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NORTH AMERICAN HYDRO, INC.
AU TRAIN HYDROELECTRIC PROJECT
SPILLWAY CAPACITY MODIFICATIONS
F.E.R.C. PROJECT No. 10856

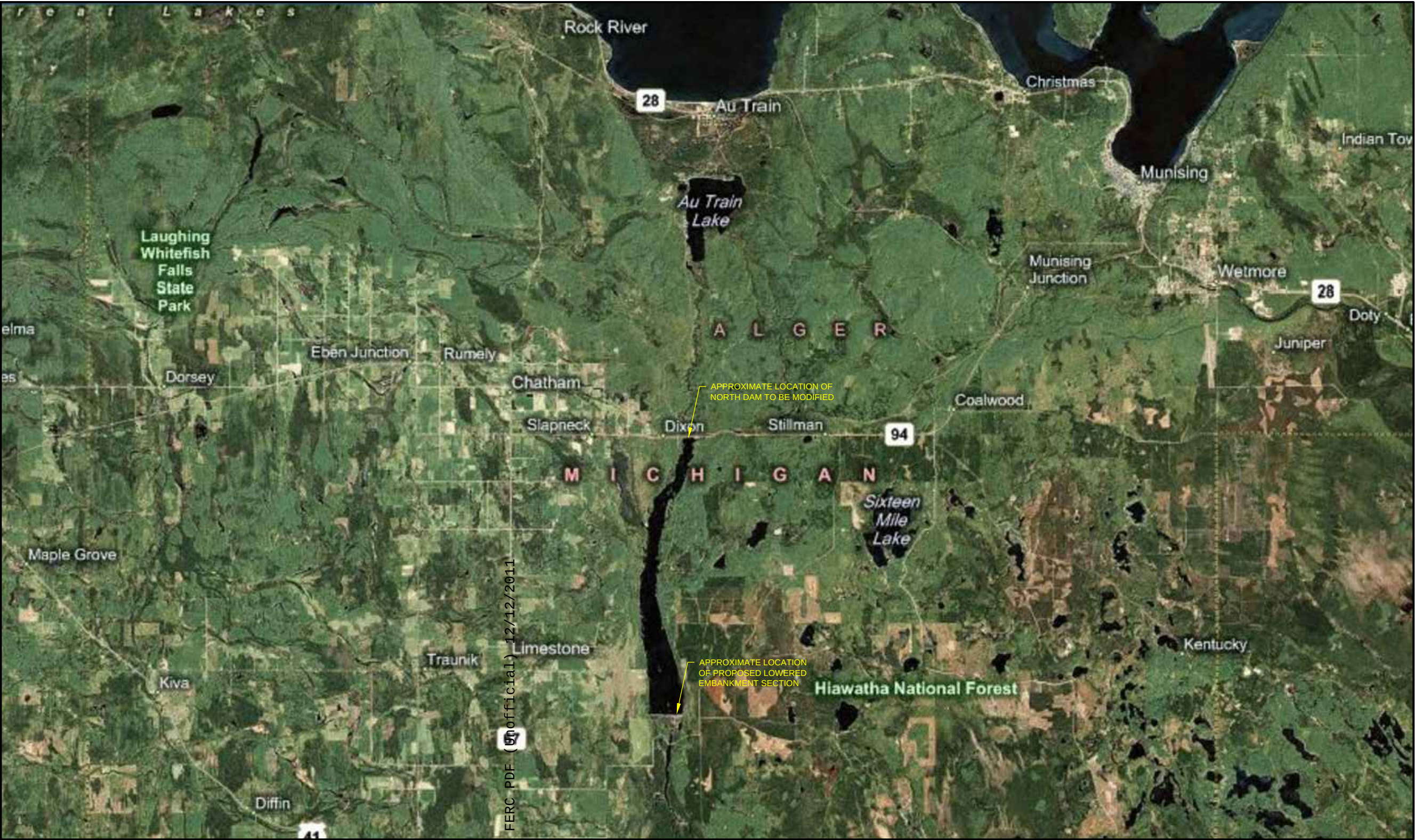
REVISION

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

FERC NO. 10856
MAH NO.: 14108-00-114919.01
DATE: AUGUST 22, 2011
DESIGNED BY: NLH
DRAWN BY: DMS
CHECKED BY: JJB

DO NOT SCALE DRAWINGS

SHEET CONTENTS
SPILLWAY CAPACITY
MODIFICATIONS
PROJECT SITE MAP



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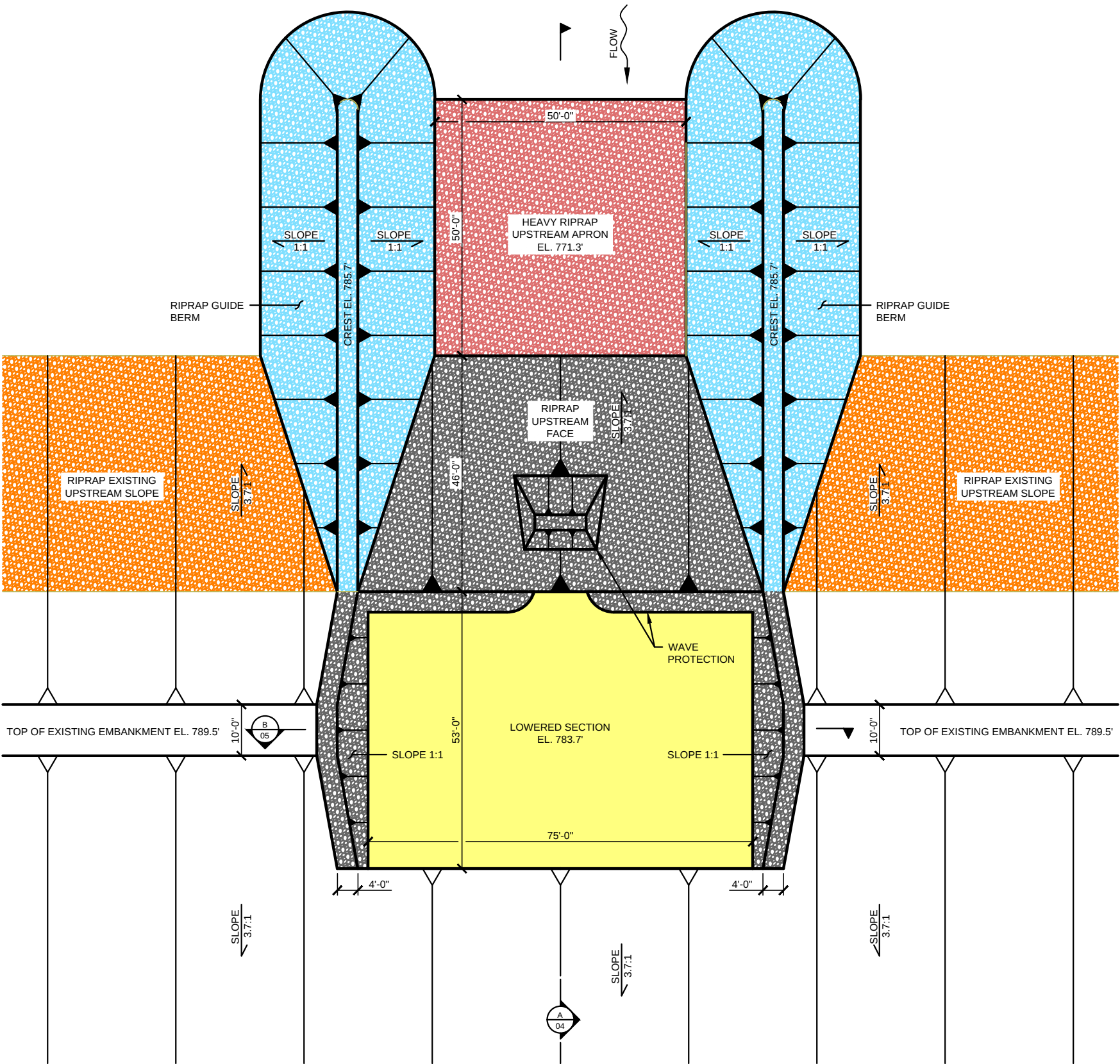
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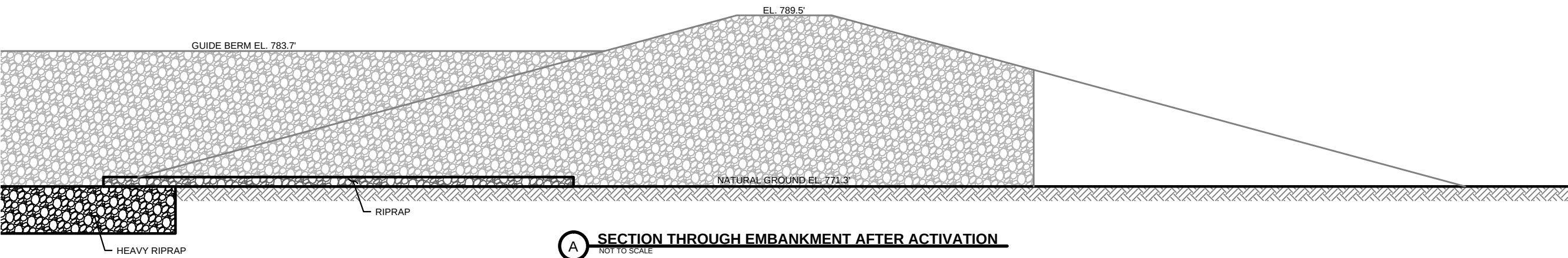
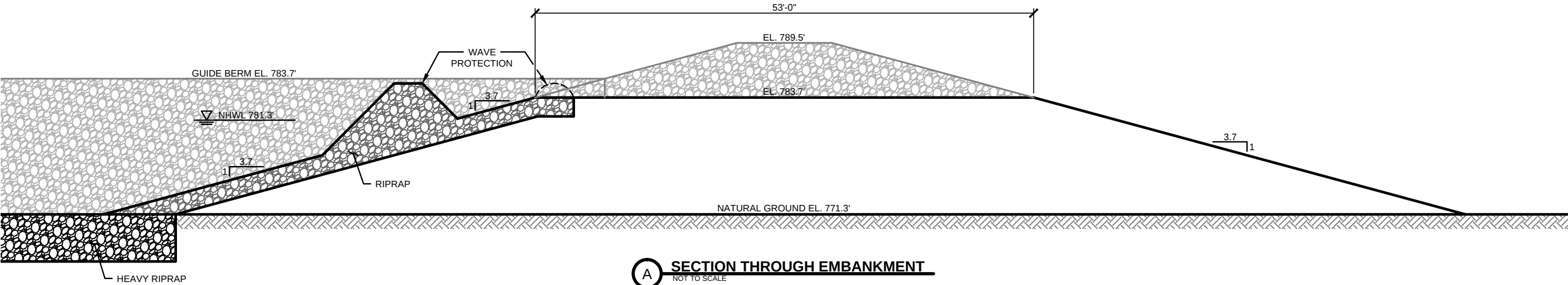
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SHEET CONTENTS
SOUTH LEVEE
MODIFICATIONS PLAN
VIEW



