15.34	40.63	232.85	6690.07	6693.1		6693.12	0.002674	1.99	284.99	288.98	0.2	0.19	0.16
LowerTrib	2768.694	100-yr	18.65	44.82	266.67	6690.07	6693.17		6693.2	0.002787	2.1	307.12	292.32	0.21	0.19	0.18
LowerTrib	2734.887	2-yr	7.86	20.7	37.44	6689.71	6692.2	6692.19	6692.31	0.036871	3.95	34.62	112.02	0.81	2.13	0.7
LowerTrib	2734.887	5-yr	29.27	26.37	80.13	6689.71	6692.54		6692.6	0.018296	3.53	83.82	196.64	0.55	1.71	0.48
LowerTrib	2734.887	10-yr	41.55	30.13	116.7	6689.71	6692.67		6692.73	0.016659	3.62	110.43	215.53	0.5	1.62	0.53
LowerTrib	2734.887	25-yr	56.64	34.76	167.47	6689.71	6692.81		6692.88	0.015664	3.76	141.14	230.51	0.47	1.54	0.59
LowerTrib	2734.887	50-yr	63.24	36.85	188.72	6689.71	6692.86		6692.93	0.015554	3.84	153.51	240.09	0.47	1.53	0.61
LowerTrib	2734.887	100-yr	72.46	39.69	218	6689.71	6692.93		6693	0.015364	3.94	171.2	256.06	0.47	1.5	0.63
LowerTrib	2623.993	2-yr		66		6687.4	6689.96	6689.41	6690.17	0.011698	3.72	17.75	13.27	0.57	4.53	0.91
LowerTrib	2623.993	5-yr	11.97	123.81		6687.4	6690.67	6690.19	6690.89	0.013023	3.97	45.46	81.11	0.9	4.64	0.45
LowerTrib	2623.993	10-yr	31.46	154.74	2.17	6687.4	6690.88	6690.74	6691.12	0.01271	4.28	68.06	129.33	0.95	4.53	0.41
LowerTrib	2623.993	25-yr	58.79	188.49	11.58	6687.4	6691.09	6690.95	6691.33	0.012185	4.57	97.88	153.75	0.87	4.34	0.48
LowerTrib	2623.993	50-yr	70.67	201.34	16.8	6687.4	6691.16	6691.01	6691.41	0.012064	4.68	110.58	190.04	0.92	4.27	0.44
LowerTrib	2623.993	100-yr	88.08	217.99	24.08	6687.4	6691.27	6691.1	6691.51	0.011758	4.79	131.65	215.36	0.9	4.18	0.45
LowerTrib	2400	2-yr		66		6684.41	6685.29	6685.29	6685.64	0.042663	4.74	13.92	20.29	1.01	0.51	1.81
LowerTrib	2400	5-yr		135.77		6684.41	6685.75	6685.75	6686.24	0.037394	5.66	23.98	24.2	1	0.74	2.28
LowerTrib	2400	10-yr		188.38		6684.41	6686	6686	6686.6	0.036214	6.17	30.54	26.44	1.01	0.88	2.57
LowerTrib	2400	25-yr		258.86		6684.41	6686.31	6686.31	6686.99	0.034413	6.64	39	29.07	1.01	1.03	2.84
LowerTrib	2400	50-yr		288.81		6684.41	6686.43	6686.43	6687.15	0.03355	6.78	42.57	30.11	1.01	1.08	2.91

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	2400	100-yr		330.15		6684.41	6686.58	6686.58	6687.34	0.032903	7	47.19	31.41	1.01	1.15	3.04
LowerTrib	2239.262	2-yr		66		6682.37	6684.62		6684.64	0.000823	1.09	60.47	41.3	0.16	0.08	0.07
LowerTrib	2239.262	5-yr	0	135.77		6682.37	6685.18		6685.22	0.001318	1.59	85.33	48.53	0.21	0.13	0.14
LowerTrib	2239.262	10-yr	0.31	188.08		6682.37	6685.46		6685.51	0.001657	1.91	99.82	58.25	0.26	0.15	0.18
LowerTrib	2239.262	25-yr	1.89	256.97	0	6682.37	6685.74		6685.82	0.00204	2.28	118.74	79.34	0.33	0.18	0.19
LowerTrib	2239.262	50-yr	3.36	285.44	0.02	6682.37	6685.84		6685.93	0.002174	2.43	127.27	90.04	0.36	0.18	0.19
LowerTrib	2239.262	100-yr	5.9	324.12	0.13	6682.37	6685.96		6686.06	0.002388	2.63	138.51	104.85	0.4	0.2	0.2
LowerTrib	2193.74	2-yr		66		6681.73	6684.48		6684.56	0.004875	2.2	30.03	26.2	0.36	0.31	0.33
LowerTrib	2193.74	5-yr	2.99	132.77	0.02	6681.73	6684.95		6685.1	0.00702	3.06	48.57	58.55	0.58	0.41	0.36
LowerTrib	2193.74	10-yr	9.01	176.32	3.05	6681.73	6685.18		6685.36	0.00754	3.49	66.88	89.84	0.69	0.41	0.34
LowerTrib	2193.74	25-yr	17.56	228.69	12.61	6681.73	6685.43		6685.64	0.007972	3.94	91.93	117	0.74	0.41	0.39
LowerTrib	2193.74	50-yr	22.18	248.71	17.93	6681.73	6685.52		6685.75	0.008036	4.08	103.36	129.8	0.75	0.41	0.4
LowerTrib	2193.74	100-yr	30.81	274.08	25.26	6681.73	6685.63		6685.87	0.008217	4.27	117.66	139.5	0.75	0.4	0.43
LowerTrib	2166.781	2-yr	3.07	62.93		6681.2	6683.97	6683.97	6684.25	0.043027	4.29	17.31	37.61	1.09	0.3	1.13
LowerTrib	2166.781	5-yr	18.27	117.5	0	6681.2	6684.3	6684.3	6684.69	0.04226	5.3	30.64	44.24	1.06	0.19	1.7
LowerTrib	2166.781	10-yr	31.75	156	0.63	6681.2	6684.51	6684.51	6684.95	0.037836	5.75	41.06	55.29	1.09	0.25	1.65
LowerTrib	2166.781	25-yr	51.8	202.45	4.61	6681.2	6684.76	6684.76	6685.23	0.032641	6.1	56.48	67.39	1.06	0.33	1.62
LowerTrib	2166.781	50-yr	60.29	220.96	7.57	6681.2	6684.85	6684.85	6685.34	0.031502	6.25	63.7	94.64	1.2	0.37	1.28
LowerTrib	2166.781	100-yr	72.27	243.36	14.51	6681.2	6684.98	6684.98	6685.46	0.028761	6.32	78.04	118.69	1.21	0.39	1.15
LowerTrib	2136.729	2-yr		66		6679.49	6682.31		6682.38	0.003177	2.05	32.25	23.19	0.31	0.06	0.27
LowerTrib	2136.729	5-yr	3.62	131.83	0.32	6679.49	6684		6684.04	0.000897	1.59	94.02	65.61	0.23	0.03	0.08
LowerTrib	2136.729	10-yr	4.94	183.03	0.41	6679.49	6683.99		6684.06	0.001752	2.22	93.39	64.89	0.32	0.05	0.16
LowerTrib	2136.729	25-yr	6.64	251.73	0.49	6679.49	6683.97		6684.12	0.003377	3.07	92.51	63.87	0.44	0.11	0.3
LowerTrib	2136.729	50-yr	7.37	280.92	0.52	6679.49	6683.97		6684.15	0.004225	3.43	92.29	63.62	0.5	0.14	0.38
LowerTrib	2136.729	100-yr	8.78	320.58	0.78	6679.49	6684		6684.22	0.005312	3.88	93.96	65.54	0.56	0.14	0.47
LowerTrib	2107.71	2-yr		66		6678.58	6682.29	6680.03	6682.32	0.000766	1.5	44.08	72.09	0.16		0.12
LowerTrib	2107.71	5-yr		135.77		6678.58	6683.95	6680.71	6684.01	0.000639	1.89	71.75	145.47	0.16		0.16
LowerTrib	2107.71	10-yr		188.38		6678.58	6683.9	6681.1	6684.01	0.001283	2.66	70.84	143.7	0.23		0.32
LowerTrib	2107.71	25-yr		258.86		6678.58	6683.79	6681.6	6684.01	0.002642	3.75	69.03	137.41	0.32		0.63
LowerTrib	2107.71	50-yr		288.81		6678.58	6683.73	6681.77	6684.01	0.003458	4.25	68	136.28	0.37		0.82
LowerTrib	2107.71	100-yr	24.49	189.93	115.72	6678.58	6684.03	6681.96	6684.08	0.000932	2.16	273.65	148.01	0.22		0.11
LowerTrib	2073.649		Culvert													
LowerTrib	2032.349	2-yr		66		6676.31	6677.68	6677.68	6678.06	0.013954	4.96	13.3	18.07	0.98	0.55	0.68
LowerTrib	2032.349	5-yr		135.77		6676.31	6678.19	6678.19	6678.77	0.012175	6.15	22.08	21.59	0.98	0.5	0.91
LowerTrib	2032.349	10-yr		188.38		6676.31	6678.48	6678.48	6679.21	0.011895	6.83	27.56	23.38	1	0.5	1.06

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	2032.349	25-yr		258.86		6676.31	6678.84	6678.84	6679.71	0.011326	7.49	34.58	25.56	1	0.52	1.2
LowerTrib	2032.349	50-yr		288.81		6676.31	6679	6679	6679.91	0.010751	7.63	37.86	26.54	0.99	0.51	1.22
LowerTrib	2032.349	100-yr		330.15		6676.31	6679.17	6679.17	6680.16	0.010904	8.01	41.22	27.53	1	0.47	1.31
LowerTrib	1984.905	2-yr	2.58	63.42		6674.87	6676.4	6676.29	6676.77	0.009549	4.94	15.22	17.24	0.91	3.58	0.52
LowerTrib	1984.905	5-yr	9.4	126.27	0.1	6674.87	6677.05	6676.87	6677.56	0.007906	5.97	28.08	22.7	0.91	3.77	0.6
LowerTrib	1984.905	10-yr	14.95	172.99	0.44	6674.87	6677.3	6677.22	6678.01	0.009214	7.09	33.97	24.87	1.03	4	0.77
LowerTrib	1984.905	25-yr	23.82	233.58	1.46	6674.87	6677.62	6677.62	6678.56	0.009875	8.16	42.47	27.91	1.11	4.14	0.92
LowerTrib	1984.905	50-yr	28.27	258.31	2.23	6674.87	6677.77	6677.77	6678.76	0.009613	8.43	46.9	29.38	1.11	3.95	0.94
LowerTrib	1984.905	100-yr	35.18	291.23	3.74	6674.87	6678.01	6678.01	6679.03	0.008875	8.63	54.08	31.6	1.1	3.67	0.93
LowerTrib	1599.971	2-yr		66		6671.22	6672.91		6673.18	0.008938	4.17	15.81	18.44	0.79	1.84	0.47
LowerTrib	1599.971	5-yr		135.77		6671.22	6673.38	6673.31	6673.8	0.012263	5.21	26.08	27.81	0.95	2.02	0.71
LowerTrib	1599.971	10-yr		181.96	6.42	6671.22	6673.7	6673.7	6674.02	0.011079	4.6	50.93	120.84	1.23	1.86	0.29
LowerTrib	1599.971	25-yr	0	237.58	21.28	6671.22	6673.88	6673.88	6674.23	0.010731	4.96	73	135.92	1.14	1.83	0.36
LowerTrib	1599.971	50-yr	0.02	263.02	25.77	6671.22	6673.96	6673.96	6674.32	0.009923	5.04	85.35	173.25	1.21	1.78	0.3
LowerTrib	1599.971	100-yr	0.13	290.6	39.42	6671.22	6674.05	6674.05	6674.41	0.009182	5.13	101.29	181.7	1.14	1.73	0.32
LowerTrib	1286.198	2-yr		65.74	0.26	6669.25	6671.25		6671.34	0.003947	2.5	27.47	51.65	0.6	0.17	0.13
LowerTrib	1286.198	5-yr	1.3	127.09	7.38	6669.25	6671.64		6671.77	0.003688	3.04	61.62	128.86	0.75	0.18	0.11
LowerTrib	1286.198	10-yr	5.19	166.67	16.53	6669.25	6671.83		6671.99	0.003542	3.35	90.1	162.91	0.75	0.19	0.12
LowerTrib	1286.198	25-yr	12.72	214.35	31.79	6669.25	6672.04		6672.21	0.003496	3.69	126.2	191.85	0.73	0.2	0.14
LowerTrib	1286.198	50-yr	16.18	233.94	38.69	6669.25	6672.11		6672.3	0.003509	3.83	141.19	206.83	0.74	0.21	0.15
LowerTrib	1286.198	100-yr	22.1	259.57	48.47	6669.25	6672.21		6672.41	0.003498	3.99	162.48	225.35	0.74	0.21	0.16
LowerTrib	1221.072	2-yr	0.78	56.07	9.16	6669.15	6671.12		6671.17	0.001668	1.92	53.33	92.1	0.41	0.14	0.06
LowerTrib	1221.072	5-yr	2.98	105.32	27.48	6669.15	6671.51		6671.59	0.001834	2.54	95.34	125.41	0.46	0.15	0.09
LowerTrib	1221.072	10-yr	3.58	142.61	42.2	6669.15	6671.68		6671.79	0.002241	3.05	120.79	183.21	0.58	0.17	0.09
LowerTrib	1221.072	25-yr	11.62	184.05	63.18	6669.15	6671.87		6672.01	0.002504	3.49	157.03	196.54	0.59	0.19	0.12
LowerTrib	1221.072	50-yr	15.64	200.44	72.74	6669.15	6671.94		6672.09	0.002587	3.65	171.18	200.56	0.59	0.19	0.14
LowerTrib	1221.072	100-yr	21.68	222.16	86.31	6669.15	6672.04		6672.2	0.002668	3.84	190.43	205.91	0.58	0.19	0.15
LowerTrib	1163.529	2-yr	0.01	64.48	1.51	6668.68	6670.93		6671.03	0.003715	2.49	30.53	65.14	0.63	0.38	0.11
LowerTrib	1163.529	5-yr	4.1	119.4	12.27	6668.68	6671.32		6671.44	0.003561	2.98	72.38	146	0.7	0.31	0.11
LowerTrib	1163.529	10-yr	9.96	156.27	22.15	6668.68	6671.47		6671.62	0.004058	3.38	95.78	163.18	0.71	0.28	0.15
LowerTrib	1163.529	25-yr	18.86	202.14	37.86	6668.68	6671.65		6671.82	0.004186	3.78	126.19	179.95	0.71	0.25	0.18
LowerTrib	1163.529	50-yr	22.95	219.35	46.51	6668.68	6671.72		6671.9	0.004087	3.88	139.81	182.15	0.69	0.23	0.19
LowerTrib	1163.529	100-yr	28.74	242.47	58.94	6668.68	6671.82		6672.01	0.003952	4	158.19	185.08	0.66	0.22	0.21
LowerTrib	1111.341	2-yr		66		6668.28	6670.27	6670.27	6670.65	0.01534	4.9	13.47	18.3	1.01	0.43	0.68
LowerTrib	1111.341	5-yr	0.54	132.52	2.71	6668.28	6670.87	6670.83	6671.14	0.009896	4.22	39.23	119.5	1.28	0.53	0.2
LowerTrib	1111.341	10-yr	6.94	168.58	12.86	6668.28	6671.1	6671.02	6671.34	0.006886	4.16	69.98	141.49	0.99	0.52	0.21

