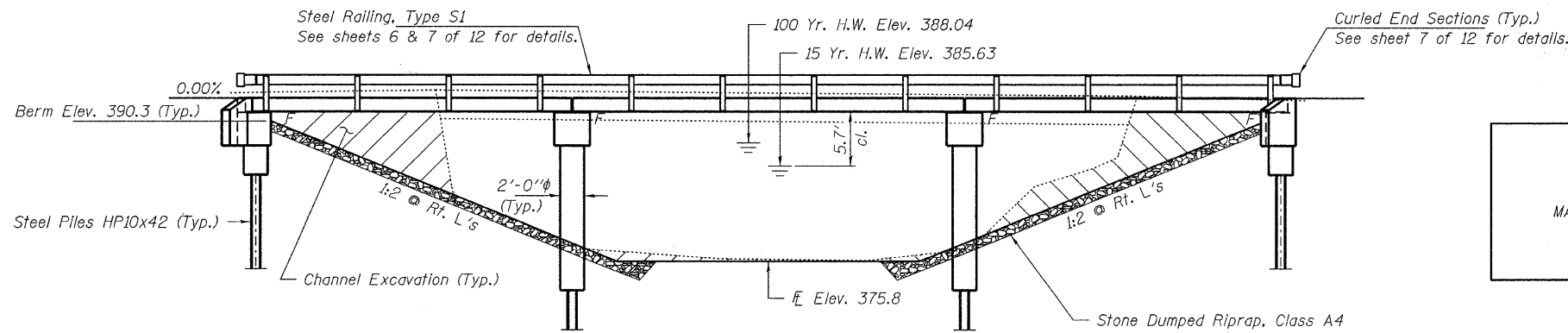


EXISTING STRUCTURE: Two span bridge with steel deck on I beams with concrete mudwalls and timber pile piers. 73.0' bk.-bk. abuts. Str. No. 096-3112 Structure closed to traffic.

No Salvage

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at West Abutment and Pier 2 or approved by the Engineer before ordering the remainder of piles.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Excavation required to construct the Abutments and Piers 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.

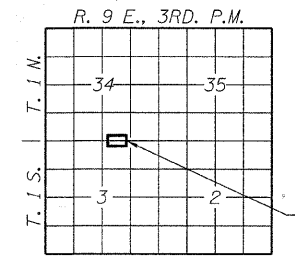


BUILT 201 BY
WAYNE COUNTY
SEC. 09-16122-00-BR
MASSILON ROAD DISTRICT
STR. NO. 096-3455
LOADING HL-93

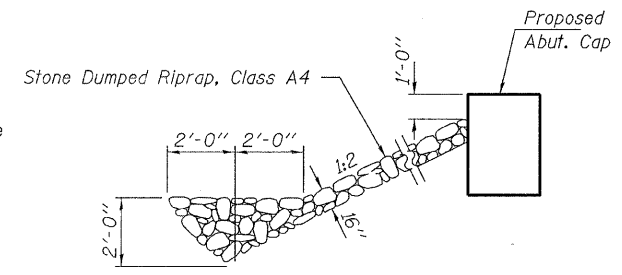
INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. 17"x48" PPC Deck Beam - Spans 1 & 3
3. 17"x48" PPC Deck Beam - Spans 1 & 3
4. 17"x48" PPC Deck Beam - Span 2
5. 17"x48" PPC Deck Beam - Span 2
6. Superstructure Details
7. Steel Railing, Type S1
8. Abutments
9. Piers
10. HP Pile Details
- 11-12. Borings

