BENCHMARK: Chiseled Square in top of hub guard at NW end of SN 083-0020, Sta. 243+55.00, 16.4' Rt., Elev. 373.50.

EXISTING STRUCTURE: SN 083-0020 was originally built in 1925 as S.B.I. Rte. 34, Section 1 BC. The superstructure was replaced in 1977. The superstructure consists of two simple spans, 27" PPC deck beams. The substructure consists of two reinforced concrete closed abutments on timber piles, and a single solid concrete encased pile bent pier supported on H-piles. The back-to-back abutments length is 119'-6¼", the out-to-out width is 33'-0". The existing superstructure and the existing bridge approach shoulders shall be removed and replaced utilizing stage construction.

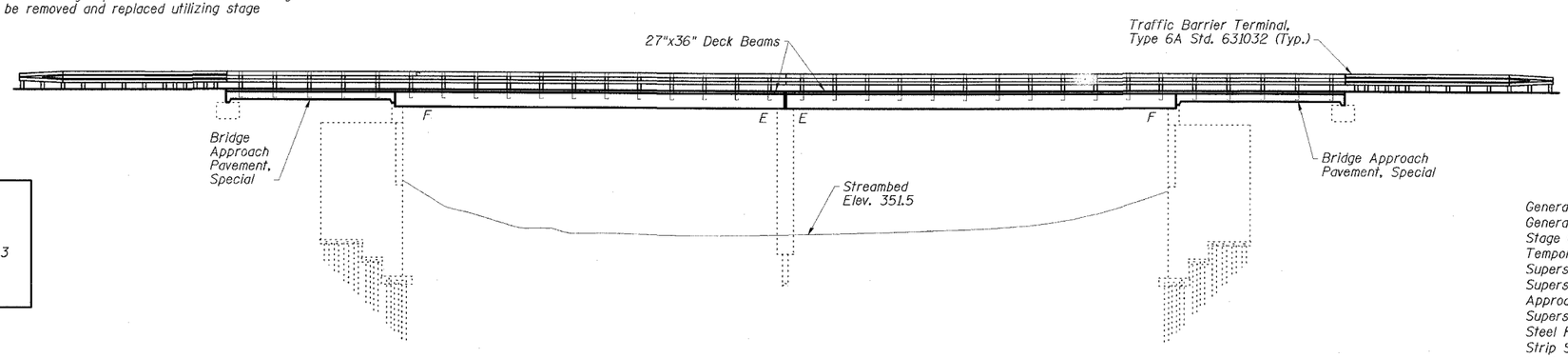
No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 132	1BR-3	SALINE	114	66
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
16 SHEETS

78010



STATION 244+40.00
REBUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 132 SEC. 1BR-3
LOADING HS20
STR. NO. 083-0020

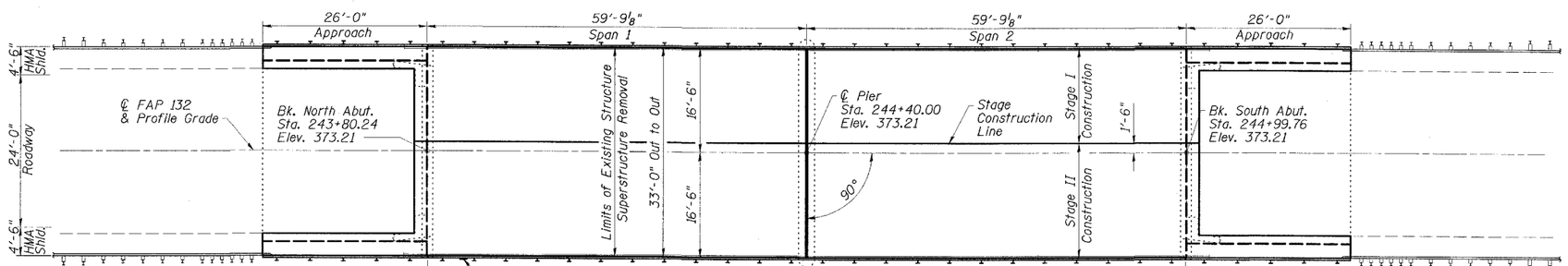
NAME PLATE
See Std. 515001

Note: Existing Name Plate shall be cleaned and relocated adjacent to the new plate. Cost included with Name Plates.

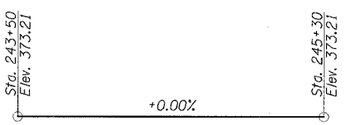
STRUCTURE INDEX OF SHEETS

General Plan	Dwg. No. 1 of 16
General Data	Dwg. No. 2 of 16
Stage Construction Details	Dwg. No. 3 of 16
Temporary Concrete Barrier	Dwg. No. 4 of 16
Superstructure	Dwg. No. 5 of 16
Superstructure Details	Dwg. No. 6 of 16
Approach Details	Dwg. No. 7 of 16
Superstructure and Approach Details	Dwg. No. 8 of 16
Steel Railing, Type SM	Dwg. No. 9 of 16
Strip Seal Expansion Joint	Dwg. No. 10 of 16
North Abutment	Dwg. No. 11 of 16
South Abutment	Dwg. No. 12 of 16
Abutment Details	Dwg. No. 13 of 16
Pier	Dwg. No. 14 of 16
Pier Details	Dwg. No. 15 of 16
Bar Splicer Assembly Details	Dwg. No. 16 of 16

ELEVATION



PLAN



PROFILE GRADE
(Along ℄ Roadway)

SCOPE OF WORK

1. Remove existing surfacing, steel railing, deck beams, curbs and bridge approach shoulders.
2. Repair beam bearing seats and perform other repairs at abutments and pier as required.
3. Reconstruct a two-span PPCD beam superstructure with Concrete Wearing Surface and Steel Railing, Type SM. Reconstruct existing approach shoulders with Bridge Approach Pavement with Concrete Wearing Surface.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E Anderson (TSD)
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS · RICHARD D. PAYNE · No. 4647 · REGISTERED STRUCTURAL ENGINEER

EXPIRES 11-30-08

Richard D. Payne
SIGNATURE

8/02/07
DATE

ESCA CONSULTANTS, INC.

DESIGNED BY:	JMS	05/07
DRAWN BY:	HAS	05/07
CHECKED BY:	MTD	06/07
APPROVED BY:	RDP	06/07

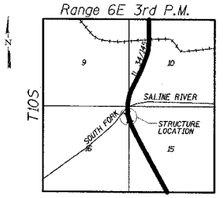
DESIGN SPECIFICATION
2002 AASHTO

LOADING HS20-44
No Allowance for future wearing surface

DESIGN STRESSES

FIELD UNITS
f'c = 5,000 psi (Concrete Wearing Surface)
f'c = 3,500 psi (All concrete except CWS)
fy = 60,000 psi (reinf.)

PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½"ϕ low lax strands)
fsi = 201,960 psi (½"ϕ low lax strands)



LOCATION SKETCH

GENERAL PLAN
IL 34/145 OVER SOUTH FORK SALINE RIVER OVERFLOW
FAP ROUTE 132 - SECTION 1BR-3
SALINE COUNTY
STATION 244+40.00
STRUCTURE NO. 083-0020