1 PLAN VIEW OF SOUTH EMBANKMENT MODIFICATIONS
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SHEET CONTENTS
SOUTH LEVEE
MODIFICATIONS
SECTIONS 1

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SPILLWAY CAPACITY MODIFICATIONS
F.E.R.C. PROJECT No. 10856

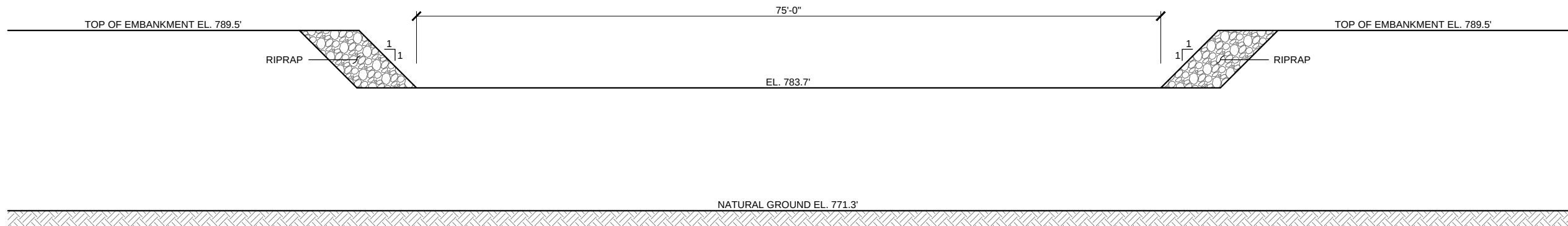
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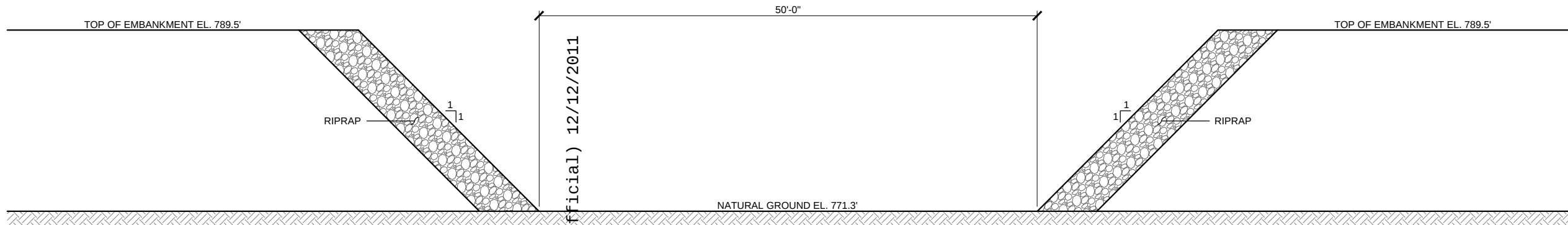
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SHEET CONTENTS
SOUTH LEVEE
MODIFICATIONS
SECTIONS 2



B SECTION ALONG EMBANKMENT
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SECTION ALONG EMBANKMENT AFTER ACTIVATION
NOT TO SCALE

20111212-4013 FERC PROJECT (Unofficial) 12/12/2011

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AU TRAIN HYDROELECTRIC PROJECT
SPILLWAY CAPACITY MODIFICATIONS
F.E.R.C. PROJECT No. 10856

