Benchmark: Top of Northeast wingwall of S.N. 050-0056 Sta. 420+17 19' left Elev. = 633.31

Existing Structure: S.N. 050-0056. Three span, continuous, 12" cast-in-place concrete slab bridge on precast pile bent piers and closed abutments. The overall length is 71' long and the overall width is 36'-4". Built in 1956 with 1.5" bituminous overlay added in 1998. The Contractor shall remove the existing structure in stages and replace it with a three span wide flange beam with a reinforced concrete deck superstructure on encased pile bent piers and integral abutments.

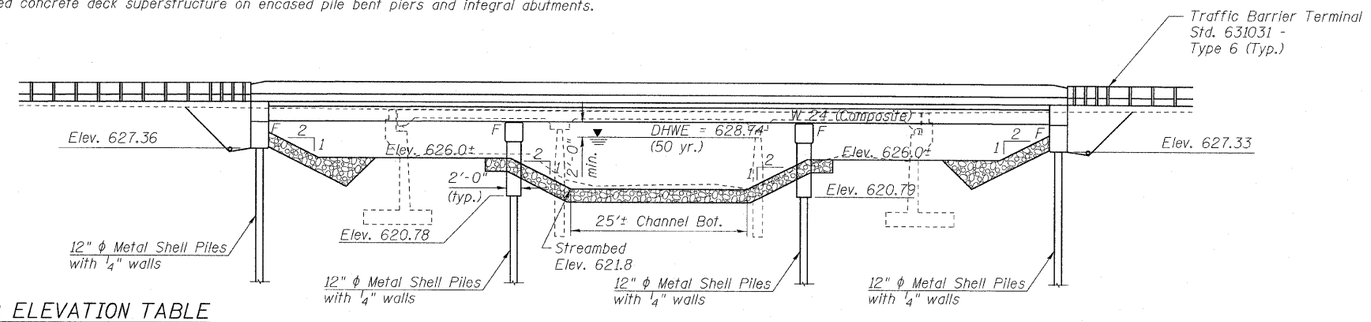
No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A.	(3)BR-1	LASALLE	44	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1 OF 23 SHEETS

