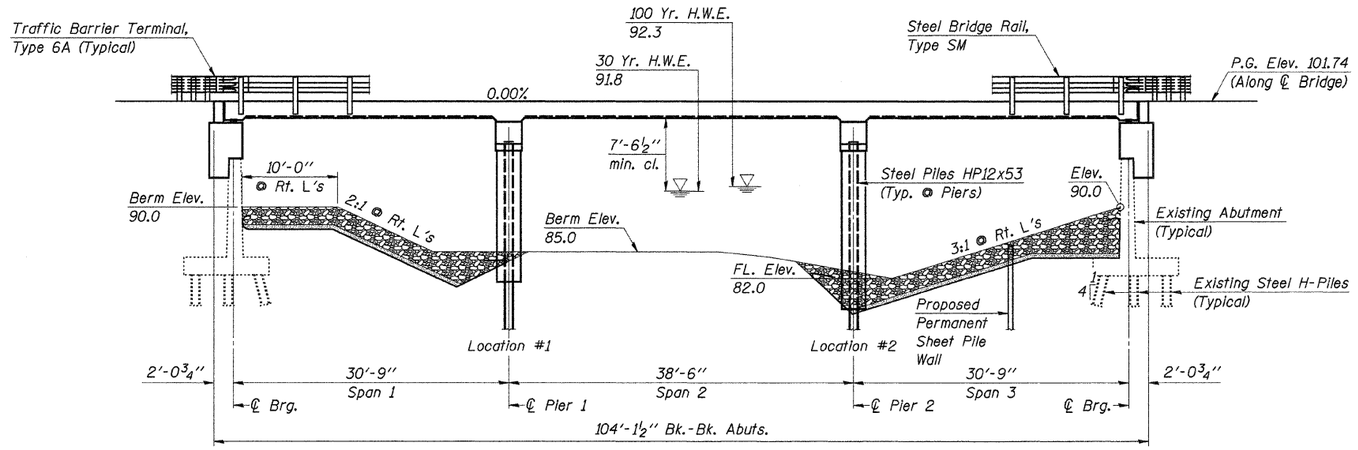
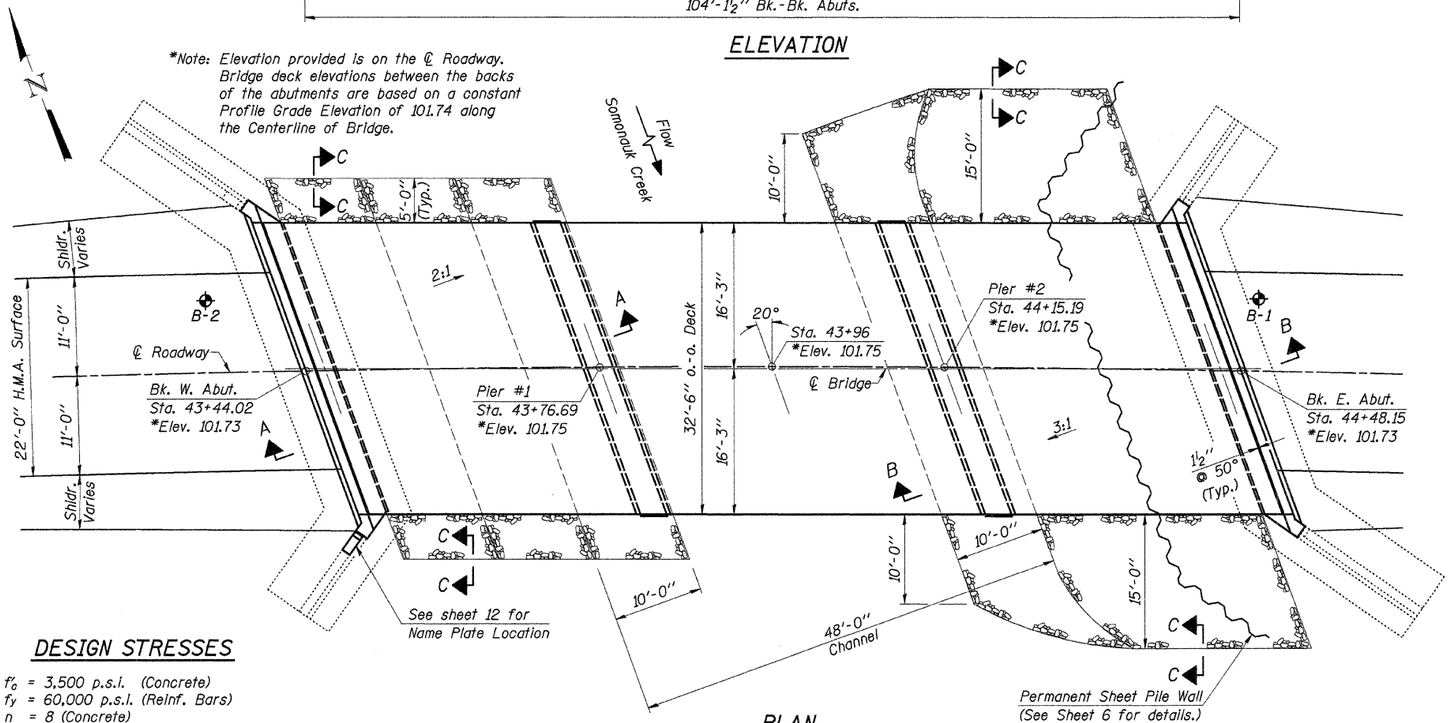
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	5
	ILLINOIS			

