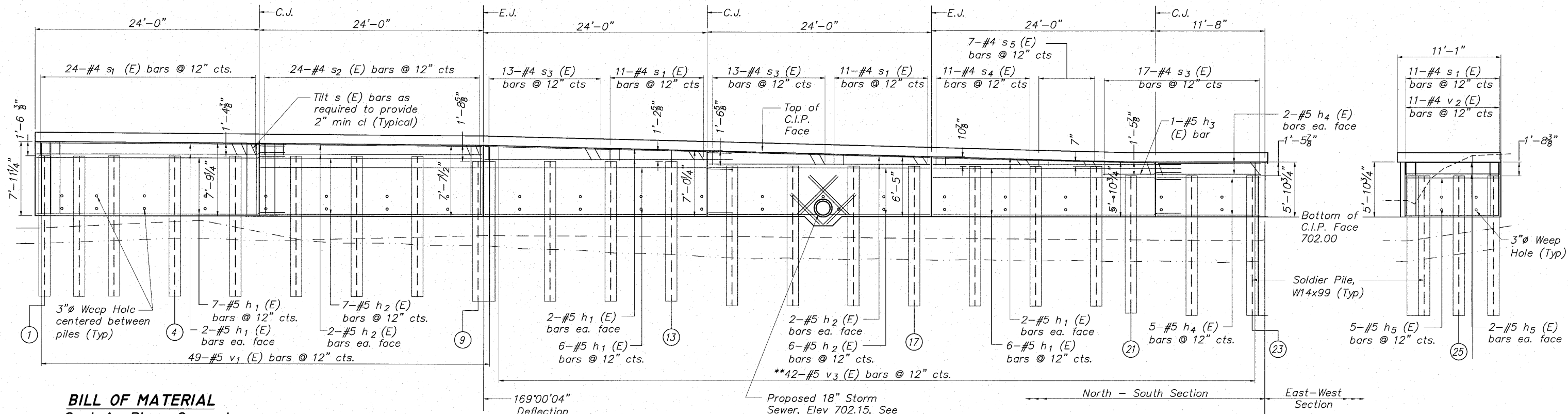


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BILL OF MATERIAL
Cast-in-Place Concrete

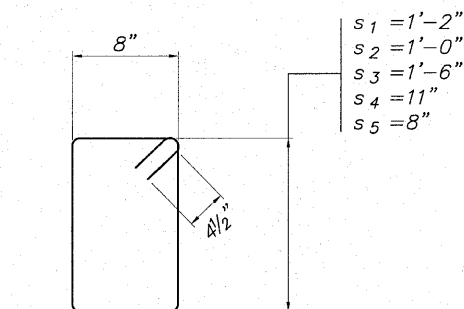
Bar	No.	Size	Length	Shape
h1 (E)	31	#5	26'-5"	—
h2 (E)	21	#5	23'-8"	—
h3 (E)	1	#5	8'-3"	—
h4 (E)	9	#5	11'-1"	—
h5 (E)	9	#5	10'-1"	—
h6 (E)	8	#5	6'-0"	—
h7 (E)	10	#5	6'-6"	┘
v1 (E)	49	#5	7'-6"	—
v2 (E)	11	#5	5'-8"	—
**v3 (E)	42	#5	12'-11"	—
s1 (E)	57	#4	4'-5"	┘
s2 (E)	24	#4	4'-1"	┘
s3 (E)	43	#4	5'-1"	┘
s4 (E)	11	#4	3'-11"	┘
s5 (E)	7	#4	3'-5"	┘
Concrete Structures	Cu. Yd.		32.2	
Reinforcement Bars (Epoxy Coated)	Pound		3,135	
Form Liner Textured Surface	Sq. Ft.		973	

**Order bars full length, field cut bars and use remaining bars at opposite end.

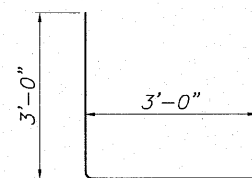
ELEVATION (Showing C.I.P. Facing Reinforcement)
North-South Section
(Looking @ Front Face of Wall)

MINIMUM BAR LAP

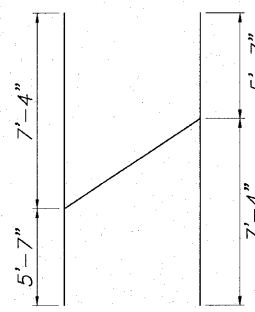
No. 4 bars 1'-8"
No. 5 bars 2'-2"
No. 6 bars 2'-7"



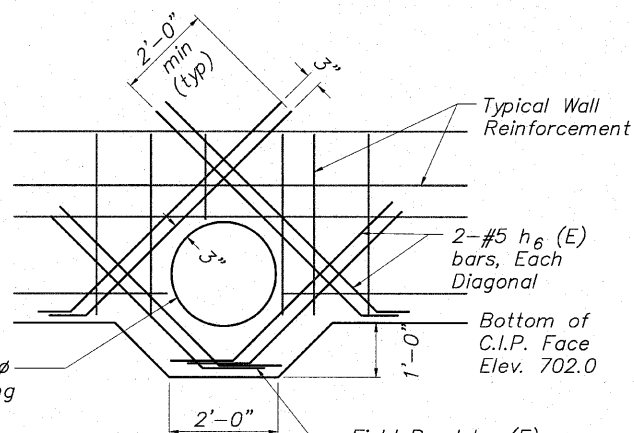
BAR s (E)



BAR h7 (E)



BAR v3 CUT DIAGRAM



Move horizontal and vertical wall reinforcement up to one half their bar spacing to miss wall opening

WALL PENETRATION DETAIL

**Order bars full length, field cut bars and use remaining bars at opposite end.

ELEVATION (Showing C.I.P. Facing Reinforcement)
East-West Section
(Looking @ Front Face of Wall)

BORING NUMBER	STATION	OFFSET	GROUND ELEV.	EST. COMP. ROCK ELEV.
B-1	205+62	20.1' LT	728	N/A
B-2	206+69	44.3' LT	728	N/A
B-3	207+60	36.1' LT	728	701.5
B-4	208+20	43.1' RT	695	693.5
B-5	209+64	59.9' RT	693	691.0
B-6	210+83	40.15' RT	696	693.0
B-7	212+10	37.74' RT	696	694.5
B-8	213+71	34.17' RT	698	691.5
B-9	211+98	31.8' LT	716	706.0
B-10	211+67	77.9' LT	720	710.0
B-11	212+57	61.6' LT	721	705.0
B-12	211+12	200.5' LT	736	714.0
B-13	212+13	155.2' LT	730	709.0
B-14	209+57	39.5' LT	730	705.0
B-15	208+63	54.3' LT	730	700.0

SP WALL No. 24 DETAILS
CAST-IN-PLACE CONCRETE ELEVATION
PEDESTRIAN RIVERWALK
ALONG THE ROCK RIVER
WINNEBAGO COUNTY
SECTION NO. 06-00543-00-BT
STATION 211+87.04 TO
STATION 213+18.55

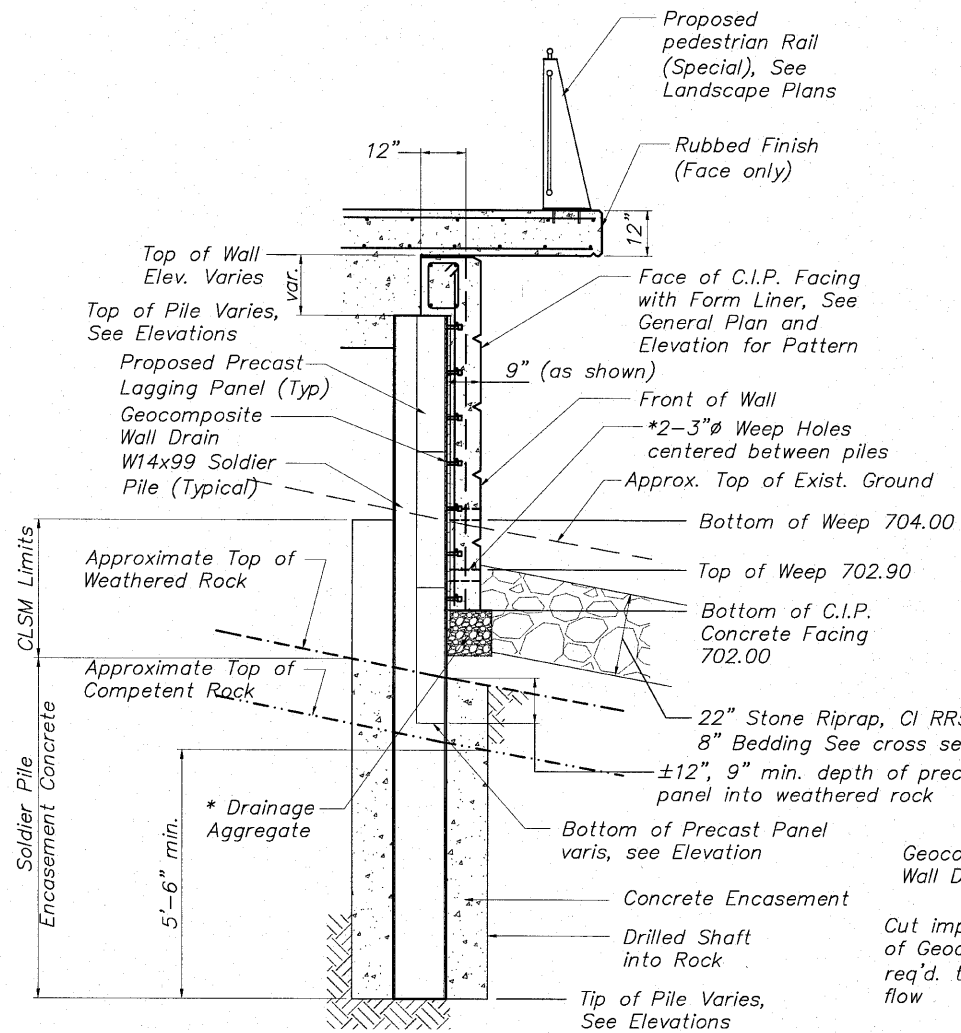
DESIGNED	GTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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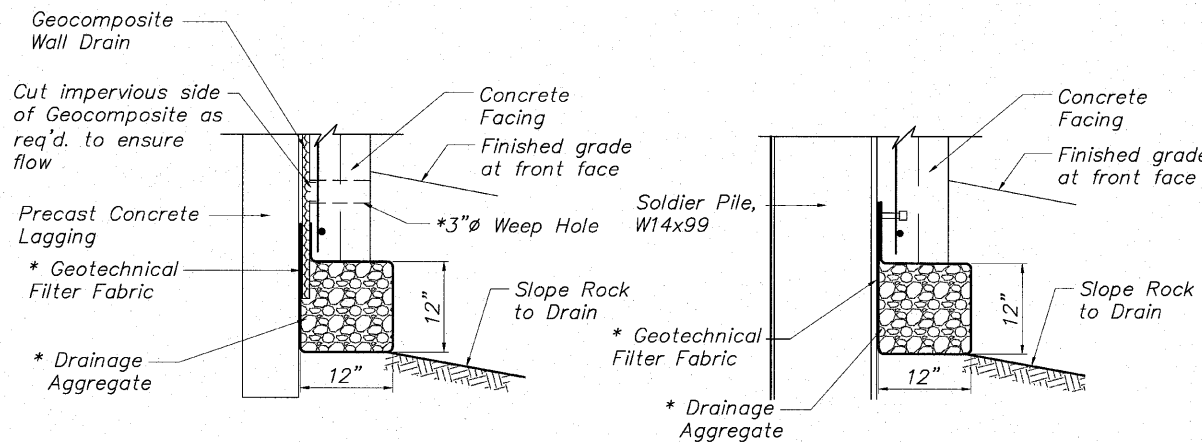
SHEET NO. 3
7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	101
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	85521	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



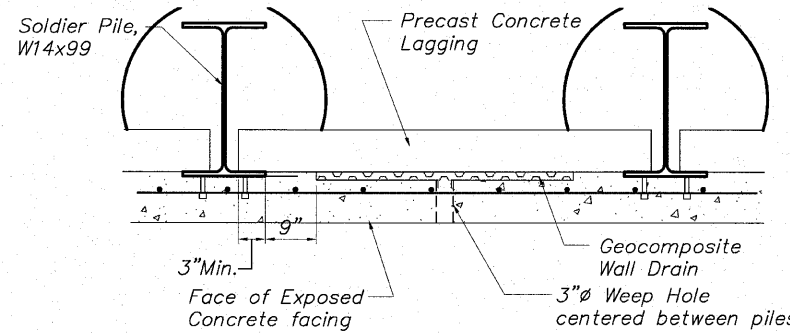
TYPICAL WALL SECTION
Showing Reinforcement



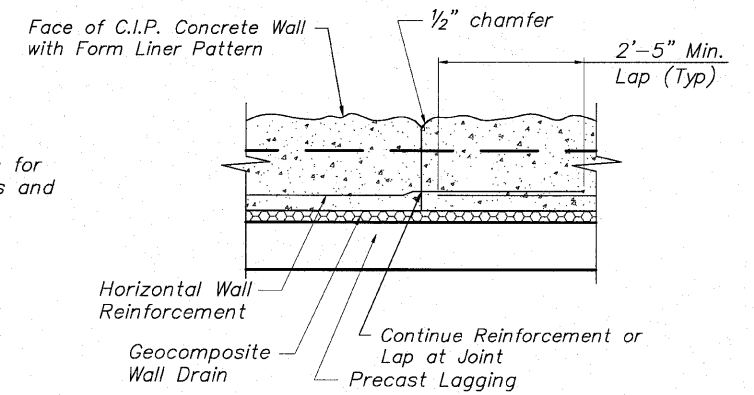
TYPICAL WALL SECTION
Showing Reinforcement

BETWEEN SOLDIER PILES * Included in the cost for Concrete Structures **AT SOLDIER PILES**

DRAINAGE AGGREGATE DETAIL

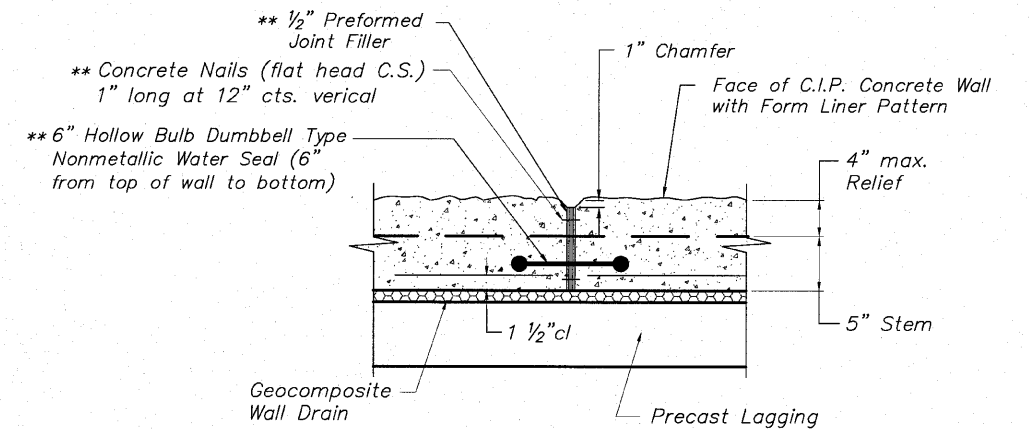


GEOCOMPOSITE WALL DRAIN DETAIL



PLAN VIEW

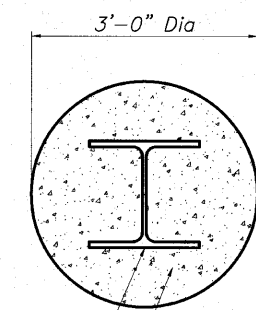
TYPICAL CONSTRUCTION JOINT DETAIL
NO SCALE



PLAN VIEW

Space Expansion Joints as Shown on Elevation
** Cost included with Concrete Structures

TYPICAL EXPANSION JOINT DETAIL
NO SCALE



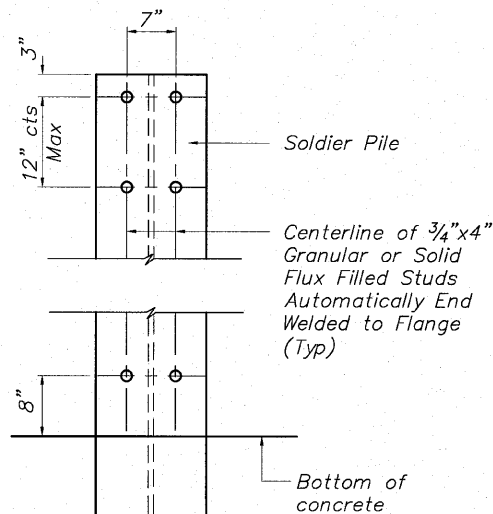
TYPICAL PILE ENCASEMENT SECTION
NO SCALE

MINIMUM BAR LAP

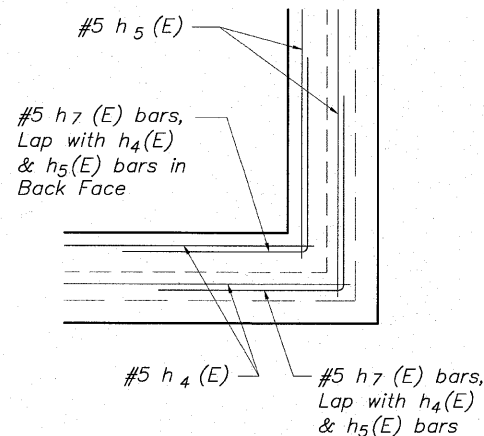
No. 4 bars	1'-8"
No. 5 bars	2'-2"
No. 6 bars	2'-7"

SP WALL No. 24 DETAILS
PEDESTRIAN RIVERWALK
ALONG THE ROCK RIVER
WINNEBAGO COUNTY
SECTION NO. 06-00543-00-BT
STATION 211+87.04 TO
STATION 213+18.55

STUD SHEAR CONNECTOR LAYOUT



CORNER DETAIL



DESIGNED	JWH
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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SHEET NO. 4

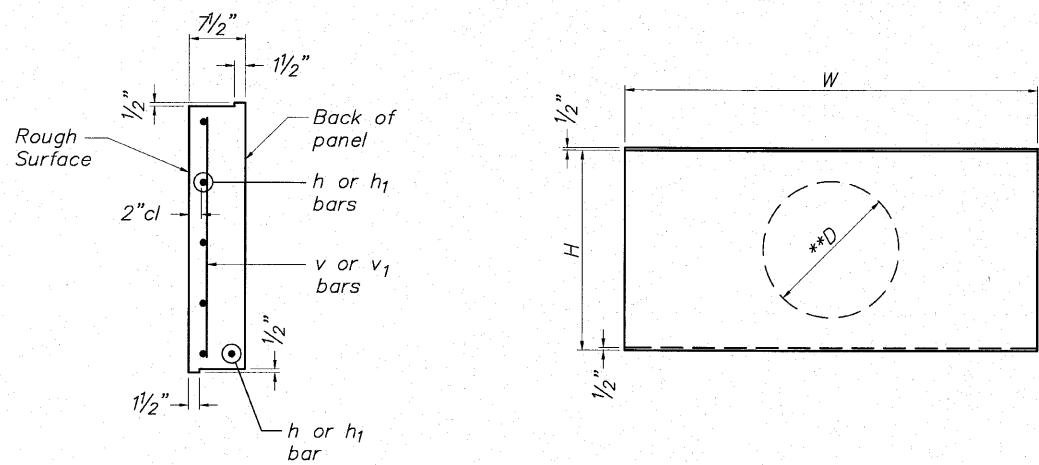
7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	102
CONTRACT NO.		85521		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SOLDIER PILE INFORMATION CHART

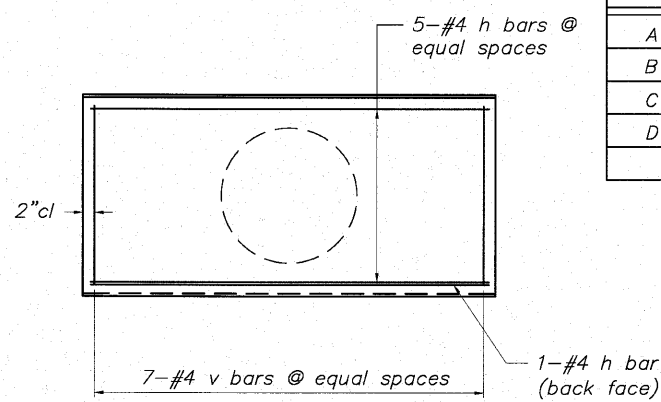
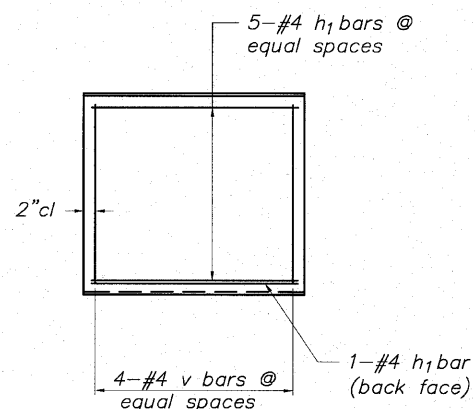
Reference Point	Station	Offset to ϕ of Hole	Offset to Center Front Flange of Pile	Pile Section	Top of Pile	Bottom of Pile	Finished Pile Length	Furnished Pile Length	No. Stud Shear Connectors
1	211+87.84	6.45' Rt.	7.05' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
2	211+91.57	6.28' Rt.	6.87' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
3	211+95.30	6.11' Rt.	6.70' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
4	212+01.80	5.81' Rt.	6.40' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
5	212+08.29	5.51' Rt.	6.10' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
6	212+14.78	5.21' Rt.	5.80' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
7	212+21.28	4.91' Rt.	5.50' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
8	212+27.77	4.61' Rt.	5.20' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
9	212+34.26	4.31' Rt.	4.90' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
10	212+35.59	4.37' Rt.	4.96' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
11	212+42.73	4.41' Rt.	5.00' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
12	212+49.23	4.41' Rt.	5.00' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
13	212+55.73	4.41' Rt.	5.00' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
14	212+62.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
15	212+68.73	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
16	212+75.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
17	212+81.73	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
18	212+88.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
19	212+94.73	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
20	213+01.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
21	213+04.94	4.41' Rt.	5.00' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
22	213+11.44	4.41' Rt.	5.00' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
23	213+17.94	4.41' Rt.	5.00' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
24	213+17.96	3.21' Rt.	3.21' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
25	213+17.96	0.50' Lt.	0.50' Lt.	W14x99	706.40	691.40	15.00'	16.00'	8
26	213+17.96	4.21' Lt.	4.21' Lt.	W14x99	706.40	691.40	15.00'	16.00'	8
Totals							390 Ft.	416 Ft.	264 Ea.

** Precast Manufacturer shall supply one(1) "A" panel with D=24" opening for 18" storm sewer as shown. Panel shall be constructed in accordance with ACI Standard opening/penetration detailing and shall be paid for as a typical "A" panel. Contractor is also advised to refer to Seepage Collar in the Special Provisions



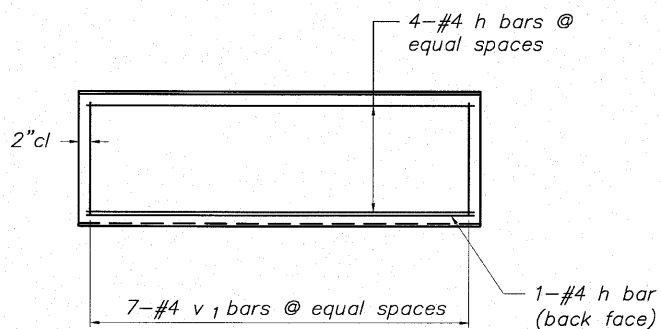
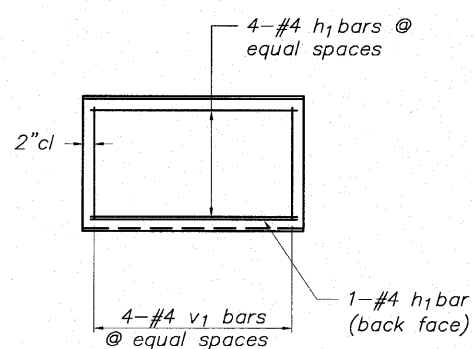
PANEL SCHEDULE

PANEL	H	W
A	2'-11 3/4"	6'-0"
B	1'-11 3/4"	6'-0"
C	2'-11 3/4"	3'-3"
D	1'-11 3/4"	3'-3"



PANEL C REINFORCEMENT

PANEL A REINFORCEMENT



PANEL D REINFORCEMENT

PANEL B REINFORCEMENT

***BILL OF MATERIAL**

ONE PANEL A

Bar	No.	Size	Length	Shape
h	6	#4	5'-8"	—
v	7	#4	2'-8"	—
Concrete Structures			Cu. Yd.	0.41
Reinforcement Bars			Pound	35.2
Panel Area			Sq. Ft.	17.87

***BILL OF MATERIAL**

ONE PANEL B

Bar	No.	Size	Length	Shape
h	5	#4	5'-8"	—
v ₁	7	#4	1'-8"	—
Concrete Structures			Cu. Yd.	0.27
Reinforcement Bars			Pound	26.7
Panel Area			Sq. Ft.	11.87

***BILL OF MATERIAL**

ONE PANEL C

Bar	No.	Size	Length	Shape
h ₁	6	#4	2'-11"	—
v	4	#4	2'-8"	—
Concrete Structures			Cu. Yd.	0.22
Reinforcement Bars			Pound	18.8
Panel Area			Sq. Ft.	9.68

***BILL OF MATERIAL**

ONE PANEL D

Bar	No.	Size	Length	Shape
h ₁	5	#4	2'-11"	—
v ₁	4	#4	1'-8"	—
Concrete Structures			Cu. Yd.	0.15
Reinforcement Bars			Pound	14.2
Panel Area			Sq. Ft.	6.43

NOTES:

1. Precast Concrete Lagging shall be labeled "front" (river side) or "back" (embankment side) at the time of casting by the manufacturer.
2. Precast Panels shall meet the requirements of Section 1042 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Concrete Lagging.
3. Contractor to backfill wall as precast panels are installed or provide blocking detail to Engineer for approval at no additional cost to the contract.

**PRECAST CONCRETE LAGGING
PANEL DETAILS**

**SP WALL No. 24 DETAILS
PANEL DETAILS & PILE INFORMATION
PEDESTRIAN RIVERWALK
ALONG THE ROCK RIVER
WINNEBAGO COUNTY
SECTION NO. 06-00543-00-BT
STATION 211+87.04 TO
STATION 213+18.55**

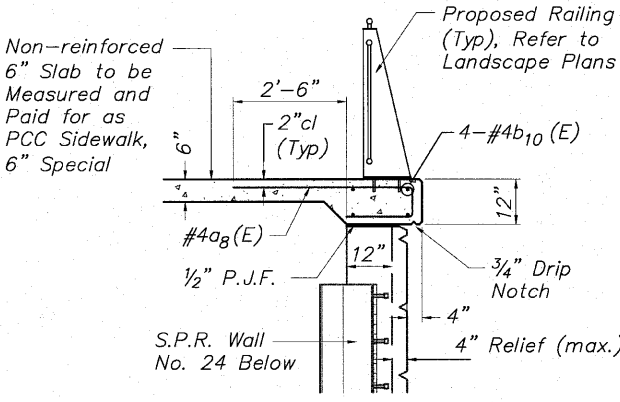
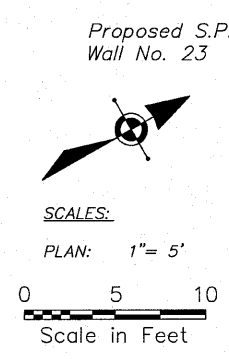
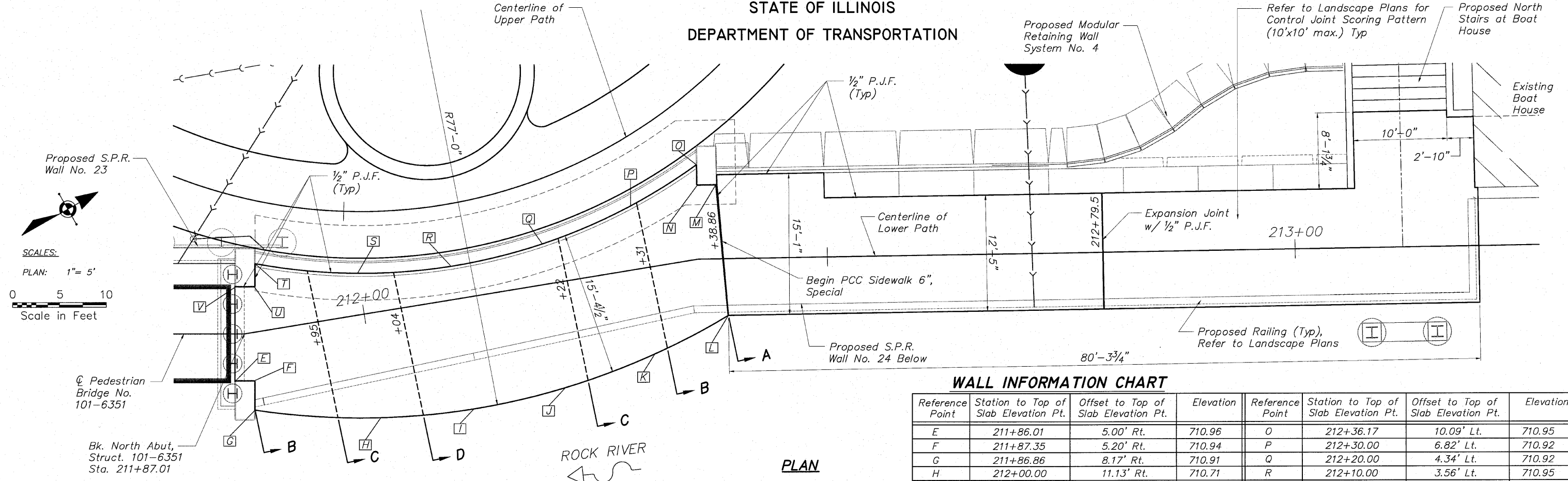
DESIGNED	CTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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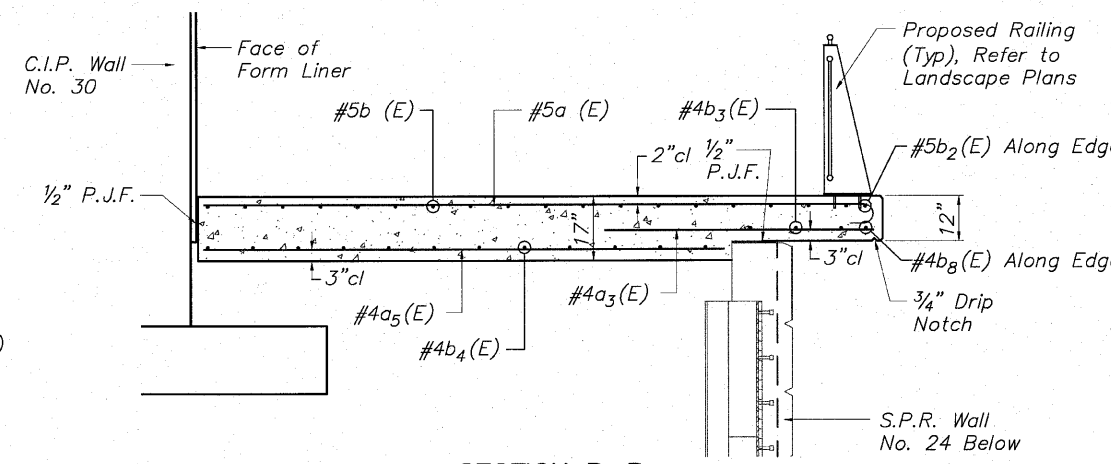
SHEET NO. 5
7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	103
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 85521	
		FED. AID PROJECT		

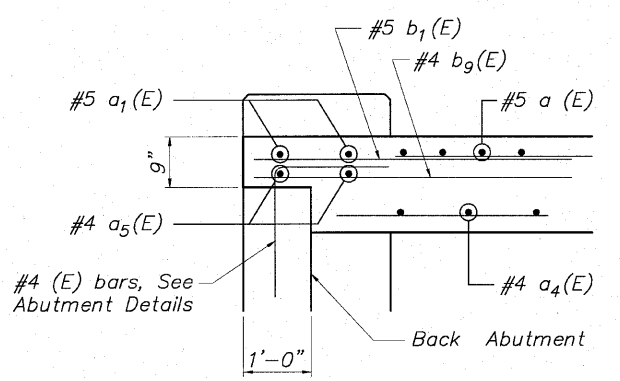
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



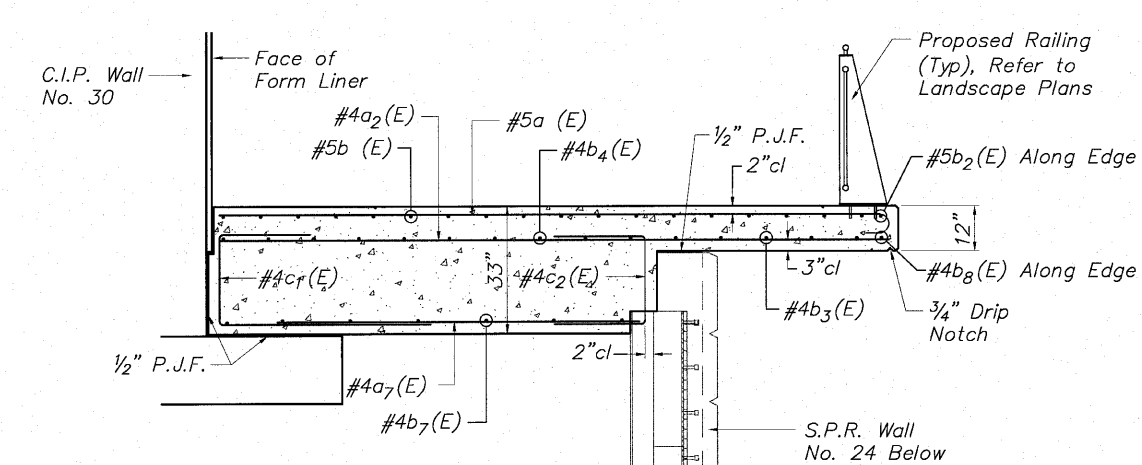
SECTION A-A



SECTION B-B



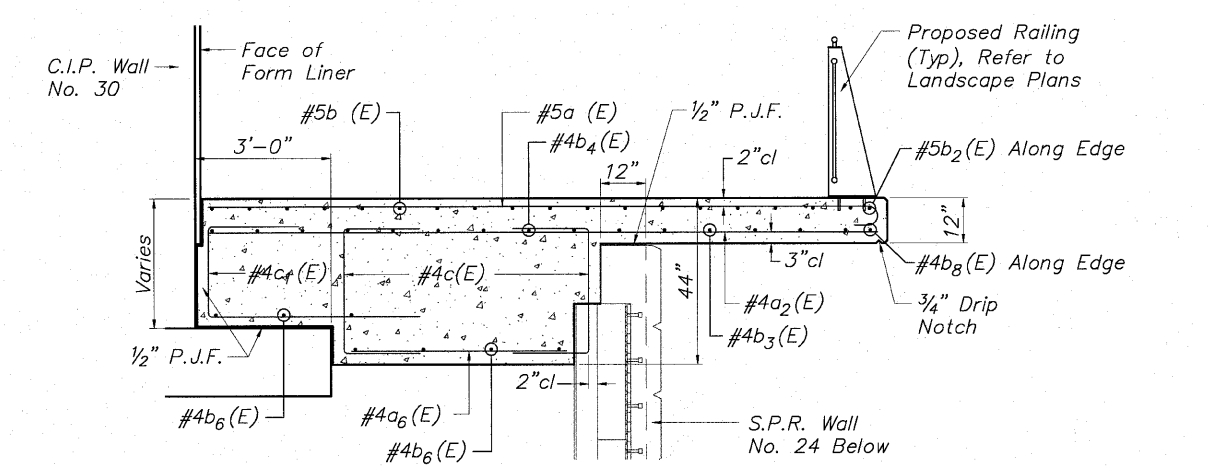
SECTION AT BRIDGE ABUTMENT



SECTION C-C

WALL INFORMATION CHART

Reference Point	Station to Top of Slab Elevation Pt.	Offset to Top of Slab Elevation Pt.	Elevation	Reference Point	Station to Top of Slab Elevation Pt.	Offset to Top of Slab Elevation Pt.	Elevation
E	211+86.01	5.00' Rt.	710.96	O	212+36.17	10.09' Lt.	710.95
F	211+87.35	5.20' Rt.	710.94	P	212+30.00	6.82' Lt.	710.92
G	211+86.86	8.17' Rt.	710.91	Q	212+20.00	4.34' Lt.	710.92
H	212+00.00	11.13' Rt.	710.71	R	212+10.00	3.56' Lt.	710.95
I	212+10.00	11.81' Rt.	710.64	S	212+00.00	4.42' Lt.	711.02
J	212+20.00	11.19' Rt.	710.61	T	211+89.36	7.21' Lt.	711.06
K	212+30.00	9.23' Rt.	710.60	U	211+88.88	4.76' Lt.	711.04
L	212+39.33	6.08' Rt.	710.57	V	211+86.01	5.00' Lt.	711.06
M	212+38.34	8.00' Lt.	710.85				
N	212+36.17	7.92' Lt.	710.91				



SECTION D-D

SLAB DEPTH CHART

Station Limits	Maximum Overhang	Min. Slab Depth
211+87.01 - 211+95	3'-6"	17"
211+95 - 212+04	5'-0"	35"
212+04 - 212+22	5'-6"	44"
212+22 - 212+31	5'-0"	35"
212+31 - 212+38.86	3'-6"	17"

SLAB DETAILS LOOKOUT No. 4
PEDESTRIAN RIVERWALK
ALONG THE ROCK RIVER
WINNEBAGO COUNTY
SECTION NO. 06-00543-00-BT
STA. 211+87.01 TO STA. 213+19.63

DESIGNED	CTB	EXAMINED	ENGINEER OF BRIDGE DESIGN
CHECKED	AAG	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	JAW		
CHECKED	JWH		

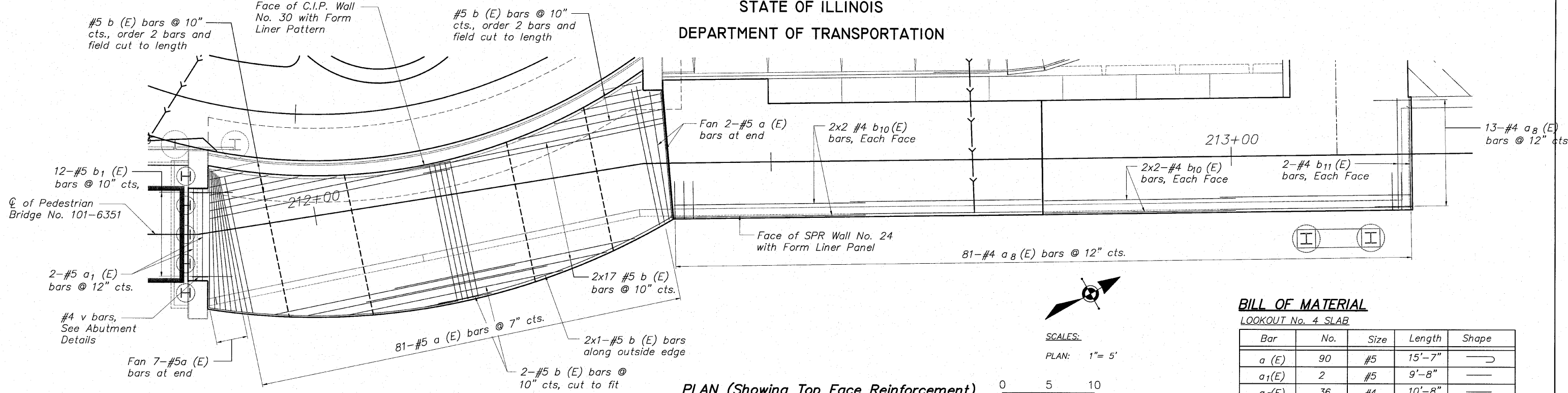
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SHEET NO. 6
7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	104
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 85521	

11-09-008 RIVERWALK DESIGN DRAWINGS STRUCTURAL GP#E108-008 LOOKOUT DET. DWG. PLANS DET. LOOKOUT, 8/30/2010 5:13:10 PM. JWH

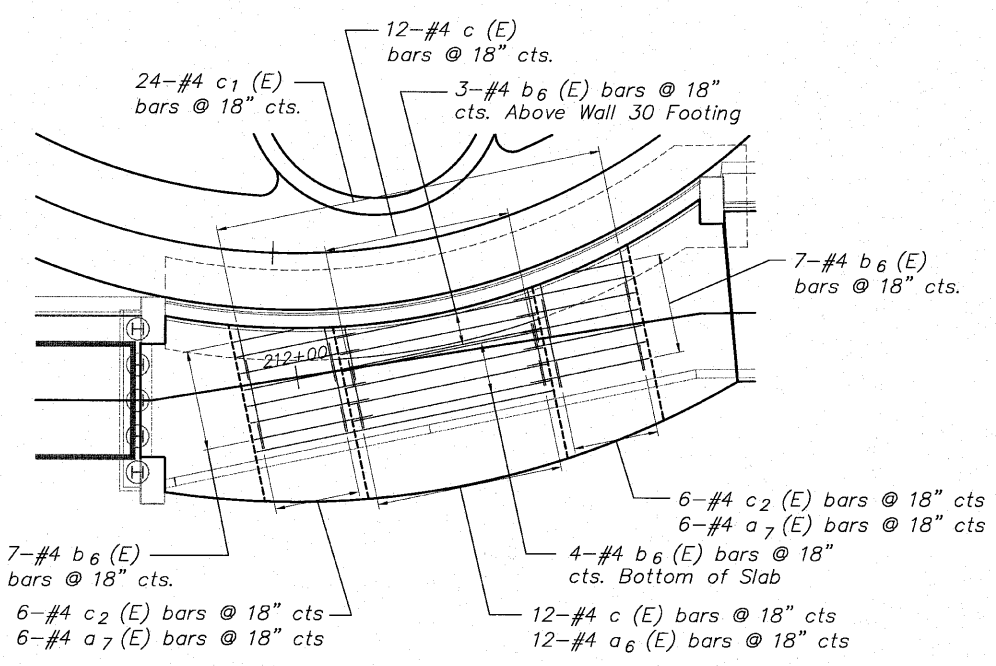
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



