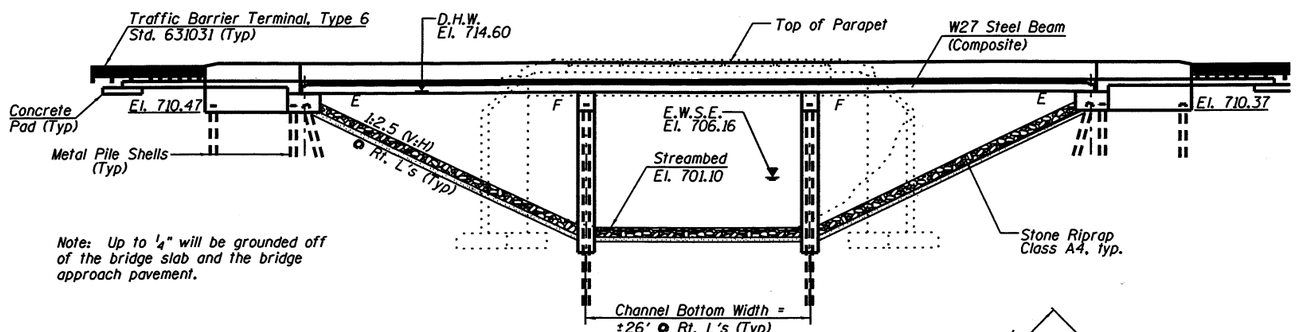
Bench Mark: 4801-01 Chiseled square on top of the Southwest wingwall of structure number 010-0062. Station 1892+67.00, 26' RT. Elevation = 717.21

Existing Structure: S.N. 010-0062 was built in 1924 as Route 1 & 10, Section 51B-15D at Station 1893+15.65 as a reinforced concrete slab bridge on transverse and thru girders and reinforced concrete closed abutments. In 1972, the structure was reconstructed as FA Route 119 (SBI119), Section 105BR03 at Station 1893+15.65 as a single span precast prestressed concrete deck beam superstructure on widened substructure. In 2008, five (5) PPC deck beams were removed and replaced as FAP 709 (US 136), Section D5 Beam Replacement 2008-1, Contract 70669. The back to back of abutments measurements is 56'-8½", the out to out width is 46'-0" and the bridge roadway width is 42'-6". The structure has a bituminous overlay and a waterproofing membrane. The structure is to be replaced using stage construction.

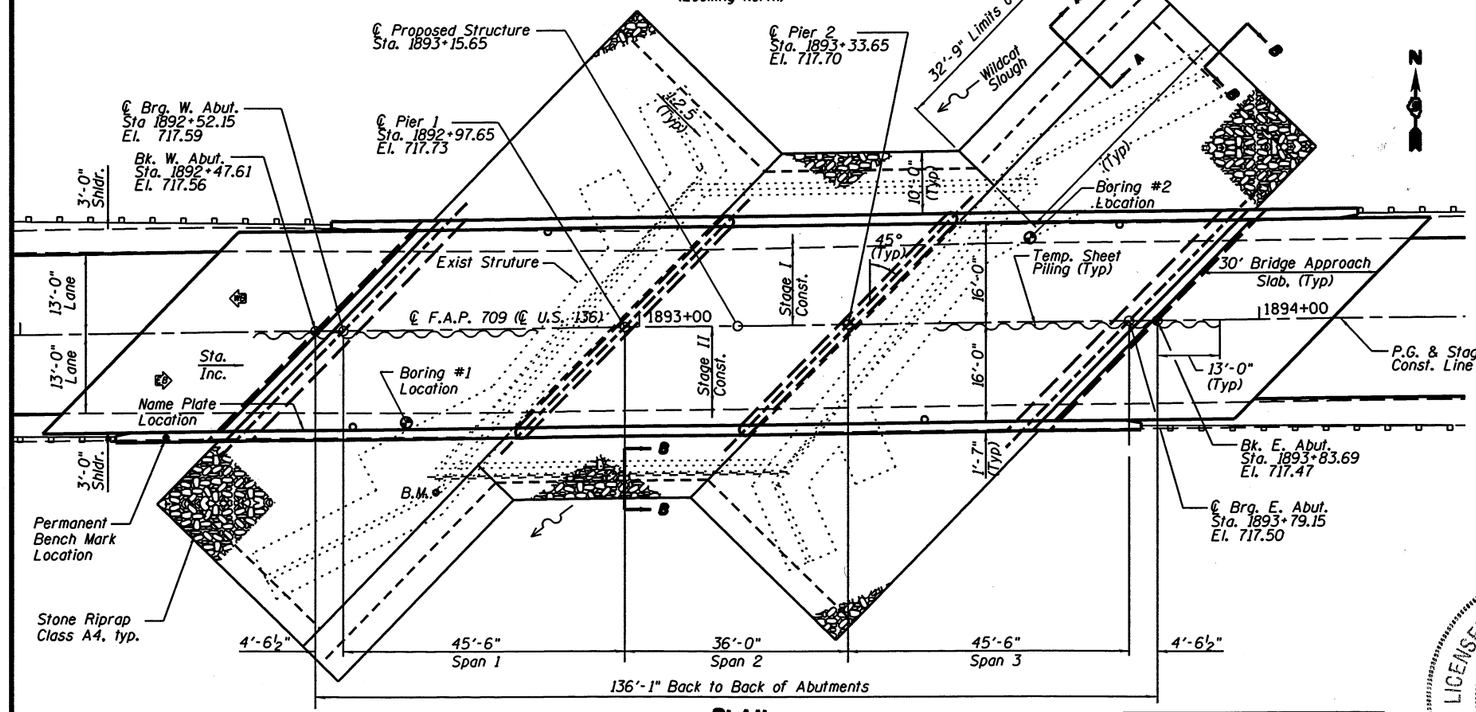
No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

