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CITY OF ROCKFORD

RAILS TO TRAILS OVER THE ROCK RIVER

ILLINOIS TRANSPORTATION ENHANCEMENT PROGRAM (ITEP)

SECTION 14-00608-00-BT

PROJECT NO. TE-00D2(158)

JOB NO. C-92-049-15

ITEP NO. 231010

CONTRACT NO. 85620

2015

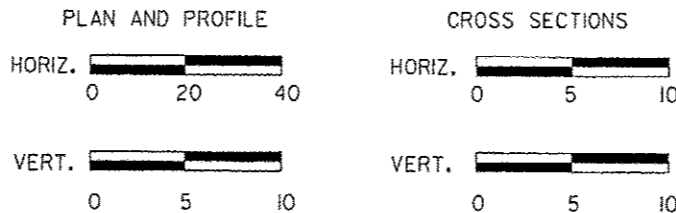


1-800-892-0123

STANDARDS

- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 664001-02 CHAIN LINK FENCE
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-04 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGN MRKRS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATION OF TYPES A & B METAL POST (FOR SIGN & MARKERS)
- 825001-02 LIGHTING CONTROLLER POLE MOUNTED, 240V
- 836001-02 LIGHT POLE FOUNDATION

SCALES:



UTILITY CONTACTS

SANITARY SEWER:

ROCK RIVER WATER RECLAMATION DISTRICT
MIKE WEBER, P.E.
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61126-7480
(815) 387-7660

GAS:

NICOR GAS CO.
SCOTT PUFFER
300 WEST TERRA COTTA AVENUE
CRYSTAL LAKE, ILLINOIS 60014
(815) 455-0271 EXT. 250

ELECTRIC:

COMMONWEALTH EDISON CO.
NORA FERNANDEZ
123 ENERGY AVENUE
ROCKFORD, ILLINOIS 61109
(815) 490-2335

CABLE:

COMCAST
MIKE OWENS
4450 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61098
(815) 395-8977

WATER MAIN:

CITY OF ROCKFORD PUBLIC WORKS
425 EAST STATE STREET
ROCKFORD, ILLINOIS 61104
(815) 987-5637

TELEPHONE:

AT&T COMPANY
STEVEN JONES
2404 8TH AVENUE
ROCKFORD, ILLINOIS 61108
(815) 961-3750

TELEPHONE:

AT&T COMPANY
BRIAN CRULL
216 NORTH MAIN STREET
ROCKFORD, ILLINOIS 61101
(815) 566-1976

TELEPHONE:

FRONTIER
GARY KLUZ
112 WEST ELM STREET
SYCAMORE, ILLINOIS 60178
(815) 895-1515

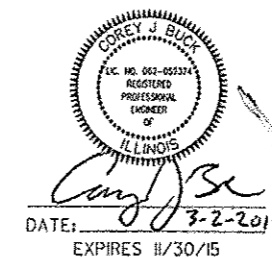


PROJECT LOCATION
LENGTH OF PROJECT = 1707.6 FEET = 0.32 MILES

CITY OF ROCKFORD
Approved 3-1-15 Matthew Vitor, P.E., City Engineer
Passed <u>3/5/15</u> John H. Wempe District 2 Engineer of Local Roads & Streets
Releasing for Bid Based on Limited Review <u>3/5/15</u> Paul A. Lutz Deputy Director of Highways, Region 2 Engineer

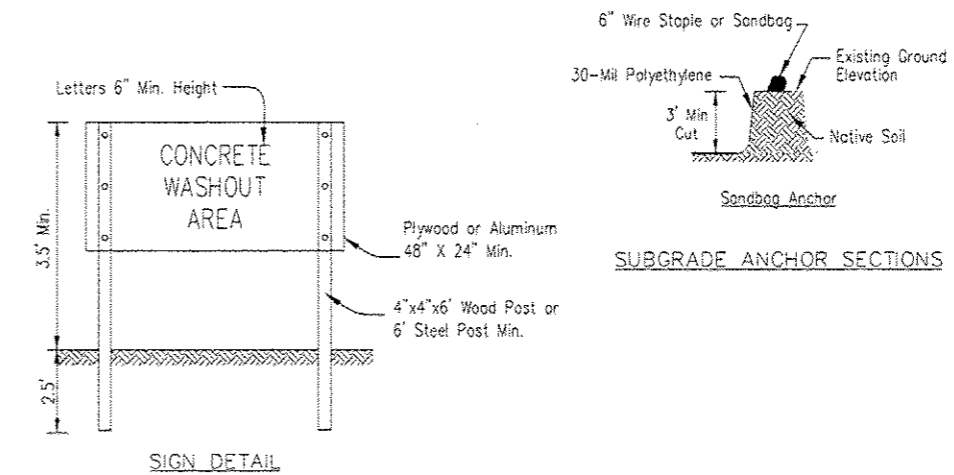
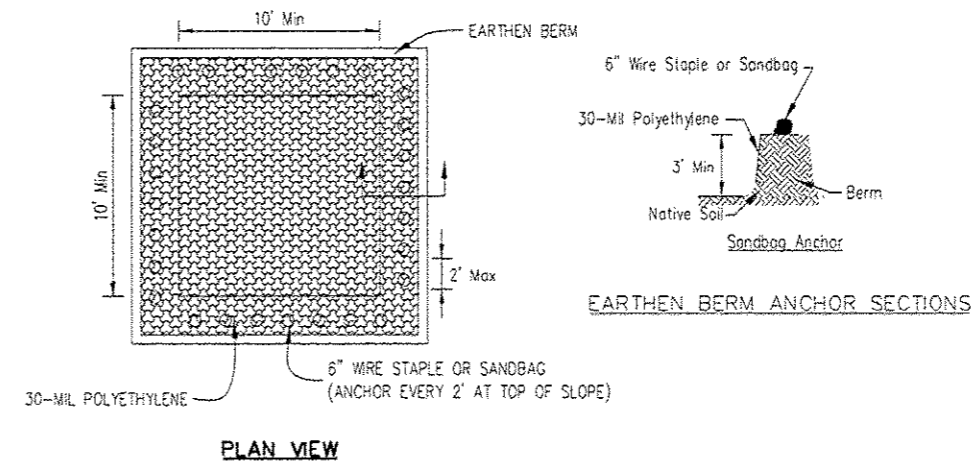


57 AIRPORT DRIVE, ROCKFORD, IL 61109
T: 815-964-2897 DESIGN FIRM: #184-000918
DATE: 3-2-2015 WHA# 1016R13



GENERAL NOTES:

- When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the City of Rockford as to the location of such utilities and is only included for the convenience of the bidder.
- The contractor shall seed all disturbed areas within the project limits. Seeding Class 1 shall be used.
- Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding at a rate specified in Sections 250 and 252 of the Standard Specifications.
- The final top four (4) inches of soil in any area disturbed by the contractor must be capable of supporting vegetation.
- Contractor shall notify City a minimum of 48 hours in advance of the start of construction or the continuation of construction following a pause in work.
- City representatives shall only be available between 7:30 am and 3:30 pm on weekdays.
- Inspectors will not be available on Saturdays, Sundays and official City of Rockford holidays.
- City/Engineer does not guarantee the completeness or accuracy of the existing utilities shown on the plans.
- Contractor shall be responsible for following the erosion control provisions provided in the specifications and on the plans.
- Removal of trees under 6" diameter, brush and trimming of trees shall be considered incidental to the work.
- Within 7 days after construction activity ceases on any particular area, all disturbed ground where there will not be further activity for longer than 14 days must be seeded with fast-germinating temporary erosion control seed and protected with mulch, method 1.
- The contractor will be required to construct a Temporary Concrete Washout Facility in accordance with the Illinois Urban Manual. The contractor must submit a plan of his/her proposed concrete washout facility to the resident Engineer for his/her approval at least 10 days prior to the first concrete pour.
- During construction the contractor shall clean up and grade the work area to eliminate concentration of runoff at the close of each work day and maintain or replace (as directed by the Engineer) erosion and sediment control items.
- When needed the contractor shall remove and dispose of silt retained by the temporary erosion control items.
- All maintenance of erosion control systems will be the responsibility of the contractor. All locations where vehicles enter and exit the construction site and all other areas subject to erosion should also be inspected by the Contractor periodically. Inspection of these areas shall be made at least once every seven days and within 24 hours of the end of each 0.5 inches or greater rainfall, or an equivalent snowfall.
- The contractor shall be responsible for following all requirements of the Illinois Department of Natural Resources, Army Corps of Engineers and the Illinois Environmental Protection Agency.
- Contractor shall be responsible for contacting J.U.L.I.E (1-800-892-0123) prior to the start of any work.



NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
- Concrete Truck Washout will be paid for at the Contract unit price per Lump Sum.

CONCRETE WASHOUT AREA DETAIL

**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

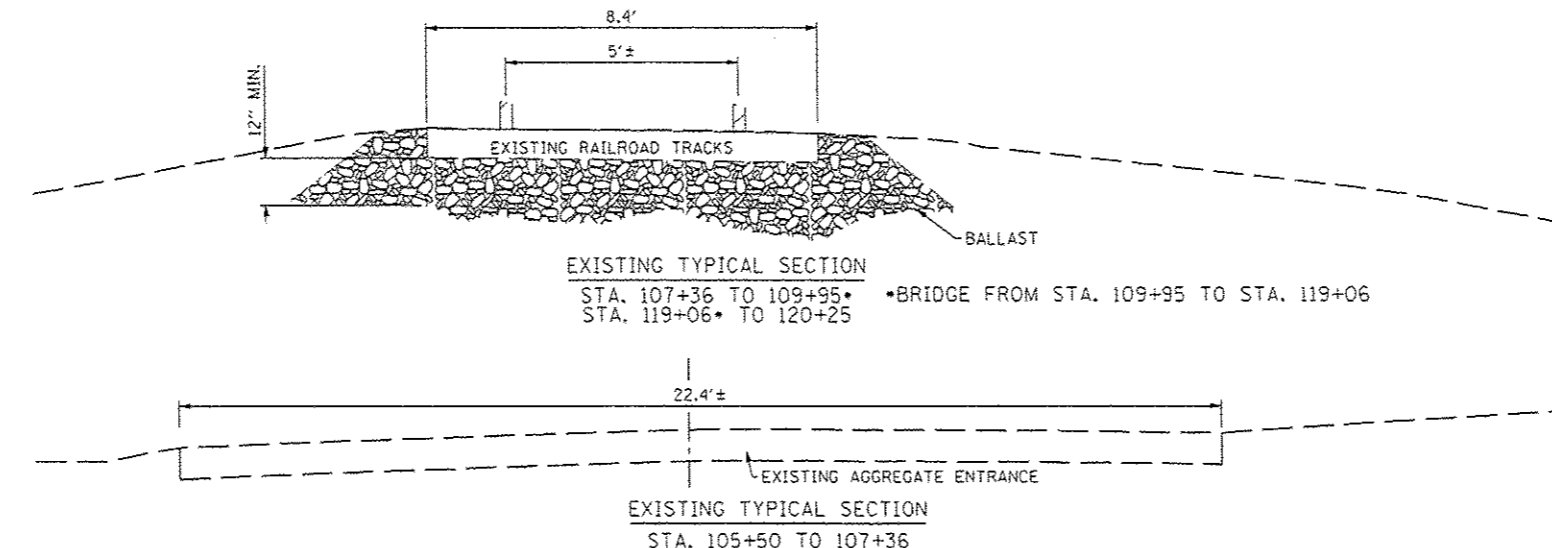
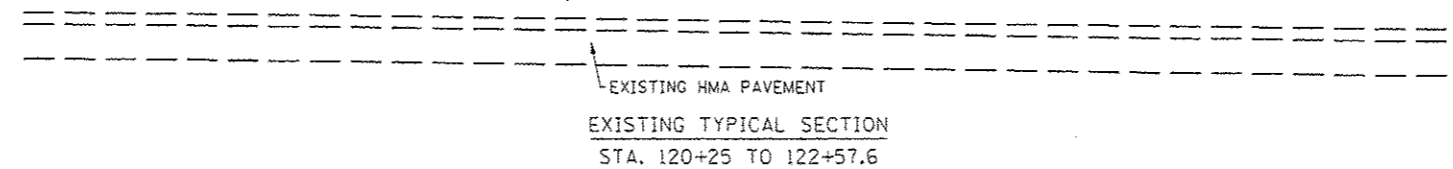
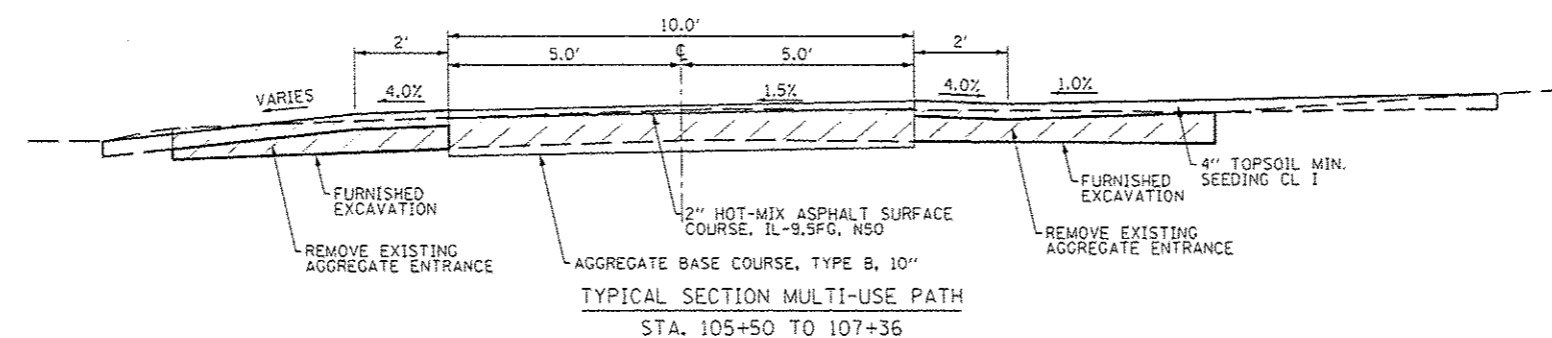
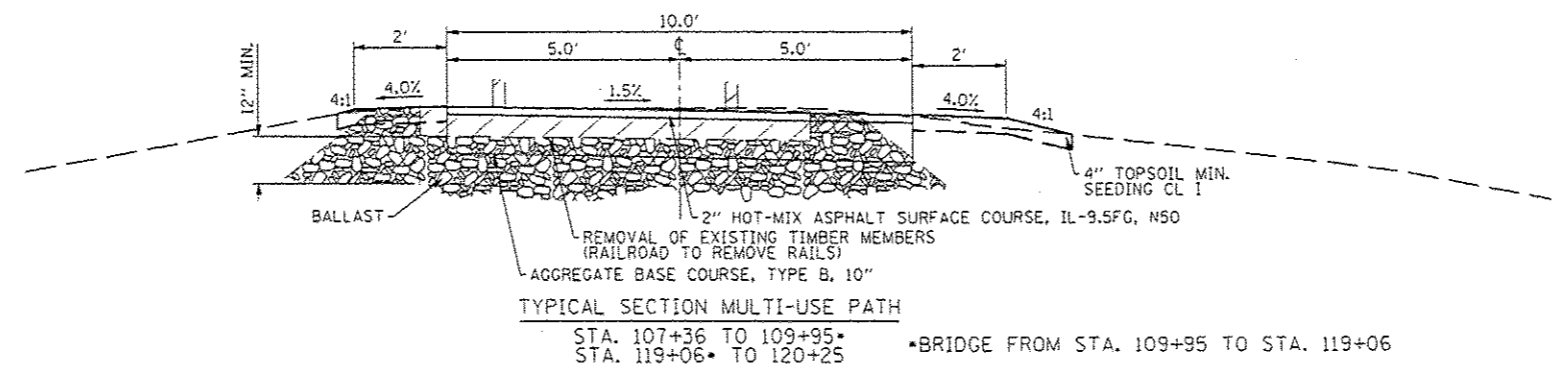
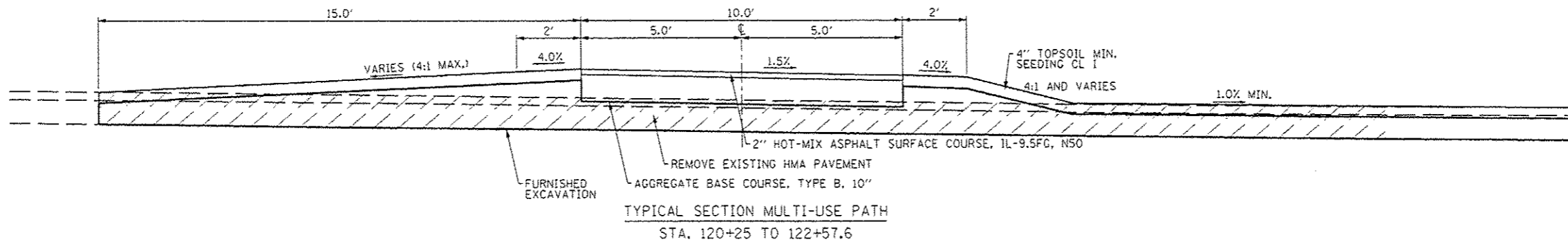
GENERAL NOTES



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CHECKED - CJB	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	3
	WHA# 1016R13		CONTRACT NO. 85620	
ILLINOIS FED. AID PROJECT 7E-002015B1				

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HMA MIX DESIGN

LOCATION AND MIXTURE USE(S):	SHARED USE PATH
PG:	PG 64-22
DESIGN AIR VOIDS	3.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5FG
FRICTION AGGREGATE	C
20 YEAR ESAL	N/A
MIX UNIT WEIGHT	112LBS/SY/IN
QUALITY MANAGEMENT PROGRAM TO BE USED	QC/QA



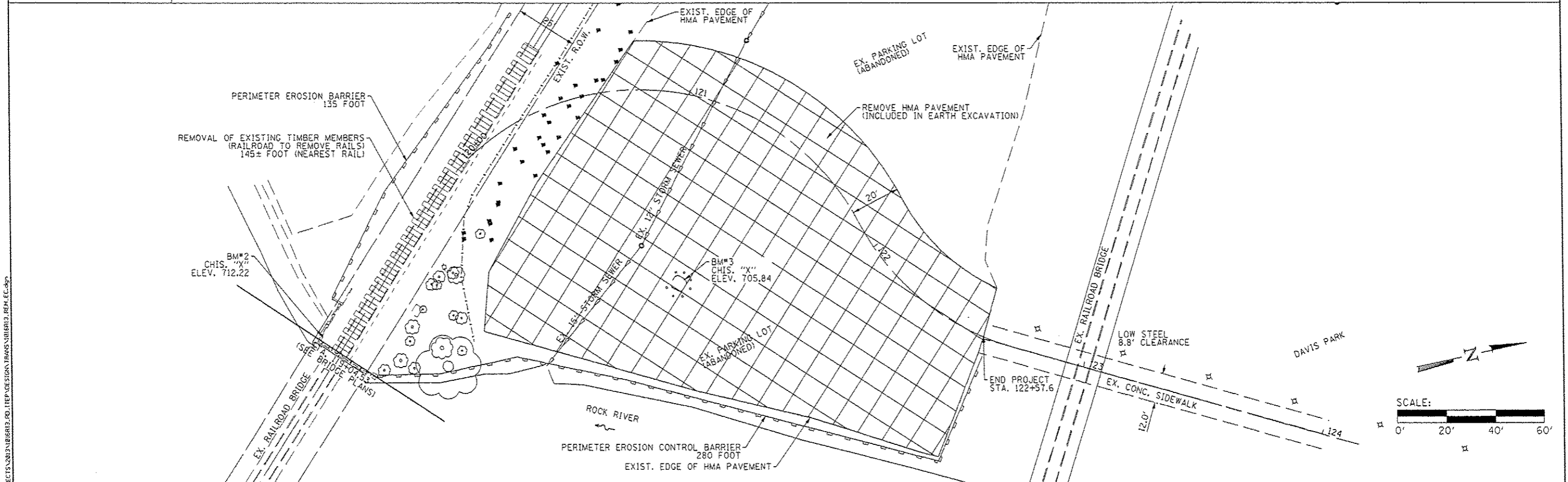
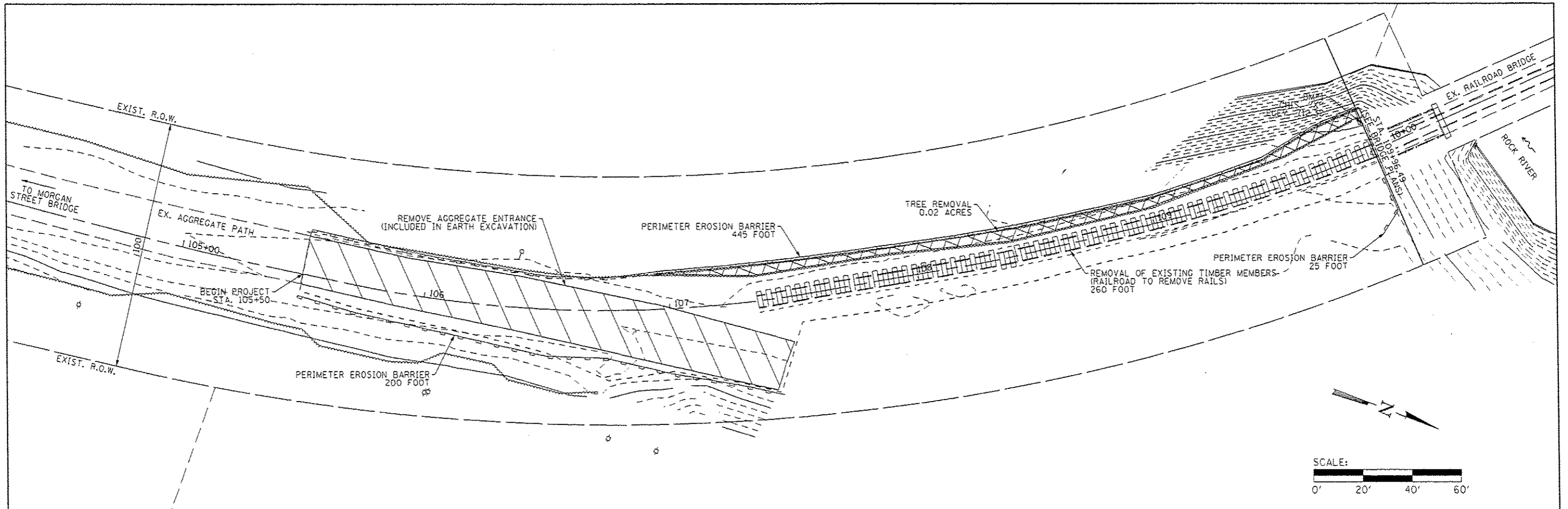
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CHECKED - CJB	REVISED -

**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

TYPICAL SECTIONS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	4
	WHA# 1016R13			CONTRACT NO. 85620
[ILLINOIS] FED. AID PROJECT TE-00021501				

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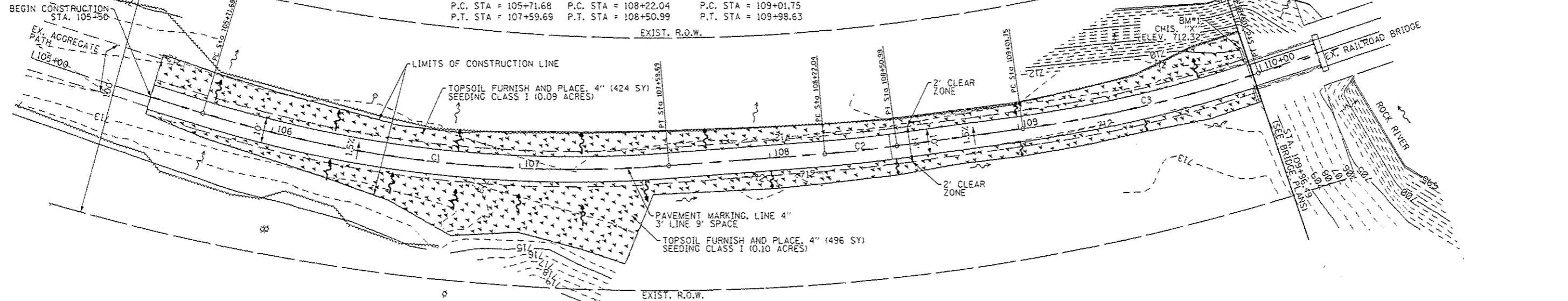
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DRAWN - TJA	REVISED -
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**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

REMOVAL AND EROSION CONTROL PLAN

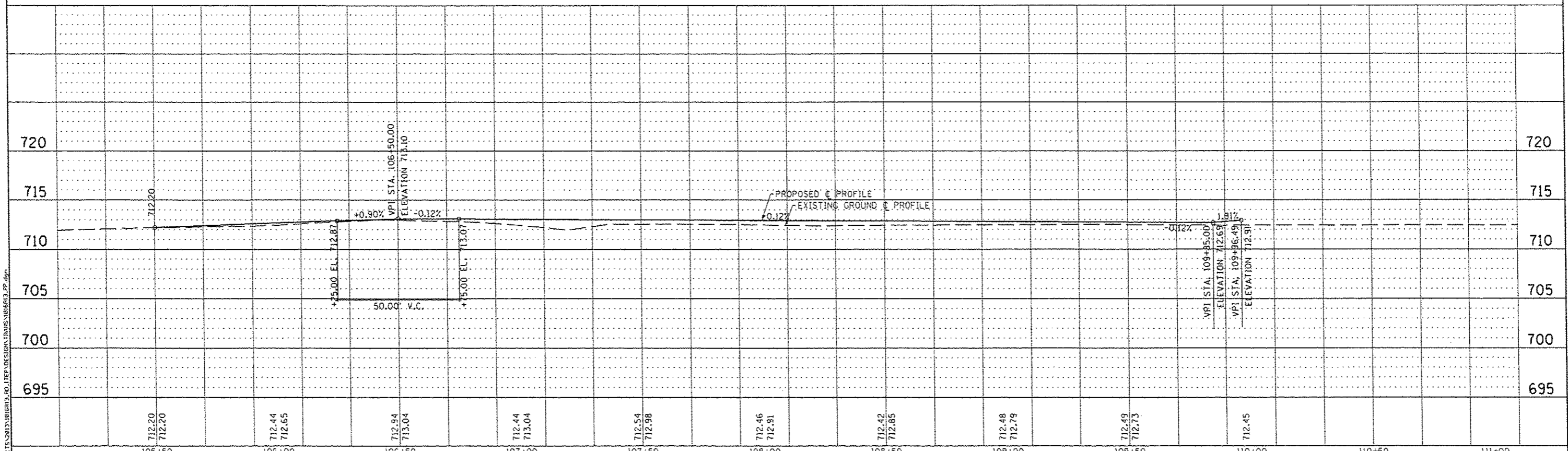
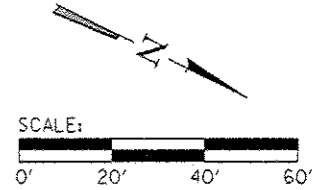
P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	5
	WHA# 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-00021581				

PROP. CURVE C1	PROP. CURVE C2	PROP. CURVE C3
PI STA. = 106+66.78	PI STA. = 108+36.52	PI STA. = 109+50.34
$\Delta = 21^\circ 19' 52''$ (LT)	$\Delta = 3^\circ 17' 03''$ (LT)	$\Delta = 10^\circ 59' 31''$ (LT)
D = 11° 20' 45"	D = 11° 20' 45"	D = 11° 20' 45"
R = 505.00'	R = 505.00'	R = 505.00'
T = 95.11'	T = 14.48'	T = 48.59'
L = 188.01'	L = 28.95'	L = 96.88'
E = 8.88'	E = 0.21'	E = 2.33'
e = -----	e = -----	e = -----
T.R. = -----	T.R. = -----	T.R. = -----
S.E. RUN = -----	S.E. RUN = -----	S.E. RUN = -----
P.C. STA. = 105+71.68	P.C. STA. = 108+22.04	P.C. STA. = 109+01.75
P.T. STA. = 107+59.69	P.T. STA. = 108+50.99	P.T. STA. = 109+98.63



LEGEND

TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS I
 FERTILIZER
 SHEET FLOW DIRECTION



712.20 712.20	712.44 712.65	712.94 713.04	712.44 713.04	712.54 712.98	712.46 712.91	712.42 712.85	712.48 712.79	712.49 712.73	712.45	
105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	111+00



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CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

