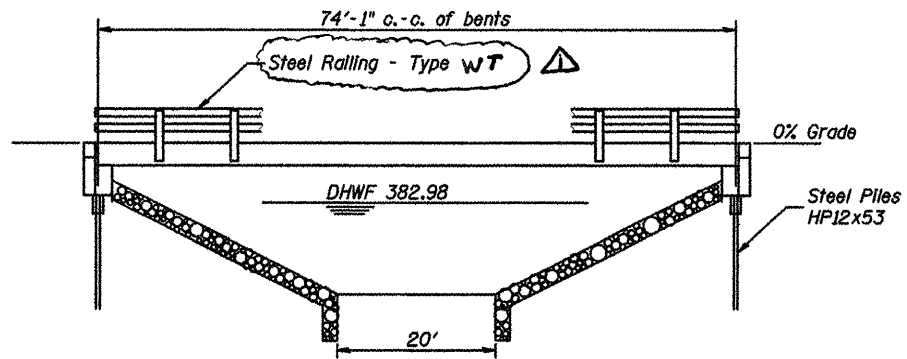
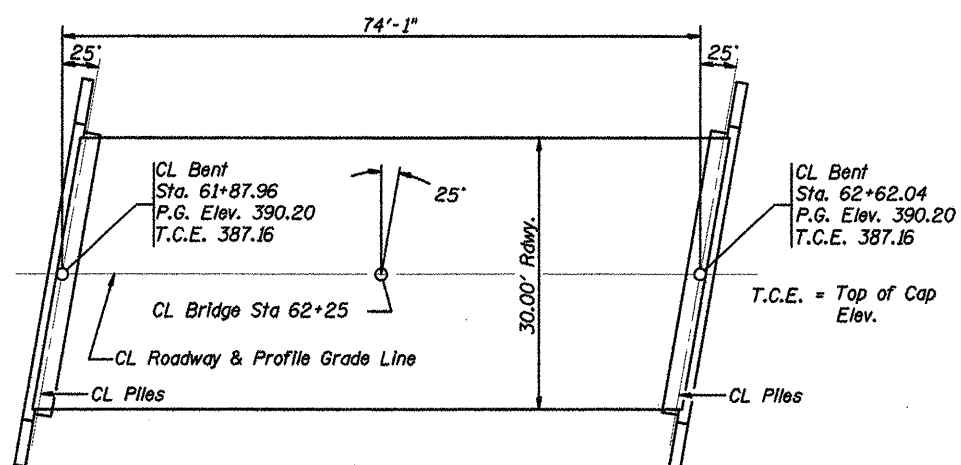


B.M. -  
Existing Structure -  
Salvage -



**ELEVATION**



**PLAN**



- GENERAL NOTES**
1. The Contractor shall drive 0 test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
  2. See Special Provisions for boring logs.
  3. A Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
  4. The Steel H-piles shall be according to AASHTO M270 Grade 50.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
HMA Surface Course	Ton	35			35
Waterproofing Membrane System	Sq. Yd.	250			250
Concrete Structures	Cu. Yd.			27.2	27.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2250			2250
Steel Bridge Rail, Type WT	Foot	150			150
Reinforcement Bars	Pound			3220	3220
Furnishing Steel Piles HP12x53	Foot			756	756
Driving Steel Piles	Foot			756	756
Name Plates	Each			1	1
Concrete Encasement	Cu. Yd.			4.0	4.0

Revised 5-28-09

**DESIGN SPECIFICATIONS**

2007 AASHTO LRFD  
HL 93 Loading, Load Factor Design.

**LOADING HS20-44**

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

**SEISMIC DATA**

Seismic Performance Category (SPC) = Bedrock Acceleration Coefficient (A) = Site Coefficient (S) =

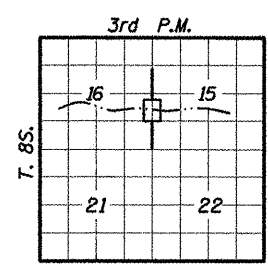
**PILE DATA (2-ABUTS.)**

Type	HP 12X53
Nominal Require Beams	418 KIPS
Allowable Resistance Available	139 KIPS
Capacity	Tons
Estimated Length	Feet 63
Number Required	12

STATION 62+25  
UNNAMED CREEK  
SEC. 06-00141-00-BR BUILT 2009  
SALINE COUNTY  
LOADING # 93  
STR. NO. 083-3234

**LETTERING FOR NAME PLATE**

Locate Name Plate at Northwest Corner of Bridge

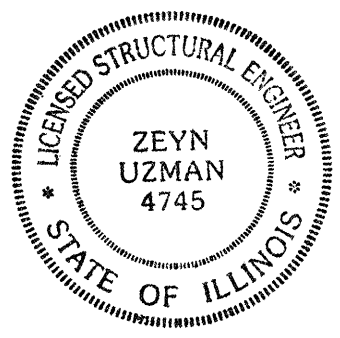


PROPOSED R. 5E BRIDGE

**LOCATION SKETCH**

I certify that to the best of 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.

4/14/09  
Illinois Structural No. 4745  
Expires 11/30/2010



**WATERWAY INFORMATION**

Drainage Area = 8.29 S.M.		Low Grade Elev. = 389.9 @ Sta. 55+30							
Flood Yr.	Freq.	Q	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.	Prop. Exlst.	Prop. Exlst.	Prop. Exlst.
Design	20	1539	162 166	382.98	0.85 0.85	383.83	383.83	383.83	383.83
Base	100	2172	196 203	384.25	1.65 1.59	385.90	385.90	385.84	385.84
Overtopping									
Max. Calc.	500	2749	229 243	385.36	2.45 2.32	387.81	387.68	387.68	387.68

**GENERAL PLAN & ELEVATION**  
F.A.S. ROUTE 898  
OVER TRIB TO MFSR  
SECTION 06-00141-00-BR  
SALINE COUNTY  
STATION 62+25