

01-17-14 LETTING ITEM 036

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 599 (IL-92)  
SECTION D2 Deck Repair 2014-1  
C-92-115-13

ROCK ISLAND COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	D2 Deck Repair 2014-1	Rock Island	16	1
FED. ROAD DIST. NO. 2		ILLINOIS	CONTRACT NO. 64J90	

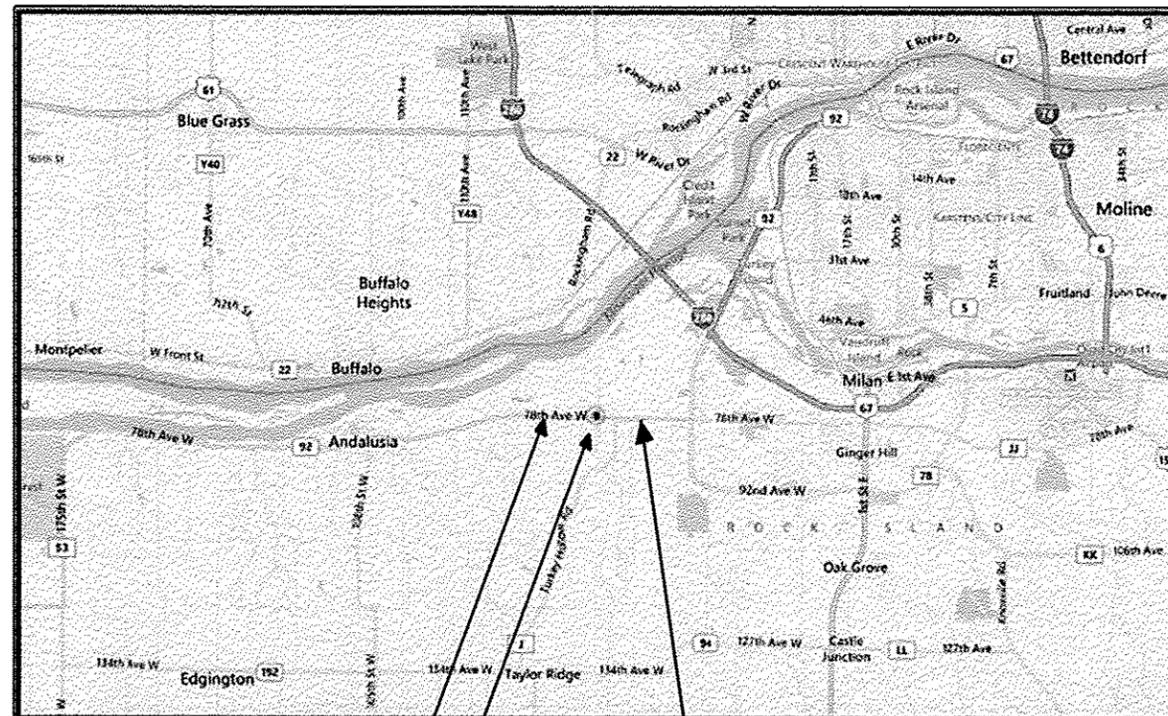
FOR INDEX OF SHEETS, SEE SHEET No. 2  
FOR STATE STANDARDS, SEE SHEET No. 2



D-92-075-13



R 2 W  
T 17 N



J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: Mahmoud Etemadi (815)-284-5393

WEST PART BLACKHAWK TOWNSHIP, SECTION 19, 30

CONTRACT NO. 64J90

PROJECT STARTS at Sta. 1236 + 47

SN: 081-0117

PROJECT ENDS at Sta. 1239 + 98.7

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct 9 20 13  
*Tam A. Luten*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 6 20 13  
*John D. Baranzelli PE, KS*  
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6 20 13  
*Omer Osman PE, KS*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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**STATE STANDARDS**

701001 - 02	Off-Road Operations, 2L, 2W, More than 15' (4.5 m) Away
701006 - 05	Off-Rd Operations, 2L, 2W, 15' to 24" from Pavement Edge
701011 - 04	Off-Rd Operations, 2L, 2W, Day Only
701201 - 04	Lane Closure, 2L, 2W, Day Only, for Speeds $\geq$ 45MPH
701301 - 04	Lane Closure, 2L, 2W, Short Time Operation
701311 - 03	Lane Closure, 2L, 2W, Moving Operation - Day Only
701321 - 13	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701326 - 04	Lane Closure, 2L, 2W, Pavement Widening, for Speeds $\geq$ 45 MPH
701901 - 03	Traffic Control Devices
704001 - 07	Temporary Concrete Barrier
720011 - 01	Metal Posts for Signs, Markers & Delineators
728001 - 01	Telescoping Steel Sign Support
729001 - 01	Applications of Types A & B Metal Posts (For Signs & Markers)
780001 - 03	Typical Pavement Markings

**DISTRICT STANDARDS:**

23.4a	- HOT-MIX ASPHALT SHOULDER
99.4	- STOP LINE SIGN FOR TEMPORARY SIGNALS
39.2	- INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES)
75.2	-
91.2	- ROUGH GROOVED SURFACE SIGN

**GENERAL NOTES:**

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

COMPANY/TYPE	AT&T/TELEPHONE
CONTACT INFO.	Mr. DAVID CREEN (309)-757-4707 OR (800)892-0123
ADDRESS	1720 6 <sup>TH</sup> AVE., FLR1 MOLINE, IL 61265
COMPANY/TYPE	MIDAMERICAN ENERGY COMPANY/ELECTRIC
CONTACT INFO.	Mr. JASON TERRY (309)-793-3649 OR (800)892-0123
ADDRESS	2811-5 <sup>TH</sup> AVE. ROCK ISLAND, IL 61201
COMPANY/TYPE	MidAmerican ENERGY COMPANY/GAS
CONTACT INFO.	Mr. ROD HAWK (309)793-3760 OR (800)892-0123
ADDRESS	2811- 5 <sup>TH</sup> AVE. ROCK ISLAND, IL 61201
COMPANY/TYPE	CITY OF ROCK ISLAND/WATER&SEWER
CONTACT INFO.	Mr. MIKE KANE (309) 732-2238 OR (800)892-0123
ADDRESS	1309 MILL STREET ROCK ISLAND, IL 61201

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Mill approaches and shoulders to provide a straight taper profile from existing pavement to the proposed deck surface. Depth of milling at existing pavement tie in is 1 1/2". At structure, remove enough existing surface to provide minimum 1 1/2" thickness for HMA surface.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earth moving activities, including temporary stockpiling outside the limits of construction.

The cost of the removal of existing expansion joints is included in the pay item Preformed Joint Strip Seal.

The final top four inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Yard for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the EARTH EXCAVATION.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per ton for HMA Surface of the type specified.

The excavated materials from earth excavation and shoulders special, shall be used to construct the embankment for traffic barrier terminals. To be included in the cost of Earth Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type 1 Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type 1 Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180 and only metal-backed delineators shall be permitted. Delineators shall be placed at the ends of approach guardrail terminal sections. This work will be paid for at the contract unit price each for DELINEATORS

Temporary Impact Attenuators will be measured as each for each attenuator supplied on the job as specified in the plans, and shall include the cost of renting/owning the attenuator for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, TEMPORARY of the type specified.

Relocate Temporary Impact Attenuators will be paid for as Each and will be paid for each time the attenuator is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE of the type specified.

This work shall be done in accordance with Section 704 of the Standard Specifications. Temporary Concrete Barrier will be measured in feet along the centerline of the barrier and shall include the cost of renting/owning the barrier for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway in accordance with Section 704 of the Standard Specification. This shall be paid for at the contract unit price per Foot for TEMPORARY CONCRETE BARRIER.

Relocate Temporary Concrete Barrier will be paid for in Feet along the centerline of the barrier, and will be paid for each time the barrier is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Foot for RELOCATE TEMPORARY CONCRETE BARRIER.

Temporary HMA ramps shall be placed where the existing pavement meets the proposed deck surface. Any differential of 1/2 inch or greater shall have a minimum taper ratio of 1:50 (V:H).

URBAN  
100% STATE

CODE NUMBER	ITEM	0014 STATE FUNDS	
		UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	93
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	167
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	60
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	45
44001114	HOT-MIX ASPHALT SURFACE REMOVAL (ASBESTOS)	SQ YD	366
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	134
50102400	CONCRETE REMOVAL	CU YD	1.9
50300225	CONCRETE STRUCTURES	CU YD	2.6
50300260	BRIDGE DECK GROOVING	SQ YD	345
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,090
50800515	BAR SPLICERS	EACH	80
50901050	STEEL RAILING, TYPE SM	FOOT	146
52000110	PREFORMED JOINT STRIP SEAL	FOOT	45
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	400
63500105	DELINEATORS	EACH	4
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2

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NOTE: \* SPECIALTY ITEMS

\*\* ESTIMATED QUANTITIES. ACTUAL QUANTITIES TO BE DETERMINATED BY RESIDENT ENGINEER

URBAN  
100% STATE

CODE NUMBER	ITEM	0014 STATE FUNDS	
		UNIT	TOTAL QUANTITY
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	48
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	26
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	798
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,236
70400100	TEMPORARY CONCRETE BARRIER	FOOT	380.1
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	316.8
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2,858
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	10
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	572
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9
X0326519	STEEL RAILING REMOVAL	FOOT	146
X0964700	SHOULDERS SPL	SQ YD	216
X4060995	TEMPORARY RAMP, SPECIAL	SQ YD	135
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	934
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	366
* * 20003700	BEARING PAD ADJUSTMENT	EACH	16
20004540	HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE	SQ YD	366
* * 20017300	DOWEL REPAIR	EACH	32
* * 20032700	KEYWAY REPAIR	FOOT	250

