

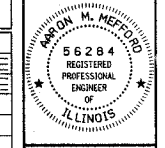
| | | | | |
|--------------------------------|----------------|------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 107 | 07-09125-00-BR | WHITE | 14 | 5 |
| FED. ROAD DIST. NO. 9 ILLINOIS | | LOST CREEK | | |
| PROJECT * BR05-193(40) | | CONTRACT * 99324 | | |
| LEC JOB # HUT1014WH | | | | |

388 W. 3RD ST.
P.O. BOX 160
MT. CARMEL, IL
62863
PHONE:
(618)-262-8661
FAX:
(618)-263-8927

405 W. STATE ST.
SUTTEI
PRINCETON, IN
47670
PHONE:
(812)-886-7611
FAX:
(812)-886-2612



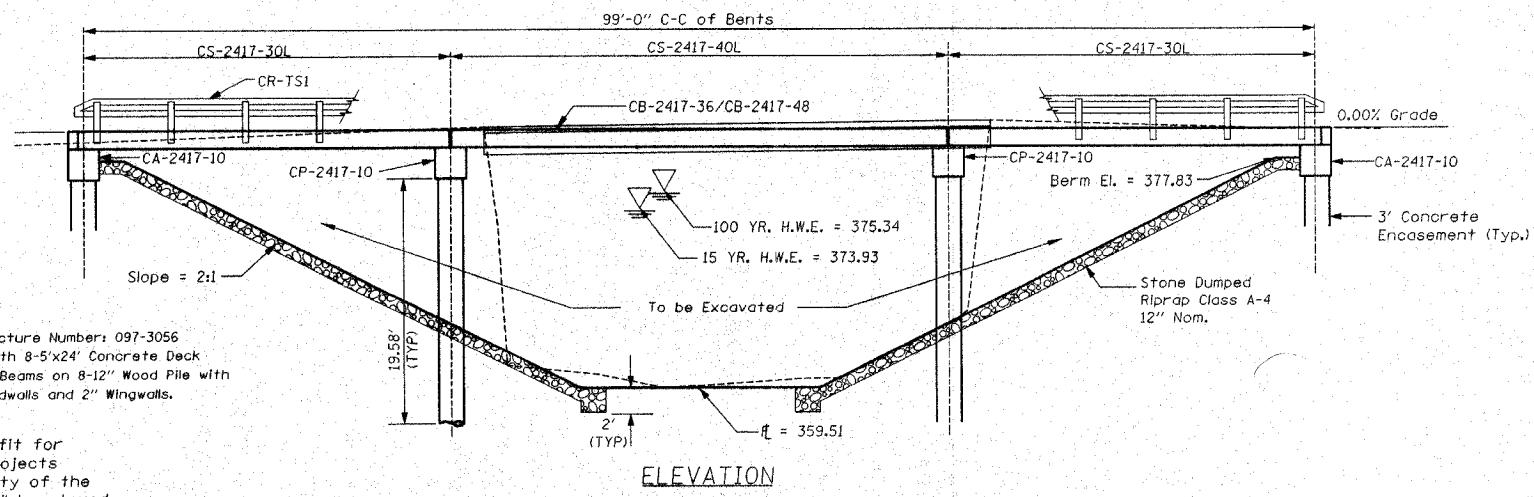
PROFESSIONAL
DESIGN FIRM
LAND SURVEY &
PROFESSIONAL
ENGINEERING
CORPORATION
184-00887
(82-02455)(35-002769)



