F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2004-1328	COOK	170	143
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCH MARK

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

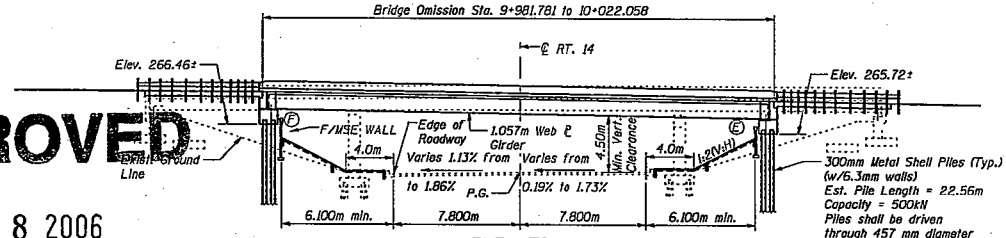
EXISTING STRUCTURE

S.N. 016-2410 was built in 1974. The bearings were cleaned and painted in 1992. The [illegible] span structure rests on concrete s[illegible] at the abutments and treated timber [illegible] 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, stage construction will be utilized to maintain one lane of traffic in each direction.

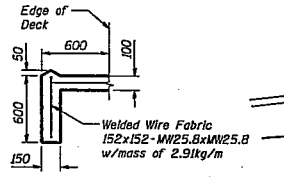
No salvage.

