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

Existing Structure: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note:
No deck drains will be permitted in the span over tracks or within 10' of crossarms of a railroad pole line.
An unconfined compressive strength of 1.5 tons is required during placement of embankment material.
The piles at the abuments should be driven through 18" ϕ pre-cored holes extending to Elev. 601.5 at the W. Abut. and 601.0 at the E. Abut. or to the present ground elevation or whichever occurs first.

FAI 72 FAU 8021	*	SANGAMON		

SHEET NO. 01
02 SHEETS

*184-9-4)HBK,BY,BY-1

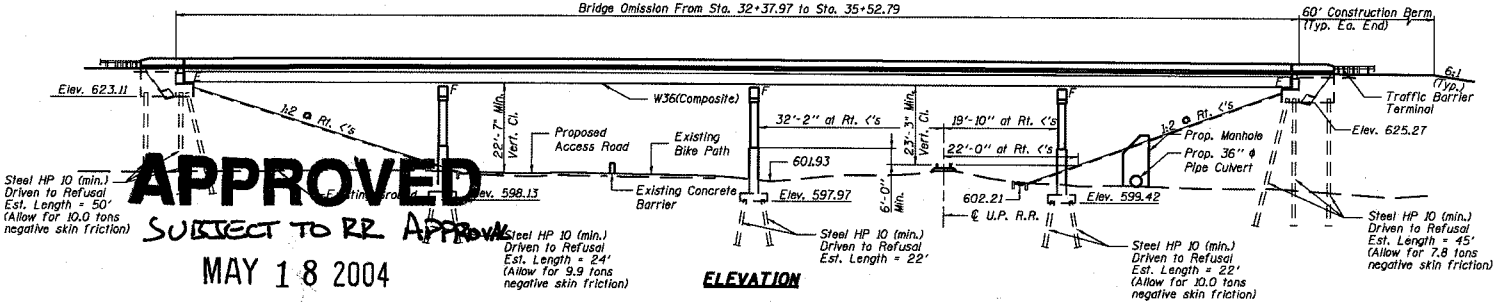
CURVE DATA
(Curve Ramp_B2)
P.I. STA= 35+87.62
Δ= 12° 02' 48" (Rt.)
D= 01° 58' 33"
R= 2,900.00'
T= 306.00'
L= 609.74'
E= 16.10'
P.C. STA= 32+81.62
P.T. STA= 38+91.36
e= 3.80%
S.E. ATTN: 32+20.00 (2.0%) TO 33+10.00 (3.8%)
37+61.36 (3.8%) TO 41+91.36 (0.0%)

DESIGN SPECIFICATIONS
AASHTO 2002
2003 Curved Girder Spec.

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

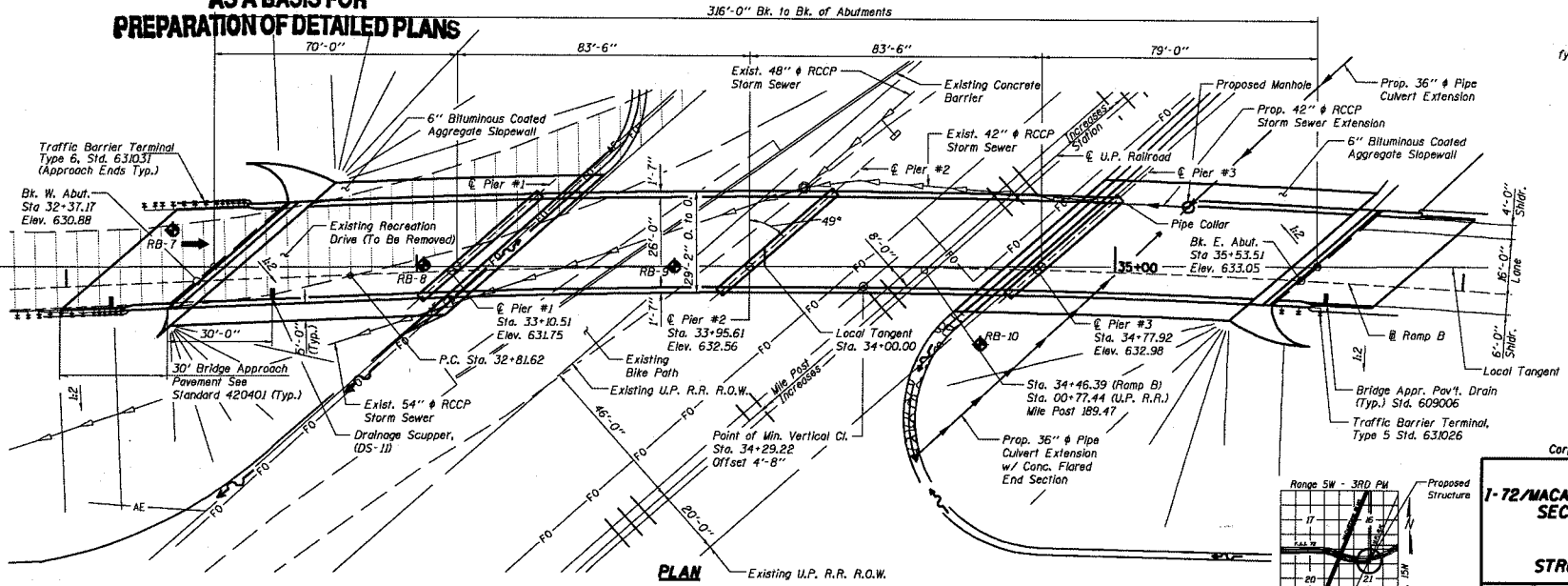
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinf.)
fy = 50,000 psi (M270 Grade 50)



