

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	140-BR	KANKAKEE	51	21
FED. ROAD DIST. NO. 1			ILLINOIS PROJECT	

Sheet 2 of 36

STATION 260+90  
REBUILT 198 BY  
STATE OF ILLINOIS  
F.A.I. RT. 57 SEC. 140-BR  
F.A. PROJ. AIR-57-6(1A1)  
LOADING H920 & ALT.  
STR. NO. 046-0004

LETTERING FOR NAME PLATE  
SOUTHBOUND BRIDGE  
See Std. E113

STATION 260+90  
REBUILT 198 BY  
STATE OF ILLINOIS  
F.A.I. RT. 57 SEC. 140-BR  
F.A. PROJ. AIR-57-6(1A1)  
LOADING H920 & ALT.  
STR. NO. 046-0003

LETTERING FOR NAME PLATE  
NORTHBOUND BRIDGE  
See Std. E113

Note: Existing name plates shall be cleaned and relocated beneath new name plates. Cost shall be incidental to Name Plates. See sheet E6 for details.

### GENERAL NOTES

Fasteners shall be high strength bolts. Bolts  $\frac{3}{4}$ ", open holes  $\frac{13}{16}$ ", unless otherwise noted.  
Calculated weight of new Structural Steel = 366,650 pounds.

All new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint.

Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

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 E. These components are the tension flanges, webs and all splice plate material of the steel girders. (New Material only)

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $\frac{1}{8}$ " 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, shims of the dimensions of top plate width by flange width shall be provided and placed as detailed.

See Proposal for Boring Data.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,000 lbs, and  $\frac{3}{4}$ " x 12" hooked bolts extending 9" into new concrete.

All existing top flange surfaces which shall be in contact with new concrete shall be cleaned to satisfy Article 509.06(b) Method II and locations to receive studs shall be cleaned to bare metal per Article 507.06(m)(2). Cost of this work is incidental to Removal of Existing Concrete Deck.

Layout of stone riprap may be varied to suit ground conditions as directed by the Engineer.

All contact surfaces of joints for the cross frames shall be free of paint or loquer.

### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Concrete Deck	L. Sum	1		1
Concrete Removal	Cu. Yd		123	123
Floor Drains	Each	108		108
Drainage Sumpers	Each	32		32
Protective Coat	Sq. Yd	4,054	137	4,191
Class X Concrete	Cu. Yd	1,184.5	107.9	1,292.4
Structural Steel	L. Sum			1
Stud Shear Connectors	Each	11,752		11,752
Jacking and Shoring Existing Girders	Each	39		39
Cleaning and Painting Steel Bridge	L. Sum			1
Reinforcement Bars	Pound		11,850	11,850
Reinforcement Bars (Epoxy Coated)	Pound	566,360		566,360
Concrete Piles	Lin. Ft.		881	881
Name Plates	Each	2		2
Stone Riprap	Sq. Yd		1,830	1,830
Slope Wall Removal	Sq. Yd		1,190	1,190
Elastomeric Bearing Assembly, Type I	Each	8		8
Elastomeric Bearing Assembly, Type II	Each	8		8
Neoprene Expansion Joint 4"	Lin. Ft.	101		101
Neoprene Expansion Joint 6"	Lin. Ft.	109		109
Repair Concrete Structures	Sq. Ft.		670	670
Porous Granular Embankment	Ton		170	170
Expansion Bolts $\frac{3}{4}$ Inch x 12 Inch	Each		68	68

GENERAL NOTES  
F.A.I. ROUTE 57  
SECTION 140-BR  
KANKAKEE COUNTY  
STATION 260+90

COLLINS AND RICE  
CONSULTING ENGINEERS

DRAWN: A.R.K. CHECKED: F.S. & R.M.B.  
DATE: 12-15-84 NO. 1874

FOR INFORMATION ONLY

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR BRIDGE PLANS 1987	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL#		DRAWN -	REVISED -			57	(140BR, BR-1 & II)	KANKAKEE	183	137	
*MODELNAME#		CHECKED -	REVISED -			CONTRACT NO. 66750		ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -			SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____			