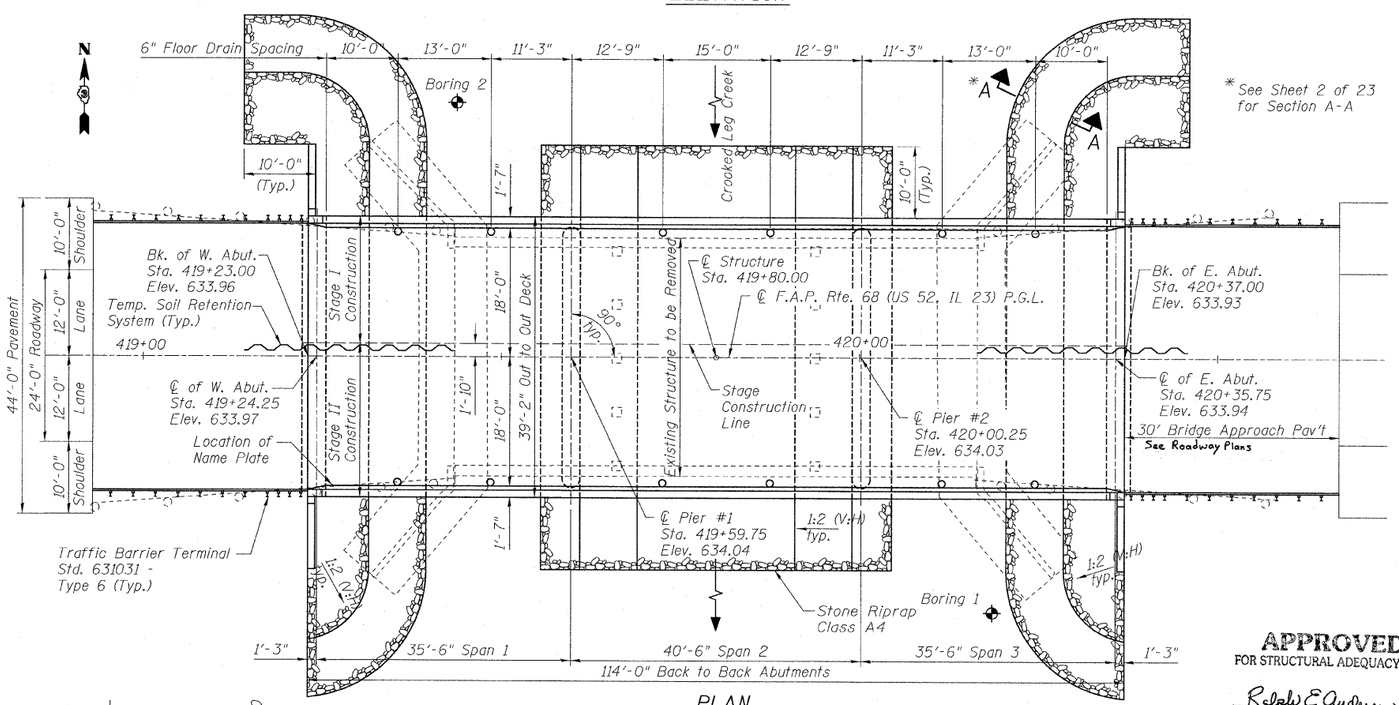
CONTRACT NO. 66619



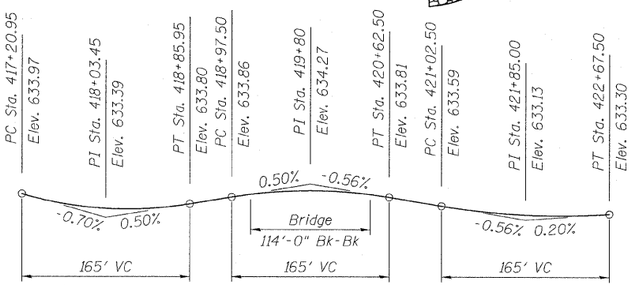
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	627.36	620.78	620.79	627.33

ELEVATION



PLAN



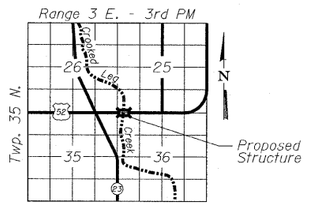
PROFILE GRADE
(Along ℄ of Roadway)

WATERWAY INFORMATION

Drainage Area = 21.36 Sq. Mi. Low Grade Elev. 633.25 @ Sta. 422+24

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	50	1068	284.6	376.9	628.74	0.23	0.13	628.97	628.87
Base	100	1197	298.1	397.7	628.94	0.29	0.17	629.23	629.11
Overtopping									
Max. Calc.	500	1493	323.7	437.2	629.32	0.41	0.25	629.73	629.57

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E Anderson (TJD)
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

STATION 419+80.00
BUILT 20-- BY
STATE OF ILLINOIS
F.A.P. 68 SEC. (3)BR-1
LOADING HS20
STR. NO. 050-0240

NAME PLATE
See Std. 515001

INDEX OF BRIDGE SHEETS

1 GENERAL PLAN AND ELEVATION
2 GENERAL NOTES & BILL OF MATERIAL
3 STAGE CONSTRUCTION DETAILS
4 TOP OF SLAB ELEVATIONS
5 TOP OF SLAB ELEVATIONS
6 TOP OF WEST APPROACH SLAB ELEVATIONS
7 TOP OF EAST APPROACH SLAB ELEVATIONS
8 SUPERSTRUCTURE
9 SUPERSTRUCTURE DETAILS
10 DIAPHRAGM DETAILS
11 BEARING DETAILS
12 FRAMING PLAN
13 FRAMING DETAILS
14 WEST ABUTMENT DETAILS
15 EAST ABUTMENT DETAILS
16 PIER 1 DETAILS
17 PIER 2 DETAILS
18 METAL SHELL PILE DETAILS
19 TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
20 BAR SPLICER ASSEMBLY DETAILS
21 CATILEVER FORMING BRACKETS FOR SUPERSTUCTURES WITH W27 BEAMS AND SMALLER
22 BORING 1
23 BORING 2

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO 17th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinf.)
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.038g
Site Coefficient (S) = 1.0

Signature
Date 6/19/08
Exp. Date 11/30/08

QUAD CITY OFFICE
McClure Engineering Associates, Inc.
4700 Kennedy Drive East Moline, Illinois 61244
(309) 792-9350 FAX (309) 792-8974
Designed By: daf Checked By: acg Drawn By: daf
Date: 1/18/08
Design Firm License: Illinois #184-000815

GENERAL PLAN AND ELEVATION
US ROUTE 52 AND IL ROUTE 23 OVER CROOKED LEG CREEK
F.A.P. ROUTE 68 SECTION (3) BR-1
LASALLE COUNTY
STATION 419+80.00
STRUCTURE NUMBER 050-0240