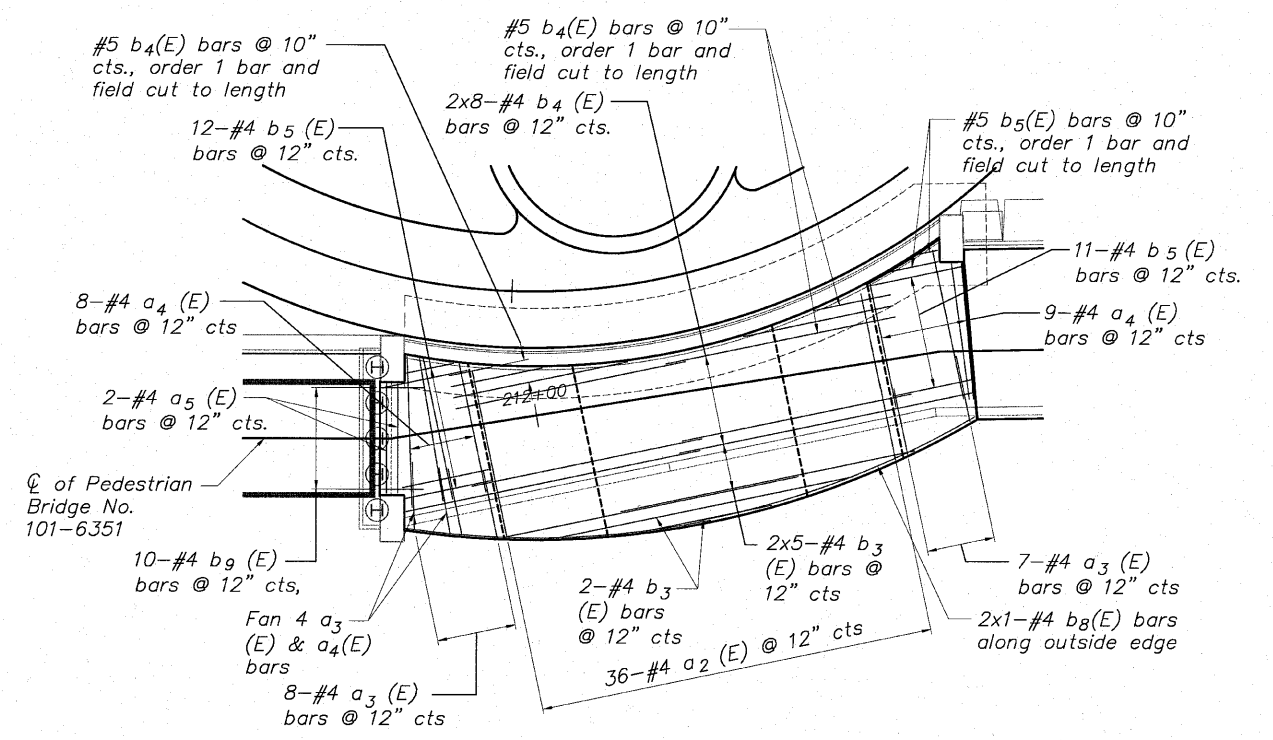
PLAN (Showing Top Face Reinforcement)

BILL OF MATERIAL
LOOKOUT No. 4 SLAB

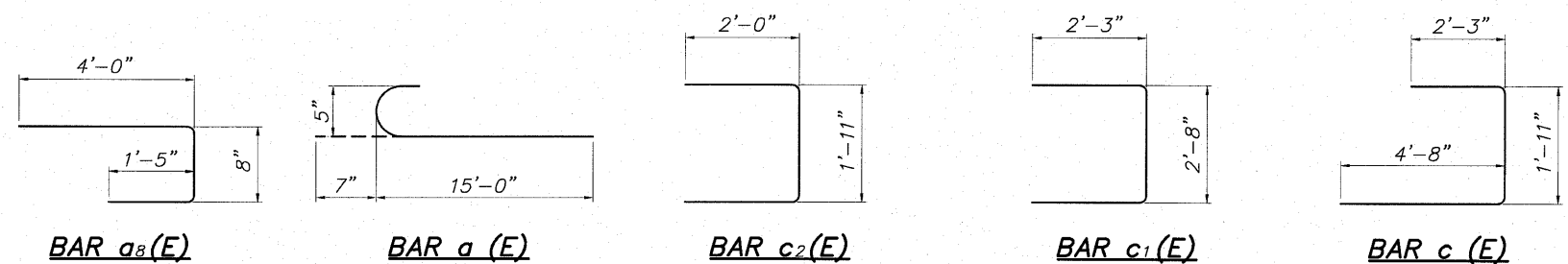
Bar	No.	Size	Length	Shape
a (E)	90	#5	15'-7"	┌──┐
a ₁ (E)	2	#5	9'-8"	──
a ₂ (E)	36	#4	10'-8"	──
a ₃ (E)	15	#4	15'-0"	──
a ₄ (E)	17	#4	13'-4"	──
a ₅ (E)	2	#4	9'-8"	──
a ₆ (E)	12	#4	5'-6"	──
a ₇ (E)	12	#4	8'-0"	──
a ₈ (E)	94	#4	6'-1"	┌──┐
b (E)	40	#5	26'-8"	──
b ₁ (E)	12	#5	4'-8"	──
b ₂ (E)	2	#5	27'-3"	┌──┐ R76'-10"
b ₃ (E)	12	#4	26'-6"	──
b ₄ (E)	18	#4	20'-8"	──
b ₅ (E)	24	#4	7'-9"	──
b ₆ (E)	7	#4	17'-8"	──
b ₇ (E)	14	#4	10'-8"	──
b ₈ (E)	2	#4	27'-0"	┌──┐ R76'-10"
b ₉ (E)	10	#4	4'-8"	──
b ₁₀ (E)	8	#4	20'-10"	──
b ₁₁ (E)	4	#4	12'-0"	──
c (E)	24	#4	7'-2"	┌──┐
c ₁ (E)	24	#4	8'-7"	┌──┐
c ₂ (E)	12	#4	5'-11"	┌──┐
Concrete Structures			Cu. Yd.	62.96
Reinforcement Bars (Epoxy Coated)			Pound	5,050



PARTIAL PLAN (Showing Additional Bottom Face Reinforcement)



PARTIAL PLAN (Showing Bottom Face Reinforcement)



DESIGNED	CTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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SHEET NO. 7
7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	105
CONTRACT NO.			85521	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

H:\05-008 RIVERWALK MUSEUM\DRAWINGS\STRUCTURAL\GPRE\08-008 LOOKOUT DET.DWG, DET-24 (5), 8/30/2010 5:14:05 PM, H. JWH

BENCHMARK		
NO.	DESCRIPTION	ELEVATION
	North Bonnet Bolt on Fire Hydrant South Of Museum Entrance on the East side of N. Main Street	736.60

EXISTING STRUCTURE: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIALS

C.I.P. WALL No. 30

ITEM	UNITS	TOTAL
Structure Excavation	Cu. Yd.	18
Concrete Structures	Cu. Yd.	53.4
Protective Coat	Sq. Yd.	76.4
Porous Granular Backfill	Cu. Yd.	112
Reinforcement Bars (Epoxy Coated)	Pound	4,270
Pipe Underdrain for Structures, 4"	Foot	55
Form Liner Textured Surface	Sq. Ft.	398
Rubbed Finish	Sq. Ft.	235

CENTERLINE CURVE DATA

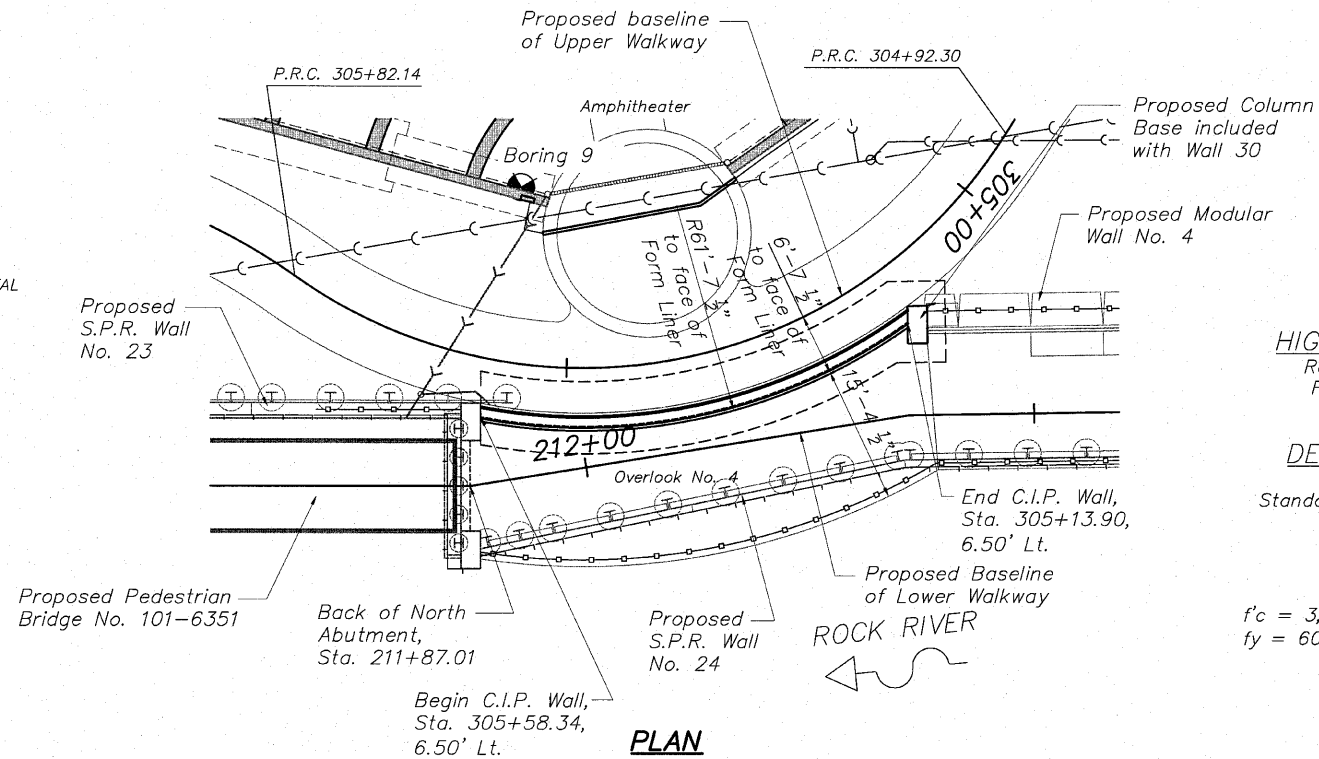
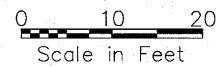
$\Delta = 93^{\circ}35'24''$
 $D = 104^{\circ}10'27''$
 RADIUS = 55.00'
 ARC LENGTH = 104.34'
 TANGENT = 58.56'
 EXTERNAL = 25.34'
 PRC = 304+92.30
 PRC = 305+82.14



SCALES:

PLAN: 1" = 10'

PROFILE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL



PLAN

HIGHWAY CLASSIFICATION

Rockford Pedestrian Riverwalk
 Functional Class: Pedestrian

DESIGN SPECIFICATIONS

2002 AASHTO
 Standard Specifications - 17th Edition

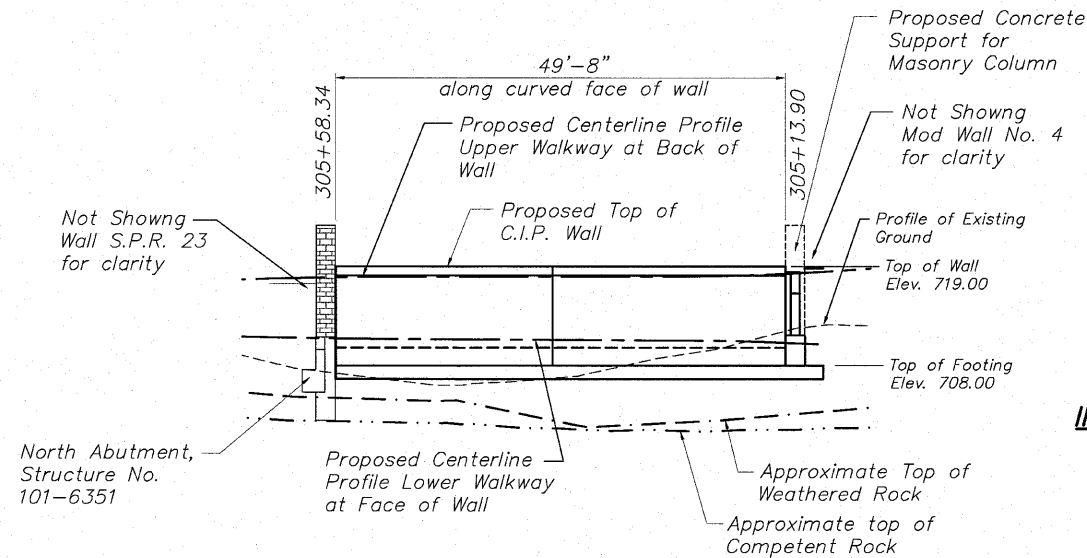
DESIGN STRESSES

Field Units
 $f'_c = 3,500$ psi (Cast-In Place Concrete)
 $f_y = 60,000$ psi (Reinforcement)

CUSTOMROCK
 Rustic Ashler
 Pattern No. 1103 or equal



FORM LINER PATTERN



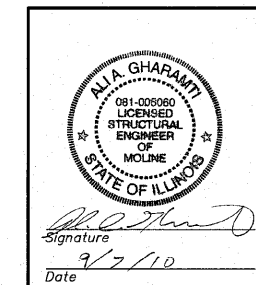
ELEVATION
 Front Face of Wall

GENERAL NOTES

- It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering materials.
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- Protective Coat shall be applied to all exposed surfaces of the wall and shall extend 1'-0" min. below finished grade.
- All construction joints shall be bonded.
- All exposed edges shall have a 3/4" x 45° chamfer, except as shown otherwise. Chamfers on vertical edges shall be continued a minimum of one foot below finished ground level.
- Exposed surfaces of concrete shall be given a "rubbed finish" except where form liner is specified.
- Reinforcing bars shall be lapped a minimum as shown on Plans where splices occur. Radius bars shall be factory bent and delivered to the site with appropriate radius. Field bending will only be allowed to achieve form clearances.
- Dewatering, if necessary, is the responsibility of the contractor.
- All work shall conform to Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition in Particular, Section 503 for Concrete Structures.
- Concrete shall be Class SI as specified in IDOT Standard Specification Section 1020.
- Allowable soil pressure at toe is to be 1500 PSF. Field verify at time of construction.
- Backfill behind the retaining wall shall be placed to the lines and grades as shown on the plans. The contractor shall take care to ensure use of suitable material and proper compaction of all fill areas. Compaction shall be performed with a loose thickness of no more than 8" and each lift shall be compacted to a density greater than 95% Standard Proctor maximum dry density (ASTM D-698) taking care not to over compact the soil directly behind the wall. Soil moisture shall be within -2% to +3% of optimum. No heavy equipment shall be allowed within 6 feet of the wall during backfilling and compaction. Compaction shall be by hand method, "walk behind" equipment in the areas within 6 feet of the face of the wall.

INDEX OF SHEETS-C.I.P. Wall No. 30

- General Plan and Elevation
- C.I.P. Wall No. 30 Details
- C.I.P. Wall No. 30 Details



GENERAL PLAN & ELEVATION
 C.I.P. WALL No. 30
 PEDESTRIAN RIVERWALK
 ALONG THE ROCK RIVER
 WINNEBAGO COUNTY
 SECTION NO. 06-00543-00-BT
 STATION 305+58.34 TO
 STATION 305+13.90

DESIGNED	JWH
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

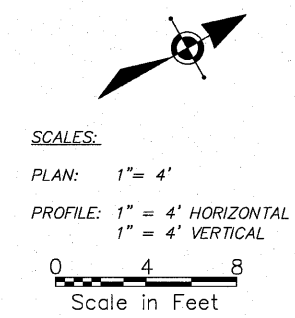
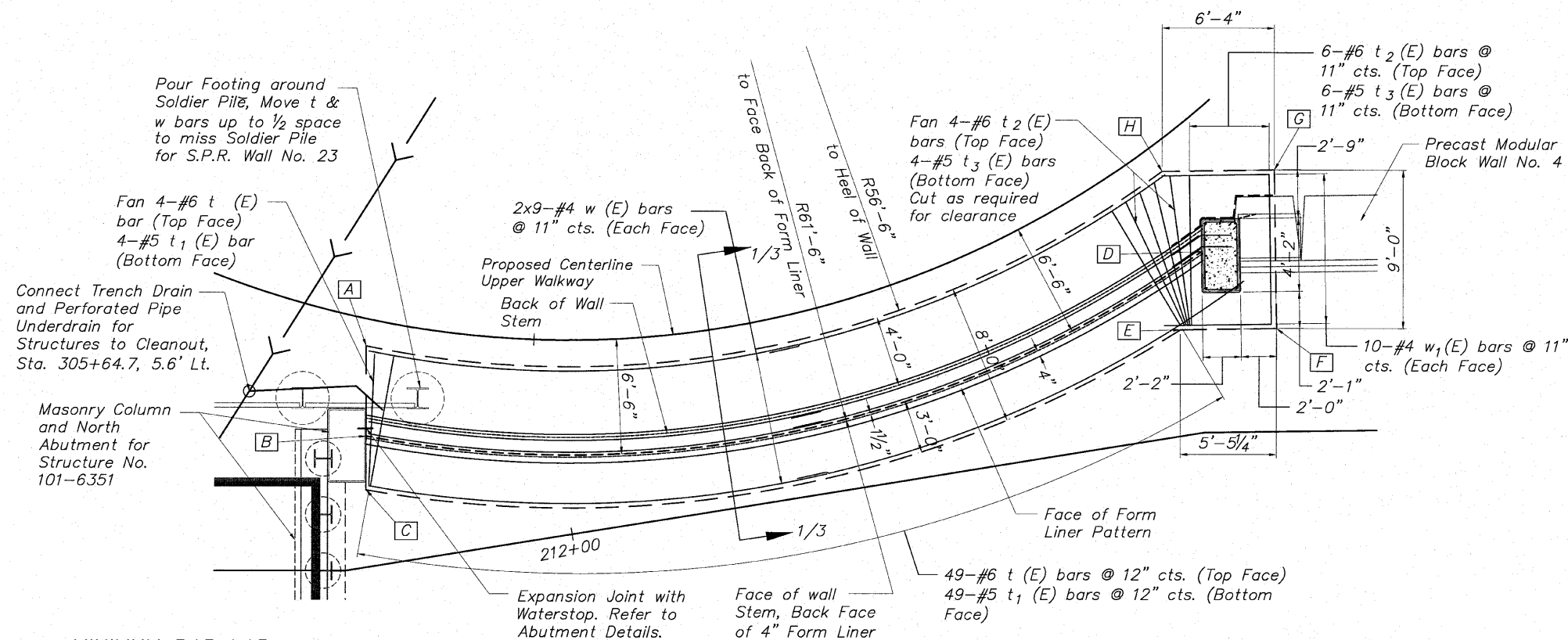
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SHEET NO. 1
 3 SHEETS

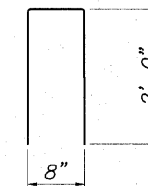
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CONTRACT NO.			85521	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

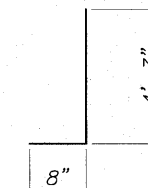
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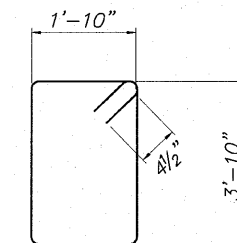
SCALES:
PLAN: 1" = 4'
PROFILE: 1" = 4' HORIZONTAL
1" = 4' VERTICAL



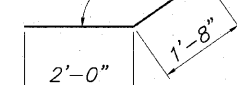
BAR v₂(E)



BAR v₃(E)



BAR s(E)



BAR h₁(E)

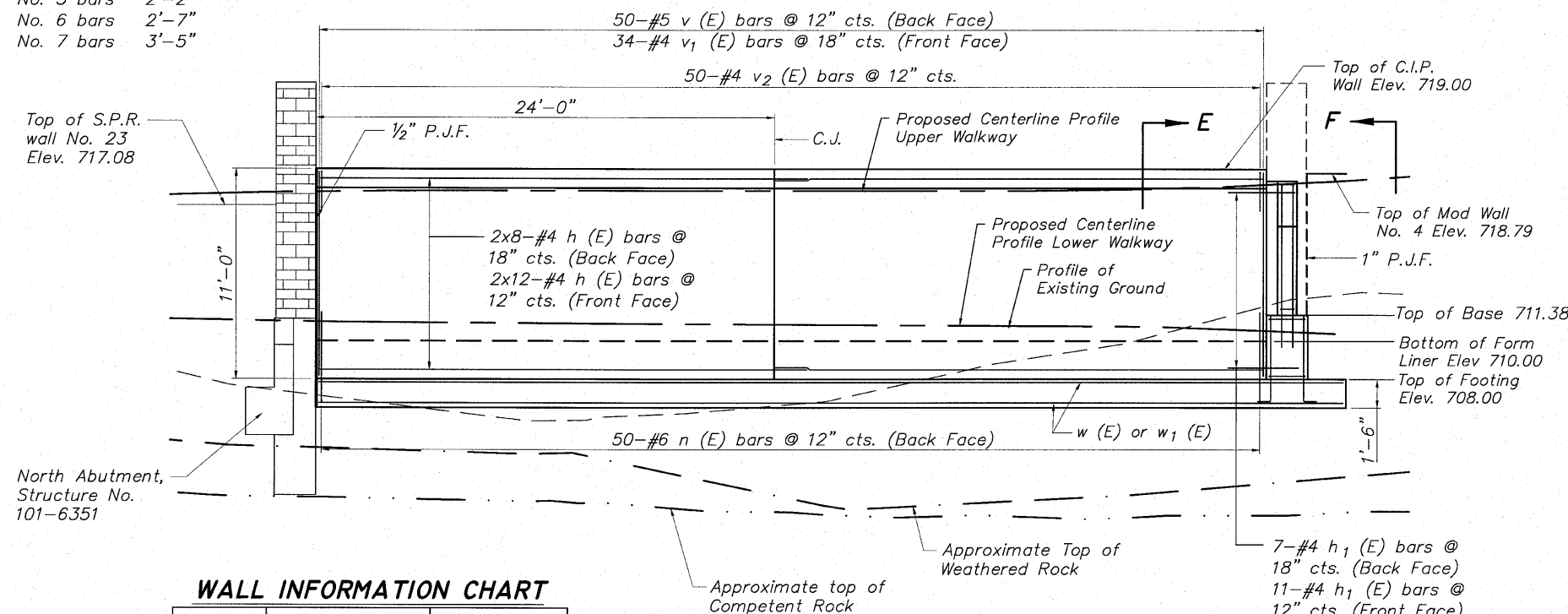
Bar	No.	Size	Length	Shape
h (E)	40	#4	26'-6"	R=60'
h ₁ (E)	18	#4	3'-8"	
n (E)	50	#6	5'-4"	
s (E)	4	#5	12'-1"	
s ₁ (E)	5	#5	8'-5"	
s ₂ (E)	6	#5	6'-0"	
v (E)	50	#5	10'-8"	
v ₁ (E)	34	#4	10'-8"	
v ₂ (E)	50	#4	4'-8"	
v ₃ (E)	12	#4	4'-11"	
v ₄ (E)	8	#4	8'-6"	
t (E)	50	#6	7'-6"	
t ₁ (E)	50	#5	7'-6"	
t ₂ (E)	10	#6	8'-6"	
t ₃ (E)	10	#5	8'-6"	
w (E)	36	#4	26'-6"	R=60'
w ₁ (E)	20	#4	6'-1"	

Concrete Structures	Cu. Yd.	53.4
Reinforcement Bars (Epoxy Coated)	Pound	4,270
Form Liner Textured Surface	Sq. Ft.	398
Rubbed Finish	Sq. Ft.	235
Pipe Underdrain for Structures	Foot	55

MINIMUM BAR LAP

- No. 4 bars 1'-8"
- No. 5 bars 2'-2"
- No. 6 bars 2'-7"
- No. 7 bars 3'-5"

PLAN (Showing reinforcement)



ELEVATION (Showing Reinforcement)

WALL INFORMATION CHART

Reference Point	Station	Offset
A	305+59.25	1.50' Lt.
B	305+58.34	6.50' Lt.
C	305+57.86	9.50' Lt.
D	305+13.90	6.50' Lt.
E	305+16.93	9.50' Lt.
F	305+13.16	12.51' Lt.
G	305+08.39	5.42' Lt.
H	305+13.08	1.50' Lt.

DESIGNED	JWH
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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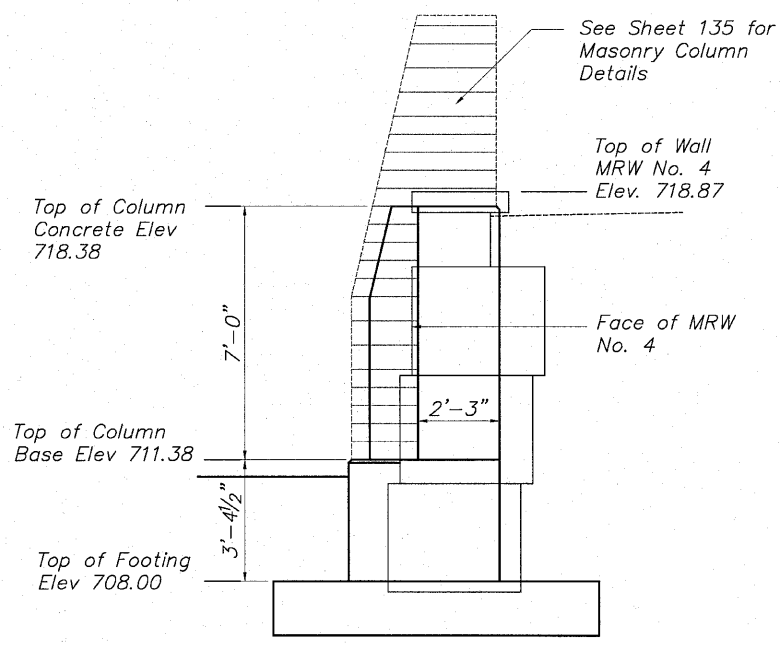
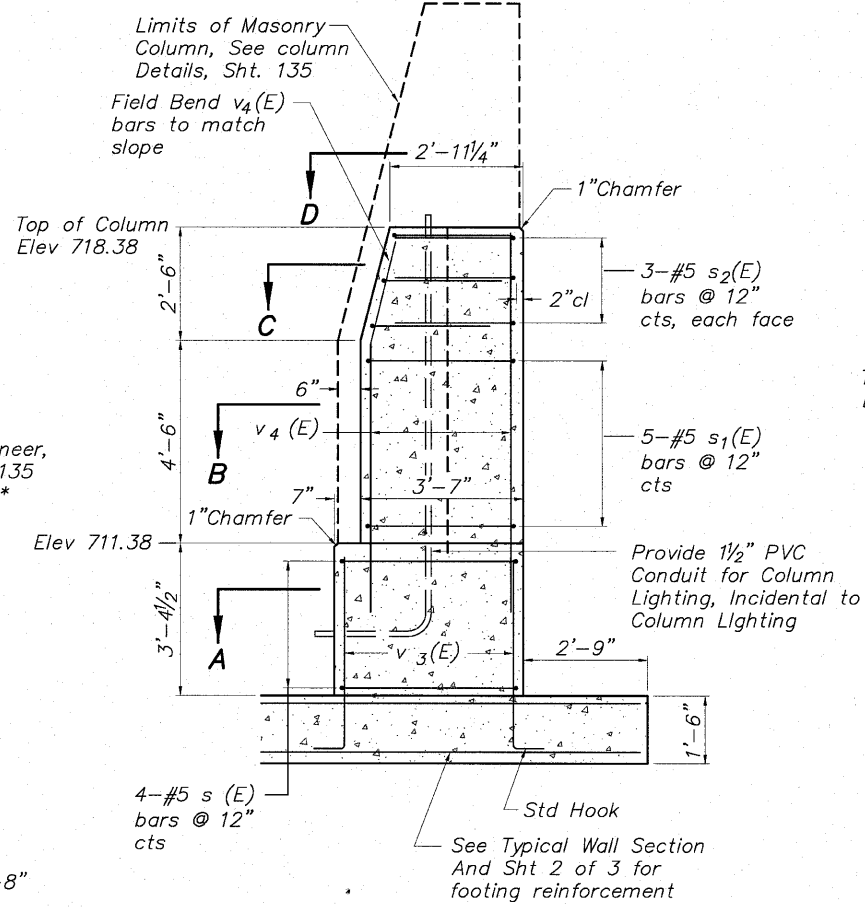
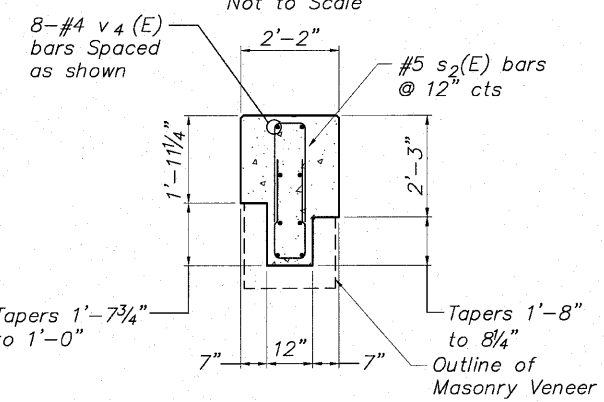
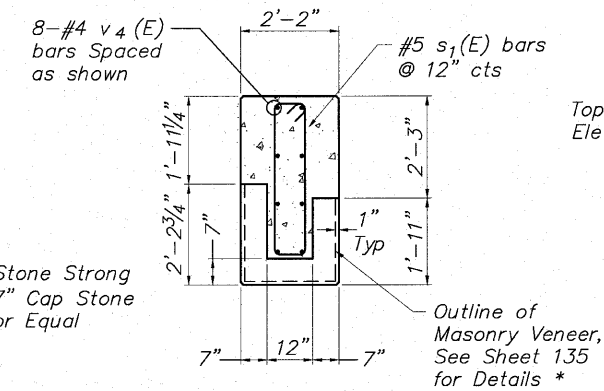
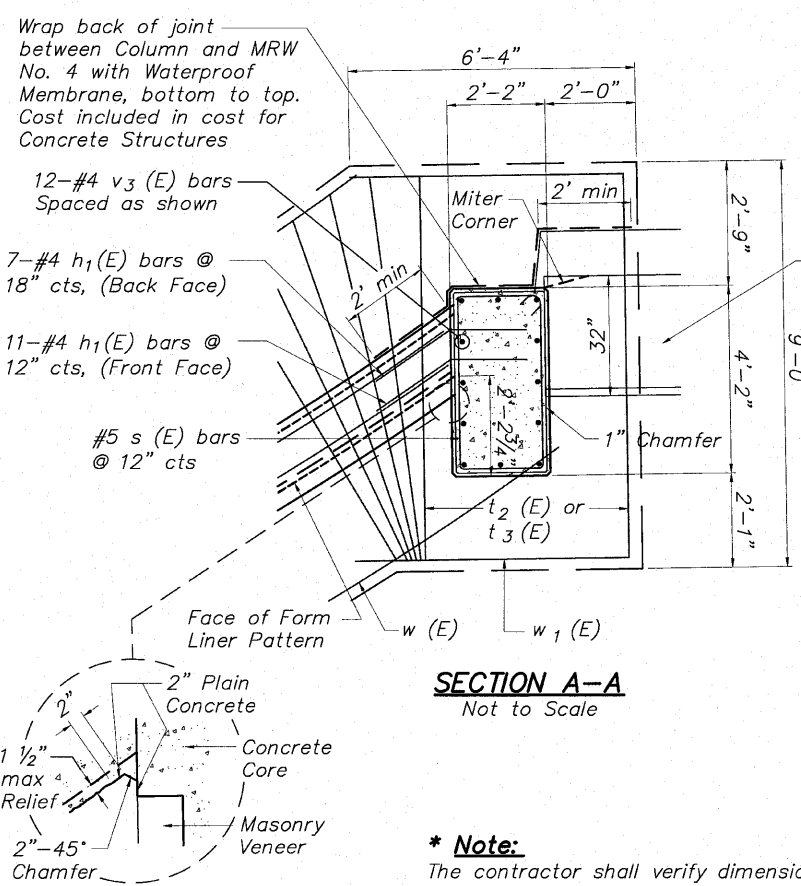
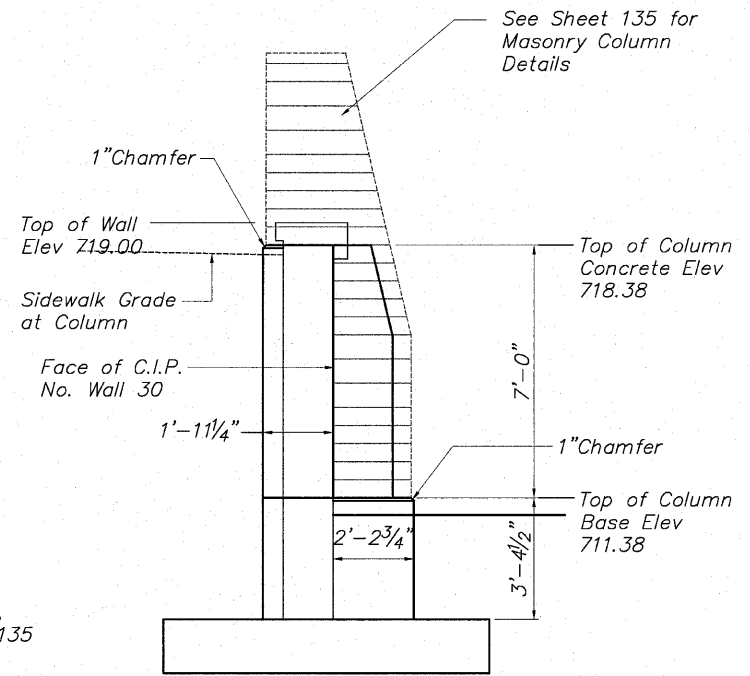
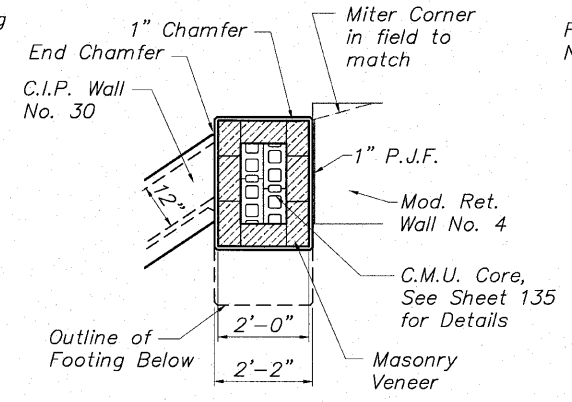
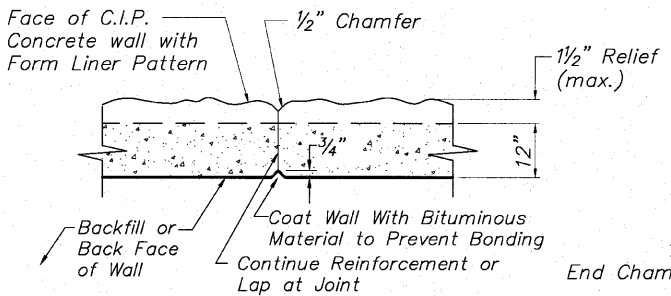
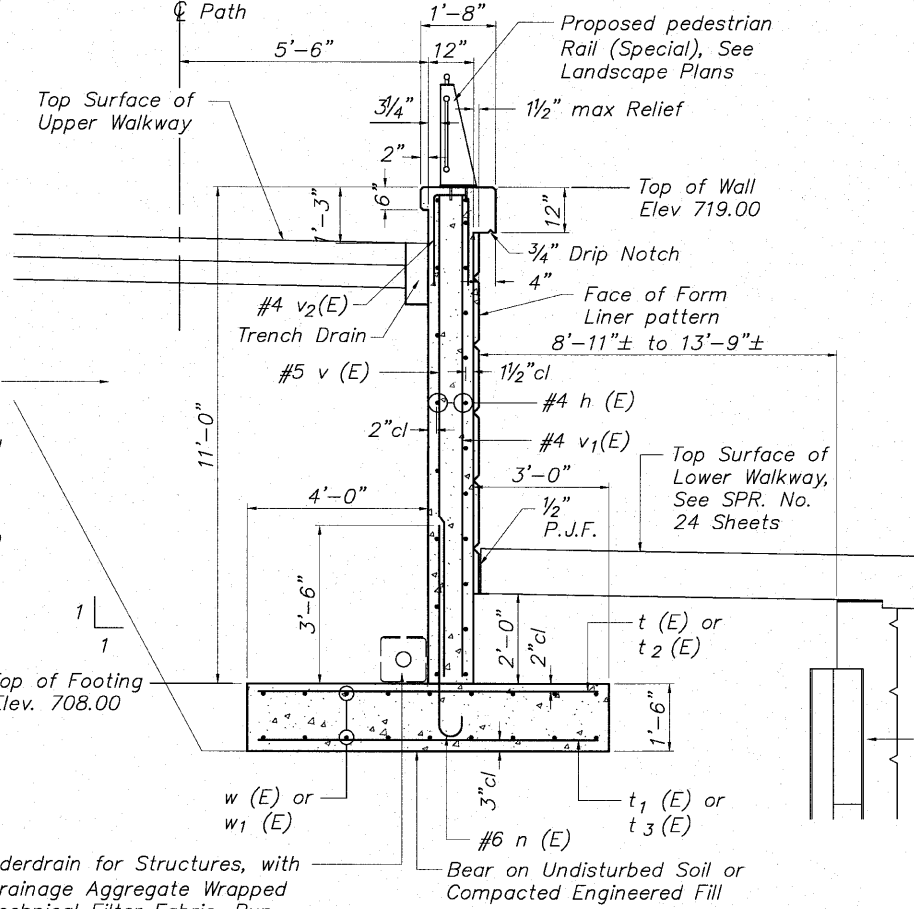
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3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			85521	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**C.I.P. WALL No. 30 DETAILS
PEDESTRIAN RIVERWALK
ALONG THE ROCK RIVER
WINNEBAGO COUNTY
SECTION NO. 06-00543-00-BT
STATION 305+58.34 TO
STATION 305+13.90**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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PEDESTRIAN RIVERWALK
ALONG THE ROCK RIVER
WINNEBAGO COUNTY
SECTION NO. 06-00543-00-BT
STATION 305+58.34 TO
STATION 305+13.90

*** Note:**
The contractor shall verify dimensions of Masonry Units and Veneer shown on the Column Details prior to forming the veneer ledge or ordering reinforcing. Inform the Engineer of any changes necessary to achieve a snug fit between the Masonry Units and the adjacent walls.

