

Bench Mark: Bench Mark #100 Railroad spike in the west face of power pole in N.E. quadrant of intersection 1600th. North Elevation 672.72

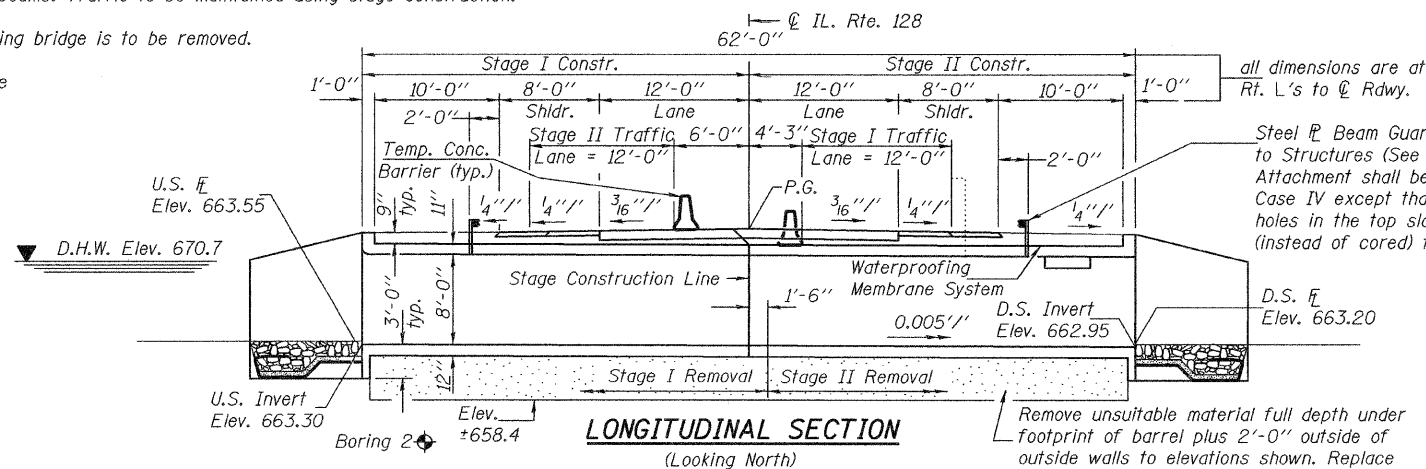
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 770	#	MOULTRIE	46	25	9 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #74183 *116BR1B-1 & 116BR1BR		

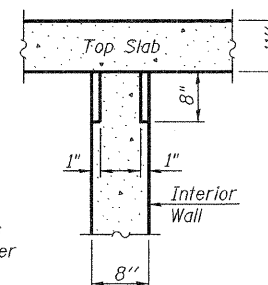
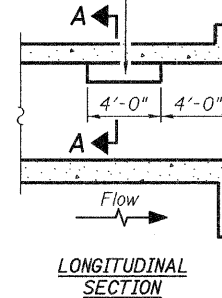
Existing Structure: 070-0018, Built 1928 as SBI Route 169, Section 116BR at Station 843+61.00 as 1-span reinforced concrete slab bridge with closed abutments on untreated timber piles. Superstructure replaced in 1980 with PPC deck beams and bituminous wearing surface. 34'-11" face to face abutments, 33'-0" out to out beams. Traffic to be maintained using stage construction.

The existing bridge is to be removed.

No salvage



Notch formed by rough finished board attached to and removed with formwork, each interior wall. (Do not chamfer).



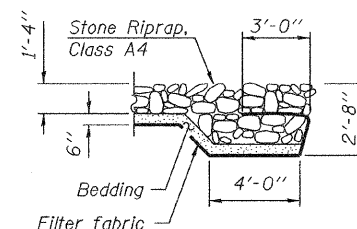
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
Reinforcement bars designated (E) shall be epoxy coated.  
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.  
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
Precast alternate is not allowed.

