CONTRACT NO. 66565

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	113BR-2	LIVINGSTON	47	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

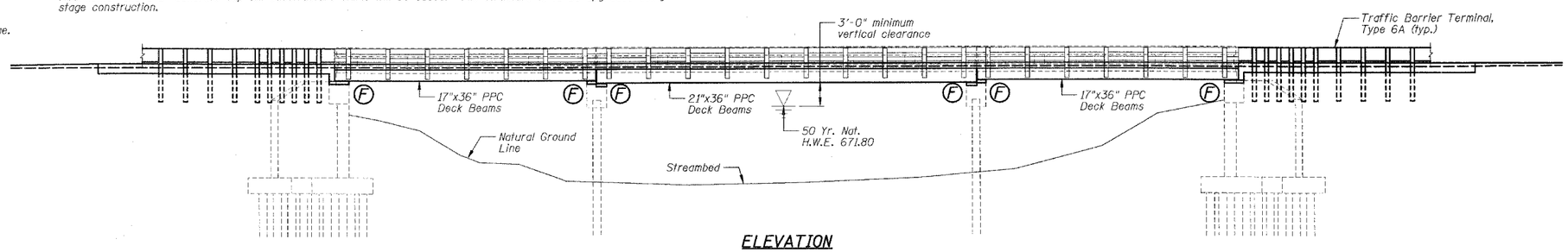
SHEET NO. B1 OF 31 SHEETS

Benchmark: 1.) "□" top of wingwall, Southeast corner of East Abutment. Elevation = 677.14/Sta. 437+33/16' RT.

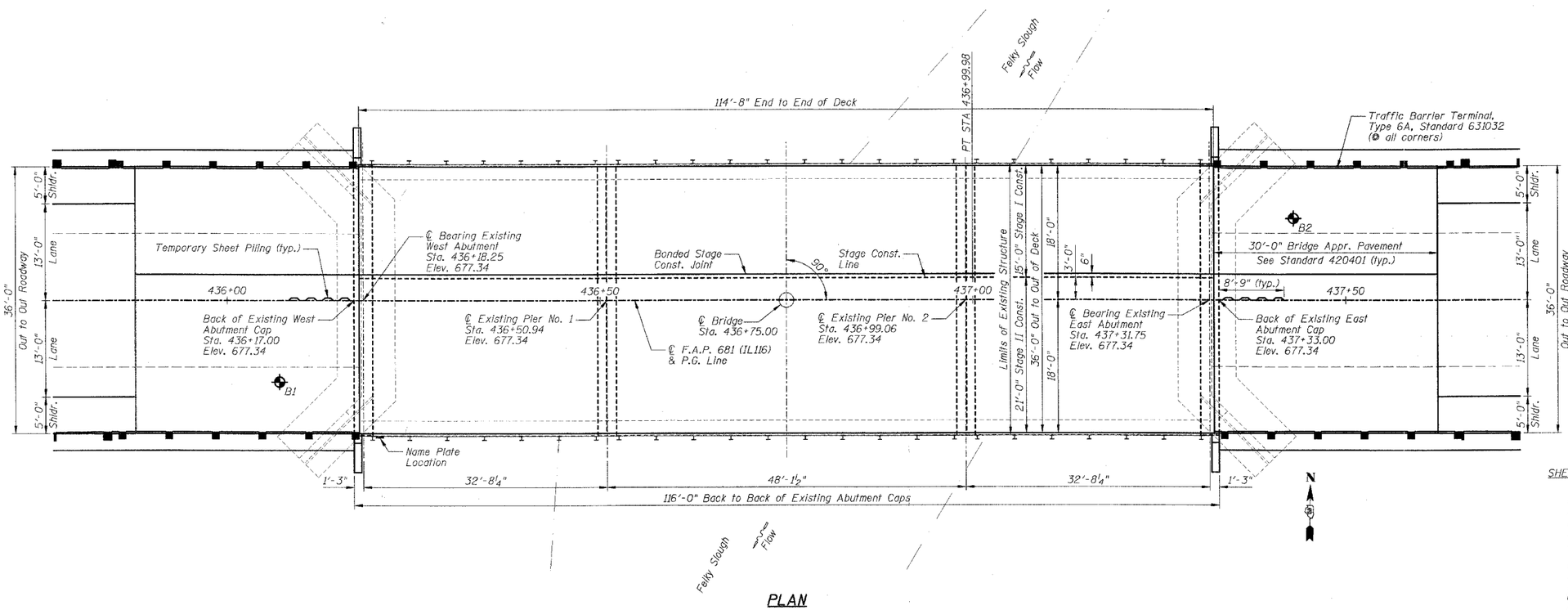
Existing Structure: SN 053-0075 was built in 1927 under Section 113 and 113B. In 1965, the bridge was widened, the superstructure was replaced with 3 simple span PPC deck beams (12 PPC deck beams) and 2 new piers were added under Section 113B-1. In 1996 the existing pier piles were encased by IDOT under Section 113B-1. The substructure consists of closed abutments founded on timber piles and pile bent piers. The back-to-back of abutment caps dimension measures 116'-0" while the out-to-out width measures 36'-6". The existing superstructure shall be replaced with PPC deck beams and a 5" concrete wearing surface. The substructure will be repaired. Wingwalls (abutments) and a 5" concrete cap (all substructure units) will be added. The structure is to be upgraded using stage construction.

