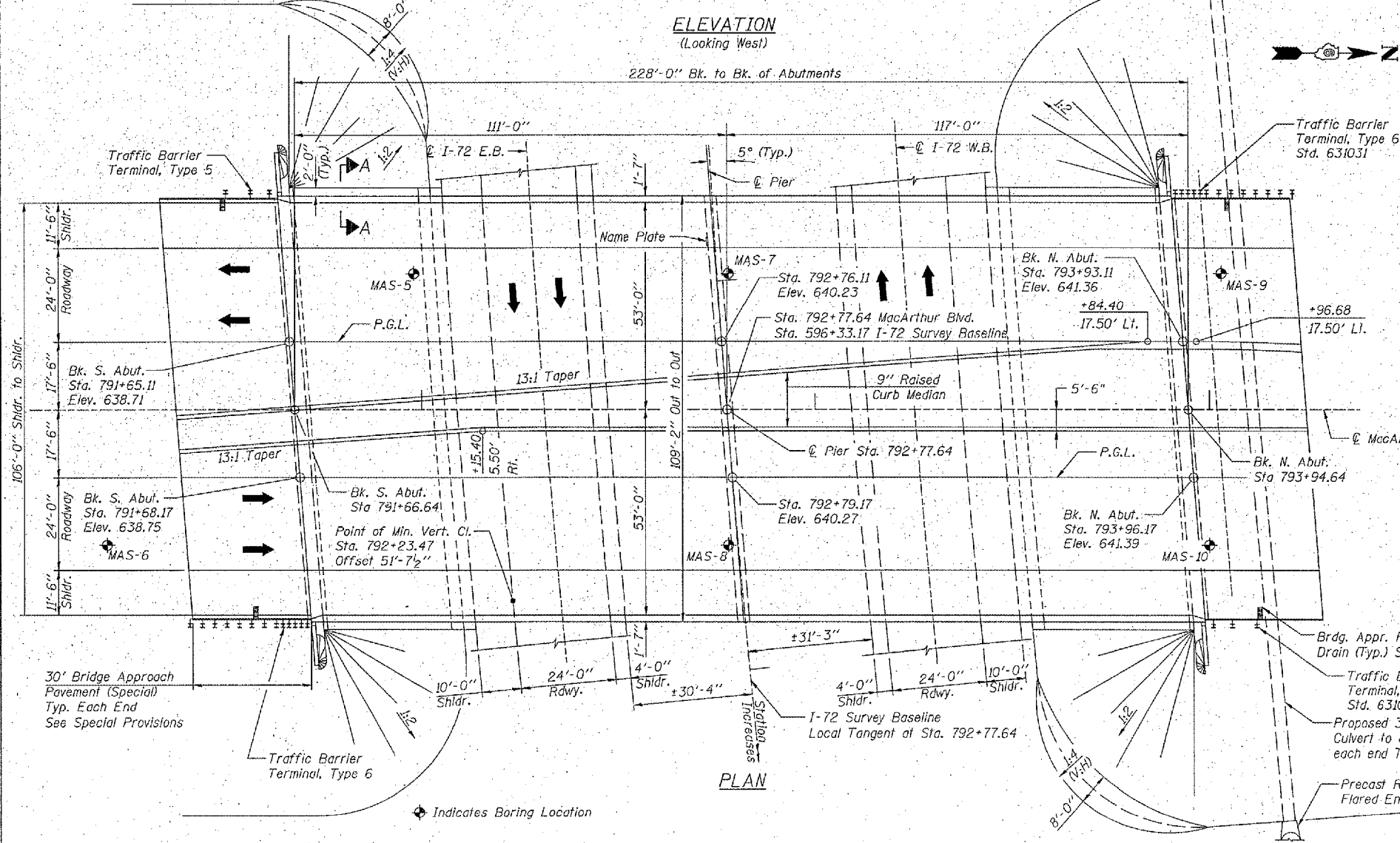
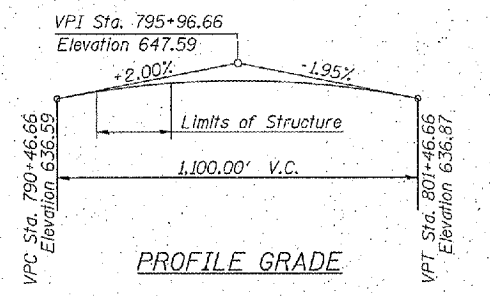
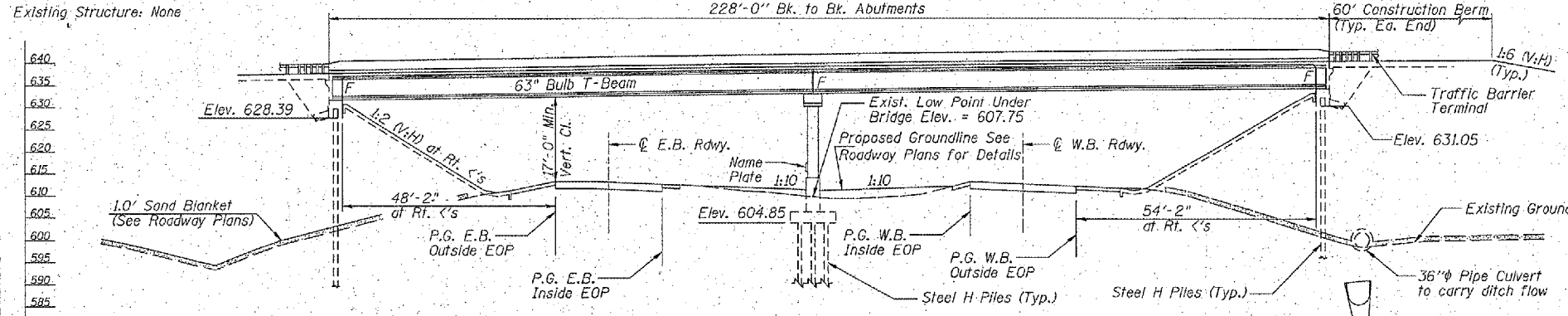