APPROVED
MAY 18 2006
AS A BASIS FOR
PREPARATION OF DETAILED PLANS

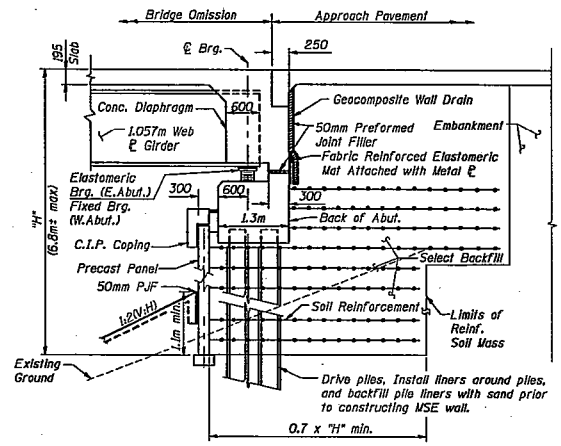


ELEVATION

Dim. ⊙ Rt. Angles

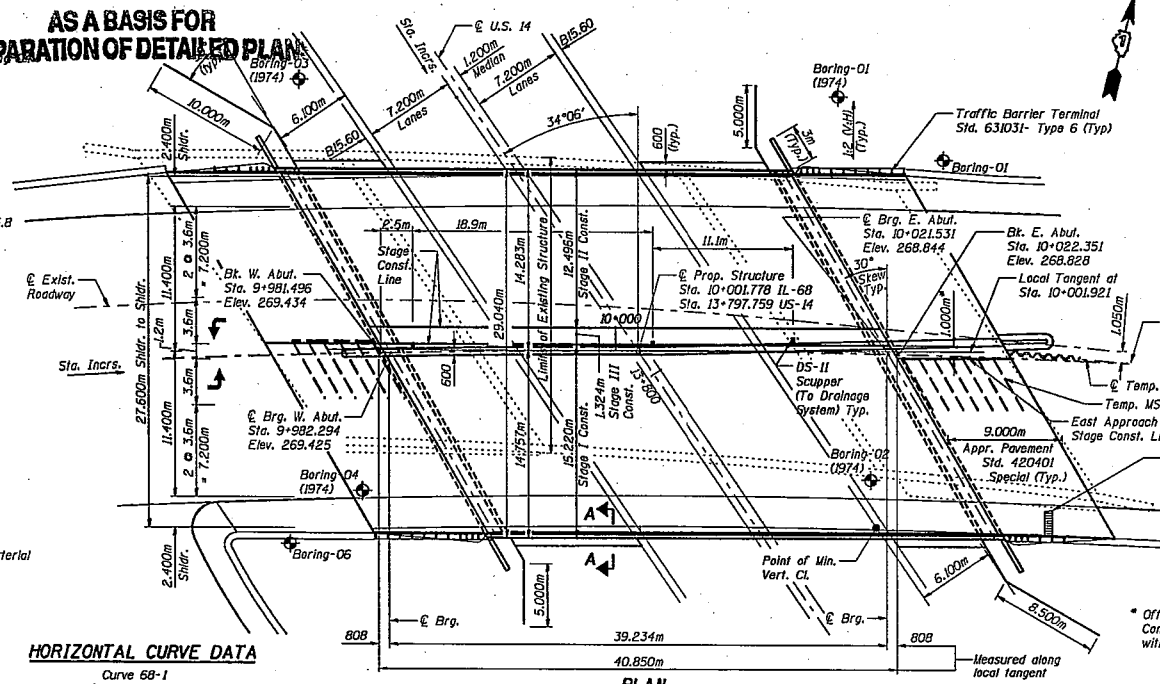


SECTION A-A



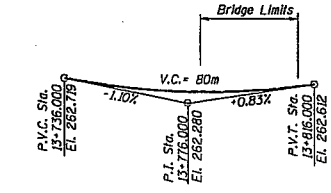
SECTION THRU SEMI-INTEGRAL ABUT.

Dimensions at Right Angles



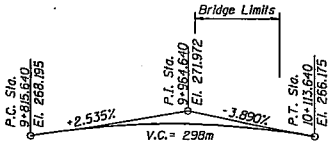
PLAN

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



PROFILE GRADE LINE

US Route 14



PROFILE GRADE LINE

IL Route 68

HIGHWAY CLASSIFICATION

IL. Route 68

Functional Class: Principal Arterial
ADT: 21,600 (2003)
ADT: 24,000 (2030)
ADTT: 1308 (2003)
ADTT: 1440 (2030)
DHV: 2,460 (2030)
Design Speed: 70 km/h
Posted Speed: 45 mph (70 km/h)

US Route 14

Functional Class: Strategic Regional Arterial
ADT: 25,000 (2003)
ADT: 28,000 (2030)
Design Speed: 70 km/h
Posted Speed: 45 mph (70 km/h)

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)

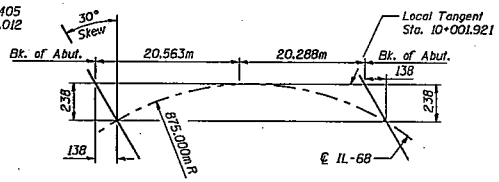
SEISMIC DATA

Seismic Performance Category (SPC)= A
Bedrock Acceleration Coefficient (A)= 0.035g
Site Coefficient (S) = 1.2

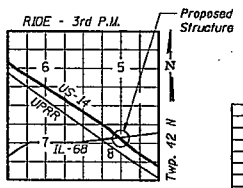
HORIZONTAL CURVE DATA

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



OFFSET SKETCH



LOCATION SKETCH

NOTE:

All dimensions in millimeters (mm) except as noted.

SHT. 1 OF 2

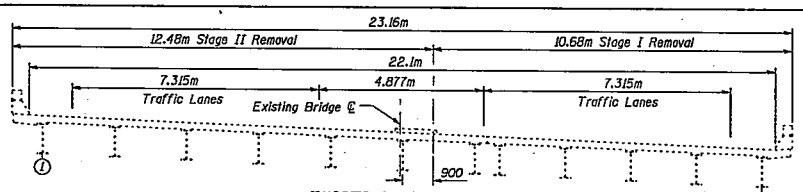
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

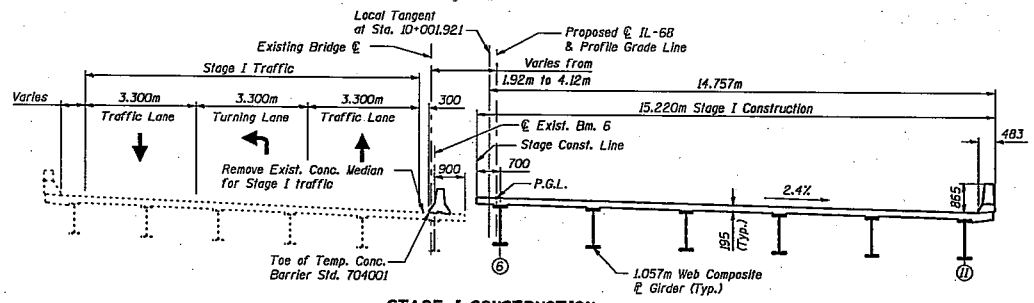
GENERAL PLAN
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 2004-1328
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