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Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # XS	Headloss (ft)	Shear Total (lb/sq ft)
LowerTrib	1111.341	25-yr	17.67	210.66	30.53	6668.28	6671.36		6671.58	0.005109	4.16	108.93	157.64	0.8	0.52	0.22
LowerTrib	1111.341	50-yr	22.16	227.99	38.67	6668.28	6671.45		6671.67	0.00475	4.2	123.75	161.94	0.76	0.52	0.22
LowerTrib	1111.341	100-yr	28.3	251.76	50.09	6668.28	6671.57		6671.79	0.004425	4.28	142.99	167.72	0.72	0.53	0.23
LowerTrib	1008.56	2-yr	1.15	46.54	18.31	6667.33	6670.12		6670.19	0.001375	2.54	56.04	71.52	0.43	0.14	0.07
LowerTrib	1008.56	5-yr	3.98	88.8	42.99	6667.33	6670.43		6670.61	0.002895	4.11	86.28	130.24	0.73	0.17	0.12
LowerTrib	1008.56	10-yr	9.46	115.2	63.72	6667.33	6670.59		6670.82	0.003828	4.96	108.54	157.84	0.83	0.21	0.16
LowerTrib	1008.56	25-yr	19.73	145.76	93.36	6667.33	6670.76	6670.58	6671.06	0.004773	5.82	138.61	190.86	0.91	0.24	0.22
LowerTrib	1008.56	50-yr	24.49	158.31	106.02	6667.33	6670.81	6670.68	6671.15	0.005227	6.18	149.14	201.3	0.95	0.26	0.24
LowerTrib	1008.56	100-yr	31.54	174.77	123.84	6667.33	6670.88	6670.77	6671.25	0.005814	6.64	163.26	214.66	0.99	0.28	0.27
LowerTrib	961.3436	2-yr	0.05	50.38	15.56	6667.64	6669.83	6669.83	6670.05	0.007555	4.28	34.16	95.3	1.1	0.18	0.17
LowerTrib	961.3436	5-yr	3.73	68.89	63.16	6667.64	6670.3		6670.43	0.004248	4.08	109.67	226.19	0.75	0.1	0.13
LowerTrib	961.3436	10-yr	11.08	77.34	99.95	6667.64	6670.51		6670.62	0.0035	4.03	158.64	241.67	0.58	0.09	0.14
LowerTrib	961.3436	25-yr	21.22	89.32	148.32	6667.64	6670.72		6670.82	0.003169	4.15	212.46	270.16	0.5	0.08	0.15
LowerTrib	961.3436	50-yr	25.15	95.48	168.18	6667.64	6670.79		6670.89	0.00327	4.3	229.41	283.54	0.51	0.09	0.16
LowerTrib	961.3436	100-yr	30.86	103.41	195.88	6667.64	6670.87		6670.98	0.003345	4.47	253.99	295.07	0.5	0.09	0.18
LowerTrib	933.4749	2-yr		39.81	26.19	6667.28	6669.59		6669.71	0.004018	3.46	42.58	64.38	0.59	0.39	0.16
LowerTrib	933.4749	5-yr	1.29	60.28	74.2	6667.28	6670.24		6670.33	0.002509	3.51	131.74	243.52	0.57	0.36	0.08
LowerTrib	933.4749	10-yr	5.06	69.56	113.76	6667.28	6670.45		6670.53	0.002382	3.66	187.85	285.4	0.5	0.25	0.1
LowerTrib	933.4749	25-yr	10.79	80.91	167.16	6667.28	6670.66		6670.74	0.002348	3.87	252.25	302.64	0.44	0.22	0.12
LowerTrib	933.4749	50-yr	12.88	85.24	190.7	6667.28	6670.72		6670.8	0.002391	3.97	271.01	302.64	0.42	0.22	0.13
LowerTrib	933.4749	100-yr	15.9	90.56	223.69	6667.28	6670.81		6670.89	0.002402	4.08	297.17	302.64	0.4	0.23	0.15
LowerTrib	878.9512	2-yr		45.55	20.45	6667.13	6669.01	6668.94	6669.32	0.013392	5.25	21.06	27.34	0.89	1.1	0.62
LowerTrib	878.9512	5-yr	0.43	90.71	44.63	6667.13	6669.36	6669.36	6669.97	0.020272	7.51	32.26	40.69	1.24	1.41	0.98
LowerTrib	878.9512	10-yr	5.81	109.87	72.7	6667.13	6669.94	6669.94	6670.28	0.007951	6.12	89.36	155.94	1.1	0.86	0.28
LowerTrib	878.9512	25-yr	11.29	127.12	120.45	6667.13	6670.23	6670.23	6670.52	0.006383	6.08	143.45	208.64	0.92	0.75	0.27
LowerTrib	878.9512	50-yr	13.17	133.54	142.1	6667.13	6670.29	6670.29	6670.58	0.006327	6.18	158.7	247.02	0.94	0.75	0.25
LowerTrib	878.9512	100-yr	16.31	144.83	169.01	6667.13	6670.36	6670.36	6670.66	0.006776	6.52	173.88	251.82	0.94	0.78	0.29
LowerTrib	799.5139	2-yr		15.71	50.29	6667.02	6668.16	6668.11	6668.22	0.012421	3.61	54.93	159.74	0.59		0.27
LowerTrib	799.5139	5-yr		23.94	111.84	6667.02	6668.37	6668.23	6668.43	0.012428	3.76	90.67	175.18	0.49		0.4
LowerTrib	799.5139	10-yr		30.52	157.86	6667.02	6668.49	6668.3	6668.56	0.012428	3.92	112.71	192.28	0.48		0.45
LowerTrib	799.5139	25-yr		39.48	219.38	6667.02	6668.63	6668.37	6668.7	0.012416	4.11	140.55	218.26	0.49		0.5
LowerTrib	799.5139	50-yr		43.38	245.43	6667.02	6668.68	6668.41	6668.76	0.01243	4.19	151.64	222.79	0.49		0.53
LowerTrib	799.5139	100-yr		48.85	281.29	6667.02	6668.74	6668.45	6668.83	0.012404	4.29	166.52	228.73	0.49		0.56

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
LowerTrib	32376.64 Culvert #1	2-yr	7155.24	7155.23	7154.91	7155.24	7158.41	38		2.22	5.65	6.84
LowerTrib	32376.64 Culvert #1	5-yr	7156.11	7156.09	7155.76	7156.11	7158.41	67		2.81	6.76	7.94
LowerTrib	32376.64 Culvert #1	10-yr	7156.72	7156.7	7156.39	7156.72	7158.41	90		3.22	7.5	8.57
LowerTrib	32376.64 Culvert #1	25-yr	7158.01	7157.99	7157.77	7158.01	7158.41	140		4.12	9.06	9.38
LowerTrib	32376.64 Culvert #1	50-yr	7158.48	7158.46	7158.48	7158.42	7158.41	156.07	13.93	4.39	8.11	10.55
LowerTrib	32376.64 Culvert #1	100-yr	7158.64	7158.61	7158.64	7158.48	7158.41	159.45	42.77	4.34	8.29	10.75
LowerTrib	31486 Culvert #1	2-yr	7133.38	7133.37	7133.02	7133.38	7136.01	38		4.68	7.06	10.57
LowerTrib	31486 Culvert #1	5-yr	7134.88	7134.87	7134.58	7134.88	7136.01	67		5.86	8.86	12.11
LowerTrib	31486 Culvert #1	10-yr	7136.03	7136.03	7136.03	7135.78	7136.01	83.55	5.65	6.81	8.68	13.19
LowerTrib	31486 Culvert #1	25-yr	7136.13	7136.13	7136.13	7135.83	7136.01	84.53	52.81	6.5	8.79	13.37
LowerTrib	31486 Culvert #1	50-yr	7136.17	7136.17	7136.17	7135.86	7136.01	84.98	83.57	6.3	8.83	13.39
LowerTrib	31486 Culvert #1	100-yr	7136.22	7136.21	7136.22	7135.88	7136.01	85.39	116.01	6.14	8.88	13.43
LowerTrib	28298.89 Culvert #1	2-yr	7080.63	7080.6	7080.51	7080.63	7085.01	74		3.46	5.83	7.33
LowerTrib	28298.89 Culvert #1	5-yr	7081.45	7081.41	7081.31	7081.45	7085.01	130		3.78	7.04	8.8
LowerTrib	28298.89 Culvert #1	10-yr	7081.96	7081.91	7081.86	7081.96	7085.01	170		3.99	7.7	9.55
LowerTrib	28298.89 Culvert #1	25-yr	7083.19	7083.13	7083.78	7083.19	7085.01	270		4.75	9	9
LowerTrib	28298.89 Culvert #1	50-yr	7085.14	7085.13	7085.07	7085.14	7085.01	314.92	15.08	6.37	10.5	10.5
LowerTrib	28298.89 Culvert #1	100-yr	7085.41	7085.4	7085.3	7085.41	7085.01	312.13	77.87	6.26	10.4	10.4
LowerTrib	26454.70 Culvert #1	2-yr	7042.16	7042.11	7041.66	7042.16	7053.01	97		4.04	8.06	13.13
LowerTrib	26454.70 Culvert #1	5-yr	7043.97	7043.93	7043.33	7043.97	7053.01	180		5.02	9.97	15.19
LowerTrib	26454.70 Culvert #1	10-yr	7045.38	7045.34	7044.64	7045.38	7053.01	250		5.89	11.44	16.39
LowerTrib	26454.70 Culvert #1	25-yr	7048.86	7048.83	7048.75	7048.86	7053.01	410		8.6	15.34	18.5
LowerTrib	26454.70 Culvert #1	50-yr	7052	7051.98	7052	7051.33	7053.01	500		11.44	17.68	20.49
LowerTrib	26454.70 Culvert #1	100-yr	7053.23	7053.22	7053.23	7052.73	7053.01	530.17	53.5	12.1	18.75	21.23
LowerTrib	23413.07 Culvert #1	2-yr	6997.79	6997.79	6988.71	6997.79	7002.01	97		15.26	8.82	9.09
LowerTrib	23413.07 Culvert #1	5-yr	7002.28	7002.28	6994.74	7002.28	7002.01	113.6	65.47	19.34	10.33	10.46
LowerTrib	23413.07 Culvert #1	10-yr	7002.45	7002.45	7002.04	7002.45	7002.01	114.16	135.15	19.01	10.38	10.51
LowerTrib	23413.07 Culvert #1	25-yr	7002.74	7002.74	7002.52	7002.74	7002.01	115.16	294.84	18.64	10.47	10.6
LowerTrib	23413.07 Culvert #1	50-yr	7002.86	7002.86	7002.66	7002.86	7002.01	115.57	383.43	18.27	10.5	10.64
LowerTrib	23413.07 Culvert #1	100-yr	7002.98	7002.97	7002.79	7002.98	7002.01	115.94	466.33	17.57	10.54	10.68
LowerTrib	21604.86 Culvert #1	2-yr	6949.96	6949.95	6949.57	6949.96	6962.01	104		3.99	4.41	6.55
LowerTrib	21604.86 Culvert #1	5-yr	6951.4	6951.38	6950.91	6951.4	6962.01	204		4.91	5.88	8.37
LowerTrib	21604.86 Culvert #1	10-yr	6952.62	6952.59	6951.99	6952.62	6962.01	284		5.74	7.11	9.62
LowerTrib	21604.86 Culvert #1	25-yr	6957.26	6957.23	6955.73	6957.26	6962.01	473		9.66	11.81	12.79
LowerTrib	21604.86 Culvert #1	50-yr	6960.76	6960.73	6958.61	6960.76	6962.01	583		12.79	14.56	15.03
LowerTrib	21604.86 Culvert #1	100-yr	6962.17	6962.16	6962.01	6962.17	6962.01	622.47	70.53	13.9	15.54	15.91

Falcon DBPS
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Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
LowerTrib	18205.02 Culvert #2	2-yr	6900.21	6900.18	6897.89	6900.2	6902.22	3.65		3.26	4.65	4.65
LowerTrib	18205.02 Culvert #1	2-yr	6900.21	6900.18	6899.88	6900.21	6902.22	101.35		3.26	7.85	8.23
LowerTrib	18205.02 Culvert #2	5-yr	6902.27	6902.24	6897.97	6902.25	6902.22	3.77	24.8	3.49	4.8	4.8
LowerTrib	18205.02 Culvert #1	5-yr	6902.27	6902.24	6901.73	6902.27	6902.22	157.43	24.8	3.49	8.18	8.18
LowerTrib	18205.02 Culvert #2	10-yr	6902.64	6902.61	6897.65	6902.64	6902.22	3.27	106.5	2.6	4.16	4.16
LowerTrib	18205.02 Culvert #1	10-yr	6902.64	6902.61	6900.81	6902.64	6902.22	136.23	106.5	2.6	7.08	7.08
LowerTrib	18205.02 Culvert #2	25-yr	6903.15	6903.1	6897.35	6903.13	6902.22	2.55	270.64	1.56	3.25	3.25
LowerTrib	18205.02 Culvert #1	25-yr	6903.15	6903.1	6900.03	6903.15	6902.22	106.81	270.64	1.56	5.55	5.55
LowerTrib	18205.02 Culvert #2	50-yr	6903.29	6903.22	6897.39	6903.27	6902.22	2.65	340.39	1.68	3.38	3.38
LowerTrib	18205.02 Culvert #1	50-yr	6903.29	6903.22	6900.14	6903.29	6902.22	110.96	340.39	1.68	5.77	5.77
LowerTrib	18205.02 Culvert #2	100-yr	6903.53	6903.44	6897.45	6903.55	6902.22	2.85	437.38	1.88	3.62	3.62
LowerTrib	18205.02 Culvert #1	100-yr	6903.53	6903.44	6900.33	6903.53	6902.22	117.78	437.38	1.88	6.12	6.12
LowerTrib	18092.76 Culvert #1	2-yr	6896.9	6896.8	6896.44	6896.9	6901.51	105		1.56	8.27	6.15
LowerTrib	18092.76 Culvert #1	5-yr	6898.75	6898.65	6898.17	6898.75	6901.51	186		2.69	10.09	8.79
LowerTrib	18092.76 Culvert #1	10-yr	6900	6899.92	6899.48	6900	6901.51	246		3.61	11.22	10.69
LowerTrib	18092.76 Culvert #1	25-yr	6901.51	6901.4	6901.51	6900.65	6901.51	282.25	450.7	4.6	9.98	15.62
LowerTrib	18092.76 Culvert #1	50-yr	6901.51	6901.35	6901.51	6900.64	6901.51	282.25	450.7	4.36	9.98	15.62
LowerTrib	18092.76 Culvert #1	100-yr	6901.51	6901.26	6901.51	6900.65	6901.51	282.25	450.7	4.08	9.98	15.62
LowerTrib	14215.60 Culvert #1	2-yr	6851.03	6850.98	6850.93	6851.03	6858.01	26		6.97	2.09	3.27
LowerTrib	14215.60 Culvert #1	5-yr	6851.3	6851.21	6851.18	6851.3	6858.01	47		6.94	2.73	3.98
LowerTrib	14215.60 Culvert #1	10-yr	6851.66	6851.52	6851.52	6851.66	6858.01	81		6.91	3.46	4.77
LowerTrib	14215.60 Culvert #1	25-yr	6852.63	6852.42	6852.46	6852.63	6858.01	200		6.93	5.04	6.45
LowerTrib	14215.60 Culvert #1	50-yr	6853.23	6852.98	6853.05	6853.23	6858.01	290		7.01	5.84	7.3
LowerTrib	14215.60 Culvert #1	100-yr	6853.83	6853.54	6853.64	6853.83	6858.01	390		7.06	6.56	8.06
LowerTrib	12425.19 Culvert #1	2-yr	6818.34	6818.34	6818.33	6818.34	6818.01	0.79	25.81	7.66	2.22	2.47
LowerTrib	12425.19 Culvert #1	5-yr	6818.43	6818.43	6818.38	6818.43	6818.01	0.8	47.47	7.46	2.24	2.5
LowerTrib	12425.19 Culvert #1	10-yr	6818.54	6818.54	6818.53	6818.54	6818.01	0.81	82.76	7.32	2.27	2.53
LowerTrib	12425.19 Culvert #1	25-yr	6818.79	6818.79	6818.78	6818.79	6818.01	0.84	199.1	6.97	2.34	2.61
LowerTrib	12425.19 Culvert #1	50-yr	6818.94	6818.94	6818.94	6818.94	6818.01	0.85	291.71	6.72	2.38	2.65
LowerTrib	12425.19 Culvert #1	100-yr	6819.08	6819.07	6819.08	6819.08	6818.01	0.86	389.07	6.54	2.41	2.69
LowerTrib	8304.048 Culvert #1	2-yr	6767.58	6767.58	6766.96	6767.58	6767.76	49		3.54	6.38	7.12
LowerTrib	8304.048 Culvert #1	5-yr	6768.2	6768.2	6768.19	6768.2	6767.76	55.17	46.07	3.64	7.19	7.74
LowerTrib	8304.048 Culvert #1	10-yr	6768.2	6768.19	6768.2	6768.2	6767.76	55.17	46.15	3.38	7.19	7.74
LowerTrib	8304.048 Culvert #1	25-yr	6768.2	6768.18	6768.2	6768.2	6767.76	55.17	422.05	3.01	7.19	7.74
LowerTrib	8304.048 Culvert #1	50-yr	6768.2	6768.17	6768.2	6768.2	6767.76	55.17	422.05	2.83	7.19	7.57
LowerTrib	8304.048 Culvert #1	100-yr	6768.2	6768.14	6768.19	6768.2	6767.76	54.19	422.05	2.62	7.06	7.06

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs
Culverts

Reach	River Sta	Profile	E.G. US. (ft)	W.S. US. (ft)	E.G. IC (ft)	E.G. OC (ft)	Min El Weir Flow (ft)	Q Culv Group (cfs)	Q Weir (cfs)	Delta WS (ft)	Culv Vel US (ft/s)	Culv Vel DS (ft/s)
LowerTrib	6243.929 Culvert #1	2-yr	6730.41	6730.33	6730.06	6730.41	6732.01	62		1.91	5.73	8.02
LowerTrib	6243.929 Culvert #1	5-yr	6732.17	6732.17	6732.16	6732.17	6732.01	92.07	48.93	3.29	7.93	9.67
LowerTrib	6243.929 Culvert #1	10-yr	6732.28	6732.28	6732.26	6732.28	6732.01	93.49	108.44	3.2	8.06	9.53
LowerTrib	6243.929 Culvert #1	25-yr	6732.49	6732.49	6732.49	6732.49	6732.01	94.88	275.12	3.03	8.17	8.73
LowerTrib	6243.929 Culvert #1	50-yr	6732.66	6732.66	6732.64	6732.66	6732.01	92.25	437.75	2.74	7.95	7.95
LowerTrib	6243.929 Culvert #1	100-yr	6732.75	6732.75	6732.78	6732.75	6732.01	92.83	587.17	2.77	8	8
LowerTrib	5333.859 Culvert #1	2-yr	6722.11	6722.11	6722.1	6722.11	6722.01	14.19	47.32	4.75	5.78	6.36
LowerTrib	5333.859 Culvert #1	5-yr	6722.21	6722.21	6722.2	6722.21	6722.01	14.42	126.17	4	5.87	6.47
LowerTrib	5333.859 Culvert #1	10-yr	6722.27	6722.26	6722.26	6722.27	6722.01	14.56	184.62	3.53	5.93	6.53
LowerTrib	5333.859 Culvert #1	25-yr	6722.41	6722.4	6722.4	6722.41	6722.01	13.15	357.02	2.62	5.35	5.35
LowerTrib	5333.859 Culvert #1	50-yr	6722.52	6722.51	6722.52	6722.52	6722.01	11.67	521.44	2.19	4.75	4.75
LowerTrib	5333.859 Culvert #1	100-yr	6722.61	6722.59	6722.61	6722.61	6722.01	11.14	665.45	1.92	4.53	4.53
LowerTrib	2073.649 Culvert #1	2-yr	6682.32	6682.29	6682.05	6682.32	6684.01	66		4.61	7.83	8.23
LowerTrib	2073.649 Culvert #1	5-yr	6684.01	6683.95	6684.01	6684.01	6684.01	99.55	196.8	5.77	8.58	10.08
LowerTrib	2073.649 Culvert #1	10-yr	6684.01	6683.9	6684.01	6684.01	6684.01	99.55	196.8	5.42	8.58	10.08
LowerTrib	2073.649 Culvert #1	25-yr	6684.01	6683.79	6684.01	6684.01	6684.01	99.55	196.8	4.95	8.58	10.08
LowerTrib	2073.649 Culvert #1	50-yr	6684.01	6683.73	6684.01	6684.01	6684.01	99.55	196.8	4.72	8.58	10.08
LowerTrib	2073.649 Culvert #1	100-yr	6684.07	6684.03	6684.07	6684.11	6684.01	100.38	224.02	4.87	8.65	10.13