PLAN AND PROFILE SHEET
MULTI-USE PATH

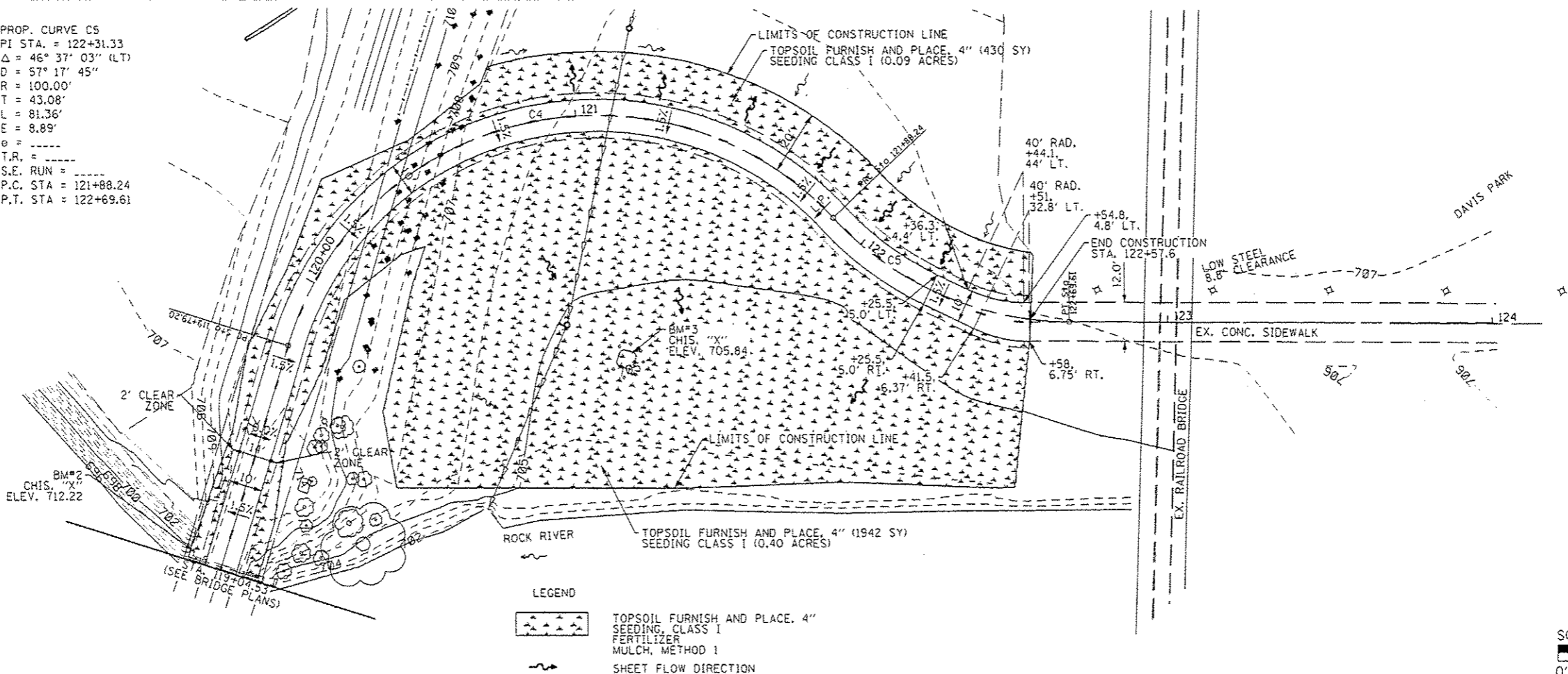
STA. 105+50.00 TO STA. 109+95.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	6
	WHA* 1016R13		CONTRACT NO. 85620	
ILLINOIS FED. AID PROJECT TE-0002150				

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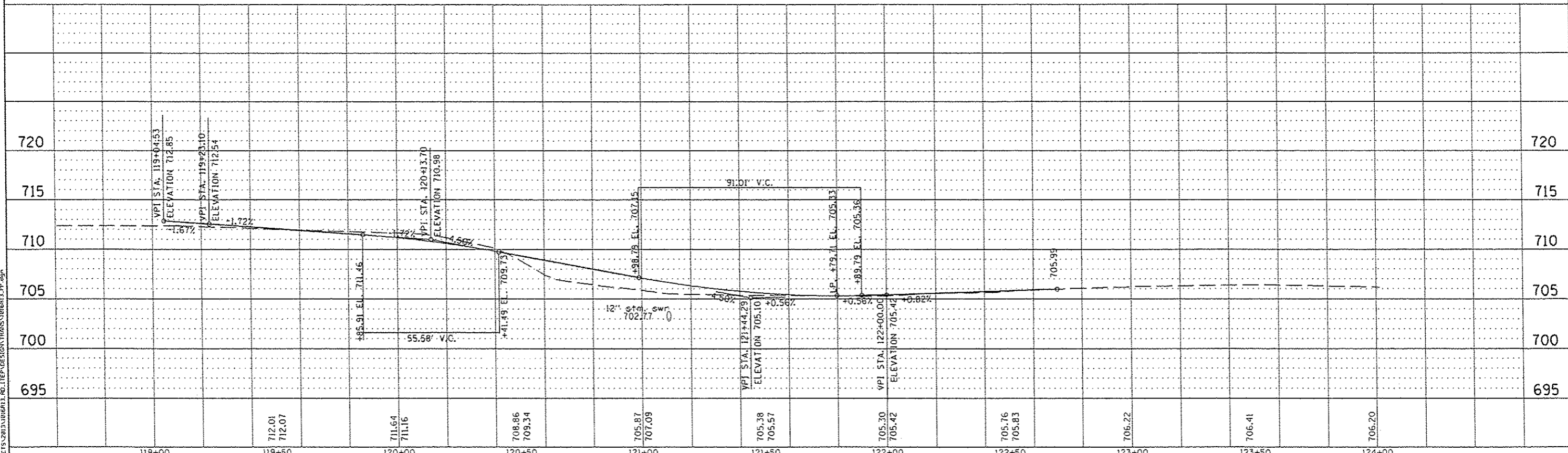
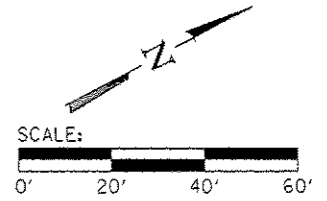
PROP. CURVE C4
 PI STA. = 121+51.61
 $\Delta = 119^\circ 46' 23''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 172.42'$
 $L = 209.04'$
 $E = 99.32'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA = 119+79.20$
 $P.T. STA = 121+88.24$

PROP. CURVE C5
 PI STA. = 122+31.33
 $\Delta = 46^\circ 37' 03''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 43.08'$
 $L = 81.36'$
 $E = 8.89'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA = 121+88.24$
 $P.T. STA = 122+69.61$



LEGEND

- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS I FERTILIZER MULCH, METHOD 1
- SHEET FLOW DIRECTION



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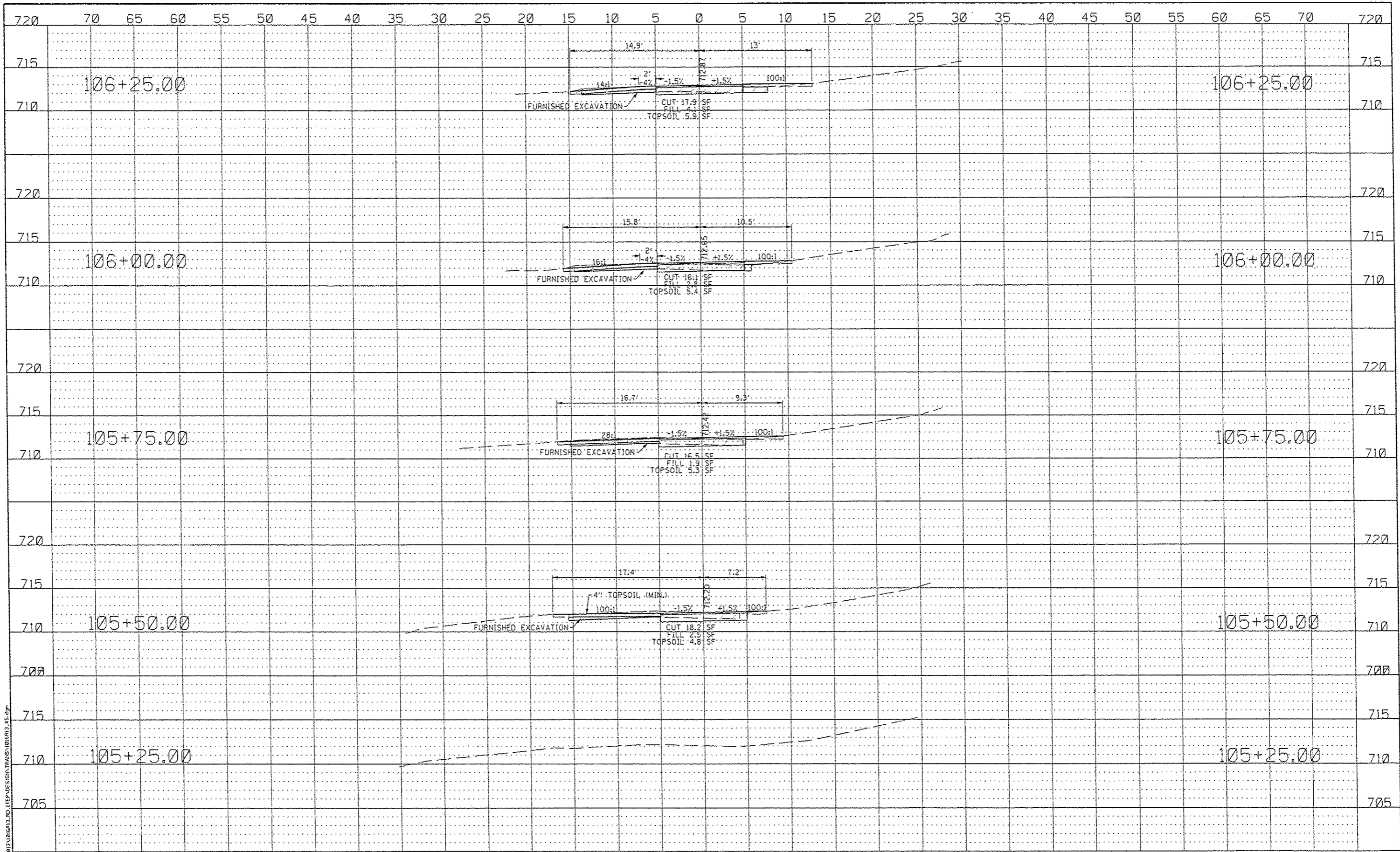
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CHECKED - CJB	REVISED -

**CITY OF ROCKFORD
 RAILS TO TRAILS OVER ROCK RIVER
 2015**

**PLAN AND PROFILE
 MULTI-USE PATH**

STA. 119+10.00 TO STA. 122+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	7
WHA# 1016R13		CONTRACT NO. 85620		
[ILLINOIS] FED. AID PROJECT TE-00021591				



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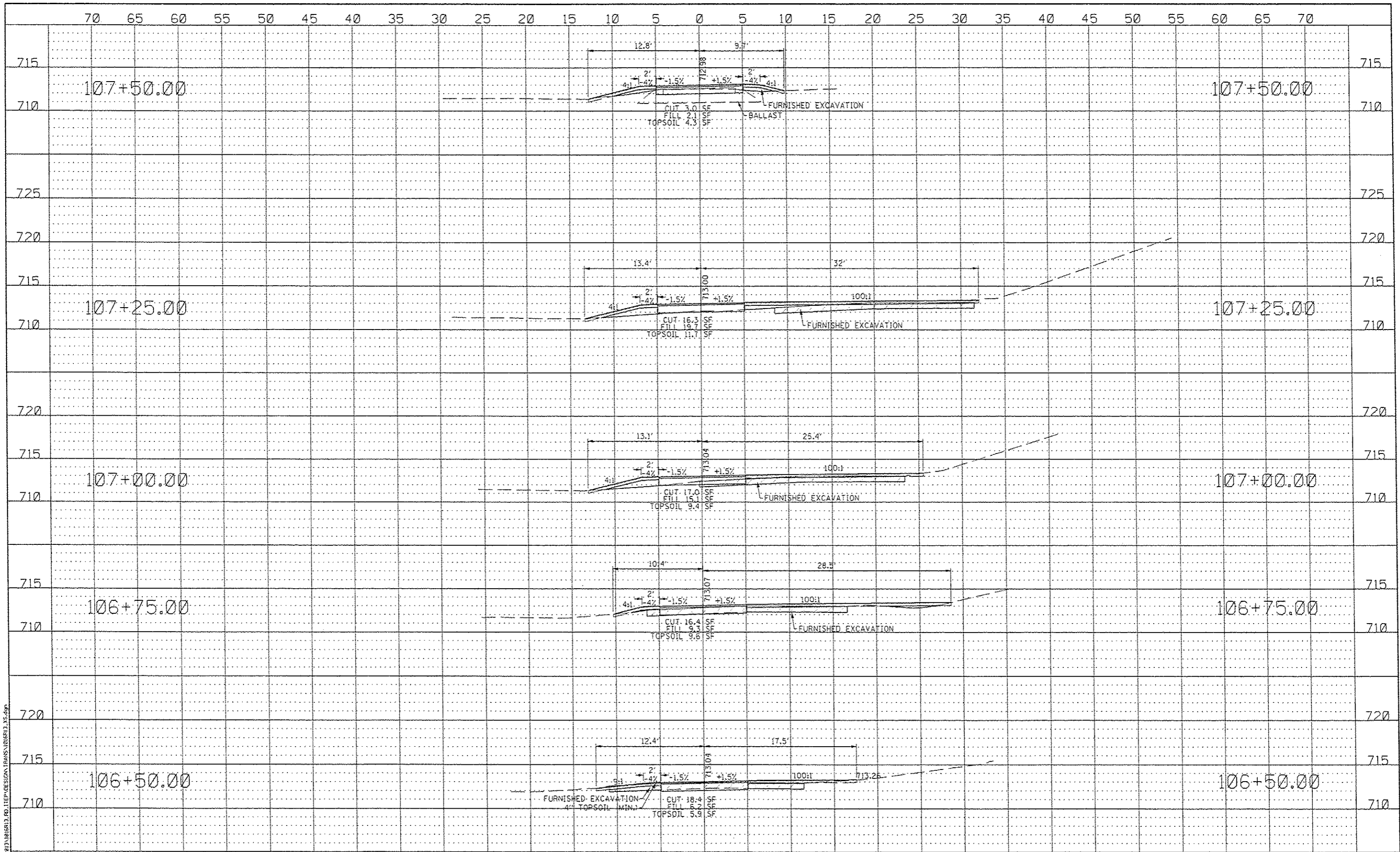
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**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**CROSS SECTIONS
EAST SIDE OF RIVER**

STA. 105+25.00 TO STA. 106+25.00

E.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	8
	WHA* 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-00220581				



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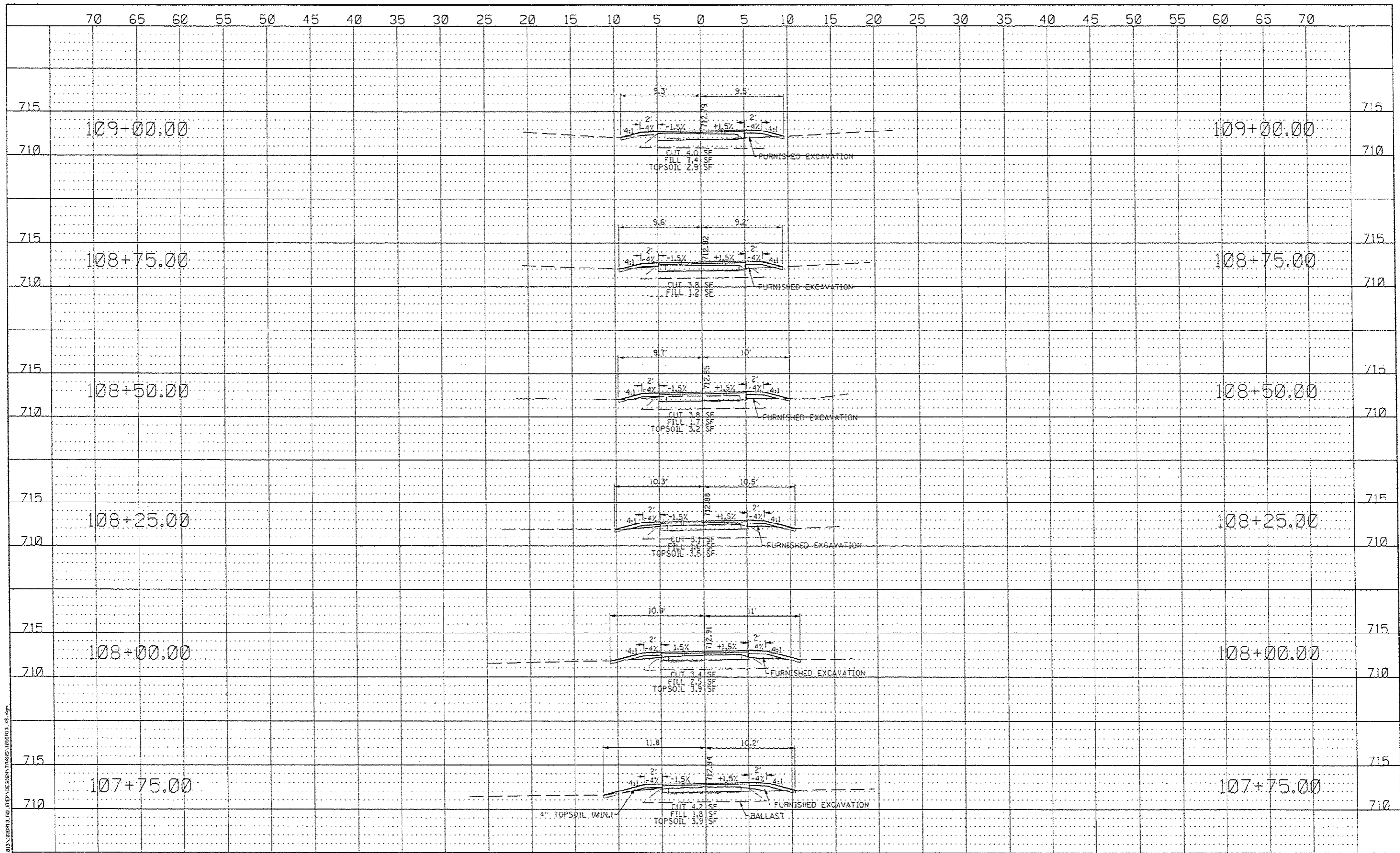
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**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**CROSS SECTIONS
EAST SIDE OF RIVER**

STA. 106+50.00 TO STA. 107+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	9
	WHA# 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-00021581				



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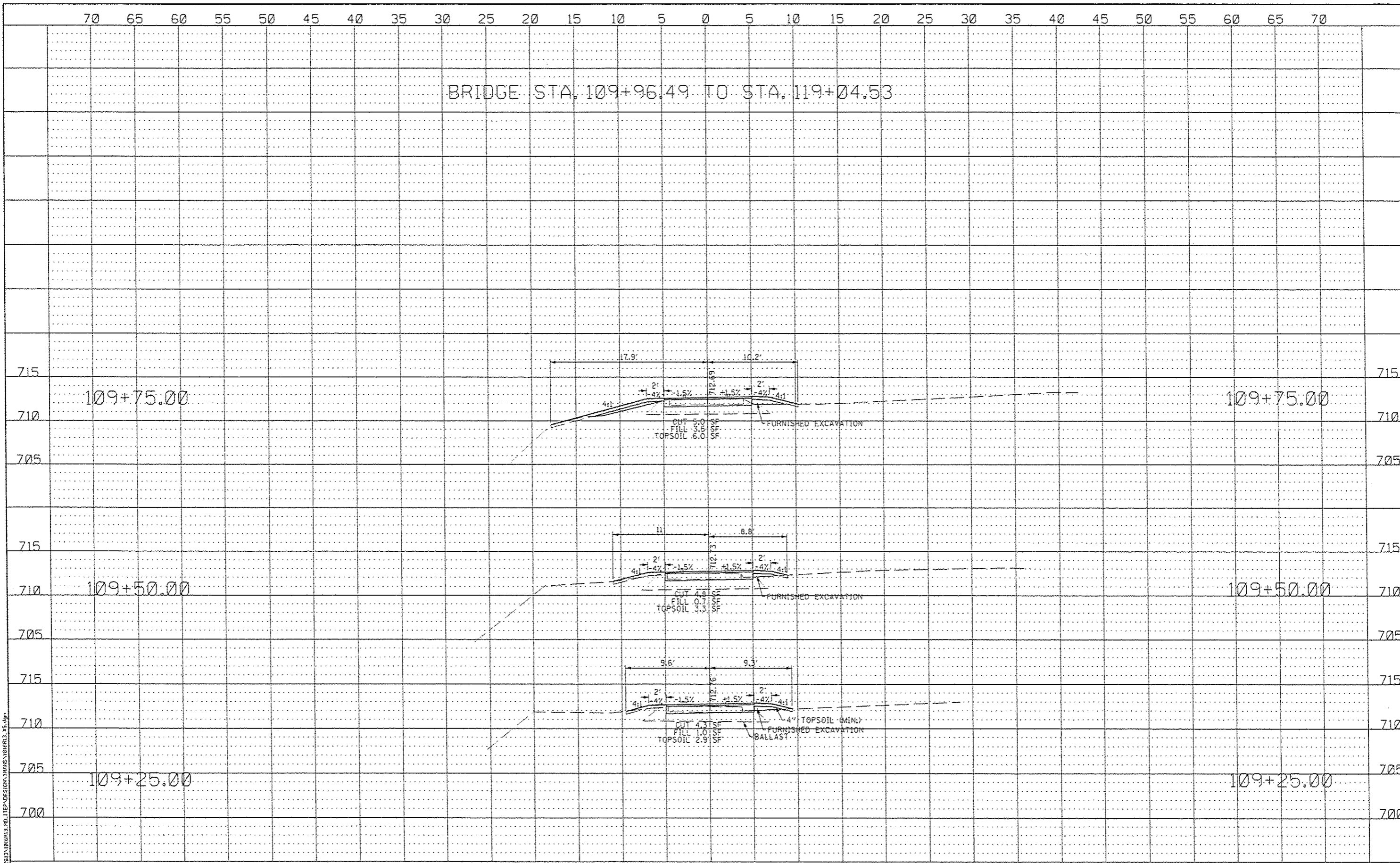
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**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**CROSS SECTIONS
EAST SIDE OF RIVER**
STA. 107+75.00 TO STA. 109+00.00

F.A.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	10
	WHA* 1016R13		CONTRACT NO. 85620	
			ILLINOIS FED. AID PROJECT TE-0020581	

BRIDGE STA. 109+96.49 TO STA. 119+04.53



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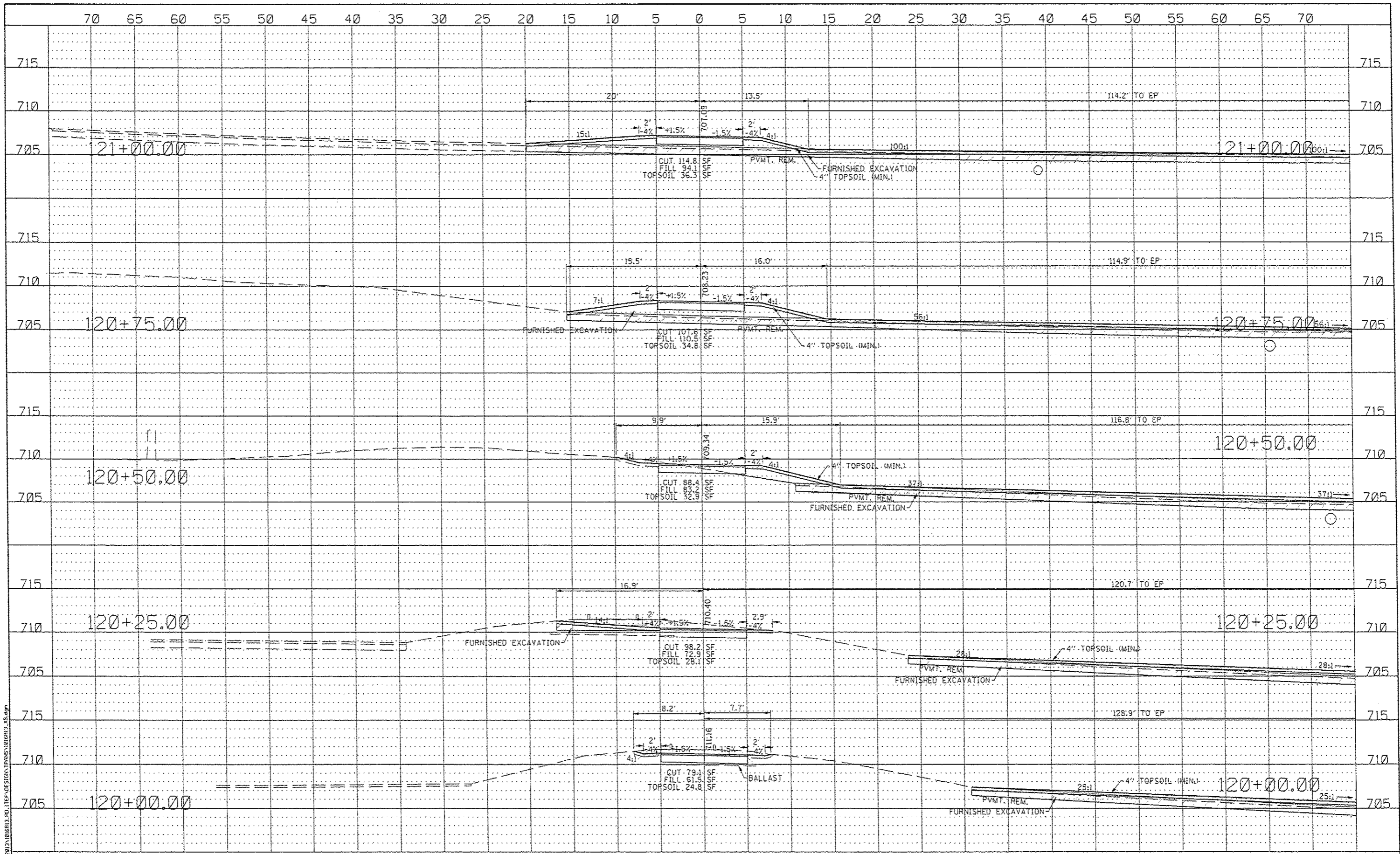


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CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

CROSS SECTIONS
EAST SIDE OF RIVER
 STA. 109+25.00 TO STA. 109+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	11
WHA* 1016R13		CONTRACT NO. 85620		
[ILLINOIS] FED. AID PROJECT TE-00021150				



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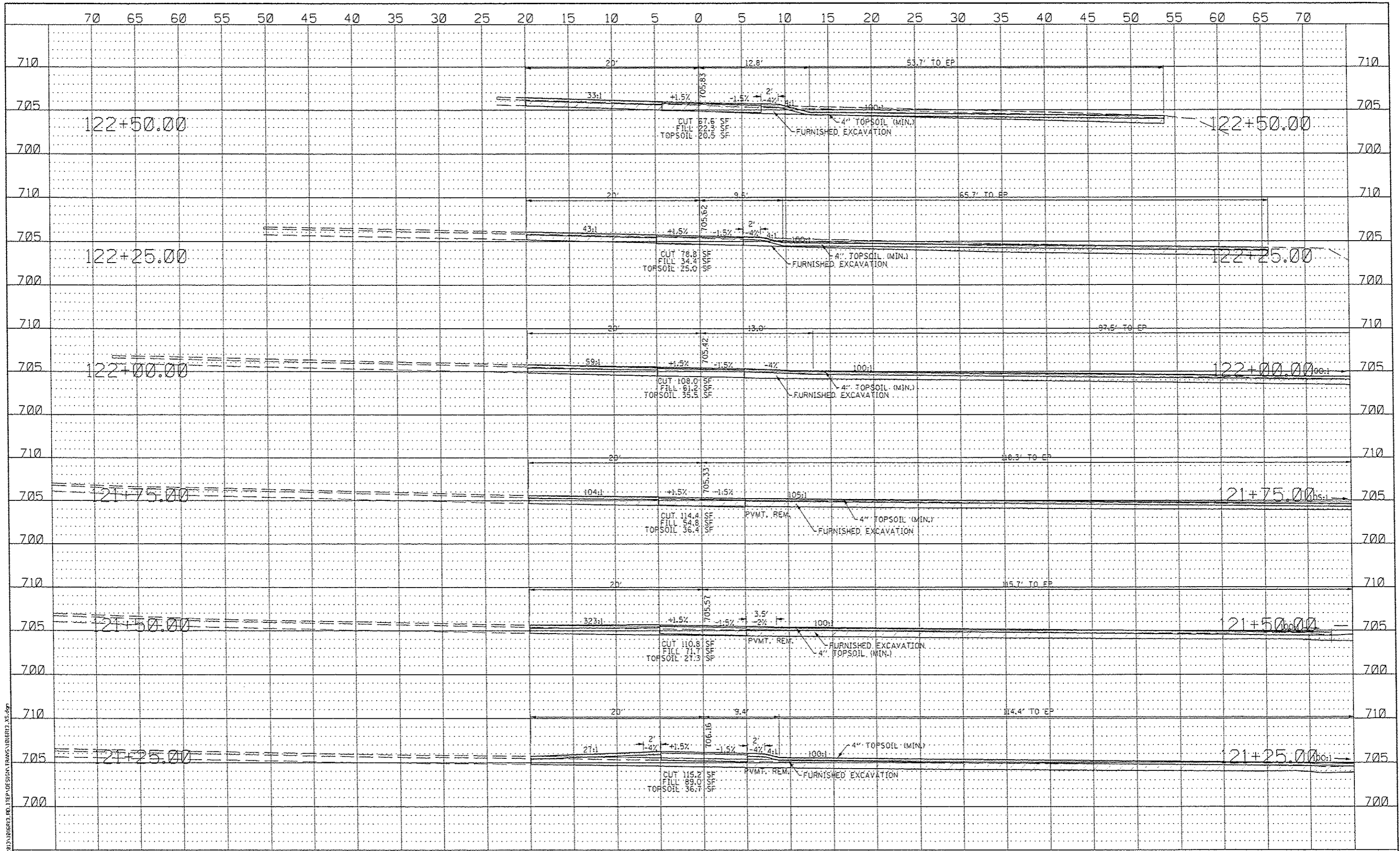
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CHECKED - CJB	REVISED -

