

Benchmarks: 1.) Top center of Geneva Sesquicentennial Plaque, ±140' South of old walk bridge at bike path, North face ±4.5' ± concrete structure, Sta. 10+60.5/0.0' R.L., Elevation = 675.68.
 2.) "□" top Southwest corner of concrete flower box w/ 2 flag poles, East side of Fox River, ±150' South of State Street Bridge, Sta. 14+53/6.0' R.L., Elevation = 674.90.

Existing Structure: The Island Park North Bridge was built in 1931. The superstructure consists of haunched thru-girders with a concrete deck between the girders. The substructure consists of concrete closed abutments and four concrete solid shaft piers. The back-to-back of abutments dimension measures 182'-6" and the out-to-out dimension measures 8'-8". The span lengths varying from 34'-8" to 38'-0". An electrical conduit is connected to the underside of the deck and will be replaced.

No Salvage.

DESIGN SPECIFICATIONS

AASHTO Guide Specifications for Design of Pedestrian Bridges
 2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

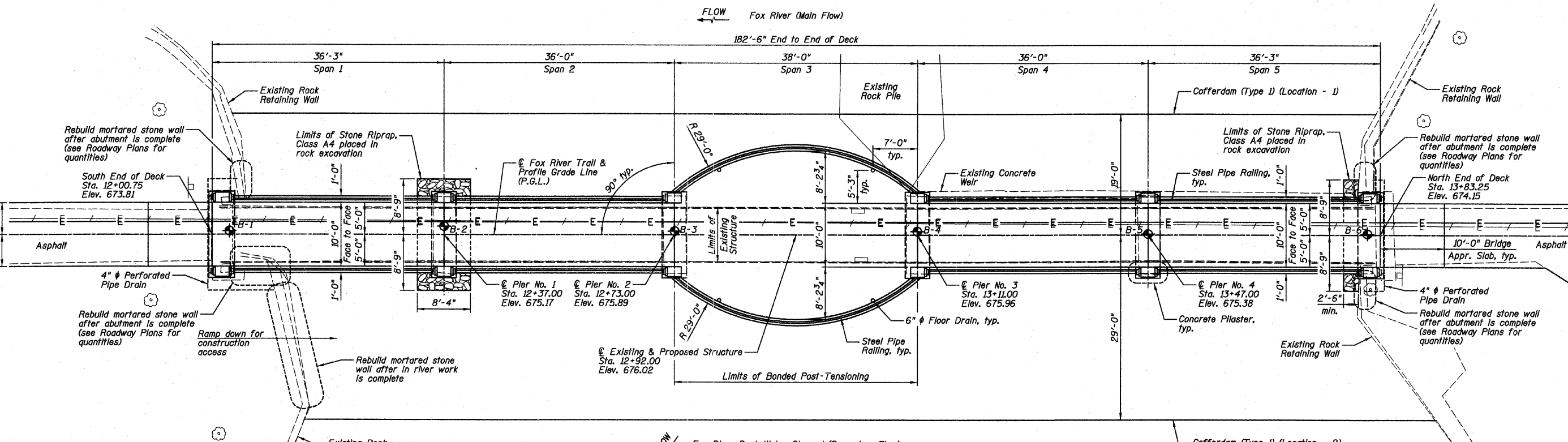
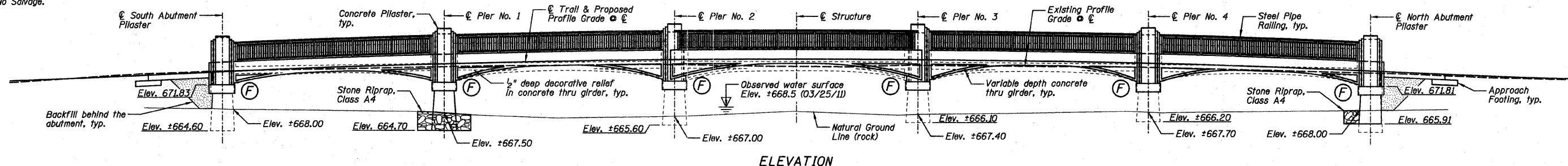
FIELD UNITS
 f'c = 4,000 psi (Cast-In-Place)
 f'ci = 3,500 psi (Cast-In-Place Strength at Stressing)
 fy = 60,000 psi (Reinforcement)
 f's = 270,000 psi (1/2" φ Low Relaxation Post-Tensioning Tendon)
 fsl = 189,000 psi (1/2" φ Low Relaxation Post-Tensioning Tendon)

