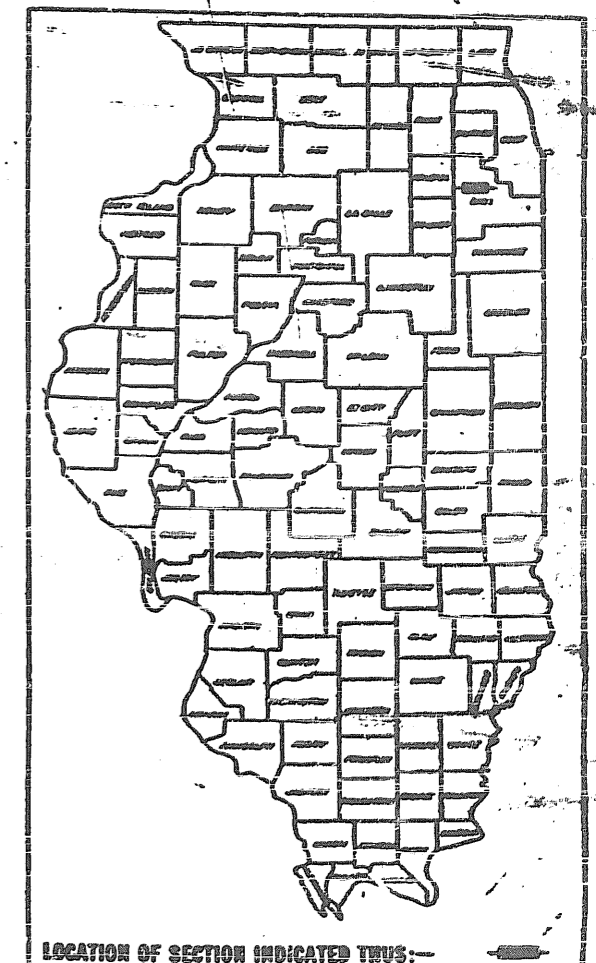


STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
 FEDERAL AID INTERSTATE HIGHWAY**

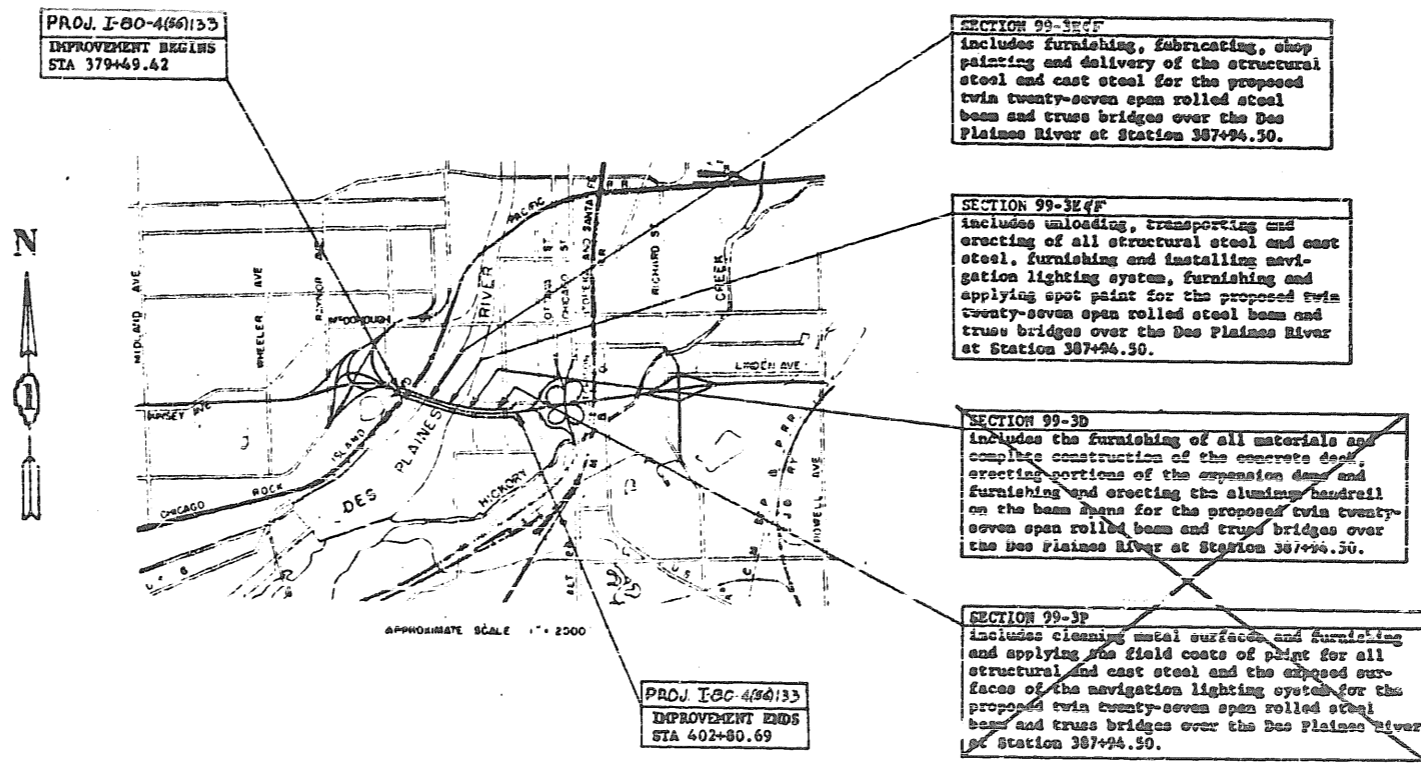
SCALES { PLAN 1 INCH = 50 FT.
 PROFILE HOR. 1 INCH = 50 FT.
 PROFILE VERT. 1 INCH = 5 FT.
 CROSS-SECTIONS 1 INCH = 1 FT.

F.A.I. ROUTE 80 SECTION 99-3 F&E
 PROJECT I-80-4(56)133
 WILL COUNTY

FEDERAL AID ROUTE NO.	SEC.	TOTAL LENGTH	DATE
I-80	99-3	5.8	
TOTAL PROJECT LENGTH 5.8			
DATE 11-15-52			



NOTE: FOR INDEX OF SHEETS
 SEE SHEET NO. 3



APPROVED
 FOR STATE LOCAL AGENCY COPY
W. B. ...
 Director of Bridge and Structures

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS
 AUGUST 16 1952
R. H. ...
 November 15 1952
Bill ...
 November 15 1952
...
 November 15 1952
...

PLANS PREPARED AND RECOMMENDED BY
BLAUVELT ENGINEERING COMPANY
 CONSULTING ENGINEERS
 CRYSTAL LAKE, ILL. - NEW YORK, N.Y. - WASHINGTON, D.C.

DEPARTMENT OF COMMERCE
 OFFICE OF PUBLIC WORKS
 APPROVED

 CHIEF ENGINEER DATE

PROJECT NET LENGTH 2,331.27 Ft. = 0.442 Miles

JOSEPH A. WALSH, JR.
 STRUCTURAL ENGR. 001-2206

Job No. 22758

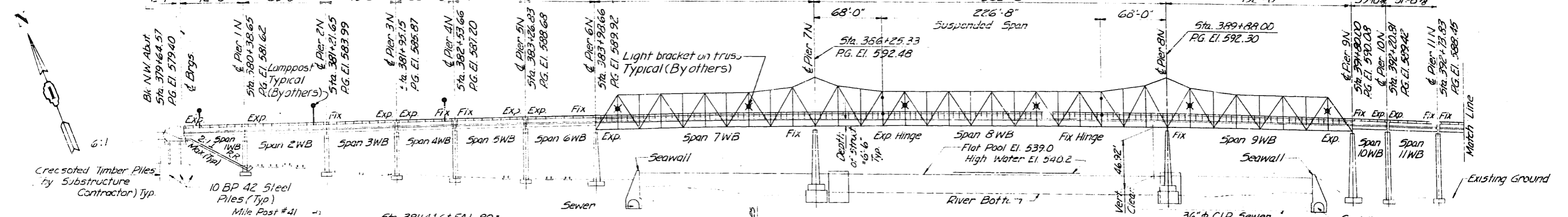
Bench Mark No 546A: Brass station marker on West Seawall, Illinois Waterway Sta. 52+69.34 Elev marked 542.61

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

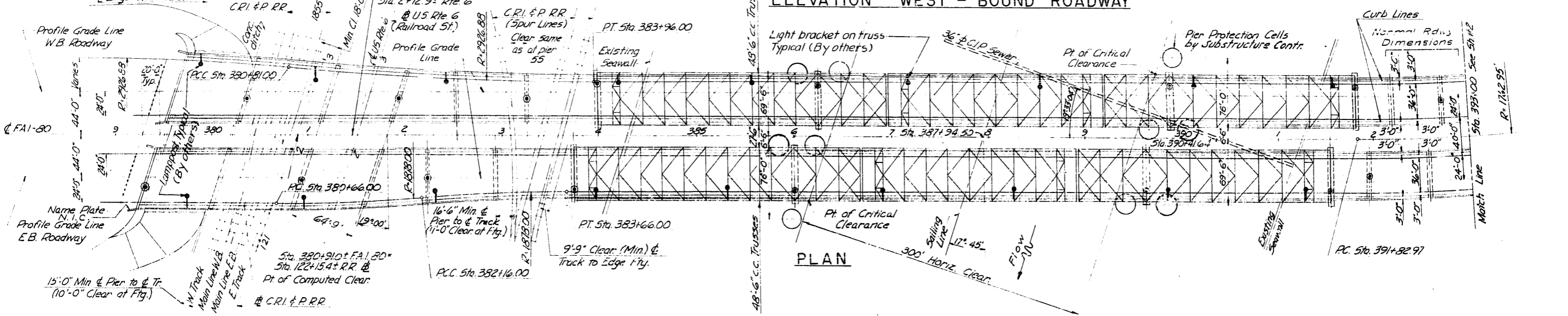
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 80-99-30		WILL	58	10
FED. ROAD DIST. NO. 7		ILLINOIS	11-80-4(97)133	10
99-30			62	10

70 SHEETS

Horizontal Dimensions measured along P.G.L.

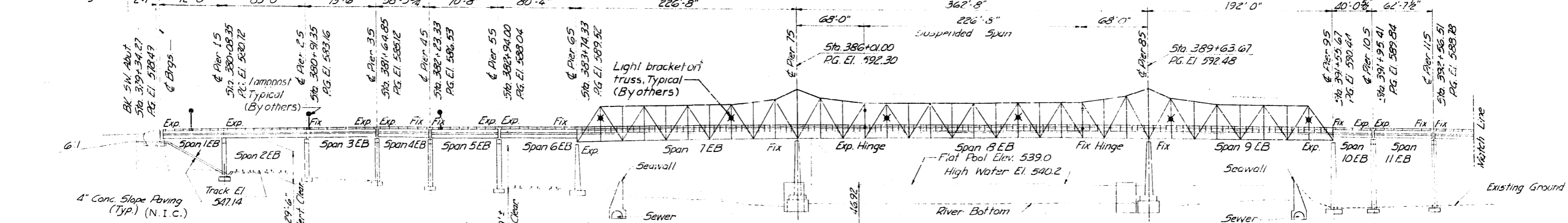


ELEVATION WEST - BOUND ROADWAY



PLAN

Horizontal Dimensions measured along P.G.L.



ELEVATION EAST - BOUND ROADWAY

DESIGNED	H.E.M.
CHECKED	J.T.L.
DRAWN	G.P. R.D.F.
CHECKED	H.A.1. E.L.U.

Note:
West Abutments and Piers 1 3/4 & 2 3/4 are parallel to Piers 3 3/4
Piers 15 3/4 & 16 3/4 are parallel to & River St.
Piers 23 3/4, 24 3/4, 25 3/4 & 26 3/4 and East Abutments are parallel to & River St.
All other Piers are normal to & FAI-80
⊙ Denotes Boring

Note: Sheet numbers referred to in all cross references on the structural drawings are the numbers outside the Federal Aid block in the upper right hand corner of each sheet.

GENERAL PLAN & ELEVATION - I
TWIN BRIDGES OVER DES PLAINES RIVER
FAI. - 80 STA. 367+94.50
FAI. ROUTE 80
SECTION 99-30-EFF-P
SCALE 1" = 50'
DATE DEC. 18, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CHICAGO, ILL.

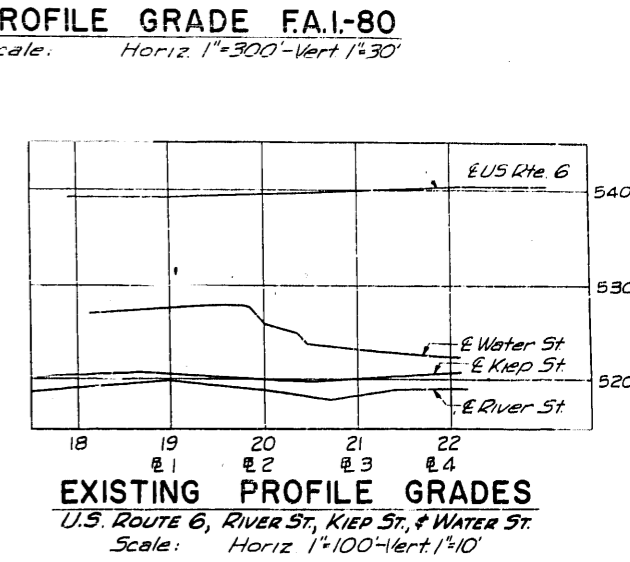
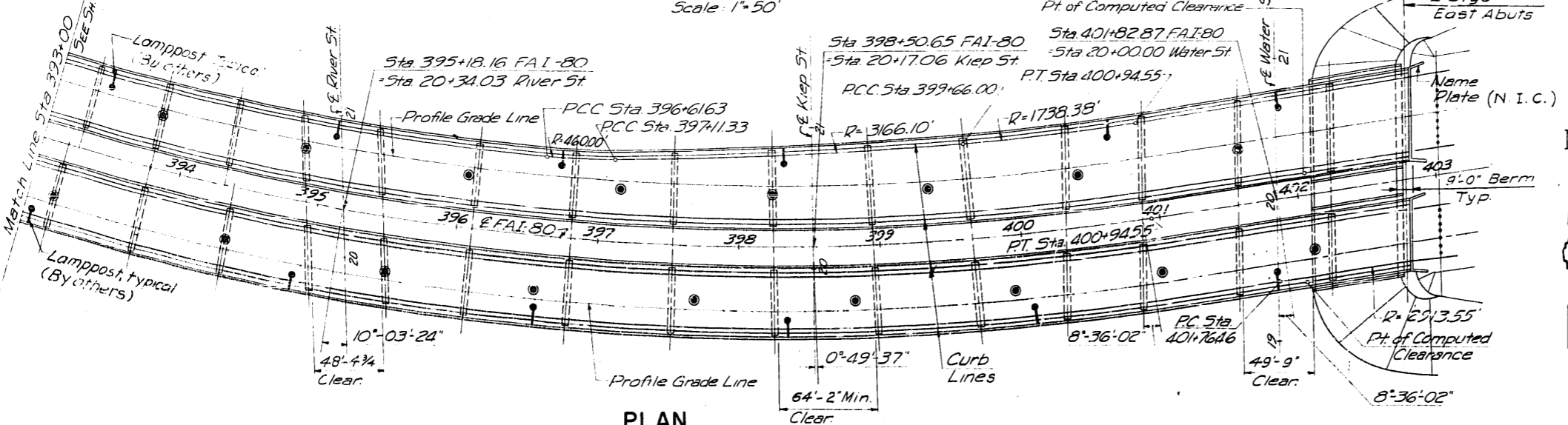
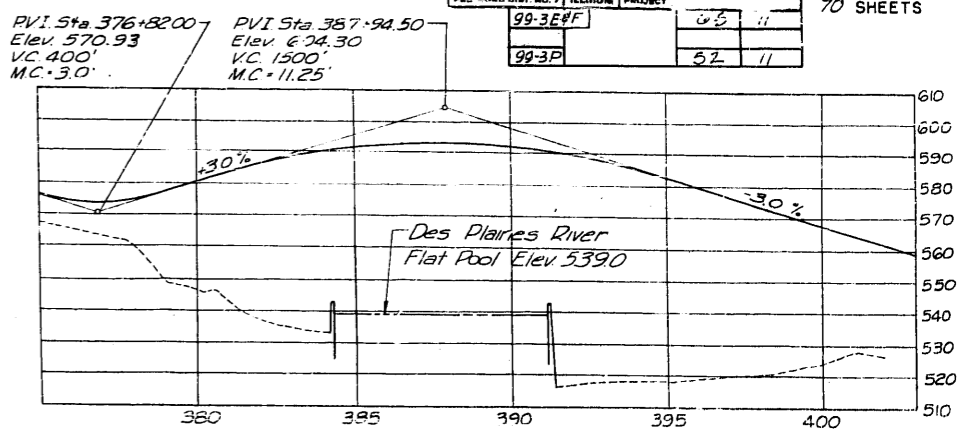
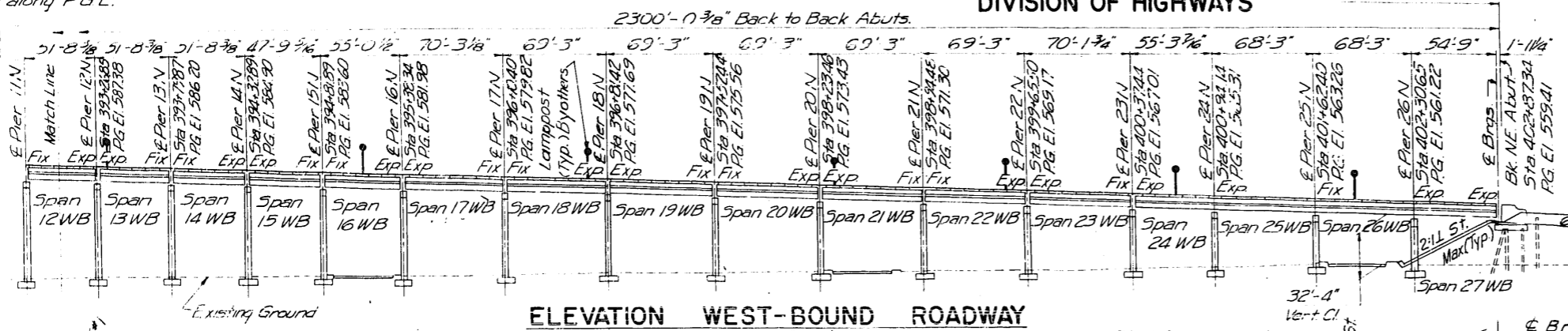
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	REC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	11
PROJECT				
99-3EFF				
SHEET NO.				
52				

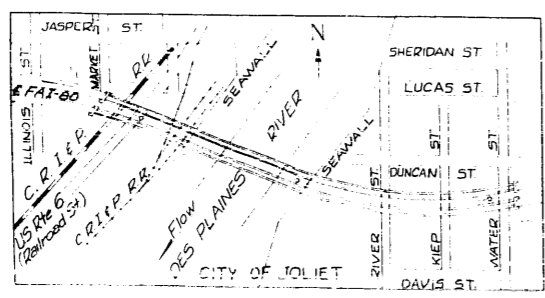
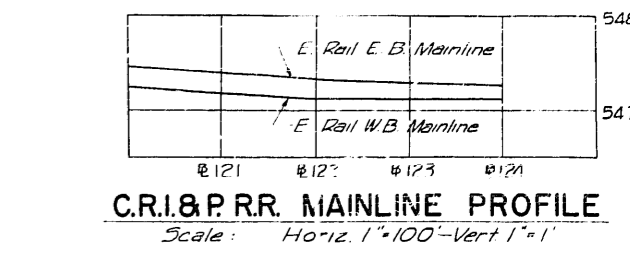
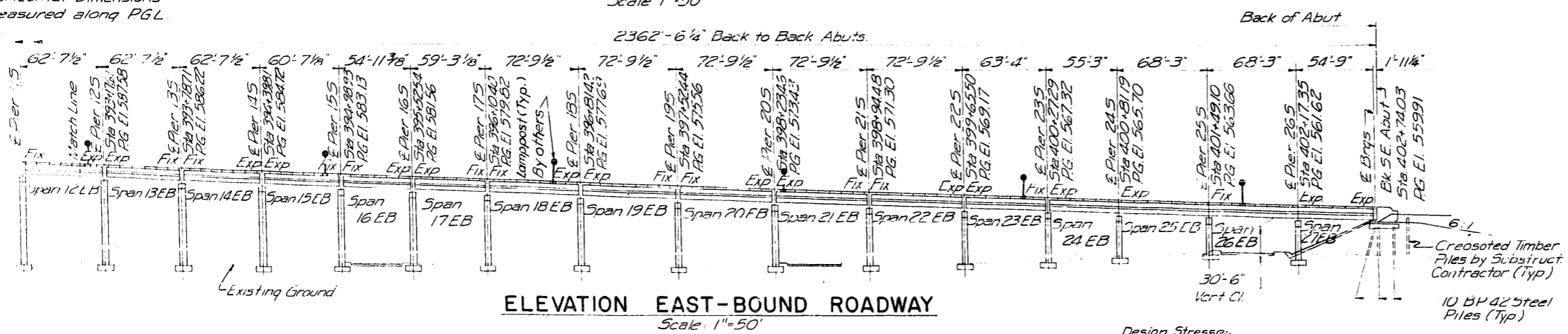
SHEET NO. 2 OF 70 SHEETS

Horizontal Dimensions measured along P.G.L.

Bench Mark "52A - North bolt on fire hydrant, southwest corner of Water Street & Duncan Street. Elev. 525.075



Horizontal Dimensions measured along P.G.L.



Design Stresses
Reinforced Concrete
fc = 3500 psi
fc = 1400 psi
fs = 20,000 psi
n = 10

Structural Steel
Axial Tension 18,000
Axial Compression 15,000 - 1/4"
AASHTO - 1961

Carbon
27,000
1.42

Low-Alloy
22,000 - 0.56"
1.47

Design Loading
H20-516-44 & Alternate

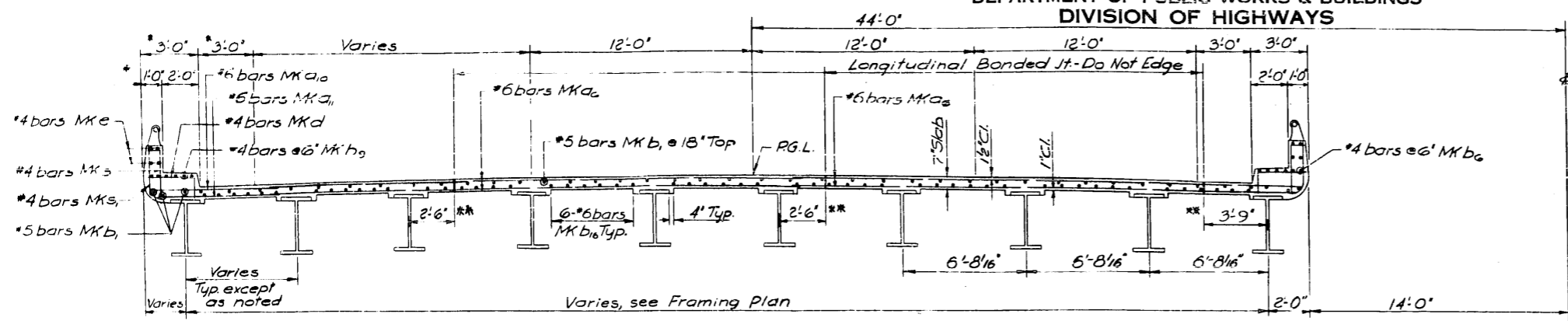
DESIGNED HEM
CHECKED JTL
CHECKED HEM RDF

GENERAL PLAN & ELEVATION-2
TWIN BRIDGES OVER DES PLAINES RIVER

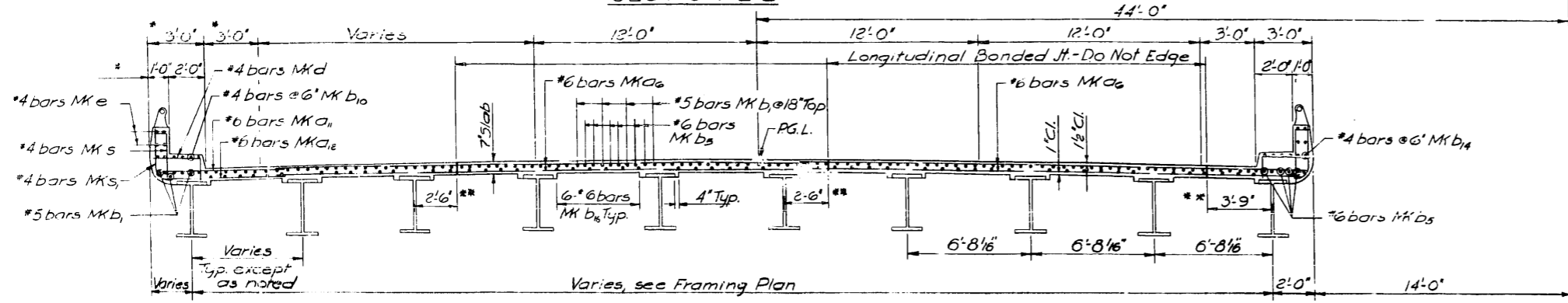
FAI-80 STA. 387+94.50
PROJECT
SECTION 99-3D-EFF-P WILL COUNTY
SCALE As Noted DATE Dec 28, 1900
CLAUVELT ENGINEERS CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

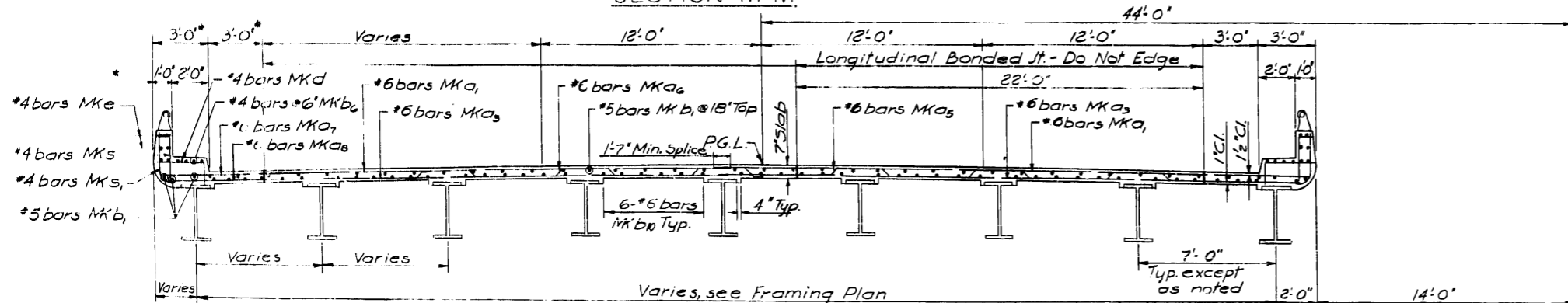
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NAME
FAI-80	99-30	WILL	58	14	70 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	65	12	
	99-3P		52	12	



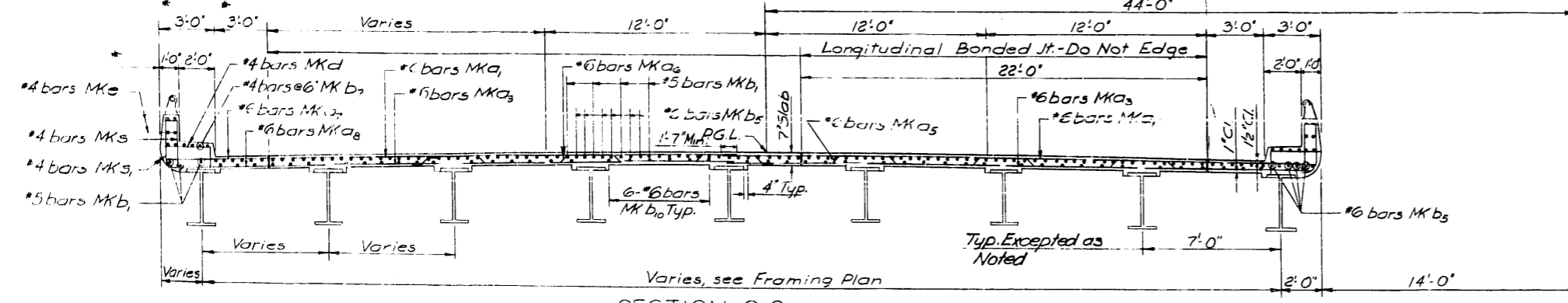
SECTION L-L



SECTION M-M



SECTION N-N



SECTION Q-Q

NOTE:
For Curb & Drain details see sh. 14
For Bars MK e, see sh. 28, 29 & 30
Dimensions are normal to F.A.I.-80
except as noted.
For Superelevation Data, see sh 13
For parapet details at lamp posts, see Sh 3C.

WEST APPROACH SPANS
CROSS-SECTIONS - I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 34.50

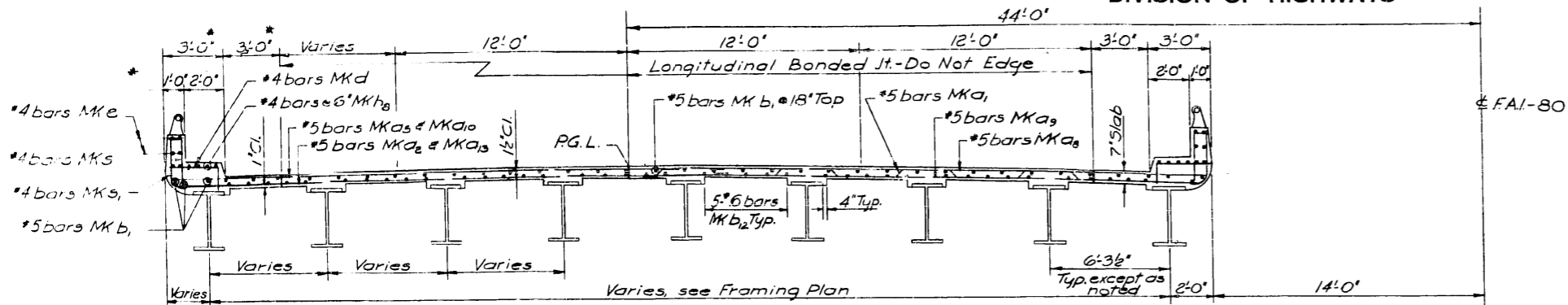
DESIGNED	
CHECKED	
DRAWN	M.M.
CHECKED	J.P.S.

* Dimension normal to Curb line
** Dimension \pm Stringer to Long. Bonded Jt.
Measured Normal to \pm Stringer

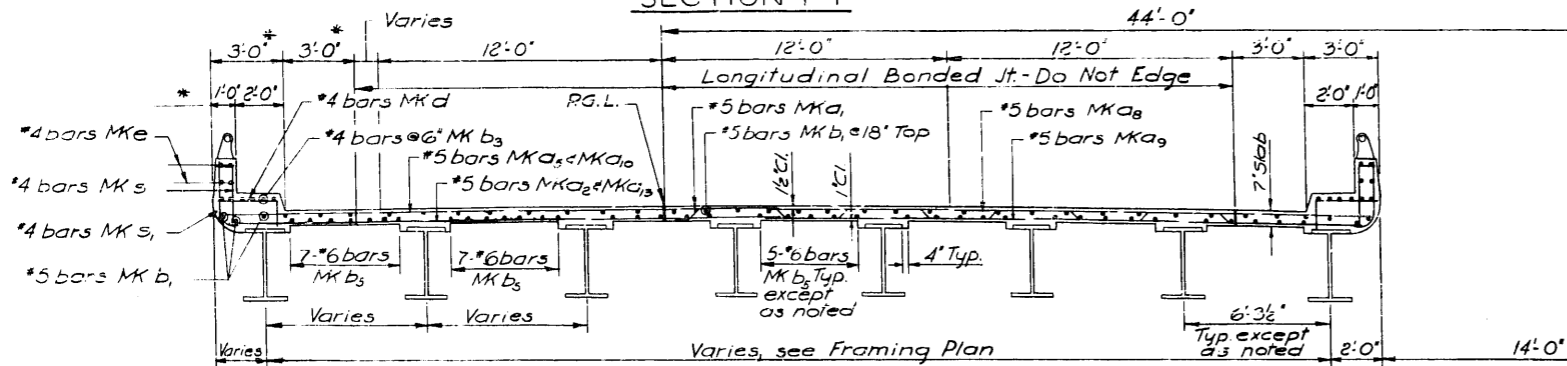
FAI ROUTE 80
SECTION 99-30-E&F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

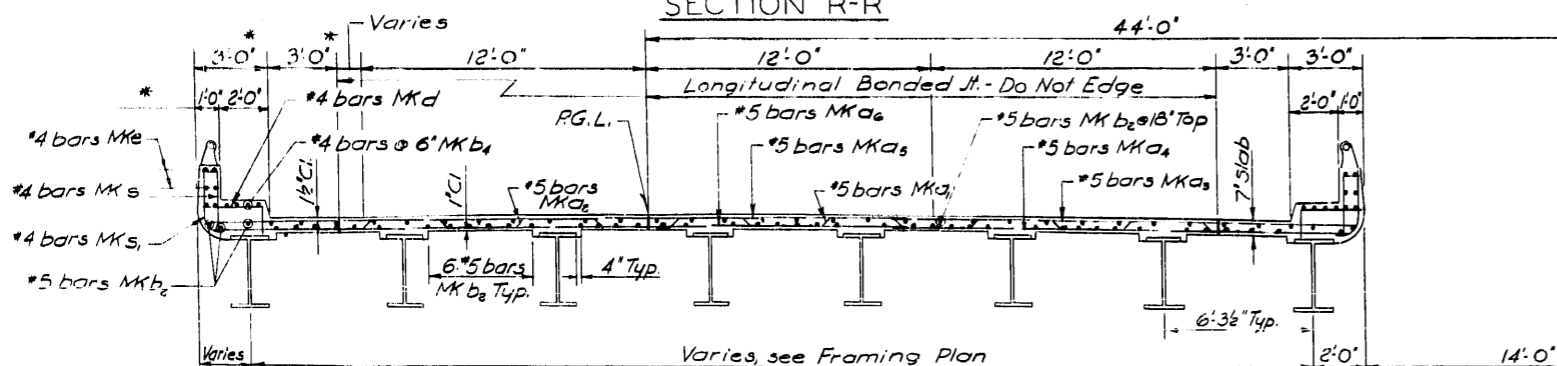
FAI-80	99-3D	WILL	52	13	SHEET NO. 6
99-3E/F			65	13	70 SHEETS
99-3P			52	13	



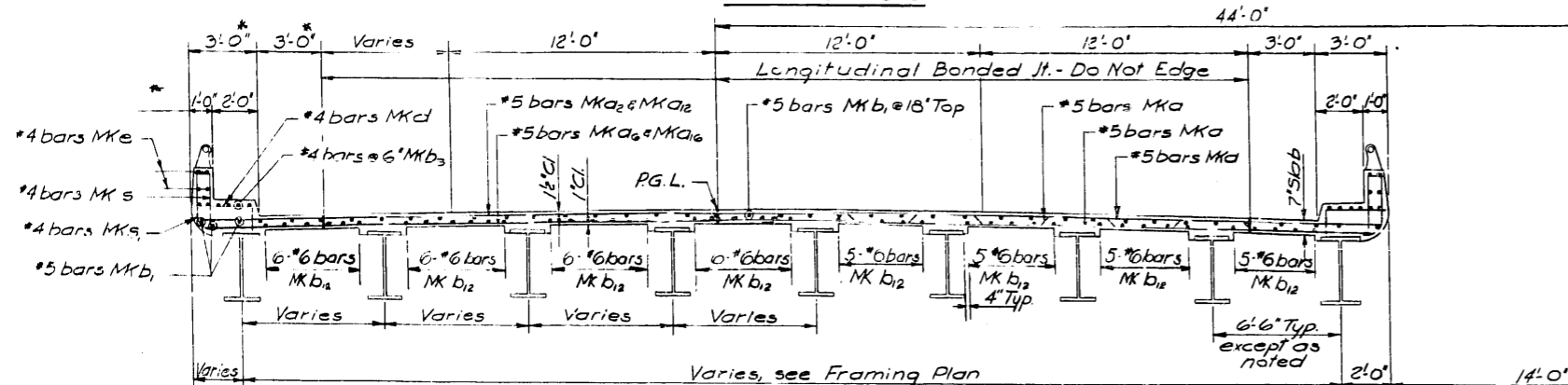
SECTION P-P



SECTION R-R



SECTION S-S



SECTION T-T

* Dimension normal to Curbline

DESIGNED	L. D
CHECKED	J. P. S.
DRAWN	M. M.
CHECKED	J. P. S.

For Notes see sh 5
for parapet details at lamp posts, see sh 30.

WEST APPROACH SPANS
CROSS-SECTIONS-2
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E4-F-P
Scale: None
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

PROJECT
WILL COUNTY
Date: Dec 28, 1960

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3D	39-3E		58	16
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	14

BILL OF MATERIALS
WEST APPROACH SPANS

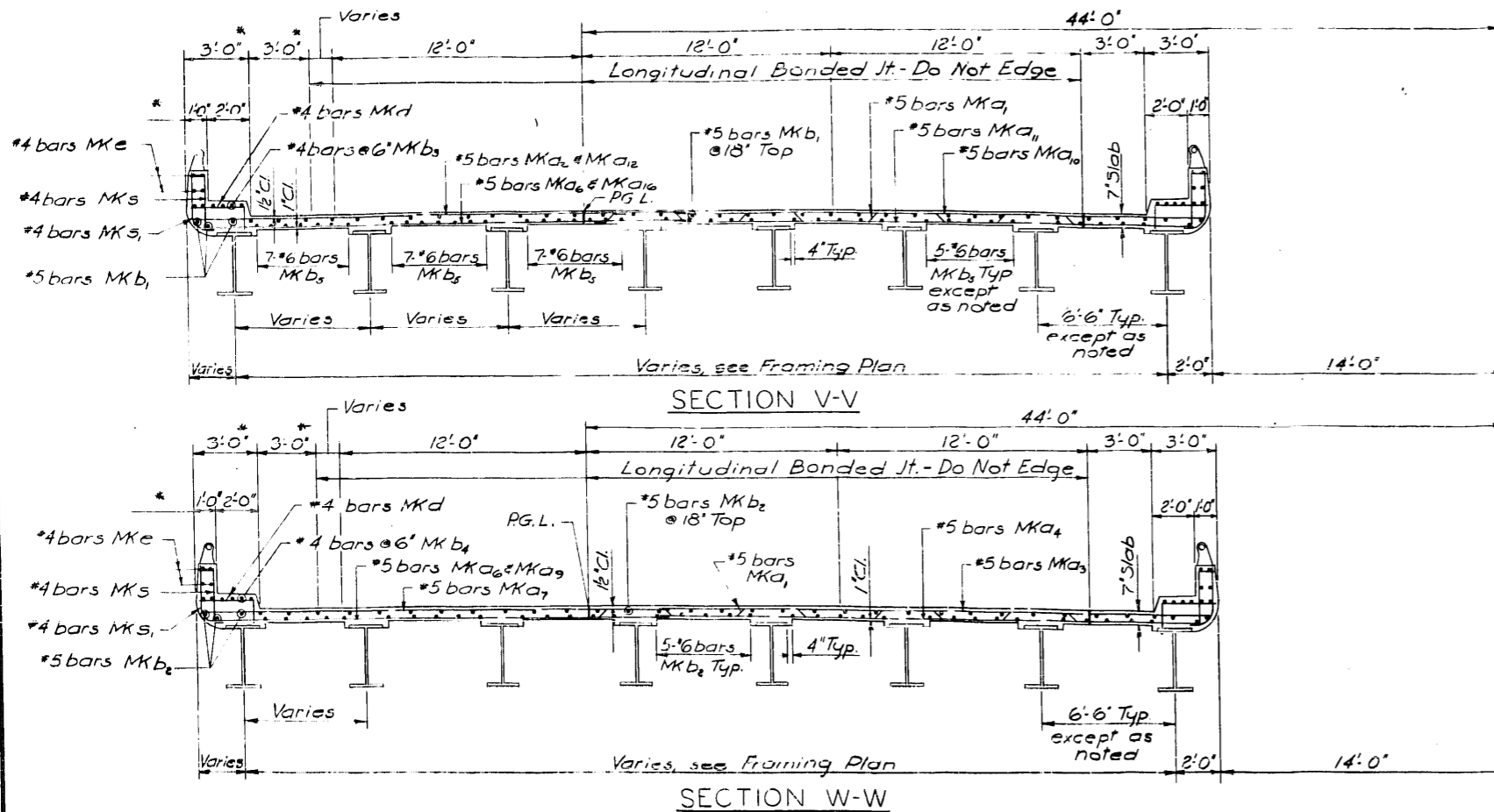
ITEM	UNIT	Section 99-3D		Section 99-3E	
		W.B. Rdwy	E.B. Rdwy	W.B. Rdwy	E.B. Rdwy
Class X Concrete	C.Y.	585	580		
Furn. Erect. Struct. Steel (Carbon)	Lb.			778,300	777,500
Furn. Erect. Struct. Steel (Low Alloy)	Lb.			4,700	4,700
Furnish. & Erect. Structural Steel	Lb.	1146	1146	783,000	782,200
Reinforcement Bars	Lb.	186,760	158,200		
Aluminum Handrail	LF	860	877		

Structural Steel includes weight of Rockers, Bolsters, Bearing plates, Lead plates, Pintles and Anchor Bolts. Estimated Weight of these Items is as follows:
E.B. Roadway: 27,100*
W.B. Roadway: 30,522*

NUMBER OF STUD SHEAR-CONNECTORS FOR COMPOSITE STRINGERS

SPAN NUMBER	STUDS REQUIRED**	
	W.B. ROADWAY	E.B. ROADWAY
4	1,810	1,764
5	1,871	1,902
6	1,840	1,936

**The quantity of studs shown in the table above is included in the weight of structural steel in the Bill of Materials



*Dimension normal to Curbline.

