STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	142-R	ROCK ISLAND	2	1
STA. 237+68.32		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

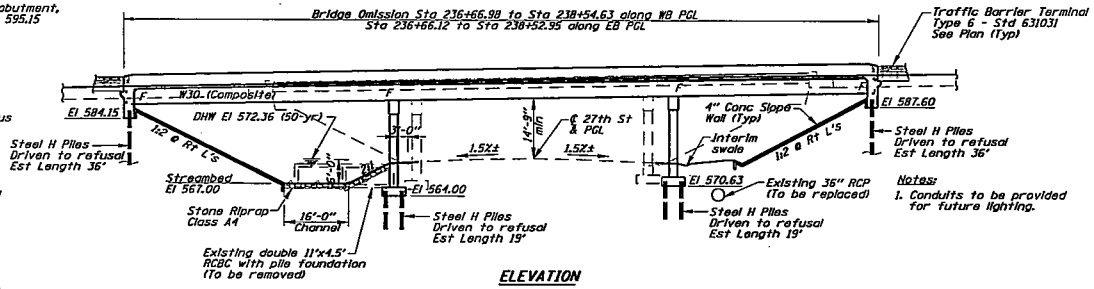
BENCH MARK:

Iron pin 350'± east of existing east abutment, 7'± Lt of ℄ of median, Sta 241+90, El 595.15

EXISTING STRUCTURES:

E.B. Structure Number 081-0096 out to out varies 57'-3" to 54'-1" W.B. Structure Number 081-0095 out to out varies 51'-2" to 61'-3". Both structures are 3 span continuous steel multi-beam bridges 142'-5" Bk to Bk of abuts on multi column piers and pile bent spill-thru abutments. Both Structures were constructed in 1970 as FAP RTE 595 Section 3HB. In 1986 the bridge decks were raised and reconstructed and the E.B. Structure was widened. There is also a double 11'x4.5' RCBC carring ditch flow through the west embankment.

Structures to be removed & replaced using cross-overs. No salvage.



Notes:
1. Conduits to be provided for future lighting.

ELEVATION

HIGHWAY CLASSIFICATION

FAP RTE 595 - IL RTE 5
ADT: 35,600 (2006), 48,000 (2026)
DHV: 3,560 (2006), 4,800 (2026)
ADTT: 3.5%
Functional Class: Other Principal Arterial
Design Speed: 60 mph
Posted Speed: 55 mph

27th St
ADT: 14,000 (2006)
Functional Class: Local Road
Posted Speed: 35 mph

DESIGN STRESSES

f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M-270, Grade 50 Structural Steel)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

HS 20-44 LOADING

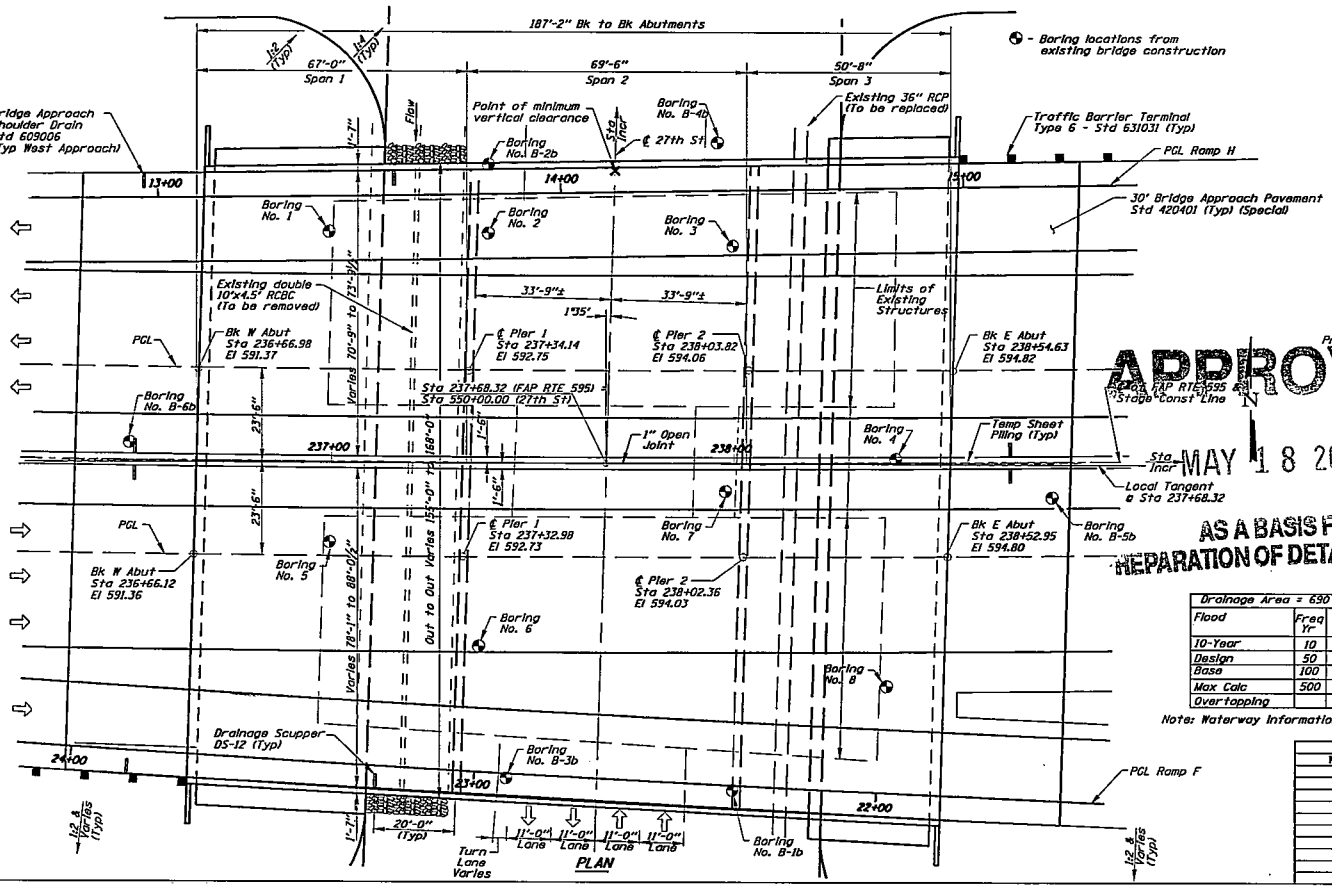
Allow 50 lb/ft² for Future Wearing Surface.