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs
Bridges

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
LowerTrib	14388.5*	2-yr	6852.91	6852.86		0.03	0.01	33	0	26		1.71
LowerTrib	14388.5*	5-yr	6853.2	6853.14		0.03	0.01	54.54	0.6	46.25	0.15	1.89
LowerTrib	14388.5*	10-yr	6853.54	6853.47		0.03	0.01	71.23	4.21	75.43	1.36	2.13
LowerTrib	14388.5*	25-yr	6854.32	6854.22		0.03	0	109.09	25.64	162.36	12	2.68
LowerTrib	14388.5*	50-yr	6854.76	6854.67		0.03	0	122.21	47.51	216.67	25.82	2.88
LowerTrib	14388.5*	100-yr	6855.2	6855.1		0.03	0.01	124.5	74.84	269.55	45.61	3
LowerTrib	14383.59	2-yr	6852.87	6852.85	6852.26			46.5	1.22	24.57	0.21	1.04
LowerTrib	14383.59	5-yr	6853.15	6853.13	6852.44			55.01	3.38	42.69	0.93	1.38
LowerTrib	14383.59	10-yr	6853.49	6853.45	6852.63			62.39	8.31	70.08	2.61	1.76
LowerTrib	14383.59	25-yr	6854.28	6854.2	6853.13			77.11	30.46	156.04	13.51	2.6
LowerTrib	14383.59	50-yr	6854.73	6854.62	6853.44			78.29	49.35	214.56	26.09	3.01
LowerTrib	14383.59	100-yr	6855.17	6855.04	6853.73			79.43	71.14	277.57	41.29	3.37
LowerTrib	14364.16BR U	2-yr	6852.81	6852.78	6852.3			35.24	1.4	24.37	0.22	1.37
LowerTrib	14364.16BR U	5-yr	6853.09	6853.04	6852.51			42.36	3.95	42.2	0.86	1.8
LowerTrib	14364.16BR U	10-yr	6853.41	6853.34	6852.73			49.63	9.45	69.14	2.4	2.29
LowerTrib	14364.16BR U	25-yr	6854.18	6854.04	6853.3			57.19	34.72	152.46	12.82	3.35
LowerTrib	14364.16BR U	50-yr	6854.63	6854.45	6853.56			57.19	55.47	210.48	24.05	3.87
LowerTrib	14364.16BR U	100-yr	6855.06	6854.84	6853.86			57.19	79.31	273.03	37.66	4.33
LowerTrib	14364.16BR D	2-yr	6852.77	6852.73	6852.34			31.89	0.4	25.6		1.46
LowerTrib	14364.16BR D	5-yr	6853.03	6852.98	6852.52			36.9	1.33	45.67		1.87
LowerTrib	14364.16BR D	10-yr	6853.35	6853.27	6852.75			40.73	3.31	77.69		2.29
LowerTrib	14364.16BR D	25-yr	6854.13	6853.97	6853.27			51.87	12.27	186.84	0.89	3.26
LowerTrib	14364.16BR D	50-yr	6854.58	6854.39	6853.54			54.32	21.61	264.37	4.02	3.71
LowerTrib	14364.16BR D	100-yr	6855.02	6854.79	6853.84			55.94	32.94	347.87	9.19	4.1
LowerTrib	14346.1	2-yr	6852.64	6852.61	6852.3	0.59	0	35.98	0.36	25.64		1.52
LowerTrib	14346.1	5-yr	6852.88	6852.83	6852.46	0.61	0.01	41.49	1.36	45.64		1.9
LowerTrib	14346.1	10-yr	6853.2	6853.12	6852.67	0.59	0.01	46.99	3.85	77.15		2.26
LowerTrib	14346.1	25-yr	6853.97	6853.84	6853.15	0.51	0.02	59.22	14.05	185.57	0.37	2.94
LowerTrib	14346.1	50-yr	6854.42	6854.27	6853.43	0.45	0.02	65.25	22.3	265.47	2.23	3.28
LowerTrib	14346.1	100-yr	6854.86	6854.68	6853.65	0.39	0.02	69.12	33.34	351.15	5.51	3.59
LowerTrib	14306.18	2-yr	6852.04	6851.99		1.01	0	31.65		26	0	1.81
LowerTrib	14306.18	5-yr	6852.28	6852.2		0.97	0	32.59		46.93	0.07	2.22
LowerTrib	14306.18	10-yr	6852.59	6852.48		0.94	0	33.8		80.63	0.37	2.7
LowerTrib	14306.18	25-yr	6853.43	6853.22		0.8	0	46.24	0.79	196.27	2.94	3.65
LowerTrib	14306.18	50-yr	6853.95	6853.71		0.71	0.01	71.15	6.31	277.49	6.2	3.99
LowerTrib	14306.18	100-yr	6854.45	6854.21		0.6	0.02	101.88	26.06	354.41	9.53	4.13

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs
Lateral Structure - Flow Split at E. Blaney Road

Plan: Future FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 100-yr			
E.G. US. (ft)	6703.67	Weir Sta US (ft)	7
W.S. US. (ft)	6703.5	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.81	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.78	Wr Top Wdth (ft)	483.64
Q US (cfs)	710	Weir Max Depth (ft)	0.65
Q Leaving Total (cfs)	383.15	Weir Avg Depth (ft)	0.45
Q DS (cfs)	330.15	Weir Flow Area (sq ft)	219.32
Perc Q Leaving	53.5	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	383.15	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Future FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 50-yr			
E.G. US. (ft)	6703.53	Weir Sta US (ft)	7
W.S. US. (ft)	6703.36	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.73	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.7	Wr Top Wdth (ft)	466.75
Q US (cfs)	550	Weir Max Depth (ft)	0.56
Q Leaving Total (cfs)	261.17	Weir Avg Depth (ft)	0.36
Q DS (cfs)	288.81	Weir Flow Area (sq ft)	167.83
Perc Q Leaving	47.49	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	261.17	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Future FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 25-yr			
E.G. US. (ft)	6703.39	Weir Sta US (ft)	7
W.S. US. (ft)	6703.19	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.67	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.64	Wr Top Wdth (ft)	446.51
Q US (cfs)	410	Weir Max Depth (ft)	0.49

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs
Lateral Structure - Flow Split at E. Blaney Road

Q Leaving Total (cfs)	152.76	Weir Avg Depth (ft)	0.25
Q DS (cfs)	258.86	Weir Flow Area (sq ft)	112.6
Perc Q Leaving	36.86	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	152.76	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Future FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 10-yr			
E.G. US. (ft)	6703.16	Weir Sta US (ft)	156.21
W.S. US. (ft)	6703	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.51	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.48	Wr Top Wdth (ft)	282.73
Q US (cfs)	230	Weir Max Depth (ft)	0.34
Q Leaving Total (cfs)	41.32	Weir Avg Depth (ft)	0.12
Q DS (cfs)	188.38	Weir Flow Area (sq ft)	34.73
Perc Q Leaving	18.1	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	41.32	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Future FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 5-yr			
E.G. US. (ft)	6703.02	Weir Sta US (ft)	337.1
W.S. US. (ft)	6702.85	Weir Sta DS (ft)	555.36
E.G. DS (ft)	6693.36	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.33	Wr Top Wdth (ft)	106.53
Q US (cfs)	150	Weir Max Depth (ft)	0.21
Q Leaving Total (cfs)	14.37	Weir Avg Depth (ft)	0.13
Q DS (cfs)	135.77	Weir Flow Area (sq ft)	14.2
Perc Q Leaving	9.48	Weir Coef (ft ^{1/2})	2.5
Q Weir (cfs)	14.37	Weir Submerg	0
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	

Falcon DBPS
East Tributary Future Conditions HEC-RAS Outputs
Lateral Structure - Flow Split at E. Blaney Road

		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Plan: Future FalconCreek LowerTrib RS: 3840 Lat Struct Profile: 2-yr			
E.G. US. (ft)	6702.68	Weir Sta US (ft)	
W.S. US. (ft)	6702.42	Weir Sta DS (ft)	
E.G. DS (ft)	6693.06	Min El Weir Flow (ft)	6694
W.S. DS (ft)	6693.04	Wr Top Width (ft)	
Q US (cfs)	66	Weir Max Depth (ft)	
Q Leaving Total (cfs)	0	Weir Avg Depth (ft)	
Q DS (cfs)	66	Weir Flow Area (sq ft)	
Perc Q Leaving	0	Weir Coef (ft ^{1/2})	0
Q Weir (cfs)	0	Weir Submerg	
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)	0	Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
		Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	

Falcon DBPS
 East Trib Flow Split
 Normal Depth Calcs
 MGS
 12/9/2011

	Channel Flow	Flow Over Road
Q future	330	383 cfs
Q existing	308	316 cfs

XS 1	
Sta	Elev
0	6662
286	6660
340	6658
367	6656
396	6658
425	6660
453	6662
590	6670
646	6672

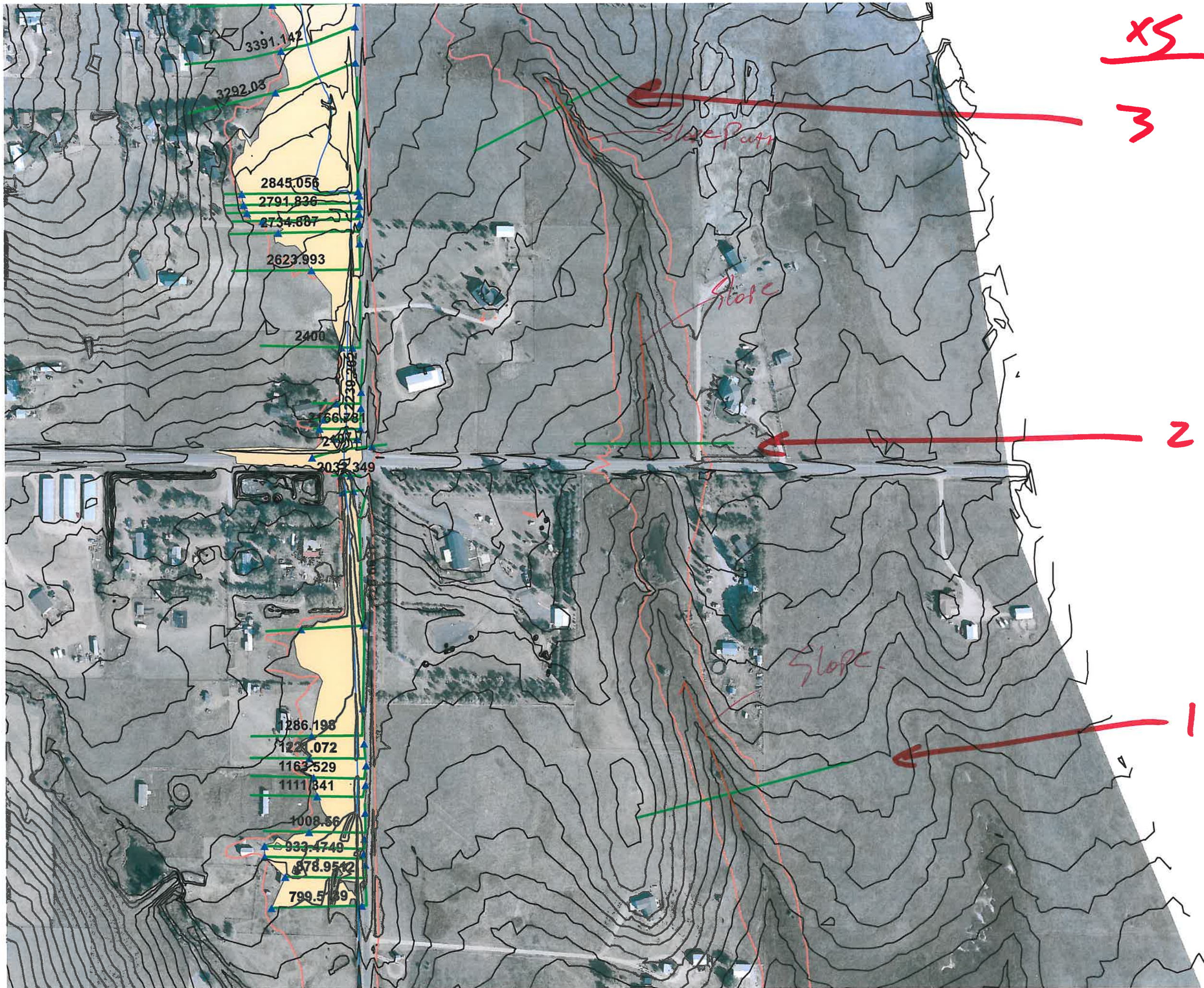
<u>Slope</u>	
Length	453
Z1	6662
Z2	6654
slope =	0.0177

XS 2	
Sta	Elev
0	6676
59	6676
130	6676
209	6672
269	6672
300	6674
430	6676

<u>Slope</u>	
Length	475
Z1	6676
Z2	6672
slope =	0.0084

XS 3	
Sta	Elev
0	6696
130	6688
156	6686
175	6684
193	6684
209	6686
250	6688
474	6690

<u>Slope</u>	
Length	272
Z1	6684
Z2	6680
slope =	0.0147

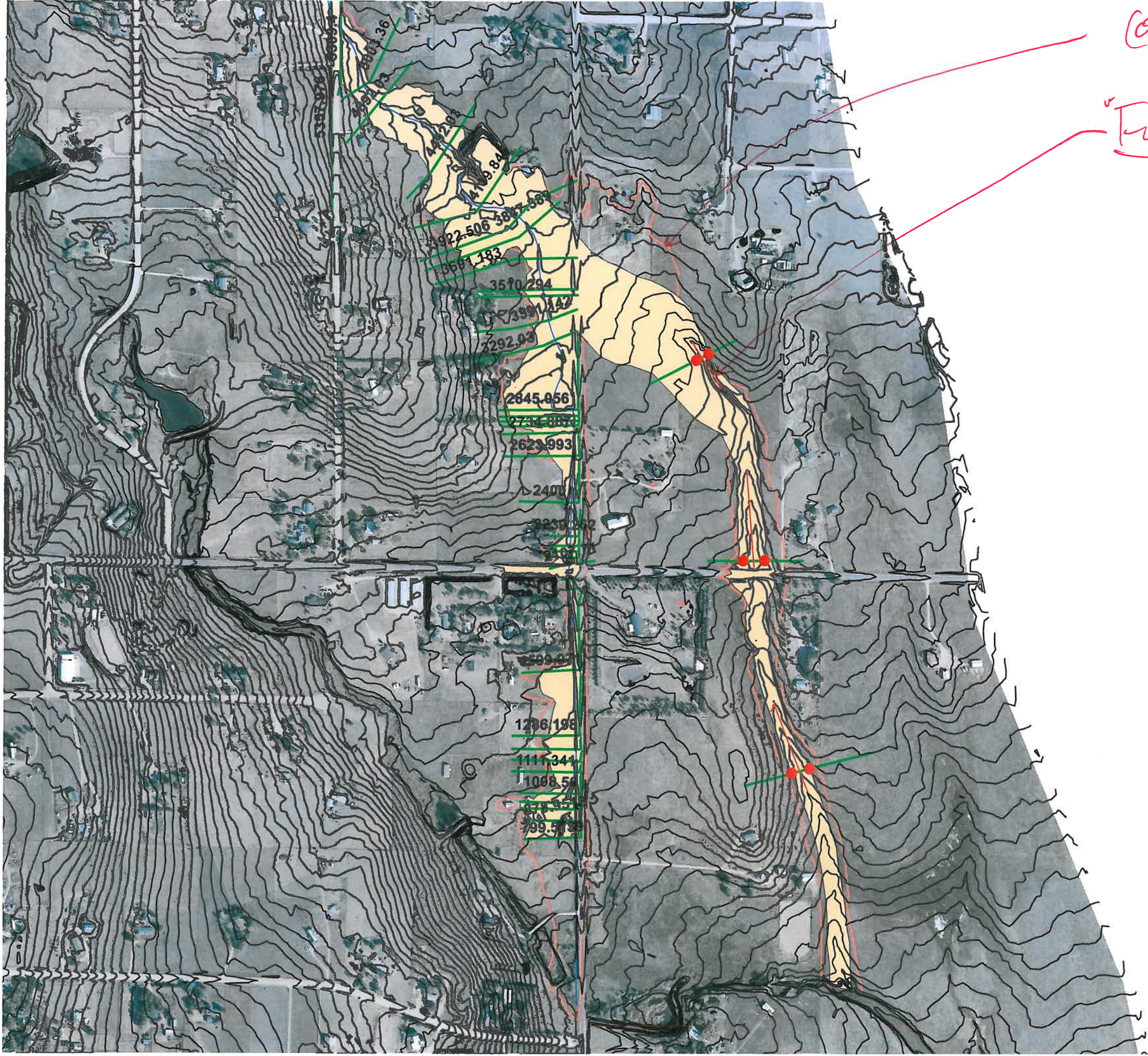


x5

3

2

1



(Old) Future Delineation

"Future" Delineation (new)

Future Flows.

