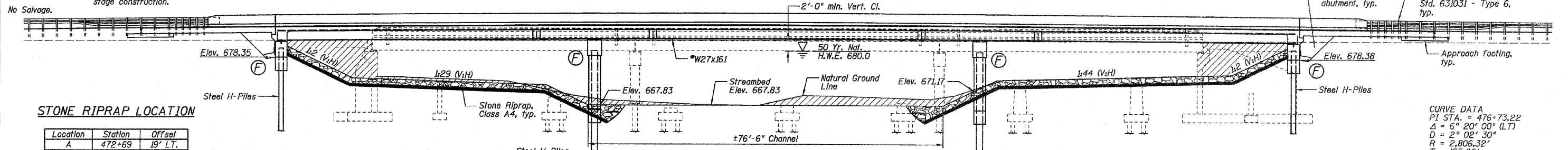


Benchmarks: BM #1 Railroad spike in power pole, Station 468+07/48' RT., Elevation = 680.48.
 BM #2 Chiseled "□" on top of Southwest wingwall of bridge S.N. 053-0152, Station 472+89/19' RT., Elevation = 682.81.

Existing Structure: Structure No. 053-0152, built in 1980 as Section 25 B-1. The superstructure consists of precast prestressed concrete deck beams with a Type T steel railing attached to the exterior beams and bituminous wearing surface. The substructure consists of concrete closed abutments supported on spread footings and two concrete solid shaft pile bent piers supported by precast concrete piles. The back-to-back of abutments dimension measures 185'-6" and the out-to-out dimension measures 36'-0". The span lengths are 58'-9", 68'-0" and 58'-9" with a 16° left forward skew. One lane of traffic will be maintained utilizing stage construction.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET B2

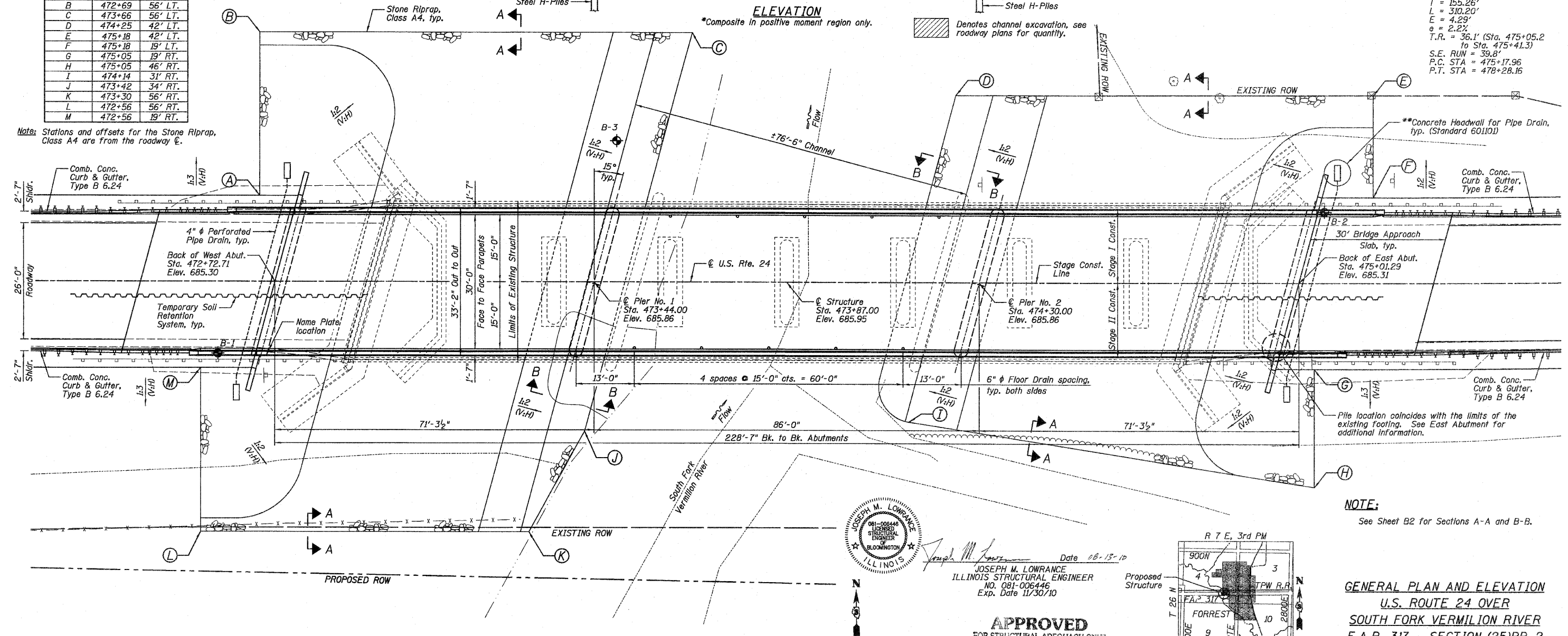


STONE RIPRAP LOCATION

Location	Station	Offset
A	472+69	19' LT.
B	472+69	56' LT.
C	473+66	56' LT.
D	474+25	42' LT.
E	475+18	42' LT.
F	475+18	19' LT.
G	475+05	19' RT.
H	475+05	46' RT.
I	474+14	31' RT.
J	473+42	34' RT.
K	473+30	56' RT.
L	472+56	56' RT.
M	472+56	19' RT.

Note: Stations and offsets for the Stone Riprap, Class A4 are from the roadway centerline.

CURVE DATA
 P.I. STA. = 476+73.22
 Δ = 6° 20' 00" (LT)
 D = 2° 02' 30"
 R = 2,806.32'
 T = 155.26'
 L = 310.20'
 E = 4.29'
 e = 2.22'
 T.R. = 36.1' (Sta. 475+05.2 to Sta. 475+41.3)
 S.E. RUN = 39.8'
 P.C. STA = 475+17.96
 P.T. STA = 478+28.16

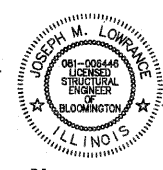


DESIGNED SDH
CHECKED JML
DRAWN DJM
CHECKED MSW
DATE 08/13/10

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
 2007 AASHTO LRFD Bridge Design Specifications, 4th Edition (2008 & 2009 Interim Revisions)

DESIGN STRESSES
 FIELD UNITS:
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (AASHTO M270 Grade 50W)

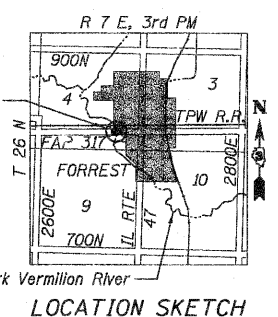
SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.115 g
 Design Spectral Acceleration at 0.2 sec. (SD5) = 0.189 g
 Soil Site Class = D



JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-008446
 Exp. Date 11/30/10

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Reid E. Anderson (T)D
 ENGINEER OF BRIDGES AND STRUCTURES



NOTE:
 See Sheet B2 for Sections A-A and B-B.

GENERAL PLAN AND ELEVATION
 U.S. ROUTE 24 OVER
 SOUTH FORK VERMILION RIVER
 F.A.P. 317 - SECTION (25)BR-2
 LIVINGSTON COUNTY
 STATION 473+87.00
 STRUCTURE NO. 053-0188

Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. B1	F.A.P. RTE. 317	SECTION (25)BR-2	COUNTY LIVINGSTON	TOTAL SHEETS 58	SHEET NO. 24
	26 SHEETS	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 66823		