

AVERAGE END AREA METHOD WAS USED TO CALCULATE THE CAUSEWAY VOLUME AND AN ADDITIONAL 40% WAS USED TO ALLOW FOR MUD LOSS, USE 4350 CY.

EARTH EXCAVATION WORKSHEET

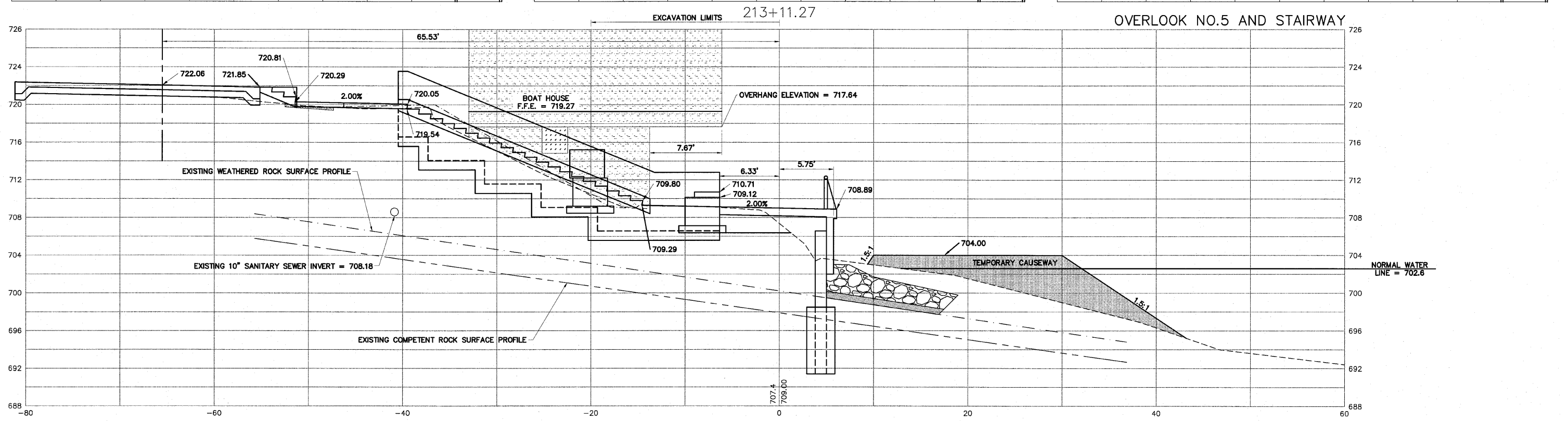
Station	Distance Between Stations (ft.)	Cut End Area (s.f.)	Cut Average End Area (s.f.)	Cut Volume (c.y.)	Cumulative Cut Volume (c.y.)	Fill End Area (s.f.)	Fill Average End Area (s.f.)	Fill Volume (c.y.)	Cumulative Fill Volume (c.y.)	Cumulative C&F Volume (c.y.)
200+04		0				0				
200+50	46	56	28	48	48	0	0	0	0	48
201+00	50	55	56	103	150	0	0	0	0	150
201+50	50	60	58	106	257	0	0	0	0	257
202+00	50	57	59	108	365	0	0	0	0	365
202+50	50	29	43	80	445	1	7	1	1	444
202+64	14	51	40	20	465	0	7	0	1	464
203+00	36	25	38	51	516	12	6	8	9	507
203+25	25	56	41	38	554	29	21	19	28	526
203+50	25	96	76	70	624	0	15	13	42	582
203+64	14	111	104	53	677	0	0	0	42	636
204+00	36	115	113	151	829	0	0	0	42	787
204+50	50	121	118	219	1047	0	0	0	42	1005
205+00	50	136	129	238	1285	0	0	0	42	1243
205+50	50	119	128	236	1521	0	0	0	42	1479
205+74	24	198	159	139	1660	2	7	1	43	1617
206+00	26	164	181	177	1837	0	7	1	44	1793
206+50	50	124	144	267	2103	28	14	26	69	2034
206+90	40	125	125	184	2288	28	28	41	111	2177
207+00	10	139	132	49	2337	22	25	9	120	2216
207+50	50	149	144	267	2603	1	12	21	141	2462
207+58	8	162	156	49	2652	2	2	0	142	2510
208+00	42	210	186	286	2938	17	10	15	157	2782
208+18	18	198	204	134	3072	4	11	7	163	2908
208+50	32	119	159	190	3262	4	4	5	168	3093
209+00	50	123	121	224	3486	6	5	9	178	3308
209+48	48	121	122	218	3704	4	5	9	186	3517
209+68	20	123	122	90	3794	4	4	3	189	3604
210+00	32	60	92	108	3901	3	4	4	194	3708
210+17	17	34	47	30	3931	6	5	3	196	3735
210+50	33	1	18	21	3952	10	8	10	206	3746
210+79	29	3	2	2	3955	90	50	53	260	3695
211+00	21	2	3	2	3957	28	59	46	306	3651
211+34	34	1	2	2	3958	77	53	66	372	3587
211+50	16	0	1	0	3959	52	65	38	410	3549
212+00	50	0	0	0	3959	162	107	198	608	3350
212+11	11	0	0	0	3959	96	129	52	660	3299
212+50	39	37	19	27	3986	24	60	87	747	3239
212+71	21	44	41	32	4018	24	24	19	766	3252
213+00	29	41	49	51	4069	5	17	18	784	3285
213+11	11	66	81	34	4103	38	19	8	792	3311
213+50	39	0	33	47	4150	0	0	0	792	3358

