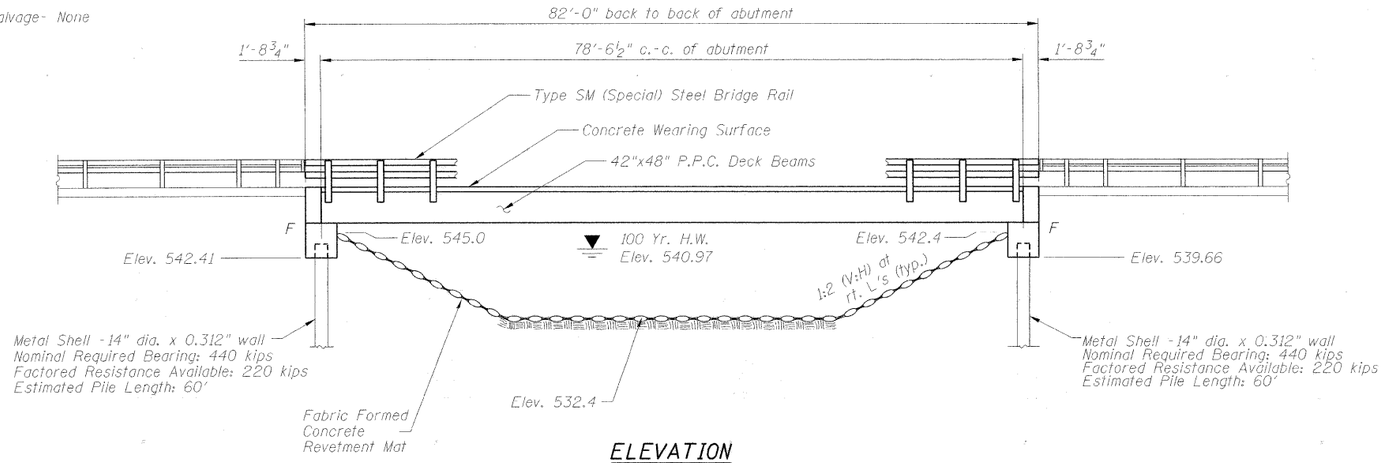
CONTRACT NO. 89479

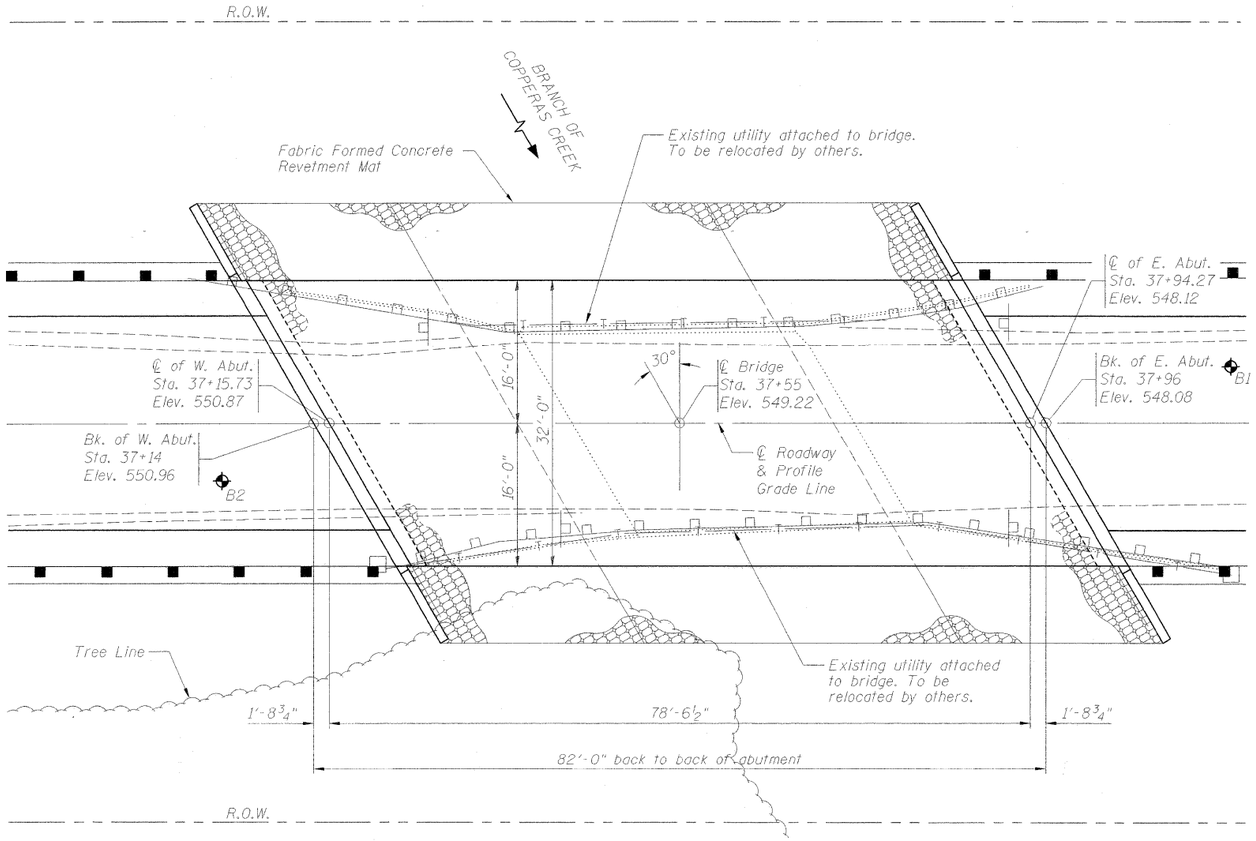
B.M.- Railroad spike set in west side of tree. Sta. 39+00.96, 69.5' Rt. Elev. 543.57