Worksheet for XS 1

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.01770 ft/ft
Discharge 383.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00	6662.00
2+86	6660.00
3+40	6658.00
3+67	6656.00
3+96	6658.00
4+25	6660.00
4+53	6662.00
5+90	6670.00
6+46	6672.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 6662.00)	(3+40, 6658.00)	0.080
(3+40, 6658.00)	(3+96, 6658.00)	0.050
(3+96, 6658.00)	(6+46, 6672.00)	0.080

Options

Current Roughness Weighted Method Pavlovskii's Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 2.69 ft *≈ 6659 elev.*
Elevation Range 6656.00 to 6672.00 ft

Worksheet for XS 1

Results

Flow Area 104.19 ft²
Wetted Perimeter 84.65 ft
Hydraulic Radius 1.23 ft
Top Width 84.47 ft
Normal Depth 2.69 ft
Critical Depth 2.17 ft
Critical Slope 0.05488 ft/ft
Velocity 3.68 ft/s
Velocity Head 0.21 ft
Specific Energy 2.90 ft
Froude Number 0.58
Flow Type Subcritical

GVF Input Data

Downstream Depth 0.00 ft
Length 0.00 ft
Number Of Steps 0

GVF Output Data

Upstream Depth 0.00 ft
Profile Description
Profile Headloss 0.00 ft
Downstream Velocity Infinity ft/s
Upstream Velocity Infinity ft/s
Normal Depth 2.69 ft
Critical Depth 2.17 ft
Channel Slope 0.01770 ft/ft
Critical Slope 0.05488 ft/ft

Messages

Notes

XS of Lower East Trib Flow Split
Falcon DBPS
Slope = 0.0177 calcd from 453 feet of adjacent channel.

MGS
12/9/2011

Worksheet for XS 2 - Future

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.00840 ft/ft
Discharge 383.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00	6676.00
0+59	6676.00
1+30	6676.00
2+09	6672.00
2+69	6672.00
3+00	6674.00
4+30	6676.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 6676.00)	(2+09, 6672.00)	0.080
(2+09, 6672.00)	(2+69, 6672.00)	0.050
(2+69, 6672.00)	(4+30, 6676.00)	0.080

Options

Current Roughness Weighted Method Pavlovskii's Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 1.74 ft = 6674 elev.
Elevation Range 6672.00 to 6676.00 ft
Flow Area 157.92 ft²
Wetted Perimeter 121.48 ft

Worksheet for XS 2

Results

Hydraulic Radius 1.30 ft
Top Width 121.38 ft
Normal Depth 1.74 ft
Critical Depth 0.98 ft
Critical Slope 0.07030 ft/ft
Velocity 2.43 ft/s
Velocity Head 0.09 ft
Specific Energy 1.83 ft
Froude Number 0.37
Flow Type Subcritical

GVF Input Data

Downstream Depth 0.00 ft
Length 0.00 ft
Number Of Steps 0

GVF Output Data

Upstream Depth 0.00 ft
Profile Description
Profile Headloss 0.00 ft
Downstream Velocity Infinity ft/s
Upstream Velocity Infinity ft/s
Normal Depth 1.74 ft
Critical Depth 0.98 ft
Channel Slope 0.00840 ft/ft
Critical Slope 0.07030 ft/ft

Messages

Notes

XS of Lower East Trib Flow Split
Falcon DBPS
Slope = 0.0177 calced from 453 feet of adjacent channel.
MGS
12/9/2011

Worksheet for XS 3 - Future

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.01470 ft/ft
Discharge 383.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00	6696.00
1+30	6688.00
1+56	6686.00
1+75	6684.00
1+93	6684.00
2+09	6686.00
2+50	6688.00
4+74	6690.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 6696.00)	(1+56, 6686.00)	0.080
(1+56, 6686.00)	(2+09, 6686.00)	0.050
(2+09, 6686.00)	(4+74, 6690.00)	0.080

Options

Current Roughness weighted Method Pavlovskii's Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 2.42 ft = 6686.5 elev.
Elevation Range 6684.00 to 6696.00 ft
Flow Area 96.54 ft²

Worksheet for XS 3

Results

Wetted Perimeter 67.49 ft
Hydraulic Radius 1.43 ft
Top Width 67.23 ft
Normal Depth 2.42 ft
Critical Depth 1.80 ft
Critical Slope 0.04547 ft/ft
Velocity 3.97 ft/s
Velocity Head 0.24 ft
Specific Energy 2.67 ft
Froude Number 0.58
Flow Type Subcritical

GVF Input Data

Downstream Depth 0.00 ft
Length 0.00 ft
Number Of Steps 0

GVF Output Data

Upstream Depth 0.00 ft
Profile Description
Profile Headloss 0.00 ft
Downstream Velocity Infinity ft/s
Upstream Velocity Infinity ft/s
Normal Depth 2.42 ft
Critical Depth 1.80 ft
Channel Slope 0.01470 ft/ft
Critical Slope 0.04547 ft/ft

Messages

Notes

XS of Lower East Trib Flow Split
Falcon DBPS

Slope = 0.0177 calced from 453 feet of adjacent channel.

MGS
12/9/2011

Worksheet for XS 1 - E63r

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.01770 ft/ft
Discharge 316.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00	6662.00
2+86	6660.00
3+40	6658.00
3+67	6656.00
3+96	6658.00
4+25	6660.00
4+53	6662.00
5+90	6670.00
6+46	6672.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 6662.00)	(3+40, 6658.00)	0.080
(3+40, 6658.00)	(3+96, 6658.00)	0.050
(3+96, 6658.00)	(6+46, 6672.00)	0.080

Options

Current Roughness Weighted Method Pavlovskii's Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 2.46 ft = 0.2' less than Fu.
Elevation Range 6656.00 to 6672.00 ft

Worksheet for XS 1 - E63r

Results

Flow Area 86.29 ft²
Wetted Perimeter 75.34 ft
Hydraulic Radius 1.15 ft
Top Width 75.17 ft
Normal Depth 2.46 ft
Critical Depth 2.00 ft
Critical Slope 0.05112 ft/ft
Velocity 3.66 ft/s
Velocity Head 0.21 ft
Specific Energy 2.67 ft
Froude Number 0.60
Flow Type Subcritical

GVF Input Data

Downstream Depth 0.00 ft
Length 0.00 ft
Number Of Steps 0

GVF Output Data

Upstream Depth 0.00 ft
Profile Description
Profile Headloss 0.00 ft
Downstream Velocity Infinity ft/s
Upstream Velocity Infinity ft/s
Normal Depth 2.46 ft
Critical Depth 2.00 ft
Channel Slope 0.01770 ft/ft
Critical Slope 0.05112 ft/ft

Messages

Notes

XS of Lower East Trib Flow Split
Falcon DBPS

Slope = 0.0177 calced from 453 feet of adjacent channel.

MGS
12/9/2011

Worksheet for XS 2 - East

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.00840 ft/ft
Discharge 316.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00	6676.00
0+59	6676.00
1+30	6676.00
2+09	6672.00
2+69	6672.00
3+00	6674.00
4+30	6676.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 6676.00)	(2+09, 6672.00)	0.080
(2+09, 6672.00)	(2+69, 6672.00)	0.050
(2+69, 6672.00)	(4+30, 6676.00)	0.080

Options

Current Roughness weighted Method Pavlovskii's Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 1.56 ft = 0.70' Less than Eq
Elevation Range 6672.00 to 6676.00 ft
Flow Area 136.75 ft²
Wetted Perimeter 115.16 ft

Worksheet for XS 2 - East

Results

Hydraulic Radius 1.19 ft
Top Width 115.07 ft
Normal Depth 1.56 ft
Critical Depth 0.87 ft
Critical Slope 0.07098 ft/ft
Velocity 2.31 ft/s
Velocity Head 0.08 ft
Specific Energy 1.65 ft
Froude Number 0.37
Flow Type Subcritical

GVF Input Data

Downstream Depth 0.00 ft
Length 0.00 ft
Number Of Steps 0

GVF Output Data

Upstream Depth 0.00 ft
Profile Description
Profile Headloss 0.00 ft
Downstream Velocity Infinity ft/s
Upstream Velocity Infinity ft/s
Normal Depth 1.56 ft
Critical Depth 0.87 ft
Channel Slope 0.00840 ft/ft
Critical Slope 0.07098 ft/ft

Messages

Notes

XS of Lower East Trib Flow Split
Falcon DBPS
Slope = 0.0177 calced from 453 feet of adjacent channel.
MGS
12/9/2011

Worksheet for XS 3 - Exit

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.01470 ft/ft
Discharge 316.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00	6696.00
1+30	6688.00
1+56	6686.00
1+75	6684.00
1+93	6684.00
2+09	6686.00
2+50	6688.00
4+74	6690.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 6696.00)	(1+56, 6686.00)	0.080
(1+56, 6686.00)	(2+09, 6686.00)	0.050
(2+09, 6686.00)	(4+74, 6690.00)	0.080

Options

Current roughness weighted Method Pavlovskii's Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 2.05 ft = 0.37' Less than Fu.
Elevation Range 6684.00 to 6696.00 ft
Flow Area 73.86 ft²

Worksheet for XS 3 - Exit

Results

Wetted Perimeter 55.01 ft
Hydraulic Radius 1.34 ft
Top Width 54.78 ft
Normal Depth 2.05 ft
Critical Depth 1.63 ft
Critical Slope 0.03695 ft/ft
Velocity 4.28 ft/s
Velocity Head 0.28 ft
Specific Energy 2.34 ft
Froude Number 0.65
Flow Type Subcritical

GVF Input Data

Downstream Depth 0.00 ft
Length 0.00 ft
Number Of Steps 0

GVF Output Data

Upstream Depth 0.00 ft
Profile Description
Profile Headloss 0.00 ft
Downstream Velocity Infinity ft/s
Upstream Velocity Infinity ft/s
Normal Depth 2.05 ft
Critical Depth 1.63 ft
Channel Slope 0.01470 ft/ft
Critical Slope 0.03695 ft/ft

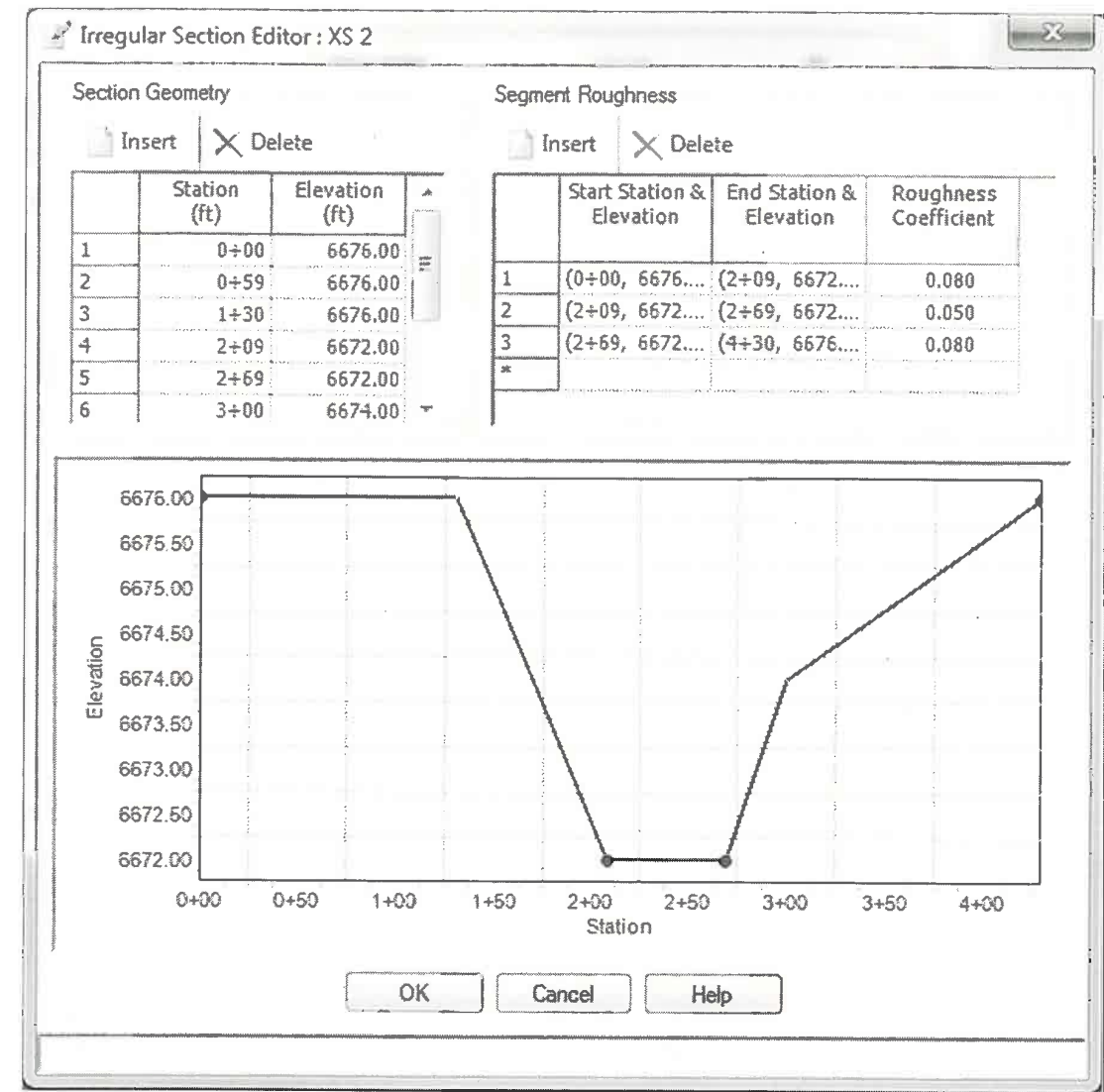
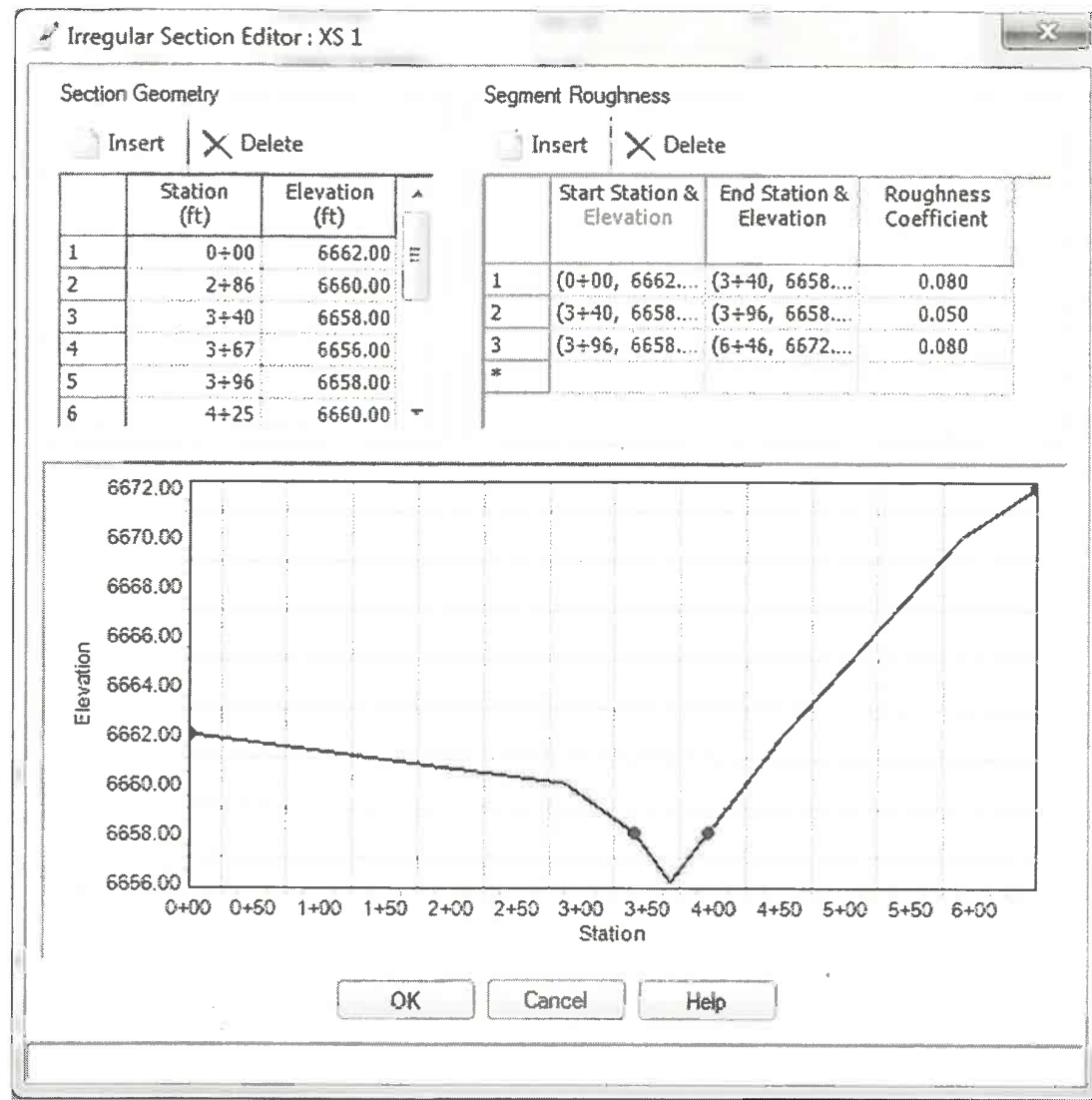
Messages

