

12/17/2004 10:26:01 AM

6201

Bench Mark: BM #19, Chisled 'L' on S.E. corner of N.W. crashwall of bridge W.B. I-74 over Washington St. in East Peoria. Elevation 143.777

Existing Structure: 090-0010 (EB) and 090-0011 (WB), built in 1961 are dual 3-span plate girder structures on pile bent abutments. The structures are 72 m long and vary in width. Both structures will be removed and replaced by the 2-span continuous PPC Bulb T-beam structures shown below.

Staging Note: Both Westbound and Eastbound traffic will be maintained on the existing Eastbound structure during the Westbound structure construction.

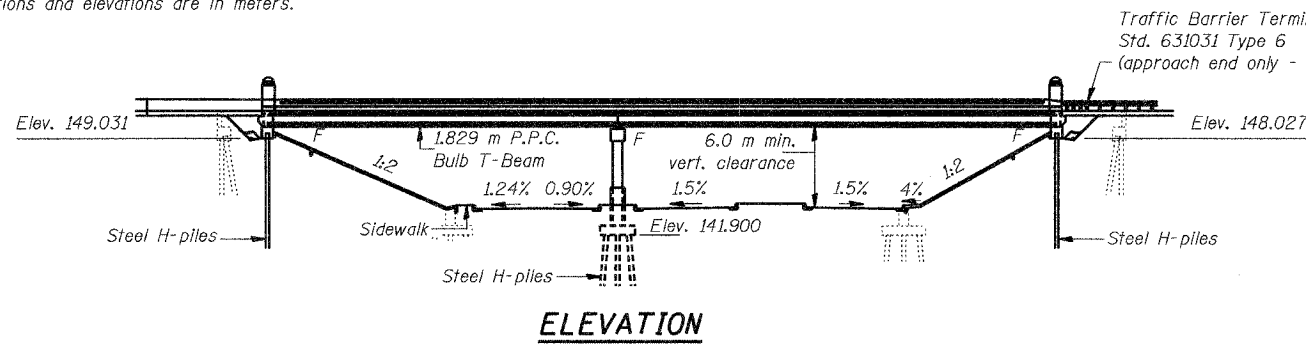
No salvage

Note: All dimensions are in millimeters except as noted.

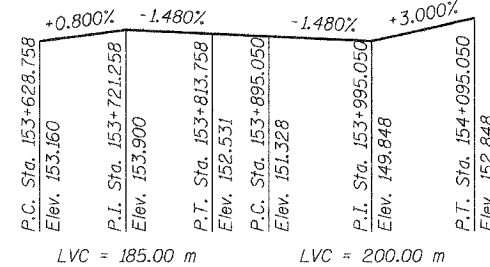
Note: All stations and elevations are in meters.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

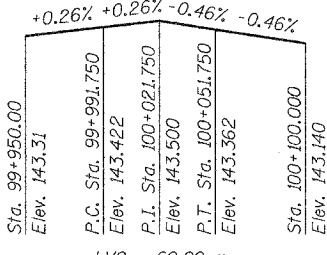
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(90-14HB)BR	TAZEWELL	1366	518
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT	