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DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 599	SECTION D2 DECK REPAIR 2014-1	COUNTY ROCK ISLAND	TOTAL SHEETS	SHEET NO.
DRAWN -		REVISED -							16	3
CHECKED -		REVISED -							CONTRACT NO. 64J90	
DATE -		REVISED -								

CU YD	LOCATION	OFFSET
	IL 92	
93	Sta 1236 +47 - 1237 + 22	LT, RT
93	TOTAL	

SQ YD	LOCATION	OFFSET
	IL 92	
167	Sta 1236 +47 - 1237 + 22	LT, RT
167	TOTAL	

TON	LOCATION	OFFSET
	IL 92	
30	Sta 1237 +22 - 1238 + 22	
30	Sta 1238 +98.7 - 1239 + 98.7	
60	TOTAL	

TON	LOCATION	OFFSET
	IL 92	
15	Sta 1236 +47 - 1237 + 22	LT,RT
15	Sta 1237 +22 - 1238 + 22	LT,RT
15	Sta 1238 +98.7 - 1239 + 98.7	LT,RT
45	TOTAL	

SQ YD	LOCATION	OFFSET
	IL 92	
134	Sta 1236 +47 - 1237 + 22	LT,RT
134	TOTAL	

CU YD	LOCATION	OFFSET
	IL 92	
1.9	Sta 1238 +22 - 1238 + 98.7	
1.9	TOTAL	

CU YD	LOCATION	OFFSET
	IL 92	
0.65	At Sta. 1238 +22	
0.65	At Sta. 1238 +98.7	
1.3	TOTAL	

SQ YD	LOCATION	OFFSET
	IL 92	
345	Sta 1238 +22 - 1238 + 98.7	
345	TOTAL	

POUND	LOCATION	OFFSET
	IL 92	
5,090	Sta 1238 +22 - 1238 + 98.7	
5,090	TOTAL	

EACH	LOCATION	OFFSET
	IL 92	
80	Sta 1238 +22 - 1238 + 98.7	
80	TOTAL	

FOOT	LOCATION	OFFSET
	IL 92	
73	Sta 1238 +23.85 - 1238 + 96.85	LT
73	Sta 1238 +23.85 - 1238 + 96.85	RT
146	TOTAL	

FOOT	LOCATION	OFFSET
	IL 92	
45	At Sta. 1238 +22	
45	TOTAL	

FOOT	LOCATION	OFFSET
	IL 92	
12.5	Sta 1239 +42.45 - 1239 + 54.95	LT
12.5	Sta 1237 +65.75 - 1237 + 78.25	RT
25.0	TOTAL	

EACH	LOCATION	OFFSET
	IL 92	
1	Sta 1237 +78.25 - 1238 + 22	LT
1	Sta 1238 +98.7 - 1239 + 42.45	LT
1	Sta 1237 +78.25 - 1238 + 22	RT
1	Sta 1238 +98.7 - 1239 + 42.45	RT
4	TOTAL	

EACH	LOCATION	OFFSET
	IL 92	
1	Sta 1237 +28.25 - 1237 + 78.25	LT
1	Sta 1237 +15.75 - 1237 + 65.75	LT
1	Sta 1239 +54.95 - 1240 + 04.95	RT
1	Sta 1239 +42.45 - 1239 + 92.45	RT
4	TOTAL	

FOOT	LOCATION	OFFSET
	IL 92	
100	Sta 1237 +22 - 1238 + 22	LT
100	Sta 1238 +98.7 - 1239 + 98.7	LT
100	Sta 1237 +22 - 1238 + 22	RT
100	Sta 1238 +98.7 - 1239 + 98.7	RT
400	TOTAL	

EACH	LOCATION	OFFSET
	IL 92	
1	At. Sta 1237 +28.25	LT
1	At. Sta 1240 +04.95	LT
1	At. Sta 1237 +15.75	RT
1	At. Sta 1239 +92.45	RT
4	TOTAL	

FOOT	LOCATION	OFFSET
	IL 92	
28	Sta 1237 +22 - 1239 + 98.7	FINAL SURFACE
20	Sta 1237 +22 - 1239 + 98.7	MILLED SURFACE
48	TOTAL	

FOOT	LOCATION	OFFSET
	IL 92	
13	Sta 1234 +97	RT
13	Sta 1242 +48	LT
26	TOTAL	

SQ FT	LOCATION	OFFSET
	IL 92	
387		STAGE 1
411		STAGE 2
798	TOTAL	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**Schedule of Quantities**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	4
CONTRACT NO. 64J90				

70400100 TEMPORARY CONCRETE BARRIER

	FOOT	LOCATION	OFFSET
		IL 92	
STAGE 1	316.8	Sta 1236 +70.3 - 1239 + 87.1	
STAGE 2	63.3	Sta 1239 +87.1 - 1240 + 50.4	
	380.1	TOTAL	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	FOOT	LOCATION	OFFSET
		IL 92	
STAGE 2	316.8	Sta 1236 +70.3 - 1239 + 87.1	
	316.8	TOTAL	

70600250 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

	EACH	LOCATION	OFFSET
		IL 92	
	1	Sta 1236 +70.3	4.5' LT
	1	Sta 1239 +87.1	0.7' RT
	2	TOTAL	

70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

	EACH	LOCATION	OFFSET
		IL 92	
	1	Sta 1236 +70.3	4.5' RT
	1	Sta 1240 +50.4	4.5' RT
	2	TOTAL	

78005110 EPOXY PAVEMENT MARKING - LINE 4"

	FOOT	LOCATION	OFFSET
		IL 92	
	1,462	Sta 1235 +07 - 1242 + 38	LT, RT (WHITE LINE)
	1,396	Sta 1235 +07 - 1242 + 38	YELLOW LINE
	2,858	TOTAL	

78005150 EPOXY PAVEMENT MARKING - LINE 12"

	FOOT	LOCATION	OFFSET
		IL 92	
	10	Sta 1240 +83 - 1242 + 48	YELLOW LINE (MEDIAN)
	10	TOTAL	

78100100 RAISED REFLECTIVE PAVEMENT MARKER

	EACH	LOCATION	OFFSET
Two-Way Amber		IL 92	
	4	Sta 1234 +97 - 1238 + 22	
	5	1238 +98.7 1242 + 48	
	9	Total	

78200410 GUARDRAIL MARKERS, TYPE A

	EACH	LOCATION	OFFSET
		IL 92	
	16	Sta 1237 +15.75 - 1240 + 04.95	LT, RT
	16	Total	

78201000 TERMINAL MARKERS-DIRECT APPLIED

	EACH	LOCATION	OFFSET
		IL 92	
	1	At. Sta 1237 +28.25	LT
	1	At. Sta 1240 +04.95	LT
	1	At. Sta 1237 +15.75	RT
	1	At. Sta 1239 +92.45	RT
	4	TOTAL	

78300100 PAVEMENT MARKING REMOVAL

	STAGE	SQ FT	LOCATION	OFFSET
			IL 92	
	STAGE 1	437		
	STAGE 2	135		
		572		

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

	EACH	LOCATION	OFFSET
Two-Way Amber		IL 92	
	9	Sta 1234 +97 - 1242 + 48	
	9	TOTAL	

X0326519 STEEL RAILING REMOVAL

	FOOT	LOCATION	OFFSET
		IL 92	
	73	At. Sta 1238 +23.85 - 1238 + 96.85	LT
	73	At. Sta 1238 +23.85 - 1238 + 96.85	RT
	146	TOTAL	

X4060995 TEMPORARY RAMP SPECIAL

	SQ YD	LOCATION	OFFSET
		IL 92	
	17.5	At. Sta 1237 +22	
	50	At. Sta 1238 +22	
	50	At. Sta 1238 +98.7	
	17.5	At. Sta 1239 +98.7	
	135	TOTAL	

X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

	SQ YD	LOCATION	OFFSET
		IL 92	
	467	Sta 1237 +22 - 1238 + 22	
	467	Sta 1238 +98.7 - 1239 + 98.7	
	934	TOTAL	

X5030305 CONCRETE WEARING SURFACE, 5"

