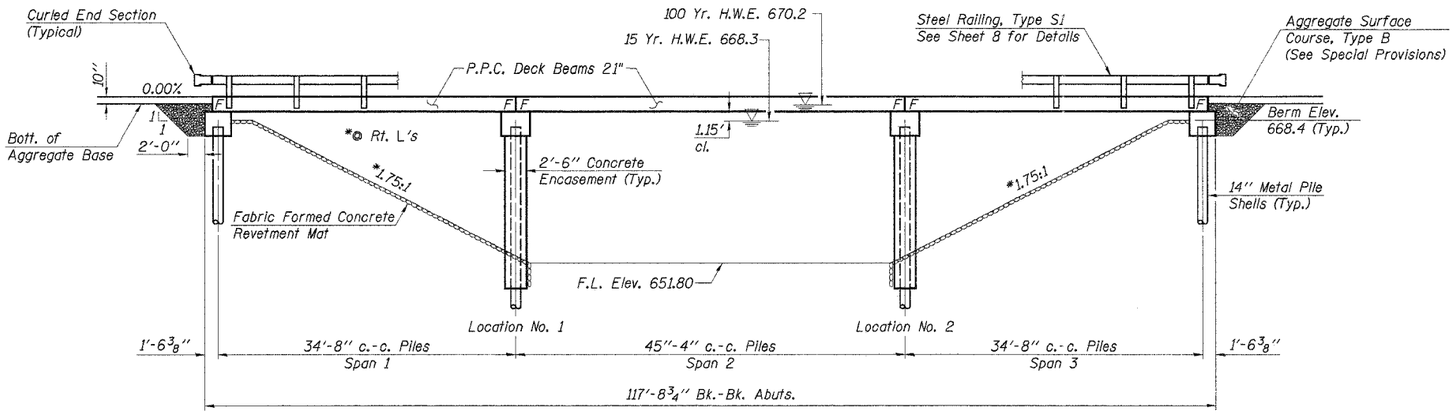
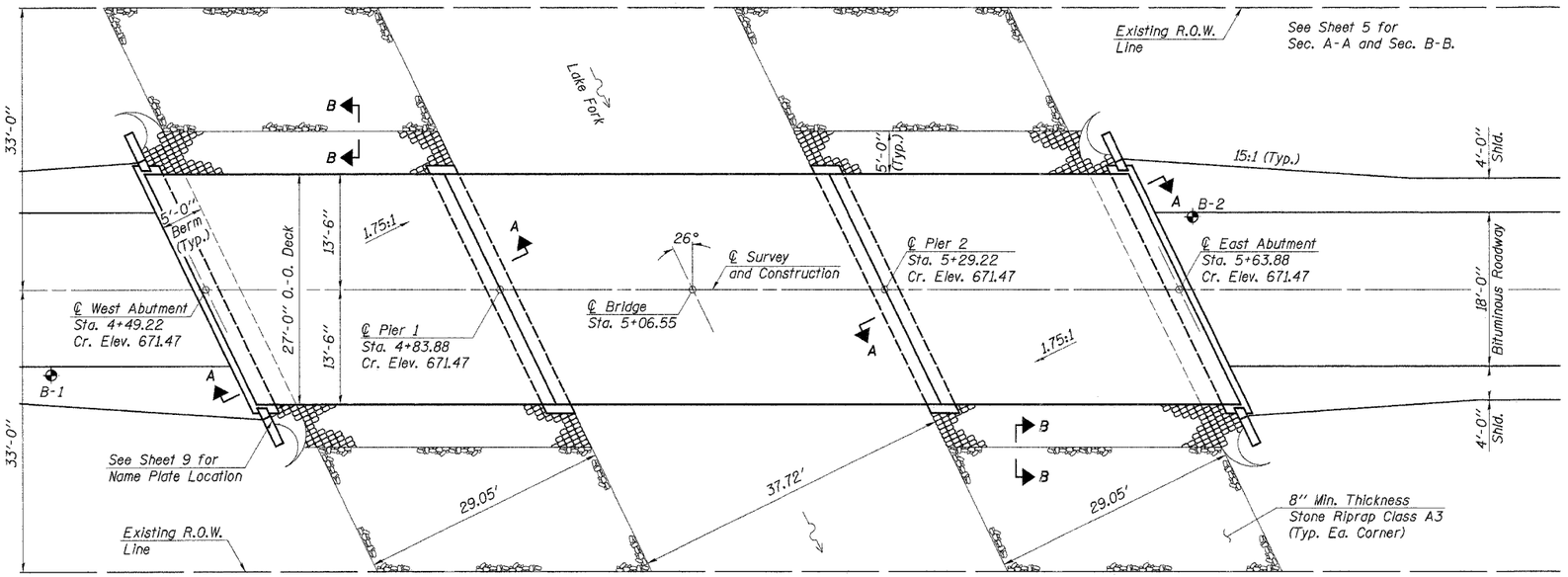
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 167	06-01102 01-BR	PIATT	15	4
ROAD DIST.	ILLINOIS	BEMENT		