AARON M. MEFFORD
NAME
SIGNATURE
3-19-08
DATE
11-30-08
EXPIRES

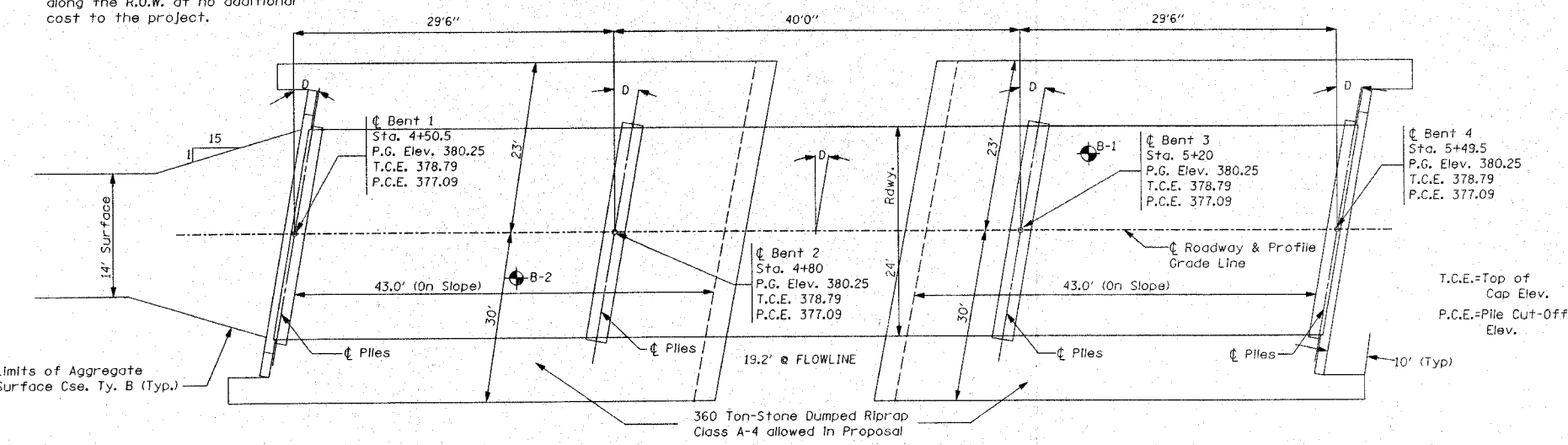
MILL SHOALS TOWNSHIP
OVER LOST CREEK
WHITE COUNTY, ILLINOIS

B.M.: I.P. ±1+12.86, 10.52' LT.
Elev. = 380.53



Existing Bridge Sta 5+02.2; Structure Number: 097-3056
A 40' Long Single Span Bridge with 8-5'x24" Concrete Deck
Beams with 6" Depth on 8-21" I-Beams on 8-12" Wood Pile with
14" I-Beam Caps and 2" Wood Mudwalls and 2" Wingwalls.

NOTE: All items deemed fit for
use on other County projects
shall become the property of the
County. These items shall be stored
along the R.O.W. at no additional
cost to the project.

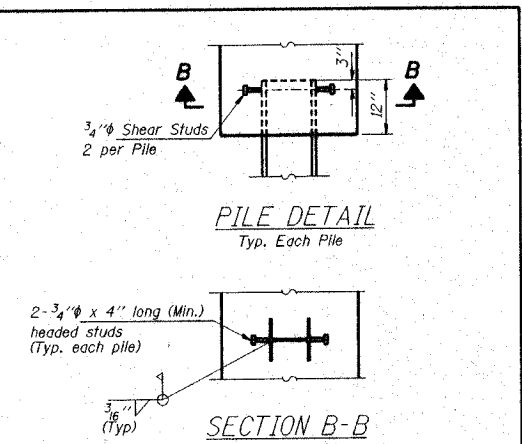


GENERAL NOTES

- The Contractor shall drive one test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.
- A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for Precast Prestressed Concrete Deck Beams.
- The Bit, Conc. Surf. Cse. and the Waterproofing Membrane System shown in these Plans shall not be provided.
- The Steel H-Piles shall be according to AASHTO M270 Grade 50.
- All HP piles shall be oriented with the strong axis along the centerline of the abutment.

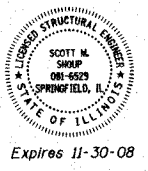
| Item | Unit | Super | Sub. Piers | Abuts. | Total |
|--------------------------------|---------|-------|------------|--------|-------|
| Removal of Existing Structures | L Sum | | | | 1 |
| Bit Conc Surf Cse. | Tons | | | | |
| Waterproofing Membrane System | Sq.Yds. | | | | |
| Concrete Structures | Cu.Yds. | | 14.8 | 16.6 | 31.4 |
| P.P. Conc. Dk. Bm. 17" Dp. | Sq.Ft. | 2400 | | | 2400 |
| Steel Rolling, Type S1 | Lin.Ft. | 200 | | | 200 |
| Reinforcement Bars | Lbs. | | 1860 | 2220 | 4080 |
| Furnishing Steel Piles HP10X42 | Lin.Ft. | | 272 | 228 | 500 |
| Driving Piles | Lin.Ft. | | 272 | 228 | 500 |
| Test Pile Steel HP10X42 | Each | | 1 | 1 | 1 |
| Name Plates | Each | | 1 | 1 | 1 |
| Concrete Encasement | Cu.Yds. | | 13.5 | 2.1 | 15.6 |
| Stud Shear Connectors | Each | | 16 | 16 | 32 |

NOTE: Four (4) Each Curled End Sections required. Item to be included in Steel Rolling.