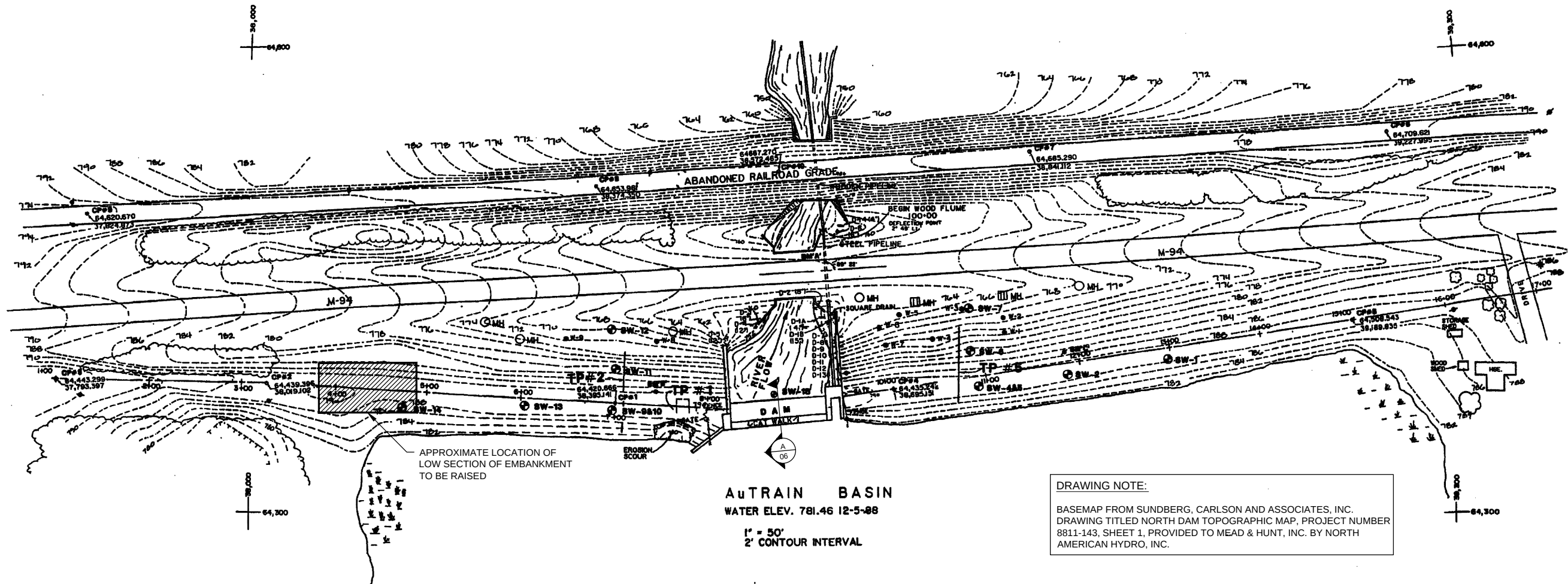
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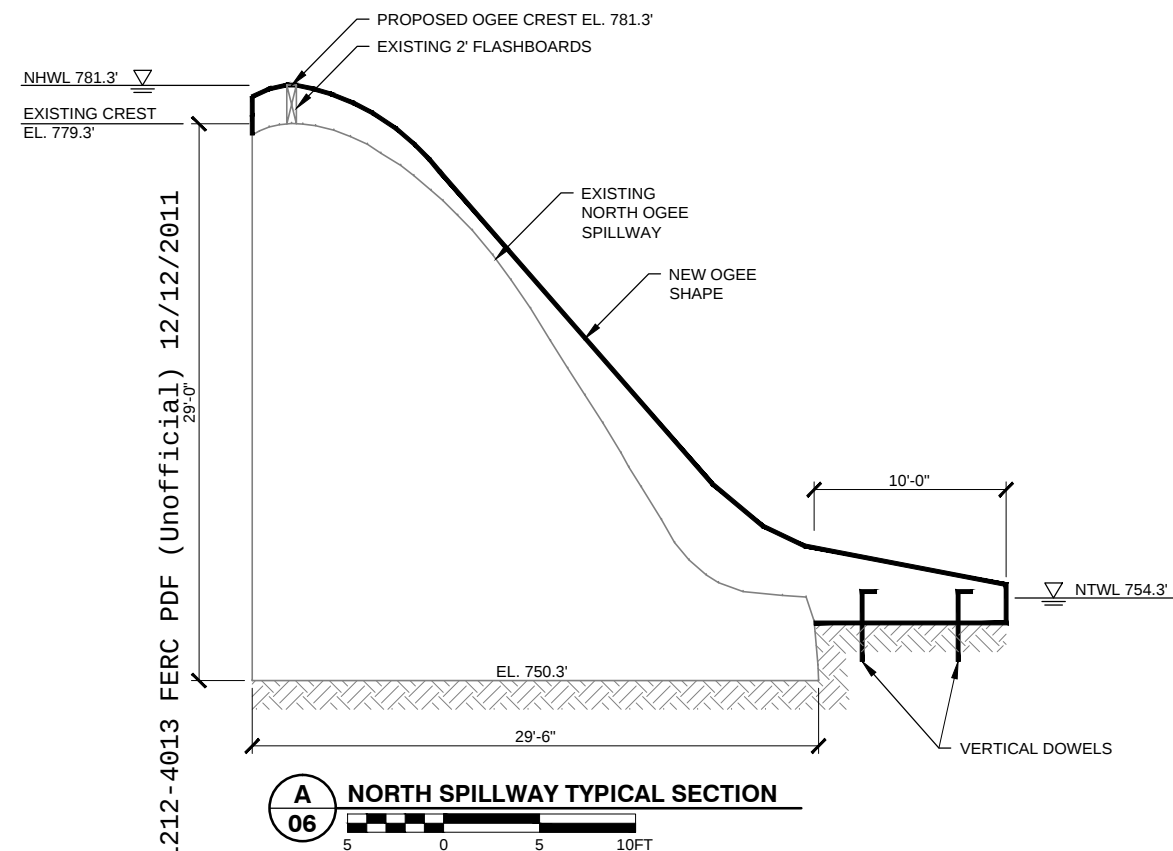
SHEET CONTENTS
NORTH DAM
MODIFICATIONS PLAN
AND SECTION



AU TRAIN BASIN
WATER ELEV. 781.46 12-5-08
1" = 50'
2' CONTOUR INTERVAL

DRAWING NOTE:

BASEMAP FROM SUNDBERG, CARLSON AND ASSOCIATES, INC.
DRAWING TITLED NORTH DAM TOPOGRAPHIC MAP, PROJECT NUMBER
8811-143, SHEET 1, PROVIDED TO MEAD & HUNT, INC. BY NORTH
AMERICAN HYDRO, INC.

















Headwater-Discharge Rating Curve for Proposed Modifications

Au Train Hydroelectric Facility

North Spillway

Proposed raised crest El. = 781.3 ft, NGVD
 Crest length = 98 ft
 Discharge coefficient = 3.30
 Lowest crest El. of the North Embankments = 787.86 ft, NGVD

