

Bench Mark:
Chiseled "□" on S.W. Wingwall
of existing structure.
Elev. = 100.00

Existing Structure: The structure is a single span
steel through truss bridge on open abutments.
Length 59.9' B. to B. of abutments. Clear Span of 58.3'.
Width 15.9' O. to O. of deck.

Road will be closed to traffic during construction.

No salvage.

WATERWAY INFORMATION									
Drainage Area= 19.1 sq. mi. Low Grade Elev.= 98.79 @ Sta. 12+00 Exist./99.49 @ Sta. 12+81 Prop.									
Flood	Freq. Yr.	Q C.F.S.	Opening sq. ft.		Nat. H.W.E.	Head - ft.		Headwater el.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1525	323	350	99.4	0.3	0.1	99.8	99.5
Design	15	1659	348	356	99.5	0.4	0.2	99.9	99.7
Base	100	2552	594	486	100.1	0.3	0.3	100.4	100.4
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3247	789	603	100.4	0.3	0.5	100.6	100.9

DISTRICT	SECTION	COUNTY	DATE	HEET
E. 3150	*	BUREAU	15	4

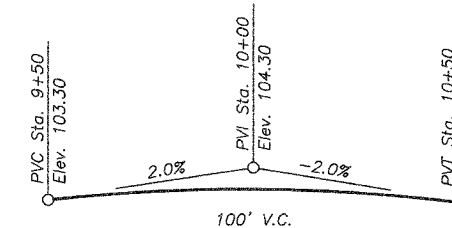
Sheet 1
of 9 Sheets

* 04-04113-00-BR

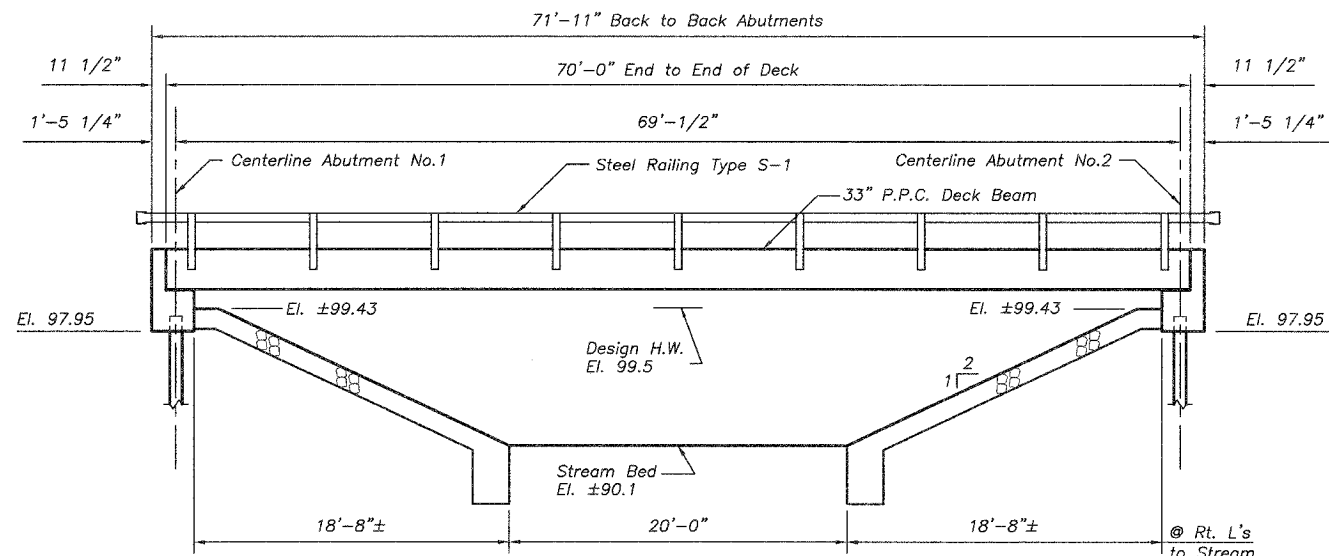
BUILT 200 BY
CLARION TOWNSHIP
BUREAU COUNTY
SEC. 04-04113-00-BR
STA. 10+00
STR. NO. 006-4051 LOADING HS20

