

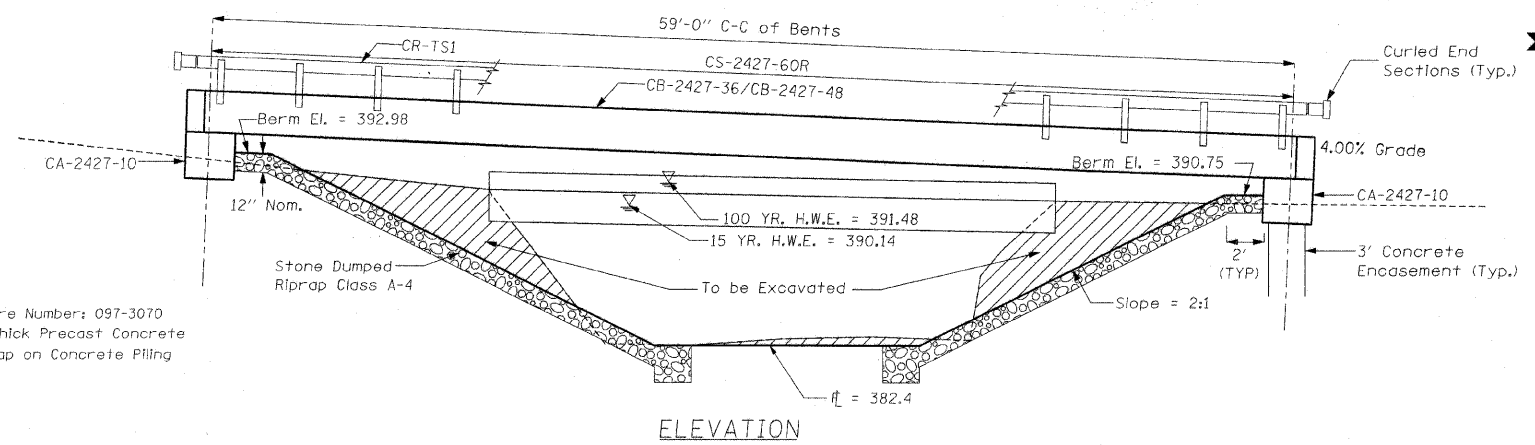
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
140	07-08135-00-BR	WHITE	19	6

323 W. 3RD ST.  
P.O. BOX 160  
MT. CARMEL, IL  
62863  
PHONE:  
(618)-262-8651  
FAX:  
(618)-263-3327

405 W. STATE ST.  
SUITE 1  
PRINCETON, IN  
47670  
PHONE:  
(812)-386-7611  
FAX:  
(812)-385-2812

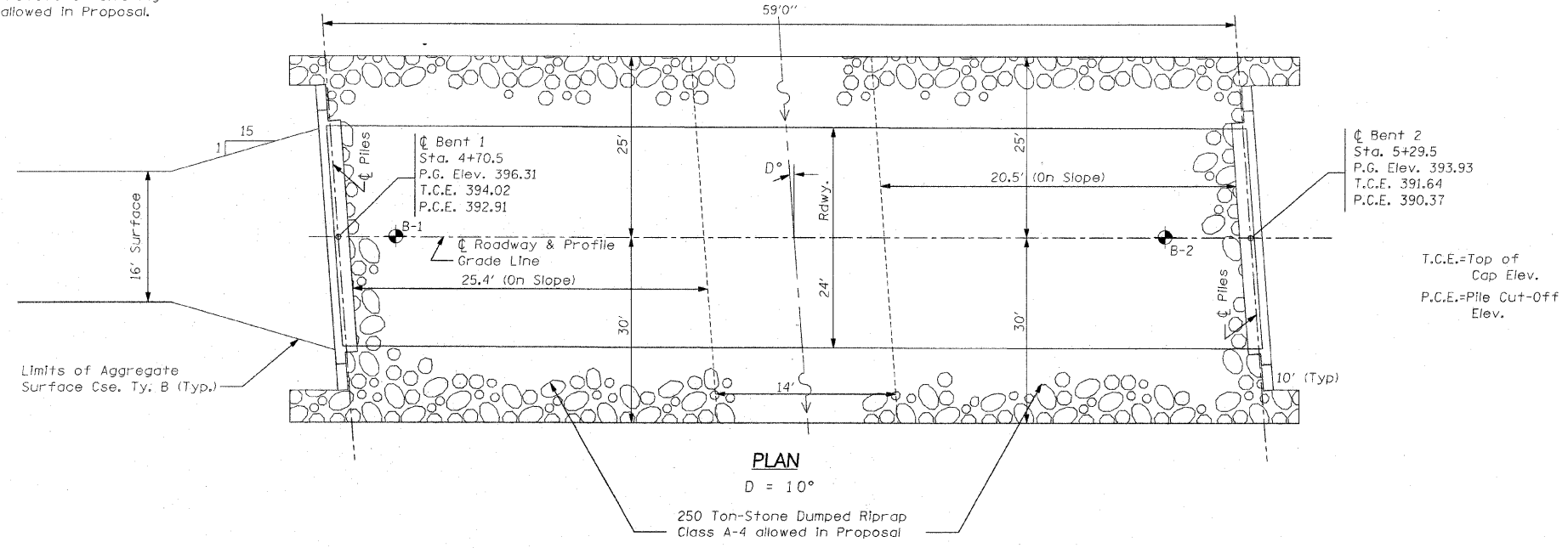
PROJECT \* BROS-193(36) LICK CREEK TRIBUTARY  
CONTRACT NO. 99323  
LEC JOB \* HOTEL099WH & HOTEL010WH

B.M. I.P. ±9+77.30, 10.65' LT.  
Elev. = 386.51



Existing Bridge Sta 5+01.1; Structure Number: 097-3070  
A 30' Single Span Bridge with 21" Thick Precast Concrete Deck and 12"x11" Curb with Wood Cap on Concrete Piling and Wood Wingwalls & Mudwalls.

