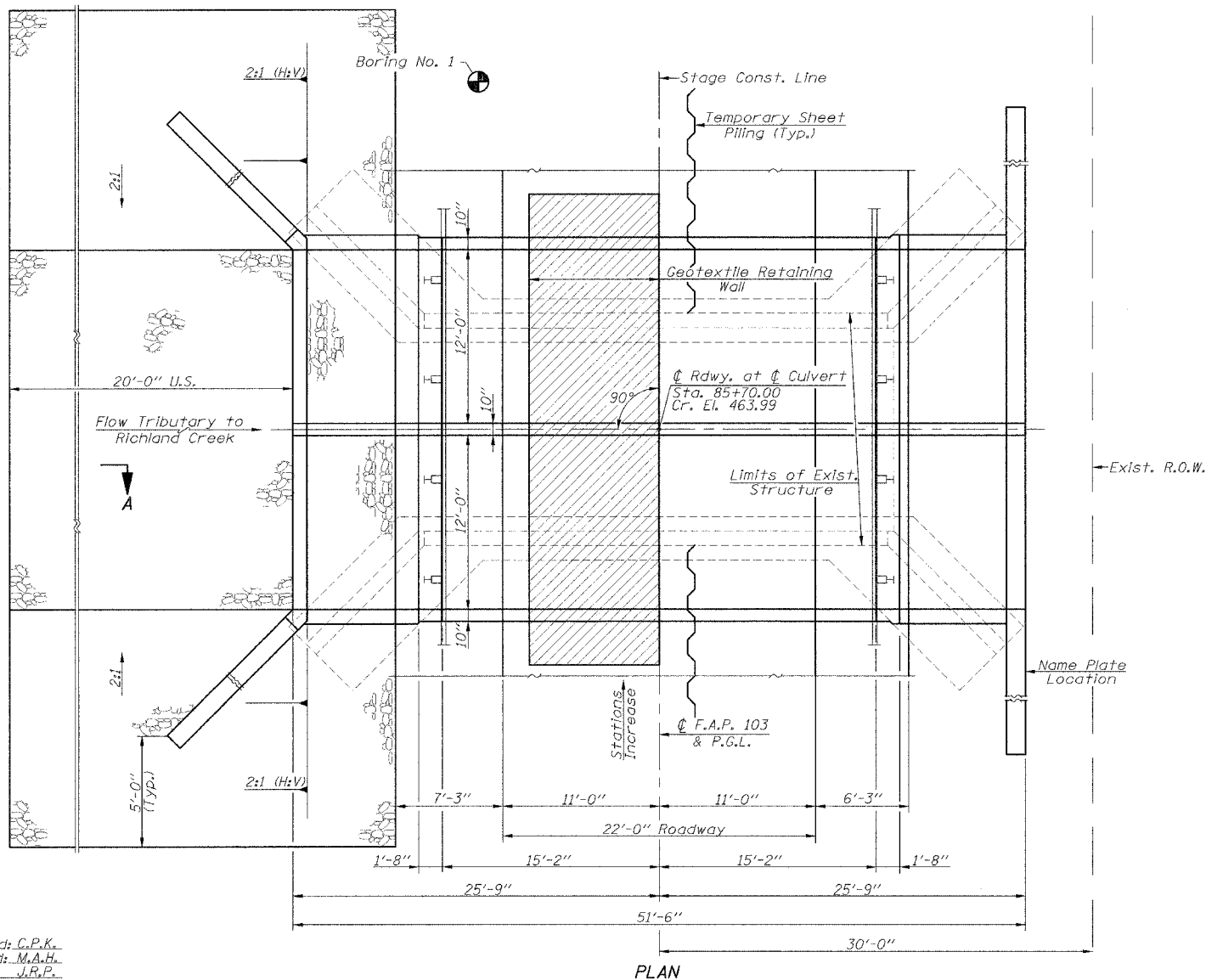
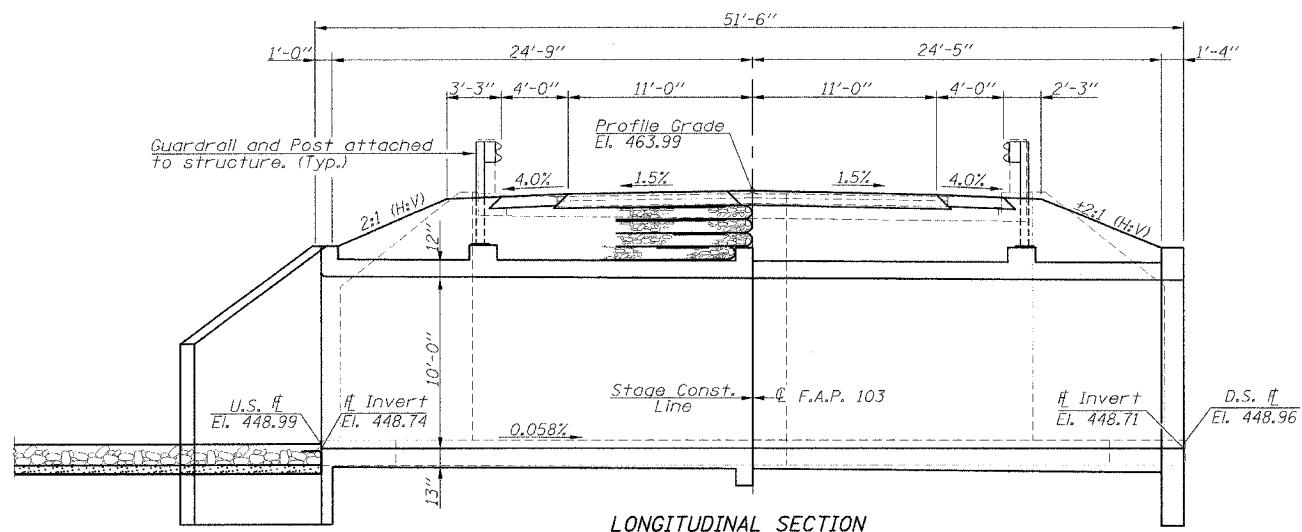