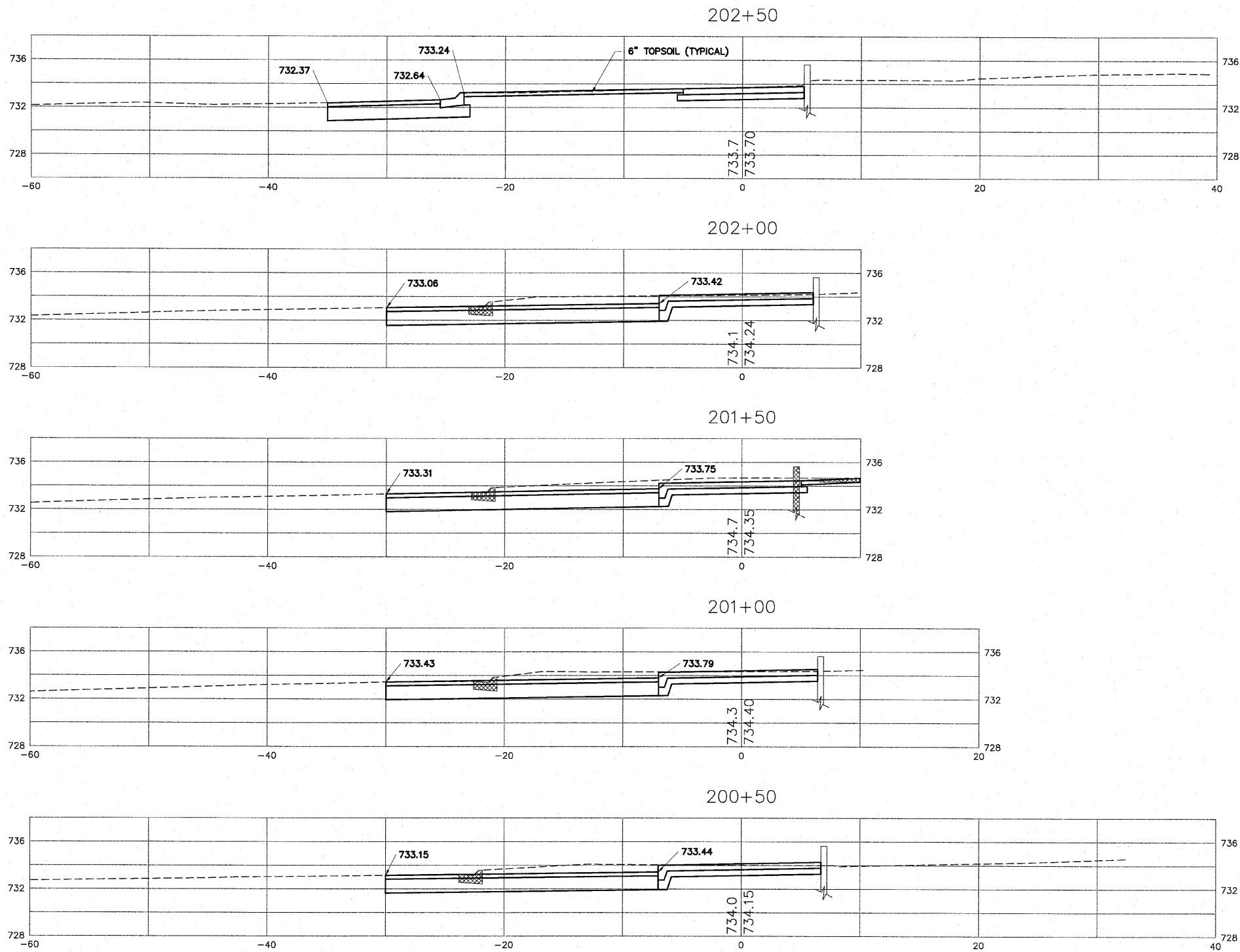
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DRAWN	JAW
CHECKED	JWH

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SHEET NO. 3
3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 85521	

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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

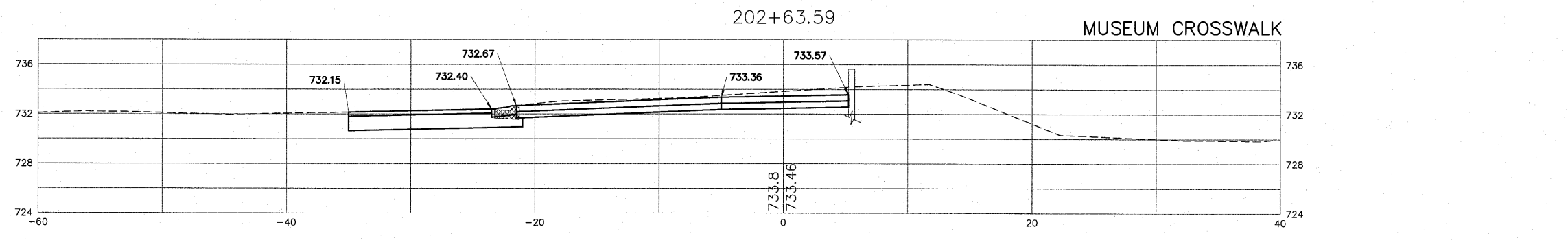
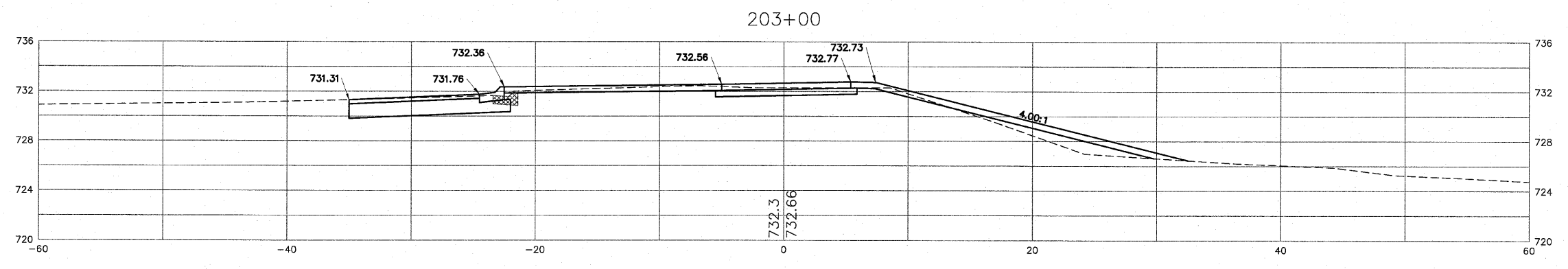
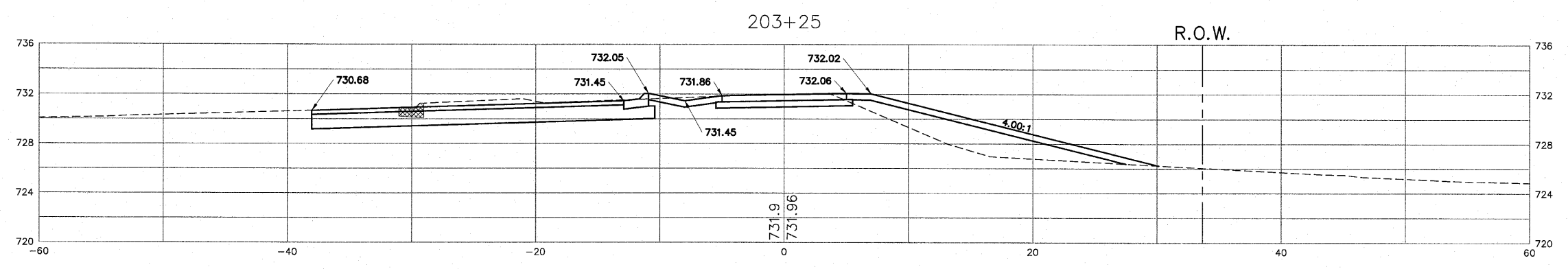
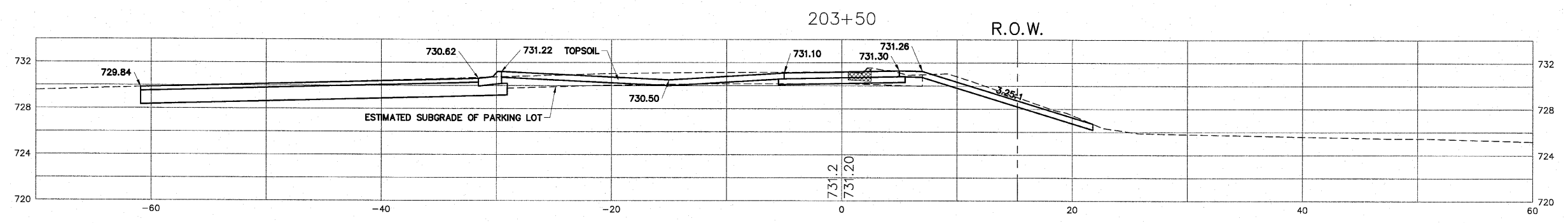
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SHEET NO.
109
 OF
148



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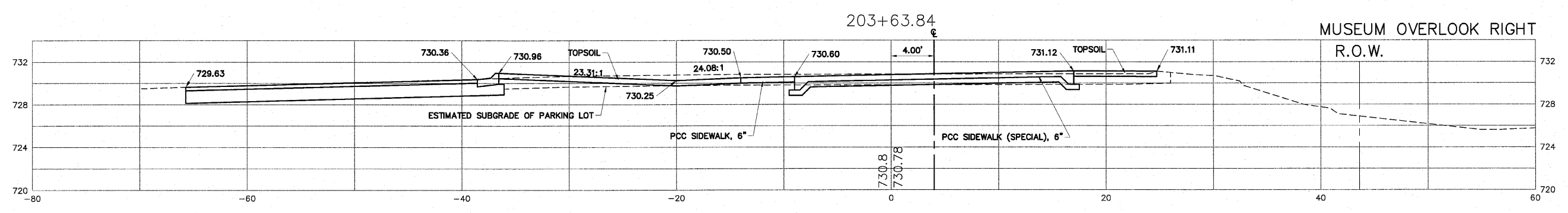
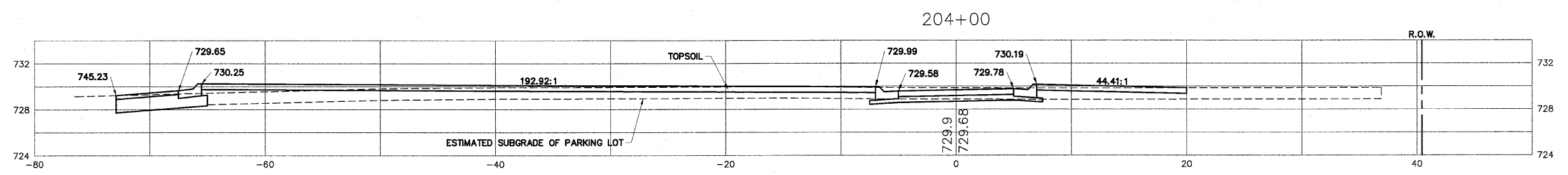
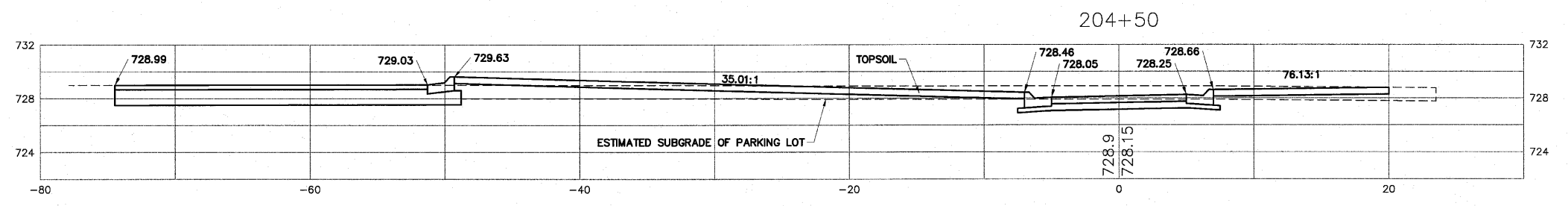
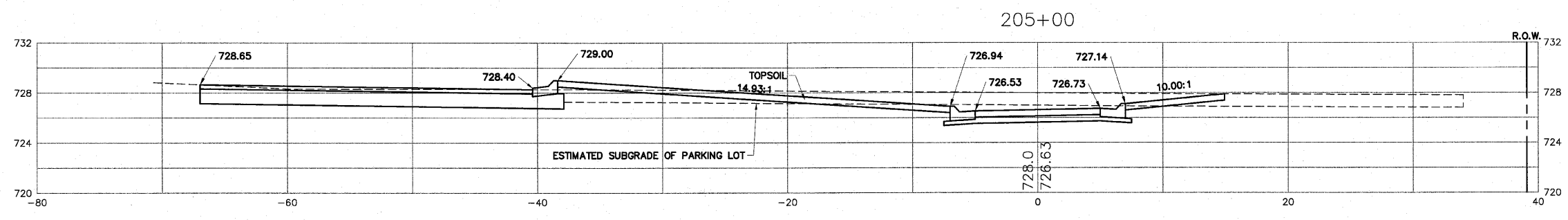
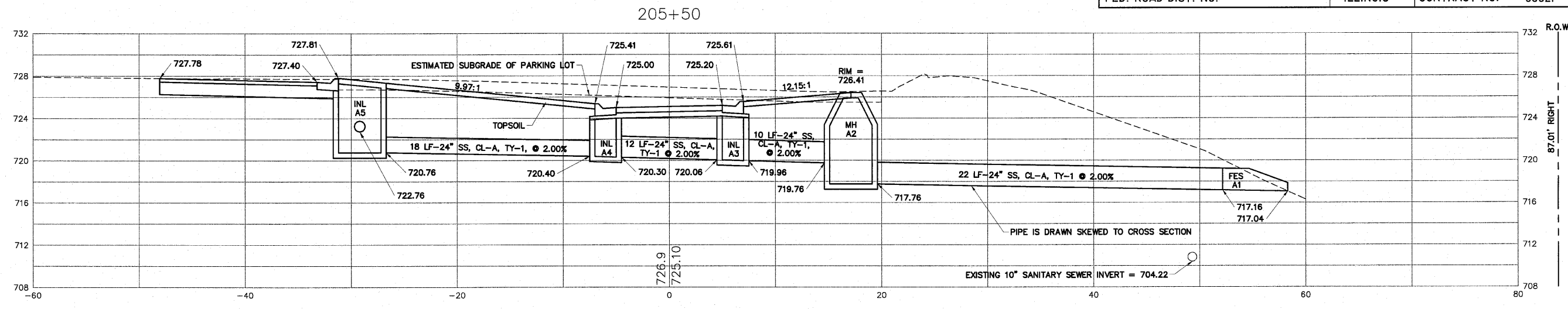
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SHEET NO.
110
 OF
148



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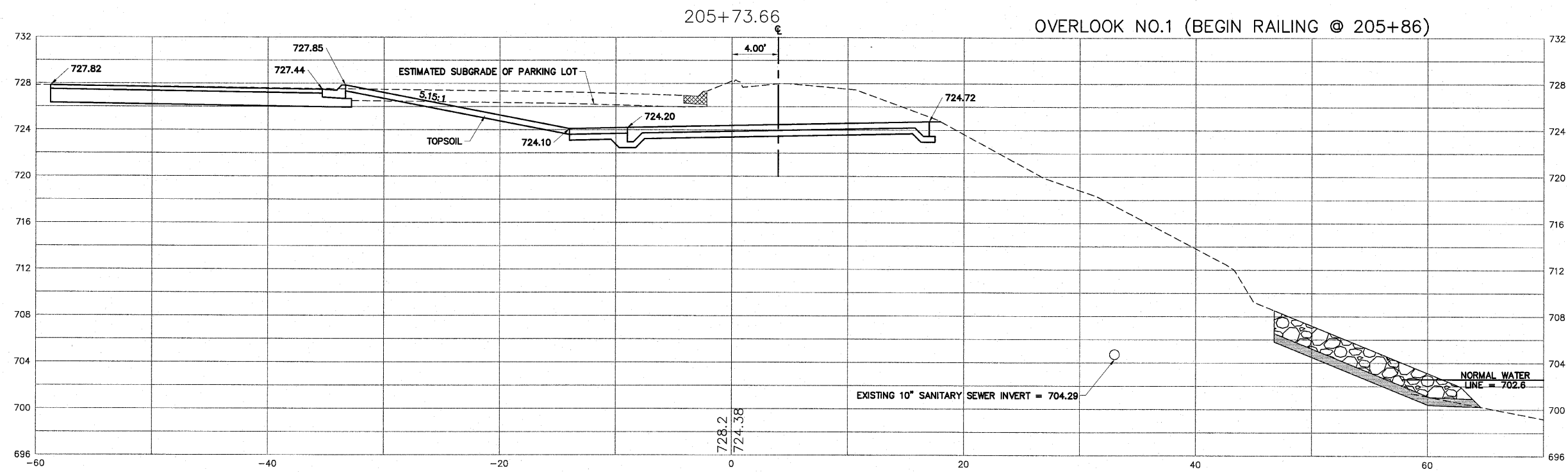
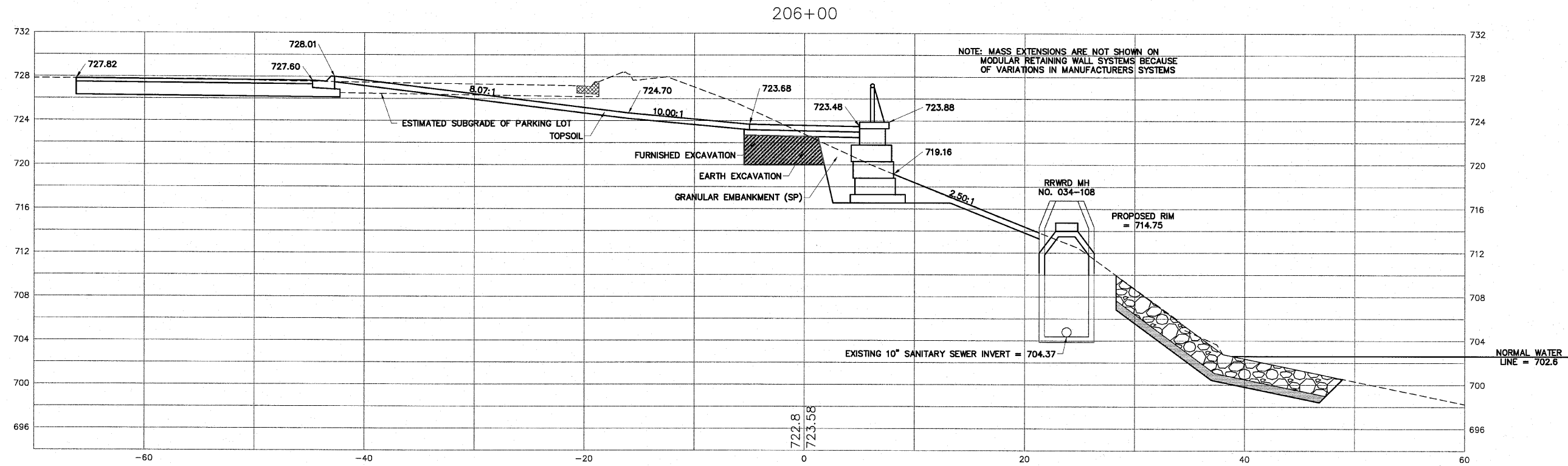
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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

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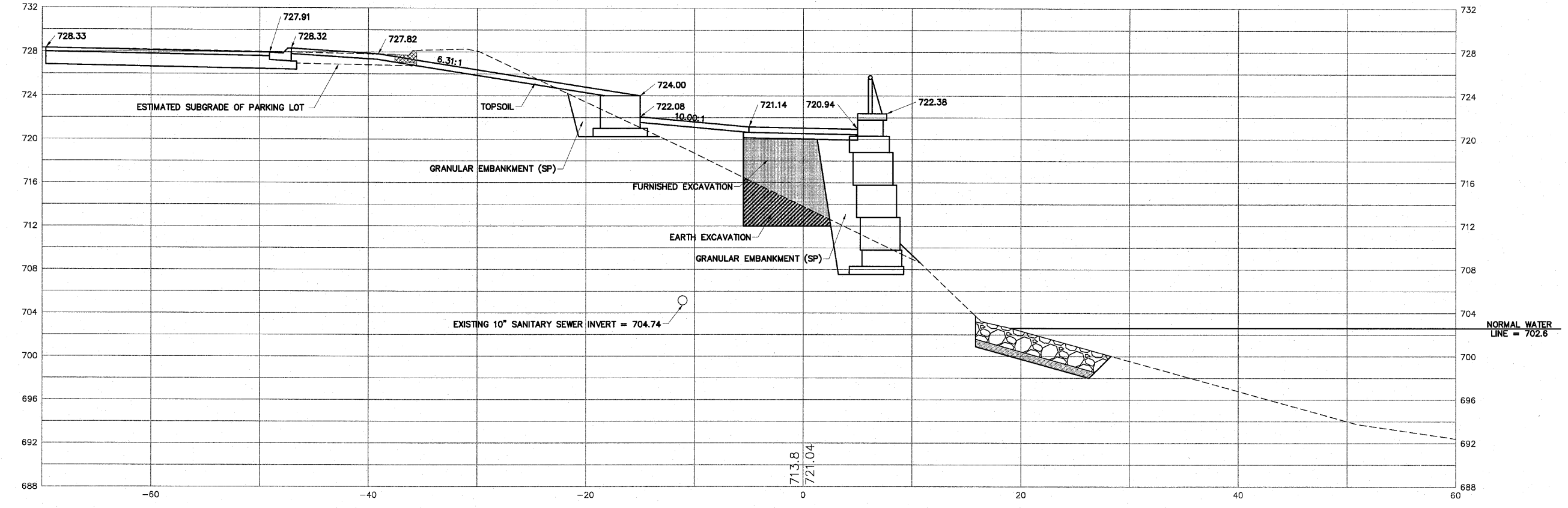
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JOB:04-28-10-008



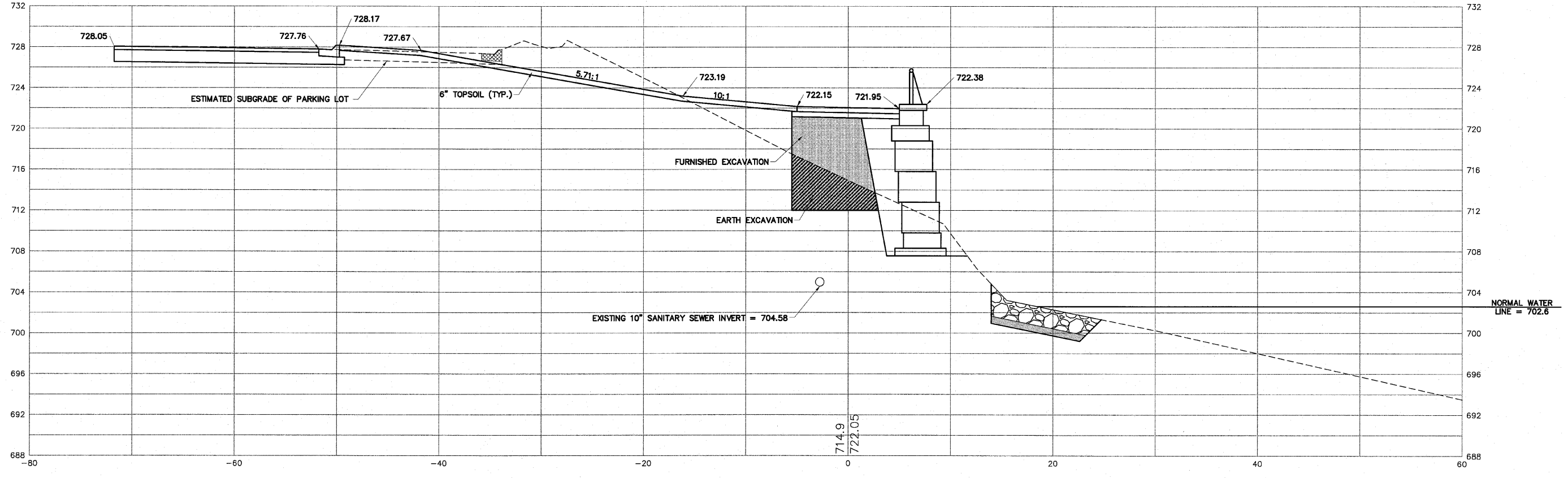
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AGENCY	DATE																				
NO.	ITEM	DATE																			

206+90



206+50



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AGENCY	DATE

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NO.	ITEM	DATE

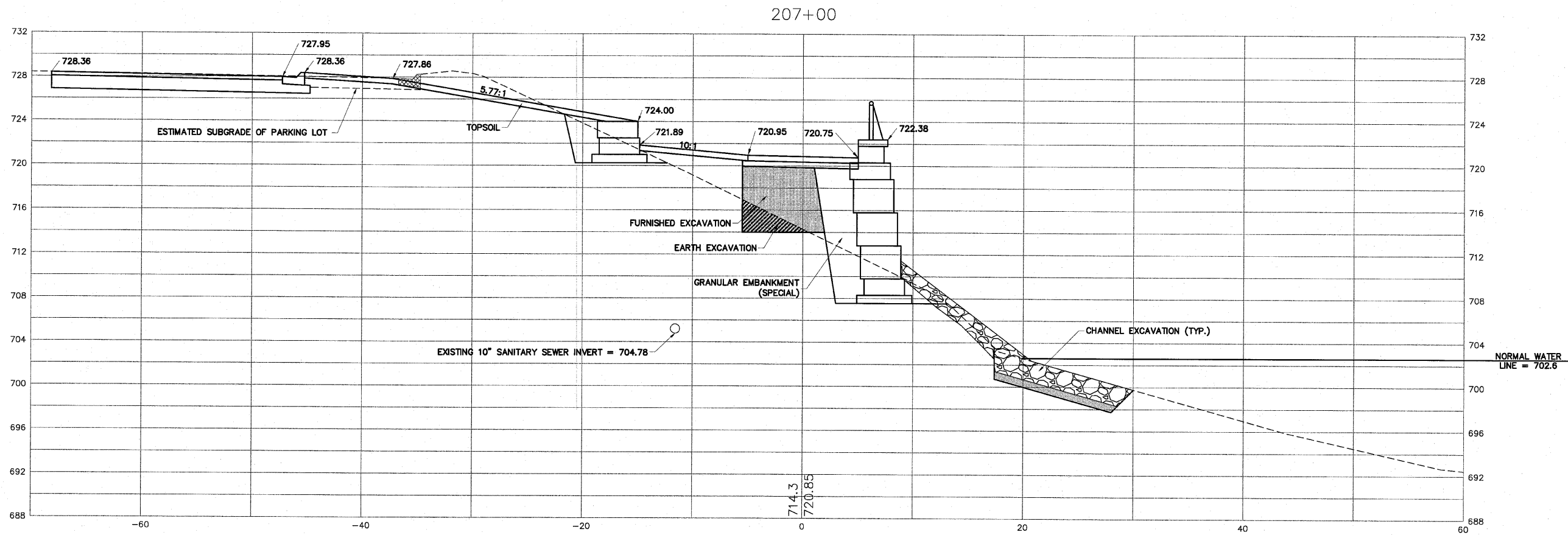
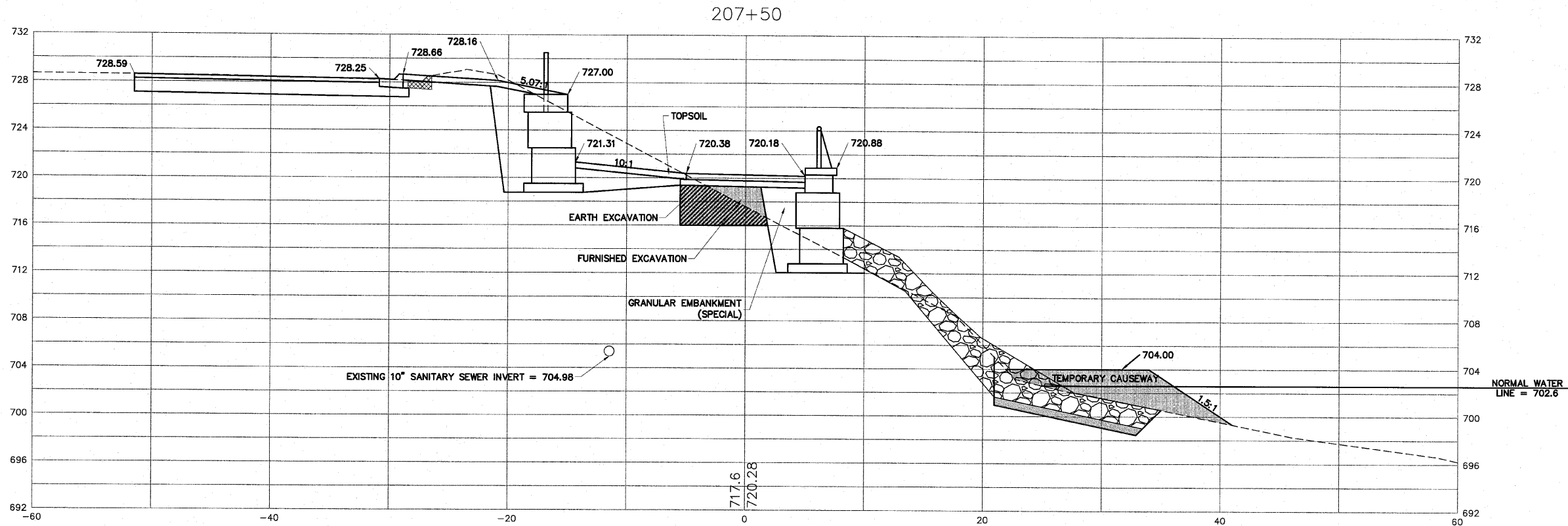
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JOB: 04-28-10-008

SHEET NO.
113
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148



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SHEET REVIEW	
AGENCY	DATE

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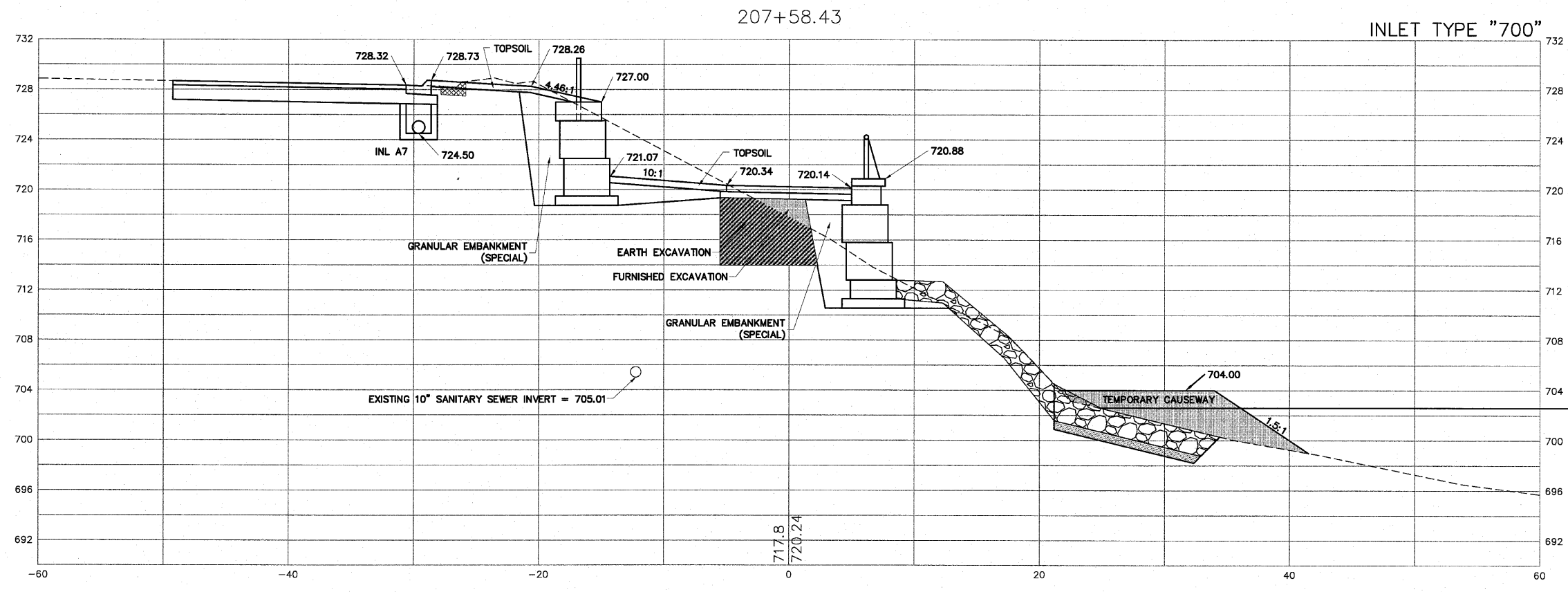
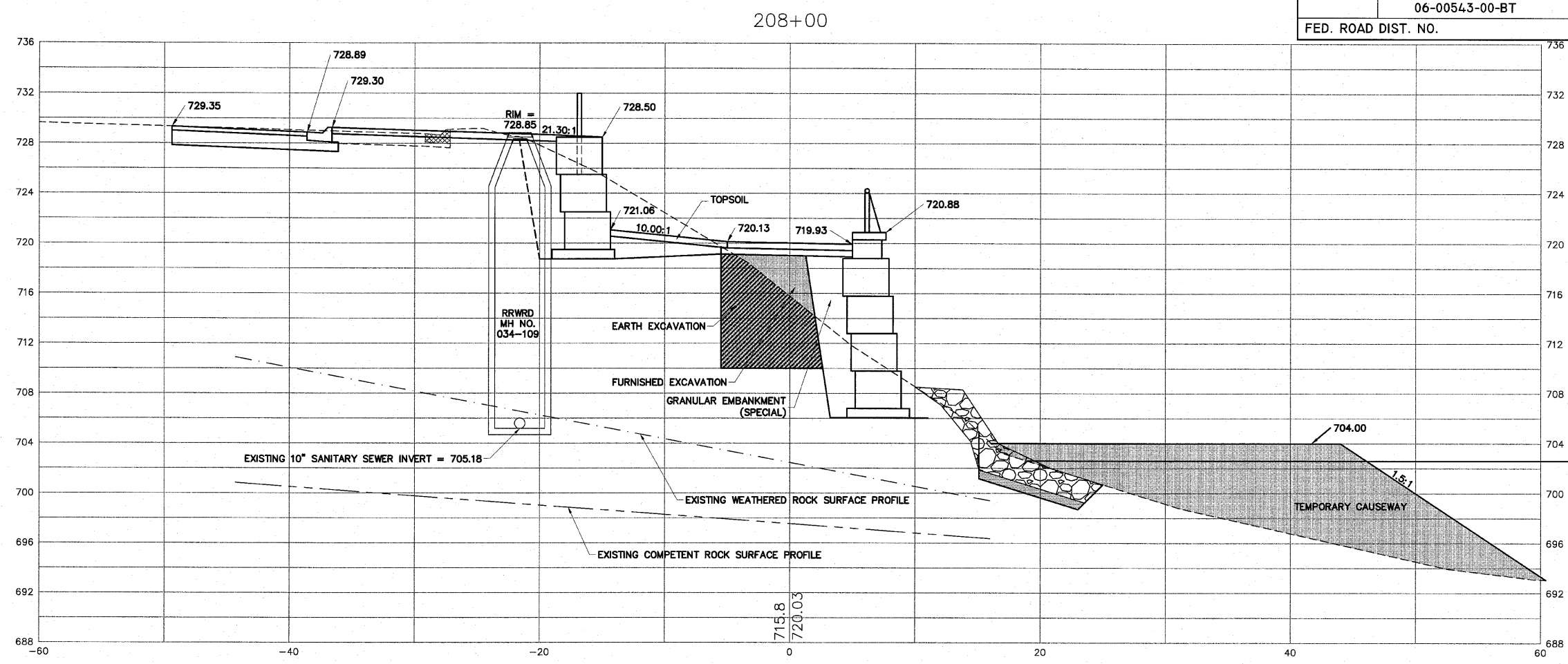
CROSS SECTIONS - 207+00 TO 207+50

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.
114
 OF
148



SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE: Hor. 1"=5' Ver. 1"=5'
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 DATE: AUGUST 13, 2010

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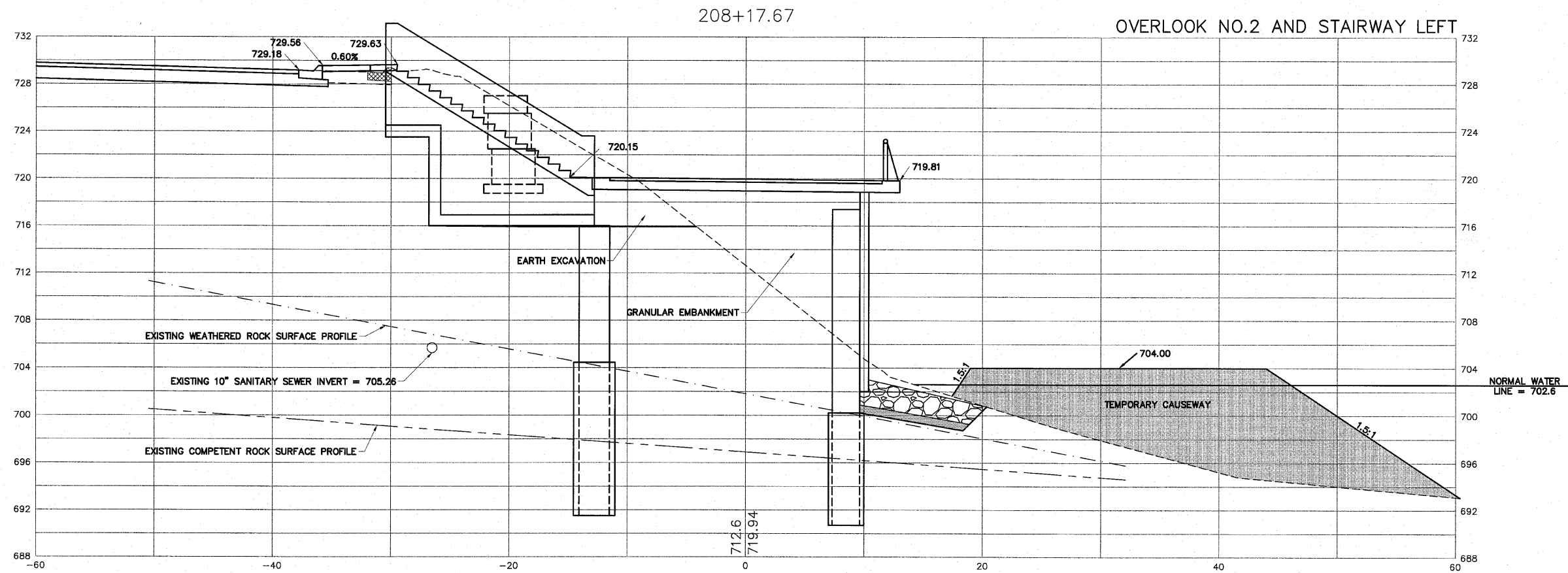
CROSS SECTIONS - 207+58.43 TO 208+00

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

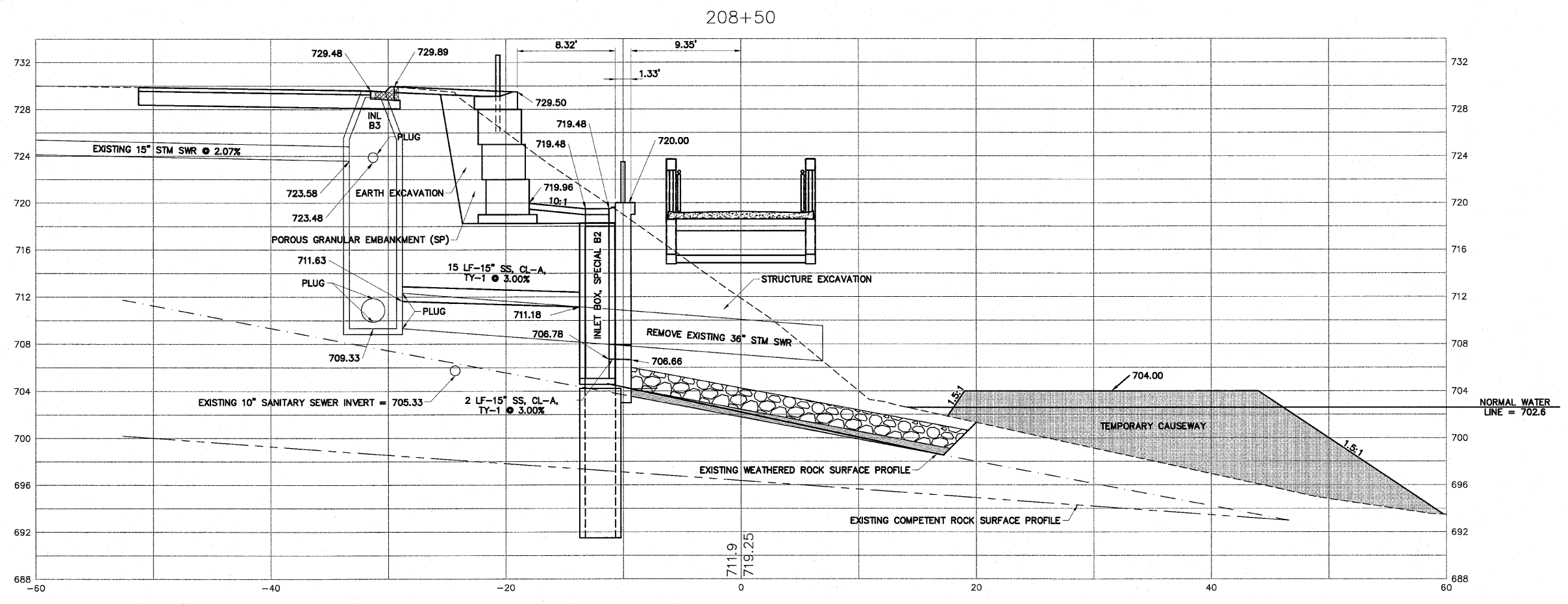
SHEET NO.
115
 OF
148

H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 207+58.43 TO 208+00 9/1/2010 2:39:20 PM J.L. MONY



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 208+17.67, 9/11/2010 2:39:25 PM, L.I. MONTY

	<p style="text-align: center;">SHEET REVIEW</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">AGENCY</th> <th style="width: 50%;">DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	AGENCY	DATE			<p style="text-align: center;">REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 75%;">ITEM</th> <th style="width: 20%;">DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	ITEM	DATE				<p>SCALE: Hor. 1"=5' Ver. 1"=5'</p> <p>DRAWN BY: MS</p> <p>CHECKED BY: JWH</p> <p>DATE: AUGUST 13, 2010</p>	<p>McClure Engineering Associates, Inc.</p> <p><small>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.</small></p>	<p>CROSS SECTIONS - 208+17.67</p> <p>RIVERWALK MUSEUM CAMPUS</p> <p>711 NORTH MAIN STREET ROCKFORD, IL</p> <p><small>FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG JOB: 04-28-10-008</small></p>	<p>SHEET NO.</p> <p>116</p> <p>OF</p> <p>148</p>
AGENCY	DATE															
NO.	ITEM	DATE														



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 208+50, 9/1/2010 2:39:30 PM, JI, MORTY

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	Hor. 1"=5' Ver. 1"=5'
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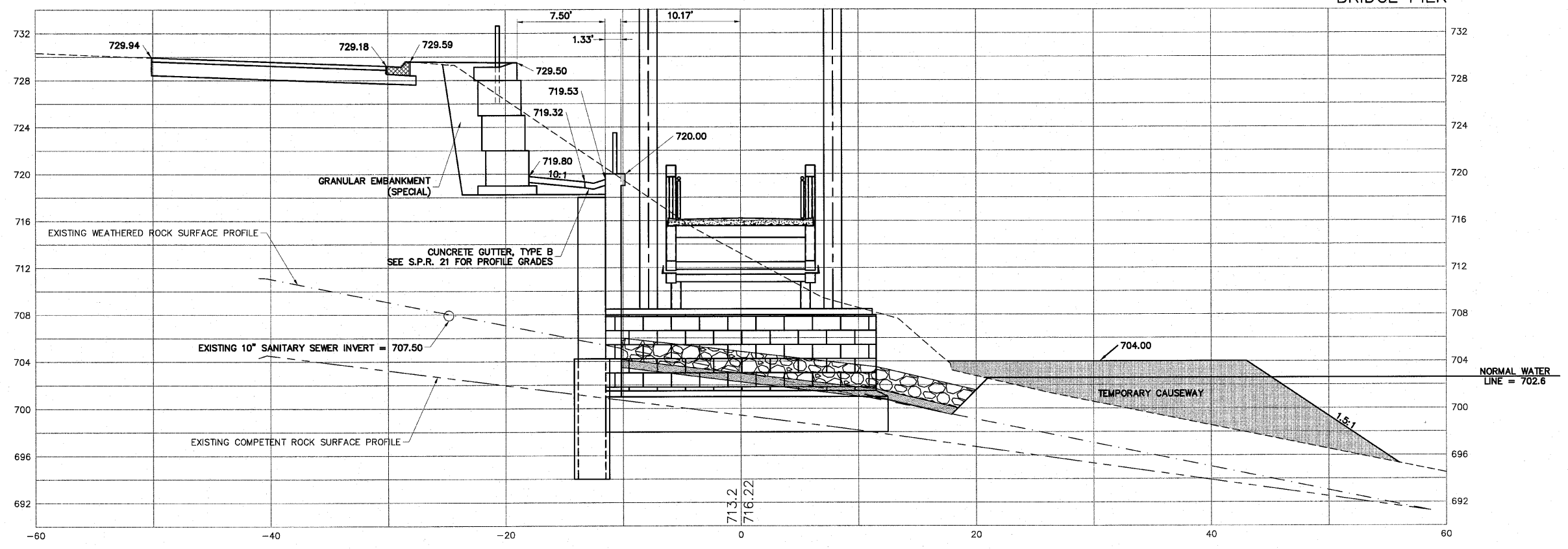
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CROSS SECTIONS - 208+50
 RIVERWALK MUSEUM CAMPUS
 711 NORTH MAIN STREET
 ROCKFORD, IL
 FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
 JOB: 04-28-10-008

