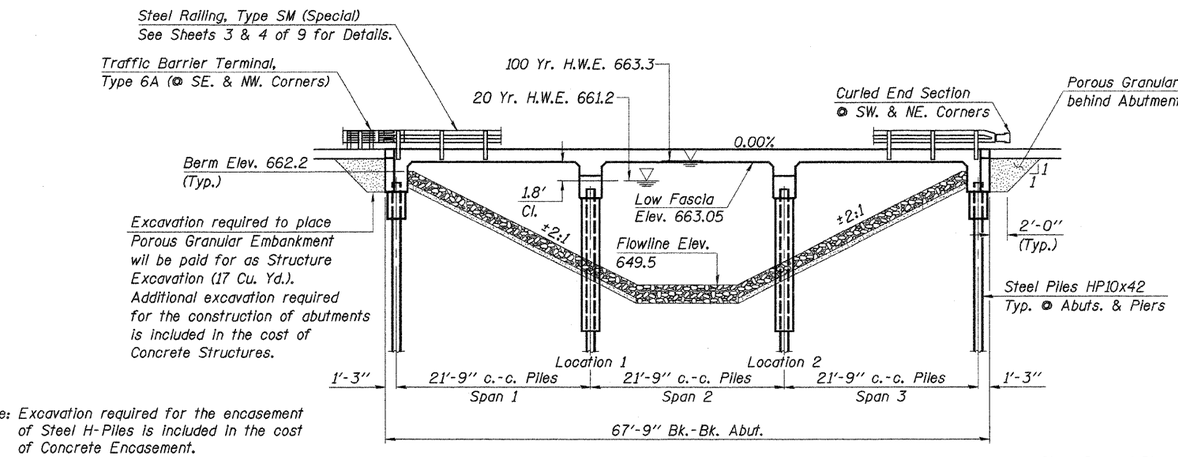
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8	06-00098 -01-BR	IROQUOIS	18	5
ROAD DIST.	ILLINOIS			

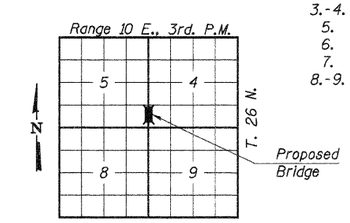
Sheet 1 of 9 CONTRACT NO. 87447



ELEVATION

Note: Excavation required for the encasement of Steel H-Piles is included in the cost of Concrete Encasement.

Note: Porous Granular Embankment is to be placed behind the abutment. The Porous Granular Embankment material shall be placed as shown directly under and for the full-width of the Base Course of the approach roadway. Beyond the side limits of the Aggregate Base Course of the approach roadway, the Porous Granular Embankment material shall diminish in height from the full depth shown, utilizing a lateral slope of 1:1, to the bottom of the abutment cap at Elevation 659.72.



LOCATION PLAN

INDEX OF SHEETS

GENERAL NOTES

See proposal & sheets 8 & 9 of 9 for Boring data.

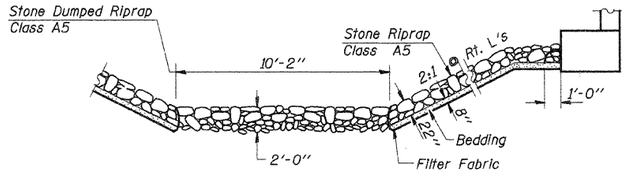
Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60.

The Contractor shall drive one Steel HP10x42 test pile in a permanent location at the South Abutment and at Pier #2 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.

Protective Coat shall also be applied to deck fascias, exposed portions of the wings, and ends of pier and abutment caps.

All exposed portions of abutments, wingwalls, and piers shall receive a rubbed finish in accordance with Article 503.15(b) of the Standard Specifications. Cost to be included in the cost of Concrete Superstructure and Concrete Structures.