	SQ YD	LOCATION	OFFSET
		IL 92	
	366	Sta 1238 +22 - 1238 + 98.7	
	366	TOTAL	

Z0004540 HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE

	SQ YD	LOCATION	OFFSET
		IL 92	
	366	Sta 1238 +22 - 1238 + 98.7	
	366	TOTAL	

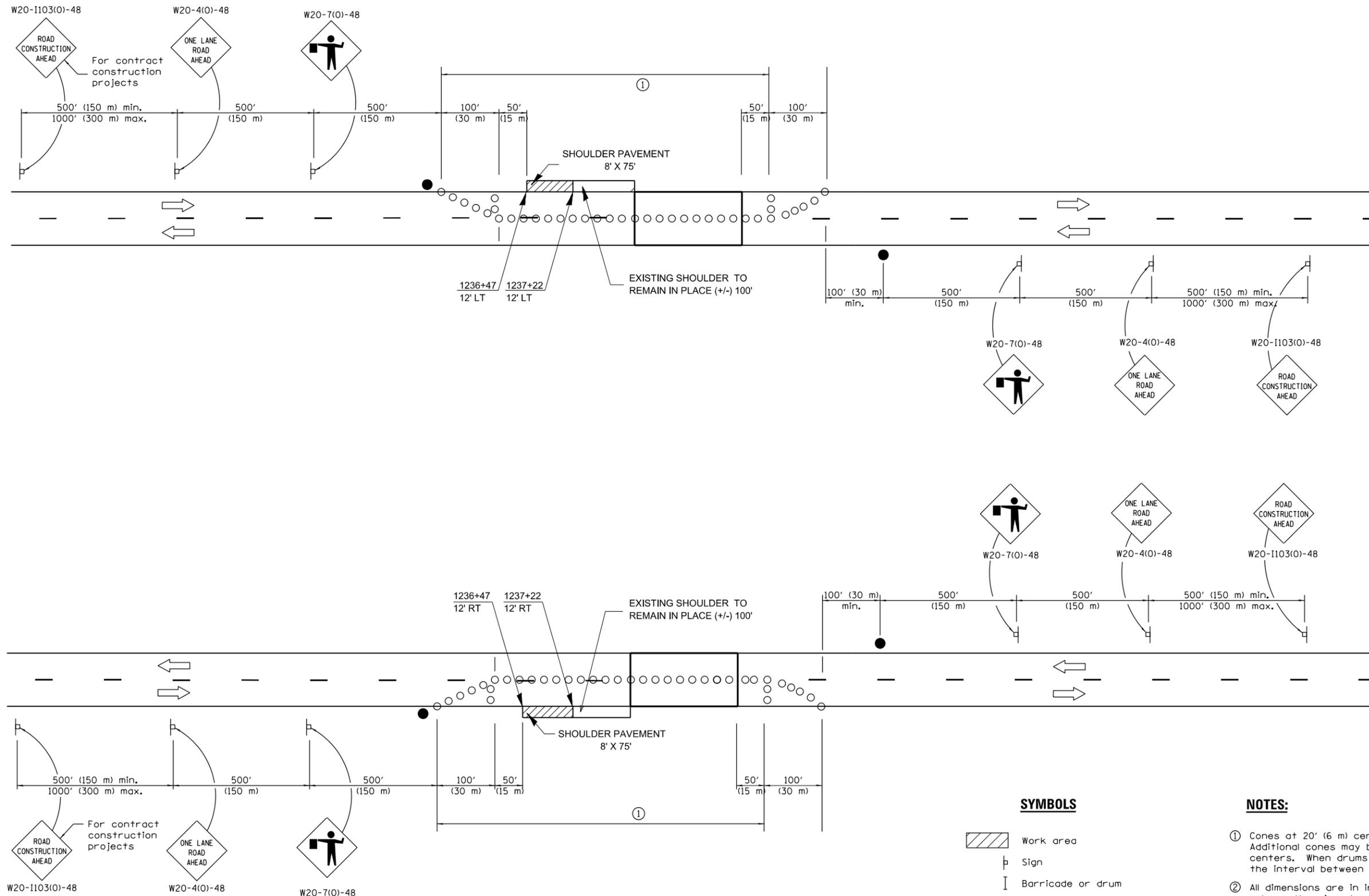
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DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Schedule of Quantities

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	D2 BRIDGE REPAIR 2014-1	ROCK ISLAND	16	5
			CONTRACT NO. 64J90	

# Pre-stage Traffic Control



### SYMBOLS

- Work area
- Sign
- Barricade or drum
- Cone, drum or barricade
- Flagger with traffic control sign

### NOTES:

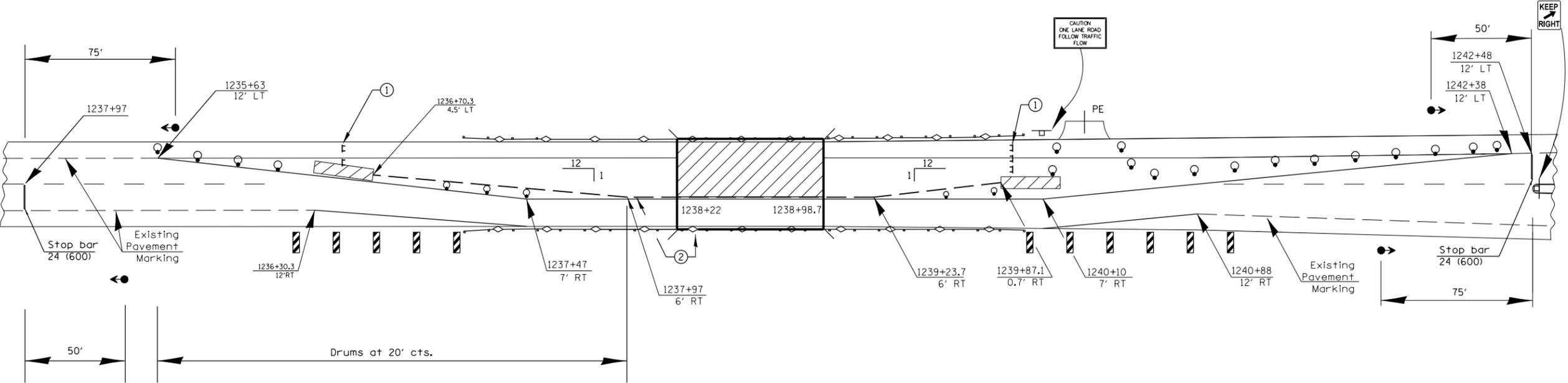
- ① Cones at 20' (6 m) centers for 240' (73 m). Additional cones may be placed at 40' (12 m) centers. When drums or barricades are used, the interval between devices may be doubled.
- ② All dimensions are in inches (millimeters) unless otherwise shown.
- ③ The Contractor shall keep all equipment, material, and vehicles off the pavement and shoulders on the side of the pavement which is open to traffic.

	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PRE-STAGE TRAFFIC CONTROL</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			599	DECK REPAIR 2014-1	ROCK ISLAND	16	6	
	CHECKED -	REVISED -			<b>CONTRACT NO. 64J90</b>					
	DATE -	REVISED -								

# Traffic Control STAGE 1



FOR DETAILS NOT SHOWN, SEE STD. 701321

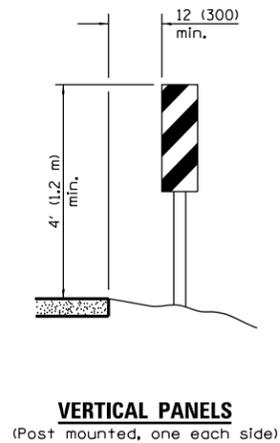
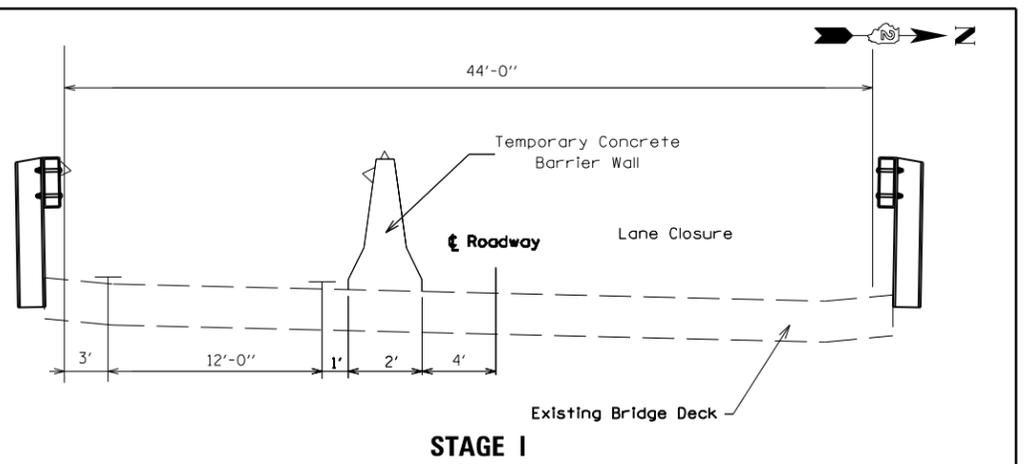


FOR DETAILS NOT SHOWN, SEE STD. 701321

## NOTES:

- SYMBOLS**
- Work area
  - Sign
  - Type III barricade
  - Traffic signal
  - Detector loops
  - Drum with steady burning bi-directional light
  - Temporary concrete barrier
  - Temporary rumble strip (when specified)
  - Double vertical panel (see detail)
  - Crystal, bidirectional barrier wall/guardrail marker
  - Impact attenuator

- ① Type III barricade to be placed when no work is being performed.
  - ② Barrier wall/guardrail markers at 25' (7.6 m) cts. See Standards 704001 & 635011.
- Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.
- Temporary concrete barrier shall be according to Standard 704001.
- Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.
- Remove conflicting pavement marking



Existing guardrail shall remain in place next to traffic for stage I. Install proposed guardrail and shoulders special prior to switching to stage II

## NOTES:

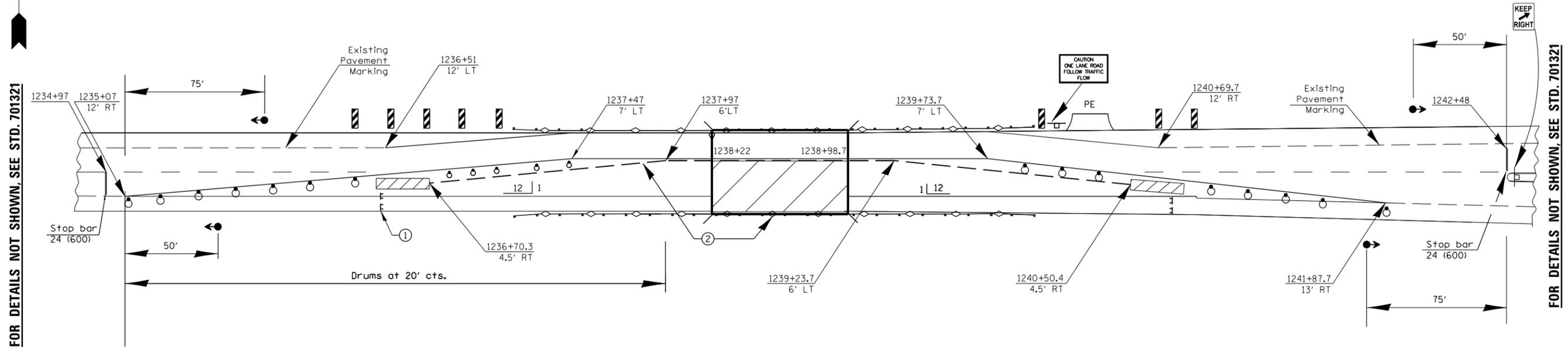
- ① Temporary pavement marking-Line 4" shall be placed throughout the tapers and along of the lines closures. Line is white on both sides.
- ② See Traffic Control Standards 701321 for additional signs, devices and other items.