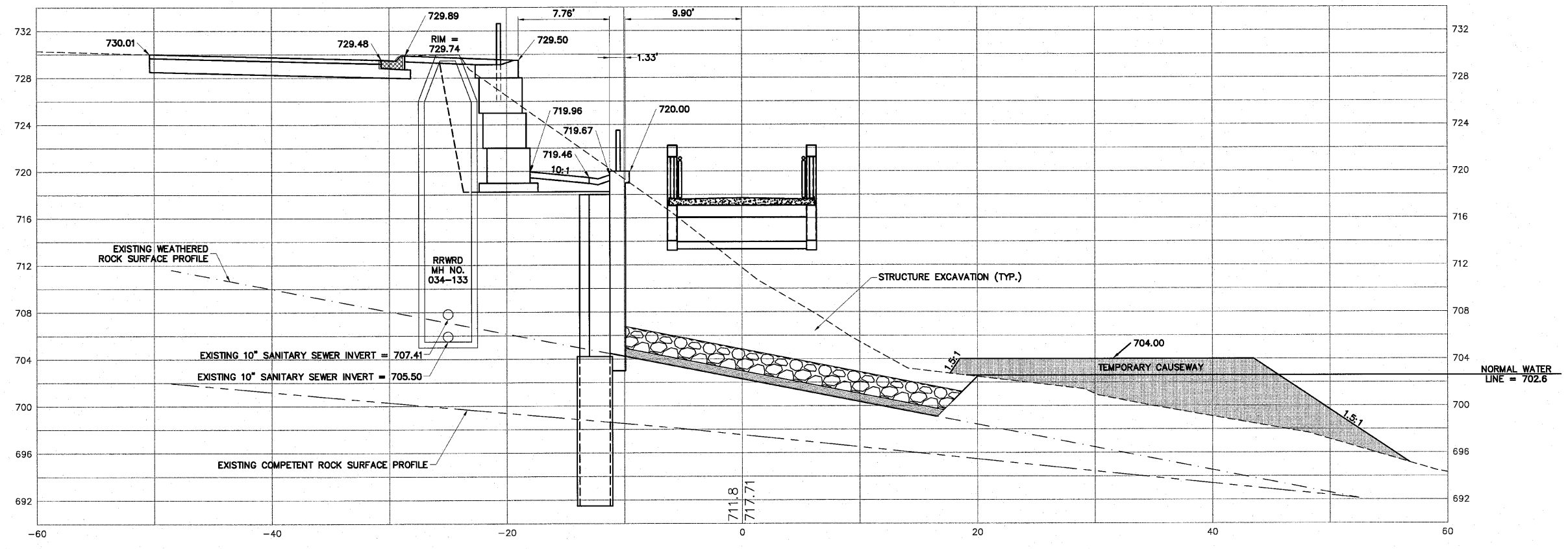
SHEET NO.
117
 OF
148

209+48.25

BRIDGE PIER

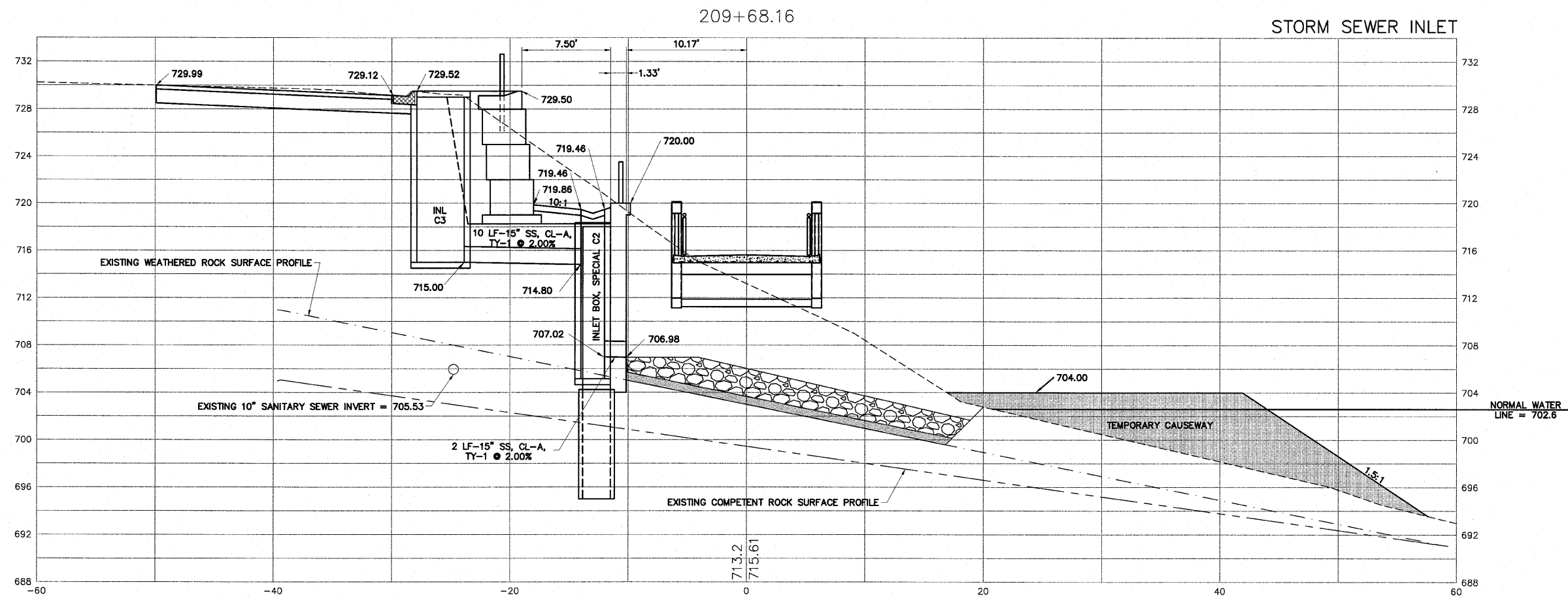


209+00



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 209+00 TO 209+48.26, 9/11/2010 2:39:35 PM, E.L. MONTY

<p>SHEET REVIEW</p> <table border="1"> <tr> <th>AGENCY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>		AGENCY	DATE			<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>ITEM</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	ITEM	DATE				<p>SCALE: Hor. 1"=5' Ver. 1"=5'</p> <p>DRAWN BY: MS</p> <p>CHECKED BY: JMH</p> <p>DATE: AUGUST 13, 2010</p>	<p>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.</p>	<p>CROSS SECTIONS - 209+00 TO 209+48.26</p> <p>RIVERWALK MUSEUM CAMPUS</p> <p>711 NORTH MAIN STREET ROCKFORD, IL</p> <p>FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG JOB: 04-28-10-008</p>	<p>SHEET NO.</p> <p>118</p> <p>OF</p> <p>148</p>
AGENCY	DATE																
NO.	ITEM	DATE															




H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 209+68.16, 9/11/2010 2:39:40 PM, L.L. MOHTY

SHEET REVIEW	
AGENCY	DATE

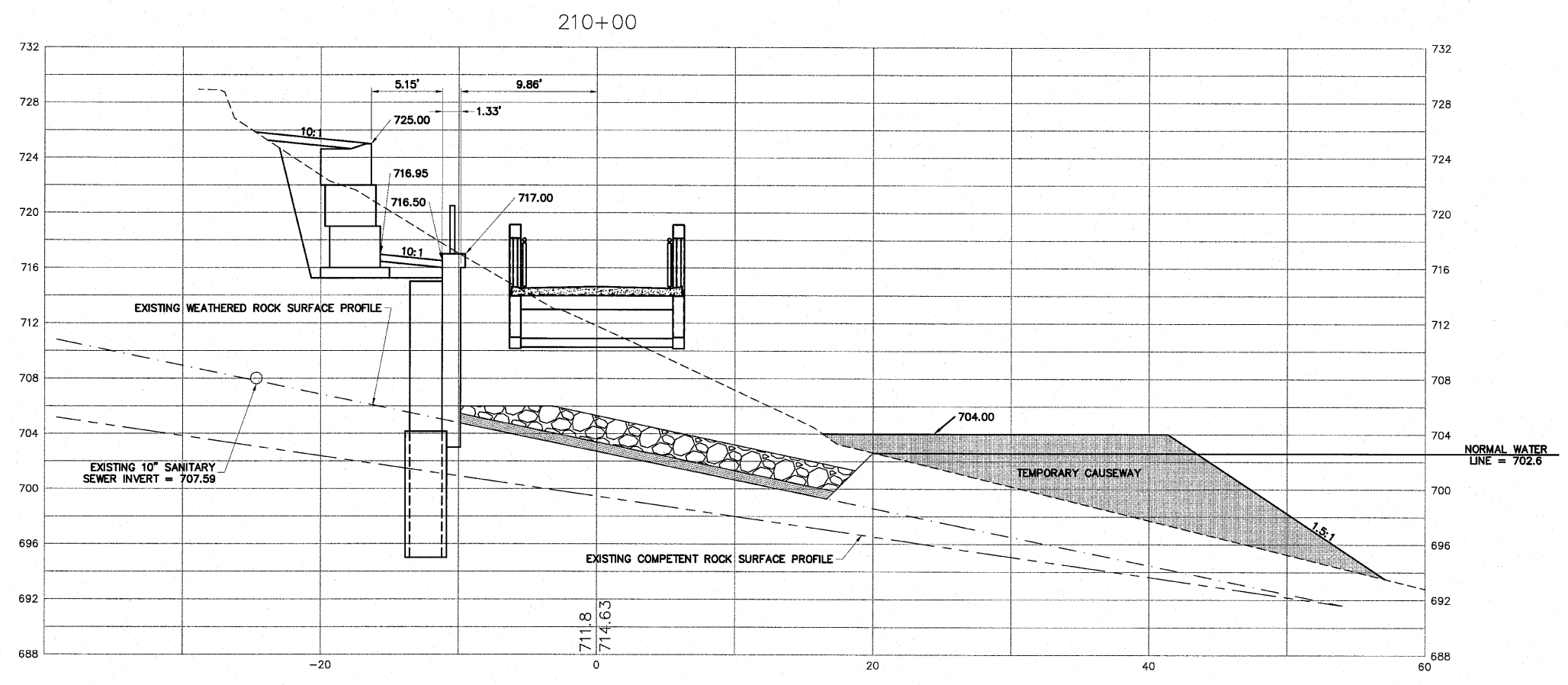
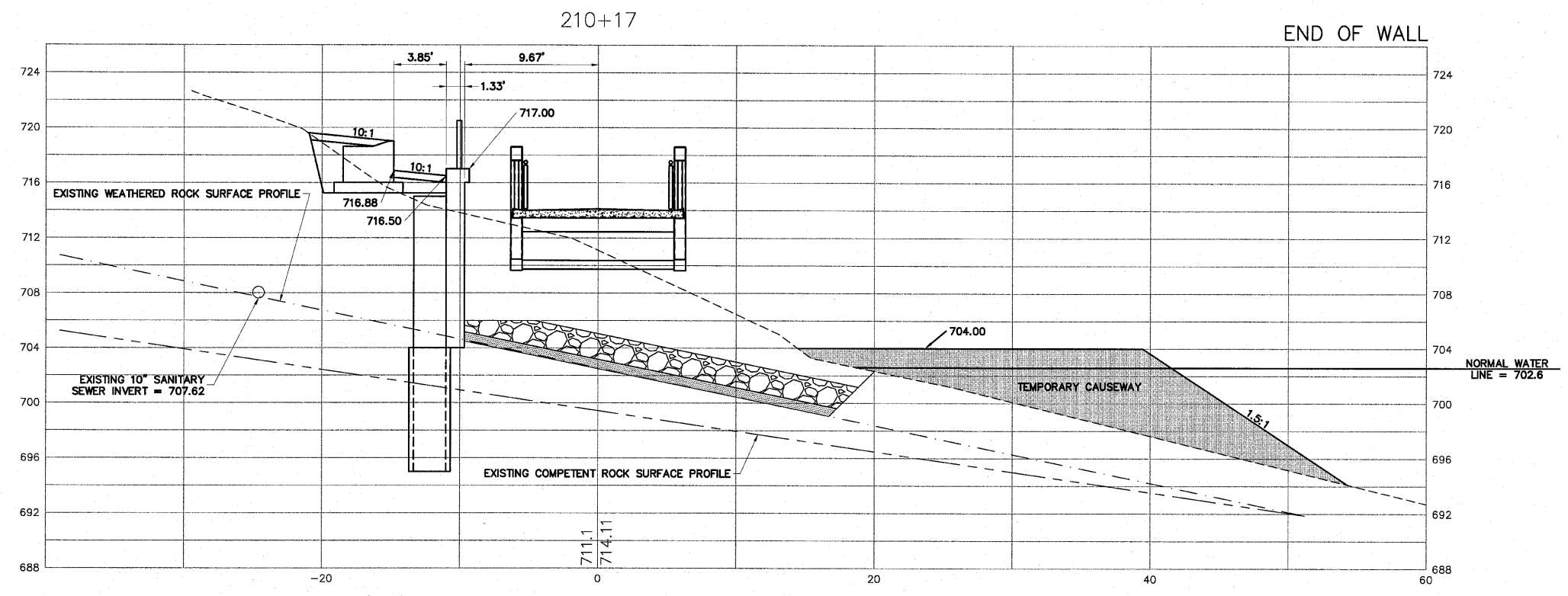
REVISIONS		
NO.	ITEM	DATE

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FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG	JOB: 04-28-10-008

SHEET NO. 119 OF 148



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 210+00 TO 210+16.98 8/1/2010 2:39:45 PM L.L. MONTY

SHEET REVIEW	
AGENCY	DATE

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SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	JMH
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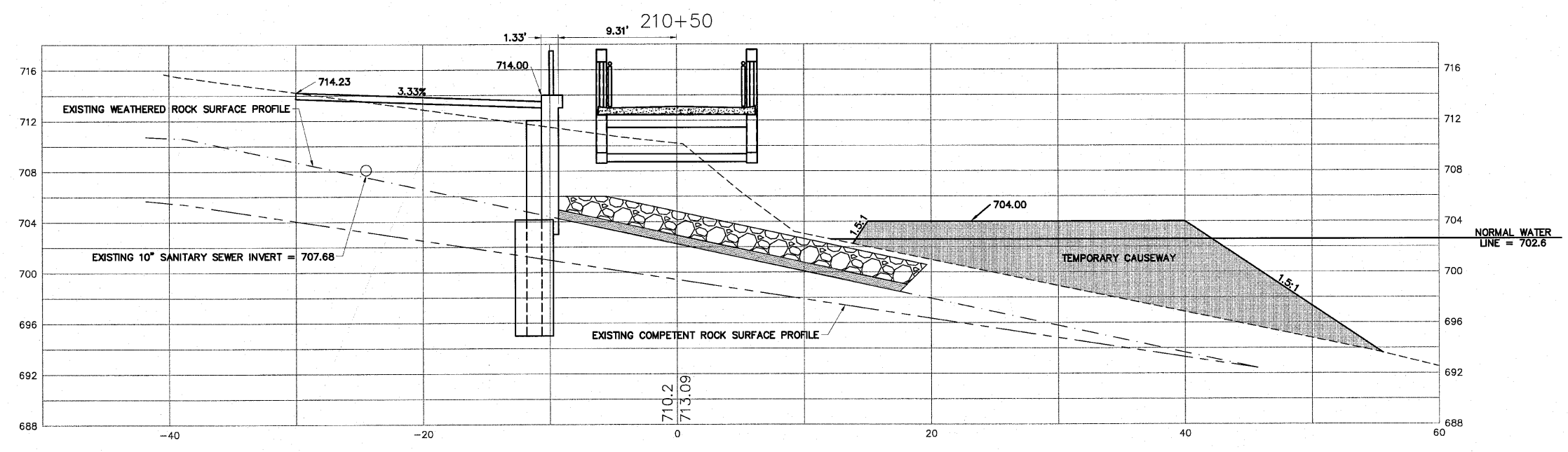
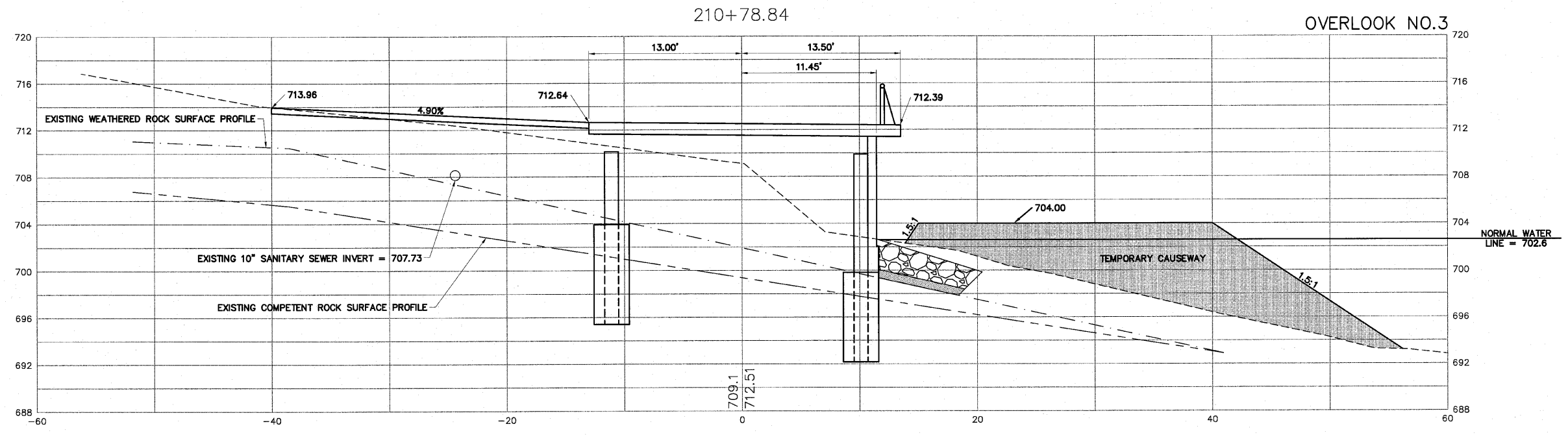
CROSS SECTIONS - 210+00 TO 210+16.98

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.	120
OF	148



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 210+50 TO 210+78.84, 9/11/2010 2:39:50 PM, H. MOY

SHEET REVIEW	
AGENCY	DATE

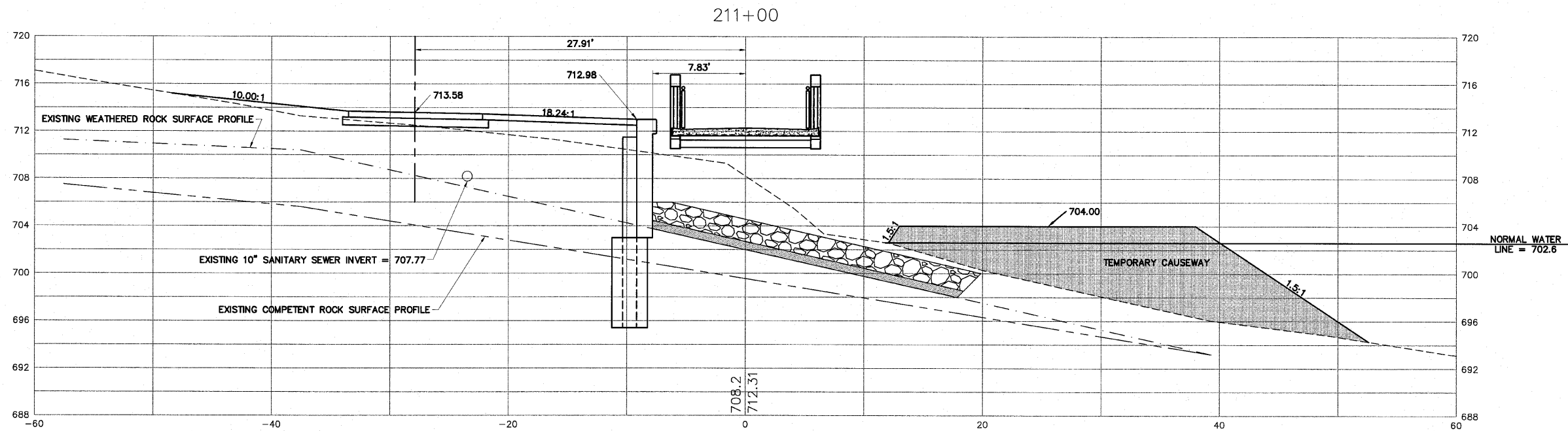
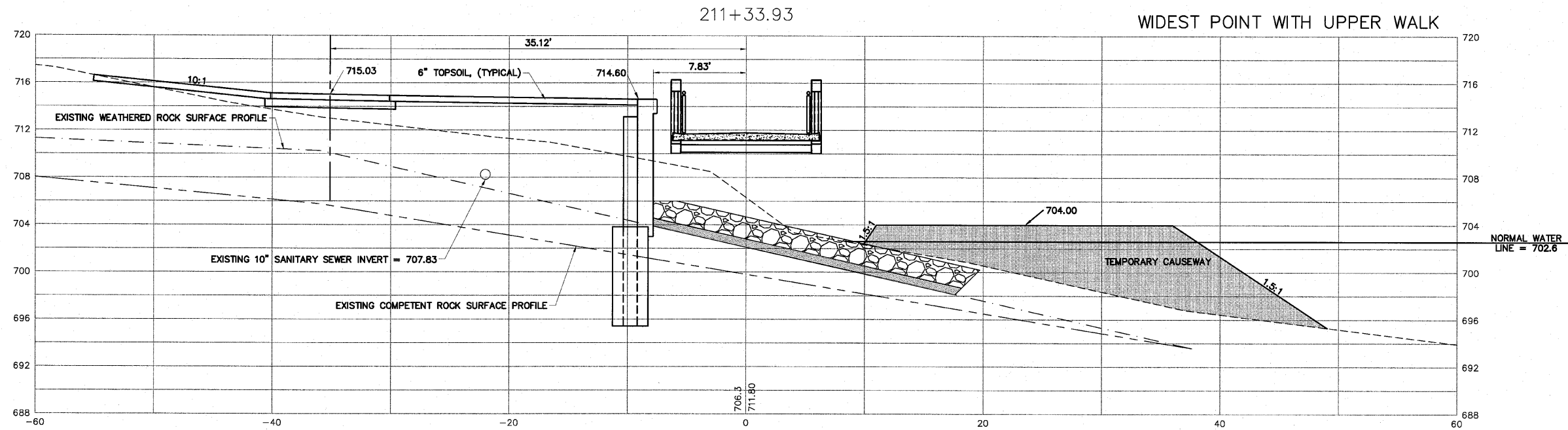
REVISIONS		
NO.	ITEM	DATE

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DATE: AUGUST 13, 2010

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FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
JOB:04-28-10-008

SHEET NO.	121
OF	148



SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE: Hor. 1"=5' Ver. 1"=5'
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CROSS SECTIONS - 211+00 TO 211+33.93

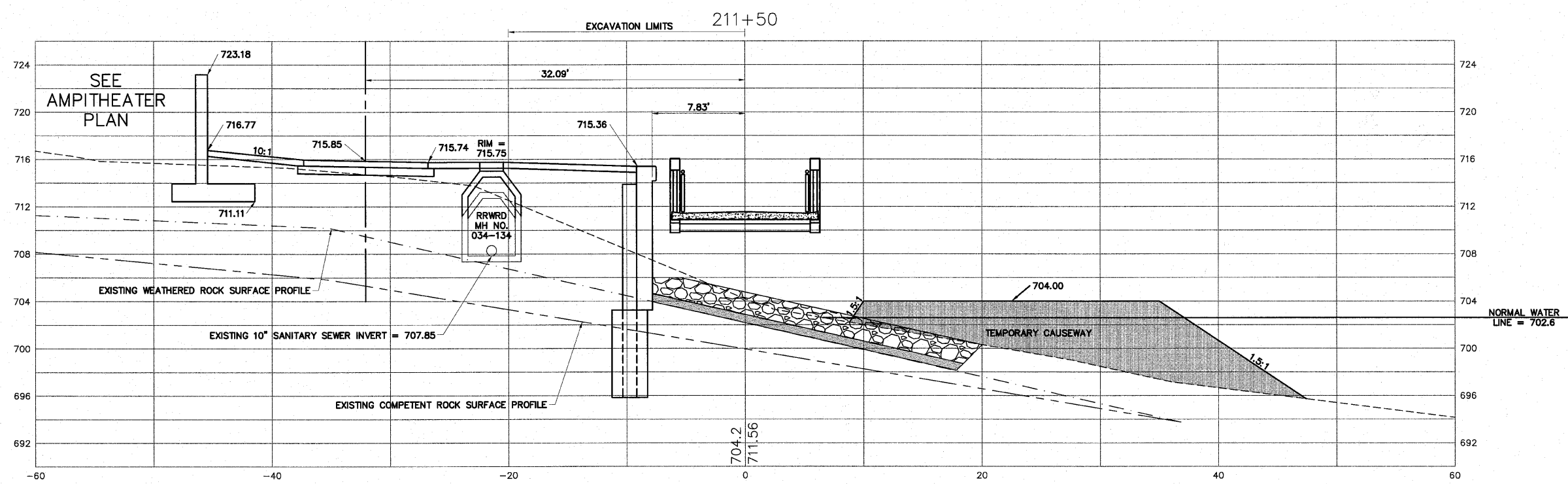
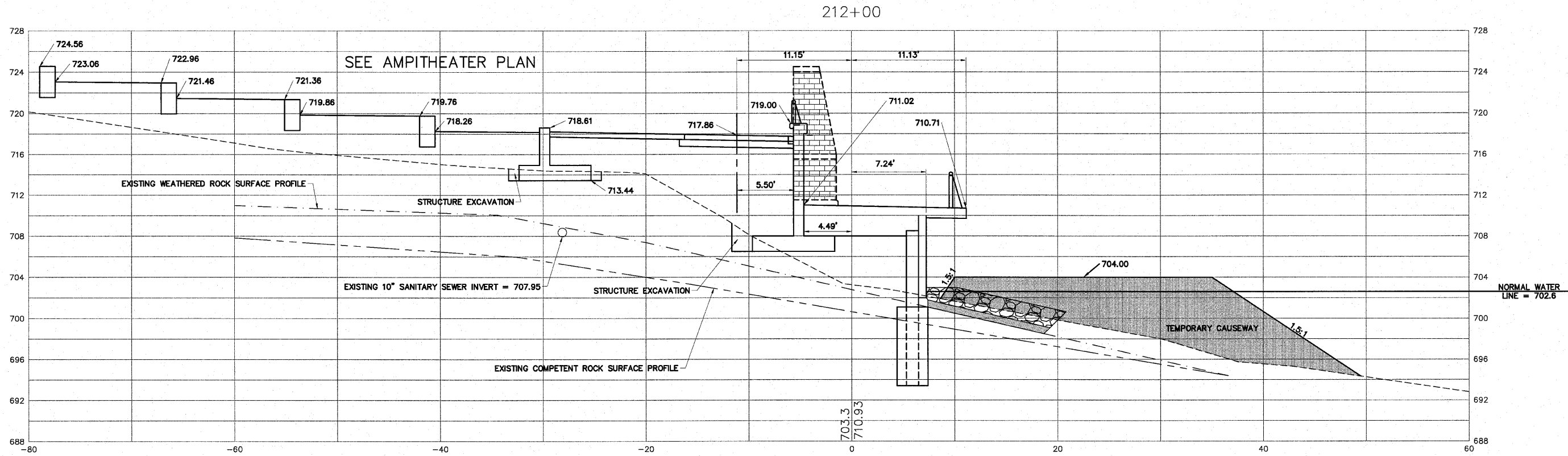
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 FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
 JOB: 04-28-10-008

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 122
 OF
 148

H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 211+00 TO 211+33.93, 9/1/2010 2:39:55 PM, J.L. MONTY

FROM STATION 211+50 TO 213+11.27 THE EARTH EXCAVATION QUANTITY STOPS AT 20 FEET LEFT OF CENTERLINE. THE EXCAVATION GREATER THAN 20 FEET LEFT IS INCLUDED IN THE 300 SERIES STATIONING QUANTITY.



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 211+50 TO 212+00, 9/7/2010 8:33:46 AM, H. MONY

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

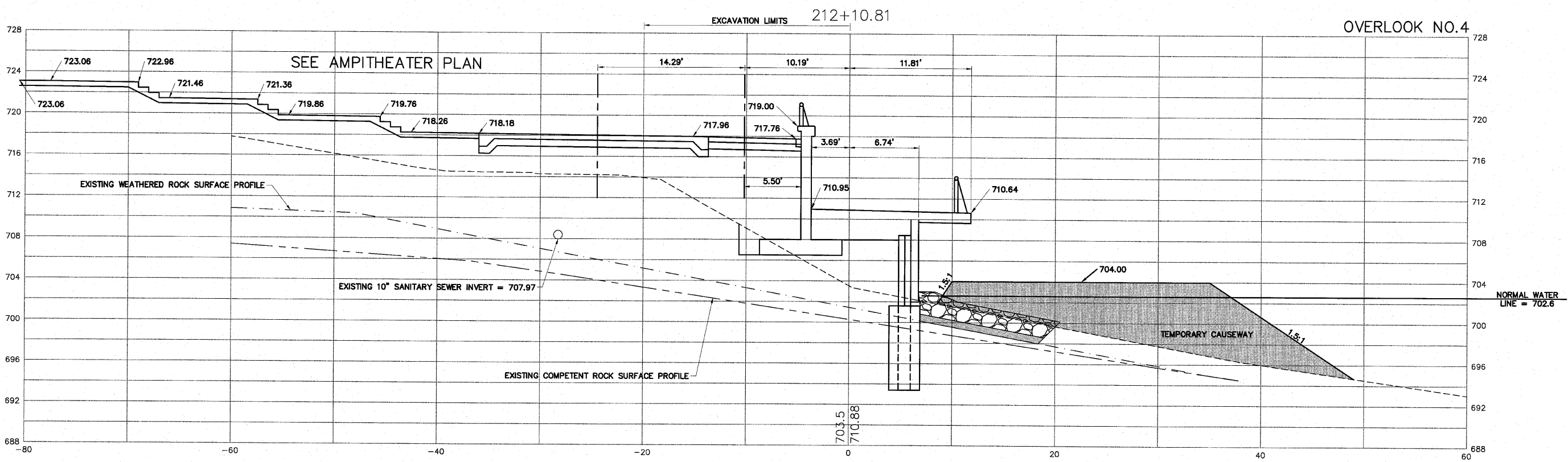
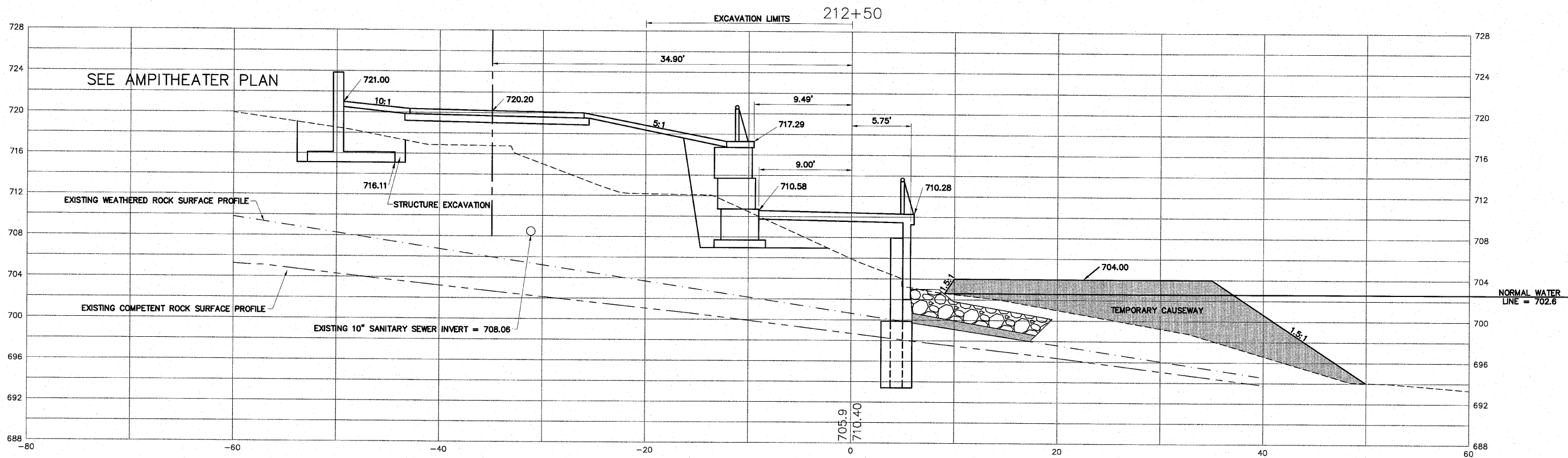
SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	JWH
DATE:	AUGUST 13, 2010

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FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
JOB: 04-28-10-008

SHEET NO.
123
OF
148



SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE: Hor. 1"=5' Ver. 1"=5'

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DATE: AUGUST 13, 2010

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CROSS SECTIONS - 212+10.81 TO 212+50

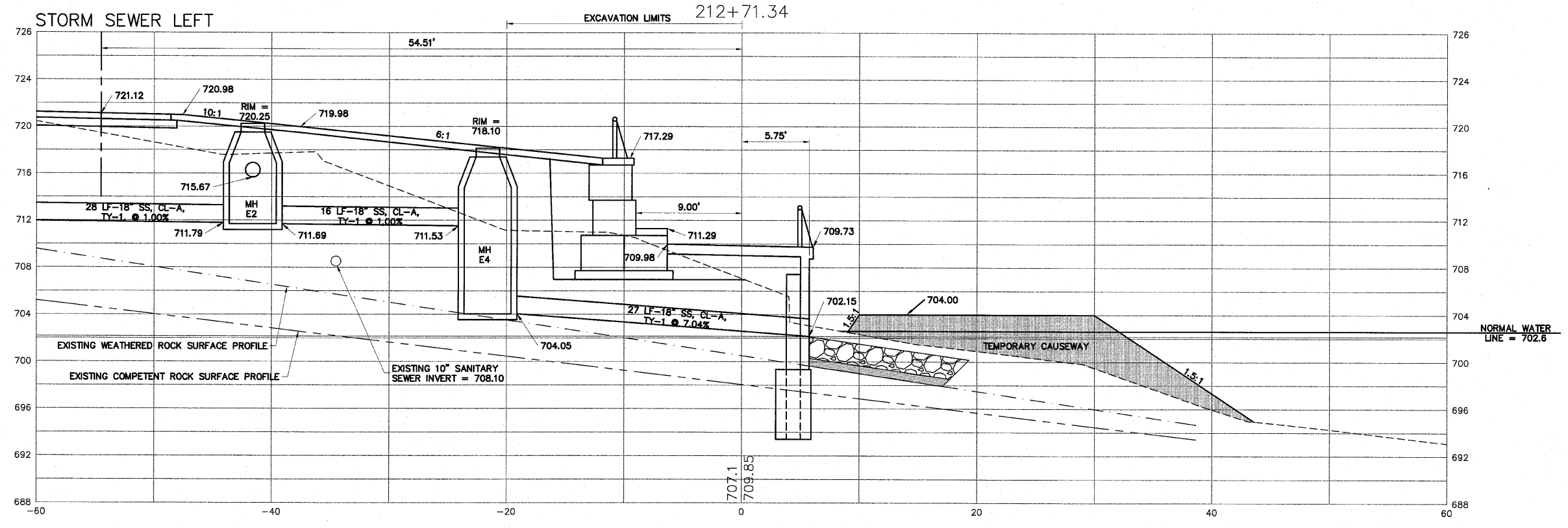
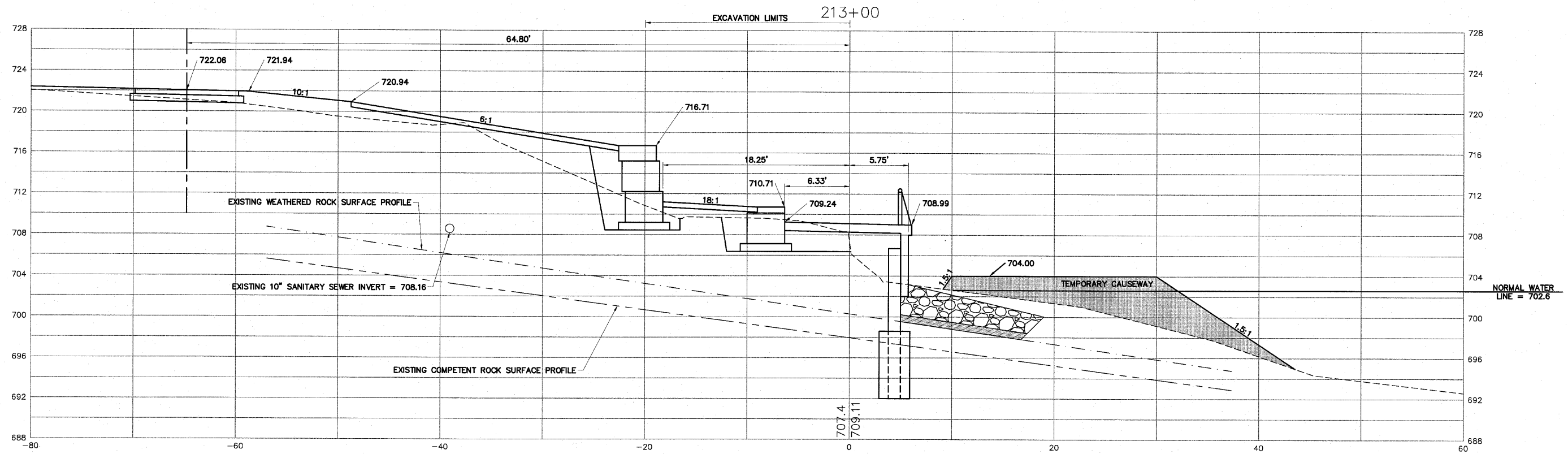
RIVERWALK MUSEUM CAMPUS

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.
124
OF
148

H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 212+10.81 TO 212+50, 9/7/2010 8:33:49 AM, L.I. MONTY



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 212+71.34 TO 213+00, 9/1/2010 2:40:29 PM, L.I. MONTY

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	Hor. 1"=5' Ver. 1"=5'
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FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
JOB:04-28-10-008

SHEET NO.
125
OF
148

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

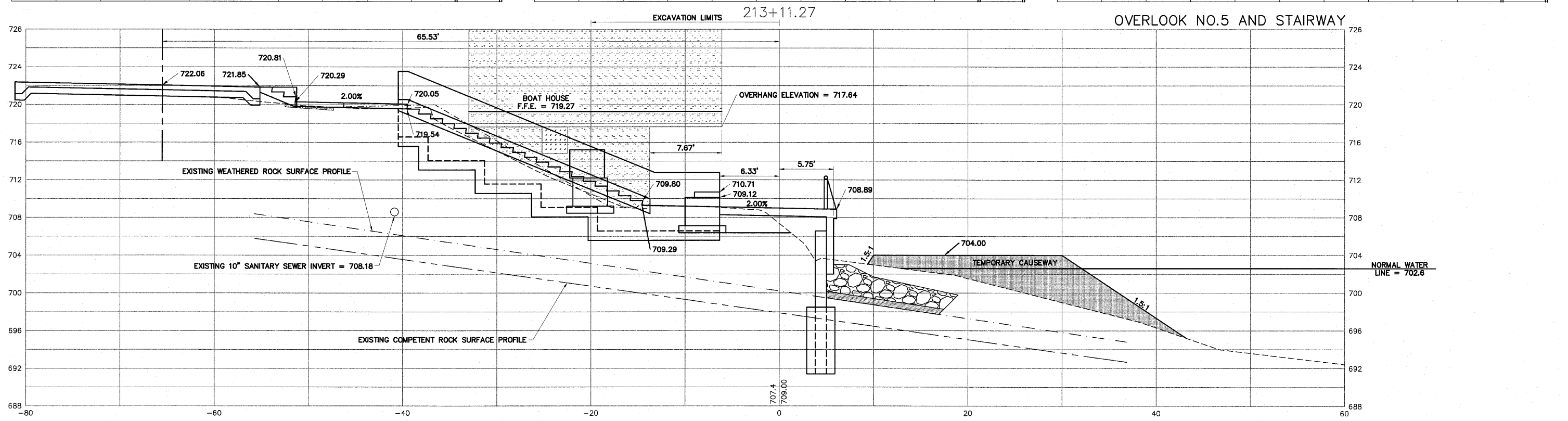
Station	Distance Between Stations (ft.)	Cut End Area (s.f.)	Cut Average End Area (s.f.)	Cut Volume (c.y.)	Cumulative Cut Volume (c.y.)	Fill End Area (s.f.)	Fill Average End Area (s.f.)	Fill Volume (c.y.)	Cumulative Fill Volume (c.y.)	Cumulative C&F Volume (c.y.)
200+04		0				0				
200+50	46	56	28	48	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

