B.M. 102: Chiseled Square S.E. corner of the base of the walk/don't walk traffic signal on bridge S.N. 015-0064, Elev. 738.58

Original Structure: SN 015-0014, 5-span structure built in 1915, improved in 1930 as ICRR Bridge 172-5, and widened in 1948 as SBI 25, Section 19VB, Station 30+77.15 was completely replaced in 1981 by SN 015-0064.

Existing Structure: SN 015-0064, built in 1981 as FAP 91, Section 19VBR at Station 30+63.74. The existing structure is a 4-span PPC Deck Beam bridge on closed abutments and multi-column piers with adjacent retaining walls at all four corners of the structure. The southwest retaining wall is owned by the Canadian National Railroad. The structure is 90'-6⅛" bk.-to-bk. of abutments and 70'-0" o.-o. of deck and varies. The existing superstructure will be replaced along with additional work as required to repair the northeast and southwest retaining walls.

Traffic is to be detoured.

Salvage: Suitable sections of the existing railing to be salvaged and re-used.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.06g
Site Coefficient (s) 1.5

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

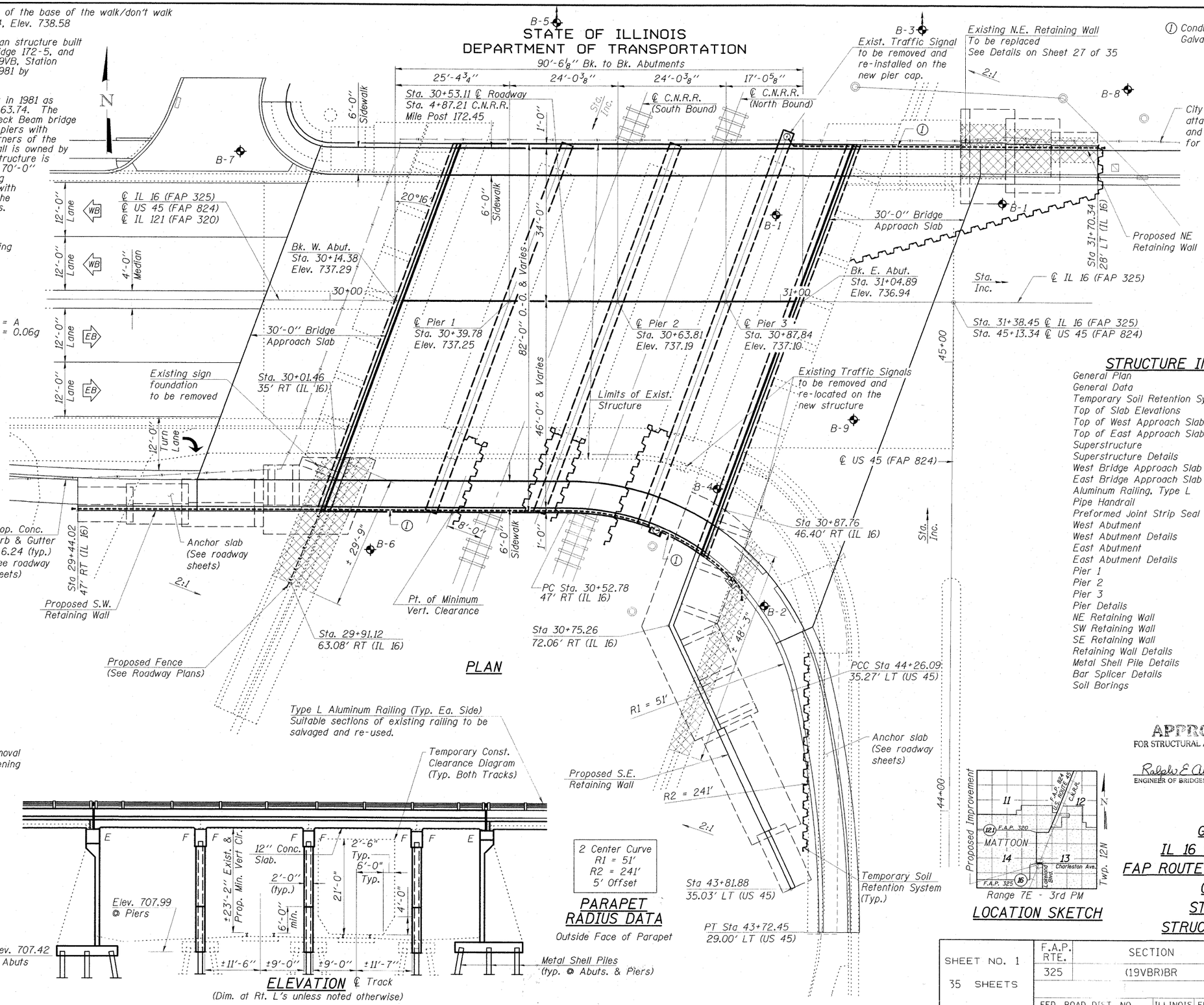
Allow 25#/Sq. Ft. for future wearing surface

DESIGN STRESSES

Field Units (New & Existing)

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

LEGEND

B-1 Soil Borings (1975)

Indicates retaining wall removal required for structure widening

Type L Aluminum Railing (Typ. Ea. Side)
Suitable sections of existing railing to be salvaged and re-used.

ELEVATION ℄ Track

(Dim. at Rt. L's unless noted otherwise)

2 Center Curve
R1 = 51'
R2 = 241'
5' Offset

PARAPET RADIUS DATA

Outside Face of Parapet

Metal Shell Piles (typ. @ Abuts. & Piers)

STRUCTURE INDEX OF SHEETS

General Plan	Dwg. No. 1 of 35
General Data	Dwg. No. 2 of 35
Temporary Soil Retention System	Dwg. No. 3 of 35
Top of Slab Elevations	Dwg. No. 4-5 of 35
Top of West Approach Slab Elevations	Dwg. No. 6 of 35
Top of East Approach Slab Elevations	Dwg. No. 7 of 35
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Superstructure Details	Dwg. No. 9-11 of 35
West Bridge Approach Slab Details	Dwg. No. 12-13 of 35
East Bridge Approach Slab Details	Dwg. No. 14-15 of 35
Aluminum Railing, Type L	Dwg. No. 16 of 35
Pipe Handrail	Dwg. No. 17 of 35
Preformed Joint Strip Seal	Dwg. No. 18 of 35
West Abutment	Dwg. No. 19 of 35
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East Abutment	Dwg. No. 21 of 35
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Pier 1	Dwg. No. 23 of 35
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SW Retaining Wall	Dwg. No. 28 of 35
SE Retaining Wall	Dwg. No. 29 of 35
Retaining Wall Details	Dwg. No. 30 of 35
Metal Shell Pile Details	Dwg. No. 31 of 35
Bar Splicer Details	Dwg. No. 32 of 35
Soil Borings	Dwg. No. 33-35 of 35

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS RICHARD A. HANK No. 4647 LICENSED STRUCTURAL ENGINEER
EXPIRES 11-30-10
SIGNATURE
08/03/09 DATE

LOCATION SKETCH

GENERAL PLAN
IL 16 OVER CN RAILROAD
FAP ROUTE 325-SECTION (19VBR)BR
COLES COUNTY
STATION 30+53.11
STRUCTURE NO. 015-0064

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
35 SHEETS	325	(19VBR)BR	COLES	92	25
			CONTRACT NO. 74149		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ESCA CONSULTANTS, INC.

DESIGNED BY:	DAJ	03/09
DRAWN BY:	DWH	03/09
CHECKED BY:	MTD	03/09
APPROVED BY:	TDJ	08/09