FURNISHED EXCAVATION WORKSHEET

Station	Distance Between Stations (ft.)	Cut End Area (s.f.)	Cut Average End Area (s.f.)	Cut Volume (c.y.)	Cumulative Cut Volume (c.y.)	Fill End Area (s.f.)	Fill Average End Area (s.f.)	Fill Volume (c.y.)	Cumulative Fill Volume (c.y.)	Cumulative C&F Volume (c.y.)
200+04		0				0				
200+50	46	0	0	0	0	0	0	0	0	0
201+00	50	0	0	0	0	0	0	0	0	0
201+50	50	0	0	0	0	0	0	0	0	0
202+00	50	0	0	0	0	0	0	0	0	0
202+50	50	0	0	0	0	0	0	0	0	0
202+64	14	0	0	0	0	0	0	0	0	0
203+00	36	0	0	0	0	0	0	0	0	0
203+25	25	0	0	0	0	0	0	0	0	0
203+50	25	0	0	0	0	0	0	0	0	0
203+64	14	0	0	0	0	0	0	0	0	0
204+00	36	0	0	0	0	0	0	0	0	0
204+50	50	0	0	0	0	0	0	0	0	0
205+00	50	0	0	0	0	0	0	0	0	0
205+50	50	0	0	0	0	0	0	0	0	0
205+74	24	0	0	0	0	0	0	0	0	0
206+00	26	0	0	0	0	18	9	9	9	9
206+50	50	0	0	0	0	69	44	81	89	89
206+90	40	0	0	0	0	60	65	96	185	185
207+00	10	0	0	0	0	41	51	19	204	204
207+50	50	0	0	0	0	23	32	59	263	263
207+58	8	0	0	0	0	23	23	7	270	270
208+00	42	0	0	0	0	68	46	70	340	340
208+18	18	0	0	0	0	0	34	22	362	362
208+50	32	0	0	0	0	0	0	0	362	362
209+00	50	0	0	0	0	0	0	0	362	362
209+48	48	0	0	0	0	0	0	0	362	362
209+68	20	0	0	0	0	0	0	0	362	362
210+00	32	0	0	0	0	0	0	0	362	362
210+17	17	0	0	0	0	0	0	0	362	362
210+50	33	0	0	0	0	0	0	0	362	362
210+79	29	0	0	0	0	0	0	0	362	362
211+00	21	0	0	0	0	0	0	0	362	362
211+34	34	0	0	0	0	0	0	0	362	362
211+50	16	0	0	0	0	0	0	0	362	362
212+00	50	0	0	0	0	0	0	0	362	362
212+11	11	0	0	0	0	0	0	0	362	362
212+50	39	0	0	0	0	0	0	0	362	362
212+71	21	0	0	0	0	0	0	0	362	362
213+00	29	0	0	0	0	0	0	0	362	362
213+11	11	0	0	0	0	0	0	0	362	362
213+50	39	0	0	0	0	0	0	0	362	362

