

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 of 9 SHEETS
FAP 721	114BR-2	DEWITT	64	29	
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 70014

INDEX OF SHEETS

1. General Plan and Longitudinal Section
2. Stage Construction Details
3. Culvert Details
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5. Bar Splicer Assembly Details
6. Temporary Conc. Barrier for Stage Const.
7. Steel Bridge Rail Curb Mounted (2399)
8. Soil Boring Logs
9. Soil Boring Logs

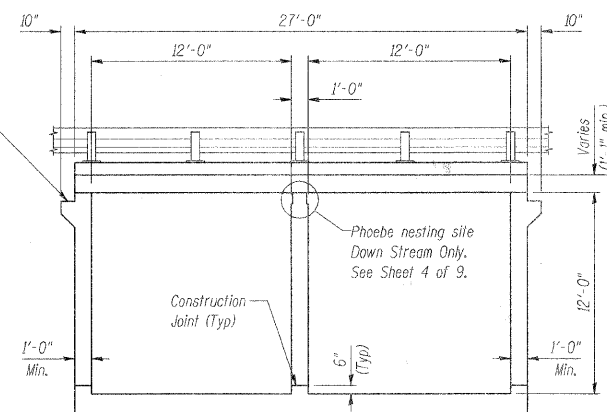
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Temporary Soil Retention System	Sq. Ft.	336
Concrete Box Culverts	Cu. Yd.	208.4
Reinforcement Bars	Pound	29240
Reinforcement Bars, Epoxy Coated	Pound	9590
Bar Splicers	Each	252
Name Plates	Each	1
Bridge Deck Grooving	Sq. Yd.	96
Steel <del>Bridge Rail</del> Railing, Type 2399	Foot	54
Protective Coat	Sq. Yd.	109

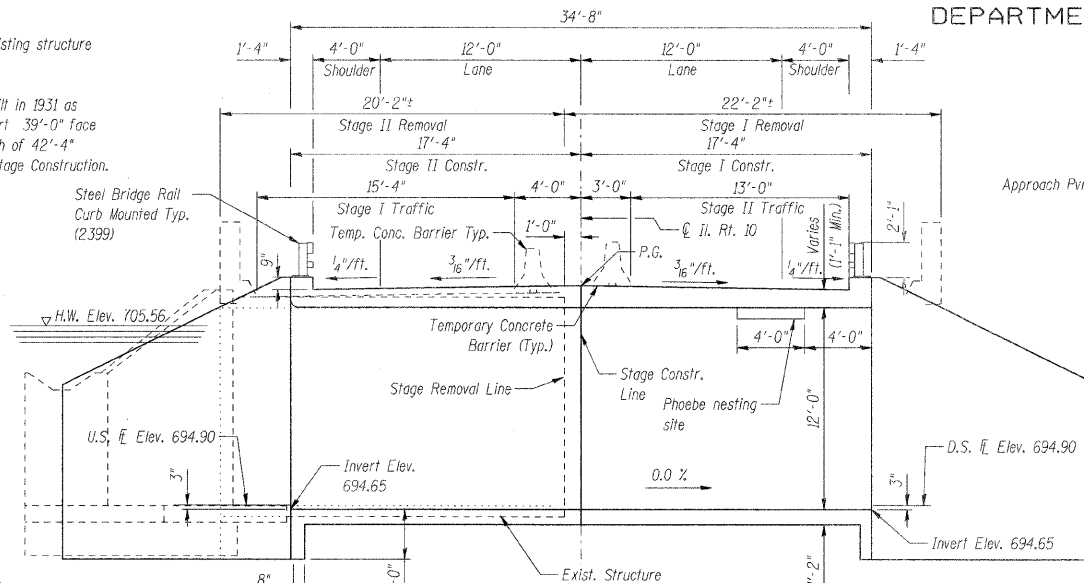
WATERWAY INFORMATION

Drainage Area = 12.06 sq. mi. Low Grade Elev. 707.97 @ Sta. 673+93.4 Max. Rec. H.W.E. = Unk.						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop. Headwater El.
Design	50	1294	200	255	705.56	0.54
Base	100	1481	207	263	705.90	0.74
Overlapping					706.64	706.34
Max. Calc.	500	1926	215	277	706.46	1.30
					707.76	707.33

SECTION THRU BARREL



LONGITUDINAL SECTION



STATION 673+93.40  
BUILT 20 -- BY  
STATE OF ILLINOIS  
FAP RTE. 721 SEC. 114BR-2  
LOADING HS20  
STR. NO. 020-2010

NAME PLATE  
See Std. 515001

DESIGN STRESSES

FIELD UNITS  
 $f_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 4.7% g  
Site Coefficient (S) = 1.5

LOADING HS20-44

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

DESIGN SPECIFICATIONS  
2002 AASHTO

PROFILE GRADE  
(along roadway)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ~~ASTM A 615~~ ~~ASTM A 615 Grade 60~~ ~~ASTM A 706 (IL MODIFIED)~~ or ~~60~~ ~~See Special Provisions~~

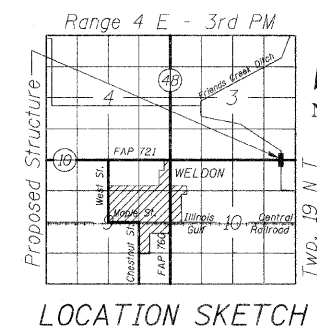
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Precast culvert alternate is not allowed.

Exposed edges shall have a 3/4" chamfer unless otherwise noted.

All construction joints shall be bonded.

D.S. = Down Stream  
U.S. = Up Stream



APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

PLANS PREPARED BY:

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*Michael Dallas* 4/28/04  
Illinois Structural No. 081-005084  
Exp. 11/30/04

DESIGNED	BWB
CHECKED	MAA
DRAWN	PJP
CHECKED	BSC

PLAN

