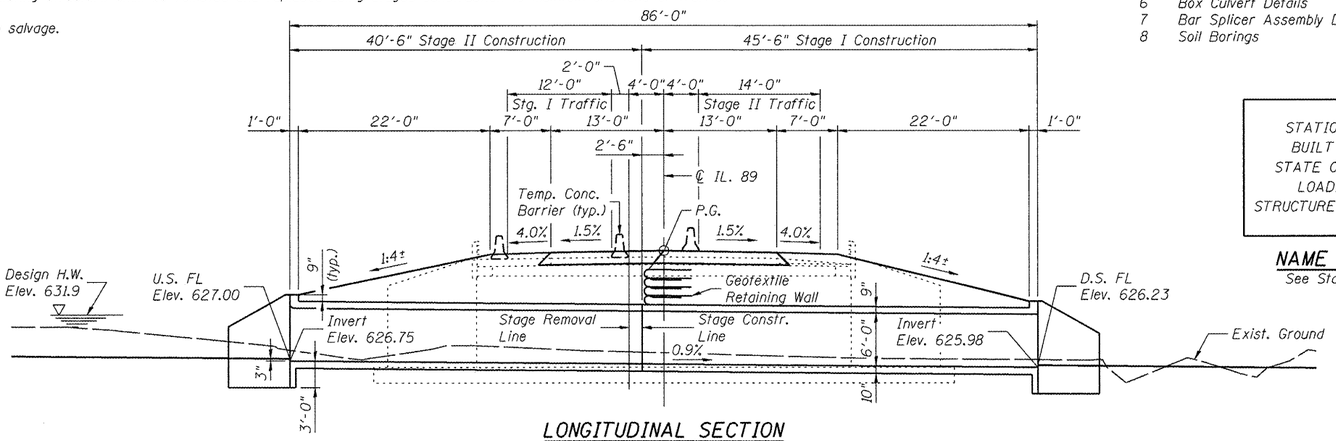
B.M. #8: Chiseled square on northwest corner of southeast wingwall of S.N. 078-0029, Sta. 203+13, 22' Lt., Elev. 638.60.

EXISTING STRUCTURE: SN 078-0029, built in 1935 as Rte. SA-3A, Section 2-B, at Sta. 203+22. Outside edges of superstructure were reconstructed in 1971 as F.A. Rte. 94, Section 2(W&RS). Existing structure is a single span concrete slab bridge, 18'-0" back-back abutments, 43'-0" out-out width, reinforced concrete closed abutments on spread footings with timber piles. A reinforced concrete slab overlay was added in 2010 as an emergency repair.

Existing structure shall be removed and replaced using staged construction to maintain one lane of traffic.

No salvage.



LONGITUDINAL SECTION

INDEX OF SHEETS

STATION 203+04
BUILT 20__ BY
STATE OF ILLINOIS
LOADING HS20
STRUCTURE NO. 078-2010

NAME PLATE
See Std. 515001

GENERAL NOTES

Precast culvert alternate is not allowed.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

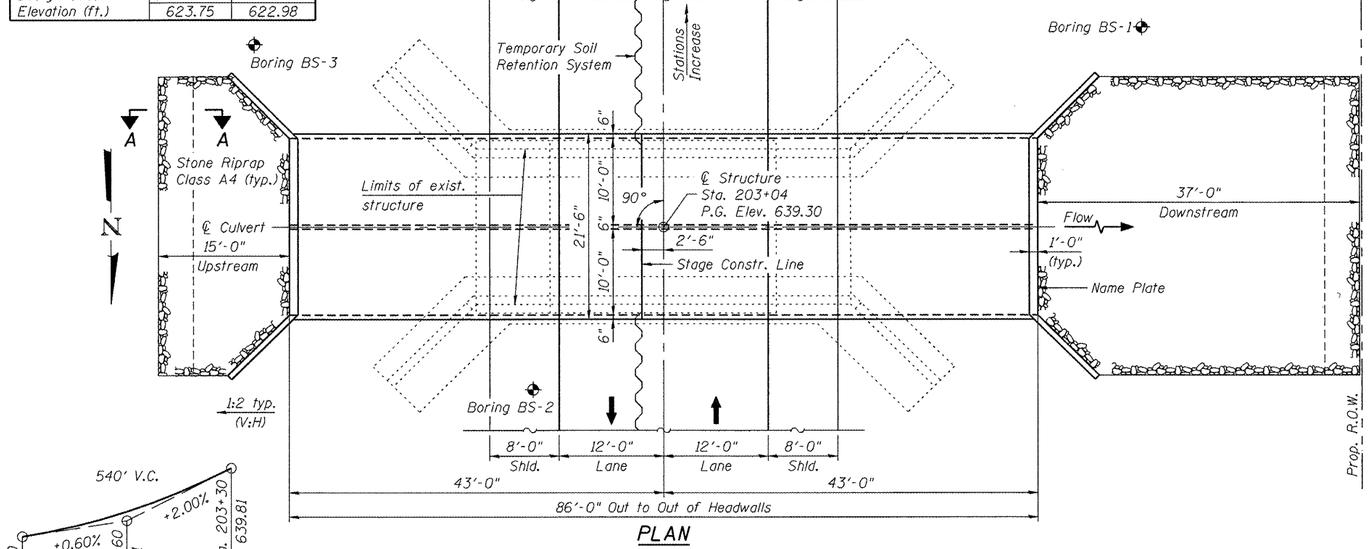
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

