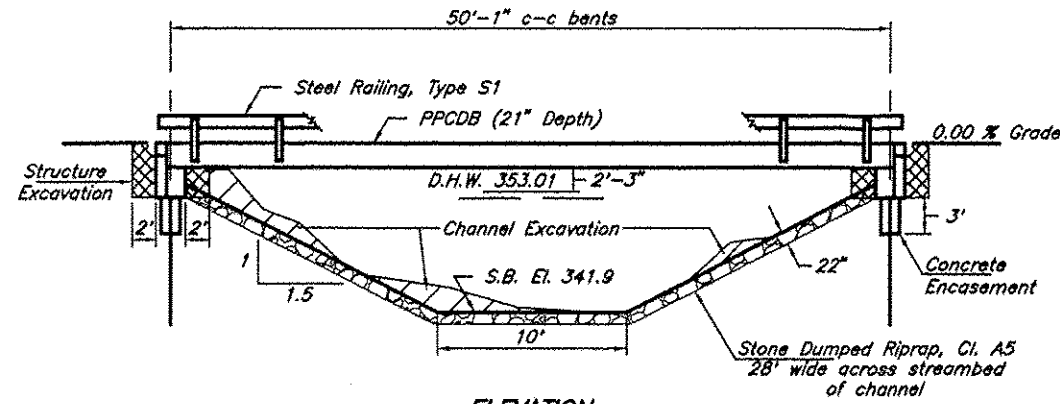


B.M. - RR Spike in Telephone Pole
37' Lt. Station 5+44
Assumed Elev. 357.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 239	06-06117-00-BR	SALINE	14	3
PROJECT NO. BROS-165(30)			CONTRACT NO. 99488	



GENERAL NOTES

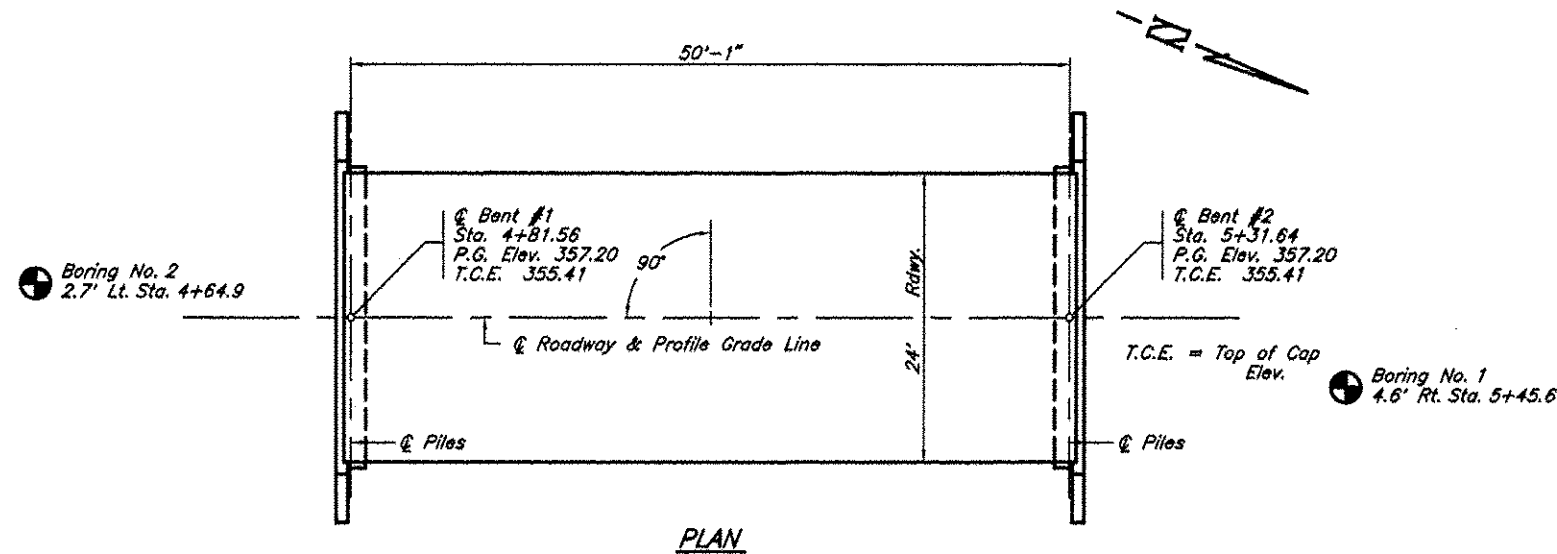
- Steel H piles shall meet AASHTO M270 Grade 50 specifications.
- See special provisions for boring logs.
- A Corrosion inhibitor, as covered in the Standard Specifications, shall be used in the precast prestressed concrete deck beams.