**Bench Marks:**  
 IDOT BM #15 Chiseled square at the southeast quadrant of the intersection of West Grand Avenue and Hazel Dell Road. Benchmark is located 33 feet south of the centerline of Hazel Dell Road on a headwall of a concrete pipe culvert. NAVD88 El. 602.47  
 IDOT BM #80 Chiseled cross on 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 Il Route 4. NAVD88 El. 601.28  
 IDOT 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  
 IDOT 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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 8071	#	SANGAMON	559	203
24 SHEETS				
FED. ROAD DIST. NO. 7		F.L.D. NO.	FED. PROJ. PROJECT	
(84-9-4)A, HBK, BY, BY-1			Contract No. 72541	

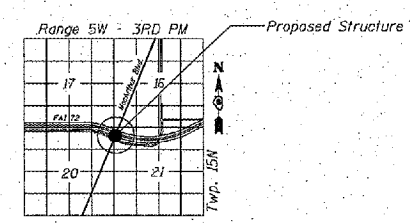


**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY  
*Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**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

**CURVE DATA**  
 (I-72 Survey Baseline)  
 P.I. STA = 607+25.73  
 Δ = 36° 03' 13" (L.I.)  
 D = 01° 36' 09"  
 R = 3,575.66'  
 T = 1,163.65'  
 L = 2,250'  
 E = 184.58'  
 P.C. STA = 595+62.07  
 P.T. STA = 618+12.07  
 e = 4.5%  
 S.E. ATTN: 594+35 TO 596+35  
 617+52 TO 619+52

**DESIGN STRESSES**  
 FIELD UNITS  
 f'c = 3,500 psi  
 fy = 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)  
 fsi = 201,960 psi (1/2" low lax strands)



**REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS**  
 43764  
 SIGNATURE: [Signature]  
 DATE SIGNED: 1-26-07  
 LIC. EXP. DATE: 1-1-10

LOCATION SKETCH

Corporate License Number 184-001-084

**GENERAL PLAN AND ELEVATION**  
 MACARTHUR BLVD. OVER F.A.I. 72  
 SECTION (84-9-4)A, HBK, BY, BY-1  
 SANGAMON COUNTY  
 STATION 792+77.64  
 STRUCTURE NUMBER 084-0513

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 96S2002B  
 02/02/05  
**HANSON**

LAYOUT 10/22/04  
 DRAWN 01/04/05  
 REVIEWED JWM 02/02/05  
 1566J0558e2002a-StructXSN 084-0513.dgn  
 02/26/2007