DATE: 4/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN

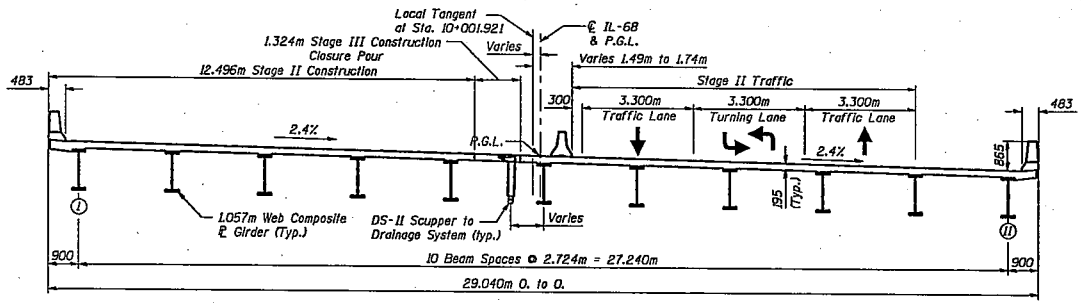
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2004-132B	COOK		
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION
(Looking East)

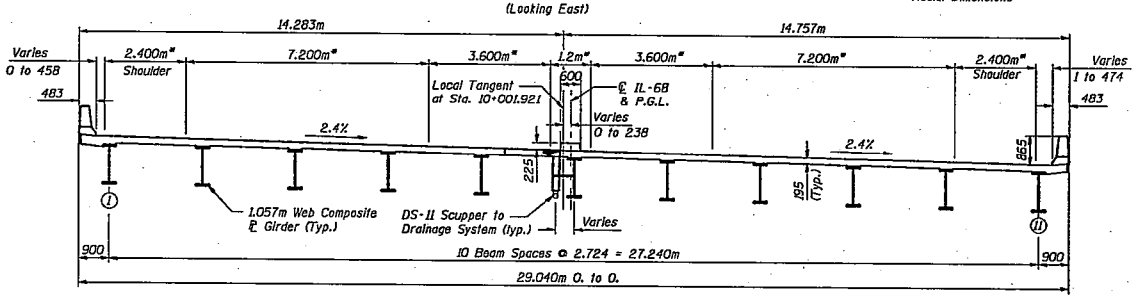


STAGE I CONSTRUCTION
(Looking East)

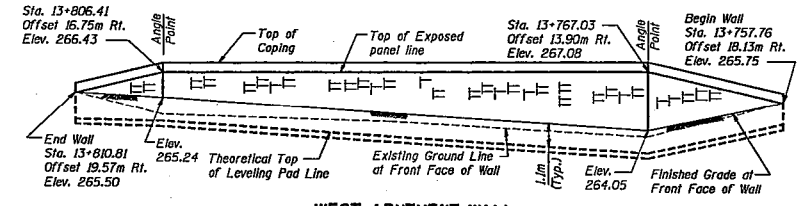


STAGE II & III CONSTRUCTION
(Looking East)

* Radial Dimensions

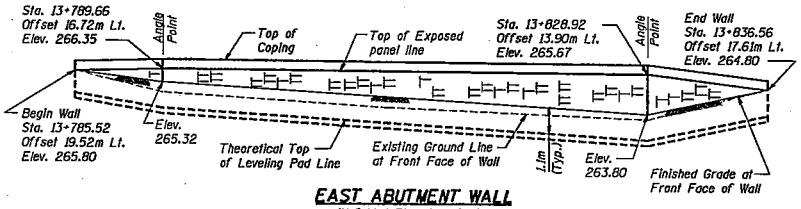


TYPICAL SECTION THRU BRIDGE DECK
(Looking East)

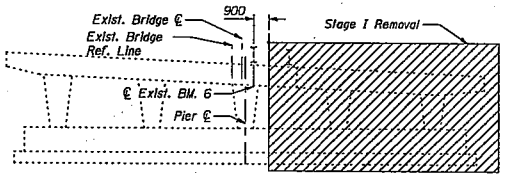


WEST ABUTMENT WALL
(Unfolded Elevation View)

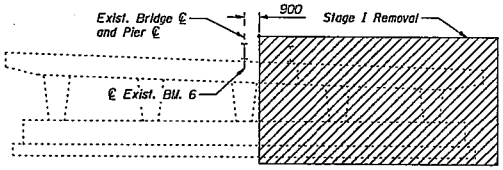
Stationing and Offsets from ℄ US 14.



EAST ABUTMENT WALL
(Unfolded Elevation View)



EXISTING PIER 1 STAGE REMOVAL
(Looking East)



EXISTING PIER 2 STAGE REMOVAL
(Looking East)

SHT. 2 OF 2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 2004-132B
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

DATE: 4/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN