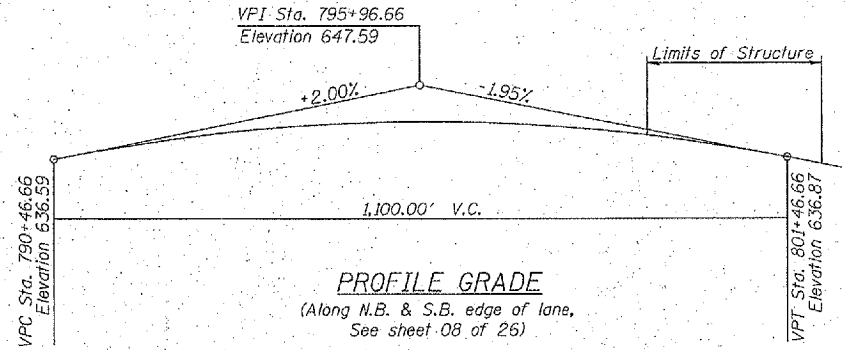
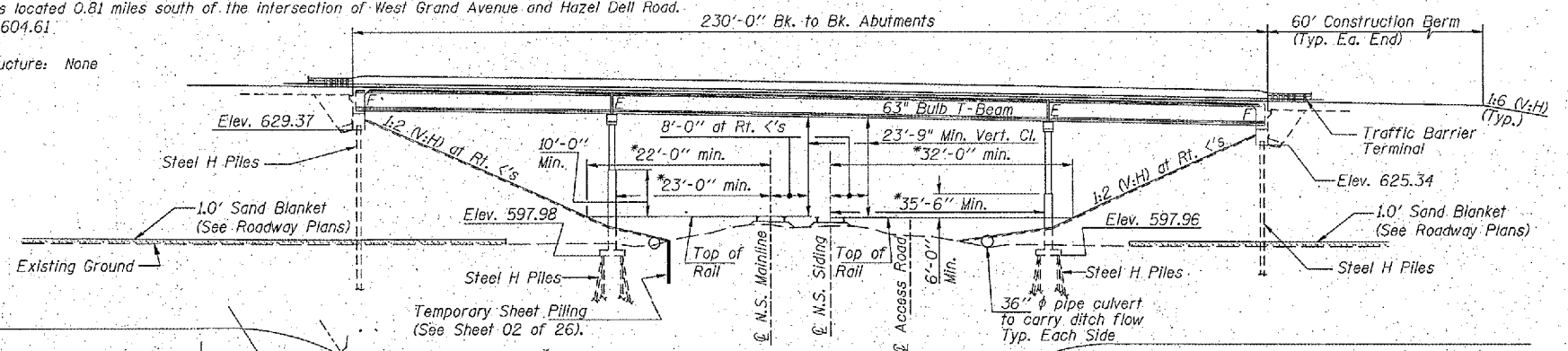


**Bench Marks:**  
 100T BM #15 Chiseled square at the southeast quadrant of the intersection of West Grand Avenue and Hazel Dell Road. Benchmark is located 33 feet south of the centerline of Hazel Dell Road on a headwall of a concrete pipe culvert. NAVD88 El. 602.47  
 100T BM #80 Chiseled cross on the center bolt of the east leg of an iron sign truss over the eastbound lane of Interstate 72. Benchmark is located 1.62 miles east of II Route 4. NAVD88 El. 601.28  
 100T BM #0150 Disk in monument vault on survey calibration baseline. Benchmark is located 13 feet north of the centerline of Hazel Dell Road and 0.5 miles west of the intersection of Hazel Dell Road and West Grand Avenue. NAVD88 El. 600.47  
 100T BM #374 Railroad spike in power pole west of a bike path and southeast of Recreation Drive. Benchmark is located 0.81 miles south of the intersection of West Grand Avenue and Hazel Dell Road. NAVD88 El. 604.61

PROJECT NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.U.	4	SANGAMON	559	227
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		27 SHEETS
02-00382-02-PV				

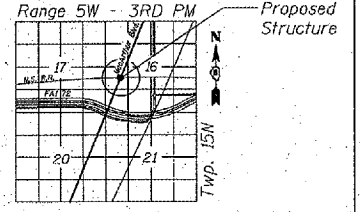
Existing Structure: None



**DESIGN SPECIFICATIONS**  
 AASHTO 2002  
**LOADING HS20-44**  
 Allow 50 psf for future wearing surface.

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

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinf.)  
**PRECAST PRESTRESSED UNITS**  
 $f'_c = 6,000$  psi  
 $f'_{ci} = 5,000$  psi  
 $f'_s = 270,000$  psi (1/2" low lax strands)  
 $f_{sl} = 201,960$  psi (1/2" low lax strands)