Proposed Auxillary Spillway at South Levee

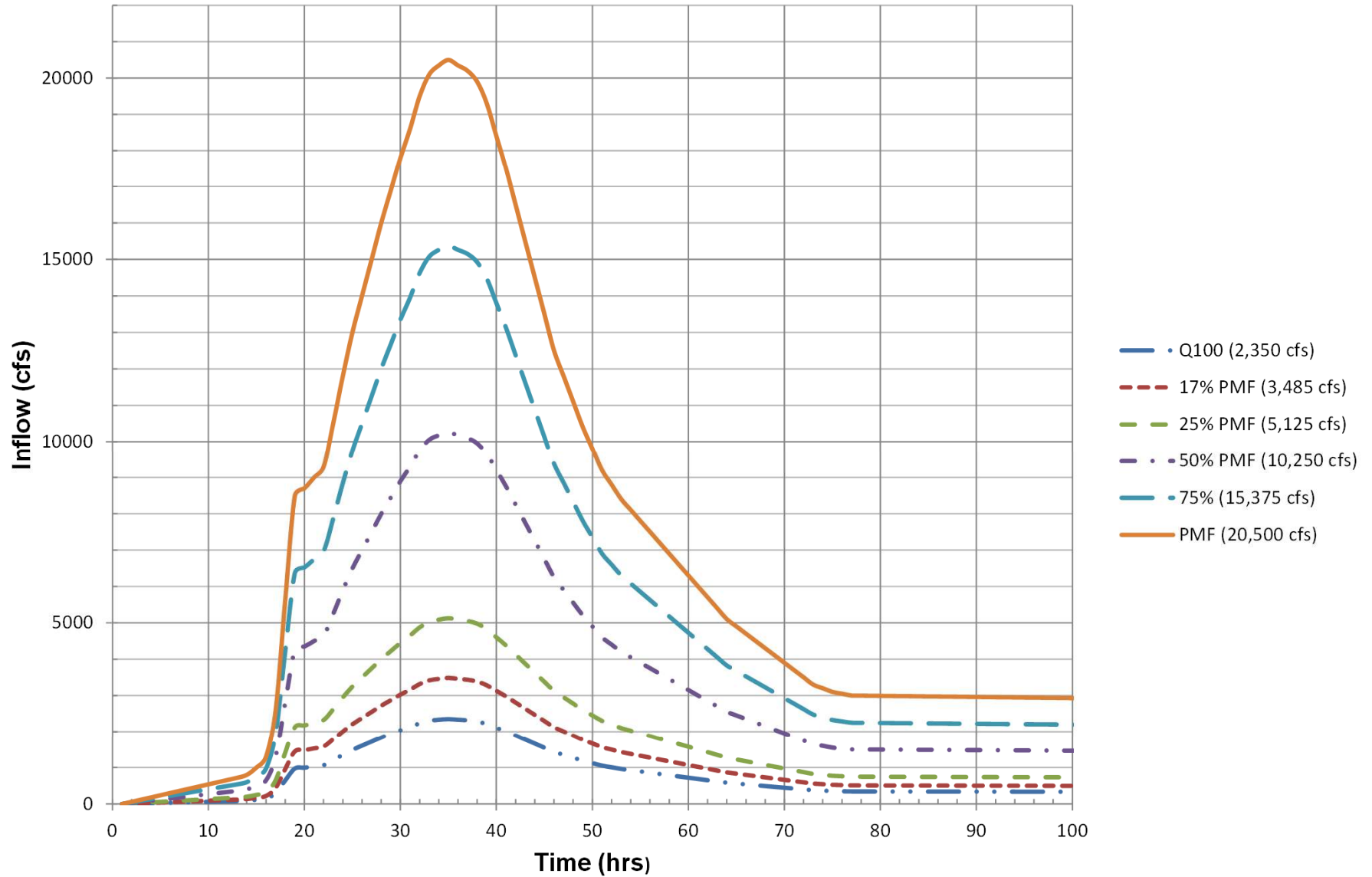
Lowered embankment El. = 783.7 ft, NGVD
 Breached bottom El. = 771.3 ft, NGVD
 Breached bottom width = 50 ft
 Lowest crest El. of South Levee = 788.95 ft, NGVD

Proposed Headwater-Discharge Rating Curve						
Reservoir El. (ft, NGVD)	Description	North Spillway		Auxillary Spillway ¹		Q _{total} (cfs)
		H (ft)	Q _{north} (cfs)	H (ft)	Q _{auxillary} (cfs)	
781.3	Normal Pool El.	0	0	10	0	0
781.5		0.2	29	10.2	0	29
782.0		0.7	189	10.7	0	189
782.5		1.2	425	11.2	0	425
783.0		1.7	717	11.7	0	717
783.5		2.2	1055	12.2	0	1055
783.7	Auxillary spillway activates	2.4	1202	12.4	6560	7762
784.0		2.7	1435	12.7	6990	8425
784.5		3.2	1851	13.2	7442	9294
785.0		3.7	2302	13.7	7939	10240
785.5		4.2	2784	14.2	8411	11195
786.0		4.7	3295	14.7	8911	12206
786.5		5.2	3835	15.2	9448	13283
787.0		5.7	4401	15.7	9970	14371
787.5		6.2	4993	16.2	10512	15505
787.8	PMF pool El.	6.5	5359	16.5	10854	16213

¹ Auxillary spillway outflows were obtained from the HEC-RAS model developed for the proposed condition

Inflow Hydrographs for IDF Analysis

Au Train Hydroelectric Project



Q100 Structure Inundation Matrix

	No significant flooding or additional hazard
	Flooding prior to breach > 4 ft
	Flooding prior to breach < 4 ft
	Incremental rise due to breach > 2 ft (for structures not flooded prior to breach)
	Incremental rise due to breach > 2 ft (for structures flooded by < 4 ft prior to breach)

Structure Information		Breach of Lowered South Levee Section at the Q100 (2,350 cfs inflow)				
Structure No. (miles d/s)	First Floor Elevation (ft, NGVD)	Water Surface Before Breach (ft, NGVD)	Flooding Before Breach (ft)	Water Surface After Breach (ft, NGVD)	Flooding After Breach (ft)	Incremental Rise on Structure (ft)
0.88	790.69	764.31	no flooding	768.3	no flooding	N/A
4.91	765.15	743.94	no flooding	747.61	no flooding	N/A
7.05	714.76	721.85	7.09	726.68	11.92	4.83
14.33	680.15	642.12	no flooding	644.54	no flooding	N/A
15.31	658.8	634.34	no flooding	636.16	no flooding	N/A
15.311	664.59	634.34	no flooding	636.16	no flooding	N/A
15.48	642.79	633.23	no flooding	634.94	no flooding	N/A
16.43	630.79	627.89	no flooding	629.69	no flooding	N/A
17.57	623.25	618.68	no flooding	621.38	no flooding	N/A
17.84	622.3	616.73	no flooding	619.8	no flooding	N/A
17.841	627.51	616.73	no flooding	619.8	no flooding	N/A
17.85	634.99	616.73	no flooding	619.8	no flooding	N/A
17.88	623.28	616.73	no flooding	619.8	no flooding	N/A
17.95	623.09	615.08	no flooding	618.38	no flooding	N/A
17.98	619.42	615.08	no flooding	618.38	no flooding	N/A
18.09	618.31	615.08	no flooding	618.38	0.07	0.07
18.18	620.76	612.61	no flooding	615.53	no flooding	N/A
18.2	619.59	612.61	no flooding	615.53	no flooding	N/A
18.24	606.91	612.61	5.7	615.53	8.62	2.92
18.29	621.61	609.78	no flooding	612.31	no flooding	N/A
18.41	615.22	609.78	no flooding	612.31	no flooding	N/A
18.42	609.02	609.78	0.76	612.31	3.29	2.53
19.7	624.44	595.16	no flooding	598.02	no flooding	N/A
20.47	604.44	590.97	no flooding	593.77	no flooding	N/A
21.43	598.64	587.56	no flooding	590.08	no flooding	N/A
21.71	594.54	586.83	no flooding	589.41	no flooding	N/A
21.85	593.06	586.13	no flooding	588.82	no flooding	N/A
21.851	589.46	586.13	no flooding	588.82	no flooding	N/A
21.9	593.81	586.13	no flooding	588.82	no flooding	N/A
21.93	597.7	585.49	no flooding	588.32	no flooding	N/A
22.39	594.88	584.09	no flooding	587.36	no flooding	N/A
22.63	589.44	582.79	no flooding	586.62	no flooding	N/A
23.29	597.57	581.36	no flooding	585.17	no flooding	N/A
23.42	591.11	581.17	no flooding	584.65	no flooding	N/A
23.8	588.04	580.86	no flooding	583.05	no flooding	N/A
23.84	586.54	580.73	no flooding	581.3	no flooding	N/A
24.46	586.27	580.75	no flooding	581.68	no flooding	N/A
24.47	588.87	580.75	no flooding	581.68	no flooding	N/A
24.471	588.06	580.75	no flooding	581.68	no flooding	N/A
25.05	596.62	580.73	no flooding	581.22	no flooding	N/A
25.06	598.06	580.73	no flooding	581.22	no flooding	N/A
25.12	584.78	580.73	no flooding	581.22	no flooding	N/A
25.15	587.26	580.73	no flooding	581.22	no flooding	N/A

