

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. FAP 824	SECTION *	COUNTY COLES	SHEET NO. 52	TOTAL SHEETS 35	SHEET NO. 1 9 SHEETS
FED. ROAD DIST. NO.		BILLINGS	FED. AID PROJECT *U6-2, 19X-2)RS-1, 19B, 19BR		

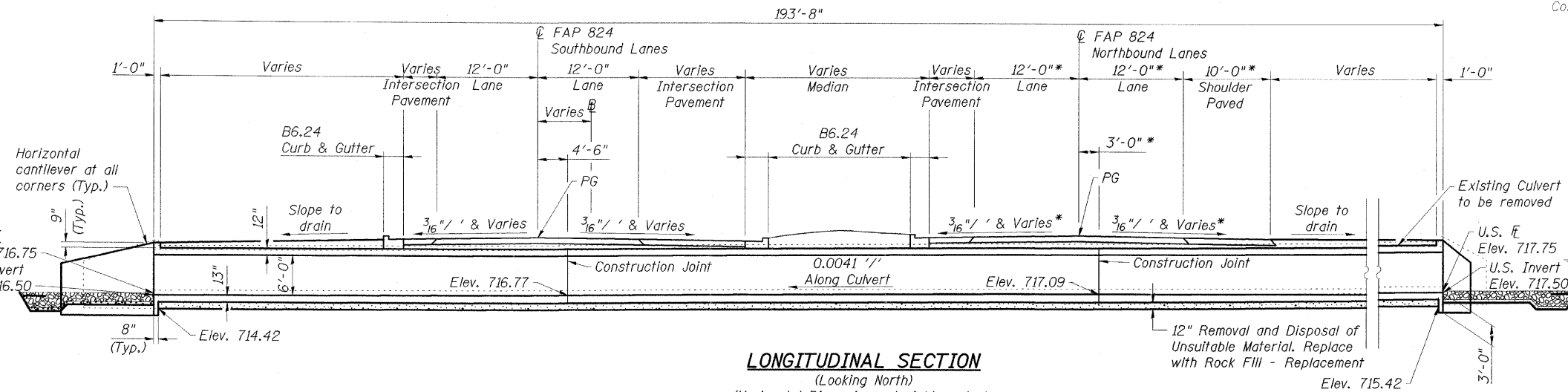
Contract #74157

BENCHMARK:
BM - Chiseled square on NW corner of E. headwall of SN 015-2006, Station 1380+26, 141.23' RT. Elev. 726.63 (NAVD 88)

EXISTING STRUCTURE:
SN 015-2006 was originally built in 1940 as SBI 25, Section 19-X and was extended in 1969 as SBI 25, Section 16-2, 19X-2, 19 BY, 19 BY-1. It is a double box culvert with wingwalls on spread footings. The box dimensions are 8'5" x 6'6" and the length is 242'-6" out to out of headwalls. Traffic shall be maintained utilizing stage construction. Road closure will be required of 19th Street at the intersection with US 45 during construction.

STATIONING:
Stationing of the structure is based on where the centerline of the culvert crosses the baseline as determined by IDOT District 7 Surveys.

No salvage.



LONGITUDINAL SECTION
(Looking North)
(Horizontal Dimensions at right angle to \bar{C} FAP 824 southbound lanes unless noted otherwise)
* dimension at right angle to \bar{C} FAP 824 northbound lanes

STRUCTURE INDEX OF SHEETS

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Temporary Concrete Barrier	Sheet No. 9 of 9

DESIGN SPECIFICATIONS
2002 AASHTO

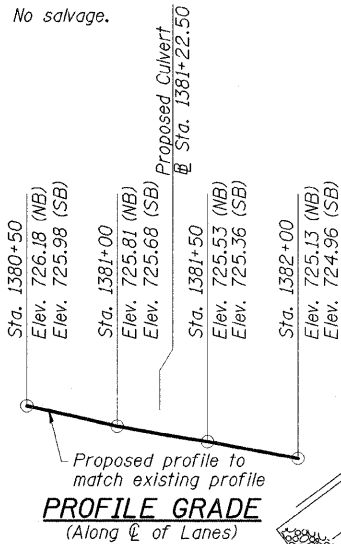
LOADING HS20-44
Allow 50 psf for future wearing surface.

DESIGN STRESSES

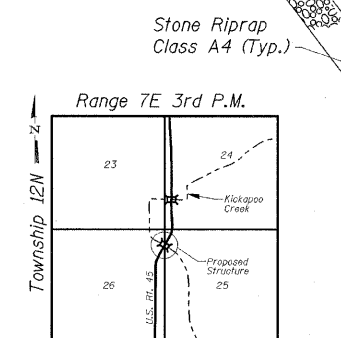
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

WATERWAY INFORMATION

Drainage Area = 0.92 Sq. Mi.		Exist. Low Grade Elev. = 723.3 Ft. @ Sta. 1384+83.50		Prop. Low Grade Elev. = 723.3 Ft. @ Sta. 1384+83.50					
Flood	Freq. Yr.	Q C.F.S.	Opening-Sq. Ft.	Nat. H.W.E. Exist. Prop.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop.			
Design	10	477	59	108	722.0	1.2	0.0	723.2	722.0
Base	50	803	69	122	722.6	1.6	0.3	724.2	722.9
Overtopping	100	955	72	127	722.8	1.6	0.9	724.4	723.7
Overtopping	12	495	59	-	722.0	1.3	-	723.3	-
Overtopping	65	847	-	125	722.7	-	0.6	-	723.3