SEISMIC DATA

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

CURVE DATA (FAP 595)

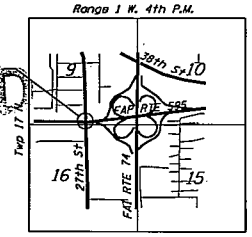
P.I. STA. 237+68.39
D = 0°32'00"
R = 10,743.00'
L = 2,178.43'
T = 1,093.47'
E = 55.51'
P.C. STA. 226+74.92
P.T. STA. 248+54.35



PLAN

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

Range 1 W. 4th P.M.



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 690 AC — Low Grade El 574.00 — @ Sta 551+06

Flood	Freq Yr	Q, ft³/s	Opening sq ft² Exist	Opening sq ft² Prop	Not HWE	Head - ft Exist	Head - ft Prop	Headwater El Exist	Headwater El Prop
10-Year	10	501	87.6	141.3	571.21	0.00	0.00	571.04	571.20
Design	50	990	NA	284.4	572.36	NA	0.41	NA	572.77
Base	100	1278	NA	337.5	572.40	NA	0.80	NA	573.20
Max Calc	500	2173	NA	NA	572.42	NA	NA	NA	NA
Overtopping		1385	99.0	455.0	574.00	0.00	0.00	574.00	574.00

Note: Waterway Information is for the exist 11'x4.5' dbl box culvert vs the prop open ditch.

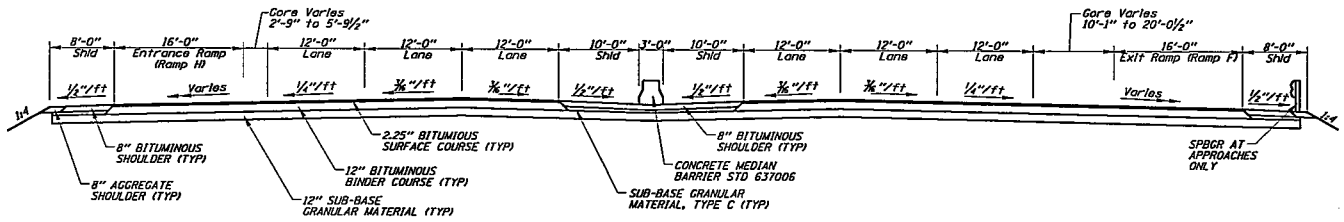
REVISIONS NAME	DATE

GENERAL PLAN & ELEVATION
IL ROUTE 5 (FAP RTE 595) OVER 27th ST
SECTION 142-R
ROCK ISLAND COUNTY STA 237+68.32
SN 081-0174

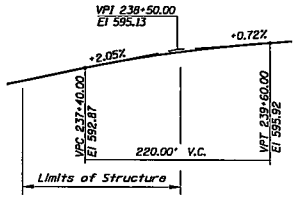
DATE: 02-11-05 DRAWN BY: UJ CHECKED BY: JLG

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

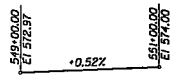
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	142-R	ROCK ISLAND	2	2
STA. 237+68.32		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