NAME PLATE

Std. 515001

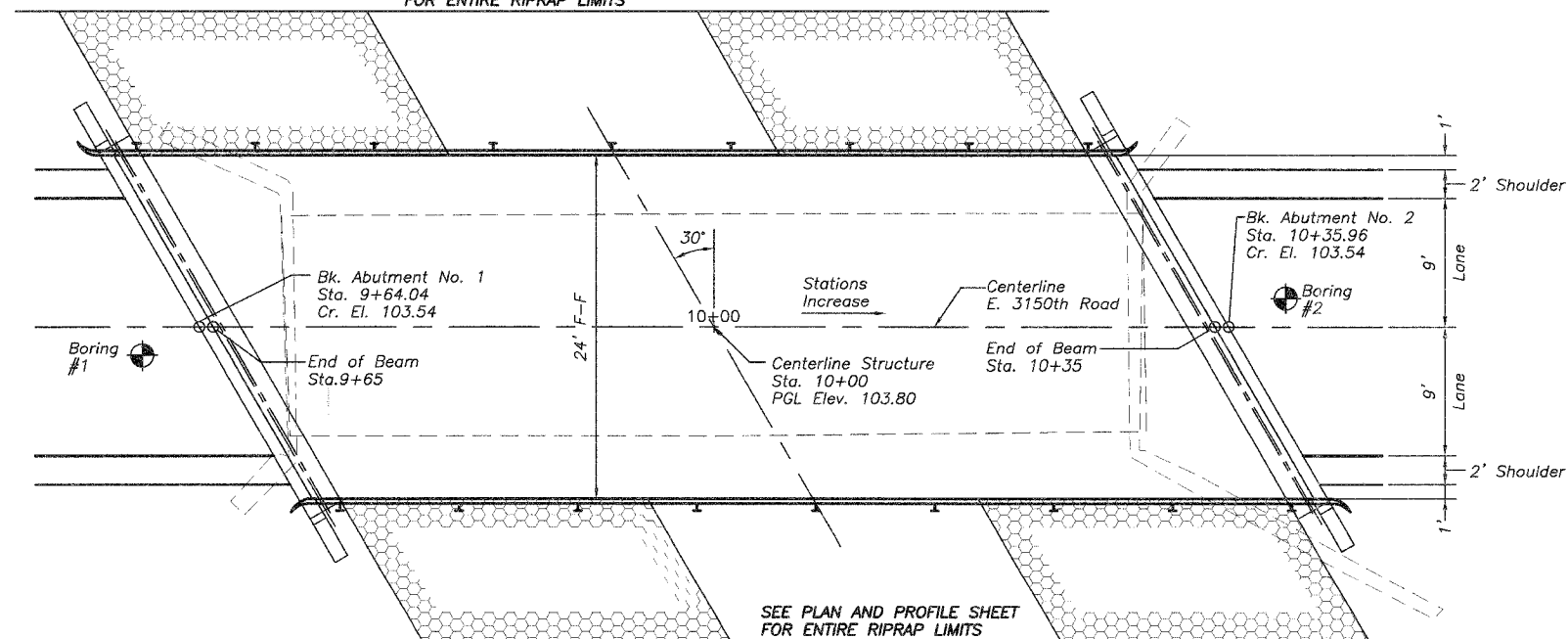


PROFILE GRADE
(Along Centerline Roadway)



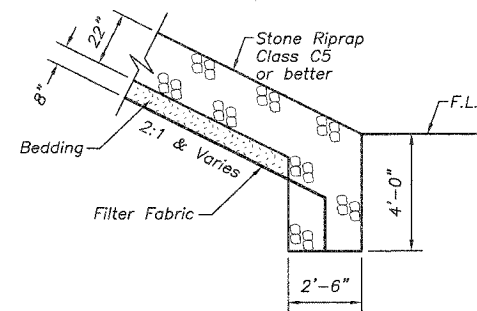
ELEVATION

SEE PLAN AND PROFILE SHEET
FOR ENTIRE RIPRAP LIMITS



PLAN

SEE PLAN AND PROFILE SHEET
FOR ENTIRE RIPRAP LIMITS



SECTION A-A

General Notes

- The Contractor shall drive 1 test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- For backfilling and embankment, see Standard Specifications.
- Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- In accordance with Article 502.15 of the Standard Specifications the cost for Structure Excavation shall be considered as included in the contract unit price for Concrete Structures.

LOADING

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN LOADING

HS 20-44

DESIGN STRESSES

Precast units:

- f'c = 5,000 PSI
- f'ci = 4,000 PSI
- fs' = 270,000 PSI (1/2 Dia. Strand)
- fs'i = 201,960 PSI (1/2 Dia. Strand)
- fy = 65,000 PSI (Welded wire fabric)
- fy = 60,000 PSI (Reinf.)

Field units:

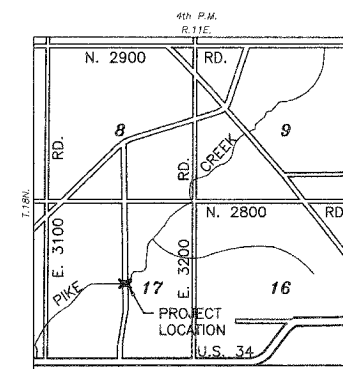
- f'c = 3,500 PSI
- fy = 60,000 PSI (Reinf.)

SEISMIC DATA

- S.P.C. = A
- A = 0.4
- S = 1.5

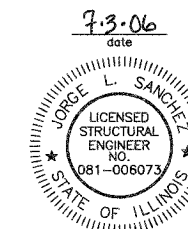
TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Removal of Existing Structures	Each	1
Name Plates	Each	1
Concrete Structures	Cu Yd	21.6
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1680
Steel Railing, Type S-1	Foot	140
Furnishing Concrete Piles	Foot	362
Driving Concrete Piles	Foot	362
Test Pile Concrete	Each	1
Dumped Rip Rap, Special	Ton	358
Reinforcement Bars	Pound	2680
Portland Cement Fairing Course	Foot	545



LOCATION SKETCH

GENERAL PLAN
E. 3150 TH ROAD OVER PIKE CREEK
SECTION 04-04113-00-BR
BUREAU COUNTY
STA. 10+00
SN 006-4051



7-3-06
date
signature
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717

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".