**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**CROSS SECTIONS
WEST SIDE OF RIVER**

STA. 120+00.00 TO STA. 121+00.00

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-0608-00-BT	WINNEBAGO	38	13	
WHA* 1016R13	CONTRACT NO. 85620			
ILLINOIS FED. AID PROJECT TE-000(158)				



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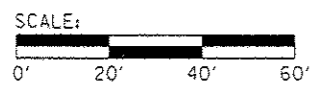
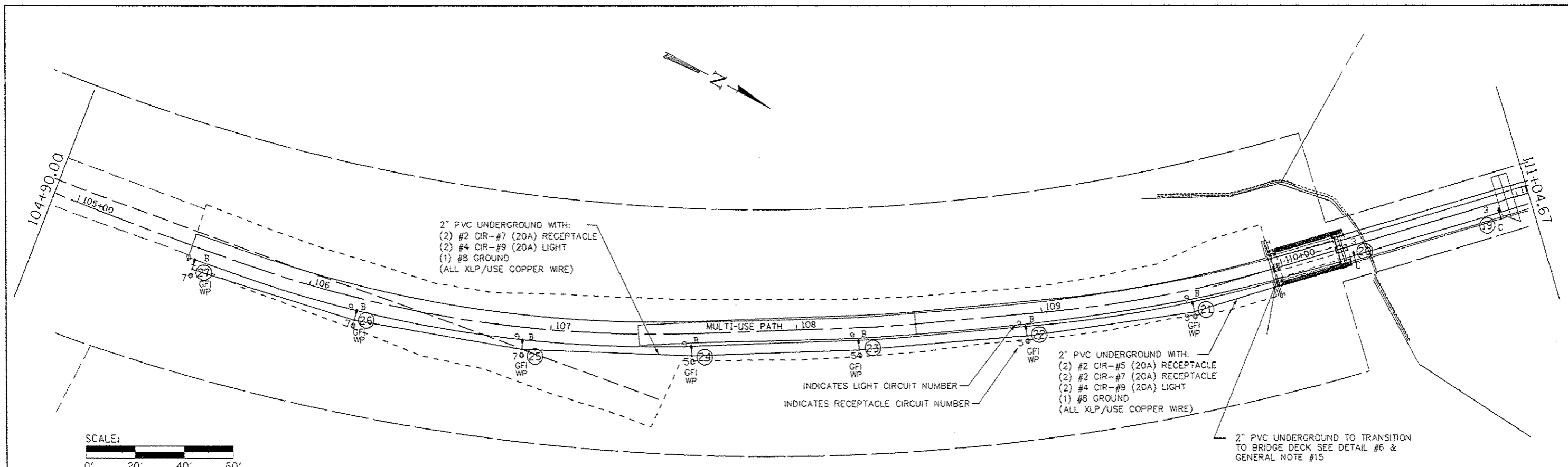


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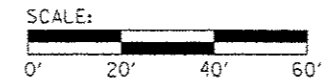
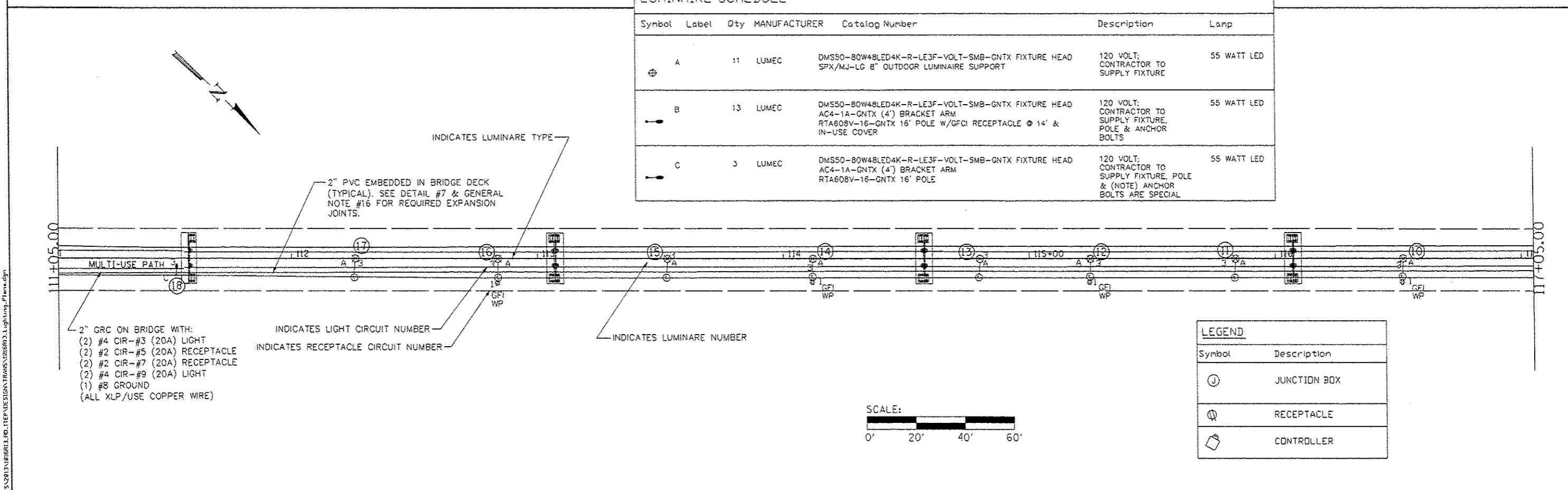
**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**CROSS SECTIONS
WEST SIDE OF RIVER**
STA. 121+25.00 TO STA. 122+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	14
	WHA 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-0002058				



LUMINAIRE SCHEDULE						
Symbol	Label	Qty	MANUFACTURER	Catalog Number	Description	Lamp
⊕	A	11	LUMEC	DMS50-80W48LED4K-R-LE3F-VOLT-SMB-GNTX FIXTURE HEAD SPX/MJ-LG 8" OUTDOOR LUMINAIRE SUPPORT	120 VOLT; CONTRACTOR TO SUPPLY FIXTURE	55 WATT LED
⊕	B	13	LUMEC	DMS50-80W48LED4K-R-LE3F-VOLT-SMB-GNTX FIXTURE HEAD AC4-1A-GNTX (4') BRACKET ARM RTA608V-16-GNTX 16' POLE W/GFCI RECEPTACLE ⊕ 14' & IN-USE COVER	120 VOLT; CONTRACTOR TO SUPPLY FIXTURE, POLE & ANCHOR BOLTS	55 WATT LED
⊕	C	3	LUMEC	DMS50-80W48LED4K-R-LE3F-VOLT-SMB-GNTX FIXTURE HEAD AC4-1A-GNTX (4') BRACKET ARM RTA608V-16-GNTX 16' POLE	120 VOLT; CONTRACTOR TO SUPPLY FIXTURE, POLE & (NOTE) ANCHOR BOLTS ARE SPECIAL	55 WATT LED



LEGEND	
Symbol	Description
⊕	JUNCTION BOX
⊕	RECEPTACLE
⊕	CONTROLLER

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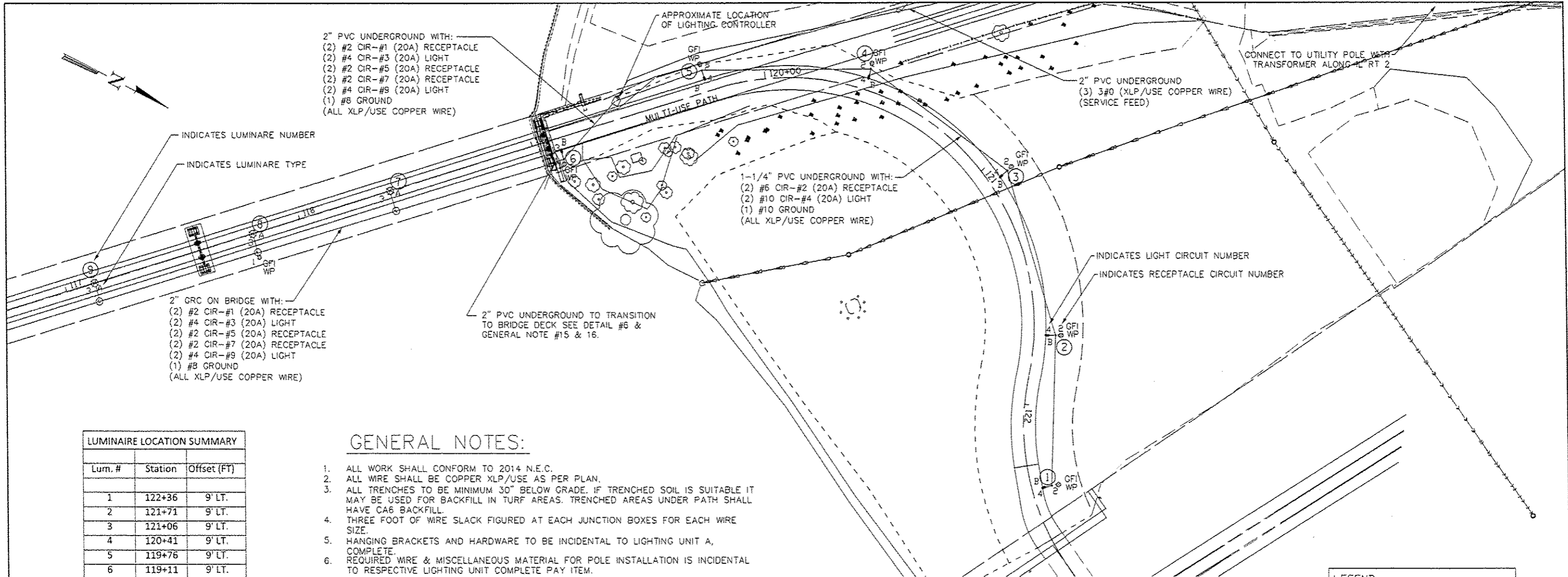
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**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**LIGHTING PLAN
MULTI-USE PATH**

STA. 104+90 TO STA. 117+05

F.A. R.Y.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	15
	WHA* 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-0002159				



2" PVC UNDERGROUND WITH:
 (2) #2 CIR-#1 (20A) RECEPTACLE
 (2) #4 CIR-#3 (20A) LIGHT
 (2) #2 CIR-#5 (20A) RECEPTACLE
 (2) #2 CIR-#7 (20A) RECEPTACLE
 (2) #4 CIR-#9 (20A) LIGHT
 (1) #8 GROUND
 (ALL XLP/USE COPPER WIRE)

INDICATES LUMINAIRE NUMBER
 INDICATES LUMINAIRE TYPE

2" GRC ON BRIDGE WITH:
 (2) #2 CIR-#1 (20A) RECEPTACLE
 (2) #4 CIR-#3 (20A) LIGHT
 (2) #2 CIR-#5 (20A) RECEPTACLE
 (2) #2 CIR-#7 (20A) RECEPTACLE
 (2) #4 CIR-#9 (20A) LIGHT
 (1) #8 GROUND
 (ALL XLP/USE COPPER WIRE)

2" PVC UNDERGROUND TO TRANSITION TO BRIDGE DECK SEE DETAIL #6 & GENERAL NOTE #15 & 16.

1-1/4" PVC UNDERGROUND WITH:
 (2) #6 CIR-#2 (20A) RECEPTACLE
 (2) #10 CIR-#4 (20A) LIGHT
 (1) #10 GROUND
 (ALL XLP/USE COPPER WIRE)

INDICATES LIGHT CIRCUIT NUMBER
 INDICATES RECEPTACLE CIRCUIT NUMBER

CONNECT TO UTILITY POLE WITH TRANSFORMER ALONG RT 2

LUMINAIRE LOCATION SUMMARY

Lum. #	Station	Offset (FT)
1	122+36	9' LT.
2	121+71	9' LT.
3	121+06	9' LT.
4	120+41	9' LT.
5	119+76	9' LT.
6	119+11	9' LT.
7*	118+39	0
8*	117+80	0
9*	117+12	0
10*	116+52	0
11*	115+84	0
12*	115+25	0
13*	114+80	0
14*	114+12	0
15*	113+53	0
16*	112+84	0
17*	112+26	0
18	111+53	6' 9" RT.
19	110+91	6' 9" RT.
20	110+29	6' 9" RT.
21	109+61	9' RT.
22	108+93	9' RT.
23	108+25	9' RT.
24	107+57	9' RT.
25	106+89	9' RT.
26	106+21	9' RT.
27	105+53	9' RT.

GENERAL NOTES:

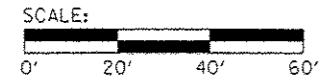
- ALL WORK SHALL CONFORM TO 2014 N.E.C.
- ALL WIRE SHALL BE COPPER XLP/USE AS PER PLAN.
- ALL TRENCHES TO BE MINIMUM 30" BELOW GRADE. IF TRENCHED SOIL IS SUITABLE IT MAY BE USED FOR BACKFILL IN TURF AREAS. TRENCHED AREAS UNDER PATH SHALL HAVE CA6 BACKFILL.
- THREE FOOT OF WIRE SLACK FIGURED AT EACH JUNCTION BOXES FOR EACH WIRE SIZE.
- HANGING BRACKETS AND HARDWARE TO BE INCIDENTAL TO LIGHTING UNIT A, COMPLETE.
- REQUIRED WIRE & MISCELLANEOUS MATERIAL FOR POLE INSTALLATION IS INCIDENTAL TO RESPECTIVE LIGHTING UNIT COMPLETE PAY ITEM.
- SIX FOOT OF CONDUIT HAS BEEN ADDED TO PAY ITEM FOOTAGE AT EACH CONCRETE BASE.
- REQUIRED GROUNDING AND MISCELLANEOUS MATERIAL IS INCIDENTAL TO THE POLE CONCRETE FOUNDATION PAY ITEM.
- SIX FOOT OF WIRE SLACK FIGURED AT EACH CONCRETE BASE FOR EACH WIRE SIZE.
- TEN FOOT OF WIRE SLACK FIGURED AT THE LIGHTING CONTROLLER FOR EACH WIRE SIZE.
- FIFTY FOOT OF WIRE SLACK FIGURED AT THE UTILITY POLE AND AT THE METER/CONTROLLER FOR THE SERVICE WIRE.
- PERFORM JULIE AS REQUIRED FOR EXISTING UTILITIES. COORDINATE WITH CITY OF ROCKFORD AND ANY PROPERTY OWNER'S FOR POSSIBLE OWNER OWNED UNDERGROUND ITEMS THAT WILL NOT BE MARKED BY JULIE. OWNER OWNED UNDERGROUND ITEMS TO BE LOCATED BY CONTRACTOR FOR THEIR SCOPE OF WORK. CONTRACTOR TO BE PAID FOR ACTUAL UNITS & FOOTAGES INSTALLED.
- AS-BUILD UNDERGROUND CONDUIT ROUTINGS & FOOTAGES WILL BE REQUIRED.
- ANY EXPOSED CONDUITS WILL BE GALVANIZED HEAVY WALL (GRC) TYPICAL. (GRC) WILL BE INCIDENTAL TO THE PARTICULAR PAYMENT ITEM.
- ANY REQUIRED EXPANSION JOINTS WILL BE INCIDENTAL TO THE PARTICULAR PAYMENT ITEM.
- ANCHOR BOLTS AND VIBRATION PAD FOR THE LIGHT POLE ON THE DECK WILL BE INCIDENTAL TO CONCRETE SUPERSTRUCTURES.

Symbol	Description
(J)	JUNCTION BOX
(R)	RECEPTACLE
(C)	CONTROLLER

LUMINAIRE SCHEDULE

Symbol	Label	Qty	MANUFACTURER	Catalog Number	Description	Lamp
(A)	A	11	LUMEC	DMS50-BOW48LED4K-R-LE3F-VOLT-SMB-GNTX FIXTURE HEAD SPX/MJ-LG 8" OUTDOOR LUMINAIRE SUPPORT	120 VOLT; CONTRACTOR TO SUPPLY FIXTURE	55 WATT LED
(B)	B	13	LUMEC	DMS50-BOW48LED4K-R-LE3F-VOLT-SMB-GNTX FIXTURE HEAD AC4-1A-GNTX (4') BRACKET ARM RTA608V-16-GNTX 16' POLE W/GFCI RECEPTACLE @ 14' & IN-USE COVER	120 VOLT; CONTRACTOR TO SUPPLY FIXTURE, POLE & ANCHOR BOLTS	55 WATT LED
(C)	C	3	LUMEC	DMS50-BOW48LED4K-R-LE3F-VOLT-SMB-GNTX FIXTURE HEAD AC4-1A-GNTX (4') BRACKET ARM RTA608V-16-GNTX 16' POLE	120 VOLT; CONTRACTOR TO SUPPLY FIXTURE, POLE & (NOTE) ANCHOR BOLTS ARE SPECIAL	55 WATT LED

*LUMINAIRES 7 TO 17 SHALL BE MOUNTED TO THE HORIZONTAL TRUSS OVERHEAD. EXACT LOCATIONS SHALL BE FIELD VERIFIED.



DESIGNED -	JRR	REVISED -	
CHECKED -		REVISED -	
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CHECKED -		REVISED -	

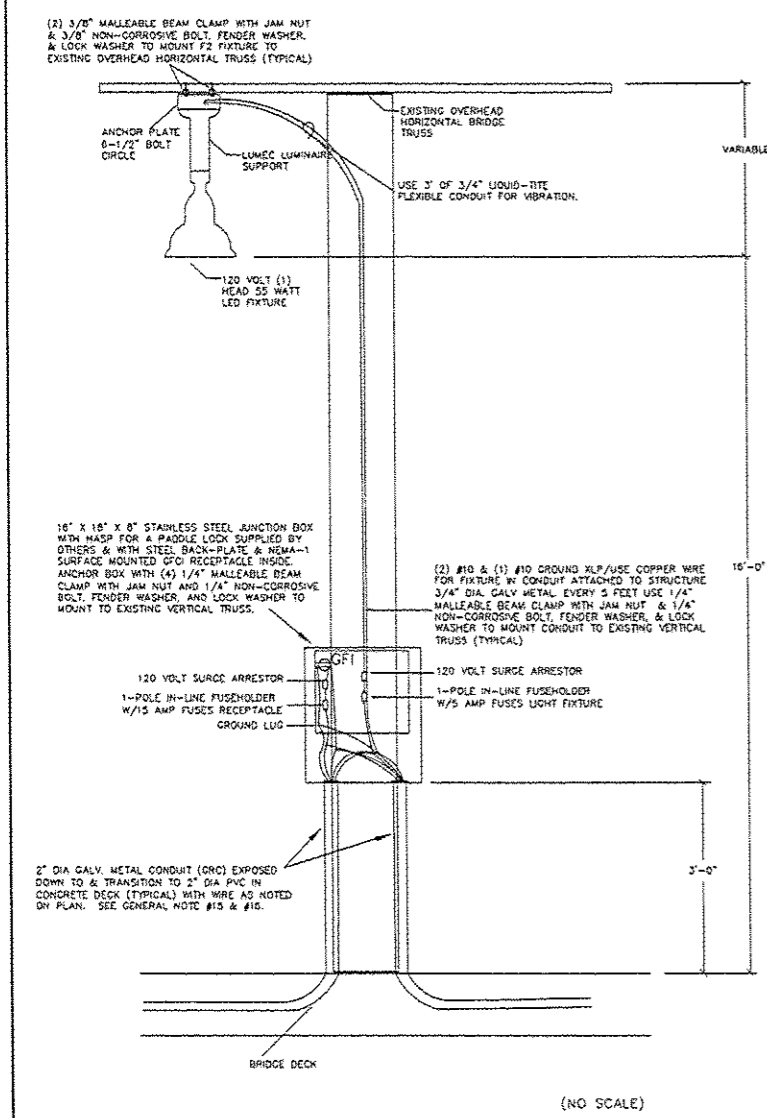
CITY OF ROCKFORD
 RAILS TO TRAILS OVER ROCK RIVER
 2015

LIGHTING PLAN
 MULTI-USE PATH

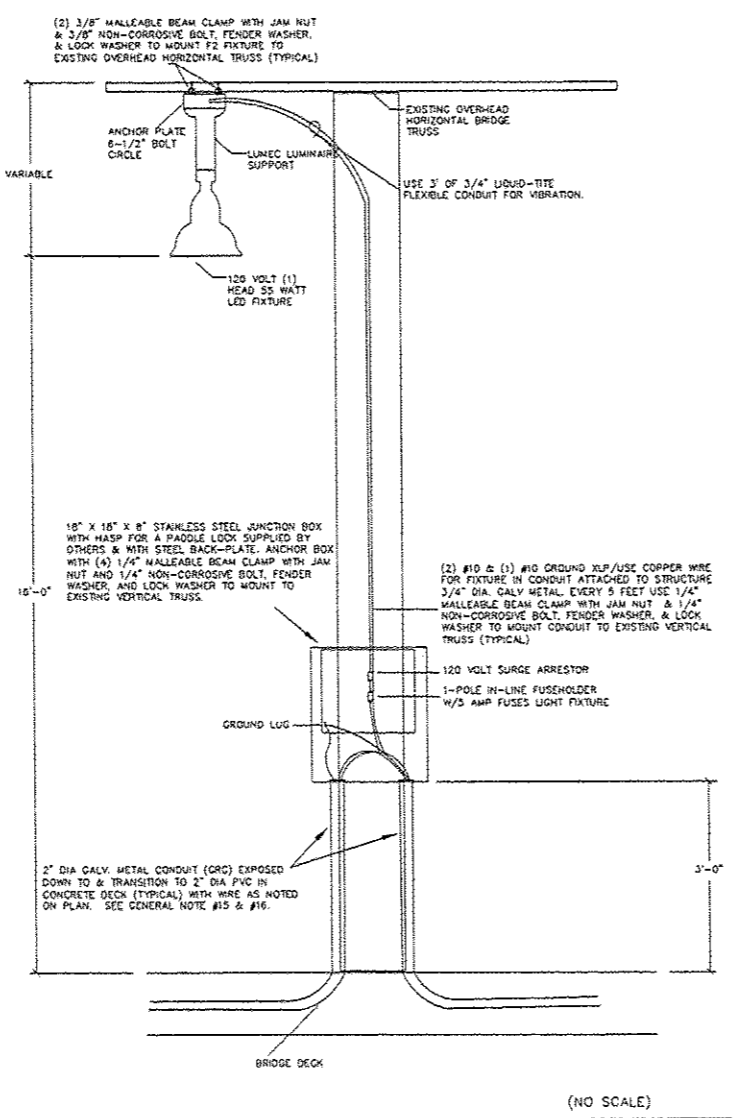
STA. 116+74 TO STA. 122+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA* 1016R13		CONTRACT NO. 85620		
[ILLINOIS] FED. AID PROJECT TE-00001950				

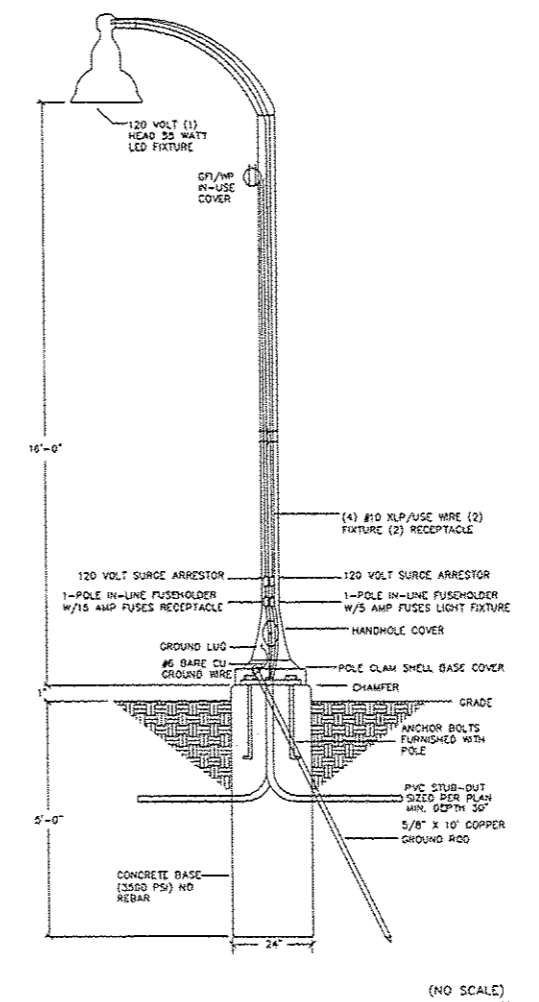
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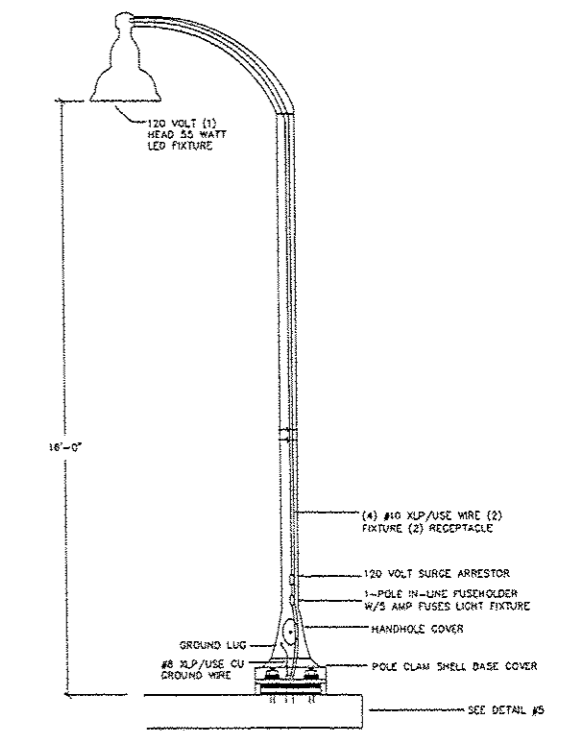
LIGHTING UNIT A, COMP. & J-BOX WITH GFCI RECEPTACLE DETAIL #1



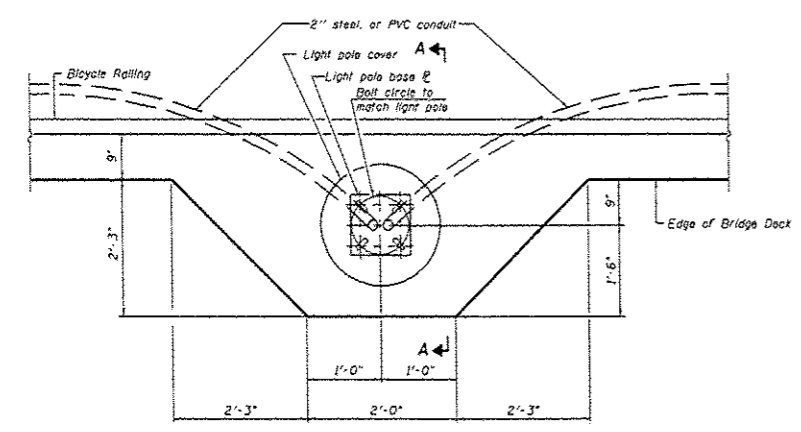
LIGHTING UNIT A, COMP. & J-BOX DETAIL #2



