

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465 (HB&VB) F	COOK	31	2A
STA. 173+50 TO STA. 195+00		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
Contract # 60121		SHEET NO. S1 of 530		

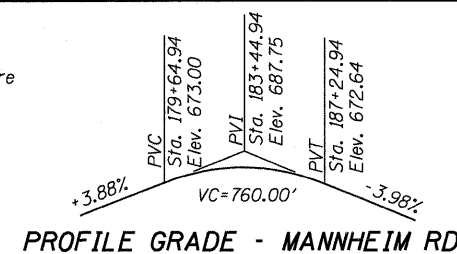
Bench Mark: "X" Cut on Top Row of N.W. bolt of Fire Hydrant W. Side of Mannheim Road and first Fire Hydrant S. of Bridge over RR Tracks and Franklin Ave.
 Existing Structure: No. 016-0335. Built as US 12/20/45 (Mannheim Rd.) Sec. 465 VB-R-1 in 1940. Structure widened and rehabilitated in 1978. The superstructure consists of a R.C. deck 1250' long by 100.1' wide supported on 19 spans of Rolled Girder and riveted Plate Girder. Traffic shall be maintained during Structure rehabilitation by staged construction.
 Salvage Materials: None.

DESIGN SPECIFICATIONS
 2002 AASHTO Std. Spec. for Highway Bridges

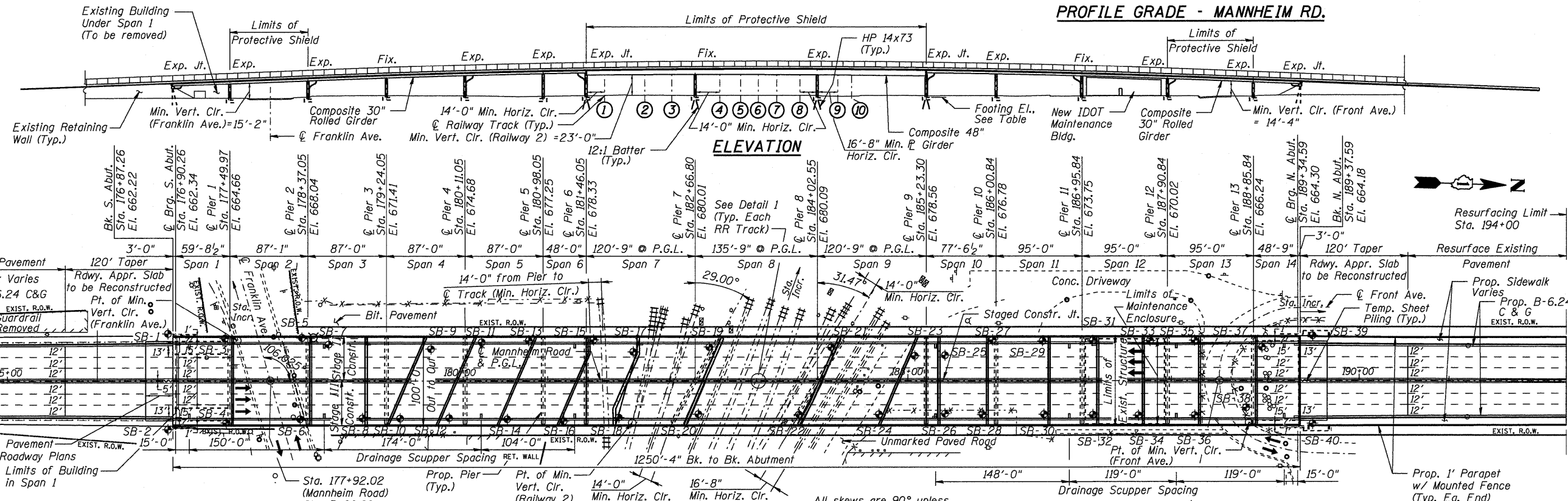
DESIGN STRESSES
 $f'_c = 3.5$ ksi (Concrete)
 $f_y = 50$ ksi (M270 Gr. 50 Struct. Steel)
 $f_y = 60$ ksi (Reinforcement)

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site Coefficient (S) = 1.0

LOADING HS20-44
 Allow 50 Lbs/Ft² for future wearing surface.

