F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	24	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*70HB-F & 70D-Y-B-F CONTRACT NO. 60B70

BENCH MARK

Chiseled '□' NW Corner of West Abutment of IL-68 bridge over UPRR
Elev. 269.746

EXISTING STRUCTURE

S.N. 016-0523 was built in 1931. The structure was widened, raised, and the superstructure replaced in 1967. In 1994, bituminous overlay was added. The three span structure rests on spread footings at the closed abutments and spread footings at the multi-column piers. The superstructure consists of 690mm deep concrete deck beams with 75mm of overlay. The concrete parapets have steel railings with a fence on the northside. The back to back abutment length is 42.52m and the deck is 23.16m out to out.

During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.

NOTES:

1. All dimensions in millimeters (mm) except as noted.
2. No free fall deck drains will be permitted in the span over the tracks or within 3m of cross arms of a railroad pole line.
3. The width between the guardrails shall be the width between the bridge rails or parapets which will require approach shoulder widening.

STATION 9+900.324
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 343 SEC 2004-132B
COOK COUNTY
LOADING HS20
STR. NO. 016-2732

NAME PLATE

See Std. 515001

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

2002 AASHTO Std. Spec. 17th edition

DESIGN STRESSES

NEW CONSTRUCTION

FIELD UNITS
f'c = 24 MPa (concrete)
Fy = 345 MPa (M270M, Gr. 345 Struc. Steel)
fy = 400 MPa (reinforcement)

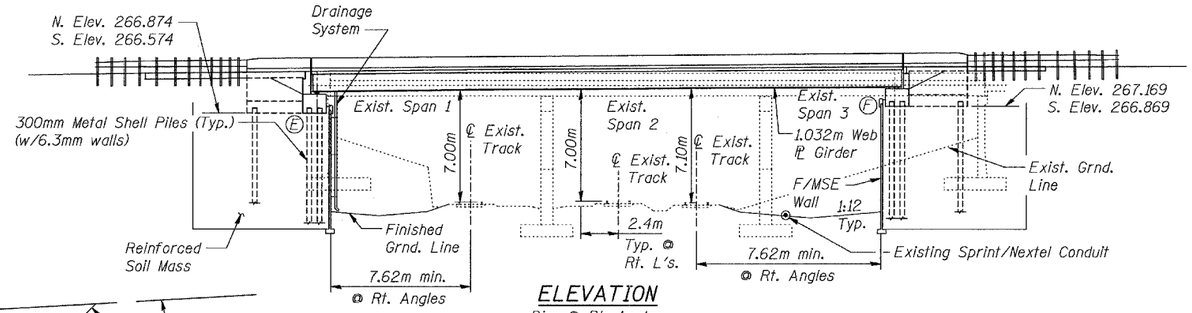
SEISMIC DATA

Seismic Performance Category (SPC)= A
Bedrock Acceleration Coefficient (A)= 0.035g
Site Coefficient (S) = 1.0

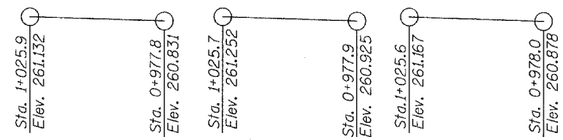
HORIZONTAL CURVE DATA

Curve 68-1

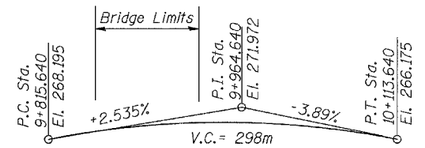
PI Sta. = 9+966.854
Δ = 14°54'14" RT.
R = 875.000m
T = 114.450m
L = 227.607m
E = 7.453m
S.E. = 2.4%
P.C. Sta. = 9+852.405
P.T. Sta. = 10+080.012