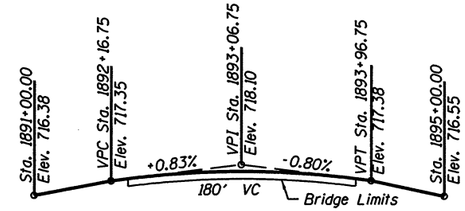


Note: Up to ¼" will be grounded off of the bridge slab and the bridge approach pavement.

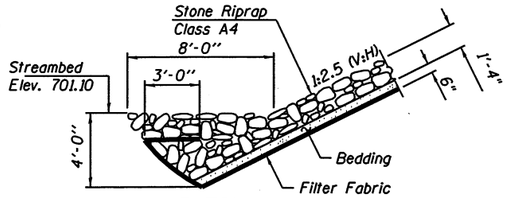
ELEVATION
(Looking North)



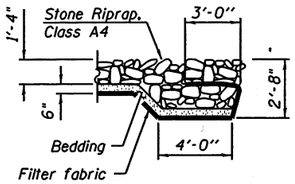
PLAN



PROFILE GRADE
(Along ℄ of Rdwy.)



SECTION A-A
(Anchor Detail)



SECTION B-B

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2009 Interims

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy= 36,000 psi (M270 Grade 36)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.13
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.21
Soil Site Class = D

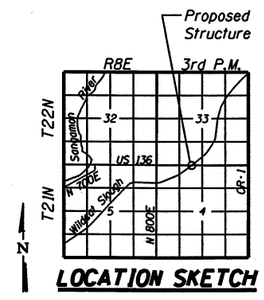
WATERWAY INFORMATION

Drainage Area = 15.9 sq. mi. Low Grade Elev. 714.49 ft ℄ Sta. 1884+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 El. Exist.	Headwater El. Prop.
	10	1433	442	674	713.8	0.2	0.1	714.0	713.9
Design	50	2282	457	705	714.6	0.5	0.2	715.1	714.8
Base	100	2657	457	705	714.9	0.5	0.2	715.4	715.1
Overtopping (Ex.)	15	1700	457	---	714.1	0.5	---	714.6	----
Overtopping (Pr.)	25	1912	---	705	714.3	---	0.2	----	714.5

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	710.25	694.1	694.1	710.25



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. ROUTE 136 OVER
WILDCAT SLOUGH
F.A.P. RTE. 709 - SEC. (105BR)BR
CHAMPAIGN COUNTY
STATION 1893+15.65
STRUCTURE NO. 010-0283

DESIGNED	JLG
CHECKED	JSP
DRAWN	CJC
CHECKED	JLG

HR
HURST-ROSCHE ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-000298

STATION 1893+15.65
BUILT 20_ BY
STATE OF ILLINOIS
F.A.P. RT. 709 SEC. (105BR)BR
LOADING HL-93
STRUCTURE NO. 010-0283

NAME PLATE
See Std. 515001

LICENSED STRUCTURAL ENGINEER
JOHN S. PERADOTTI
81-005671
JACKSONVILLE
STATE OF ILLINOIS

12/15/09
JOHN S. PERADOTTI. S.E.
ILLINOIS STRUCTURAL NO. 5671
EXPIRES: NOVEMBER 30, 2010

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24 SHEETS	709	(105BR)BR	CHAMPAIGN	55	13
		STA 1893+15.60	CONTRACT NO. 70427		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		