DESIGNED	L.D.
CHECKED	J.P.S.
DRAWN	M.M.
CHECKED	J.P.S.

For Notes, see sh. 5
For parapet details at lamp posts, see Sht 30

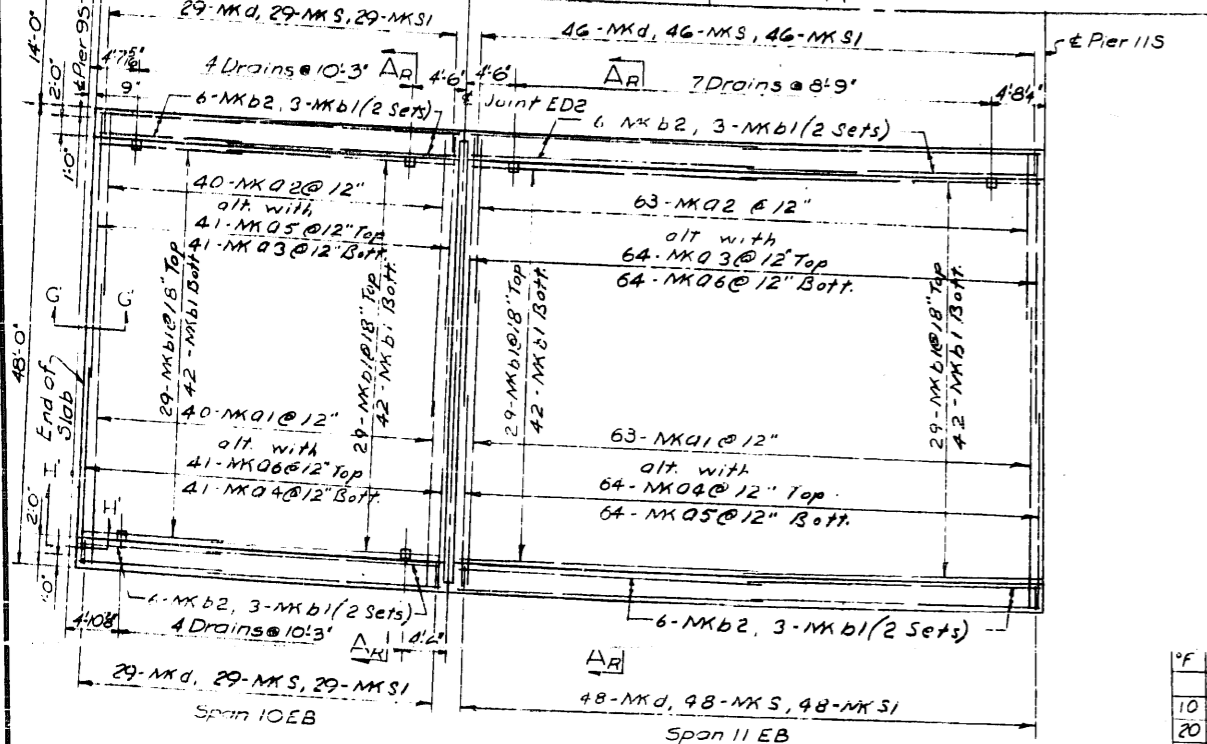
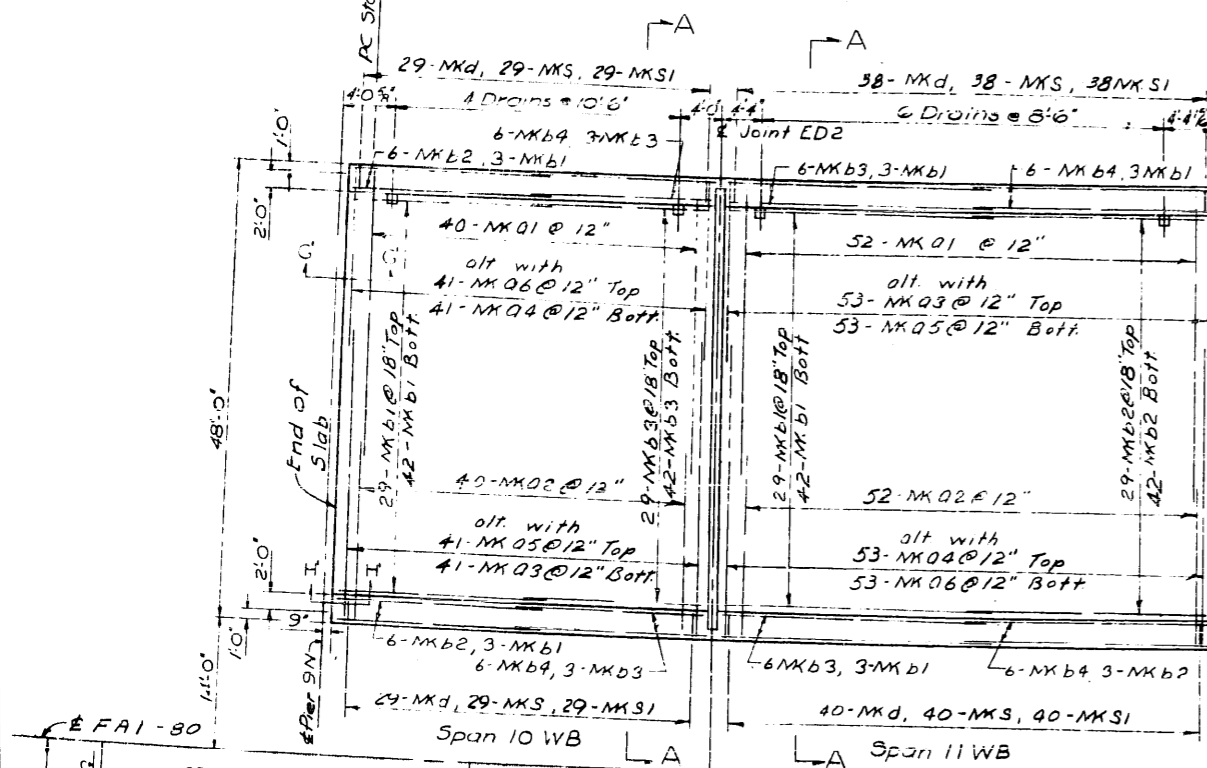
WEST APPROACH SPANS
CROSS-SECTIONS-3
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 1960

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

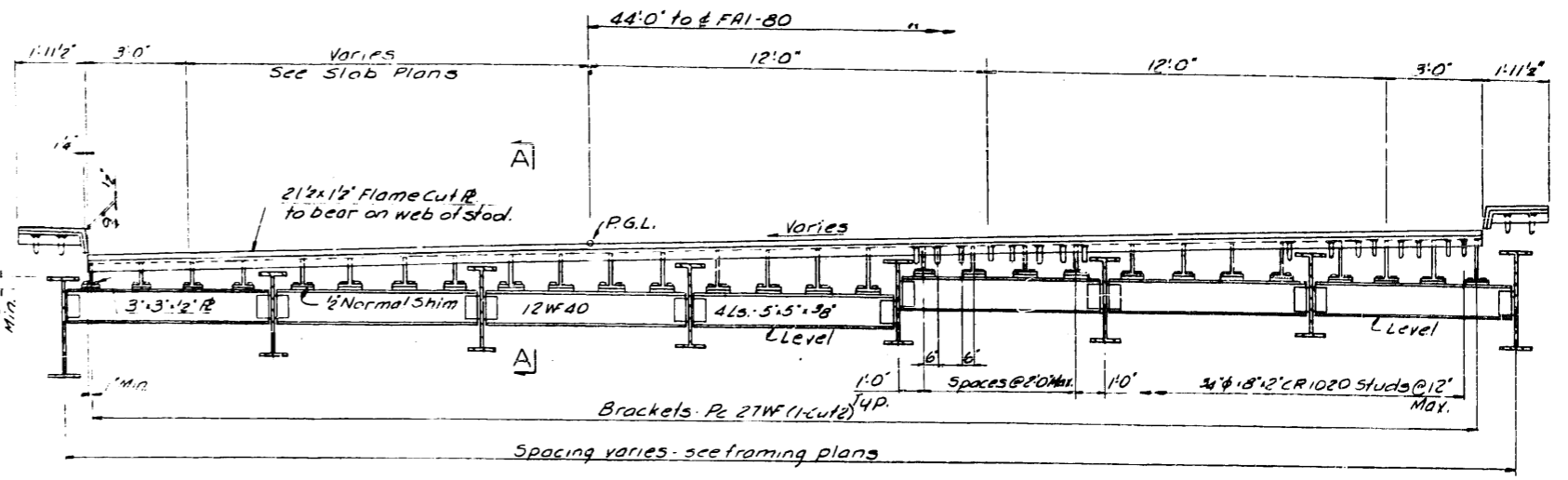
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	17
FED. ROAD DIST. NO.	ILLINOIS PROJECT			
99-3P			52	15



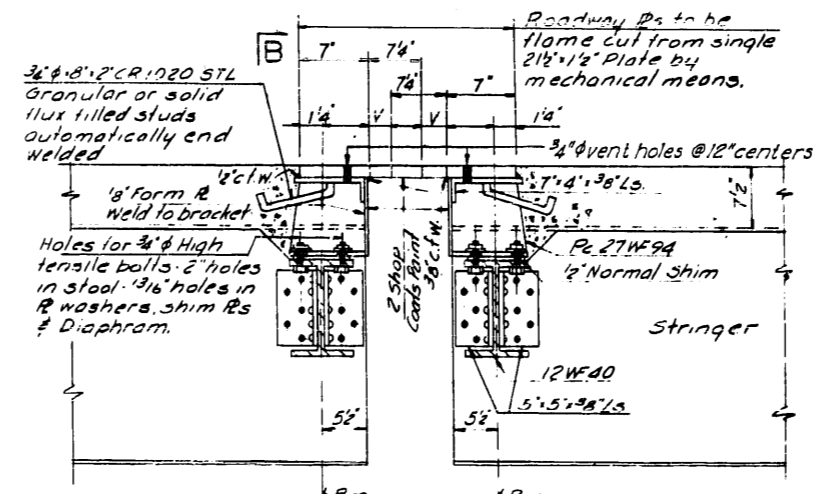
Slab Plan Notes:
For General Notes, see sh. 3
For Cross Sections, see sh. 13 & 15
For Bar Lists, see sh. 44 & 46
For Sections G-G & H-H see sh. 51
For Bill of Materials, see sh. 15

DESIGNED	H. C. M
CHECKED	L. D.
DRAWN	L. D.
CHECKED	H. C. M

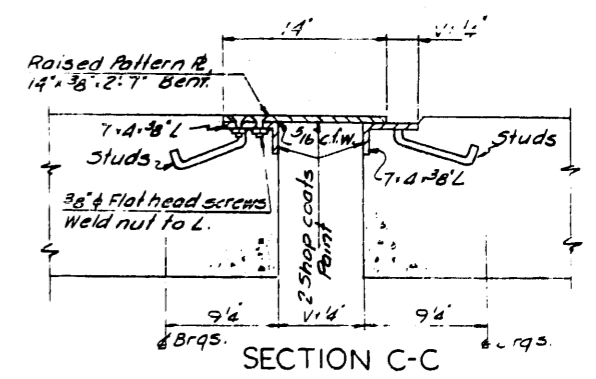
Per 5N/S	Per 10N/S
10 4'16"	4'32"
20 4'18"	3'16"
30 3'132"	3'232"
40 3'132"	3'132"
50 3'4"	3'4"
60 2'3'32"	3'32"
70 2'2'32"	2'232"
80 2'3'8"	2'9'16"
90 2'1'6"	2'1'32"
100 1'2532"	2'3'32"



SECTION B-B

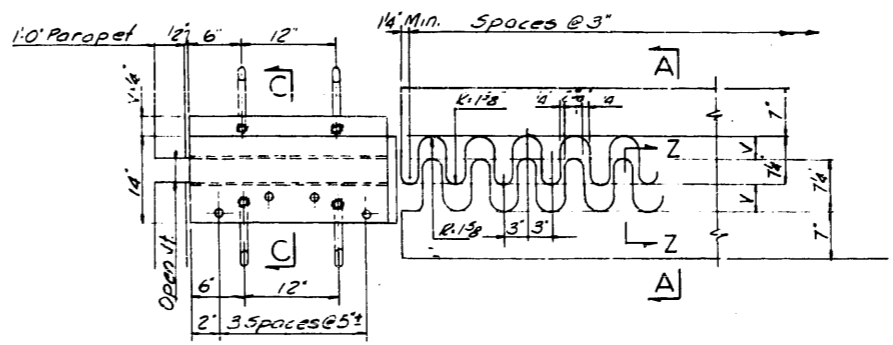


SECTION A-A



SECTION C-C

Notes:
Low Alloy Steel (A441) to be used in Roadway R.
Carbon Steel (A-7) to be used in Diaphragms & Shims.
All other steel - Carbon Steel (A313).
1/2 Normal Shims to be made up of 1/4" x 1 1/2" x 2 1/4" Ls.
Contractor for Sec. 99-3E & F to provide 50% excess shims (1-1/8" x 2-1/4" R's.)
Curb expansion devices shall be furnished & erected by the Contractor for Sec. 99-37. All other structural steel shall be furnished & erected by the Contractor for Sec. 99-3E & F.
For Stud Details and Section Z-Z, see sh. 54
For location of lamp posts, see Sh: 28, 29, & 30



PLAN

EXPANSION DAM ED 2
@ PIERS 5N/S & 10N/S

EAST APPROACH SPANS
EXPANSION DAM ED-2 & SLAB PLANS-1
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94 50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	PROJECT	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-30-E-F-P	WILL	52	22
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	65	16
			52	16

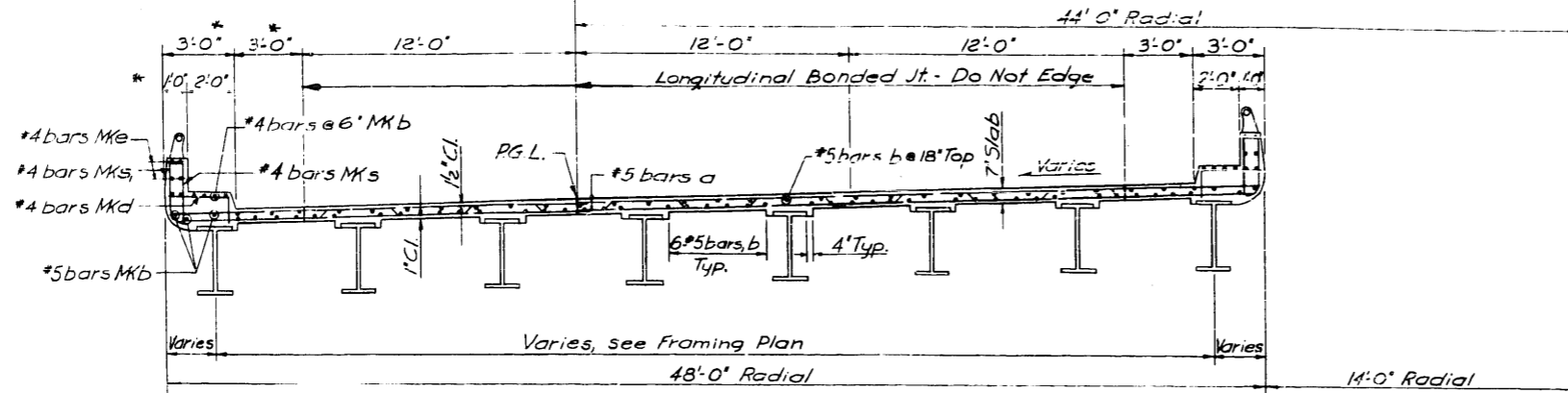
SHEET NO. 22
70 SHEETS

SUPERELEVATION DATA

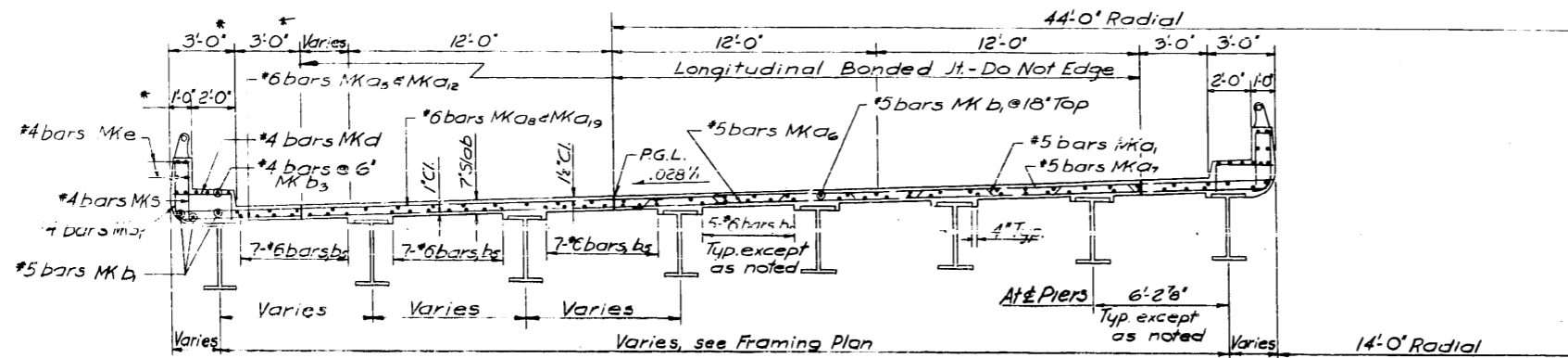
East Approach Spans

Normal Crown	Sta. 378+18.00	to	Sta. 391+26.95
Attained	Sta. 391+26.95	to	Sta. 392+38.99
Full S.E. = .028%	Sta. 392+38.99	to	Sta. 400+38.53
Attained	Sta. 400+38.53	to	Sta. 401+50.57
Normal Crown	Sta. 401+50.57	to	

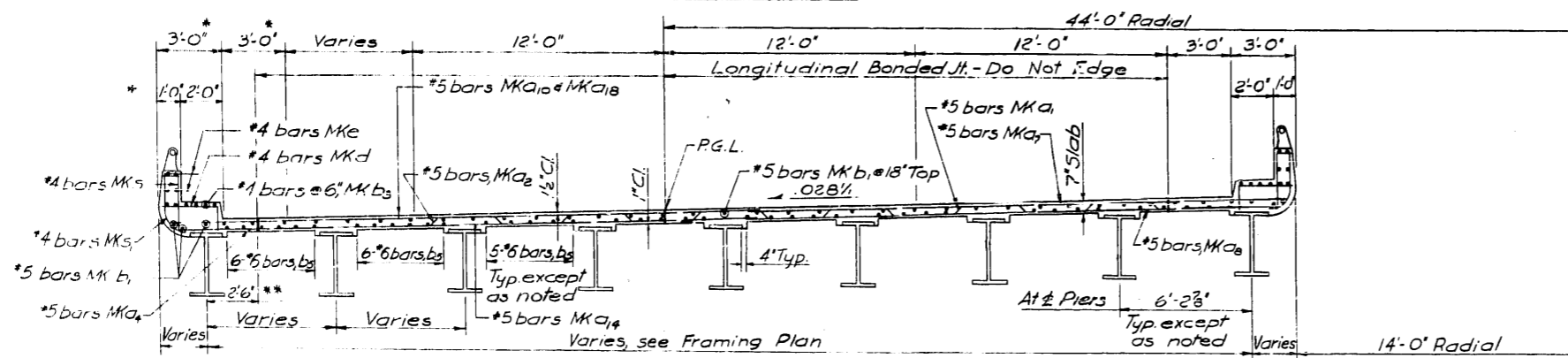
E.B. Roadway & W.B. Roadway to be superelevated downward to the north



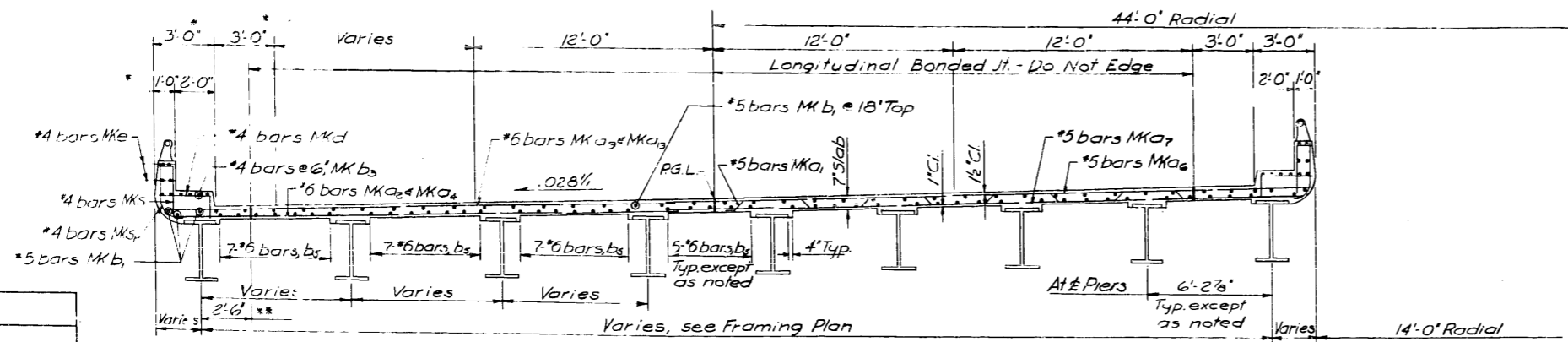
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

* Dimension normal to Center Line
** Dimension \pm Stringer to Long. Bonded Joint measured normal to \pm Stringer

DESIGNED	JPS
CHECKED	LD
DRAWN	M.M.
CHECKED	M.M.

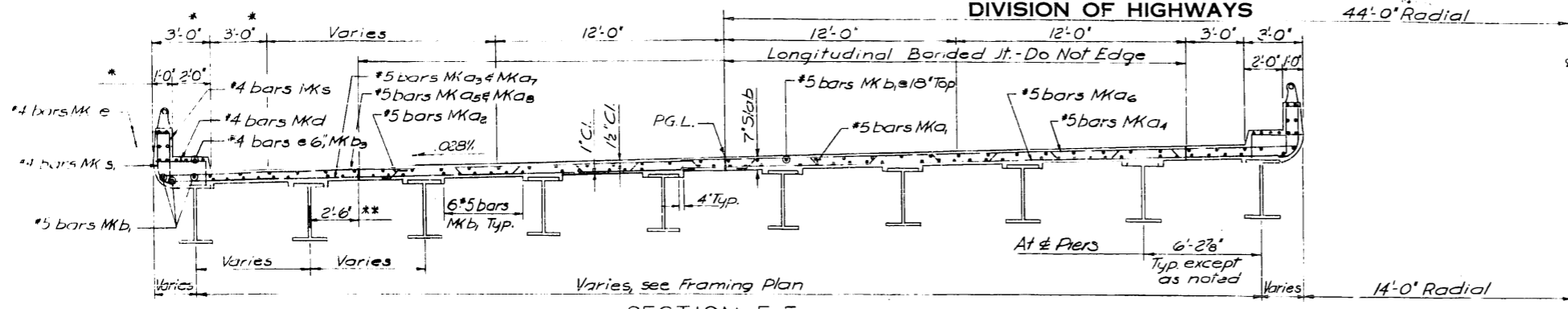
For Notes see sht 5
For parapet details at lamp posts, see Sht 30

EAST APPROACH SPANS
CROSS-SECTIONS-I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

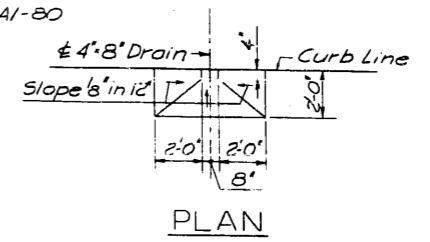
FAI ROUTE 80
SECTION 99-30-E-F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3D	E4F-P	WILL	65	17
FED. ROAD DIST. NO. 1	ILLINOIS PROJECT		52	17

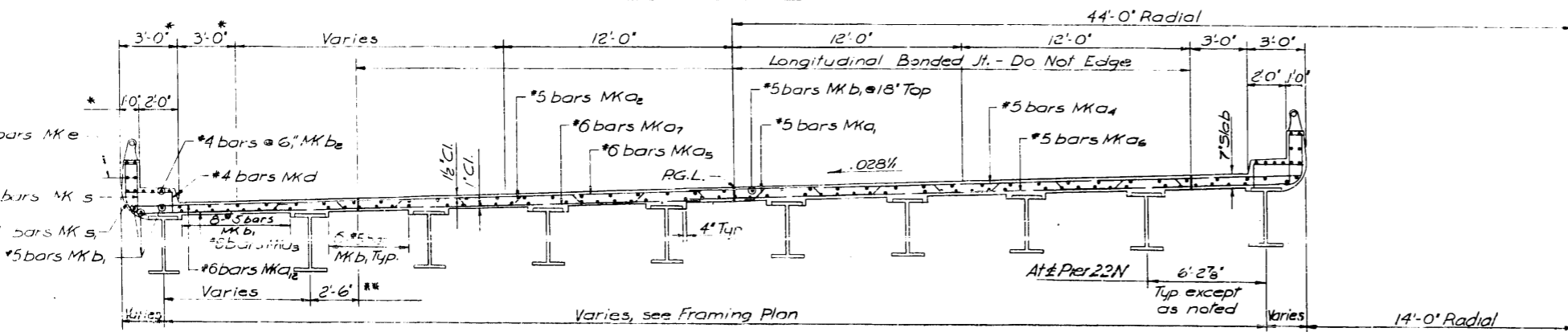
70 SHEETS



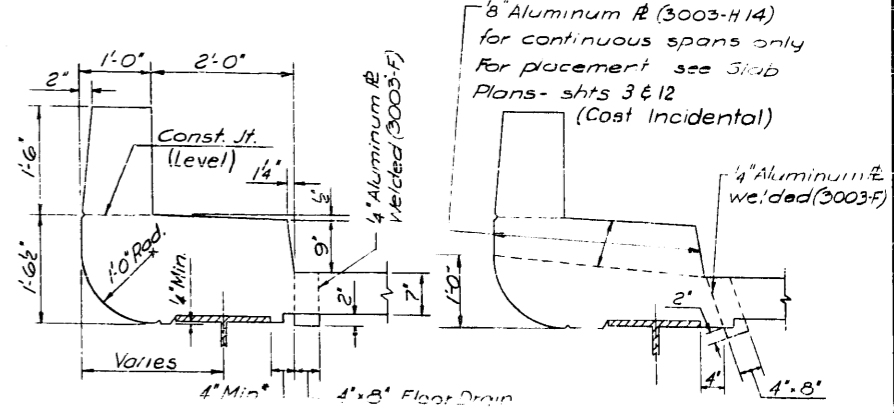
SECTION E-E



PLAN



SECTION F-F



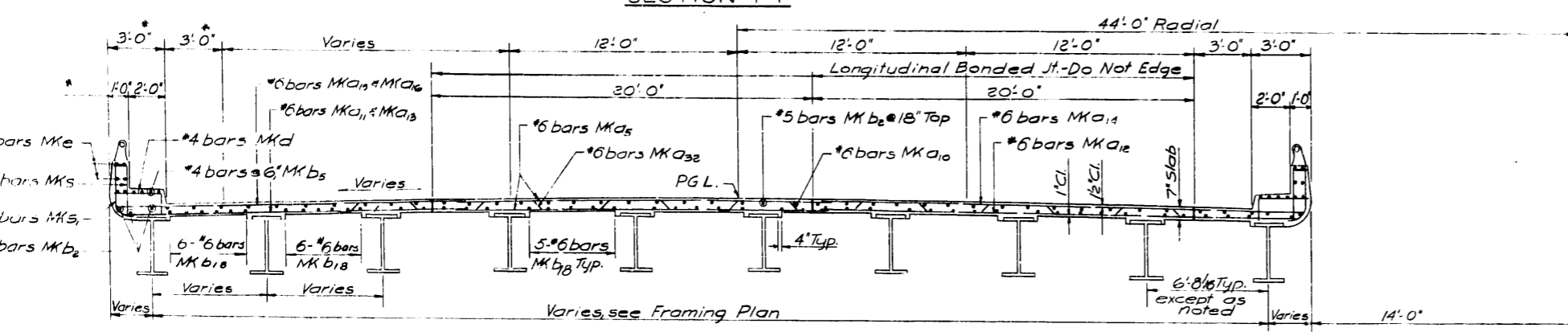
ELEVATION TYPE 1

ELEVATION TYPE 2

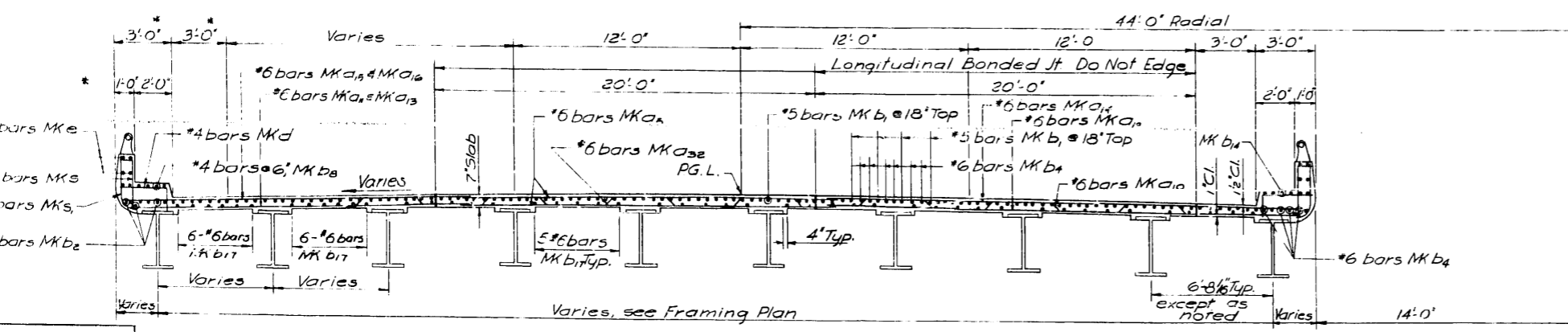
*If 4" Min. dimension can not be obtained use Type 2.

For dimensions not given see Type 1.

CURB, PARAPET, & FLOOR DRAIN DETAILS



SECTION G-G



SECTION H-H

For Notes see sht 5
For Parapet details of lamp posts, see Sht 30

EAST APPROACH SPANS
CROSS-SECTIONS-2
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

DESIGNED	J.P.S.
CHECKED	L.D.
DRAWN	M.M.
CHECKED	J.P.S.

* Dimension normal to Curb line
** Dimension ± Stringer to Long. Bonded Joint measured normal to ± Stringer

FAI ROUTE 80
SECTION 99-3D-E4F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

BILL OF MATERIALS
EAST APPROACH SPANS

ITEM	UNIT	Section 99-3D		Section 99-3E	
		W.B. Rdwy	E.B. Rdwy	W.B. Rdwy	E.B. Rdwy
Class X Concrete	C.Y.	1,669	1,561		
Fur&Erect. Struct. Steel (Carbon)	Lb.			1,734,400	1,615,200
Fur&Erect. Struct. Steel (Low Alloy)	Lb.			4,600	4,600
Furnishing&Erecting Structural Steel	Lb.	1,146	1,146	1,739,000	1,619,800
Reinforcement Bars	Lb.	358,520	303,360		
Aluminum Handrail	L.F.	2,171	2,274		

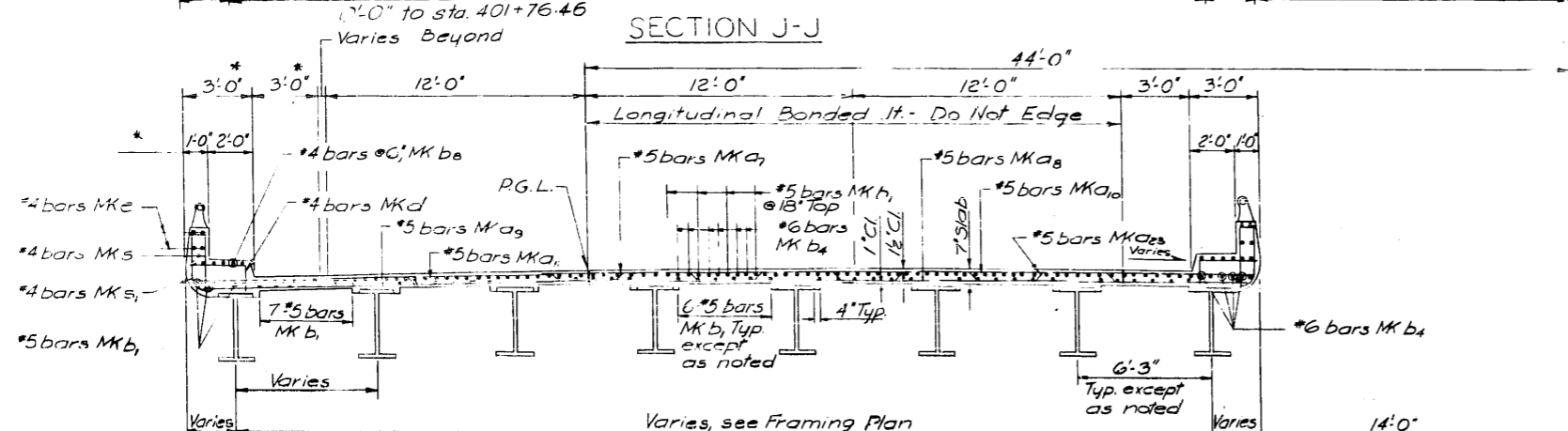
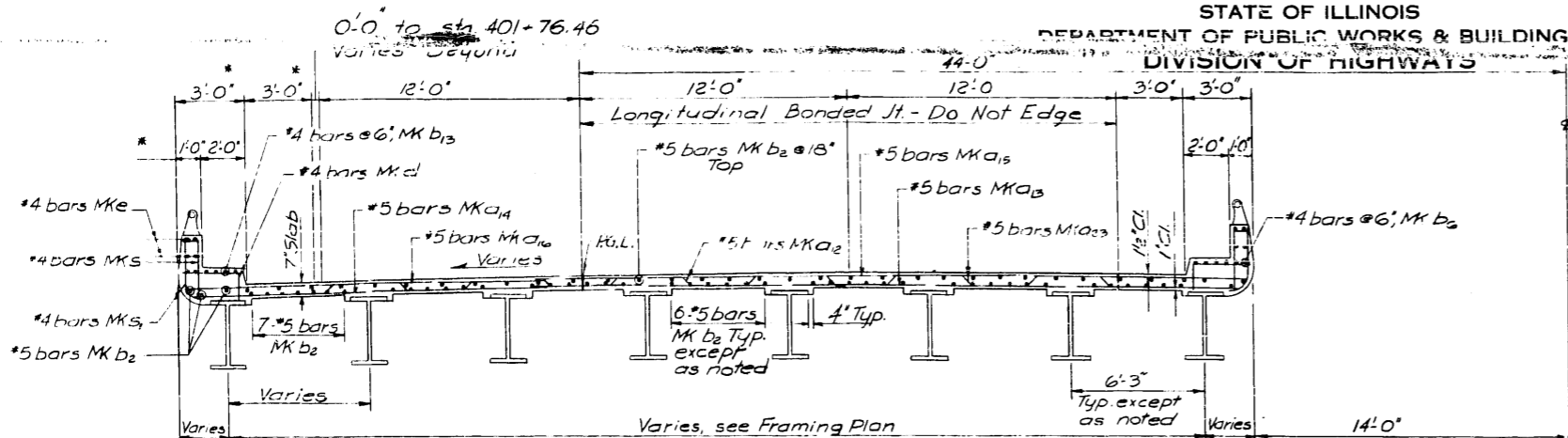
Structural Steel includes weight of Rockers, Bolsters, Bearing Plates, Lead Plates, Pintles and Anchor Bolts. Estimated weight of these items is as follows:

E.B. Roadway 80,300*
W.B. Roadway 83,500*

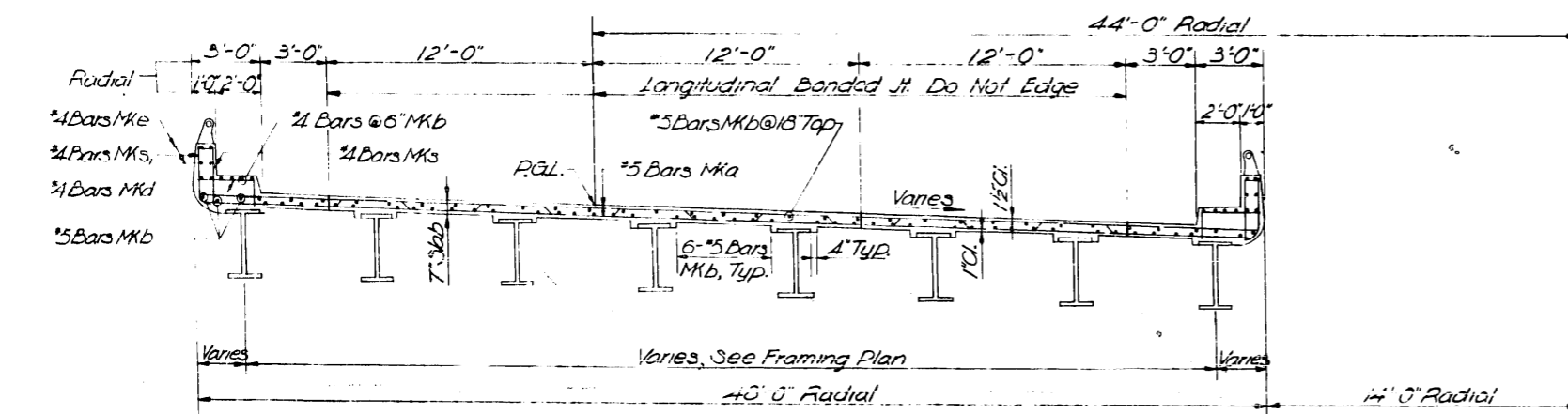
NUMBER OF STUD
SHEAR CONNECTORS
FOR COMPOSITE STRINGERS

SPAN NUMBER	STUDS REQUIRED**		SPAN NUMBER	STUDS REQUIRED**	
	E.B. ROADWAY	W.B. ROADWAY		E.B. ROADWAY	W.B. ROADWAY
10	None	None	17	1,584	1,744
11	1,584	1,464	18	1,852	1,740
12	1,584	1,464	19	1,852	1,854
13	1,584	1,464	20	1,852	1,940
14	1,584	1,464	21	1,852	2,019
15	1,623	1,426	22	1,852	2,172
16	1,572	1,572	23	1,648	2,000

** The Quantity of studs shown in the table above is included in the weight of structural steel in the Bill of Materials.



* Dimension normal to Curb line



SECTION AR-AR

DESIGNED	J.P.S.
CHECKED	L.D.
DRAWN	M.M.
CHECKED	J.P.S.

