93421

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CR 603	02-23118-00-BR	ADAMS	13	6
STA. 4+70.00		TO STA. 10+16.18		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		

BRIDGE PLANS SHEET 1 OF 8

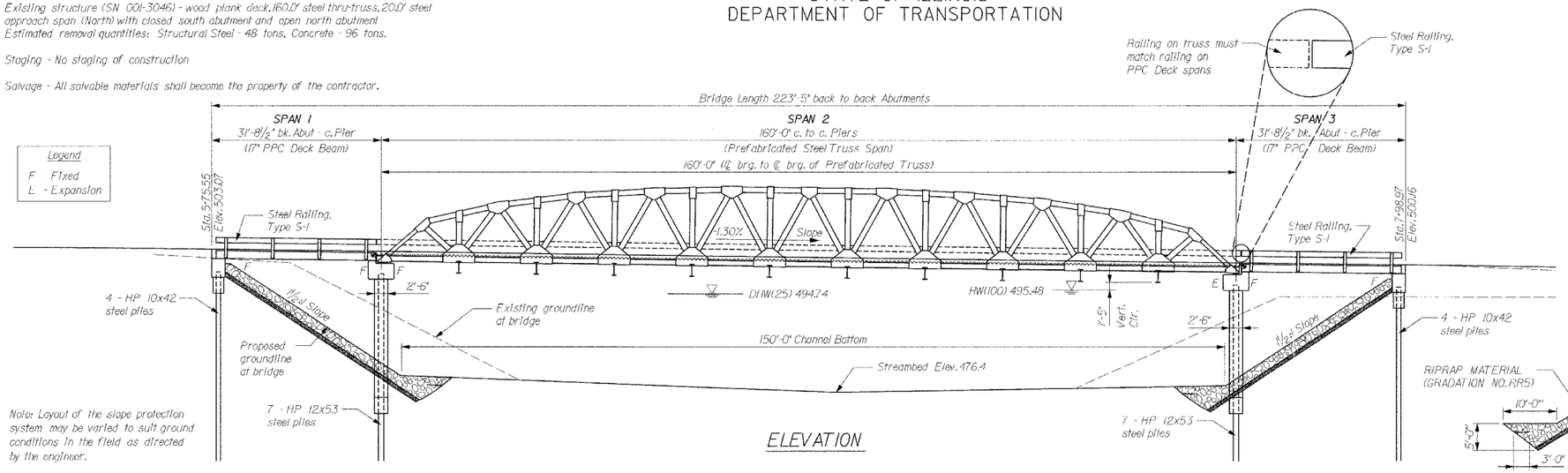
Benchmark #1 - RR spike in power pole at sta. 2+86 right of centerline, Elev. 503.56

Existing structure (SN 001-3046) - wood plank deck, 160.0' steel thru-truss, 20.0' steel approach span (North) with closed south abutment and open north abutment
Estimated removal quantities: Structural Steel - 48 tons, Concrete - 96 tons.

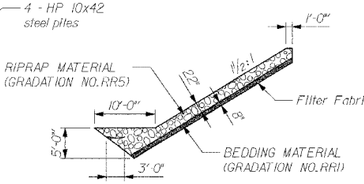
Staging - No staging of construction

Salvage - All salvable materials shall become the property of the contractor.

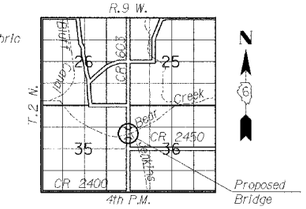
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



