

EXISTING STRUCTURE: S.N. 090-2501, Built in 1924 under S.B.I. Rte. 9, Section 7 as a double 9'x6' cast in place box culvert. The culvert is not on a skew, and the length of both barrels is 30'. The roadway at this location is on tangent, and the culvert is located in a sag vertical curve. Existing culvert to be removed and replaced. No Salvage.

BENCH MARK: Set Chiseled "□" on N. Headwall of S.N. 090-2501. Elev.=710.08

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
FAU 6758	7-BR	TAZEWELL	21	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
3 SHEETS

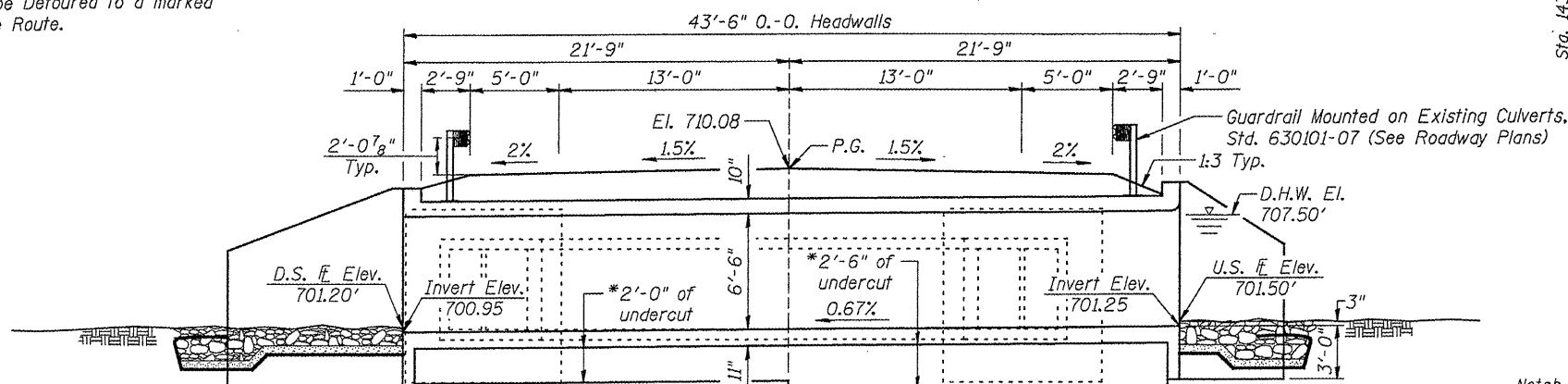
Contract # 68784

WATERWAY INFORMATION

Drainage Area = 0.5 Sq. Mi. Low Grade Elev. = 710.24 (Exist.) @ Sta. 145+00
Low Grade Elev. = 710.73 (Prop.) @ Sta. 145+00

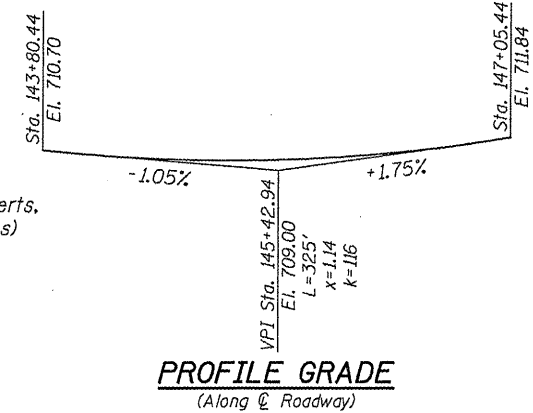
Flood	Freq. Yr.	Q C.F.S.	Opening Exist. Prop.	Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
	10	467	88 116	706.80	1.30 1.00	708.10	707.80
Design	50	794	118 136	707.50	1.70 1.30	709.20	708.80
Base	100	916	118 146	707.80	2.00 1.40	709.80	709.20
Overtopping	200	900	118	707.90	2.20	710.10	707.90
Max. Calc.	500	1101		160	2.50 1.70	710.80	710.00

DURING CONSTRUCTION: Traffic will be Detoured to a marked State Route.



LONGITUDINAL SECTION

(Dimensions @ Rt. <'s to Roadway)
* See Structural Sheet 2 of 3 for Cross Section view of backfill limits.
@ IL Rte. 98

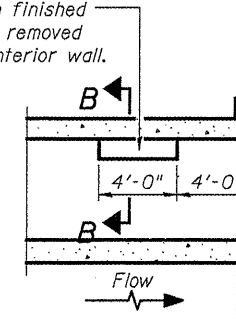


PROFILE GRADE
(Along @ Roadway)

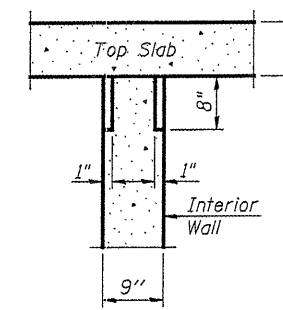
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	698.25	697.95

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



LONGITUDINAL SECTION



SECTION B-B

APPROVED
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

(Downstream End Only)

DESIGN SPECIFICATIONS

Design in Accordance with 2002 AASHTO Standard Specifications - 17th ed.