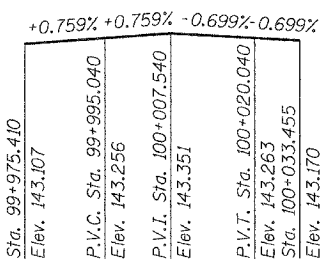
ELEVATION



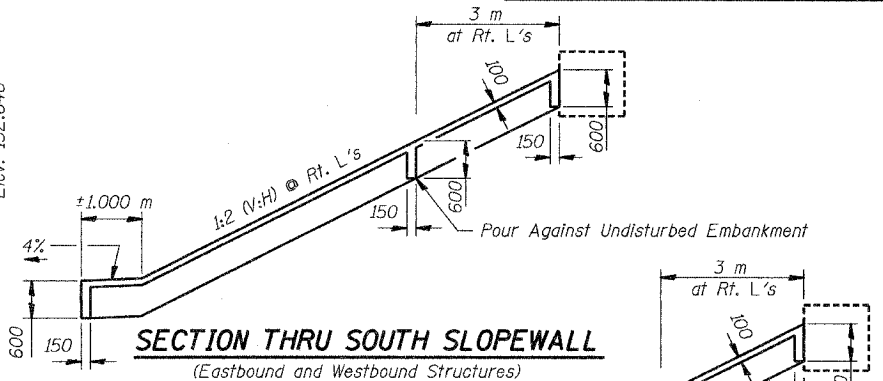
PROFILE GRADE
(EB & WB I-74)



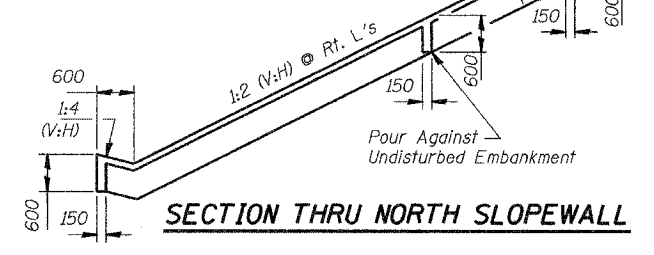
PROFILE GRADE
(Washington Street)



PROFILE GRADE
(Taylor Street)



SECTION THRU SOUTH SLOPEWALL
(Eastbound and Westbound Structures)



SECTION THRU NORTH SLOPEWALL

STATION 153+868.540
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. (90-14HB)BR
LOADING MS18 & ALT.
STR. NO. 090-0163

NAME PLATE
(See Std. 515001)

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999, 2000 and 2002 Interims

LOADING MS18 & ALT.

Allow 2.4 kN/m² for future wearing surface.

DESIGN STRESSES

FIELD UNITS

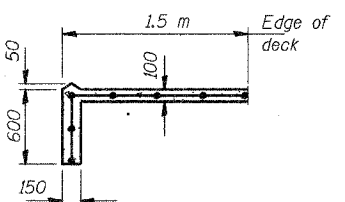
f'_c = 24 MPa
f_y = 400 MPa (reinforcement)

PRECAST PRESTRESSED UNITS

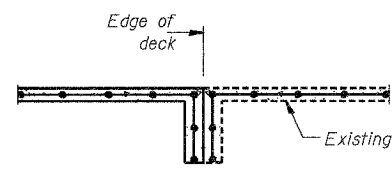
f'_c = 42 MPa
f'_{ci} = 35 MPa
f'_s = 1,860 MPa (12.7 mm φ low lax. strands)
f'_{si} = 1,395 MPa (12.7 mm φ low lax. strands)

SEISMIC DATA

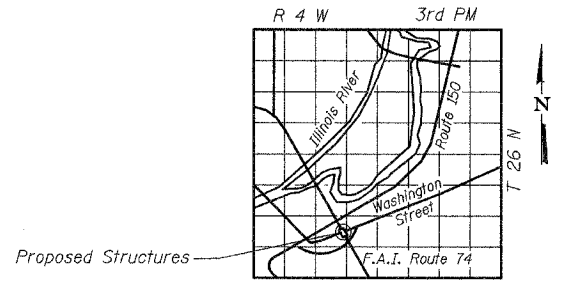
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.042g
Site Coefficient (S) = 1.2