Existing Structrue - Structure No. 072-3048. Existing structure was constructed in 1939 and consists of a single span supported on closed abutments. Superstructure consists of five lines of wide flange steel beams supporting a reinforced concrete deck with a bituminous overlay. Abutments consist of tied-back timber pile bents with timber lagging. The road will be closed during construction with a signed detour route.

Salvage- None



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications - 4th edition

LOADING HL-93

Allow 50 #/sq. ft. for future wearing surface.

DESIGN STRESSES

Super: f'c = 6,000 p.s.i. (P.P.C. Deck Beams)
f'ci = 5,000 p.s.i.
f's = 270,000 p.s.i. (1/2" ϕ Strand)
f'si = 201,960 p.s.i. (1/2" ϕ Strand)
fy = 60,000 p.s.i.

Sub: f'c = 3,500 p.s.i.
fy = 60,000 p.s.i.

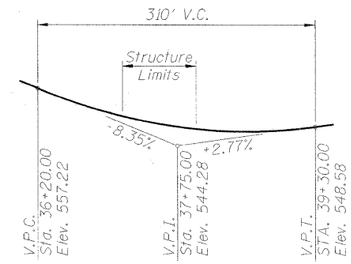
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.113
Design Spectral Acceleration at 0.2 sec (SDs) = 0.177
Soil Site Class = D

BRANCH OF COPPERAS CREEK
BUILT 20__ BY
PEORIA COUNTY
SEC. 08-00041-02-BR
CH D56 STATION 37+55
STR. NO. 072-3144 LOADING HL-93

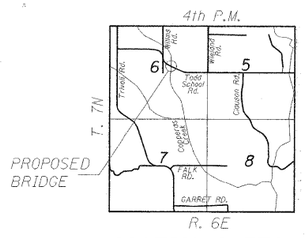
LETTERING FOR NAME PLATE

Locate Name Plate at Southwest Corner of Bridge (See Std. 515001)



PROFILE GRADE

(Along ℄ Roadway)



LOCATION SKETCH

N

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	542.41	539.66

WATERWAY INFORMATION

Drainage Area = 2.11 Sq. Mi. Low Grade Elev. = 545.33

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	794	208	263	539.9	0.46	0.12	540.36	540.02
Base	100	1302	240	318	540.97	1.07	0.27	542.04	541.24

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes, Total Bill of Materials and General Details
3. P.P.C. Deck Beam Superstructure
4. P.P.C. Deck Beam Details
5. P.P.C. Deck Beam Details
6. Concrete Wearing Surface
7. Steel Railing, Type SM (Special) with Concrete Wearing Surface
8. West Abutment
9. East Abutment
10. Metal Shell Pile Details
11. Boring Logs

LICENSED STRUCTURAL ENGINEER
STUART M. KEMP
081-004897
STATE OF ILLINOIS

Stuart M. Kemp
SIGNATURE

5/11/2009
DATE

LIC. EXP. DATE : 11/30/2010

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HANSON

JOB NO. 08L0071
DATE 5/21/09

SHEET NO. 1
11 SHEETS

GENERAL PLAN & ELEVATION

TODD SCHOOL ROAD BRIDGE
OVER BRANCH OF COPPERAS CREEK
CH D56
SEC. 08-00041-02-BR
PEORIA COUNTY, ILLINOIS
STATION 37+55
STRUCTURE NO. 072-3144

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D56	08-00041-02-BR	PEORIA	25	9
		CONTRACT NO. 89479		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

LAYOUT	JKR	01/14/09
DRAWN	MCM	05/21/09
REVIEWED	SMK	05/21/09

05/22/2009
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