



CONTRACT NO. 98999				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)B-1	SALINE	71	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STATION 1649+25
REBUILT BY
STATE OF ILLINOIS
FA RTE 126 Spur, SEC. 105B-DR-4
FA PROJ. RF-375 (10)
LOADING H320**

*105 (B-DR B-DR1 B-DR2 B-DR3 B-DR4)
SHEET NO. 1
7 SHEETS

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

Expansion joints which are not cast in the structure shall be fabricated and marked in accordance with Art. 505.06 of the Standard Specifications and are included in quantity of structure.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

Expansion bolts shall consist of self-drilling expansion anchors and 3/4" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.

Limits of waterproofing membrane system shall extend from cut to cut of deck and from expansion joint to 2'-0" beyond sawed joint. For Waterproofing Membrane System see Special Provisions.

All Structural Steel shall be painted with two coats of basic lead silico chromate paint.

DETAIL "A"

NOTE: Dimensions are at right angles.

Hooked areas to be paired after beams have been erected and joints grouted.

Ends of beams shall be aligned at the expansion joints. Any local variation in the beam heights shall be placed at the fixed joint.

See End of Beam Detail for reinforcement.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bimodular Concrete Surface Course, Class 1	Ton	32		32
Removal of Existing Superstructure	Each	1		1
Concrete Removal	Cu Yd	2.0	2.0	4.0
Expansion Bolts 3/4"	Each	2	2	4
Class A Concrete	Cu Yd	0.9	24.5	25.4
Precast Concrete Bridge Slab	Sq Ft	34.3		34.3
Precast Prestressed Concrete D. or B. (Depth)	Sq Ft	16.59		16.59
Steel Reinforcing, Type N	Lbs	155		155
Reinforcement Bars	Pound	180	3110	3290
Name Plate	Each	1		1
Prefabricated Joint Sealer	Lbs	78		78
Waterproofing Membrane System	Sq Yd	192		192
Structural Steel	Pound	26.30		26.30
Portland Cement Mortar Surface Course	Lbs	503		503

DESIGN CHECKED

FIELD UNIT	PRECAST UNIT
f _c = 14,000 psi - Sub	f _c = 4,700 psi
f _c = 1,000 psi	f _c = 1,000 psi
f _s = 20,000 psi - Print	f _s = 20,000 psi
n = 10	n = 8

PRECAST PRESTRESSED UNITS

f_c = 3,000 psi
 f_c = 4,000 psi
 f_s = 270,000 psi - Top Strands
 f_s = 189,000 psi - Top Strands

Allow 0.9% for future w.p.
 Design Specifications
 1969 AA700 on special

WATERWAY INFORMATION

Drainage Area ----- 2660 Acres
 Character ----- rolling, clay, wooded, cultivated
 Present Opening ----- 424 sq ft
 Required Opening ----- 424 sq ft
 Proposed Opening ----- 424 sq ft
 Q(50) = 2000 cfs

GENERAL PLAN & ELEVATION
 FA RTE 126 Spur OVER
 WEST HARRISBURG
 DRAINAGE DITCH
 FA ROUTE 126 Spur
 SECTION 105B-DR-4
 SALINE COUNTY
 STATION 1649+25

LOCATION SKETCH

ELEVATION

PLAN

PROFILE
 S.D.I. ROUTE 143

DESIGNED Glen H. Kiehn
CHECKED B. P. Shien
DRAWN S.M.R.
CHECKED A.

EXAMINED [Signature]
DESIGNED M. Blumstein
CHECKED [Signature]
DRAWN [Signature]
CHECKED [Signature]

General on 5.20.75 P.m.

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	06/07
DRAWN BY:	DWH	06/07
CHECKED BY:	MTD	10/07
APPROVED BY:	RDP	03/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
 FAP RTE 869 (IL 34)
 SECTION (105A)B-1
 SALINE COUNTY