ELEVATION

APPROVED
SUBJECT TO RR. APPROVAL
MAY 18 2004

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

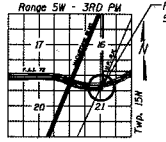


PLAN

Indicated Boring Location

HIGHWAY CLASSIFICATION

Functional Class:	RAMP B INTERSTATE	
DHV:	785	(2023)
ADT:	7850	(2023)
ADTT:	160	(2023)
Design Speed:	50 m.p.h.	



LOCATION SKETCH

Corporate License Number 184-001-084

GENERAL PLAN
I-72/MACARTHUR BLVD. RAMP B OVER UPRR
SECTION (84-9-4)HBK,BY,BY-1
SANGAMON COUNTY
STATION 33+95.61
STRUCTURE NUMBER 084-0514

JOB: 96S2002B
DATE: 05/27/03

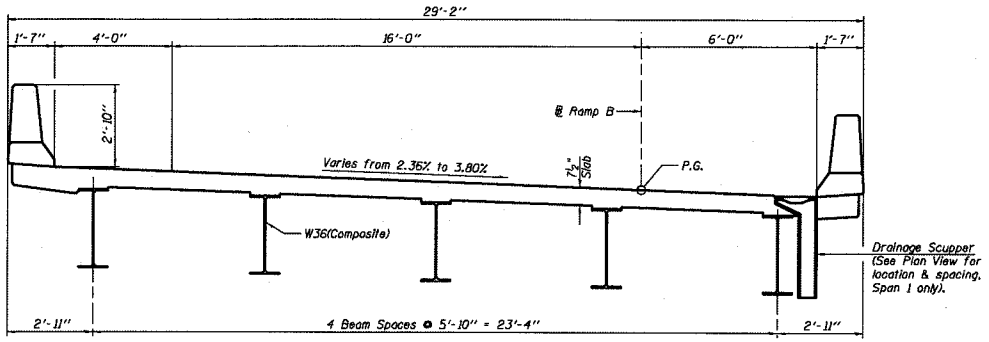
DRAWN	DAP	01/17/03
REVIEWED	JRM	10/21/03

N:\96S2002B\Sta2002B\Struct\Ramps over UPRR\72 EB RAMP (B)\RAMP B\NT50_Gen4.dgn
05/12/2004

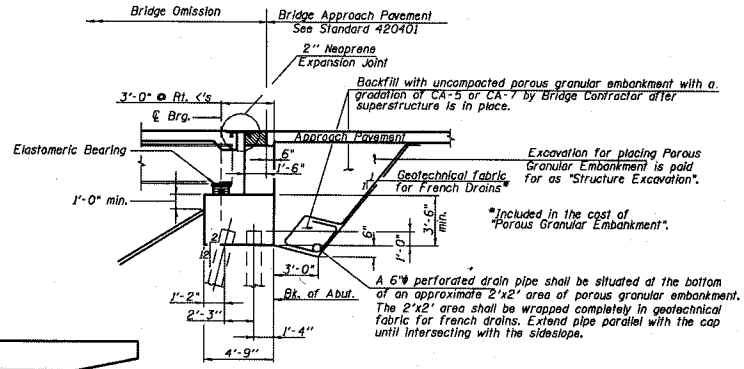
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 72 FAU 8021	*	SANGAMON			SHEET NO. 02 02 SHEETS