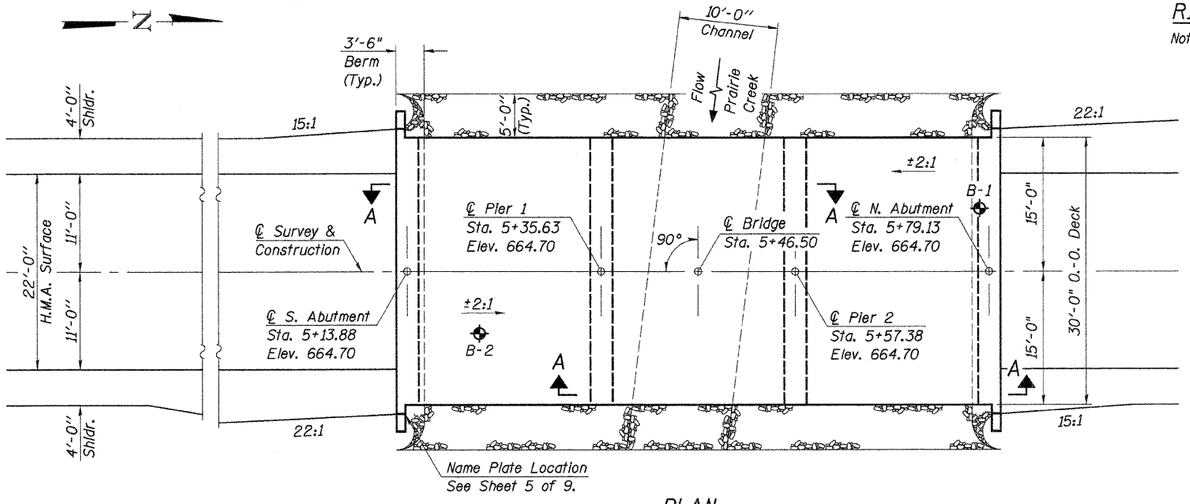


SECTION A-A

RIPRAP PLACEMENT DETAIL

Note: Excavation and aggregate bedding will not be paid for as separate items and shall be considered as included in Stone Riprap, Class A5 and Stone Dumped Riprap, Class A5.

PRAIRIE CREEK
BUILT 20__ BY
IROQUOIS COUNTY
SEC. 06-00098-01-BR
F.A.S. RT. 319
STR. NO. 038-4011
LOADING HL-93



PLAN

LETTERING FOR NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Superstructure	Cu. Yd.	95.4		95.4
Concrete Structures	Cu. Yd.		33.2	33.2
Reinforcement Bars, Epoxy Coated	Pound	23,860	6,010	29,870
Steel Railing, Type SM (Special)	Foot	136		136
Name Plates	Each		1	1
Furnishing Steel Piles HP10x42	Foot		752	752
Driving Piles	Foot		752	752
Test Pile Steel HP10x42	Each		2	2
Stone Riprap, Class A5	Ton		267	267
Stone Dumped Riprap, Class A5	Ton		50	50
Filter Fabric	Sq. Yd.		265	265
Porous Granular Embankment	Ton		62	62
Structure Excavation	Cu. Yd.		17	17
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Concrete Encasement	Cu. Yd.		20.0	20.0
Bridge Deck Grooving	Sq. Yd.	211		211
Protective Coat	Sq. Yd.	247	9	256

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.115 g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.184 g
Soil Site Class = D

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.R.K. & A.L.S.

WATERWAY INFORMATION

Drainage Area	4.01 Sq. Mi.
Existing Opening (20 Yr.)	230 Sq. Ft.
Required Opening (20 Yr.)	355 Sq. Ft.
Proposed Opening (20 Yr.)	355 Sq. Ft.
Design Discharge (20 Yr.)	422 C.F.S.
Created Head (20 Yr.)	0.0 Ft.
100 Year Discharge	631 C.F.S.
100 Yr. Created Head	0.0 Ft.

DESIGN STRESSES

f'_c = 3,500 p.s.i. (Concrete)
f_y = 60,000 p.s.i. (Reinf. Bars)
LOADING HL93
Design Specifications: 2007 AASHTO LRFD & Interims
50#/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 LRFD Bridge Design Specifications'".

John A. Morris 12-16-09
ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/10)

LICENSED STRUCTURAL ENGINEER
JOHN A. MORRIS
NO. 81-4277
STATE OF ILLINOIS

GENERAL PLAN & ELEVATION
COUNTY HIGHWAY 8
SECTION 06-00098-01-BR
IROQUOIS COUNTY
STATION 5+46.50

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FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL. ROCKFORD, IL. ROCHELLE, IL. MOMENCE, IL. SPRINGFIELD, IL.

JOB NO.:	09-202
FILE:	GPE.DGN
DATE:	10/23/09