For Notes, see sh 5
For parapet details at lampposts, see Sh 3C

EAST APPROACH SPANS
CROSS-SECTIONS-3
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec 28, 1960

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3D	99-3E&F	WILL.	58	25
ILLINOIS PROJECT			60	19

70 SHEETS

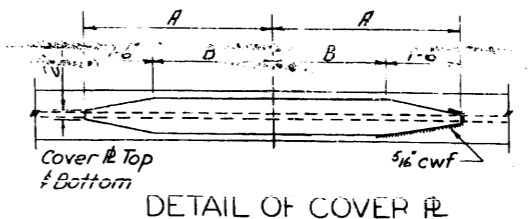
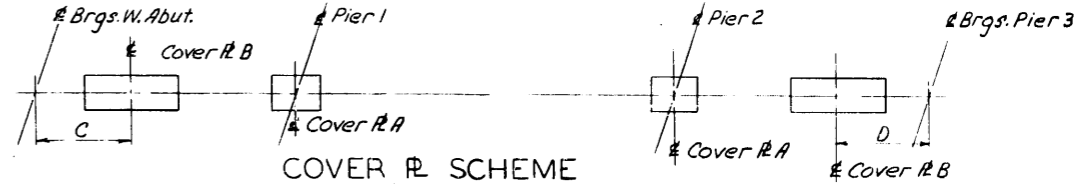


TABLE OF COVER PLATES

Stringer No.	Beam Size	Cover A				Cover B			
		Size	A	B	Length	Size	A	B	Length
CS1	36 WF150	10 \times 16	12'-6"	11'-0"	25'-0"	10 \times 16	16'-6"	15'-0"	33'-0"
CS2 Thru CS9 Incl.	36 WF150	10 \times 16	12'-6"	11'-0"	25'-0"	10 \times 16	16'-6"	15'-0"	33'-0"
CS10	36 WF150	10 \times 16	12'-6"	11'-0"	25'-0"	10 \times 16	16'-6"	15'-0"	33'-0"
CS11 & CS19	36 WF150	10 \times 16	12'-6"	11'-0"	25'-0"	10 \times 16	16'-6"	15'-0"	33'-0"
CS12 Thru CS18 Incl.	36 WF150	10 \times 16	12'-6"	11'-0"	25'-0"	10 \times 16	16'-6"	15'-0"	33'-0"



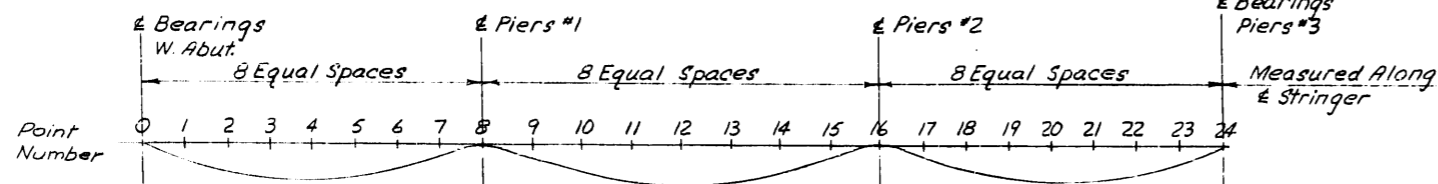
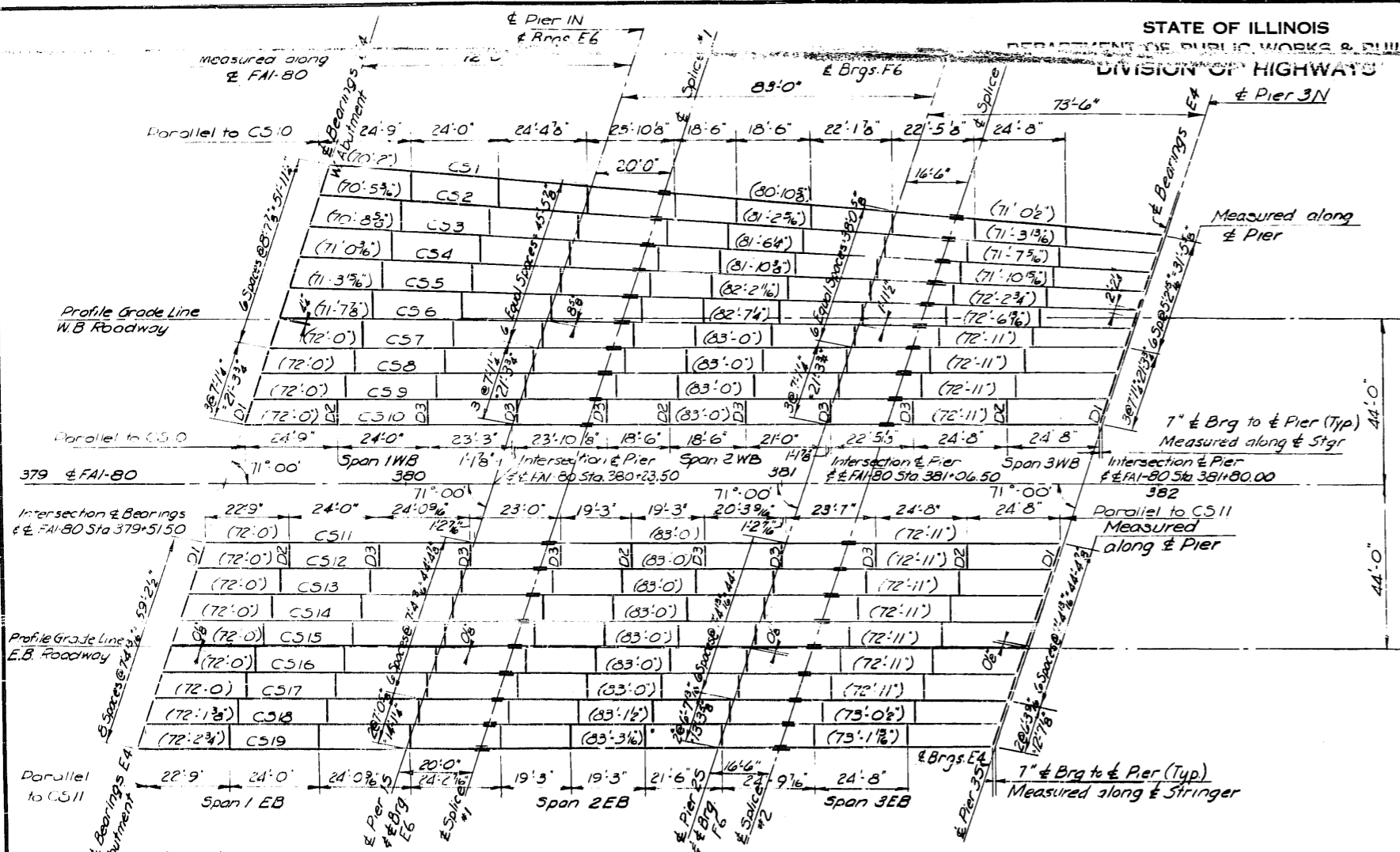
TOP OF BEAM ELEVATIONS D.L. DEFLECTIONS

Strgr. No.	Bearing			Splice		Span 1		Span 2		Span 3	
	W. Abut.	Pier 1	Pier 2	#1	#2	Pt. 2	Pt. 4	Pt. 6	Pt. 10	Pt. 14	Pt. 18
CS1	578.53	580.75	583.16	585.07	581.36	583.62	585.00	586.38	587.76	589.14	590.52
CS2	578.61	580.83	583.23	585.13	581.43	583.69	585.02	586.40	587.78	589.16	590.54
CS3	578.70	580.90	583.30	585.19	581.51	583.76	585.04	586.42	587.80	589.18	590.56
CS4	578.78	580.98	583.37	585.24	581.58	583.82	585.10	586.48	587.86	589.24	590.62
CS5	578.86	581.03	583.39	585.23	581.62	583.83	585.10	586.48	587.86	589.24	590.62
CS6	578.84	580.99	583.35	585.19	581.58	583.79	585.06	586.44	587.82	589.20	590.58
CS7	578.70	580.86	583.24	585.10	581.46	583.68	585.00	586.38	587.76	589.14	590.52
CS8	578.51	580.67	583.05	584.92	581.27	583.50	585.00	586.38	587.76	589.14	590.52
CS9	578.30	580.46	582.85	584.72	581.06	583.30	585.00	586.38	587.76	589.14	590.52
CS10	578.09	580.25	582.65	584.53	580.85	583.10	585.00	586.38	587.76	589.14	590.52
CS11	577.76	579.92	582.34	584.26	580.52	582.80	585.00	586.38	587.76	589.14	590.52
CS12	577.83	579.99	582.42	584.34	580.59	582.88	585.00	586.38	587.76	589.14	590.52
CS13	577.90	580.06	582.50	584.43	580.67	582.96	585.00	586.38	587.76	589.14	590.52
CS14	577.96	580.12	582.56	584.49	580.72	583.02	585.00	586.38	587.76	589.14	590.52
CS15	577.93	580.09	582.53	584.47	580.69	583.00	585.00	586.38	587.76	589.14	590.52
CS16	577.81	579.97	582.42	584.37	580.57	582.89	585.00	586.38	587.76	589.14	590.52
CS17	577.61	579.78	582.23	584.19	580.38	582.70	585.00	586.38	587.76	589.14	590.52
CS18	577.40	579.57	582.04	584.01	580.17	582.51	585.00	586.38	587.76	589.14	590.52
CS19	577.18	579.36	581.84	583.83	579.97	582.32	585.00	586.38	587.76	589.14	590.52

Note: All deflections $\frac{1}{2}$ down.
 NOTES:
 All Intermediate Diaphragms to be perpendicular to \pm CS10 or \pm CS11.
 All Diaphragms in line have same mark for size of Diaphragms & Connections see sheet 26 & 27.
 For additional notes see Sheet 21 For Bill of Materials see sh. 7

**WEST APPROACH SPANS
FRAMING PLANS-I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50**

FAI ROUTE 80 SECTION 99-3D-E&F-P PROJECT WILL COUNTY
 Scale: None Date: Dec. 28, 1960
 BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
 WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.



DEAD LOAD DEFLECTIONS
Deflections are for weight of concrete slab only

TOP OF SLAB ELEVATIONS

Strgr. No.	POINT NUMBERS																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CS1	579.16	579.43	579.71	579.99	580.27	580.55	580.82	581.10	581.38	581.70	582.01	582.32	582.62	582.92	583.21	583.51	583.79	584.04	584.29	584.53	584.77	585.01	585.24	585.47	585.70
CS2	579.24	579.52	579.80	580.07	580.35	580.63	580.90	581.18	581.46	581.77	582.08	582.39	582.69	582.99	583.29	583.58	583.86	584.11	584.36	584.60	584.84	585.07	585.30	585.53	585.76
CS3	579.33	579.60	579.88	580.15	580.43	580.70	580.98	581.26	581.53	581.85	582.16	582.46	582.77	583.06	583.36	583.65	583.93	584.18	584.43	584.67	584.90	585.14	585.37	585.60	585.82
CS4	579.41	579.69	579.96	580.24	580.51	580.78	581.06	581.33	581.61	581.92	582.23	582.54	582.84	583.14	583.43	583.72	584.00	584.25	584.49	584.73	584.96	585.19	585.42	585.64	585.87
CS5	579.49	579.76	580.03	580.30	580.57	580.84	581.11	581.39	581.66	581.97	582.27	582.57	582.87	583.17	583.46	583.74	584.02	584.26	584.50	584.74	584.97	585.20	585.42	585.64	585.86
CS6	579.47	579.74	580.01	580.27	580.54	580.81	581.08	581.35	581.62	581.93	582.23	582.53	582.83	583.12	583.41	583.70	583.98	584.22	584.46	584.69	584.92	585.15	585.38	585.60	585.82
CS7	579.33	579.60	579.87	580.14	580.41	580.68	580.95	581.22	581.49	581.80	582.11	582.41	582.71	583.01	583.30	583.59	583.87	584.11	584.35	584.59	584.83	585.06	585.29	585.51	585.73
CS8	579.14	579.41	579.68	579.95	580.22	580.49	580.76	581.03	581.30	581.61	581.92	582.22	582.52	582.82	583.11	583.40	583.68	583.93	584.17	584.41	584.64	584.87	585.10	585.33	585.55
CS9	578.93	579.20	579.47	579.74	580.01	580.28	580.55	580.82	581.09	581.40	581.71	582.01	582.32	582.61	582.91	583.20	583.48	583.73	583.97	584.21	584.44	584.68	584.91	585.13	585.35
CS10	578.72	579.09	579.36	579.63	579.90	580.17	580.44	580.71	580.98	581.25	581.52	581.81	582.11	582.41	582.70	582.99	583.28	583.52	583.77	584.01	584.24	584.48	584.71	584.94	585.16
CS11	578.39	578.66	578.93	579.20	579.47	579.74	580.01	580.28	580.55	580.82	581.11	581.48	581.79	582.09	582.39	582.68	582.97	583.22	583.47	583.72	583.96	584.19	584.43	584.66	584.89
CS12	578.46	578.73	579.00	579.27	579.54	579.81	580.08	580.35	580.62	580.89	581.24	581.55	581.86	582.17	582.47	582.76	583.05	583.30	583.55	583.80	584.04	584.28	584.51	584.74	584.97
CS13	578.53	578.80	579.07	579.34	579.61	579.88	580.15	580.42	580.69	580.96	581.32	581.63	581.94	582.24	582.54	582.84	583.13	583.38	583.63	583.88	584.12	584.36	584.60	584.83	585.06
CS14	578.59	578.86	579.13	579.40	579.67	579.94	580.21	580.48	580.75	581.02	581.37	581.68	581.99	582.30	582.60	582.89	583.19	583.44	583.69	583.94	584.18	584.42	584.66	584.89	585.12
CS15	578.56	578.83	579.10	579.37	579.64	579.91	580.18	580.45	580.72	581.03	581.34	581.65	581.96	582.27	582.57	582.87	583.16	583.42	583.67	583.92	584.16	584.40	584.64	584.87	585.10
CS16	578.44	578.71	578.98	579.25	579.52	579.79	580.06	580.33	580.60	580.91	581.22	581.54	581.85	582.15	582.46	582.76	583.05	583.31	583.56	583.81	584.05	584.29	584.53	584.77	585.00
CS17	578.24	578.52	578.79	579.06	579.33	579.60	579.87	580.14	580.41	580.72	581.03	581.34	581.65	581.96	582.26	582.56	582.86	583.12	583.37	583.62	583.86	584.11	584.35	584.59	584.82
CS18	578.03	578.30	578.57	578.84	579.11	579.38	579.65	579.93	580.20	580.51	580.82	581.17	581.45	581.76	582.07	582.37	582.67	582.92	583.18	583.43	583.68	583.93	584.17	584.41	584.64
CS19	577.81	578.08	578.35	578.63	578.90	579.17	579.44	579.71	579.99	580.26	580.52	580.78	581.04	581.30	581.56	581.82	582.08	582.34	582.60	582.86	583.11	583.37	583.62	583.87	584.12

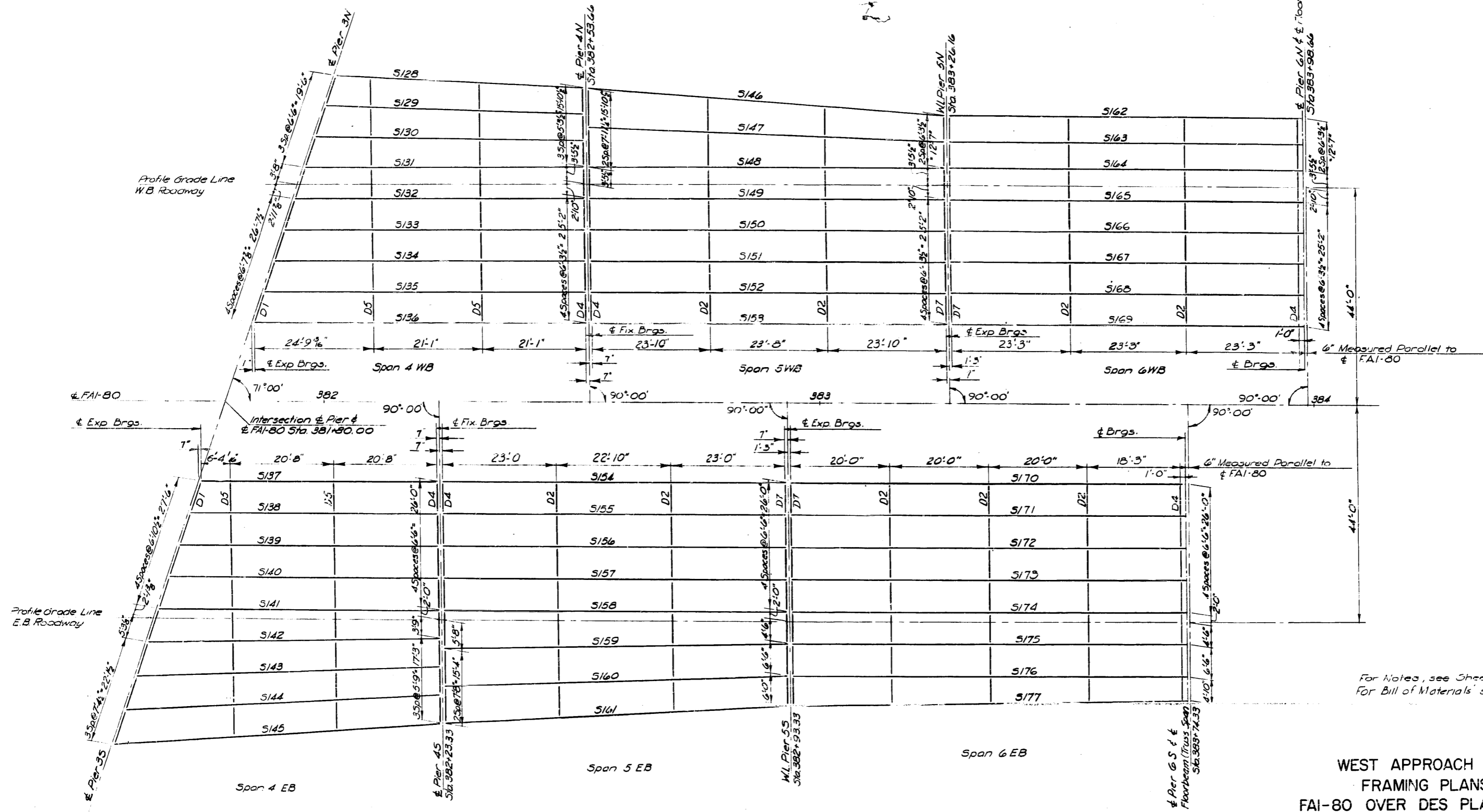
Note: Slab elevations are top of slab elevations at \pm stringers. see sh. 40

DESIGNED R.H.
 CHECKED J.T.L.
 DRAWN K.F.R.
 CHECKED H.C.M.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	26
	99-3E		65	20
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT:		
	99-3P		52	20

SHEET NO. 17
70 SHEETS



For Notes, see Sheet 21
For Bill of Materials, see sh 7

WEST APPROACH SPANS
FRAMING PLANS-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	R.H.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.

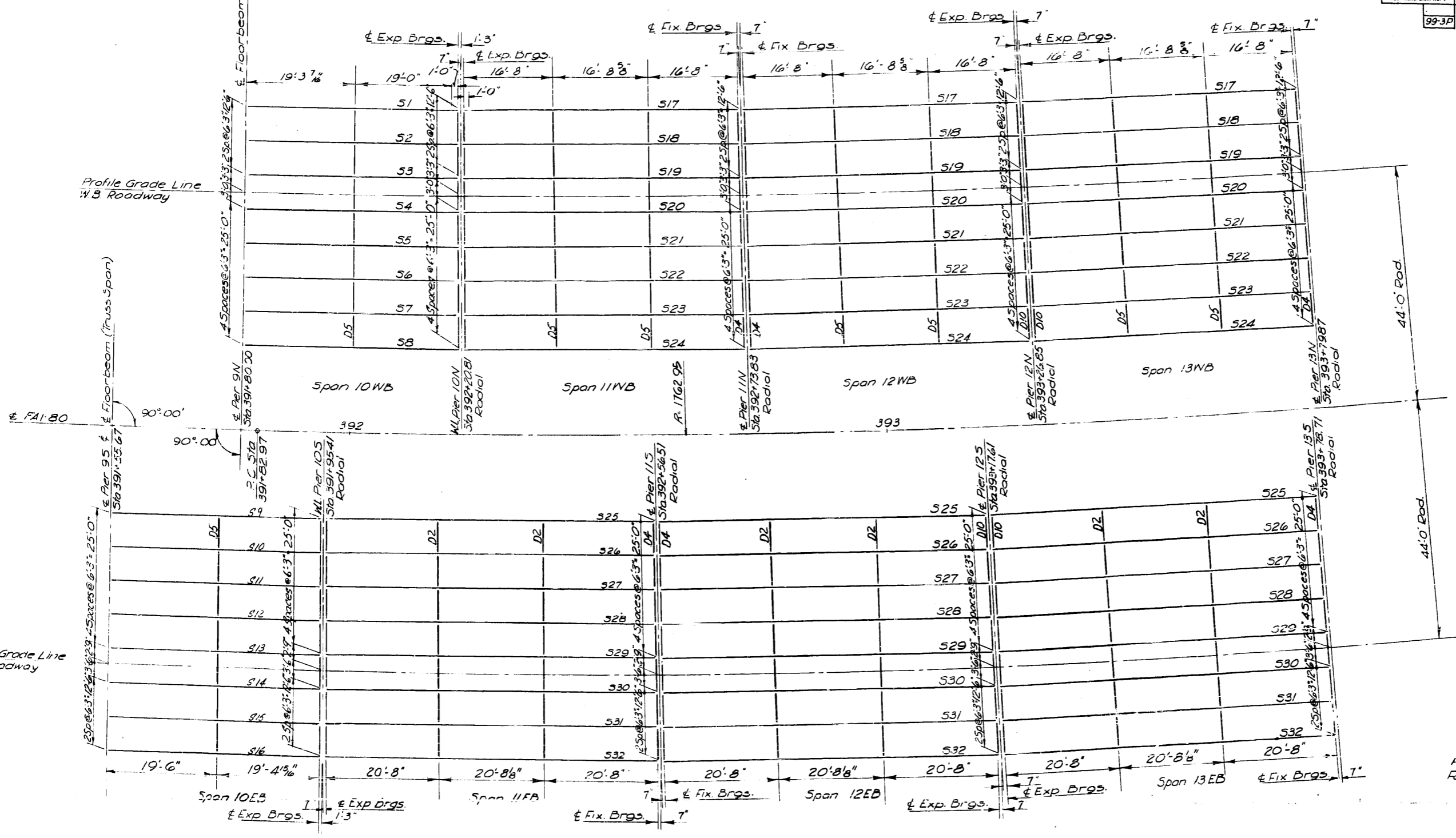
FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

BLAUVELY ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3P		WILL.	52	21
SHEET NO. 19				
10 SHEETS				



For Notes see Sheet 21
For Bill of Materials' see st. 15

EAST APPROACH SPANS
FRAMING PLANS - I
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	F.H.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	M.C.M.

FAI ROUTE 80
SECTION 99-3D-E4F-P
Scale: None

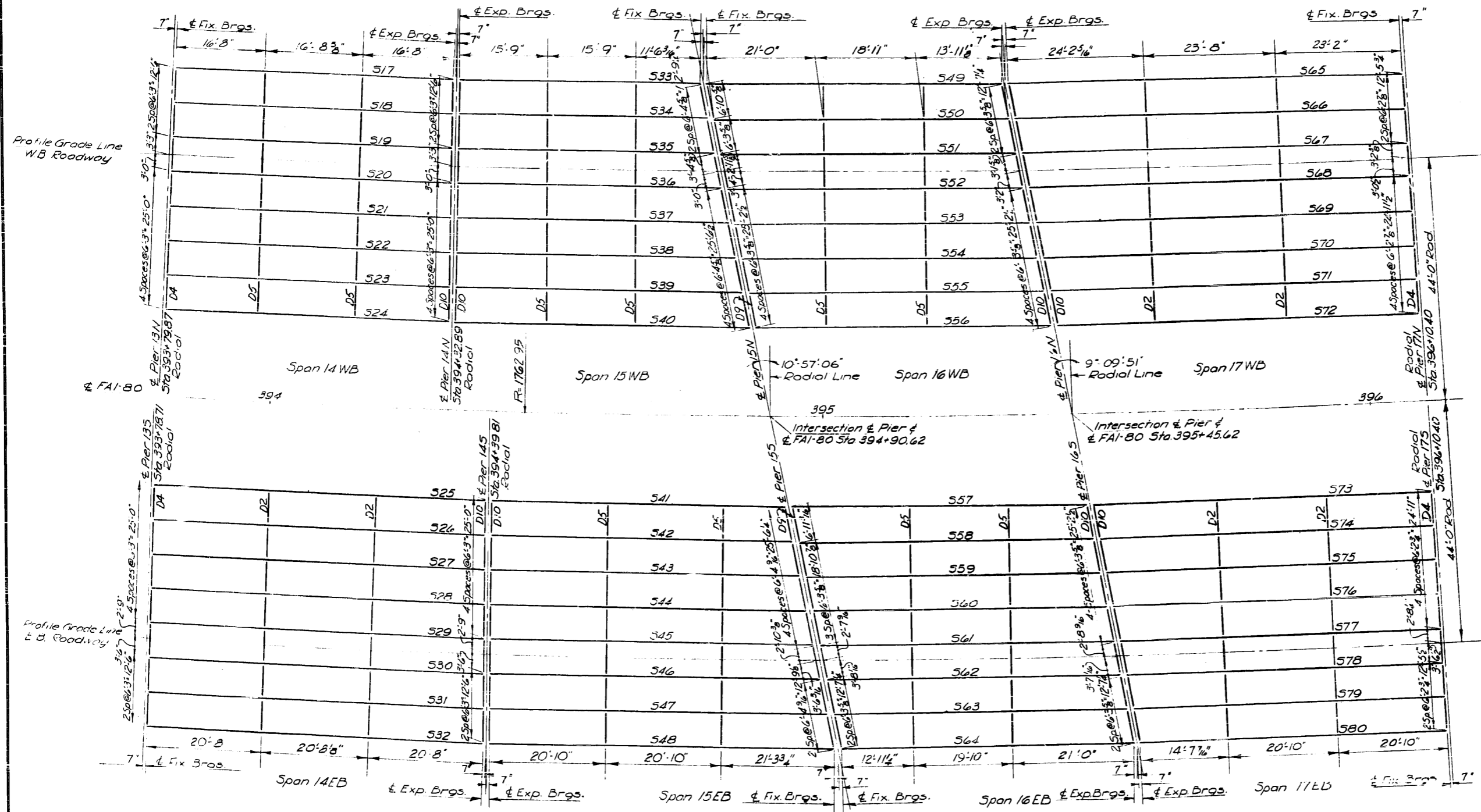
PROJECT:
WILL COUNTY
Date: Dec. 28, 1960

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D-E	WILL	65	28
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	28
99-3D				

SHEET NO. 19
70 SHEETS



For Notes see Sheet 21
For 'Bill of Materials' see sh. 15

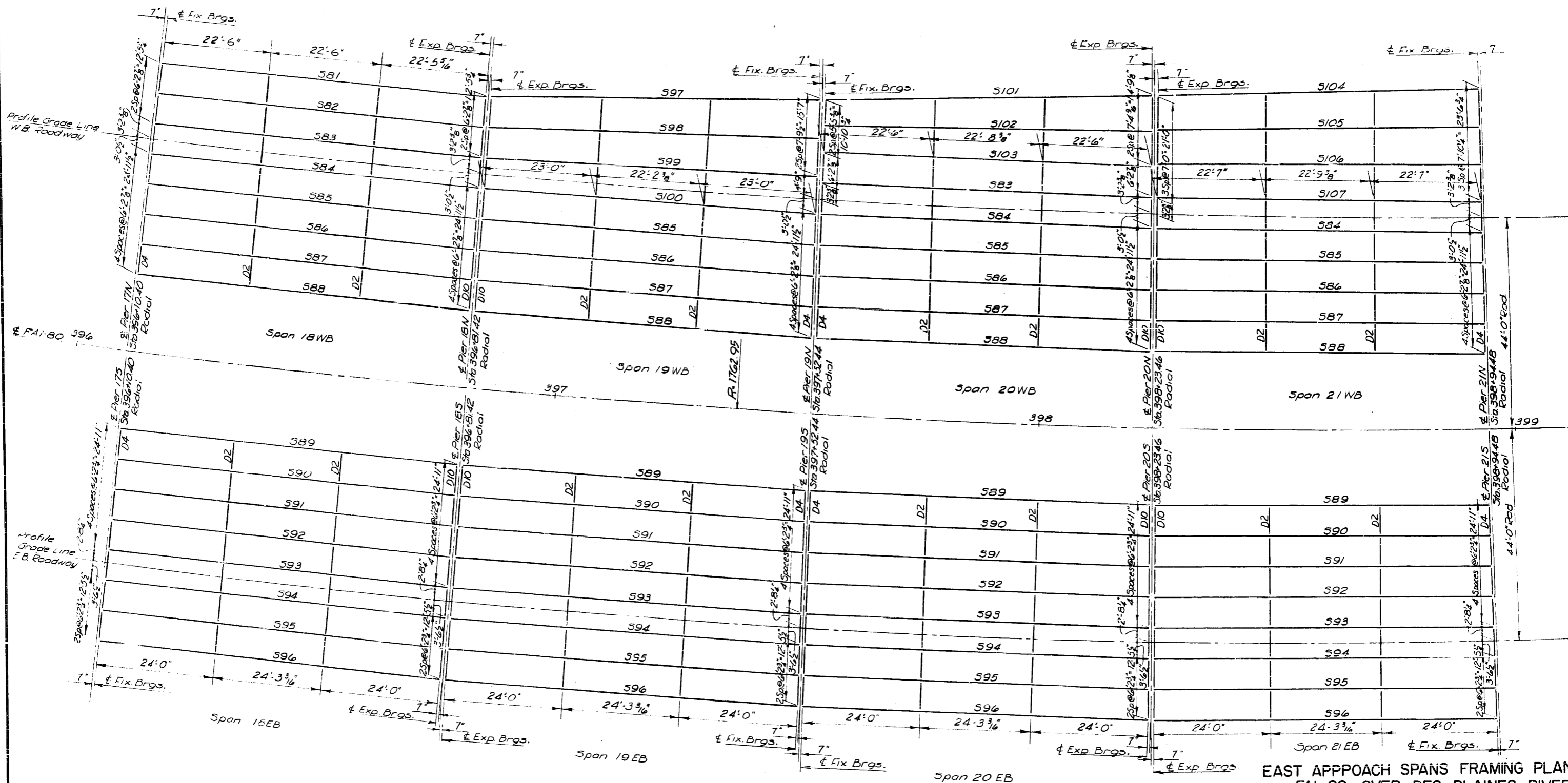
EAST APPROACH SPANS
FRAMING PLANS-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	J.P.S.
CHECKED	F.H.
DRAWN	M.M.
CHECKED	H.C.M.

FAI ROUTE 80 PROJECT
SECTION 99-3D-E&F-P WILL COUNTY
Scale: None Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3D			58	29
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
99-3P			52	23



DESIGNED	J.P.S.
CHECKED	F.H.
DRAWN	M.M.
CHECKED	H.C.M.

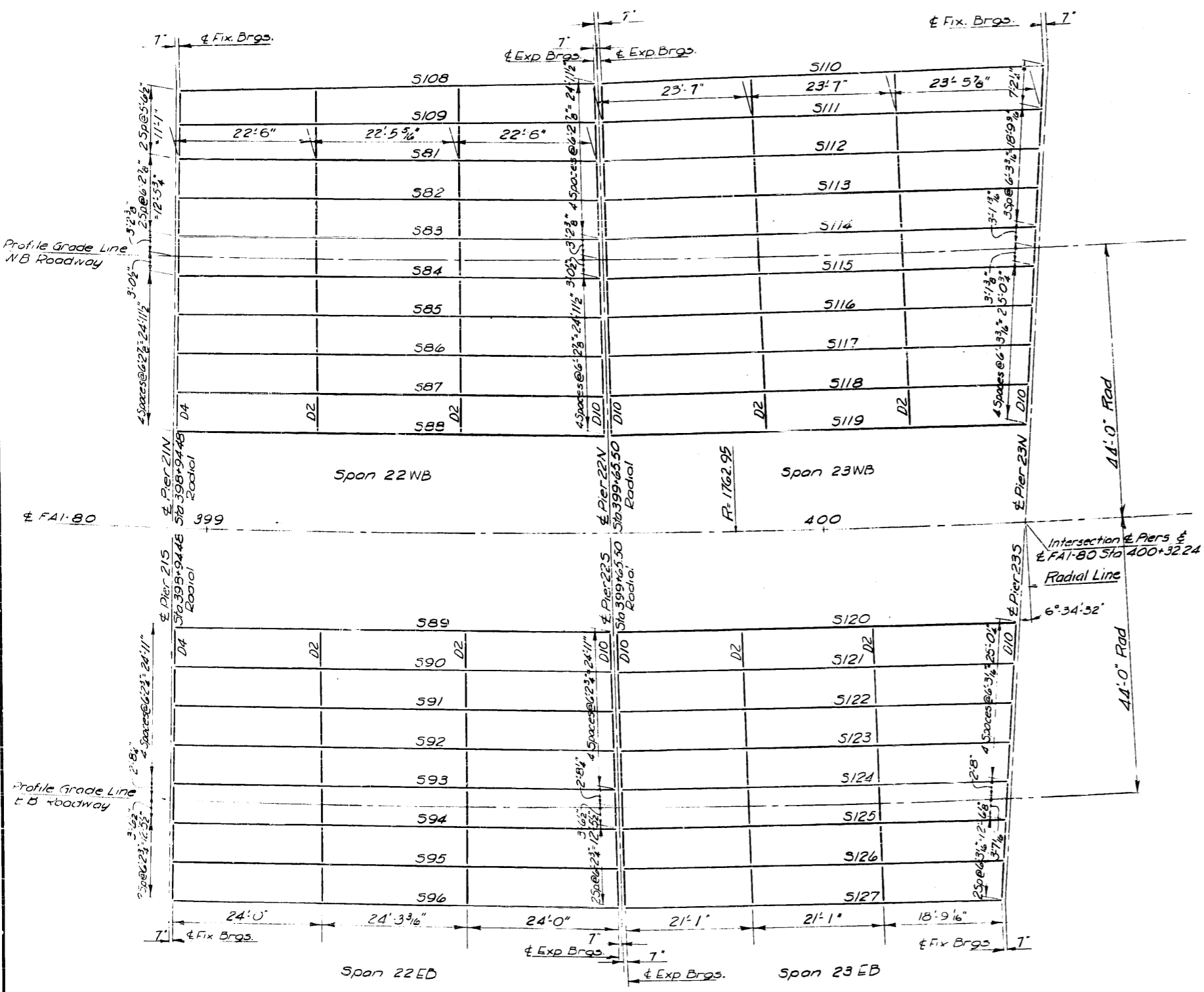
For Notes see Sheet 21
For Bill of Materials see sh. 15

EAST APPROACH SPANS FRAMING PLANS-3
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3D-E4F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec 28, 1960
SLAWYET ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.Y. NEW YORK N.Y. CRYSTAL LAKE ILL.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION & CONSTRUCTION
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	PROJECT	SHEET NO.	TOTAL SHEETS
FAI-80	99-3D	WILL		58	30
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			65	24
				99-3P	62



Notes:
 Stringer spacing dimensions are along ϵ of Piers.
 Dimension ϵ Pier to ϵ Bearing is measured along ϵ Stringer.
 End Diaphragms are to run between ϵ 's Bearing. Intermediate Diaphragms are spaced along ϵ of stringer adjacent to dimensions and run in a line perpendicular to this stringer.
 All Diaphragms in line have the same mark.
 For size and make-up of Stringers, see Sheets 23 & 24.
 For Bearing details, see Sheet No. 25.
 For size of Diaphragm and connection details, see Sheet 26 & 27.
 For Bill of Materials, see sh. 15.
 For Top of Beam Elevations, see sh. 42.

EAST APPROACH SPANS
 FRAMING PLANS-4
 FAI-80 OVER DES PLAINES RIVER
 STA 387+94.50

DESIGNED	P.H.
CHECKED	J.P.S.
DRAWN	M.M.
CHECKED	H.C.M.

FAI ROUTE 80
 SECTION 99-3D-E/F-P
 Scale: None

PROJECT
 WILL COUNTY
 Date: Dec. 28, 1960

BLAUVELT ENGINEERING CO.
 CONSULTING ENGINEERS
 WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3E/F	WILL	58	25
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	25

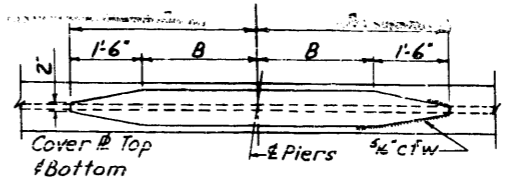


TABLE OF COVER PLATES

Stringer No.	Beam Size	Cover Plate Piers 24#26				Cover Plate Pier 25			
		Size	A	B	Length	Size	A	B	Length
CS20 & CS29	36 WF170	None				None			
CS21 & CS22	30 WF132	8" x 3/4"	8'-6"	7'-0"	17'-0"	8" x 7/8"	7'-6"	6'-0"	15'-0"
CS23 Thru CS28 Incl.	30 WF124	8" x 3/4"	8'-6"	7'-0"	17'-0"	8" x 7/8"	8'-0"	6'-6"	16'-0"
CS30 & CS37	36 WF170	None				None			
CS31 Thru CS35 Incl.	30 WF116	8" x 3/4"	8'-6"	7'-0"	17'-0"	8" x 7/8"	8'-0"	6'-6"	16'-0"
CS36	30 WF124	8" x 3/4"	8'-6"	7'-0"	17'-0"	8" x 7/8"	8'-0"	6'-6"	16'-0"

TOP OF BEAM ELEVATIONS

D.L. DEFLECTIONS

Stgr. No.	Bearing				Splice			Span 24			Span 25			Span 26			Span 27						
	Pier 23	Pier 24	Pier 25	Pier 26	E. Abut.	"1"	"2"	"3"	Pt. 2	Pt. 4	Pt. 6	Pt. 10	Pt. 12	Pt. 14	Pt. 16	Pt. 18	Pt. 20	Pt. 22	Pt. 24	Pt. 26	Pt. 28	Pt. 30	
CS20	565.46	563.87	561.96	559.88	558.22	563.58	561.57	560.22	4'	4'	18'	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
CS21	565.61	564.03	562.11	560.06	558.41	563.73	561.73	560.37	3/8"	7/8"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"
CS22	565.77	564.18	562.27	560.23	558.59	563.89	561.89	560.56															
CS23	565.98	564.37	562.44	560.40	558.76	564.06	562.06	560.73															
CS24	566.19	564.55	562.58	560.53	558.89	564.23	562.20	560.86															
CS25	566.40	564.69	562.64	560.59	558.95	564.36	562.25	560.92															
CS26	566.62	564.80	562.62	560.57	558.92	564.45	562.24	560.90															
CS27	566.83	564.87	562.53	560.48	558.83	564.49	562.14	560.81															
CS28	567.04	564.94	562.42	560.37	558.72	564.53	562.04	560.70	3/8"	7/8"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"
CS29	567.25	565.01	562.31	560.26	558.61	564.57	561.93	560.59	4'	4'	18'	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
CS30	565.83	564.30	562.45	560.40	558.76	564.01	562.07	560.73															
CS31	566.02	564.48	562.61	560.56	558.92	564.19	562.22	560.89	3/8"	7/8"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"
CS32	566.22	564.67	562.76	560.72	559.07	564.36	562.38	561.08															
CS33	566.42	564.85	562.92	560.87	559.23	564.53	562.53	561.20															
CS34	566.61	565.00	563.01	560.96	559.32	564.68	562.63	561.30															
CS35	566.81	565.14	563.04	560.99	559.35	564.80	562.66	561.32															
CS36	567.01	565.25	563.01	560.95	559.41	564.89	562.62	561.28	3/8"	7/8"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"	5/16"	9/16"	3/8"
CS37	567.17	565.33	562.93	560.85	559.20	564.96	562.52	561.18	4'	4'	18'	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"

Note: All Deflections are down.
Deflections are for weight of concrete slab only.

NOTES:
All Intermediate Diaphragms to be perpendicular to # CS29 or # CS36.
All Diaphragms in line have the same mark.
For sizes of Diaphragms & connections, see sheets 26 & 27.
For additional notes see Sheet 21.
For Bill of Materials see sh 15.

