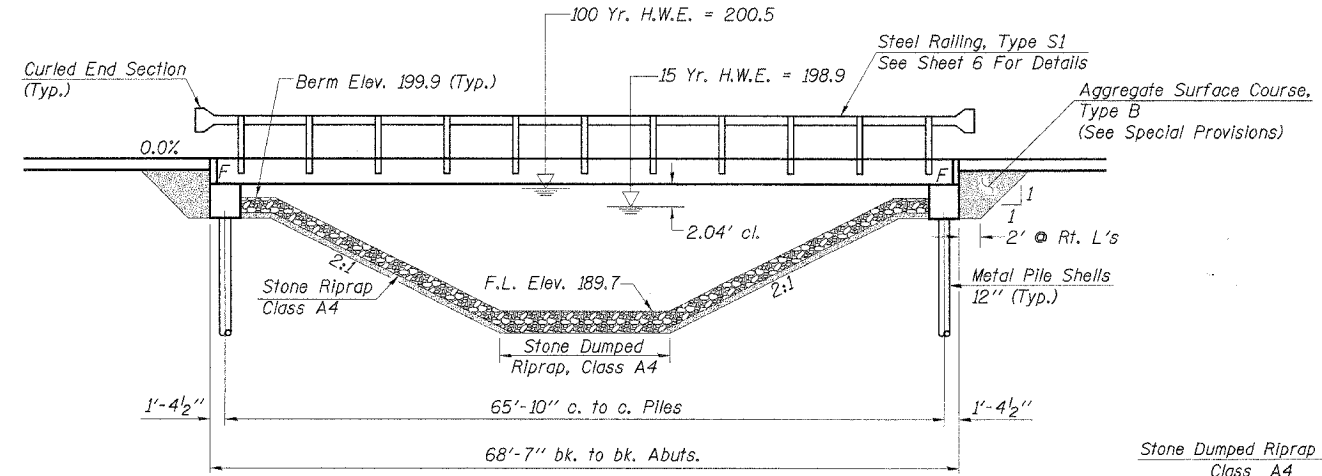
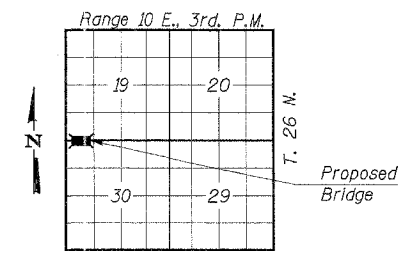


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 227	94-24122-00-BR	IROQUOIS	15	4
ROAD DIST.	ILLINOIS		RIDGELAND	