GRANULAR EMBANKMENT (SPECIAL) WORKSHEET

Station	Distance Between Stations (ft.)	Cut End Area (s.f.)	Cut Average End Area (s.f.)	Cut Volume (c.y.)	Cumulative Cut Volume (c.y.)	Fill End Area (s.f.)	Fill Average End Area (s.f.)	Fill Volume (c.y.)	Cumulative Fill Volume (c.y.)	Cumulative C&F Volume (c.y.)
200+04		0				0				
200+50	46	0	0	0	0	0	0	0	0	0
201+00	50	0	0	0	0	0	0	0	0	0
201+50	50	0	0	0	0	0	0	0	0	0
202+00	50	0	0	0	0	0	0	0	0	0
202+50	50	0	0	0	0	0	0	0	0	0
202+64	14	0	0	0	0	0	0	0	0	0
203+00	36	0	0	0	0	0	0	0	0	0
203+25	25	0	0	0	0	0	0	0	0	0
203+50	25	0	0	0	0	0	0	0	0	0
203+64	14	0	0	0	0	0	0	0	0	0
204+00	36	0	0	0	0	0	0	0	0	0
204+50	50	0	0	0	0	0	0	0	0	0
205+00	50	0	0	0	0	0	0	0	0	0
205+50	50	0	0	0	0	0	0	0	0	0
205+74	24	0	0	0	0	0	0	0	0	0
206+00	26	0	0	0	0	11	6	5	5	5
206+50	50	0	0	0	0	29	20	37	42	42
206+90	40	0	0	0	0	41	35	52	94	94
207+00	10	0	0	0	0	46	44	16	110	110
207+50	50	0	0	0	0	34	40	74	184	184
207+58	8	0	0	0	0	39	37	11	196	196
208+00	42	0	0	0	0	55	47	72	268	268
208+18	18	0	0	0	0	0	28	18	286	286
208+50	32	0	0	0	0	28	14	17	303	303
209+00	50	0	0	0	0	28	28	52	355	355
209+48	48	0	0	0	0	26	27	48	403	403
209+68	20	0	0	0	0	28	27	20	423	423
210+00	32	0	0	0	0	23	26	30	453	453
210+17	17	0	0	0	0	14	19	12	465	465
210+50	33	0	0	0	0	0	7	9	473	473
210+79	29	0	0	0	0	0	0	0	473	473
211+00	21	0	0	0	0	0	0	0	473	473
211+34	34	0	0	0	0	0	0	0	473	473
211+50	16	0	0	0	0	0	0	0	473	473
212+00	50	0	0	0	0	0	0	0	473	473
212+11	11	0	0	0	0	0	0	0	473	473
212+50	39	0	0	0	0	25	13	18	491	491
212+71	21	0	0	0	0	30	28	22	513	513
213+00	29	0	0	0	0	9	5	5	518	518
213+11	11	0	0	0	0	7	4	1	519	519
213+50	39	0	0	0	0	0	0	0	519	519



SHEET REVIEW AGENCY: _____ DATE: _____		REVISIONS NO. ITEM DATE		SCALE: Hor. 1"=5' Ver. 1"=5' DRAWN BY: MS CHECKED BY: JMH DATE: AUGUST 13, 2010	 7282 Argus Drive Rockford, Illinois 61107-5837 (815) 398-2332 FAX (815) 398-2496 Design Firm License: Illinois 184-000816 Copyright 2010 By McClure Engineering Associates, Inc.	CROSS SECTIONS - 213+11.27 RIVERWALK MUSEUM CAMPUS 711 NORTH MAIN STREET ROCKFORD, IL FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG JOB:04-28-10-008		SHEET NO. 126 OF 148
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H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 213+11.27, 9/11/2010 2:40:41 PM, L.L. MOYNT