DEAD LOAD DEFLECTIONS

TOP OF SLAB ELEVATIONS

Stgr. No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CS20	566.09	565.89	565.69	565.49	565.29	565.09	564.89	564.70	564.50	564.27	564.04	563.80	563.57	563.34	563.10	562.85	562.59	562.33	562.07	561.81	561.55	561.29	561.03	560.77	560.51	560.31	560.10	559.89	559.68	559.46	559.27	559.06	558.85
CS21	564.21	564.04	563.84	563.64	563.44	563.25	563.05	562.85	562.65	562.44	562.24	562.04	561.83	561.63	561.42	561.21	561.00	560.79	560.58	560.37	560.16	559.95	559.74	559.53	559.32	559.11	558.90	558.69	558.48	558.27	558.06	557.85	557.64
CS22	566.40	566.20	566.00	565.80	565.60	565.40	565.21	565.01	564.81	564.58	564.35	564.11	563.88	563.64	563.41	563.15	562.90	562.65	562.39	562.13	561.88	561.63	561.37	561.11	560.86	560.65	560.45	560.25	560.04	559.84	559.63	559.43	559.22
CS23	566.61	566.41	566.20	566.00	565.80	565.60	565.40	565.20	565.00	564.76	564.52	564.29	564.05	563.81	563.57	563.32	563.07	562.81	562.56	562.30	562.05	561.79	561.54	561.28	561.03	560.82	560.62	560.41	560.21	560.01	559.80	559.60	559.39
CS24	566.82	566.61	566.40	566.20	565.99	565.79	565.59	565.38	565.18	564.93	564.69	564.44	564.20	563.96	563.71	563.46	563.21	562.95	562.70	562.44	562.18	561.93	561.67	561.42	561.16	560.96	560.75	560.55	560.34	560.14	559.93	559.73	559.52
CS25	567.03	566.81	566.60	566.38	566.17	565.96	565.74	565.53	565.32	565.08	564.85	564.61	564.37	564.13	563.89	563.64	563.39	563.14	562.89	562.64	562.39	562.14	561.89	561.64	561.39	561.14	560.89	560.64	560.39	560.14	559.89	559.64	559.39
CS26	567.25	567.01	566.78	566.56	566.33	566.10	565.88	565.65	565.43	565.15	564.88	564.60	564.33	564.06	563.78	563.50	563.23	562.95	562.68	562.41	562.14	561.87	561.60	561.33	561.06	560.79	560.52	560.25	560.00	559.73	559.46	559.19	
CS27	567.46	567.21	566.97	566.72	566.48	566.23	565.99	565.74	565.50	565.20	564.91	564.61	564.31	564.02	563.71	563.41	563.16	562.90	562.64	562.39	562.13	561.87	561.62	561.36	561.11	560.90	560.69	560.49	560.28	560.08	559.87	559.67	559.46
CS28	567.67	567.42	567.15	566.89	566.62	566.36	566.09	565.83	565.57	565.25	564.93	564.61	564.28	563.96	563.64	563.31	563.05	562.79	562.54	562.28	562.02	561.77	561.51	561.25	561.00	560.79	560.59	560.38	560.17	559.97	559.76	559.56	559.35
CS29	567.88	567.63	567.34	567.06	566.77	566.49	566.21	565.93	565.64	565.30	564.95	564.61	564.26	563.91	563.56	563.21	562.94	562.68	562.43	562.17	561.91	561.66	561.40	561.14	560.89	560.68	560.48	560.27	560.07	559.86	559.65	559.45	559.24
CS30	566.46	566.25	566.06	565.87	565.68	565.49	565.30	565.12	564.93	564.70	564.47	564.24	564.01	563.78	563.55	563.32	563.08	562.82	562.57	562.31	562.05	561.80	561.54	561.29	561.03	560.82	560.62	560.41	560.21	560.00	559.80	559.59	559.39
CS31	566.65	566.44	566.25	566.06	565.87	565.68	565.49	565.30	565.11	564.88	564.65	564.41	564.18	563.94	563.71	563.48	563.24	563.00	562.76	562.52	562.28	562.04	561.80	561.56	561.32	561.08	560.84	560.60	560.36	560.12	559.88	559.64	559.40
CS32	566.85	566.64	566.44	566.25	566.06	565.87	565.67	565.48	565.30	565.06	564.82	564.58	564.35	564.11	563.87	563.63	563.39	563.14	562.89	562.64	562.39	562.14	561.89	561.64	561.39	561.14	560.89	560.64	560.39	560.14	559.89	559.64	559.39
CS33	567.05	566.84	566.64	566.44	566.24	566.05	565.86	565.67	565.48	565.23	564.99	564.75	564.51	564.27	564.03	563.79	563.55	563.29	563.03	562.78	562.52	562.27	562.01	561.76	561.50	561.25	561.00	560.75	560.50	560.25	560.00	559.75	559.50
CS34	567.24	567.03	566.83	566.63	566.43	566.23	566.03	565.84	565.63	565.38	565.13	564.89	564.64	564.39	564.14	563.89	563.64	563.38	563.13	562.87	562.62	562.36	562.11	561.85	561.59	561.33	561.08	560.82	560.57	560.31	560.06	559.80	559.55
CS35	567.44	567.23	567.02	566.81	566.60	566.39	566.18	565.97	565.77	565.50	565.24	564.98	564.72	564.46	564.19	563.93	563.67	56															

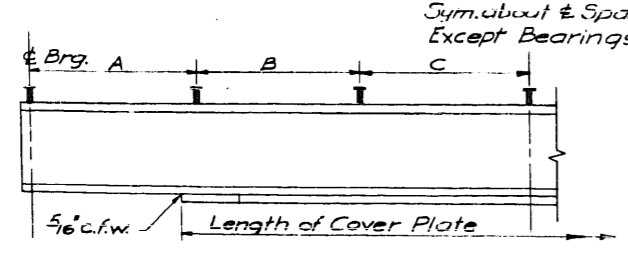
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E	WILL.	65	26
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
	99-3E		32	26

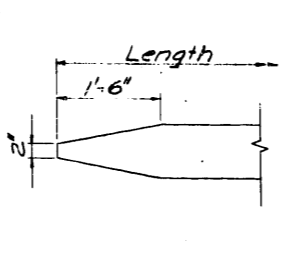
MARK	LENGTH C-C BRGS	SIZE -WF-	BOTTOM COVER PLATE	SHEAR CONNECTORS			DEAD LOAD DEFLECTION		BEARING TYPES	
				TYPE	A	B	C	1/4 PT	SPAN	EXP
S1	38'-3 1/2"	36 WF150	---	---	---	---	1/8"	1/8"	E1	
S2	38'-5"	30 WF116	---	---	---	---	3/16"	1/4"	E1	
S3	38'-6 1/2"		---	---	---	---				
S4	38'-8 1/2"		---	---	---	---				
S5	38'-9 1/2"		---	---	---	---				
S6	38'-11 1/2"		---	---	---	---				
S7	39'-1 1/2"	30 WF116	---	---	---	---	3/16"	1/4"	E1	
S8	39'-2 1/2"	36 WF150	---	---	---	---	1/8"	1/8"	E1	
S9	38'-7 1/2"	36 WF150	---	---	---	---	1/8"	1/8"	E1	
S10	38'-7 3/4"	30 WF116	---	---	---	---	3/16"	1/4"	E1	
S11	38'-8 1/2"		---	---	---	---				
S12	38'-8 1/2"		---	---	---	---				
S13	38'-9 1/2"		---	---	---	---				
S14	38'-9 1/2"		---	---	---	---				
S15	38'-10 1/2"	30 WF116	---	---	---	---	3/16"	1/4"	E1	
S16	38'-10 1/2"	36 WF150	---	---	---	---	1/8"	1/8"	E1	
S17	50'-0 1/2"	36 WF150	---	6'-0" x 6"	10'-0" x 8"	to #12"	1/4"	3/16"	E4	F4
S18	50'-2 1/2"	30 WF108	8'-3 1/2" x 36'-0"	10'-0" x 7 1/2"	8'-4" x 10"	to #14"	1/6"	3/16"	E2	F2
S19	50'-5 1/2"									
S20	50'-7 1/2"									
S21	50'-9 1/2"									
S22	50'-9 1/2"									
S23	51'-2 1/2"	30 WF108	8'-3 1/2" x 36'-0"	10'-0" x 7 1/2"	8'-4" x 10"	to #14"	1/6"	3/16"	E2	F2
S24	51'-4 1/2"	36 WF150	---	6'-0" x 6"	10'-0" x 8"	to #12"	1/4"	3/16"	E4	F4
S25	60'-5 1/2"	36 WF150	---	9'-9" x 6 1/2"	10'-0" x 8"	to #10 1/2"	1/2"	1/16"	E4	F4
S26	60'-8 1/2"	33 WF130	8'-1" x 43'-0"	11'-0" x 6"	11'-3" x 7 1/2"	to #10"	9/16"	3/4"	E3	F3
S27	60'-11 1/2"									
S28	61'-1 1/2"									
S29	61'-4 1/2"									
S30	61'-6 1/2"									
S31	61'-9 1/2"	33 WF130	8'-1" x 43'-0"	11'-0" x 6"	11'-3" x 7 1/2"	to #10"	9/16"	3/4"	E3	F3
S32	62'-0 1/2"	36 WF150	---	9'-9" x 6 1/2"	10'-0" x 8"	to #10 1/2"	1/2"	1/16"	E4	F4
S33	43'-0 1/2"	36 WF150	---	11'-0" x 6"	---	to #9 1/2"	1/8"	3/16"	E4	F4
S34	44'-5 1/2"	30 WF124	---	12'-0" x 8"	---	to #12"	5/16"	3/8"	E2	F2
S35	45'-10 1/2"	30 WF124	---	12'-0" x 8"	---	to #12"	5/16"	3/8"	E2	F2
S36	47'-3 1/2"	30 WF132	---	10'-0" x 7 1/2"	8'-4" x 10"	to #14"	5/16"	1/8"	E2	F2
S37	48'-8 1/2"	30 WF132	---	10'-0" x 7 1/2"	8'-4" x 10"	to #14"	5/16"	1/8"	E2	F2
S38	50'-1 1/2"	30 WF108	8'-3 1/2" x 36'-0"	10'-0" x 7 1/2"	8'-4" x 10"	to #14"	1/8"	3/16"	E2	F2
S39	51'-6 1/2"	30 WF108	8'-3 1/2" x 36'-0"	10'-0" x 7 1/2"	8'-4" x 10"	to #14"	1/8"	3/16"	E2	F2
S40	52'-11 1/2"	36 WF150	---	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S41	53'-2 1/2"	36 WF150	---	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S42	54'-7 1/2"	30 WF108	8'-1" x 41'-0"	11'-3" x 7 1/2"	10'-10" x 10"	to #15"	1/2"	3/4"	E2	F2
S43	56'-0 1/2"	30 WF108	8'-1" x 41'-0"	11'-3" x 7 1/2"	10'-10" x 10"	to #15"	1/2"	3/4"	E2	F2
S44	57'-4 1/2"	30 WF116	8'-1 1/2" x 43'-6"	12'-8" x 8"	9'-0" x 12"	to #15"	9/16"	13/16"	E2	F2
S45	58'-9 1/2"	30 WF116	8'-1 1/2" x 43'-6"	12'-8" x 8"	9'-0" x 12"	to #15"	9/16"	13/16"	E2	F2
S46	60'-2 1/2"	33 WF130	8'-1" x 43'-6"	11'-0" x 6"	11'-3" x 7 1/2"	to #10"	9/16"	3/4"	E3	F3
S47	61'-7 1/2"	33 WF130	8'-1" x 43'-6"	11'-0" x 6"	11'-3" x 7 1/2"	to #10"	9/16"	3/4"	E3	F3
S48	62'-11 1/2"	36 WF150	---	12'-0" x 6"	12'-0" x 8"	to #10 1/2"	1/2"	3/4"	E4	F4
S49	53'-11 1/2"	36 WF150	---	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S50	53'-10 1/2"	30 WF108	8'-7 1/2" x 38'-6"	10'-0" x 7 1/2"	9'-2" x 10"	to #14"	1/6"	3/8"	E2	F2

See sheet # 50
(Detail at L34)

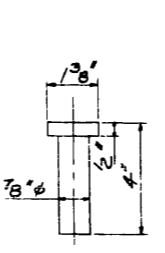
MARK	LENGTH C-C BRGS	SIZE -WF-	BOTTOM COVER PLATE	SHEAR CONNECTORS			DEAD LOAD DEFLECTION		BEARING TYPES		
				TYPE	A	B	C	1/4 PT	SPAN	EXP	FIX
S51	53'-10 1/2"	30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" x 7 1/2"	9'-2" x 10"	to #14"	1/6"	3/8"	E2	F2
S52											
S53											
S54											
S55		30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" x 7 1/2"	9'-2" x 10"	to #14"	1/6"	3/8"	E2	F2
S56	53'-10 1/2"	36 WF150	---	I	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S57	53'-10 1/2"	36 WF150	---	I	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S58	53'-9 1/2"	30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" x 7 1/2"	9'-2" x 10"	to #14"	1/6"	3/8"	E2	F2
S59											
S60											
S61											
S62											
S63		30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" x 7 1/2"	9'-2" x 10"	to #14"	1/6"	3/8"	E2	F2
S64	53'-9 1/2"	36 WF150	---	I	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S65	71'-0 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S66	70'-3"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S67	69'-5 1/2"										
S68	68'-8 1/2"										
S69	67'-11 1/2"										
S70	67'-1 1/2"										
S71	66'-4 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S72	65'-7 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S73	61'-6 1/2"	36 WF150	---	I	9'-9" x 6 1/2"	10'-0" x 8"	to #10 1/2"	1/2"	1/16"	E4	F4
S74	60'-9 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" x 6"	11'-3" x 7 1/2"	to #10"	9/16"	3/4"	E3	F3
S75	60'-0 1/2"										
S76	59'-2 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" x 6"	11'-3" x 7 1/2"	to #10"	9/16"	3/4"	E3	F3
S77	58'-5 1/2"	30 WF116	8'-1 1/2" x 43'-6"	II	12'-8" x 8"	9'-0" x 12"	to #15"	9/16"	13/16"	E2	F2
S78	57'-8 1/2"										
S79	56'-11"	30 WF116	8'-1 1/2" x 43'-6"	II	12'-8" x 8"	9'-0" x 12"	to #15"	9/16"	13/16"	E2	F2
S80	56'-1 1/2"	36 WF150	---	I	10'-0" x 6"	10'-0" x 8"	to #10 1/2"	5/16"	1/8"	E4	F4
S81	67'-5 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S82	67'-8 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S83	67'-11 1/2"										
S84	68'-2 1/2"										
S85	68'-5 1/2"										
S86	68'-8 1/2"										
S87	68'-11 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S88	69'-2 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" x 6"	12'-0" x 8"	to #11"	1/6"	3/8"	E4	F4
S89	70'-6 1/2"	36 WF150	10'-1" x 50'-6"	I	12'-0" x 6"	12'-6" x 7 1/2"	to #10"	11/16"	1"	E4	F4
S90	70'-9 1/2"	36 WF150	10'-1" x 50'-6"	I	12'-0" x 6"	12'-6" x 7 1/2"	to #10"	11/16"	1"	E4	F4
S91	71'-0 1/2"										
S92	71'-3 1/2"										
S93	71'-6 1/2"										
S94	71'-9 1/2"										
S95	72'-0 1/2"	36 WF150	10'-1" x 50'-6"	I	12'-0" x 6"	12'-6" x 7 1/2"	to #10"	11/16"	1"	E4	F4
S96	72'-3 1/2"	36 WF150	10'-1" x 50'-6"	I	12'-0" x 6"	12'-6" x 7 1/2"	to #10"	11/16"	1"	E4	F4
S97	67'-5 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" x 8"	10'-10" x 10"	to #14"	11/16"	1 1/8"	E4	F4
S98	67'-8 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" x 8"	10'-10" x 10"	to #14"	11/16"	1 1/8"	E4	F4
S99	67'-11 1/2"										
S100	68'-2 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" x 8"	10'-10" x 10"	to #14"	11/16"	1 1/8"	E4	F4



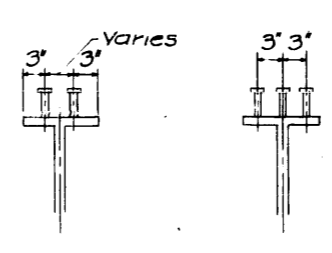
PITCH OF SHEAR CONNECTORS & COVER PLATE LENGTH



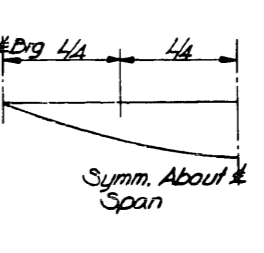
DETAIL OF END OF BOTTOM COVER PLATE



STUD DETAIL



TYPE I TYPE II SHEAR CONNECTOR



DEAD LOAD DEFLECTION DIAGRAM

For Bill of Materials See Sht. 15E App. # Sht. 7W App. Beams and Cover Plates of Stringers noted thus (*) to be of Structural Steel for Welding, A.S.T.M. A375
** Dead Load Deflections are due to Weight of Concrete Slab only

EAST & WEST APPROACH SPANS
STRINGER TABLES-I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

DESIGNED	R.H.
CHECKED	J.T.L.
DRAWN	M.C.
CHECKED	H.C.M.

FAI ROUTE 80 SECTION 99-3E F-P	PROJECT WILL COUNTY Date: Dec. 28, 1960
Scale:	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS WOODBURY, N.J. NEW YORK, N.Y. CHRYSTAL LAKE, ILL.

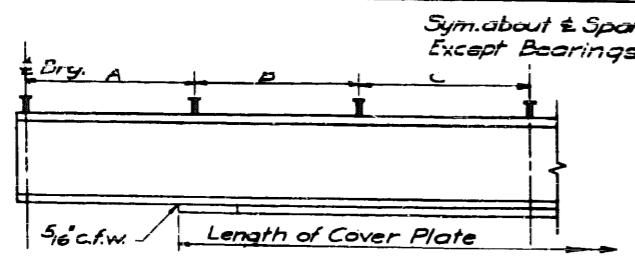
Revised: Lengths c.-c. Brgs. for Mark 73 thru 80 were shortened by 1 1/2" NRC 10/28/63

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

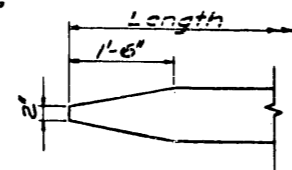
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-30	52	27		24
SHEET NO. 24				
10 SHEETS				

MARK	LENGTH C-C BRGS	SIZE -WF-	BOTTOM COVER PLATE	SHEAR CONNECTORS			** DEAD LOAD DEFLECTION		BEARING TYPES		
				TYPE	A	B	C	1/4 PT	SPAN	EXP	FIX
S101	67'-3 1/2"	36 WF150	10'-1" x 48'-0"	I	12'-0" @ 8"	11'-3" @ 10"	to @ 16"	9/16"	3/4"	E4	F4
S102	67'-5 1/2"	36 WF150	10'-1" x 48'-0"	II	12'-9" @ 8"	11'-8" @ 10"	to @ 16"	5/8"	7/8"	E4	F4
S103	67'-8 1/2"	36 WF150	10'-1" x 48'-0"	II	12'-9" @ 8"	11'-8" @ 10"	to @ 16"	5/8"	7/8"	E4	F4
S104	67'-1 1/2"	36 WF160	10'-1 1/2" x 48'-6"	I	14'-0" @ 8"	10'-10" @ 10"	to @ 14"	5/8"	3/4"	E4	F4
S105	67'-4 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" @ 8"	10'-10" @ 10"	to @ 14"	11/16"	13/16"	E4	F4
S106	67'-7 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" @ 8"	10'-10" @ 10"	to @ 14"	11/16"	13/16"	E4	F4
S107	67'-11 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	3/4"	E4	F4
S108	67'-2 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	3/4"	E4	F4
S109	67'-2 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	3/4"	E4	F4
S110	71'-2 1/2"	36 WF160	10'-1 1/2" x 51'-0"	II	12'-0" @ 8"	10'-1" @ 11"	to @ 16"	5/8"	1 1/8"	E4	F4
S111	70'-7 1/2"	36 WF160	10'-1 1/2" x 51'-0"	II	12'-0" @ 8"	10'-1" @ 11"	to @ 16"	1"	1 1/8"	E4	F4
S112	70'-2 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	3/4"	E4	F4
S113	69'-8 1/2"										
S114	69'-2 1/2"										
S115	68'-8 1/2"										
S116	68'-5"										
S117	67'-9 1/2"										
S118	67'-3 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	3/4"	E4	F4
S119	66'-9 1/2"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	3/4"	E4	F4
S120	64'-3 1/2"	36 WF150	10'-1 1/2" x 41'-6"	I	12'-0" @ 8"	12'-0" @ 8"	to @ 10 1/2"	5/8"	3/4"	E4	F4
S121	63'-9 1/2"	33 WF130	9'-1" x 47'-0"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	11/16"	15/16"	E3	F3
S122	63'-3 1/2"										
S123	62'-10 1/2"										
S124	62'-4 1/2"	33 WF130	9'-1" x 47'-0"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	11/16"	15/16"	E3	F3
S125	61'-10 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" @ 6"	11'-3" @ 7 1/2"	to @ 10"	9/16"	5/8"	E3	F3
S126	61'-4 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" @ 6"	11'-3" @ 7 1/2"	to @ 10"	9/16"	5/8"	E3	F3
S127	60'-11 1/2"	36 WF150		I	9'-9" @ 6 1/2"	10'-0" @ 8"	to @ 10 1/2"	1 1/8"	1 1/8"	E4	F4
S128	49'-10 1/2"	36 WF150		I	6'-0" @ 6"	10'-0" @ 8"	to @ 12"	1/4"	5/8"	E4	F4
S129	51'-11 1/2"	30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" @ 7 1/2"	9'-2" @ 10"	to @ 14"	7/16"	5/8"	E2	F2
S130	54'-0 1/2"	30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" @ 7 1/2"	9'-2" @ 10"	to @ 14"	7/16"	5/8"	E2	F2
S131	56'-1 1/2"	30 WF108	8'-1" x 41'-0"	II	11'-3" @ 7 1/2"	10'-10" @ 10"	to @ 15"	1/2"	3/4"	E2	F2
S132	58'-5 1/2"	30 WF116	8'-1 1/2" x 43'-6"	II	12'-8" @ 8"	9'-0" @ 12"	to @ 15"	9/16"	13/16"	E2	F2
S133	60'-5 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" @ 6"	11'-3" @ 7 1/2"	to @ 10"	9/16"	5/8"	E3	F3
S134	62'-7 1/2"	33 WF130	9'-1" x 47'-0"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	11/16"	15/16"	E3	F3
S135	64'-9 1/2"	33 WF130	9'-1" x 47'-0"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	11/16"	15/16"	E3	F3
S136	66'-11 1/2"	36 WF150	10'-1 1/2" x 47'-0"	I	9'-9" @ 6 1/2"	10'-0" @ 7 1/2"	to @ 10"	5/8"	3/4"	E4	F4
S137	47'-8 1/2"	36 WF150		I	6'-0" @ 6"	10'-0" @ 8"	to @ 12"	1/4"	5/8"	E4	F4
S138	49'-10 1/2"	30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" @ 7 1/2"	8'-4" @ 10"	to @ 14"	7/16"	5/8"	E2	F2
S139	52'-1 1/2"	30 WF108	8'-7 1/2" x 38'-6"	II	10'-0" @ 7 1/2"	9'-2" @ 10"	to @ 14"	7/16"	5/8"	E2	F2
S140	54'-4 1/2"	30 WF108	8'-1" x 41'-0"	II	11'-3" @ 7 1/2"	10'-10" @ 10"	to @ 15"	1/2"	3/4"	E2	F2
S141	56'-7 1/2"	30 WF116	8'-1 1/2" x 43'-6"	II	12'-8" @ 8"	9'-0" @ 12"	to @ 15"	9/16"	13/16"	E2	F2
S142	59'-0 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" @ 6"	11'-3" @ 7 1/2"	to @ 10"	9/16"	5/8"	E3	F3
S143	61'-5 1/2"	33 WF130	8'-1" x 43'-6"	I	11'-0" @ 6"	11'-3" @ 7 1/2"	to @ 10"	9/16"	5/8"	E3	F3
S144	64'-11 1/2"	33 WF130	9'-1" x 47'-0"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	11/16"	15/16"	E3	F3
S145	66'-4 1/2"	36 WF150	10'-1 1/2" x 47'-0"	I	9'-9" @ 6 1/2"	10'-0" @ 7 1/2"	to @ 10"	5/8"	3/4"	E4	F4
S146	71'-4 1/2"	36 WF160	10'-1 1/2" x 51'-0"	II	12'-0" @ 8"	10'-1" @ 11"	to @ 16"	5/8"	1 1/8"	E4	F4
S147	71'-4 1/2"	36 WF160	10'-1 1/2" x 51'-0"	II	12'-0" @ 8"	10'-1" @ 11"	to @ 16"	5/8"	1 1/8"	E4	F4
S148	71'-4 1/2"	36 WF160	10'-1 1/2" x 51'-0"	II	12'-0" @ 8"	10'-1" @ 11"	to @ 16"	5/8"	1 1/8"	E4	F4
S149	71'-4 1/2"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"	E4	F4
S150	71'-4 1/2"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"	E4	F4

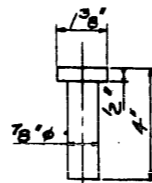
MARK	LENGTH C-C BRGS	SIZE -WF-	BOTTOM COVER PLATE	SHEAR CONNECTORS			** DEAD LOAD DEFLECTION		BEARING TYPES		
				TYPE	A	B	C	1/4 PT	SPAN	EXP	FIX
S151	71'-4"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"	E4	F4
S152	71'-4"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"	E4	F4
S153	71'-4"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"	E4	F4
S154	68'-10"	36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	9/16"	3/4"	E4	F4
S155		36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	15/16"	E4	F4
S156											
S157		36 WF150	10'-1" x 49'-0"	I	13'-0" @ 6"	12'-0" @ 8"	to @ 11"	5/8"	15/16"	E4	F4
S158	68'-10"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" @ 8"	10'-10" @ 10"	to @ 14"	11/16"	15/16"	E4	F4
S159	68'-10 1/2"										
S160	68'-10 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" @ 8"	10'-10" @ 10"	to @ 14"	11/16"	15/16"	E4	F4
S161	68'-11 1/2"	36 WF160	10'-1 1/2" x 48'-6"	II	14'-0" @ 8"	10'-10" @ 10"	to @ 14"	11/16"	15/16"	E4	F4
S162	70'-9"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"	E1	F1
S163		36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"		
S164											
S165											
S166											
S167											
S168		36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"		
S169	70'-9"	36 WF150	10'-1" x 50'-6"	I	12'-0" @ 6"	12'-6" @ 7 1/2"	to @ 10"	5/8"	1 1/8"		
S170	79'-3"	36 WF194	10'-1 1/2" x 58'-0"	I	11'-11" @ 6 1/2"	12'-6" @ 7 1/2"	to @ 10"	15/16"	15/16"		
S171		36 WF194	10'-1 1/2" x 58'-0"	I	11'-11" @ 6 1/2"	12'-6" @ 7 1/2"	to @ 10"	7/8"	1 1/4"		
S172											
S173											
S174											
S175											
S176	79'-3"	36 WF194	10'-1 1/2" x 58'-0"	I	11'-11" @ 6 1/2"	12'-6" @ 7 1/2"	to @ 10"	7/8"	1 1/4"		
S177	79'-3 1/2"	36 WF194	10'-1 1/2" x 58'-0"	I	11'-11" @ 6 1/2"	12'-6" @ 7 1/2"	to @ 10"	15/16"	15/16"	E1	F1



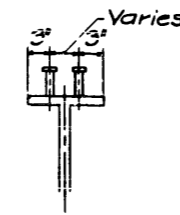
PITCH OF SHEAR CONNECTORS
& COVER PLATE LENGTH



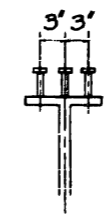
DETAIL OF END OF
BOTTOM COVER PLATE



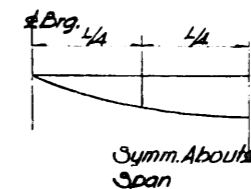
STUD DETAIL



TYPE I
SHEAR CONNECTOR



TYPE II
SHEAR CONNECTOR



DEAD LOAD
DEFLECTION
DIAGRAM

Beams and Cover Plates of Stringers
Noted thus (*) to be of Structural Steel
for Welding, A.S.T.M. A 373
** Dead Load Deflections are due to
Weight of Concrete Slab only

EAST & WEST APPROACH SPANS
STRINGER TABLES-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	R.H.
CHECKED	J.T.L.
DRAWN	M.C.
CHECKED	H.C.M.

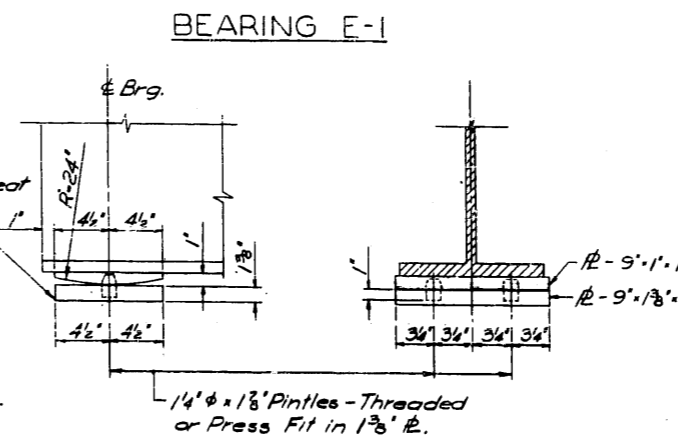
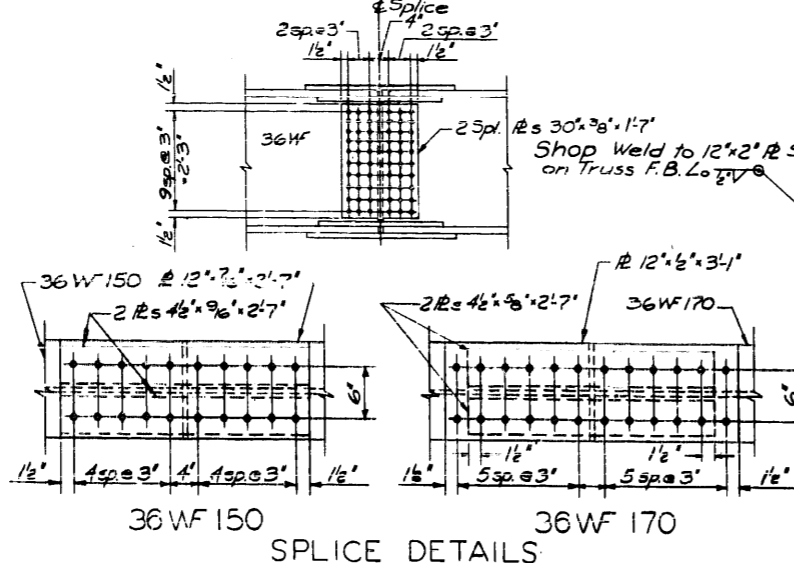
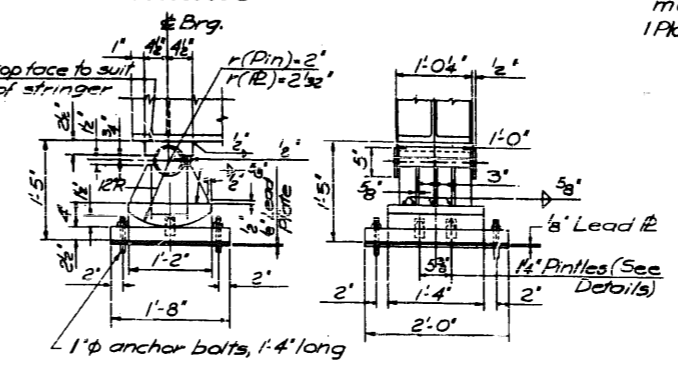
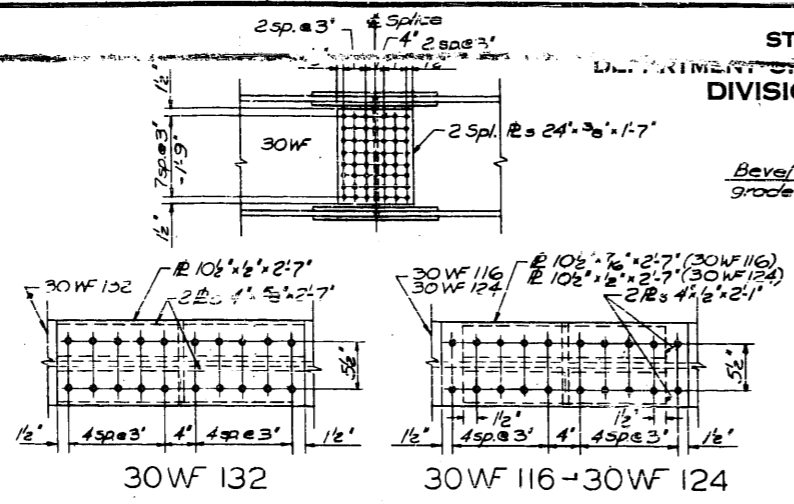
FAI ROUTE 80
SECTION 99-3E4F-P
Scale:
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRISTAL LAKE, ILL.

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

STATE OF ILLINOIS
DEPARTMENT OF HIGHWAYS & BUILDINGS
DIVISION OF HIGHWAYS

Note: All t_f values in Table of Fills are in inches. This greater than 1 in thickness may be made up of more than 1 plate.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3P	99-3P	ILLINOIS	62	25



FIXED BEARINGS								
Type	t_b	t_f	A	B	C	D	E	c.f.w.
F2	3/4"	1 3/8"	11 1/2"	19"	3"	5 1/2"	4 1/2"	1/2"
F3	3/4"	1 3/8"	12 1/2"	20"	3"	6 1/2"	4 1/2"	1/2"
F4	1"	1 3/8"	13 1/2"	21"	3 1/2"	6 1/2"	4 1/2"	5/8"
F5	3/4"	1"	10 1/2"	18"	2 1/2"	5 1/2"	4 1/2"	1/2"
F6	1 1/2"	1 3/8"	12"	19 1/2"	3"	6"	5"	1/2"
F7	1"	1 3/8"	13 1/2"	21"	3 1/2"	6 1/2"	4 1/2"	5/8"

EXPANSION BEARINGS								
Type	t_b	t_f	A	B	C	D	E	c.f.w.
E2	1 3/8"	1"	11 1/2"	19"	3"	5 1/2"	4 1/2"	3/8"
E3	1 3/8"	1"	12 1/2"	20"	3"	6 1/2"	4 1/2"	1/2"
E4	1 3/8"	1"	13"	20 1/2"	3 1/4"	6 1/2"	4 1/2"	1/2"
E5	1 3/8"	1"	10 1/2"	18"	2 1/2"	5 1/2"	4 1/2"	1/2"
E6	2"	1 3/8"	12"	19 1/2"	3"	6"	5"	5/8"
E7	1 7/8"	1 3/8"	13 1/2"	21"	3 1/2"	6 1/2"	4 1/2"	5/8"

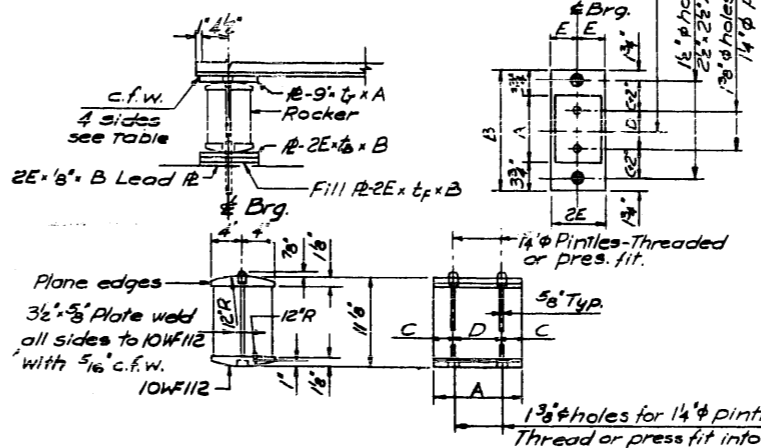
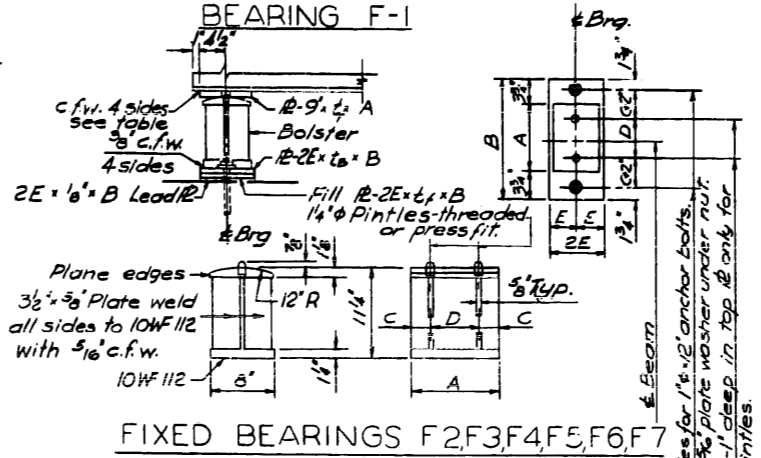


TABLE OF FILLS											
Pier No.	Strg. MK	t_f	Pier No.	Strg. MK	t_f	Pier No.	Strg. MK	t_f	Pier No.	Strg. MK	t_f
N.W. Abut.	CS 5	1/4	16N	S 49	5/8	N.E. Abut.	CS 25	5/8	145	S 25	7/16
1N	CS 3	7/8	W.Side	S 56	1/2		CS 26	2/8	W.Side	S 30	7/16
	CS 5	9/16	17N	S 65	1/4					S 31	1/16
	CS 6	7/8	W.Side	S 66	1/2	S.W. Abut.	CS 14	9/16		S 32	1/2
2N	CS 3	13/16		S 67	7/16		CS 15	1/4	145	S 47	11/16
	CS 4	5/16		S 68	1/2	15	CS 13	7/8	E.Side	S 55	3/8
	CS 5	1/2		S 69	7/16		CS 14	5/16	155	S 41	3/8
3N	CS 4	9/16		S 70	1/2	25	CS 13	7/8	W.Side	S 42	5/16
W.Side	CS 5	9/16		S 71	1/2		CS 14	1/4		S 43	3/8
	S 128	3/4		S 72	7/16	35	CS 14	3/4		S 44	3/16
3N	S 129	5/16	18N	S 81	11/16	W.Side	CS 15	9/16		S 45	1/4
E.Side	S 130	6/16	W.Side	S 82	5/8	35	S 137	7/16		S 48	1/2
	S 133	2 1/16		S 83	11/16	E.Side	S 145	3/8	165	S 57	7/16
	S 134	2 1/16		S 84	7/8					S 61	3/8
	S 136	1/2		S 85	7/16					S 62	11/16
4N	S 137	5/8		S 86	1/2	45	S 141	9/16		S 63	3/8
W.Side	S 132	7/16		S 87	1/2	W.Side	S 142	13/16		S 64	7/16
4N	S 148	1/2		S 88	7/16	45	S 154	7/16	175	S 73	5/8
E.Side	S 149	3/4		S 89	7/16	E.Side	S 158	9/16	W.Side	S 80	5/8
	S 153	3/16	19N	S 97	1/4		S 159	1/4	185	S 89	7/16
5N	S 149	3/16	W.Side	S 98	11/16		S 161	3/16	W.Side	S 90	7/16
W.Side				S 100	5/16					S 91	1/2
5N	S 164	13/16		S 85	1/2	55	S 158	5/8		S 92	1/2
E.Side	S 165	13/16		S 86	7/16	W.Side	S 159	7/16		S 92	7/16
				S 87	1/2	55	S 174	5/8		S 93	1/2
				S 88	7/16	E.Side	S 175	1/2		S 94	1/2
11N	S 17	3/8		S 88	7/16					S 95	7/16
W.Side	S 18	5/16	19N	S 83	3/16					S 96	1/2
	S 19	1/4	E.Side			105	S 26	1/8		S 96	1/2
	S 20	5/16		S 101	11/16	E.Side	S 27	1/8	195	S 89	7/16
	S 21	1/4	20N	S 102	3/4		S 28	3/16	W.Side	S 90	7/16
	S 22	5/16	W.Side	S 103	13/16		S 29	3/16		S 91	1/2
	S 23	1/4		S 83	5/8		S 30	3/16		S 92	1/2
	S 24	3/16		S 84	7/16		S 31	3/16		S 93	7/16
12N	S 17	5/16		S 85	1/2	115	S 25	5/16		S 94	1/2
W.Side	S 18	5/16		S 86	7/16	W.Side	S 26	1/4		S 95	7/16
	S 19	3/8		S 87	1/2		S 27	5/16		S 96	7/16
	S 20	5/16		S 88	7/16		S 28	1/4		S 96	7/16
	S 21	3/8		S 88	7/16		S 28	1/4		S 96	7/16
	S 22	5/16	21N	S 104	3/8		S 29	9/16	205	S 89	7/16
	S 23	3/8	W.Side	S 105	11/16		S 30	1/4	W.Side	S 91	1/2
	S 24	1/4		S 107	3/8		S 31	13/16		S 92	1/2
	S 24	1/4		S 84	7/16		S 32	1/4		S 93	7/16
13N	S 17	3/8		S 85	1/2	115	S 31	7/8		S 94	1/2
W.Side	S 18	3/8		S 86	7/16	E.Side	S 25	5/16		S 95	7/16
	S 19	5/16		S 87	1/2	125	S 25	5/16		S 96	7/16
	S 20	3/8		S 88	7/16	W.Side	S 26	3/8	215	S 89	7/16
	S 21	5/16	21N	S 82	1/4		S 27	5/16	W.Side	S 90	1/2
	S 22	3/8	E.Side				S 28	3/8		S 91	7/16
	S 23	5/16		S 108	3/4		S 29	5/16		S 92	1/2
	S 24	5/16	W.Side	S 109	9/16		S 30	3/8		S 93	7/16
14N	S 17	7/16		S 81	1/2		S 31	1		S 94	1/2
W.Side	S 18	3/4		S 82	7/16		S 32	3/8		S 95	7/16
	S 19	3/4		S 83	1/2	125	S 31	11/16		S 96	7/16
	S 20	7/8		S 84	7/16	E.Side			225	S 89	7/16
	S 21	13/16		S 85	1/2	135	S 25	7/16	W.Side	S 96	5/16
	S 22	7/16		S 86	7/16	W.Side	S 26	3/8		S 120	1/16
	S 23	3/8		S 87	1/2		S 27	7/16	W.Side	S 127	11/16
	S 24	3/8		S 88	1/16		S 28	3/8	255	CS 34	7/16
15N	S 33	7/16	23N	S 110	5/16		S 29	7/16		CS 35	13/16
W.Side	S 38	3/8	W.Side	S 119	9/16		S 30	3/8	265	CS 34	7/16
	S 39	3/8	24N	CS 28	13/16		S 31	1/4		CS 35	3/4
	S 40	1/2	25N	CS 25	11/16		S 32	3/8	S.F. Abut.	CS 35	5/16
15N	S 52	1/8		CS 26	7/16	135	S 31	7/8			
E.Side	S 53	1/8	26N	CS 25	3/4	E.Side					

DESIGNED	M.M.
CHECKED	H.C.M.
DRAWN	M.M.
CHECKED	H.C.M.

