

Bench Mark: Chiseled "□" in center of North Headwall of 18"x36" box culvert, 24' Left of Station 78+70, Elev. 434.50.

Existing Structure: S.N. 097-0025 built in 1927 as S.B.I. Route 140, Sec. 109 at Sta. 74+70. The structure is a single span concrete slab bridge on closed abutments with timber piles. The structure length is 30'-10" bk.-to-bk. of abutments, measured along the centerline of roadway. The width is 42'-2" out-to-out deck, measured perpendicular to the centerline of roadway. The contractor shall remove and replace with a 12'x9' CIP double box culvert. Traffic shall be maintained utilizing stage construction.

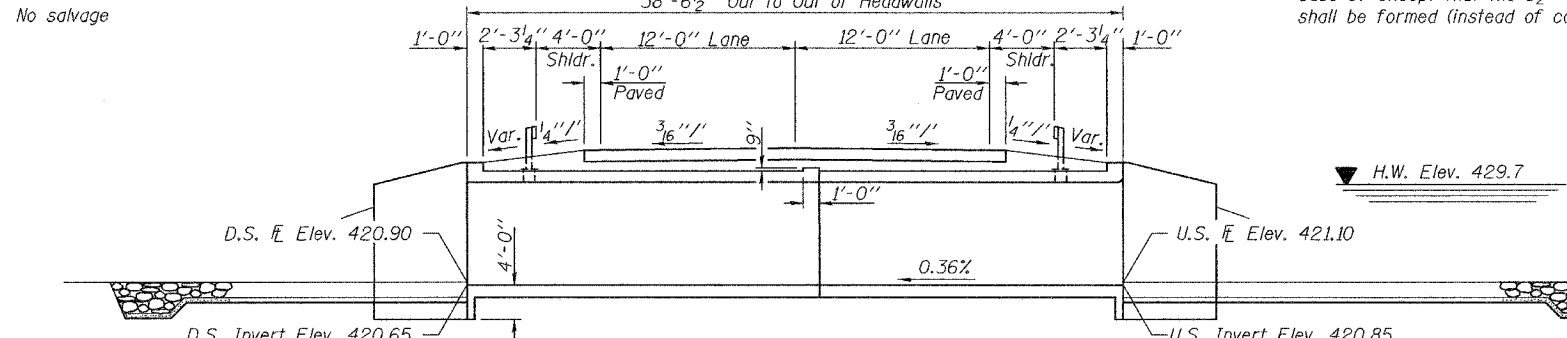
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note: Steel Plate Beam Guard Rail, attached to Structures (See Std. 630101). Attachment shall be according to Case IV except that the 1/2" φ holes in the top slab shall be formed (instead of cored) for the threaded rods.

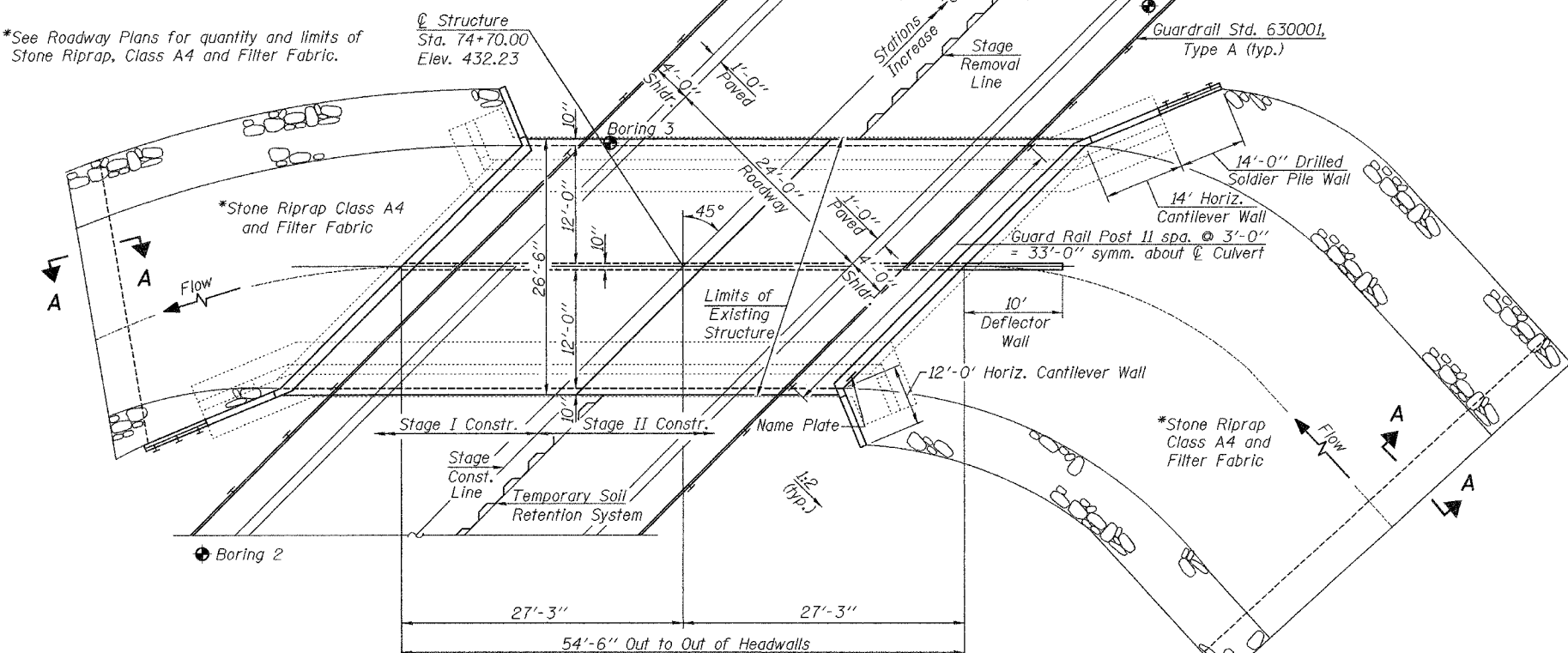
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 328	109 BR-1	WHITE	21	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
12 SHEETS