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DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	7
CONTRACT NO. 64J90				

# Traffic Control STAGE 2



FOR DETAILS NOT SHOWN, SEE STD. 701321

FOR DETAILS NOT SHOWN, SEE STD. 701321

## NOTES:

- SYMBOLS**
- Work area
  - Sign
  - Type III barricade
  - Traffic signal
  - Detector loops
  - Drum with steady burning bi-directional light
  - Temporary concrete barrier
  - Temporary rumble strip (when specified)
  - Double vertical panel (see detail)
  - Crystal, bidirectional barrier wall/guardrail marker
  - Impact attenuator

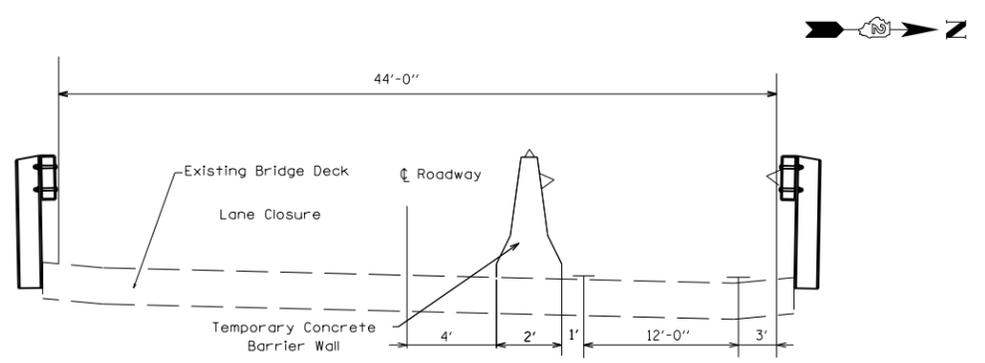
- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 25' (7.6) cts. See Standards 704001 & 635011.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

Remove conflicting pavement marking

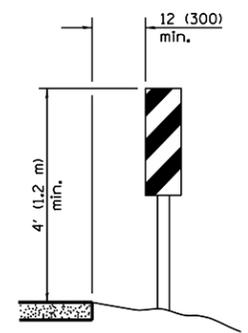


### STAGE II

Install remaining proposed guardrail and shoulders special prior to two-lane two-way traffic

#### NOTES:

- ① Temporary pavement marking-Line 4" shall be placed throughout the tapers and along of the lines closures. Line should be white on both sides.
- ② See Traffic Control Standards 701321 for additional signs, devices and other items.

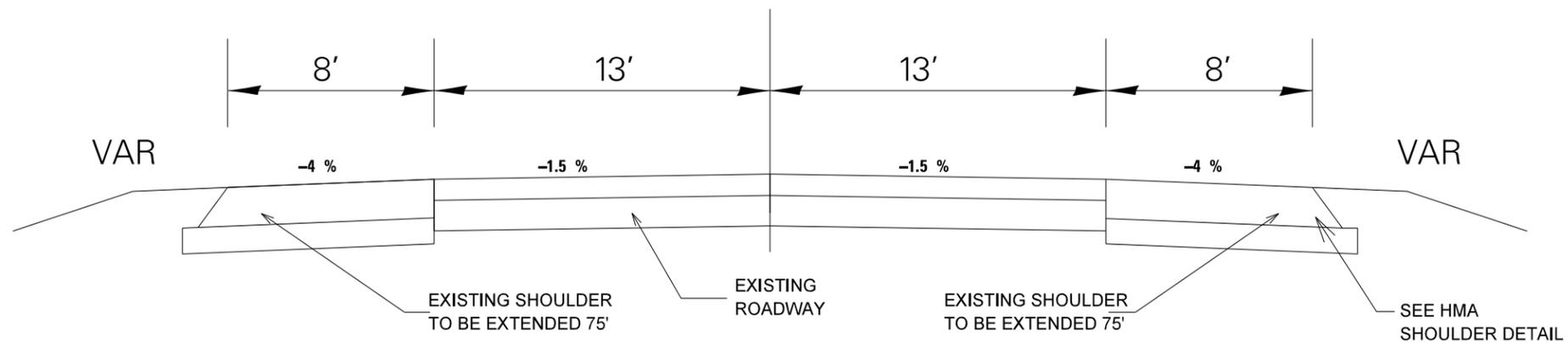


**VERTICAL PANELS**  
(Post mounted, one each side)

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		DESIGNED -	REVISED -	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">F.A.P. RTE.</td> <td style="width: 20%;">SECTION</td> <td style="width: 20%;">COUNTY</td> <td style="width: 20%;">TOTAL SHEETS</td> <td style="width: 20%;">SHEET NO.</td> </tr> <tr> <td>599</td> <td>D2 DECK REPAIR 2014-1</td> <td>ROCK ISLAND</td> <td>16</td> <td>8</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 64J90</td> </tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	8	CONTRACT NO. 64J90				
		F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.												
599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	8															
CONTRACT NO. 64J90																			
DRAWN -	REVISED -																		
CHECKED -	REVISED -																		
DATE -	REVISED -																		

STA. 1236+47 – STA. 1237+22

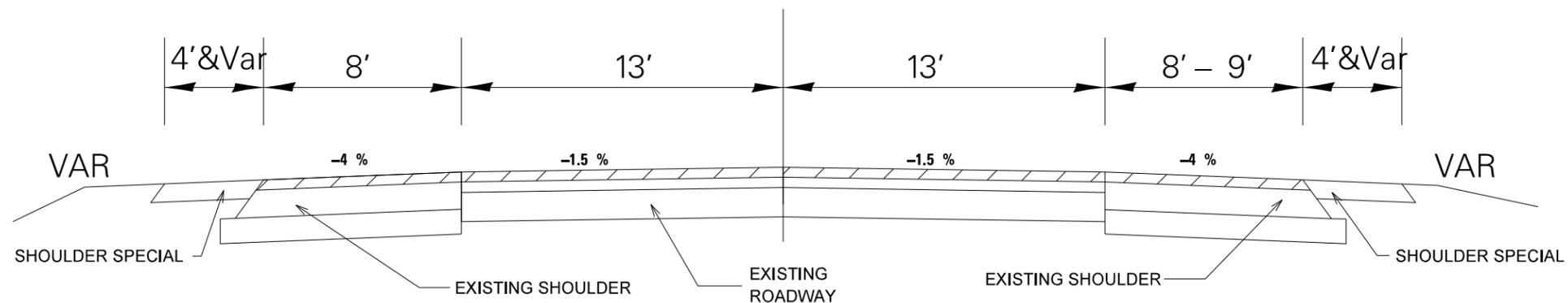
CL IL 92



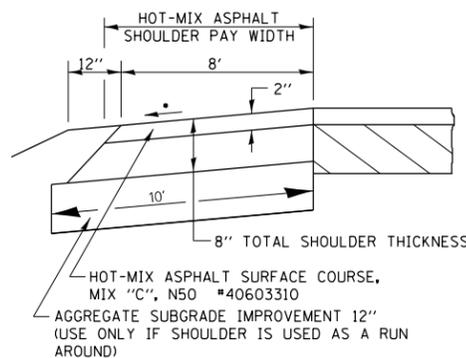
STA. 1237+22 – STA. 1238+22

STA. 1238+98.7 – STA. 1239+98.7

CL IL 92



### HOT-MIX ASPHALT SHOULDER



**GENERAL NOTES**

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS, THE THICKNESS IS SHOWN SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN CUBIC YARDS FOR EARTH EXCAVATION

\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

**NOTES:**

NO DROP OFFS PERMITTED OVER WEEKEND  
 DROP OFF UP TO 24" IS ALLOWED OVER ONE NIGHT  
 THAN MUST BE ELIMINATED THE NEXT DAY

