

B.M. - Iron Pin Set Centerline Lichtler Rd.
 @ Sta. 0+00 = Elev. = 99.18

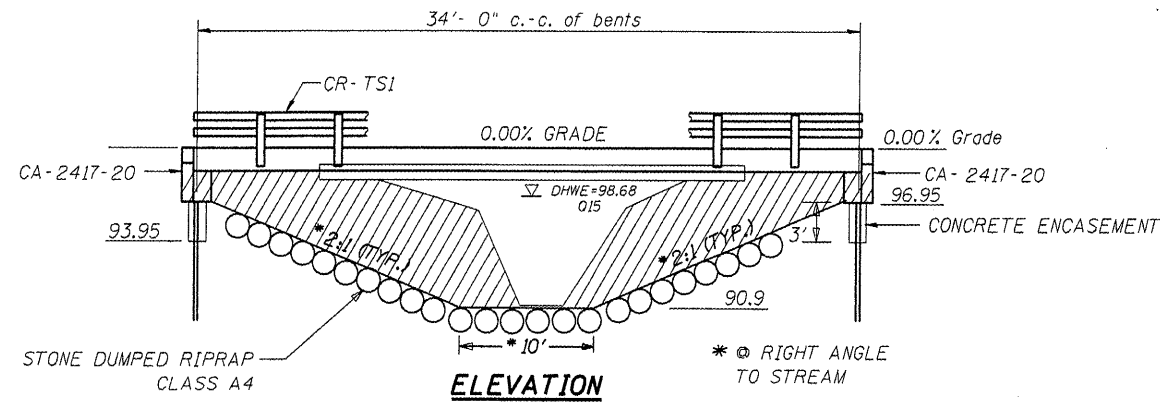
Existing Structure - 24' Wide Concrete Deck Bridge

Salvage - See Special Provisions

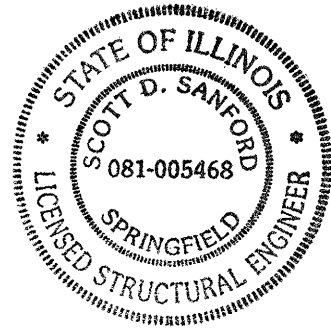
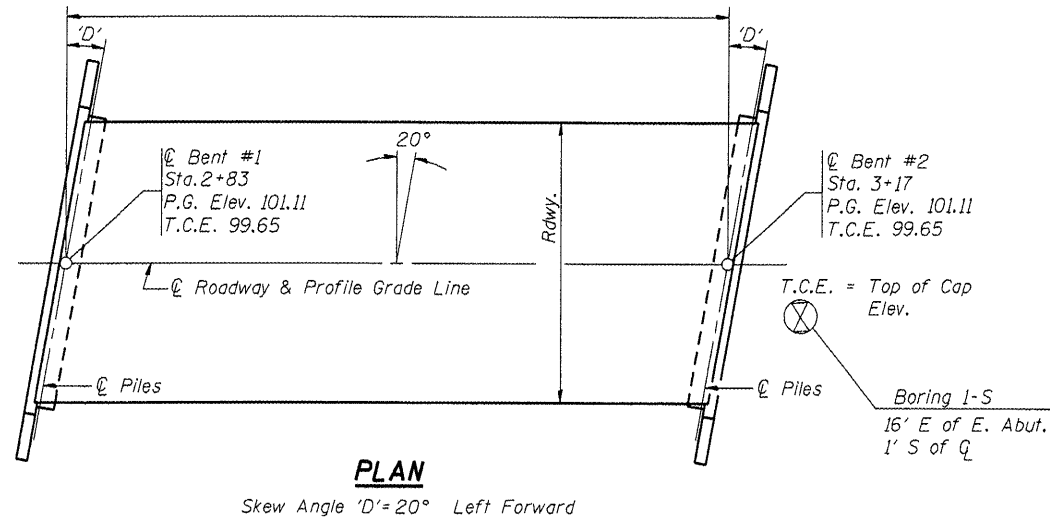
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R.75	*	JACKSON	13	4
FED. PROJECT BROS- 077(40)				

*- 05-16118-00-BR

CHANNEL/STRUCTURE EXCAVATION



Boring 2-S
 22' W of W Abut
 1' N of Q



"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 the requirements of the current "AASHTO Standard Specifications for Highway Bridges". The capacity of the pile foundation, hydraulics and quantities were determined by Others and are not covered by this certification."

Date: 12-1-08

Signature: *[Handwritten Signature]*

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = 0.122g
 Bedrock Acceleration Coefficient (A) = B
 Site Coefficient (S) = 1.0

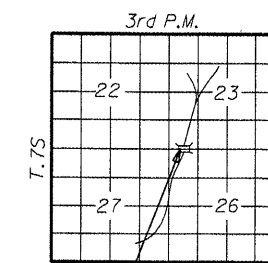
PILE DATA (2-ABUTS.)

Type Steel HP 10X42
 Nominal Required Bearing 183 kips
 Allowable Resistance Available 61 kips
 Estimated Length 35' E. Abut, 42' W. Abut.
 Number Required 8 (Includes 1 Test Pile located in Bent #1)

GLENN CREEK
 SEC. 05-16118-00-BR BUILT 2009
 VERGENNES ROAD DIST.
 JACKSON COUNTY
 LOADING HS20
 STR. NO. 039-3060

LETTERING FOR NAME PLATE

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



PROPOSED R. 2W BRIDGE
LOCATION SKETCH

Additional Notes:

Reinforcement bars shall conform to the requirements of A706 Grade 60 (IL modified). See Special Provisions.

The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

The Waterproofing Membrane System and Bituminous Concrete Surface Course shown on the plans shall not be provided.

In addition to all other requirements of section 512 of the Standard Specification, splices for the steel HP piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	L. Sum				1
Bituminous Concrete Surface Course, Superpave	Ton				
Waterproofing Membrane System	Sq. Yd.				
Concrete Structures	Cu. Yd.			17.6	17.6
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	840			840
Steel Bridge Rail, Type SM	Foot				
Steel Railing, Type S-1	Foot	70			70
Reinforcement Bars	Pound			2360	2360
Furnishing Steel Piles HP 10x42	Foot			308	308
Driving	Foot			266	266
Test Piles	Each			1	1
Name Plates	Each	1			1
Concrete Encasement	Cu. Yd.			2.1	2.1
Portland Cement Mortar Fairing Course	Foot	245			245
Channel Excavation	Cu. Yd.			160	160

GENERAL NOTES

- The Contractor shall drive 1 test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.

WATERWAY INFORMATION

Drainage Area = 4.69 SQ Mi Low Grade Elev. = 99.69 @ Sta. 3+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	612	74	163	98.68		0		98.68
Base	100		79	178	99.09		0		99.02
Overtopping									
Max. Calc.	500	1120			99.31				

GENERAL PLAN & ELEVATION
 TWP ROUTE 75
 OVER GLENN CREEK
 SECTION 05-16118-00-BR
 JACKSON COUNTY
 STATION 3+00