

**Existing Structure:**

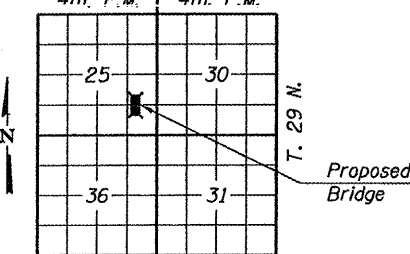
S.N. 043-3011: Two span continuous steel wide flange beam with a reinforced concrete deck on reinforced concrete stub abutments and a reinforced concrete solid wall pier. Structure length is 140'-0" back to back of abutments, and bridge width is 23.1' out to out of deck. No Skew. To be removed by contractor. No Salvage.

**Bench Mark:**

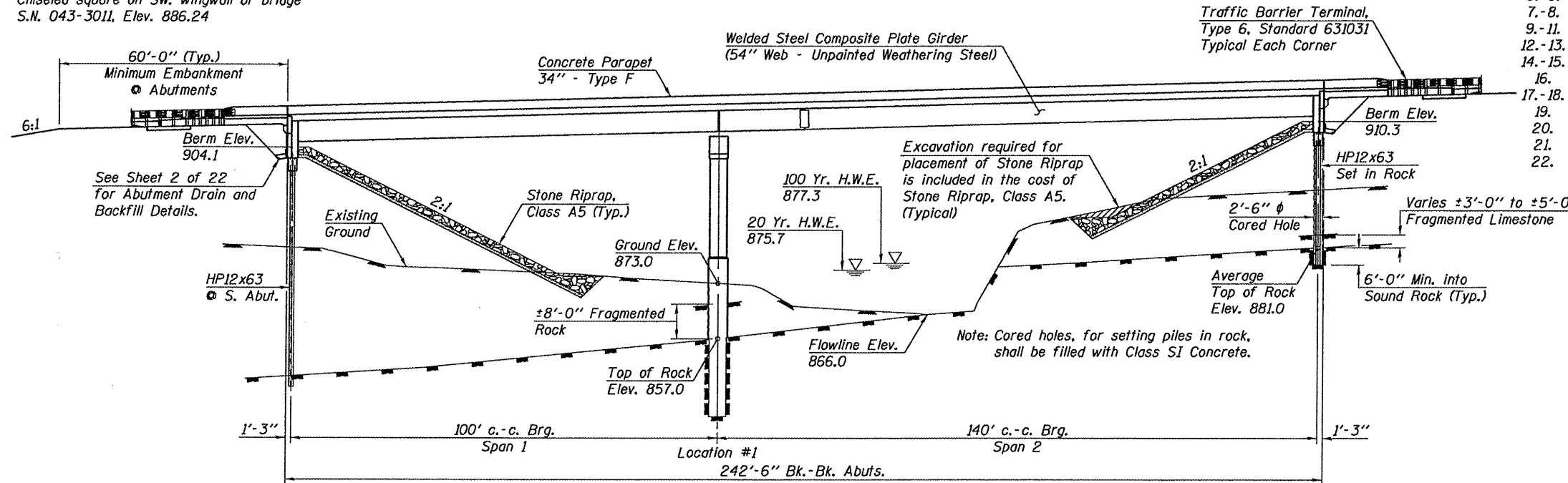
Chiseled square on SW. wingwall of bridge  
S.N. 043-3011, Elev. 886.24

**INDEX OF SHEETS**

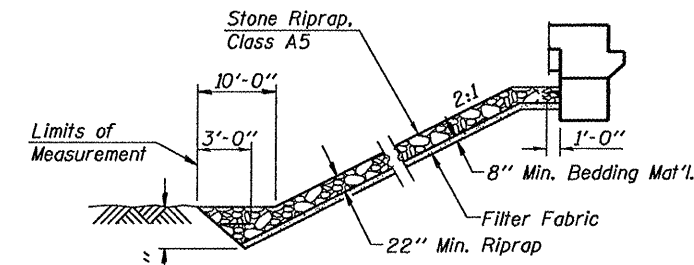
1. General Plan and Elevation
2. General Notes, Total Bill of Material, & Miscellaneous Details
- 3.-6. Top of Slab Elevations
- 7.-8. Top of Approach Slab Elevations
- 9.-11. Superstructure Details
- 12.-13. Bridge Approach Slab Details
- 14.-15. Structural Steel Plan and Details
16. Bearing & Anchor Bolt Details
- 17.-18. Abutment Details
19. Pier Details
20. Steel Pile Details
21. Bar Splicer Details
22. Drainage Scupper, DS-11