17% PMF Structure Inundation Matrix

	No significant flooding or additional hazard
	Flooding prior to breach > 4 ft
	Flooding prior to breach < 4 ft
	Incremental rise due to breach > 2 ft (for structures not flooded prior to breach)
	Incremental rise due to breach > 2 ft (for structures flooded by < 4 ft prior to breach)

Structure Information		Breach of Lowered South Levee Section at the peak of 17% PMF (3,485 cfs inflow)				
Structure No. (miles d/s)	First Floor Elevation (ft, NGVD)	Water Surface Before Breach (ft, NGVD)	Flooding Before Breach (ft)	Water Surface After Breach (ft, NGVD)	Flooding After Breach (ft)	Incremental Rise on Structure (ft)
0.88	790.69	764.42	no flooding	768.47	no flooding	N/A
4.91	765.15	744.17	no flooding	747.76	no flooding	N/A
7.05	714.76	722.2	7.44	727	12.24	4.8
14.33	680.15	642.34	no flooding	644.67	no flooding	N/A
15.31	658.8	634.72	no flooding	636.27	no flooding	N/A
15.311	664.59	634.72	no flooding	636.27	no flooding	N/A
15.48	642.79	633.57	no flooding	635.06	no flooding	N/A
16.43	630.79	628.23	no flooding	629.83	no flooding	N/A
17.57	623.25	619.21	no flooding	621.58	no flooding	N/A
17.84	622.3	617.33	no flooding	620.04	no flooding	N/A
17.841	627.51	617.33	no flooding	620.04	no flooding	N/A
17.85	634.99	617.33	no flooding	620.04	no flooding	N/A
17.88	623.28	617.33	no flooding	620.04	no flooding	N/A
17.95	623.09	615.73	no flooding	618.64	no flooding	N/A
17.98	619.42	615.73	no flooding	618.64	no flooding	N/A
18.09	618.31	615.73	no flooding	618.64	0.33	0.33
18.18	620.76	613.18	no flooding	615.73	no flooding	N/A
18.2	619.59	613.18	no flooding	615.73	no flooding	N/A
18.24	606.91	613.18	6.27	615.73	8.82	2.55
18.29	621.61	610.32	no flooding	612.5	no flooding	N/A
18.41	615.22	610.32	no flooding	612.5	no flooding	N/A
18.42	609.02	610.32	1.3	612.5	3.48	2.18
19.7	624.44	595.74	no flooding	598.21	no flooding	N/A
20.47	604.44	591.53	no flooding	593.97	no flooding	N/A
21.43	598.64	588.07	no flooding	590.27	no flooding	N/A
21.71	594.54	587.34	no flooding	589.62	no flooding	N/A
21.85	593.06	586.65	no flooding	589.04	no flooding	N/A
21.851	589.46	586.65	no flooding	589.04	no flooding	N/A
21.9	593.81	586.65	no flooding	589.04	no flooding	N/A
21.93	597.7	586.02	no flooding	588.55	no flooding	N/A
22.39	594.88	584.65	no flooding	587.65	no flooding	N/A
22.63	589.44	583.48	no flooding	586.95	no flooding	N/A
23.29	597.57	581.91	no flooding	585.52	no flooding	N/A
23.42	591.11	581.62	no flooding	585	no flooding	N/A
23.8	588.04	581.06	no flooding	583.32	no flooding	N/A
23.84	586.54	580.77	no flooding	581.39	no flooding	N/A
24.46	586.27	580.82	no flooding	581.82	no flooding	N/A
24.47	588.87	580.82	no flooding	581.82	no flooding	N/A
24.471	588.06	580.82	no flooding	581.82	no flooding	N/A
25.05	596.62	580.76	no flooding	581.3	no flooding	N/A
25.06	598.06	580.76	no flooding	581.3	no flooding	N/A
25.12	584.78	580.76	no flooding	581.3	no flooding	N/A
25.15	587.26	580.76	no flooding	581.3	no flooding	N/A

25% PMF Structure Inundation Matrix

	No significant flooding or additional hazard
	Flooding prior to breach > 4 ft
	Flooding prior to breach < 4 ft
	Incremental rise due to breach > 2 ft (for structures not flooded prior to breach)
	Incremental rise due to breach > 2 ft (for structures flooded by < 4 ft prior to breach)

Structure Information		Breach of Lowered South Levee Section at the peak of 25% PMF (5,125 cfs inflow)				
Structure No. (miles d/s)	First Floor Elevation (ft, NGVD)	Water Surface Before Breach (ft, NGVD)	Flooding Before Breach (ft)	Water Surface After Breach (ft, NGVD)	Flooding After Breach (ft)	Incremental Rise on Structure (ft)
0.88	790.69	764.85	no flooding	768.69	no flooding	N/A
4.91	765.15	744.52	no flooding	747.93	no flooding	N/A
7.05	714.76	722.68	7.92	727.42	12.66	4.74
14.33	680.15	642.6	no flooding	644.85	no flooding	N/A
15.31	658.8	635.19	no flooding	636.39	no flooding	N/A
15.311	664.59	635.19	no flooding	636.39	no flooding	N/A
15.48	642.79	634.02	no flooding	635.2	no flooding	N/A
16.43	630.79	628.66	no flooding	629.99	no flooding	N/A
17.57	623.25	619.83	no flooding	621.85	no flooding	N/A
17.84	622.3	618.03	no flooding	620.33	no flooding	N/A
17.841	627.51	618.03	no flooding	620.33	no flooding	N/A
17.85	634.99	618.03	no flooding	620.33	no flooding	N/A
17.88	623.28	618.03	no flooding	620.33	no flooding	N/A
17.95	623.09	616.48	no flooding	618.93	no flooding	N/A
17.98	619.42	616.48	no flooding	618.93	no flooding	N/A
18.09	618.31	616.48	no flooding	618.93	0.62	0.62
18.18	620.76	613.89	no flooding	615.99	no flooding	N/A
18.2	619.59	613.89	no flooding	615.99	no flooding	N/A
18.24	606.91	613.89	6.98	615.99	9.08	2.1
18.29	621.61	610.9	no flooding	612.74	no flooding	N/A
18.41	615.22	610.9	no flooding	612.74	no flooding	N/A
18.42	609.02	610.9	1.88	612.74	3.72	1.84
19.7	624.44	596.39	no flooding	598.46	no flooding	N/A
20.47	604.44	592.2	no flooding	594.22	no flooding	N/A
21.43	598.64	588.68	no flooding	590.53	no flooding	N/A
21.71	594.54	587.94	no flooding	589.9	no flooding	N/A
21.85	593.06	587.3	no flooding	589.33	no flooding	N/A
21.851	589.46	587.3	no flooding	589.33	no flooding	N/A
21.9	593.81	587.3	no flooding	589.33	no flooding	N/A
21.93	597.7	586.71	no flooding	588.86	no flooding	N/A
22.39	594.88	585.38	no flooding	588.03	no flooding	N/A
22.63	589.44	584.33	no flooding	587.38	no flooding	N/A
23.29	597.57	582.73	no flooding	585.99	no flooding	N/A
23.42	591.11	582.34	no flooding	585.47	no flooding	N/A
23.8	588.04	581.43	no flooding	583.69	no flooding	N/A
23.84	586.54	580.85	no flooding	581.53	no flooding	N/A
24.46	586.27	580.95	no flooding	582.03	no flooding	N/A
24.47	588.87	580.95	no flooding	582.03	no flooding	N/A
24.471	588.06	580.95	no flooding	582.03	no flooding	N/A
25.05	596.62	580.83	no flooding	581.42	no flooding	N/A
25.06	598.06	580.83	no flooding	581.42	no flooding	N/A
25.12	584.78	580.83	no flooding	581.42	no flooding	N/A
25.15	587.26	580.83	no flooding	581.42	no flooding	N/A

