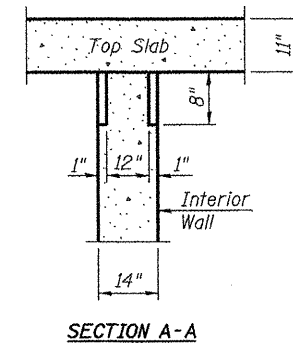
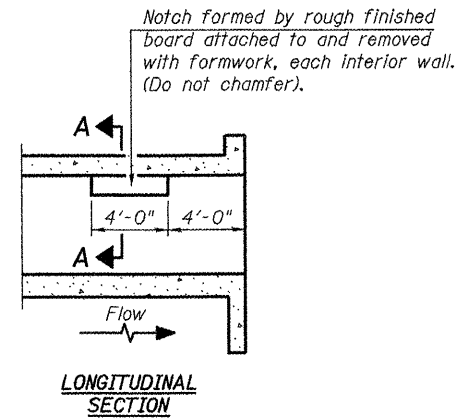
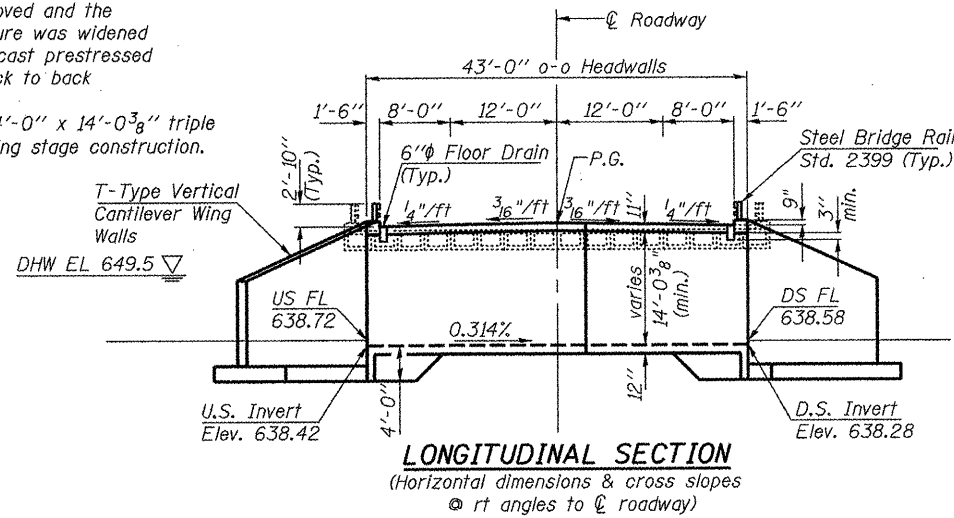


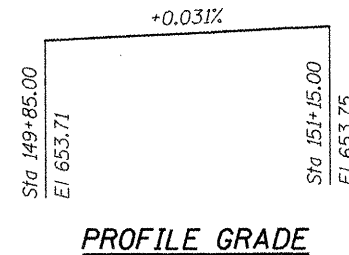
Benchmark: Chiseled "□" on top of S.E. Wingwall, Elev. 654.01

Existing Structure: 021-0021 Sta 150+57 built 1928 as SBI 121, Section 145 B the reinforced concrete deck girder bridge was removed and the superstructure was reconstructed and the substructure was widened in 1959. The existing structure is a single span precast prestressed concrete deck beam bridge on closed abutments. Back to back abutment length is 43'-6".
The Contractor shall remove and replace it with a 14'-0" x 14'-0" triple barrel box culvert. Traffic is to be maintained utilizing stage construction.

No salvage.

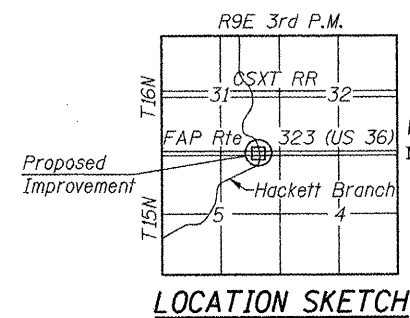


PHOEBE NESTING
SITE DETAILS
(Downstream End Only)



APPROVED
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures



ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 1
FAP 323	145BR-1	DOUGLAS	39 25	10 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 70393

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 GR 60 (IL Modified). See Special Provisions. All construction joints shall be bonded. Exposed edges shall have standard 3/4" chamfer unless otherwise noted. Reinforcement Bars designated (E) shall be epoxy coated. See Roadway Plans for Porous Granular Backfill details and quantity. Precast Alternate not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	39120
Reinforcement Bars, Epoxy Coated	Pound	23000
Name Plates	Each	1
Bar Splicers	Each	343
Bridge Deck Grooving	Sq. Yd.	204
Protective Coat	Sq. Yd.	239
Floor Drains	Each	6
Concrete Box Culverts	Cu. Yd.	380.5
Steel Railing Type 2399	Foot	93
Temporary Soil Retention System	Sq. Ft.	488

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

INDEX OF SHEETS

SHEET NO.	TITLE
1	General Plan and Elevation
2	Stage Construction Details
3	Temporary Concrete Barrier
4	Top Slab Details
5	Bottom Slab Details
6-7	Culvert Details
8	Steel Railing, Type 2399
9	Bar Splicer Assembly Details
10	Boring Logs