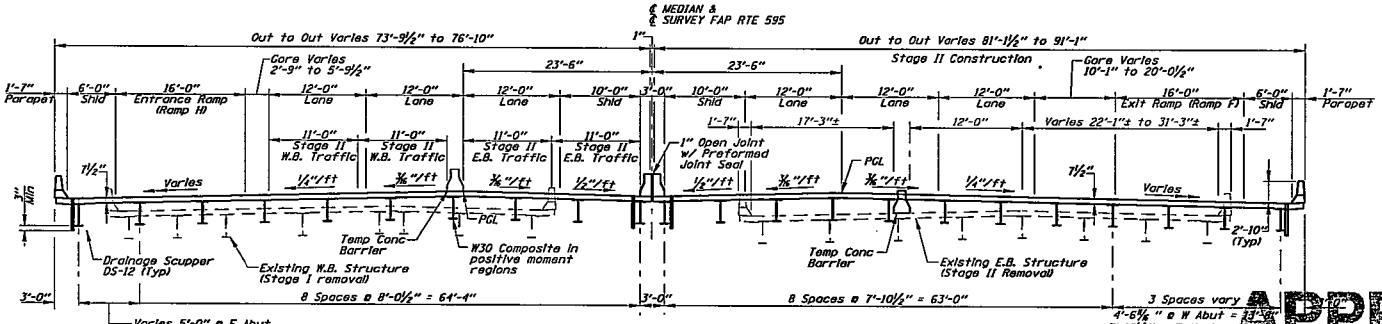
APPROACH ROADWAY CROSS SECTION



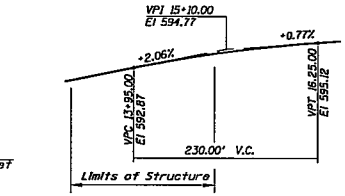
PROPOSED PROFILE GRADE FAP RTE 595
(Applies 23'-6" from ℄ along edge of thru lane)



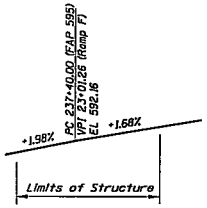
PROFILE GRADE 27th ST
(Applies along ℄ of 27th St)



STAGE II CROSS SECTION
(Looking East)

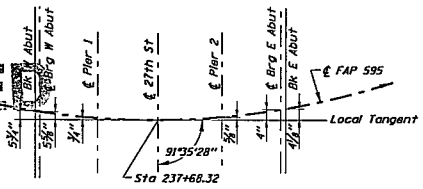


PROPOSED PROFILE GRADE RAMP H
(Applies at outside edge of pvmt)

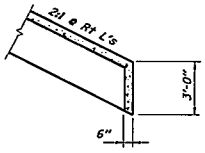


PROPOSED PROFILE GRADE RAMP F
(Applies at outside edge of pvmt)

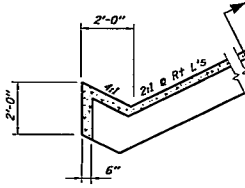
APPROVED
MAY 18 2006
AS A BASIS FOR PREPARATION OF DETAILED PLANS



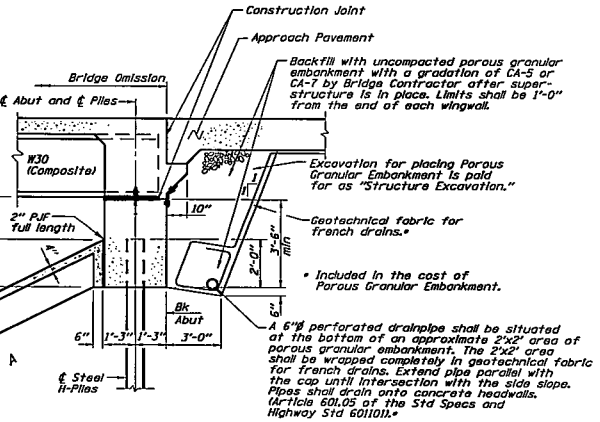
OFFSET SKETCH



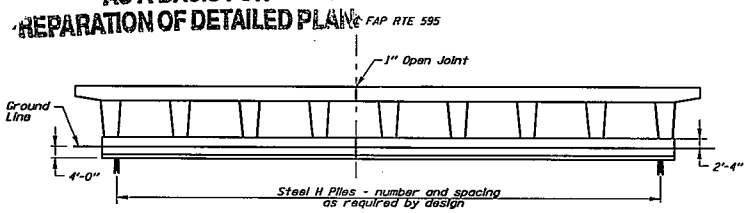
WEST SLOPEWALL



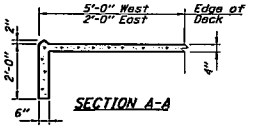
EAST SLOPEWALL



SECTION THRU INTEGRAL ABUTMENT AND SLOPEWALL



TYPICAL PIER SKETCH
(Looking East)



SECTION A-A

REVISIONS	
NAME	DATE

DETAILS
IL ROUTE 5 (FAP RTE 595) OVER 27th ST
SECTION 142-R
ROCK ISLAND COUNTY STA 237+68.32
SN 081-0174

DATE: 02-16-05 DRAWN BY: UJ CHECKED BY: JLC