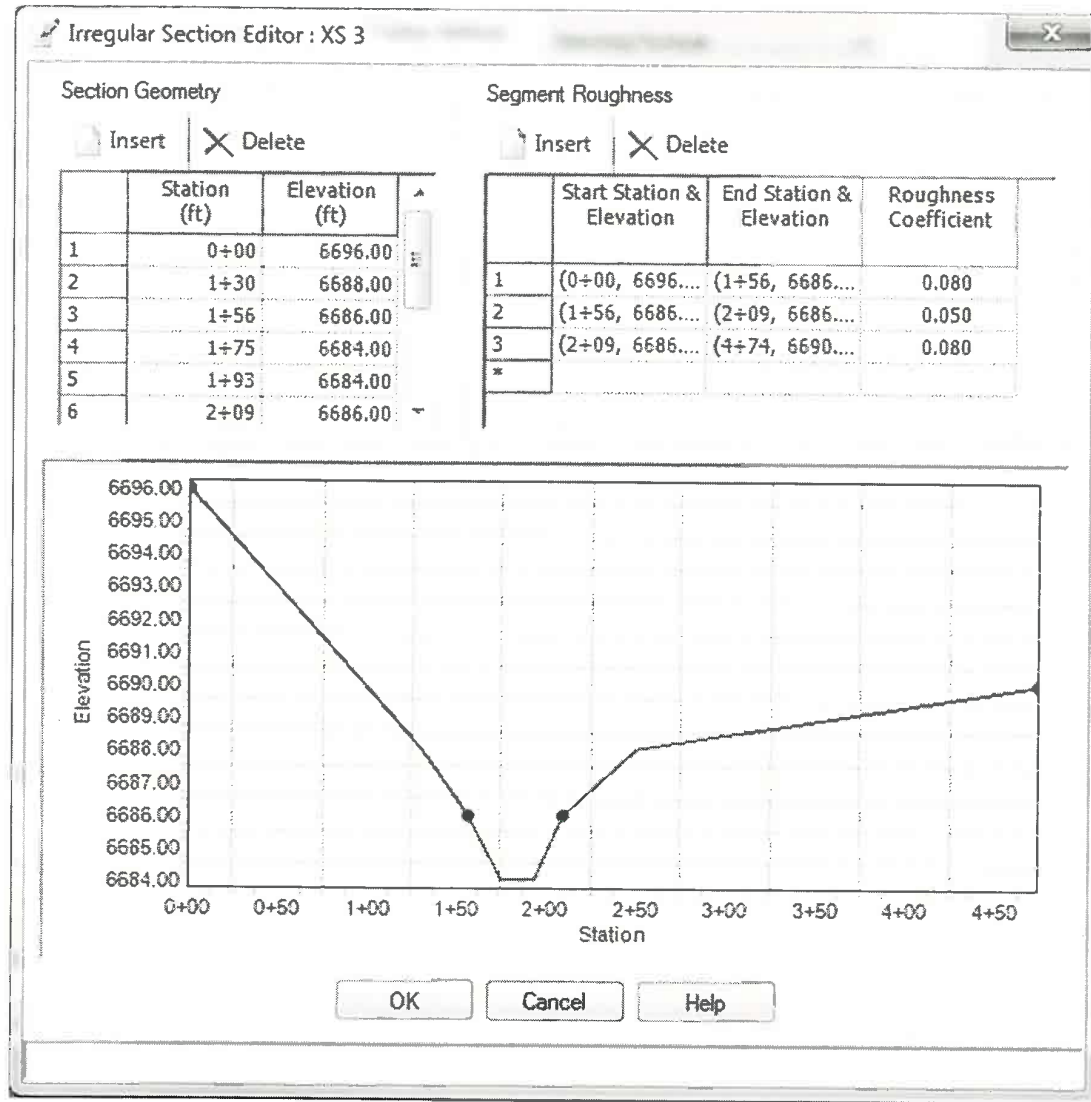
Notes

XS of Lower East Trib Flow Split
Falcon DBPS

Slope = 0.0177 calced from 453 feet of adjacent channel.

MGS
12/9/2011





Falcon DBPS
Existing Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Crossing Size ¹					Material ¹	Shape ¹	Q100 (cfs) ²
				# of Cells	Diameter (ft)	Rise (ft)	Span	Total Span			
WT 14	47262	West Tributary	Burgess Rd.	1	1.5			1.50	CMP	Circular	89
WT 13	45766.17	West Tributary	Pine Park Trl.	1	2.5			2.50	CMP	Circular	170
WT 11	41441.59	West Tributary	Arroya Ln.	1	1			1.00	CMP	Circular	480
WT 10	21948.92	West Tributary	Woodmen Rd.	1		8.75	18.92	18.92	Concrete	Box	950
WT 9	19961.38	West Tributary	Meridian Rd.	4		6	10	40.00	Concrete	Box	1000
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	3	1.5			4.50	RCP	Circular	1017
WT 7-2	17647.61	West Tributary	Rail Road			7.41	54	54.00	Wood	Bridge	890
WT 7-1	17517.42	West Tributary	HWY 24	3		6	12	36.00	Concrete	Box	890
WT 6	15318.93	West Tributary	Falcon Hwy.	2		5.58	8.25	16.50	CMP	Arch	910
WT 5	14944.59	West Tributary	Meridian Rd.	1	2			2.00	CMP	Circular	910
WT 5-2	14944.59	West Tributary	Meridian Rd.	1	1.5			1.50	CMP	Circular	910
WT 4	9806.61	West Tributary	W. Condor Rd.	1	4			4.00	CMP	Circular	1300
WT 3	8435.27	West Tributary	Garrett Rd.	3		7.33	12	36.00	CMP	Arch	1300
WT 1	5398.42	West Tributary	Blaney Rd.	2	3			6.00	RCP	Circular	1900
MT 7	10706	Middle Tributary	Owl Ln.	1		1.25	1.75	1.75	CMP	Elliptical	259
MT 6	7238	Middle Tributary	Woodmen Rd.	3	4			12.00	RCP	Circular	760
MT 6-2	7238	Middle Tributary	Woodmen Rd.	3	4			12.00	RCP	Circular	760
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.			5.22	27	27.00	Concrete	Bridge	770
MT 4	5184.12	Middle Tributary	Rail Road			9.17	77	77.00	Wood	Bridge	800
MT 3	5035.56	Middle Tributary	HWY 24	2		6	12	24.00	Concrete	Box	800
MT 2	3667.171	Middle Tributary	Swingline Rd.	1		6.8333	20	20.00	Concrete	Box	820
MT 1	1661.946	Middle Tributary	Falcon Hwy.	1	2			2.00	CMP	Circular	820
ET 32	32376.64	East Tributary	Liberty Grive Dr.	2	3.5			7.00	CMP	Circular	150
ET 31	28298.89	East Tributary	Stapleton Dr.	2		2.5	6	12.00	Concrete	Box	280
ET 30	26454.7	East Tributary	Royal County Down Rd.	1	6			6.00	RCP	Circular	460
ET 26	23413.07	East Tributary	Rio Secco Ln.	3	4			12.00	RCP	Circular	460
ET 19	18092.76	East Tributary	Eastonville Rd.	1	6			6.00	CMP	Circular	733
ET 15	14364.16	East Tributary	Rail Road			6.5	67	67.00	Wood	Bridge	370
ET 14	14215.6	East Tributary	HWY 24	2		4.83	12	24.00	Concrete	Box	370
ET 13	12425.19	East Tributary	Pinto Pony Rd.	2	4			8.00	CMP	Circular	380
ET 11	8304.048	East Tributary	Falcon Hwy.	2	5			10.00	RCP	Circular	430
ET 10	6243.929	East Tributary	N. Condor Rd.	1		3.17	4.67	4.67	CMP	Arch	590
ET 9	5333.859	East Tributary	Sunset Trl.	1	4			4.00	CMP	Circular	590
ET 4	2073.649	East Tributary	Garrett Rd.	1		3.17	4.67	4.67	CMP	Arch	309

Notes:

- ¹ Based on field measurements
- ² From HEC-RAS
- ³ Based on topography and field measurements
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- ⁶ Based on the criteria listed on Page 6-10 in the City DCM. Used either Collector or Arterial. Criteria is the same for Local/Residential/Collector and for Arterial/Highway

Falcon DBPS
Existing Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Upstream Invert (ft) ³			Downstream Invert (ft) ³		
				Cell 1	Cell 2	Cell 3	Cell 1	Cell 2	Cell 3
WT 14	47262	West Tributary	Burgess Rd.	7401.50			7400.63		
WT 13	45766.17	West Tributary	Pine Park Trl.	7355.50			7354.17		
WT 11	41441.59	West Tributary	Arroya Ln.	7257.50			7257.33		
WT 10	21948.92	West Tributary	Woodmen Rd.	6886.17			6884.17		
WT 9	19961.38	West Tributary	Meridian Rd.	6847.00	6847.00	6847.00	6846.00	6846.00	6846.00
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	6834.50	6832.67		6832.00	6822.82	
WT 7-2	17647.61	West Tributary	Rail Road	6816.42			6816.42		
WT 7-1	17517.42	West Tributary	HWY 24	6814.83	6814.83	6814.83	6814.83	6814.83	6814.83
WT 6	15318.93	West Tributary	Falcon Hwy.	6782.75	6782.75		6782.58	6782.58	
WT 5	14944.59	West Tributary	Meridian Rd.	6776.83			6776.83		
WT 5-2	14944.59	West Tributary	Meridian Rd.	6775.00			6774.58		
WT 4	9806.61	West Tributary	W. Condor Rd.	6707.08			6706.58		
WT 3	8435.27	West Tributary	Garrett Rd.	6686.25	6686.25		6685.08	6685.08	
WT 1	5398.42	West Tributary	Blaney Rd.	6655.83	6655.83		6655.50	6655.50	
MT 7	10706	Middle Tributary	Owl Ln.	6917.93			6915.26		
MT 6	7238	Middle Tributary	Woodmen Rd.	6874.16	6874.16	6874.16	6851.63	6851.63	6851.63
MT 6-2	7238	Middle Tributary	Woodmen Rd.	6872.58	6872.58	6872.58	6856.00	6856.00	6856.00
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	6846.25			6846.08		
MT 4	5184.12	Middle Tributary	Rail Road	6828.91			6828.91		
MT 3	5035.56	Middle Tributary	HWY 24	6827.67	6827.67		6827.67	6827.67	
MT 2	3667.171	Middle Tributary	Swingline Rd.	6805.08			6804.58		
MT 1	1661.946	Middle Tributary	Falcon Hwy.	6782.58			6782.42		
ET 32	32376.64	East Tributary	Liberty Grive Dr.	7152.97	7152.97		7152.30	7152.30	
ET 31	28298.89	East Tributary	Stapleton Dr.	7078.83	7078.83		7076.00	7076.00	
ET 30	26454.7	East Tributary	Royal County Down Rd.	7038.00			7035.00		
ET 26	23413.07	East Tributary	Rio Secco Ln.	6982.67	6982.67	6982.67	6981.75	6981.75	6981.75
ET 19	18092.76	East Tributary	Eastonville Rd.	6892.33			6891.75		
ET 15	14364.16	East Tributary	Rail Road	6851.63			6851.63		
ET 14	14215.6	East Tributary	HWY 24	6850.42	6850.42		6850.42	6850.42	
ET 13	12425.19	East Tributary	Pinto Pony Rd.	6810.50	6810.50		6810.33	6810.33	
ET 11	8304.048	East Tributary	Falcon Hwy.	6760.75	6760.75		6760.50	6760.50	
ET 10	6243.929	East Tributary	N. Condor Rd.	6726.75			6726.75		
ET 9	5333.859	East Tributary	Sunset Trl.	6715.42			6715.25		
ET 4	2073.649	East Tributary	Garrett Rd.	6678.58			6677.58		

Notes:

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Falcon DBPS
Existing Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Minimum Weir Elev. (ft) ⁴	Calculated HW (ft) ⁴	Cross-Section Area (SF)	Calculated HW/D	Hydraulic Classification ⁵
WT 14	47262	West Tributary	Burgess Rd.	7408.01	7408.45	1.77	5.21	Culvert
WT 13	45766.17	West Tributary	Pine Park Trl.	7362.01	7362.68	4.91	3.40	Culvert
WT 11	41441.59	West Tributary	Arroya Ln.	7262.01	7263.64	0.79	6.31	Culvert
WT 10	21948.92	West Tributary	Woodmen Rd.	6896.00	6893.37	166.00	1.05	Culvert
WT 9	19961.38	West Tributary	Meridian Rd.	6856.21	6851.26	240.00	0.88	Bridge
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	6838.01	6839.40	5.30	11.05	Culvert
WT 7-2	17647.61	West Tributary	Rail Road	6826.01	6822.16	205.00	0.77	Bridge
WT 7-1	17517.42	West Tributary	HWY 24	6824.68	6820.48	216.00	0.94	Bridge
WT 6	15318.93	West Tributary	Falcon Hwy.	6788.18	6788.63	72.32	1.08	Culvert
WT 5	14944.59	West Tributary	Meridian Rd.	6778.00	6779.27	3.14	1.22	Culvert
WT 5-2	14944.59	West Tributary	Meridian Rd.	6778.00	6779.27	1.77	3.13	Culvert
WT 4	9806.61	West Tributary	W. Condor Rd.	6713.01	6714.26	12.57	1.92	Culvert
WT 3	8435.27	West Tributary	Garrett Rd.	6695.95	6692.63	138.16	1.03	Bridge
WT 1	5398.42	West Tributary	Blaney Rd.	6660.01	6661.22	14.14	1.91	Bridge
MT 7	10706	Middle Tributary	Owl Ln.	6920.01	6920.61	2.2	4.28	Culvert
MT 6	7238	Middle Tributary	Woodmen Rd.	6880.01	6880.03	37.7	7.10	Culvert
MT 6-2	7238	Middle Tributary	Woodmen Rd.	6880.01	6880.03	37.7	6.01	Culvert
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	6854.01	6852.61	110.19	1.25	Bridge
MT 4	5184.12	Middle Tributary	Rail Road	6840.01	6835.23	456.13	0.69	Bridge
MT 3	5035.56	Middle Tributary	HWY 24	6836.68	6833.66	144	1.00	Bridge
MT 2	3667.171	Middle Tributary	Swingline Rd.	6816.01	6812.54	136.7	1.16	Bridge
MT 1	1661.946	Middle Tributary	Falcon Hwy.	6786.01	6786.75	3.14	2.17	Culvert
ET 32	32376.64	East Tributary	Liberty Grive Dr.	7158.41	7158.25	19.2	1.70	Culvert
ET 31	28298.89	East Tributary	Stapleton Dr.	7085.01	7083.49	30	3.00	Culvert
ET 30	26454.7	East Tributary	Royal County Down Rd.	7053.01	7050.45	28.3	2.57	Culvert
ET 26	23413.07	East Tributary	Rio Secco Ln.	7002.01	7002.81	37.7	5.27	Culvert
ET 19	18092.76	East Tributary	Eastonville Rd.	6901.49	6901.29	28.3	1.59	Culvert
ET 15	14364.16	East Tributary	Rail Road	6860.01	6854.96		0.51	Bridge
ET 14	14215.6	East Tributary	HWY 24	6859.01	6853.43	115.9	0.62	Bridge
ET 13	12425.19	East Tributary	Pinto Pony Rd.	6818.01	6819.06	25.1	2.18	Culvert
ET 11	8304.048	East Tributary	Falcon Hwy.	6767.76	6768.14	39.3	1.53	Culvert
ET 10	6243.929	East Tributary	N. Condor Rd.	6732.01	6732.68	11.63	1.87	Culvert
ET 9	5333.859	East Tributary	Sunset Trl.	6722.01	6722.54	12.6	1.82	Culvert
ET 4	2073.649	East Tributary	Garrett Rd.	6684.01	6683.72	11.63	1.94	Culvert

Notes:

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Falcon DBPS
Existing Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Roadway Classification ⁶	Overtopping Depth at Road (ft)	Max Allowable Overtopping Elev. (ft) ⁵	Fail Overtopping? ⁵	Allowable Hw/D ⁵
WT 14	47262	West Tributary	Burgess Rd.	Arterial	0.44	7408.51	Yes	1.50
WT 13	45766.17	West Tributary	Pine Park Trl.	Collector	0.67	7362.51	Yes	1.50
WT 11	41441.59	West Tributary	Arroya Ln.	Collector	1.63	7262.51	Yes	1.50
WT 10	21948.92	West Tributary	Woodmen Rd.	Arterial	-2.63	6896.50	No	1.11
WT 9	19961.38	West Tributary	Meridian Rd.	Arterial	-4.95	6856.71	No	Bridge
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	Collector	1.39	6838.51	Yes	1.50
WT 7-2	17647.61	West Tributary	Rail Road	Arterial	-3.85	6826.51	No	Bridge
WT 7-1	17517.42	West Tributary	HWY 24	Arterial	-4.20	6825.18	No	Bridge
WT 6	15318.93	West Tributary	Falcon Hwy.	Arterial	0.45	6788.68	Yes	1.43
WT 5	14944.59	West Tributary	Meridian Rd.	Arterial	1.27	6778.50	Yes	1.50
WT 5-2	14944.59	West Tributary	Meridian Rd.	Arterial	1.27	6778.50	Yes	1.50
WT 4	9806.61	West Tributary	W. Condor Rd.	Collector	1.25	6713.51	Yes	1.50
WT 3	8435.27	West Tributary	Garrett Rd.	Arterial	-3.32	6696.45	No	Bridge
WT 1	5398.42	West Tributary	Blaney Rd.	Arterial	1.21	6660.51	Yes	Bridge
MT 7	10706	Middle Tributary	Owl Ln.	Collector	0.60	6920.51	Yes	1.50
MT 6	7238	Middle Tributary	Woodmen Rd.	Arterial	0.02	6880.51	Yes	1.50
MT 6-2	7238	Middle Tributary	Woodmen Rd.	Arterial	0.02	6880.51	Yes	1.50
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	Collector	-1.40	6854.51	No	Bridge
MT 4	5184.12	Middle Tributary	Rail Road	Arterial	-4.78	6840.51	No	Bridge
MT 3	5035.56	Middle Tributary	HWY 24	Arterial	-3.02	6837.18	No	Bridge
MT 2	3667.171	Middle Tributary	Swingline Rd.	Collector	-3.47	6816.51	No	Bridge
MT 1	1661.946	Middle Tributary	Falcon Hwy.	Arterial	0.74	6786.51	Yes	1.50
ET 32	32376.64	East Tributary	Liberty Grive Dr.	Collector	-0.16	7158.91	No	1.50
ET 31	28298.89	East Tributary	Stapleton Dr.	Arterial	-1.52	7085.51	No	1.50
ET 30	26454.7	East Tributary	Royal County Down Rd.	Collector	-2.56	7053.51	No	1.50
ET 26	23413.07	East Tributary	Rio Secco Ln.	Collector	0.80	7002.51	Yes	1.50
ET 19	18092.76	East Tributary	Eastonville Rd.	Arterial	-0.20	6901.99	No	1.50
ET 15	14364.16	East Tributary	Rail Road	Arterial	-5.05	6860.51	No	Bridge
ET 14	14215.6	East Tributary	HWY 24	Arterial	-5.58	6859.51	No	Bridge
ET 13	12425.19	East Tributary	Pinto Pony Rd.	Collector	1.05	6818.51	Yes	1.50
ET 11	8304.048	East Tributary	Falcon Hwy.	Arterial	0.38	6768.26	Yes	1.50
ET 10	6243.929	East Tributary	N. Condor Rd.	Collector	0.67	6732.51	Yes	1.50
ET 9	5333.859	East Tributary	Sunset Trl.	Collector	0.53	6722.51	Yes	1.50
ET 4	2073.649	East Tributary	Garrett Rd.	Arterial	-0.29	6684.51	No	1.50

