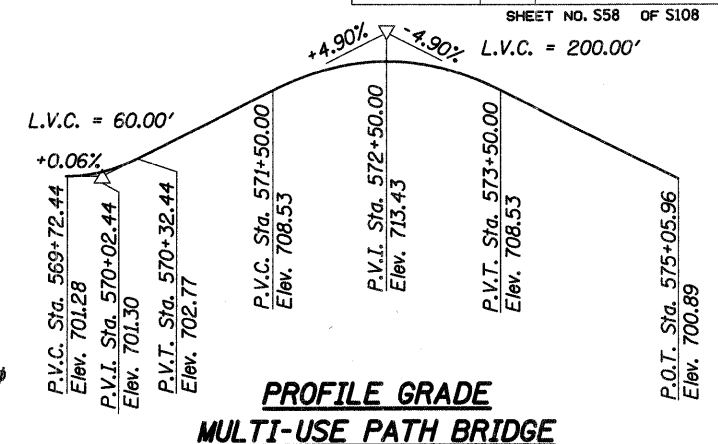
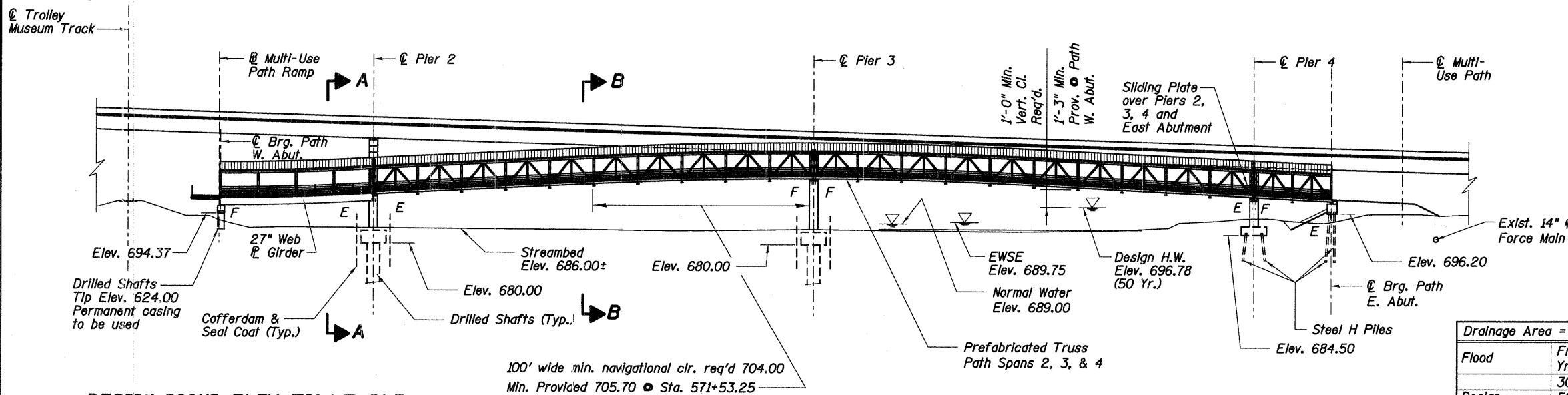


F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361 06-00214-20-BR	KANE	320	163
STA. 511+80.00 TO STA. 609+14.92			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			
		SHEET NO. 558 OF 5108	

Bench Mark BM-19: "Aluminum Disk" set in concrete, 0.10± mile south of Gilbert St. on east side of IL 25 4' ± from split rail fence. Elev. 724.23.
 Bench Mark BM-22: "Chiseled Box Cut" set at the top of concrete bridge headwall, at the NE corner of bridge at the SE corner of Stearns Road and Dunham Road. Elev. 767.36.
 No freefall deckdrains will be permitted in the span over the tracks or within 10' of cross arms of a railroad pole line.
 Existing Structure: None



WATERWAY INFORMATION

Drainage Area = 1,517 Sq. Mi.

