

BENCHMARK:
chiseled "□" on N.E. Headwall of SN 020-0006 Elev=696.36

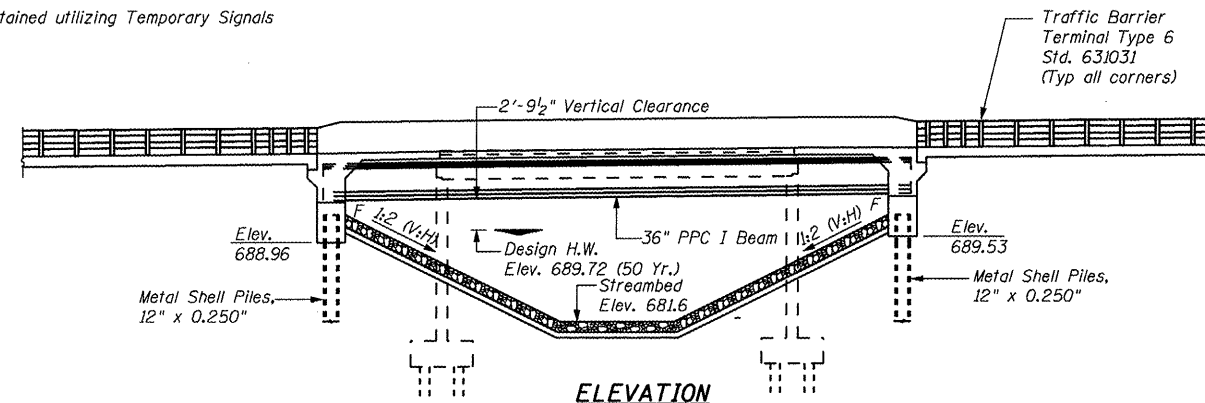
EXISTING STRUCTURE: S.N. 020-0006 to be removed. Built in 1931 as SBI 120, Section 110, at Station 738+60. Single span, Reinforced Concrete Slab, 32'-0" back to back of abutments, 39'-0" deck width. Reinforced Concrete Closed Abutments on Timber Piles. Bridge approaches to be removed.

One lane of traffic to be maintained utilizing Temporary Signals and Stage Construction.

No salvage.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	110BR	DEWITT	40	8
STA. 736+00		TO STA. 741+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
SHEET 1 OF 14 SHEETS				

CONTRACT NO. 90932



INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Stage Construction Details
- 3 Temporary Concrete Barrier for Stage Construction
- 4 Top of Slab Elevations
- 5 Deck Details
- 6 Superstructure Details
- 7 Framing Plan
- 8 36" PPC I-Beam
- 9 36" PPC I-Beam Details
- 10 Abutment Details
- 11 Bar Splicer Assembly Details
- 12 Concrete Piles
- 13-14 Soil Boring Logs

GENERAL NOTES

- 1. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60. See Special Provisions.
- 2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- 3. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- 4. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. Slip forming of the parapets is not allowed.
- 7. Saw cut grooving of the approach pavement is required. See Roadway Plan