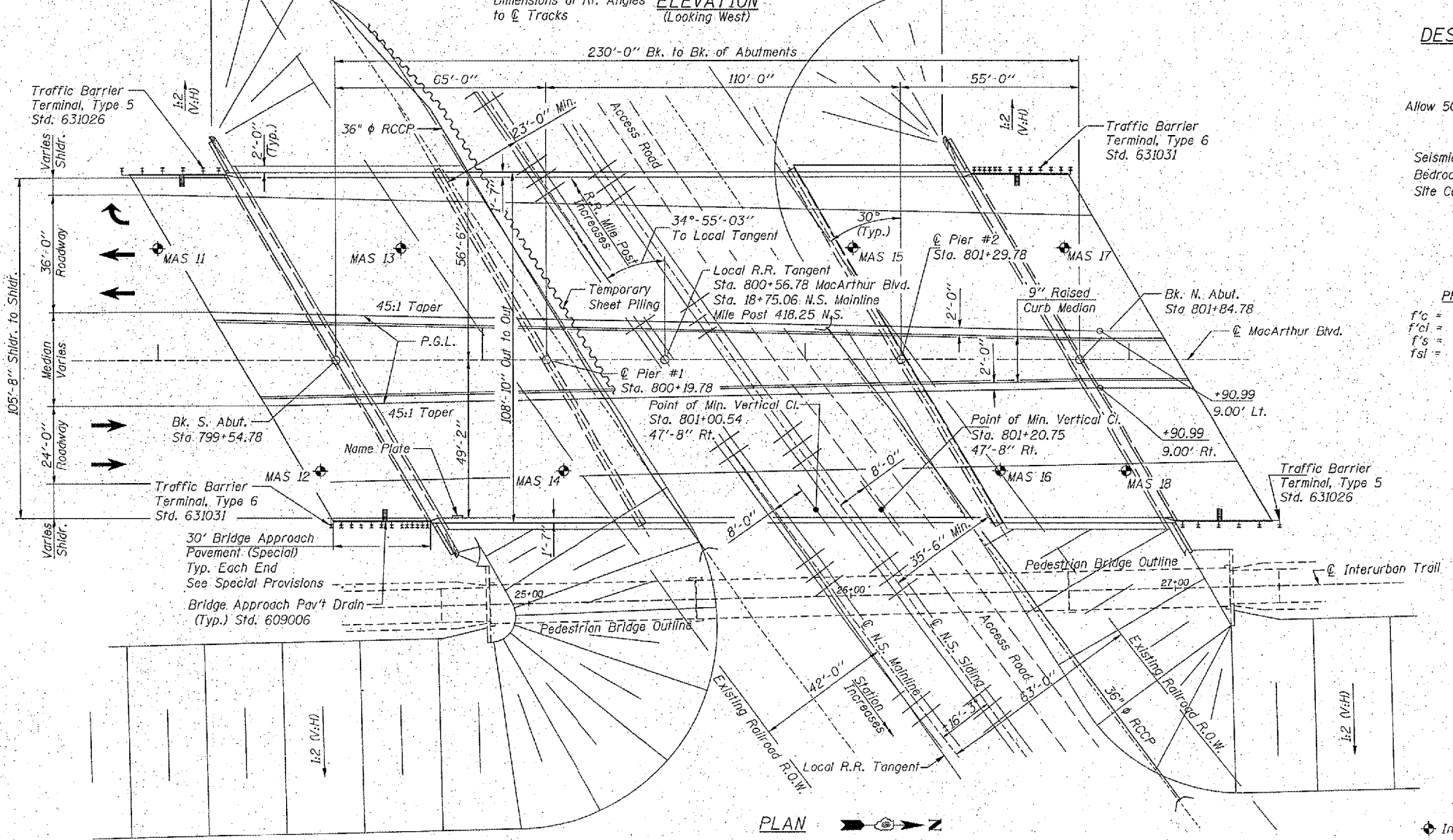


**LOCATION SKETCH**

**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY

Signature: *Robert E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

SIGNATURE: \_\_\_\_\_  
 DATE SIGNED: 11-20-07  
 LIC. EXP. DATE: 11-20-08



Indicates Boring Location

DATE: 10/30/05  
 SHEET NO.: 27  
 SHEETS: 27

LAYOUT	JMM	10/27/05
DRAWN	DMP	07/04/05
REVIEWED	JMM	02/24/05

Corporate License Number 184-001-084

**GENERAL PLAN AND ELEVATION**  
 MACARTHUR BLVD. OVER N.S. R.R.  
 SECTION 02-00382-02-PV  
 SANGAMON COUNTY  
 STATION 800+69.78  
 STRUCTURE NUMBER 084-0512