

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	90-13HVB	TAZEWELL	1366	449
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
68 SHEETS

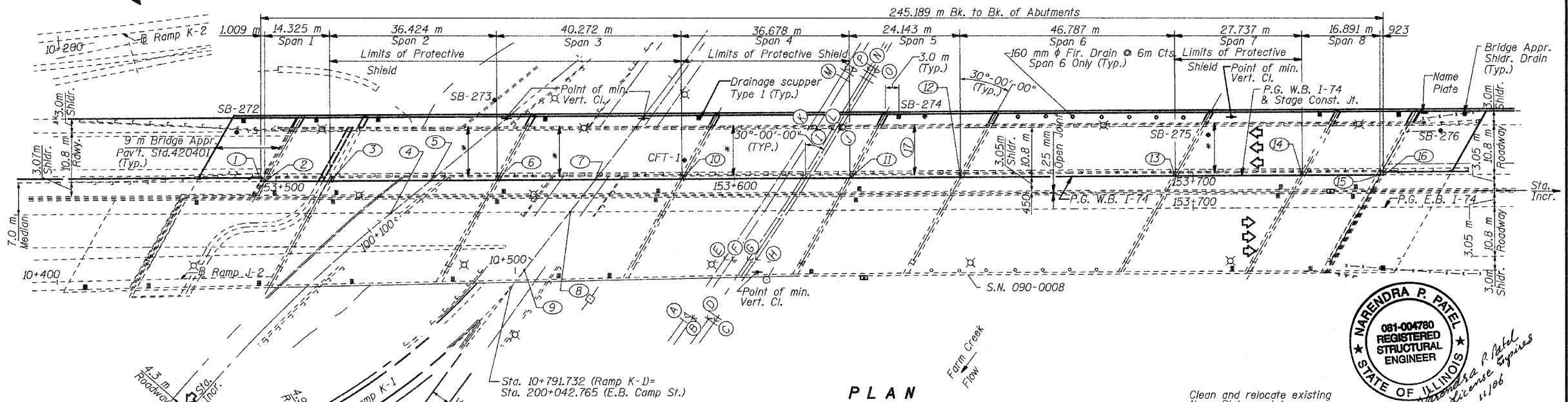
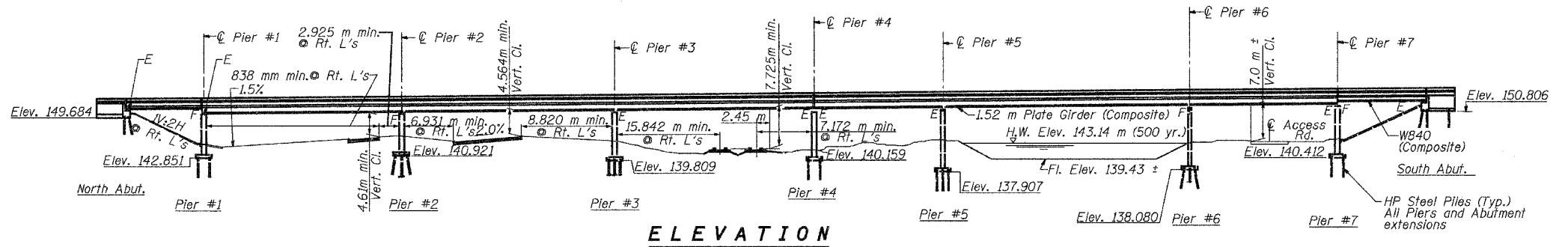
B.M. 1/2" Iron Rod set off shoulder on South side of Camp St. Rte. 8 East ± 25 m East of F.A.I. Rte. 74 S.N. 090-0009. Elev. 146.286
State point TH 8905, Elev. 149.398 m.

Existing Structure: S.N. 090-0009 is eight-span bridge built as F.A.I. Route 5 (now F.A.I. Route 74), Section 90-13 HVB, in 1960. The superstructure consists of R.C. concrete deck, 10.97 m wide by 244.78 m (S.N. 090-0009, WB) long, supported by 840 WF beams (end spans) and 152 m riveted plate girders. The deck and stem of Pier 4 are to be removed and replaced. Exist. piles are to be reused.

Staging Note: Westbound traffic will be diverted on to the newly constructed Eastbound structure during construction of Westbound structure.

Note: All dimensions are in millimeters (mm) except as noted.

Salvage: Existing Beams and Existing Substructures. Stem of Pier 4 to be reconstructed.



DESIGN SPECIFICATIONS

1996 AASHTO, with 1997, 1998, 1999, & 2000 Interims
1995 Seismic Retrofitting Manual for Highway Bridges (FHWA-RD-94-052)
LOADING MS18 & ALT.
Allow 2.4 kN/m² for future wearing surface.

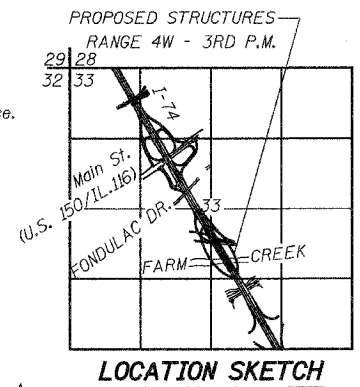
DESIGN STRESSES

FIELD UNITS
f'_c = 24 MPa
f_y = 400 MPa (Reinf.)
f_s = 140 MPa (Struct.)

EXISTING
f_c = 10 MPa
f_s = 140 MPa (Reinf.)
f_s = 125 MPa (Struct.)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.043g
Site Coefficient (S) = 1.0



SURVEYED TOP OF RAIL ELEVATIONS

Location	Elevation	Location	Elevation	Location	Elevation	Location	Elevation
(A)	142.83	(E)	142.90	(I)	143.17	(M)	143.09
(B)	142.87	(F)	142.91	(J)	143.18	(N)	143.22
(C)	143.08	(G)	143.10	(K)	143.03	(O)	143.23
(D)	143.07	(H)	143.12	(L)	143.05	(P)	143.10



Clean and relocate existing Name Plate next to new Name Plate (Typ.). Cost included in the price for Name Plates

NAME PLATE
See Std. 515001

STATION 153+621.152
REBUILT 2005 BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. (90-13HVB)BY
LOADING MS18 & ALT.
STR. NO. 090-0009

* Limits of Protective Shield

Notes:
1. See sht. 2 for legend (1) through (17).
2. See sht. 2 for slopewall details.
3. See sht. 2 for curve data.

GENERAL PLAN AND ELEVATION

Date	Designed EV	WESTBOUND F.A.I. ROUTE 74 OVER CAMP STREET, FARM CREEK, AND TP&W RR F.A.I. RTE. 74 SECTION (90-13HVB)BY TAZEWELL COUNTY STATION 153+625.193 STRUCTURE NO. 090-0009	Sheet No. 1 of 68
Revisions	Drawn EV		
	Checked NPP		
	Approved		
Prepared By: BRW, Inc. A Division of URS	1701 Golf Rd., Suite 1000 Rolling Meadows, IL.	BRW Job No. 17049-071	