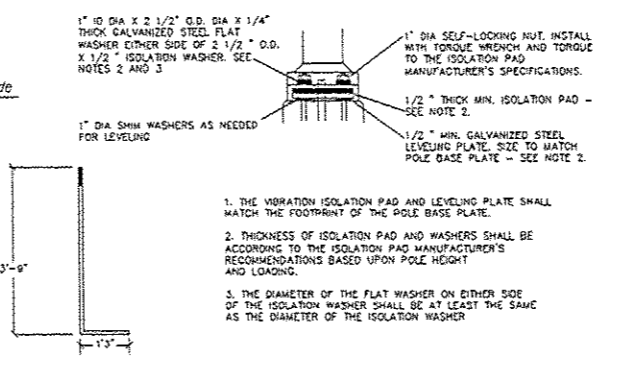
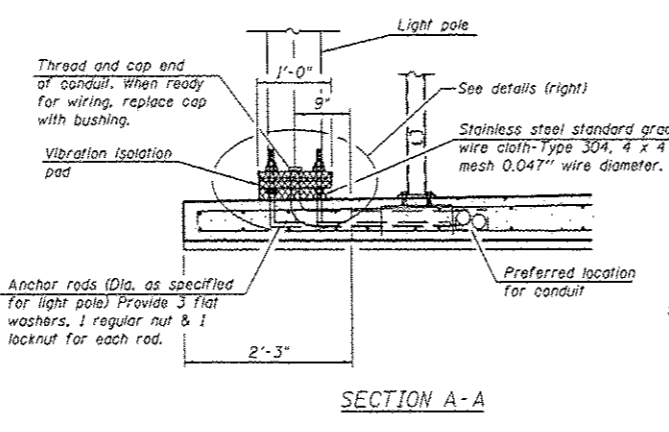
LIGHTING UNIT B, COMP. DETAIL #3



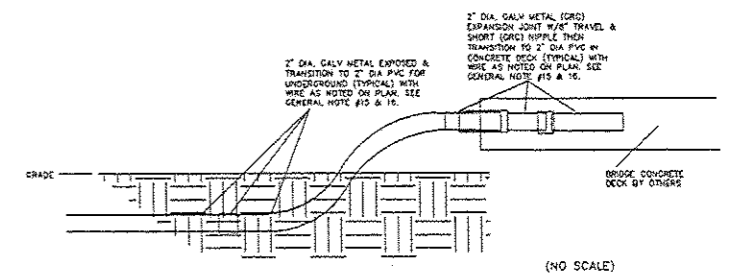
POLE MOUNTED ON BRIDGE PARAPET LIGHTING UNIT C, COMP. DETAIL #4



LIGHTING UNIT C, BUMPOUT DETAIL #5



(GRC) EXPANSION JOINT DETAIL #6



(PVC) EXPANSION JOINT DETAIL #7

DESIGNED -	JRR	REVISED -	
CHECKED -		REVISED -	
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CHECKED -		REVISED -	

CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

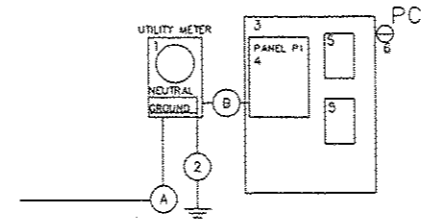
LIGHTING PLAN
MULTI-USE PATH

F.A. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	17
	WMA* 1016R13			CONTRACT NO. 85620
[ILLINOIS] FED. AID PROJECT 7E-0002(158)				

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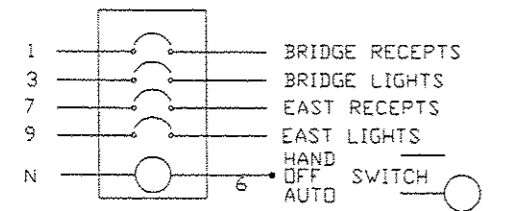
PANEL NAME: P-1		CCT NAME: CITY OF ROCKFORD WALK PATH	
PANEL LOCATION: CONTROL CABINET		SER: (3) #3 & (1) #8 XLP/USE COPPER WIRE	
BUSSING AMPS: 100		VOLTAGE: 120/240	
MOUNTING: SURFACE		LPH AIC RATING: 10,000	
BUS: COPPER		MAINS: MAIN	
		TYPE: BOLT-IN	
		HL	

CCT	CB	NOM	DESCRIPTION	AMPS	AS VA	BS VA	CCT	CB	NOM	DESCRIPTION	AMPS
1	20	1	(7) BRIDGE RECEIPT 1.5A/EA	10.5	2,160.00		2	20	1	(5) FT LTS WEST RECEIPT 1.5A	7.5
3	20	1	(15) BRIDGE LIGHTS .46/EA	6.9		1,104.00	4	20	1	(5) FT LTS WEST .46A/EA	2.3
5	20	1	SPARE	0	6.00		6	20	1	PHOTO-CELL	0.05
7	20	1	(3) LT RECEIPTS EAST 1.5/EA	4.5		540.00	8	20	1	SPARE	0
9	20	1	(7) LIGHTS EAST 1.5/EA	3.22	386.40		10	20	1	SPARE	0
11	20	1	(4) LT RECEIPTS EAST 1.5/EA	6		720.00	12	20	1	SPACE	0
13	20	1	SPARE	0	0.00		14	20	1	SPACE	0
15	20	1	SPACE	0	0.00		16	20	1	SPACE	0
17	20	1	SPACE	0	0.00		18	20	1	SPACE	0
TOTAL VOLT/AMPS /PER PHASE:				3,752.40	3,564.00						
AVERAGE PER PHASE:				31.27	29.70						
AVERAGE AMPERAGE:				30.49							
(DUTY CYCLE) TOTAL LOAD IS 80% OVERALL:				21.34							

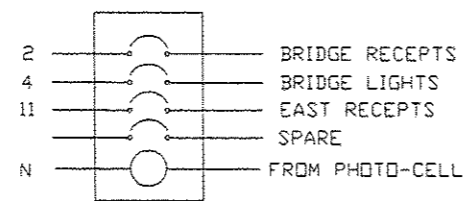


- NOTES: 1. 100 AMP 1-PH 3W (NO MAIN) UTILITY METER (CECHA); MOUNT TO BACK SIDE OF LIGHTING CONTROLLER.
 2. #4 CU TO (3) 3/4" X 10' LONG COPPER GROUND RODS (MINIMUM 6' APART TRIANGLE).
 3. 72" TALL X 36" WIDE X 18" DEEP STAINLESS PEDESTAL LOCKABLE HINGED COVER BOX WITH STEEL BACK-PANEL.
 4. P1 AND BREAKERS SHALL BE RATED NOT LESS THAN 10,000 A.I.C. (SEE PANEL SCHEDULE).
 5. LIGHTING CONTACTORS NEMA 1 ENCLOSURE (SEE DETAIL).
 6. PHOTO-CELL (SEE DETAIL).
- FEEDS: A. 2" PVC UNDERGROUND (3) 3#0 XLP/USE COPPER WIRE.
 B. 1-1/4" GRC NIPPLE WITH (3) #3 & (1) #8 XLP/USE COPPER WIRE.

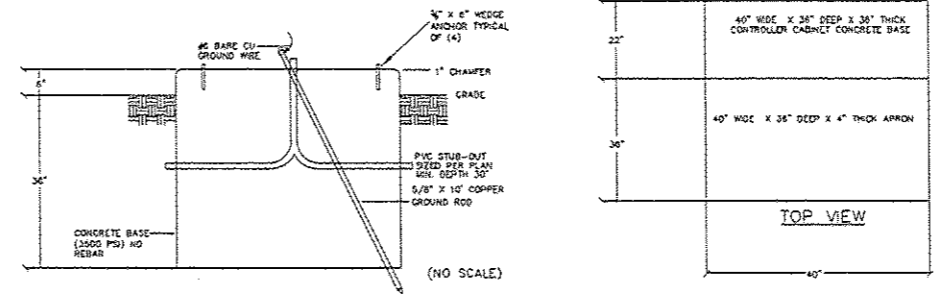
POWER RISER DIAGRAM
 NTS



EXTERIOR LIGHTS CONTROL #1



EXTERIOR LIGHTS CONTROL #2



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET DETAIL
 (NO SCALE)

ELECTRICAL SPECIFICATIONS:

- 1.01. WORK INCLUDES
 - A. Light Fixtures.
 - B. Trench & backfill.
 - C. Raceways.
 - D. Wires and necessary terminating materials.
 - E. Boxes.
 - F. Supporting devices.
- 1.02. REGULATORY REQUIREMENTS
 - A. National Electrical Code, NEC (2014)
 - 1. Comply with NEC/NFPA No. 70, for construction and installation of basic materials.
 - 2. NEC 300-21: Wiring Methods; Spread of Fire or Products of Combustion.
 - 3. Building code for the city of Rockford.
 - B. Underwriter's Laboratories, UL:
 - 1. All basic materials listed and labeled by UL.
- 1.03. REFERENCED
 - A. American National Standards Institute, ANSI:
 - 1. C80.3: Specification for Electrical Metallic Tubing, Zinc Coated.
 - B. National Electrical Manufacturer's Association, NEMA:
 - 1. Enclosures: Publication 250.
 - a. Type 1: indoor use, atmospheric conditions normal.
 - C. Underwriter's Laboratories, UL
- 1.04. REQUIRED SUBMITTALS
 - A. Shop Drawings:
 - 1. Submit drawings for:
 - a. Lighting fixtures.
 - b. Poles
 - c. Meter Base
 - d. Electrical Panel
 - e. Stainless Steel Enclosures
 - f. Contactors
 - g. Receptacles
- 1.05. PROJECT RECORD DOCUMENTS
 - A. Accurately record on drawings actual locations and wiring methods and "As-built" record documents.
 - B. Submit for Architect's review.
- 1.06. DRAWINGS AND SPECIFICATIONS
 - A. Any required utility will be arranged and paid for by the Owner.
 - B. Work is to be completed as per the Illinois Standard Specifications for Road and Bridge Construction; adopted January 1, 2012.
 - C. Material shall be new. Seconds or damaged materials will be rejected by Owner, who reserves the right to disapprove and reject any materials, proposed or installed which, in their opinion, fail to meet quality standards specified. Contractor shall, at his
- 2. PRODUCTS
 - 2.01. RACEWAYS
 - A. Conduit Materials, Components:
 - 1. Conduit & Fittings:
 - a. (RMC) Rigid Metal Conduit; as per the Illinois Standard Specifications for Road and Bridge Construction; adopted January 1, 2012; section 811.
 - b. (PVC) Rigid Polyvinyl Chloride Conduit, Schedule 40 exterior underground only. Minimum depth 30" under roadway or vehicular traffic. as per the Illinois Standard Specifications for Road and Bridge Construction; adopted January 1, 2012; section 810.
 - 2.02. WIRES AND CABLES
 - A. All wire to be copper XLP/USE; as per the Illinois Standard Specifications for Road and Bridge Construction; adopted January 1, 2012; section 817.
- 2.03. WIRING SYSTEM IDENTIFICATION
 - A. Wire Insulation Color:
 - 120/240 v., 1 phase, 3 wire
 - 1. Phase A Black
 - 2. Phase B Red
 - 3. Neutral White
 - 4. Ground Green
- 2.04. BOXES
 - A. All boxes to be stainless steel; as per the Illinois Standard Specifications for Road and Bridge Construction; adopted January 1, 2012; section 813.
- 2.05. SUPPORTING DEVICES
 - A. Conduit Supports:
 - 1. Single Runs: Galvanized conduit straps or ring bolt type hangers with specialty spring clips.
 - 2. Vertical Runs: Channel support with conduit fittings.
 - B. Anchors
 - 1. Hollow Masonry: Toggle bolts or spider type expansion anchors.
 - 2. Solid Masonry: Lead expansion anchors or preset inserts
 - 3. Metal Surfaces: Machine screws, bolts, or welded studs.
 - 4. Wood Surfaces: Wood screws.
 - 5. Concrete Surfaces: Self-drilling anchors or power-driven studs.
- 2.06. FIRE AND SMOKE PENETRATION SEALANT
 - A. NEC 300-21; UL rated flexible sealant.
- 2.07. CORROSION PREVENTION
 - A. Protect all metallic materials against corrosion.
 - 1. All equipment enclosures given rust-inhibiting treatment and standard finish by manufacturer.
 - 2. Ferrous Metal Parts: Hot dip galvanized, ASTM A123 or ASTM A153.
 - a. Includes anchors, bolts, braces, boxes, bodies, clamps, fittings, guards, nuts, pins, rods, shims, thimbles, washers, and miscellaneous parts; other than stainless steel or non-ferrous materials.
 - B. Isolation of Dissimilar Metals: Separate dissimilar metals with NEC approved material.
- 2.08. PANELBOARD
 - A. Square D NOOD Style, Copper buss, Nema-1, surface mounted, hinged cover. (or equal GE, Siemens, Cutler-Hammer)
 - B. BREAKERS
 - 1. Square D QOB type. (or equal GE, Siemens, Cutler-Hammer)
- 2.09. LUMINAIRES
 - A. Manufacturer: See lighting fixture schedule on plans.
- 3. EXECUTION
 - 3.01. INSTALLATION
 - A. Drawings are diagrammatic and are intended to convey scope of work and indicate general arrangement of conduit, boxes, equipment, fixtures and other work included in contract.
 - 3.02. RACEWAYS
 - A. Installation of Conduit:
 - 1. Install conduit and tubing products indicated, in accordance with manufacturer's written instructions and requirements of NEC and NECA, Standard of Installation.
 - 2. Attach conduit with clamps that meet the application.
 - 3. Coordinate installation of conduit with prime contractor.
 - 4. Install conduit free from dents and bruises.
 - 5. Plug conduit ends to prevent entry of dirt or moisture.
 - 6. Clean out conduit before installation of conductor(s).
 - 7. Alter conduit routing to avoid structural obstructions, minimize cross-overs; and where possible, install raceways above water and steam piping.
 - 8. Allow minimum 6 inch clearance at flues, steam pipes, and heat sources.
 - 9. Route all exposed conduits parallel or perpendicular to building lines.
 - 10. Fire rated walls, partitions, floors, ceiling penetrations: Sealed in accordance with NEC 300-21.
 - a. Flexible conduit sufficient length to avoid vibration transmission.
 - 3.03. IDENTIFICATION
 - A. Identify all control components installed with labels.
 - 3.04. WIRE AND CABLES
 - A. Installation:
 - 1. Conductor size indicated on drawings indicates ampacity requirements using copper conductors.
 - 2. Identify circuit numbers using appropriate wire labels.
 - 3.05. BOXES
 - A. Installation:
 - 1. Provide knockout closures to cap unused knockout holes where blanks have been removed.
 - 2. Support all boxes independently of conduit.
 - 3. Outlet Boxes:
 - a. Flush mount outlet boxes in areas other than mechanical rooms, electrical rooms, and above removable ceilings.
 - 4. Pull Boxes and Junction Boxes: Locate pull boxes and junction boxes above removable ceilings or in electrical rooms, utility
 - 3.06. PRESENT EQUIPMENT AND CONSTRUCTION
 - A. Examination
 - 1. Before submitting his bid, Contractor shall visit the present site, building, areas being remodeled and adjacent areas not being remodeled.
 - 2. Contractor shall contact the Owner to carefully verify all present external and internal exposed, concealed, buried points of connections as to location, size, type, depth.
 - 3. Verify that abandoned wiring, equipment, piping, boxes, etc. serve only abandoned facilities and remove.
 - 4. If contractor finds that any present point of points of connection to present facilities/equipment are incorrectly shown on plans or incorrectly specified, he shall notify the Owner, in writing, at least 10 (ten) working days before bids are due to be submitted.
 - 5. Owner will issue an addendum to all contractors, calling their attention to revised point or points of connection, as required.
 - 6. If electrical contractors fail to notify the Owner, in writing, as outlined above, it will be expected that their bid includes everything required to provide proper connections to all present points of connection as they actually exist or as they will be provided.

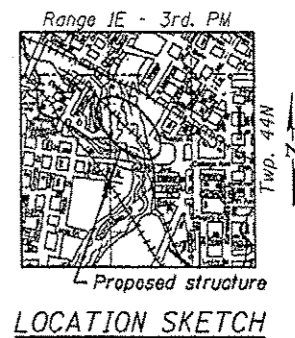
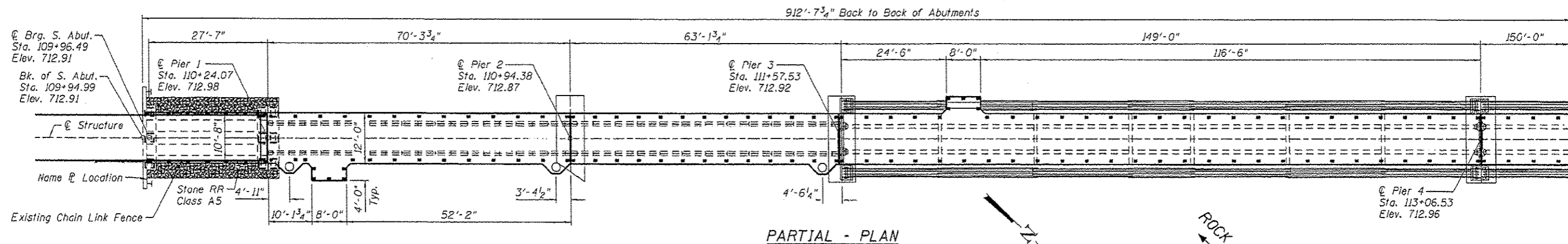
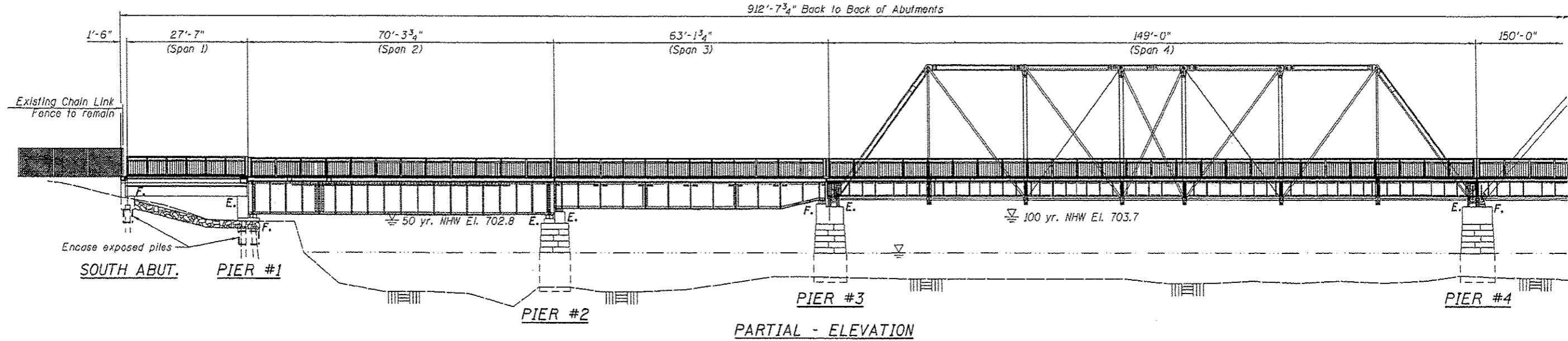
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DESIGNED - JRR	REVISED -	CITY OF ROCKFORD RAILS TO TRAILS OVER ROCK RIVER 2015	LIGHTING PLAN MULTI-USE PATH		P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	REVISED -					14-00608-00-BT	WINNEBAGO	38	18
DRAWN -	REVISED -					WHA# 1016R13	CONTRACT NO. 85620		
CHECKED -	REVISED -					[ILLINOIS] FED. AID PROJECT 7E-00021158			

EXISTING STRUCTURE:

The existing structure consists of 8 spans, a precast T-beam span at 27'-7".
 (2) @ girders at 70'-3³/₄" and 63'-1³/₄", 1 truss at 149', 3 trusses at 150',
 and 1 truss at 148'. Structure to be converted to a shared-use path.

BENCH MARK #403: Chis. "□" in southeast corner of headwall,
 east side of railroad structure.
 Elev. 712.32



INDEX OF STRUCTURAL SHEETS

- 1-3.) General Plan and Elevation
- 4-9.) Superstructure
- 10-12.) Superstructure Details
- 13.) Bicycle Railing
- 14.) Preformed Joint Strip Seal Details
- 15.) South Abutment Details
- 16.) North Abutment Details
- 17.) MSE Wall Details
- 18-20.) Pier Repair Details

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Horizontal Bedrock Acceleration Coefficient (A) = 0.033g
 Site Coefficient (S) = 1.0

DESIGN SPECIFICATIONS
 2002 AASHTO Bridge Design Specifications, 17th Edition

LOADING HS20-44 & PEDESTRIAN LOADING = 90 psf

DESIGN STRESSES
 FIELD UNITS
 f'c = 3,500 psi (New Construction)
 fy = 60,000 psi (Reinforcement in Deck)
 fy = 33,000 psi (Existing Steel)



Brian K. Conner
 DATE: 3/2/2015
 EXPIRES 11/30/16

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans, the design is an economical one for the style of structure and complies with requirements of the current AASHTO Bridge Design Specifications."

GENERAL PLAN AND ELEVATION
RAILS TO TRAILS OVER ROCK RIVER (PUBLIC WATERS)
SECTION 14-00608-00-BT
CITY OF ROCKFORD
STATION 114+50.50
STRUCTURE NO. 101-6352

FILE: S:\PROJECTS\2015\1016R13.P01.TEP.DESIGN\STRUCT_20.D - 1016R13.DWG

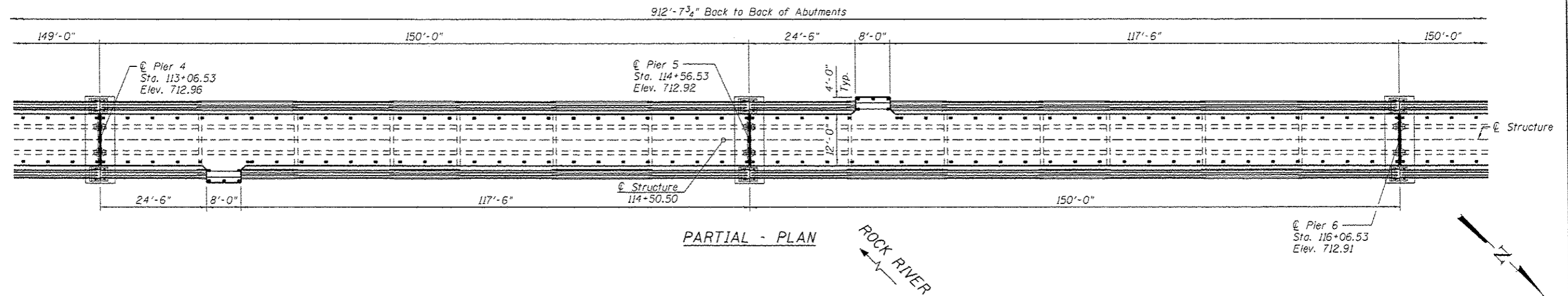
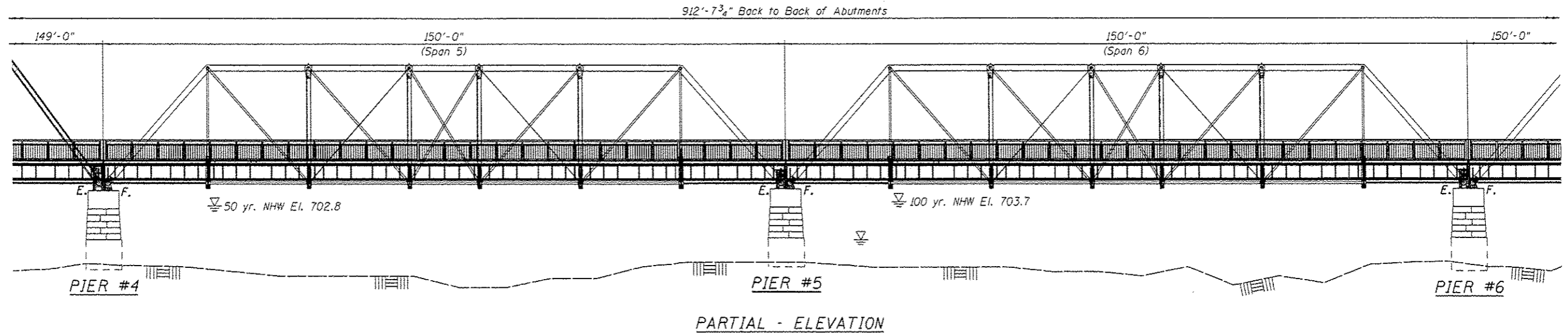


DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - ROA	REVISED -
CHECKED - BSK	REVISED -

CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

STRUCTURAL SHEET NO. 1 OF 20 SHEETS

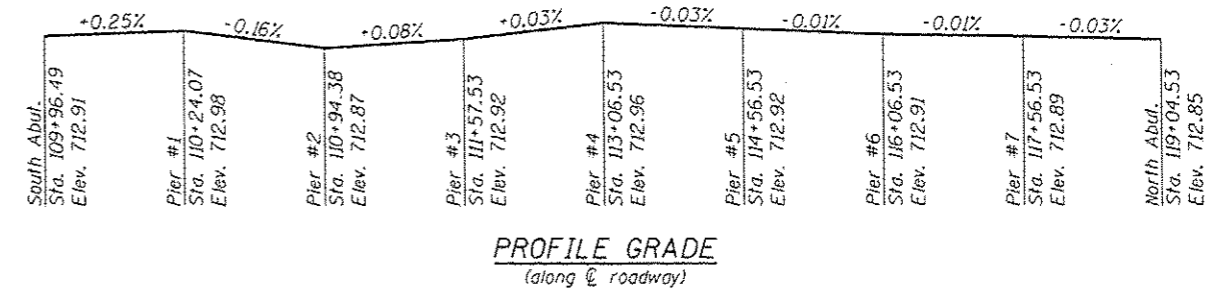
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	19
	WHA* 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-00021586				



WATERWAY INFORMATION

Drainage Area = 6,530 Sq. Mi. Low Grade Elev. 705.42' @ Sta. 122+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater Elev.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	33,167	9,320	9,320	700.3	0.7	0.7	701	701	
Base	50	46,441	11,390	11,390	702.8	0	0	702.8	702.8	
Overtopping	100	52,063	12,152	12,152	703.7	0.3	0.3	704	704	
Max. Calc.	500	66,397	14,685	14,685	707.0	1.0	1.0	708	708	



DESIGN SCOUR ELEVATION TABLE

Event/Limit	Design Scour Elevations (ft.)										Item
	S. Abut.	Pier #1	Pier #2	Pier #3	Pier #4	Pier #5	Pier #6	Pier #7	N. Abut.	113	
Q100	N/A	N/A	687.5	689.83	689.85	690.54	689.56	690.54	695.54	5	
Design	702.19	697.26	686.5	688.83	688.85	689.54	688.56	689.54	694.54		

GENERAL PLAN AND ELEVATION
 RAILS TO TRAILS OVER ROCK RIVER (PUBLIC WATERS)
 SECTION 14-00608-00-BT
 CITY OF ROCKFORD
 STATION 114+50.50
 STRUCTURE NO. 101-6352

FILE: S:\PROJECTS\2013\14-00608-00-BT\DESIGN\STRUCT\20-D-01.dwg, 11/18/13, 09:45:49

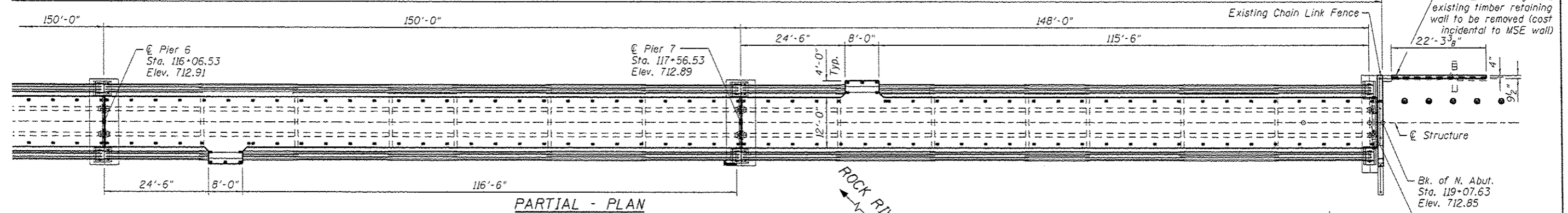
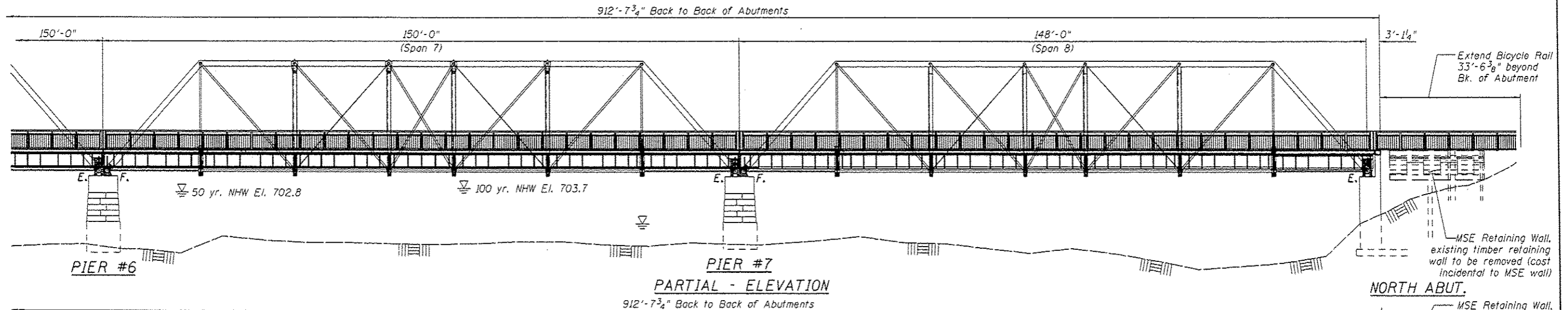


DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - ROA	REVISED -
CHECKED - BSK	REVISED -

CITY OF ROCKFORD
 RAILS TO TRAILS OVER ROCK RIVER
 2015

STRUCTURAL SHEET NO. 2 OF 20 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	20
	WMA# 1016R13	WINNEBAGO		CONTRACT NO. 85620
[ILLINOIS] FED. AID PROJECT TE-000211501				



BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB.	SUPER.	TOTAL
Stone Riprap, Class A5	Ton	52	—	52
Aggregate Base Course, Type B	Ton	—	7	7
Hot-Mix Asphalt Surface Course, IL-9.5FG, N50	Ton	—	4	4
Concrete Removal	Cu. Yd.	0.4	—	0.4
Concrete Superstructure	Cu. Yd.	1.2	234.8	236.0
Concrete Encasement	Cu. Yd.	5.5	—	5.5
Protective Coat	Sq. Yd.	—	1,210	1,210
Furnishing & Erecting Structural Steel	Pound	41	34,861	34,902
Stud Shear Connectors	Each	28	1,774	1,802
Reinforcement Bars, Epoxy Coated	Pound	740	71,970	72,710
Bicycle Railing	Foot	—	1,893	1,893
Name Plates	Each	—	1	1
Preformed Joint Strip Seal	Foot	—	96	96
Containment and Disposal of Non-Lead Paint Cleaning Residue	L. Sum	—	1	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	—	1	1
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	140	—	140
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	124	—	124
Grout Removal and Replacement	Each	8	—	8
Masonry Cleaning and Tuckpointing	Sq. Yd.	37	—	37
Removal of Existing Timber Members	L. Sum	—	1	1
Chain Link Fence Removal	Foot	—	96	96
Chain Link Gates Removal	Each	—	2	2
Chain Link Fence, 7' (Special)	Foot	—	8	8
Galvanized Decking 1/2"	Sq. Yd.	—	989	989

GENERAL NOTES:

* See Special Provisions.
 All structural steel shall be AASHTO M270 Grade 36.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the Concrete Superstructure pay item.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 All hardware, as noted, shall be hot dipped galvanized in accordance with AASHTO M-232 and included in the cost of Furnishing & Erecting Structural Steel.
 Cleaning and painting of the existing structural steel shall be as specified in the Guide Bridge Special Provision for Cleaning and Painting Existing Steel Structures. All steel members for a distance of three (3') feet either side of centerline of bearing locations shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting sandblasted regions of steel at pier and abutment bearing locations. The color of the final finish coat shall be Reddish Brown, Munsell No. 2.5YR 3/4. The top plate of the expansion bearing enclosure shall be removed and reinstalled for this work, the cost shall be included in Cleaning & Painting Steel Bridge No. 1.
 The Contractor shall notify Willett, Hofmann & Associates a minimum of one (1) day prior to reaching bare metal condition and provide them access to inspect steel elements prior to completion of any painting. If any members are found to require repair the required work shall be completed in accordance with Article 109.04 of the Standard Specifications.
 The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources and the Army Corps of Engineers for any temporary construction activity placed in the water. This shall include placement of material for run-grounds, causeways, etc.
 Existing reinforcement shall be cleaned and incorporated into the new construction. Cost Included with Concrete Removal.

