APPROVED

MAR 03 2003

AS A BASIS FOR PREPARATION OF DETAILED PLANS

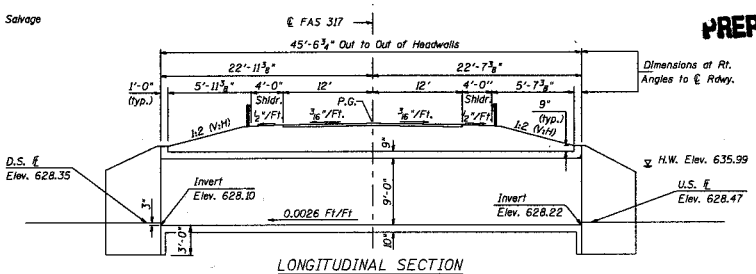
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 317	36-BR	IROQUOIS		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
1 SHEETS

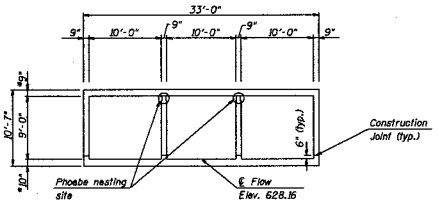
B.M. Top of N.W. Wingwall
Chis. Sq. Elev. 641.724

Existing Structure No. 038-0040 built as SBI Rte 25 Sec. 36 BY in 1952 is a two span continuous bridge with an 11" R.C. Slab. 43'-0" bk. to bk. abutments. 2 Spans @ 20'-0" with closed abutments. 35'-0" f. to f. of curb and 38'-4" o. to o. of deck.
Structure to be replaced with a triple box culvert.
Traffic to be maintained utilizing stage construction

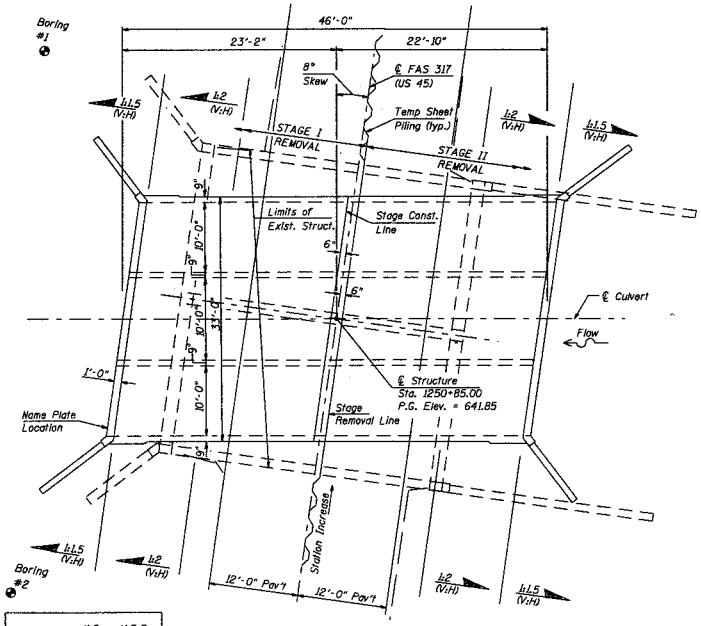
No Salvage



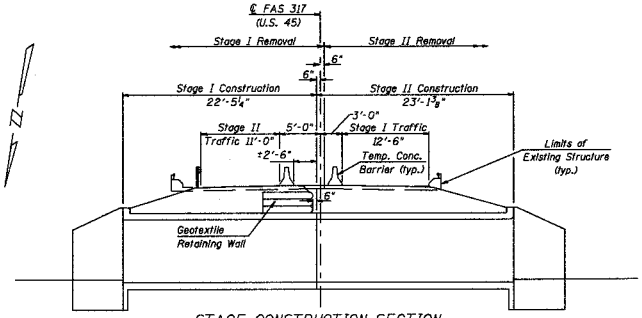
LONGITUDINAL SECTION



SECTION THRU BARREL
(Looking West)
* Slab thickness may be refined in final design

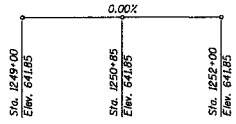


PLAN

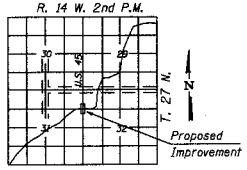


STAGE CONSTRUCTION SECTION
Dimensions at Rt. Angles to ℄ Roadway

NOTES:
Bracing the existing abutments might be necessary prior to removing the existing bridge superstructure.



PROFILE GRADE FAS 317
(along ℄ roadway)



LOCATION SKETCH

HIGHWAY CLASSIFICATION

F.A.S Route 317 (U.S. Route 45)
Class: Major Collector (Rural)
ADT: 2050 (2002) 2450 (2012)
DHV: 257 (2002) 307 (2012)
Design Speed: 55 mph
Posted Speed: 55 mph

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

LOADING HS20-44

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

DESIGN STRESSES

f'_c = 3,500 psi (Concrete)
f_y = 60,000 psi (Reinforcement)

WATERWAY INFORMATION

Drainage Area = 2.8 sq. mi. Low Grade Elev. 641.85 @ Sta. 1250+85.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	*Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	386	180	232	635.99	0.0	0.07	635.99	636.06
Base	100	434	191	239	636.22	0.0	0.10	636.22	636.32
Overtopping		NA							
Max. Calc.	500	544	208	252	636.65	0.03	0.10	636.68	636.75

* Upstream face of culvert

DESIGNED	K.S. - M.E.B.
CHECKED	G.R. - R.K.M.
DRAWN	J.T.C.
CHECKED	G.R.

GENERAL PLAN & ELEVATION
F.A.S. 317 (U.S. RTE 45)
SECTION 36-BR
OVER TRIBUTARY TO SPRING CREEK
IROQUOIS COUNTY
STATION 1250+85.00
STRUCTURE NO. 038-2015

0/DM-76/038-2015/rw01/514.dgn