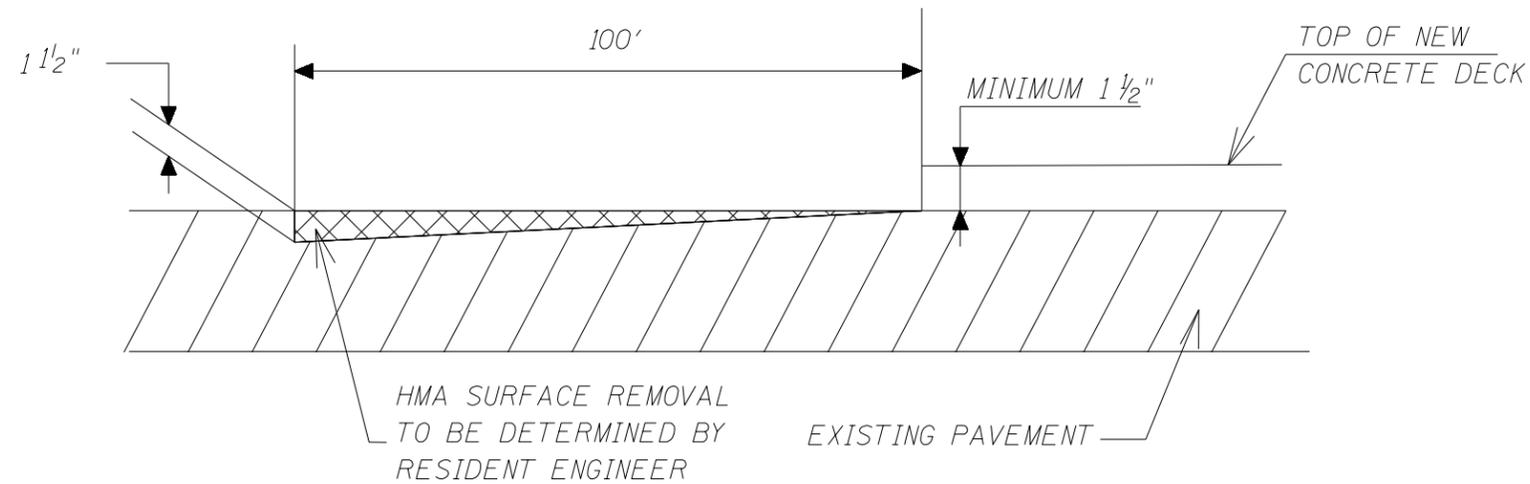
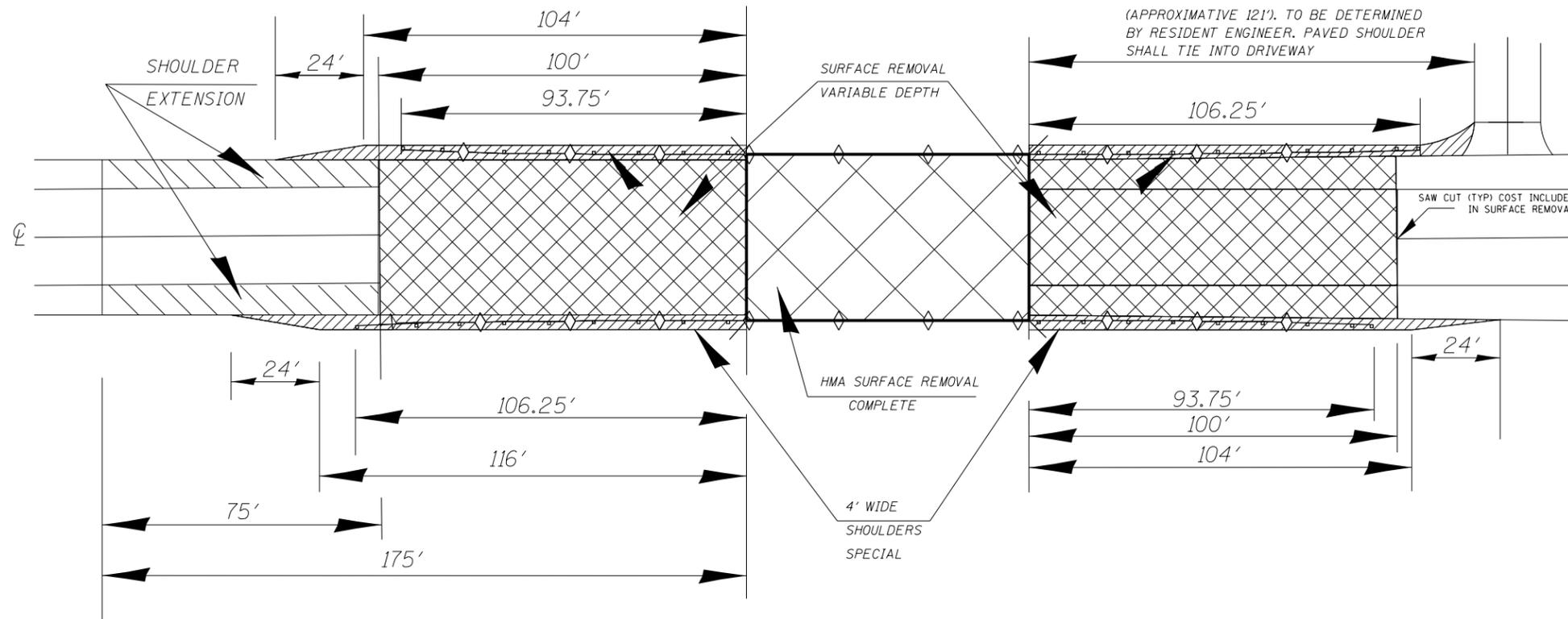
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS-SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	9
CONTRACT NO. 64J90				

PAVEMENT SURFACE REMOVAL AND REPLACEMENT  
SHOULDERS EXTENSION AND WIDENING PLAN

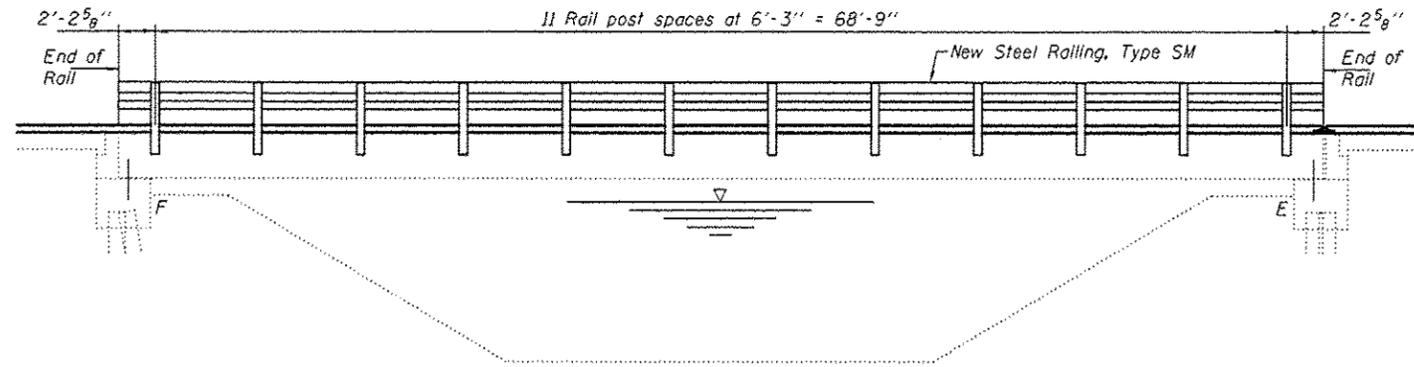


SURFACE REMOVAL  
VAR DEPTH DETAIL

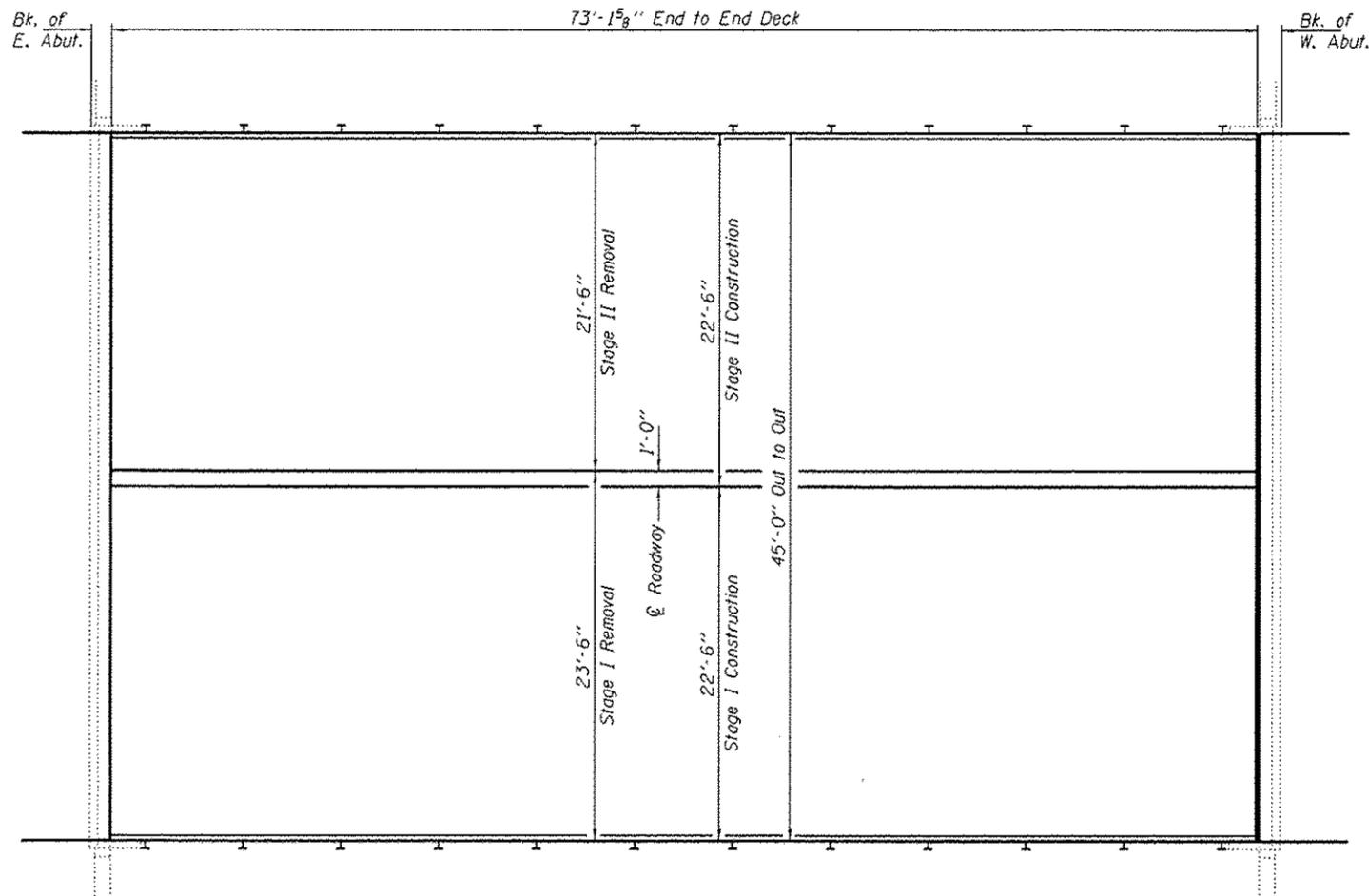
NOTE:

- SHOULDER SPECIAL
- HMA SHOULDER EXTENSION
- MILL & RESURFACE

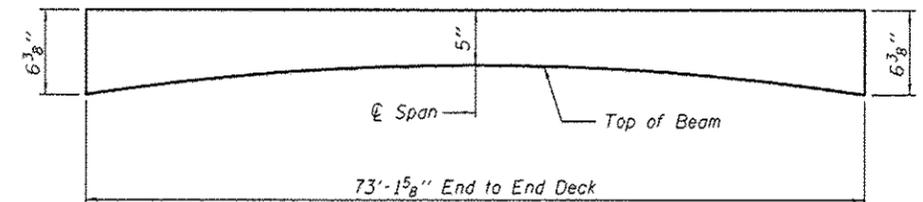
	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL AND RESURFACING PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	10
	CHECKED -	REVISED -							
	DATE -	REVISED -							
									CONTRACT NO. 64J90



**ELEVATION**



**PLAN**



**CONCRETE WEARING SURFACE PROFILE**

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 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.  
 Joint plates and attached bars shall be shop painted with the inorganic zinc rich primer. No field paint required.  
 The minimum thickness of the concrete overlay shall be 5" and varies as required to adjust for the existing profile grade and beam camber.  
 Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.  
 For construction requirements for HMA surface removal, see the Special Provision "HMA Surface Removal Complete".

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Bridge Deck Grooving	Sq. Yd.	345
Reinforcement Bars, Epoxy Coated	Pound	5090
Bar Splicers	Each	80
Steel Railing, Type SM	Foot	146
Steel Railing Removal	Foot	146
Concrete Wearing Surface, 5"	Sq. Yd.	366
Hot Mix Asphalt Surface Removal (Asbestos)	Sq. Yd.	366
Preformed Joint Strip Seal	Foot	45
Concrete Removal	Cu. Yd.	1.9
Concrete Structures	Cu. Yd.	2.6
Keyway Repairs	Foot	250
Bearing Pad Adjustment	Each	16
Dowel Repairs	Each	32

\* Estimated quantities. Actual quantities to be determined by the engineer in the field, after the HMA is removed.

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 5,000$  psi (Concrete Wearing Surface)  
 $f_y = 60,000$  psi (Reinforcement)



EXPIRES 11-30-2014

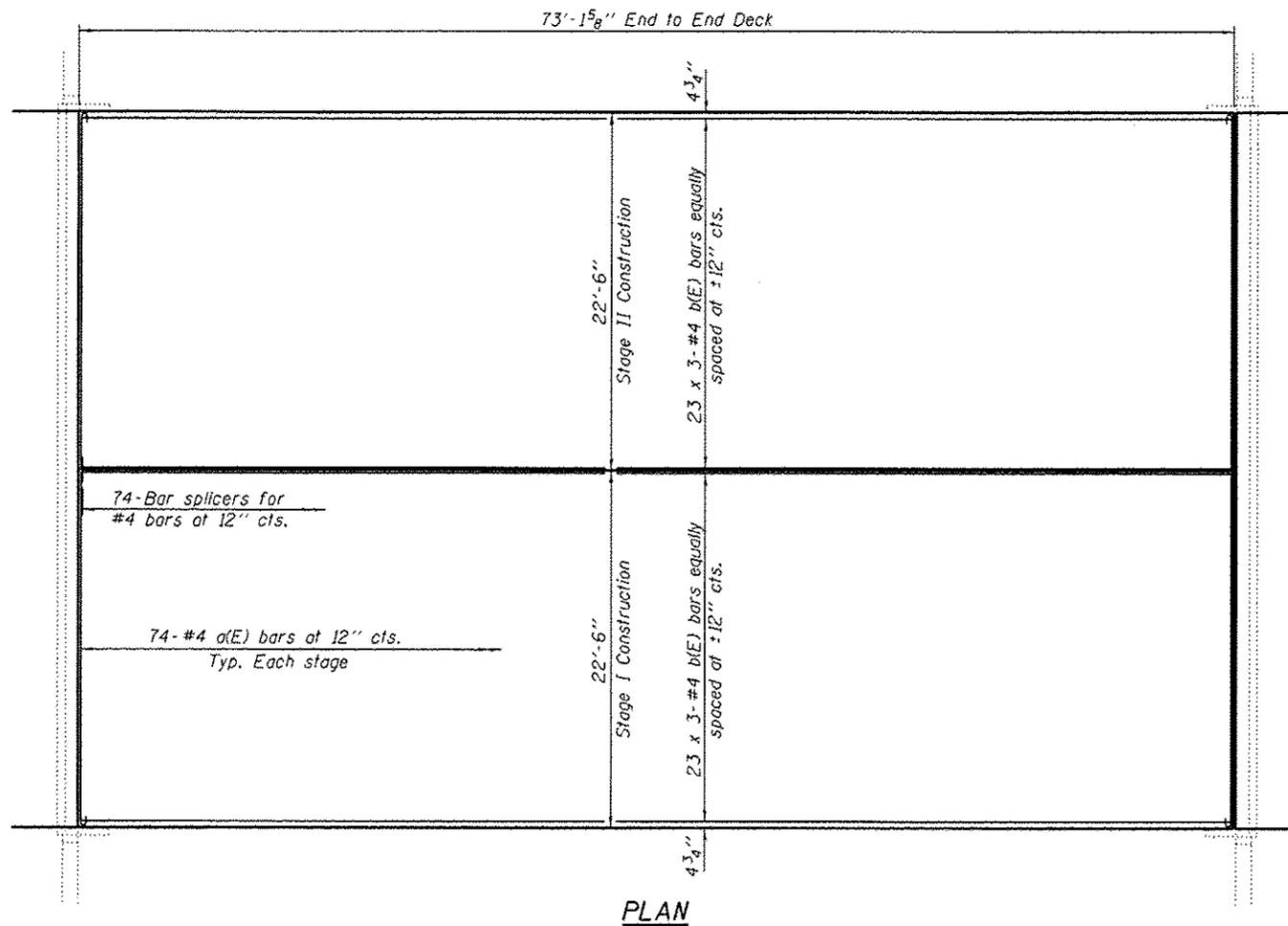
DESIGNED <i>Stephen M Ryan</i>	EXAMINED <i>Timothy A. ...</i>	DATE NOVEMBER 12, 2013
CHECKED <i>Paul Clark</i>	PASSED <i>David Puzey</i>	REVISED
DRAWN <i>Daliva</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED <i>SMR TLL</i>		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

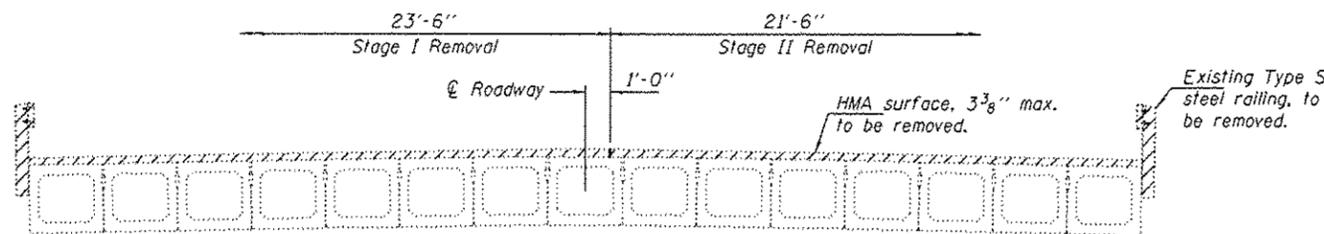
PLAN AND ELEVATION  
 IL. 92 OVER TURKEY HOLLOW CREEK  
 SN 081-0117

SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	D2 DECK REPAIR 2014-1	ROCK ISLAND	16	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J90	