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation Ft.	Upstream	Downstream
	634.72	634.58

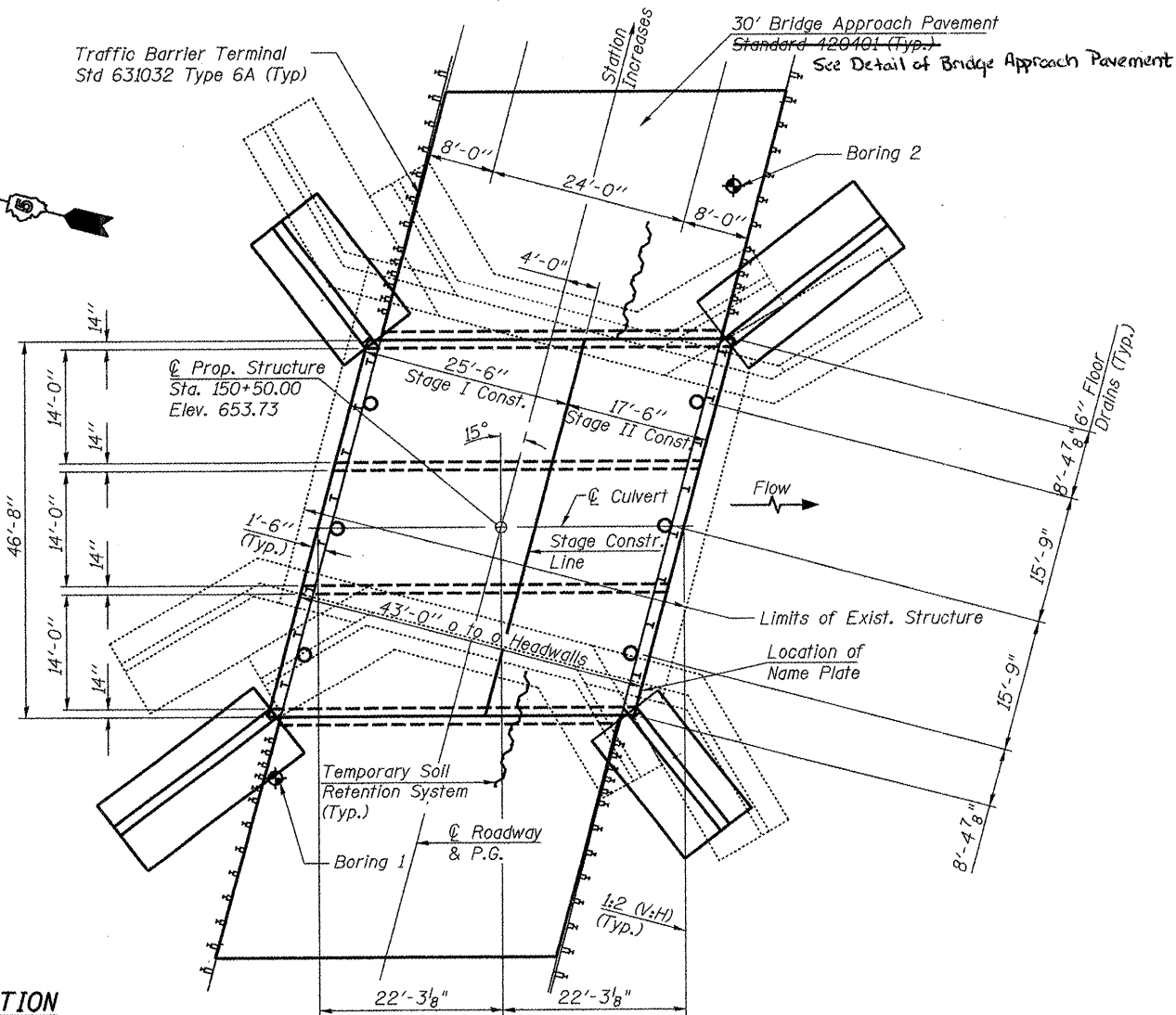
STATION 150+50.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 323 SEC. 145 BR-1
LOADING HS20
STRUCTURE NO. 021-2026

NAME PLATE
See Std. 515001

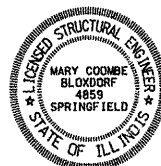
WATERWAY INFORMATION

Drainage Area = 18.4 Sq. Mi. Low Grade Elev. 653.70 @ Sta. 150+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	1325	335	411	648.5	0.2	0.2	648.7	648.7	
Base	50	2084	375	453	649.5	0.5	0.5	650.0	650.0	
Overtopping	100	2415	392	470	649.9	0.6	0.6	650.5	650.5	
Max. Calc.	500	3211	419	499	650.6	1.7	0.9	652.3	651.5	



PLAN



Mary Coombe Bloxdorf
Illinois Structural No. 4859
Expires: 11/30/08
Date: 6/29/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: GENERAL PLAN & ELEVATION

PROJECT: US 36 OVER HACKETT BRANCH, FAP RTE 323 SECTION 145 BR-1, DOUGLAS COUNTY, STATION 150+50, STRUCTURE NUMBER 021-2026

PROJECT NO. 03020
SCALE: AS SHOWN
DATE: 06/05/07
DRAWN BY: TFG
CHECKED BY: CME/KS/MCB
DRAWING NO. 1

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

OF 10 SHTS