

Benchmark: Chiseled square on northwest wingwall of existing structure. Elev. 531.91

Existing Structure: S.N. 034-0015, built in 1928 under section 113-B, SBI 95, is a single span reinforced concrete slab bridge on closed abutments with top and bottom restrained. The bridge has an overall length of 25'-5" bk. to bk. abutments and out to out width of 36'-6". Structure to be completely replaced by a reinforced concrete double box culvert.

Traffic to be maintained utilizing stage construction. No Salvage.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
 Layout of 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.
 Backfill within the limits of the paved surface to the top of culvert elevation shall be performed according to the special provision for Granular Culvert Backfill.
 Precast culvert alternate is not allowed.

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 1
F.A.P. 685	113B-3	HANCOCK	48	31	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72919

INDEX OF SHEETS

1. General Plan
2. Stage Construction Details
3. Culvert Details
4. Bar Splicer Assembly Details
5. Temporary Concrete Barrier
6. Soil Borings

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

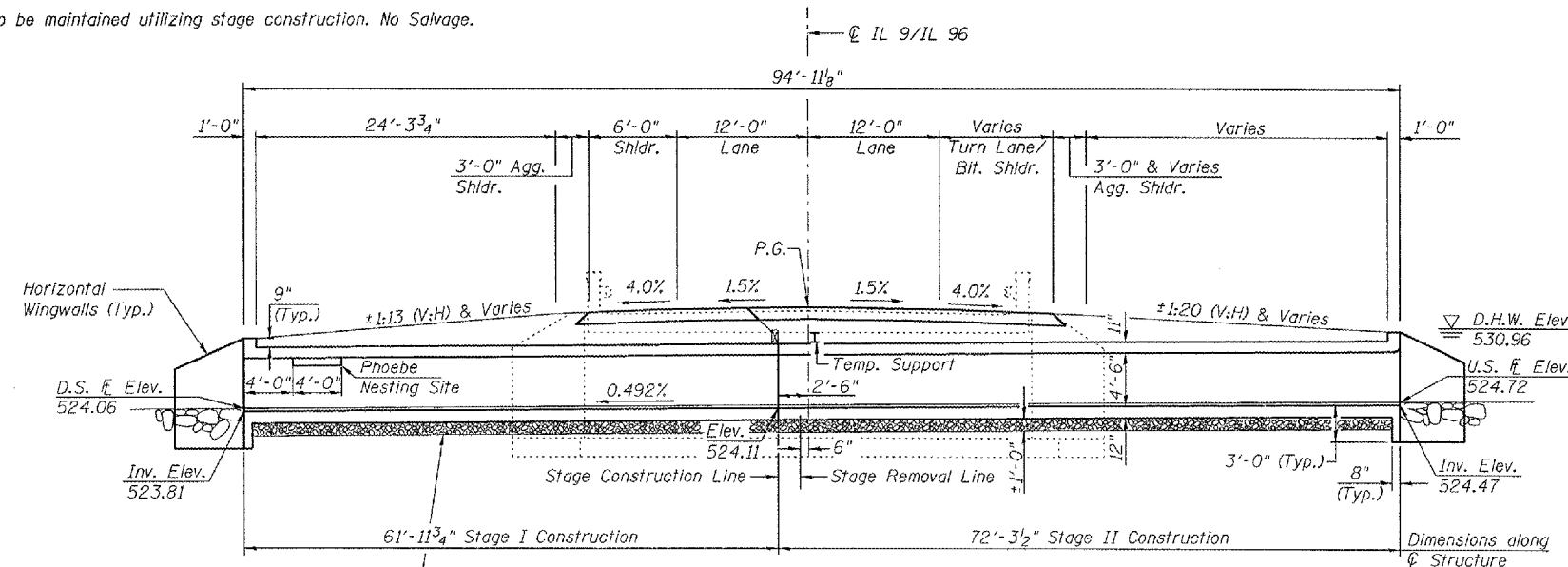
$f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HS20-44

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	99720
Bar Splicers	Each	137
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	293.5
Temporary Soil Retention System	Sq. Ft.	307
Granular Culvert Backfill	Cu. Yd.	224
Rock Fill-Foundation	Ton	185
Temporary Support System	L. Sum	1

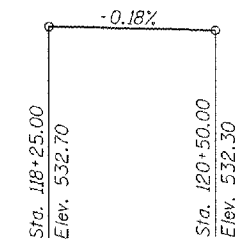
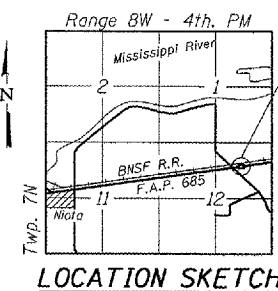


Removal and replacement of weak soils with Rock Fill-Foundation may be required beneath the culvert. The engineer will determine the required depth following excavation to plan grade. The Contractor shall brace the Rock Fill if required during excavation for stage II construction. Cost included with Rock Fill-Foundation.

