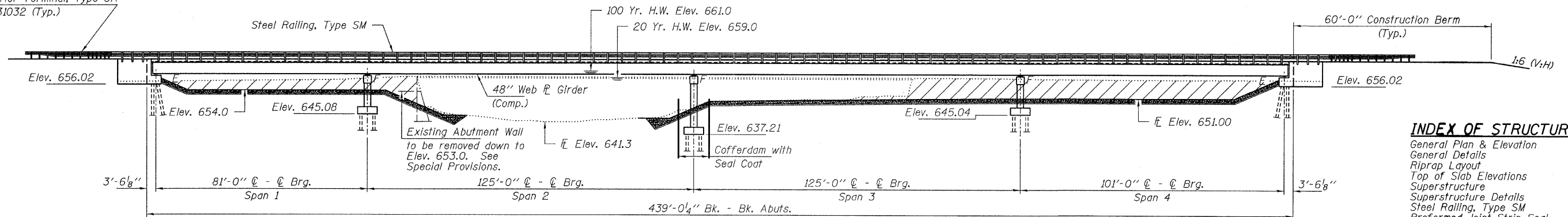


BENCHMARK: B.M. #1 - Chisled "□" in top of headwall, 12' Lt., Sta. 4+42, Elev. 660.07

EXISTING STRUCTURE: SN 074-3101, built in 1906 consists of a single span thru truss with timber deck on closed abutments. Bridge is 190'-0" long and 17'-4 3/4" wide center to center bearings. The existing structure shall be removed and replaced using road closure.

No Salvage

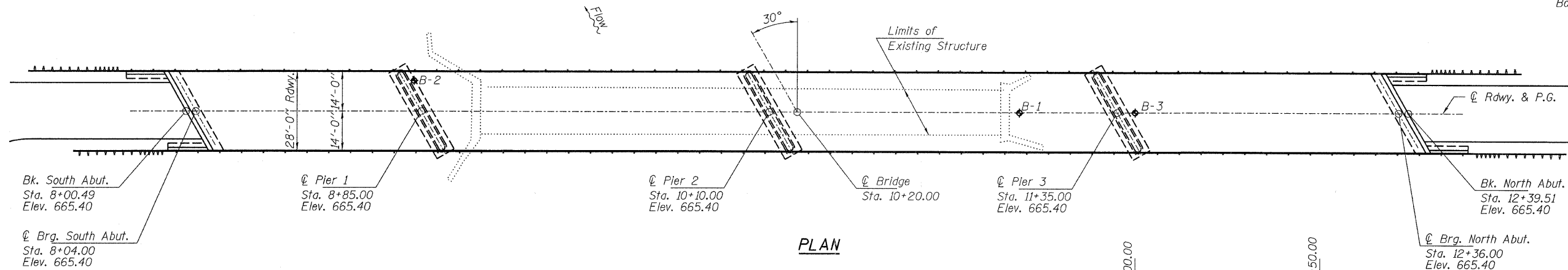
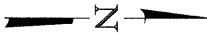
Traffic Barrier Terminal, Type 6A
See Std. 631032 (Typ.)



ELEVATION

INDEX OF STRUCTURE SHEETS

- General Plan & Elevation
- General Details
- Riprap Layout
- Top of Slab Elevations
- Superstructure
- Superstructure Details
- Steel Railing, Type SM
- Preformed Joint Strip Seal
- Framing Plan
- Structural Steel Details
- Elastomeric Bearing Details
- Abutments
- Abutment Details
- Pier 1 & 3
- Pier 2
- HP Pile Details
- Borings



PLAN

WATERWAY INFORMATION

Drainage Area = 391 Sq. Mi. Existing Low Grade Elev. = 656.3 @ Sta. Proposed Low Grade Elev. = 662.0 @ Sta.

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
10	9820	9820	Bridge	1800	3060	658.1	0.2	0.5	658.3	658.6
			Approach	1430	0					
			Total	3230	3060					
20	12340	12340	Bridge	1800	3390	659.0	0.1	0.4	659.1	659.4
			Approach	2600	0					
			Total	4400	3390					
100	18570	18570	Bridge	1800	3750	661.0	0.3	0.2	661.3	661.2
			Approach	5200	1500					
			Total	7000	5250					
Maximum or Overlapping	25	13160	Bridge	1800	3500	659.3	0.1	0.3	659.4	659.6
			Approach	2990	0					
			Total	4790	3500					

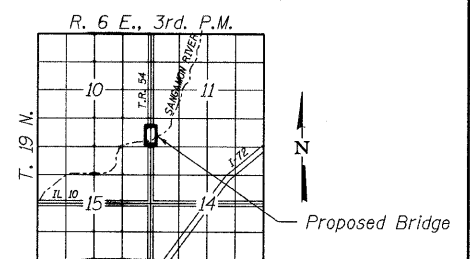
PROFILE GRADE

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".

Michael D. Cina
ILLINOIS STRUCTURAL NO. 081-5984



2-9-2009
Expires 11-30-10



LOCATION SKETCH

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_y = 50,000$ p.s.i. (Structural Steel) (M270 GR. 50 W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.048g
Site Coefficient (S) = 1.0

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	Pier 3	N. Abut.
	647.3	636.9	633.7	636.5	647.3

DESIGNED - M.D.C.
CHECKED - S.M.S.
DRAWN - D.A.B.
CHECKED - M.G.B.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

HLR 3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 12-76-0001-1 DATE: 12/22/08

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154	03-06130-00-BR	PIATT	57	13
SANGAMON ROAD DISTRICT		CONTRACT NO. 91385		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL PLAN AND ELEVATION
T.R. 154 OVER SANGAMON RIVER
SECTION 03-06130-00-BR
PIATT COUNTY
STATION 10+20.00
STRUCTURE NO. 074-3296