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 1
F.A.P. 103	27-3BR	ST. CLAIR	22	14	OF 9 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

CONTRACT NO. 76411

Existing Structure: Single Span Reinforced Concrete Slab Bridge on Closed Reinforced Concrete Abutments with Reinforced Concrete Wingwalls. $\pm 16'-0"$ Bk.-Bk. Abutments, $\pm 32'-2"$ Out-Out. Deck, Concrete Railing. 0° Skew. Traffic to be maintained utilizing Stage Construction. Existing Structure No. 082-0402. No salvage.
Benchmark: Chiseled "□" on top of Southwest Wingwall Sta. 85+62.5 16' Lt. El. 463.44



TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Stone Riprap, Class A5	Sq. Yd.	187
Filter Fabric	Sq. Yd.	231
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	34610
Temporary Sheet Piling	Sq. Ft.	1962
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	207.4
Bar Splicers	Each	144
Steel Plate Beam Guardrail Attached to Structures	Foot	53
Geotextile Retaining Wall	Sq. Ft.	101

WATERWAY INFORMATION

Drainage Area = 3.78 Sq. Mi. Low Grade Elev. = 463.75 @ Sta. 80+70

Flood	Freq. Yr.	Opening Sq. Ft.		** Nat. H.W.E.	Head - ft.		Headwater EL		
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Design	50	1820	164	240	462.69	2.59	1.05	465.28	463.74
Base	100	2104	164	240	463.41	2.42	1.37	465.83	464.78
Exist. Overtopping	17	1380	156	240	461.60	2.15		463.75	
Prop. Overtopping	50	1820	156	240	462.70		1.05	463.75	
Max. Calc.	500	2792	164	240	465.07	3.60	0.80	468.67	465.87

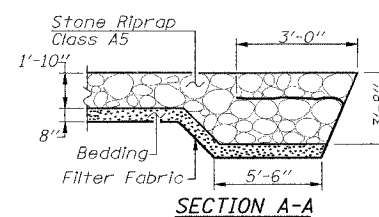
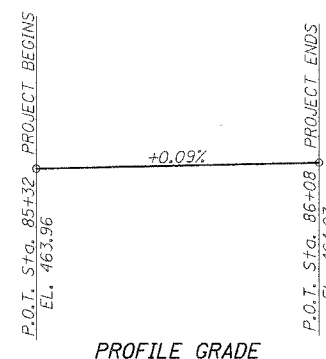
DESIGN SPECIFICATIONS
2002 A.A.S.H.T.O. Specifications.

LOADING HS 20-44
Allow 50 lb/ft² for Future Wearing Surface.

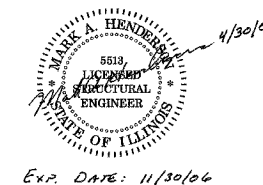
DESIGN STRESSES
FIELD UNITS
f_c = 3500 psi
f_y = 60000 psi (Reinf.)

NOTES

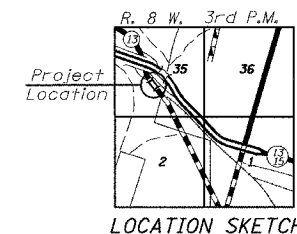
- Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage 1 Removal.
- Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M31, M42 or M53, Grade 60.
- For backfilling and embankment, see Standard Specifications.
- A pre-cast culvert alternate is not allowed.
- The layout of the stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
- All construction joints shall be bonded.
- Exposed edges shall have a $\frac{3}{4}"$ chamfer.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



STA. 85+70.00
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RTE. 103 SECTION 27-3BR
LOADING HS 20
STR. NO. 082-2042
NAME PLATE
(Standard 515001)



GENERAL PLAN & ELEVATION
F.A.P. ROUTE 103 (OLD IL. ROUTE 13)
OVER TRIBUTARY TO RICHLAND CREEK
SECTION 27-3BR
ST. CLAIR COUNTY
STA. 85+70.00
S.N. 082-2042

Designed: C.P.K.
Checked: M.A.H.
Drawn: J.R.P.
Checked: M.A.H.