DESIGN STRESSES

FIELD UNITS

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

LOADING HS-20-44

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

BILL OF MATERIAL - CULVERT

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	104.7
Reinforcement Bars	Pound	18,080
Name Plates	Each	1
Stone Riprap, Class A4	Sq. Yd.	83
Filter Fabric	Sq. Yd.	83
Removal of Existing Structures	Each	1

GENERAL NOTES:

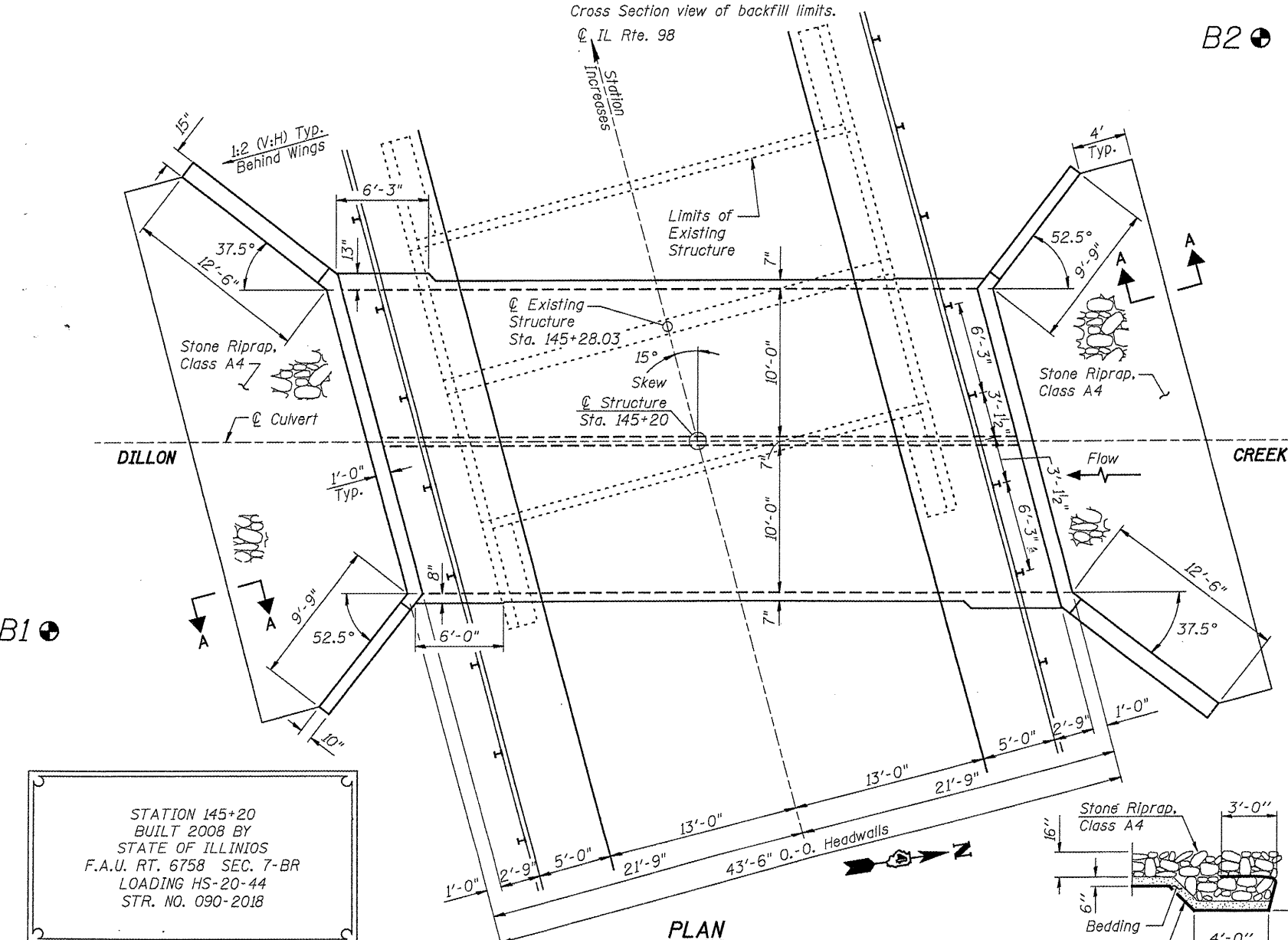
Layout of Slope Protection System may be varied to suit ground conditions in the field as directed by the Engineer.

Reinforcement Bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.

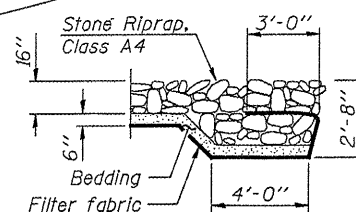
All exposed concrete edges shall be chamfered 3/4" unless otherwise noted.

Undercut Excavation & Backfill for Undercut Excavation along with Porous Granular Backfill along sides of Culvert is included in Roadway Plans.

Precast Culvert Alternate is not allowed.



PLAN



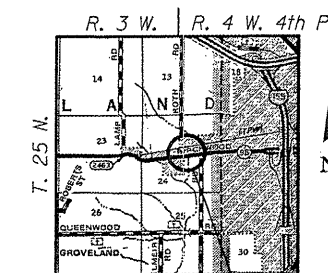
SECTION A-A

STATION 145+20
BUILT 2008 BY
STATE OF ILLINOIS
F.A.U. RT. 6758 SEC. 7-BR
LOADING HS-20-44
STR. NO. 090-2018

SECTION A-A
Refer to Sta. 2113



Brian K. Converse
DATE: 5/12/2008
EXPIRES 11/30/08



PROPOSED BRIDGE LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 98 OVER DILLON CREEK
F.A.U. ROUTE 6758 - SEC. 7-BR
TAZEWELL COUNTY
STATION 145+20 STRUCTURE NO. 090-2018**

WILLET, HOFMANN & ASSOCIATES, INC.
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Environmental - Architecture

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Designed By: B. K. Converse
Date: 4/08
Checked By: M. A. Small
Date: 4/08
Drawn By: R. D. Allen
Date: 4/08

WHA # 1223D07