LONGITUDINAL SECTION
 (Dimensions at Rt. L's to CL 9/IL 96)
 (Looking East)

STATION 118+70.44
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT. 685 SEC. 113B-3
 LOADING HS20-44
 STR. NO. 034-2520

NAME PLATE
 See Sid. 515001



PROFILE GRADE
 (Along CL 9/IL 96)

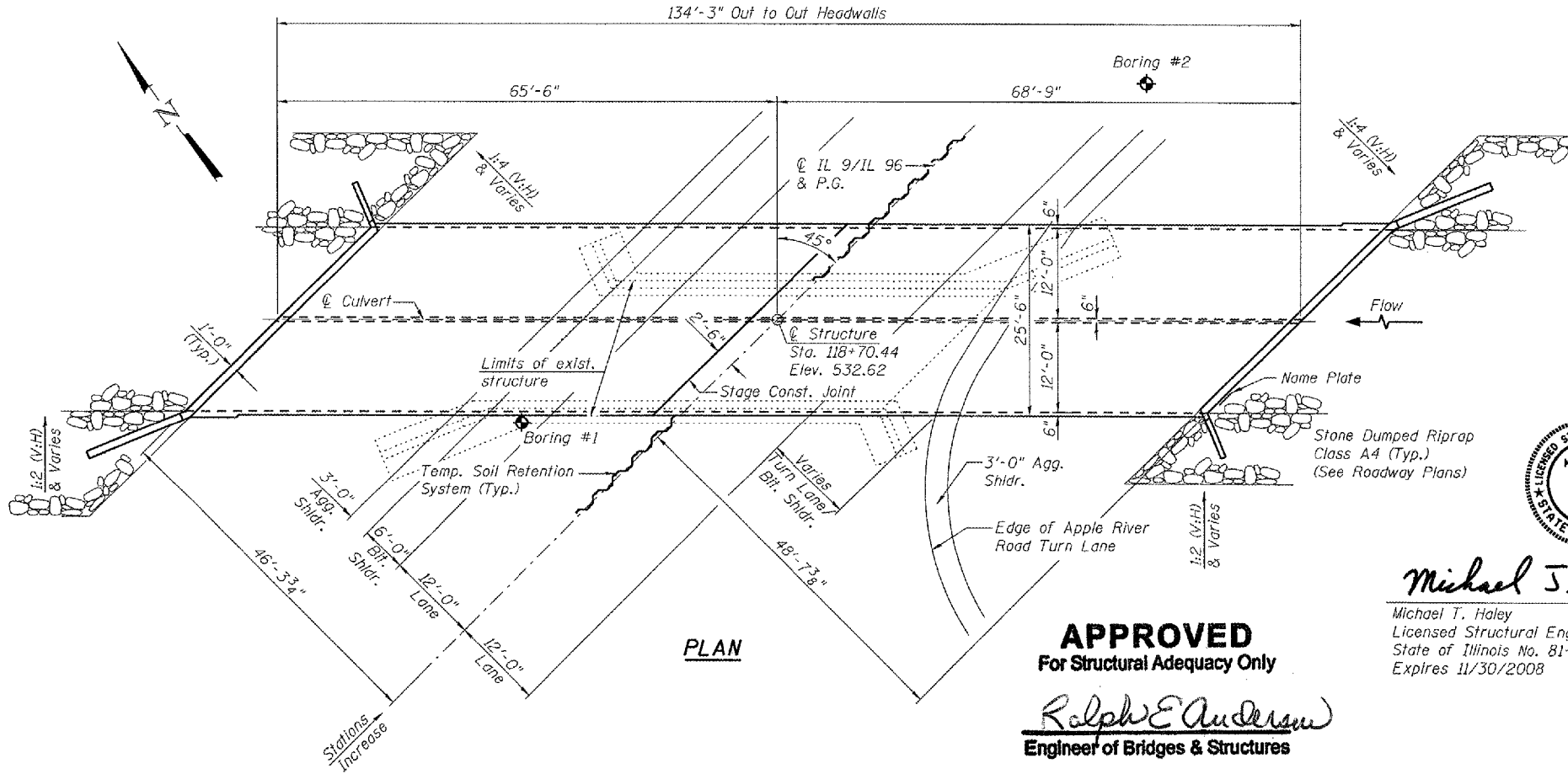
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. End	U.S. End
	520.81	521.47

WATERWAY INFORMATION

Drainage Area = 0.80 sq. mi. Low Grade Elev. 527.30 @ Sta. 110+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. Exist.	Prop. H.W.E.	Head - Ft. Exist.	Prop. Head - Ft.	Headwater El. Exist.	Prop. Headwater El.
Design	30	928	92.21	108.0	530.96	3.44	3.23	534.40	534.19
Base	50	1083	92.21	108.0	531.56	3.88	3.76	535.44	535.32
Overtopping									
Max. Calc.	100	1269	92.21	108.0	532.60	3.74	3.37	536.34	535.97



PLAN

APPROVED
 For Structural Adequacy Only

Ralph E. Anderson
 Engineer of Bridges & Structures

Michael J. Haley 8-21-2007
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2008



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
 IL ROUTE 9/IL ROUTE 96
 OVER SIDE ROAD DITCH
 F.A.P. ROUTE 685 - SECTION 113B-3
 HANCOCK COUNTY
 STA. 118+70.44
 STRUCTURE NO. 034-2520

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