

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	066
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

**GENERAL NOTES**

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in.  $\phi$ , holes 15/16 in.  $\phi$ , unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

- 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.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- The Organic Zinc Rich Primer/ Epoxy/ Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
- Existing structural steel shall only be cleaned and painted as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

**INDEX OF SHEETS**

- S-001 GENERAL PLAN AND ELEVATION
- S-002 GENERAL NOTES, INDEX OF SHEETS; AND BILL OF MATERIAL
- S-003 DECK ELEVATION PLAN
- S-004 TOP OF DECK ELEVATIONS I
- S-005 TOP OF DECK ELEVATIONS II
- S-006 DECK PLAN
- S-007 SUPERSTRUCTURE DETAILS 1
- S-008 SUPERSTRUCTURE DETAILS 2
- S-009 PREFORMED JOINT STRIP SEAL
- S-010 DRAINAGE SCUPPER, DS-12
- S-011 BRIDGE FENCE RAILING; PARAPET MOUNTED 1
- S-012 BRIDGE FENCE RAILING; PARAPET MOUNTED 2
- S-013 STEEL FRAMING PLAN
- S-014 STRUCTURAL STEEL DETAILS
- S-015 SIGN STRUCTURE DETAILS
- S-016 WEST ABUTMENT
- S-017 WEST ABUTMENT; DETAILS AND BILL OF MATERIAL
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- S-021 EAST ABUTMENT; DETAILS
- S-022 EAST ABUTMENT; DETAILS AND BILL OF MATERIAL
- S-023 BRIDGE DRAINAGE SYSTEM DETAILS
- S-024 BAR SPLICER ASSEMBLY DETAILS

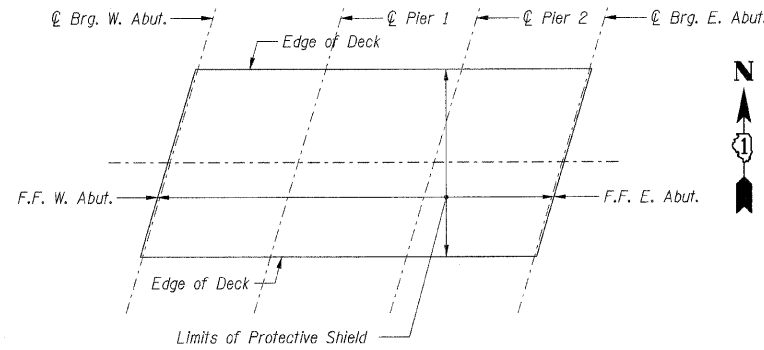
**TOTAL BILL OF MATERIAL**

Item	Unit	Sub	Super	Total
POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	180		180
CONCRETE REMOVAL	CU YD	41.3		41.3
REMOVAL OF EXISTING CONCRETE DECK	L SUM		1	1
PROTECTIVE SHIELD	SQ YD		1,610	1,610
STRUCTURE EXCAVATION	CU YD	180		180
CONCRETE STRUCTURES	CU YD	48.4		48.4
CONCRETE SUPERSTRUCTURE	CU YD		525.9	525.9
BRIDGE DECK GROOVING	SQ YD		1,241	1,241
PROTECTIVE COAT	SQ YD		1,730	1,730
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND		11,130	11,130
JACK AND REMOVE EXISTING BEARINGS	EACH		42	42
REINFORCEMENT BARS, EPOXY COATED	POUND	6,860	100,530	107,390
BAR SPLICERS	EACH	138		138
BRIDGE FENCE RAILING	FOOT		517	517
NAME PLATES	EACH		2	2
PREFORMED JOINT STRIP SEAL	FOOT		340	340
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH		42	42
ANCHOR BOLTS, 1"	EACH		168	168
CONCRETE SEALER	SQ FT	876		876
EPOXY CRACK INJECTION	FOOT	75		75
DRAINAGE SCUPPERS, DS-12	EACH		6	6
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2,223		2,223
DRAINAGE SYSTEM	L SUM		1	1
TEMPORARY SHORING AND CRIBBING	L SUM		1	1

STATION 556+99.89  
 RE-BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.I. RT. 57 SEC 2021.1B-R  
 LOADING HS20 & ALT.  
 STR. NO. 016-0989

**NAME PLATE**

See Std. 515001  
 (See sheets S-016 and S-020  
 for Name Plate locations.)



**LIMITS OF PROTECTIVE SHIELD**

SHT. S-002

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY

GENERAL NOTES, INDEX OF SHEETS  
 AND BILL OF MATERIAL

DATE: 01/16/09  
 DRAWN BY: TMH  
 CHECKED BY: JLR

**TENG**

TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 225 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE 312.618.0000

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 Plot: Table: N/A