PROFILE GRADE
(Along \bar{C} of Lanes)



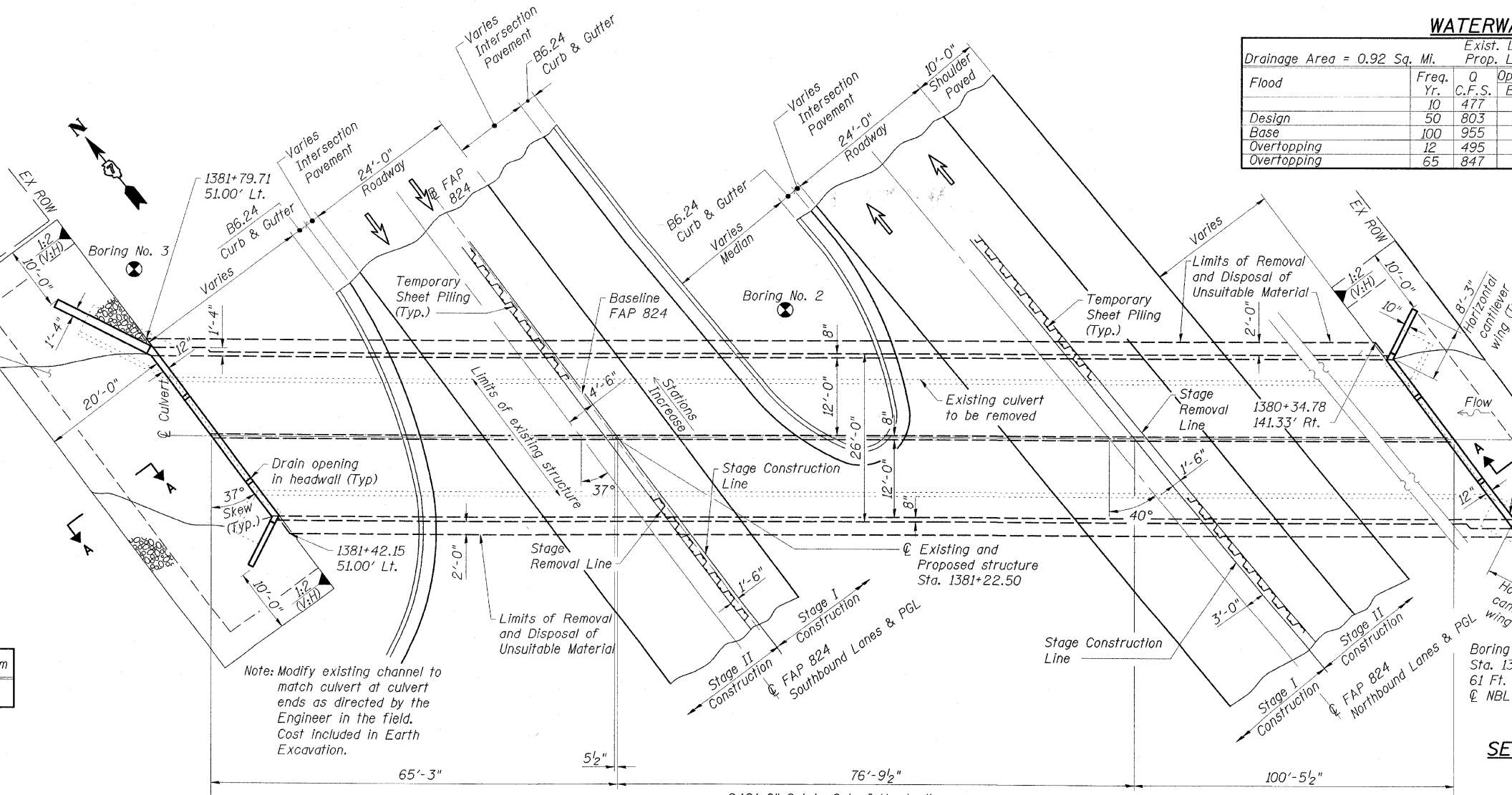
LOCATION SKETCH

SCOUR INFORMATION

Design Scour Elevation (Ft.)	Upstream	Downstream
	714.50	713.50

ESCA CONSULTANTS, INC.

DESIGNED BY:	DAJ	07/08
DRAWN BY:	HAS	07/08
CHECKED BY:	ELH	09/08
APPROVED BY:	RDP	09/08



PLAN

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Richard D. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-08
Richard D. Anderson
SIGNATURE
7-29-08
DATE

GENERAL PLAN

US 45 OVER KICKAPOO CREEK
FAP ROUTE 824
SECTION (16-2, 19X-2)RS-1, 19B, 19BR
COLES COUNTY
STATION 1381+22.50
STRUCTURE NO. 015-2023