

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 337	(SR-D)	LAKE	800	584
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
37 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

- Fasteners shall be high strength bolts M22 ϕ in open holes 24 mm ϕ , unless otherwise noted.
- Calculated mass of Structural Steel = 176,624 kg. AASHTO M 270M Grade 345
= 26,566 kg. AASHTO M 270M Grade 250.
- Field welding of construction accessories will not be permitted to the beams or girders.
- Anchor bolts shall be set before bolting end floorbeams over supports.
- Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
- The back face of the Closed Abutments shall be waterproofed according to Article 503.18 of the Standard Specifications.
- Bridge Seat Sealer shall be applied to the seat area of the Abutments.
- All dimensions are in millimeters (mm) except as noted.
- The Inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field Painting of new structural steel except where otherwise noted. 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 face of the webs and top and bottom flanges of the through girders, the exterior stiffener members, pipe handrail and all walkway support members shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".
- The thru girder web and tension flanges are designated as "Fracture Critical Members" and shall conform to the Fracture Control Plan for Fracture Critical Members of the 2003 AREMA Manual for Zone 2. These components are noted on the plans as (F.C.M.).
- The main load carrying member components subject to tensile stress, other than the Fracture Critical Members, shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange floorbeams, connection plates, floor plates and ballast plates and are noted on the plans as (N.T.R.).
- All welding shall be according to the 2003 AREMA Manual and AWS Bridge welding Code D1.5
- Length of flange and web plates shall be corrected as required for grade, camber and shrinkage caused by welding.
- The thru girder structure shall be fully shop assembled (including floor plates, ballast plates and upper floor plates) for checking accurate fit, and then disassembled prior to shipping. Cost included with Furnishing and Erecting Structural Steel.
- All construction joints shall be bonded.
- See Roadway Plans for removal of existing drain pipe and the tile drains at the bridge site and for provision for new drainage lines connecting to highway drainage systems.
- The contractor shall drive 1 test pile in a permanent location at each abutment as directed by the Engineer before ordering the remainder of piles.

RAILROAD NOTES

- Track outage between 24 and 48 hours will be structured such that Sunday will comprise 24 hours of outage with the outage balance occurring on either Saturday or Monday as train traffic dictates.
- Track outage between 8 and 24 hours may be permitted by the Railroad on other days beginning at approximately 7:00 a.m.
 - Outage less than 8 hours will require a 24 - hour advance notice. Outages between 8 hours and 24 hours will require a 48 - hour advance notice. Outages greater than 24 hours will require a 7 - day advance notice.
 - Sunday is the preferred day for outages of any duration.
- All outages in excess of 12 hours are subject to the Railroad approval, coordination and scheduling as train traffic permits at the time of actual construction.
- The current approximate train schedule is as follows:

Day of Week	Trains/Day	7:00 a.m.	3:00 p.m.	11:00 p.m.
Monday thru Friday	6	2	2	2
Saturday	6	2	2	2
Sunday	6	2	2	2
- All construction within 7.62 meters of the track (7.62 meter either side of the track centerline) must cease during train movements through the construction area. Construction equipment shall be pulled back to clear track centerline by 3.81 meters.
- Railroad operating speed will be reduced to 32 km/h during construction.
- When artificial lighting is utilized in night operations, the Contractor shall exercise the utmost caution in preventing adverse visibility to the train operation. The night operation must not interfere with train operations. The lights must be perpendicular to the track and shine downward.
- Flagging requirements will be determined by the Railroad and provided by the Railroad. The Railroad will invoice IDOT. The Contractor shall structure work to minimize flagging.

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
Stud Shear Connectors	Each	-	144	144
Test Pile Metal Shells	Each	-	2	2
Name Plates	Each	1	-	1
Porous Granular Embankment	cu m	-	302	302
Structure Excavation	cu m	220.5	115.8	336.3
Concrete Structures	cu m	-	410.00	410.00
Rustication Finish	sq m	-	138.7	138.7
Furnishing and Erecting Structural Steel	L Sum	1	-	1
Untreated Timber Lagging	sq m	-	87.4	87.4
Furnishing Soldier Piles (W Section)	meter	-	7.5	7.5
Furnishing Soldier Piles (Built-Up Section)	meter	-	67	67
Reinforcement Bars, Epoxy Coated	kg	-	24,770	24,770
Pipe Handrail, Special	meter	36.2	25.7	61.9
Furnishing Metal Pile Shells 356mm	meter	-	994.0	994.0
Driving and Filling Shells	meter	-	994.0	994.0
Membrane Waterproofing	sq m	210.2	-	210.2
Bridge Seat Sealer	sq m	-	31.7	31.7
Geocomposite Wall Drain	sq m	-	81.3	81.3
Pipe Underdrains for Structures, 200mm	meter	-	20.7	20.7
Pipe Underdrains for Structures, 100mm	meter	-	27.4	27.4
Braced Excavation	cu m	-	1,187.7	1,187.7
Steel Grate Walkway	sq m	45.7	-	45.7
Drilling and Setting Soldier Piles	cu m	-	98.45	98.45
Floating Bearings, Non-Guided Expansion, 750kN	Each	2	-	2
Permanent Ground Anchor	Each	-	8	8
Floating Bearings, Fixed - 2,600kN	Each	2	-	2
Floating Bearings, Guided Expansion, 2,600kN	Each	2	-	2
Drainage System	L Sum	1	-	1

GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIALS			
Date	Designed EV	ELGIN, JOLIET & EASTERN RWY. CO. BRIDGE OVER ILLINOIS ROUTE 22 F.A.P. ROUTE 337 SECTION (SR-D) LAKE COUNTY STATION 32+61.151 STRUCTURE NO. 049-0188	Sheet No.
Revisions	Drawn EV		2
	Checked NPP		of 37
	Approved NPP		
Prepared By: URS			