No Salvage.

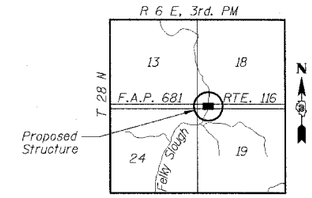
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



PLAN



LOCATION SKETCH

DESIGN SPECIFICATIONS

AASHTO 2002

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 5,000 psi (Concrete Wearing Surface)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½" ϕ low relaxation strands)
f'si = 201,960 psi (½" ϕ low relaxation strands)

LOADING HS20-44

Future wearing surface is not allowed.

HORIZONTAL CURVE DATA

P.I. STA. = 432+00.00
Δ = 0°18'13" (LT)
D = 0°01'49"
R = 188,783.02'
T = 499.96'
L = 999.96'
E = 0.66'
P.C. STA. = 427+00.02
P.T. STA. = 436+99.98

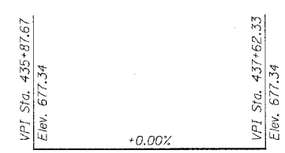
INDEX TO SHEETS

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	GENERAL NOTES, BILL OF MATERIAL, SECTION AND DETAIL
B3	STAGE CONSTRUCTION
B4	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
B5	BAR SPLICER ASSEMBLY DETAILS
B6	TYPE SM STEEL BRIDGE RAIL SIDE MOUNTED WITH CONCRETE WEARING SURFACE
B7	SUPERSTRUCTURE
B8	SUPERSTRUCTURE CROSS SECTION AND DETAILS
B9	17"x36" DECK PPC BEAM DETAILS
B10	21"x36" DECK PPC BEAM DETAILS
B11	WEST ABUTMENT CONCRETE REMOVAL AND REPAIRS
B12-B13	WEST ABUTMENT
B14	EAST ABUTMENT CONCRETE REMOVAL AND REPAIRS
B15-B16	EAST ABUTMENT
B17	PIER NO. 1 CONCRETE REPAIRS
B18-B19	PIER NO. 1
B20	PIER NO. 2 CONCRETE REPAIRS
B21-B22	PIER NO. 2
B23-B24	SOIL BORING LOGS
B25-B31	EXISTING PLANS

STATION 436+75.00
REBUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RTE. 681 SECTION 113BR-2
LOADING HS20
STR. NO. 053-0075

NAME PLATE

See Standard 515001



PROFILE GRADE

(Along ℄ Roadway)

MARK S. WYLIE
081-005002
LICENSED STRUCTURAL ENGINEER OF BLOOMINGTON
ILLINOIS

Mark S. Wylie Date 12/9/05
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

F.A.P. 681 (IL116) OVER FELKY SLOUGH
SECTION 113BR-2
LIVINGSTON COUNTY
STATION 436+75.00
STRUCTURE NO. 053-0075

DESIGNED BY: JML DRAWN BY: DJM
DATE: 12/09/05 CHECKED BY: MSW

FARNSWORTH GROUP, INC.
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-7380