RAILS TO TRAILS OVER ROCK RIVER
 BUILT 2015 BY
 CITY OF ROCKFORD
 SECTION 14-00608-00-BT
 STATION 114+50.50
 STR. NO. 101-6352 LOADING HS20

NAME PLATE LETTERING
 Refer to Std. 515001-03

GENERAL PLAN AND ELEVATION
RAILS TO TRAILS OVER ROCK RIVER (PUBLIC WATERS)
SECTION 14-00608-00-BT
CITY OF ROCKFORD
STATION 114+50.50
STRUCTURE NO. 101-6352

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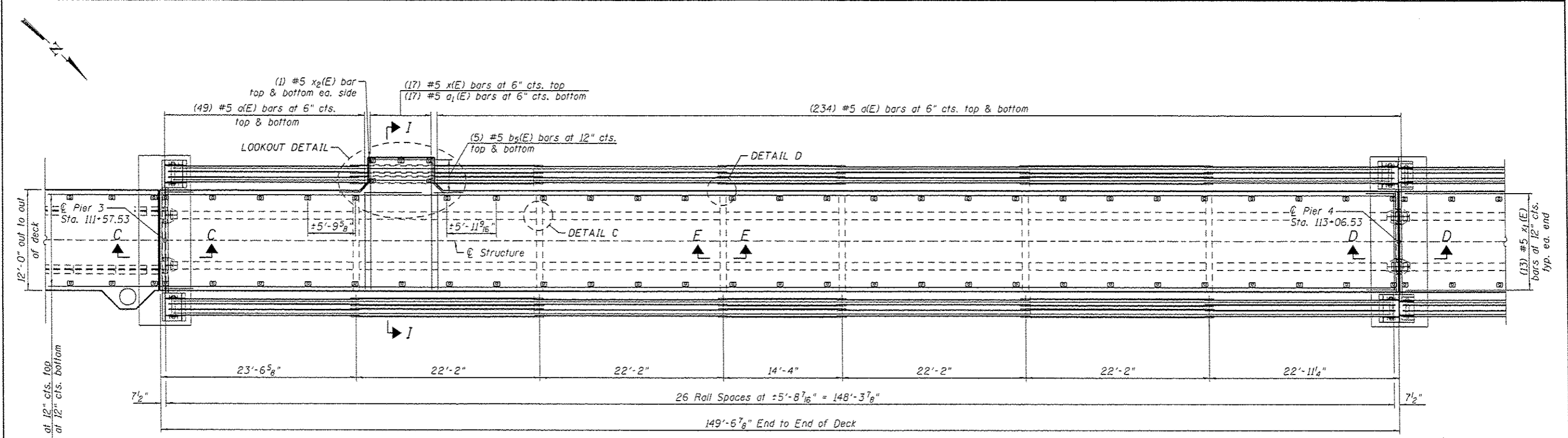


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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

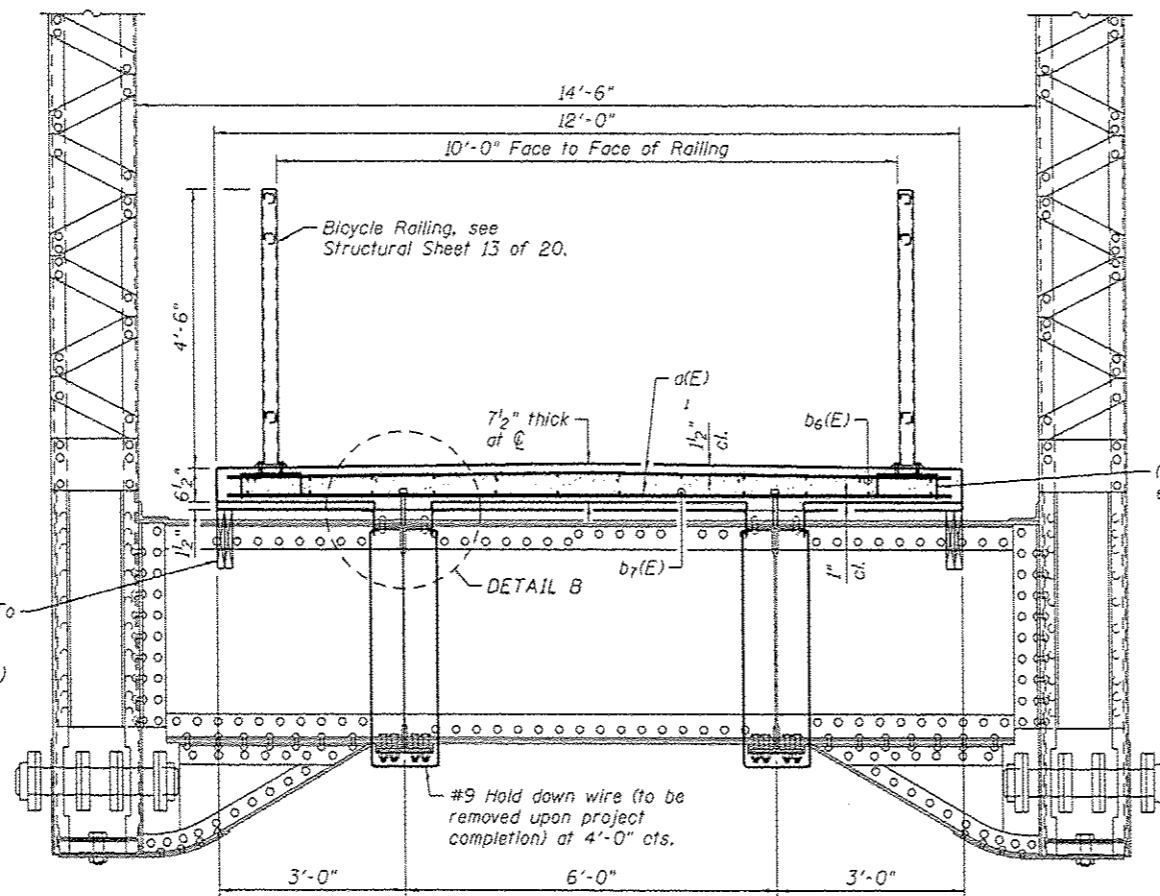
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

STRUCTURAL SHEET NO. 3 OF 20 SHEETS

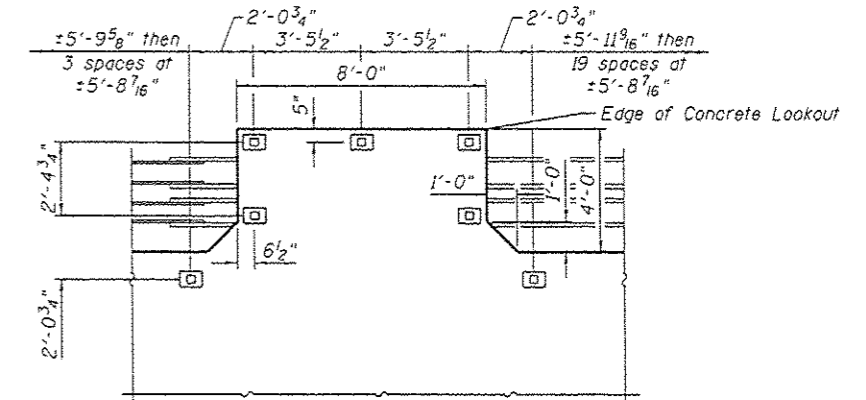
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	14-00608-00-BT	WINNEBAGO	38	21
	RHA* 1016R13			CONTRACT NO. 85620
				(ILLINOIS) FED. AID PROJECT TE-0002058



PARTIAL PLAN - SPAN 4



CROSS SECTION
(Through Truss, Typ. Spans 4 thru 8)



LOOKOUT DETAIL
Reinforcement not shown for clarity

MINIMUM BAR LAP
#5 bar = 2'-7"

NOTES:
See Structural Sheet 10 of 20 for Superstructure Details and Bill of Material.
See Structural Sheet 11 & 12 of 20 for Sections.

FILE: S:\PROJECTS\2015\14-00608\STRUCT\11EP-DESIGN\STRUCT\120-Dr-Decking\140616R13_Super-4-structure.dgn

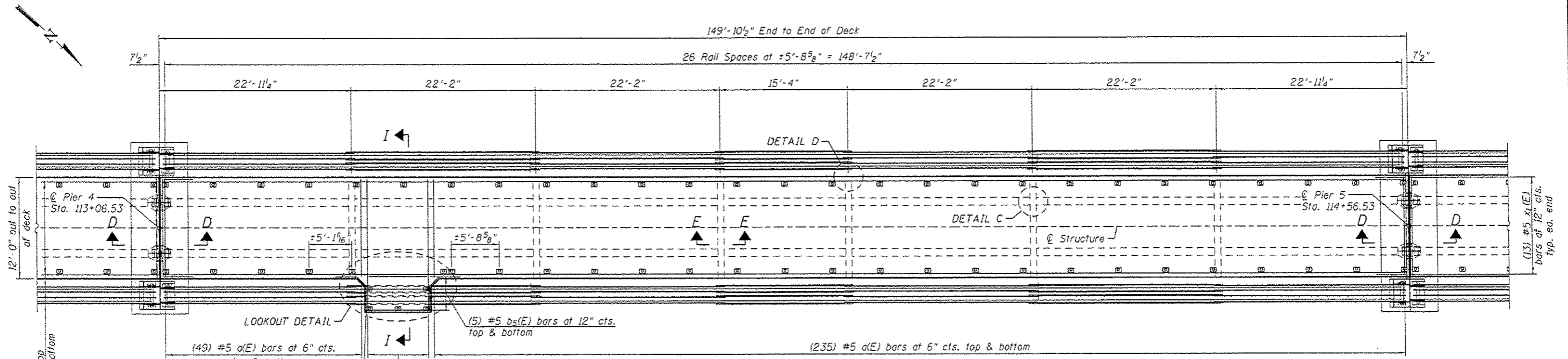
WILLET HOFMANN ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-STRUCTURAL DESIGNERS
250 EAST 12TH STREET, SUITE 200, ROCKFORD, IL 61102-4307
TEL: 815.398.3347 FAX: 815.398.3348

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

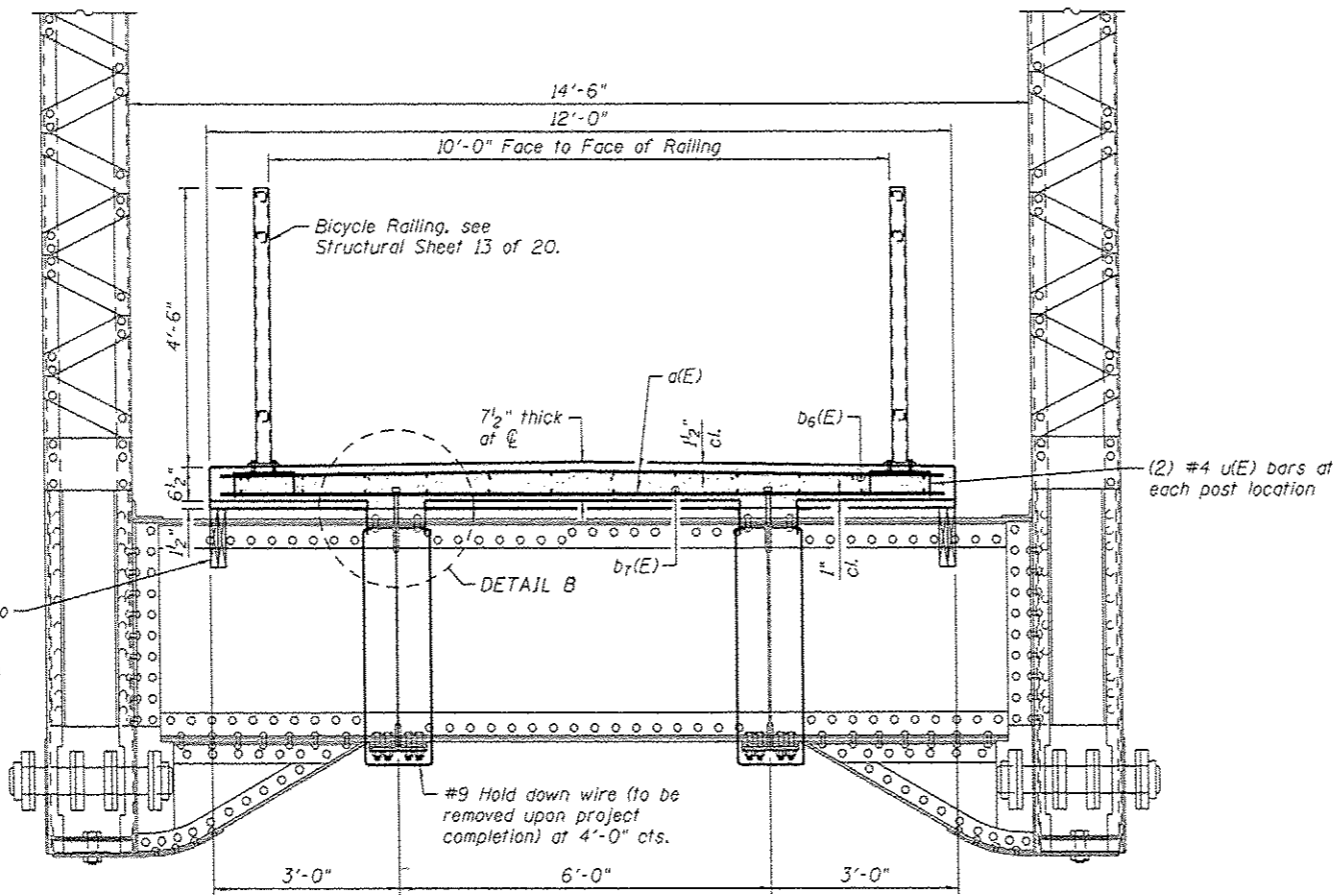
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

SUPERSTRUCTURE
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 5 OF 20 SHEETS

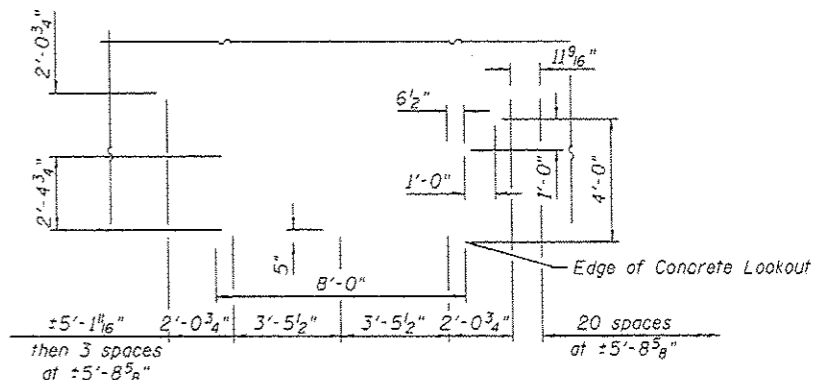
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	14-00608-00-BT	WINNEBAGO	38	23
	WHA* 1016R13			CONTRACT NO. 85620
				ILLINOIS FED. AID PROJECT TE-00001581



PARTIAL PLAN - SPAN 5



CROSS SECTION
(Through Truss, Typ. Spans 4 thru 8)



LOOKOUT DETAIL
Reinforcement not shown for clarity

MINIMUM BAR LAP
#5 bar = 2'-7"

NOTES:
See Structural Sheet 10 of 20 for Superstructure Details and Bill of Material.
See Structural Sheet 11 & 12 of 20 for Sections.

FILE: S:\PROJECTS\240\BIBR12.RD.11EP\DESIGN\STRUCT\100.Dr-wsmp\11R113_Superstr-structure.dgn

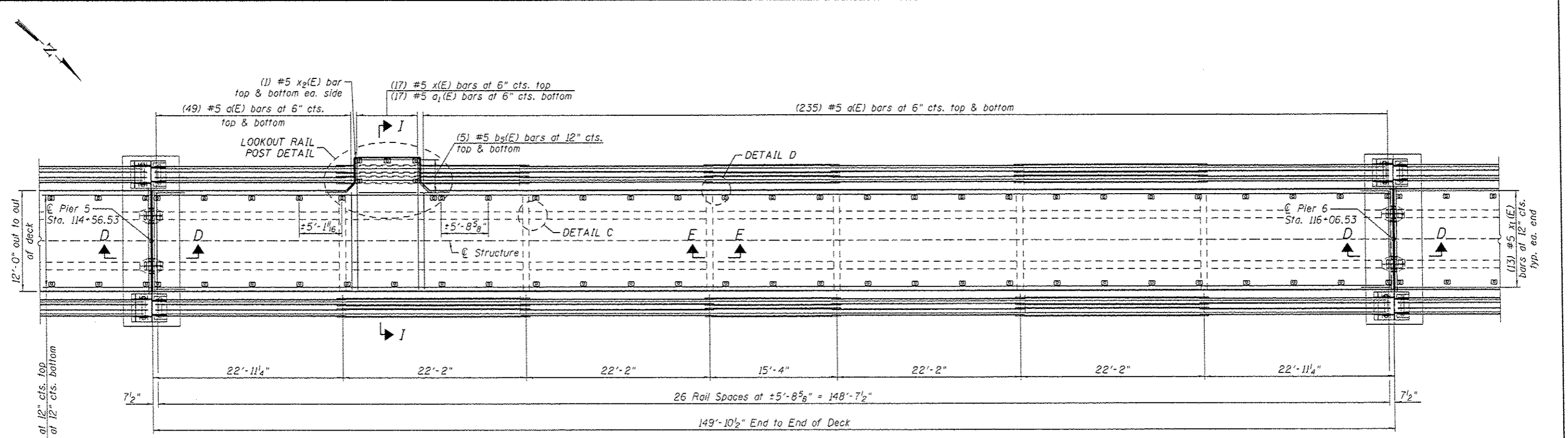
WILLET HOFMANN
ASSOCIATES, INC.
STRUCTURAL ENGINEERS
245 EAST 2ND STREET, SUITE 200, ROCKFORD, IL 61101-9167
TEL: 815/398-0881 FAX: 815/398-0882

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

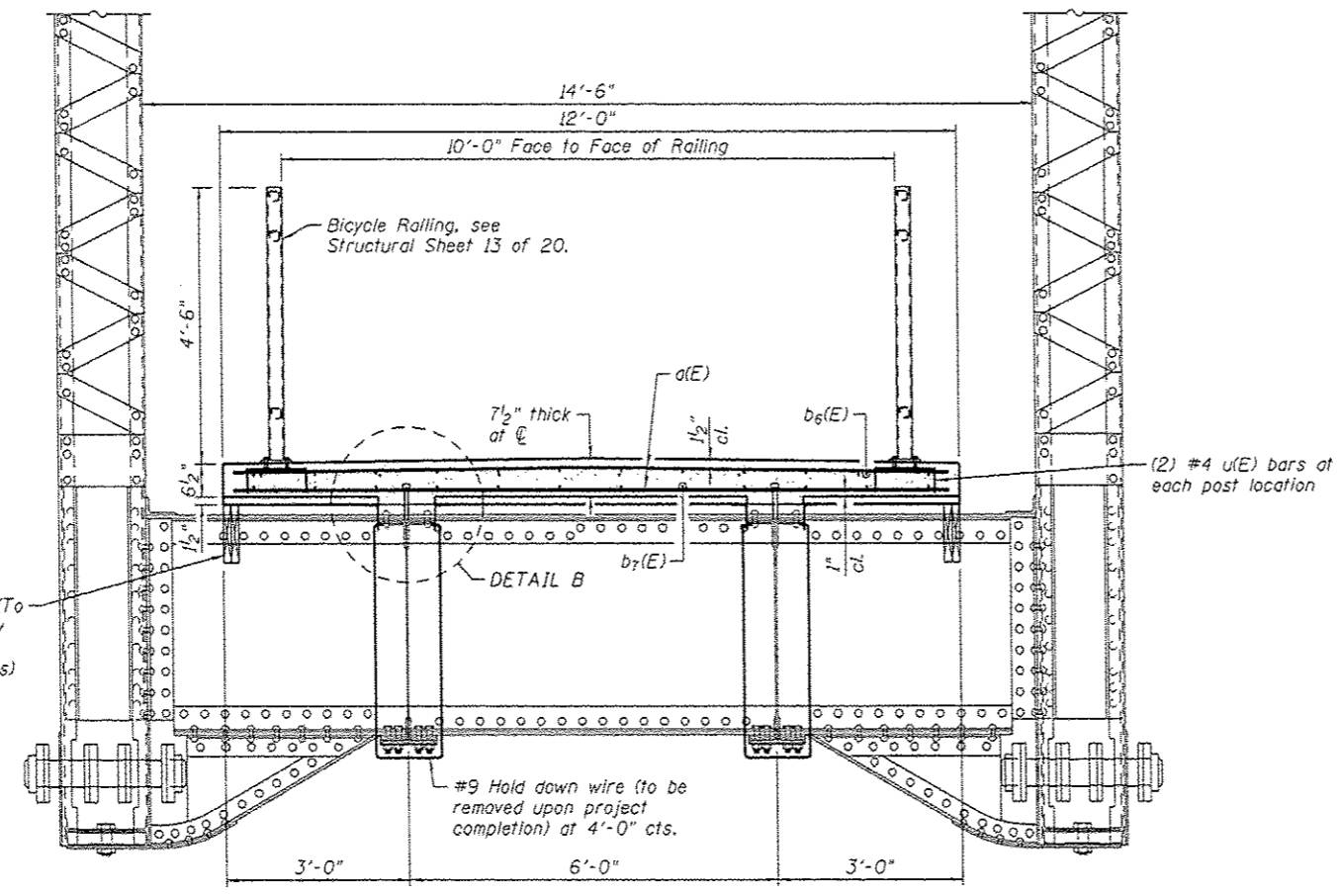
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

SUPERSTRUCTURE
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 6 OF 20 SHEETS

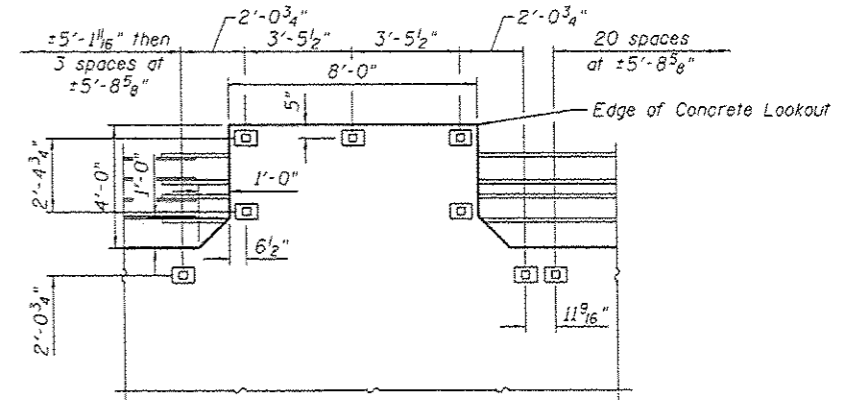
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	14-00608-00-BT	WINNEBAGO	38	24
	WHA# 1016R13	CONTRACT NO.	85620	
ILLINOIS FED. AID PROJECT TE-00021589				



PARTIAL PLAN - SPAN 6



CROSS SECTION
(Through Truss, Typ. Spans 4 thru 8)



LOOKOUT DETAIL
Reinforcement not shown for clarity

MINIMUM BAR LAP
#5 bar = 2'-7"

NOTES:
See Structural Sheet 10 of 20 for Superstructure Details and Bill of Material.
See Structural Sheet 11 & 12 of 20 for Sections.