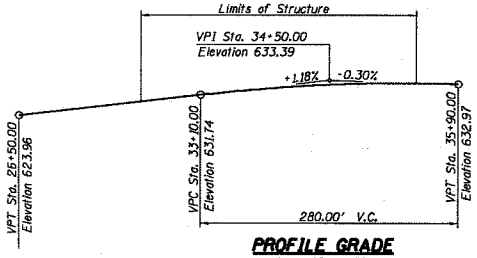
*(84-9-4)HBK,BY,BY-1



CROSS SECTION
(Horizontal dimensions measured radially)



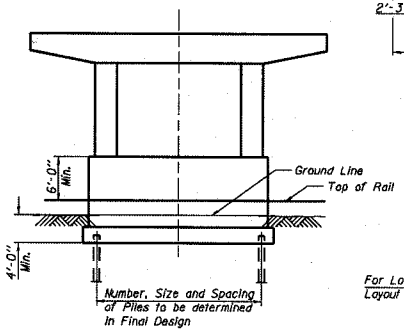
SECTION THRU ABUTMENT
(Dimensions @ Rt. <'s to Bk. of Abutment)



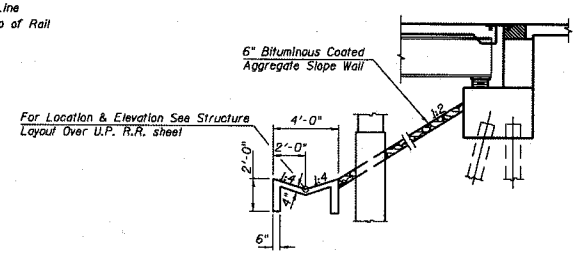
PROFILE GRADE
(Along Ramp B)

West Rail		East Rail	
Station	Elevation	Station	Elevation
0+00.00	605.31	0+00.03	605.33
0+67.95	605.32	0+67.76	605.35
1+83.47	605.26	1+83.48	605.25
2+80.82	605.24	2+80.71	605.24
3+81.80	605.12	3+81.74	605.13
4+81.65	605.26	4+81.69	605.24
5+78.38	605.39	5+78.51	605.36

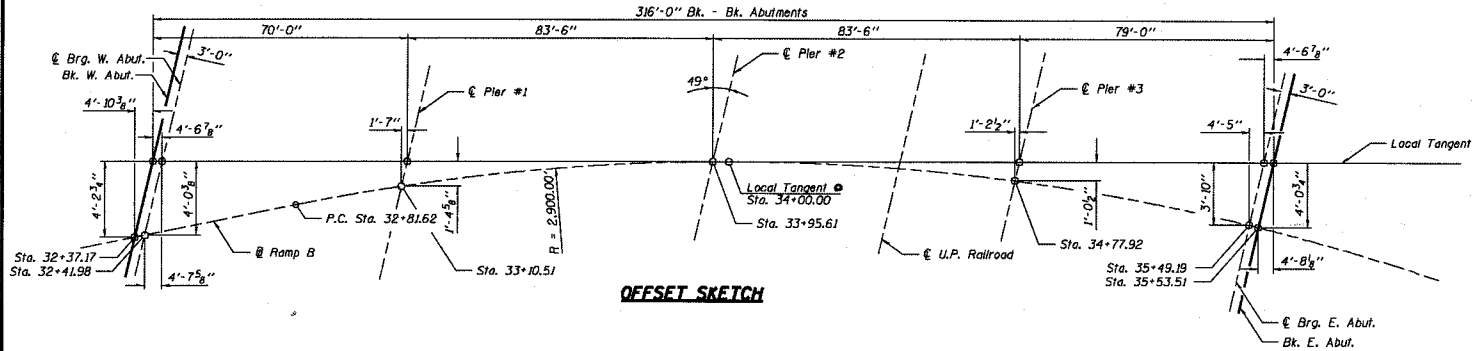
EXISTING TOP OF RAIL ELEVATIONS UP R.R.



PIER SKETCH



SECTION THRU SLOPEWALL



OFFSET SKETCH

Corporate License Number 184-001-084

DETAILS
I-72/MACARTHUR BLVD. RAMP B OVER UPRR
SECTION (84-9-4)HBK,BY,BY-1
SANGAMON COUNTY
STATION 33+95.61
STRUCTURE NUMBER 084-0514

	96S2002B
	05/27/03

REVIEWED	MNK	10/27/03

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05/12/2004