INDEX OF SHEETS

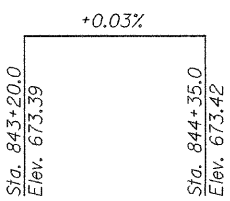
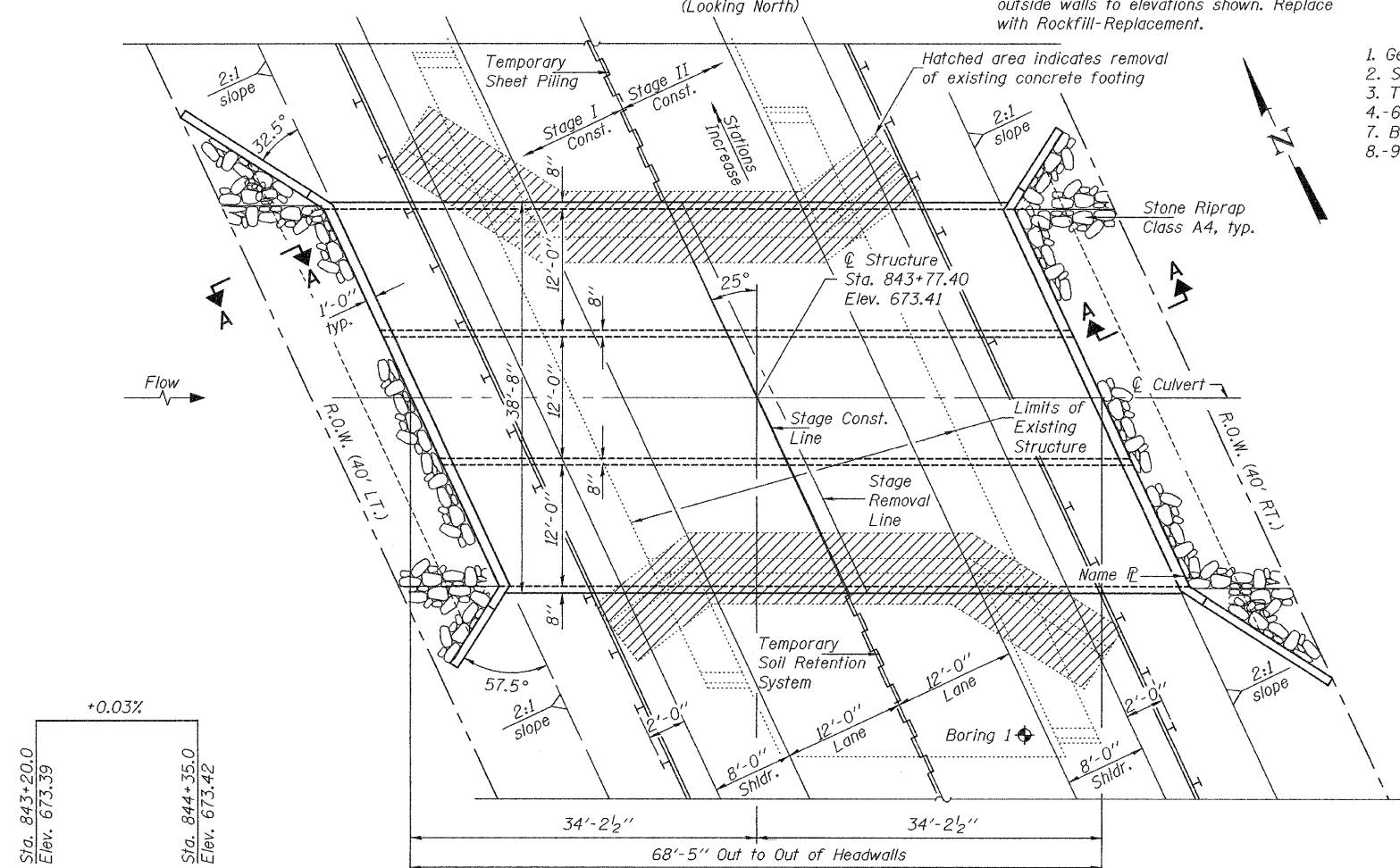
1. General Plan & Elevation
2. Stage Construction Details
3. Temporary Concrete Barrier
- 4.-6. Culvert Details
7. Bar Splicer Assembly Details
- 8.-9. Boring Logs

PHOEBE NESTING  
SITE DETAILS  
(Downstream End Only)



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Rockfill-Replacement	Ton	790
Stone Riprap, Class A4	Sq. Yd.	102
Filter Fabric	Sq. Yd.	102
Removal of Existing Structures	Each	1
Removal & Disposal of Unsuitable Material	Cu. Yd.	395
Concrete Box Culverts	Cu. Yd.	270
Reinforcement Bars, Epoxy Coated	Pound	65,610
Bar Splicers	Each	220
Name Plates	Each	1
Waterproofing Membrane System	Sq. Yd.	285
Temporary Sheet Piling	Sq. Ft.	725
Temporary Soil Retention System	Sq. Ft.	330
Steel R Beam Guardrail, Attached to Structures	Foot	74



PROFILE GRADE  
(along  $\bar{C}$  F.A.P. Rte. 770)

DESIGNED	Jay D. Edwards
CHECKED	W.D. Collins
DRAWN	W.D. Collins
CHECKED	JDE / NRB

September 16, 2008  
EXAMINED  
PASSED  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES



Expires Nov. 30, 2008

WATERWAY INFORMATION

Proposed Low Grade Elev. 673.32 @ Sta. 843+00  
Existing Low Grade Elev. 673.32 @ Sta. 843+00

Drainage Area = 5.2 sq. mi.		Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.		
Flood	Freq. Yr.	Q C.F.S.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	805	171	241	670.0	0.3	0.2	670.3	670.2	
Base	50	1313	193	266	670.7	0.7	0.6	671.4	671.3	
Overtopping	100	1541	203	277	671.0	0.9	0.8	671.9	671.8	
Max. Calc.	500	2100	219	299	671.6	1.5	1.4	673.1	673.0	

STATION 843+77.40  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RT. 770 SECTION 116BR1B-1 & 116BR1BR  
LOADING HS20  
STRUCTURE NO. 070-2019

NAME PLATE  
See Std. 515001

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

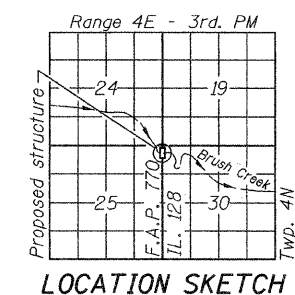
DESIGN SPECIFICATIONS  
2002 AASHTO

DESIGN STRESSES  
FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	660.30	659.95



GENERAL PLAN & ELEVATION  
IL. RTE. 128 OVER BRUSH CREEK  
F.A.P. RTE. 770 -  
SEC. 116BR1B-1 & 116BR1BR  
MOULTRIE COUNTY  
STATION 843+77.40  
STRUCTURE NO. 070-2019