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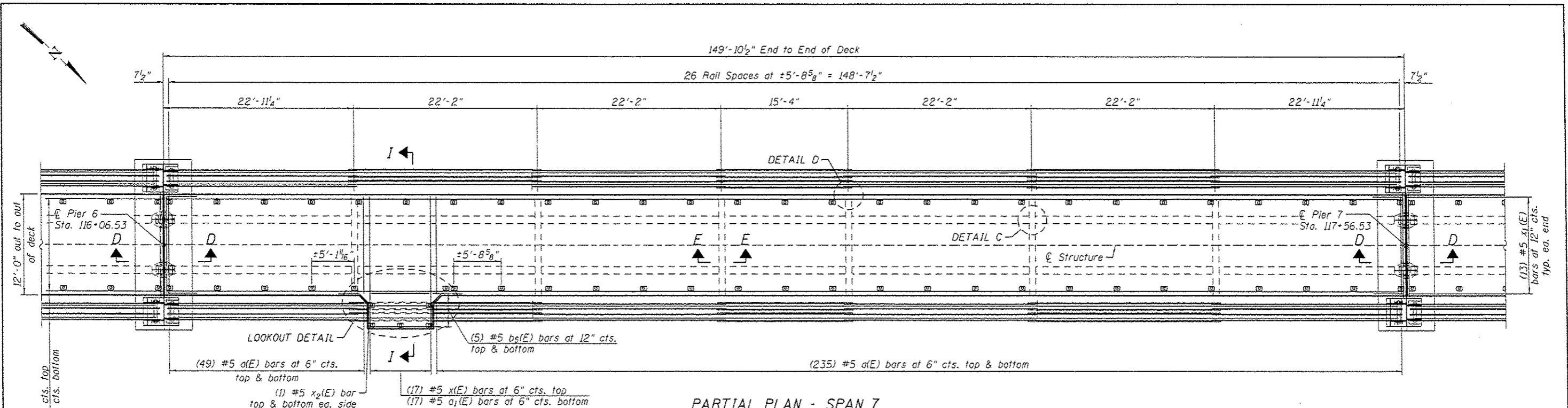
WILLET HOFMANN
ASSOCIATES, INC.
100 EAST 2ND STREET, SUITE 111, ROCKFORD, IL 61102-0111
TEL: 815-398-1311 FAX: 815-398-1315

DESIGNED - BKC	REVISED -
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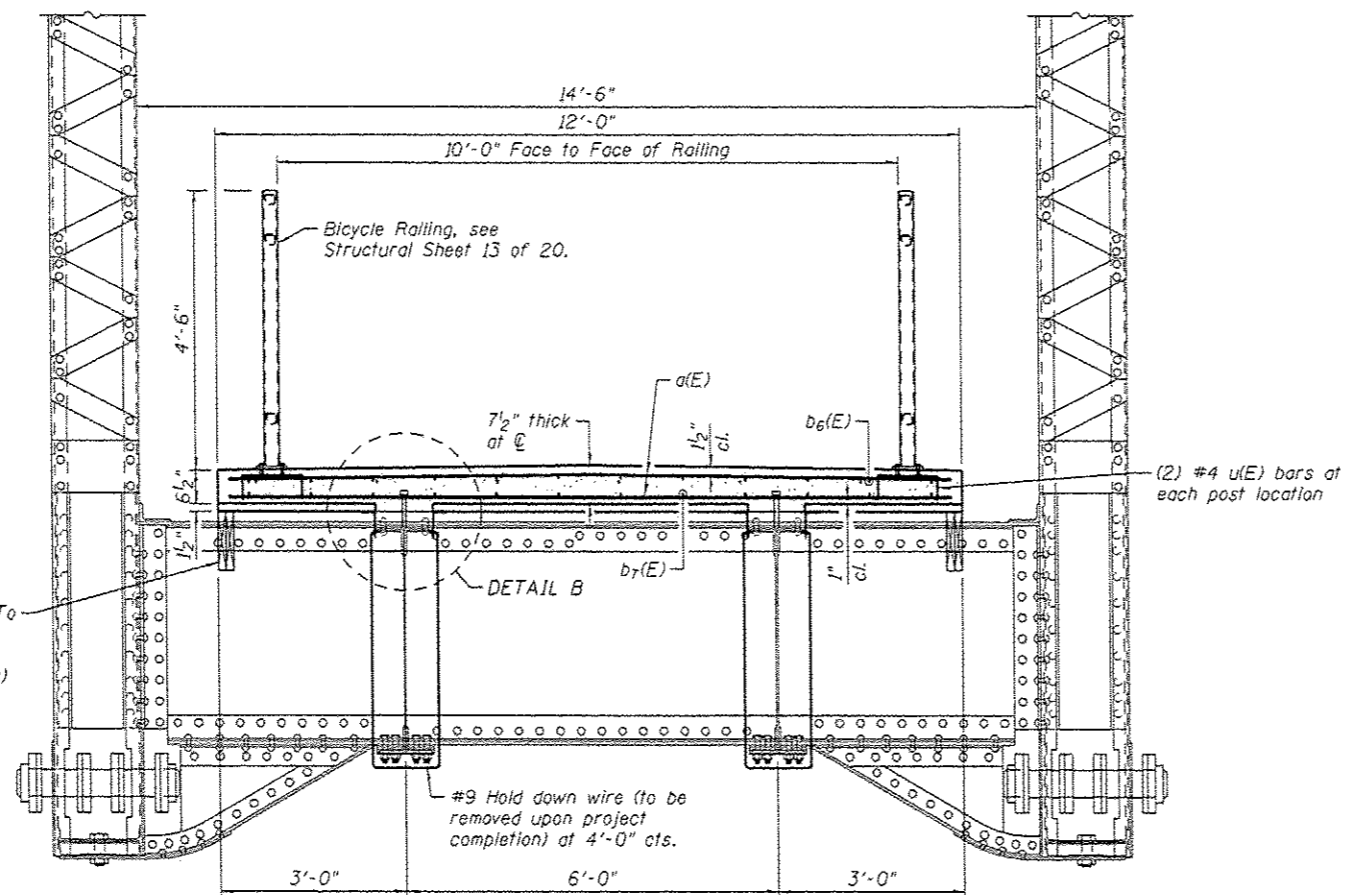
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

SUPERSTRUCTURE
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 7 OF 20 SHEETS

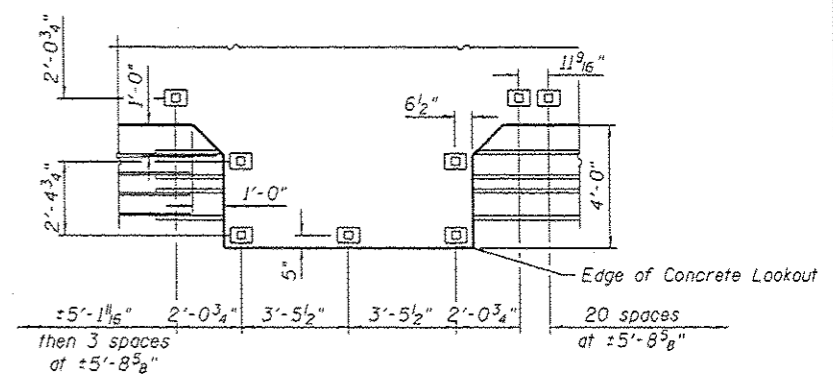
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	14-00608-00-BT	WINNEBAGO	38	25
	WHA* 1016R13			CONTRACT NO. 85620
ILLINOIS FED. AID PROJECT 1E-00021581				



PARTIAL PLAN - SPAN 7



CROSS SECTION
(Through Truss, Typ. Spans 4 thru 8)



LOOKOUT DETAIL
Reinforcement not shown for clarity

MINIMUM BAR LAP
#5 bar = 2'-7"

NOTES:
See Structural Sheet 10 of 20 for Superstructure Details and Bill of Material.
See Structural Sheet 11 & 12 of 20 for Sections.

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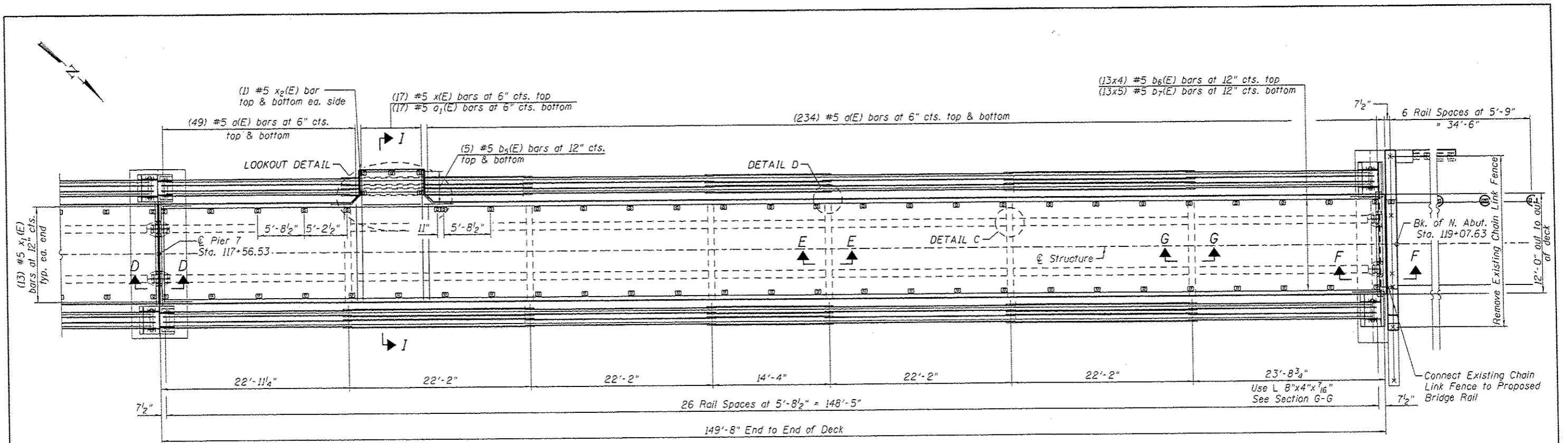


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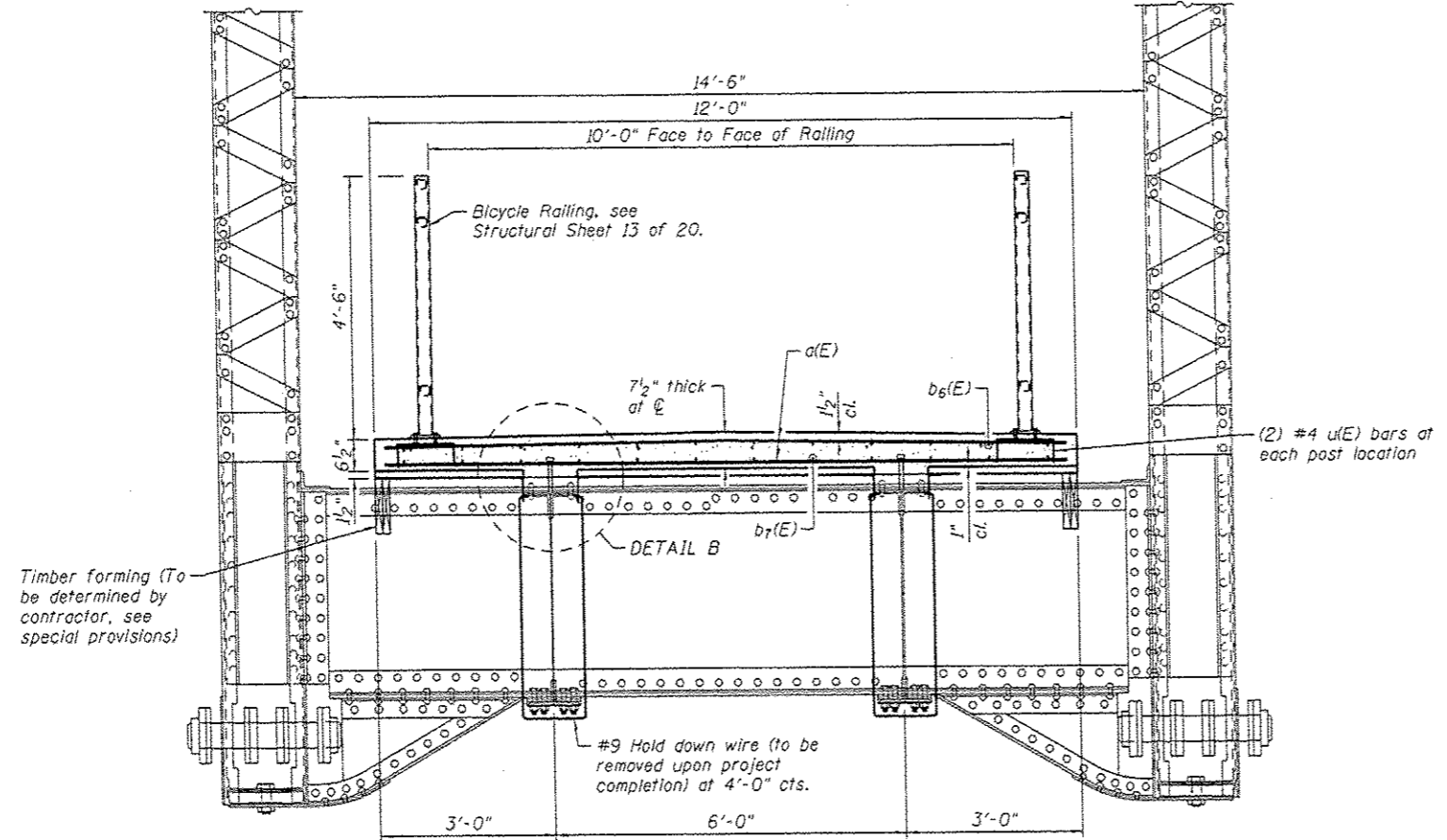
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

SUPERSTRUCTURE
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 8 OF 20 SHEETS

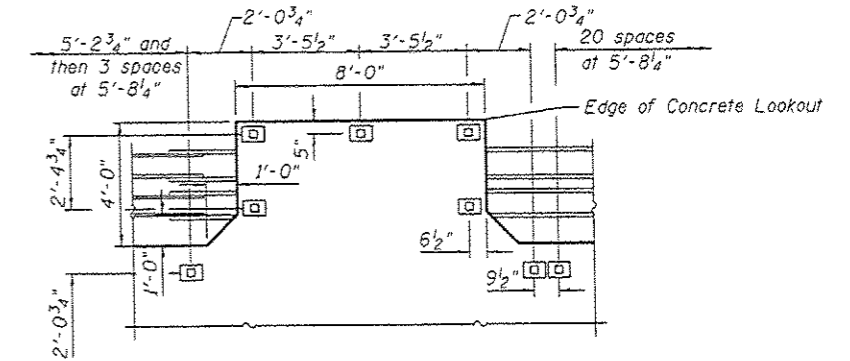
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	14-00608-00-BT	WINNEBAGO	38	26
	WHA* 1016R13			CONTRACT NO. 85620
ILLINOIS FED. AID PROJECT TE-00020581				



PARTIAL PLAN - SPAN 8



CROSS SECTION
(Through Truss, Typ. Spans 4 thru 8)



LOOKOUT DETAIL
Reinforcement not shown for clarity

MINIMUM BAR LAP
#5 bar = 2'-7"

NOTES:
See Structural Sheet 10 of 20 for Superstructure Details and Bill of Material.
See Structural Sheet 11 & 12 of 20 for Sections.

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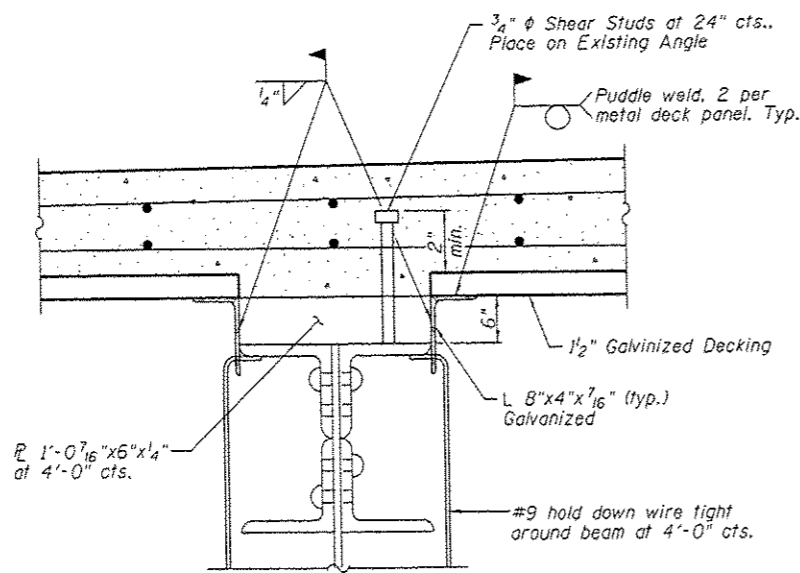


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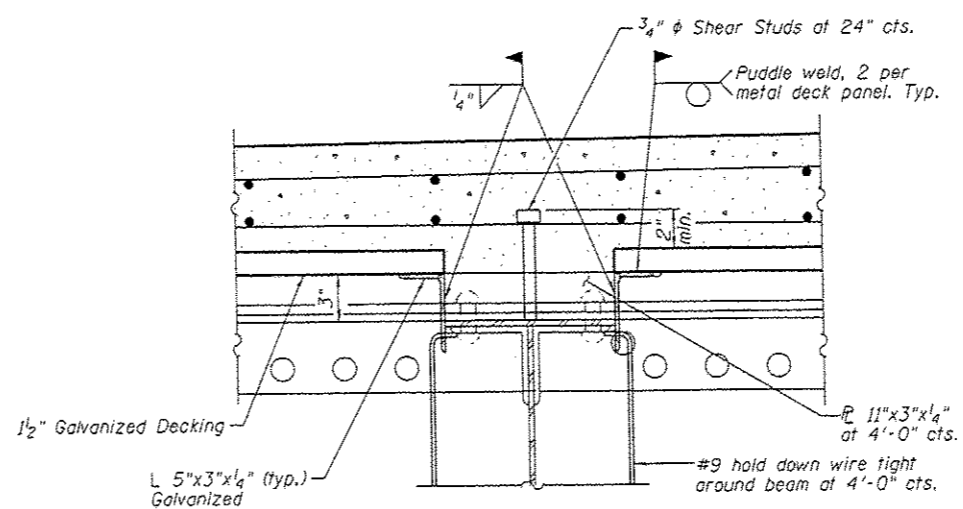
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

SUPERSTRUCTURE
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 9 OF 20 SHEETS

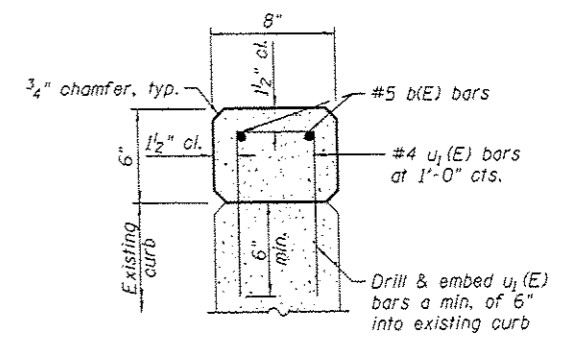
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	14-00608-00-BT	WINNEBAGO	38	27
	WHA# 1016R13		CONTRACT NO. 85620	
			ILLINOIS FED. AID PROJECT YE-0002115B	



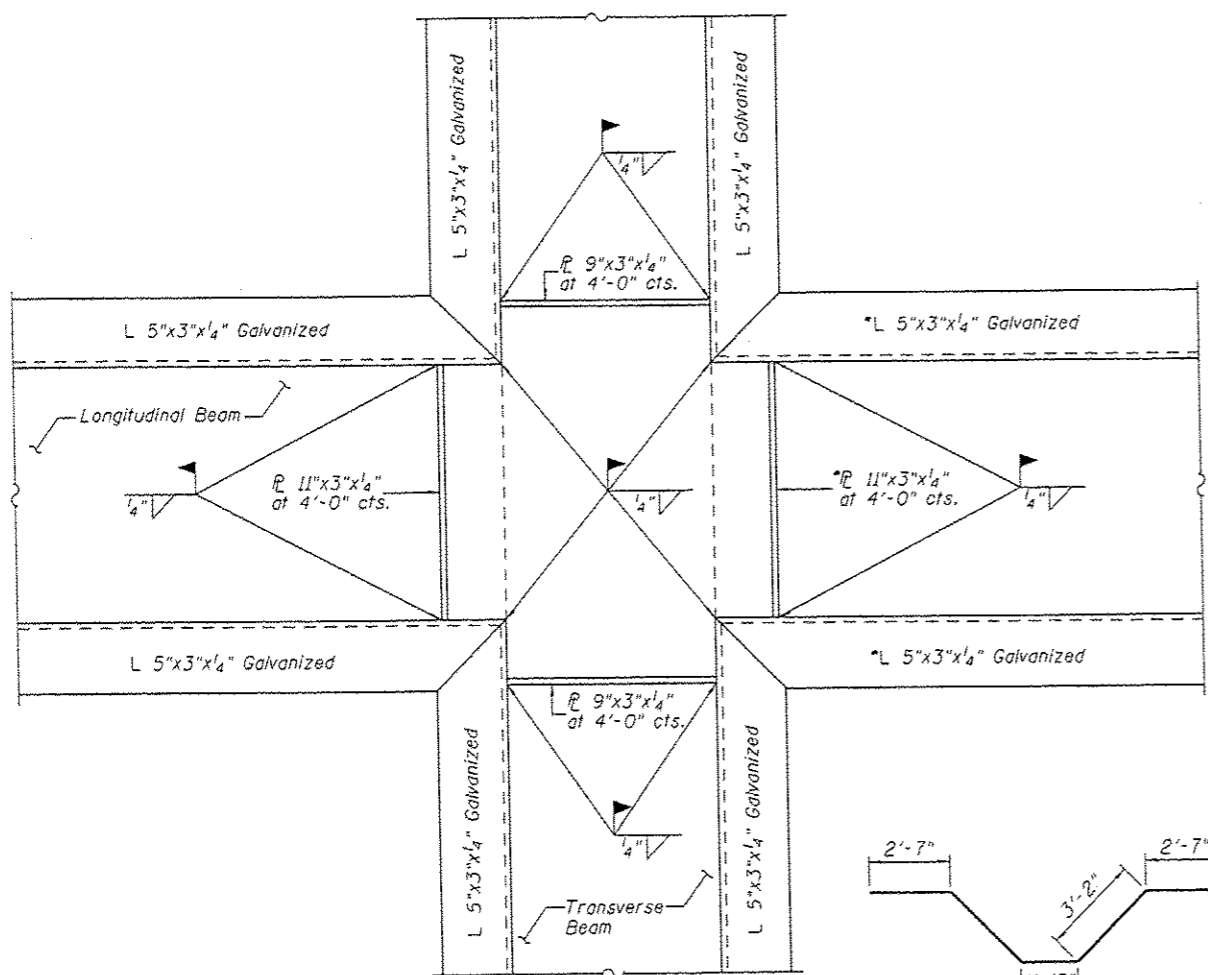
DETAIL A



DETAIL B

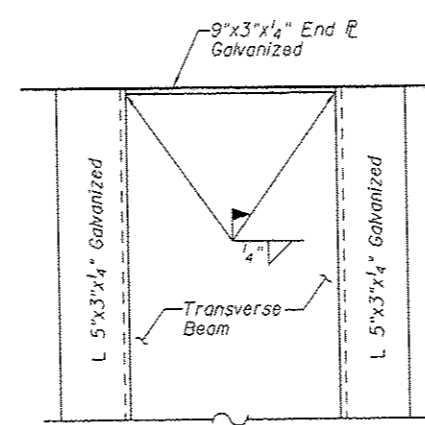


DETAIL E

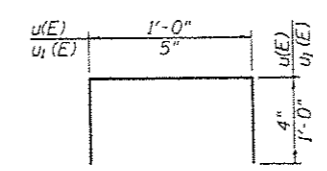


DETAIL C

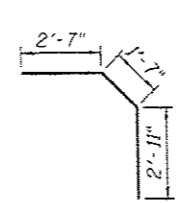
*At North beams of Span 8 the L shall be L 8" x 4" x 7/16" and the plates shall be L 11" x 6" x 1/4" except for the 1st after the Transverse Beam which will be as noted.



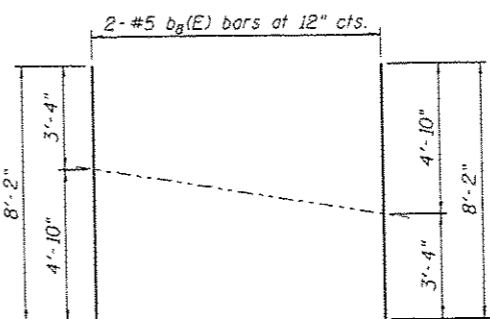
DETAIL D



BAR u(E) & u1(E)

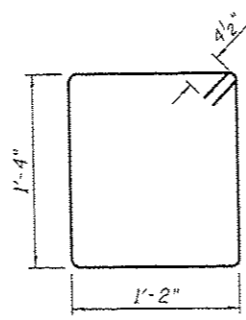


BAR x2(E)

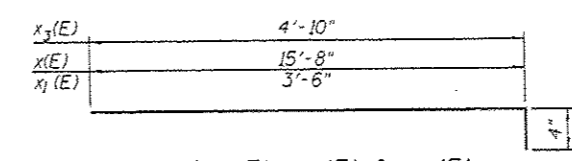


FIELD CUTTING DIAGRAM

Order b8(E) bars full length. Cut as shown and use the remainder of bars in second line of the light pole bumpout.



BAR s(E)



BAR x(E), x1(E) & x3(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	3,334	#5	11'-8"	—
a1(E)	102	#5	15'-8"	—
a2(E)	6	#5	10'-2"	—
b(E)	4	#5	27'-10"	—
b1(E)	26	#5	36'-4"	—
b2(E)	39	#5	25'-1"	—
b3(E)	26	#5	32'-4"	—
b4(E)	39	#5	22'-5"	—
b5(E)	60	#5	7'-8"	—
b6(E)	260	#5	39'-4"	—
b7(E)	325	#5	32'-0"	—
b8(E)	6	#5	8'-2"	—
s(E)	11	#4	5'-9"	□
u(E)	708	#4	1'-8"	┌
u1(E)	58	#4	2'-5"	┌
x(E)	102	#5	16'-0"	—
x1(E)	182	#5	3'-10"	—
x2(E)	24	#5	7'-1"	┌
x3(E)	18	#5	5'-2"	—
x4(E)	6	#5	13'-4"	—
Aggregate Base Course, Type B				Ton 7
Hot-Mix Asphalt Surface Course, 1L-9.5FG, N50				Ton 4
Concrete Superstructure				Cu. Yd. 234.8
Protective Coat				Sq. Yd. 1,210
Furnishing and Erecting Structural Steel				Pound 34,861
Stud Shear Connectors				Each 1,774
Reinforcement Bars, Epoxy Coated				Pound 71,970
Removal of Existing Timber Members				L. Sum 1
Chain Link Fence Removal				Foot 96
Chain Link Gates Removal				Each 2
Chain Link Fence, 7' (Special)				Foot 8
Galvanized Decking 1 1/2"				Sq. Yd. 989

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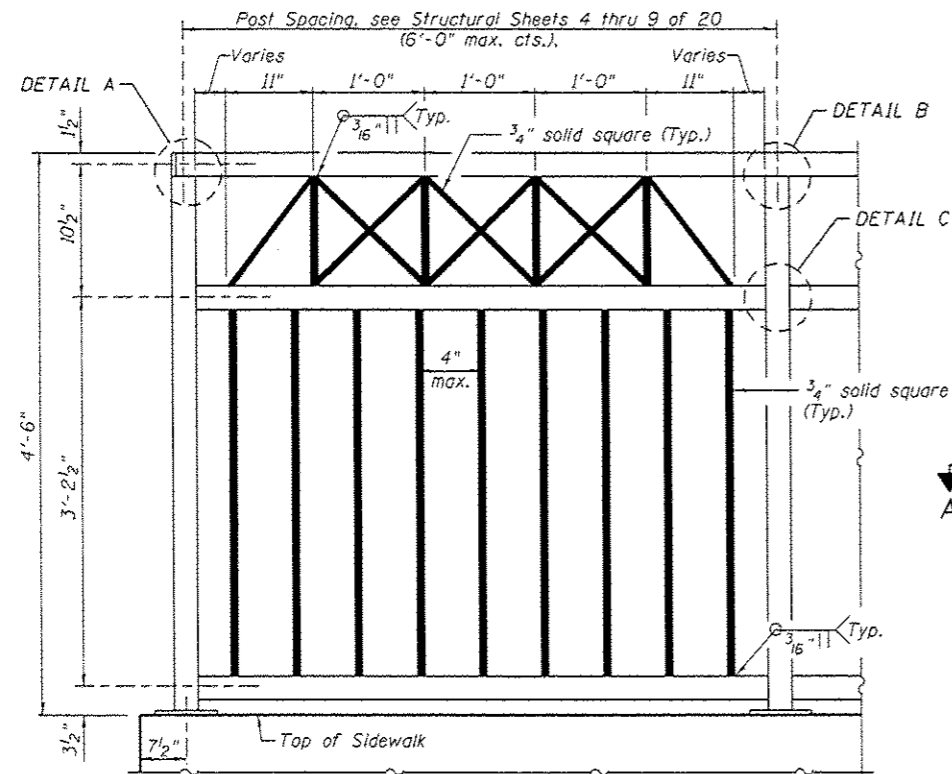
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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 101-6352**

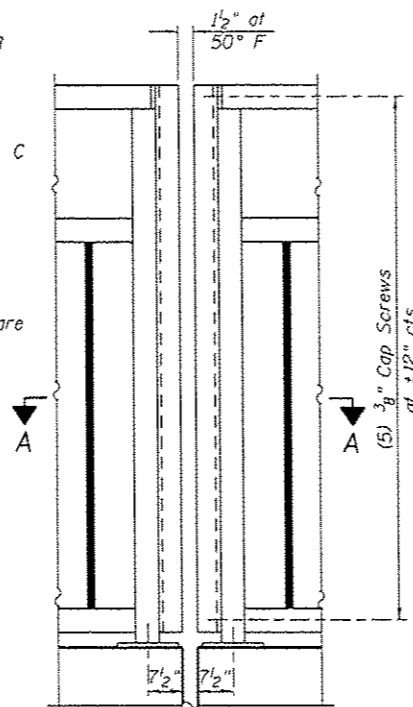
STRUCTURAL SHEET NO. 10 OF 20 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	WHA* 1016R13	CONTRACT NO.	85620	
[ILLINOIS] FED. AID PROJECT TE-00020581				



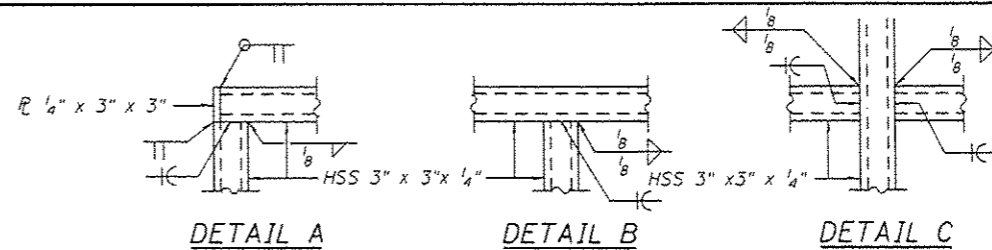
BICYCLE RAILING

(Remove 1'-0" section of decorative top bars as necessary.)

