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

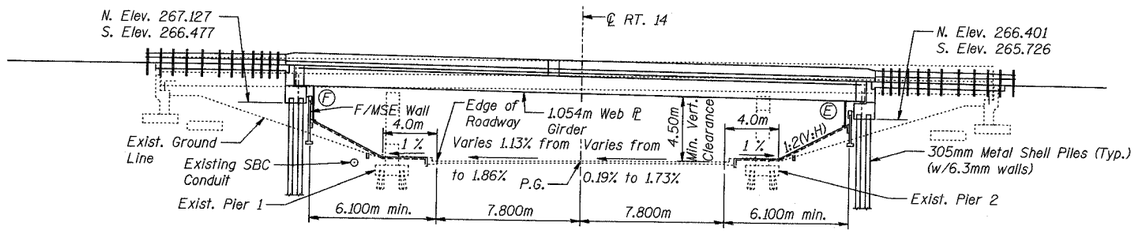
Chiseled '□' SE corner of East abutment of IL-68 bridge over US 14
Elev. 269.205

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.

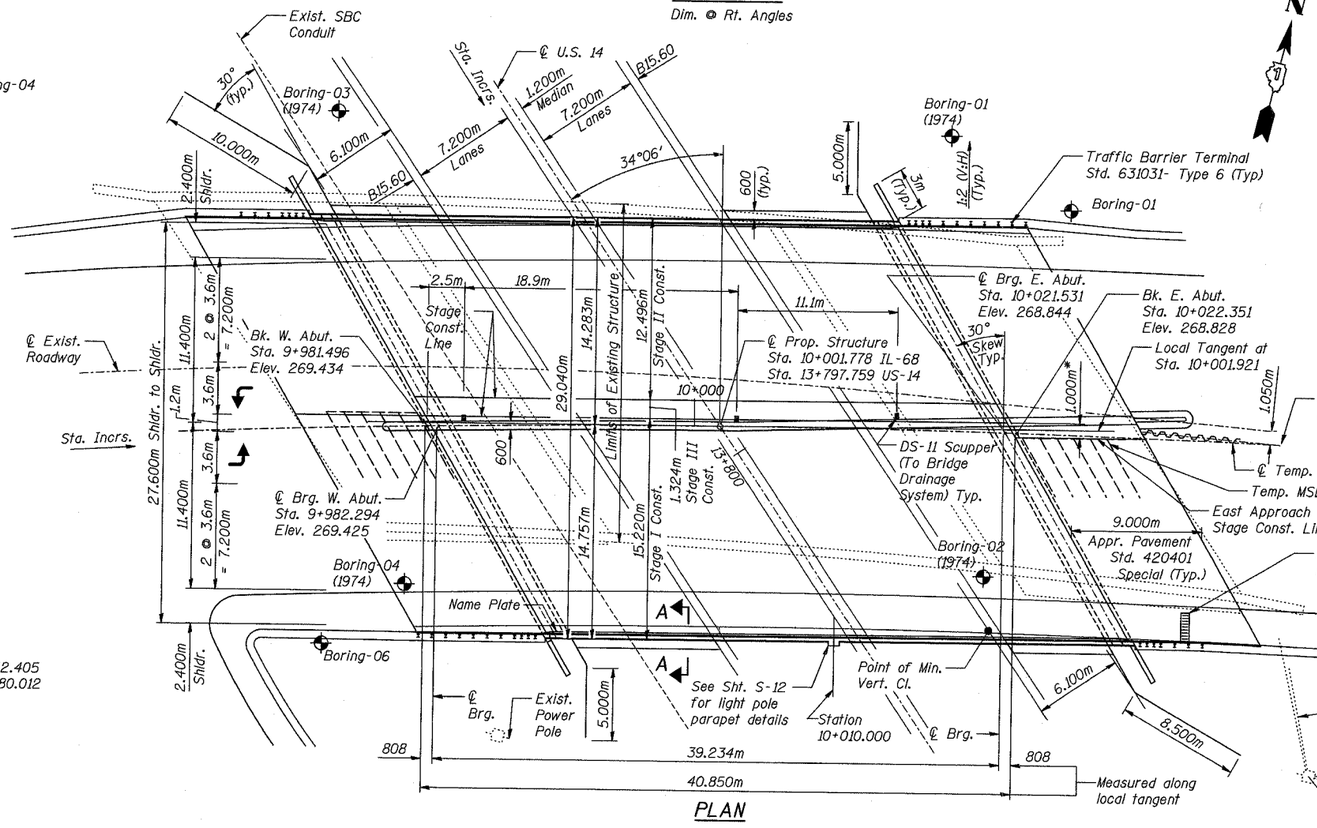
During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.

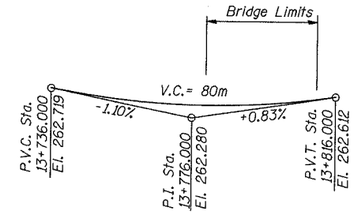


ELEVATION

Dim. @ Rt. Angles

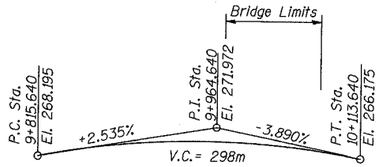


PLAN



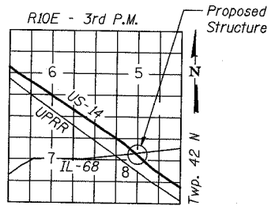
PROFILE GRADE LINE

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
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

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

2002 AASHTO Std. Spec, 17th edition

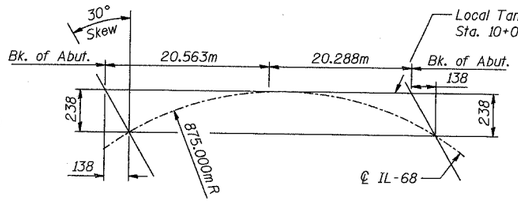
DESIGN STRESSES

NEW CONSTRUCTION

f'c = 24 MPa (concrete)
fy = 400 MPa (reinforcement)
fy = 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

STATE OF ILLINOIS
JOHN A. JAN
81-004960
OAK PARK
LICENSED STRUCTURAL ENGINEER
LICENSE EXPIRES
11/30/08

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

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

NOTES:

1. All dimensions in millimeters (mm) except as noted.
2. 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
DATE: 10/06 CHECKED: JAN CHECKED: JAN

STV Incorporated
Engineers/Architects/Planners/Construction Managers
200 W. Monroe Street, Suite 1650
Chicago, IL 60606-5015
312/553-0655, FAX 312/553-0661