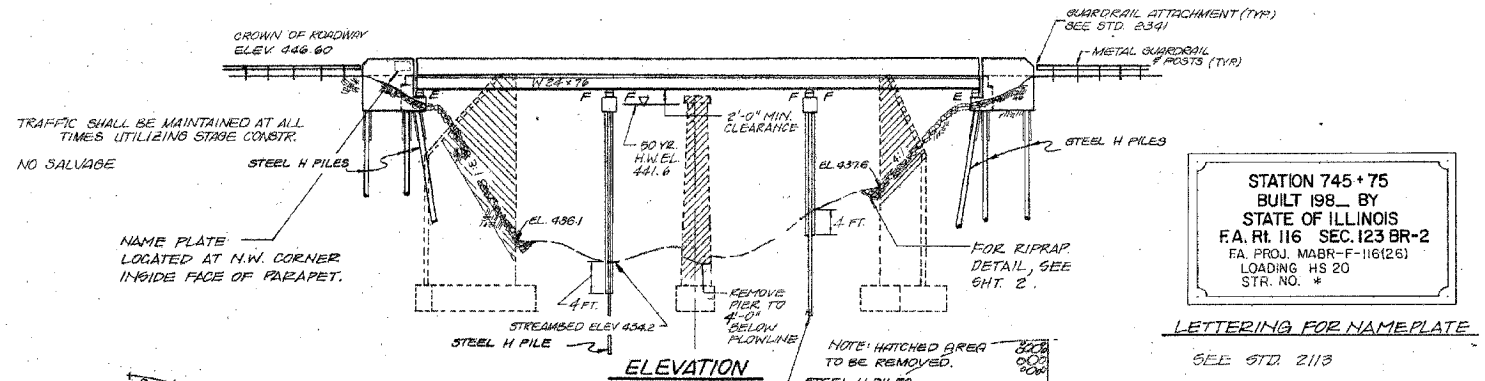


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 116	*	RICHLAND	31	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D-7 Joint Repairs 2006-3

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116 BR-2		RICHLAND	18	5
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

B.M. CHISEL 'X' ON S.E. WINGWALL OF EXISTING BRIDGE @ STA. 745+75. ELEV. 447.10
 EXISTING STRUCTURE #050-0008 BUILT AS S.B.I. RTE. 130, SEC. 123-B IN 1927 @ STA. 745+75. WIDENED IN 1939 AS S.B.I. RTE. 130, SEC. 123-BY.

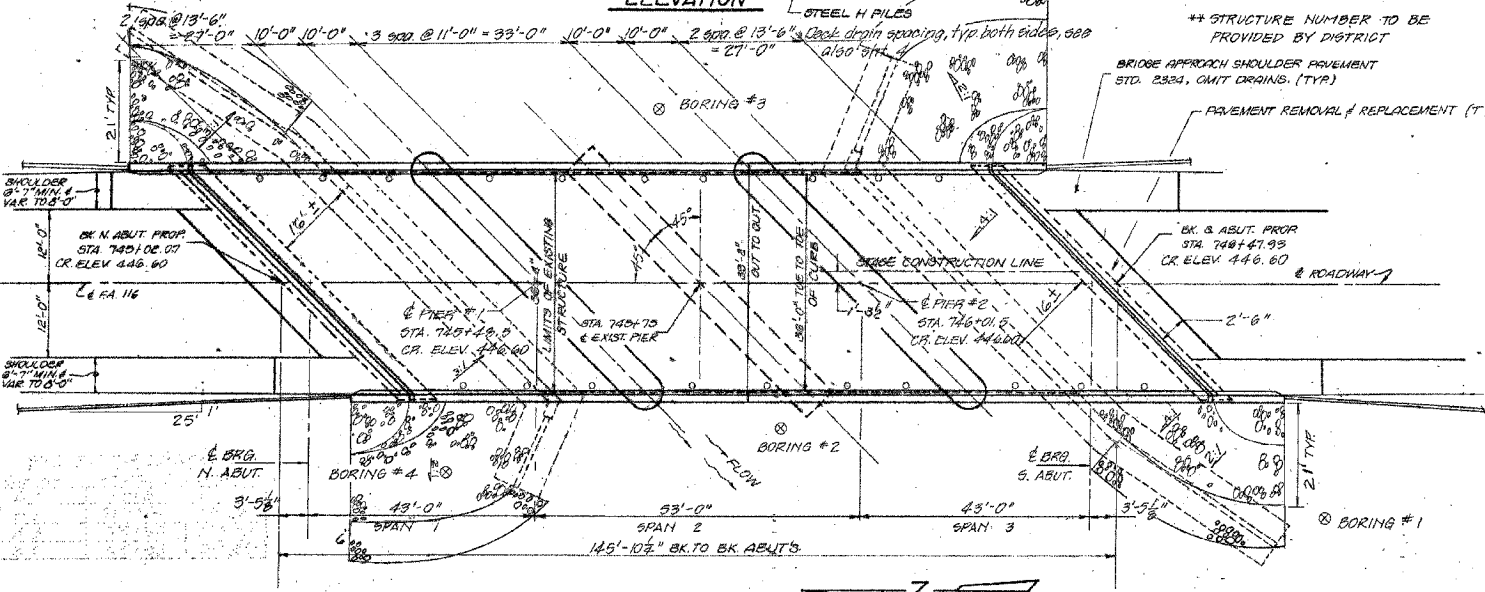


STATION 745+75
 BUILT 198... BY
 STATE OF ILLINOIS
 F.A. RT. 116 SEC. 123 BR-2
 FA. PROJ. MABR-F-116(26)
 LOADING HS 20
 STR. NO. *