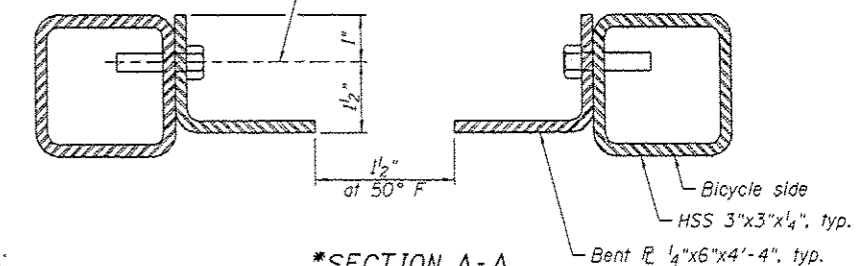


BICYCLE RAILING

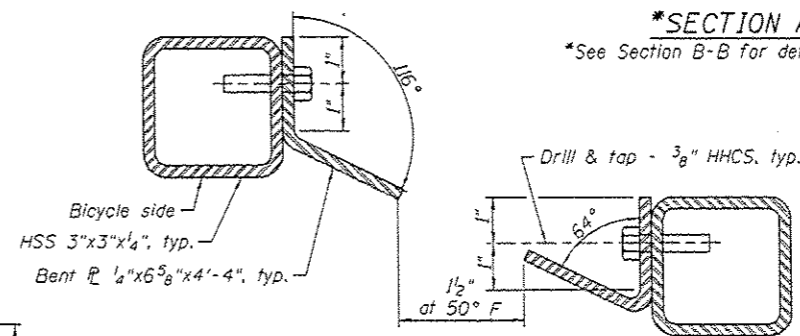
(At expansion joints)



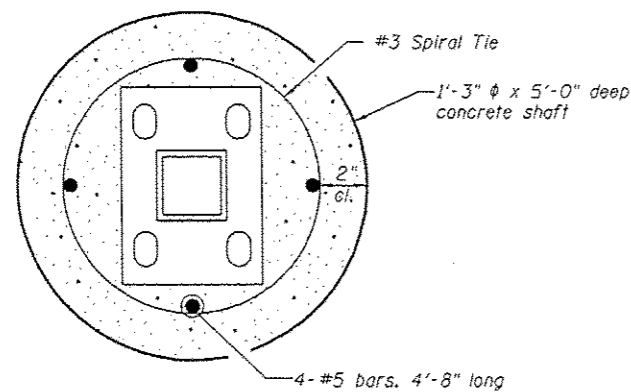
Drill & tap - 3/8" HHCS, typ.



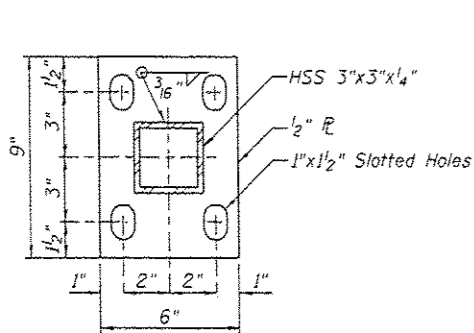
***SECTION A-A**
*See Section B-B for detail at Pier #1



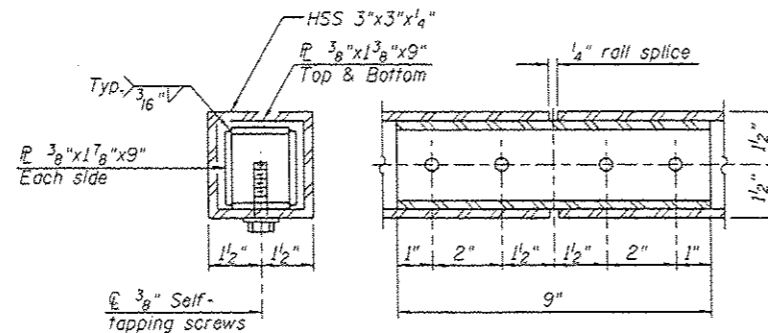
SECTION B-B
(Detail at Pier #1)



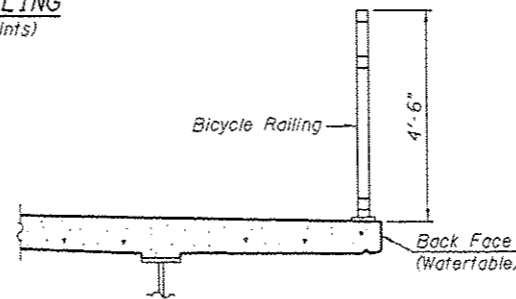
**** BASE PLATE BEYOND STRUCTURE**



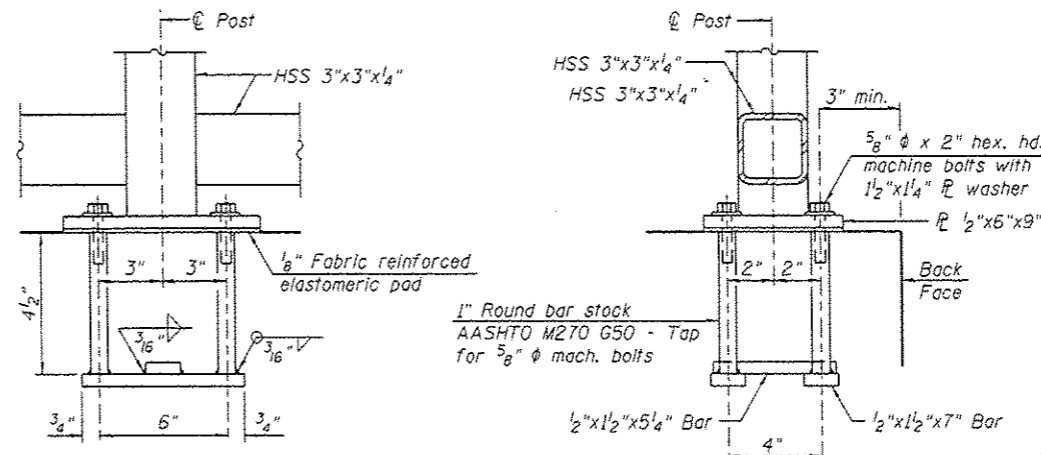
BASE PLATE



RAIL SPLICE



SECTION THRU DECK



ANCHOR ROD DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

LOCATION		LINEAL FOOT
Span #1	Right	28
	Left	28
Span #2	Right	77
	Left	70
Span #3	Right	62
	Left	62
Span #4	Right	150
	Left	156
Span #5	Right	157
	Left	150
Span #6	Right	150
	Left	156
Span #7	Right	156
	Left	150
Span #8	Right	150
	Left	156
Beyond N. Abut.	Left	35

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	1,893

NOTE:

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications and powdered coated per the Special Provisions.

** Cost of base plate foundation shall be incidental to the cost of Bicycle Railing per foot.

FILE: S:\PROJECTS\2013\1486913_101\TEP\DESIGN\STRUCT\2013\06\09\1486913_101_Bicycle_Railing.dwg



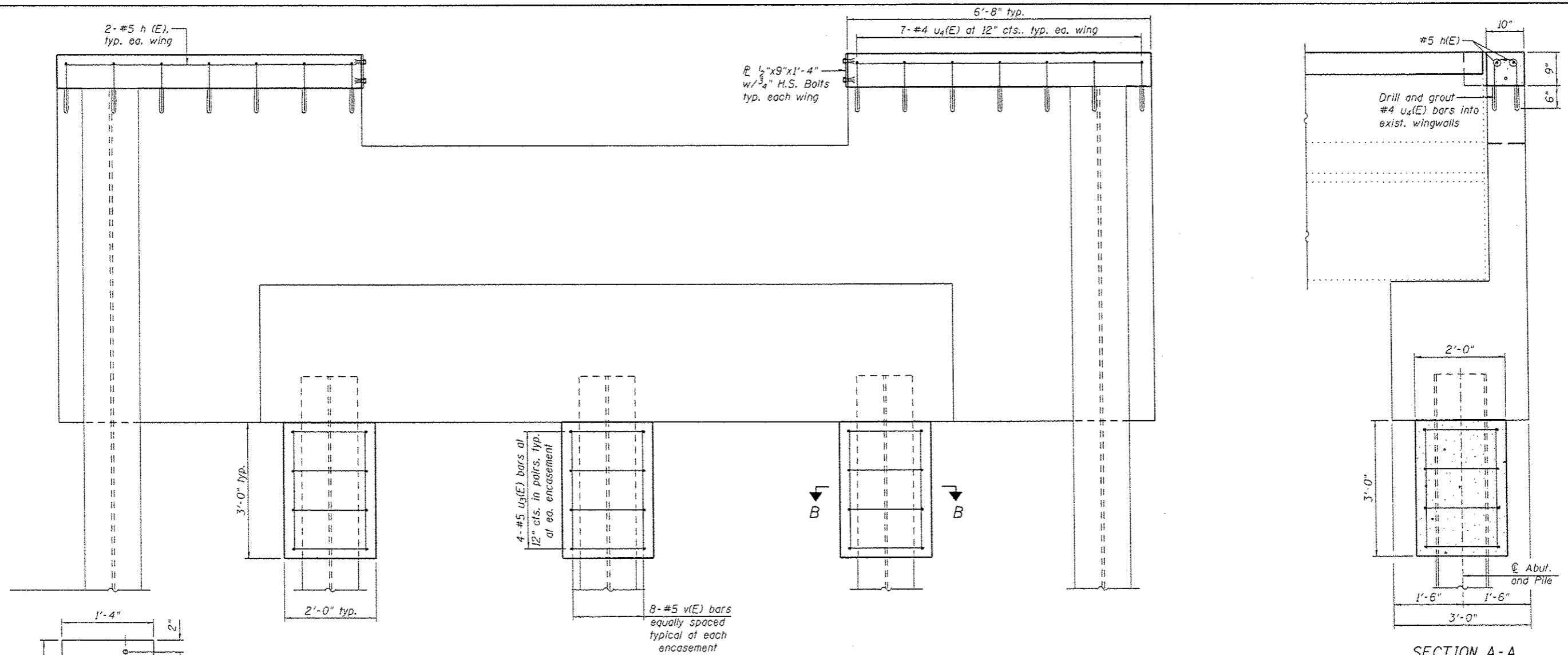
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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

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RAILS TO TRAILS OVER ROCK RIVER
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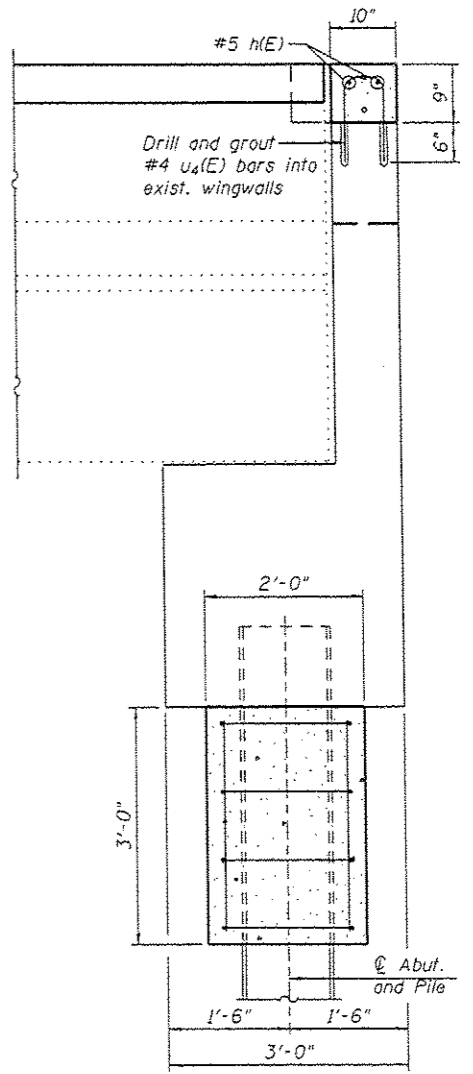
BICYCLE RAILING
STRUCTURE NO. 101-6352

STRUCTURAL SHEET NO. 12 OF 19 SHEETS

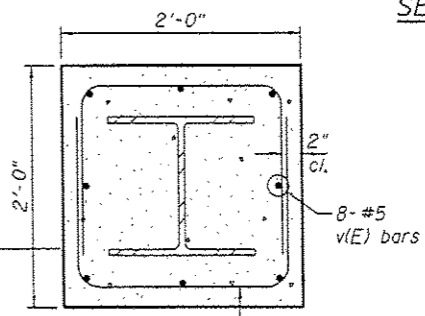
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	31
	WHA* 1016R13			CONTRACT NO. 85620
				[ILLINOIS] FED. AID PROJECT TE-000211581



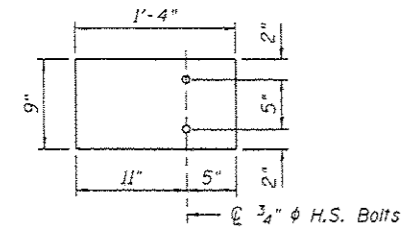
ELEVATION



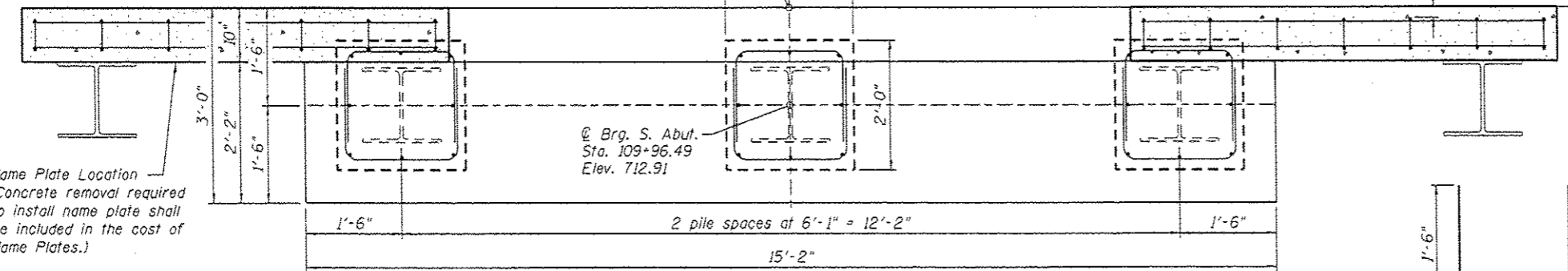
SECTION A-A



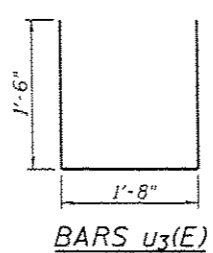
SECTION B-B



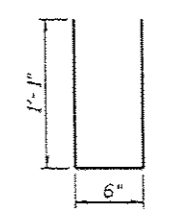
1/2" R DETAIL



PLAN



BARS u3(E)



BARS u4(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#5	6'-4"	—
u3(E)	24	#5	4'-8"	U
u4(E)	14	#4	2'-8"	U
v(E)	24	#5	2'-8"	—
Concrete Superstructure			Cu. Yd.	0.3
Concrete Encasement			Cu. Yd.	1.3
Reinforcement Bars, Epoxy Coated			Pound	240
Furnishing & Erecting Structural Steel			Pound	41

Name Plate Location
(Concrete removal required to install name plate shall be included in the cost of Name Plates.)

FILE: S:\PROJECTS\2013\1016R13_R01\TEP\DESIGN\STRUCT\2013\1016R13_South Abutment Details.dgn

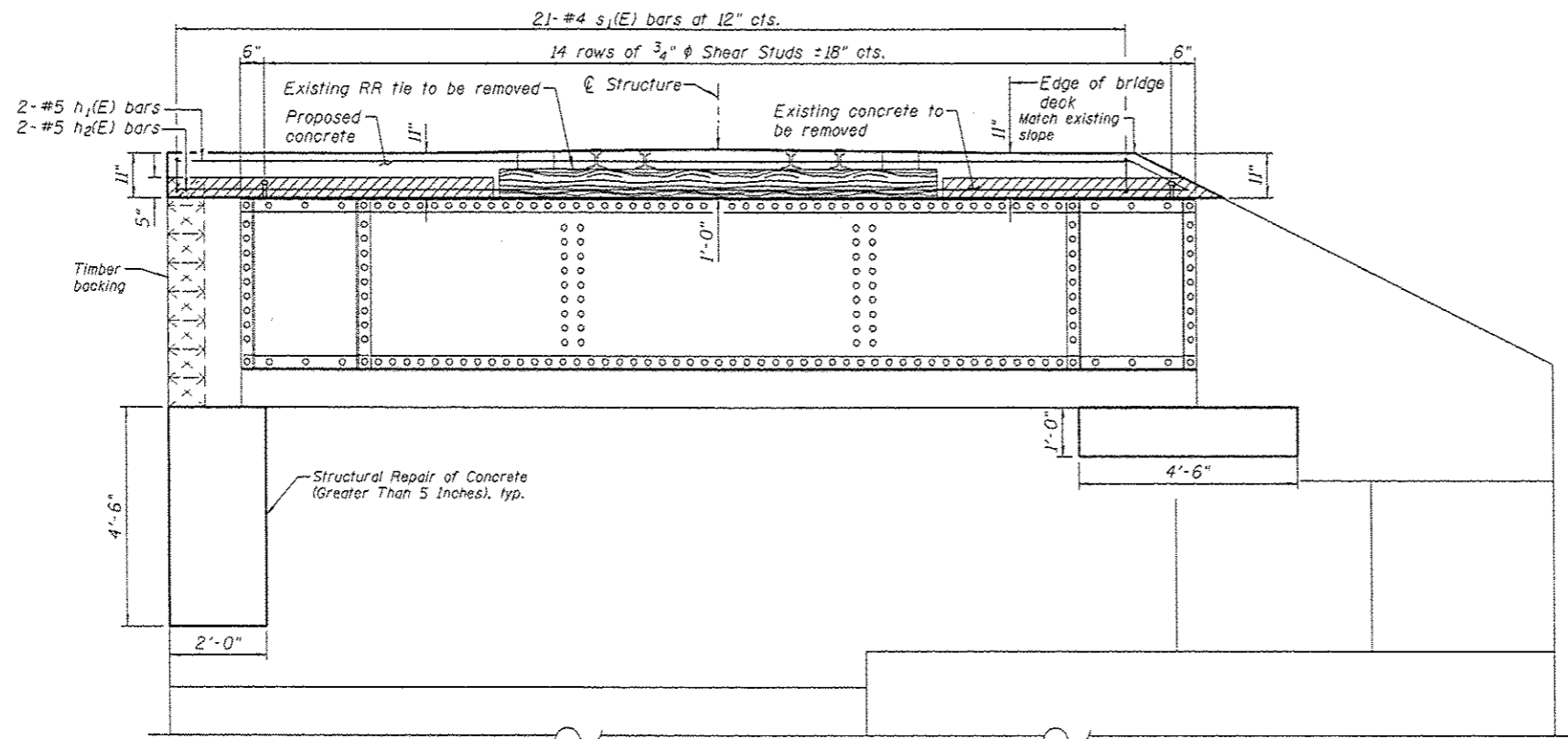


DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

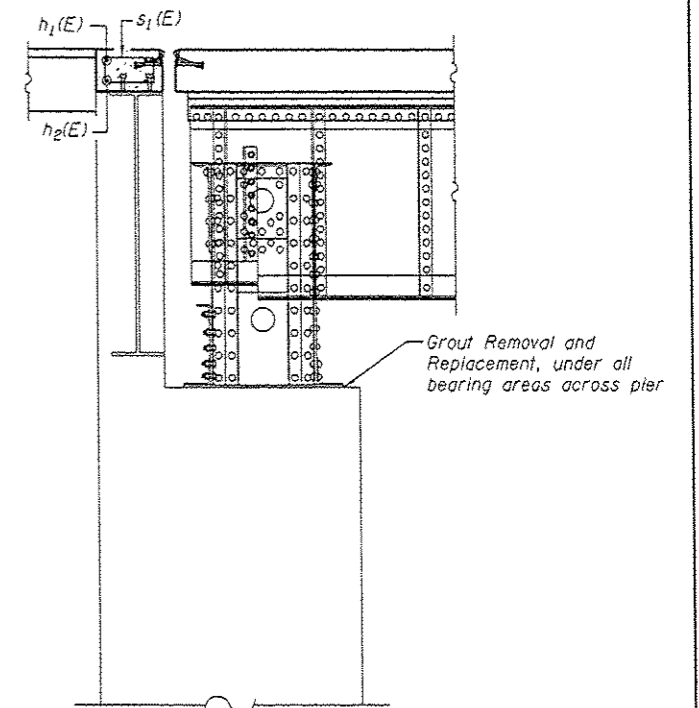
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 15 OF 20 SHEETS

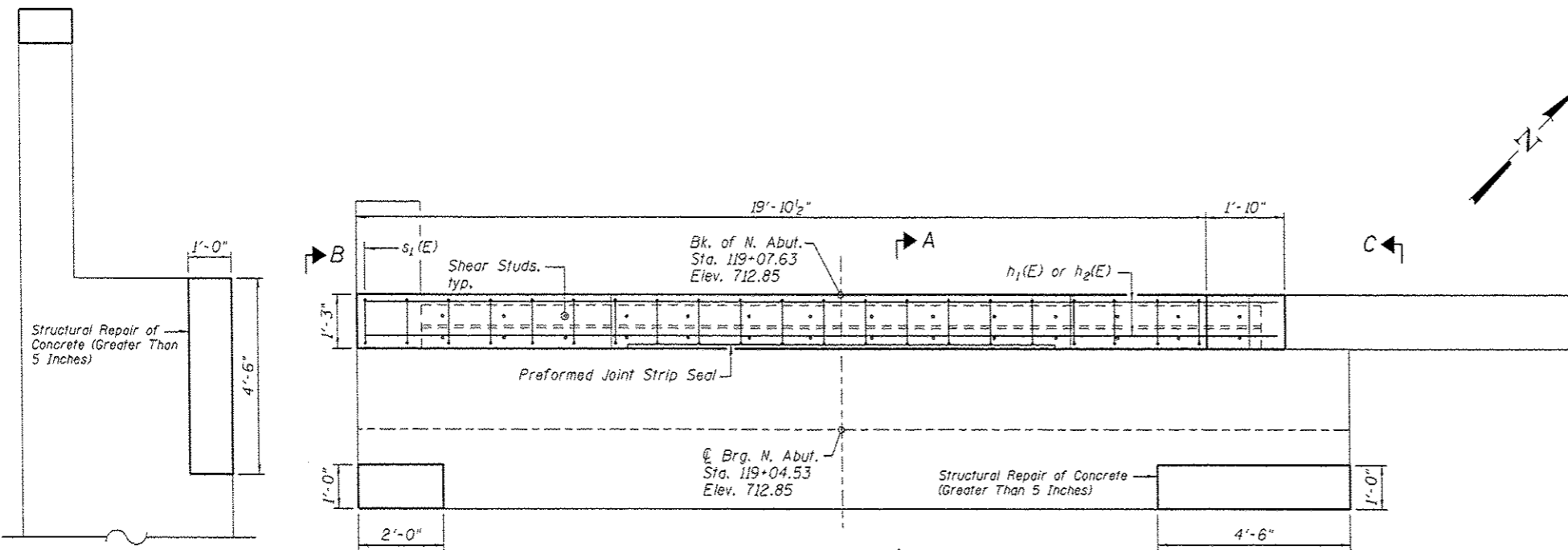
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	14-00608-00-BT	WINNEBAGO	38	33
	WHA# 1016R13	WINNEBAGO		CONTRACT NO. 85620
[ILLINOIS] FED. AID PROJECT TE-00021581				



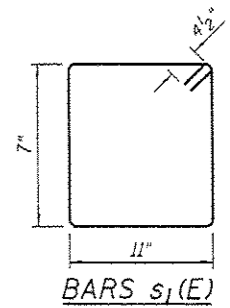
ELEVATION



SECTION A-A

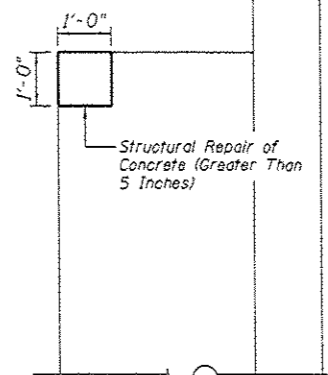


PLAN



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
$h_1(E)$	2	#5	19'-6"	—	
$h_2(E)$	2	#5	21'-4"	—	
$s_1(E)$	21	#4	3'-9"	□	
Concrete Superstructure			Cu. Yd.		0.9
Concrete Removal			Cu. Yd.		0.4
Reinforcement Bars, Epoxy Coated			Pound		140
Stud Shear Connectors			Each		28
Structural Repair of Concrete (Greater Than 5 Inches)			Sq. Ft.		26
Grout Removal and Replacement			Each		1



SECTION C-C

FILE: S:\PROJECTS\2013\185613_P01\TEPA\DESIGN\STRUCT\2013\0-Concept\185613_North Abutment Details.dgn



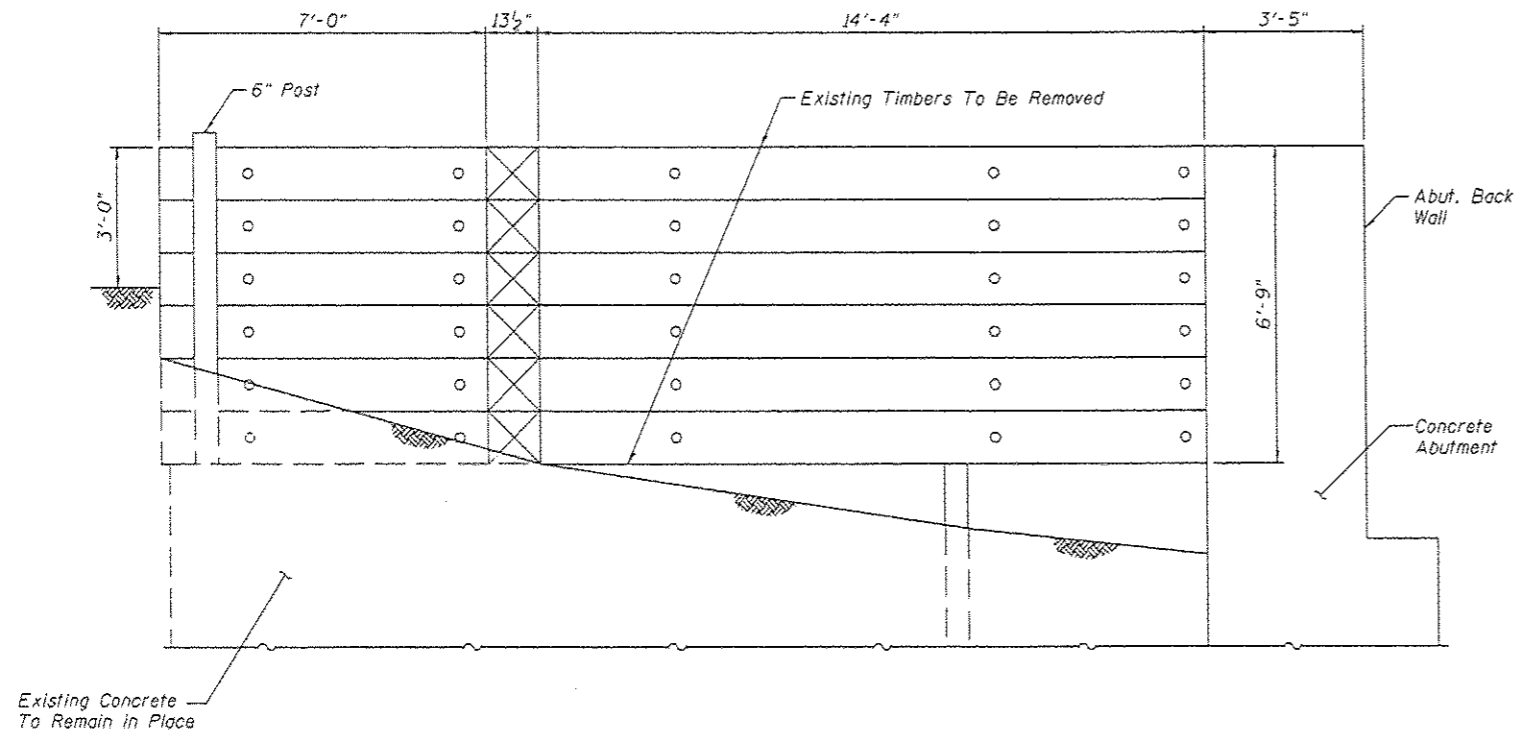
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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

