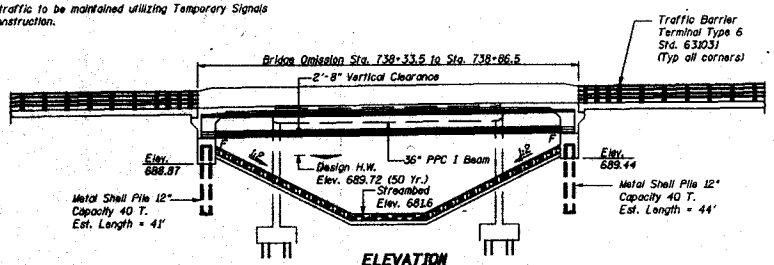
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	110BR	DEWITT	1	3
STA. 736+00		TO STA. 741+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

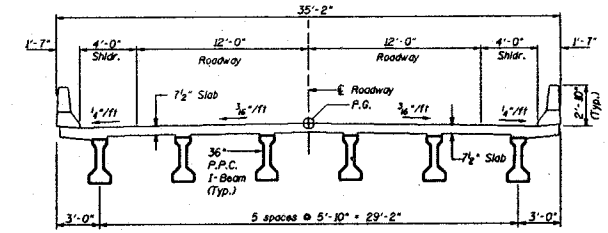
EXISTING STRUCTURE: S.N. 020-0006 to be removed. Built in 1931 as SBI 120. Section 110, at Station 738+60.
Single span, Reinforced Concrete Slab, 32'-0" back to back of abutments, 39'-0" deck width. Reinforced Concrete Closed Abutments on Timber Piles. Bridge approaches to be removed.

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

No salvage.

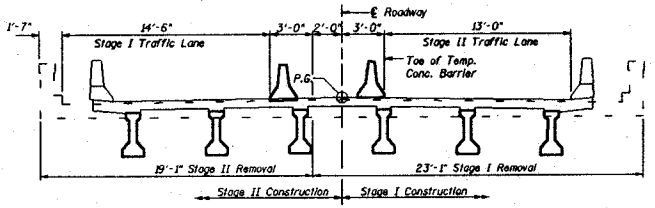


ELEVATION



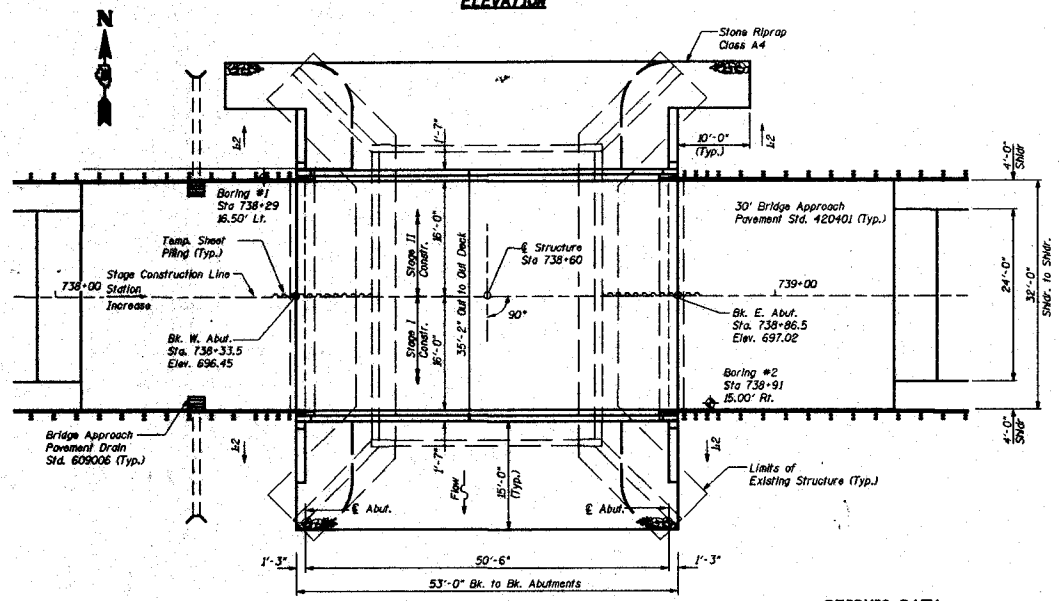
PROPOSED CROSS SECTION

(Looking East)

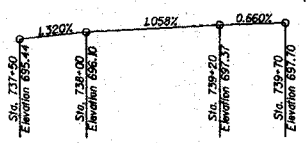


CROSS SECTION

(Stage Construction : Looking East)



PLAN



PROFILE GRADE

Along ℄ Roadway

WATERWAY INFORMATION

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

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater Elev. - Ft. Exist.	Headwater Elev. - Ft. 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

SEISMIC DATA

SPC = A
A = 0.047g
S = 1.0

DESIGN STRESSES

FIELD UNITS

f'_c = 3500 psi
f_y = 60000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'_c = 6000 psi
f'_{ci} = 5000 psi
f'_s = 270000 psi (1/2" ϕ low lax. strands)
f_{si} = 201960 psi (1/2" ϕ low lax. strands)

HIGHWAY CLASSIFICATION

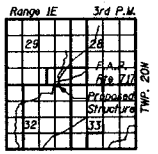
FAP Route 717
Class: Minor Arterial
A.D.T. : 1800 (1999) 2300 (2019)
D.H.V.: 225 (2019)
Design Speed: 55 mph
Posted Speed: 55 mph

LOADING HS 20-44

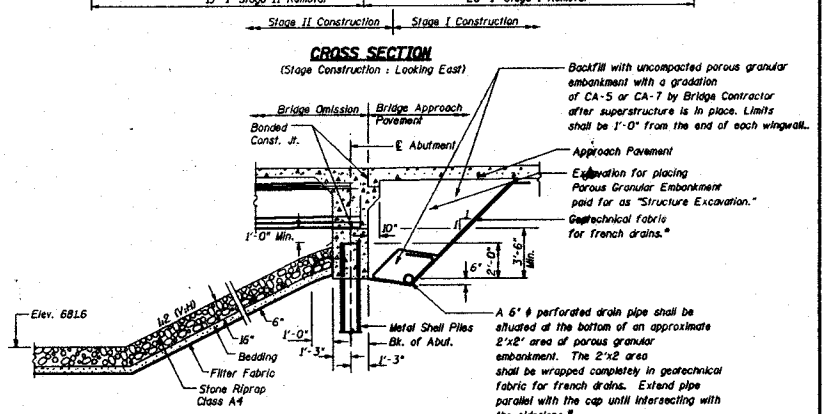
Allow 50 Lb/Sq. Ft. for future wearing surface.

DESIGN SPECIFICATIONS

AASHTO 1996 with 1997, 1998 and 1999 Interim Specifications



LOCATION SKETCH



SECTION THRU INTEGRAL ABUTMENT

(At Rt. ℄'s)

* Included in the cost of "Porous Granular Embankment."

REVISIONS NAME	DATE

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

SCALE: 1/8"=1'-0" DRAWN BY LP
DATE: 03-16-01 CHECKED BY MJS

APPROVED

MAY 14 2001

AS A BASIS FOR
PREPARATION OF DETAILED PLANS