DETAIL OF PINTLE

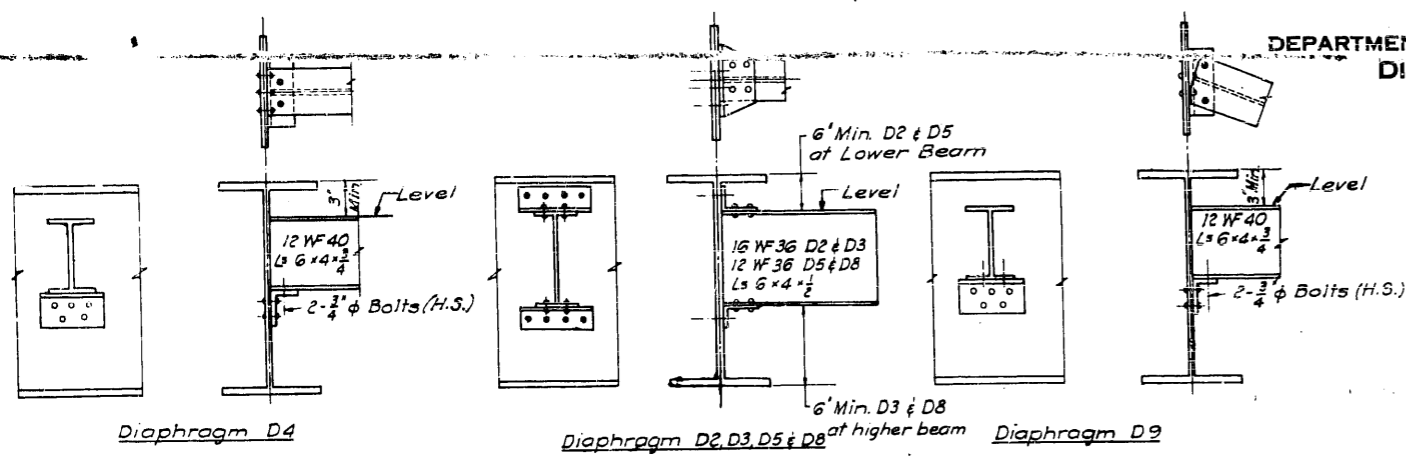
EXPANSION BEARINGS E2, E3, E4, E5, E6, E7
Note: Anchor bolts for bearings requiring fills more than 1" in thickness shall be increased in length in increments of 1" for each 1" or fraction of fill thickness

APPROACH SPANS-STANDARD DETAILS-I
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50
FAI ROUTE 80
SECTION 99-3E1F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	36
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT:	66	29
	99-3P		52	29

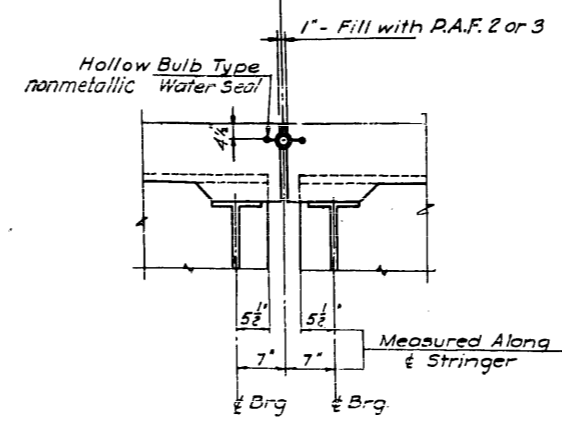
SHEET NO. 26
70 SHEETS



Diaphragm Mark	No REQD.
D1	50
D2	378
D3	102
D4	188
D5	222
D7	56
D8	144
D9	28
D10	222

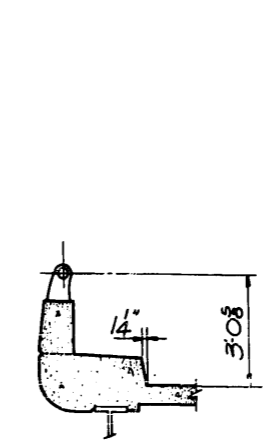
DIAPHRAGM DETAILS

Notes: For diaphragms D7 see ED2 Sht 8
For diaphragms D1 & D10 see ED3 & ED4, Sht 27
All diaphragm connections with $\frac{3}{4}$ " ϕ rivets or H.S. bolts. $\frac{13}{16}$ " ϕ open holes.



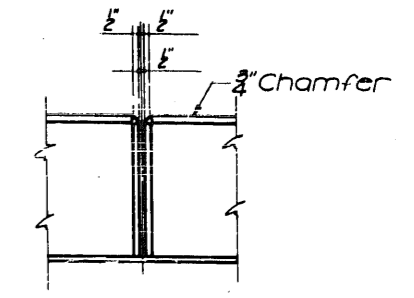
FIXED JOINT

At Piers 4, 11, 13, 15, 17, 19 & 21
Note: Cost of water seal and sealing compound to be incidental to Contract.
Waterseals to extend to 24" of water table on each side of deck.



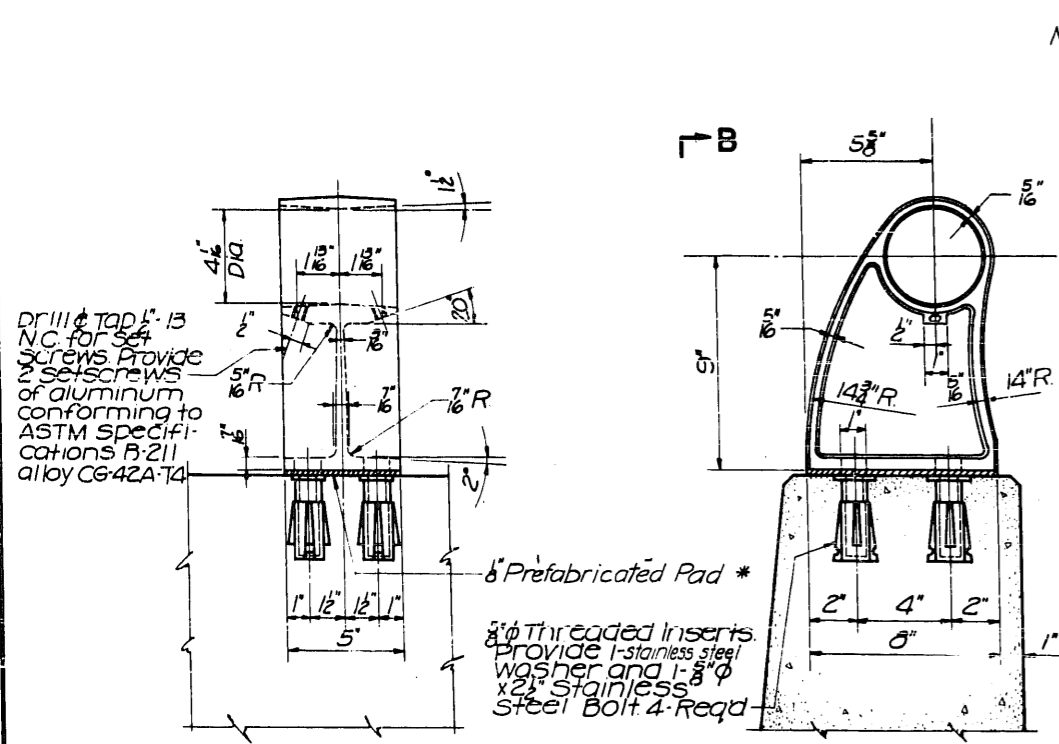
SEC THRU CURB

Two component non-staining gray $\frac{1}{2}$ " sealing compound with poly-sulfide liquid polymers - gun grade with primer.
2" Preformed cork-asphalt joint filler ASTM designation D-544-49 Type I. Cost to be incidental to contract.



PARAPET JOINT DETAILS

Between Piers

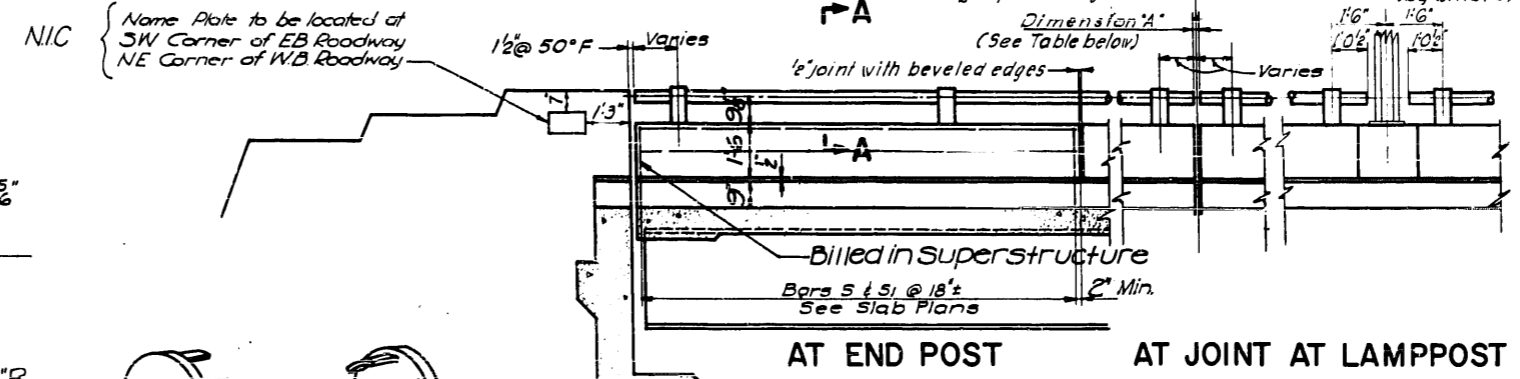


DRILL & TAP 1-13 NC for 5/8" screws. Provide 2 setscrews of aluminum conforming to ASTM specifications B-211 alloy CG-42A-74.

DESIGNED	M.M.
CHECKED	H.C.M.
DRAWN	S.E.F.
CHECKED	H.C.M.

RAIL POST DETAILS

*For each post provide 1" prefabricated pad. (See Article 54.9(f) of the Standard Specifications. Cost to be incidental to the contract.



ELEVATION

Pier No.	Parapet	Pipe
3, 12, 14, 16, 18, 20, 22, 23	1 1/2"	1 1/2"
4, 11, 13, 15, 17, 19, 21	1"	1"
5, 10	3 1/2"	3 1/2"

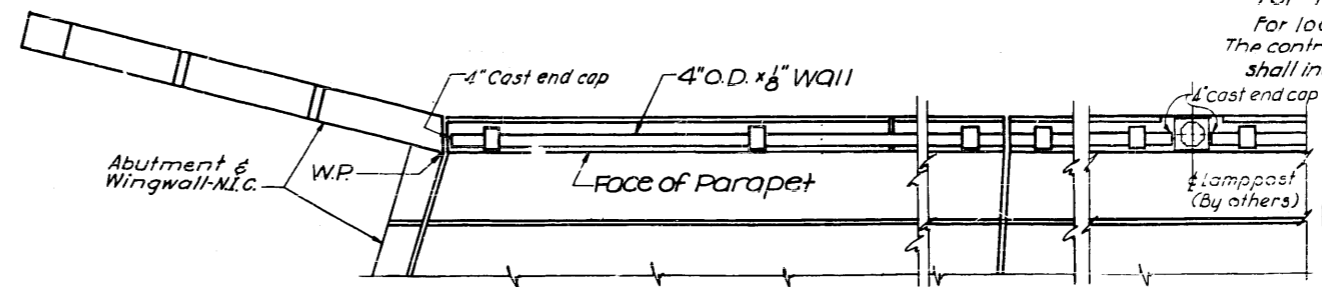
NOTES

All Posts shall be placed normal to parapet.
All Posts shall conform to ASTM Specification B-106 alloy 56-706-76.
All Rail Tubing shall conform to ASTM Specification B-235 alloy 65-11A-76.
Alclad Washers shall be made from sheet conforming to ASTM Specification B-209 alloy clad CG-42A-74.
Rail tubing may be continuous for a maximum of three (3) panels.
For Rail Spacing, see Sheets 28, 29, 30.
For location of lampposts, see Sheets 28, 29, 30.
The contract unit price per linear foot for aluminum handrail shall include the furnishing, fabrication, transportation and erection of all material.

Caps to be provided at each end of each approach and at Exp. Dam ED-2

CAST END CAP

Drive fit type - 50 Required
Incidental to item Aluminum Handrail.



PLAN

APPROACH SPANS
STANDARD DETAILS-2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80 SECTION 99-3D-E(F-P) PROJECT WILL COUNTY
Scale: No Scale Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

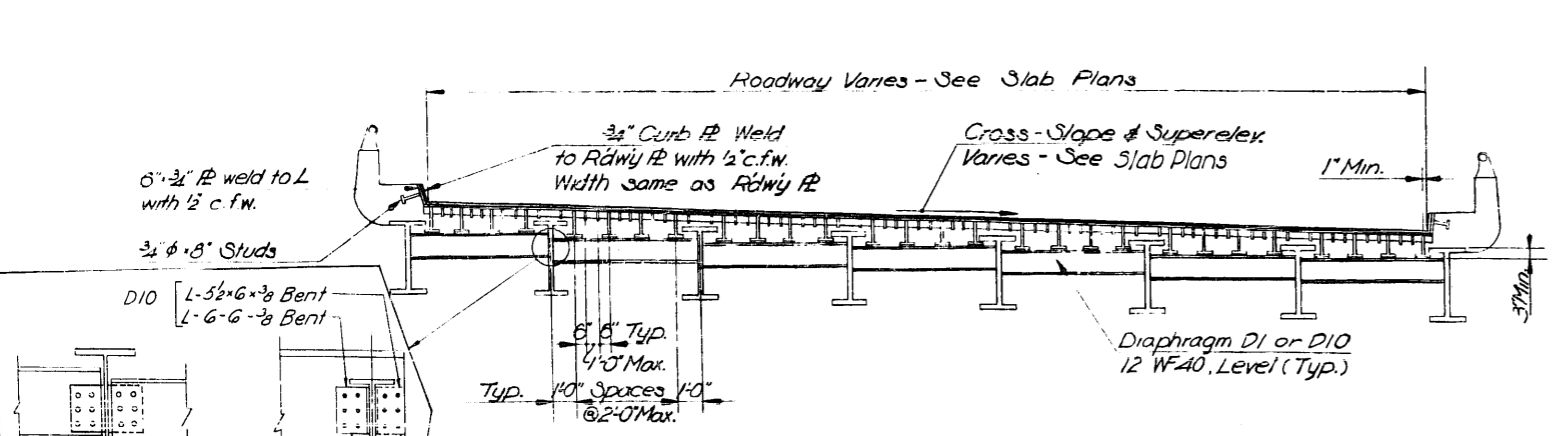
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E4F	WILL	58	27
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		65	30
			62	30

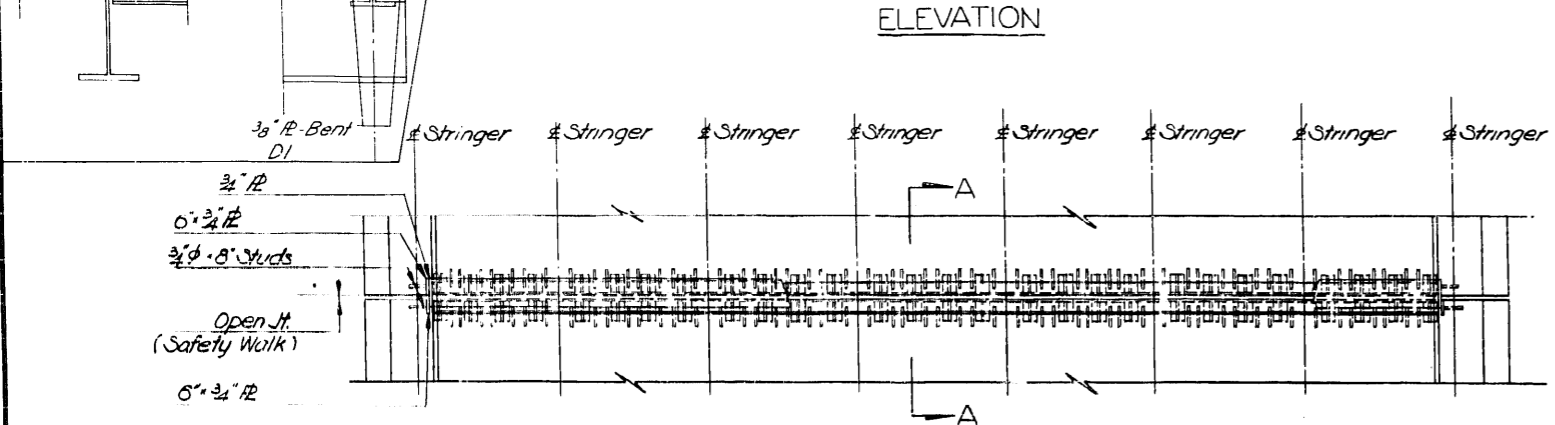
SHEET NO. 27
70 SHEETS

TABLE OF VARYING DIMENSION - V

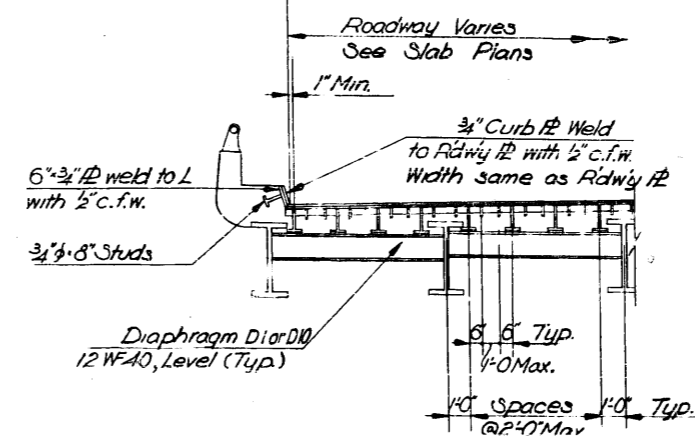
Temp. °F	NW Abut. SW Abut.	3 1/2 - 16N 22 1/2 S	12S-14S 16S-23 1/2 S	14N	16S-20S
10°	2 1/2"	2 3/8"	2 3/8"	2 1/8"	2 3/8"
20°	2 1/2"	2 1/8"	2 3/8"	1 3/4"	2 3/8"
30°	2"	1 3/4"	1 15/16"	1 3/8"	1 3/8"
40°	1 7/8"	1 23/32"	1 23/32"	1 13/16"	1 7/8"
50°	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"
60°	1 5/8"	1 23/32"	1 23/32"	1 11/16"	1 5/8"
70°	1 1/2"	1 13/32"	1 9/16"	1 13/32"	1 1/2"
80°	1 1/2"	1 7/8"	1 13/32"	1 13/32"	1 1/2"
90°	1 1/4"	1 13/32"	1 3/8"	1 1/8"	1 1/4"
100°	1 1/8"	1 13/32"	1 3/32"	1 3/8"	1 1/8"



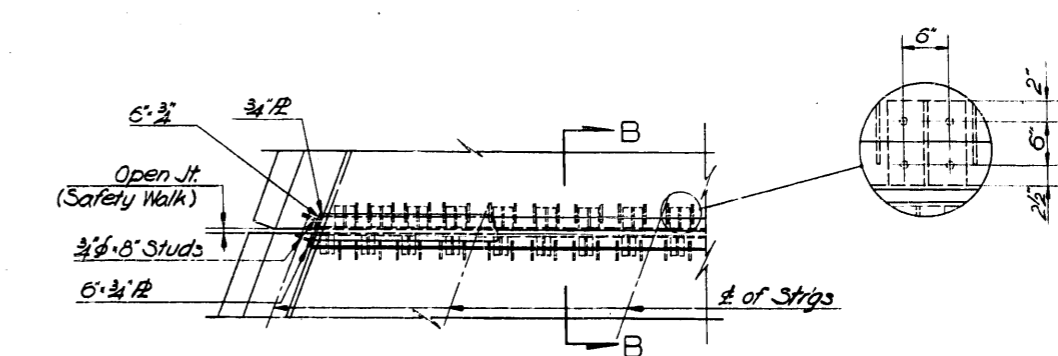
ELEVATION



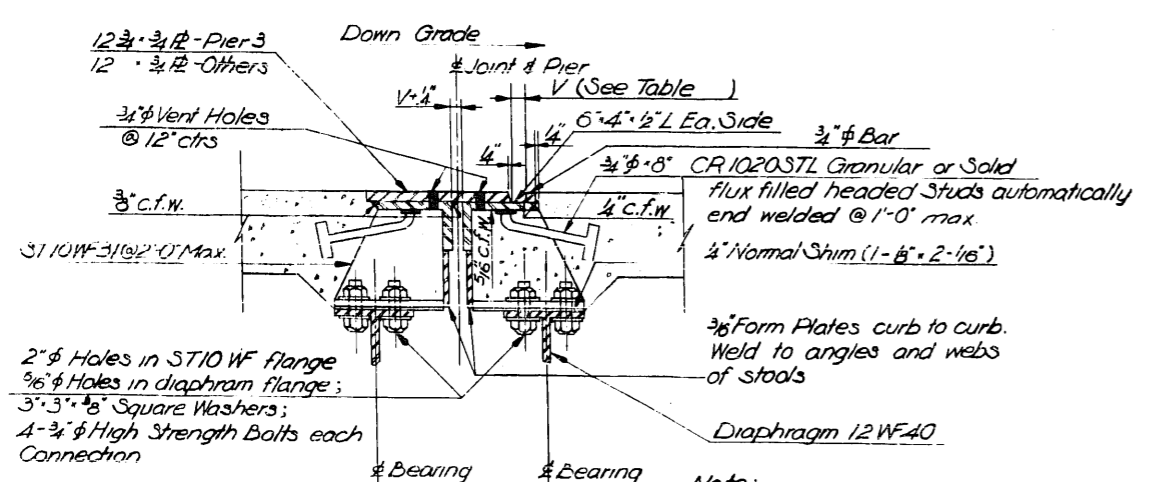
PLAN



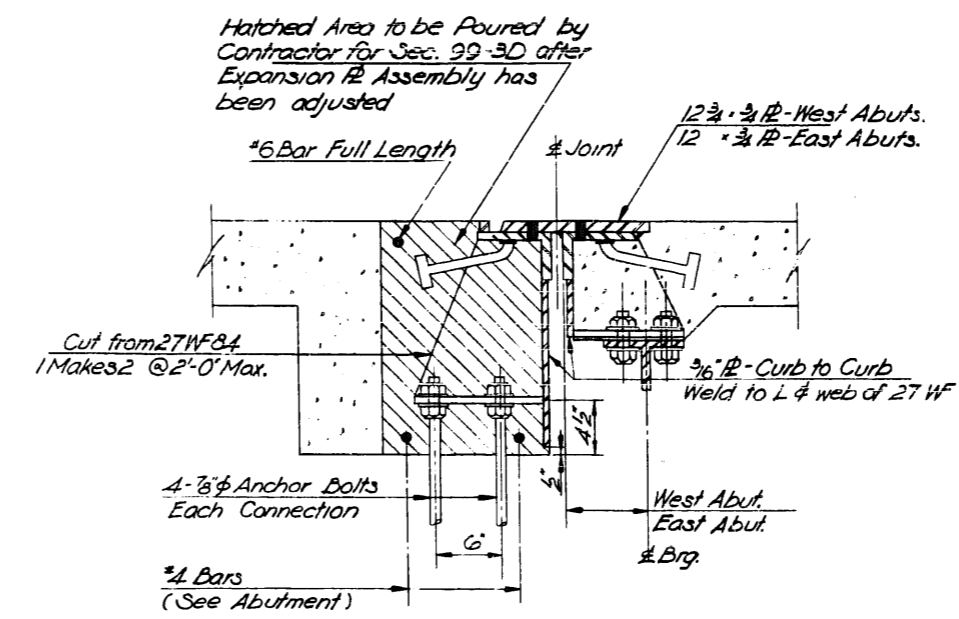
ELEVATION



PLAN



SECTION A-A



SECTION B-B

Notes:
The Contractor for Sec. 99-3E4F shall fabricate and erect all expansion dams (ED-3 and ED-4).
The Contractor for Sec. 99-3D shall adjust all devices as required before pouring the deck slab.
Contractor for Sec. 99-3E4F shall provide 1 set of 1-1/8" and 1-1/16" additional shims for each set of 1/4" normal shims for height adjustment

DESIGNED	Hcm
CHECKED	R. S.
DRAWN	F. C.
CHECKED	Hcm

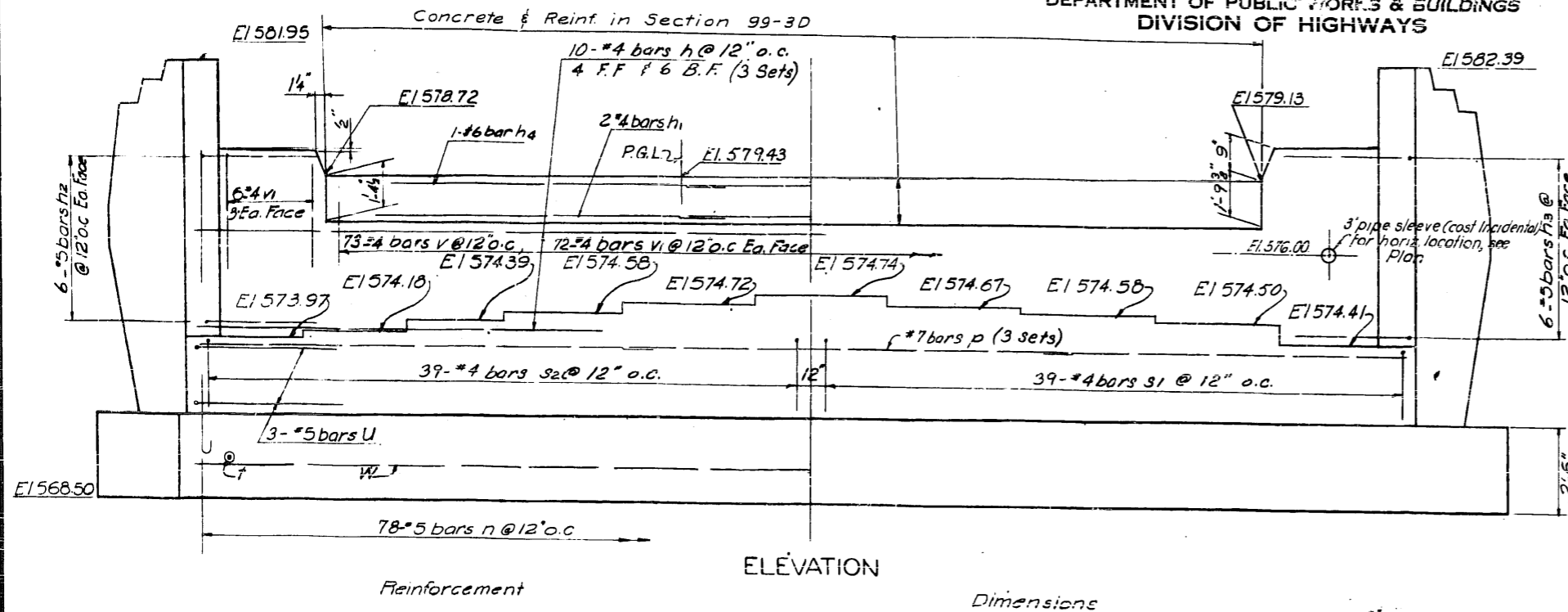
EXPANSION DAM ED-3
Used at Piers No. 3, 12, 14, 16, 18, 20, 22, 23.

EXPANSION DAM ED-4
Used at Abutments
For Dimensions and Material not Shown, See ED-3

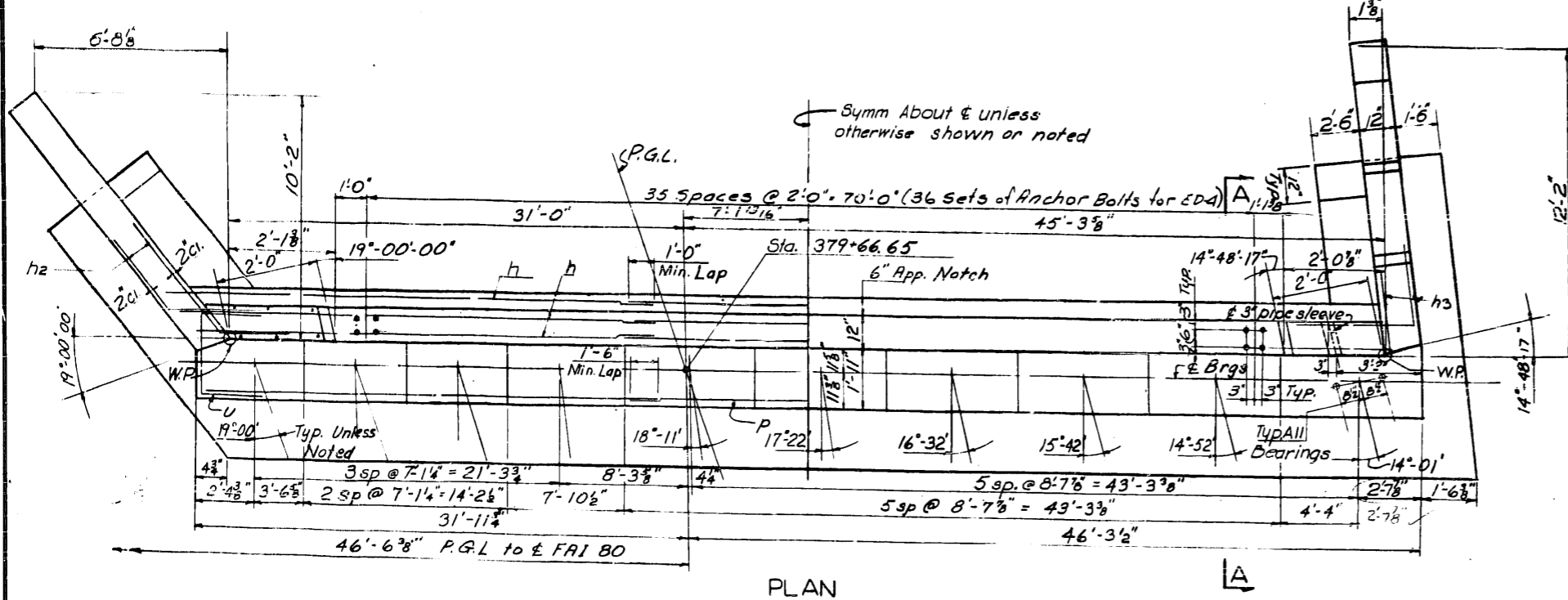
APPROACH SPANS
EXPANSION DAM DETAILS
FAI-80 OVER DES PLAINES RIVER
STA. 387+94.50
FAI ROUTE 80 SECTION 99-3D-E4F-P PROJECT WILL COUNTY
Scale: None Date: Dec. 28, 1960
RIAUVELT ENGINEERING CO. CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

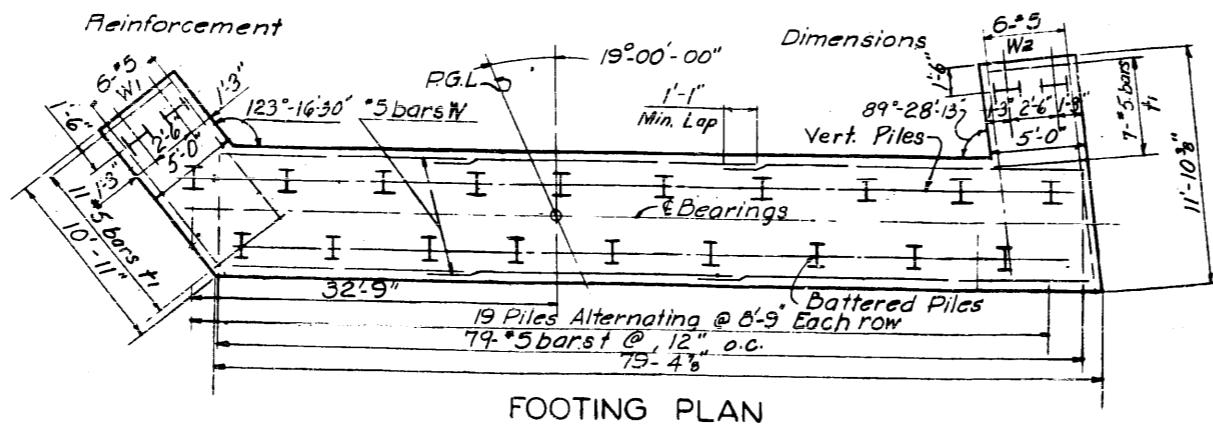
ROUTE NO.	SECTION	CORNER	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	65	31
SHEET NO. 31				
70 SHEETS				



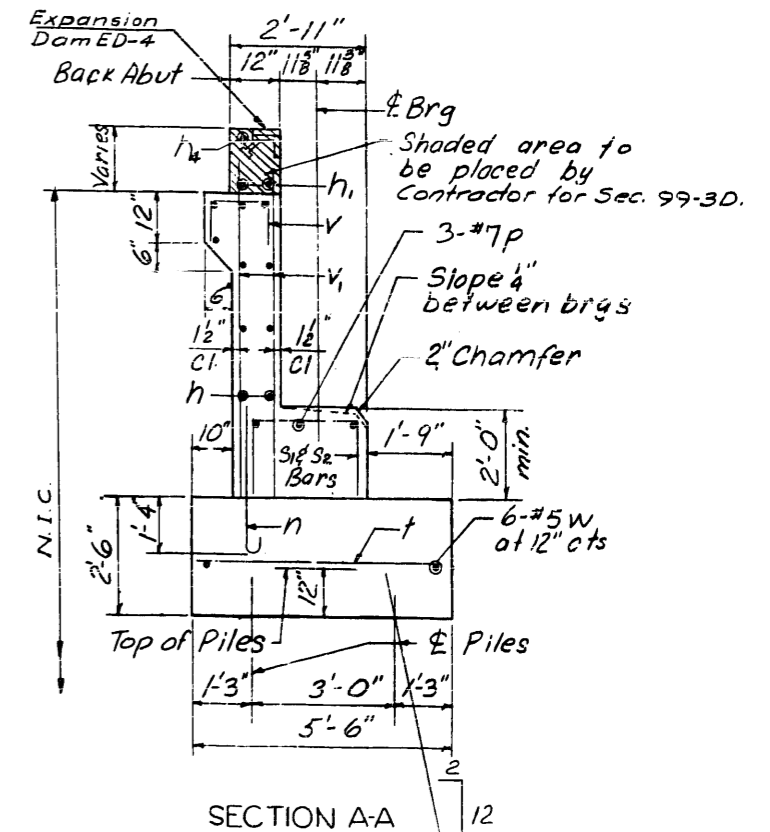
ELEVATION
Reinforcement Dimensions



PLAN
Reinforcement Dimensions



FOOTING PLAN
Reinforcement Dimensions



SECTION A-A
12

PILE DATA - N.I.C.
Type - 10BP42
Capacity - 37 Ton Max.
Est. Length - 30 Feet
No. Req'd - 22
One Test Pile

Notes:
Bars h1, h4, and Concrete volume as shown above to be furnished and placed by Contractor for Section 99-3D.
All other material to be furnished and placed by Contractor for Section 99-3B.
For Bar List for Section 99-3D, see sh 43
For Bill of Material for Sec 99-3D, see sh 7
For Details of Expansion Dam ED-4, see sh 27

DESIGNED	J.T.L.
CHECKED	H.C.M.
DRAWN	P.H.
CHECKED	J.T.L.

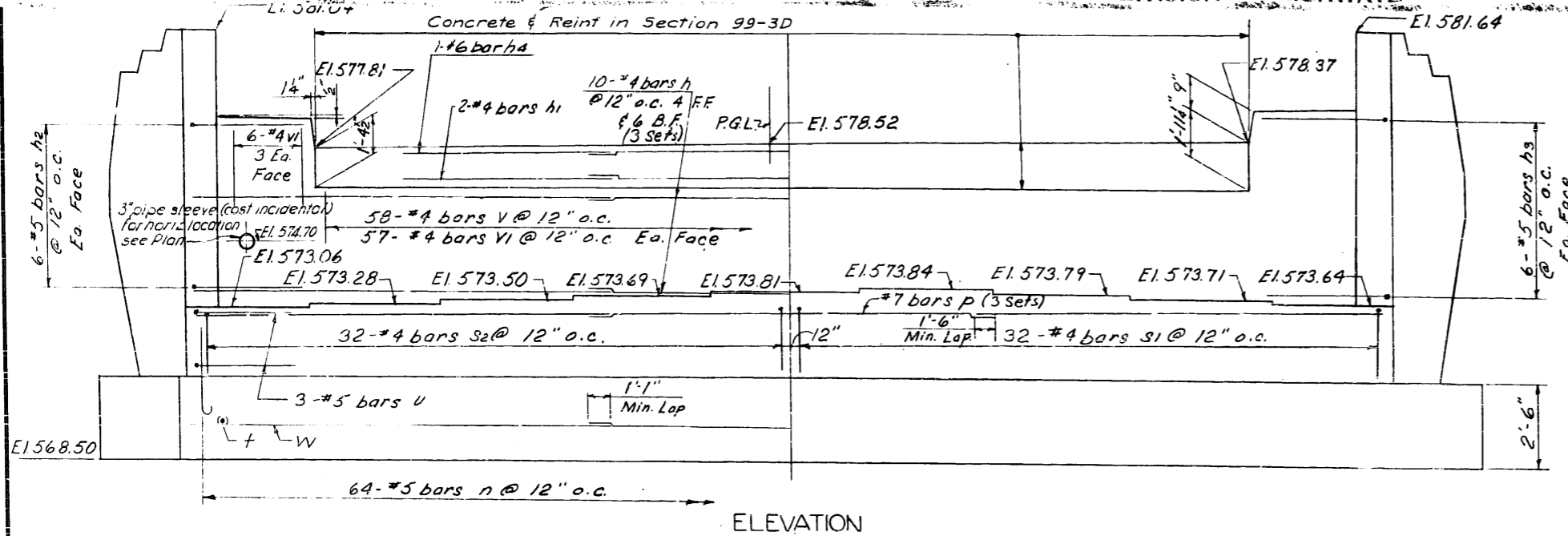
NORTHWEST ABUTMENT
FAI-80 OVER DES PLAINES RIVER

STA. 387 + 94.50
FAI ROUTE 80 PROJECT
SECTION 99-3D-E/F WILL COUNTY
Scale: No Scale Date: Dec 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODRUFF BLDG. NEW YORK, N.Y. CAPITAL BLDG. ILL.