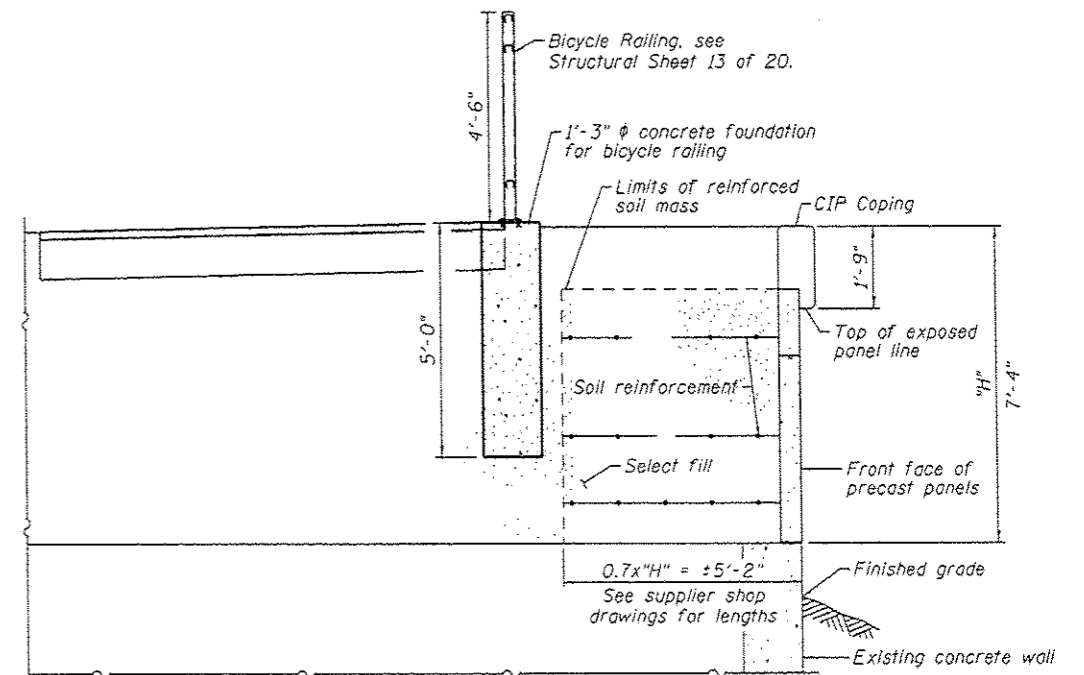
NORTH ABUTMENT DETAILS
STRUCTURE NO. 101-6352

STRUCTURAL SHEET NO. 18 OF 20 SHEETS

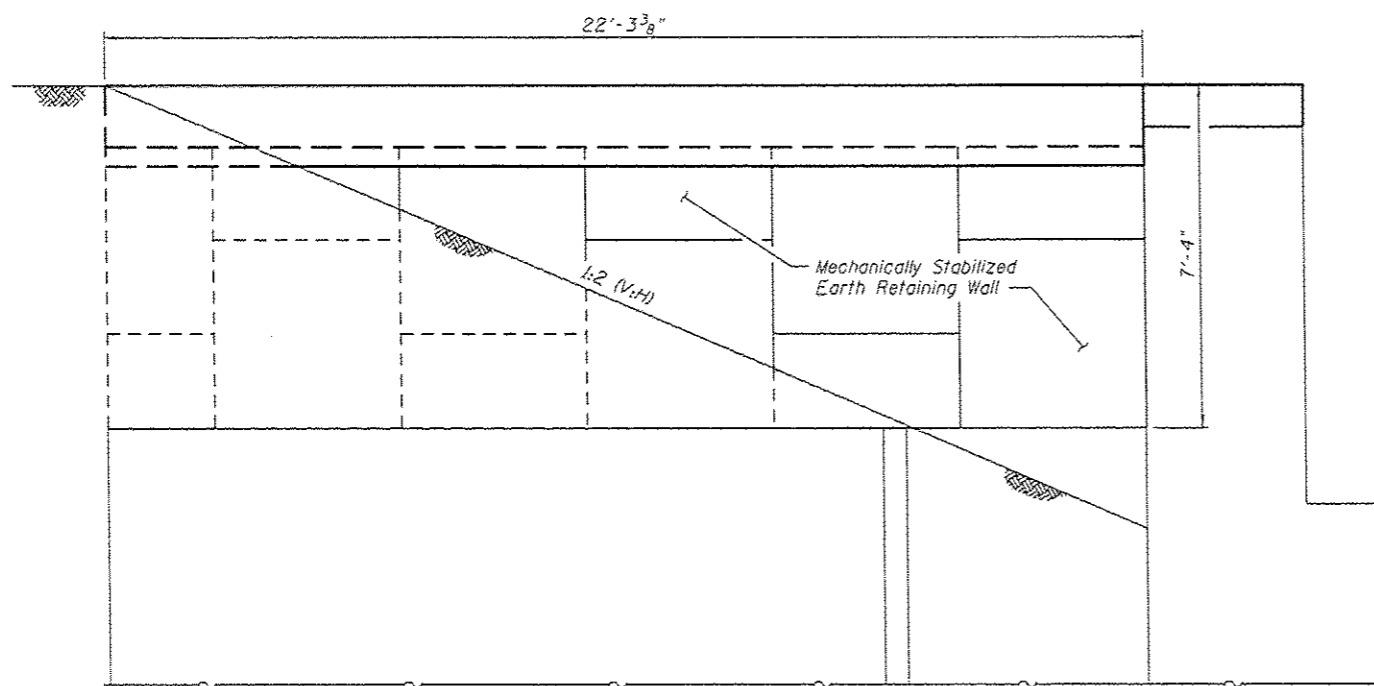
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[ILLINOIS] FED. AID PROJECT TE-0020581				



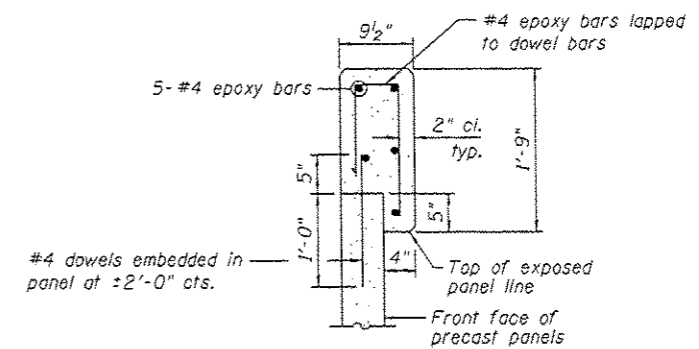
EXISTING WEST WING WALL
(Looking North)



SECTION THRU MSE WALL



PROPOSED MSE WALL ELEVATION
(Looking North)



EXISTING WEST WING WALL

BILL OF MATERIAL

Item	Unit	Quantity
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	124

FILE: G:\PROJECTS\2013\1616103\POLITEDESIGN\STRUCT\20.Dr-ansp\1616103.MSE Wall Details.dgn



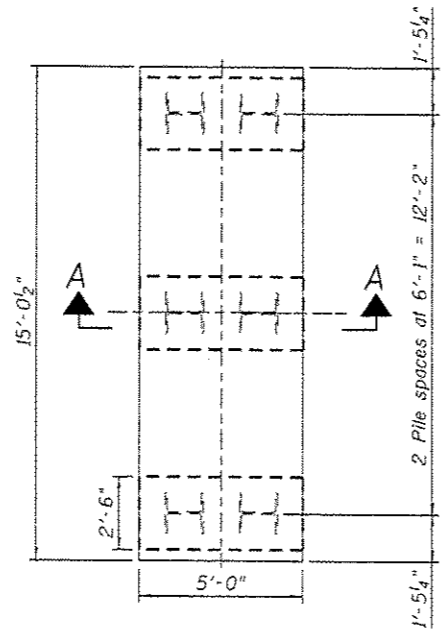
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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
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CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

MSE WALL DETAILS
STRUCTURE NO. 101-6352

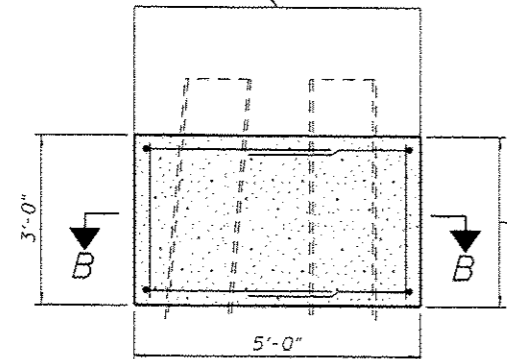
STRUCTURAL SHEET NO. 17 OF 20 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	WHA* 1016R13		CONTRACT NO. 85620	
ILLINOIS FED. AID PROJECT TE-000241581				

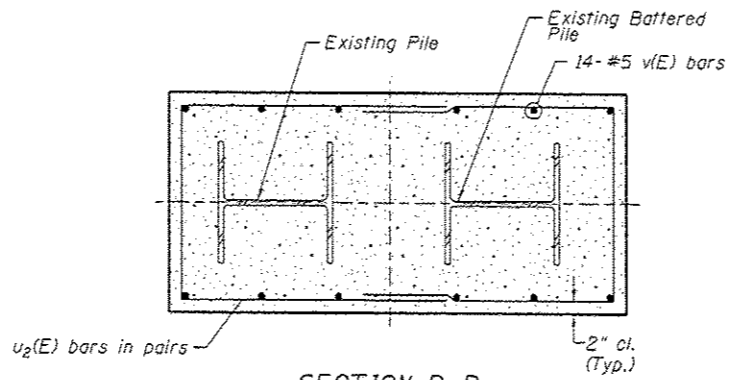


PLAN

Grout Removal and Replacement under all bearing locations across pier (Plate Girder side only)

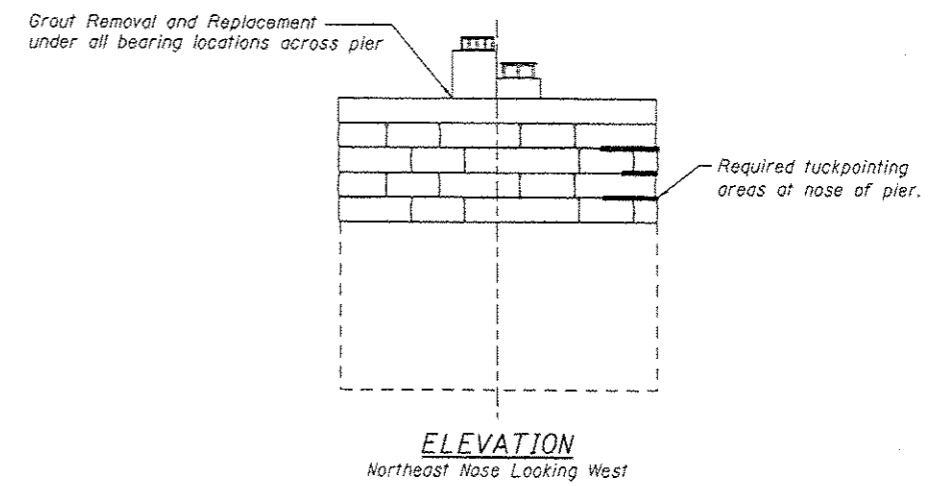


SECTION A-A
Typical Each Encasement

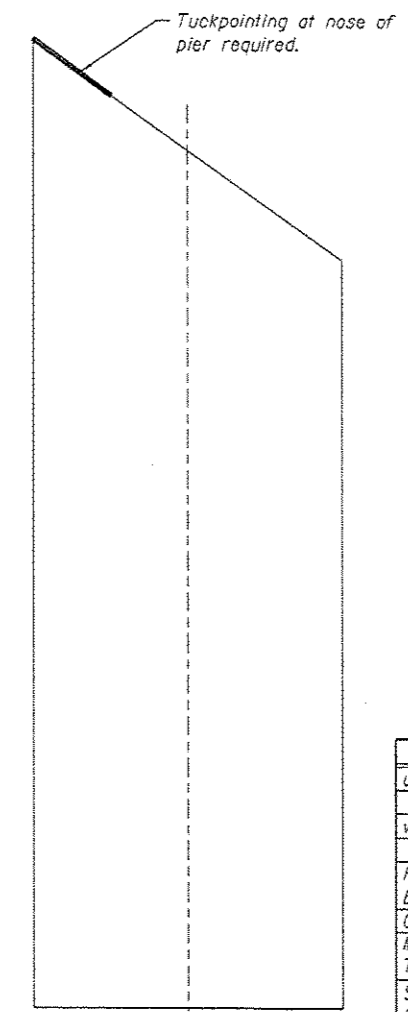


SECTION B-B

PIER #1

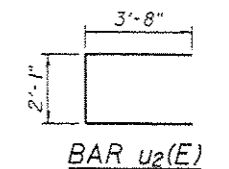


ELEVATION
Northeast Nose Looking West



PLAN

PIER #2



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
U ₂ (E)	24	#5	9'-5"	□
v(E)	42	#5	2'-8"	—
Reinforcement Bars, Epoxy Coated		Pound		360
Concrete Encasement		Cu. Yd.		4.2
Masonry Cleaning & Tuckpointing		Sq. Yd.		37
Structural Repair of Concrete (Greater than 5 Inches)		Sq. Ft.		114
Grout Removal and Replacement		Each		6

FILE: S:\PROJECTS\2015\106813\101111\DESIGN\STRUCT\CD_Drawing\101111_Pier_Repair_Details.dwg



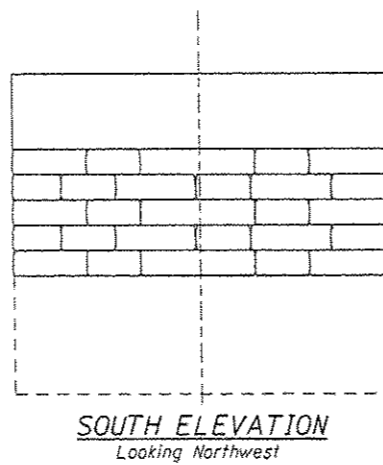
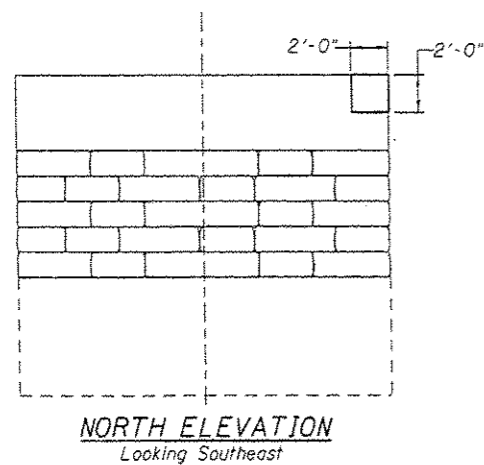
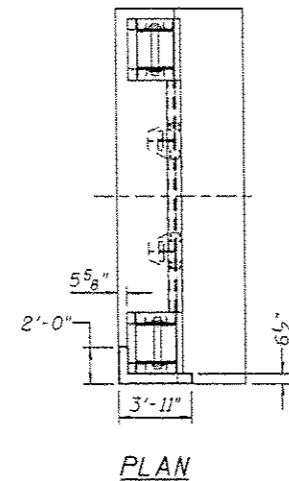
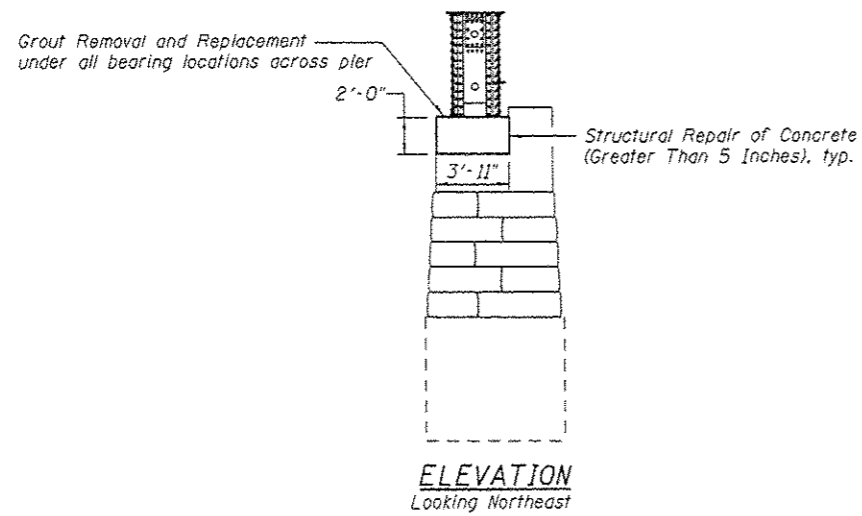
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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

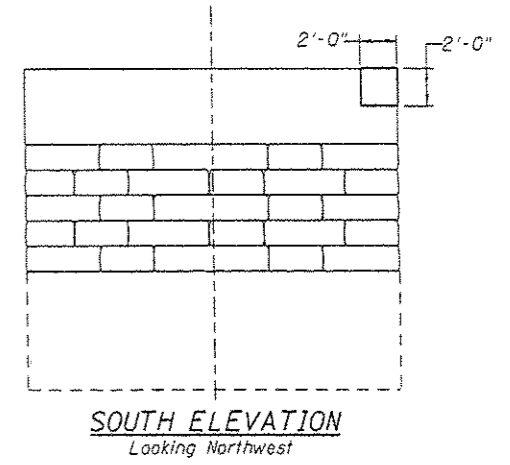
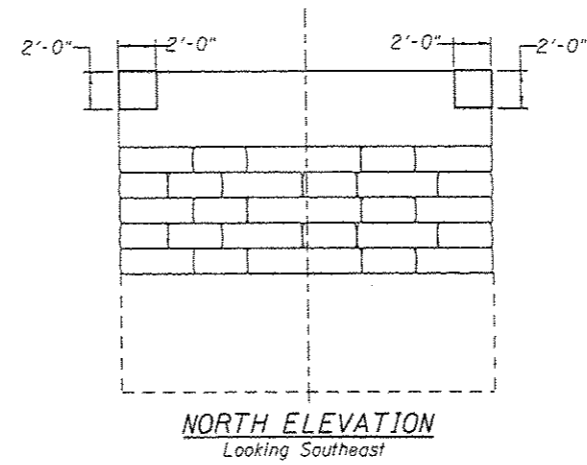
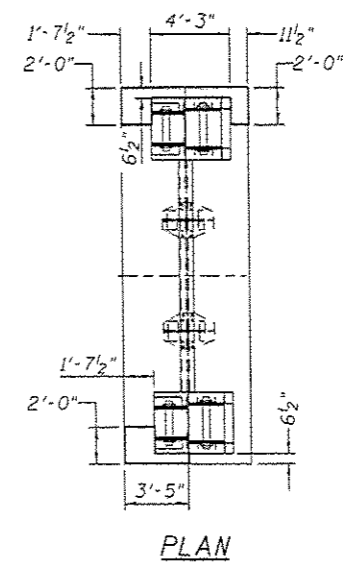
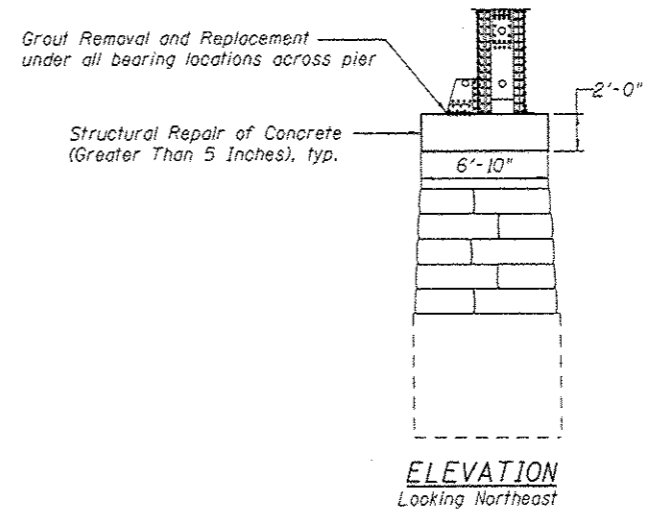
PIER REPAIR DETAILS
STRUCTURE NO. 101-6352

STRUCTURAL SHEET NO. 18 OF 20 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA* 1016R13			CONTRACT NO. 85620	
ILLINOIS FED. AID PROJECT YE-600205B				

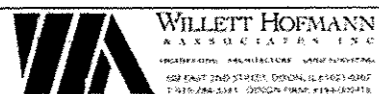


PIER #3



PIER #4

FILE: S:\PROJECTS\2013\1016R13_Pier_Repair_Details.dgn

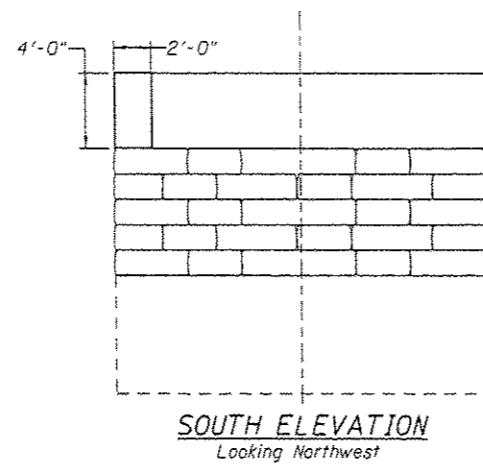
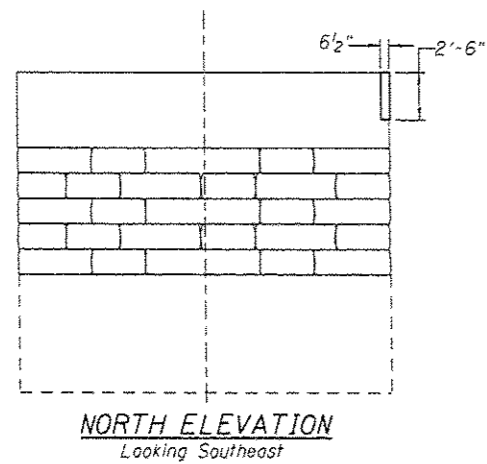
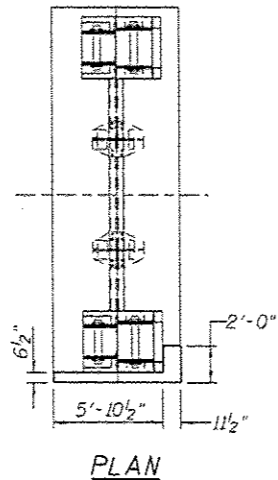
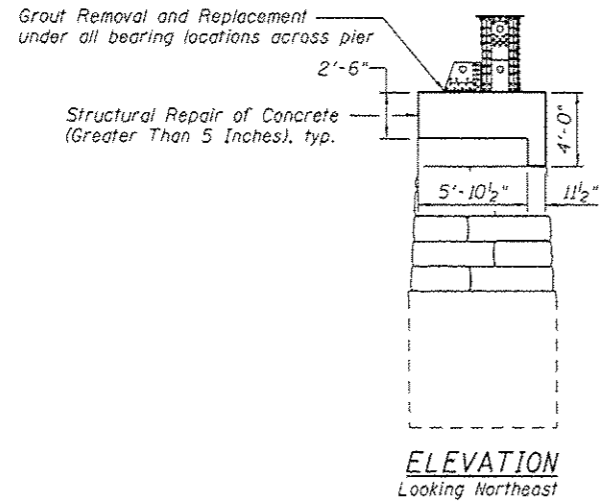


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CHECKED - MAC	REVISED -
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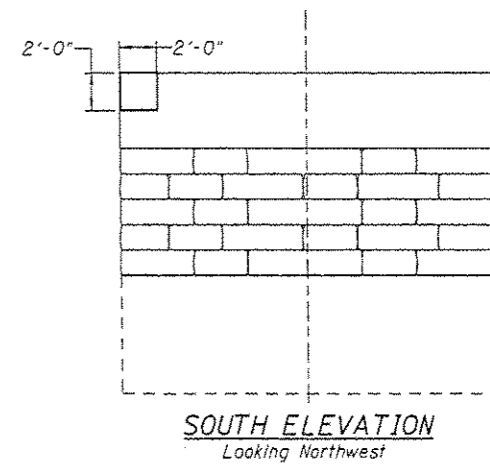
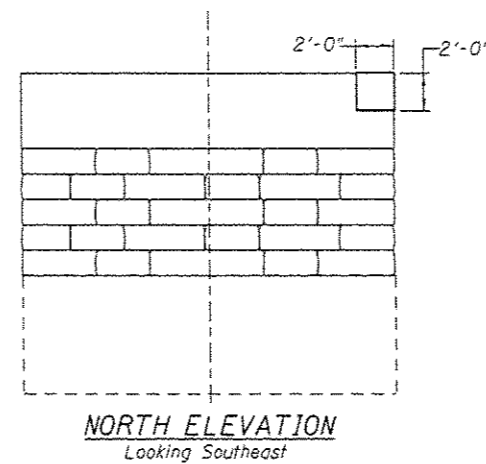
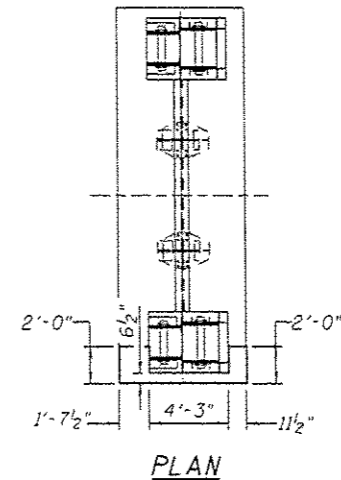
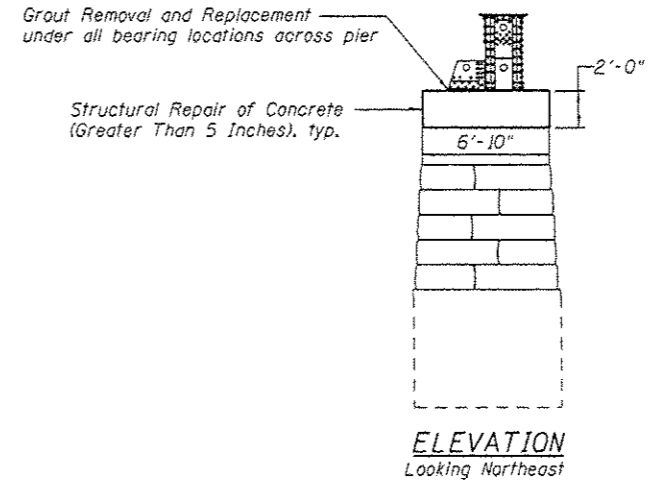
CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015

PIER REPAIR DETAILS
STRUCTURE NO. 101-6352
STRUCTURAL SHEET NO. 19 OF 20 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	37
	WHA* 1016R13		CONTRACT NO. 85620	
[ILLINOIS] FED. AID PROJECT TE-00021581				



PIER #6



PIER #7

FILE: S:\PROJECTS\2810\1016R13_R01\TEPADESIGN\STRUCT\2015\1016R13_Pier_Details.dgn



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CHECKED - MAC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

**CITY OF ROCKFORD
RAILS TO TRAILS OVER ROCK RIVER
2015**

**PIER REPAIR DETAILS
STRUCTURE NO. 101-6352**

STRUCTURAL SHEET NO. 20 OF 20 SHEETS

F.A. RYER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00608-00-BT	WINNEBAGO	38	38
	WHA* 1016R13		CONTRACT NO. 05620	
	ILLINOIS FED. AID PROJECT TE-0002(158)			