

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 91 SHEETS
F. A. I. 80/94	0203.1B	COOK	200	63	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-			
CONTRACT NO. 62854					

GENERAL NOTES

THE FABRICATION OF THE STRUCTURAL STEEL, BEARINGS AND MODULAR EXPANSION JOINTS FOR THIS BRIDGE WAS INCLUDED IN CONTRACT NO. 62744. ALL WORK SHOWN THAT IS RELATED TO THE FABRICATION IS FOR INFORMATION ONLY AND IS NOT INCLUDED IN THIS CONTRACT.

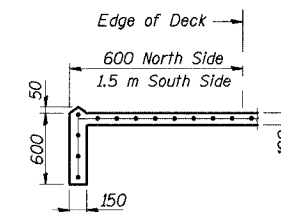
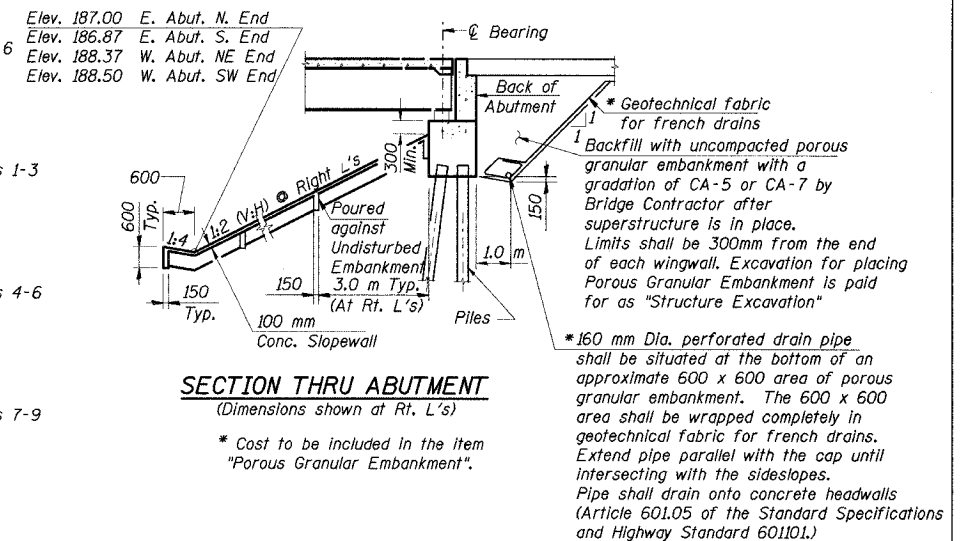
- All dimensions are in millimeters (mm) except as noted.
- Fasteners shall be high strength bolts (AASHTO M164M, Type 3). Bolts M22, open holes 24 mm ϕ , unless otherwise noted.
- Calculated mass of structural steel for the fabrication contract = 2,157,500 kg for M 270M Grade 345 and is provided for information only.
- 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 necessary 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. 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."
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 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 & 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.
- Slope walls shall be reinforced with welded wire fabric, 152 x 152 - MW25.8 x MW25.8 with a mass of 2.91 kg/m².
- 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 East and West Abutments and one at each Pier 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.
- Bridge Seat Sealer shall be applied to the seat area of the East and West Abutments and at Piers 3 and 6.
- 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.
- All construction joints shall be bonded.
- Before starting work, the Contractor shall submit an erection plan of the steel girders and cross frames (including the proposed method to keep the girders vertical) and the maintenance of traffic plan for erecting the girders to the Engineer for approval prior to start of work according to Art. 505.08(e) of the Standard Specifications. The maintenance of traffic plan shall take into account staging positions, false work locations, sequence of girder erection, and provisions for stability of girders and bearings during erection.
- The Stability of the partially erected curved Steel Components is the Contractor's responsibility during all Phases of Construction. Temporary Shoring Towers or other means of temporary support may be required during erection at locations determined by the Steel Erector. The cost is included in the pay item "Erecting Structural Steel".
- All steel girders are designed for final conditions. It is Contractor's responsibility to ensure steel girders are not overstressed during construction and that adequate horizontal and vertical clearance to traffic is maintained.
- The Contractor shall submit for approval a detailed steel erection procedure/plan. The Contractor shall retain the services of an Illinois Licensed Structural Engineer who shall review and sign and seal the procedure /plan. The plan shall include an evaluation of the stability of the girders during erection. The cost is included in the pay item "Erecting Structural Steel".
- The Contractor is alerted that the camber and dead load deflection values shown within these drawings were developed based on the deck pouring sequence shown on Sheet 21, 27, & 33 of 91 sheets. Any deviation from this pouring sequence shall require the contractor to retain the services of an Illinois Licensed Structural Engineer to analyze the structure for the revised pouring sequence. Details and calculations with the required signature and seal shall be submitted to the Engineer for review and approval. Cost Included in the pay item "Erecting Structural Steel".

