

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F. A. I. 80/94	*	COOK	90	59	21 SHEETS
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT-			
* 2004-133F		CONTRACT NO. 62898			

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Furnishing Structural Steel	L Sum	0.28	---	0.28
Furnishing Floating Bearings, Guided Expansion 750 kN	Each	---	12	12
Furnishing Floating Bearings, Guided Expansion 1250 kN	Each	---	2	2
Furnishing Floating Bearings, Guided Expansion 1500 kN	Each	---	12	12
Furnishing Floating Bearings, Guided Expansion 8000 kN	Each	---	1	1
Furnishing Floating Bearings, Fixed 1500 kN	Each	---	12	12
Furnishing Modular Expansion Joint 160 mm	Mefer	14.7	---	14.7
Storage of Structural Steel (a)	Unit	912	---	912
Storage of Floating Bearings (b)	Cal Da	---	15	15
Storage of Modular Expansion Joints (c)	Cal Da	45	---	45

- (a) For Storage of Structural Steel, one Unit shall be equal to 5 metric tons. The quantity was calculated based on the assumption that 25% of the steel mass is stored for 30 calendar days.
- (b) 15 Calendar Days was estimated for storage of bearings to establish unit bid price.
- (c) 45 Calendar Days was estimated for Storage of Modular Expansion Joint to establish unit bid price.

GENERAL NOTES

THESE PLANS ARE FOR THE FABRICATION OF THE STRUCTURAL STEEL, BEARINGS AND MODULAR EXPANSION JOINT ALL WORK SHOWN THAT IS NOT RELATED TO THE FABRICATION IS FOR INFORMATION ONLY, IS NOT INCLUDED IN THIS CONTRACT, AND IS IDENTIFIED AS "NOT IN CONTRACT".

1. All dimensions are in millimeters (mm) except as noted.
2. Fasteners shall be high strength bolts. Bolts M 22, open holes 24 mm ϕ , unless otherwise noted.
3. Calculated mass of structural steel = 605,650 kg for M 270M Grade 345 and 2,440 kg for M 270M Grade 250.
4. 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 interior steel surfaces shall be gray, Munsell No. 5B 7/1. 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. See Special Provision for "Cleaning and Painting New Metal Structures."
- * 5. Field welding of construction accessories will not be permitted to the beams or girders.
- * 6. Anchor bolts shall be set before bolting diaphragms over supports.
7. 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 diaphragms and connection plates, and all splice plate material except fill plates.
- * 8. Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
- * 9. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
10. 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.
- * 11. Bridge Seat Sealer shall be applied to the seat area of the West and East Abutments.
- * 12. 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:
 1. At least 72 hours shall have elapsed from the end of the previous pour.
 2. The concrete strength shall have attained a minimum flexural strength of 4.5 MPa or a minimum compressive strength of 24 MPa.
- * 13. All construction joints shall be bonded.
- * 14. The existing bearing structural steel coating may contain lead based paint. The Contractor should take appropriate precautions to deal with the presence of lead on this project. No additional compensation will be made to properly dispose of items containing lead.

* THIS WORK IS NOT INCLUDED IN THIS FABRICATION CONTRACT AND IS PROVIDED FOR INFORMATION ONLY.

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DESIGNED	PCA
CHECKED	JJK
DRAWN	LK
CHECKED	PCA

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-94 EAST BOUND / IL 394 SOUTH BOUND
GENERAL NOTES, INDEX & QUANTITIES
 EB I-94 OVER THORN CREEK
 F.A.I. 94 SECTION 2004-133F
 COOK COUNTY
 STA. 20+509.000 STRUCTURE NO. 016-2807
 DATE 05/16/05
 SCALE ---

HNTB