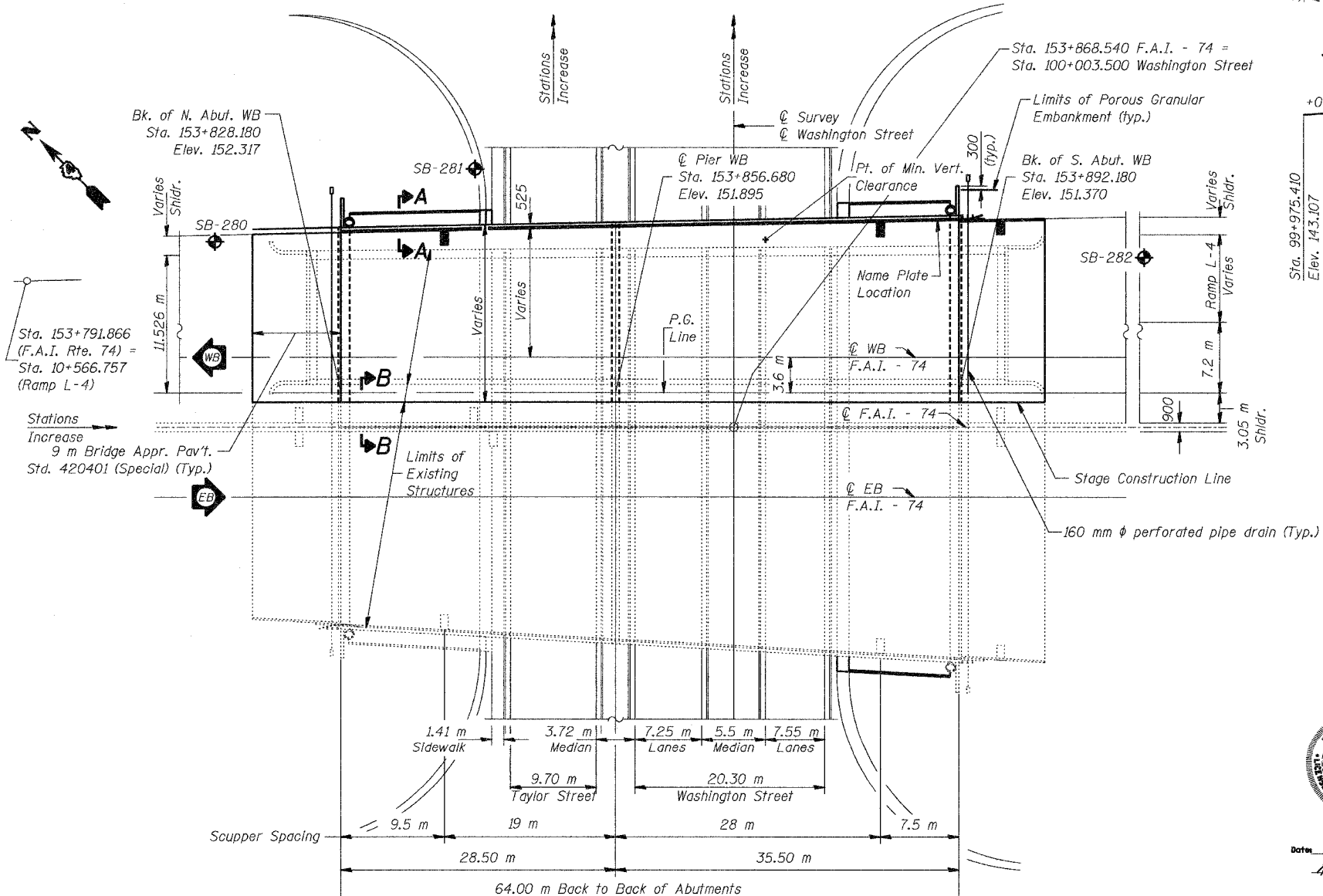
SECTION A-A



SECTION B-B



LOCATION SKETCH



PLAN



Date: 12/30/04
Keith W. Bering
Ill. Structural No. 4177

GENERAL PLAN AND ELEVATION				Sheet No.
Date	Designed	ACW	INTERSTATE 74 AND RAMP L-1 AND L-4 OVER E. WASHINGTON STREET F.A.I. RTE. 74 SECTION (90-14HB)BR TAZEWELL COUNTY STATION 153+868.540 STRUCTURE NO. 090-0163 (WB)	1 of 28
Revisions	Drawn	BKN		
	Checked	KWB		
	Approved	KWB		
Prepared By:	URS 3040 North University Avenue Decatur, IL 62526		URS Job No. 2100001243.01	