CONTRACT NO. 91364



ELEVATION



PLAN

Construction Permits:
The Requirements of the IDNR - Division of Water Resources have been fulfilled in accordance with Statewide Permit No. 2.

WATERWAY INFORMATION

Drainage Area	95.78 Sq. Mi.
Existing Opening (15 Yr.)	1,030 Sq. Ft.
Required Opening (15 Yr.)	1,030 Sq. Ft.
Proposed Opening (15 Yr.)	1,030 Sq. Ft.
Design Discharge (15 Yr.)	3,369 C.F.S.
Created Head (15 Yr.)	0.0 Ft.
100 Year Discharge	5,247 C.F.S.
100 Yr. Created Head	0.1 Ft.

DESIGNED	F.J.S.
CHECKED	S.F.M.
DRAWN	S.A.P.
CHECKED	S.F.M.

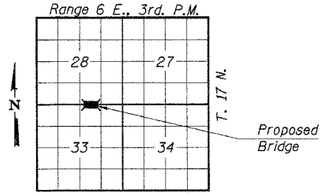
DESIGN STRESSES

f'_c = 5,000 p.s.i. (Prestressed Beams)
f'_{ci} = 4,000 p.s.i. (Prestressed Beams)
f_c = 1,400 p.s.i. (Concrete)
f'_s = 270,000 p.s.i. (Prestressed Strands)
f_{si} = 201,960 p.s.i. (Prestressed Strands)
f_s = 24,000 p.s.i. (Reinf. Bars -- Field Units)
f_y = 60,000 p.s.i. (Reinf. Bars -- Field Units)
n = 9 (Concrete)
LOADING HS20-44
Design Specifications: 2002 AASHTO
25#/Sq. Ft. included in dead load for future wearing surface.

"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'".

Fred J. Stone Jr. (5-30-06)
ILLINOIS STRUCTURAL NO. 2934 (Expires 11/30/06)

LICENSED STRUCTURAL ENGINEER
FRED J. STONE, JR.
81-2934
SPRINGFIELD
STATE OF ILLINOIS



LOCATION PLAN

GENERAL NOTES

See Special Provisions for Boring data.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60.

The Contractor shall drive one metal shell test pile in a permanent location at the West abutment and at Pier #2 as directed by the Engineer, before ordering the remainder of piles.

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

Aggregate Surface Course, Ty. B shall be used to backfill behind each abutment as indicated by the Engineer. The additional quantity of CA-10 is included in the total quantity for Aggregate Surface Course, Ty. B. (See Special Provisions).

LAKE FORK
BUILT 200_ BY
BEMENT ROAD DISTRICT
PIATT COUNTY
SEC. 06-01102-01-BR
PROJ. BROS-147(62)
STR. NO. 074-3306 LOADING HS20

LETTERING FOR NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3,127		3,127
Concrete Structures	Cu. Yd.		43.3	43.3
Reinforcement Bars	Pound		4,670	4,670
Steel Railing, Type S1	Foot	232		232
Name Plates	Each		1	1
Metal Pile Shells 14"	Foot		650	650
Test Pile Metal Shell	Each		2	2
Stone Riprap, Class A3	Ton		70	70
Fabric Formed Concrete Revetment Mat	Sq. Yd.		173	173
Concrete Encasement	Cu. Yd.		25.0	25.0
Underwater Structure Excavation Protection Location - No. 1	Each		1	1
Underwater Structure Excavation Protection Location - No. 2	Each		1	1
Aggregate Surface Course, Type B	Ton		60	60

GENERAL PLAN & ELEVATION

SECTION 06-01102-01-BR
BEMENT ROAD DISTRICT
PIATT COUNTY
STATION 5+06.55

4440 ASH GROVE
SPRINGFIELD, IL. 62711
(217) 793-8600
oasinc@insightbb.com

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL. ROCKFORD, IL. ROCHELLE, IL. MORRIS, IN. SPRINGFIELD, IL.

JOB NO.: 0602
FILE: 0602GPE.DGN
DATE: 05/26/06