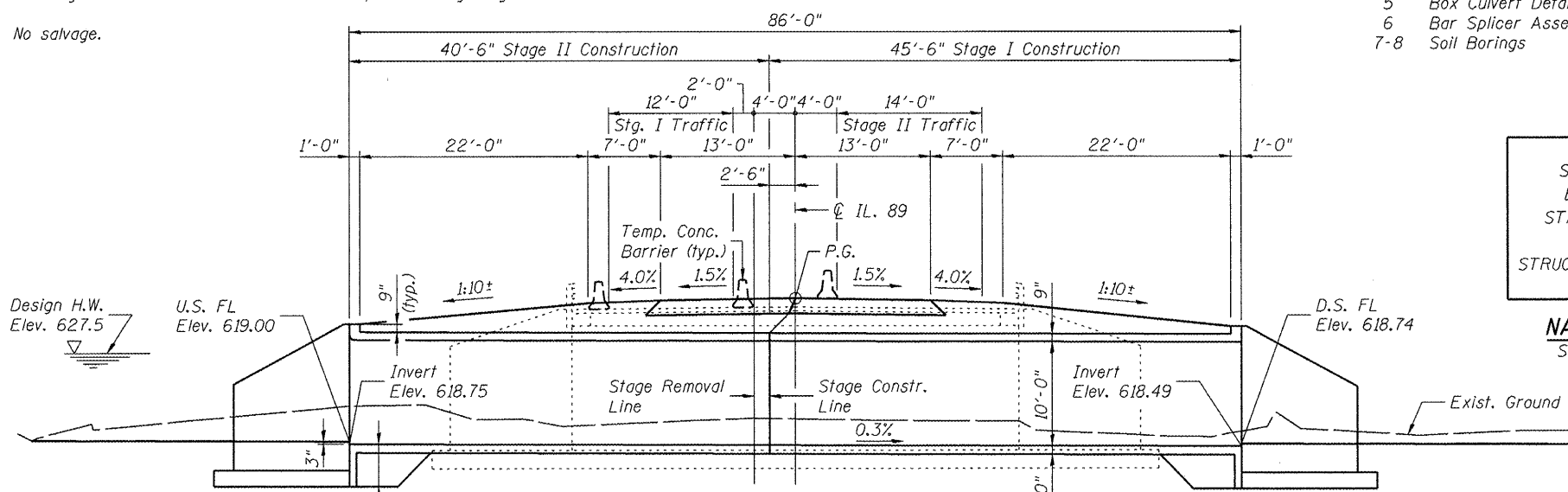


B.M. #7: Chiseled square on northwest corner of southeast wingwall of S.N. 078-0028, Sta. 196+38, 22' Lt., Elev. 631.50.

EXISTING STRUCTURE: SN 078-0028, built in 1935 as Rte. SA-3A, Section 2-B, at Sta. 196+27. 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, 22'-0" back-back abutments, 43'-0" out-out width, reinforced concrete closed abutments on spread footings with timber piles.

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

No salvage.



INDEX OF SHEETS

- 1 Gen Plan, Gen Notes, Bill of Mat'l
- 2 Stage Construction / Temp Soil Ret System
- 3 Temporary Slab Overlay
- 4 Temporary Concrete Barrier
- 5 Box Culvert Details
- 6 Bar Splicer Assembly Details
- 7-8 Soil Borings

STATION 196+22  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
LOADING HS20  
STRUCTURE NO. 078-2009