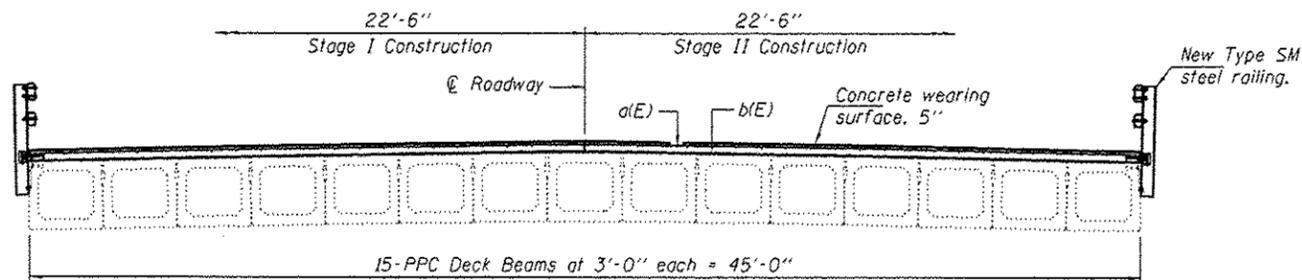


PLAN



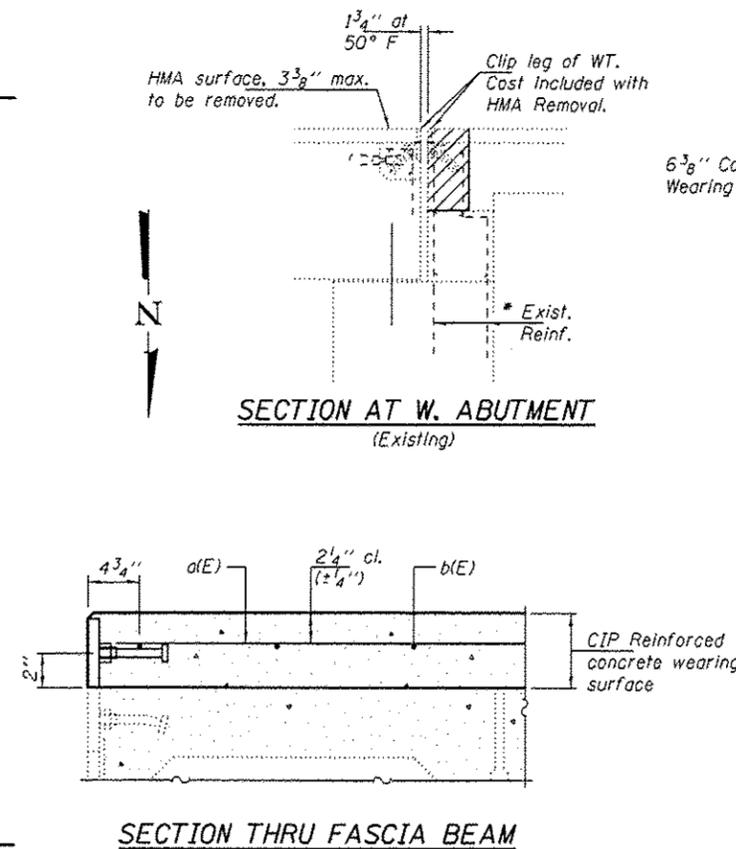
EXISTING CROSS SECTION

(Looking East)  
Hatched areas indicate removal

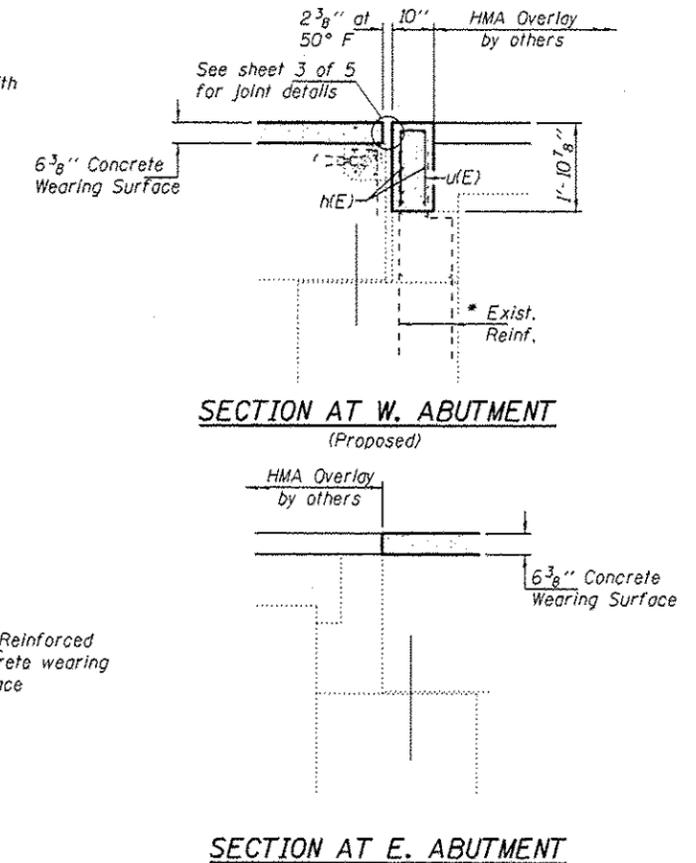


PROPOSED CROSS SECTION

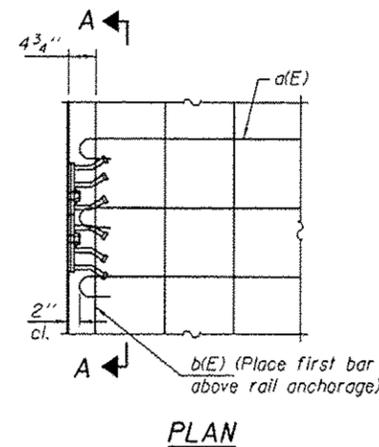
(Looking East)



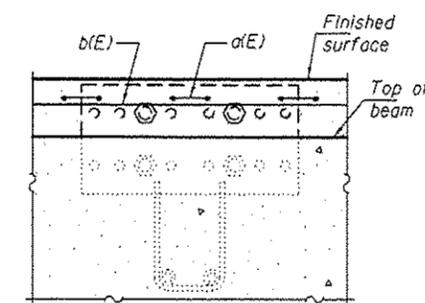
SECTION THRU FASCIA BEAM



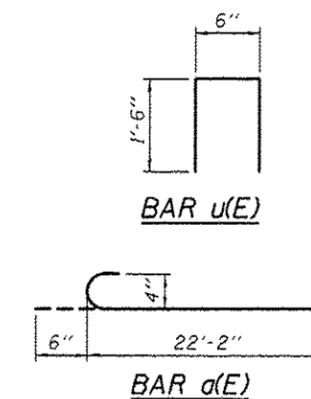
SECTION AT E. ABUTMENT



PLAN



SECTION A-A



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

Notes:  
Hatched areas indicate Concrete Removal.  
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts.

\* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	148	#4	22'-8"	⌒
b(E)	138	#4	26'-0"	—
u(E)	12	#5	22'-2"	—
u(E)	46	#5	3'-6"	⌒
HMA Surface Removal (Asbestos)			Sq. Yd.	366
Concrete Removal			Cu. Yd.	1.9
Concrete Structures			Cu. Yd.	2.6
Bar Splicers			Each	80
Reinforcement Bars, Epoxy Coated			Pound	5090
Concrete Wearing Surface, 5"			Sq. Yd.	366

Bars indicated thus 23 x 3-#4 etc. indicates 23 lines of bars with 3 lengths per line.

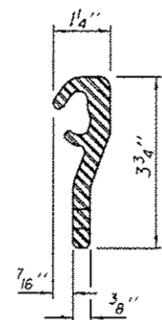
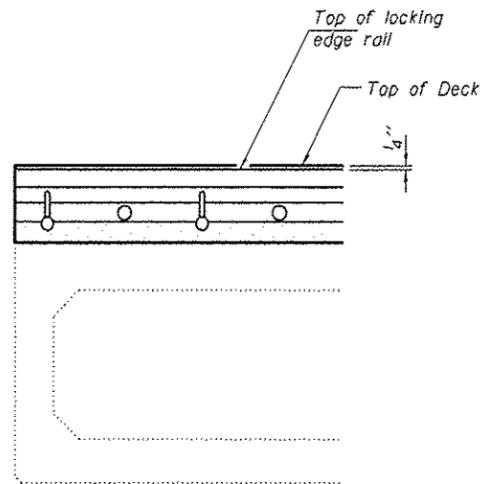
DESIGNED SMR	EXAMINED	DATE NOVEMBER 12, 2013
CHECKED TLC	PASSED	
DRAWN baliva		
CHECKED SMR TLC		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

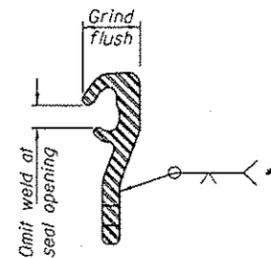
REPAIR DETAILS  
SN 081-0117

SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	02 DECK REPAIR 2014-1	ROCK ISLAND	16	12
CONTRACT NO. 64J90			ILLINOIS FED. AID PROJECT	

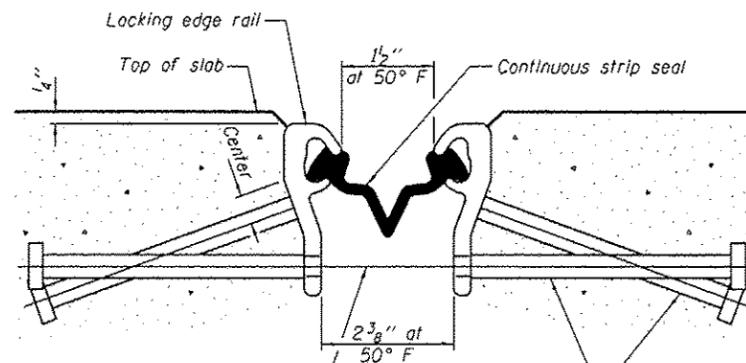


**LOCKING EDGE RAIL**



**LOCKING EDGE RAIL SPLICE**

\* Back gouge not required if complete joint penetration is verified by mock-up.



