

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F. A. I. 80/94	*	COOK	90	17	42 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-			
			2004-133F	CONTRACT NO. 62858	

GENERAL NOTES

THESE PLANS ARE FOR THE FABRICATION OF THE STRUCTURAL STEEL AND BEARINGS. 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".

- All dimensions are in millimeters (mm) except as noted.
- Fasteners shall be high strength bolts. Bolts M 22, open holes 24 mm ϕ , 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 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. 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."
- Field welding of construction accessories will not be permitted to the beams or girders.
- Anchor bolts shall be set before bolting cross frames and 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 TIII 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 1F; 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 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.

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

DESIGNED	PCA
CHECKED	JJK
DRAWN	LK
CHECKED	JJK

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TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
IDOT	Furnishing Structural Steel	L Sum	0.47	---	0.47
	Furnishing Floating Bearings, Guided Expansion 2000 KN	Each	---	10	10
	Furnishing Floating Bearings, Fixed 2250 KN	Each	---	12	12
	Furnishing Elastomeric Bearing Assembly, Type I	Each	---	24	24
	Furnishing Elastomeric Bearing Assembly, Type III	Each	---	9	9
	Storage of Elastomeric Bearing Assemblies (a)	Cal Da	---	15	15
ISTHA	Storage of Floating Bearings (a)	Cal Da	---	15	15
	Storage of Structural Steel (a)	Unit	1718	---	1718
	Furnishing Structural Steel (Girder Spans)	L Sum	1	---	1
	Furnishing Elastomeric Bearing, Type I (800 in ³ <V<1000 in ³)	Each	---	12	12

Note: IDOT pay items are for Units 1 and 2. The ISTHA pay items are for Unit 3.

(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.

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 2004-133F
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800/2845

DATE 05/16/05
SCALE ---

HNTB

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