

B.M. #61 -
 Iron rod in cap, Station 545+17.14, Elevation 770.77, Offset 65.08' Right.
 Northing: 2063761.44, Easting: 2429432.89.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

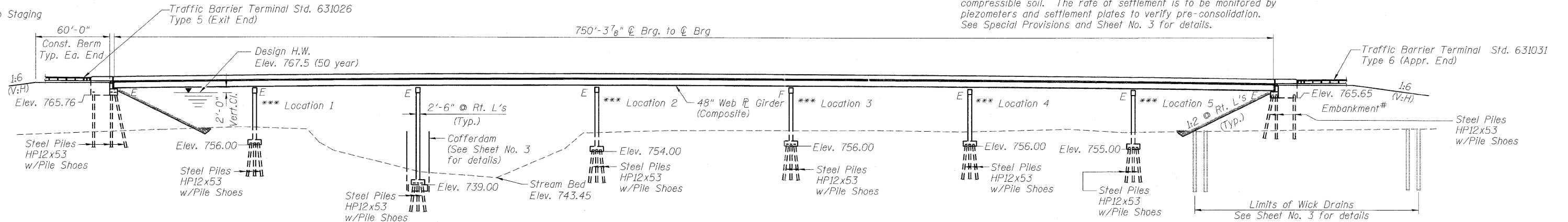
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 47 SHEETS
FAP 301	177-2	STEPHENSON	211	95	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Existing Structure: There is no existing structure. The existing adjacent structure (SN 089-0045) will become eastbound only.

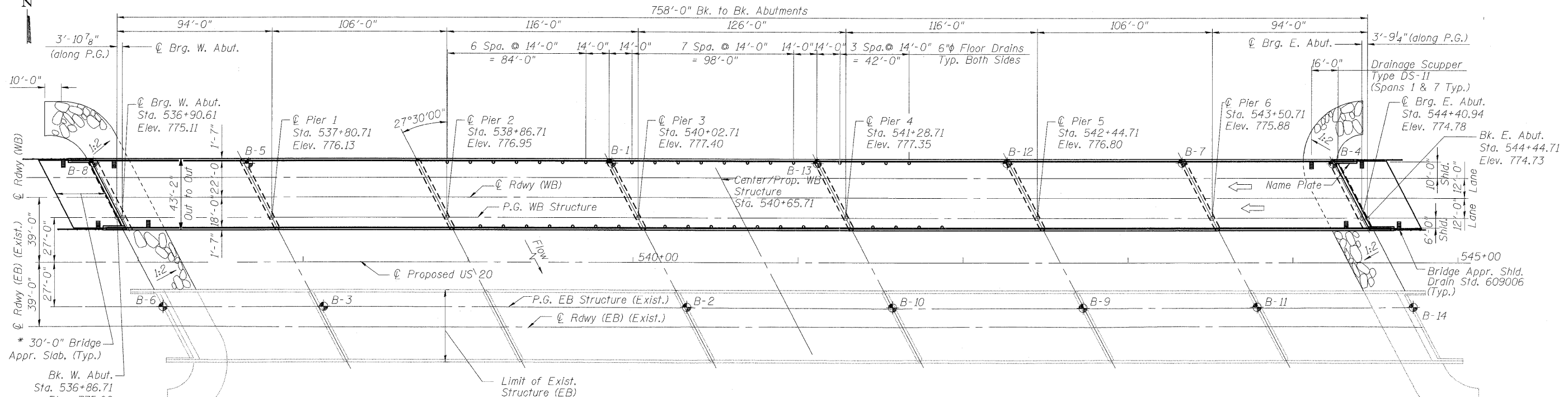
No Salvage

No Staging

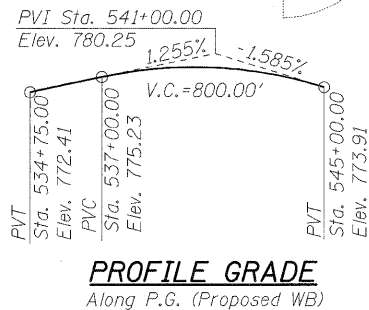
Embankment plus 3 feet of surcharge is to be placed three (3) months minimum prior to pile installation and abutment construction to allow for at least 95% consolidation of the compressible soil. The rate of settlement is to be monitored by piezometers and settlement plates to verify pre-consolidation. See Special Provisions and Sheet No. 3 for details.



ELEVATION
 *** Provide Underwater Structure Excavation Protection at these piers. See Special Provisions.
 * Bridge Appr. Slabs By Others (Typ. Ea. End)



PLAN



PROFILE GRADE
 Along P.G. (Proposed WB)

WATERWAY INFORMATION TABLE

		Exist. Low Grade Elev. 767.9 @ Sta. 551+00		Low Grade Elev. 768.1 @ Sta. 528+00				
Drainage Area = 1296 sq. miles								
	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.		
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	20700	6381	6381	766.8	0.7	767.5	767.5
Base	100	24800	7345	7345	768.4	0.7	769.1	769.2
Overtopping	68	22200	6769	6769	767.4	0.7	768.1	768.1

10 Year Velocity through Exist. Bridge = 2.5 fps 10 Year Velocity through Prop. Bridge = 2.5 fps

LEGEND

1975 Soil Boring location shown thus: B-1

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface

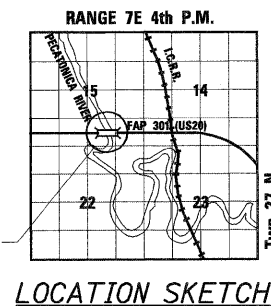
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinf.)
 fy = 50,000 psi (AASHTO M270, GR. 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.032g
 Site Coefficient (S) = 1.0



LOCATION SKETCH

Note: Pecatonica River Bridge (SN 089-0082) built as a part of Contract No. 64799.

GENERAL PLAN & ELEVATION
U.S. ROUTE 20 OVER
PECATONICA RIVER
PUBLIC WATER
F.A.P. ROUTE 301 SECTION 177-2B-1
STEPHENSON COUNTY
STATION 540+65.71
STRUCTURE NO. 089-0082

PARSONS BRINCKERHOFF
 280 West Monroe St.
 Suite 900
 Chicago, IL 60606
 (312) 782-8150

FOR INFORMATION ONLY
 CONTRACT 64860

T:\16814\AS\Struct\Cadd\Pre\final\US20 Bridge 089-0082 (Pecatonica River Bridge)\000000-64799-000-000-001.dgn 05-DEC-2011 13:19