LETTERING FOR NAMEPLATE
 SEE STD. 2113
 ** STRUCTURE NUMBER TO BE PROVIDED BY DISTRICT

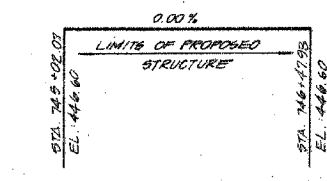
GENERAL NOTES

- PASTENERS SHALL BE HIGH STRENGTH BOLTS (AASHTO M 164, TYPE 3). BOLTS 1/2", OPEN HOLES 15/16", UNLESS OTHERWISE NOTED.
- SEE PROPOSAL FOR BORING DATA.
- THE CONTRACTOR SHALL DRIVE (1) ONE STEEL (HP 10x42) TEST PILE IN A PERMANENT LOCATION AT THE NORTH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
- ALL STRUCTURAL STEEL FOR A DISTANCE OF THREE TIMES THE DEPTH OF THE BEAMS, BUT NOT EXCEEDING 10 FEET, EACH WAY FROM DECK JOINTS SHALL BE CLEANED AND GIVEN ONE COAT OF THE BASIC LEAD SILICO CHROMATE PRIMER AND HARDEN FIELD COAT. BOTH COATS TO BE APPLIED IN THE SHOP WITH SPOT PAINTING ONLY IN THE FIELD.
- FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS, NOR TO THE TOP FLANGE, FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
- ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.
- ALL STRUCTURAL STEEL SHALL BE AASHTO M222 UNPAINTED TYPE.
- BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 3/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.
- THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS, SECTION 2. THESE COMPONENTS ARE THE WIDE FLANGE BEAMS AND ALL SPLICE PLATE MATERIAL OF WIDE FLANGE BEAMS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 GRADE 60.
- ALL CONTACT SURFACES OF JOINTS FOR THE DIAPHRAGMS SHALL BE FREE OF PAINT OR LAQUER.
- CALCULATED WEIGHT OF STRUCTURAL STEEL = 26,330 LBS.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
Class X Concrete	Cu Yds	162.9	180.7	343.6
Reinforcement Bars	Lbs.	15920	15580	31500
Reinforcement Bars (Epoxy Coated)	Lbs.	24540		24540
Stone Riprap	Sq Yds		441	441
Structural Steel	Lbs.	1		1
Stud Shear Connectors	Ea.	2142		2142
Steel Piles (HP 10x42)	Lin Ft.		1365	1365
Test Piles (HP 10x42)	Ea.		1	1
Structure Excavation	Cu Yds		350	350
Neoprene Expansion Joint (2")	Lin Ft.	106		106
Floor Drains	Ea.	20		20
Name Plates	Ea.	1		1
Protective Coat	Sq Yds	717		717
Removal of Existing Structures	Ea.	1		1
Temporary Bridge Roll	Lin Ft.	162		162
Pavement Removal & P.C.C. Replacement 10" Type I	Sq Yds	15		15



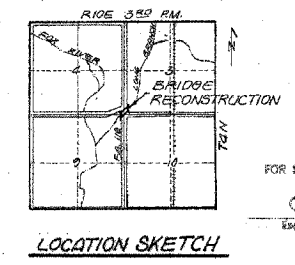
WATERWAY INFORMATION

DRAINAGE AREA = 9.8 SQ MI. LOW GRADE ELEV. = 446.60 @ STA. 745+00

FLOOD FREQ. YR.	Q C.F.S.	OPENING SQ. FT. EXIST. PROP.	NAT. H.W.E.	HEAD - FT. EXIST. PROP.	HEADWATER EL. EXIST. PROP.
DESIGN 50	2310	414	453	1.3	442.0
BASE 100	2848	432	451	1.0	443.5
MAX. CALC. 500	3500	456	512	2.5	444.0

DESIGN STRESSES
 FIELD UNITS
 f'c = 3,500 PSI (Concrete)
 f'y = 60,000 PSI (Reinforcement)
 Epoxy Coated Reinforcement shall be used in top layer of deck & inside face of parapets.
 f'y = 50,000 PSI (Structural) M222

LOADING HS 20-44
 DESIGN SPECIFICATIONS: 1977 AASHTO, 1978, 1979, 1980 & 1981 INTERIM SPECIFICATIONS AS APPLICABLE.
 ALLOW 25 LBS/SQ.FT. FOR FUTURE WEARING SURFACE.



PHILIP J. LANE Date 10-23-81
 Illinois Reg. Structural Engineer No. 4084

GENERAL PLAN AND ELEVATION

ILLINOIS ROUTE 130 OVER
 LONG BRANCH CREEK
 STATION 745+75
 F.A. ROUTE 116 SECTION 123 BR-2
 RICHLAND COUNTY