

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	186
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 62897				

BENCH MARK

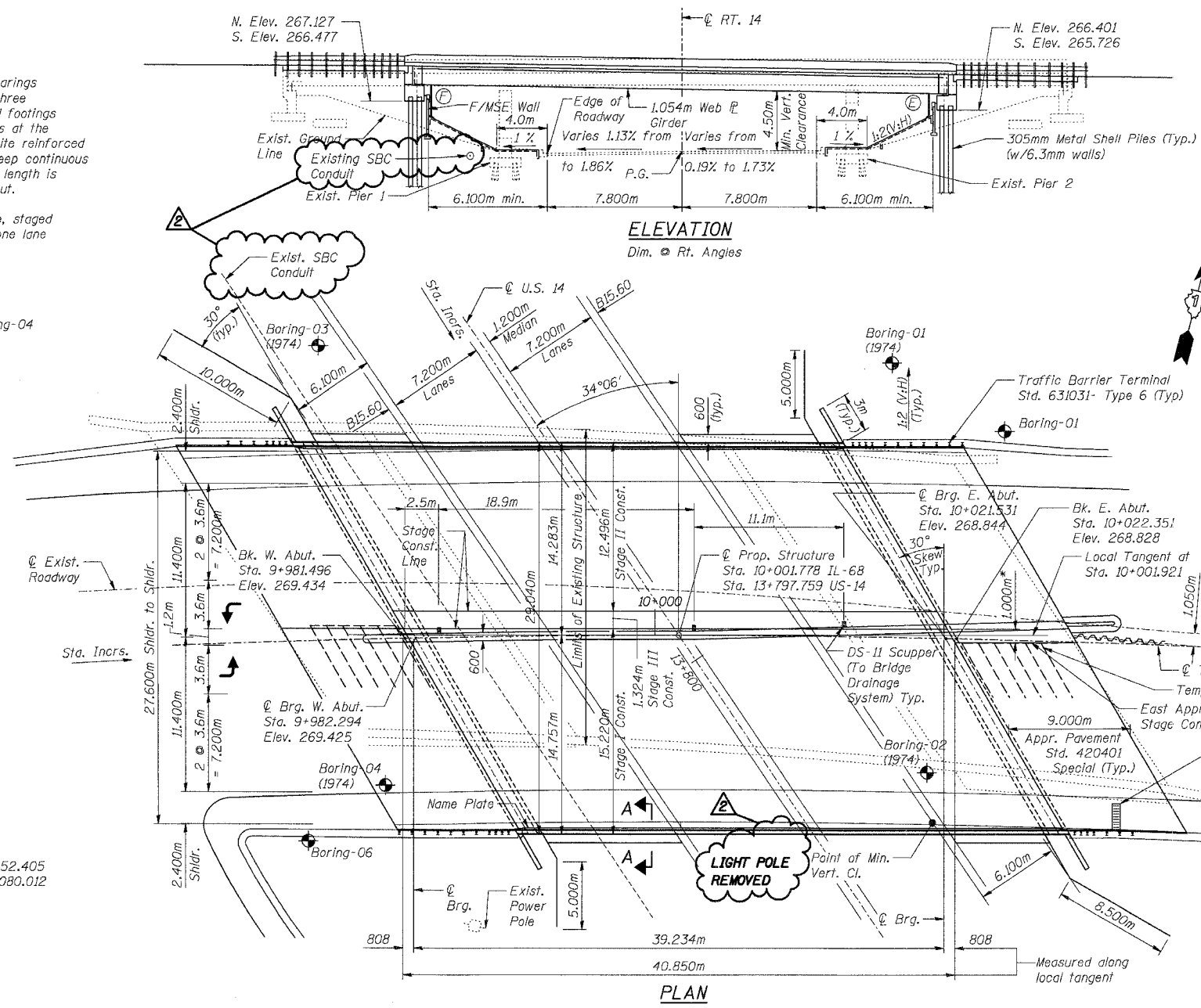
Chiseled 'C' SE corner of East abutment of IL-68 bridge over US 14
Elev. 269.205

EXISTING STRUCTURE

S.N. 016-2410 was built in 1974. The bearings were cleaned and painted in 1992. The three span structure rests on concrete spread footings at the abutments and treated timber piles at the concrete multi-column piers. The composite reinforced concrete deck is supported by 920mm deep continuous steel beams. The back to back abutment length is 62.76m and the deck is 23.16m out to out.

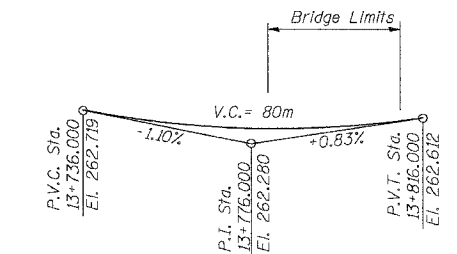
During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.

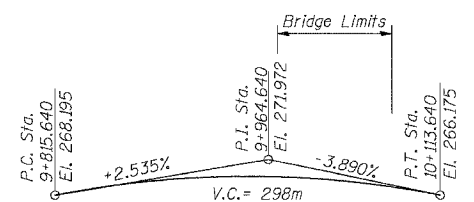


ELEVATION
Dim. @ Rt. Angles

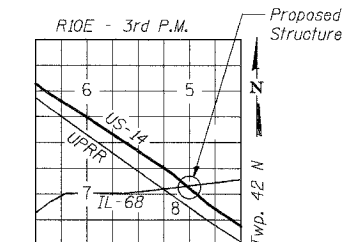
PLAN



PROFILE GRADE LINE
US Route 14



PROFILE GRADE LINE
IL Route 68



LOCATION SKETCH

STATION 10+001.778
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 343 SEC 70HB-R-1
COOK COUNTY
LOADING HS20
STR. NO. 016-2861

NAME PLATE
See Std. 515001

HORIZONTAL CURVE DATA

Curve 68-1
PI Sta. = 9+966.854 E = 7.453m
Δ = 14°54'14" RT. S.E. = 2.4%
R = 875.000m P.C. Sta. = 9+852.405
T = 114.450m P.T. Sta. = 10+080.012
L = 227.607m

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

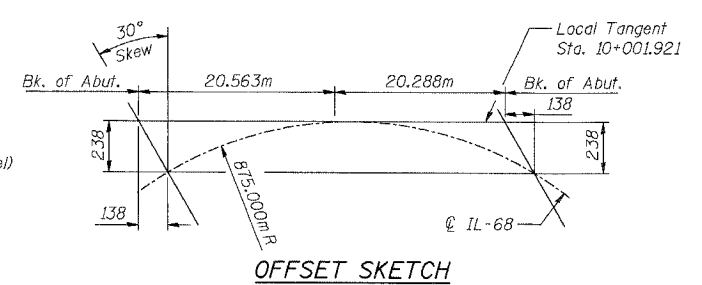
2002 AASHTO Std. Spec, 17th edition

DESIGN STRESSES

NEW CONSTRUCTION
f'_c = 24 MPa (concrete)
f_y = 400 MPa (reinforcement)
f_y = 345 MPa (AASHTO M 270M, Gr. 345 struc. steel)

SEISMIC DATA

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



OFFSET SKETCH

* Offset East Approach Stage Const. Line to avoid interference with existing beams.

NOTES:

- All dimensions in millimeters (mm) except as noted.
- For section A-A, see Sht. S-02 of S-27.

SHT. S-01 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

GENERAL PLAN

DESIGNED: BTO DRAWN: BTO
CHECKED: JAN CHECKED: JAN

DATE: 02/07

Addendum #2 2/15/07



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