50% PMF Structure Inundation Matrix

	No significant flooding or additional hazard
	Flooding prior to breach > 4 ft
	Flooding prior to breach < 4 ft
	Incremental rise due to breach > 2 ft (for structures not flooded prior to breach)
	Incremental rise due to breach > 2 ft (for structures flooded by < 4 ft prior to breach)

Structure Information		Breach of Lowered South Levee Section at the peak of 50% PMF (10,250 cfs inflow)				
Structure No. (miles d/s)	First Floor Elevation (ft, NGVD)	Water Surface Before Breach (ft, NGVD)	Flooding Before Breach (ft)	Water Surface After Breach (ft, NGVD)	Flooding After Breach (ft)	Incremental Rise on Structure (ft)
0.88	790.69	766.06	no flooding	769.36	no flooding	N/A
4.91	765.15	745.61	no flooding	748.44	no flooding	N/A
7.05	714.76	723.91	9.15	728.62	13.86	4.71
14.33	680.15	643.31	no flooding	645.34	no flooding	N/A
15.31	658.8	636.03	no flooding	636.79	no flooding	N/A
15.311	664.59	636.03	no flooding	636.79	no flooding	N/A
15.48	642.79	634.8	no flooding	635.55	no flooding	N/A
16.43	630.79	629.56	no flooding	630.48	no flooding	N/A
17.57	623.25	621.17	no flooding	622.64	no flooding	N/A
17.84	622.3	619.56	no flooding	621.21	no flooding	N/A
17.841	627.51	619.56	no flooding	621.21	no flooding	N/A
17.85	634.99	619.56	no flooding	621.21	no flooding	N/A
17.88	623.28	619.56	no flooding	621.21	no flooding	N/A
17.95	623.09	618.12	no flooding	619.85	no flooding	N/A
17.98	619.42	618.12	no flooding	619.85	0.43	0.43
18.09	618.31	618.12	no flooding	619.85	1.54	1.54
18.18	620.76	615.32	no flooding	616.77	no flooding	N/A
18.2	619.59	615.32	no flooding	616.77	no flooding	N/A
18.24	606.91	615.32	8.41	616.77	9.86	1.45
18.29	621.61	612.14	no flooding	613.38	no flooding	N/A
18.41	615.22	612.14	no flooding	613.38	no flooding	N/A
18.42	609.02	612.14	3.12	613.38	4.36	1.24
19.7	624.44	597.8	no flooding	599.22	no flooding	N/A
20.47	604.44	593.63	no flooding	594.96	no flooding	N/A
21.43	598.64	589.96	no flooding	591.31	no flooding	N/A
21.71	594.54	589.29	no flooding	590.74	no flooding	N/A
21.85	593.06	588.68	no flooding	590.23	no flooding	N/A
21.851	589.46	588.68	no flooding	590.23	0.77	0.77
21.9	593.81	588.68	no flooding	590.23	no flooding	N/A
21.93	597.7	588.17	no flooding	589.82	no flooding	N/A
22.39	594.88	587.17	no flooding	589.17	no flooding	N/A
22.63	589.44	586.4	no flooding	588.67	no flooding	N/A
23.29	597.57	584.93	no flooding	587.41	no flooding	N/A
23.42	591.11	584.41	no flooding	586.86	no flooding	N/A
23.8	588.04	582.87	no flooding	584.82	no flooding	N/A
23.84	586.54	581.24	no flooding	582	no flooding	N/A
24.46	586.27	581.58	no flooding	582.71	no flooding	N/A
24.47	588.87	581.58	no flooding	582.71	no flooding	N/A
24.471	588.06	581.58	no flooding	582.71	no flooding	N/A
25.05	596.62	581.16	no flooding	581.83	no flooding	N/A
25.06	598.06	581.16	no flooding	581.83	no flooding	N/A
25.12	584.78	581.16	no flooding	581.83	no flooding	N/A
25.15	587.26	581.16	no flooding	581.83	no flooding	N/A

75% PMF Structure Inundation Matrix

	No significant flooding or additional hazard
	Flooding prior to breach > 4 ft
	Flooding prior to breach < 4 ft
	Incremental rise due to breach > 2 ft (for structures not flooded prior to breach)
	Incremental rise due to breach > 2 ft (for structures flooded by < 4 ft prior to breach)

Structure Information		Breach of Lowered South Levee Section at the peak of 75% PMF (15,375 cfs inflow)				
Structure No. (miles d/s)	First Floor Elevation (ft, NGVD)	Water Surface Before Breach (ft, NGVD)	Flooding Before Breach (ft)	Water Surface After Breach (ft, NGVD)	Flooding After Breach (ft)	Incremental Rise on Structure (ft)
0.88	790.69	766.94	no flooding	769.93	no flooding	N/A
4.91	765.15	746.43	no flooding	748.88	no flooding	N/A
7.05	714.76	724.89	10.13	729.59	14.83	4.7
14.33	680.15	643.76	no flooding	645.77	no flooding	N/A
15.31	658.8	636.57	no flooding	637.15	no flooding	N/A
15.311	664.59	636.57	no flooding	637.15	no flooding	N/A
15.48	642.79	635.36	no flooding	635.88	no flooding	N/A
16.43	630.79	630.22	no flooding	630.89	0.1	0.1
17.57	623.25	622.21	no flooding	623.3	0.05	0.05
17.84	622.3	620.72	no flooding	621.93	no flooding	N/A
17.841	627.51	620.72	no flooding	621.93	no flooding	N/A
17.85	634.99	620.72	no flooding	621.93	no flooding	N/A
17.88	623.28	620.72	no flooding	621.93	no flooding	N/A
17.95	623.09	619.33	no flooding	620.57	no flooding	N/A
17.98	619.42	619.33	no flooding	620.57	1.15	1.15
18.09	618.31	619.33	1.02	620.57	2.26	1.24
18.18	620.76	616.36	no flooding	617.4	no flooding	N/A
18.2	619.59	616.36	no flooding	617.4	no flooding	N/A
18.24	606.91	616.36	9.45	617.4	10.49	1.04
18.29	621.61	613.04	no flooding	613.94	no flooding	N/A
18.41	615.22	613.04	no flooding	613.94	no flooding	N/A
18.42	609.02	613.04	4.02	613.94	4.92	0.9
19.7	624.44	598.81	no flooding	599.83	no flooding	N/A
20.47	604.44	594.66	no flooding	595.56	no flooding	N/A
21.43	598.64	590.99	no flooding	592.04	no flooding	N/A
21.71	594.54	590.39	no flooding	591.53	no flooding	N/A
21.85	593.06	589.84	no flooding	591.08	no flooding	N/A
21.851	589.46	589.84	0.38	591.08	1.62	1.24
21.9	593.81	589.84	no flooding	591.08	no flooding	N/A
21.93	597.7	589.4	no flooding	590.72	no flooding	N/A
22.39	594.88	588.67	no flooding	590.2	no flooding	N/A
22.63	589.44	588.11	no flooding	589.81	0.37	0.37
23.29	597.57	586.79	no flooding	588.68	no flooding	N/A
23.42	591.11	586.25	no flooding	588.15	no flooding	N/A
23.8	588.04	584.31	no flooding	585.82	no flooding	N/A
23.84	586.54	581.77	no flooding	582.48	no flooding	N/A
24.46	586.27	582.39	no flooding	583.39	no flooding	N/A
24.47	588.87	582.39	no flooding	583.39	no flooding	N/A
24.471	588.06	582.39	no flooding	583.39	no flooding	N/A
25.05	596.62	581.63	no flooding	582.26	no flooding	N/A
25.06	598.06	581.63	no flooding	582.26	no flooding	N/A
25.12	584.78	581.63	no flooding	582.26	no flooding	N/A
25.15	587.26	581.63	no flooding	582.26	no flooding	N/A