Notes:

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Falcon DBPS
Existing Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Max Allowable Hw Elev (ft) ⁵	Fail Hw/D? ⁵	Bridge Freeboard (ft) ⁵	Fail Bridge Freeboard? ⁵	FAIL?
WT 14	47262	West Tributary	Burgess Rd.	7403.75	Yes			Yes
WT 13	45766.17	West Tributary	Pine Park Trl.	7359.25	Yes			Yes
WT 11	41441.59	West Tributary	Arroya Ln.	7259.00	Yes			Yes
WT 10	21948.92	West Tributary	Woodmen Rd.	6895.91	No			No
WT 9	19961.38	West Tributary	Meridian Rd.	6851.00	Bridge	1.74	Yes	Yes
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	6836.75	Yes			Yes
WT 7-2	17647.61	West Tributary	Rail Road	6821.83	Bridge	1.67	Yes	Yes
WT 7-1	17517.42	West Tributary	HWY 24	6818.83	Bridge	0.35	Yes	Yes
WT 6	15318.93	West Tributary	Falcon Hwy.	6790.70	No			Yes
WT 5	14944.59	West Tributary	Meridian Rd.	6779.83	No			Yes
WT 5-2	14944.59	West Tributary	Meridian Rd.	6777.25	Yes			Yes
WT 4	9806.61	West Tributary	W. Condor Rd.	6713.08	Yes			Yes
WT 3	8435.27	West Tributary	Garrett Rd.	6691.58	Bridge	0.95	Yes	Yes
WT 1	5398.42	West Tributary	Blaney Rd.	6656.83	Bridge	-2.39	Yes	Yes
MT 7	10706	Middle Tributary	Owl Ln.	6919.81	Yes			Yes
MT 6	7238	Middle Tributary	Woodmen Rd.	6880.16	Yes			Yes
MT 6-2	7238	Middle Tributary	Woodmen Rd.	6878.58	Yes			Yes
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	6849.47	Bridge	-1.14	Yes	Yes
MT 4	5184.12	Middle Tributary	Rail Road	6836.08	Bridge	2.85	No	No
MT 3	5035.56	Middle Tributary	HWY 24	6831.67	Bridge	0.01	Yes	Yes
MT 2	3667.171	Middle Tributary	Swingline Rd.	6809.91	Bridge	-0.6267	Yes	Yes
MT 1	1661.946	Middle Tributary	Falcon Hwy.	6785.58	Yes			Yes
ET 32	32376.64	East Tributary	Liberty Grive Dr.	7158.22	Yes			Yes
ET 31	28298.89	East Tributary	Stapleton Dr.	7082.58	Yes			Yes
ET 30	26454.7	East Tributary	Royal County Down Rd.	7047.00	Yes			Yes
ET 26	23413.07	East Tributary	Rio Secco Ln.	6988.67	Yes			Yes
ET 19	18092.76	East Tributary	Eastonville Rd.	6901.33	Yes			Yes
ET 15	14364.16	East Tributary	Rail Road	6856.13	Bridge	3.17	No	No
ET 14	14215.6	East Tributary	HWY 24	6853.25	Bridge	1.82	Yes	Yes
ET 13	12425.19	East Tributary	Pinto Pony Rd.	6816.50	Yes			Yes
ET 11	8304.048	East Tributary	Falcon Hwy.	6768.25	Yes			Yes
ET 10	6243.929	East Tributary	N. Condor Rd.	6731.51	Yes			Yes
ET 9	5333.859	East Tributary	Sunset Trl.	6721.42	Yes			Yes
ET 4	2073.649	East Tributary	Garrett Rd.	6683.34	Yes			Yes

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Falcon DBPS
Existing Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Reason
WT 14	47262	West Tributary	Burgess Rd.	Overtops, Does Not Meet Hw/D Criteria
WT 13	45766.17	West Tributary	Pine Park Trl.	Overtops, Does Not Meet Hw/D Criteria
WT 11	41441.59	West Tributary	Arroya Ln.	Overtops, Does Not Meet Hw/D Criteria
WT 10	21948.92	West Tributary	Woodmen Rd.	
WT 9	19961.38	West Tributary	Meridian Rd.	Does Not Meet Freeboard Criteria
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	Overtops, Does Not Meet Hw/D Criteria
WT 7-2	17647.61	West Tributary	Rail Road	Does Not Meet Freeboard Criteria
WT 7-1	17517.42	West Tributary	HWY 24	Does Not Meet Freeboard Criteria
WT 6	15318.93	West Tributary	Falcon Hwy.	Overtops
WT 5	14944.59	West Tributary	Meridian Rd.	Overtops
WT 5-2	14944.59	West Tributary	Meridian Rd.	Overtops, Does Not Meet Hw/D Criteria
WT 4	9806.61	West Tributary	W. Condor Rd.	Overtops, Does Not Meet Hw/D Criteria
WT 3	8435.27	West Tributary	Garrett Rd.	Does Not Meet Freeboard Criteria
WT 1	5398.42	West Tributary	Blaney Rd.	Overtops, Does Not Meet Freeboard Criteria
MT 7	10706	Middle Tributary	Owl Ln.	Overtops, Does Not Meet Hw/D Criteria
MT 6	7238	Middle Tributary	Woodmen Rd.	Overtops, Does Not Meet Hw/D Criteria
MT 6-2	7238	Middle Tributary	Woodmen Rd.	Overtops, Does Not Meet Hw/D Criteria
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	Does Not Meet Freeboard Criteria
MT 4	5184.12	Middle Tributary	Rail Road	
MT 3	5035.56	Middle Tributary	HWY 24	Does Not Meet Freeboard Criteria
MT 2	3667.171	Middle Tributary	Swingline Rd.	Does Not Meet Freeboard Criteria
MT 1	1661.946	Middle Tributary	Falcon Hwy.	Overtops, Does Not Meet Hw/D Criteria
ET 32	32376.64	East Tributary	Liberty Grive Dr.	Does Not Meet Hw/D Criteria
ET 31	28298.89	East Tributary	Stapleton Dr.	Does Not Meet Hw/D Criteria
ET 30	26454.7	East Tributary	Royal County Down Rd.	Does Not Meet Hw/D Criteria
ET 26	23413.07	East Tributary	Rio Secco Ln.	Overtops, Does Not Meet Hw/D Criteria
ET 19	18092.76	East Tributary	Eastonville Rd.	Does Not Meet Hw/D Criteria
ET 15	14364.16	East Tributary	Rail Road	
ET 14	14215.6	East Tributary	HWY 24	Does Not Meet Freeboard Criteria
ET 13	12425.19	East Tributary	Pinto Pony Rd.	Overtops, Does Not Meet Hw/D Criteria
ET 11	8304.048	East Tributary	Falcon Hwy.	Overtops, Does Not Meet Hw/D Criteria
ET 10	6243.929	East Tributary	N. Condor Rd.	Overtops, Does Not Meet Hw/D Criteria
ET 9	5333.859	East Tributary	Sunset Trl.	Overtops, Does Not Meet Hw/D Criteria
ET 4	2073.649	East Tributary	Garrett Rd.	Does Not Meet Hw/D Criteria

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Falcon DBPS
Existing Detention Pond Deficiency Analysis (overtopping only)

Pond	HEC-RAS River Station	Tributary	RAS	Spillway Elevation (ft) ¹	RAS	HMS	Overtopping ³	RAS Overtopping	HMS Overtopping
			100-yr Flow (cfs)		100-yr WSE (ft)	100-yr WSE (ft) ²			
Pond WU Outlet Structure	17840	West Tributary	972	6832	6832	6829	NO	NO	NO
Paint Brush Hills Pond A Outlet Structure	N/A	West Tributary	N/A	7148	N/A	7148.7	YES	N/A	YES
Paint Brush Hills Pond B1 Outlet Structure	N/A	West Tributary	N/A	7158	N/A	7155.2	NO	N/A	NO
Paint Brush Hills Pond B2 Outlet Structure	N/A	West Tributary	N/A	7148	N/A	7147.5	NO	N/A	NO
Paint Brush Hills Pond C Outlet Structure	N/A	West Tributary	N/A	7200	N/A	7199.5	NO	N/A	NO
The Meadows Pond #1 Outlet Structure	N/A	West Tributary	N/A	7015	N/A	7013	NO	N/A	NO
The Meadows Pond #2 Outlet Structure	15205.815	Middle Tributary	160	7011	7005	7010	NO	NO	NO
Regional Pond MN Outlet Structure	6420.9204	Middle Tributary	776	6854	6853	6855	YES	NO	YES
Woodmen Hills Pond #5 Outlet Structure	N/A	Middle Tributary	N/A	6854	N/A	6853.4	NO	N/A	NO
Woodmen Hills Pond H Outlet Structure	N/A	Middle Tributary	N/A	6976	N/A	6977.3	YES	N/A	YES
Paint Brush Hills Pond #4 Outlet Structure	31486	East Tributary	150	7134	7136	7135	YES	YES	YES
Woodmen Hills Pond #1 North Outlet Structure	21604.86	East Tributary	534	6960	6959	6958	NO	NO	NO
Woodmen Hills Pond #1 South Outlet Structure	21169.19	East Tributary	534	6954	6947	6956	YES	NO	YES
Woodmen Hills Pond #2 Outlet Structure	19810.83	East Tributary	489	6930	6926	6932	YES	NO	YES
Woodmen Hills Pond #3 Outlet Structure	18205.02	East Tributary	529	6902	6903	6903	YES	YES	YES
Woodmen Hills Pond #4 Outlet Structure	14543.949	East Tributary	761	6860	6857	6861	YES	NO	YES

- Notes:
- ¹ Based on topography
 - ² In some cases the reported 100-yr flow is different between models because only a limited amount of flow change locations were used in the HEC-RAS model
 - ³ Assumed overtopping if either HEC-RAS or HEC-HMS indicated a 100-yr WSE above the spillway elevation
 - * The results of the 100-yr WSE varied greatly in some cases because of the way each of the programs calculates the water surface within a detention pond system. HEC-HMS calculates the water surface based on hydrologic routing using hydrograph. HEC-RAS calculates the water surface based on peak flow and culvert hydraulics.
 - ** Potential deficiency is based on spillway overtopping only
 - *** "N/A" means pond was not on main tributary branch and was not modeled in HEC-RAS, but was modeled in HEC-HMS

Falcon DBPS
Future Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Crossing Size ¹					Material ¹	Shape ¹	Q100 (cfs) ²	Cell 1
				# of Cells	Diameter (ft)	Rise (ft)	Span	Total Span				
WT 14	47262	West Tributary	Burgess Rd.	1	1.5			1.50	CMP	Circular	89	7401.50
WT 13	45766.17	West Tributary	Pine Park Trl.	1	2.5			2.50	CMP	Circular	170	7355.50
WT 11	41441.59	West Tributary	Arroya Ln.	1	1			1.00	CMP	Circular	480	7257.50
WT 10	21948.92	West Tributary	Woodmen Rd.	1		8.75	18.92	18.92	Concrete	Box	1100	6886.17
WT 9	19961.38	West Tributary	Meridian Rd.	4		6	10	40.00	Concrete	Box	1400	6847.00
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	3	1.5			4.50	RCP	Circular	1398	6834.50
WT 7-2	17647.61	West Tributary	Rail Road			7.41	54	54.00	Wood	Bridge	1100	6816.42
WT 7-1	17517.42	West Tributary	HWY 24	3		6	12	36.00	Concrete	Box	1100	6814.83
WT 6	15318.93	West Tributary	Falcon Hwy.	2		5.58	8.25	16.50	CMP	Arch	1100	6782.75
WT 5	14944.59	West Tributary	Meridian Rd.	1	2			2.00	CMP	Circular	1100	6776.83
WT 5-2	14944.59	West Tributary	Meridian Rd.	1	1.5			1.50	CMP	Circular	1100	6775.00
WT 4	9806.61	West Tributary	W. Condor Rd.	1	4			4.00	CMP	Circular	1700	6707.08
WT 3	8435.27	West Tributary	Garrett Rd.	3		7.33	12	36.00	CMP	Arch	1700	6686.25
WT 1	5398.42	West Tributary	Blaney Rd.	2	3			6.00	RCP	Circular	2406	6655.83
MT 7	10706	Middle Tributary	Owl Ln.	1		1.25	1.75	1.75	CMP	Elliptical	360	6917.93
MT 6	7238	Middle Tributary	Woodmen Rd.	3	4			12.00	RCP	Circular	1200	6874.16
MT 6-2	7238	Middle Tributary	Woodmen Rd.	3	4			12.00	RCP	Circular	1200	6872.58
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.			5.22	27	27.00	Concrete	Bridge	1200	6846.25
MT 4	5184.12	Middle Tributary	Rail Road			9.17	77	77.00	Wood	Bridge	1200	6828.91
MT 3	5035.56	Middle Tributary	HWY 24	2		6	12	24.00	Concrete	Box	1200	6827.67
MT 2	3667.171	Middle Tributary	Swingline Rd.	1		6.8333	20	20.00	Concrete	Box	1200	6805.08
MT 1	1661.946	Middle Tributary	Falcon Hwy.	1	2			2.00	CMP	Circular	1200	6782.58
ET 32	32376.64	East Tributary	Liberty Grive Dr.	2	3.5			7.00	CMP	Circular	200	7152.97
ET 31	28298.89	East Tributary	Stapleton Dr.	2		2.5	6	12.00	Concrete	Box	390	7078.83
ET 30	26454.7	East Tributary	Royal County Down Rd.	1	6			6.00	RCP	Circular	580	7038.00
ET 26	23413.07	East Tributary	Rio Secco Ln.	3	4			12.00	RCP	Circular	580	6982.67
ET 19	18092.76	East Tributary	Eastonville Rd.	1	6			6.00	CMP	Circular	733	6892.33
ET 15	14364.16	East Tributary	Rail Road			6.5	67	67.00	Wood	Bridge	390	6851.63
ET 14	14215.6	East Tributary	HWY 24	2		4.83	12	24.00	Concrete	Box	390	6850.42
ET 13	12425.19	East Tributary	Pinto Pony Rd.	2	4			8.00	CMP	Circular	390	6810.50
ET 11	8304.048	East Tributary	Falcon Hwy.	2	5			10.00	RCP	Circular	450	6760.75
ET 10	6243.929	East Tributary	N. Condor Rd.	1		3.17	4.67	4.67	CMP	Arch	680	6726.75
ET 9	5333.859	East Tributary	Sunset Trl.	1	4			4.00	CMP	Circular	680	6715.42
ET 4	2073.649	East Tributary	Garrett Rd.	1		3.17	4.67	4.67	CMP	Arch	325	6678.58

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Falcon DBPS
Future Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Upstream Invert (ft) ³		Downstream Invert (ft) ³			Minimum Weir Elev. (ft) ⁴
				Cell 2	Cell 3	Cell 1	Cell 2	Cell 3	
WT 14	47262	West Tributary	Burgess Rd.			7400.63			7408.01
WT 13	45766.17	West Tributary	Pine Park Trl.			7354.17			7362.01
WT 11	41441.59	West Tributary	Arroya Ln.			7257.33			7262.01
WT 10	21948.92	West Tributary	Woodmen Rd.			6884.17			6896.01
WT 9	19961.38	West Tributary	Meridian Rd.	6847.00	6847.00	6846.00	6846.00	6846.00	6856.21
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	6832.67		6832.00	6822.82		6838.01
WT 7-2	17647.61	West Tributary	Rail Road			6816.42			6826.01
WT 7-1	17517.42	West Tributary	HWY 24	6814.83	6814.83	6814.83	6814.83	6814.83	6824.68
WT 6	15318.93	West Tributary	Falcon Hwy.	6782.75		6782.58	6782.58		6788.18
WT 5	14944.59	West Tributary	Meridian Rd.			6776.83			6778.01
WT 5-2	14944.59	West Tributary	Meridian Rd.			6774.58			6778.01
WT 4	9806.61	West Tributary	W. Condor Rd.			6706.58			6713.01
WT 3	8435.27	West Tributary	Garrett Rd.	6686.25		6685.08	6685.08		6695.95
WT 1	5398.42	West Tributary	Blaney Rd.	6655.83		6655.50	6655.50		6660.01
MT 7	10706	Middle Tributary	Owl Ln.			6915.26			6920.01
MT 6	7238	Middle Tributary	Woodmen Rd.	6874.16	6874.16	6851.63	6851.63	6851.63	6880.01
MT 6-2	7238	Middle Tributary	Woodmen Rd.	6872.58	6872.58	6856.00	6856.00	6856.00	6880.01
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.			6846.08			6854.01
MT 4	5184.12	Middle Tributary	Rail Road			6828.91			6840.01
MT 3	5035.56	Middle Tributary	HWY 24	6827.67		6827.67	6827.67		6836.68
MT 2	3667.171	Middle Tributary	Swingline Rd.			6804.58			6816.01
MT 1	1661.946	Middle Tributary	Falcon Hwy.			6782.42			6786.01
ET 32	32376.64	East Tributary	Liberty Grive Dr.	7152.97		7152.30	7152.30		7158.41
ET 31	28298.89	East Tributary	Stapleton Dr.	7078.83		7076.00	7076.00		7085.01
ET 30	26454.7	East Tributary	Royal County Down Rd.			7035.00			7053.01
ET 26	23413.07	East Tributary	Rio Secco Ln.	6982.67	6982.67	6981.75	6981.75	6981.75	7002.01
ET 19	18092.76	East Tributary	Eastonville Rd.			6891.75			6901.49
ET 15	14364.16	East Tributary	Rail Road			6851.63			6860.01
ET 14	14215.6	East Tributary	HWY 24	6850.42		6850.42	6850.42		6859.01
ET 13	12425.19	East Tributary	Pinto Pony Rd.	6810.50		6810.33	6810.33		6818.01
ET 11	8304.048	East Tributary	Falcon Hwy.	6760.75		6760.50	6760.50		6767.76
ET 10	6243.929	East Tributary	N. Condor Rd.			6726.75			6732.01
ET 9	5333.859	East Tributary	Sunset Trl.			6715.25			6722.01
ET 4	2073.649	East Tributary	Garrett Rd.			6677.58			6684.01