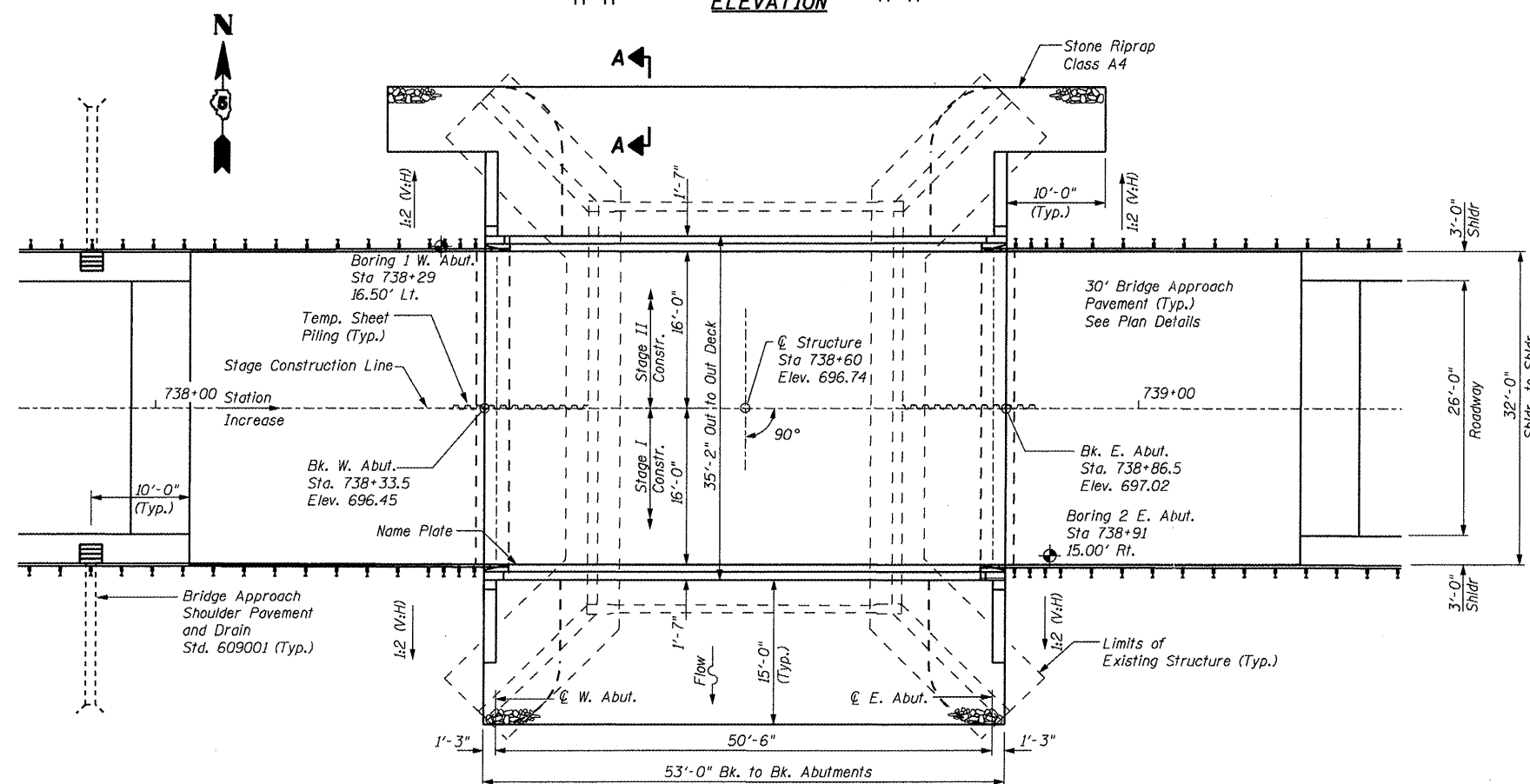
STATION 738+60
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 717 SEC. 110BR
LOADING HS20
STR. NO. 020-0061

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu.Yd.		105	105
Stone Riprap, Class A4	Sq.Yd.		415	415
Filter Fabric	Sq.Yd.		415	415
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu.Yd.		269	269
Bridge Deck Grooving	Sq.Yd.	177		177
Protective Coat	Sq.Yd.	234		234
Concrete Structures	Cu.Yd.		30.4	30.4
Concrete Superstructure	Cu.Yd.	77.3		77.3
Furnishing and Erecting Precast Prestressed Concrete I-beams, 36 inch	Foot	312		312
Reinforcement Bars, Epoxy Coated	Lb	14060	4710	18770
Furnishing Metal Shell Piles 12"x0.250"	Foot		636	636
Driving Piles	Foot		636	636
Test Pile Metal Shells	Each		1	1
Temporary Sheet Piling	Sq.Ft.		668	668
Name Plates	Each		1	1
Bar Splicers	Each	224	22	246
Geocomposite Wall Drain	Sq.Yd.		60	60
Pipe Underdrains For Structures 4"	Foot		110	110



PLAN

(For Section A-A see Sheet 2 of 14)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	688.96	689.53

SEISMIC DATA

SPC = A
A = 0.047g
S = 1.0

LOADING HS 20-44

Allow 50 Lb/Sq. Ft. for future wearing surface.

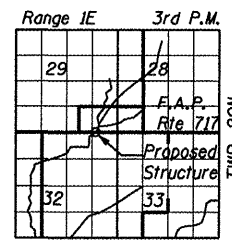
DESIGN SPECIFICATIONS

AASHTO 1996 with 1997, thru 2002 Interim Specifications

WATERWAY INFORMATION

Drainage Area = 3.80 sq mi Low Grade Elev. 694.17 @ Sta. 736+00

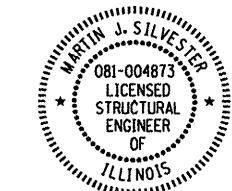
Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater Elev. - Ft.	
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	1148	195	211	689.72	0.12	.00	689.84	689.64
Base	100	1335	205	227	690.09	0.30	.08	690.39	690.17
Overtopping									
Max. Calc.	500	1788	229	263	690.90	0.74	.49	691.64	691.39



LOCATION SKETCH

APPROVED
For Structural Adequacy Only

Ralph E. Anderson (TS)
Engineer of Bridges & Structures



M. Silvester 07-14-09

MARTIN J. SILVESTER
STRUCTURAL ENGINEER
LICENSE EXP. DATE 11-30-10

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
IL. ROUTE 10 OVER UN-NAMED CREEK
FAP RTE. 717 SECTION 110BR
STA. 738+60
DEWITT COUNTY STR. No. 020-0061

SCALE: DRAWN BY LP
DATE: MAY 2009 CHECKED BY MJS

REVISIONS	
NAME	DATE

TWP. 20N
 R. 1E
 STA. 738+60
 DATE: 7/13/2009
 FILE NAME: \\s2288661-9032-981-9plan.dgn