

CONSTRUCTION CODE

URBAN

S.N. 010-0014 STA. 1518+66.10  
S.N. 010-0015 STA. 1518+84.25  
FAI-74  
100% STATE  
BRIDGE REHAB  
0014

S.N. 010-0016  
S.N. 010-0017  
STA. 1539+94.80  
FAI-74  
100% STATE  
BRIDGE REHAB  
0014

S.N. 010-0167  
STA. 50+00.00  
T.R. 104  
100% STATE  
BRIDGE REHAB  
0014

S.N. 010-0169  
STA. 89+80.58  
T.R. 126  
100% STATE  
BRIDGE REHAB  
0014

CODE NO.	ITEM	UNIT	TOTAL QUANTITY				
40600290	BITUMINOUS MATERIALS TACK COAT	POUND	374.0	329.0	0.0	0.0	45.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	10.0	0.0	0.0	0.0	10.0
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	62.0	62.0	0.0	0.0	0.0
50102400	CONCRETE REMOVAL	CU YD	19.7	19.7	0.0	0.0	0.0
50157300	PROTECTIVE SHIELD	SQ YD	849.0	410.0	0.0	175.0	264.0
50300100	FLOOR DRAINS	EACH	36.0	16.0	0.0	10.0	10.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	31.8	31.8	0.0	0.0	0.0
50300260	BRIDGE DECK GROOVING	SQ YD	1,791.0	1,286.0	0.0	0.0	505.0
50300300	PROTECTIVE COAT	SQ YD	140.0	140.0	0.0	0.0	0.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	18,800.0	18,800.0	0.0	0.0	0.0
50500505	STUD SHEAR CONNECTORS	EACH	224.0	224.0	0.0	0.0	0.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,910.0	4,910.0	0.0	0.0	0.0
50800515	BAR SPLICERS	EACH	64.0	64.0	0.0	0.0	0.0
50900200	STEEL RAILING, TYPE 2399	FOOT	911.0	0.0	0.0	491.0	420.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	180.0	180.0	0.0	0.0	0.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	28.0	28.0	0.0	0.0	0.0
52100520	ANCHOR BOLTS, 1"	EACH	56.0	56.0	0.0	0.0	0.0

18,800.0 18,800.0

\* SPECIALTY ITEM

REVIS<sup>ED</sup> 10-19-16

FILE NAME *	USER NAME * sherranjm	DESIGNED -	REVIS <sup>ED</sup> -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default		CHECKED -	REVIS <sup>ED</sup> -					74	(10-4.10-51)	CHAMPAIGN	74	4			
	PLOT SCALE = 48.0000" / 1"	DATE -	REVIS <sup>ED</sup> -					SCALE:	SHEET 1	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 8/9/2016							CONTRACT NO. 70815							



**PROPOSED WORK**

1. Remove and Replace Stage I H.M.A. Wearing Surface Prior to Stage I Traffic.
2. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface from Bridge Deck.
3. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface from Approach Slabs.
4. Perform Bridge Deck Scarification on Bridge Deck and Approach Slabs.
5. Partial Removal of Deck Ends, Parapets, and Removal of Hatch Block.
6. Removal of Existing Joints.
7. Perform Full-Depth Patching.
8. Replace Existing Bearings with Elastomeric Bearings at Abutments.
9. Place Reinforcement Bars, Locking Edge Rail, and Studs.
10. Pour Deck Ends and Hatch Block.
11. Insert Rubber Strip Seal into Locking Edge Rails.
12. Pour Parapet Ends and Approach Bridge Rail Extensions.
13. Place Latex Concrete Overlay on Bridge Deck and Approach Slabs.
14. Repair Substructure Units-Abutments. Place Traffic Barrier Terminal, Type 6.