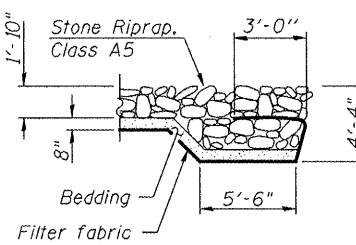
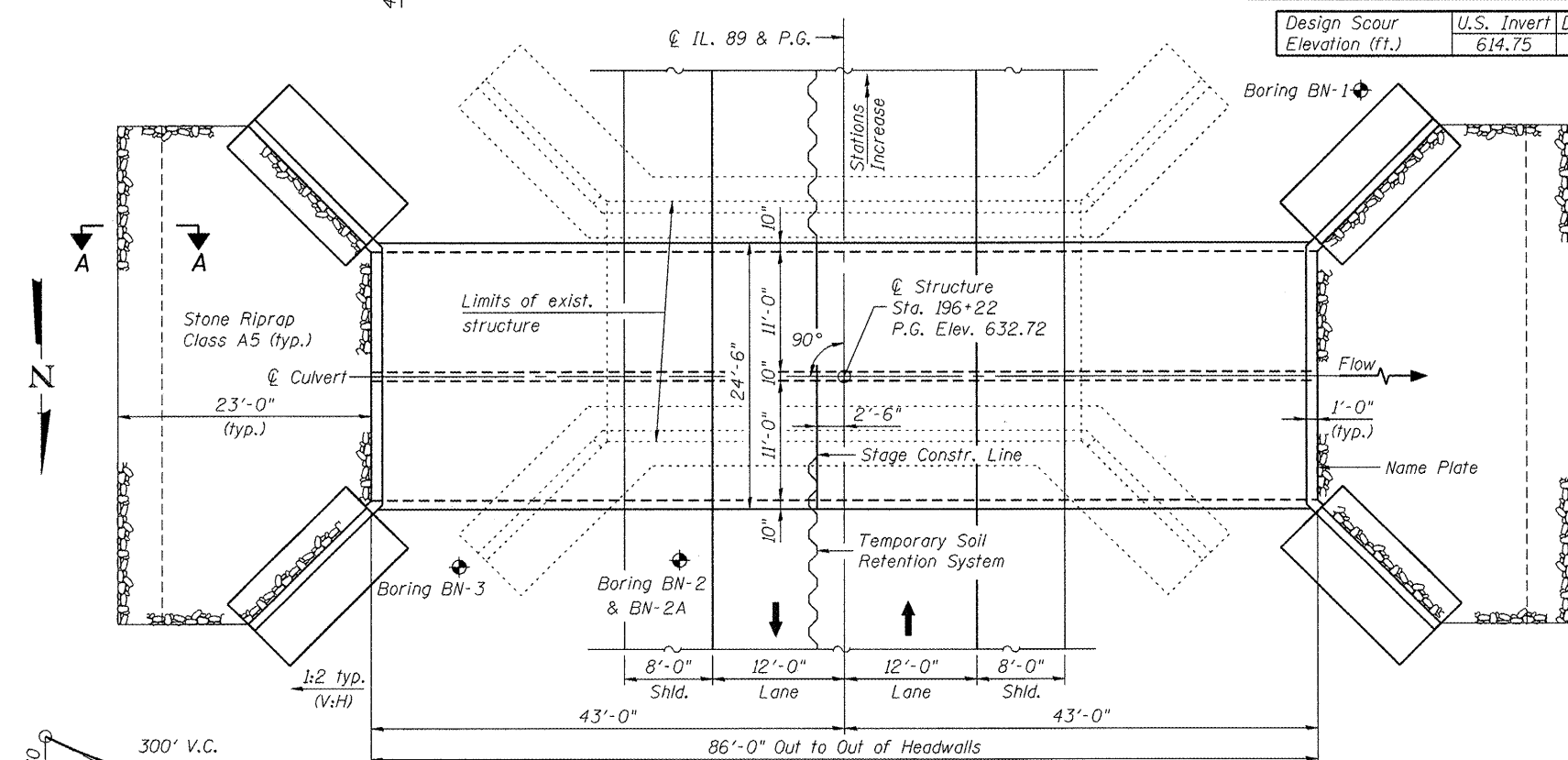
NAME PLATE  
See Std. 515001

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	614.75	614.49

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.



APPROVED  
For Structural Adequacy Only  
*David C. Depp*  
Engineer of Bridges & Structures

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq Yd	215
Filter Fabric	Sq Yd	215
Removal of Existing Structures No. 1	Each	1
Concrete Superstructure	Cu Yd	13.8
Reinforcement Bars	Pound	2720
Reinforcement Bars, Epoxy Coated	Pound	46250
Bar Splicers	Each	104
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	259.4
Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	42
Temporary Soil Retention System	Sq Ft	461



Signed: *David C. Depp*  
Date: 12-9-2011  
Lic. Expires: 11-30-2012

LOADING HS20-44  
Allow 50#/sq. ft. for future wearing surface.

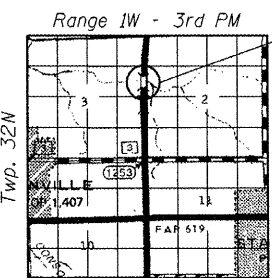
DESIGN SPECIFICATIONS

2002 AASHTO Standard  
Specifications for Highway Bridges

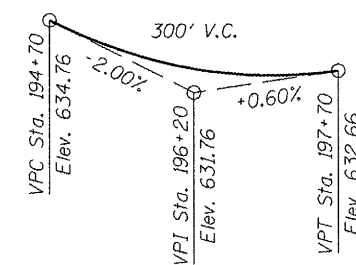
DESIGN STRESSES

FIELD UNITS

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



PROFILE GRADE  
(Along Q Roadway)



GENERAL PLAN & ELEVATION  
ILLINOIS 89 OVER ALLFORKS CREEK  
F.A.P. RTE. 698 SEC. (2) BR-1 & BR-2  
PUTNAM COUNTY  
STATION 196+22  
STRUCTURE NO. 078-2009

FILE NAME = ...0782009-68571-001-gplan.dgn  
JOHNSON, DEPP & QUISBERY  
CONSULTING ENGINEERS  
Springfield, Illinois

USER NAME = DCD  
DESIGNED - DCD  
CHECKED - LKS  
DRAWN - SJS/P. Ray  
CHECKED - DCD

DESIGNED - DCD  
CHECKED - LKS  
DRAWN - SJS/P. Ray  
CHECKED - DCD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 078-2009  
SHEET NO. 1 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(2) BR-1 & BR-2	PUTNAM	71	32
STA. 196+22		CONTRACT NO. 68571		
ILLINOIS FED. AID PROJECT				