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	CU M	--	151	151
Structure Excavation	CU M	--	1472.4	1472.4
Concrete Structures	CU M	--	1148.3	1148.3
Concrete Superstructure	CU M	1582.0	3.5	1585.5
Bridge Deck Grooving	SQ M	5036	--	5036
Protective Coat	SQ M	6425.5	33.9	6459.4
Erecting Structural Steel	L SUM	1	--	1
Stud Shear Connectors	EACH	11,438	--	11,438
Reinforcement Bars, Epoxy Coated	KG	223,460	142,480	365,940
Slopewall 100 mm	SQ M	--	324	324
Furnishing Steel Piles HP 310x79	M	--	990.0	990.0
Furnishing Steel Piles HP 360x108	M	--	3596.2	3596.2
Driving Steel Piles	M	--	4586.2	4586.2
Test Pile Steel HP310x79	EACH	--	2	2
Test Pile Steel HP360x108	EACH	--	8	8
Temporary Sheet Piling	SQ M	--	43.2	43.2
Name Plates	EACH	1	--	1
Drainage Scuppers, DS-11	EACH	5	--	5
Erecting Modular Expansion Joint Swivel 240 mm	M	19.4	--	19.4
Erecting Modular Expansion Joint 160 mm	M	9.7	--	9.7
Neoprene Expansion Joint, 50 mm	M	9.5	--	9.5
Erecting Floating Bearings, Guided Expansion 750 kN	EACH	--	18	18
Erecting Floating Bearings, Guided Expansion 1000 kN	EACH	--	6	6
Erecting Floating Bearings, Guided Expansion 2250 kN	EACH	--	18	18
Erecting Floating Bearings, Guided Expansion 1250 kN	EACH	--	12	12
Erecting Floating Bearings, Fixed 2250 kN	EACH	--	6	6
Erecting Floating Bearings, Fixed 2500 kN	EACH	--	12	12
Bridge Seat Sealer	SQ M	--	57.9	57.9
Bar Splicers	EACH	--	62	62
Drainage System	L SUM	1	--	1
Furnishing and Erecting Structural Steel	kg	1170	--	1170



STATION 120+796.063
BUILT 200_ BY
STATE OF ILLINOIS
F.A.I. RT. 94, SEC. (0203.1 & 0312-708W)
LOADING MS18
STR. NO. 016-2804

NAME PLATE
See Std. 515001

DESIGNED	GPM
CHECKED	PCA
DRAWN	LK
CHECKED	PCA/GPM

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94/IL 394 SOUTH BOUND

GENERAL NOTES, QUANTITIES & INDEX
WB I-80/94 TO SB IL 394 - RAMP G
FAI 80/94 - FAP 332 SECTION 0203.1B
COOK COUNTY
STA. 120+796.063 STRUCTURE NO. 016-2804
DATE 3/23/05
SCALE ----

HNTB

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