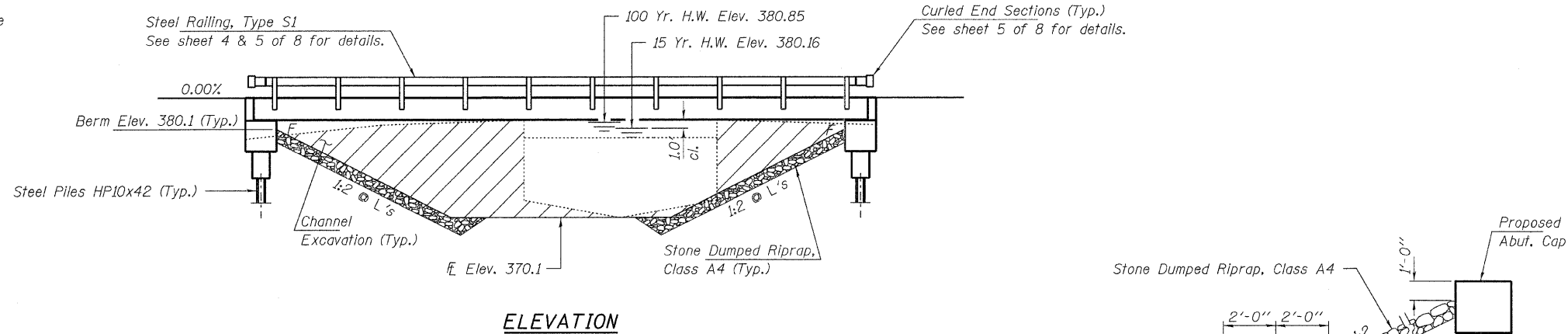


BENCHMARK: Iron Pin, Sta. +4+44.61, 8.14' Rt., Elev. 379.83

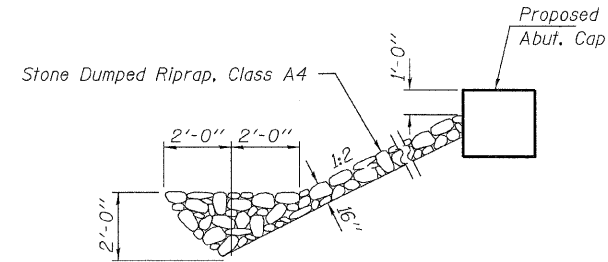
EXISTING STRUCTURE NO. 097-3057: Sta. 5+06.8; A single span Precast concrete channel beam bridge on wood caps, wood mudwalls, and timber piling.

Structure closed to traffic.