7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2"  $\phi$  x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

**SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS**

**Notes:**

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3#16", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

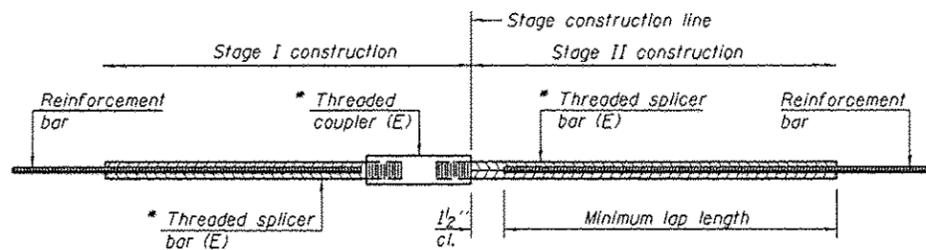
The manufacturer's recommended installation methods shall be followed.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	45

DESIGNED <i>SMR</i>	EXAMINED <i>Timothy A. Andri</i>	DATE <u>NOVEMBER 12, 2013</u>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL SN 081-0117	F.A.P. RTE. 599	SECTION 02 DECK REPAIR 2014-1	COUNTY ROCK ISLAND	TOTAL SHEETS 16	SHEET NO. 13
CHECKED <i>TLC</i>	PASSED <i>ACTING ENGINEER OF BRIDGES AND STRUCTURES</i>	REVISED			SHEET NO. 3 OF 5 SHEETS	ILLINOIS FED. AID PROJECT CONTRACT NO. 64J90			
DRAWN <i>baliva</i>	ACTING ENGINEER OF STRUCTURAL SERVICES	REVISED							
CHECKED <i>SMR TLC</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED							





**STANDARD BAR SPLICER ASSEMBLY**

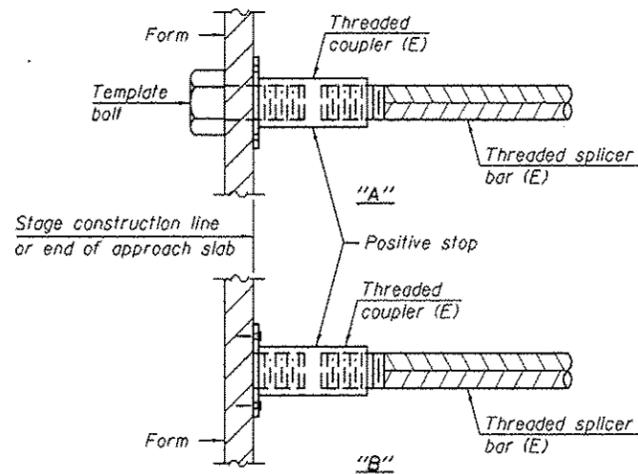
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

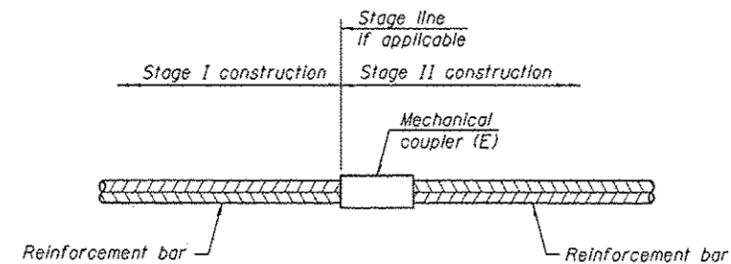
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#4	74	3
Abut. Back Wall	#5	6	3



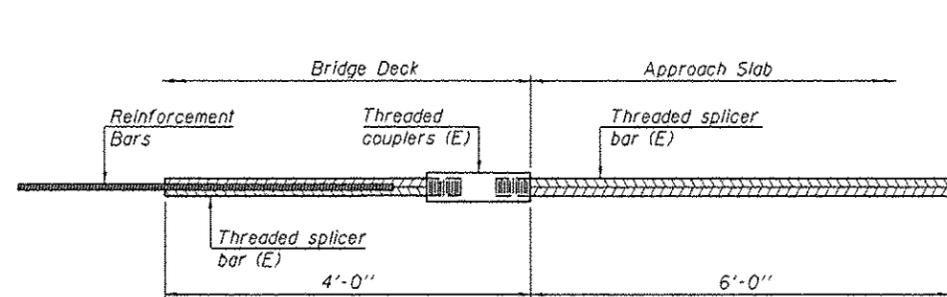
**INSTALLATION AND SETTING METHODS**

"A": Set bar splicer assembly by means of a template bolt.  
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



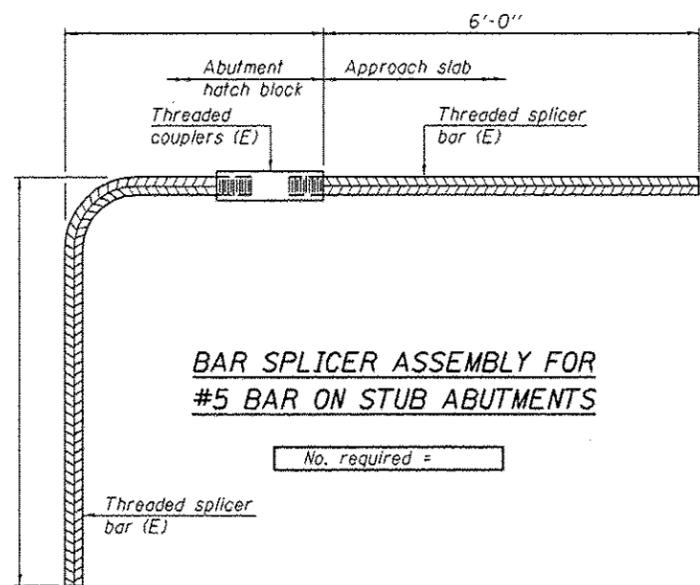
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

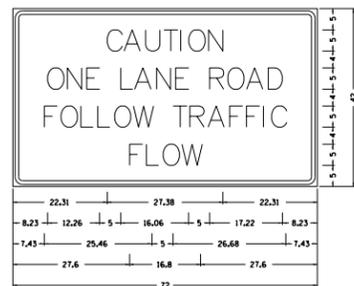
No. required =

**NOTES**

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-27-12

**ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS**



Type AA Fluorescent Orange Sheeting; 2.25" Radius, 0.8" Border, 0.50" Indent, Black on Orange; [CAUTION] D; [ONE LANE ROAD] D; [FOLLOW TRAFFIC] D; [FLOW] D

**Table Of Widths And Spaces**

22.31	C	3.36	A	4.18	0.94	3.36	0.94	3.04	0.94	0.78	1.17	O	3.52	1.17	N	3.36	22.31			
8.23	O	3.51	N	3.36	1.18	E														
5.00	L	3.05	A	4.18	0.94	N	3.36	1.17	E											
5.00	R	3.36	O	3.52	0.94	A	4.18	0.93	D	8.23										
7.43	F	3.04	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W					
5.00	T	3.05	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	L	3.04	0.94	O	3.52	0.93	W	27.60										

**GENERAL NOTES**

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

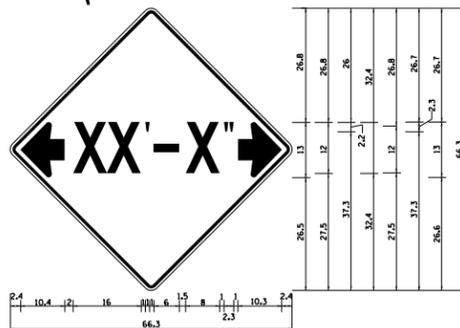
THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 101321.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

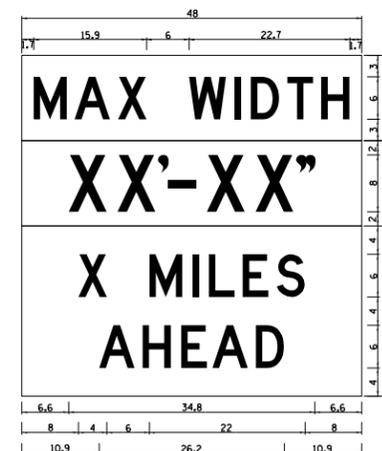
REVISED - 10-14-11

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS 75.2

**INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)**



NOTES  
W12-1103 - Horizontal Clearance Sign  
48.0" across sides, 1.9" Radius,  
0.8" Border, 0.5" Indent, Black on  
Orange Standard Arrow Custom  
10.4" X 8.1" 180° Black 11 Inch  
O Series Lettering Standard Arrow  
Custom 10.4" X 8.1" O



W12-1103 (Width Is 80);  
No border, Black on White;  
[MAX WIDTH] D;

No border, Black on Orange;  
[XX'-XX"] D;

No border, Black on White;  
[X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

**ROUGH GROOVED SURFACE SIGN**

ILLINOIS STANDARD W8-1107  
SIGN PANEL TYPE 1



COLOR: LEGEND AND BORDER - BLACK NON-REFLECTIVE  
BACKGROUND - ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48x48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
48x48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES.

REVISED - 10-14-11

**GENERAL NOTES**

SIGN PANELS AND FACE MATERIALS SHALL BE ACCORDING TO SECTION 720 OF THE STANDARD SPECIFICATIONS. METAL POSTS SHALL BE IN ACCORDANCE WITH STD. 720011.

ALL MOUNTING HARDWARE SHALL BE ALUMINUM, STAINLESS STEEL, ZINC OR CADMIUM PLATED STEEL AND SHALL BE INCLUDED TO THE COST OF THE INSTALLATION.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

ROUGH GROOVED SURFACE SIGN 91.2

**STOP LINE SIGN FOR TEMPORARY SIGNALS**



SIZE: 24 x 24

4 CAPITAL LETTERS - BLACK

1/2 BORDER - BLACK

WHITE REFLECTIVE - TYPE AP  
HIGH INTENSITY PRISMATIC SHEETING

**GENERAL NOTE:**

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-11-11

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4