**TOTAL BILL OF MATERIALS S.N. 010-0014 & S.N. 010-0015**

ITEM	UNIT	QUANTITY
<b>BITUMINOUS MATERIAL (TACK COAT)</b>	<b>POUND</b>	<b>329.0</b>
<b>H.M.A. SURFACE COURSE MIX "D", N90</b>	<b>TON</b>	<b>62.0</b>
<b>HOT-MIX ASPHALT SURFACE REMOVAL (DECK)</b>	<b>SQ YD</b>	<b>2100.0</b>
<b>CONCRETE REMOVAL</b>	<b>CU YD</b>	<b>19.7</b>
<b>PROTECTIVE SHIELD</b>	<b>SQ YD</b>	<b>410.0</b>
<b>FLOOR DRAINS</b>	<b>EACH</b>	<b>16.0</b>
<b>CONCRETE SUPERSTRUCTURE</b>	<b>CU YD</b>	<b>31.8</b>
<b>BRIDGE DECK GROOVING</b>	<b>SQ YD</b>	<b>1286.0</b>
<b>PROTECTIVE COAT</b>	<b>SQ YD</b>	<b>140.0</b>
<b>FURNISHING AND ERECTING STRUCTURAL STEEL</b>	<b>POUND</b>	<b>18,800.0</b>
<b>STUD SHEAR CONNECTORS</b>	<b>EACH</b>	<b>224.0</b>
<b>REINFORCEMENT BARS, EPOXY COATED</b>	<b>POUND</b>	<b>4910.0</b>
<b>BAR SPLICERS</b>	<b>EACH</b>	<b>64.0</b>
<b>PREFORMED JOINT STRIP SEAL</b>	<b>FOOT</b>	<b>180.0</b>
<b>ELASTOMERIC BEARING ASSEMBLY, TYPE I</b>	<b>EACH</b>	<b>28.0</b>
<b>ANCHOR BOLTS, 1"</b>	<b>EACH</b>	<b>56.0</b>
<b>TEMPORARY CONCRETE BARRIER</b>	<b>FOOT</b>	<b>1050.0</b>
<b>RELOCATE TEMPORARY CONCRETE BARRIER</b>	<b>FOOT</b>	<b>1050.0</b>
<b>IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3</b>	<b>EACH</b>	<b>2.0</b>
<b>IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3</b>	<b>EACH</b>	<b>2.0</b>
<b>PAINT PAVEMENT MARKING - LINE 4 "</b>	<b>FOOT</b>	<b>9120.0</b>
<b>WIDTH RESTRICTION SIGNING</b>	<b>L SUM</b>	<b>1.0</b>
<b>JACK AND REMOVE EXISTING BEARINGS</b>	<b>EACH</b>	<b>28.0</b>
<b>BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES</b>	<b>SQ YD</b>	<b>1279.0</b>
<b>BRIDGE DECK SCARIFICATION 1/4 INCHES</b>	<b>SQ YD</b>	<b>1302.0</b>
<b>STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)</b>	<b>SQ FT</b>	<b>138.0</b>
<b>DECK SLAB REPAIR (FULL DEPTH, TYPE I)</b>	<b>SQ YD</b>	<b>10.8</b>
<b>DECK SLAB REPAIR (FULL DEPTH, TYPE II)</b>	<b>SQ YD</b>	<b>62.3</b>
<b>POLYMER CONCRETE</b>	<b>CU FT</b>	<b>6.6</b>
<b>PLUG EXISTING DECK DRAINS</b>	<b>EACH</b>	<b>16.0</b>
<b>TEMPORARY SHORING AND CRIBBING</b>	<b>EACH</b>	<b>4.0</b>
<b>STRUCTURAL STEEL REMOVAL</b>	<b>POUND</b>	<b>7,120.0</b>

**GENERAL NOTES**

The deck ends and hatch blocks shall have its final surface tined according to Article 420.09 (e) (1) of the Standard Specifications. Cost to be included with concrete superstructures.

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 work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

All structural steel shall conform to AASHTO Classification M-270 Grade 36, unless otherwise noted. 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. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

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.

Joint openings shall be adjusted according to article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

If the analysis submitted to the contractor for jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hard wood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

S.N. 010-0014 & 0015 have been determined, through testing, not to involve asbestos in a bituminous bridge deck wearing surface or waterproofing membrane. As certified with BBS Form 2536, January 3, 2003.

Fibers are included in Bridge Deck Latex Concrete overlays.

**REVIS**ED SHEET 10-19-10

FILE NAME *	USER NAME * shoran_jm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
path \\IL084EB10\INTEG\11\notes\gov\PI\007\00	users\1007\0\files\Districts\Projects\007\0\DRAWING\Data\Structures\0572815-sht-Repal	CHECKED -	REVISED -		<b>S.N. 010-0014 (WB) &amp; S.N. 010-0015 (EB)</b>		74	(10-4,10-5)I	CHAMPAIGN	74	8
Default	PLOT SCALE = 42,0000 ' / in.	DATE -	REVISED -		SCALE:	SHEET 2 OF 33 SHEETS	STA.	TO STA.	CONTRACT NO. 70B15		

(ILLINOIS) FED. AID PROJECT