Structure excavation for the box culvert will not be measured or paid for separately, and the cost shall be included in other related items according to Article 502.13 of the Standard Specifications.

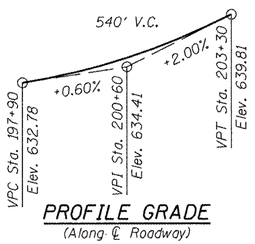
The structure excavation and backfill shall be as shown on roadway plan sheet titled "Detail of Excavation and Backfill for Box Culverts". Pay items indicated on that sheet are included in the roadway plans Summary of Quantities.

DESIGN SCOUR ELEVATION TABLE

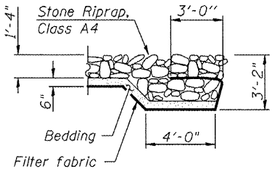
Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	623.75	622.98



PLAN



PROFILE GRADE
(Along ℄ Roadway)



SECTION A-A

WATERWAY INFORMATION

Existing Low Grade Elevation: 635.2 @ Sta. 200+80

Drainage Area = 0.865 sq. mi. Prop. Low Grade Elevation: 635.2 @ Sta. 200+80

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	342	35	88	630.7	631.0	1.0	0.3	631.7	631.3
Design	50	582	51	109	631.6	631.9	1.8	0.5	633.4	632.4
Base	100	693	57	117	632.0	632.3	2.2	0.5	634.2	632.8
Max. Calc.	500	971	70	120	632.8	633.1	3.2	0.5	636.0	633.6

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

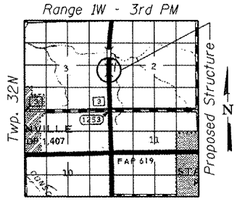
APPROVED
For Structural Adequacy Only
D. Carl Puzey (TSP)
Engineer of Bridges & Structures

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq Yd	198
Filter Fabric	Sq Yd	198
Removal Of Existing Structures No. 2	Each	1
Concrete Superstructure	Cu Yd	5.3
Reinforcement Bars	Pound	1400
Reinforcement Bars, Epoxy Coated	Pound	32560
Bar Splicers	Each	86
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	154.1
Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	17
Geotextile Retaining Wall	Sq Ft	110
Temporary Soil Retention System	Sq Ft	313

STATE OF ILLINOIS
DAVID C DEPP
081-005117
LICENSED STRUCTURAL ENGINEER

Signed: David Depp
Date: 12-12-2011
Lic. Expires: 11-30-2012



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS 89 OVER ALLFORKS CREEK
F.A.P. RTE. 698 SEC. (2) BR-1 & BR-2
PUTNAM COUNTY
STATION 203+04
STRUCTURE NO. 078-2010

FILE: J:\JOBS\10206 IL 89 Allforks Creek Ph2\2-rdoc-SN078200\078200-68571-001-gplan.dgn
SAVE DATE: 12/12/2011

FILE NAME = ...\078200-68571-001-gplan.dgn	USER NAME = DCD	DESIGNED - DCD	REVISED -
		CHECKED - LKS	REVISED -
Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE =	DRAWN - SJS/P. Ray	REVISED -
	PLOT DATE = 12/12/2011 12:08:29	CHECKED - CMV/DCD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 078-2010
SHEET NO. 1 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(2) BR-1 & BR-2	PUTNAM	71	40
	STA. 203+04	CONTRACT NO. 68571		
	ILLINOIS FED. AID PROJECT			