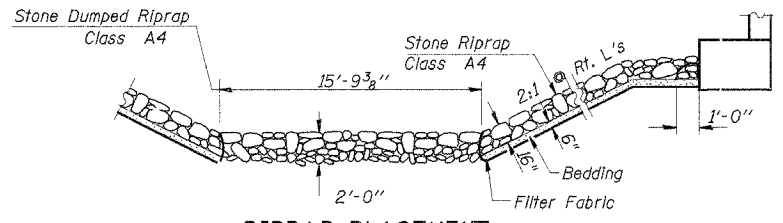
CONTRACT NO. 87298



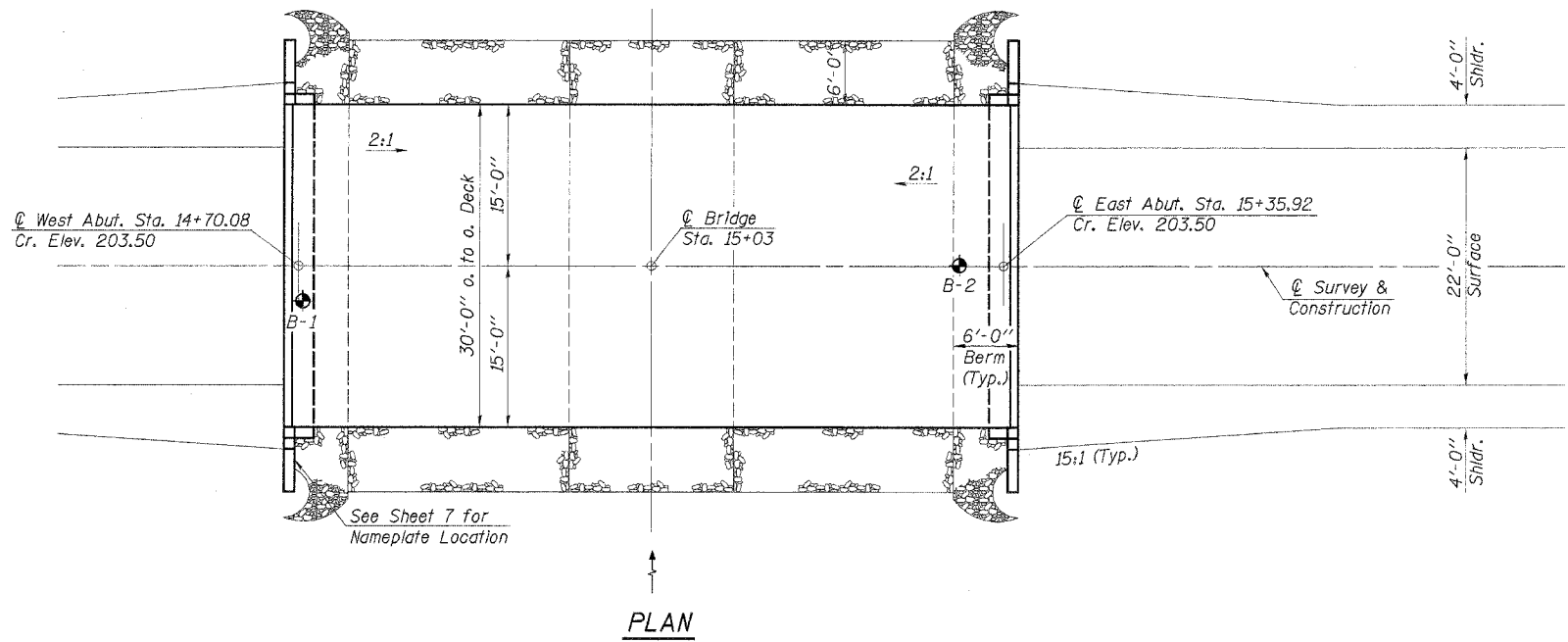
ELEVATION



LOCATION PLAN



RIPRAP PLACEMENT



PLAN

GENERAL NOTES

See sheets 9 & 10 for Boring data.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

The Contractor shall drive one metal shell test pile in a permanent location at each abutment as directed by the Engineer, before ordering the remainder of piles.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Aggregate Surface Course, Ty. B shall be used to backfill behind each abutment as indicated by the Engineer. The additional quantity of CA-10 is included in the total quantity for Aggregate Surface Course, Ty. B. (See Special Provisions).

BUILT 200_ BY
RIDGELAND ROAD DISTRICT
IROQUOIS COUNTY
SEC. 94-24122-00-BR
F.A. PROJ. BROS-075(127)
LOADING HS20
STR. NO. 038-5355

LETTERING FOR NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2010		2010
Concrete Structures	Cu. Yd.		26.8	26.8
Reinforcement Bars	Pound		3400	3400
Steel Railing, Type S1	Foot	134		134
Name Plates	Each		1	1
Metal Pile Shells 12"	Foot		400	400
Test Pile Metal Shells	Each		2	2
Stone Riprap, Class A4	Ton		182	182
Filter Fabric For Use with Riprap	Sq. Yd.		248	248
Aggregate Surface Course, Type B	Ton		88	88
Stone Dumped Riprap, Class A4	Ton		81	81

WATERWAY INFORMATION

Drainage Area	5.14 Sq. Mi.
Existing Opening (15 Yr.)	183 Sq. Ft.
Required Opening (15 Yr.)	315 Sq. Ft.
Proposed Opening (15 Yr.)	315 Sq. Ft.
Design Discharge (15 Yr.)	707 C.F.S.
Created Head (15 Yr.)	0.1 Ft.
100 Year Discharge	1098 C.F.S.
100 Yr. Created Head	0.2 Ft.

DESIGN STRESSES

$f'_c = 5,000$ p.s.i. (Prestressed Beams)
 $f'_{bi} = 4,000$ p.s.i. (Prestressed Beams)
 $f'_c = 1,400$ p.s.i. (Concrete)
 $f'_s = 270,000$ p.s.i. (Prestressed Strands)
 $f_{si} = 201,960$ p.s.i. (Prestressed Strands)
 $f'_s = 24,000$ p.s.i. (Reinf. Bars -- Field Units)
 $f_y = 60,000$ p.s.i. (Reinf. Bars -- Field Units)
 $n = 9$ (Concrete)
 LOADING HS20-44
 Design Specifications: 2002 AASHTO
 25#/Sq. Ft. included in dead load for future wearing surface.

"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'."



ILLINOIS STRUCTURAL NO. 2934 (Expires 11/30/06)

DESIGNED	S.F.M.
CHECKED	F.J.S.
DRAWN	S.A.P. & J.P.S.
CHECKED	S.F.M.

GENERAL PLAN & ELEVATION

SECTION 94-24122-00-BR
RIDGELAND ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+03

4440 ASH GROVE
SPRINGFIELD, IL 62711
(217) 793-8600
oasinc@tamvid.com

OZYURT AND STONE, INC.
CONSULTING ENGINEERS

JOB NO.: 0405
FILE: GPE.DGN
DATE: 10-07-04