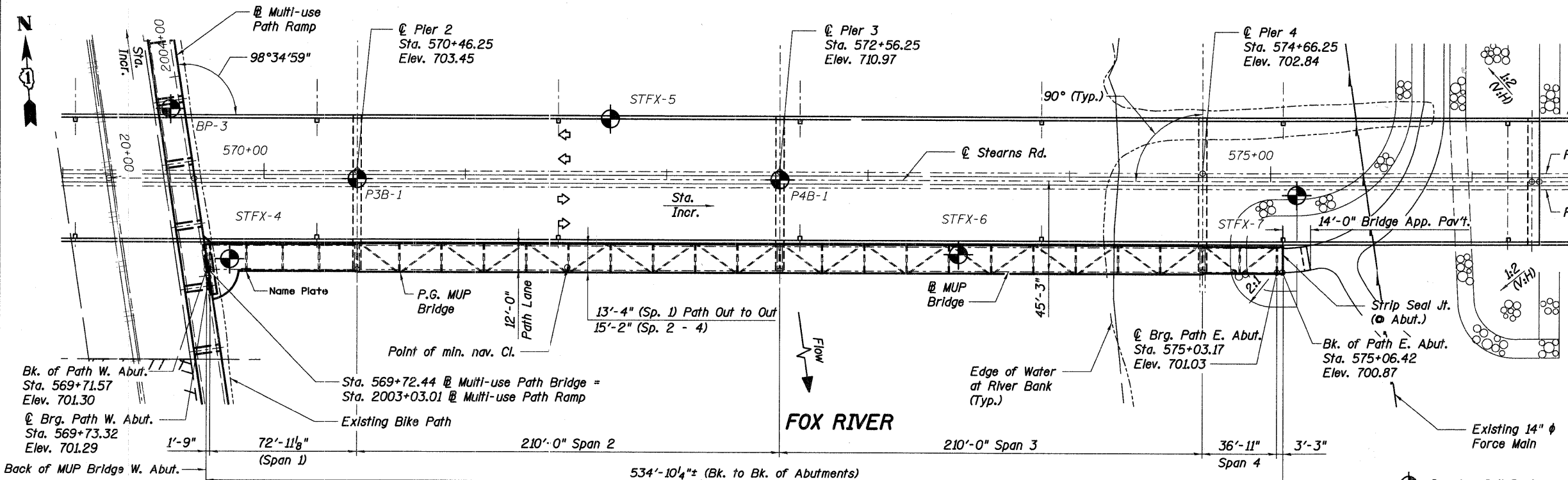
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exst. Prop.	Nat. H.W.E.	Head - Ft. Exst. Prop.	Headwater El. Exst. Prop.
	30	9,948	NA NA	696.08	NA 0.04	NA 696.12
Design	50	11,225	NA NA	696.78	NA 0.02	NA 696.80
Base	100	12,250	NA NA	697.27	NA 0.03	NA 697.30
Max. Calc.	500	16,875	NA NA	699.23	NA 0.02	NA 699.25

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 2	Pier 3	Pier 4	E. Abut.
	678.30	678.30	678.30	678.00	696.20

ELEVATION

100' wide min. navigational clr. req'd 704.00
 Min. Provided 705.70 @ Sta. 571+53.25

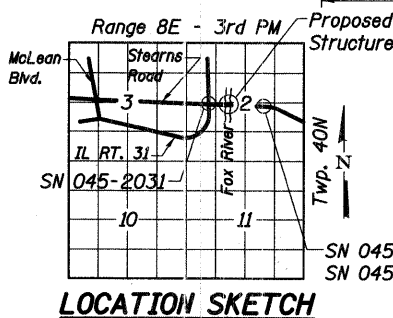


DESIGN SPECIFICATIONS
 2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims
 Guide Specifications for Design of Pedestrian Bridges (Prefabricated Truss)
 ASCE/SEI 7-05 Minimum Design Loads for Buildings and Other Structures (Span 1 Roof Structure)

MULTI-USE PATH BRIDGE LOADING
 85#/sq. ft pedestrian load (Span 1)
 65#/sq. ft pedestrian load (Spans 2 & 3)
 85#/sq. ft pedestrian load (Span 4)
 H-10 Vehicle Loading
ROOF LOADINGS
 Main Wind Force Resistance System:
 Load Case A, $C_{nw} = 14psf$, $C_{nl} = 2psf$
 Load Case B, $C_{nw} = -14psf$ & $C_{nl} = -10psf$
 Wind Load on Components and Cladding
 $C_{nl} = +15psf$, $-10psf$
 Balanced Snow Load = 25psf

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)
 $f_y = 50,000$ psi (Path Bridge Prefabricated Truss steel - M270 Grade 50 and ASTM A847)
 $f_y = 46,000$ psi (Roof framing steel - ASTM A500 Gr. B)

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec (SD1) = 0.061g
 Design Spectral Acceleration at 0.2 sec (SDS) = 0.116g
 Soil Site Class = C

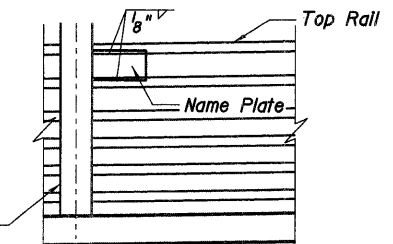


For Section A-A see Sheet S59 of S108.
 For Section B-B see Sheet S59 of S108.

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 LRFD Bridge Design Specifications".



Kenton P. Zimm
 Expires: 11/10



NAME PLATE MOUNTING DETAIL
 (Inside face of Bicycle Rolling, Special)

FOX RIVER
 BUILT 20XX BY
 KANE COUNTY
 SEC. 06-00214-20-BR
 F.A.P. 361 STA. 572+37.71
 STR. NO. 045-3164 LOADING H10

NAME PLATE
 See Std. 515001



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MUP BRIDGE -
GENERAL PLAN AND ELEVATION
 MULTI-USE PATH BRIDGE OVER THE FOX RIVER
 STRUCTURE NUMBER 045-3164
 PUBLIC WATERS
 KANE COUNTY FAP 361 SECTION 06-00214-20-BR
 STATION 572+37.71 DESIGNED: DFM DRAWN: JHJ
 DATE: JANUARY 16, 2009 CHECKED: KPZ CHECKED: KPZ