APPROVED

Conditionally Approved

JUL 23 2002

~~AS A BASIS FOR PREPARATION OF DETAILED PLANS~~

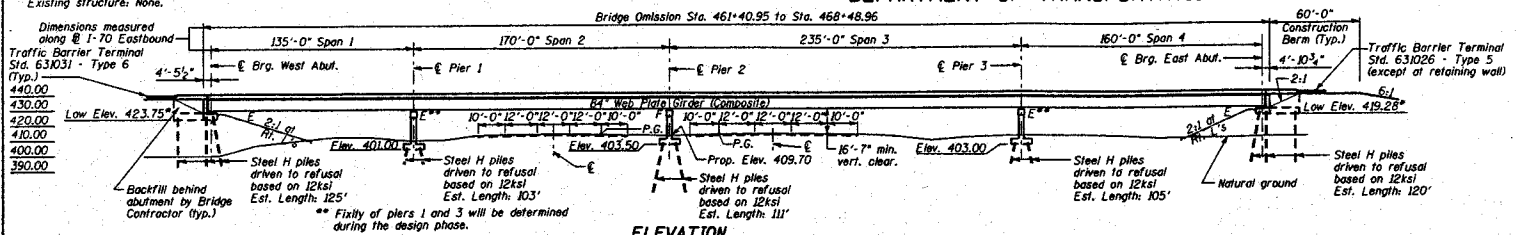
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte. 999	83-6HB	St. Clair		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1 OF 2 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

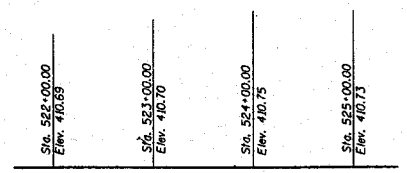
Bench Mark: Bench Mark: #105 - Cut "+" on top of SE bolt for street light number F1 at start of ramp for exit 4B. Sta. 519+19.7, 86' Lt. Exist. I-55. Elev.-407.09

Existing structure: None.



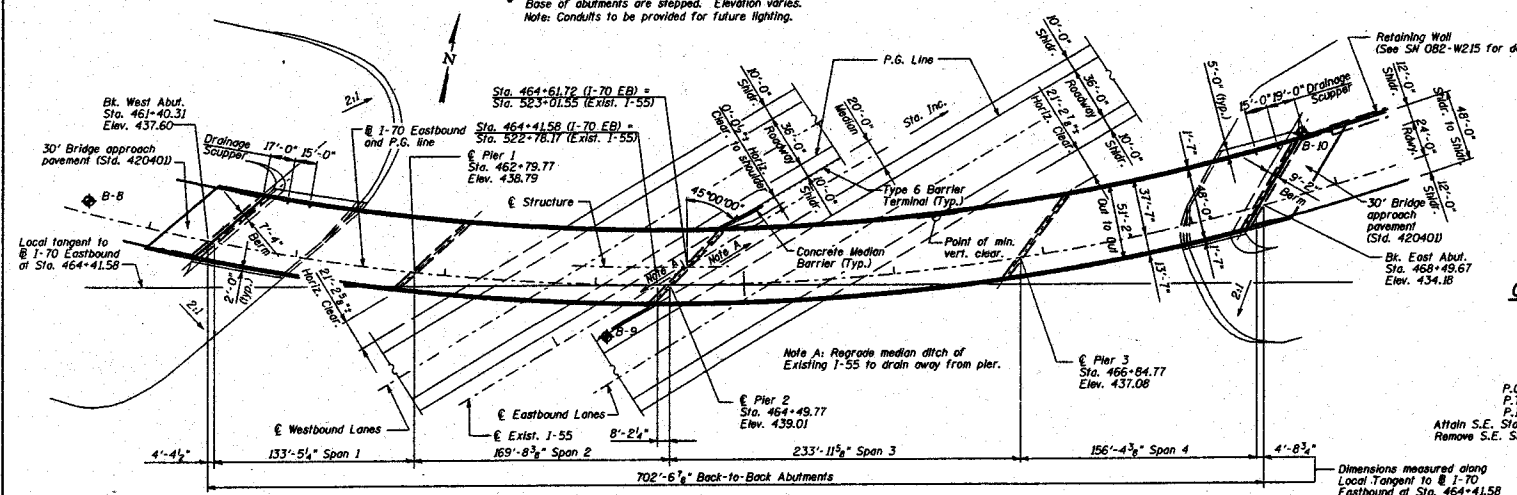
ELEVATION

* Base of abutments are stepped. Elevation varies.
Note: Conduits to be provided for future lighting.