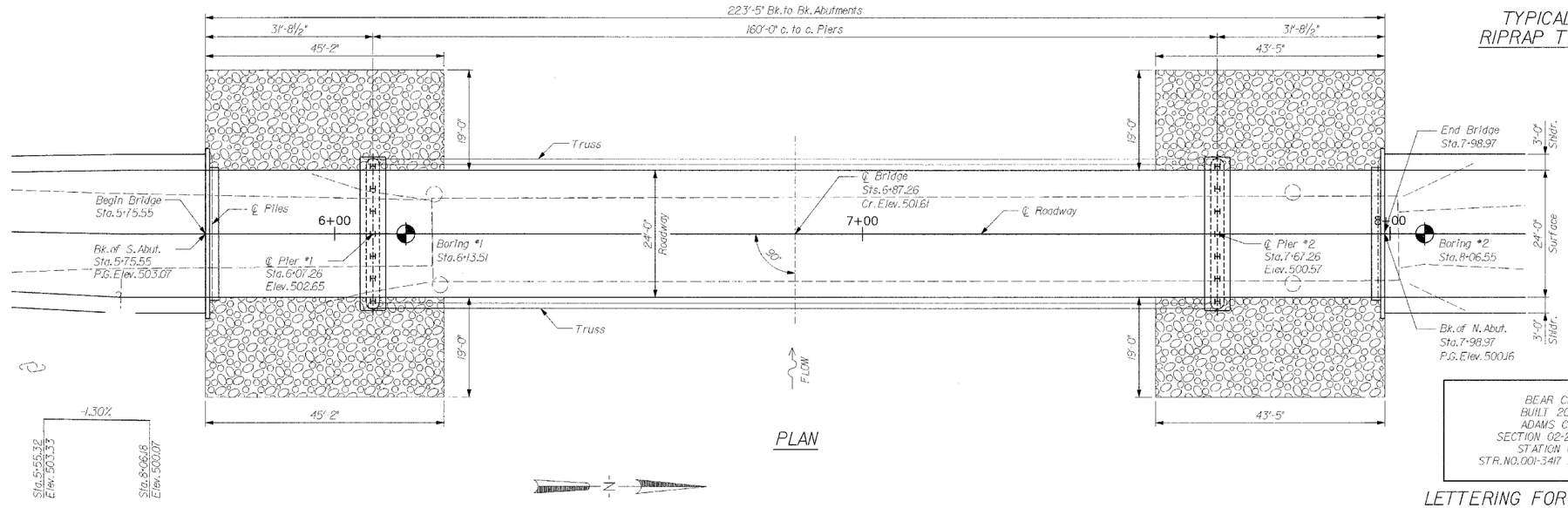
TYPICAL STONE RIPRAP TREATMENT



LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES & MISC. DETAILS
3	PPC DECK BEAM SUPERSTRUCTURE
4	SUPERSTRUCTURE DETAILS
5	STEEL RAILING, TYPE S-1
6	ABUTMENT DETAILS
7	PIER DETAILS
8	BRIDGE JOINT SYSTEM - FIXED
STDS.	STD.CN
	STD.CX-1



PLAN

PROFILE GRADE

Along ℄ Roadway

HIGHWAY CLASSIFICATION

CR 603
Class: Local Road
A.D.T.: 90
Design Speed: 30 mph
Posted Speed: 30 mph

DESIGN STRESSES

(FIELD UNITS)
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (structural steel)

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 25#/sq.ft. For Future Wearing Surface

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.045
Site Coefficient (S) = 1.2

BEAR CREEK
BUILT 20___ BY
ADAMS COUNTY
SECTION 02-23118-00-BR
STATION 6+87.26
STR. NO. 001-3417 LOADING HS20

LETTERING FOR NAME PLATE

Locate name plate at southeast corner of bridge (See Std. CN)

WATERWAY INFORMATION

Drainage Area = 379.2 sq.mi. Low Grade Elev. = 492.02 ft. @ Sta. 18+00.31

Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.	Exist.	Prop.	Natural H.W.E.	Head Ft. Exist.	Head Ft. Prop.	Headwater Elev. Exist.	Headwater Elev. Prop.
Design	25	24,122	Bridge	2,432	2,973	494.74	0.34	0.00	495.08	494.74
			Appr.	4,317	3,178					
Base	100	31,479	Bridge	2,575	3,120	495.45	0.44	0.03	495.89	495.48
			Appr.	5,588	4,317					
Overtopping										
Max. Calc.	500	40,426	Bridge	2,759	3,351	496.62	0.31	0.01	496.93	496.63
			Appr.	7,237	6,103					

This structure has been designed to be stable for scour conditions in accordance with the FHWA Technical Advisory T-5140.23 "Evaluating Scour At Bridges" and Hydraulic Engineer Circular 18 - Evaluating Scour At Bridges.

I certify that to the best of my knowledge, information and belief, this bridge 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". Sheets 6 through 13.

D.S.P.
Signature

5-18-06
Date

DAVID S. POLAND
081-005124
LICENSED STRUCTURAL ENGINEER
OF QUINCY
ILLINOIS

DAVID S. POLAND
LICENSED STRUCTURAL ENGINEER
QUINCY, ILLINOIS
EXPIRES: 11/30/06

REVISIONS NAME	DATE

GENERAL PLAN & ELEVATION

CR 603E OVER
BEAR CREEK
SEC 02-23118-00-BR
ADAMS COUNTY
STA 6+87.26
STRUCTURE NUMBER 001-3417

SCALE: VERT. N/A
HORIZ. N/A
DATE: MAY 2006

DRAWN BY JLS
CHECKED BY DSP

PSBA Project No.: R-03-013