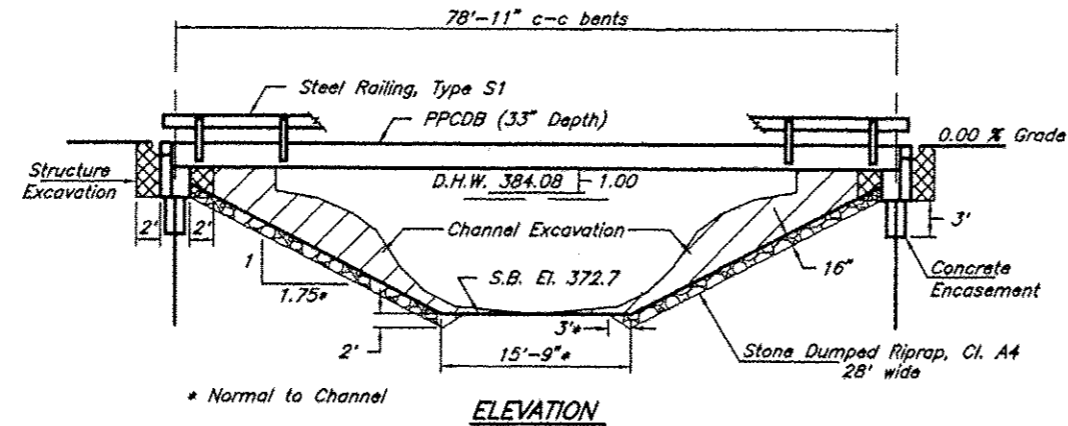


B.M. - Double nail in Power Pole
 20' Lt. Station 16+46
 Assumed Elev. 385.00
 (Approximately equal to 369.0 USGS)

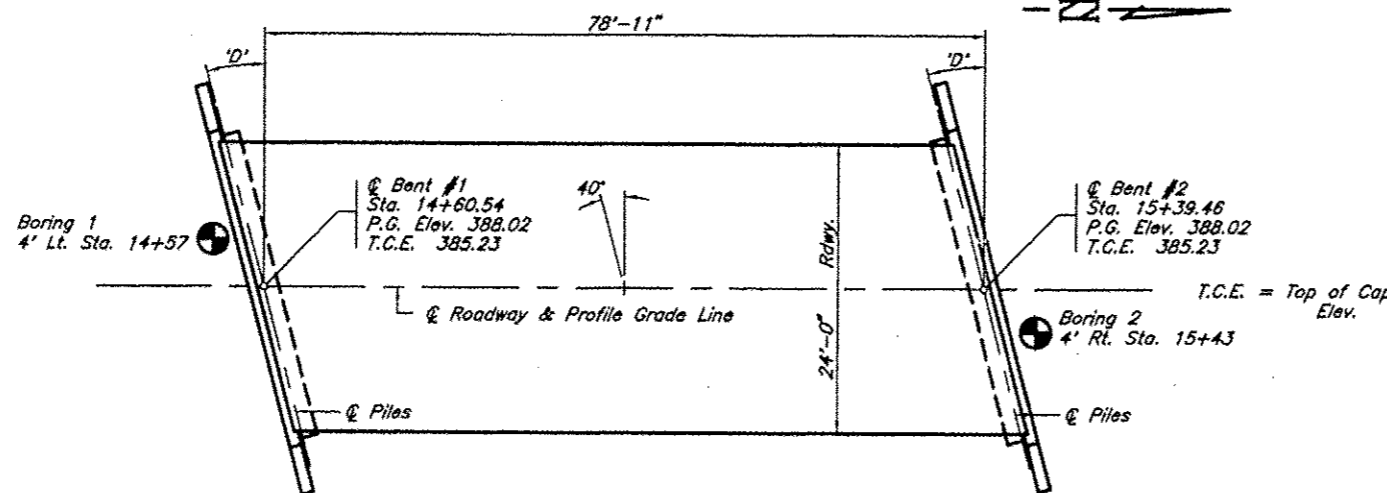
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 272A	10-04119-00-BR	SALINE	12	3
PROJECT NO. BROS-165(35)			CONTRACT NO. 99479	



Existing Structure - Timber deck on steel stringers with closed concrete abutments
 19.9' W x 55.6' L

GENERAL NOTES

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



Skew Angle "D" = 40° Right Forward

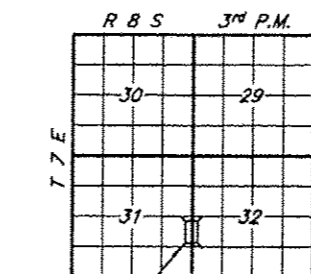
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Channel Excavation	Cu. Yds.			271	271
Stone Dumped Riprap, Cl. A4	Tons			197	197
Removal of Existing Structures	Each				1
Structure Excavation	Cu. Yds.			60	60
Concrete Structures	Cu. Yds.			24.6	24.6
Concrete Encasement	Cu. Yds.			4.1	4.1
P.P. Conc. Dk. Bm. 33 Dp.	Sq. Ft.	1920			1920
Reinforcement Bars	Pound			3098	3098
Steel Railing, Type S1	Foot	164			164
Furnishing Steel Piles HP10X42	Foot			372	372
Driving Piles	Foot			372	372
Name Plates	Each			1	1

SPOIL BANK DITCH
 SEC. 10-04119-00-BR BUILT 20—
 EAST ELDORADO TOWNSHIP
 SALINE COUNTY
 LOADING HL-93
 STR. NO. 083-3242

LETTERING FOR NAME PLATE

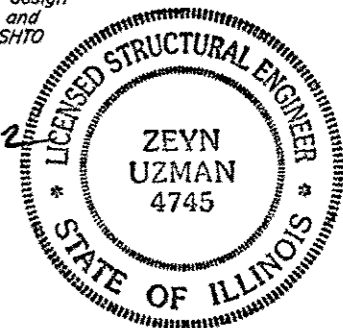
Locate Name Plate at southeast
 Corner of Bridge (See Sheet 10)



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 comply with the requirements of the current AASHTO LRFD Specifications.

Zeyn B. Uzman
 Zeyn B. Uzman
 S.E. 781-4745
 Expires Nov. 30, 2012



PILE DATA (2-ABUTS.)

Type & Size : HP10X42
 Nominal Required Bearing : 242 kips
 Factored Resistance Available : 133 kips
 Estimated Length : 33 Ft Bent #1, 29 Ft Bent #2
 Number Required : 12

DESIGN SPECIFICATIONS

2012 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 = D
 Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 0.780
 Design Spectral Acceleration at 1.0 sec. (S_{1.0}) = 0.330
 Seismic Performance Zone (SPZ) = 3

WATERWAY INFORMATION

		Drainage Area = 6.87 Sq. Mi.		Low Grade Elev. = 385.43		At Sta. 17+47			
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Natural H.W.E. Prop.	Head-Ft. Exist.	Headwater El. Prop.	Headwater El. Prop.		
Design	15	1750	250.1	405.4	384.08	1.82	0.04	385.90	384.12
Base	100	2850	284.9	456.9	384.97	1.51	0.88	386.48	385.85
Overtopping	± 64	2588		445.9	384.78		0.65		385.43
Max. Calc.	500								

Over Road Flow (Sq Ft): Exist. 78.4 1131.7 Prop. 32.7

GENERAL PLAN & ELEVATION
 TOWNSHIP ROUTE 272A (LINDALE ROAD)
 SPOIL BANK DITCH
 SECTION 10-04119-00-BR
 SALINE COUNTY
 STRUCTURE 083-3242