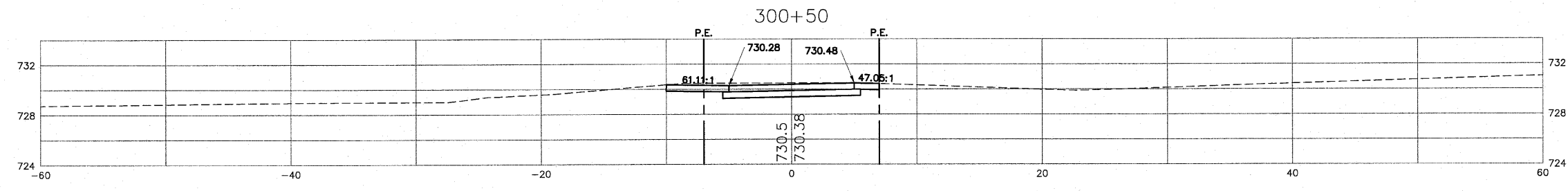
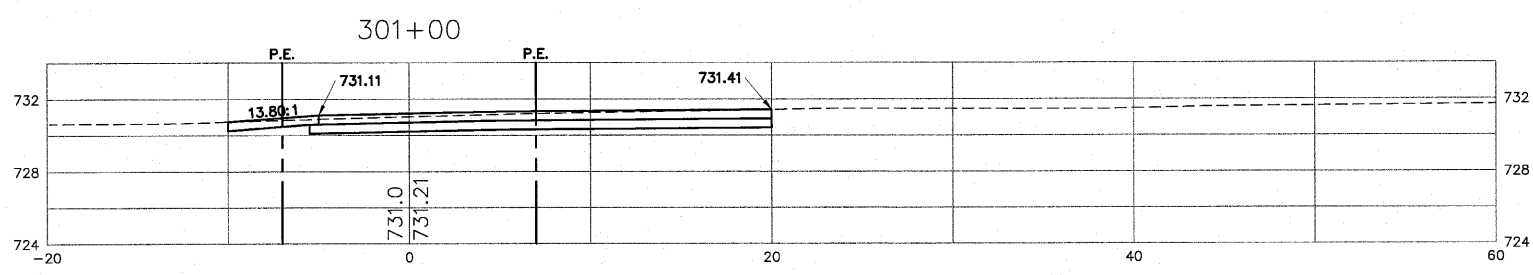
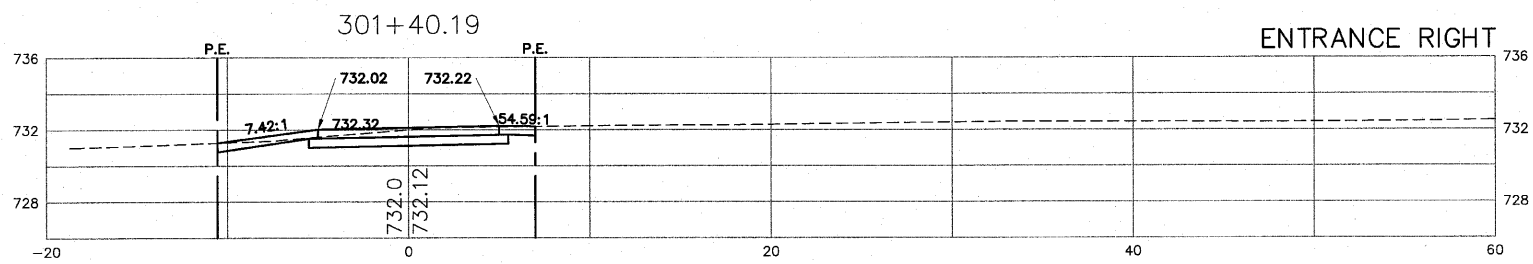
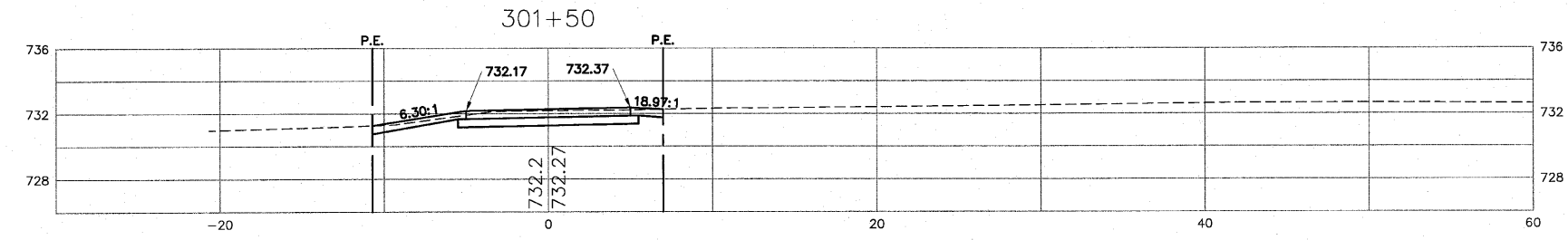
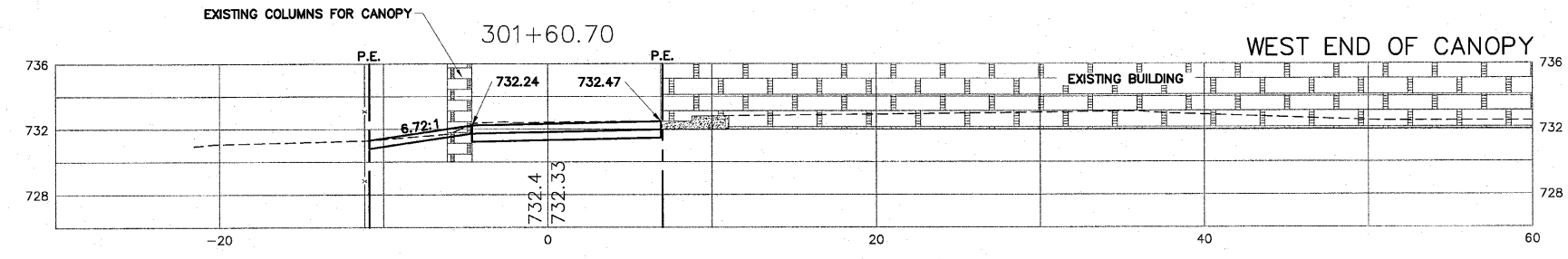
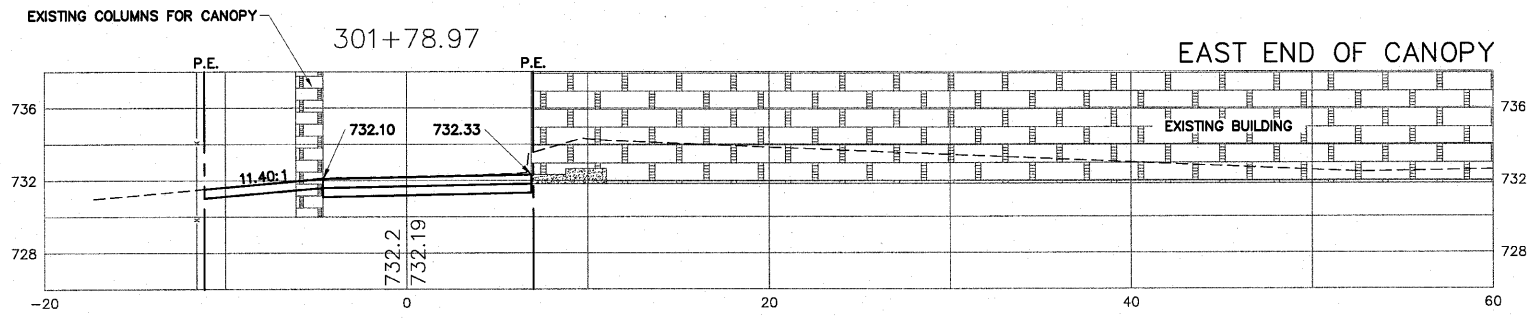
GRANULAR EMBANKMENT (SPECIAL) WORKSHEET

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



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

SHEET REVIEW AGENCY: _____ DATE: _____		REVISIONS <table border="1"> <tr><th>NO.</th><th>ITEM</th><th>DATE</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		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
NO.	ITEM	DATE														



H:\08-008 RIVERWALK MUSEUM\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 300+50 TO 301+78.97, 9/1/2010 2:40:50 PM, H. MOY

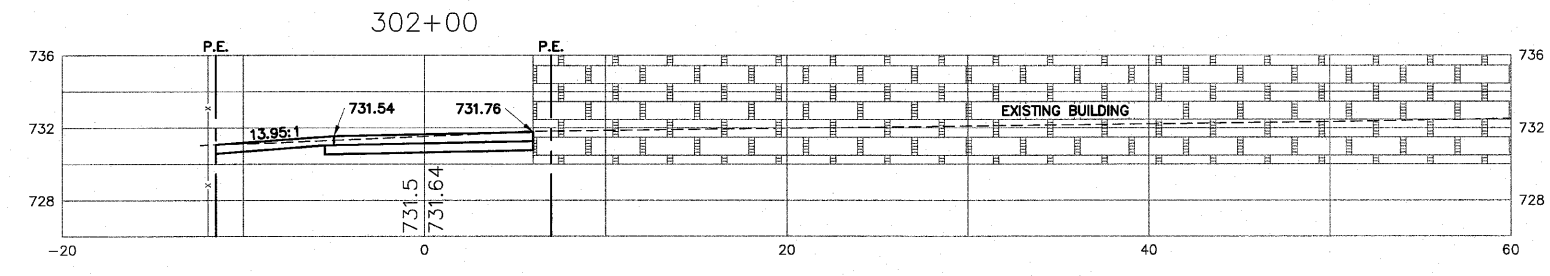
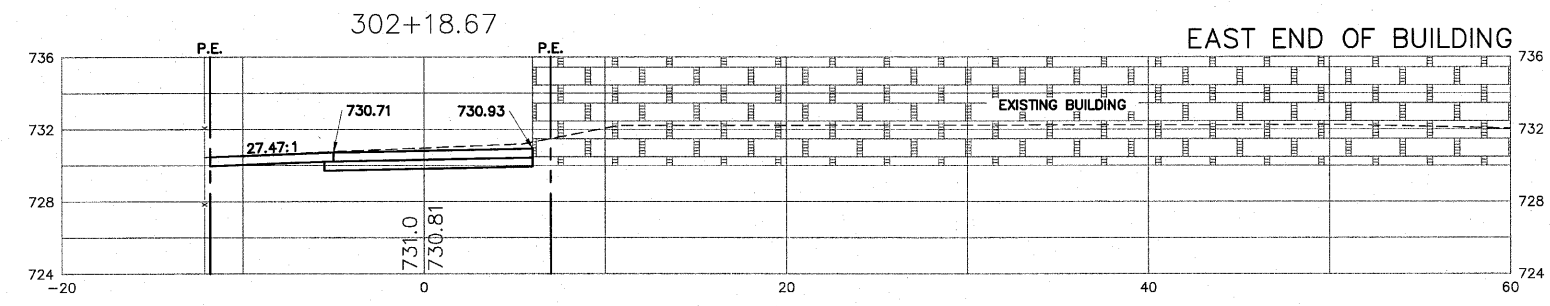
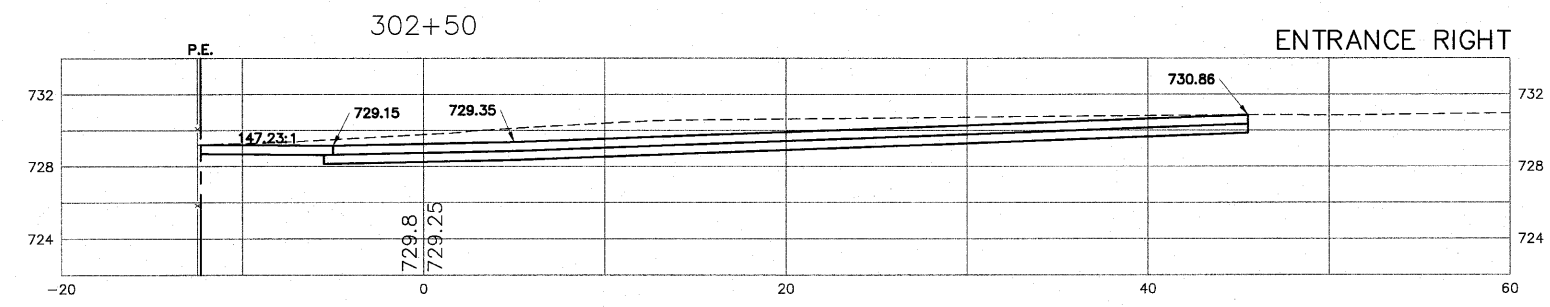
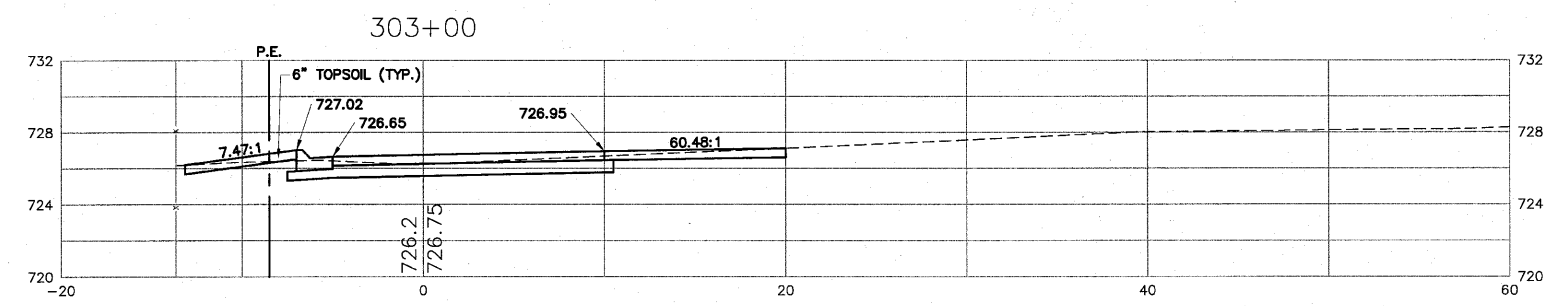
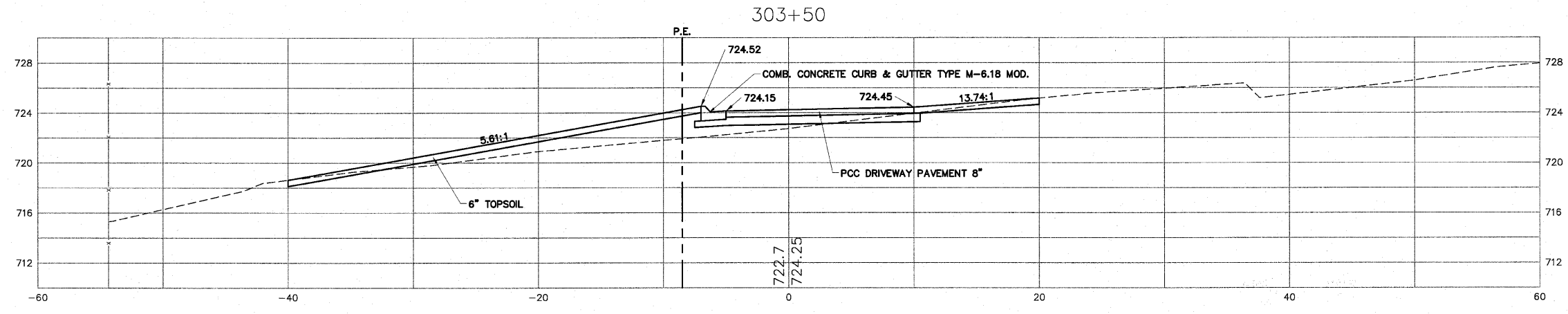
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

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CROSS SECTIONS - 300+50 TO 301+78.97
RIVERWALK MUSEUM CAMPUS
711 NORTH MAIN STREET ROCKFORD, IL
FILE:H:\08-008 RIVERWALK MUSEUM\DRAWINGS\08-008 XSEC FINAL.DWG JOB:04-28-10-008



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 302+00 TO 303+50, 9/1/2010 2:40:55 PM, J.L. MONY

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

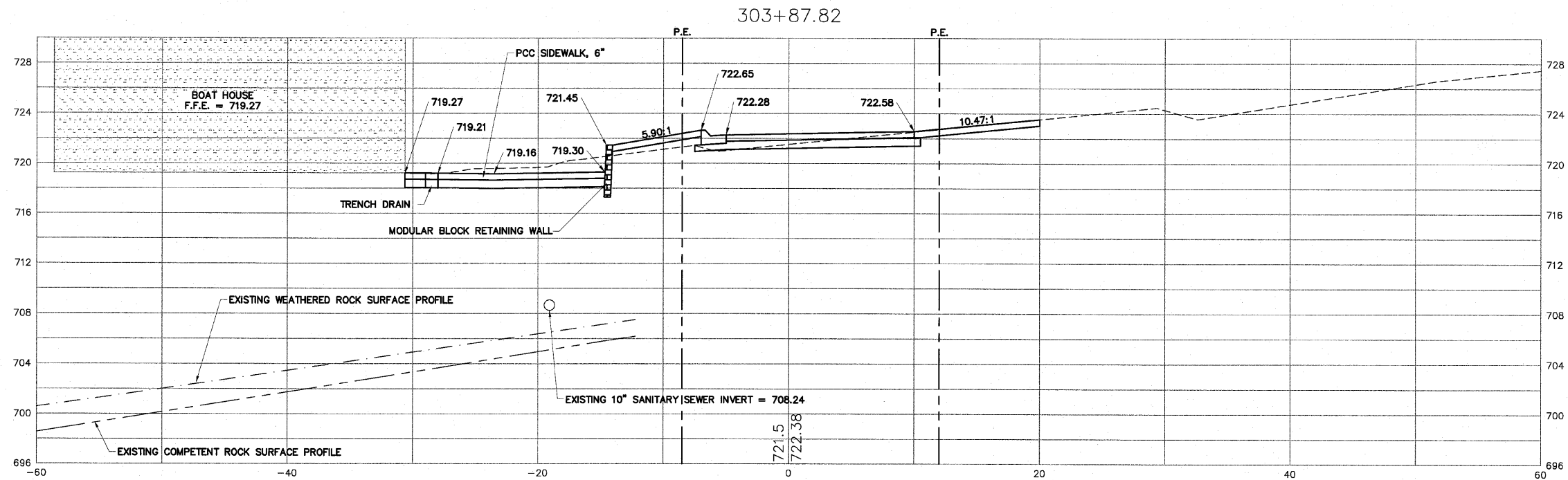
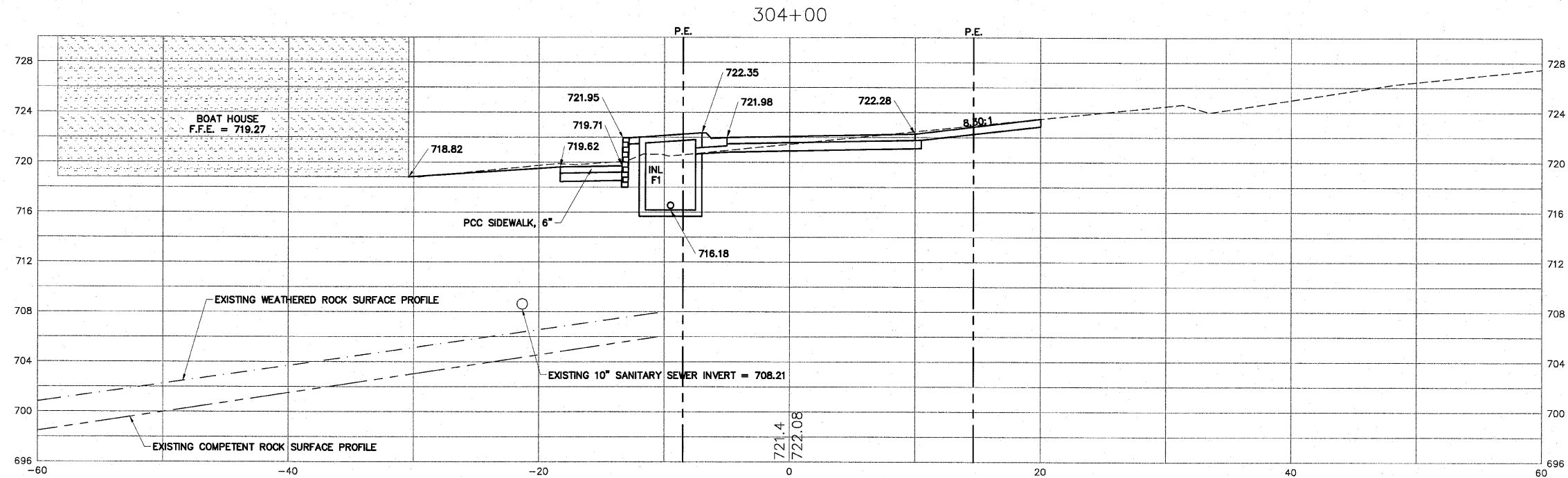
SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

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CROSS SECTIONS - 302+00 TO 303+50
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.
128
OF
148



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 303+87.82 TO 304+00, 9/1/2010 2:41:00 PM, J.H. MONTY

SHEET REVIEW	
AGENCY	DATE

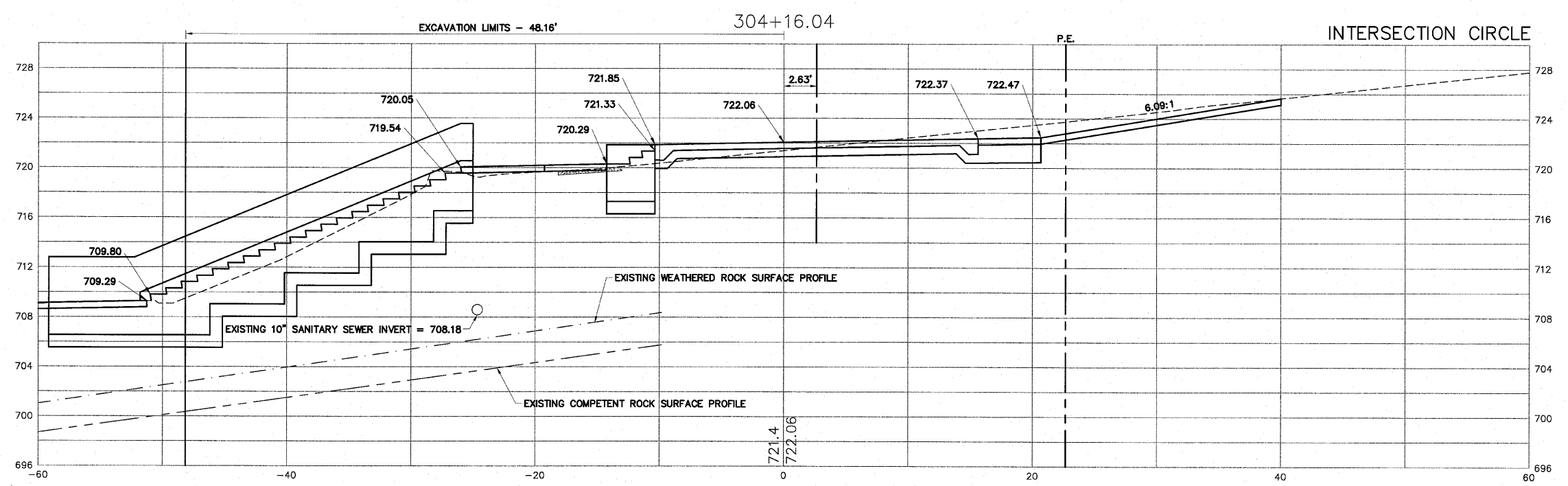
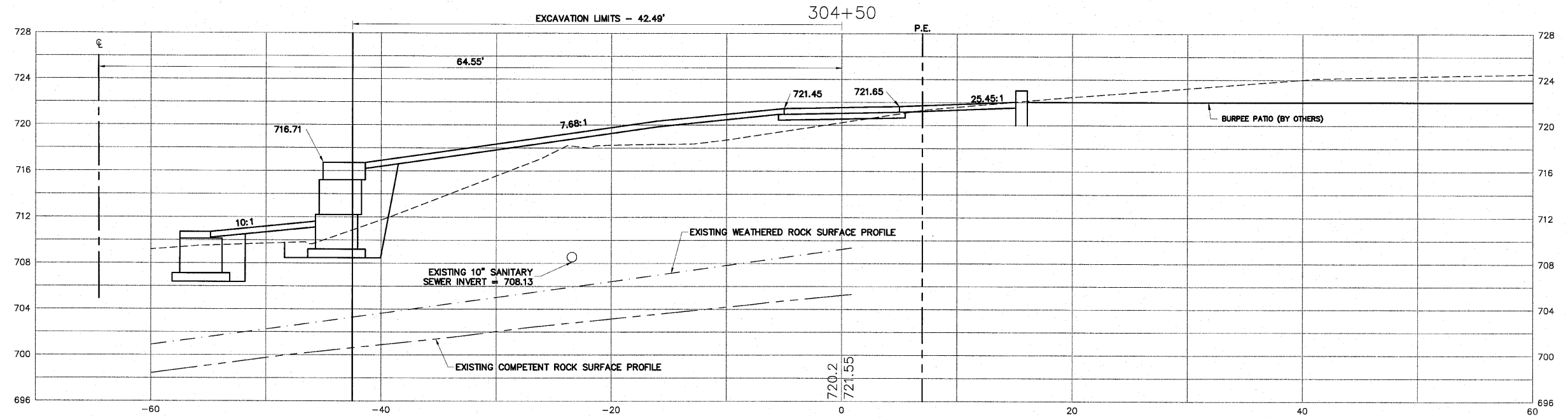
REVISIONS		
NO.	ITEM	DATE

SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	JWH
DATE:	AUGUST 13, 2010

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CROSS SECTIONS - 303+87.82 TO 304+00
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



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 304+16.04 TO 304+50, 9/11/2010 2:41:05 PM, L.L. MONTY

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

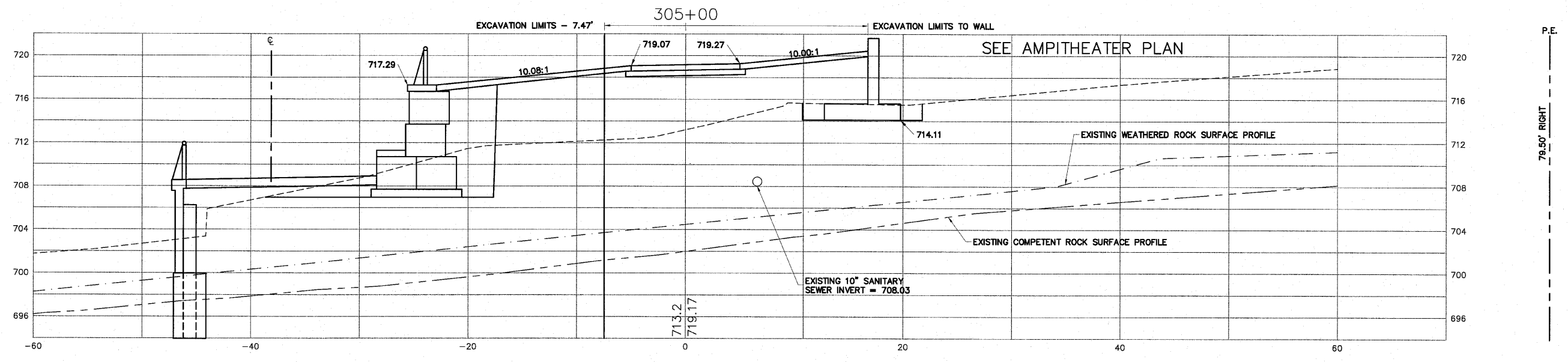
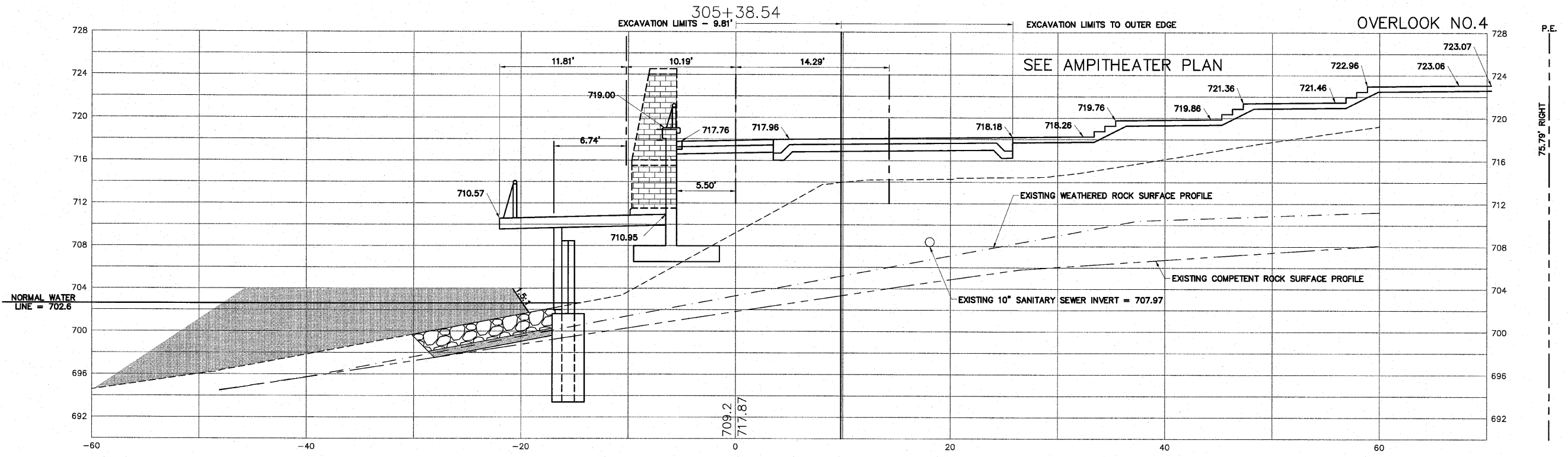
SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

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CROSS SECTIONS - 304+16.04 TO 304+50
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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.
130
OF
148



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG. CROSS SECTIONS - 305+00 TO 305+38.54. 9/7/2010 8:33:54 AM. J.L. MONTY

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

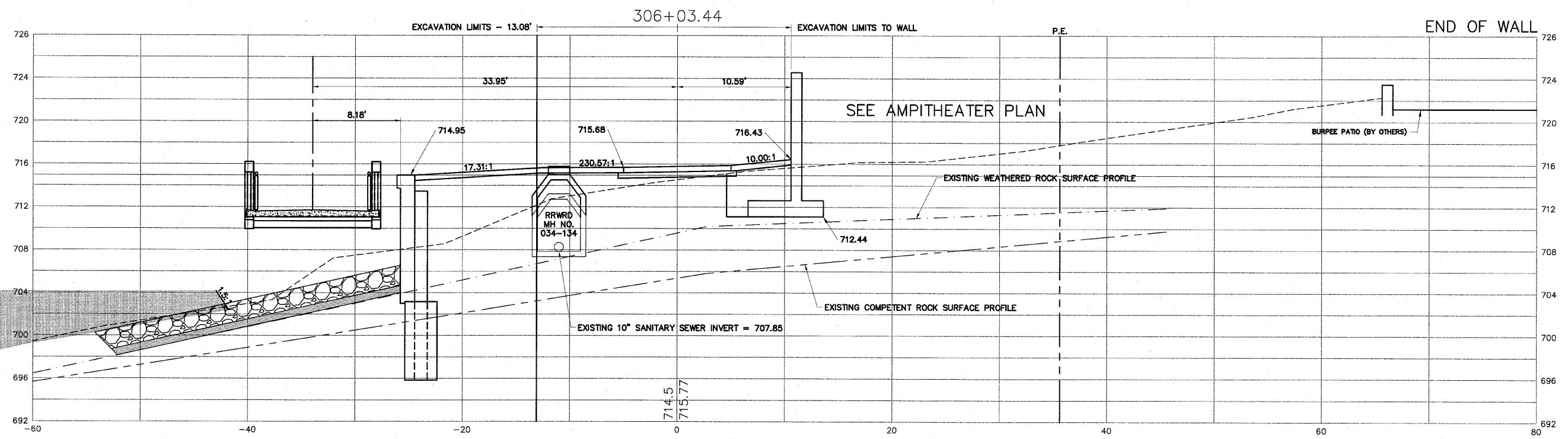
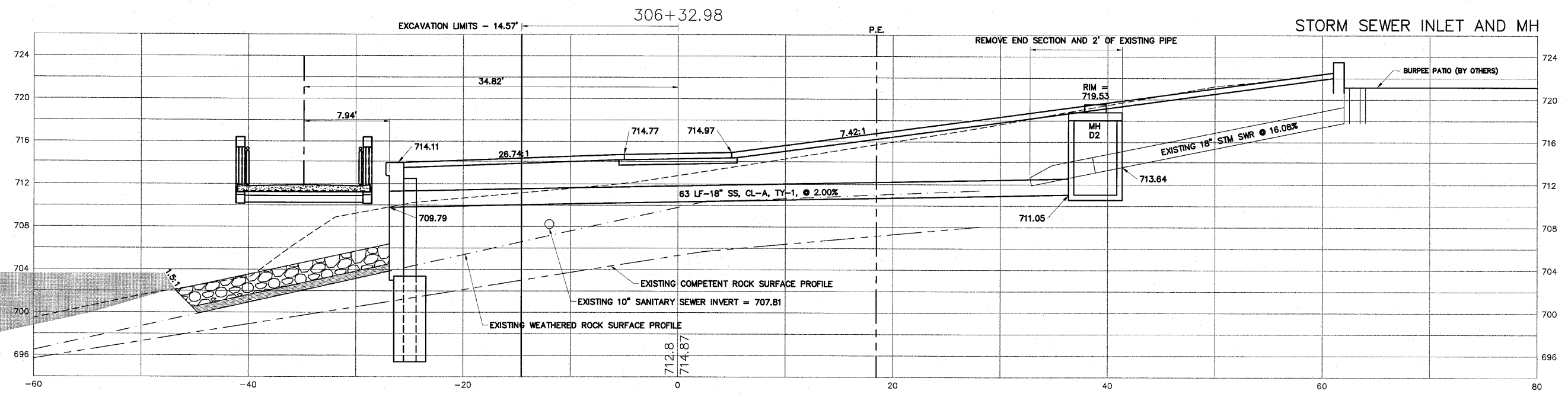
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DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

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CROSS SECTIONS - 305+00 TO 305+38.54
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 ROCKFORD, IL
 FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
 JOB:04-28-10-008

SHEET NO.
132
 OF
148



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

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CROSS SECTIONS - 306+03.44 TO 306+32.98

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.
133
OF
148

H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 306+03.44 TO 306+32.98, 9/1/2010 2:41:20 PM, E.L. MONTY

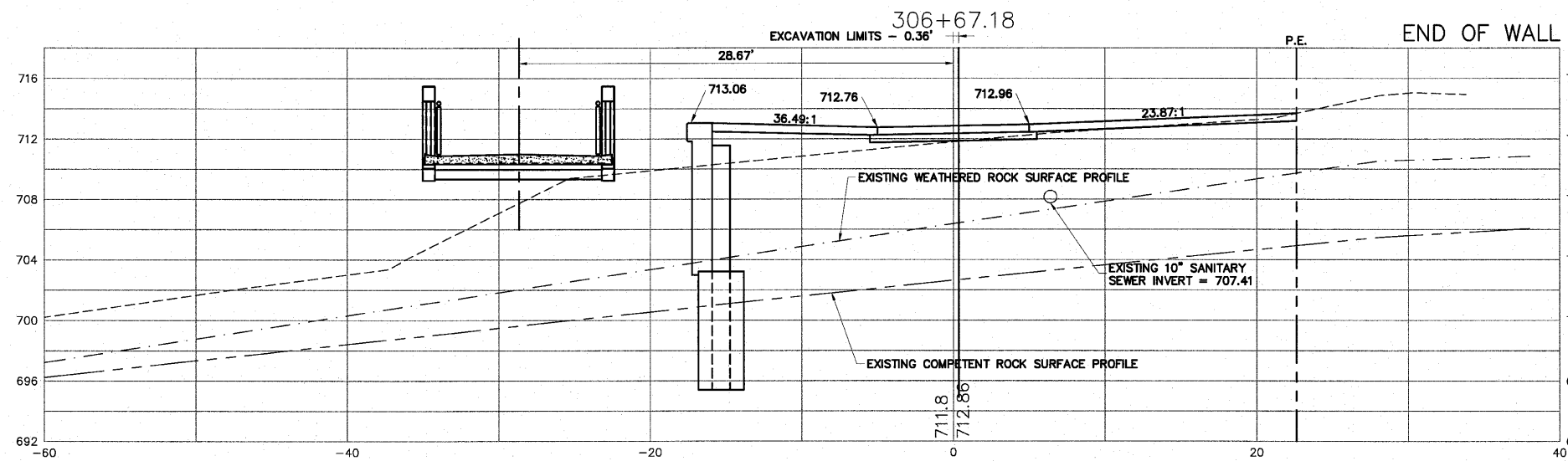
EARTH EXCAVATION WORKSHEET

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.)
300+04		0				0				
300+50	46	16	8	14	14	0	0	0	0	14
301+00	50	24	20	37	51	0	0	0	0	51
301+40	40	11	18	26	77	0	0	0	0	77
301+50	10	12	12	4	81	0	0	0	0	81
301+61	11	15	14	5	86	0	0	0	0	86
301+79	18	16	16	10	97	0	0	0	0	97
302+00	21	13	15	11	108	0	0	0	0	108
302+19	19	17	15	10	118	0	0	0	0	118
302+50	31	83	50	58	176	0	0	0	0	176
303+00	50	19	51	94	271	0	0	0	0	271
303+50	50	8	14	25	296	28	14	26	26	270
303+88	38	13	11	15	311	3	16	22	48	263
304+00	12	29	21	9	320	1	2	1	49	272
304+16	16	72	51	30	350	2	2	1	49	301
304+50	34	11	42	52	402	76	39	49	98	304
304+69	19	8	10	7	409	130	103	71	169	240
304+72	4	0	4	1	409	124	127	18	187	222
305+00	28	0	0	0	409	9	67	68	255	154
305+39	39	0	0	0	409	41	25	36	291	118
306+03	65	0	0	0	409	46	44	105	395	14
306+33	30	12	6	7	416	48	47	51	447	31
306+67	34	3	8	10	425	1	25	31	478	52
306+75	8	0	2	0	426	0	0	0	478	52

THERE IS NO FURNISHED EXCAVATION QUANTITY IN THE 300 SERIES STATIONING

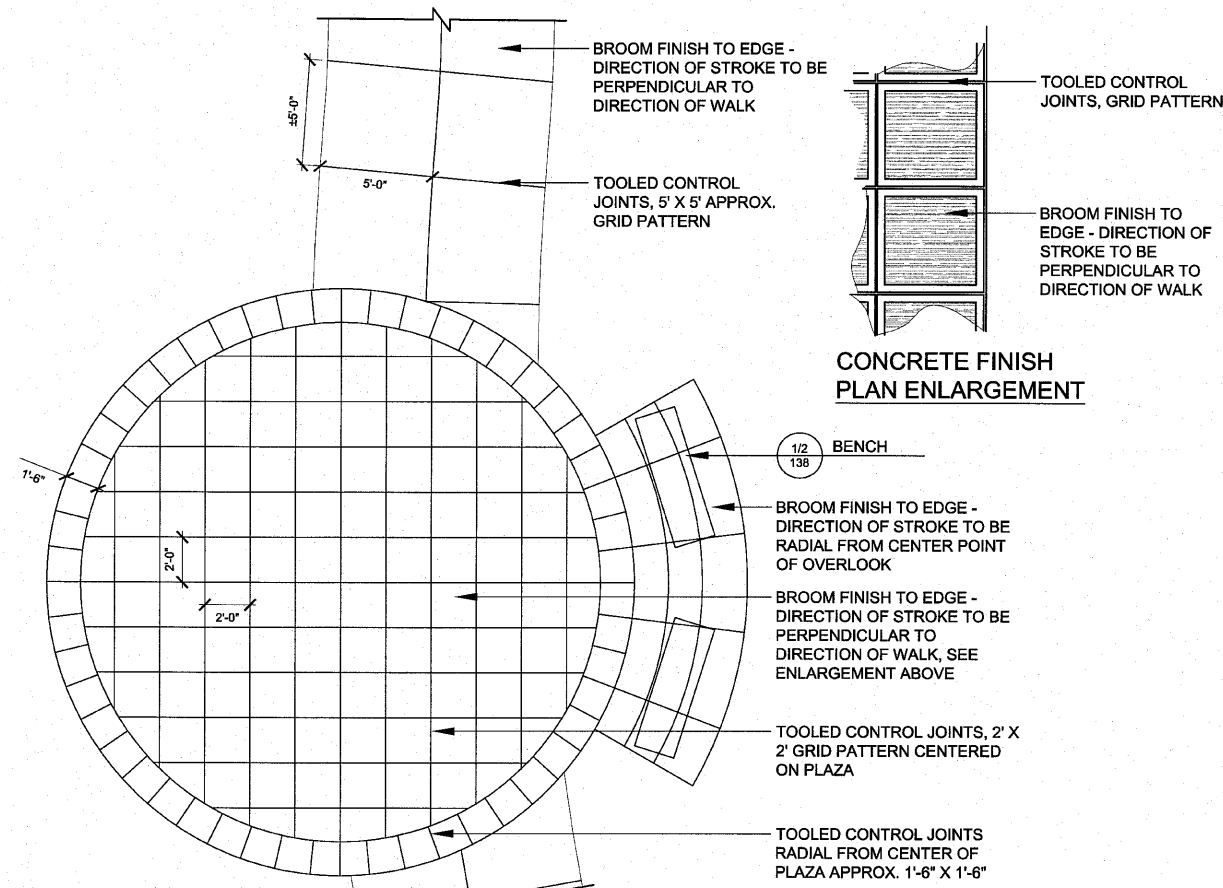
POROUS GRANULAR EMBANKMENT WORKSHEET

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.)
300+04		0				0				
300+50	46	0	0	0	0	0	0	0	0	0
301+00	50	0	0	0	0	0	0	0	0	0
301+40	40	0	0	0	0	0	0	0	0	0
301+50	10	0	0	0	0	0	0	0	0	0
301+61	11	0	0	0	0	0	0	0	0	0
301+79	18	0	0	0	0	0	0	0	0	0
302+00	21	0	0	0	0	0	0	0	0	0
302+19	19	0	0	0	0	0	0	0	0	0
302+50	31	0	0	0	0	0	0	0	0	0
303+00	50	0	0	0	0	0	0	0	0	0
303+50	50	0	0	0	0	0	0	0	0	0
303+88	38	0	0	0	0	0	0	0	0	0
304+00	12	0	0	0	0	0	0	0	0	0
304+16	16	0	0	0	0	0	0	0	0	0
304+50	34	0	0	0	0	22	11	14	14	14
304+69	19	0	0	0	0	17	20	13	27	27
304+72	4	0	0	0	0	9	1	28	28	28
305+00	28	0	0	0	0	0	0	0	28	28
305+39	39	0	0	0	0	0	0	0	28	28
306+03	65	0	0	0	0	0	0	0	28	28
306+33	30	0	0	0	0	0	0	0	28	28
306+67	34	0	0	0	0	0	0	0	28	28
306+75	8	0	0	0	0	0	0	0	28	28



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG, CROSS SECTIONS - 306+67.18, 9/11/2010 3:05:17 PM, J.H.