One (1) each removal of existing structures allowed in Proposal.



**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 Hot-Mix Asphalt 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.
- 2-3/4" shear studs will be required per pile which will be encased within the concrete cap.

Item	Unit	Super	Sub. Piers	Abuts.	Total
Removal of Existing Structures	L Sum				1
Hot Mix Asphalt Surf. Cse.	Tons				
Waterproofing Membrane System	Sq.Yds.				
Concrete Structures	Cu.Yds.			18.2	18.2
P.P. Conc. Dk. Bm. 27" Dp.	Sq.Ft.	1440			1440
Steel Railing, Type S1	Lin.Ft.	120			120
Reinforcement Bars	Lbs.			2300	2300
Furnishing Steel Piles HP10X42	Lin.Ft.			124	124
Driving Piles	Lin.Ft.				
Test Pile Steel HP10X42	Each				
Name Plates	Each		1		1
Concrete Encasement	Cu.Yds.		2.1		2.1
Setting Piles in Rock	Each		8		8
Stud Shear Connectors	Each		16		16

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

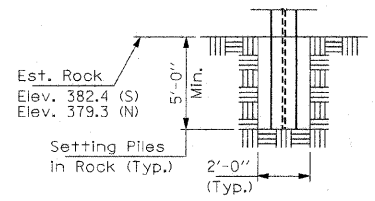
NOTE: All items deemed fit for use on other County projects shall become the property of the County. These items shall be stored along the R.O.W. at no additional cost to the project.

STATION 5+00  
LICK CREEK TRIBUTARY  
SEC. 07-08135-00-BR BUILT 20  
PROJECT NO. BROS-193(36)  
WHITE COUNTY  
LOADING HS 20-44  
STR. NO. 097-3262

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

**ABUT. PILE DATA**

Type: Steel Piles HP10X42  
Nominal Required Bearing: SET IN ROCK  
Allowable Resistance Available: SET IN ROCK  
Estimated Length: 15 Feet/Pile (SOUTH PILE)  
16 Feet/Pile (NORTH PILE)  
Number Required: 8



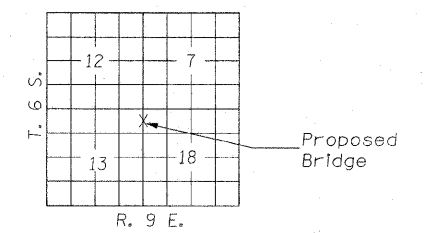
**ROCK SOCKET DETAIL**

**DESIGN SPECIFICATIONS**

2002 AASHTO  
HS 20-44 Loading, Load Factor Design

**SEISMIC DATA**

Seismic Performance Category (SPC) = B  
Bedrock Acceleration Coefficient (A) = 0.10g  
Site Coefficient (S) = 1.0



**LOCATION SKETCH**

**INDEX OF SHEETS**

- General Plan & Elevation
- Standard CS-2427-60R
- Standard CB-2427-36
- Standard CB-2427-48
- Standard CA-2427-10
- Standard CR-TS1
- Standard CN
- Standard CX-1

**WATERWAY INFORMATION**

Drainage Area = 2.8 Sq. Mi. Low Grade Elev. = 388.51 At Sta. 7+04

Flood Yr.	Freq. C.F.S.	Opening Sq.Ft.		Natural H.W.E.	Head-Ft.		Headwater El.	
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	1105	146.9	225.6	390.14	0.09		390.23
Base	100	1819	146.9	298.8	391.48	1.00	0.16	392.48 391.64
Max. Calc.	500	2418						

**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

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."

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".

Steven W. Mefford 5/5/08  
ILLINOIS STRUCTURAL NO. 6064



Expires 11-30-08

**GENERAL PLAN & ELEVATION**

TOWNSHIP ROUTE 140  
OVER LICK CREEK TRIBUTARY

SECTION 07-08135-00-BR  
WHITE COUNTY

STATION 5+00

**LAMAC ENGINEERING CO.**

PROFESSIONAL LAND SURVEYING FIRM: 048-000882  
PROFESSIONAL ENGINEERING CORPORATION: 184-000887

AARON M. MEFFORD  
NAME: Aaron M. Mefford  
SIGNATURE: [Signature]  
DATE: 6-23-08  
11-30-09 EXPIRES

TOWNSHIP ROUTE 140  
INDIAN CREEK TOWNSHIP  
WHITE COUNTY, ILLINOIS

SHEET TITLE: SN 097-3262 GENERAL PLAN AND ELEVATION

SCALE: NONE

BY: A.M.M.

DATE: 12/2007

REV:

6 OF 19 SHEETS

SHEET NO. 6