**LOCATION PLAN**

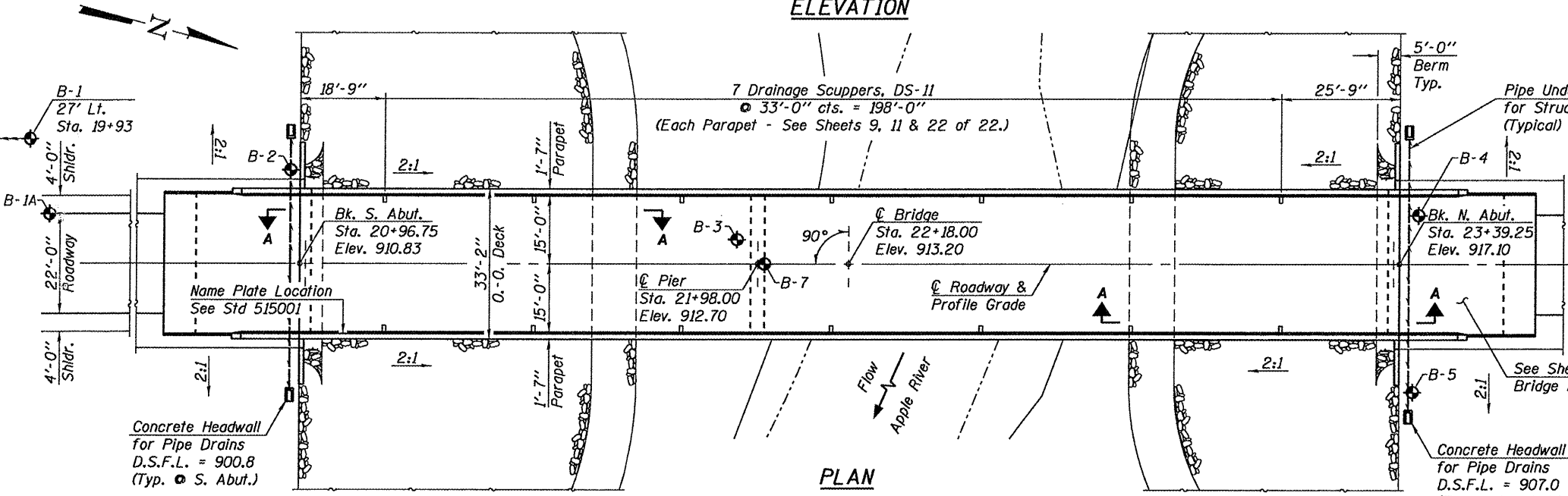


**ELEVATION**



**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.



**PLAN**

**DESIGN SPECIFICATIONS**  
2002 AASHTO

**DESIGN STRESSES**

f'c = 3,500 psi (Concrete)  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (Structural Steel, M270W, Grade 50)

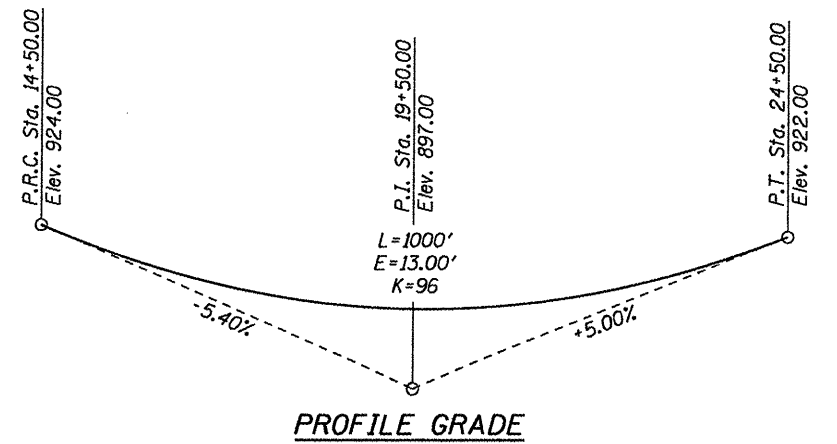
**LOADING HS20-44**  
Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = A  
Bedrock Acceleration Coefficient (A) = 0.03  
Site Coefficient = 1.0

**WATERWAY INFORMATION**

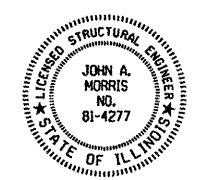
Drainage Area	29.53 Sq. Mi.
Existing Opening (20 Yr.)	425 Sq. Ft.
Required Opening (20 Yr.)	509 Sq. Ft.
Proposed Opening (20 Yr.)	509 Sq. Ft.
Design Discharge (20 Yr.)	3,456 C.F.S.
Created Head (20 Yr.)	0.3 Ft.
100 Year Discharge	5,268 C.F.S.
100 Yr. Created Head	0.4 Ft.



**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'."

John A. Morris 11-8-11  
ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/12)



**GENERAL PLAN & ELEVATION**  
**C.H. 9 - SCOUT CAMP ROAD**  
**SECTION 06-00127-00-BR**  
**JO DAVIESS COUNTY**  
**STATION 22+18.00**  
**S.N. 043-3270**

DESIGNED	J.A.M.
CHECKED	A.L.S. & A.R.K.
DRAWN	S.A.P.
CHECKED	J.A.M. & A.L.S.

**FEHR-GRAHAM & ASSOCIATES, LLC**  
ENGINEERING AND SCIENCE CONSULTANTS  
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL  
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	06-00127-00-BR	JO DAVIESS	55	10
SCOUT CAMP ROAD		CONTRACT NO. 85539		
ILLINOIS				