	SHEET REVIEW <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>AGENCY</th><th>DATE</th></tr> <tr><td> </td><td> </td></tr> </table>	AGENCY	DATE			REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NO.</th><th>ITEM</th><th>DATE</th></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	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 - 306+67.18 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. 134 OF 148
AGENCY	DATE															
NO.	ITEM	DATE														



1 OVERLOOK PAVEMENT ENLARGEMENT
 Scale: 1/4" = 1'-0"
 d-enrg-pavement

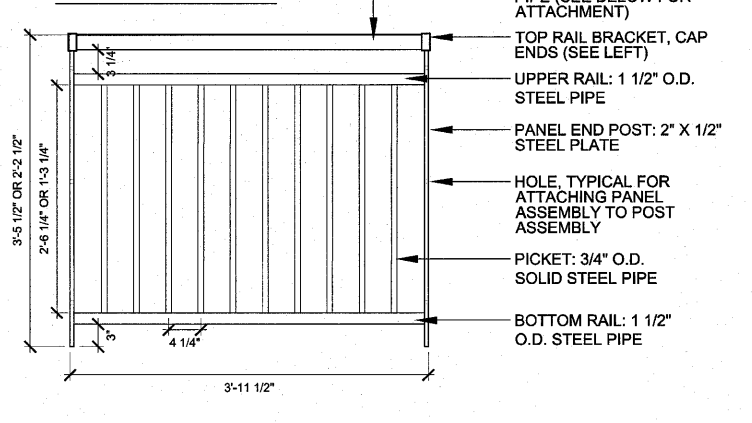
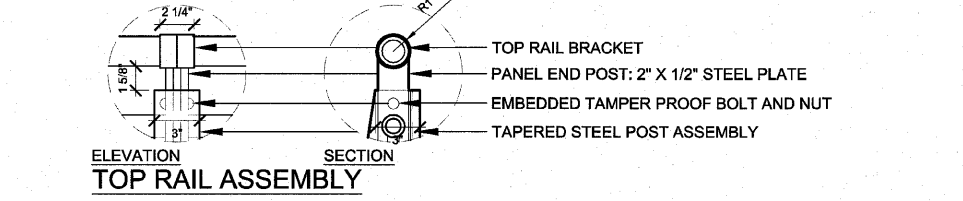
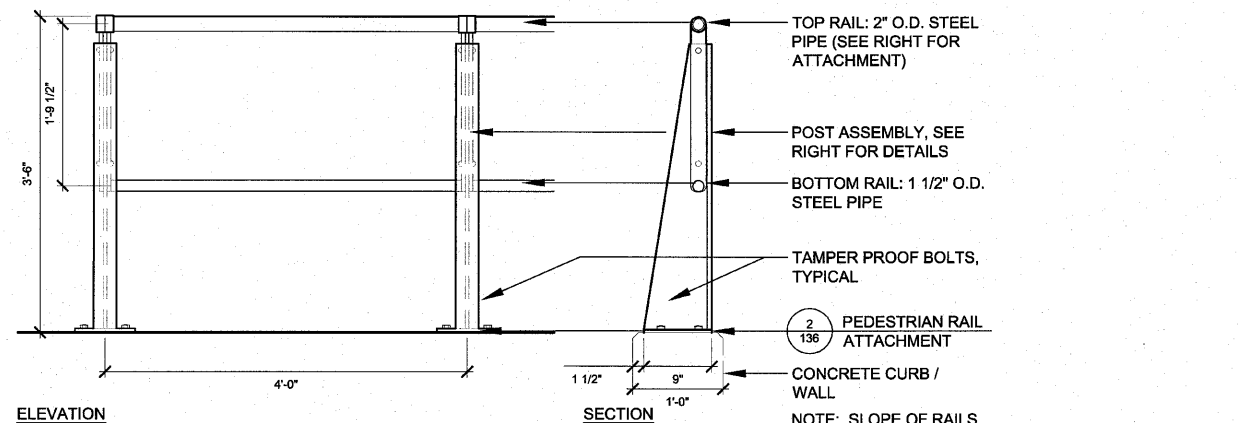
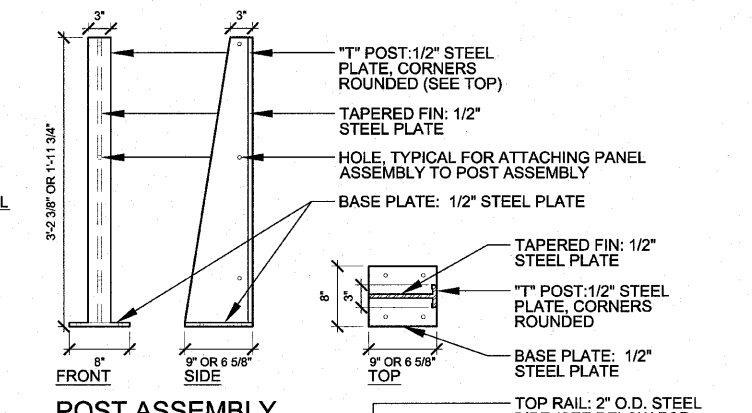
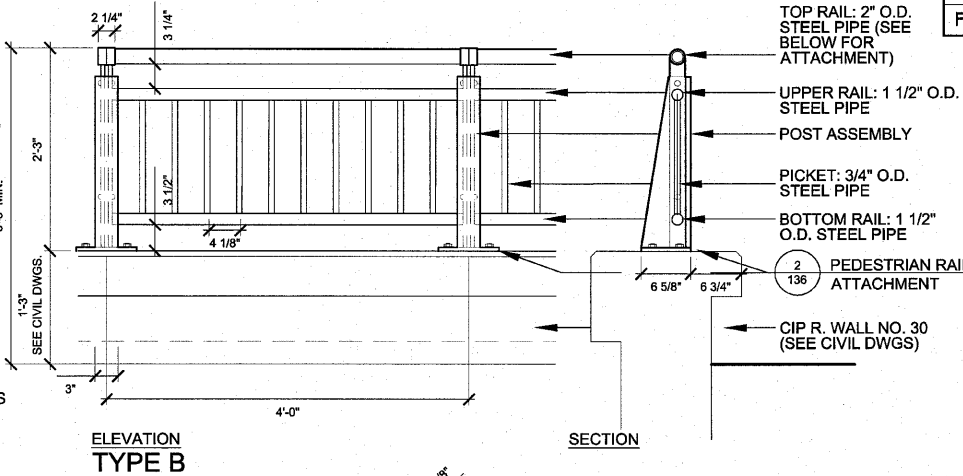
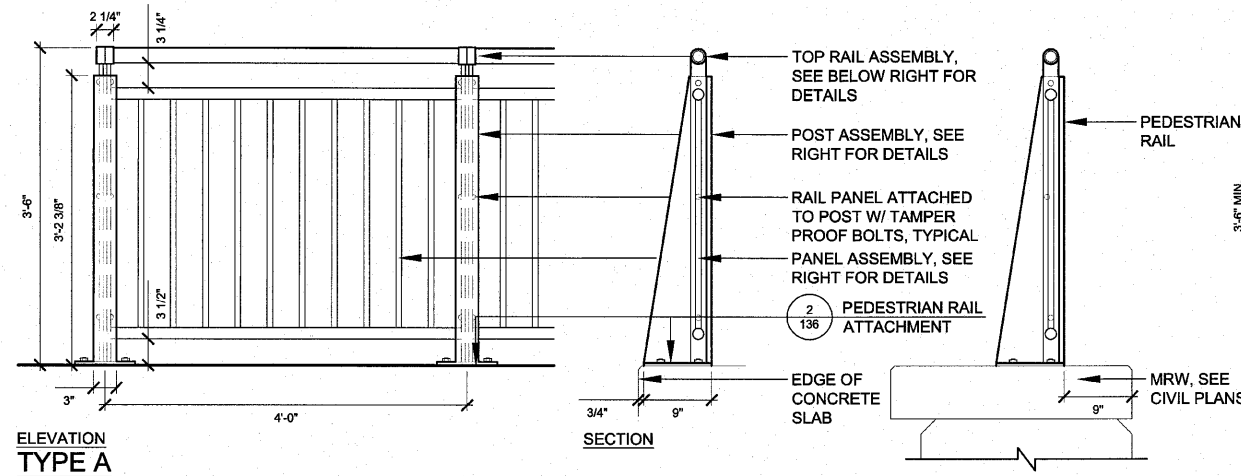
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	AS SHOWN
DRAWN BY:	MAF
CHECKED BY:	TCK
DATE:	9/3/2010

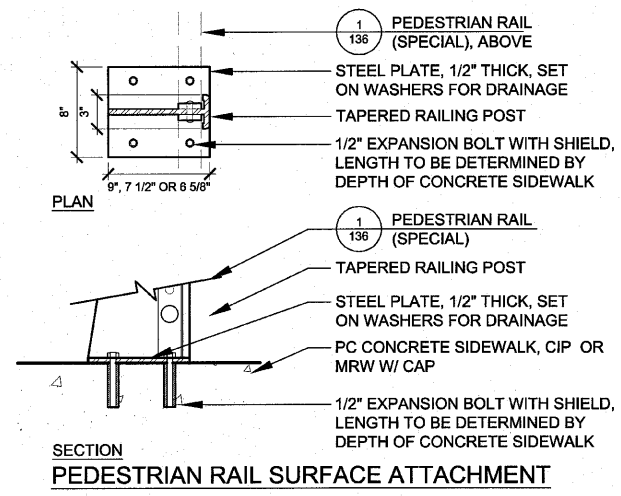
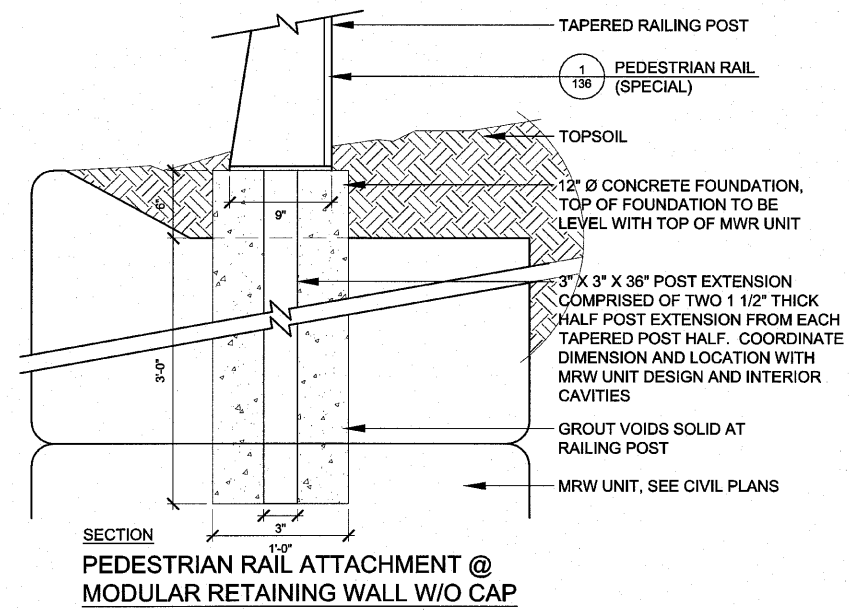
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PAVING DETAILS
 RIVERWALK MUSEUM CAMPUS
 711 NORTH MAIN STREET ROCKFORD, IL
 FILE: JOB: 04-28-10-008

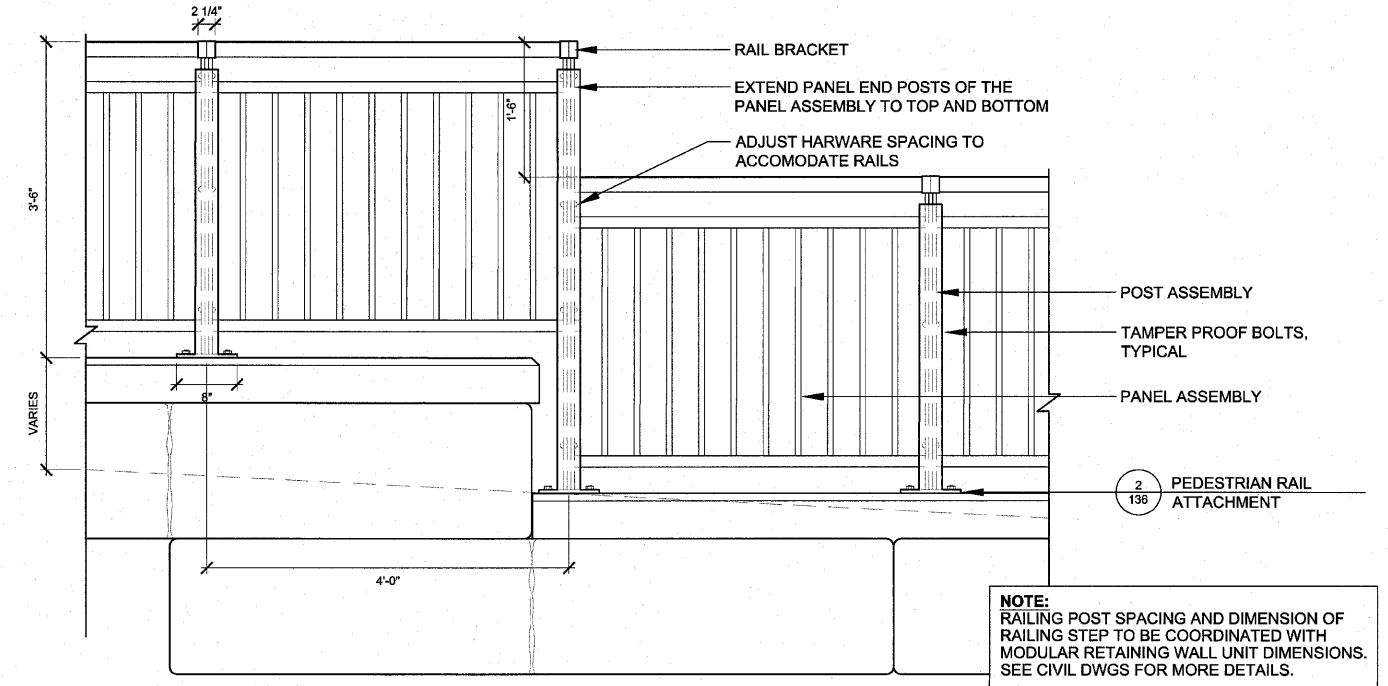


- NOTES:**
- HEIGHT OF RAIL TO BE 42" MIN. AND MAXIMUM SPACE BETWEEN PICKETS, POSTS OR RAILS IS 3 1/2".
 - RAILING PANELS TO BE STRAIGHT SEGMENTS UNLESS NOTED OTHERWISE. RADIAL RAILING PANELS TO FOLLOW THE RADII OF ADJACENT WALLS, WALKS, ETC (SEE CIVIL DWGS FOR LAYOUT).
 - POSTS AND PICKETS TO BE PLUMB AND TRUE. PANEL ASSEMBLY TO BE RACKED IN AREAS WHERE THE RAILING IS TO FOLLOW THE GRADE (SEE MATERIAL CALLOUT PLAN FOR LOCATIONS).
 - ALL RAILING MATERIALS TO BE STEEL. WELD POST AND PANEL ASSEMBLIES TOGETHER (I.E. POST TO BASE PLATE, PICKETS TO RAILS W/ TERMINAL ENDS CAPS). THOROUGHLY GRIND SMOOTH, AND POLISH ALL WELDED CONNECTIONS.
 - POST AND PANEL ASSEMBLIES TO BE CONNECTED TOGETHER WITH EMBEDDED NUTS AND BOLTS. ALL HARDWARE SHALL BE TAMPER PROOF STAINLESS STEEL.
 - ALL RAILING COMPONENTS TO BE PREPARED, PRIMED AND POWDER COATED. COLOR TO BE SILVER.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 - RAILING TYPES A, B & C TO BE PAID FOR AS PEDESTRIAN RAIL (SPECIAL).

1 PEDESTRIAN RAIL, SPECIAL
 Scale: 1" = 1'-0"



2 PEDESTRIAN RAIL ATTACHMENT
 Scale: 1 1/2" = 1'-0"



3 PEDESTRIAN RAIL STEP
 Scale: 1" = 1'-0"

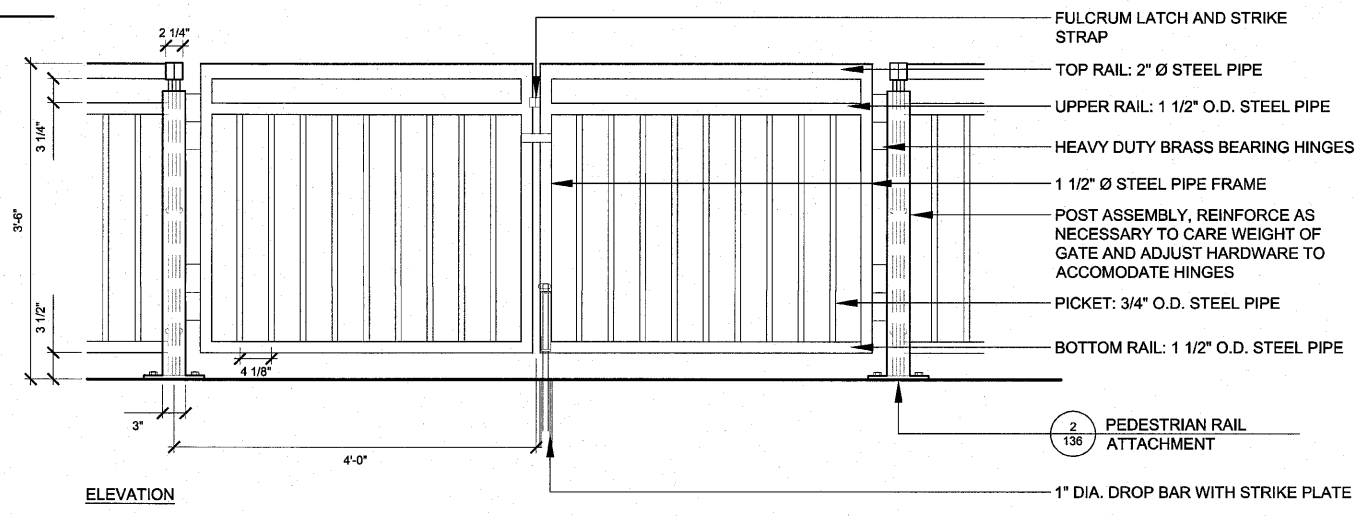
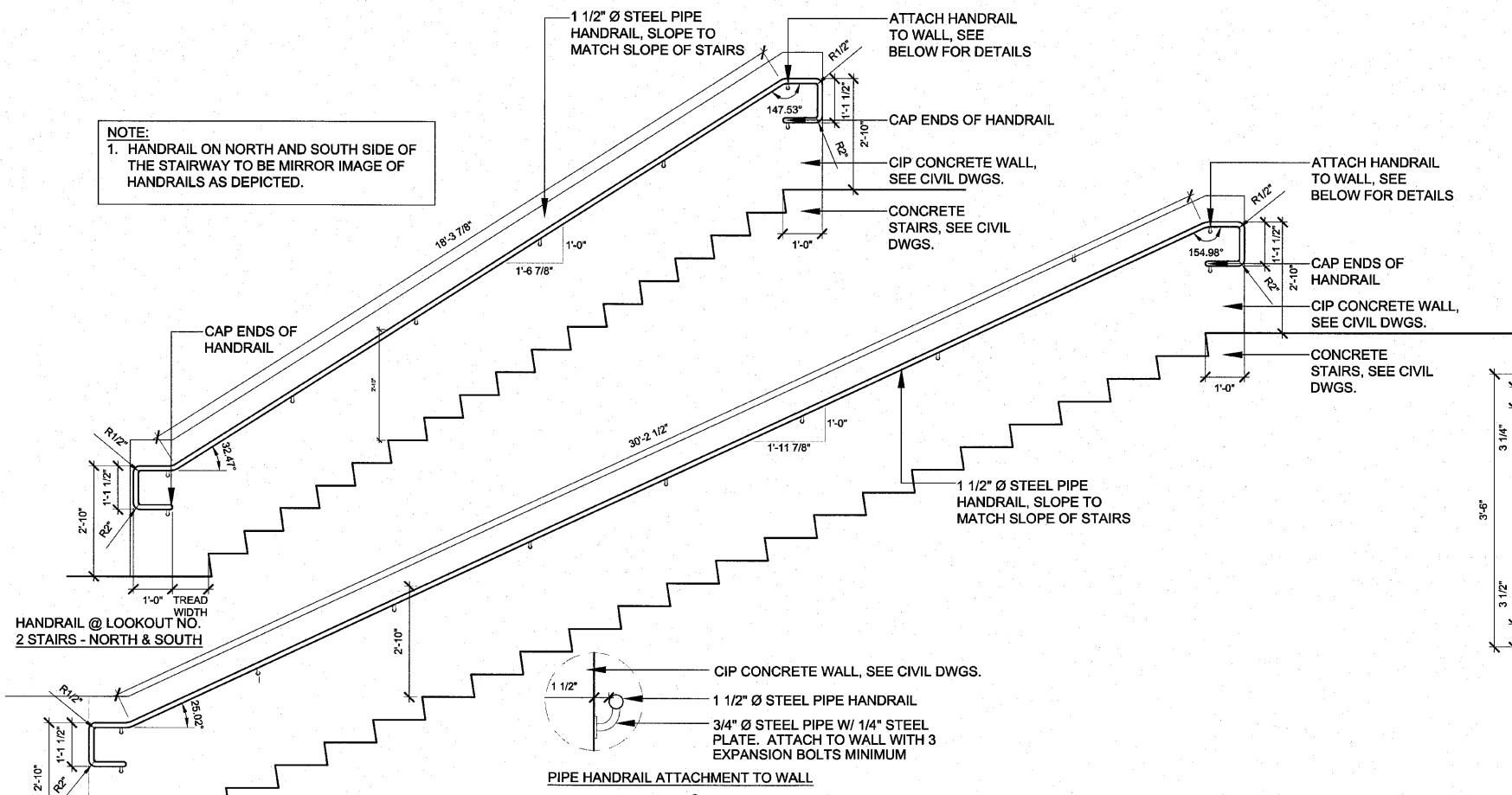
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

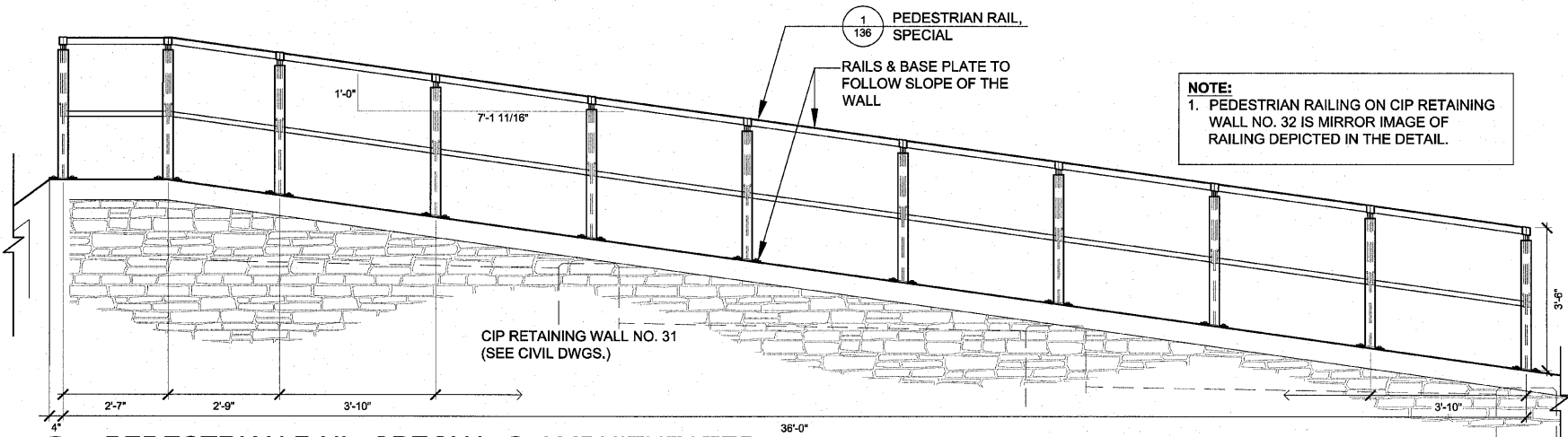
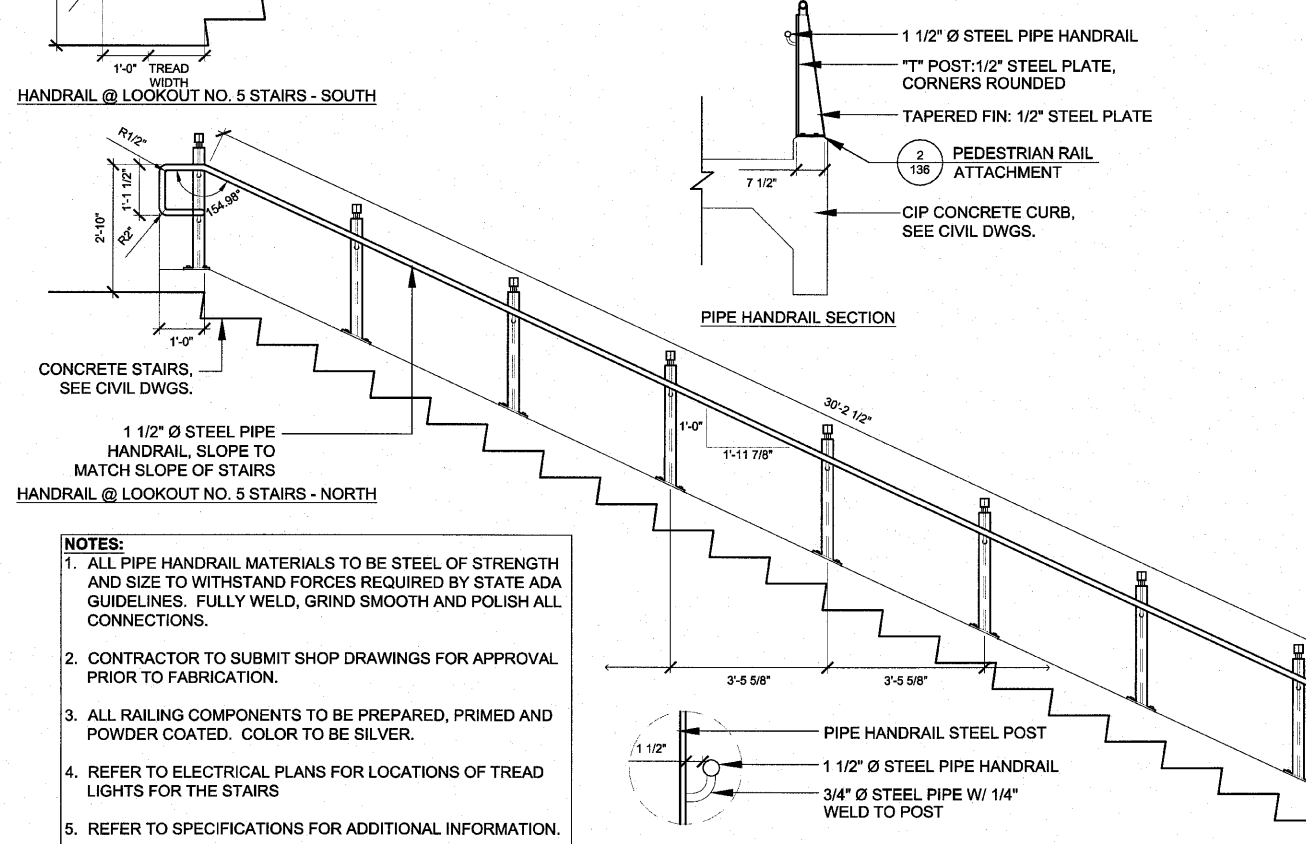
SCALE:	AS SHOWN
DRAWN BY:	MAF
CHECKED BY:	TCK
DATE:	9/3/2010

- NOTES:**
1. VERIFY WIDTH OF GATE WITH OWNER
 2. ALL GATE MATERIALS TO BE STEEL. FULLY WELD, GRIND SMOOTH AND POLISH ALL CONNECTIONS.
 3. GATE TO SWING TOWARD THE RIVER AND BE LOCKABLE IN BOTH OPEN AND CLOSED POSITIONS.
 4. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SUBMIT GATE HARDWARE PRODUCT SAMPLES AND DATA FOR APPROVAL PRIOR TO FABRICATION.
 5. ALL RAILING COMPONENTS TO BE PREPARED, PRIMED AND POWDER COATED. COLOR TO BE SELECTED BY OWNER (SILVER).
 6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE:
1. HANDRAIL ON NORTH AND SOUTH SIDE OF THE STAIRWAY TO BE MIRROR IMAGE OF HANDRAILS AS DEPICTED.



2 GATE, SPECIAL
Scale: 1" = 1'-0"



3 PEDESTRIAN RAIL, SPECIAL @ AMPHITHEATER
Scale: 1/2" = 1'-0"

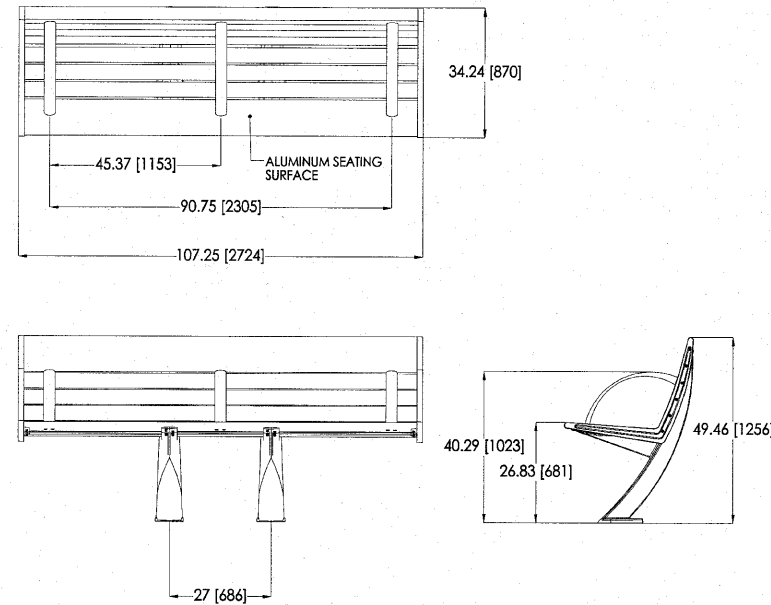
- NOTES:**
1. ALL PIPE HANDRAIL MATERIALS TO BE STEEL OF STRENGTH AND SIZE TO WITHSTAND FORCES REQUIRED BY STATE ADA GUIDELINES. FULLY WELD, GRIND SMOOTH AND POLISH ALL CONNECTIONS.
 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 3. ALL RAILING COMPONENTS TO BE PREPARED, PRIMED AND POWDER COATED. COLOR TO BE SILVER.
 4. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF TREAD LIGHTS FOR THE STAIRS
 5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1 PIPE HANDRAIL, SPECIAL
Scale: 1/2" = 1'-0"

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	AS SHOWN
DRAWN BY:	MAF
CHECKED BY:	TKK
DATE:	9/3/2010



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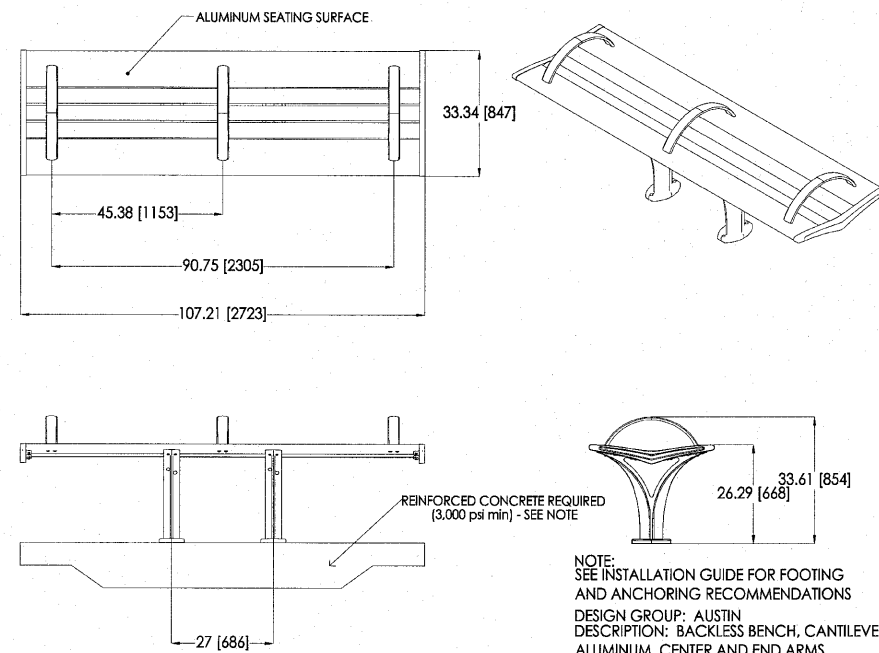
431 LAWDALE AVE. PHONE: 800-521-2546
KALAMAZOO, MI 49048 FAX: 269-381-3455

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1 BENCH WITH BACK

Scale: not to scale

d-austin bench AU454-03.dwg



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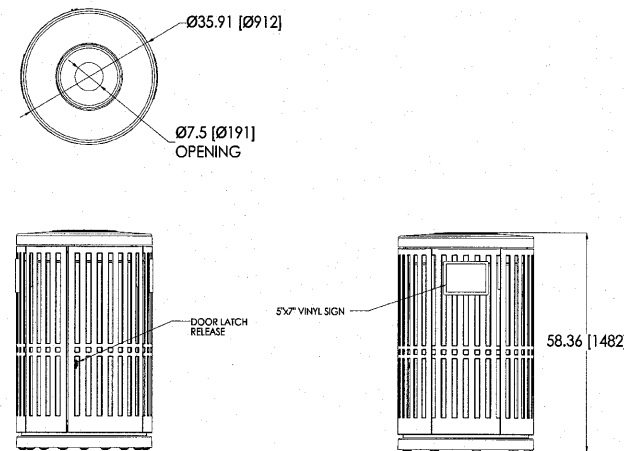
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2 BENCHES

Scale: not to scale

d-austin bench-backless AU454-03.dwg



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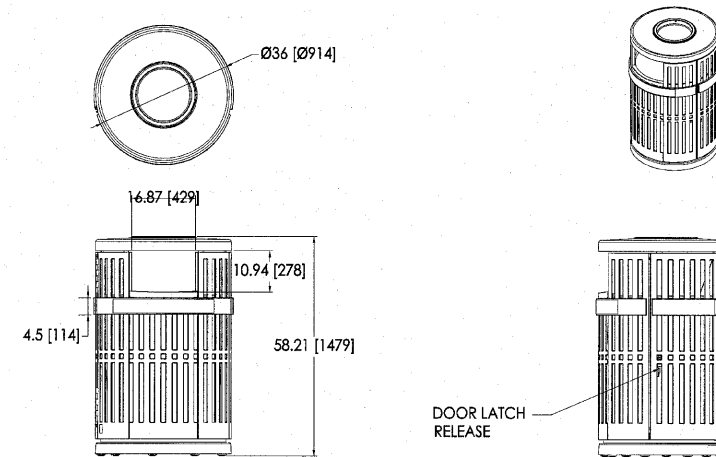
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3 RECYCLING RECEPTACLE

Scale: not to scale

d-receptacle-recycling-CP383-01-HOL.dwg



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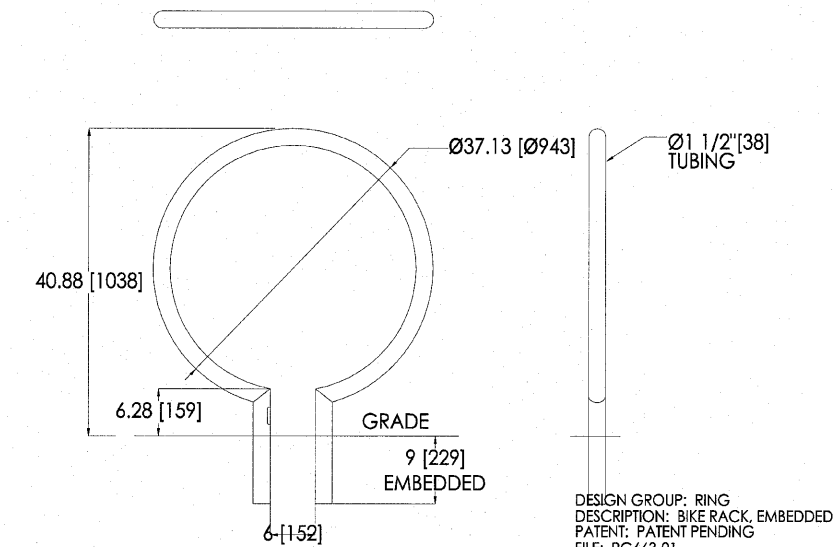
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KALAMAZOO, MI 49048 FAX: 269-381-3455

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4 TRASH RECEPTACLES

Scale: not to scale

d-receptacle-litter-CP382-03.dwg



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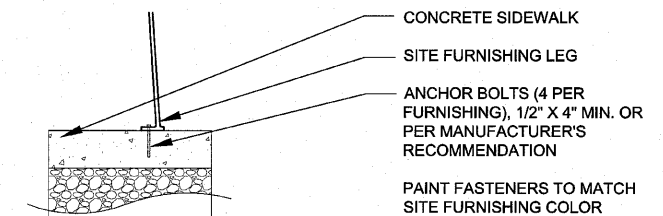
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5 BICYCLE RACKS

Scale: not to scale

d-bike rack

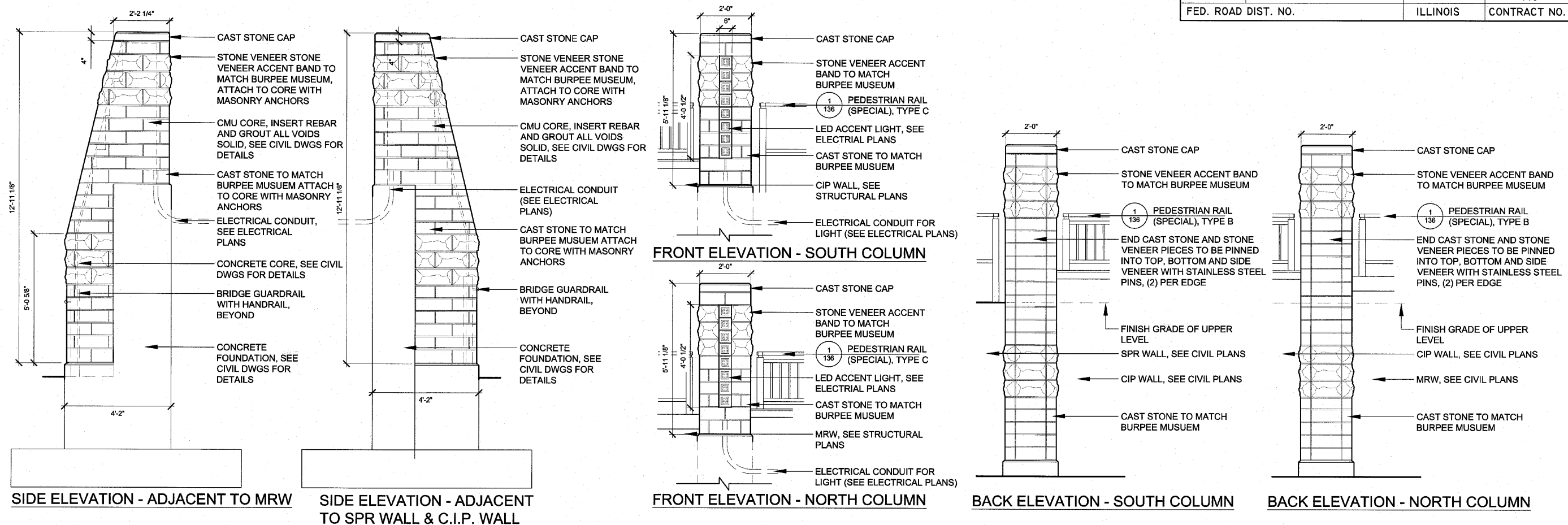


6 SITE FURNISHING ATTACHMENT

Scale: 1" = 1'-0"

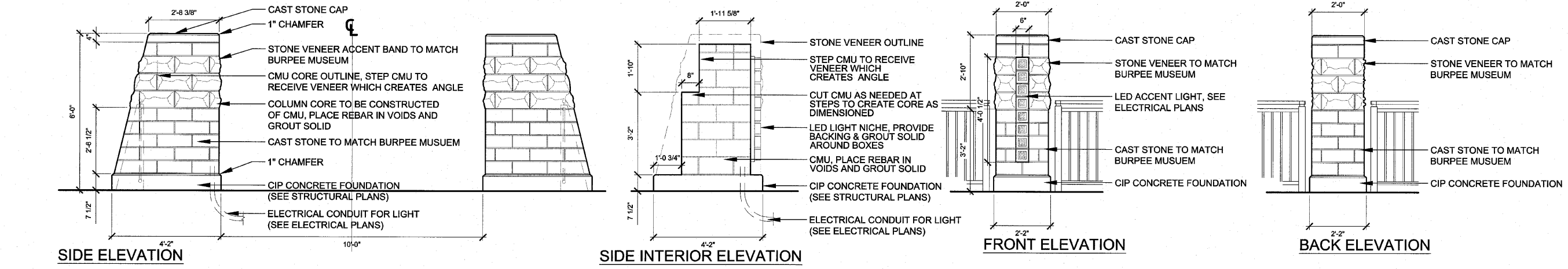
d-site-furnishing-attach

NOTE: MODELS AND MANUFACTURER'S SHOWN ARE FOR ILLUSTRATIVE PURPOSES TO SHOW DESIGN INTENT. OTHER MANUFACTURER'S MAY BE ALLOWED IF SHOWN TO BE EQUAL IN QUALITY, FUNCTION AND STYLE AS APPROVED BY THE OWNER'S REPRESENTATIVE.



