B.M. - B.M. #1, R.R. Spike in Power Pole, 20.54' RT., STA. 51+20.19, EL. 498.77
B.M. #2, R.R. Spike in Telephone Pole, 19.79' LT., STA. 49+47.89, EL. 511.82

Existing Structure - Single span steel stringers with bituminous overlay on concrete slab on closed concrete abutments and concrete wingwalls.

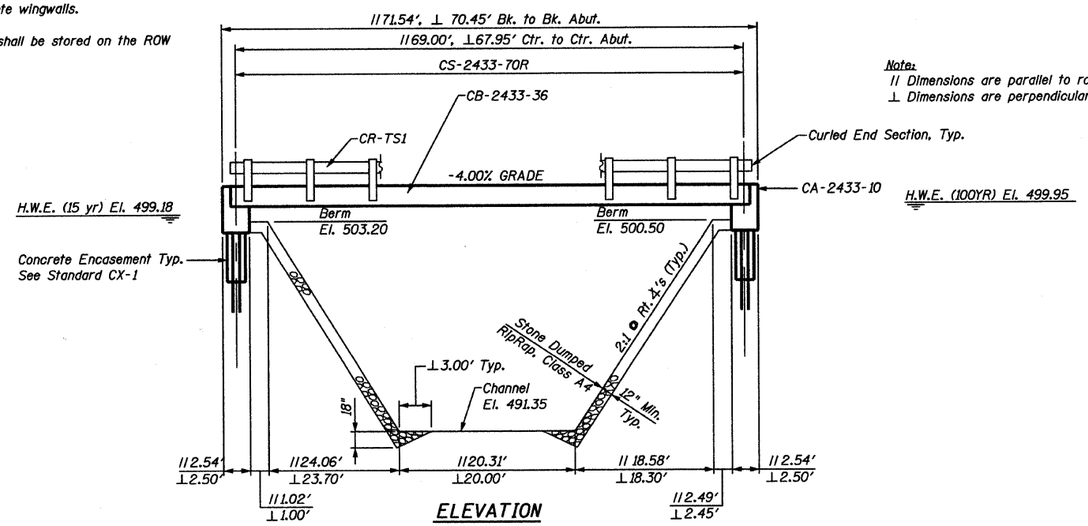
Salvage - Material deemed salvageable by the Engineer shall be stored on the ROW for removal by the County.

Existing Known Utilities - Overhead electric, Telephone

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

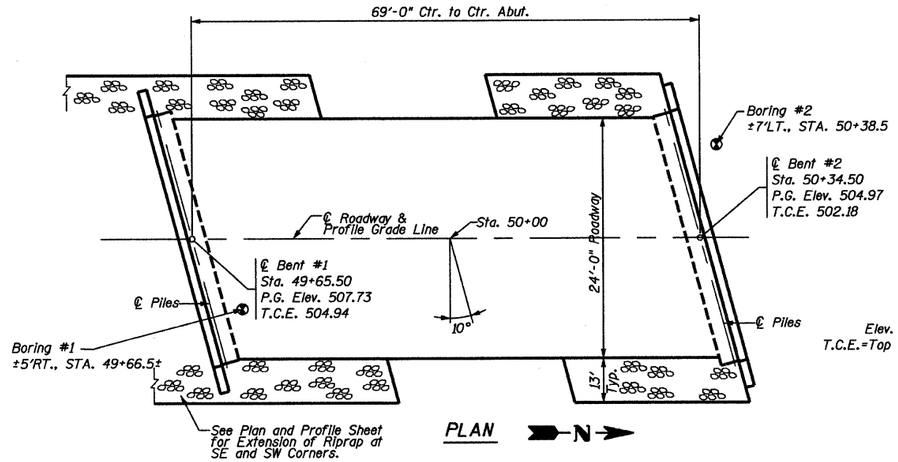
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 78	03-02125-00-BR	FAYETTE	12	4
FED. AID PROJECT NO.		ILLINOIS		

CONTRACT NO. 95540



ELEVATION

Note:
// Dimensions are parallel to roadway
⊥ Dimensions are perpendicular to channel



PLAN ➡N➡

Elev.
T.C.E.=Top of Cap

GENERAL NOTES

1. The contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. A corrosion inhibitor shall be used in the concrete for the precast, prestressed concrete deck beams, according to Article 1020.05(b)(12) of the Standard Specifications.
4. The Waterproofing Membrane System and Bituminous Concrete Surface Course Shown on the Standards Shall Not be Provided.
5. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified).

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yd.			19.2	19.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1680			1680
Steel Railing, Type S-1	Foot	140			140
Reinforcement Bars	Pound			2340	2340
Furnishing Steel Piles HP 10x42	Foot			417	417
Driving Piles	Foot			417	417
Test Pile Steel HP 10x42	Each			1	1
Name Plates	Each			1	1
Concrete Encasement	Cu. Yd.			2.58	2.58

The standard detail sheets for this structure were assembled by me or persons under my direct supervision.

Date: 12/12/07

Date of License Expiration : 11/30/09

Signature: Michael R Quandt

MICHAEL R. QUANDT 062-042893 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

I certify these Standard Bridge Plans for foundation treatment only.

Date: 12/12/07

Date of License Expiration : 11/30/08

Signature: William D Siekpinz

WILLIAM D. SIEKPINZ 4361 REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS 20-44

Allow 25# / Sq. Ft. for Future Wearing Surface.

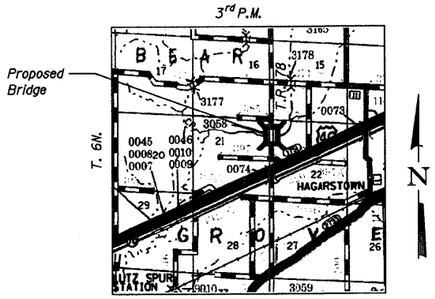
PILE DATA (2-ABUTS.)

Pile Type and Size:	Steel Piles, HP10x42
Nominal Required Bearing:	240 kips
Allowable Resistance Available:	80 kips
Estimated Pile Length:	45 Ft Bent #1, 48 Ft Bent #2
Number of Production Piles:	9
Number of Test Piles:	1 (Located in Bent #2)

STATION 50+00
TRIBUTARY TO HURRICANE CREEK
SEC. 03-02125-00-BR BUILT 20__
PROJECT NO. BROS-051(80)
FAYETTE COUNTY
LOADING HS20
STR. NO. 026-3440

LETTERING FOR NAME PLATE

Locate Name Plate at Northwest Corner of Bridge (See Std. CN)



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 8.04 Sq. Mi. Low Grade Elev. 499.86 ◐ Sta. 52+60

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Ft.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater Elev. - Ft. Exist.	Headwater Elev. - Ft. Prop.
Design	15	1621	242	280	499.18	N/A	0.56	N/A	499.74
Base	100	2600	265	320	499.95	N/A	1.00	N/A	500.95
Overtopping									
Max. Calc.	500								

GENERAL PLAN & ELEVATION
T.R. 78
OVER TRIB. TO HURRICANE CREEK
SECTION 03-02125-00-BR
FAYETTE COUNTY
STATION 50+00