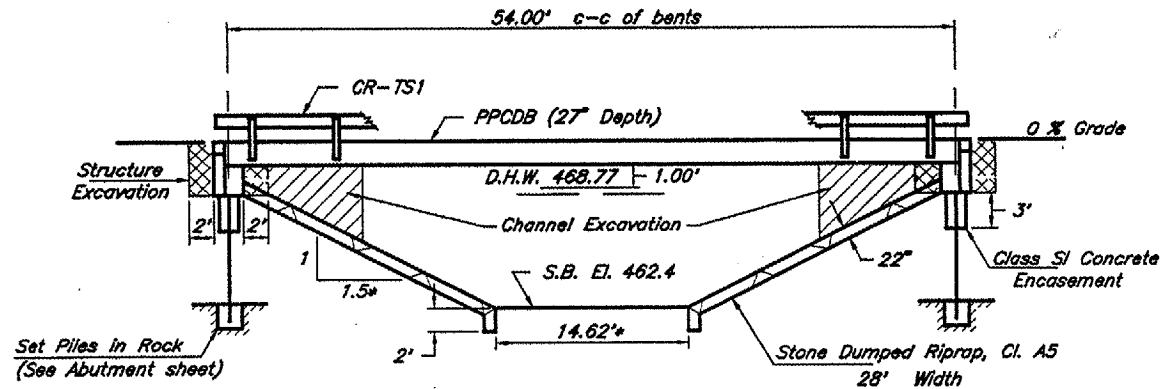


B.M. - RR Spike in Dbl. 12" Trees
29' Lt. Sta. 14+64
Assumed Elev. 468.70

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 1	02-00092-00-BR	UNION	10	3
PROJECT NO. BR05-181(18)			CONTRACT NO. 99207	



ELEVATION

* Normal to Channel

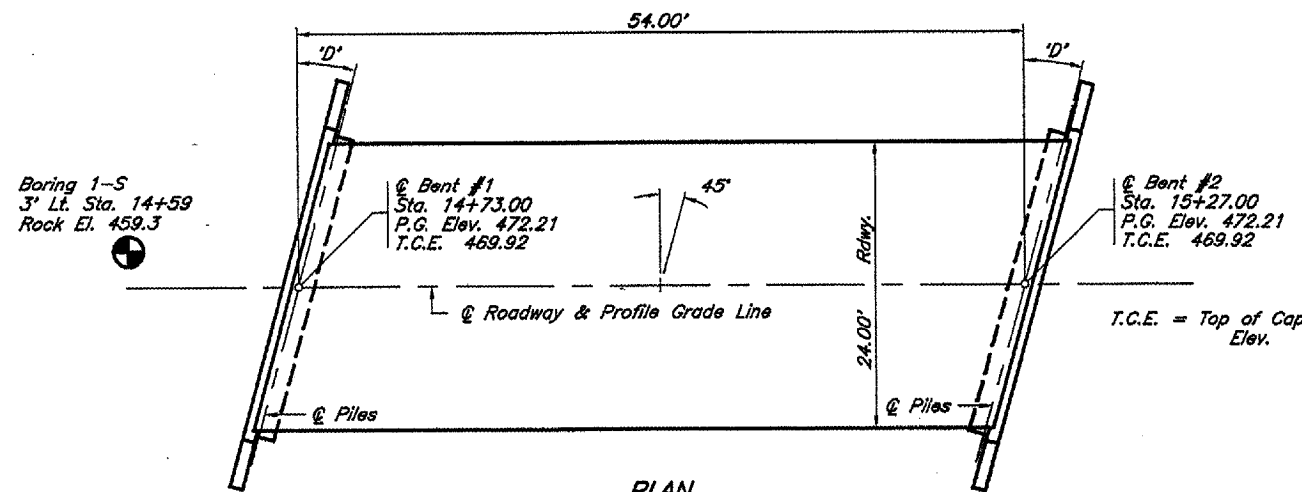
GENERAL NOTES

- See special provisions for boring logs.
- The Bituminous Concrete Surface Course and the Waterproofing Membrane System shown on the plans shall not be provided.
- The Article or Section numbers referencing the Standard Specifications for Road and Bridge Construction as shown on the standard plan sheets included with the contract plans should be interpreted as referring to the current edition of the Standard Specifications (Adopted January 1, 2002) as shown in the "Article/Section No. Reference Table".

ARTICLE/SECTION NO. REFERENCE TABLE

Previous No.	Current No.
504.06	504.06
505.04	505.04
706.05	1006.05
706.32	1006.32
760.07	1060.07

Existing Structure - Single span timber deck with steel stringers on closed timber & concrete abutments. 14.0' W x 37.2' L



PLAN

Skew Angle "D" = 45° Left Forward

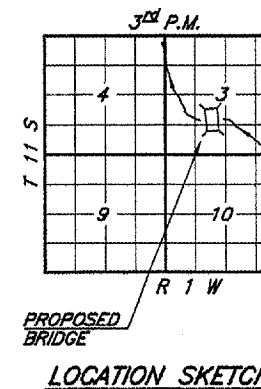
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yds.			24.8	24.8
P.P. Conc. Dk. Brn. 27" Dp.	Sq. Ft.	1324			1324
Steel Railing, Type S1	Foot	112			112
Reinforcement Bars	Pound			2842	2842
Furnishing Steel Piles HP10x42	Foot			120	120
Setting Piles in Rock	Each			10	10
Glass SI Concrete Encasement	Cu. Yds.			2.6	2.6
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			66	66
Channel Excavation	Cu. Yds.			27	27
Stone Dumped Riprap, Class A5	Tons			140	140

TRIBUTARY TO DRURY CREEK
SEC. 02-00092-00-BR BUILT 20
COUNTY UNIT ROAD DISTRICT
UNION COUNTY
LOADING HS20
STR. NO. 091-3219

LETTERING FOR NAME PLATE

Locate Name Plate at southeast
Corner of Bridge (See Std. CN)



PILE DATA (2-ABUTS.)

Type - Steel HP10x42
Capacity - Set in Rock
Estimated Length - 12 Feet
Number Required - 10

WATERWAY INFORMATION

Drainage Area = 1.100 Sq. Mi.		Low Grade Elev. = 472.21		At Sta. 15+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Natural H.W.E.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	15	1511	144.6 154.0	468.77	0.00 0.00	468.77 468.77
Base	100	2555	168.7* 183.3	469.75	2.00 0.85	471.75 470.60
Overtopping	±113	2745	189.0	469.89		2.32 472.21
Max. Calc.	500					

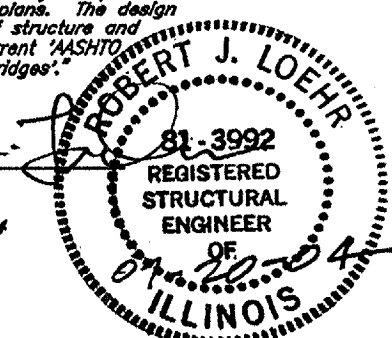
Existing Over Road Flow Area = 41.3 S.F.

DESIGN SPECIFICATIONS

1996 AASHTO & Interims
HS 20-44 Loading. Load Factor Design.

"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'."

Robert J. Loehr
S.E. #81003992
Expires Nov. 30, 2004



GENERAL PLAN & ELEVATION
COUNTY HIGHWAY 1
TRIBUTARY TO DRURY CREEK
SECTION 02-00092-00-BR
UNION COUNTY
STATION 15+00