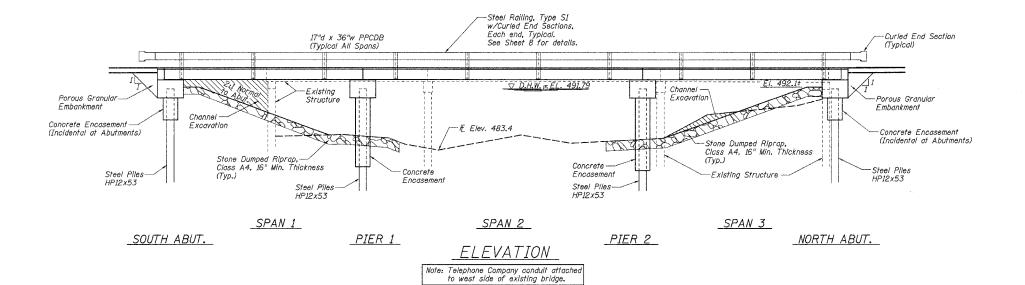
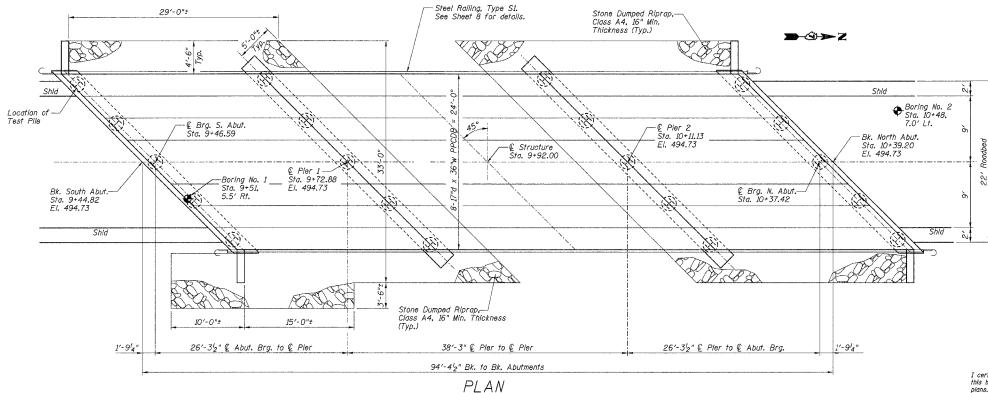
TBM 7/15/04B - RR Spike in west face of power pole, 21.29' Rt., Sta. 12+86.27 - Elev. 498.21

TBM 7/15/04C - RR Spike in east face of power pole, 21.87' Lt., Sta. 5+91.00 - Elev. 496.56





Existing Structure: Three span bridge with precast concrete deck slabs supported by timber pile bent abutments and timber pile piers with concrete caps. 76'-10'L. x 22'-6"W. No skew. Existing Structure No. 061-3189 Closed to all traffic. No Salvage (See Special

	ROUT	ΤE		SE	СТ	ION	COUNTY	TOTAL SHEET SHEETS NO.			
	TR 22 04-15109-00-BR				-00-BR	MARION	10	5			
ľ	FED. R	ROAD	DIST.	NO.	7	ILLINOIS	FEDERAL AID PROJECT				
١							CONTRACT NO	. 95430			

BILL OF MATERIALS (BRIDGE ONLY)

UNIT	SUB	SUPER	TOTAL
CU YD	45	-	45
TON	32	-	32
TON	180	-	180
EACH		-	1
CU YD	43.6	-	43.6
SQ FT	-	2208	2208
POUND	4960	-	4960
F00T	-	190	190
FOOT	855	-	855
F00T	855	-	855
EACH	1	-	1
CU YD	13.0	-	13.0
EACH	1	-	1
		1	
	CU YD TON TON EACH CU YD SQ FT POUND FOOT FOOT EACH CU YD	CU YD 45 TON 32 TON 180 EACH - CU YD 43.6 SQ FT - POUND 4960 FOOT - FOOT 855 FOOT 855 EACH 1 CU YD 13.0	CU YD 45 - TON 32 - TON 180 - EACH CU YD 43.6 - SQ FT - 2208 POUND 4960 - FOOT - 190 FOOT 855 - FOOT 855 EACH 1 - CU YD 13.0 -

GENERAL NOTES

See Section 502 of the Standard Specifications for Structural Excavation.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel at the ROW line. If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment.

The Contractor shall drive one (1) Steel HP12x53 Test Pile in a permanent location at the South Abutment as directed by the Engineer before ordering the remainder of the piles.

Reinforcement Bars shall conform to AASHTO M-31, M-42, or M-53, Grade 60 requirements.

The abutment and pier bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required, "fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

See Specifications for Soil Borings.

Do not scale these drawings.

LOST CREEK BUILT 200 BY MARION COUNTY PROJECT NO. BROS-121(40) SEC. 04-15109-00-BR LOADING HS-20 STRUCTURE NO. 061-3299

NAME PLATE (See State Standard 515001 for details)

R 1 E, 3rd P.M. Location

I certify that to the best of my information, knowledge, and belief, this bridge is structurally adequate for the design loading shown on plans. The design is an economical one for the structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

LOCATION SKETCH

WATERWAY DATA

						·			
Drainage Are	ea = 5.74	Sq. Mi.	. Lou	/ Grade t	Elev. 494	.40 O	Sta. 9	+00	
Flood	Freq.	a	Opening	Sg. Ft.	Natural	Head	- Ft.	Headwa	ater El.
F 1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	15	1212	311	409	491.79	0.17	0.17	491.96	491.96
Base	100	1939	360	490	492.79	0.43	0.39	493.22	493.18
Max. Calc.	500	2532	360	519	493.42	0.79	0.81	494.21	494.23

DESIGN SPECIFICATIONS PRECAST PRESTRESSED UNITS AASHTO - 2002 17th Edition

DESIGN STRESSES

FIELD UNITS

 $f'_c = 3,500 \text{ psi}$ $f_y = 60,000 \text{ psi}$

 $f'_{c} = 5,000 \text{ psi}$ $f'_{ci} = 4,000 \text{ psi}$ LOADING HS 20-44 $f'_s = 270,000 \text{ psi } (\frac{1}{2})\% \text{ strands})$ $f'_{si} = 189,000 \text{ psi } (\frac{1}{2})\% \text{ strands})$ Allow 25#/sq. ft, for future wearing surface.

© Pier 2 Sta. 10+11.13 El. 494.73 Bk. Sta. El. 0.00% Span 2 Span 3

GRADE ON STRUCTURE May 8. Jahn 03.15.05 GARY L. HAHN CENTRALIA, ILLINOIS ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 81-4853

EXPIRES NOV. 30, 2006

81-4853

LICENSED STRUCTURAL ENGINEER

GENERAL PLAN AND ELEVATION PROPOSED BRIDGE CARRYING TR 22 OVER LOST CREEK SECTION 04-15109-00-BR MARION COUNTY, ILLINOIS

Sheet of 10 Job No. 50804

RHUTASEL and ASSOCIATES, INC. CONSULTING ENGINEERS • LAND SURVEYORS FREEBURG, ILLINOIS