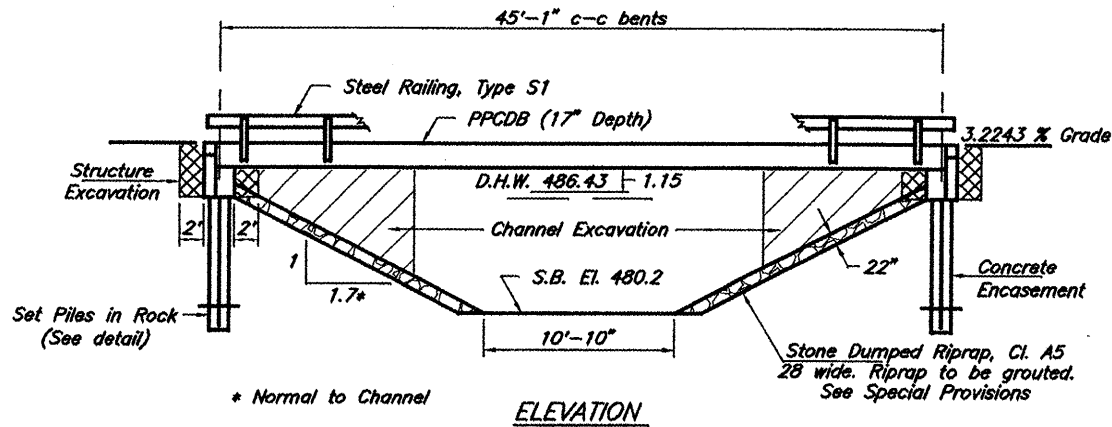


B.M. - Double nail in Power Pole
 43' Lt Station 15+23
 Assumed Elev. 492.90

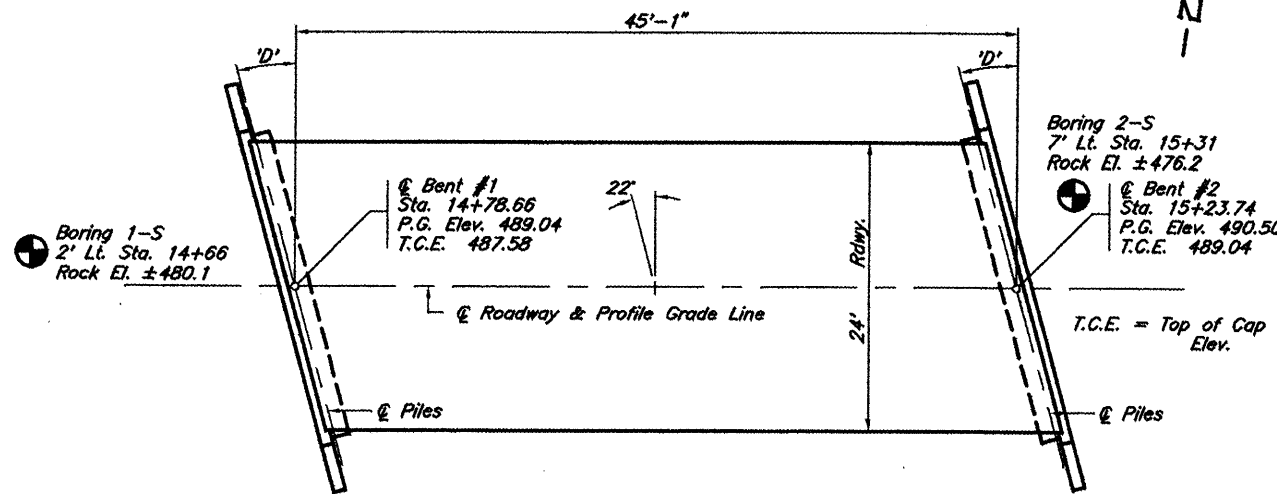
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	08-08106-00-BR	JACKSON	12	4
PROJECT NO. BROS-077(54)			CONTRACT NO. 99357	



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.

Existing Structure - Concrete deck on steel steel stringers with closed concrete abutments. 16.0' W x 26.0' L.



TOTAL BILL OF MATERIAL

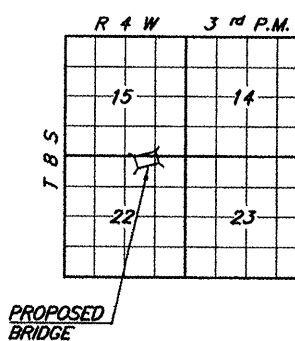
Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Channel Excavation	Cu. Yds.			30	30
Stone Dumped Riprap, Cl. A5	Tons			122	122
Removal of Existing Structures	Each				1
Structure Excavation	Cu. Yds.			44	44
Concrete Structures	Cu. Yds.			17.4	17.4
P.P. Conc. Dk. Bm. 17" Dp.	Sq. Ft.	1104			1104
Reinforcement Bars	Pound			2370	2370
Steel Railing, Type S1	Foot	94			94
Furnishing Steel Piles HPB36	Foot			96	96
Setting Piles in Rock	Each			8	8
Name Plates	Each			1	1

Skew Angle "D" = 22° Right Forward

JOHNSON CREEK
 SEC. 08-08106-00-BR BUILT 20
 KINKAID TOWNSHIP
 JACKSON COUNTY
 LOADING HL-93
 STR. NO. 039-3269

LETTERING FOR NAME PLATE

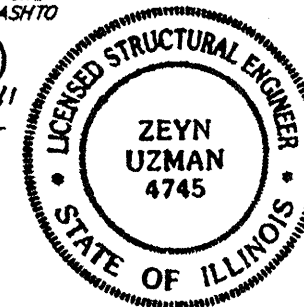
Locate Name Plate at Southwest Corner of Bridge (See Sheet 8)



LOCATION SKETCH

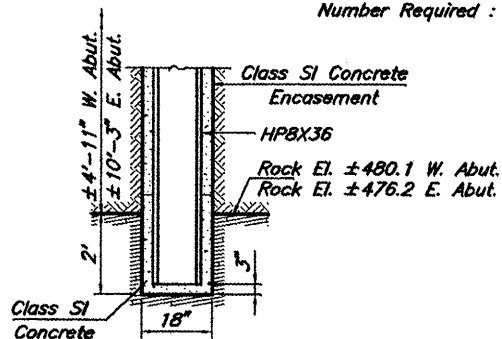
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the type of structure and comply with the requirements of the current AASHTO LRFD Specifications.

[Signature]
 3/24/11
 S.E. #0-4745
 Expires Nov. 30, 2012



PILE DATA (2-ABUTS.)

Type & Size : HPB36
 Set in Rock
 Estimated Length : 10 feet Bent #1
 14 feet Bent #2
 Number Required : 8



SETTING PILES IN ROCK (Typical)

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

Seismic Performance Category (SPC) = B
 Bedrock Acceleration Coefficient (A) = 13.6%
 Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area = 1.58 Sq. Mi. Low Grade Elev. = 486.73 At Sta. 13+44

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	1380	133.9	132.9	486.43	0.00	0.05	486.43	486.48
Base	100	2430	153.6	187.5	488.14	0.14	0.58	488.28	488.72
Overtopping	±113	2506		189.1	488.22		0.78		489.00
Max. Calc.	500								

Over Road Flow (Sq Ft): Exist. 0.9 177.9
 Note: Deck elevation used for overtopping to allow for future raising of the approaches

GENERAL PLAN & ELEVATION
 TOWNSHIP ROUTE 151A (MORBER ROAD)
 JOHNSON CREEK
 SECTION 08-08106-00-BR
 JACKSON COUNTY
 STRUCTURE NO. 039-3269