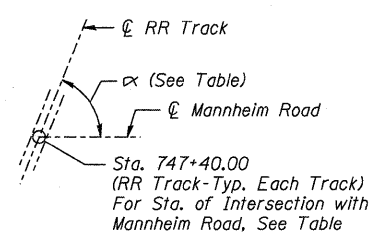


Pier	Approx. Bot. Ftg. El.
1	640.5
2	640.5
3	642
4	640.5
5	641
10	643
11	643
12	643
13	640.5



Rail No.	Sta. (Mannheim Road)	α (Degree)	Sta. "A"	Elev. "B"	Sta. "C"	Elev. "D"
1	181+62.21	90.8	746+90.00	649.51	747+90.00	649.14
2	182+08.60	74.8	746+88.19	650.20	747+91.81	650.08
3	182+37.99	71.3	746+87.22	650.34	747+92.78	650.17
4	182+90.63	67.8	746+86.01	649.85	747+93.99	649.92
5	183+13.70	67.7	746+85.96	650.08	747+94.04	649.97
6	183+33.30	68.0	746+86.09	649.90	747+93.91	649.92
7	183+53.83	68.9	746+86.42	649.84	747+93.58	650.03
8	183+81.86	58.5	746+81.33	649.82	747+98.67	650.01
9	184+22.26	58.6	746+81.43	649.09	747+98.57	649.11
10	184+37.67	58.6	746+81.42	648.99	747+98.58	648.99

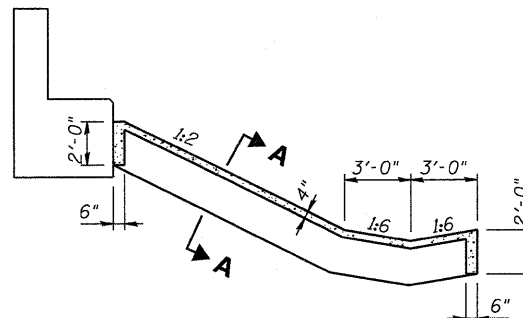
TOP OF RAIL ELEVATIONS



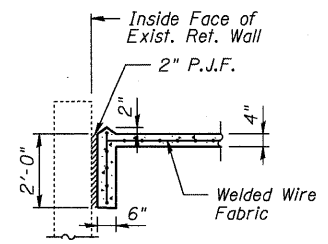
DETAIL 1

STATION 183+33.30
 BUILT 200_ BY
 STATE OF ILLINOIS
 FAP RT. 330 SEC. 465 VB-R-1
 LOADING HS20
 STR. NO. 016-2815

NAME PLATE
 (See Std. 515001)

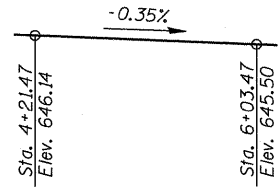


TYPICAL SECTION THRU SLOPE WALL
 (South Abutment shown, North is similar)

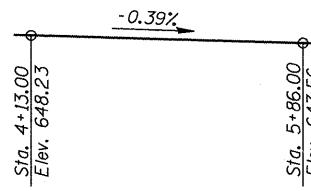


SECTION A-A

Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



PROFILE GRADE - FRANKLIN AVE.
 (Along N. Edge of Pavement)



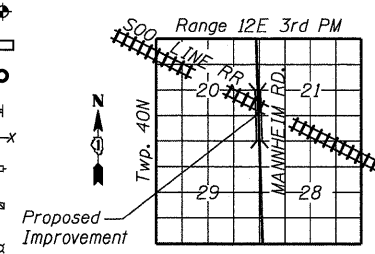
PROFILE GRADE - FRONT STREET

All skews are 90° unless otherwise noted.

PLAN

LEGEND

- Boring Location
- Drainage Scupper
- Manhole
- Street Sign
- Fence
- Power Pole
- Switch Control Box
- Fire Hydrant
- Gas Valve



LOCATION SKETCH

NOTES

1. Elevations "B" and "D" represent top of rail elevations at approximately the fascia line of each side of the proposed new structure.
2. No deck drains will be permitted in the spans over tracks or within 10' of cross arms of a railroad pole line.
3. Conduits to be provided in sidewalk for future bridge lighting.

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 Ralph E. Anderson (PE)
 ENGINEER OF BRIDGES AND STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
 FAP 330 US 12/45 (MANNHEIM RD.) OVER
 500 LINE RR & FRANKLIN AVE.
 STRUCTURE NO. 016-2815
 SECTION 465 (HB & VB) F
 STA. 183+33.30
 DATE 6/2009
 COOK COUNTY
 DRAWN BY JHR
 CHECKED BY DSB

EARTH TECH | AECOM