No Salvage

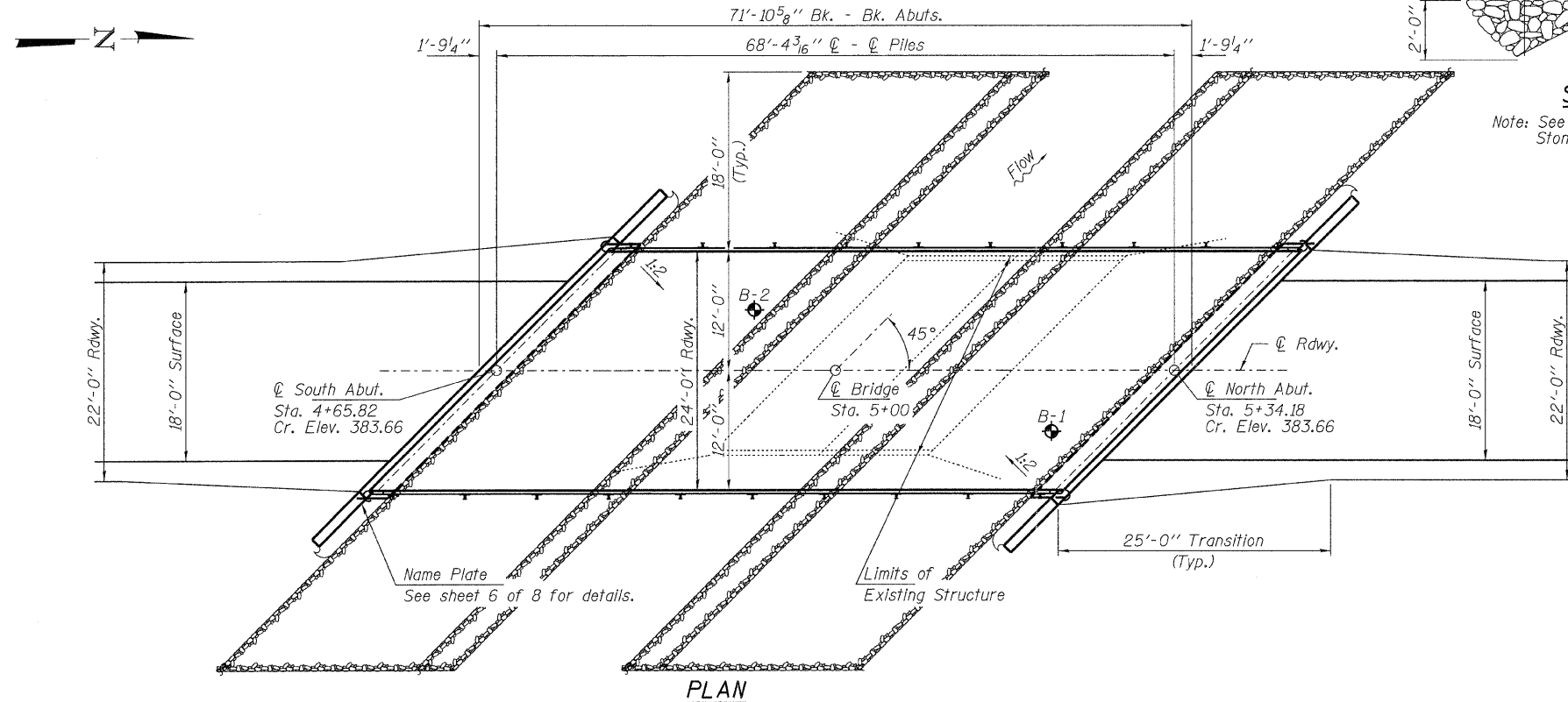


ELEVATION



SECTION A-A

Note: See Special Provisions for Stone Dumped Riprap, Class A4.



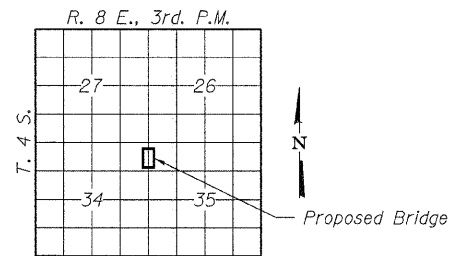
PLAN

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation. All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. 27" x 48" PPC Deck Beam
- 3.-4. 27" x 48" PPC Deck Beam Details
5. Steel Railing, Type S-1
6. Abutments
7. HP Pile Details
8. Borings



LOCATION SKETCH

BUILT 2011 BY
WHITE COUNTY
SEC. 09-09126-00-BR
MILL SHOALS ROAD DISTRICT
STR. NO. 097-3270
LOADING HL-93

NAME PLATE
See Std. 515001

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($1/2"$ low lax. strands)
 $f_{pbt} = 201,960$ psi ($1/2"$ low lax. strands)
 $f_y = 60,000$ psi (Reinf.)

LOADING HL-93

Design Specifications: 2007 AASHTO LRFD with all applicable Interims. 50#/Sq. Ft. Included in dead load for future wearing surface.

SEISMIC DATA

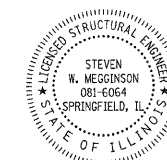
Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.355g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.839g
Soil Site Class = D

WATERWAY INFORMATION

Drainage Area = 4.15 Sq. Mi.		Existing Low Grade Elev. 379.2 @ Sta. 3+25		Proposed Low Grade Elev. 379.3 @ Sta. 9+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Exist. Sq. Ft.	Natural Prop. H.W.E.	Head - Ft. Exist. Prop. Exist. Prop.	Headwater El. Exist. Prop.
Design	15	1380	217	332.6	380.16	- 0.00 - 380.16
Base	100	2350	217	365.3	380.85	0.23 0.03 381.08 380.88
Max. Calc.	500					

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 LRFD Specifications."

Steven W. Megginson 10/14/11
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-2012

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			388
Stone Dumped Riprap, Class A4	Ton			390
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		32.8	32.8
Concrete Encasement	Cu. Yd.		3.5	3.5
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,680		1,680
Reinforcement Bars	Pound		3,290	3,290
Steel Railing, Type S1	Foot	135		135
Furnishing Steel Piles HP10x42	Foot		400	400
Driving Piles	Foot		400	400
Name Plates	Each		1	1

FILE NAME = 090857-shr-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED - 08/30/10
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3038 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - D.T.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 18430099	PLOT DATE = 10/14/2011	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
WHITE COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
STRUCTURE NO. 097-3270

SHEET NO. 1 OF 8 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	09-09126-00-BR	WHITE	12	5
MILL SHOALS ROAD DISTRICT			CONTRACT NO. 99445	
ILLINOIS FED. AID PROJECT				