

Bench Mark: Chiseled "□" S.E. corner Camp St., bridge parapet concrete wall state point TH8905, Elev. 149.398

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 25 SHEETS
S. R. I.	#	TAZEWELL	1366	423	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

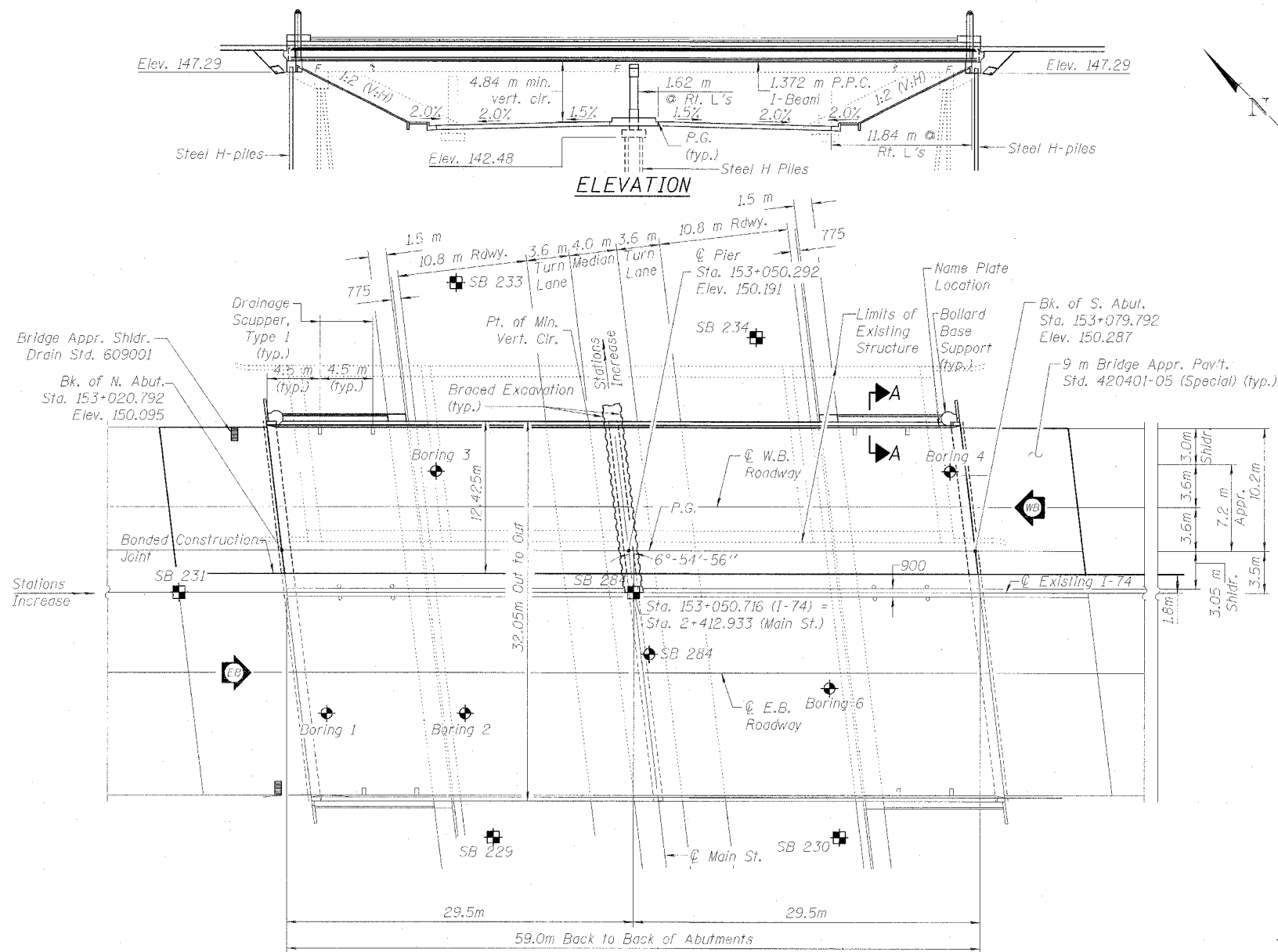
*(90-11HB)BR

Existing Structure: 090-0006(WB) 3 span WF beams and steel plate girders supported on pile bent abutments and multiple column hammerhead piers. The length is 54.03 m bk. to bk. of abutments and the width is variable from 14.63 m to 14.73 m out to out.

Staging Note: Two lanes of traffic in each direction will be maintained on the Stage I EB structure S.N. 090-0161 while Stage II WB S.N. 090-0160 is constructed.

No salvage

Notes: All dimensions are in millimeters except as noted. For limits of protective shield See Sheet 3 of 25



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	cu m	-	105.9	105.9
Concrete Superstructure	cu m	198.3	-	198.3
Removal of Existing Structures No. 1	Each	-	1	1
Reinforcement Bars, Epoxy Coated	kg	25,110	10,710	35,820
Bar Splicers	Each	80	-	80
Name Plates	Each	1	-	1
Slopedwall 100 mm	sq m	-	309	309
Protective Shield	sq m	-	531	531
Braced Excavation	cu m	-	63	63
Drainage Scuppers, Type 1	Each	4	-	4
Protective Coat	sq m	774	-	774
Bridge Deck Grooving	sq m	684	-	684
Porous Granular Embankment	cu m	-	152	152
Structure Excavation	cu m	-	232	232
Furnishing Steel Piles HP310x94	m	-	292	292
Driving Steel Piles	m	-	292	292
Furn. & Erect. Precast Prestressed Concrete I Beams, 1372 mm	m	352	-	352
Aluminum Railing, Type H (Special)	m	56	-	56
Install Bollard and Luminaires	Each	2	-	2
Permanent Survey Markers, Type 1	Each	-	1	1

SOIL BORING KEY
◆ 1956 Borings
■ 1996 Borings



David L. Maurer, PE, SE DATE 12/14/04
S.E. No. 3921
EXP. DATE 11/2006

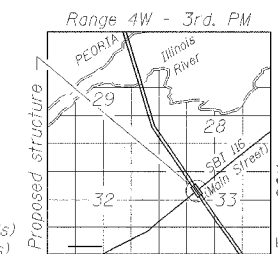
LOADING MS18 & ALT.
Allow 2.4 kN/m² for future wearing surface.
DESIGN SPECIFICATIONS
1996 AASHTO with 1997, 1998, & 1999 Interims

DESIGN STRESSES

FIELD UNITS
f_c = 24 MPa
f_y = 400 MPa (reinforcement)
PRECAST PRESTRESSED UNITS
f_c = 42 MPa
f_{si} = 35 MPa
f_s = 1860 MPa (12.7 mm φ low relaxed strands)
f_{sl} = 1395 MPa (12.7 mm φ low relaxed strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.043g
Site Coefficient (S) = 1.2



LOCATION SKETCH



GENERAL PLAN AND ELEVATION
WB INTERSTATE 74 OVER
MAIN STREET (IL. RTE. 116)
F.A.I. ROUTE 74 - SEC. (90-11HB)BR
TAZEWELL COUNTY
STATION 153+050.716
STRUCTURE NO. 090-0160

DESIGNED	KEF
CHECKED	KEF
DRAWN	DEM
CHECKED	KEF

STATION 153+050.716
BUILT 20... BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. (90-11HB)BR
LOADING MS18 & ALT.
STR. NO. 090-0160

NAME PLATE
See Std. 515001

