

BENCHMARK: Railroad spike in power pole, Sta. 136+42.83, 36.8' rt.
Elev. 677.46

EXISTING STRUCTURE: SN 038-0174 was originally built in 1974. The bituminous overlay and expansion joints were removed and replaced in 1994. Concrete repairs and crack sealing were also performed in 1994. The superstructure consists of 2 simple spans of 21" PPC deck beams on pile bent abutments and a solid shaft pier on piles. The back-to-back abutments dimension measures 93'-6" while the out-to-out width measures 33'-5". The existing superstructure shall be removed and replaced. A road closure shall be used during construction of the bridge.

No salvage

STATION 135+74
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 840 SEC. 123-BR-1
LOADING HS20
STR. NO. 038-0174

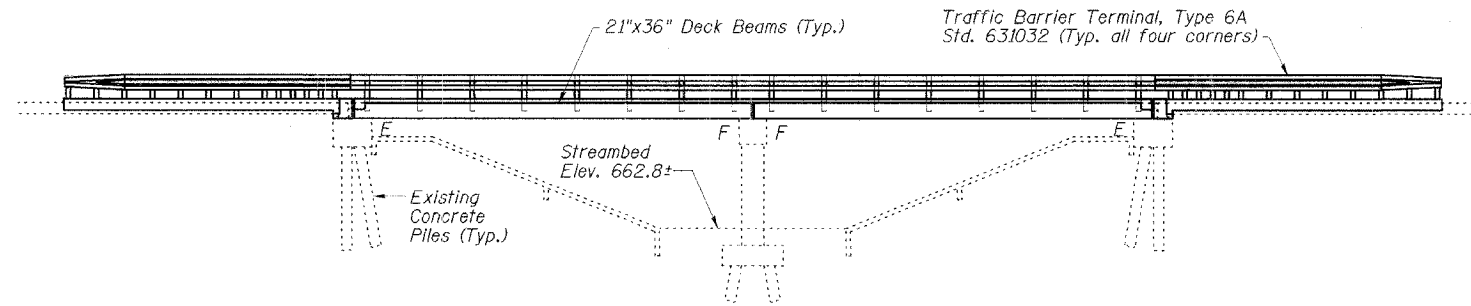
NAME PLATE

See Std. 515001

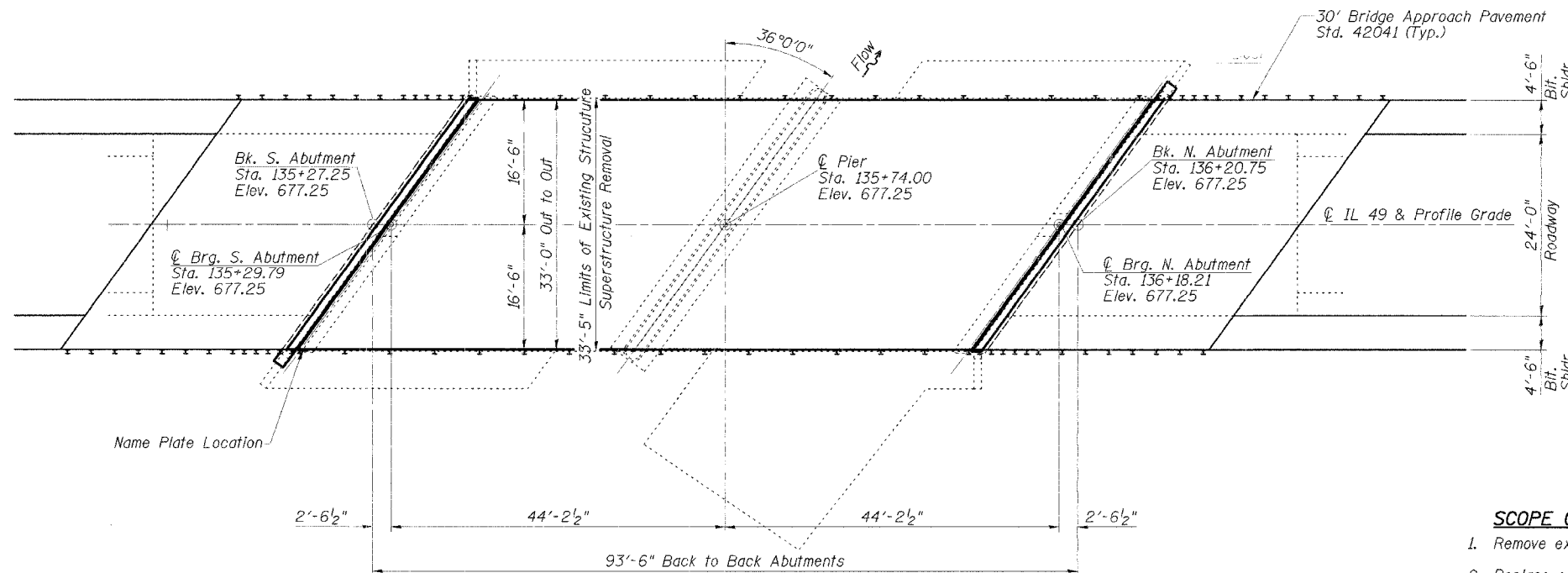
Note:
Existing Name Plate shall be cleaned and relocated adjacent to the new plate. Cost included with Name Plates.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FAP 840		IROQUOIS	39	13
FED. ROAD DIST. NO.				SHEETS
66647				14 SHEETS
BLDG. NO.				PROJECT
				123-BR-1



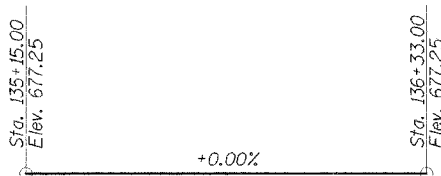
ELEVATION



PLAN

SCOPE OF WORK

1. Remove existing surfacing, steel railing, and deck beams.
2. Replace existing abutment backwalls.
3. Repair beam bearing seats at abutments and pier as required.
4. Reconstruct a two-span PPCD beam superstructure with concrete wearing surface and Steel Bridge Rail Type SM, and new bridge approach pavements.



PROFILE GRADE
(Along & Roadway)

ESCA
CONSULTANTS, INC.

DESIGNED BY:	FMA	04/06
DRAWN BY:	cj	04/06
CHECKED BY:	ELH/MTD	10/06
APPROVED BY:	RDP	10/06



EXPIRES 11-30-06
SIGNATURE
10-06-06
DATE

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

DESIGN SPECIFICATION

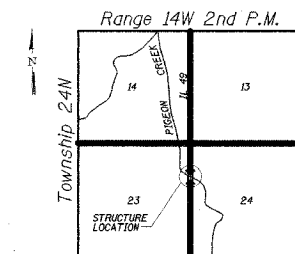
2002 AASHTO
LOADING HS20-44
Allow 50 psf future wearing surface

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 (1/2" low lax strands)
f'si = 201,960 psi (1/2" low lax strands)



LOCATION SKETCH

GENERAL PLAN
IL 49 OVER PIGEON CREEK
FAP ROUTE 840 - SECTION 123-BR-1
IROQUOIS COUNTY
STATION 135+74.00
STRUCTURE NO. 038-0174