Structure No. 1 - Concrete deck on steel stringers with closed concrete abutments.
21.7' wide x 42.8' long

ELEVATION

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Channel Excavation	Cu. Yds.			199	199
Stone Dumped Riprap, Cl. A5	Tons			223	223
Removal of Existing Structure No. 1	Each				1
Structure Excavation	Cu. Yds.			63	63
Concrete Structures	Cu. Yds.			19.4	19.4
Concrete Encasement	Cu. Yds.			2.7	2.7
P.P. Conc. Dk. Bm. 21" Dp.	Sq. Ft.	1224			1224
Reinforcement Bars	Pound			2300	2300
Steel Railing, Type S1	Foot	104			104
Furnishing Steel Piles HP10X42	Foot			300	300
Driving Piles	Foot			300	300
Name Plates	Each			1	1

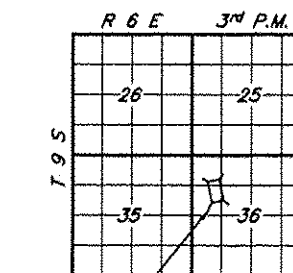


PLAN

BRIER CREEK
SEC. 06-06117-00-BR BUILT 20____
HARRISBURG TOWNSHIP
SALINE COUNTY
LOADING HL-93
STR. NO. 083-3237

LETTERING FOR NAME PLATE

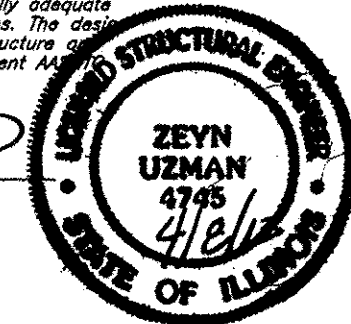
Locate Name Plate at southeast
Corner of Bridge (See Sheet 10)



LOCATION SKETCH

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 type of structure and complies with the requirements of the current AASHTO LRFD Specifications.

Zeyn B. Uzman
S.E. #81-4745
Expires Nov. 30, 2014



PILE DATA (2-ABUTS.)

Type & Size : HP10X42
Nominal Required Bearing : 260 kips
Factored Resistance Available : 143 kips
Estimated Length : 37 Feet Bent #1, 38 Feet Bent #2
Number Required : 8

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications and all applicable interims.

LOADING HL-93

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

SEISMIC DATA

Soil Site Class = C
Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 0.706
Design Spectral Acceleration at 1.0 sec. (S_{0.1}) = 0.255
Seismic Performance Zone (SPZ) = 2

WATERWAY INFORMATION

Drainage Area = 7.25 Sq. Mi.		Low Grade Elev. = 354.54				At Sta. 32+00				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Natural H.W.E. Exist.	Prop.	Head-Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	15	1810	227.5	296.7	353.07	353.01	0.70	0.00	353.77	353.01
Base	100	2950	271.2	368.9	354.66	354.59	0.81	0.91	355.47	355.50
Overtopping	±242	3548		387.9		355.06		2.14		357.20
Max. Calc.	500									

Over Road Flow (Sq Ft): Exist. 289.7
Note: Deck elevation used for overtopping to allow for future raising of the approaches

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 239 (BRIER CREEK ROAD)
BRIER CREEK
SECTION 06-06117-00-BR
SALINE COUNTY
STRUCTURE NO. 083-3237