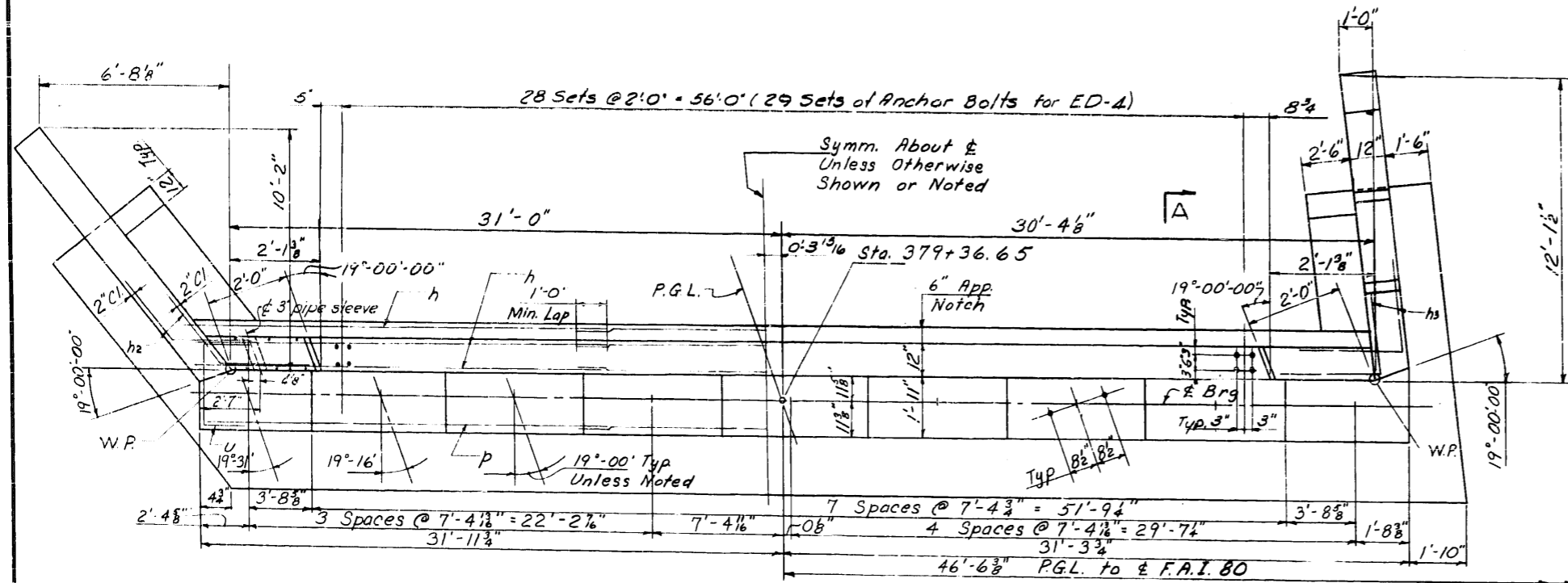
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	38
	99-3E4F		63	32
ED. ROAD DIST. NO.			PROJECT	

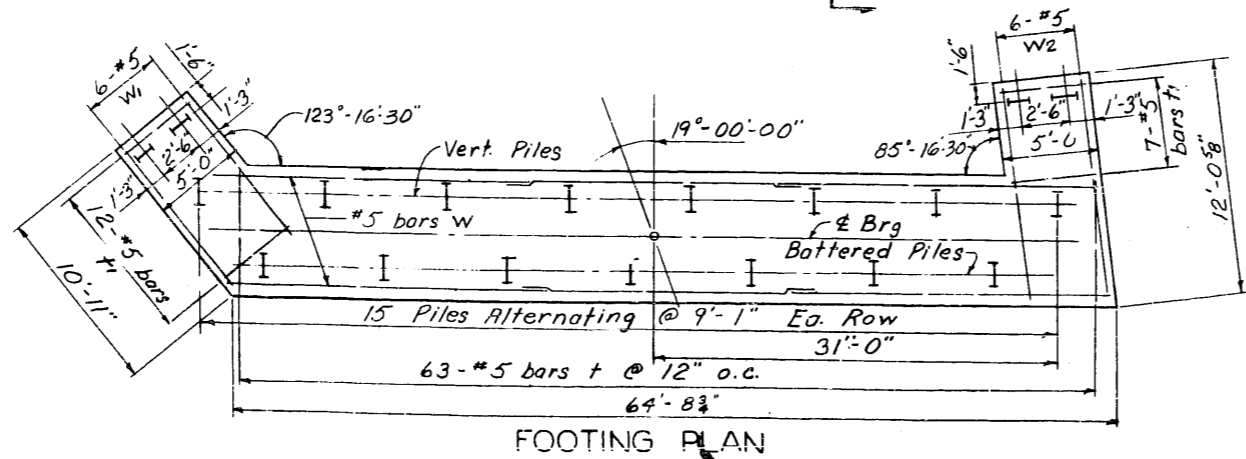
SHEET NO. 32
70 SHEETS



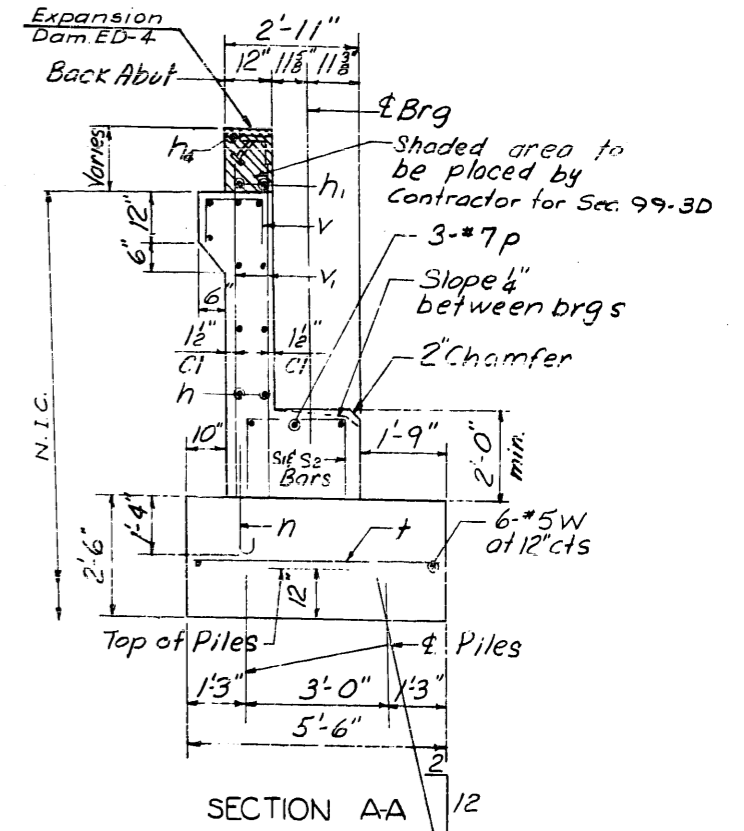
ELEVATION



PLAN



FOOTING PLAN



SECTION AA 12

Notes:
Bars h, & h₁, and Concrete volume as shown above to be furnished and placed by Contractor for Section 99-3D.
All other material to be furnished and placed by Contractor for Sec. 99-3B.
For Bar-List for Sec. 99-3D see sh. 43
For Bill of Material for Sec. 99-3D see sh 7
For Details of Expansion Dam ED-4, see sh. 27

PILE DATA - N.I.C.
Type - 10BP42
Capacity - 37 Ton Max.
Est. Length - 30 Feet
No. Req'd - 19

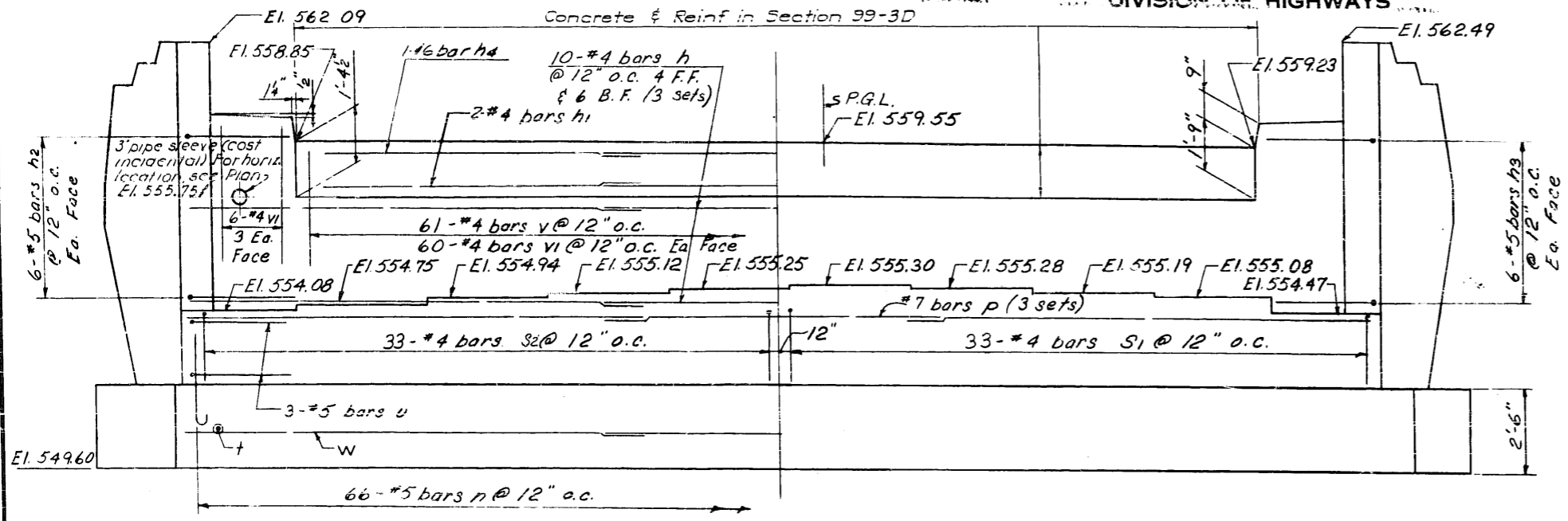
DESIGNED	J.T.L.
CHECKED	H.C.M.
DRAWN	L.D.
CHECKED	J.T.L.

SOUTHWEST ABUTMENT
FAI-80 OVER DES PLAINES RIVER
STA. 387 + 94.50
FAI ROUTE 80 SECTION 99-3D-E4F PROJECT
WILL COUNTY
Scale: No Scale Date: Dec 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. I. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

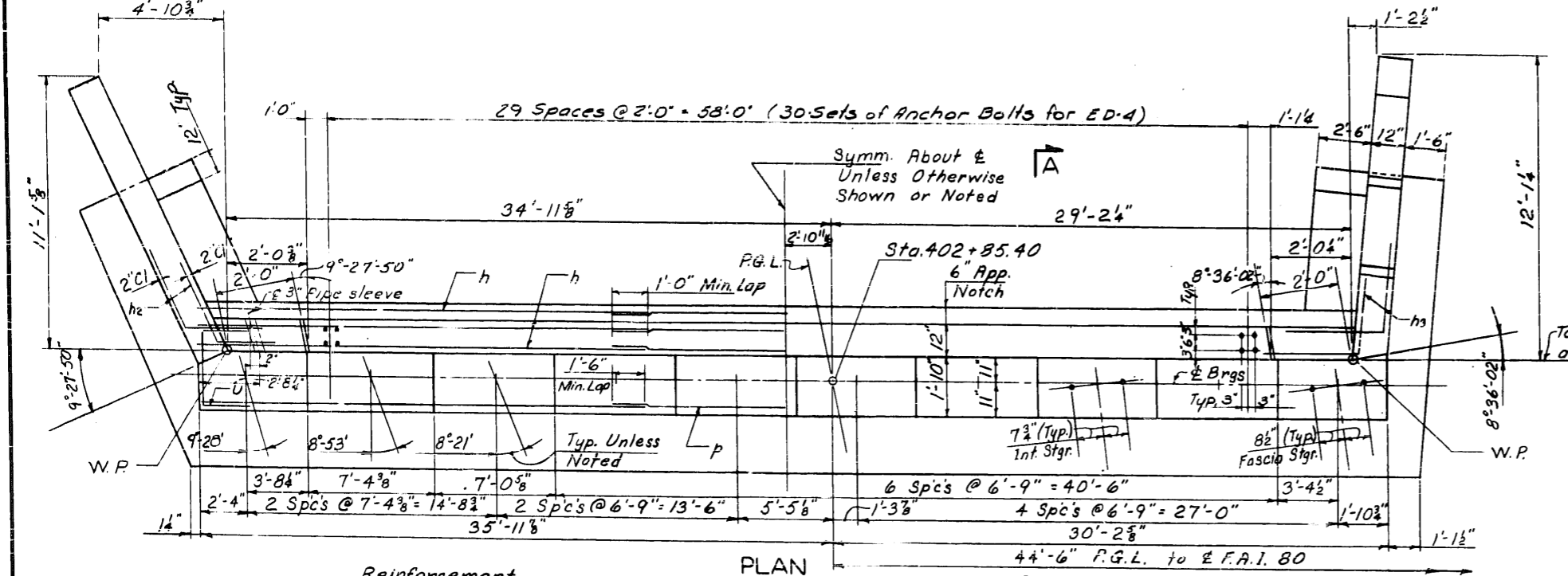
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	33
FED. ROAD DIST. NO.	99-3E/F	ILLINOIS PROJECT	63	33

SHEET NO. 33
70 SHEETS



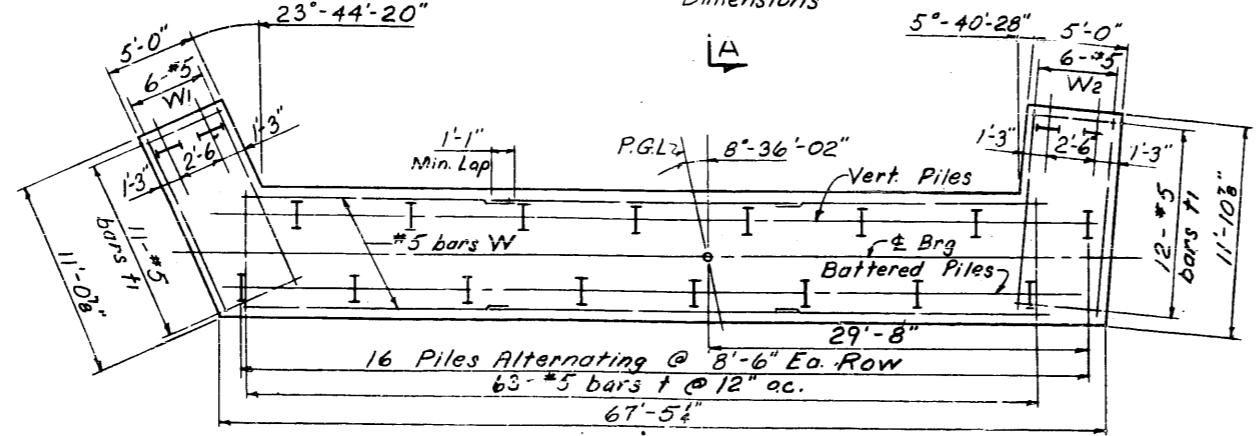
ELEVATION



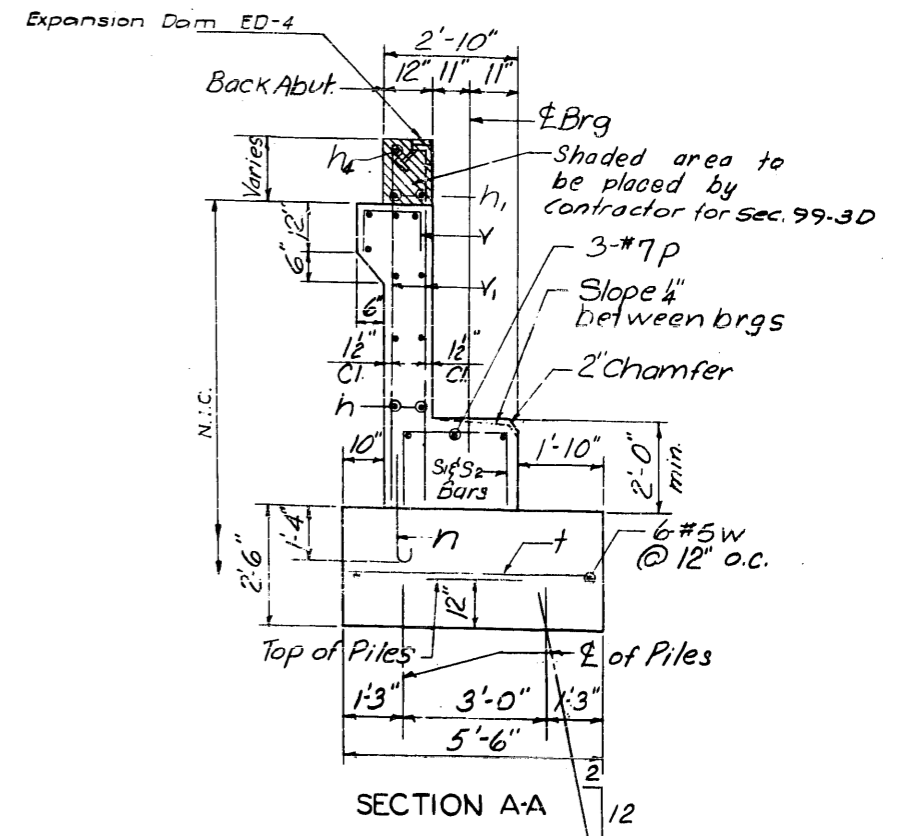
Reinforcement

PLAN

Dimensions



FOOTING PLAN



SECTION A-A

PILE DATA - N.I.C.
Type - 10BP42
Capacity - 37 Ton Max.
Est. Length - 37 Feet
No. Req'd - 20

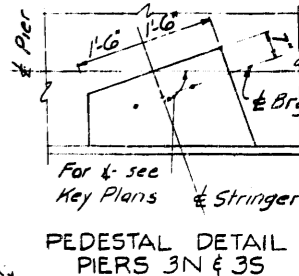
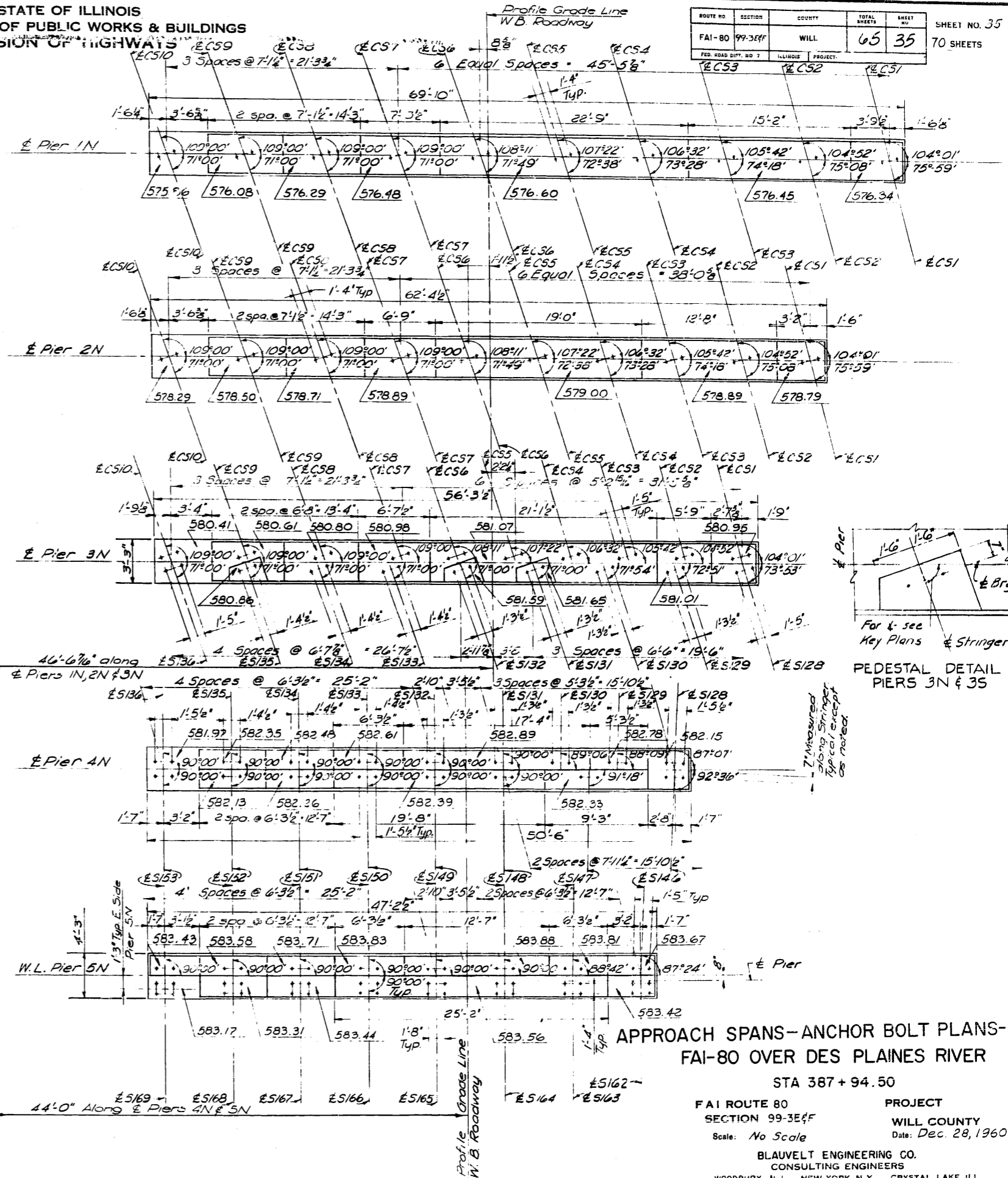
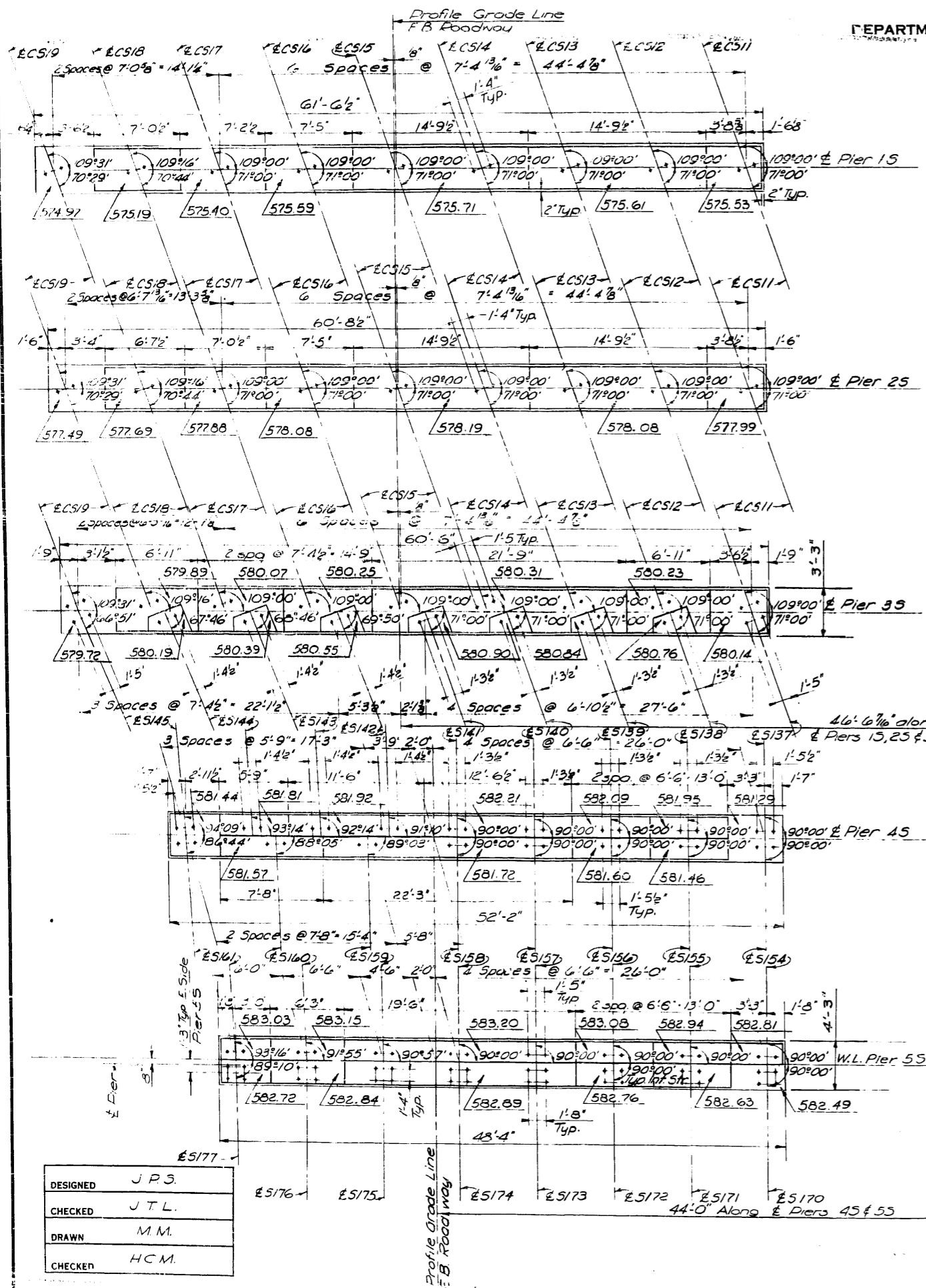
Notes:
Bars h_1 & h_4 and concrete volume as shown above to be furnished and placed by the Contractor for section 99-3D.
All other material to be furnished and placed by the Contractor for section 99-3B.
For Bar List for section 99-3D, see sheet 45.
For Bill of Material for Sec. 99-3D, see sheet 15.
For Detail of Expansion Dam ED-4, see sheet 27.

DESIGNED	J. T. L.
CHECKED	H. C. M.
DRAWN	L. D.
CHECKED	J. T. L.

NORTHEAST ABUTMENT
FAI-80 OVER DES PLAINES RIVER
STA. 387 + 94.50
FAI ROUTE 80 PROJECT
SECTION 99-3D-E/F WILL COUNTY
Scale: No Scale Date: Dec 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODSBURY N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E&F	WILL	65	35
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			70 SHEETS



DESIGNED	J.P.S.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.

APPROACH SPANS-ANCHOR BOLT PLANS-I
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

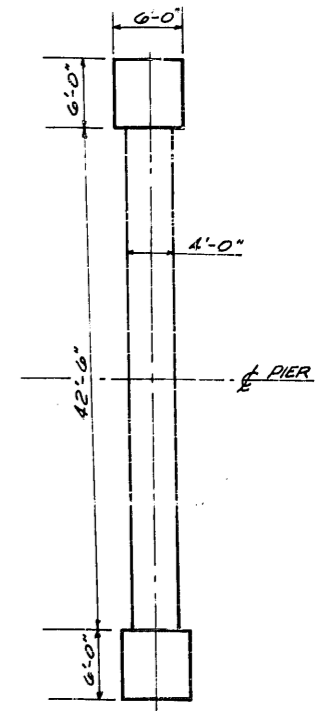
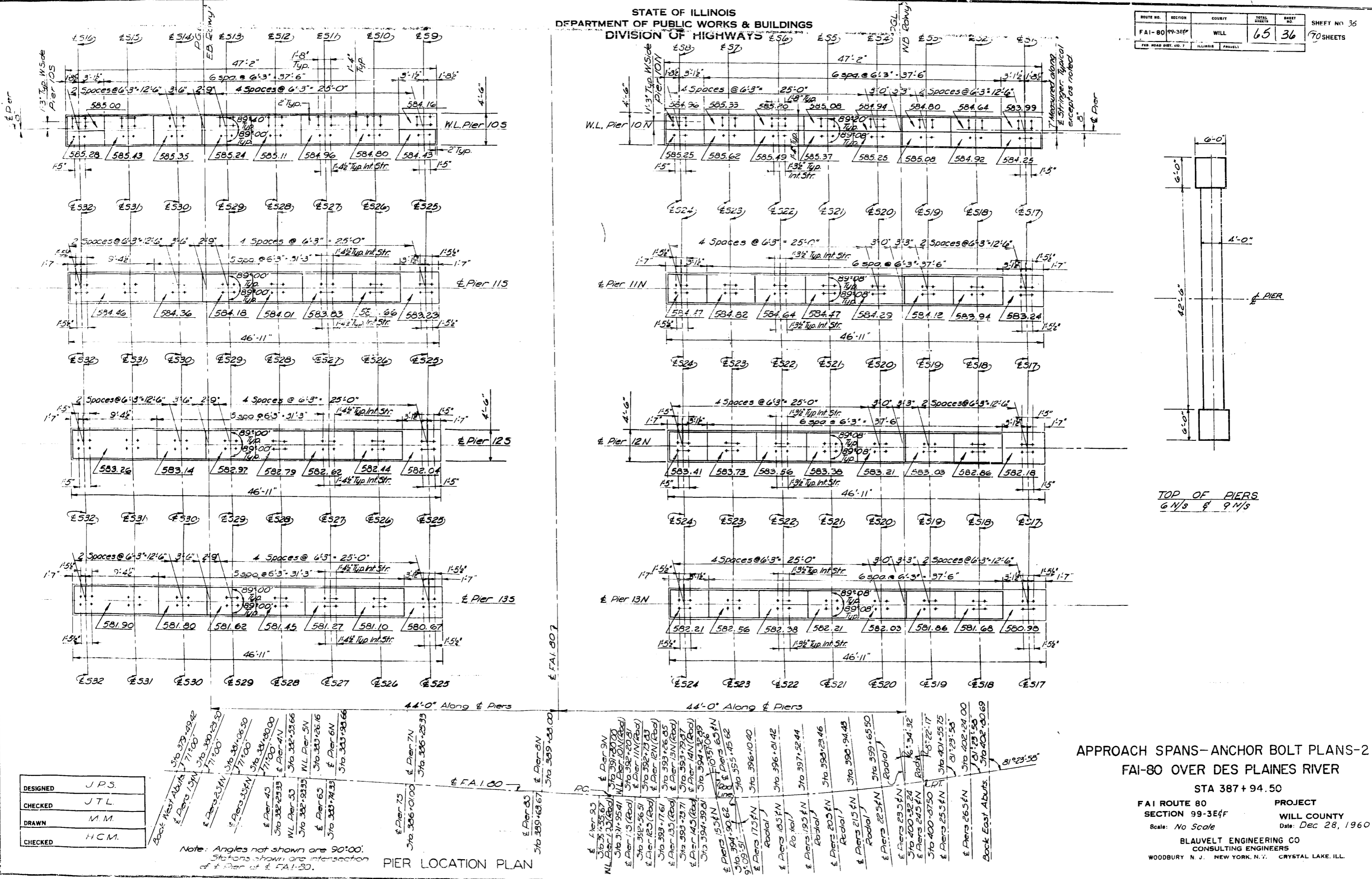
FAI ROUTE 80
SECTION 99-3E&F
Scale: No Scale

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

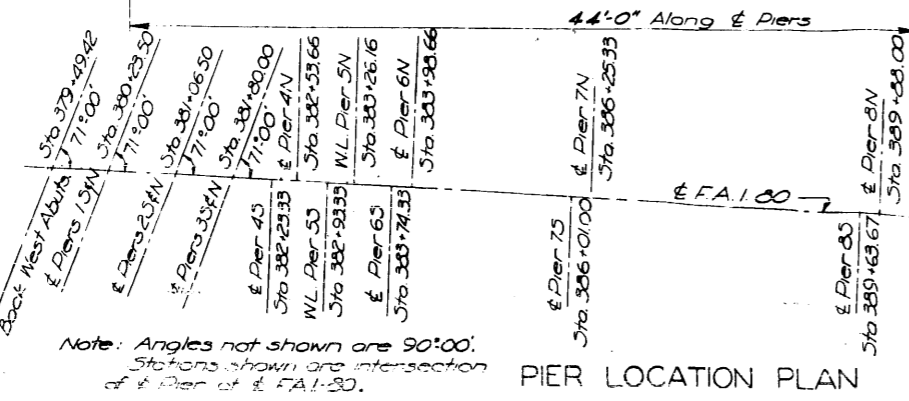
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FAI-80	99-3E4f	WILL	65	36	70 SHEETS
FEB. ROAD DIST. NO. 7	ILLINOIS	PROJECT			



DESIGNED	J.P.S.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.



Note: Angles not shown are 90°00'.
Stations shown are intersection of Pier at FAI-80.

APPROACH SPANS-ANCHOR BOLT PLANS-2
FAI-80 OVER DES PLAINES RIVER

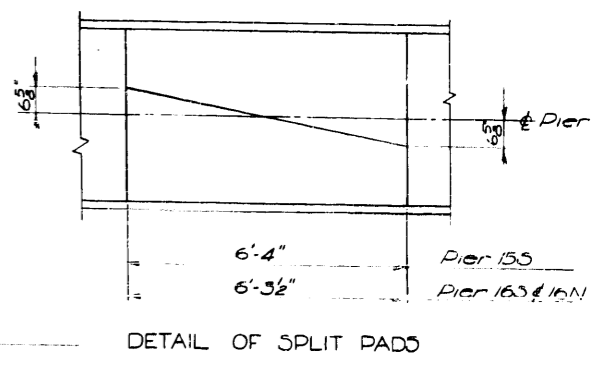
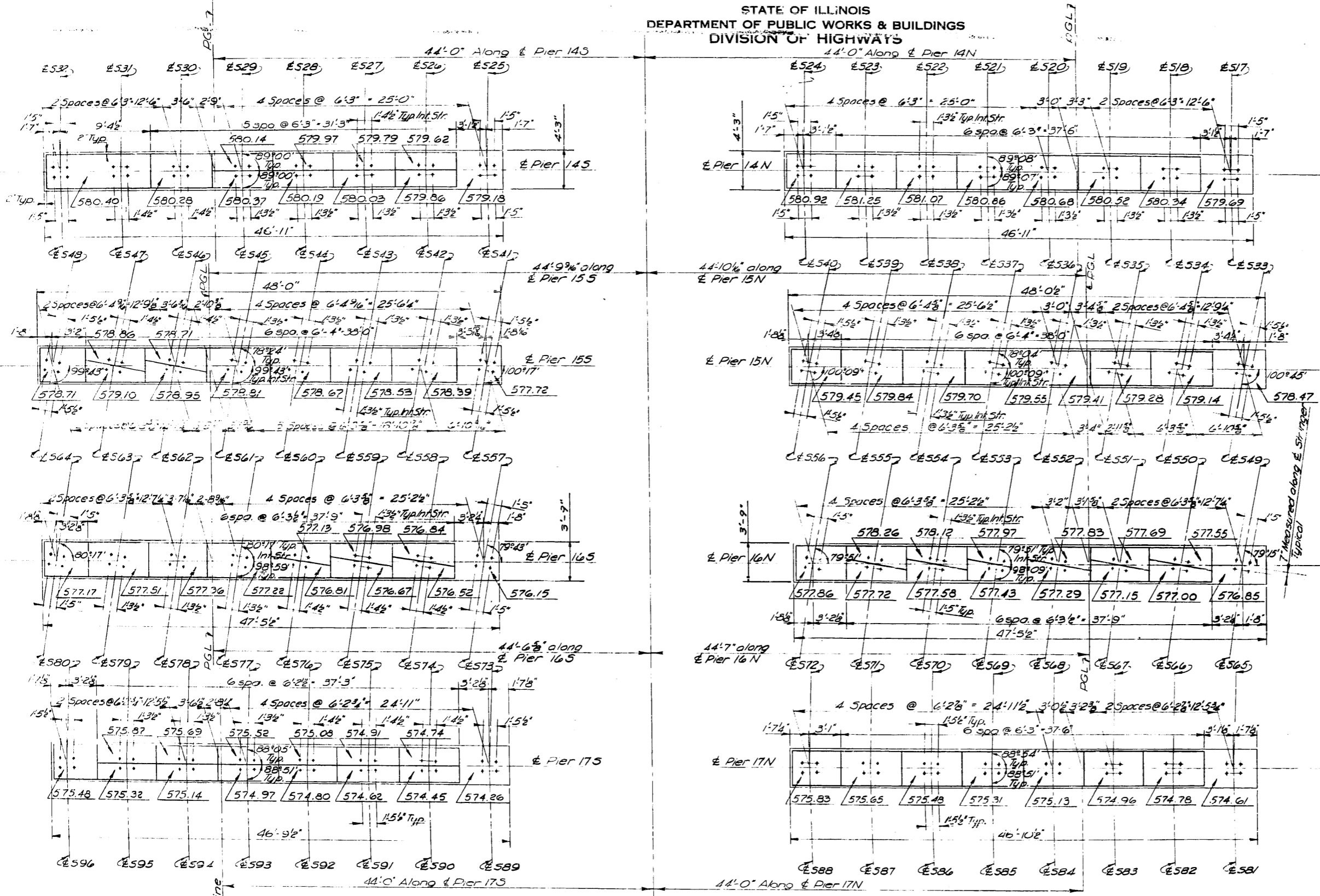
STA 387+94.50

FAI ROUTE 80 SECTION 99-3E4f PROJECT WILL COUNTY
Scale: No Scale Date: Dec 28, 1960
BLAUVELT ENGINEERING CO CONSULTING ENGINEERS
WOODBURY N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E8F	WILL	65	37
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO. 37
70 SHEETS



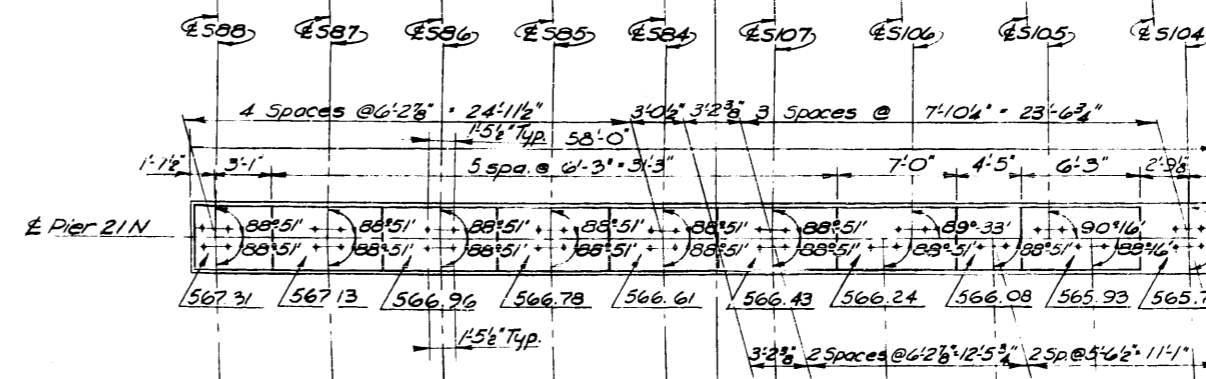
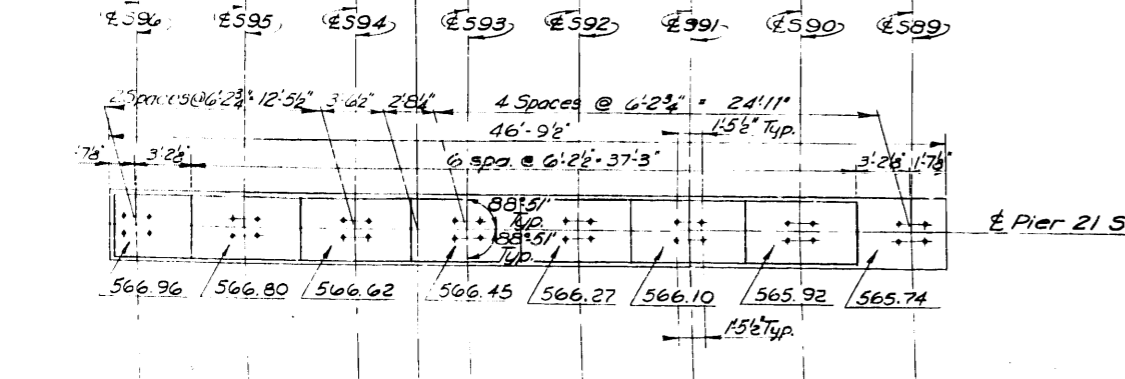
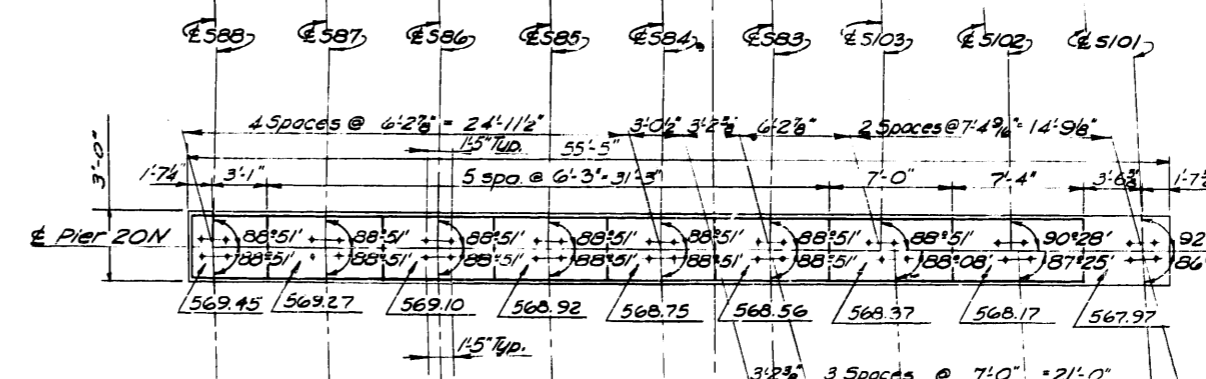
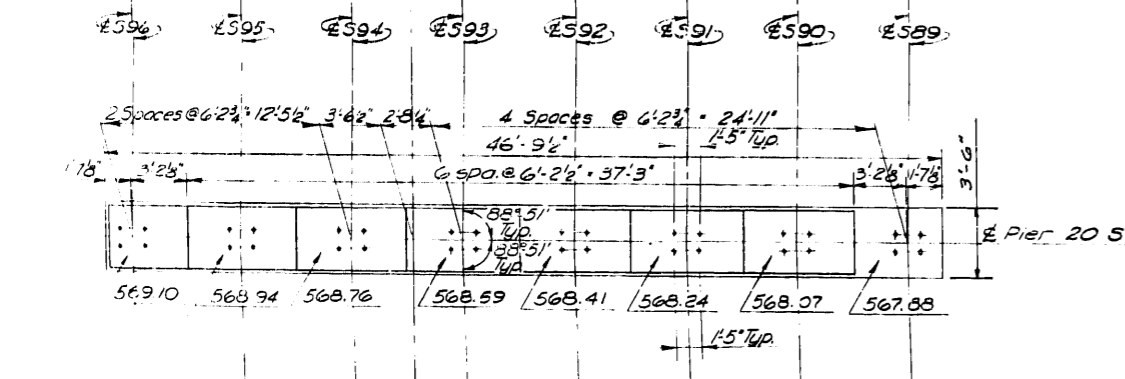
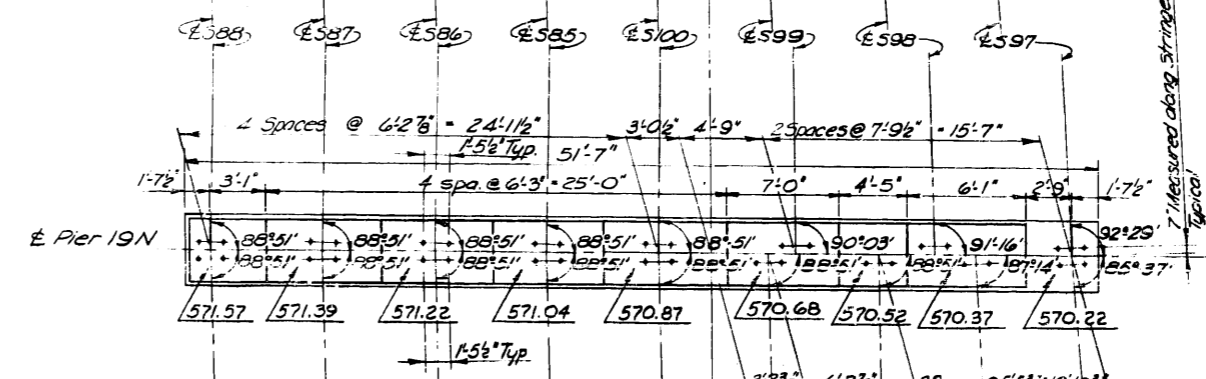
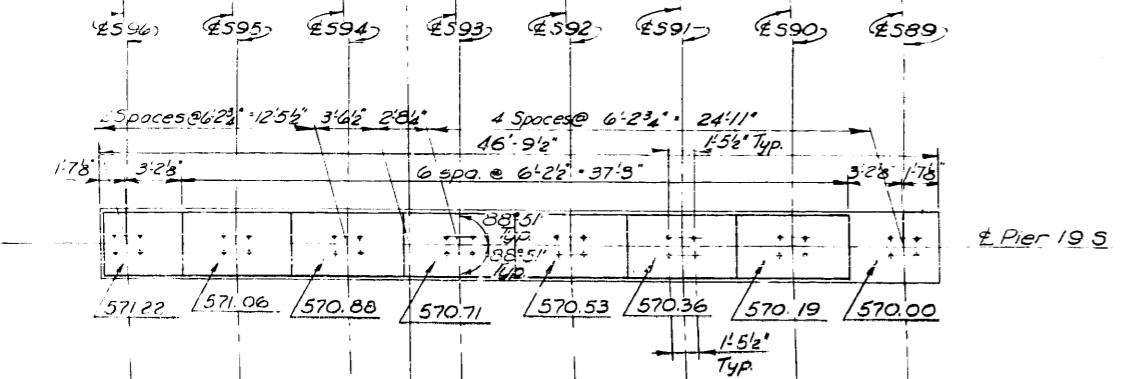
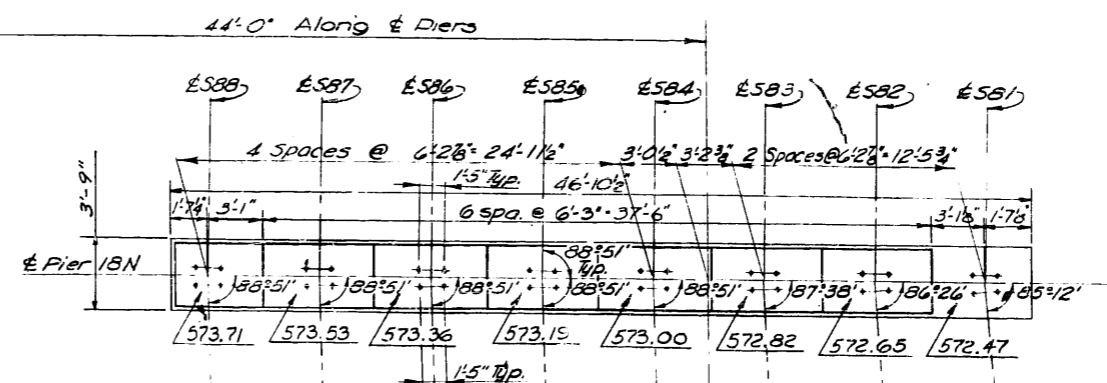
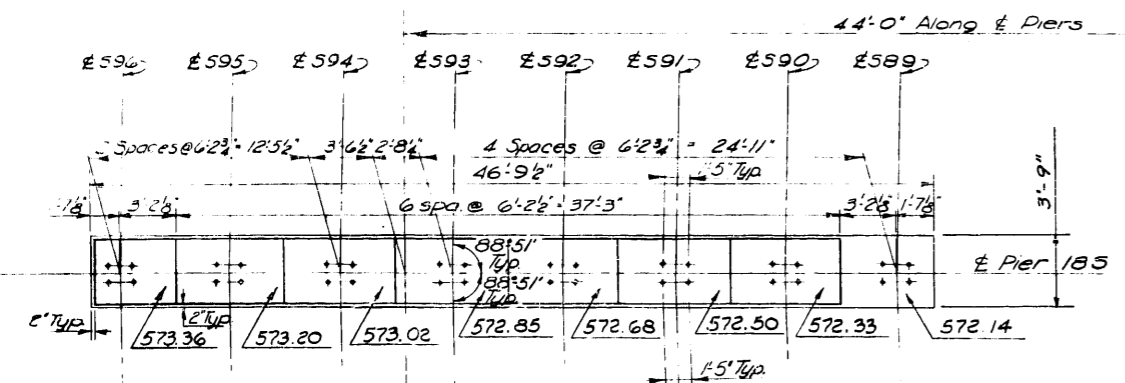
DESIGNED	J.P.S.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.

APPROACH SPANS-ANCHOR BOLT PLANS-3
FAI-80 OVER DES PLAINES RIVER

STA 387 + 94.50
FAI ROUTE 80 PROJECT
SECTION 99-3E8F WILL COUNTY
Scale: No Scale Date: Dec 28, 1960.
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 38
FAI-80	99-3E4F	WILL	65	38	70 SHEETS



DESIGNED	J.P.S.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.

Profile Grade Line
E.B. Roadway

E FAI-80

Profile Grade Line
V.B. Roadway

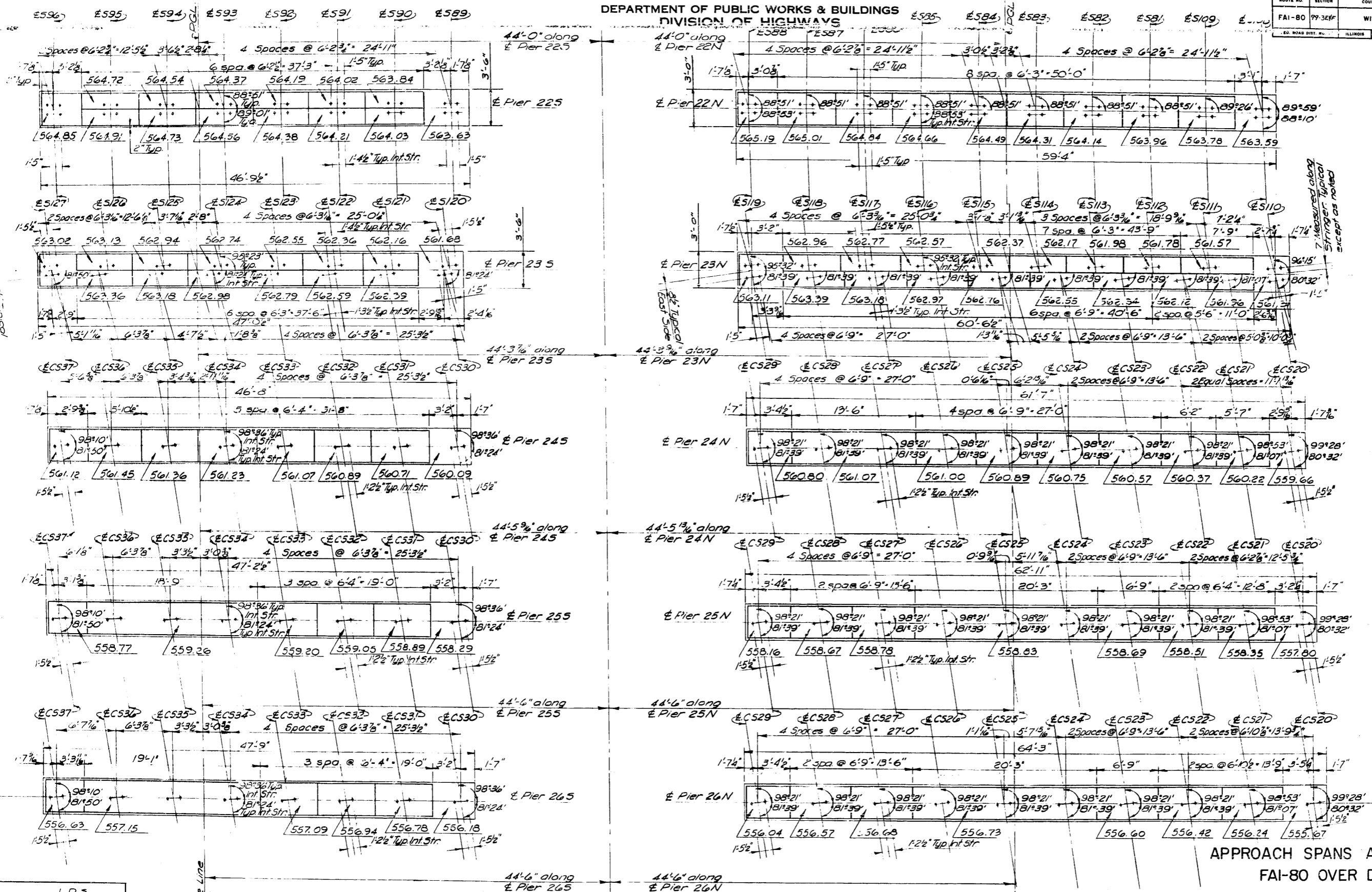
APPROACH SPANS
ANCHOR BOLT PLANS-4
FAI-80 OVER DES PLAINES RIVER

STA 387+94.50
FAI ROUTE 80 PROJECT
SECTION 99-3E4F WILL COUNTY
Scale: No Scale Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E4F	WILL	65	39
ED. ROAD DIST. NO.		ILLINOIS PROJECT		

SHEET NO. 39
70 SHEETS



APPROACH SPANS ANCHOR BOLT PLANS-5
FAI-80 OVER DES PLAINES RIVER

STA 387+94.50

FAI ROUTE 80 PROJECT
SECTION 99-3E4F WILL COUNTY
Scale: No Scale Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED	J.P.S.
CHECKED	J.T.L.
DRAWN	M.M.
CHECKED	H.C.M.

Profile Grade Line
E.B. Roadway

Profile Grade Line
H.B. Roadway

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	65	40
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT		

SHEET NO. 42
70 SHEETS

WEST APPROACH SPANS				
Span No.	Stringer Mark	West Brg.	East Brg.	
WB4	8128	585.10	586.28	
	8129	585.18	586.39	
	8130	585.25	586.49	
	8131	585.27	586.55	
	8132	585.22	586.55	
	8133	585.10	586.48	
	8134	584.93	586.36	
	8135	584.74	586.23	
	8136	584.56	586.10	
	8137	584.29	585.42	
	8138	584.37	585.56	
	8139	584.45	585.69	
	8140	584.52	585.82	
EB4	8141	584.52	585.88	
	8142	584.44	585.87	
	8143	584.28	585.80	
	8144	584.07	585.69	
	8145	583.87	585.57	
	8146	586.31	587.81	
	8147	586.47	587.94	
	8148	586.57	588.01	
	8149	586.58	588.01	
	8150	586.51	587.95	
	8151	586.39	587.83	
	8152	586.26	587.69	
	8153	586.13	587.56	
EB5	8154	585.45	586.93	
	8155	585.59	587.06	
	8156	585.72	587.20	
	8157	585.85	587.32	
	8158	585.91	587.38	
	8159	585.88	587.37	
	8160	585.71	587.28	
	8161	585.60	587.16	
	8162	587.84	589.07	
	8163	587.96	589.19	
	8164	588.04	589.27	
	8165	588.04	589.27	
	8166	587.97	589.20	
WB6	8167	587.85	589.08	
	8168	587.72	588.92	
	8169	587.59	588.82	
	8170	586.95	588.42	
	8171	587.09	588.56	
	8172	587.22	588.69	
	8173	587.35	588.82	
	8174	587.41	588.88	
	8175	587.39	588.86	
	8176	587.31	588.77	
	8177	587.18	588.67	

EAST APPROACH SPANS			
Span No.	Stringer Mark	West Brg.	East Brg.
WB10	81	589.13	588.40
	82	589.28	588.56
	83	589.40	588.72
	84	589.48	588.87
	85	589.53	589.00
	86	589.55	589.12
	87	589.56	589.25
	88	589.58	589.37
	89	589.28	588.57
	810	589.42	588.73
	811	589.56	588.88
	812	589.69	589.04
	813	589.79	589.17
EB10	814	589.83	589.27
	815	589.82	589.35
	816	589.77	589.41
	817	588.37	587.40
	818	588.54	587.57
	819	588.70	587.75
	820	588.84	587.92
	821	588.98	588.10
	822	589.11	588.27
	823	589.24	588.45
	824	589.36	588.62
	817	587.37	586.33
	818	587.55	586.50
WB11	819	587.72	586.68
	820	587.90	586.85
	821	588.07	587.03
	822	588.25	587.20
	823	588.42	587.38
	824	588.60	587.55
	817	586.30	585.14
	818	586.47	585.32
	819	586.65	585.49
	820	586.82	585.67
	821	587.00	585.84
	822	587.17	586.02
	823	587.35	586.19
WB12	824	587.52	586.37
	817	585.11	583.85
	818	585.29	584.02
	819	585.46	584.20
	820	585.64	584.37
	821	585.81	584.55
	822	585.99	584.72
	823	586.16	584.90
	824	586.34	585.07
	825	586.54	585.39
	826	586.70	585.66
	827	586.86	585.94
	828	587.01	586.21
WB13	829	589.15	588.09
	830	589.25	588.26
	831	589.33	588.44
	832	589.39	588.61
	825	587.36	586.18
	826	587.54	586.36
	827	587.71	586.53
	828	587.89	586.71
	829	588.06	586.88
	830	588.24	587.06
	831	588.41	587.23
	832	588.59	587.41

EAST APPROACH SPANS			
Span No.	Stringer Mark	West Brg.	East Brg.
EB13	825	586.16	584.83
	826	586.33	585.01
	827	586.51	585.18
	828	586.68	585.36
	829	586.86	585.53
	830	587.03	585.71
	831	587.21	585.88
	832	587.38	586.06
	825	584.80	583.33
	826	584.98	583.51
	827	585.15	583.68
	828	585.33	583.86
	EB14	829	585.50
830		585.68	584.21
831		585.85	584.39
832		586.03	584.56
833		583.81	582.63
834		583.99	582.77
835		584.16	582.91
836		584.34	583.05
837		584.51	583.19
838		584.69	583.34
839		584.86	583.48
840		585.04	583.62
841		583.30	581.88
WB15	842	583.47	582.02
	843	583.65	582.17
	844	583.82	582.31
	845	584.00	582.45
	846	584.17	582.59
	847	584.35	582.74
	848	584.52	582.88
	849	582.60	581.02
	850	582.75	581.16
	851	582.89	581.30
	852	583.03	581.45
	853	583.16	581.59
	EB15	854	583.30
855		583.44	581.88
856		583.58	582.02
857		583.84	582.31
858		582.00	580.45
859		582.14	580.60
860		582.28	580.74
861		582.42	580.89
862		582.56	581.03
863		582.70	581.18
864		582.84	581.32
865		580.98	578.77
866		581.12	578.95
WB16	867	581.26	579.12
	868	581.41	579.30
	869	581.55	579.47
	870	581.69	579.65
	871	581.84	579.82
	872	581.99	580.00
	873	582.27	580.44
	874	580.41	578.61
	875	580.56	578.79
	876	580.70	578.96
	877	580.85	579.14
	878	580.99	579.31
	879	581.14	579.49
EB16	880	581.28	579.66

EAST APPROACH SPANS			
Span No.	Stringer Mark	West Brg.	East Brg.
WB20	8101	574.34	572.14
	8102	574.50	572.35
	8103	574.65	572.56
	8104	574.82	572.73
	8105	575.00	572.91
	8106	575.17	573.08
	8107	575.35	573.26
	8108	575.52	573.43
	8109	575.70	573.61
	8110	572.10	569.94
	8111	572.30	570.16
	8112	572.50	570.38
	WB21	8113	572.69
8114		572.87	570.78
8115		573.04	570.95
8116		573.22	571.13
8117		573.39	571.30
8118		573.57	571.48
8119		569.30	567.77
8120		570.06	567.95
8121		570.21	568.12
8122		570.39	568.30
8123		570.56	568.47
8124		570.74	568.65
WB22		8125	570.91
	8126	571.09	569.00
	8127	571.26	569.17
	8128	571.44	569.34
	8129	567.73	565.49
	8130	567.91	565.71
	8131	568.08	565.91
	8132	568.26	566.11
	8133	568.43	566.30
	8134	568.61	566.50
	8135	568.78	566.70
	8136	568.96	566.89
	EB20	8137	569.13
8138		569.30	567.29
8139		567.75	565.84
8140		567.92	566.04
8141		568.10	566.23
8142		568.27	566.43
8143		568.45	566.62
8144		568.62	566.82
8145		568.79	567.01
8146		568.97	567.21
8147			
8148			
8149			

EAST APPROACH SPANS			
Span No.	Stringer Mark	West Brg.	East Brg.
WB18	881	578.73	576.64
	882	578.91	576.82
	883	579.08	576.99
	884	579.26	577.17
	885	579.43	577.34
	886	579.61	577.52
	887	579.78	577.69
	888	579.96	577.87
	889	578.42	576.31
	890	578.57	576.48
	891	578.75	576.66
	892	578.92	576.83
	EB18	893	579.10
894		579.27	577.18
895		579.45	577.36
896		579.62	577.53
897		576.27	574.18
898		576.44	574.35
899		576.62	574.53
900		576.79	574.70
901		576.97	574.88
902		577.14	575.05
903		577.32	575.23
904		577.49	575.40
WB19		905	574.14
	906	574.31	572.22
	907	574.49	572.40
	908	574.66	572.57
	909	574.84	572.75
	910	575.01	572.92
	911	575.19	573.10
	912	575.36	573.27
	913	575.54	573.45
	914	575.71	573.62
	915	575.89	573.80
	916	576.06	573.97
	917	576.23	574.14
EB19	918	576.41	574.31
	919	576.58	574.49
	920	576.75	574.67
	921	576.92	574.84
	922	577.09	575.01
	923	577.26	575.18
	924	577.43	575.35
	925	577.60	575.52
	926	577.77	575.69
	927	577.94	575.86
	928	578.11	576.03
	929	578.28	576.20
	930	578.45	576.37

APPROACH SPANS
TOP OF BEAM ELEVATIONS
FAI-80 OVER DES PLAINES RIVER
STA 367+94.50

DESIGNED F.C.
CHECKED C.F.C.
DRAWN F.C.
CHECKED C.F.C.

FAI ROUTE 80 SECTION 99-3D-E4F PROJECT WILL COUNTY
Scale: Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	48
FED. ROAD DIST. NO. 7	99-3E/F	ILLINOIS PROJECT	65	41
	99-3P		52	31

SHEET NO. 47
70 SHEETS

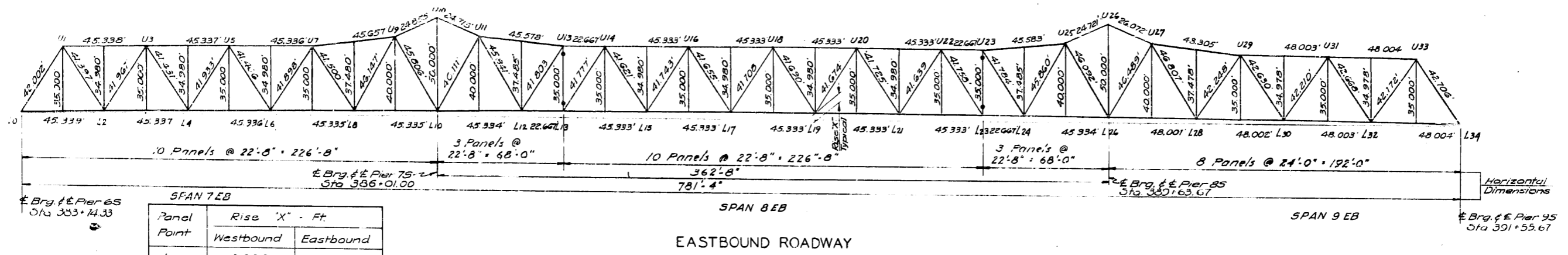
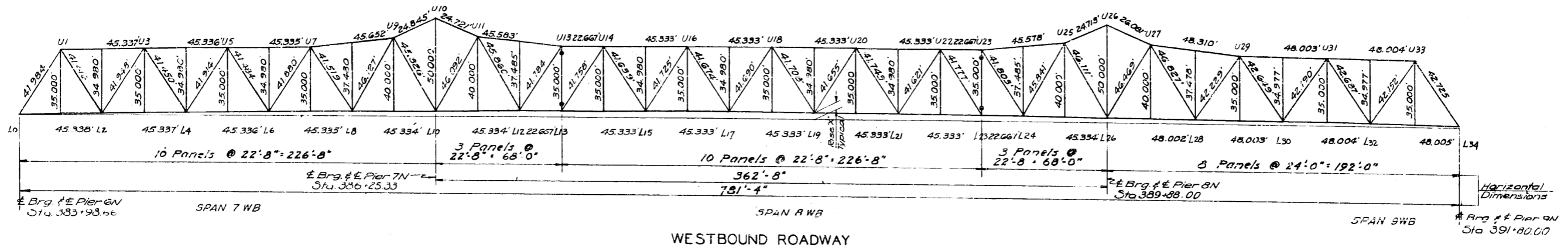


DIAGRAM OF TRUSS
Showing Nominal Lengths of Members

BILL OF MATERIALS
TRUSS SPANS

ITEM	UNIT	Section 99-3D		Section 99-3E/F	
		W.B. Rdwy	E.B. Rdwy	W.B. Rdwy	E.B. Rdwy
Class X Concrete	CY	842	842		
Fur. Erect. Struct. Steel (Carbon)	Lb			1,808,500	1,808,500
Fur. Erect. Struct. Steel (Low Alloy)	Lb			1,103,500	1,106,500
Fur. Erect. Cast. Steel	Lb			35,200	35,200
Fur. Erect. Structural Steel	Lb	7,570	7,570	2,947,200	2,950,200
Reinforcement Bars	Lb	201,430	201,430		

Panel Point	Rise "X" - Ft.	
	Westbound	Eastbound
L0	0.000	0.000
L2	0.677	0.721
L4	1.271	1.359
L6	1.783	1.916
L8	2.214	2.390
L10	2.561	2.782
L12	2.827	3.092
L13	2.929	3.216
L15	3.071	3.402
L17	3.132	3.507
L19	3.110	3.529
L21	3.005	3.468
L23	2.819	3.326
L24	2.695	3.224
L26	2.385	2.958
L28	1.967	2.587
L30	1.458	2.124
L32	0.856	1.569
L34	0.162	0.922

TRUSS SPANS
DIAGRAMS FOR NOMINAL LENGTHS
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED H.B.
CHECKED J.E.W.
DRAWN S.R.T.
CHECKED J.T.L.

FAI ROUTE 80
SECTION 99-3D-E-F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

BLAUVELT ENGINEERING CO
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAI-80	99-3E4F	WILL	45	42
FED. ROAD DIST. DIST. 7		ILLINOIS	PROJECT	

SHEET NO. 48
70 SHEETS

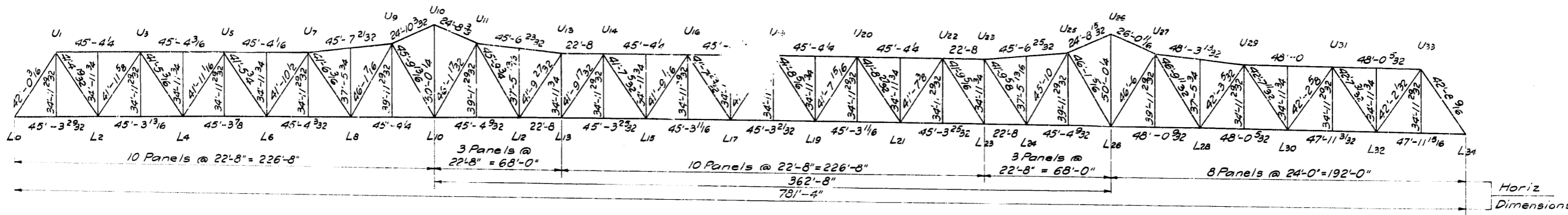
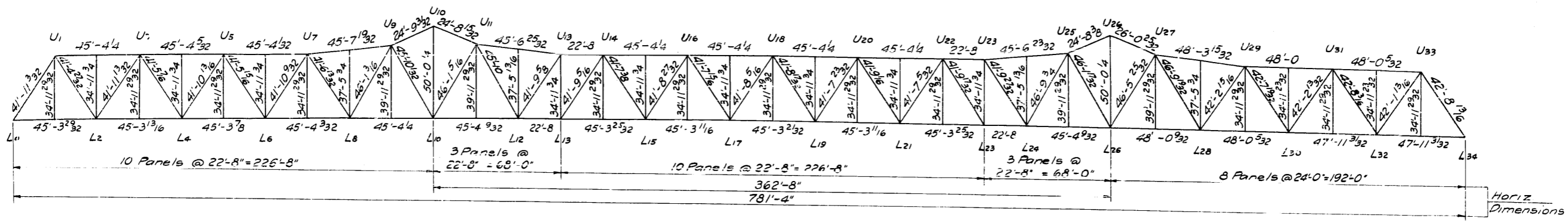
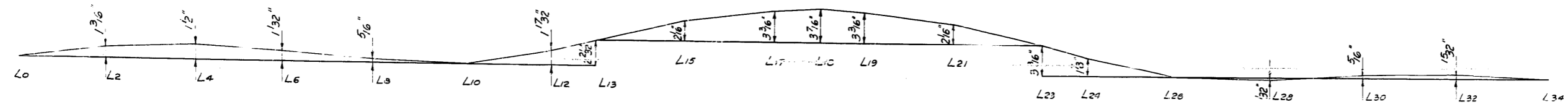


DIAGRAM OF TRUSS
Showing Fabricated Lengths of Members



TRUSS SPANS
DIAGRAMS FOR FABRICATED LENGTHS
FAI-80 OVER DES PLAINES RIVER
STA. 387+94.50

DESIGNED	PSS & JTL
CHECKED	JTL & PSS
DRAWN	SRT & JTB
CHECKED	HCM

FAI ROUTE 80
SECTION 99-3E4F
Scale: None

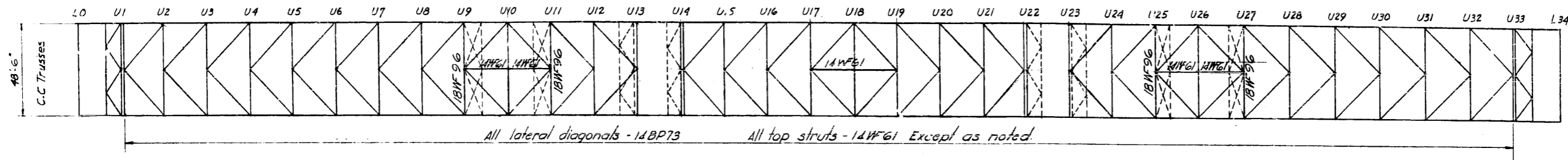
PROJECT
WILL COUNTY
Date: Dec 28, 1967

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
2000 JBY, N.J. ... LAKE, ILL.

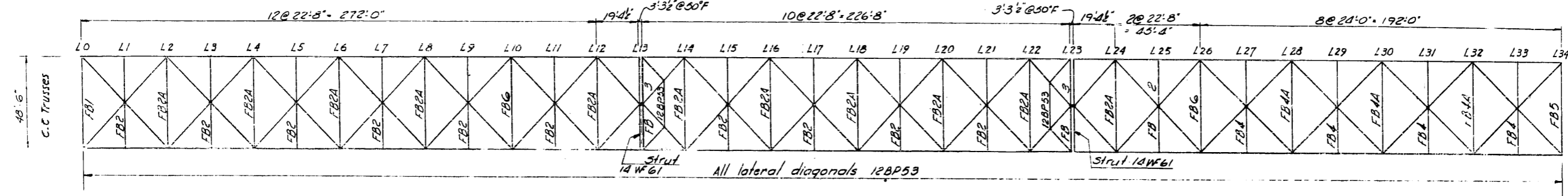
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	49
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		65	43
	99-3D		52	32

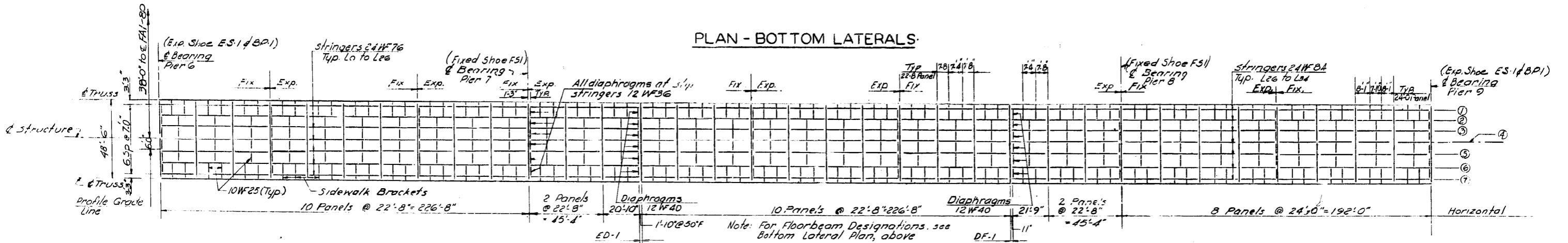
SHEET NO. 49
70 SHEETS



PLAN-TOP LATERAL SYSTEM

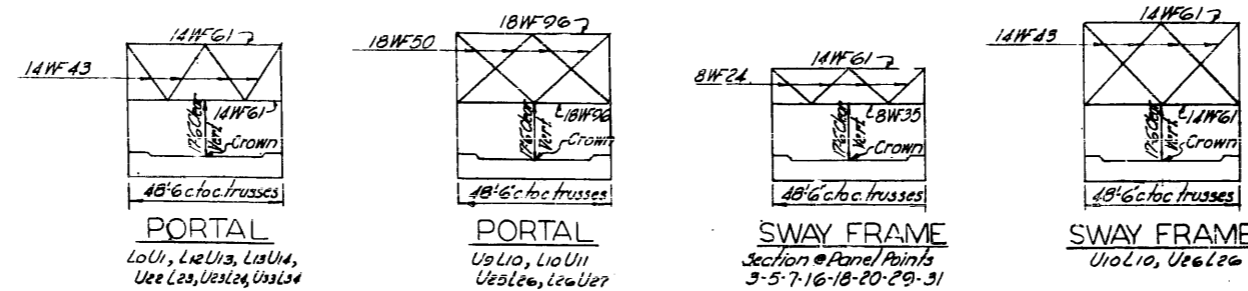


PLAN - BOTTOM LATERALS



FRAMING PLAN - FLOOR STEEL

NOTES:
For location of Approach stringers supported on FBI see West Approach Framing Plan, sh. 17
For location of Approach stringers supported on FB5 see East Approach Framing Plan, sh. 18
All floorbeams are same for Eastbound & Westbound Structures, except FB-1. See table on sh. 50



TRUSS SPANS
FRAMING PLAN
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

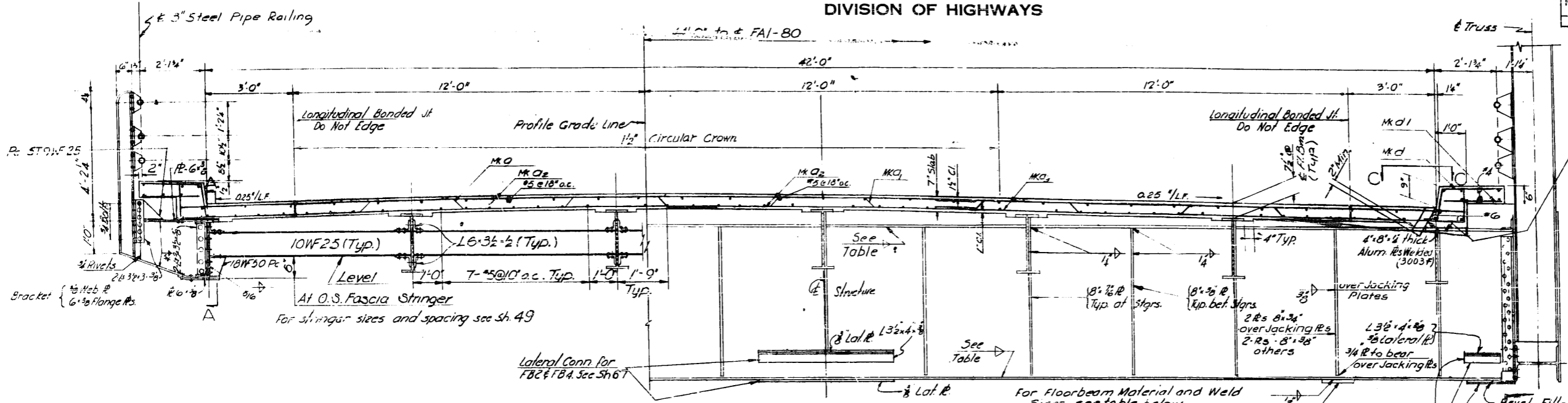
DESIGNED	F.C.L.
CHECKED	H.C.M.
DRAWN	S.R.T.
CHECKED	H.C.M.

FAI ROUTE 80 SECTION 99-3D-E4-F-P PROJECT WILL COUNTY. Date: Dec. 28, 1960
Scale: None
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	50
	99-3E/F		65	44
TR. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
	99-3P		32	33

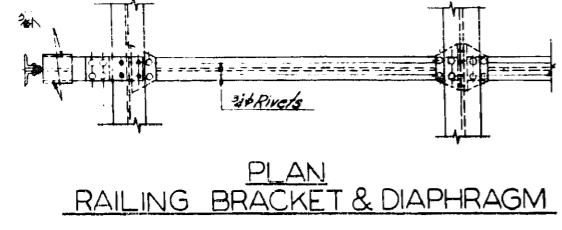
SHEET NO. 50
70 SHEETS



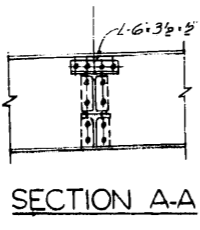
Top of Exterior Stringers Flush With Top of Floor Beams at Posts: (Typ)

Note:
Jacking Plates to be provided at Floorbeams over Piers 6, 7, 8, & 9. (FB-1, FB-5 & FB-6)

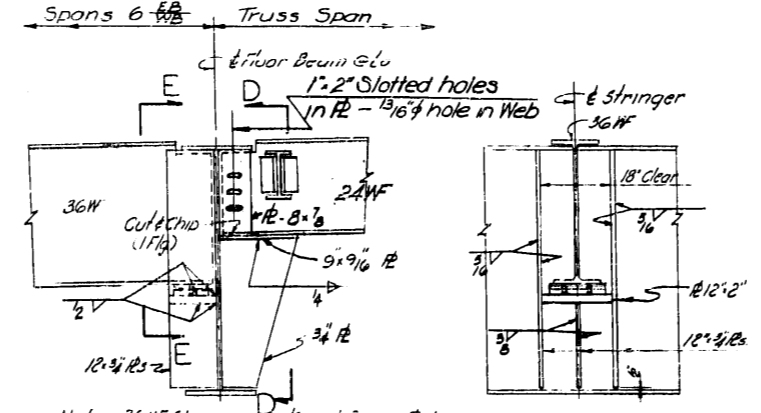
TYPICAL CROSS SECTION



PLAN RAILING BRACKET & DIAPHRAGM

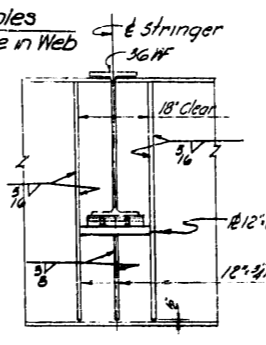


SECTION A-A

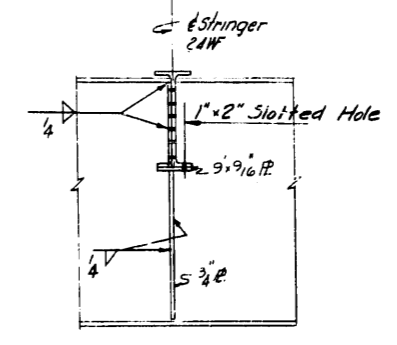


Note: 36WF Stringer Packer & Base R to be paid as Structural Steel, Approach Spans
For Detail of Bearing, See Sht. 25

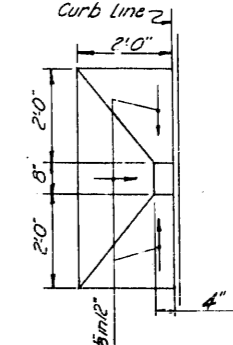
DETAIL AT LO
For Location of Approach Span Stringers, see sht. 17 & 18



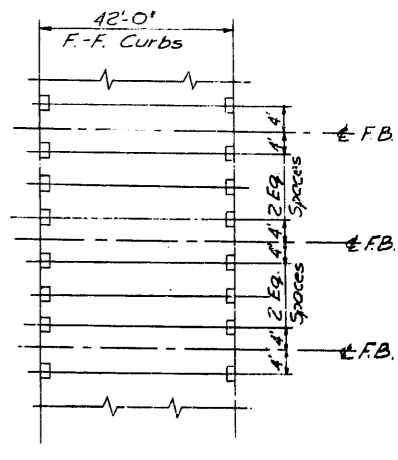
SECTION E-E



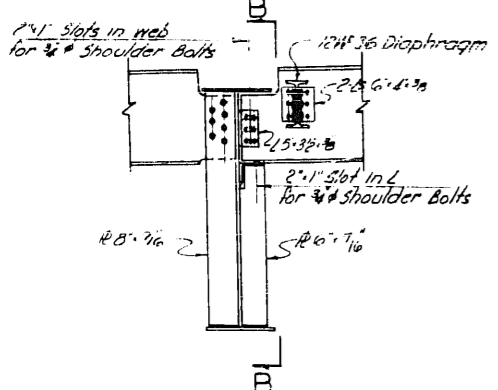
SECTION D-D



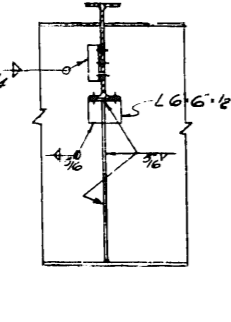
PLAN C-C



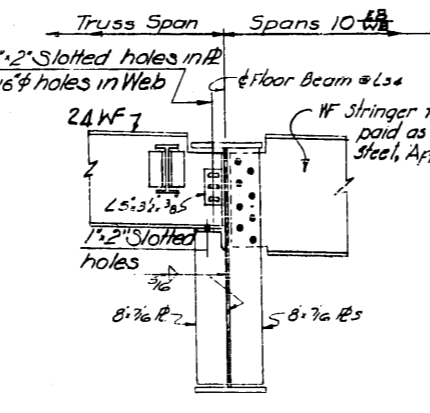
LOCATION SKETCH FLOOR DRAINS (All Panels)



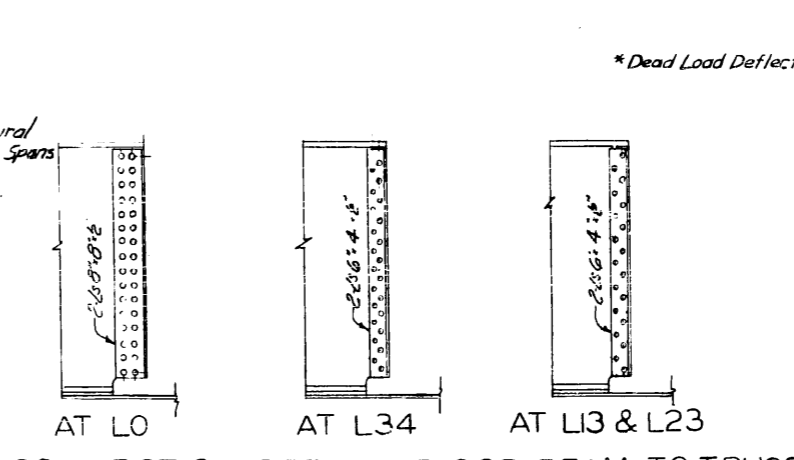
DETAIL AT SLIP STRINGER



SECTION B-B



DETAIL AT L34
STRINGER CONNECTION DETAILS



CONNECTION DETAILS - FLOOR BEAM TO TRUSS

FL. BEAM	WEB	R	2-FLG. RS	WELD	Δ
FB-1 (E.B.)	60 x 3/4	18 x 1/2	5/8	3/8	3/8
FB-1 (W.B.)	60 x 7/8	18 x 1/2	3/8	1/2	1/2
FB-2	60 x 7/8	18 x 3/4	1/4	7/8	7/8
FB-2A	60 x 7/8	18 x 3/4		7/8	7/8
FB-3	58 x 7/8	12 x 1/4		1/4	1/4
FB-4	60 x 7/8	18 x 3/4		7/8	7/8
FB-4A	60 x 7/8	18 x 3/4		7/8	7/8
FB-5	60 x 7/8	18 x 1/2	1/4	7/8	7/8
FB-6	60 x 3/4	18 x 3/4	3/8	3/8	3/8

* Dead Load Deflection at & Floor beam

Floorbeam Material
Web and Flange, R's. to be low alloy steel-A441
Stiffener R's to be structural Carbon Steel A373.