Contract No. 87366

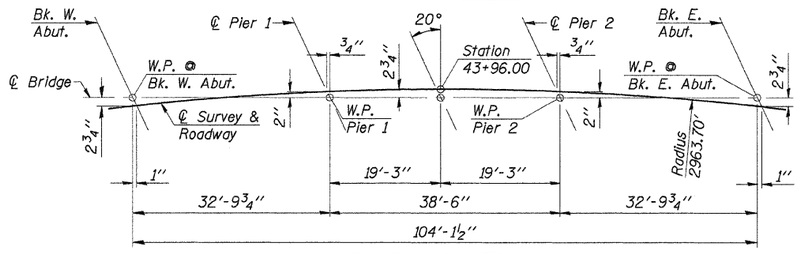


ELEVATION

*Note: Elevation provided is on the ℄ Roadway. Bridge deck elevations between the backs of the abutments are based on a constant Profile Grade Elevation of 101.74 along the Centerline of Bridge.



PLAN

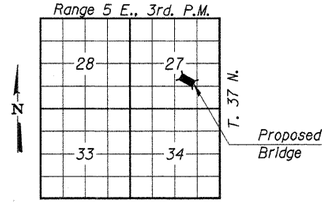


OFFSET SKETCH

DESIGN STRESSES

f'_c = 3,500 p.s.i. (Concrete)
f_y = 60,000 p.s.i. (Reinf. Bars)
n = 8 (Concrete)
LOADING HS20-44
Design Specifications: 2002 AASHTO
50#/Sq. Ft. included in dead load for future wearing surface.

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.



LOCATION PLAN

WATERWAY INFORMATION

Drainage Area	41.39 Sq. Mi.
Existing Opening (30 Yr.)	468 Sq. Ft.
Required Opening (30 Yr.)	521 Sq. Ft.
Proposed Opening (30 Yr.)	521 Sq. Ft.
Design Discharge (30 Yr.)	1,925 C.F.S.
Created Head (30 Yr.)	0.0 Ft.
100 Year Discharge	2,400 C.F.S.
100 Yr. Created Head	0.0 Ft.

SOMONAUK CREEK
BUILT 200_ BY
DEKALB COUNTY
SEC. 06-00002-01-BR
COUNTY HIGHWAY 11
STR. NO. 019-3017
LOADING HS20

LETTERING FOR NAME PLATE

See Std. 515001

Note: See Sheet 6 for Sections A-A, B-B and C-C

GENERAL NOTES

See Proposal Booklet for Boring data.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified) See Special Provisions. All reinforcement bars shall be epoxy coated.

The Contractor shall drive one Steel HP12x53 test pile in a permanent location 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.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The vertical exposed portions of the Superstructure and all exposed portions of newly constructed abutments, wing walls and piers shall recieve a rubbed finish in accordance with Article 503.15(b) of the Standard Specifications. Cost shall be included in the cost of Concrete Structures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bridge Deck Grooving	Sq. Yd.	298		298
Concrete Superstructure	Cu. Yd.	215.0		215.0
Concrete Structures	Cu. Yd.		89.4	89.4
Reinforcement Bars, Epoxy Coated	Pound	34,180	8,290	42,470
Steel Railing, Type SM	Foot	204		204
Name Plates	Each		1	1
Steel Piles HP12x53	Foot		450	450
Test Pile Steel HP12x53	Each		1	1
Stone Riprap, Class A4	Ton		574	574
Filter Fabric	Sq. Yd.		591	591
Concrete Encasement	Cu. Yd.		29.4	29.4
Preformed Joint Strip Seal	Foot		70	70
Elastomeric Bearing Assembly, Type I	Each		12	12
Underwater Structure Excavation Protection - Location 1 (Pier 1)	Each		1	1
Underwater Structure Excavation Protection - Location 2 (Pier 2)	Each		1	1
Permanent Sheet Piling	Sq. Ft.		1,963	1,963
Geocomposite Wall Drain	Sq. Yd.		17	17
Porous Granular Embankment	Cu. Yd.		32	32
Protective Coat	Sq. Yd.	418		418
Structural Repair to Concrete (Depth equal to or less than 5 in.)	Sq. Ft.		10	10
Concrete Removal	Cu. Yd.		37	37
Controlled Low-Strength Material, Mix 2	Cu. Yd.		148	148
Structure Excavation	Cu. Yd.		202	202

"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'".

John A. Morris — 9-2-08
ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/08)

LICENSED STRUCTURAL ENGINEER ★ JOHN A. MORRIS NO. 81-4277 ★ STATE OF ILLINOIS

GENERAL PLAN & ELEVATION

COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

4440 ASH GROVE
SPRINGFIELD, IL. 62711
(217) 793-8600
www.fehr-graham.com

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

JOB NO.:	47538
FILE:	GPE.DGN
DATE:	09/02/08