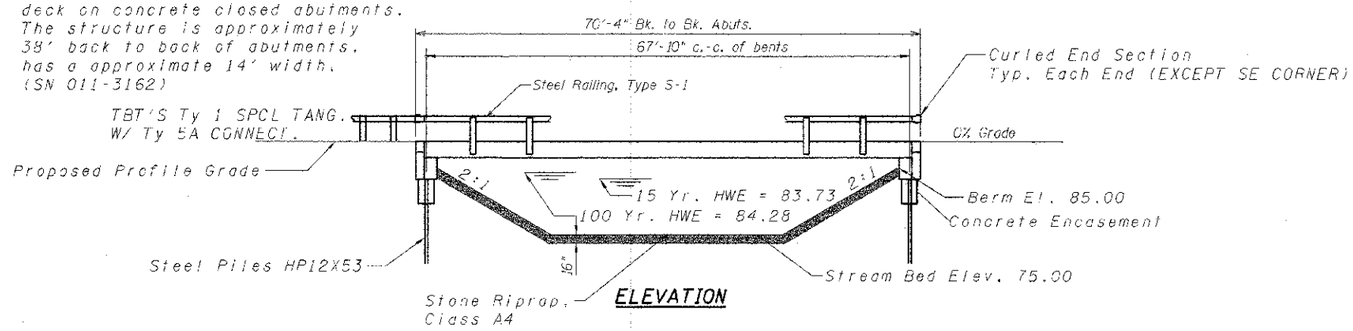
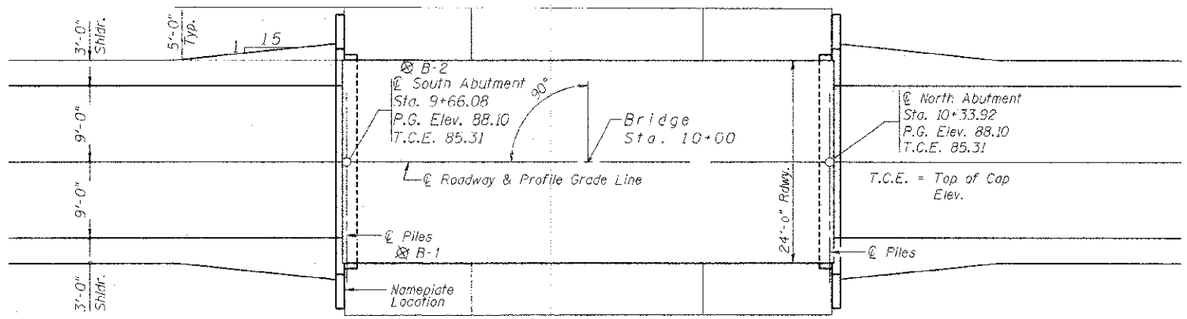
B.M.- #10 ELEV. 100.00 RT. STA. 6+95

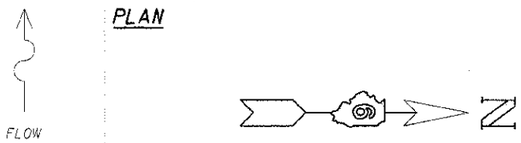
Existing Structure- Two Span I-Beam with a wood deck on concrete closed abutments. The structure is approximately 38' back to back of abutments, has a approximate 14' width. (SN 011-3162)



ELEVATION



PLAN



GENERAL NOTES

1. The Contractor shall drive one steel test pile to 110% of the Nominal Required Bearings, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Abuts.	Total
Removal of Existing Structures	Each			1
Channel Excavation	Cu. Yd.		540	540
Concrete Structures	Cu. Yd.		18.0	18.0
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1656		1656
Steel Railing, Type S1	Foot	138		138
Reinforcement Bars	Pound		2350	2350
Furnishing Steel Piles HP10X42	Foot		405	405
Driving Piles	Foot		405	405
Test Pile Steel HP10X42	Each		1	1
Name Plates	Each		1	1
Concrete Encasement	Cu. Yd.		3.4	3.4
Stone Riprap, Class A4	Ton		175	175
Filter Fabric	Sq. Yd.		265	265

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.		S. Abut.
	82.61		82.61

DESIGN SPECIFICATIONS

2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS - 6TH EDITION

LOADING HL93

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

SEISMIC DATA

Peak Groung Acceleration (PGA) = 0.09
Design Spectral Acceleration at 1.0 sec. (S1) = 0.07g
Design Spectral Acceleration at 0.2 sec. (Ss) =0.20 g
Site Coefficient (S) = C

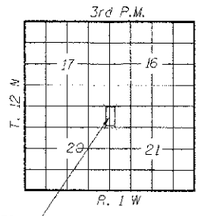
PILE DATA (2-ABUTS.)

Type STEEL HP10X42
Nominal Required Bearing: 333 kips
Factored Resistance Available: 166 kips
Estimated Length: 45 feet
Number of Piles: 10 (Includes 1 test pile at North Abutment

STATION 10+00
TRIBUTARY TO LOCUST CREEK
SEC. 08-07115-00-BR BUILT 201*
LOCUST ROAD DIST.
CHRISTIAN COUNTY
LOADING HL93
STR. NO. 011-3414

LETTERING FOR NAME PLATE

Locate Name Plate at SE Corner of Bridge



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 3.49 sq. mi. Low Grade Elev. = 88.10 @ Sta. 10+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	15	976	279	371	83.73	0.53	0.38	84.26	84.11
Base	100	1374	279	404	84.28	1.08	0.55	85.36	84.83
Overtopping									
Max. Calc.	500								

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'".

12/10/12
ILLINOIS STRUCTURAL NO. 4745 Expires 11/30/2013

LICENSED STRUCTURAL ENGINEER ZEYN UZMAN 4745 STATE OF ILLINOIS

MEC MAUTZ ENGINEERING COMPANY
CONSULTING ENGINEERS AND LAND SURVEYORS
(ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002949)
3523 S. MEADOWBROOK RD., SPRINGFIELD, ILLINOIS 62711
Phone: (217) 585-1900, Fax: (217) 585-1922, E-Mail: mecmail@mauteengineering.com

PROJECT NO.
DRAWING NO.
DATE XX/X

FILE NAME = @FILE@	USER NAME = @USER@	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = @SCALE@	CHECKED -	REVISED -
	PLOT DATE = @DATE@	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
TR 205 OVER TRIBUTARY TO LOCUST CREEK STA. 10+00

SCALE: _____ | SHEET NO. 1 OF 6 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 206	08-07115-00-BR	CHRISTIAN	12	4
			93596	
	ILLINOIS FED. AID PROJECT			