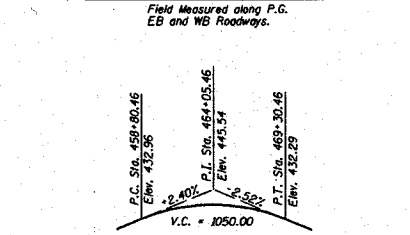
PROFILE GRADE EXIST. I-55

Field Measured along P.G. EB and WB Roadways.



PLAN

Notes: Roadway tapers off of the bridge.
The width between the guardrails shall be the width between the bridge rails or parapets which will require approach shoulder widening.

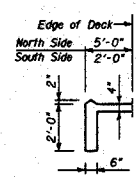


PROFILE GRADE I-70 EASTBOUND

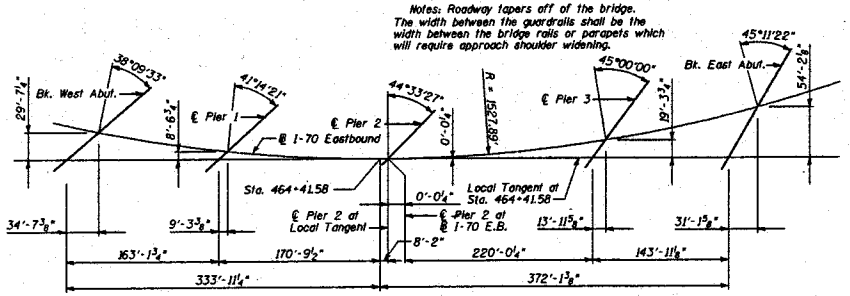
Along ℄ Roadway

CURVE DATA

Δ = 95°-53'-59"
D = 3°-45'-00"
T = 1,693.91
L = 2,557.33
E = 753.29
R = 1,527.09
S.E. = 0.06'/'
P.C. = Sta. 449+76.58
P.T. = Sta. 475+33.91
P.I. = Sta. 466+70.49
Attain S.E. Sta. 448+00.58 to Sta. 450+42.58
Remove S.E. Sta. 474+67.91 to Sta. 477+09.91



SECTION A-A



OFFSET SKETCH

HIGHWAY CLASSIFICATION

I-70 Eastbound	Existing I-55	
Class: Trunk	Class: Interstate	
ADT: 7,310 (2020)	ADT: 47,000 (2000)	78,190 (2020)
ADTT: 366 (2020)	ADTT: 9,729 (2000)	16,185 (2020)
DHV: 1,340 (2020)	DHV: 4,700 (2000)	7,800 (2020)
Design Speed: 60 mph	Design Speed: 60 mph	
Posted Speed: 55 mph	Posted Speed: 55 mph	

LOADING HS20-44 & ALTERNATE

Future wearing surface = 50 psf.

DESIGN SPECIFICATIONS

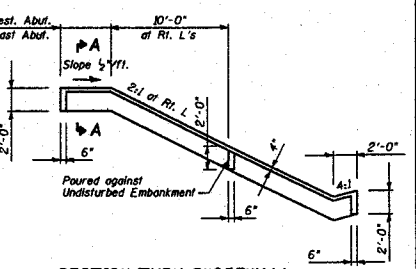
1996 AASHTO with 1997 thru 2000 Interims

SEISMIC DATA

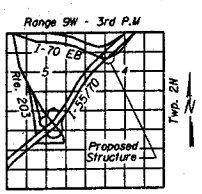
Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.12g
Site Coefficient (S) = 1.5

DESIGN STRESSES

NEW FIELD UNITS
f_c' = 3,500 psi
f_y = 60,000 psi (Reinf.)
f_y = 50,000 psi (Struct. Steel) (M270, Gr. 50)



SECTION THRU SLOPEWALL



LOCATION SKETCH

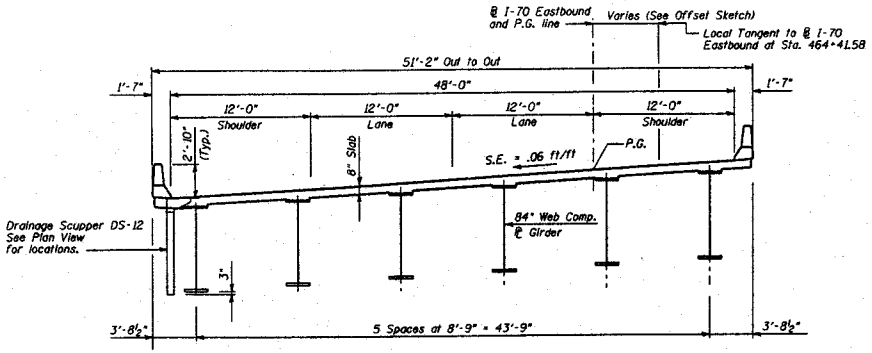
DESIGNED	MAB
CHECKED	DLS
DRAWN	MAB
CHECKED	DLS