Full PMF Structure Inundation Matrix

	No significant flooding or additional hazard
	Flooding prior to breach > 4 ft
	Flooding prior to breach < 4 ft
	Incremental rise due to breach > 2 ft (for structures not flooded prior to breach)
	Incremental rise due to breach > 2 ft (for structures flooded by < 4 ft prior to breach)

Structure Information		Breach of Lowered South Levee Section at the peak of Full PMF (20,500 cfs inflow)				
Structure No. (miles d/s)	First Floor Elevation (ft, NGVD)	Water Surface Before Breach (ft, NGVD)	Flooding Before Breach (ft)	Water Surface After Breach (ft, NGVD)	Flooding After Breach (ft)	Incremental Rise on Structure (ft)
0.88	790.69	768.52	no flooding	770.5	no flooding	N/A
4.91	765.15	747.82	no flooding	749.27	no flooding	N/A
7.05	714.76	727.16	12.4	730.43	15.67	3.27
14.33	680.15	644.74	no flooding	646.16	no flooding	N/A
15.31	658.8	637.06	no flooding	637.43	no flooding	N/A
15.311	664.59	637.06	no flooding	637.43	no flooding	N/A
15.48	642.79	635.79	no flooding	636.17	no flooding	N/A
16.43	630.79	630.78	no flooding	631.23	0.44	0.44
17.57	623.25	623.11	no flooding	623.87	0.62	0.62
17.84	622.3	621.71	no flooding	622.54	0.24	0.24
17.841	627.51	621.71	no flooding	622.54	no flooding	N/A
17.85	634.99	621.71	no flooding	622.54	no flooding	N/A
17.88	623.28	621.71	no flooding	622.54	no flooding	N/A
17.95	623.09	620.36	no flooding	621.21	no flooding	N/A
17.98	619.42	620.36	0.94	621.21	1.79	0.85
18.09	618.31	620.36	2.05	621.21	2.9	0.85
18.18	620.76	617.21	no flooding	617.92	no flooding	N/A
18.2	619.59	617.21	no flooding	617.92	no flooding	N/A
18.24	606.91	617.21	10.3	617.92	11.01	0.71
18.29	621.61	613.79	no flooding	614.38	no flooding	N/A
18.41	615.22	613.79	no flooding	614.38	no flooding	N/A
18.42	609.02	613.79	4.77	614.38	5.36	0.59
19.7	624.44	599.66	no flooding	600.33	no flooding	N/A
20.47	604.44	595.53	no flooding	596.07	no flooding	N/A
21.43	598.64	591.96	no flooding	592.69	no flooding	N/A
21.71	594.54	591.43	no flooding	592.23	no flooding	N/A
21.85	593.06	590.95	no flooding	591.83	no flooding	N/A
21.851	589.46	590.95	1.49	591.83	2.37	0.88
21.9	593.81	590.95	no flooding	591.83	no flooding	N/A
21.93	597.7	590.57	no flooding	591.51	no flooding	N/A
22.39	594.88	590.03	no flooding	591.05	no flooding	N/A
22.63	589.44	589.61	0.17	590.73	1.29	1.12
23.29	597.57	588.46	no flooding	589.69	no flooding	N/A
23.42	591.11	587.93	no flooding	589.19	no flooding	N/A
23.8	588.04	585.64	no flooding	586.67	no flooding	N/A
23.84	586.54	582.38	no flooding	582.95	no flooding	N/A
24.46	586.27	583.25	no flooding	584	no flooding	N/A
24.47	588.87	583.25	no flooding	584	no flooding	N/A
24.471	588.06	583.25	no flooding	584	no flooding	N/A
25.05	596.62	582.17	no flooding	582.67	no flooding	N/A
25.06	598.06	582.17	no flooding	582.67	no flooding	N/A
25.12	584.78	582.17	no flooding	582.67	no flooding	N/A
25.15	587.26	582.17	no flooding	582.67	no flooding	N/A

Structure No. 7.05



Structure No. 18.24



Structure No. 18.42



Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 40 at:	RS	WSEL	ERROR		
24JAN2007 16:03:55 Au Train Reservo		Flowing north	197.125	753.42	
0.021					
24JAN2007 16:04:00 Au Train Reservo		Flowing north	197.01	750.15	
0.024					
24JAN2007 16:04:05 Au Train Reservo		Flowing north	197.105	753.32	
0.023					
24JAN2007 16:04:15 Au Train Reservo		Flowing north	197.105	753.32	
0.033					
24JAN2007 16:04:20 Au Train Reservo		Flowing north	197.12	753.34	
0.025					
24JAN2007 16:06:05 Au Train Reservo		Flowing north	197.105	753.32	
0.027					
24JAN2007 16:06:15 Au Train Reservo		Flowing north	197.105	753.32	
0.031					
24JAN2007 16:06:25 Au Train Reservo		Flowing north	197.105	753.32	
0.033					
24JAN2007 16:06:40 Au Train Reservo		Flowing north	196.99	745.86	
0.021					
24JAN2007 16:06:45 Au Train Reservo		Flowing north	197.01	750.76	
0.032					
24JAN2007 16:16:45 Au Train Reservo		Flowing north	196.99	745.86	
0.020					
24JAN2007 16:22:10 Au Train Reservo		Flowing north	197.11	753.52	
0.023					
24JAN2007 16:25:00 Au Train Reservo		Flowing north	197.01	752.47	
0.038					
24JAN2007 16:25:05 Au Train Reservo		Flowing north	196.99	745.86	
0.046					
24JAN2007 16:25:10 Au Train Reservo		Flowing north	197.01	747.87	
0.031					
24JAN2007 16:25:15 Au Train Reservo		Flowing north	197.11	753.32	
0.194					
24JAN2007 16:25:20 Au Train Reservo		Flowing north	197.09	756.77	
0.031					
24JAN2007 16:37:45 Au Train Reservo		Flowing north	197.125	753.84	
0.036					
24JAN2007 16:37:50 Au Train Reservo		Flowing north	197.11	753.55	
0.027					
24JAN2007 16:38:00 Au Train Reservo		Flowing north	196.99	745.86	
0.022					

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 44.88 sec

Writing to DSS 14.06 sec

Post-Processing 24.68 sec

Complete Process 1 min 23.96 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.37 sec

Unsteady Flow Computations 1 min 7.14 sec

Writing to DSS 38.16 sec

Post-Processing 2 min 17.55 sec

Complete Process 4 min 3.25 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 32.60 sec

Writing to DSS 16.10 sec

Post-Processing 2 min 13.62 sec

Complete Process 4 min 2.68 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.45 sec

Unsteady Flow Computations 1 min 2.68 sec

Writing to DSS 17.54 sec

Post-Processing 2 min 21.80 sec

Complete Process 3 min 42.54 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.33 sec

Unsteady Flow Computations 1 min 3.74 sec

Writing to DSS 15.30 sec

Post-Processing 2 min 21.01 sec

Complete Process 3 min 40.43 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 40 at:		RS	WSEL	ERROR		
24JAN2007 18:27:30	Au Train Reservo		Flowing north	197.105		754.78
0.037						
24JAN2007 18:27:36	Au Train Reservo		Flowing north	196.99		745.86
0.021						
Solution solver went unstable, iteration 29 at 24JAN2007 19:03:39						
Au Train Reservo	Flowing north	197.09		753.65	0.069	
25JAN2007 06:11:21	Au Train Reservo		Flowing south	99.74		781.56
0.028						
25JAN2007 06:25:06	Au Train Reservo		Johnson&Slapneck	100.36		787.45
0.023						
25JAN2007 06:28:21	Au Train Reservo		Flowing south	98.8650*		781.29
0.022						
25JAN2007 06:31:54	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.022						
25JAN2007 06:31:57	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.026						
25JAN2007 06:32:00	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.026						
25JAN2007 06:32:03	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.026						
25JAN2007 06:32:06	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.026						
25JAN2007 06:32:15	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.023						
25JAN2007 06:32:18	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.023						
25JAN2007 06:32:21	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.024						
25JAN2007 06:32:24	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.024						
25JAN2007 06:32:27	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:30	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:33	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:36	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:39	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:42	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:45	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						
25JAN2007 06:32:48	Au Train Reservo		Johnson&Slapneck	100.36		787.42
0.025						