1 MASONRY COLUMN, LARGE
Scale: 1/2" = 1'-0"

- NOTES:**
- COLUMNS TO BE MIRROR IMAGE ON CENTERLINE OF BRIDGE.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS OF LARGE AND SMALL COLUMNS DEPICTING DIMENSIONS OF COLUMN ELEMENTS INCLUDING CAST STONE, STONE VENEER, INTERIOR CMU CORE WITH REBAR AND GROUT IN VOIDS TO BE USED AND LED ACCENT LIGHT.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS/CUT SHEETS AND SAMPLES OF CAST STONE, STONE VENEER, AND LED ACCENT LIGHT.
 - CMU REFERS TO CONCRETE MASONRY UNIT, SEE SPECIFICATIONS FOR MORE DETAIL.



2 MASONRY COLUMN, SMALL
Scale: 1/2" = 1'-0"

GENERAL NOTES

DEPRESSED CURBS – The top of curbs shall be depressed where the curb and gutter is constructed across alleys and for private drives or where directed by Engineer.

THICKNESS – "t" = Thickness of pavement.

DRAINAGE OPENINGS – At all location where castings are to be incorporated in the curb and gutter, a 1" expansion joint shall be installed in the curb and gutter a distance of 5 ft. from each side of the casting. At least 2 tie bar shall be placed in the 5 ft. portion and the bars shall be at least 9" from the joint or casting. Any extra bars required shall be considered incidental. When the width of the casting is less than the width of the curb and gutter 2-No. 4 re-bar (L = 12" + casting length + 12") shall be incorporated in the continuous portion of concrete gutter in front of the casting.

TIE BARS – Tie bars shall be in accordance with details for Bulkhead Longitudinal Construction joint shown of Standard 420001-03. When curb and gutter is constructed adjacent to flexible pavement tie bar shall be omitted.

JOINTS – In addition to the requirements of Article 606.06 of the Standard Specification joints shall be constructed as follows:

Contraction joint and expansion joints shall be installed in the curb and gutter in prolongation with joints in adjacent PCC pavement or base course except that dowel bars will not be required in contraction joints. Contraction joints when sewed or template formed shall be sealed in accordance with Article 420.14(a) of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at points of curvature for short-radius curves and at construction joints. Contraction joints shall be placed between expansion joints at distances not to exceed 25 ft

All expansion joints shall be constructed with a minimum 1" thick preformed expansion joint filler conforming to the cross section of the curb and gutter and shall be provided with a 1-1/4" diameter x 18" coated smooth dowel bar conforming to Article 1006.11(b) of the Standard Specifications. The greased end of the dowel bar shall be fitted with a cap having a pinched stop that will provide a minimum 1" of expansion.

Construction joints constructed in curb and gutter adjacent to PCC pavement and PCC base course shall be provided with No. 4 deformed steel tie bars 30" long. Tie bars shall be placed on 9" + centers (minimum 2 per joint).

TRANSITIONS – The transition from full height curb to depressed curb shall be made at the rate of 3" per foot of length or flatter.

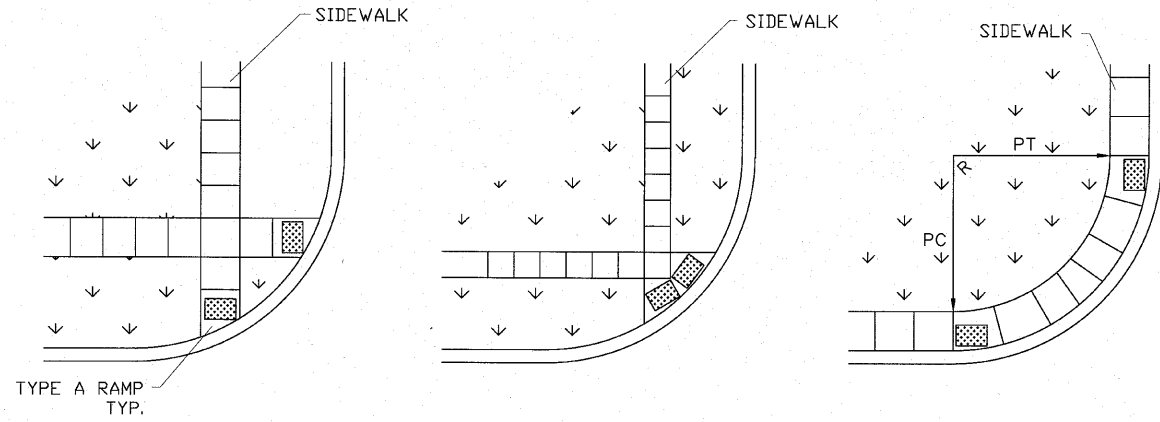
ADJACENT PCC PAVEMENT – Adjacent PCC pavement or base course less than 1" in width shall be constructed monolithic with the curb and gutter. This area of pavement will be included in the measured area of the adjacent pavement.

MONOLITHIC CONSTRUCTION – Curb and combination curb and gutter may be constructed monolithically with PCC pavement at the option of the Contractor. Tie bar will not be required. Pavement reinforcement shall be extended laterally to within 3" to 5" from the back of the curb.

Curbs and combination curb and gutter may be constructed monolithically with PCC base course. Tie bar will be required. Tie bars shall be held in the proper location by support pins or approved mechanical means.

Longitudinal joints between the PCC pavement or PCC base course and curb or combination curb and gutter will not be required.

SLIPFORM CONSTRUCTION – Vertical faces may be battered at the rate of 3/4" per foot of height to aid in slipform operations.



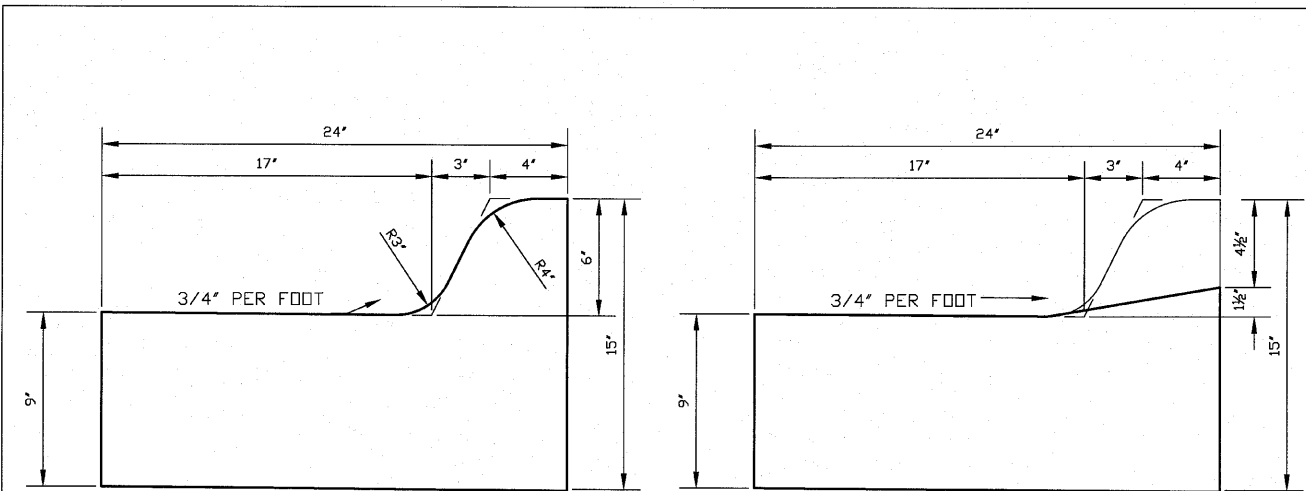
TYPE A RAMP TYP.

NOTE: MODIFICATION OF IDOT STD 424001-05

HATCHED AREAS OR DETECTABLE WARNINGS SHALL BE MANUFACTURED PRODUCTS SET IN THE POURED SIDEWALK. PROVIDE DETECTABLE WARNINGS MADE OF GLASS AND CARBON REINFORCED COMPOSITE, AS MANUFACTURED BY ADA SOLUTIONS, INC OF N. BILLERICA, MA OR EQUALLY APPROVED SUPPLIER. BOX OUTS WITH POURED COLORED CONCRETE WILL NOT BE ALLOWED. PHYSICAL CHARACTERISTICS: COMPRESSIVE STRENGTH 28,900 PSI (ATSM D695), FLEXURAL STRENGTH 29,300 PSI (ATSM D790), SLIP RESISTANCE 1.18 DRY/1.05 WET (ATSM C1028).

ADA CURB RAMP DETAIL FOR INTERSECTIONS

DTL-ADARAMP09.dwg

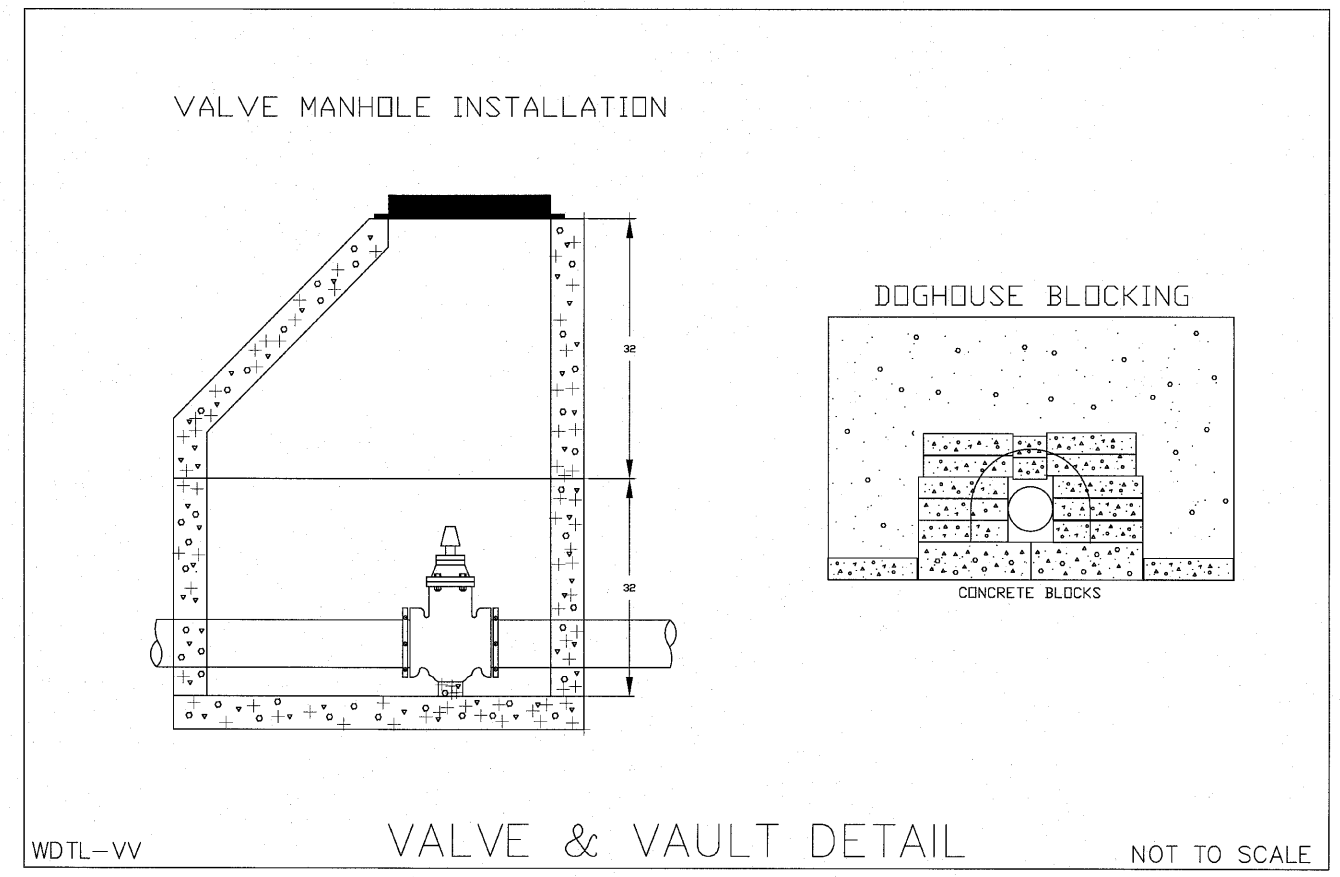
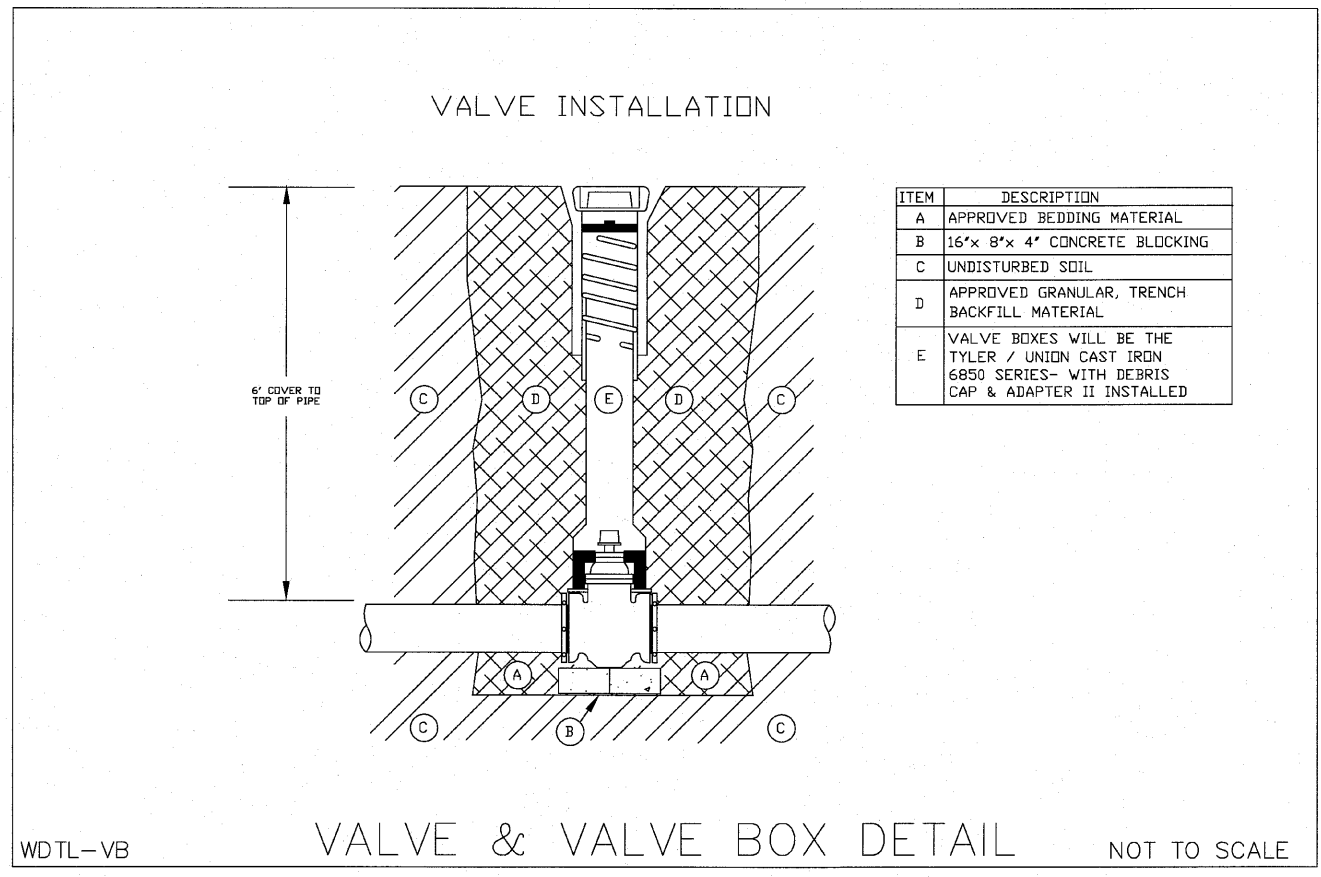
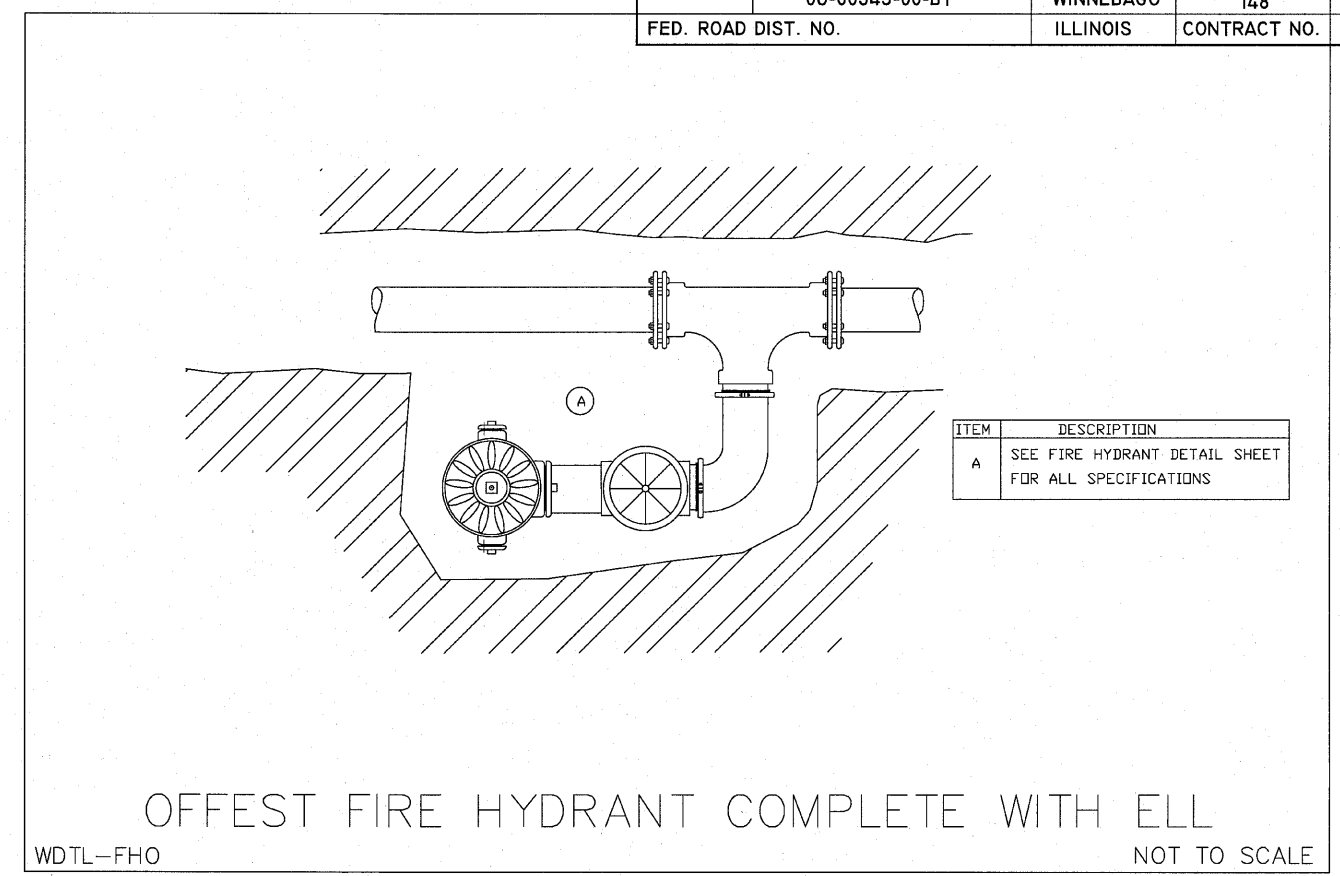
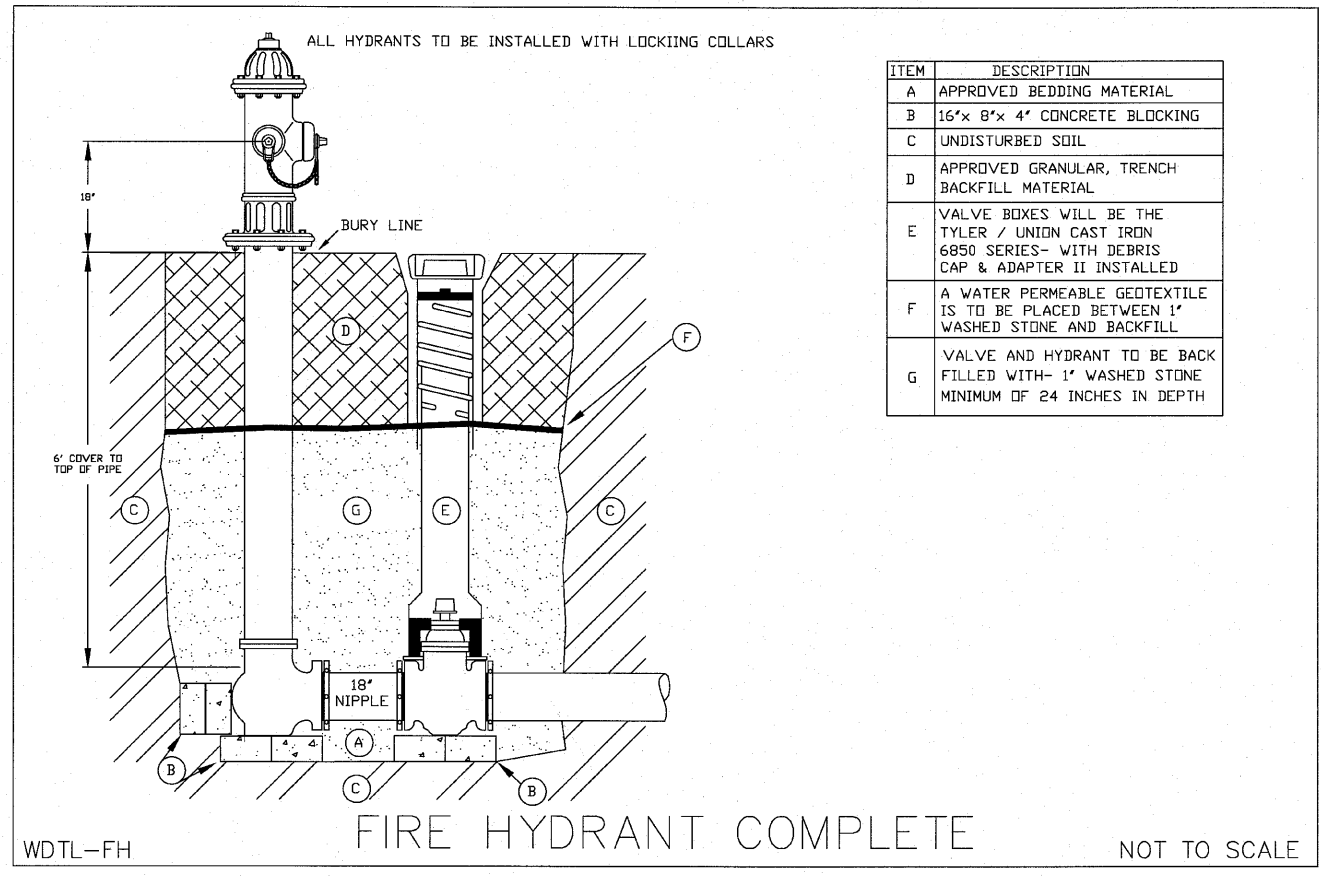


Combination Concrete Curb & Gutter, Type M6.18 Modified

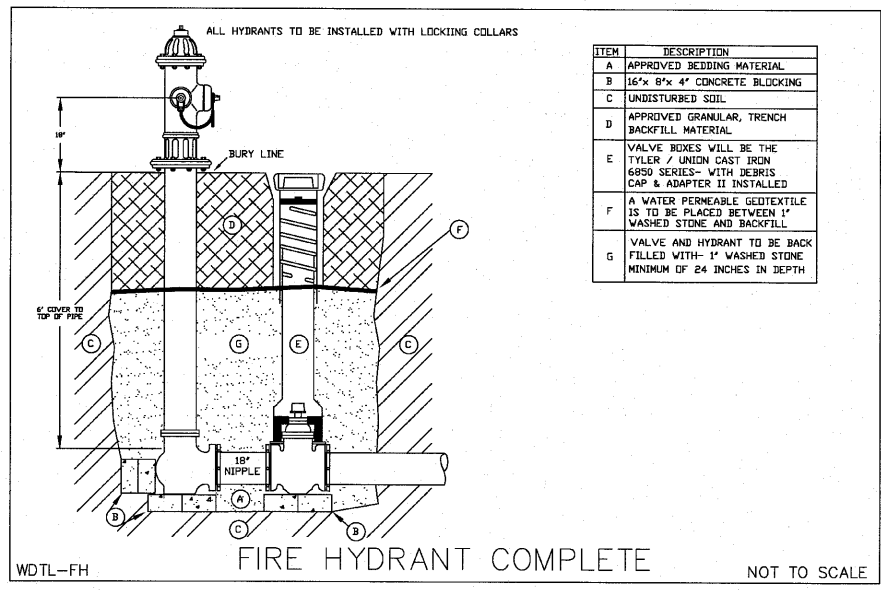
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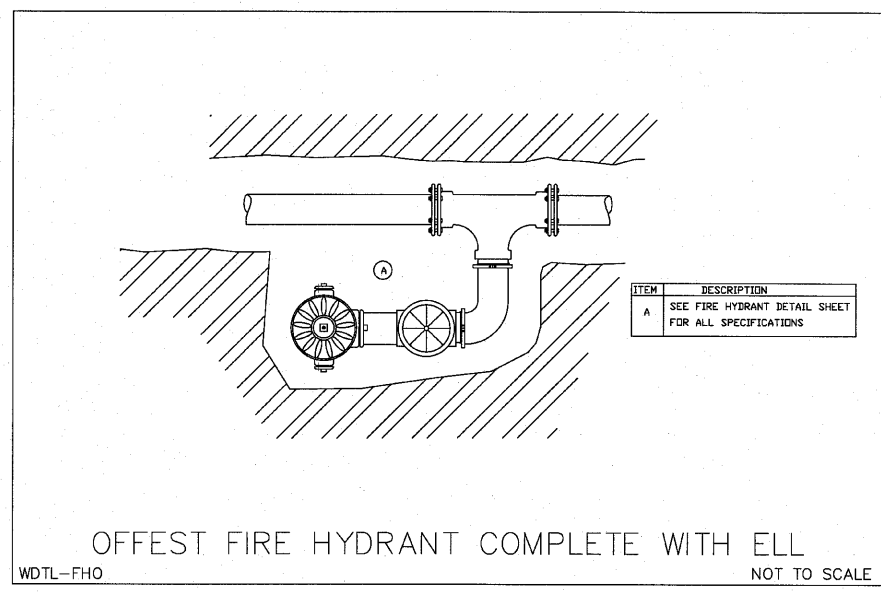
SHEET REVIEW	AGENCY		DATE	REVISIONS	NO.	ITEM	DATE	SCALE: N/A	DRAWN BY: MS	CHECKED BY: JMH	DATE: AUGUST 13, 2010	<p>7282 Argus Drive Rockford, Illinois 61107-5837 (815) 398-2332 FAX (815) 398-2496 Design Firm License: Illinois 184-000816 Copyright 2010 By McClure Engineering Associates, Inc.</p>	<p>CITY OF ROCKFORD (2)</p> <p>RIVERWALK MUSEUM CAMPUS</p> <p>711 NORTH MAIN STREET ROCKFORD, IL</p> <p>FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 ROCKFORD DETAILS.DWG JOB: 04-28-10-008</p>	SHEET NO. 142 OF 148
	AGENCY	DATE	NO.		ITEM	DATE								



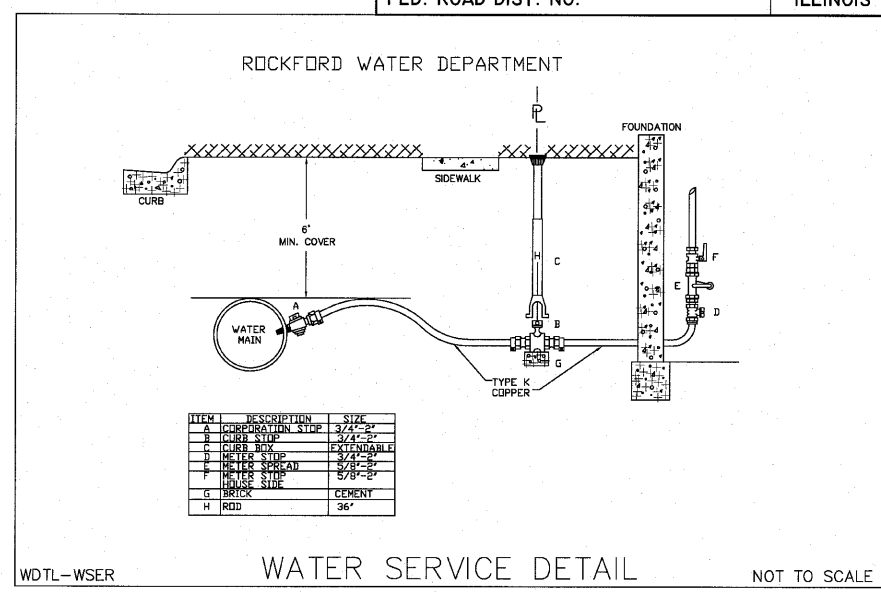
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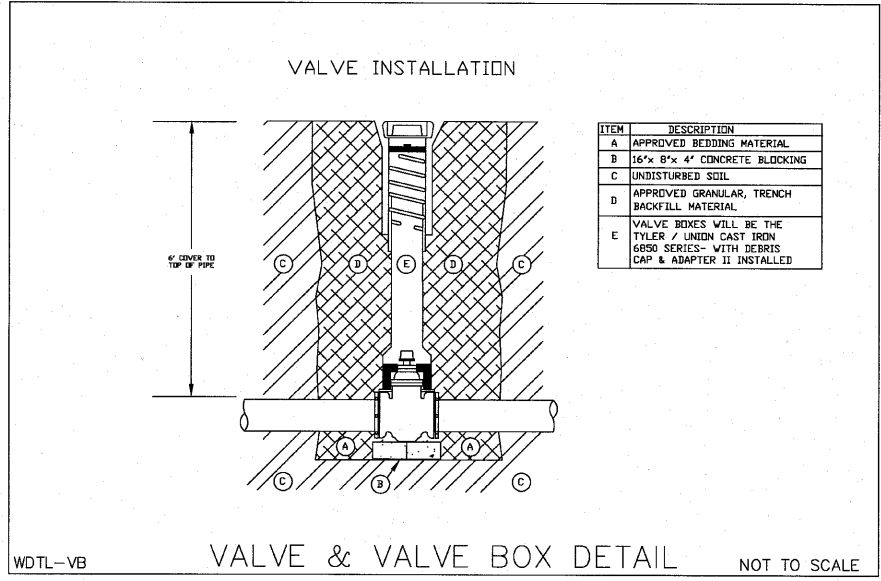
WDTL-FH FIRE HYDRANT COMPLETE NOT TO SCALE



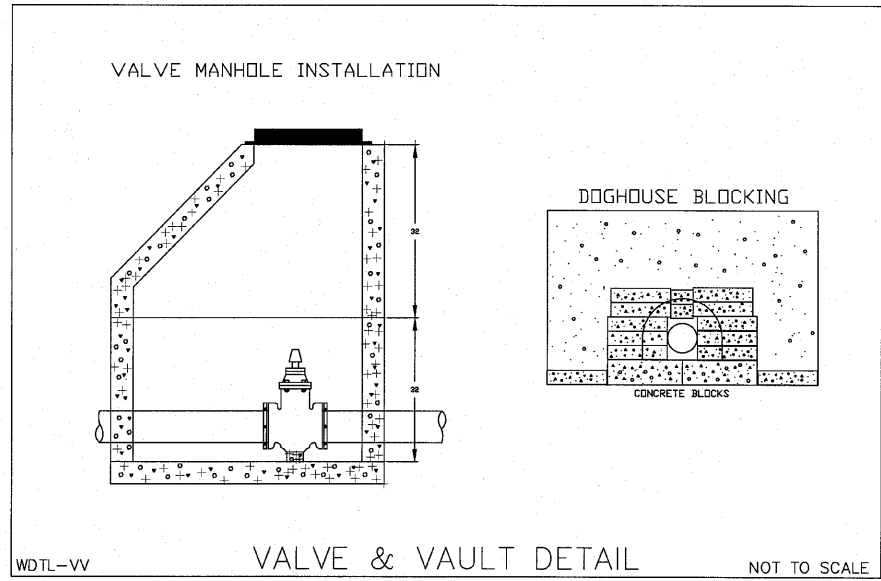
WDTL-FHO OFFSET FIRE HYDRANT COMPLETE WITH ELL NOT TO SCALE



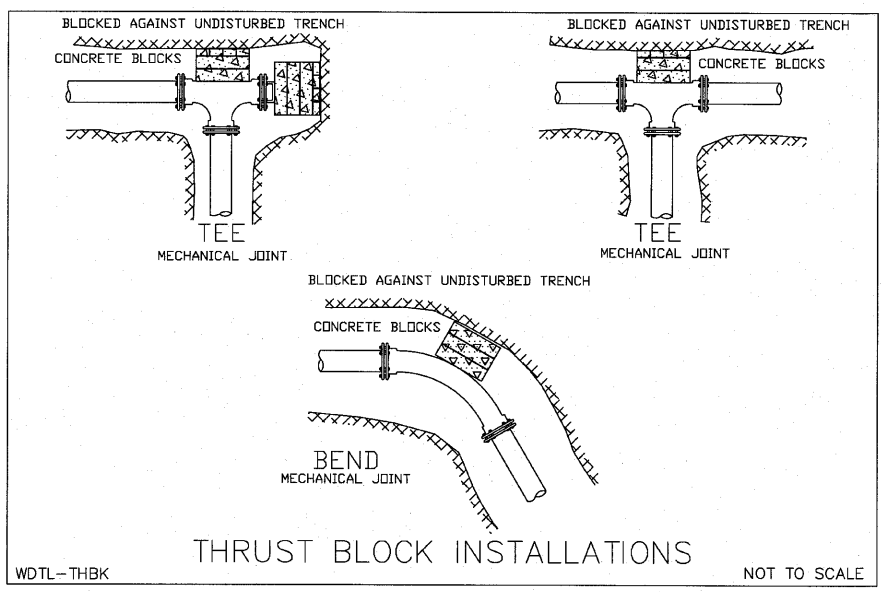
WDTL-WSER WATER SERVICE DETAIL NOT TO SCALE



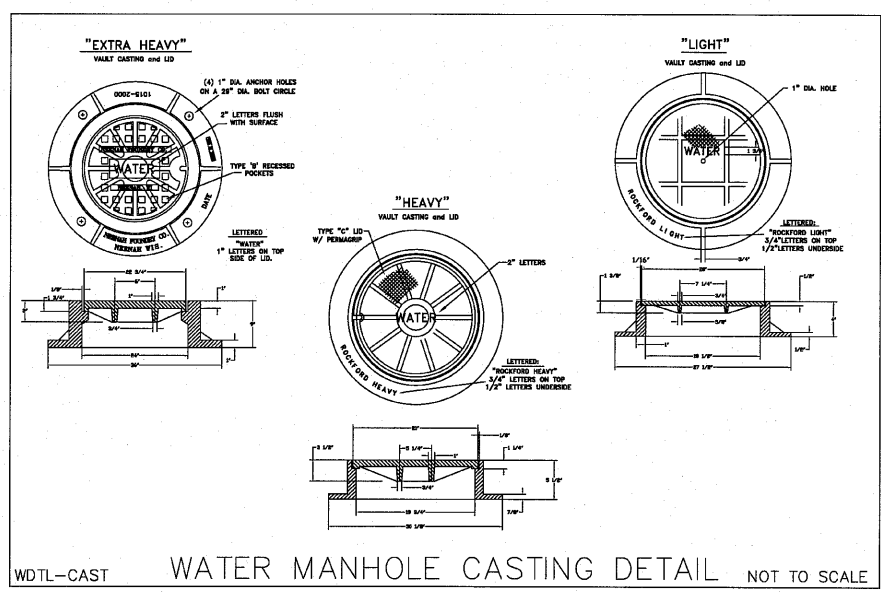
WDTL-VB VALVE & VALVE BOX DETAIL NOT TO SCALE



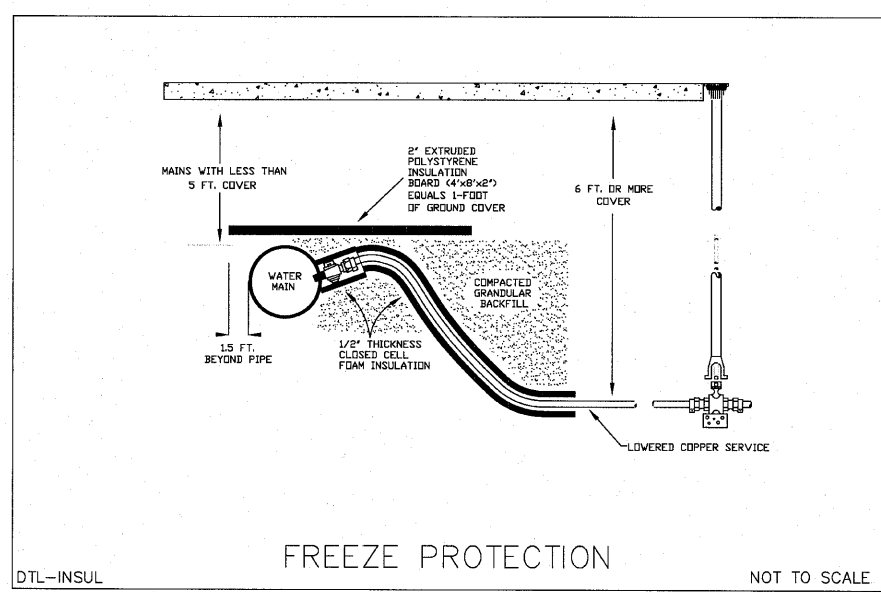
WDTL-VV VALVE & VAULT DETAIL NOT TO SCALE



WDTL-THBK THRUST BLOCK INSTALLATIONS NOT TO SCALE



WDTL-CAST WATER MANHOLE CASTING DETAIL NOT TO SCALE



DTL-INSUL FREEZE PROTECTION NOT TO SCALE

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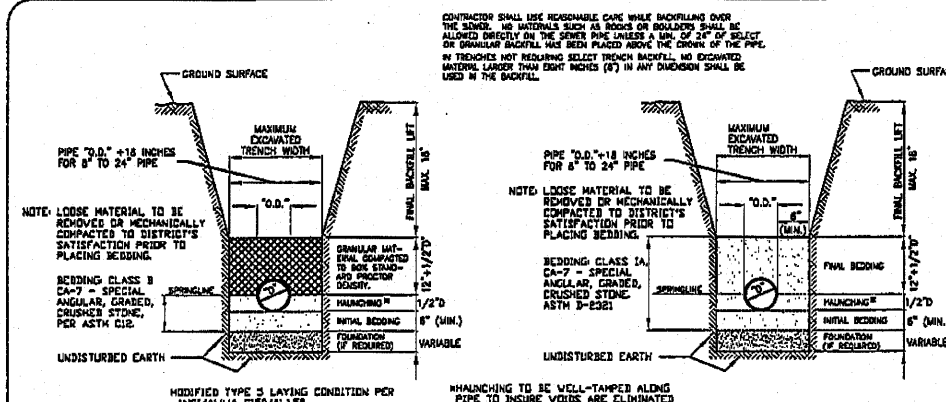
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

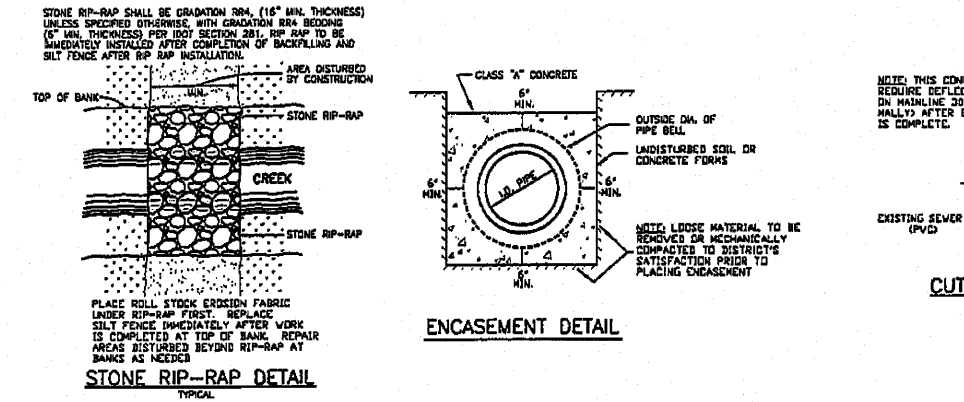
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DRAWN BY:	MS
CHECKED BY:	JWH
DATE:	AUGUST 13, 2010

McClure
Engineering Associates, Inc.
7282 Argus Drive
Rockford, Illinois 61107-5837
(815) 398-2332 FAX (815) 398-2496
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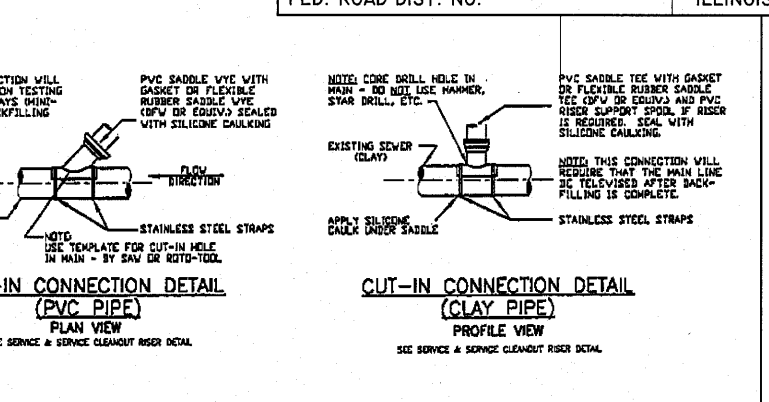
WATER DIVISION (2)
RIVERWALK MUSEUM CAMPUS
711 NORTH MAIN STREET
ROCKFORD, IL
FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 ROCKFORD DETAILS.DWG
JOB:04-28-10-008