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Falcon DBPS
Future Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Calculated HW (ft) ⁴	Cross-Section Area (SF)	Calculated HW/D	Hydraulic Classification ⁵	Roadway Classification ⁶
WT 14	47262	West Tributary	Burgess Rd.	7408.45	1.77	5.21	Culvert	Arterial
WT 13	45766.17	West Tributary	Pine Park Trl.	7362.68	4.91	3.40	Culvert	Collector
WT 11	41441.59	West Tributary	Arroya Ln.	7263.64	0.79	6.31	Culvert	Collector
WT 10	21948.92	West Tributary	Woodmen Rd.	6894.11	166.00	1.14	Culvert	Arterial
WT 9	19961.38	West Tributary	Meridian Rd.	6852.33	240.00	1.05	Bridge	Arterial
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	6839.76	5.30	11.29	Culvert	Collector
WT 7-2	17647.61	West Tributary	Rail Road	6822.71	205.00	0.85	Bridge	Arterial
WT 7-1	17517.42	West Tributary	HWY 24	6821.01	216.00	1.03	Bridge	Arterial
WT 6	15318.93	West Tributary	Falcon Hwy.	6788.81	72.32	1.12	Culvert	Arterial
WT 5	14944.59	West Tributary	Meridian Rd.	6779.40	3.14	1.28	Culvert	Arterial
WT 5-2	14944.59	West Tributary	Meridian Rd.	6779.40	1.77	3.21	Culvert	Arterial
WT 4	9806.61	West Tributary	W. Condor Rd.	6714.46	12.57	1.97	Bridge	Collector
WT 3	8435.27	West Tributary	Garrett Rd.	6694.04	138.16	1.22	Bridge	Arterial
WT 1	5398.42	West Tributary	Blaney Rd.	6661.39	14.14	1.96	Bridge	Arterial
MT 7	10706	Middle Tributary	Owl Ln.	6920.72	2.2	4.37	Culvert	Collector
MT 6	7238	Middle Tributary	Woodmen Rd.	6880.41	37.7	7.19	Culvert	Arterial
MT 6-2	7238	Middle Tributary	Woodmen Rd.	6880.41	37.7	6.10	Culvert	Arterial
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	6854.10	110.19	1.54	Bridge	Collector
MT 4	5184.12	Middle Tributary	Rail Road	6836.55	456.13	0.83	Bridge	Arterial
MT 3	5035.56	Middle Tributary	HWY 24	6835.23	144	1.26	Bridge	Arterial
MT 2	3667.171	Middle Tributary	Swingline Rd.	6814.78	136.7	1.49	Bridge	Collector
MT 1	1661.946	Middle Tributary	Falcon Hwy.	6786.95	3.14	2.27	Culvert	Arterial
ET 32	32376.64	East Tributary	Liberty Grive Dr.	7158.61	19.2	1.80	Culvert	Collector
ET 31	28298.89	East Tributary	Stapleton Dr.	7085.40	30	3.76	Culvert	Arterial
ET 30	26454.7	East Tributary	Royal County Down Rd.	7053.22	28.3	3.04	Culvert	Collector
ET 26	23413.07	East Tributary	Rio Secco Ln.	7002.97	37.7	5.31	Culvert	Collector
ET 19	18092.76	East Tributary	Eastonville Rd.	6901.26	28.3	1.59	Culvert	Arterial
ET 15	14364.16	East Tributary	Rail Road	6855.04		0.52	Bridge	Arterial
ET 14	14215.6	East Tributary	HWY 24	6853.54	115.9	0.65	Bridge	Arterial
ET 13	12425.19	East Tributary	Pinto Pony Rd.	6819.07	25.1	2.18	Culvert	Collector
ET 11	8304.048	East Tributary	Falcon Hwy.	6768.14	39.3	1.53	Culvert	Arterial
ET 10	6243.929	East Tributary	N. Condor Rd.	6732.75	11.63	1.89	Culvert	Collector
ET 9	5333.859	East Tributary	Sunset Trl.	6722.59	12.6	1.84	Culvert	Collector
ET 4	2073.649	East Tributary	Garrett Rd.	6684.03	11.63	2.03	Culvert	Arterial

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Falcon DBPS
Future Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Overtopping Depth at Road (ft)	Max Allowable Overtopping Elev. (ft) ⁵	Fail Overtopping? ⁵	Allowable Hw/D ⁵	Max Allowable Hw Elev (ft) ⁵
WT 14	47262	West Tributary	Burgess Rd.	0.44	7408.51	Yes	1.50	7403.75
WT 13	45766.17	West Tributary	Pine Park Trl.	0.67	7362.51	Yes	1.50	7359.25
WT 11	41441.59	West Tributary	Arroya Ln.	1.63	7262.51	Yes	1.50	7259.00
WT 10	21948.92	West Tributary	Woodmen Rd.	-1.90	6896.51	No	1.11	6895.91
WT 9	19961.38	West Tributary	Meridian Rd.	-3.88	6856.71	No	Bridge	6851.00
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	1.75	6838.51	Yes	1.50	6836.75
WT 7-2	17647.61	West Tributary	Rail Road	-3.30	6826.51	No	Bridge	6821.83
WT 7-1	17517.42	West Tributary	HWY 24	-3.67	6825.18	No	Bridge	6818.83
WT 6	15318.93	West Tributary	Falcon Hwy.	0.63	6788.68	Yes	1.43	6790.70
WT 5	14944.59	West Tributary	Meridian Rd.	1.39	6778.51	Yes	1.50	6779.83
WT 5-2	14944.59	West Tributary	Meridian Rd.	1.39	6778.51	Yes	1.50	6777.25
WT 4	9806.61	West Tributary	W. Condor Rd.	1.45	6713.51	Yes	Bridge	6709.08
WT 3	8435.27	West Tributary	Garrett Rd.	-1.91	6696.45	No	Bridge	6691.58
WT 1	5398.42	West Tributary	Blaney Rd.	1.38	6660.51	Yes	Bridge	6656.83
MT 7	10706	Middle Tributary	Owl Ln.	0.71	6920.51	Yes	1.50	6919.81
MT 6	7238	Middle Tributary	Woodmen Rd.	0.40	6880.51	Yes	1.50	6880.16
MT 6-2	7238	Middle Tributary	Woodmen Rd.	0.40	6880.51	Yes	1.50	6878.58
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	0.09	6854.51	No	Bridge	6849.47
MT 4	5184.12	Middle Tributary	Rail Road	-3.46	6840.51	No	Bridge	6836.08
MT 3	5035.56	Middle Tributary	HWY 24	-1.45	6837.18	No	Bridge	6831.67
MT 2	3667.171	Middle Tributary	Swingline Rd.	-1.23	6816.51	No	Bridge	6809.91
MT 1	1661.946	Middle Tributary	Falcon Hwy.	0.94	6786.51	Yes	1.50	6785.58
ET 32	32376.64	East Tributary	Liberty Grive Dr.	0.20	7158.91	No	1.50	7158.22
ET 31	28298.89	East Tributary	Stapleton Dr.	0.39	7085.51	Yes	1.50	7082.58
ET 30	26454.7	East Tributary	Royal County Down Rd.	0.21	7053.51	No	1.50	7047.00
ET 26	23413.07	East Tributary	Rio Secco Ln.	0.96	7002.51	Yes	1.50	6988.67
ET 19	18092.76	East Tributary	Eastonville Rd.	-0.23	6901.99	No	1.50	6901.33
ET 15	14364.16	East Tributary	Rail Road	-4.97	6860.51	No	Bridge	6856.13
ET 14	14215.6	East Tributary	HWY 24	-5.47	6859.51	No	Bridge	6853.25
ET 13	12425.19	East Tributary	Pinto Pony Rd.	1.06	6818.51	Yes	1.50	6816.50
ET 11	8304.048	East Tributary	Falcon Hwy.	0.38	6768.26	Yes	1.50	6768.25
ET 10	6243.929	East Tributary	N. Condor Rd.	0.74	6732.51	Yes	1.50	6731.51
ET 9	5333.859	East Tributary	Sunset Trl.	0.58	6722.51	Yes	1.50	6721.42
ET 4	2073.649	East Tributary	Garrett Rd.	0.02	6684.51	Yes	1.50	6683.34

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Falcon DBPS
Future Drainageway Crossing Deficiency Analysis

Crossing	River Station	Tributary	Location	Fail Hw/D? ⁵	Bridge Freeboard (ft) ⁵	Fail Bridge Freeboard? ⁵	FAIL?	Reason
WT 14	47262	West Tributary	Burgess Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
WT 13	45766.17	West Tributary	Pine Park Trl.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
WT 11	41441.59	West Tributary	Arroya Ln.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
WT 10	21948.92	West Tributary	Woodmen Rd.	Yes			Yes	Does Not Meet Hw/D Criteria
WT 9	19961.38	West Tributary	Meridian Rd.	Bridge	0.67	Yes	Yes	Does Not Meet Freeboard Criteria
Pond WU Inlet Structure	18654	West Tributary	Tamlin Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
WT 7-2	17647.61	West Tributary	Rail Road	Bridge	1.12	Yes	Yes	Does Not Meet Freeboard Criteria
WT 7-1	17517.42	West Tributary	HWY 24	Bridge	-0.18	Yes	Yes	Does Not Meet Freeboard Criteria
WT 6	15318.93	West Tributary	Falcon Hwy.	No			Yes	Overtops
WT 5	14944.59	West Tributary	Meridian Rd.	No			Yes	Overtops
WT 5-2	14944.59	West Tributary	Meridian Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
WT 4	9806.61	West Tributary	W. Condor Rd.	Bridge	-3.38	Yes	Yes	Overtops, Does Not Meet Freeboard Criteria
WT 3	8435.27	West Tributary	Garrett Rd.	Bridge	-0.46	Yes	Yes	Does Not Meet Freeboard Criteria
WT 1	5398.42	West Tributary	Blaney Rd.	Bridge	-2.56	Yes	Yes	Overtops, Does Not Meet Freeboard Criteria
MT 7	10706	Middle Tributary	Owl Ln.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
MT 6	7238	Middle Tributary	Woodmen Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
MT 6-2	7238	Middle Tributary	Woodmen Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
MT 5-1	6276.979	Middle Tributary	McLaughlin Rd.	Bridge	-2.63	Yes	Yes	Does Not Meet Freeboard Criteria
MT 4	5184.12	Middle Tributary	Rail Road	Bridge	1.53	Yes	Yes	Does Not Meet Freeboard Criteria
MT 3	5035.56	Middle Tributary	HWY 24	Bridge	-1.56	Yes	Yes	Does Not Meet Freeboard Criteria
MT 2	3667.171	Middle Tributary	Swingline Rd.	Bridge	-2.8667	Yes	Yes	Does Not Meet Freeboard Criteria
MT 1	1661.946	Middle Tributary	Falcon Hwy.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 32	32376.64	East Tributary	Liberty Grive Dr.	Yes			Yes	Does Not Meet Hw/D Criteria
ET 31	28298.89	East Tributary	Stapleton Dr.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 30	26454.7	East Tributary	Royal County Down Rd.	Yes			Yes	Does Not Meet Hw/D Criteria
ET 26	23413.07	East Tributary	Rio Secco Ln.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 19	18092.76	East Tributary	Eastonville Rd.	Yes			Yes	Does Not Meet Hw/D Criteria
ET 15	14364.16	East Tributary	Rail Road	Bridge	3.09	No	No	
ET 14	14215.6	East Tributary	HWY 24	Bridge	1.71	Yes	Yes	Does Not Meet Freeboard Criteria
ET 13	12425.19	East Tributary	Pinto Pony Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 11	8304.048	East Tributary	Falcon Hwy.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 10	6243.929	East Tributary	N. Condor Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 9	5333.859	East Tributary	Sunset Trl.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria
ET 4	2073.649	East Tributary	Garrett Rd.	Yes			Yes	Overtops, Does Not Meet Hw/D Criteria

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Falcon DBPS
Future Detention Pond Deficiency Analysis (overtopping only)

Pond	HEC-RAS River Station	Tributary	RAS	Spillway Elevation (ft) ¹	RAS	HMS	Overtopping ³	RAS Overtopping	HMS Overtopping
			100-yr Flow (cfs)		100-yr WSE (ft)	100-yr WSE (ft) ²			
Pond WU Outlet Structure	17840	West Tributary	1347	6832	6833	6832	YES	YES	NO
Paint Brush Hills Pond A Outlet Structure	N/A	West Tributary	N/A	7148	N/A	7148.7	YES	N/A	YES
Paint Brush Hills Pond B1 Outlet Structure	N/A	West Tributary	N/A	7158	N/A	7158.1	YES	N/A	YES
Paint Brush Hills Pond B2 Outlet Structure	N/A	West Tributary	N/A	7148	N/A	7148.4	YES	N/A	YES
Paint Brush Hills Pond C Outlet Structure	N/A	West Tributary	N/A	7200	N/A	7200.3	YES	N/A	YES
The Meadows Pond #1 Outlet Structure	N/A	West Tributary	N/A	7015	N/A	7013.0	NO	N/A	NO
The Meadows Pond #2 Outlet Structure	15205.815	Middle Tributary	160	7011	7005	7010	NO	NO	NO
Regional Pond MN Outlet Structure	6420.9204	Middle Tributary	1184	6854	6854	6855	YES	YES	YES
Woodmen Hills Pond #5 Outlet Structure	N/A	Middle Tributary	N/A	6854	N/A	6853.6	NO	N/A	NO
Woodmen Hills Pond H Outlet Structure	N/A	Middle Tributary	N/A	6976	N/A	6978.0	YES	N/A	YES
Paint Brush Hills Pond #4 Outlet Structure	31486	East Tributary	200	7134	7136	7135	YES	YES	YES
Woodmen Hills Pond #1 North Outlet Structure	21604.86	East Tributary	693	6960	6962	6959	YES	YES	NO
Woodmen Hills Pond #1 South Outlet Structure	21169.19	East Tributary	693	6954	6948	6956	YES	NO	YES
Woodmen Hills Pond #2 Outlet Structure	19810.83	East Tributary	585	6930	6926	6932	YES	NO	YES
Woodmen Hills Pond #3 Outlet Structure	18205.02	East Tributary	558	6902	6903	6903	YES	YES	YES
Woodmen Hills Pond #4 Outlet Structure	14543.949	East Tributary	712	6860	6857	6861	YES	NO	YES

Notes:

¹ Based on topography

² In some cases the reported 100-yr flow is different between models because only a limited amount of flow change locations were used in the HEC-RAS model

³ Assumed overtopping if either HEC-RAS or HEC-HMS indicated a 100-yr WSE above the spillway elevation

* The results of the 100-yr WSE varied greatly in some cases because of the way each of the programs calculates the water surface within a detention pond system. HEC-HMS calculates the water surface based on hydrologic routing using hydrograph. HEC-RAS calculates the water surface based on peak flow and culvert hydraulics.