NAME PLATE

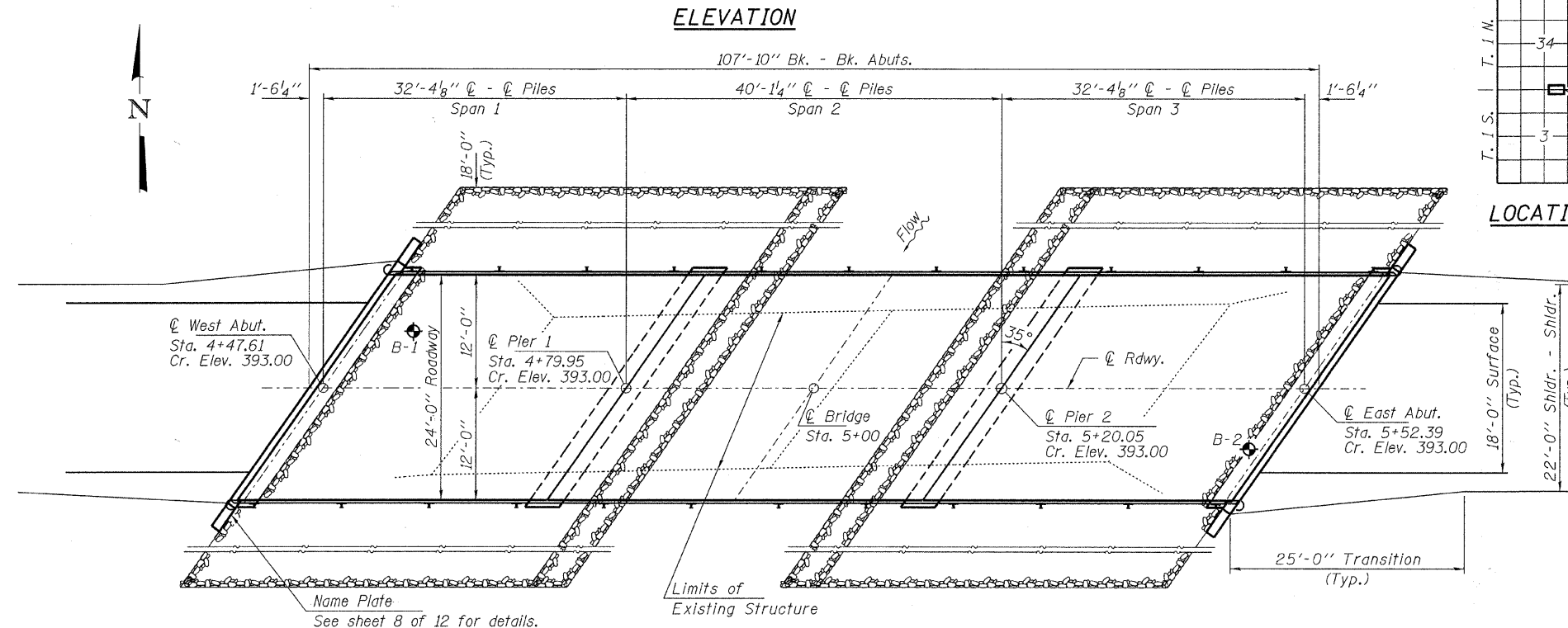


LOCATION SKETCH



SECTION A-A

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



PLAN

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'cl = 5,000 psi
fpu = 270,000 psi (1/2" φ low lax. strands)
fpbt = 201,960 psi (1/2" φ low lax. strands)
fy = 60,000 psi (Reinf.)

LOADING HL-93

Design Specifications: 2010 AASHTO LRFD with all applicable interims.
50#/Sq. Ft. included in dead load for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 12
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.268g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.645g
Soil Site Class = D

WATERWAY INFORMATION

Drainage Area = 10.6 Sq. Mi.		Existing Low Grade Elev. 388.7 @ Sta. 10+00		Proposed Low Grade Elev. 388.7 @ Sta. 10+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Natural H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	15	1507	395 420	385.63 0.1 0.1	385.73 385.73	
Base	100	2470	525 581	388.04 0.1 0.1	388.14 388.14	
Max. Calc.	500	-	-	-	-	-

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			388
Stone Dumped Riprap, Class A4	Ton			440
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		50.6	50.6
Concrete Encasement	Cu. Yd.		21.4	21.4
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2,544		2,544
Reinforcement Bars	Pound		5,010	5,010
Steel Railing, Type S1	Foot	210		210
Furnishing Steel Piles HP10x42	Foot		800	800
Driving Piles	Foot		800	800
Test Pile Steel HP10x42	Each		2	2
Name Plates	Each		1	1

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 4/5/11
ILLINOIS STRUCTURAL NO. 081-6064 Expires 11-30-2012