GENERAL PLAN
I-70 EASTBOUND OVER EXISTING I-55
FAP ROUTE 999 SEC. 83-6HB
ST. CLAIR COUNTY
STATION 464+41.58
STRUCTURE NO. 082-0364

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

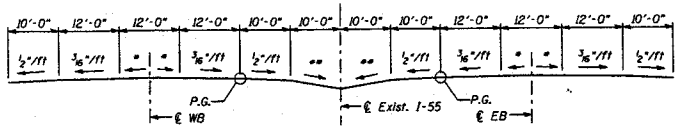
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte. 999	83-6HB	St. Clair		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
2 SHEETS



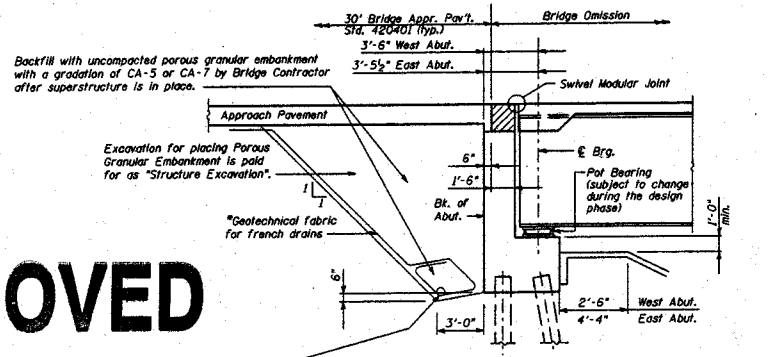
CROSS SECTION

Note: Horizontal dimensions shown are radial.
(Looking Upstation)



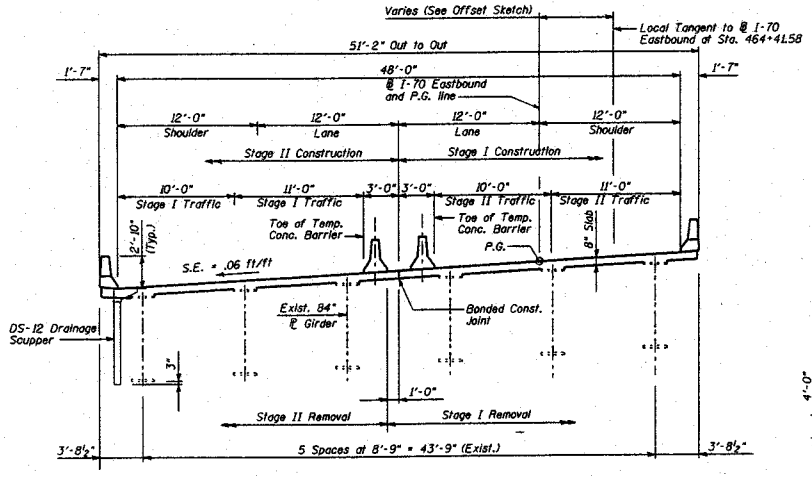
SECTION EXISTING I-55

* Varies ½"/ft min. to 3/16"/ft max.
** Varies 6:1 to 20:1



SECTION THRU ABUTMENTS

(Dimensions at Rt. L's)
* Included in the cost of "Porous Granular Embankment".



CROSS SECTION - (FUTURE STAGING FOR REDECKING)

Note: Horizontal dimensions shown are radial.
(Looking Upstation)

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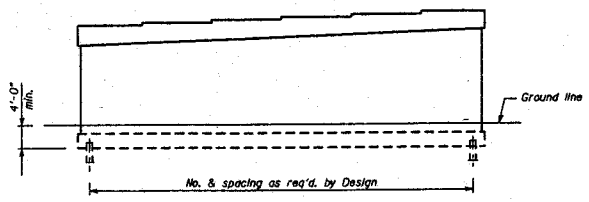
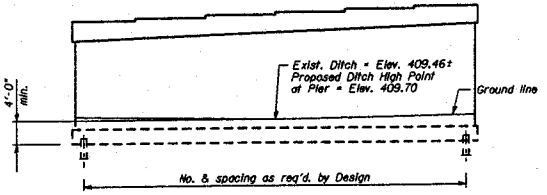


PIER SKETCH - P1 and P3

(Looking Upstation)



PIER SKETCH - P2

(Looking Upstation)

DESIGNED	MAB
CHECKED	DLS
DRAWN	MAB
CHECKED	DLS

SECTIONS & DETAILS
I-70 EASTBOUND OVER EXISTING I-55
FAP ROUTE 999 SEC. 83-6HB
ST. CLAIR COUNTY
STATION 464+41.58
STRUCTURE NO. 082-0364