

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
INDEX OF DRAWINGS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F. A. I. 80/94	•	COOK	870	516	91 SHEETS
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-		CONTRACT NO. 62108

GENERAL NOTES

THE FABRICATION OF THE STRUCTURAL STEEL AND BEARINGS FOR THIS BRIDGE WAS INCLUDED IN CONTRACT NO. 62898. ALL WORK SHOWN THAT IS RELATED TO THE FABRICATION IS FOR INFORMATION ONLY AND IS NOT INCLUDED IN THIS CONTRACT.

- All dimensions are in millimeters (mm) except as noted.
- Fasteners shall be high strength bolts. Bolts M 22, open holes 24 mm  $\phi$ , unless otherwise noted.
- Calculated mass of structural steel:  
For SN 016-2800 (Units 1&2): 999,240 kg for M 270M Grade 345 and 5,660 kg for M 270M Grade 250.  
For SN 016-2845 (Unit 3): 140,620 kg for M 270M Grade 345 and 690 kg for M 270M Grade 250.
- The same organic zinc rich primer / epoxy / urethane Paint System used for the fabrication contract shall be used for painting of structural steel left partially or fully unpainted in the fabrication contract due to construction requirements. This includes, but is not necessarily limited to, masked off connection surfaces and field installed fasteners. Any structural steel that was painted under the fabrication contract whose paint system may have been damaged during the fabrication contract shall be spot cleaned and touched up in the field. For SN 016-2800 (Units 1 & 2), the color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1; and the color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. For SN 016-2845 (Unit 3), the color of the final finish coat for all interior and exterior steel surfaces shall be Interstate Green Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures." The cost is included for payment under Erecting Structural Steel.
- Field welding of construction accessories will not be permitted to the beams or girders.
- Anchor bolts shall be set before bolting cross frames / diaphragms over supports.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs, the cross frames and connection plates, diaphragms and connection plates, and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- The Contractor shall drive one steel test pile in a permanent location at the South Abutment, Abutment F, Pier 1, and Pier F1; and two steel test piles in a permanent location at the North Abutment, Pier 2, Pier 3 and Pier 4 as directed by the Engineer before ordering the remainder of piles.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two 3mm adjusting shims shall be provided for each bearing and placed as detailed.
- Bridge Seat Sealer shall be applied to the seat area of the Abutments and Pier 2, including future widening.
- All construction joints shall be bonded.
- When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
  - At least 72 hours shall have elapsed from the end of the previous pour.
  - The concrete strength shall have attained a minimum flexural strength of 4.5 MPa or a minimum compressive strength of 24 MPa.
- The stability of the partially erected structural steel is the Contractor's responsibility during all phases of construction. The Contractor shall submit for review and approval by the Engineer an erection plan with calculations for the erection of the structural steel. The plan must address as a minimum subassembly of the girders, erecting of the girders, placement of cross frames/diaphragms, bolting of cross frames/diaphragms, and removal of temporary supports. See Special Provisions for "Erecting Structural Steel". The cost of this work is included in the pay item "Erecting Structural Steel" or "Erecting Structural Steel (Girder Spans)".

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu M	266		266
Structure Excavation	Cu M	1,061		1,061
Cofferdam (Pier 4)	Each	1		1
Cofferdam Excavation	Cu M	470		470
Seal Coat Concrete	Cu M	133		133
Concrete Structures	Cu M	1,041.0		1,041.0
Concrete Superstructure	Cu M	1,078.4		1,078.4
Bridge Deck Grooving	Sq M	4,287		4,287
Protective Coat	Sq M	4,943		4,943
Furnishing & Erecting Structural Steel	KG		874	874
Erecting Structural Steel	L Sum	0.55		0.55
Erecting Floating Bearings, Guided Expansion 2000 KN	Each		10	10
Erecting Floating Bearings, Fixed 2250 KN	Each		12	12
Erecting Elastomeric Bearing Assembly, Type I	Each		24	24
Erecting Elastomeric Bearing Assembly, Type III	Each		9	9
Stud Shear Connectors	Each	11,531		11,531
Reinforcement Bars, Epoxy Coated	KG	195,380		247,310
Stone Riprap, Class A4	Sq M		802	802
Filter Fabric	Sq M		1,040	1,040
Furnishing Steel Piles HP 360x108	M		3,100.2	3,100.2
Driving Steel Piles	M		3,100.2	3,100.2
Test Pile Steel HP 360x108	Each		10	10
Name Plates	Each		1	1
Drainage Scuppers, DS-11	Each		9	9
Drainage Scuppers, DS-33	Each		2	2
Floor Drain	Each		2	2
Strip Seal Expansion Joint Assembly	M	15.3		15.3
Neoprene Expansion Joint, 100 mm	M	36.9		36.9
Bridge Seat Sealer	Sq M		80	80
Bar Splicers	Each		120	120
Controlled Low-Strength Material	Cu M		30	30
Structure Excavation, Common	Cu M		154	154
Porous Granular Backfill	Cu M		46	46
Structural Subdrain (Filter Fabric) (6")	M		21	21
High Performance Concrete for Bridges & Drainage Structures (Class DK - HPC)	Cu M	126.4		126.4
Concrete for Bridges & Drainage Structures (Class SD)	Cu M	32.9		32.9
Concrete for Bridges & Drainage Structures (Class SP)	Cu M		89.9	89.9
Bridge Deck Grooving	Sq M	494		494
Furnishing & Erecting Structural Steel (Miscellaneous)	KG		111	111
Erecting Structural Steel (Girder Spans)	L Sum	1		1
Stud-Type Shear Connectors	Each	6,093		6,093
Reinforcing Steel, Epoxy Coated	KG	21,470	8,330	29,800
Furnishing Steel Piles	M		425	425
Driving Steel Piles	Each		28	28
Test Piles	M		31	31
Scupper	Each	2		2
Erecting Elastomeric Bearing, Type I (800 in3x1000 in3)	Each		12	12
Geocomposite Wall Drain	Sq M		20	20
Bridge Expansion Joint Closure Preformed Joint Seal 4	M	10.7		10.7
Bridge Expansion Joint Closure Neoprene Seal and Anchor Blocks 4	M	10.5		10.5
Riprap, Hand-Laid	Sq M		148	148
Apply Concrete Sealant	Sq M	664	12	676

Bill of Material Note:

IDOT pay item - Unit 1, Unit 2, Pier 2, and Unit 2 Joint at Pier 2.  
ISTHA pay item - Unit 3 and Unit 3 Joint at Pier 2

DESIGNED	PCA
CHECKED	MEA
DRAWN	LK
CHECKED	MEA

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-94 EAST BOUND / IL 394 SOUTH BOUND  
GENERAL NOTES & QUANTITIES  
SB IL ROUTE 394 / RAMP F OVER THORN CREEK  
F.A.P. 332 SECTION (0203.1 & 0312-708N) R-3  
COOK COUNTY  
STA. 440+704.350 STRUCTURE NO. 016-2800/2845  
DATE JUL 18, 2005  
SCALE ---  
**HNTB**