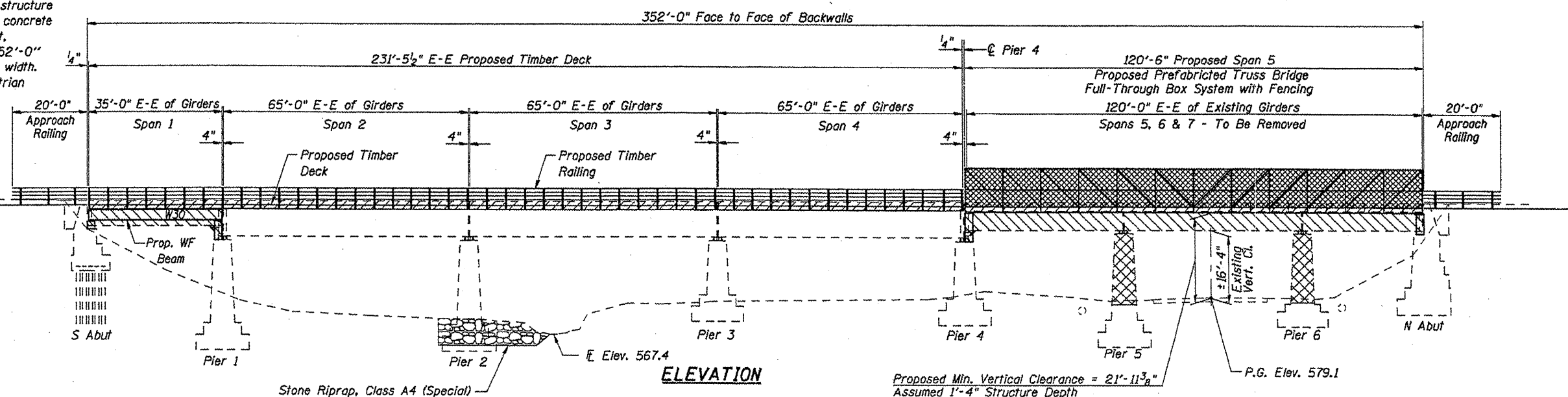
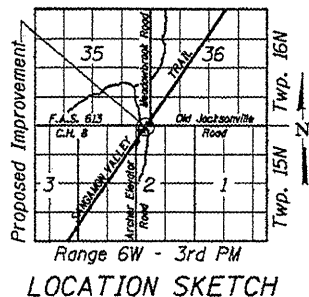


B.M. #9 Chiseled Square on Southwest Corner of Railroad Bridge South Abutment, Station 1053+27.3, 6.4' Lt., Elev. 602.75

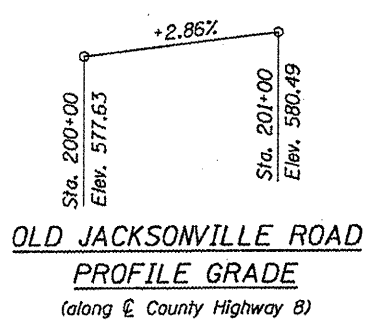
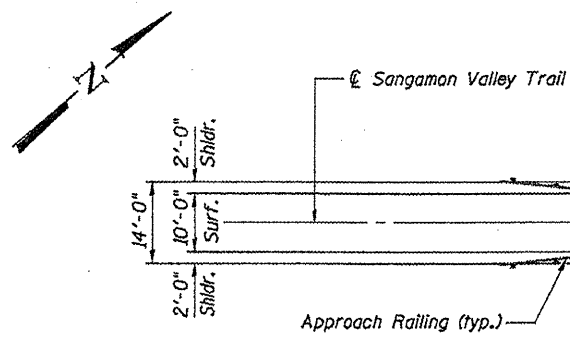
Existing Structure: SN 084-9912, originally built in 1923 as C&NW Railway Bridge 1871 over Jacksonville Road. The existing structure is a 7-span riveted deck plate girder bridge with precast concrete units on spread footing concrete piers and north abutment, and a pile supported south abutment. The structure is 352'-0" fc.-to-fc of abutment backwalls with a 14'-0" o.-o. deck width. The existing structure will be rehabilitated to carry pedestrian traffic.

The Contractor will remove the existing precast concrete units, remove and replace the existing steel in Span 1, remove and replace the existing steel in Spans 5 thru 7 with a prefabricated pedestrian truss bridge spanning from Pier 4 to the North Abutment, remove Pier 5 & 6, modify the existing abutments, add concrete pedestals at Pier 1 & 4, construct a new timber deck and railing, and place riprap at Pier 2.

No Salvage.



- Removal of Existing Precast Concrete Units
- Removal of Existing Substructure
- Removal of Existing Superstructures

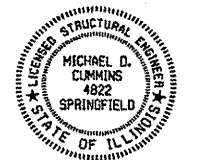


**SEISMIC DATA**  
 Seismic Performance Category (SPC) = A  
 Bedrock Acceleration Coefficient (A) = 0.05g  
 Site Coefficient (S) = 2.0

**DESIGN SPECIFICATIONS**  
 2002 AASHTO  
 1997 AASHTO "Guide Specifications for Design of Pedestrian Bridges".  
**LOADING**  
 Vehicle Load: 10,000lb Emergency Vehicle  
 Pedestrian Load: 85 psf uniform load

**DESIGN STRESSES**  
 $f_c = 3,500$  psi (Substructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_b = 1,500$  psi (Timber)  
 $f_b = 1,850$  psi (Timber Planking)

"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 Guide Specifications for Design of Pedestrian Bridges'".  
 Michael D. Cummins 6/9/09  
 ILLINOIS STRUCTURAL NO. 4822 (Expires 11/30/10)



Revised 4-13-10

**GENERAL PLAN & ELEVATION**  
**SANGAMON VALLEY TRAIL**  
**OVER OLD JACKSONVILLE ROAD**  
**SECTION 05-00173-00-BT**  
**SANGAMON COUNTY**  
**STATION 1055+03.5**  
**SVT BRIDGE NO. 12**  
**STRUCTURE NO. 084-9912**

Sheet 1 of 12	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SVT	05-00173-00-BT	SANGAMON	173	76
	SANGAMON VALLEY TRAIL			CONTRACT NO. 93522	
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT					



JOB = 2192	DESIGNED M.D.C.
FILE = 2192oldjack_gpe.dgn	CHECKED A.A.N.
DATE = 6/9/2009	DRAWN T.S.H.
	CHECKED M.D.C.