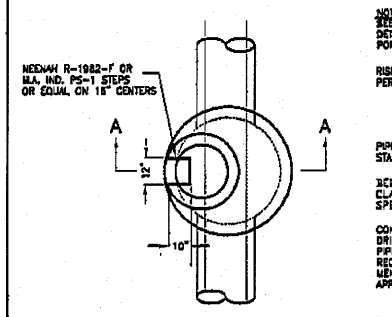
CLAY, RCP & DIP PIPE BEDDING DETAIL



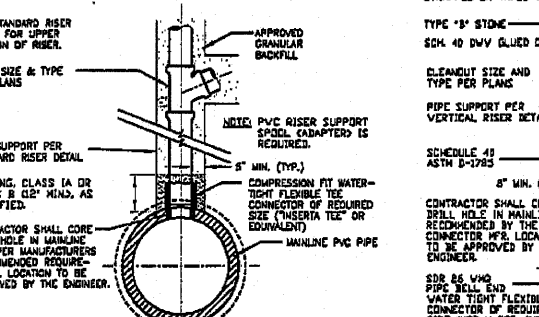
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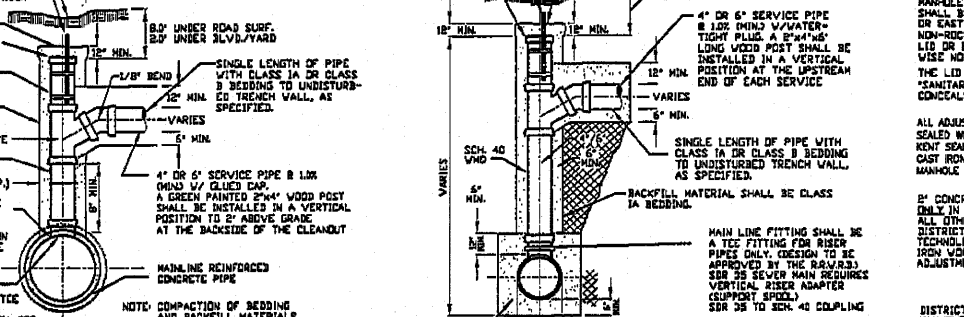
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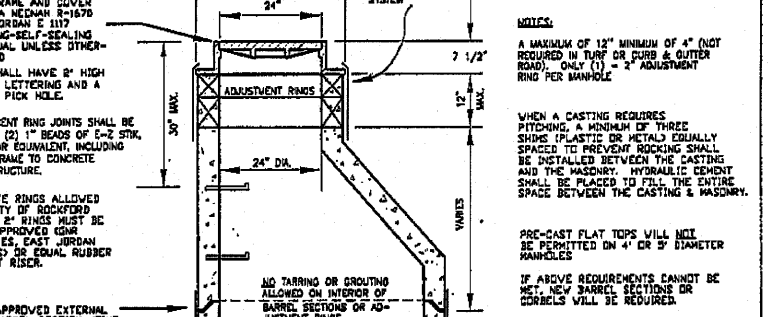
MANHOLE DETAIL - PLAN



SERVICE CONNECTION FOR PVC TRUNK SEWER

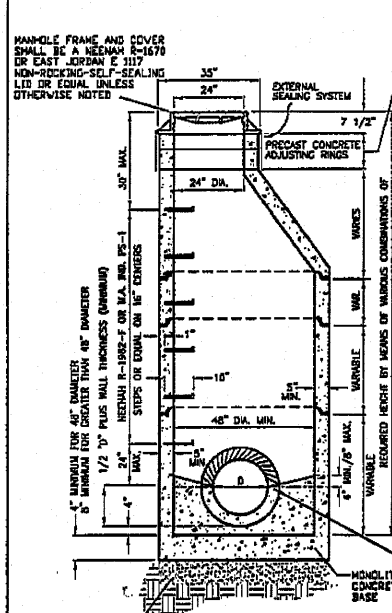
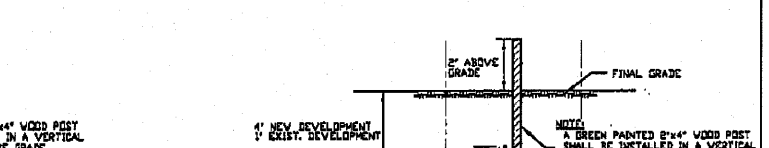
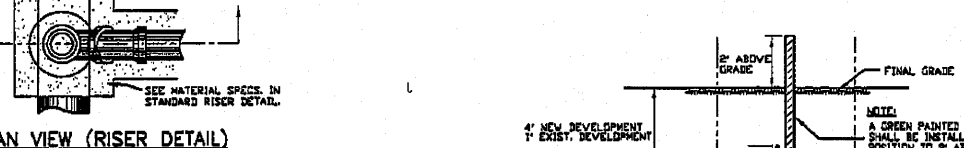
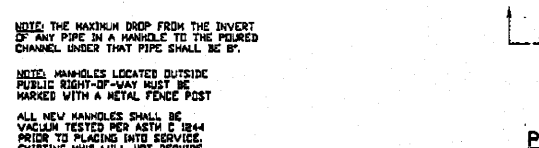


SERVICE CONNECTION DETAIL FOR RCP

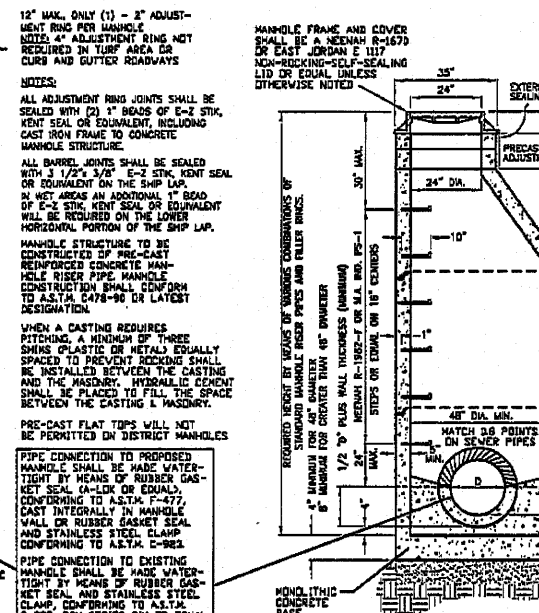


VERTICAL RISER DETAIL

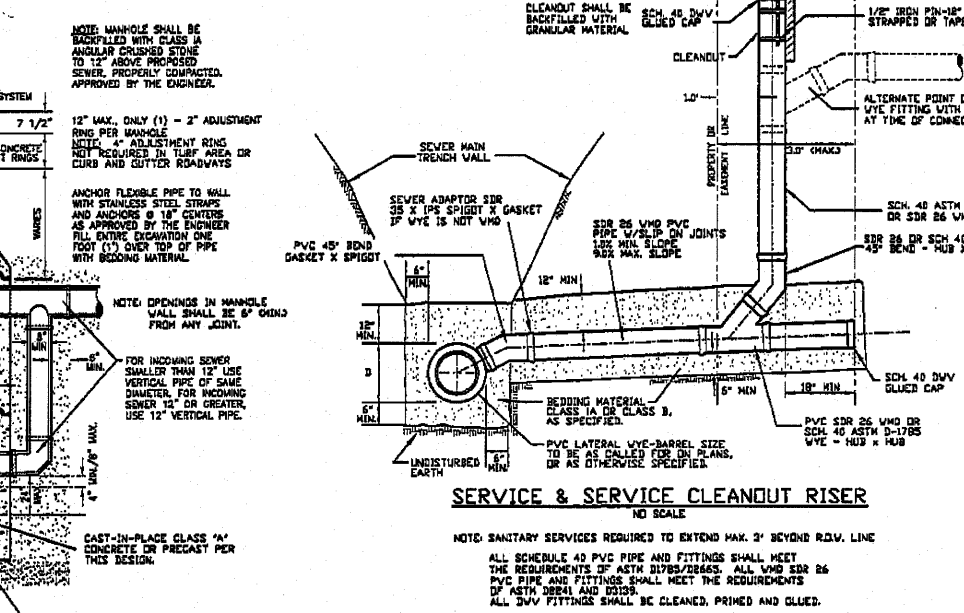
PIPE SIZE	MIN. DIAMETER	MIN. WALL THICKNESS
4" - 18"	4"	1/2"
24" - 36"	24"	1 1/2"
48" - 60"	48"	2"



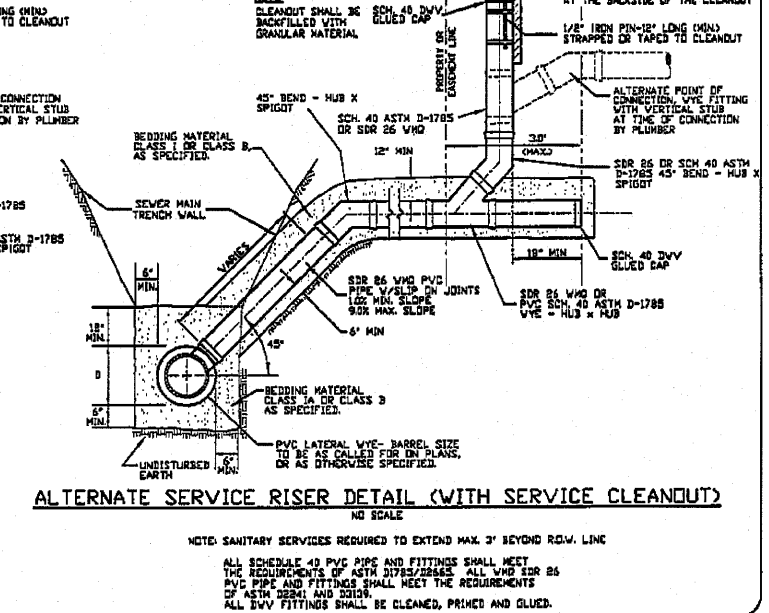
SANITARY MANHOLE DETAIL



SANITARY DROP MANHOLE DETAIL



SERVICE & SERVICE CLEANOUT RISER



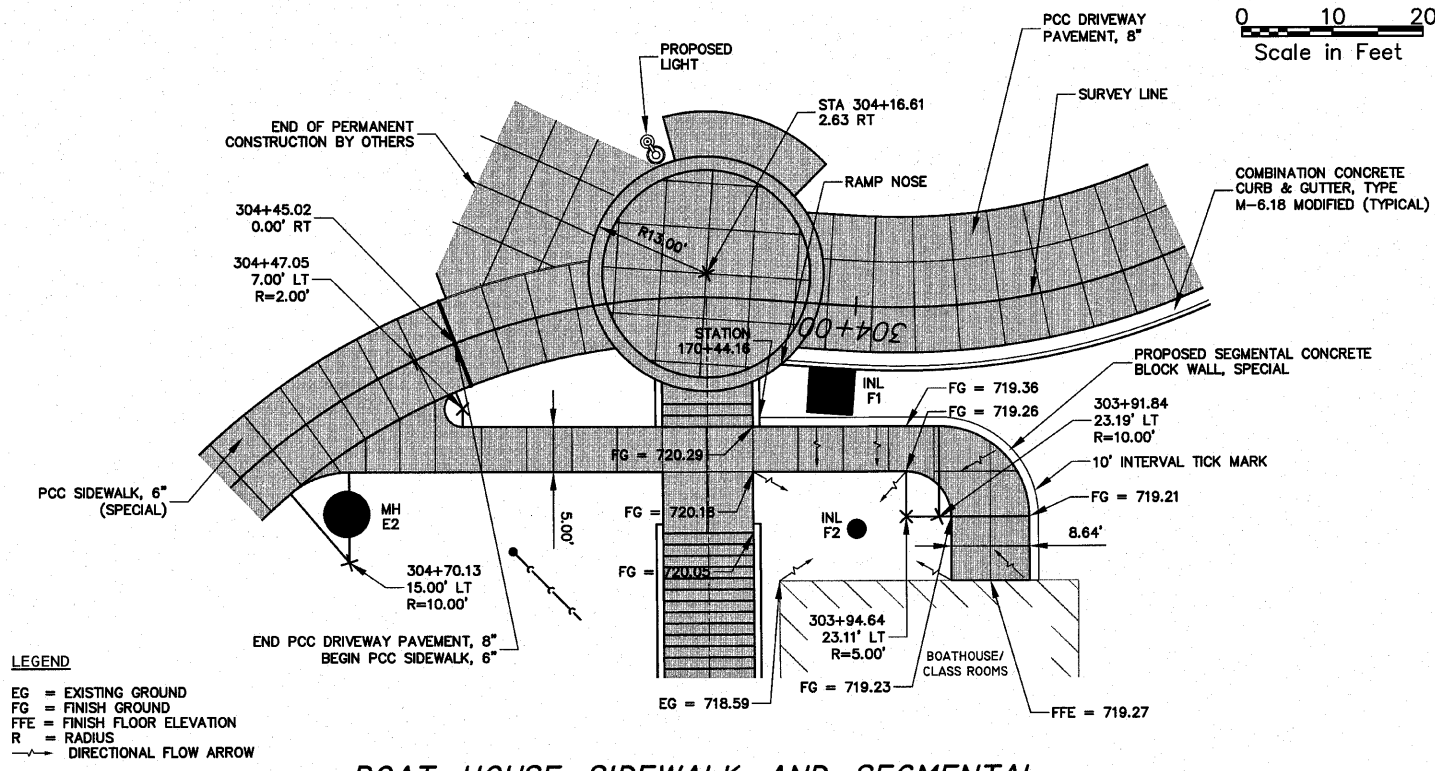
ALTERNATE SERVICE RISER DETAIL (WITH SERVICE CLEANOUT)

ROCK RIVER WATER RECLAMATION DISTRICT
 3501 KISHWAUKEE ST., P.O. BOX 7480, ROCKFORD, ILLINOIS 61126-7480 - PH. (815) 387-7660/FAX (815) 387-7665

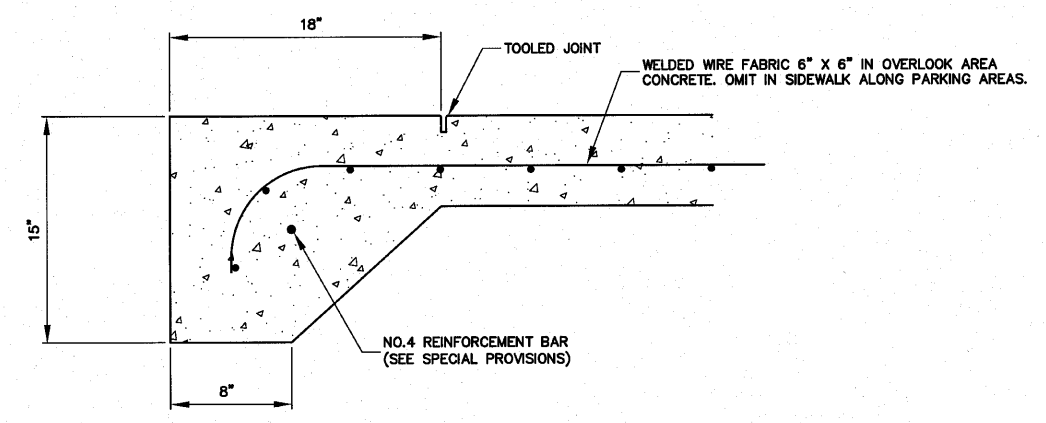
REVISED: 5/19/09 PAD **STANDARD DETAIL SHEET**

SHEET OF

SHEET REVIEW		REVISIONS		SCALE:	McClure Engineering Associates, Inc.	DETAILS - RRWRD		SHEET NO. 145 OF 148
AGENCY	DATE	NO.	ITEM	DATE		RIVERWALK MUSEUM CAMPUS	ROCKFORD, IL	
					7282 Argus Drive Rockford, Illinois 61107-5837 (815) 398-2332 Design Firm License: Illinois 184-000816 Copyright 2010 By McClure Engineering Associates, Inc.	711 NORTH MAIN STREET	ROCKFORD, IL	

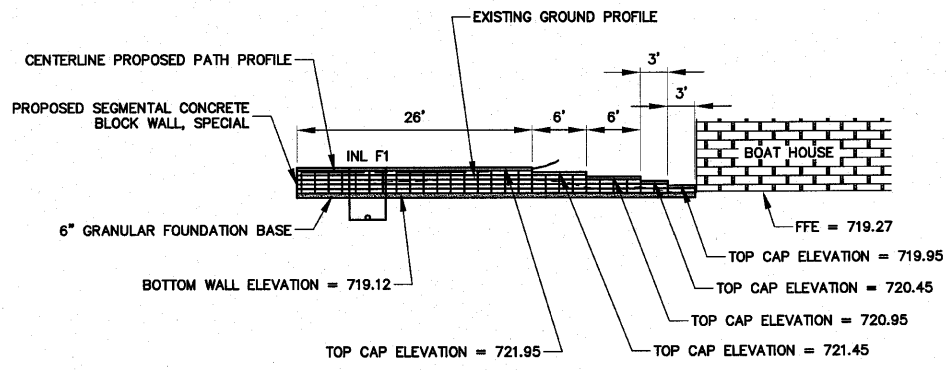
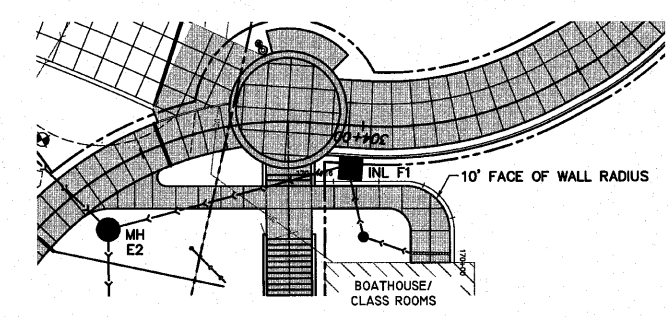


BOAT HOUSE SIDEWALK AND SEGMENTAL CONCRETE BLOCK WALL DETAIL



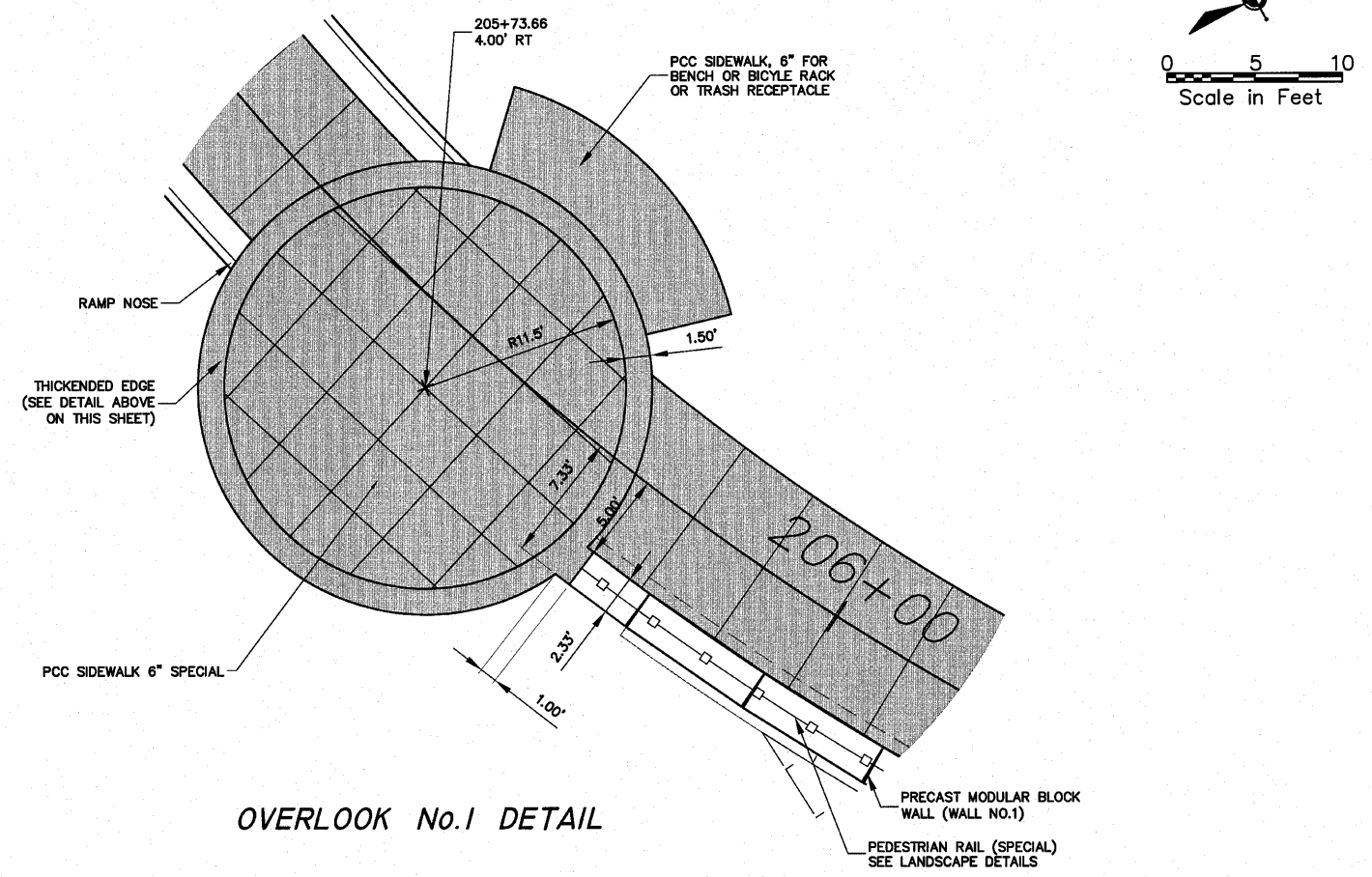
PCC SIDEWALK 6", SPECIAL THICKENED EDGE DETAIL not to scale

LEGEND
 EG = EXISTING GROUND
 FG = FINISH GROUND
 FFE = FINISH FLOOR ELEVATION
 R = RADIUS
 → DIRECTIONAL FLOW ARROW



BOAT HOUSE SEGMENTAL CONCRETE BLOCK WALL PROFILE

SCALES:
 PLAN: 1" = 10'
 PROFILE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL



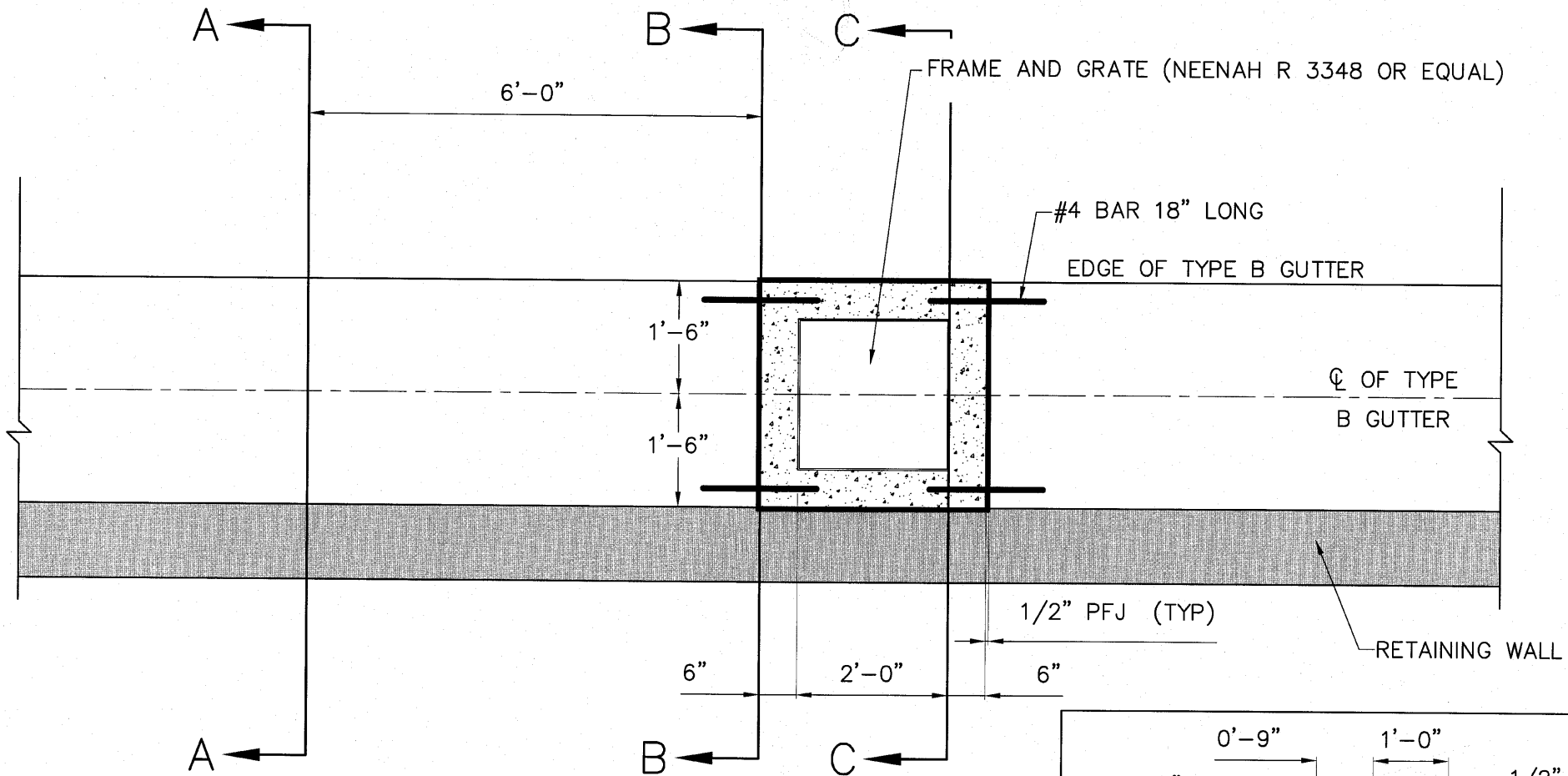
OVERLOOK No. 1 DETAIL

H:\08_008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 MISC DETAILS.DWG, DETAILS - VARIOUS, 9/7/2010 8:39:14 AM, J.L. MOYER

SHEET REVIEW		REVISIONS		SCALE: <i>Varies per Detail</i>	<p>7287 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.</p>	DETAILS - VARIOUS		SHEET NO.
AGENCY	DATE	NO.	ITEM	DATE		RIVERWALK MUSEUM CAMPUS		146
						711 NORTH MAIN STREET		OF
						ROCKFORD, IL		148
				DATE: AUGUST 13, 2010	FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 MISC DETAILS.DWG		JOB: 04-28-10-008	

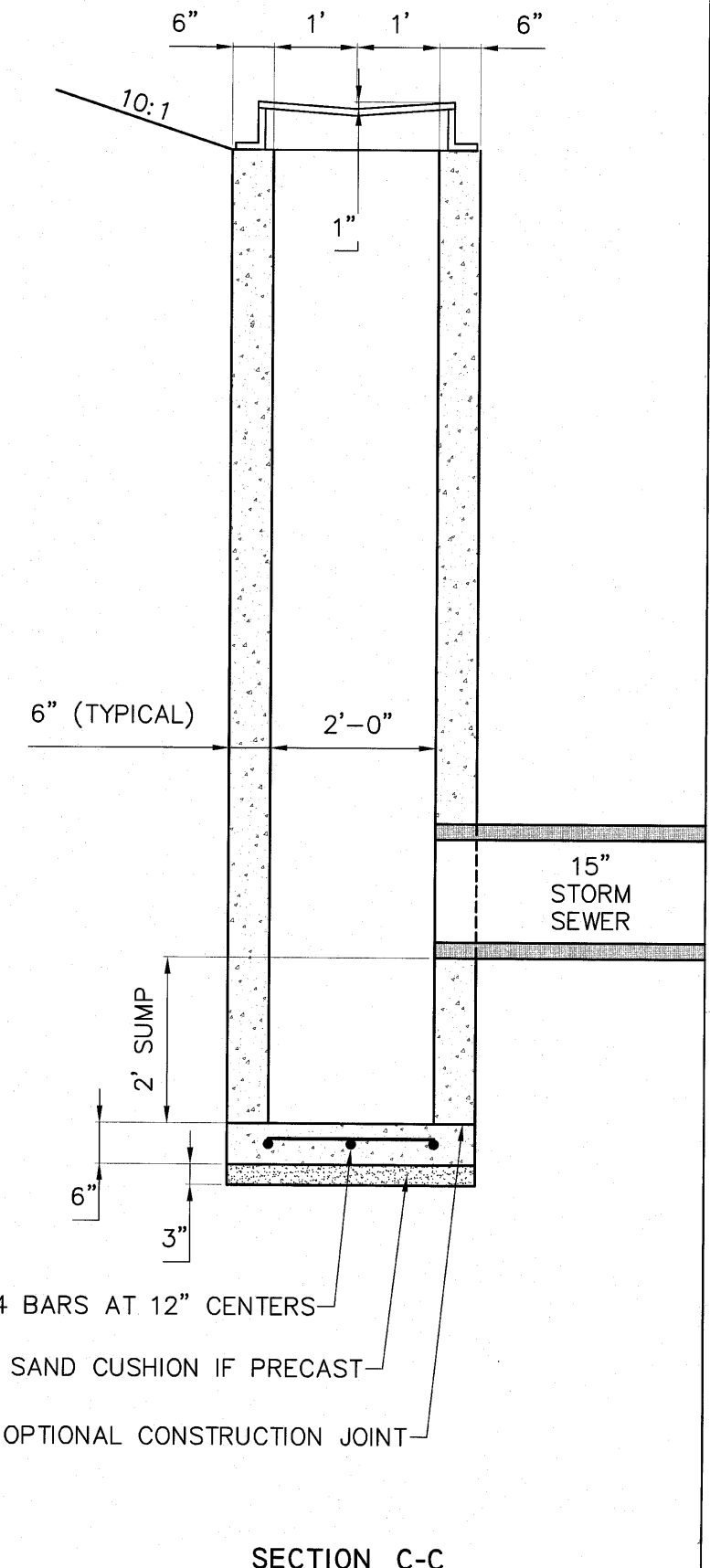
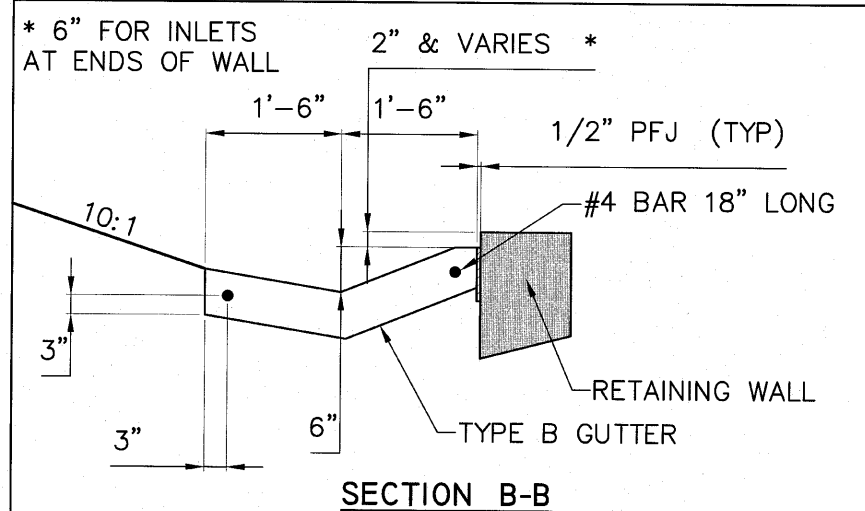
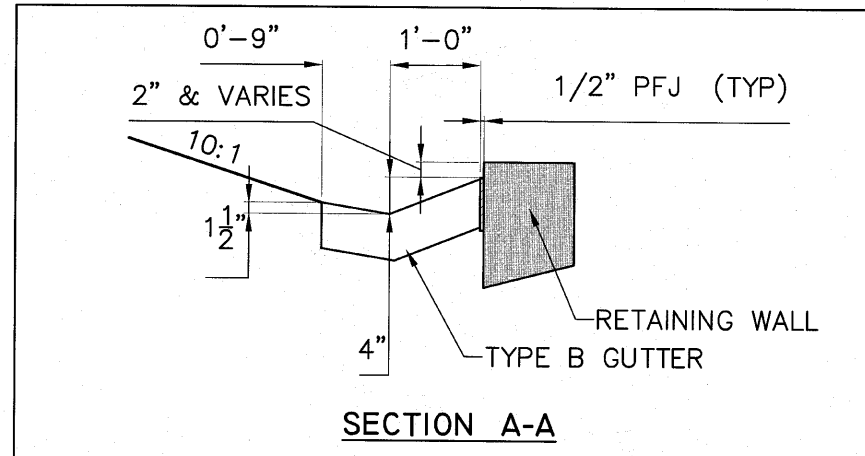
INLET BOX, SPECIAL, No.1

F.A. RTE.	SECTION 06-00543-00-BT	COUNTY WINNEBAGO	TOTAL SHEETS 148
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	85521



NOTES:

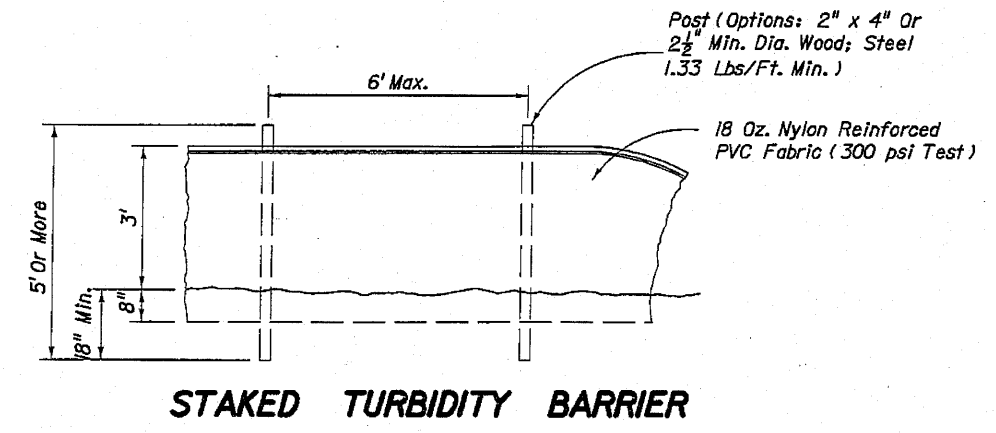
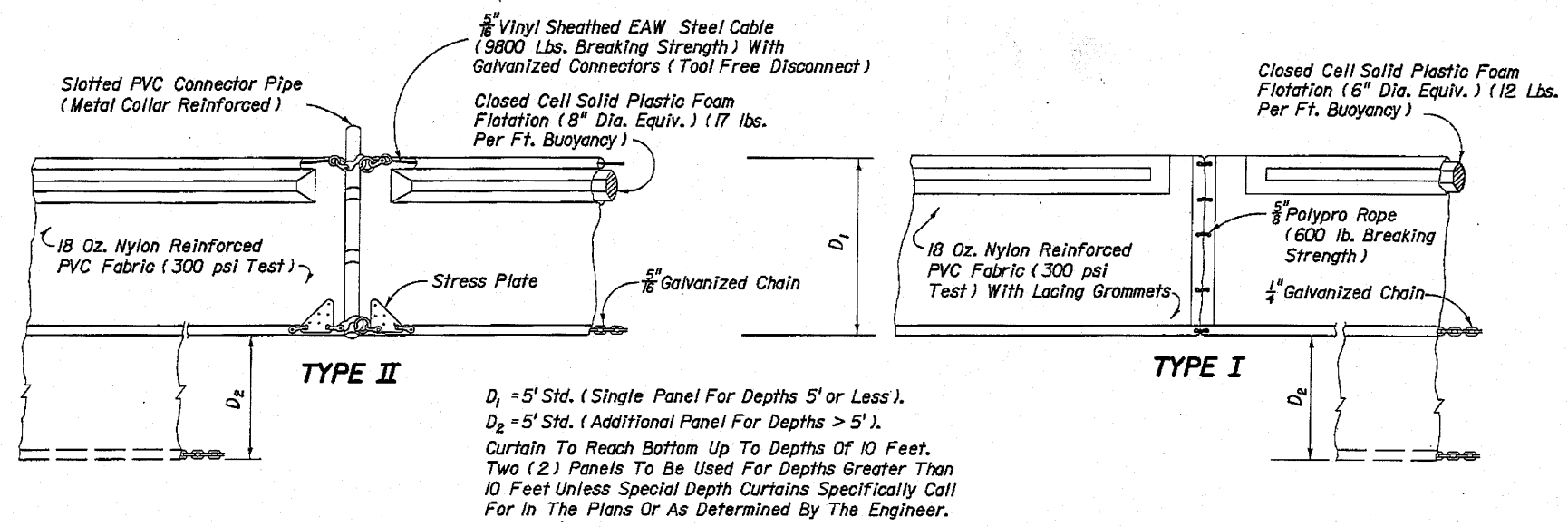
1. EXCEPT AS NOTED HERON INLET BOX. SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACT UNIT PRICE "EACH" FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE PRECAST FLOOR SLAB, PCC COLLAR, WELDED WIRE FABRIC, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.
3. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE
4. 4,000 PSI AFTER 28 DAYS.
5. REINFORCEMENT BARS SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120.
6. THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.
7. ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.



NO. 4 BARS AT 12" CENTERS
 3" SAND CUSHION IF PRECAST
 OPTIONAL CONSTRUCTION JOINT

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">SHEET REVIEW</th></tr> <tr><td>AGENCY</td><td>DATE</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	SHEET REVIEW		AGENCY	DATE					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">REVISIONS</th></tr> <tr><td>NO.</td><td>ITEM</td><td>DATE</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	REVISIONS			NO.	ITEM	DATE							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SCALE:</td><td>NA</td></tr> <tr><td>DRAWN BY:</td><td>MS</td></tr> <tr><td>CHECKED BY:</td><td>JWH</td></tr> <tr><td>DATE:</td><td>AUGUST 13, 2010</td></tr> </table>	SCALE:	NA	DRAWN BY:	MS	CHECKED BY:	JWH	DATE:	AUGUST 13, 2010	<p>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.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">INLET BOX SPECIAL</th></tr> <tr><td colspan="2" style="text-align: center;">RIVERWALK MUSEUM CAMPUS</td></tr> <tr><td>711 NORTH MAIN STREET</td><td>ROCKFORD, IL</td></tr> <tr><td colspan="2" style="text-align: center;">FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 GUTTER INLET DETAIL.DWG</td></tr> <tr><td colspan="2" style="text-align: right;">JOB:04-28-10-008</td></tr> </table>	INLET BOX SPECIAL		RIVERWALK MUSEUM CAMPUS		711 NORTH MAIN STREET	ROCKFORD, IL	FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 GUTTER INLET DETAIL.DWG		JOB:04-28-10-008		SHEET NO. 147 OF 148
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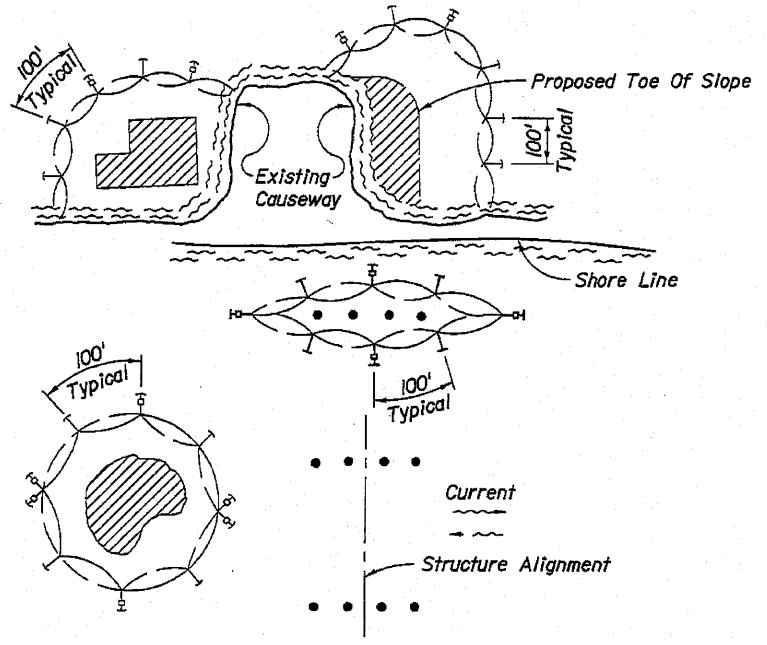
TYPE II

$D_1 = 5'$ Std. (Single Panel For Depths 5' or Less).
 $D_2 = 5'$ Std. (Additional Panel For Depths > 5').
 Curtain To Reach Bottom Up To Depths Of 10 Feet.
 Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Call For In The Plans Or As Determined By The Engineer.

TYPE I

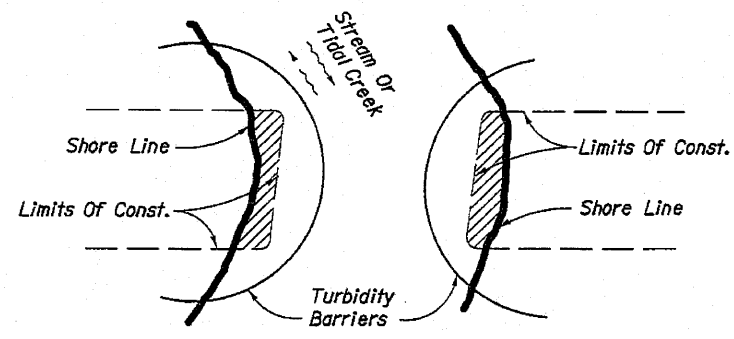
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



LEGEND

- Pile Locations
- ▨ Dredge Or Fill Area
- Mooring Buoy w/Anchor
- ┆ Anchor
- ⤴ Barrier Movement Due To Current Action



- NOTES:**
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the Standard Specifications.

Note:
 Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

GENERAL NOTES

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

TURBIDITY BARRIER APPLICATIONS

SHEET REVIEW		REVISIONS		SCALE: N/A		TURBIDITY BARRIER		SHEET NO. 148 OF 148
AGENCY	DATE	NO.	ITEM	DATE		711 NORTH MAIN STREET	RIVERWALK MUSEUM CAMPUS	
					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.	FED. ROAD DIST. NO. ILLINOIS CONTRACT NO. 85521		JOB: 04-28-10-008

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