25JAN2007 06:32:51 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:32:54 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:32:57 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:00 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:03 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:06 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:09 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:12 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:15 0.023	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:18 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:21 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:24 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:27 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:30 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:33 0.024	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:36 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:39 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:42 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:45 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:48 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:51 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:54 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:33:57 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:34:00 0.025	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:34:03 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:34:06 0.024	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:34:09 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42
25JAN2007 06:34:12 0.026	Au Train Reservo	Johnson&Slapneck	100.36	787.42

25JAN2007 06:34:15	Au Train Reservo	Johnson&Slapneck	100.36	787.42
0.026				
25JAN2007 06:34:18	Au Train Reservo	Johnson&Slapneck	100.36	787.42
0.025				
25JAN2007 06:39:06	Au Train Reservo	Flowing south	99.74	777.89
0.068				
Solution solver went unstable, iteration 9 at 25JAN2007 06:39:09				
Au Train Reservo	Flowing north	197.125	754.56	0.330
25JAN2007 06:39:12	Au Train Reservo	Flowing south	99.74	779.43
0.043				
25JAN2007 06:39:24	Au Train Reservo	Flowing north	198.83	781.48
0.057				

The maximum water surface error was 0.330
and occurred at 25JAN2007 06:39:09

Finished Unsteady Flow Simulation

Writing Results to DSS
Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time
Preprocessing Geometry 0.38 sec
Unsteady Flow Computations 1 min 6.39 sec
Writing to DSS 52.82 sec
Post-Processing 2 min 16.30 sec
Complete Process 4 min 15.94 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 20 at:	RS	WSEL	ERROR		
24JAN2007 16:11:36	Au Train Reservo	Flowing north	197.01	750.34	
0.017					
24JAN2007 16:18:30	Au Train Reservo	Flowing north	196.99	745.86	
0.020					

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 1 min 1.89 sec

Writing to DSS 8.89 sec

Post-Processing 1 min 55.75 sec

Complete Process 3 min 6.84 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.31 sec

Unsteady Flow Computations 1 min 6.44 sec

Writing to DSS 12.61 sec

Post-Processing 2 min 18.78 sec

Complete Process 3 min 38.18 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 20 at:	RS	WSEL	ERROR	
24JAN2007 16:07:10 Au Train Reservo		Flowing north	197.09	753.39
0.023				

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.34 sec

Unsteady Flow Computations 29.72 sec

Writing to DSS 29.31 sec

Post-Processing 38.38 sec

Complete Process 1 min 37.80 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.31 sec

Unsteady Flow Computations 1 min 3.88 sec

Writing to DSS 1 min 2.42 sec

Post-Processing 2 min 25.69 sec

Complete Process 4 min 32.35 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.33 sec

Unsteady Flow Computations 1 min 6.86 sec

Writing to DSS 1 min 5.30 sec

Post-Processing 2 min 22.30 sec

Complete Process 4 min 34.84 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 1 min 2.43 sec

Writing to DSS 1 min 5.02 sec

Post-Processing 2 min 26.31 sec

Complete Process 4 min 34.09 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 4.12 sec

Writing to DSS 16.66 sec

Post-Processing 2 min 17.69 sec

Complete Process 3 min 38.81 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 3.21 sec

Writing to DSS 1 min 6.25 sec

Post-Processing 2 min 25.22 sec

Complete Process 4 min 35.03 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 4.79 sec

Writing to DSS 29.50 sec

Post-Processing 2 min 22.83 sec

Complete Process 3 min 57.47 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.31 sec

Unsteady Flow Computations 1 min 4.88 sec

Writing to DSS 13.96 sec

Post-Processing 2 min 26.72 sec

Complete Process 3 min 45.92 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.31 sec

Unsteady Flow Computations 1 min 9.81 sec

Writing to DSS 14.16 sec

Post-Processing 2 min 24.16 sec

Complete Process 3 min 48.51 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 40 at:	RS	WSEL	ERROR		
24JAN2007 16:18:44	Au Train Reservo	Flowing north	197.12	753.84	0.044
24JAN2007 16:18:46	Au Train Reservo	Flowing north	196.99	745.86	0.020
24JAN2007 16:26:00	Au Train Reservo	Flowing north	197.01	752.89	0.031

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 1 min 10.29 sec

Writing to DSS 13.92 sec

Post-Processing 1 min 37.88 sec

Complete Process 3 min 2.40 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 13.13 sec

Writing to DSS 19.80 sec

Post-Processing 25.04 sec

Complete Process 1 min 58.31 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.31 sec

Unsteady Flow Computations 1 min 16.24 sec

Writing to DSS 21.75 sec

Post-Processing 30.90 sec

Complete Process 2 min 9.25 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 14.32 sec

Writing to DSS 30.89 sec

Post-Processing 30.31 sec

Complete Process 2 min 15.86 sec

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Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 40 at:	RS	WSEL	ERROR	
24JAN2007 16:47:48 Au Train Reservo		Flowing north	197.125	753.46
0.030				

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 1 min 17.32 sec

Writing to DSS 1 min 34.01 sec

Post-Processing 25.79 sec

Complete Process 3 min 17.45 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Maximum iterations of 40 at:	RS	WSEL	ERROR	
27JAN2007 21:29:54 Au Train Reservo		Flowing north	196.99	745.86
0.023				

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 1 min 16.27 sec

Writing to DSS 20.76 sec

Post-Processing 24.79 sec

Complete Process 2 min 2.13 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 1.75 sec

Unsteady Flow Computations 1 min 10.61 sec

Writing to DSS 1 min 47.94 sec

Post-Processing 34.59 sec

Complete Process 3 min 34.91 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 7.29 sec

Unsteady Flow Computations 2 min 19.40 sec

Writing to DSS 22.46 sec

Post-Processing 18.94 sec

Complete Process 3 min 8.12 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.41 sec

Unsteady Flow Computations 1 min 43.09 sec

Writing to DSS 1 min 4.77 sec

Post-Processing 31.39 sec

Complete Process 3 min 19.68 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 29.16 sec

Writing to DSS 1 min 5.60 sec

Post-Processing 26.01 sec

Complete Process 3 min 1.10 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

3 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.30 sec

Unsteady Flow Computations 1 min 4.04 sec

Writing to DSS 25.43 sec

Post-Processing 29.49 sec

Complete Process 1 min 59.29 sec

Geometric Preprocessor Version 4.1.0 Jan 2010

1 Internal Boundary curve(s) have been read in and will not be recalculated

Finished Processing Geometry

Performing Unsteady Flow Simulation Version 4.1.0 Jan 2010

Finished Unsteady Flow Simulation

Writing Results to DSS

Finished Writing Results to DSS

Reading Data for Post Process

Running Post Processor Version 4.1.0 Jan 2010

Finished Post Processing

Task Time

Preprocessing Geometry 0.28 sec

Unsteady Flow Computations 3 min 36.62 sec

Writing to DSS 42.76 sec

Post-Processing 21.76 sec

Complete Process 4 min 41.47 sec

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