SEISMIC DATA
Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10g
Site Coefficient (S) = 1.2

1-29-2008
ILLINOIS/STRUCTURAL NO. 6529
Compiles with 2002 AASHTO
Specifications for Seismic Design
of Bridges.



PILE DATA (WEST PIER)

Type: Steel Piles HP10X42
Nominal Required Bearing: 270 Kips
Allowable Resistance Available: 90 Kips
Estimated Length: 35 Feet/Pile
Number Required: 4

PILE DATA (WEST ABUT)

Type: Steel Piles HP10X42
Nominal Required Bearing: 156 Kips
Allowable Resistance Available: 52 Kips
Estimated Length: 27 Feet/Pile
Number Required: 4

PILE DATA (EAST PIER)

Type: Steel Piles HP10X42
Nominal Required Bearing: 270 Kips
Allowable Resistance Available: 90 Kips
Estimated Length: 33 Feet/Pile
Number Required: 4

PILE DATA (EAST ABUT)

Type: Steel Piles HP10X42
Nominal Required Bearing: 156 Kips
Allowable Resistance Available: 52 Kips
Estimated Length: 30 Feet/Pile
Number Required: 4

DESIGN SPECIFICATIONS

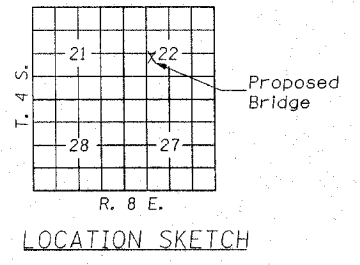
2002 AASHTO
HS 20-44 Loading, Load Factor Design

NOTE:
The Article or Section Numbers Referencing the Standard Specifications for Road and Bridge Construction as shown on the Standard Bridge Plan Sheets included with the contract plans should be interpreted as referring to the current edition of the Standard Specification (Adopted January 1, 2007) as shown in the "Article/Section No. Reference Table."

| ARTICLE/SECTION NO. | REFERENCE TABLE |
|---------------------|-----------------|
| Previous No. | Current No. |
| 504.06 | 504.06 |
| 505.04 | 505.04 |
| 1006.05 | 1006.05 |
| 1006.32 | 1006.32 |
| 1060.07 | 1060.07 |
| STD 631026 | STD 631026 |

STATION 5+00
LOST CREEK
SEC. 07-09125-00-BR BUILT 20
PROJECT NO. BR05-193(40)
WHITE COUNTY
LOADING HS 20-44
STR. NO. 097-3264

LETTERING FOR NAME PLATE
Locate Name Plate at the Southwest
Corner of the Bridge (See Sd. CN)



WATERWAY INFORMATION

| Drainage Area = 29.6 Sq. Mi. Low Grade Elev. = 377.83 At Sta. 7+55 | | | | | | | | | | |
|--|-----------|------|----------------|-------|----------------|-------|----------|--------|---------------|--------|
| Flood | Freq. Yr. | Q | Opening Sq.Ft. | | Natural H.W.E. | | Head-Ft. | | Headwater El. | |
| | | | Exist. | Prop. | Exist. | Prop. | Exist. | Prop. | Exist. | Prop. |
| Design | 15 | 3582 | 489 | 690.1 | 373.93 | 0.15 | | | | 374.08 |
| Base | 100 | 5656 | 544 | 802.1 | 375.34 | 0.98 | 0.38 | 376.32 | | 375.72 |
| Max. Calc. | 500 | 7344 | | | | | | | | |

INDEX OF SHEETS

- General Plan & Elevation
- Standard CS-2417-30L
- Standard CS-2417-40L
- Standard CB-2417-36
- Standard CB-2417-48
- Standard CA-2417-10
- Standard CP-2417-10
- Standard CR-TS1
- Standard CN
- Standard CX-1

GENERAL PLAN & ELEVATION

TOWNSHIP ROUTE 107
OVER LOST CREEK
SECTION 07-09125-00-BR
WHITE COUNTY
STATION 5+00

SHEET TITLE:
GENERAL PLAN AND ELEVATION

SCALE: NONE

BY: A.M.M.

DATE: 02/07

REV:

5 OF 14 SHEETS

SHEET NO. 5