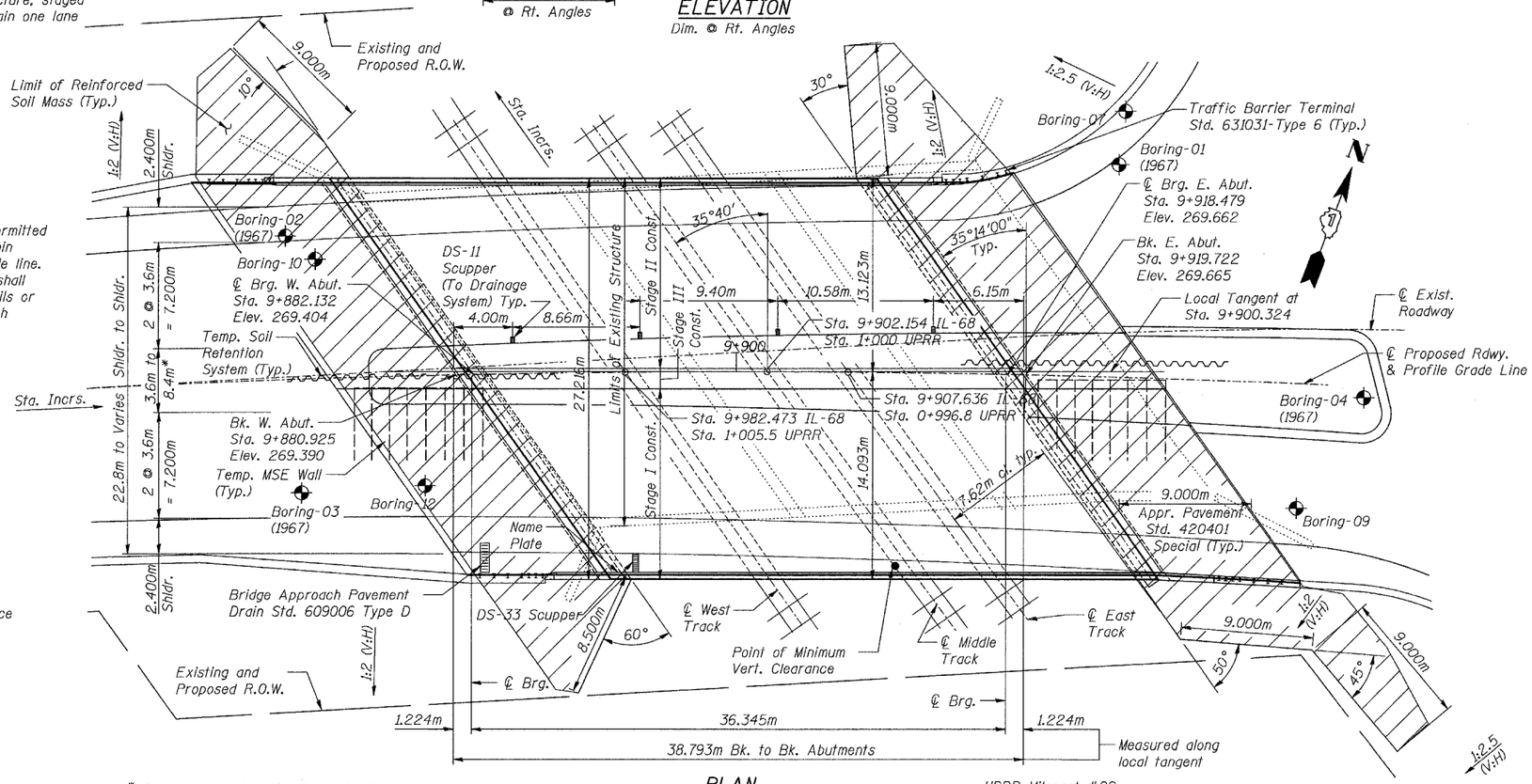
ELEVATION
Dim. @ Rt. Angles



TOP OF RAIL ELEVATIONS UPRR



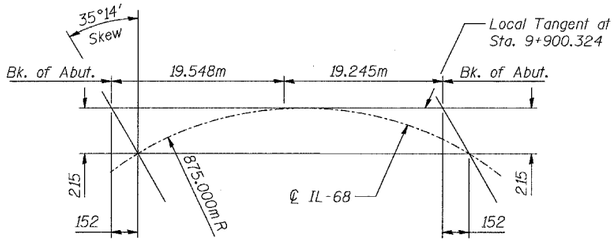
PROFILE GRADE LINE
IL Route 68



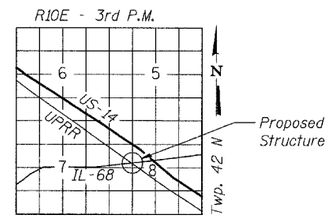
* See roadway plans for taper locations

PLAN

UPRR Milepost #29
Sta. 0+719



OFFSET SKETCH



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
JOHN A. KOO
81-004960
PALATINE
LICENSED STRUCTURAL ENGINEER
LICENSE EXPIRES
11/30/06

SHT. S-12 OF S-24

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US-14 & UPRR
F.A.P. ROUTE 343 SECTION 70HB-F & 70D-Y-B-F
COOK COUNTY
STRUCTURE NO. 016-2861 & 016-2732

GENERAL PLAN - SN 016-2732

DESIGNED: BTO DRAWN: BTO
DATE: 6/06 CHECKED: JAN CHECKED: JAN

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