Contract #94434



LONGITUDINAL SECTION
(Looking South)
(Dimensions @ Rt. L's to C Rdw.)



PLAN

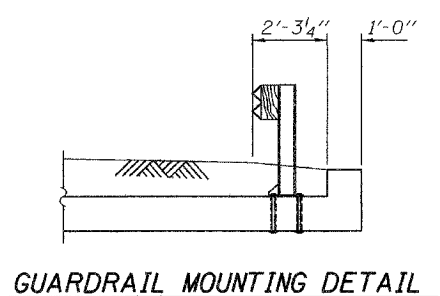
Sta. 73+00	Elev. 432.40	Sta. 74+00	Elev. 432.30	Sta. 74+50	Elev. 432.23	Sta. 75+00	Elev. 432.22	Sta. 75+50	Elev. 432.32	Sta. 76+00	Elev. 432.34
------------	--------------	------------	--------------	------------	--------------	------------	--------------	------------	--------------	------------	--------------

PROFILE GRADE
(along C roadway)

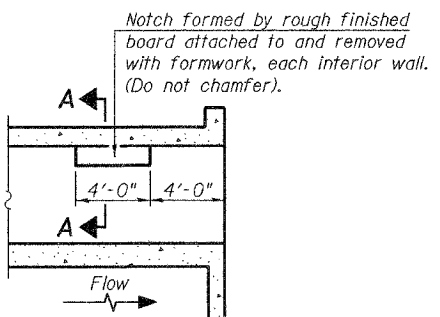
WATERWAY INFORMATION

Drainage Area = 1.78 Sq. Mi. (E) Low Grade Elev. 432.22 @ Sta. 75+00 (P) Low Grade Elev. 432.30 @ Sta. 74+00

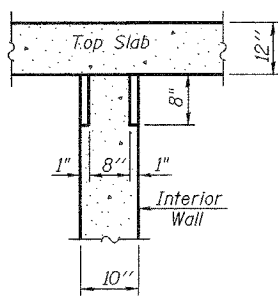
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	573	122	197	429.1	0.9	0.5	430.0	429.6
Base	50	850	134	211	429.7	1.1	0.7	430.8	430.4
Overtopping	100	967	136	214	429.8	1.3	0.8	431.1	430.6
Max. Calc.	500	1240	137	216	430.0	2.0	1.1	432.0	431.1



GUARDRAIL MOUNTING DETAIL
(Std. 630101-04, Case IV)



LONGITUDINAL SECTION

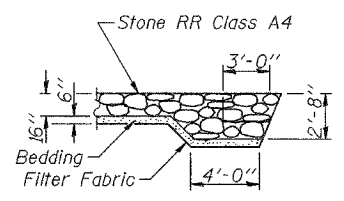


SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

STATION 74+70.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 328 SECTION 109B-1
LOADING HS-20
STR. NO. 097-2012

NAME PLATE
See Std. 515001



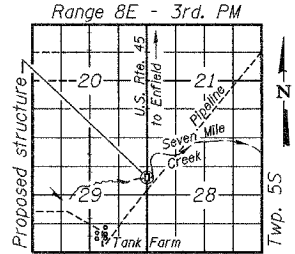
SECTION A-A

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

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications

DESIGN STRESSES

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



LOCATION SKETCH

GENERAL PLAN
U.S. ROUTE 45 OVER
SEVEN MILE CREEK
F.A.P. ROUTE 328 - SECTION 109B-1
WHITE COUNTY
STATION 74+70.00
STRUCTURE NO. 097-2012

DESIGNED: Patrick M. Potho
CHECKED: R. Sommer
DRAWN: R. Sommer
CHECKED: pmp/PRC

EXAMINED: Thomas J. Smith
PASSED: Ralph E. Adams

November 10 2005

STATE OF ILLINOIS
ENGINEER OF BRIDGE DESIGN
081-004625
ENGINEER OF BRIDGES AND STRUCTURES

EXPIRES 11-30-2006