LOADING

Live Load: 85 psf
 Vehicle Load: 10,000 lb (H-5 truck)
 Future Wearing Surface not allowed

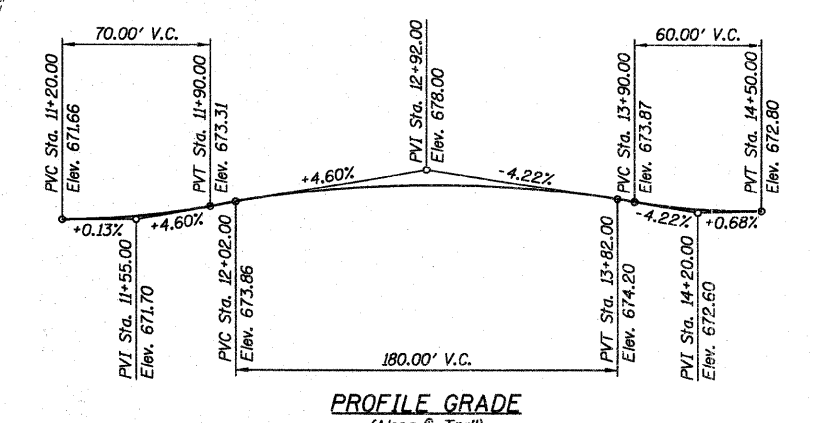
SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.037
 Site Coefficient (S) = 1.0



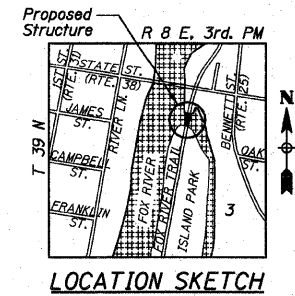
INDEX OF SHEETS

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	GENERAL DATA
B3	TOP OF SLAB ELEVATION LOCATIONS AND ELEVATIONS
B4	TOP OF APPROACH SLAB ELEVATIONS
B5-B7	SUPERSTRUCTURE DECK
B8-B12	SUPERSTRUCTURE GIRDERS
B13	SUPERSTRUCTURE CROSS SECTIONS
B14	SUPERSTRUCTURE DETAILS
B15-B17	DIAPHRAGM DETAILS
B18	BRIDGE APPROACH SLAB DETAILS
B19	DECORATIVE STEEL RAILING DETAILS
B20	SOUTH ABUTMENT REMOVAL
B21	SOUTH ABUTMENT REPLACEMENT
B22	NORTH ABUTMENT REMOVAL
B23	NORTH ABUTMENT REPLACEMENT
B24	PIER NO. 1 REMOVAL
B25	PIER NO. 1 REPLACEMENT
B26	PIER NO. 2 THRU PIER NO. 4 REMOVAL
B27	PIER NO. 2 THRU PIER NO. 4 REPLACEMENT
B28	ELECTRICAL CONDUIT DETAILS
B29	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
B30-B31	SOIL BORING LOGS



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 "AASHTO Guide Specifications for Design of Pedestrian Bridges" and "2002 AASHTO Standard Specifications for Highway Bridges".

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 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/12



**GENERAL PLAN AND ELEVATION
 ISLAND PARK NORTH BRIDGE
 OVER SIDE CHANNEL OF FOX RIVER
 FOX RIVER TRAIL
 SECTION 06-P4005-00-BR
 KANE COUNTY
 STATION 12+92.00**