** Potential deficiency is based on spillway overtopping only

*** "N/A" means pond was not on main tributary branch and was not modeled in HEC-RAS, but was modeled in HEC-HMS

**Falcon DBPS
Storm Sewer Deficiency Analysis**

Storm Drain System - Identification				Storm Drain System - Pipe & Street Capacity										Hydrology & System Deficiencies											
TAG	Serial Number	ID	Description	Pipe						Street			Total	Sub-Basin Hydrology			% of Basin Flow to System		Hydraulic Deficiency						
				Length Ft	Est.	Est.	Manning's n	Material	Shape	Diameter Inches	Full Pipe Capacity CFS	Type	Width Ft	Capacity to Top of Curb cfs	Available Capacity cfs	Basin ID	100 Year		%	Surcharge Flow		Surcharge Flow			
					Fall Ft	Slope Ft/Ft											Existing cfs	Future cfs		Existing cfs	Future cfs	Existing cfs	Future %		
FF	CHWS1400PI2203	DP149747	Gelbvieh Rd at Swingline Rd	184	3	0.016	0.013	RCP	Round	24	28.6	Residential	30	30	59	MT110	120	120	20%	24	24	0	0%	0	0%
FF	CHWS1400PI2202	DP149748	Gelbvieh Rd at Swingline Rd	279	1.4	0.005	0.013	RCP	Round	24	16.0	Residential	30	17	33	MT110	120	120	20%	24	24	0	0%	0	0%
EE	CHWS1400PI2602	DP149754	Maybeck View	151	1	0.007	0.013	RCP	Round	42	84.2	Residential	30	19	104	MT090	120	130	50%	60	65	0	0%	0	0%
EE	CHWS1400PI2603	DP149755	Maybeck View	242	1.3	0.005	0.013	RCP	Round	42	71.1	Residential	30	17	89	MT090	120	130	50%	60	65	0	0%	0	0%
EE	CHWS1400PI2604	DP149758	Maybeck View	149	0.8	0.005	0.013	RCP	Round	30	29.0	Residential	30	17	46	MT090	120	130	50%	60	65	14	23%	19	29%
EE	CHWS1400PI2606	DP149762	Maybeck View	163	2	0.012	0.013	RCP	Round	18	10.5	Residential	30	26	37	MT090	120	130	50%	60	65	23	38%	28	43%
EE	CHWS1400PI2682	DP149763	Maybeck View	148	1	0.007	0.024	CPP	Round	18	4.8	N/A	0	0	5	MT090	120	130	50%	60	65	55	92%	60	93%
J	CHWS1400PI5011	DP149767	Liberty Grove Dr at Waterbury Dr	90	2	0.022	0.013	RCP	Round	24	33.6	Collector	40	33	66	ET020	260	320	50%	130	160	64	49%	94	58%
B	CHWS1400PI5401	DP149770	London Derry Dr (E of Stapleton Dr)	65	2	0.031	0.013	RCP	Round	30	72.2	Collector	40	39	111	ET010	150	170	50%	75	85	0	0%	0	0%
F	CHWS1400PI4001	DP149774	Rockingham Dr (East)	222	4	0.018	0.013	RCP	Round	42	135.0	N/A	0	0	135	WT160	180	180	30%	54	54	0	0%	0	0%
H	CHWS1400PI4201	DP149782	Caverhill Dr	267	6	0.022	0.013	RCP	Round	30	60.8	Residential	30	36	96	WT150	140	200	20%	28	40	0	0%	0	0%
B	CHWS1400PI5403	DP149783	London Derry Dr (E of Stapleton Dr)	515	20	0.039	0.013	RCP	Round	24	44.7	Collector	40	43	88	ET010	150	170	50%	75	85	0	0%	0	0%
B	CHWS1400PI5404	DP149784	London Derry Dr (E of Stapleton Dr)	112	1.12	0.010	0.013	RCP	Round	18	10.5	Collector	40	22	33	ET010	150	170	50%	75	85	42	57%	52	62%
E	CHWS1400EP3251	DP150687	Rockingham Dr at keating Dr	430	9	0.021	0.013	RCP	Round	24	32.8	Residential	30	34	67	WT130	170	170	30%	51	51	0	0%	0	0%
E	CHWS1400EP3202	DP150688	Rockingham Dr at keating Dr	350	8	0.023	0.013	RCP	Round	30	62.2	Residential	30	36	98	WT130	170	170	30%	51	51	0	0%	0	0%
E	CHWS1400EP3011	DP150690	Rockingham Dr at keating Dr	289	4	0.014	0.013	RCP	Round	36	78.9	Residential	30	28	107	WT130	170	170	30%	51	51	0	0%	0	0%
F	CHWS1400EP4051	DP150695	Rockingham Dr (East)	431	3.5	0.008	0.013	RCP	Round	24	20.2	Residential	30	21	42	WT160	180	180	30%	54	54	12	23%	12	23%
G	CHWS1400EP4731	DP150698	London Derry Dr at Witherbee & Duxbury	438	4	0.009	0.013	RCP	Round	24	21.5	Collector	40	21	43	WT150	140	200	20%	28	40	0	0%	0	0%
G	CHWS1400EP4702	DP150699	London Derry Dr at Witherbee & Duxbury	300	3	0.010	0.013	RCP	Round	24	22.6	Collector	40	22	45	WT150	140	200	20%	28	40	0	0%	0	0%
G	CHWS1400EP4701	DP150700	London Derry Dr at Witherbee & Duxbury	326	1.6	0.005	0.013	RCP	Round	30	29.0	Collector	40	15	44	WT150	140	200	20%	28	40	0	0%	0	0%
I	CHWS1400EP4801	DP150702	London Derry Dr at Stapleton Dr N (near Duxbury)	161	3	0.019	0.013	RCP	Round	24	31.2	Collector	40	30	61	WT150	140	200	20%	28	40	0	0%	0	0%
H	CHWS1400EP4203	DP150705	Caverhill Dr	258	3	0.012	0.013	RCP	Round	24	24.8	Residential	30	26	50	WT150	140	200	20%	28	40	0	0%	0	0%
C	CHWS1400EP5201	DP150712	Cranston Dr	245	2.5	0.010	0.013	RCP	Round	30	41.0	N/A	0	0	41	ET020	260	320	50%	130	160	89	68%	119	74%
EE	CHWS1400EP2608	DP150714	Maybeck View	357	4	0.011	0.024	CPP	Round	18	6.0	N/A	0	0	6	MT090	120	130	50%	60	65	54	90%	59	91%
A	CHWS1400EP5601	DP150717	London Derry Dr (W of Stapleton Dr)	165	1.4	0.008	0.013	RCP	Round	30	36.7	Collector	40	20	57	WT140	110	150	25%	27.5	37.5	0	0%	0	0%
D		DP289646	Rockingham Dr Storm Pipe	600	8	0.013	0.013	Concrete	Round	0		Residential	30	27	27	WT130	170	170	40%	68	68	41	60%	41	60%
AA		DP292132	Midnight Rd Storm Pipe	460	6	0.013	0.013	RCP	Round	24	25.8	Residential	30	27	53	ET080	440	450	25%	110	112.5	57	52%	60	53%
AA		DP292133	Midnight Rd Storm Pipe	465	3	0.006	0.013	RCP	Round	30	31.8	Residential	30	19	51	ET080	440	450	25%	110	112.5	59	54%	62	55%
AA		DP292144	Comeapart Rd Storm Pipe	474	10	0.021	0.013	RCP	Round	24	32.8	Residential	30	35	67	ET080	440	450	25%	110	112.5	43	39%	45	40%
S		DP292147	McClure Rd Storm Pipe	385	2	0.005	0.013	RCP	Round	30	29.0	Residential	30	17	46	ET050	200	200	50%	100	100	54	54%	54	54%
CC		DP292150	Greenough Rd Storm Pipe	282	4.5	0.016	0.013	RCP	Round	24	28.6	Residential	30	30	59	ET080	440	450	25%	110	112.5	51	47%	54	48%
CC		DP292151	Greenough Rd Storm Pipe	423	2.5	0.006	0.013	RCP	Round	30	31.8	Residential	30	18	50	ET080	440	450	25%	110	112.5	60	54%	62	55%
CC		DP292158	Greenough Rd Storm Pipe	278	2.5	0.009	0.013	RCP	Round	42	95.4	Residential	30	23	118	ET080	440	450	25%	110	112.5	0	0%	0	0%
CC		DP292159	Greenough Rd Storm Pipe	250	2.5	0.010	0.013	RCP	Round	36	66.7	Residential	30	24	91	ET080	440	450	25%	110	112.5	19	18%	22	20%
CC		DP292164	Greenough Rd Storm Pipe	231	4	0.017	0.013	RCP	Round	18	13.7	Residential	30	31	45	ET080	440	450	25%	110	112.5	65	59%	67	60%
Z		DP292176	Fort Smith Rd Storm Pipe	479	3	0.006	0.013	RCP	Round	42	77.9	Residential	30	19	97	ET070	460	460	30%	138	138	41	30%	41	30%
Z		DP292177	Fort Smith Rd Storm Pipe	511	3	0.006	0.013	RCP	Round	42	77.9	Residential	30	18	96	ET070	460	460	30%	138	138	42	30%	42	30%
Z		DP292184	Fort Smith Rd Storm Pipe	235	2.5	0.011	0.013	RCP	Round	36	70.0	Residential	30	25	95	ET070	460	460	30%	138	138	43	31%	43	31%
Z		DP292186	Fort Smith Rd Storm Pipe	180	3.5	0.019	0.013	RCP	Round	30	56.5	Residential	30	33	90	ET070	460	460	30%	138	138	48	35%	48	35%
Z		DP292188	Fort Smith Rd Storm Pipe	488	12	0.025	0.013	RCP	Round	30	64.9	Residential	30	37	102	ET070	460	460	30%	138	138	36	26%	36	26%
Z		DP292200	Fort Smith Rd Storm Pipe	57	1.5	0.026	0.013	RCP	Round	24	36.5	Residential	30	39	75	ET070	460	460	30%	138	138	63	45%	63	45%
Z		DP292201	Fort Smith Rd Storm Pipe	440	9	0.020	0.013	RCP	Round	18	14.9	Residential	30	34	49	ET070	460	460	30%	138	138	89	65%	89	65%
Y		DP292204	Buschborn Rd Storm Pipe	329	2	0.006	0.013	RCP	Round	36	51.7	Residential	30	19	70	ET070	460	460	20%	92	92	22	24%	22	24%
Y		DP292207	Buschborn Rd Storm Pipe	349	2	0.006	0.013	RCP	Round	30	31.8	Residential	30	18	50	ET070	460	460	20%	92	92	42	46%	42	46%
Y		DP292208	Buschborn Rd Storm Pipe	362	5	0.014	0.013	RCP	Round	30	48.5	Residential	30	28	76	ET070	460	460	20%	92	92	16	17%	16	17%
Y		DP292213	Buschborn Rd Drain/Inlet	242	4	0.017	0.013	RCP	Round	18	13.7	Residential	30	31	44	ET070	460	460	20%	92	92	48	52%	48	52%
Z		DP292214	Fort Smith Rd Storm Pipe	435	3	0.007	0.013	RCP	Round	42	84.2	Residential	30	20	104	ET070	460	460	30%	138	138	34	25%	34	25%
Z		DP292215	Fort Smith Rd Storm Pipe	374	2	0.005	0.013	RCP	Round	42	71.1	Residential	30	17	88	ET070	460	460	30%	138	138	50	36%	50	36%
V		DP292218	Gladewater Rd Storm Pipe	278	1.5	0.005	0.013	RCP	Round	24	16.0	Residential	30	17	33	ET070	460	460	10%	46	46	13	27%	13	27%
V		DP292219	Gladewater Rd Storm Pipe	284	1.5	0.005	0.013	RCP	Round	24	16.0	Residential	30	17	33	ET070	460	460	10%	46	46	13	28%	13	28%

**Falcon DBPS
Storm Sewer Deficiency Analysis**

Storm Drain System - Identification				Storm Drain System - Pipe & Street Capacity										Hydrology & System Deficiencies											
TAG	Serial Number	ID	Description	Pipe						Street			Total Available Capacity cfs	Sub-Basin Hydrology			% of Basin Flow to System		Hydraulic Deficiency						
				Length Ft	Est. Fall Ft	Est. Slope Ft/Ft	Manning's n	Material	Shape	Diameter Inches	Full Pipe Capacity CFS	Type		Width Ft	Capacity to Top of Curb cfs	Basin ID	100 Year		Surcharge Flow		Surcharge Flow				
																	Existing cfs	Future cfs	Existing cfs	Future cfs	Existing cfs	Future cfs			
U		DP292224	Tompkins Rd Storm Pipe	94	0.9	0.010	0.013	RCP	Round	18	22.6	Residential	30	23	46	ET060	530	530	10%	53	53	7	13%	7	13%
Q		DP292277	Champie Rd Storm Pipe	350	6	0.017	0.013	RCP	Round	48	187.3	Collector	40	29	216	ET060	530	530	60%	318	318	102	32%	102	32%
Q		DP292283	Woodmen Hills Dr Storm Pipe	204	2	0.010	0.013	RCP	Round	30	41.0	Collector	40	22	63	ET060	530	530	60%	318	318	255	80%	255	80%
Q		DP292284	Woodmen Hills Dr Storm Pipe	196	1	0.005	0.013	RCP	Round	30	29.0	Collector	40	16	45	ET060	530	530	60%	318	318	273	86%	273	86%
Q		DP292286	Woodmen Hills Dr Storm Pipe	462	11	0.024	0.013	RCP	Round	48	222.5	Collector	40	34	256	ET060	530	530	60%	318	318	62	19%	62	19%
Q		DP292288	Woodmen Hills Dr Storm Pipe	509	5	0.010	0.013	RCP	Round	48	143.6	Collector	40	22	165	ET060	530	530	60%	318	318	153	48%	153	48%
P		DP292290	Tompkins Rd Storm Pipe	239	6	0.025	0.013	RCP	Round	18	16.6	Residential	30	38	54	ET040	170	170	80%	136	136	82	60%	82	60%
R		DP292292	Tompkins Rd Storm Pipe	227	4	0.018	0.013	RCP	Round	30	55.0	Residential	30	32	87	ET050	200	200	50%	100	100	13	13%	13	13%
R		DP292293	Tompkins Rd Storm Pipe	348	2	0.006	0.013	RCP	Round	30	31.8	Residential	30	18	50	ET050	200	200	50%	100	100	50	50%	50	50%
R		DP292294	Tompkins Rd Storm Pipe	278	5	0.018	0.013	RCP	Round	48	192.7	Residential	30	32	225	ET050	200	200	50%	100	100	0	0%	0	0%
R		DP292297	Tompkins Rd Storm Pipe	211	6	0.028	0.013	RCP	Round	48	240.4	Residential	30	40	281	ET050	200	200	50%	100	100	0	0%	0	0%
P		DP292300	Woodmen Hills Dr Storm Pipe	392	3	0.008	0.013	RCP	Round	36	59.7	Collector	40	19	79	ET040	170	170	20%	34	34	0	0%	0	0%
P		DP292303	Woodmen Hills Dr Storm Pipe	74	1	0.014	0.013	RCP	Round	36	78.9	Collector	40	26	104	ET040	170	170	20%	34	34	0	0%	0	0%
BB		DP292314	Eastonville Rd Storm Pipe	109	0.6	0.006	0.013	RCP	Round	36	51.7	Collector	40	16	68	ET080	440	450	25%	110	112.5	42	38%	44	40%
AA		DP292326	Midnight Rd Storm Pipe	411	6	0.015	0.013	RCP	Round	42	123.2	Collector	40	27	150	ET080	440	450	25%	110	112.5	0	0%	0	0%
X		DP292330	Gladewater Rd Storm Pipe	455	2.3	0.005	0.013	RCP	Round	24	16.0	Residential	30	17	33	ET070	460	460	10%	46	46	13	28%	13	28%
X		DP292331	Gladewater Rd Storm Pipe	173	1	0.006	0.013	RCP	Round	24	17.5	Residential	30	18	36	ET070	460	460	10%	46	46	10	23%	10	23%
BB		DP292333	McLaughlin Rd Storm Pipe	309	3	0.010	0.013	RCP	Round	24	22.6	Collector	40	22	44	ET080	440	450	25%	110	112.5	66	60%	68	61%
BB		DP292334	McLaughlin Rd Storm Pipe	277	4.5	0.016	0.013	RCP	Round	48	181.7	Collector	40	28	210	ET080	440	450	25%	110	112.5	0	0%	0	0%
Q		DP292335	Eastonville Rd Storm Pipe	392	3	0.008	0.013	RCP	Round	54	175.9	Collector	40	19	195	ET060	530	530	60%	318	318	123	39%	123	39%
AA		DP292337	Midnight Rd Storm Pipe	300	10	0.033	0.013	RCP	Round	36	121.2	Collector	40	40	161	ET080	440	450	25%	110	112.5	0	0%	0	0%
U		DP292345	Tompkins Rd Storm Pipe	219	2.2	0.010	0.013	RCP	Round	24	22.6			23		ET060	530	530	10%	53	53	30	57%	30	57%
P		DP292350	Woodmen Hills Dr Storm Pipe	85	1	0.012	0.013	RCP	Round	36	73.1	Collector	40	24	97	ET040	170	170	80%	136	136	39	29%	39	29%
P		DP292353	Woodmen Hills Dr Storm Pipe	346	2	0.006	0.013	RCP	Round	36	51.7	Collector	40	17	68	ET040	170	170	80%	136	136	68	50%	68	50%
N		DP292623	Pine Valley Cir Junction	170	1	0.006	0.013	RCP	Round	24	17.5	Residential	30	18	36	ET030	190	200	30%	57	60	21	37%	24	40%
N		DP292640	Royal Melbourne Cir Stormpipe	197	1	0.005	0.013	RCP	Round	42	71.1	Residential	30	17	88	ET030	190	200	30%	57	60	0	0%	0	0%
U		DP292848	Tomkins Rd at McLaughlin Rd - F9 Outfall	181	7	0.039	0.013	RCP	Round	24	44.7			45		ET060	530	530	10%	53	53	8	16%	8	16%
S		DP292912	McClure Rd at Saddleman Rd - F9	76	1.3	0.017	0.013	RCP	Round	30	53.5			54		ET050	200	200	50%	100	100	47	47%	47	47%
W		DP292930	Tomkins Rd Storm Drain Pipe	196	4	0.020	0.013	RCP	Round	24	32.0			32		ET070	460	460	5%	23	23	0	0%	0	0%
Z		DP292931	Fort Smith Rd Storm Drain Pipe	187	2	0.011	0.013	RCP	Round	42	105.5			106		ET070	460	460	30%	138	138	33	24%	33	24%
Y		DP292932	Buschborn Rd Storm Drain Pipe	511	3	0.006	0.013	RCP	Round	36	51.7	Residential	30	18	70	ET070	460	460	20%	92	92	22	24%	22	24%
V		DP292934	Gladwater Rd Storm Drain Pipe	218	6	0.027	0.013	RCP	Round	36	111.6	Residential	30	39	151	ET070	460	460	10%	46	46	0	0%	0	0%
DD		DP292940	Mc Laughlin Rd Storm Drain Pip	61	0.5	0.008	0.013	RCP	Round	24	20.2			20		ET080	440	450	20%	88	90	68	77%	70	78%
X		DP292941	Gladwater Rd Storm Drain Pipe	178	3	0.017	0.013	RCP	Round	36	87.0			87		ET070	460	460	10%	46	46	0	0%	0	0%
O		DP292942	Tomkins Rd Storm Drain Pipe	101	2	0.020	0.013	RCP	Round	42	45.0			45		ET040	170	170	75%	127.5	127.5	83	65%	83	65%
Y		DP293085	Buschborn Rd	78	2	0.026	0.013	RCP	Round	24	36.5	Residential	30	38	75	ET070	460	460	20%	92	92	17	19%	17	19%

- Notes: 1) Storm Systems without a defined size were not analyzed.
2) The allowable street flow is determined from $Y \cdot (\text{slope}^{0.5})$, where the value of "Y" for the 100 year storm, is found in the adjacent table.
3) These street capacity values are for a full street section to top-of-curb.
4) Pipe and street slopes were estimated from surface contours.
5) Flows to the storm drain systems are derived from visual estimation of the percentage of actual tributary areas within the DBPS Sub-Basins.
6) Streets widths were measured with Google Earth and were categorized into 2 general types: 40 ft collector and 30 ft residential.

Width (ft)	"Y" cfs
30	238
40	220