TRUSS SPANS
TYPICAL SECTION & DETAILS
FAI-80 OVER DES PLAINES RIVER
STA. 387 + 94.50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

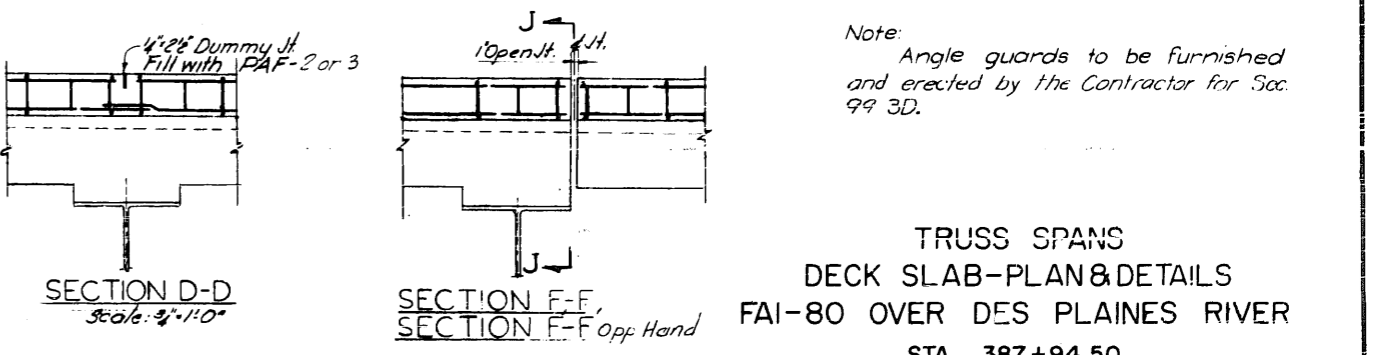
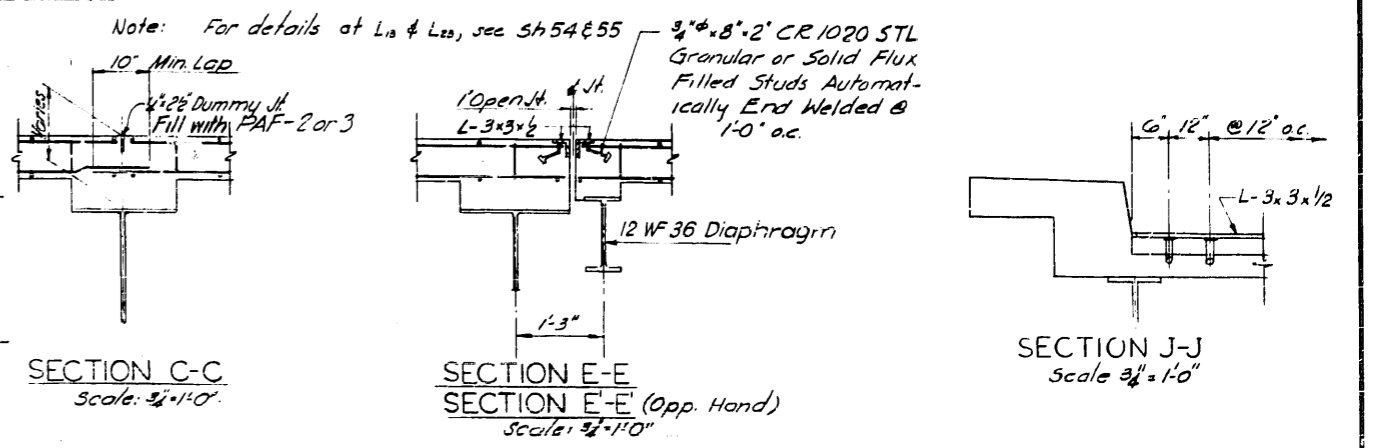
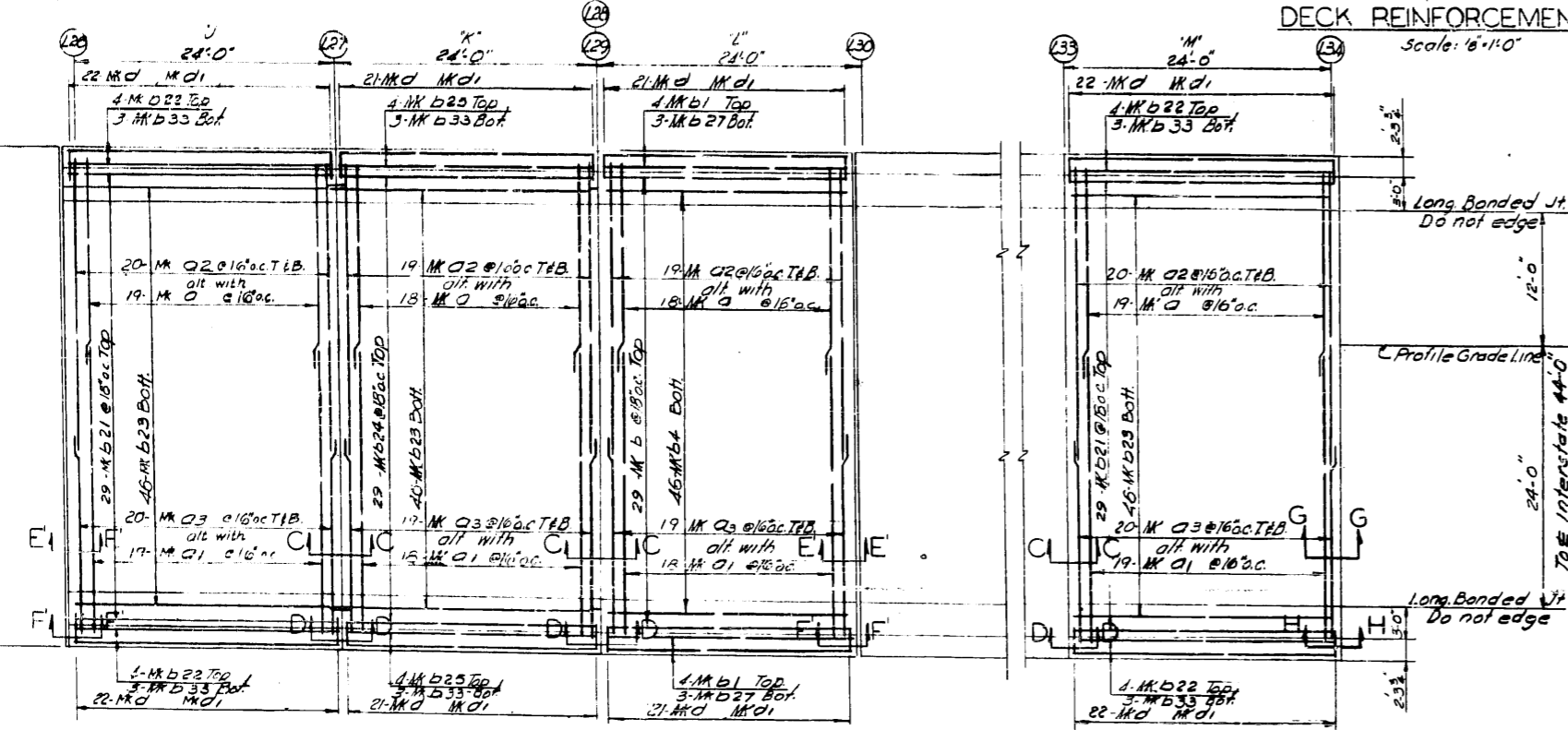
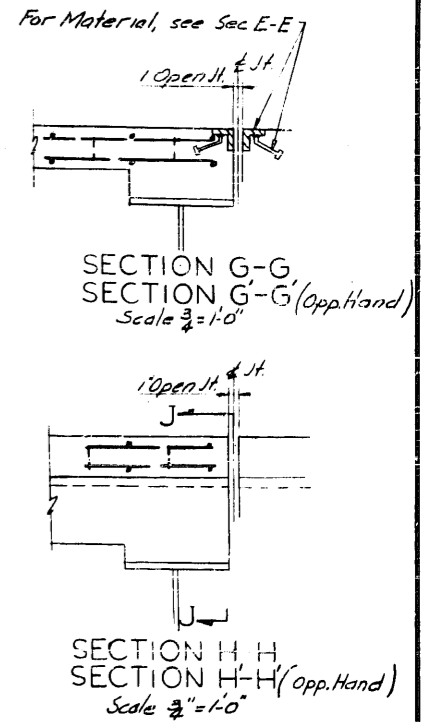
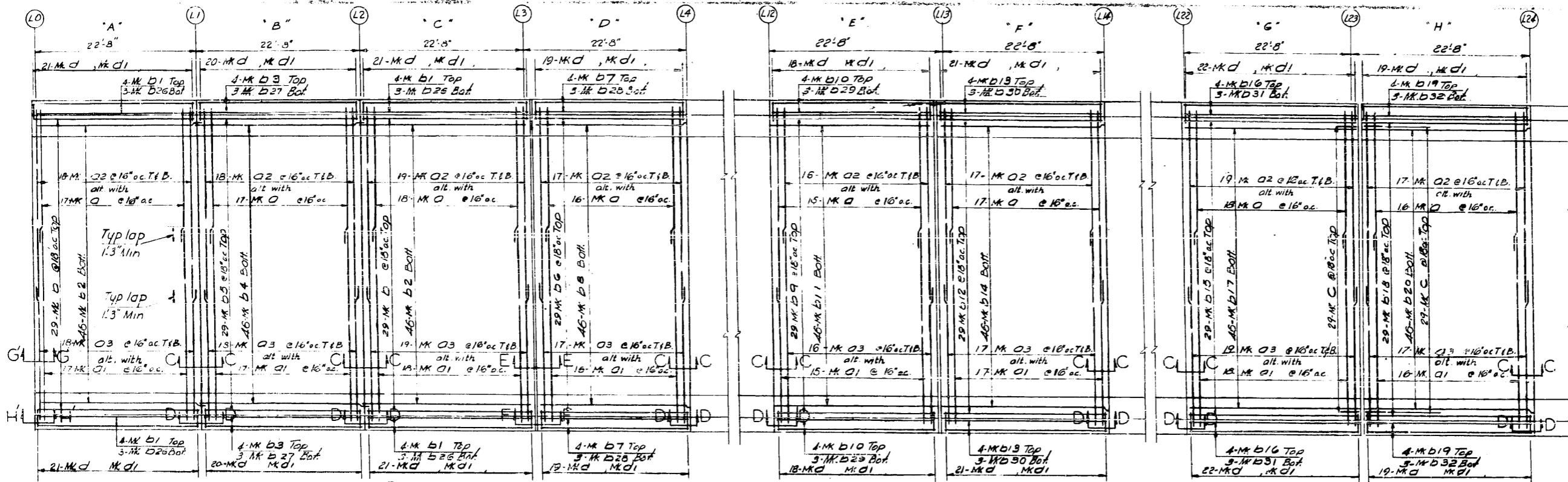
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

DESIGNED	F.C.L.
CHECKED	H.C.M.
DRAWN	J.T.B.
CHECKED	J.T.L.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	51
PER. ROAD DIST. NO. 1	ILLINOIS PROJECT		65	45
			52	34

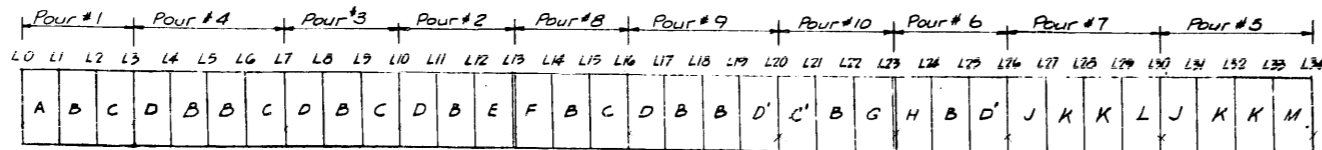
SHEET NO. 51
70 SHEETS



Note: Angle guards to be furnished and erected by the Contractor for Sec. 99 3D.

TRUSS SPANS
DECK SLAB-PLAN & DETAILS
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	FCL
CHECKED	JTL
DRAWN	FCL
CHECKED	JTL



Panels C' & D' are opposite hand to Panels C & D, respectively.

Note: for Spacing of bottom longitudinal reinforcement, See typical Cross-Section, Sh. 50

FAI ROUTE 80
SECTION 99-3D-E&F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

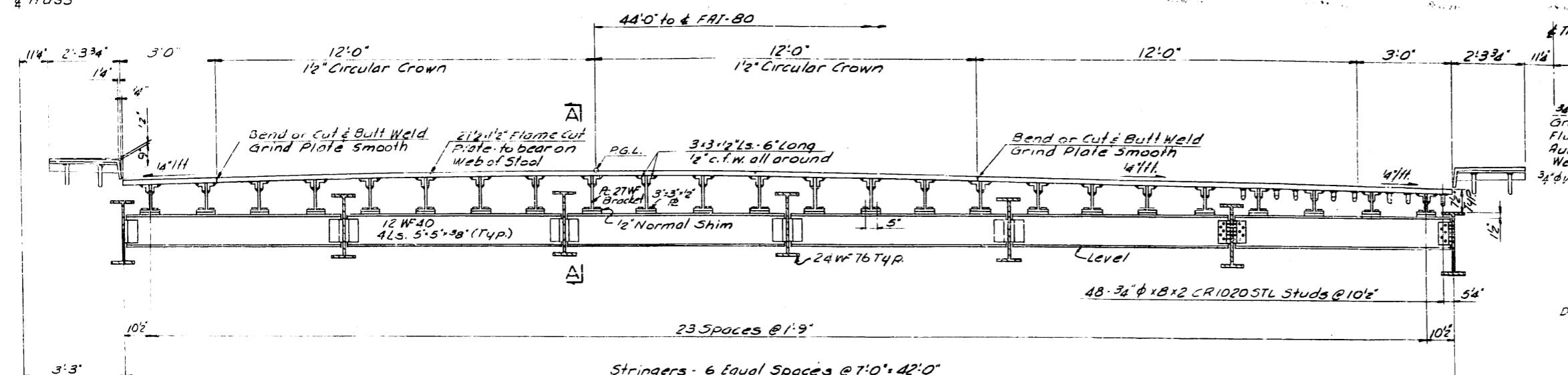
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

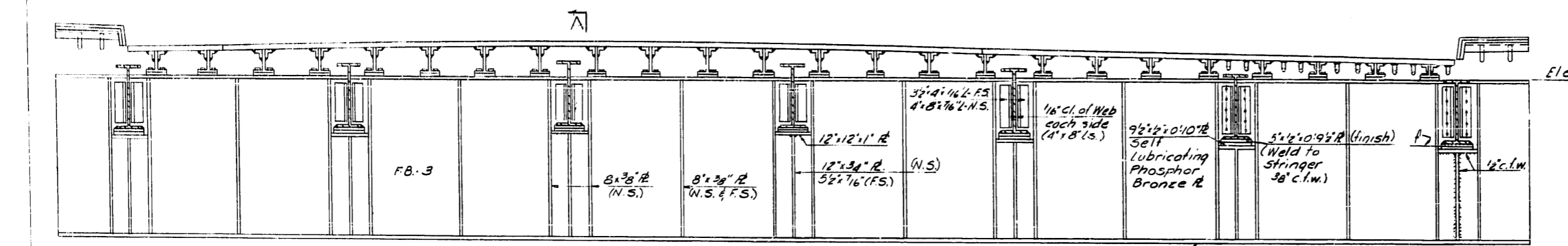
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3D	99-3E/F	WILL	65	54
ILLINOIS PROJECT			32	35

SHEET NO. 54
70 SHEETS

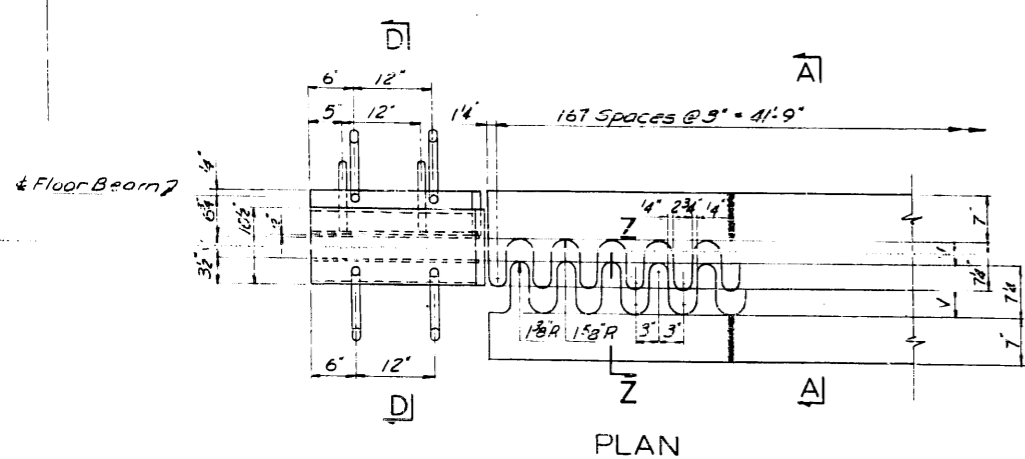
Truss



SECTION B-B

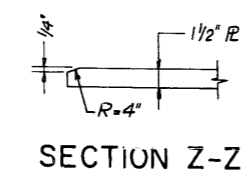


SECTION C-C

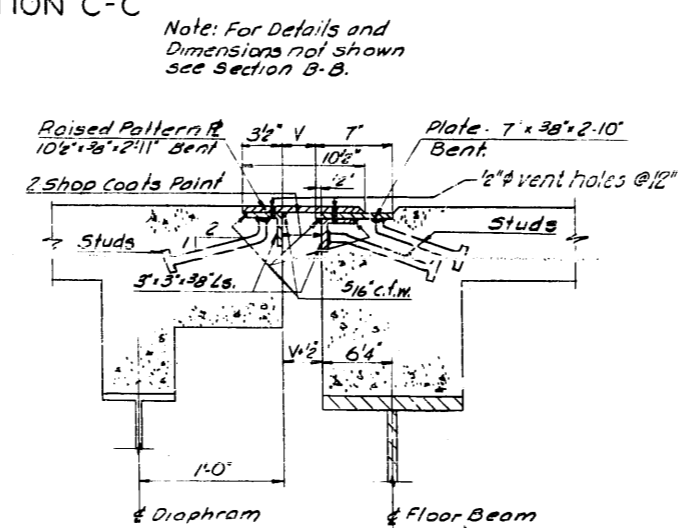


PLAN

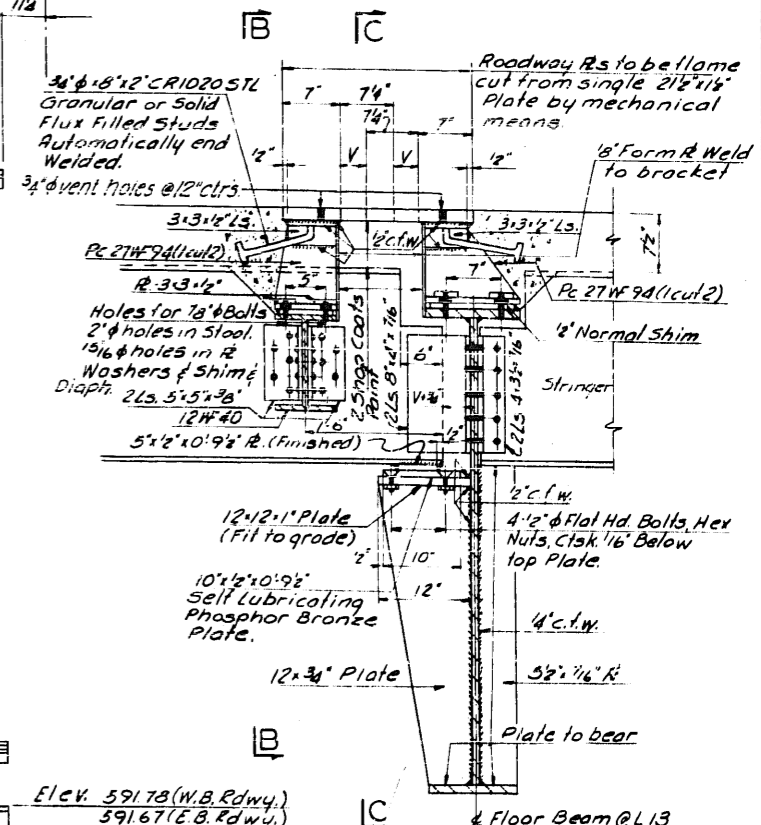
DESIGNED	R.S.
CHECKED	H.M.
DRAWN	R.S.
CHECKED	H.M.



SECTION Z-Z



SECTION D-D



SECTION A-A

OF	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'
V	4 3/8	4 3/8	3 7/8	3 3/4	3 1/4	2 3/4	2 1/2	2 1/2	2 1/8	1 3/4

Notes:
Low Alloy Steel (A441) to be used in Roadway R and Flange & Web of FB-3.
Carbon Steel (A-7) to be used in Diaphragms & Shims.
All other Steel Carbon Steel (A 373).
1/2" Normal Shims to be made up of 1'-0" + 1'-0" + 2'-0" R.
Contractor for Sec. 99-3E/F to provide 50% excess shims (1'-0" + 2'-0" R's.).
Curb expansion devices shall be fabricated and erected by the Contractor for Sec. 99-3D.
Diaphragm Conn Rivets 3/4" φ; Holes 13/16" φ

ANCHOR STUDS

3/4" φ CR 1020 STL Granular or Solid Flux filled Studs-Automatically end welded.

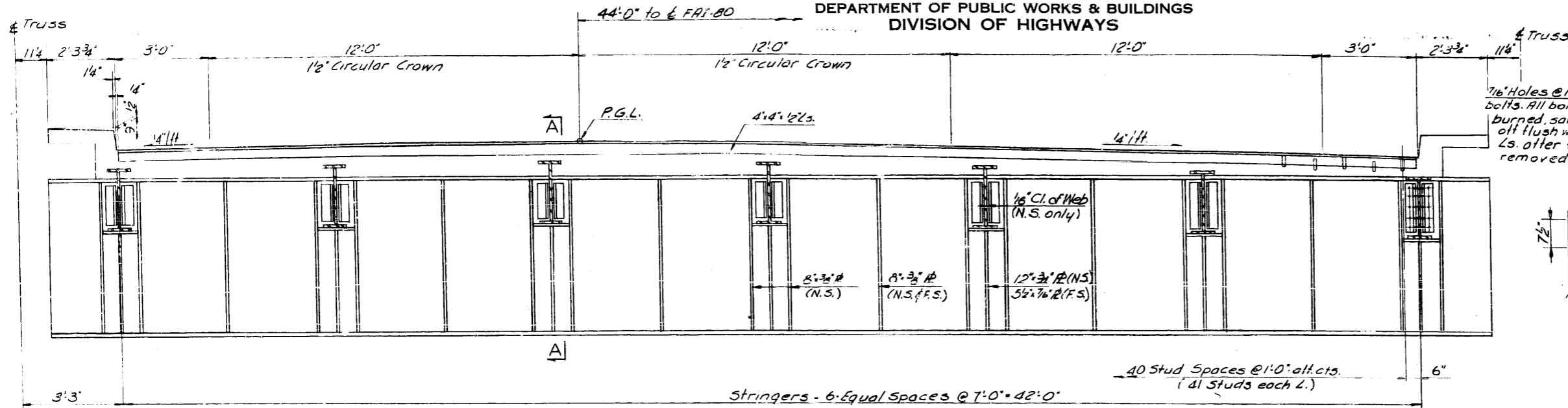
TRUSS SPANS
EXPANSION DAM ED-1
FAI-80 OVER DES PLAINES RIVER
STA. 387+94.50

FAI ROUTE 80 SECTION 99-3D-E/F-P PROJECT WILL COUNTY
Scale: None Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

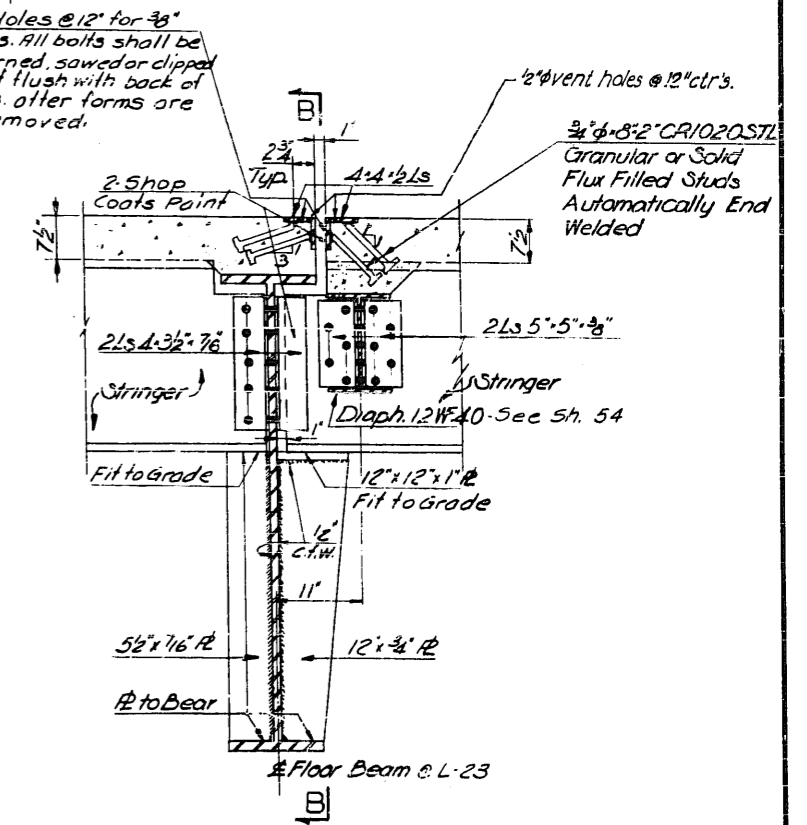
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3D	WILL	58	53
	99-3E/F		68	47
PED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
	99-3P		52	36

SHEET NO. 53
70 SHEETS

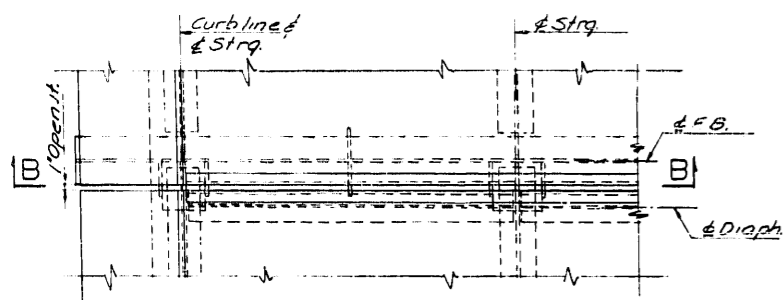


SECTION B-B



SECTION A-A

Note:
Two shop coats point on all inside surfaces of stringer slip device.



PART PLAN

Notes:
For details and dimension of sdwk see sh. 50
Guard angles to be furnished and erected by the Contractor for Sec. 99-3D.
Diaphragm Conn. Rivets 3/4" ϕ
Holes 13/16" ϕ

DESIGNED	RS.
CHECKED	H.M.
DRAWN	F.G.
CHECKED	H.M.

TRUSS SPANS
DEFLECTION JOINT DF-1
FAI-80 OVER DES PLAINES RIVER
STA. 387+94.50

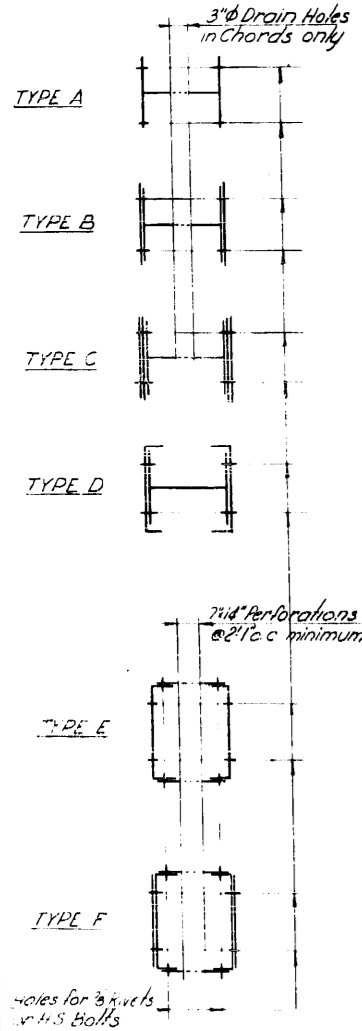
FAI ROUTE 80 PROJECT
SECTION 99-3D-E4-F-P WILL COUNTY
Scale: None Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E4F	WILL	65	49
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	37
99-3P				

SHEET NO 57
70 SHEETS

TYPES OF MEMBERS
Showing net sections used for design.



MEMBER	STRESSES										DESIGN STRESS		SECTION		L F	ALLOWABLE STRESS KSI		AREA REQUIRED		AREA FURNISHED	
	D	L		I		D+L+I		W(b)	T	C	SIZE	TYPE	MAT'L	T		C	GROSS	NET	GROSS (C)	NET	
		T	C	T	C	T	C														T
U ₁ U ₃	-279		137		19		435	-24		435	14WF87	A	L.A.	235	-	1897	2223	-	2430	-	
U ₃ U ₅	-287		205		29		521	-50		521	14WF87	B	C	680	-	1384	3764	-	3930	-	
U ₅ U ₇	-31 -27(a)	191	205	57	29	221	265	+64 -63	354	376	14WF103	A	C	734	1800	1366	2753	1967	2878	2553	
U ₇ U ₉	+461	239		72		772		+62	772		14WF87	B	L.A.	-	2700	-	-	2859	3555	3130	
U ₉ U ₁₀ U ₁₀ U ₁₁	+976	242		73		1291		+37	1291		14WF87	C	L.A.	-	2700	-	-	4781	5430	4755	
U ₁₁ U ₁₃ U ₁₃ U ₁₄	+938	86		26		450		+17	450		14WF103	A	C	-	1800	-	-	2500	2878	2553	
U ₁₃ U ₁₄ U ₂₂ U ₂₃						(Dummy Member)					14BP73	A	C	783	1800	1346	-	-	1994	1792	
U ₁₄ U ₁₆ U ₂₀ U ₂₂	-529		137		20		686	-14		686	14WF87	B	L.A.	683	-	1939	3538	-	3555	-	
U ₁₆ U ₁₈ U ₁₈ U ₂₀	-792		206		29		1027	-31		1027	14WF87	C	L.A.	663	-	1954	5236	-	5430	-	
U ₂₅ U ₂₆	+976	242		73		1291		+29	1291		14WF87	C	L.A.	-	2700	-	-	4781	5430	4755	
U ₂₆ U ₂₇	+913	242		73		1288		+35	1288		14WF87	C	L.A.	-	2700	-	-	4770	5430	4755	
U ₂₇ U ₂₉	+480	223		67		770		+52	770		14WF87	B	L.A.	-	2700	-	-	2852	3555	3130	
U ₂₉ U ₃₁	+43 +33(a)	159	159	48	25	250	51	-53 +44	326	276	14WF87	A	C	778	1800	1348	2047	1811	2430	2155	
U ₃₁ U ₃₃	-129		119		19		268	-23		268	14BP73	A	C	825	-	1330	2015	-	1994	-	
L ₀ L ₂	+173	77		11		261		+23	261		14BP73	A	C	-	1800	-	-	1450	1994	1792	
L ₂ L ₄	+316	180		26		522		+26	522		14WF87	A	L.A.	-	2700	-	-	1933	2430	2155	
L ₄ L ₆	+194 +160(a)	215	159	31	48	440	47	+20 -33(d)	472	267	14WF87	A	L.A.	733	2700	1897	1407	1743	2430	2155	
L ₆ L ₈	-196 -159(a)	180	223	26	67	47	486	-87 +64(d)	290	531	14WF87	B	C	680	1800	1384	3837	1611	3930	3455	
L ₈ L ₁₀	-748		251		75		1074	-179		1074	14WF87, 2-R 15" x 9/16", 2-R 15" x 6"	C	L.A.	662	-	1953	5494	-	5618	-	
L ₁₀ L ₁₂ L ₂₄ L ₂₆	-691		174		52		917	-162		917	14WF87	B	L.A.	670	-	1949	4705	-	4680	-	
L ₁₂ L ₁₃ L ₂₃ L ₂₄						(Dummy Member)					14BP73	A	C	783	1800	1346	-	-	1994	1792	
L ₁₃ L ₁₅ L ₂₁ L ₂₃	+298	77		11		386		+78	386		14WF87	A	C	-	1800	-	-	2144	2430	2155	
L ₁₅ L ₁₇ L ₁₉ L ₂₁	+694	180		26		900		+108	900		14WF87	B	L.A.	-	2700	-	-	3333	3930	3455	
L ₁₇ L ₁₉	+826	215		31		1072		+108	1072		14WF87	B	L.A.	-	2700	-	-	3970	4493	3943	
L ₂₆ L ₂₈	-753		244		73		1070	-180		1070	14WF87, 2-R 15" x 9/16", 2-R 15" x 6"	C	L.A.	700	-	1926	5536	-	5618	-	
L ₂₈ L ₃₀	-240 -196(a)	149	-199	22	60		499	+87 +63(d)	514		14WF87	B	C	720	-	1370	3752	-	3930	-	
L ₃₀ L ₃₂	+81 +68(a)	150	119	24	36	255	87	+22 -24(d)	300	217	14BP73	A	C	825	1800	1330	1632	1667	1994	1792	
L ₃₂ L ₃₄	+101	70		11		182		+10	182		14BP73	A	C	-	1800	-	-	1011	1994	1792	

STRESS TABLE NOTES:
(a) Minimum Dead Load = 90% D.L. without future wearing surface or utilities.
(b) Wind stress from force of 75 p.s.f. unless noted.
(c) Gross area of chords are effective gross areas with 3" drain holes deducted.
(d) Wind stress due to 30% W₁₅ + W_L + L_F.
(e) Min. D.L. + L_F.
(f) Equivalent load due to bending.
(g) Allowable stress for Group II (AASHTO P141) loading.

DESIGNED	H.C.M. & J.T.L.
CHECKED	J.T.L. & H.C.M.
DRAWN	J.T.B.
CHECKED	J.T.L.

TRUSS SPANS
STRESS TABLE - I
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

FAI ROUTE 80
SECTION 99-3E4F-P
Scale:
PROJECT
WILL COUNTY
Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-3E4F	WILL	65	50
PROJECT		52	38

70 SHEETS

MEMBER	STRESSES								DESIGN STRESS		SECTION			ALLOWABLE STRESS		AREA REQUIRED		AREA FURNISHED			
	D	L		I		D+L+I		W(L)	T	C	SIZE	TYPE	MAT'L	T	C	GROSS	NET	GROSS	NET		
		T	C	T	C	T	C														
L0 U1	-318		155		22		495	-324(F)		642	14WF53	2-15[33.9]	D	L.A.	1141	-	1838(9)	34.96	-	35.39	-
U1 L2	+195	126		19		340		+9	340		14BP73		A	C	-	18.00	-	18.89	21.46	19.43	
L2 U3	-72 -60(G)	71	101	21	17	32	190	-9 +13	127	206	14WF38	2-15[33.9]	D	C	1093	18.00	12.01	17.15	7.06	30.97	27.32
U3 L4	-51 -41(G)	78	76	14	23	51	150	-9 +18	126	176	14WF38	2-15[33.9]	D	C	1093	18.00	12.01	14.65	7.00	30.97	27.32
L4 U5	+174	90		27		291		+9	291		14BP73		A	C	-	18.00	-	16.17	21.46	19.43	
U5 L6	-297		107		32		436	-9	436		14WF43	2-15[40.0]	D	C	1105	-	11.94	36.52	-	36.05	-
L6 U7	+420	127		38		585		+9	585		14WF57		A	L.A.	-	27.00	-	-	21.67	25.56	22.81
U7 L8	-483		138		26		647	-4	647		14WF53	2-15[50.0]	D	L.A.	1143	-	14.69	44.04	-	44.87	-
L8 U9	+583	161		28		772		+4	772		14WF53	2-2 1/2" x 3/8"	B	L.A.	-	27.00	-	-	28.59	34.34	29.21
U9 L10	-306		149		21		476	-57(H)	897		2-18[58.0]	2-R(15-7) x 3/8"	E	L.A.	812	-	22.89(9)	39.22	-	39.96	-
L10 U11	U25 L26	-422		123		37		582	398(F)	820	2-18[51.9]	2-R(15-7) x 3/8"	E	L.A.	795	-	23.08(9)	35.55	-	36.36	-
U11 L12	L24 U25	+715	194		58		967	+28	967		14WF87	2-R 15" x 1/2"	B	L.A.	-	27.00	-	-	35.81	40.56	35.81
L12 U13	U23 L24	-618		172		52		842	-155(F)	842	2-18[58.0]	2-R(15-7) x 3/8"	E	L.A.	706	-	19.21	43.83	-	43.96	-
L13 U14	U22 L23	-547		155		22		724	-356(F)	933	2-18[58.0]	2-R(15-7) x 3/8"	E	L.A.	137	-	23.70(9)	39.40	-	39.96	-
U14 L15	L21 U22	+425	126		19		570	-66	570		14WF87		A	L.A.	-	27.00	-	-	21.11	25.56	22.81
L15 U16	U20 L21	-304		101		17		422	+47	422	14WF43	2-15[40.0]	D	C	1105	-	11.94	35.34	-	36.05	-
U16 L17	L19 U20	+183	78		14		275	-28	275		14BP73		A	C	-	18.00	-	-	15.28	21.46	19.43
L17 U18	U18 L19	-61		58		12		131	+10	131	14WF38	2-15[33.9]	D	C	1093	-	12.01	10.90	-	30.97	-
L26 U27		-283		131		21		435	-50(F)	784	2-18[51.9]	2-R(15-7) x 3/8"	E	L.A.	831	-	22.66(9)	34.60	-	36.36	-
U27 L28		+533	149		28		710	+6	710		14WF53	2-2 1/2" x 1/2"	B	L.A.	-	27.00	-	-	26.30	30.59	25.96
L28 U29		-421		124		28		573	-7	573	14WF53	2-15[40.0]	D	L.A.	115.9	-	14.47	39.60	-	38.99	-
U29 L30		+350	114		30		494	+11	494		14WF103		A	C	-	18.00	-	-	27.44	30.26	27.01
L30 U31		-217		94		27		338	-11	338	14WF38	2-15[33.9]	D	C	1111	-	11.92	28.36	-	30.97	-
U31 L32		+85 +69(G)	83	78	25	15	193	24 -9(D)	206	123	14WF38	2-15[33.9]	D	C	1111	18.00	11.92	10.32	11.44	30.97	27.32
L32 U33		+48 +40(G)	105	78	18	23	171	61 -13	202	147	14WF38	2-15[33.9]	D	C	1111	18.00	11.92	12.33	11.22	30.97	27.32
U33 L34		-180		135		21		336	-342(F)	527	14WF38	2-15[33.9]	D	L.A.	1111	-	18.86(9)	27.92	-	30.97	-
U3 L13	U23 L23	+557	155		47		759		759		14WF53	2-R 15" x 5/8"	B	L.A.	-	27.00	-	-	28.11	34.34	29.21
Others (Max.)		+103	71		21		200		200		14WF61		A	C	-	18.00	-	-	11.11	17.94	15.37
U10 L10	U26 L26	-792		211		63		1066	-37	1066	2-18[58.0], 2-R(15-7) x 3/8", 2-R 18" x 3/8"		F	L.A.	958	-	16.86	63.23	-	62.46	-
U6 L6	U12 L12										14WF87		A	C	1216	-	-	-	-	25.56	-
U28 L28	U24 L24										14BP73		A	C	1203	-	-	-	-	21.46	-
Others																					

Note:
For Nomenclature and Types of Members,
See Sh. 57

TRUSS SPANS
STRESS TABLE - 2
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

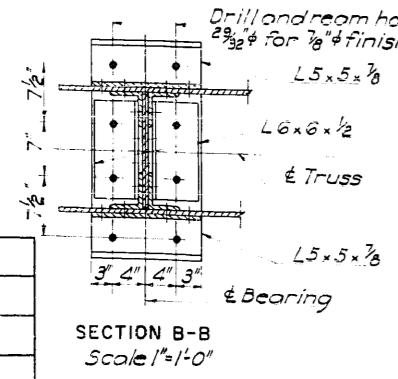
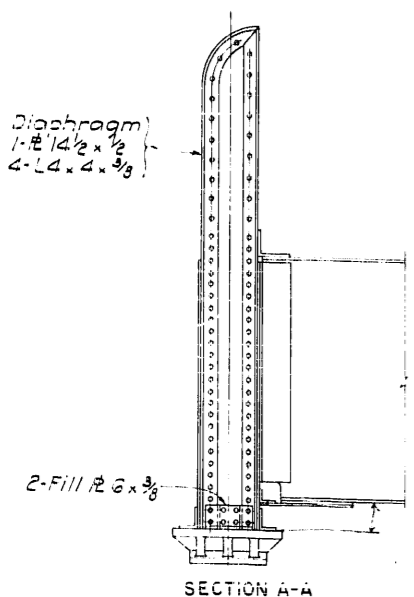
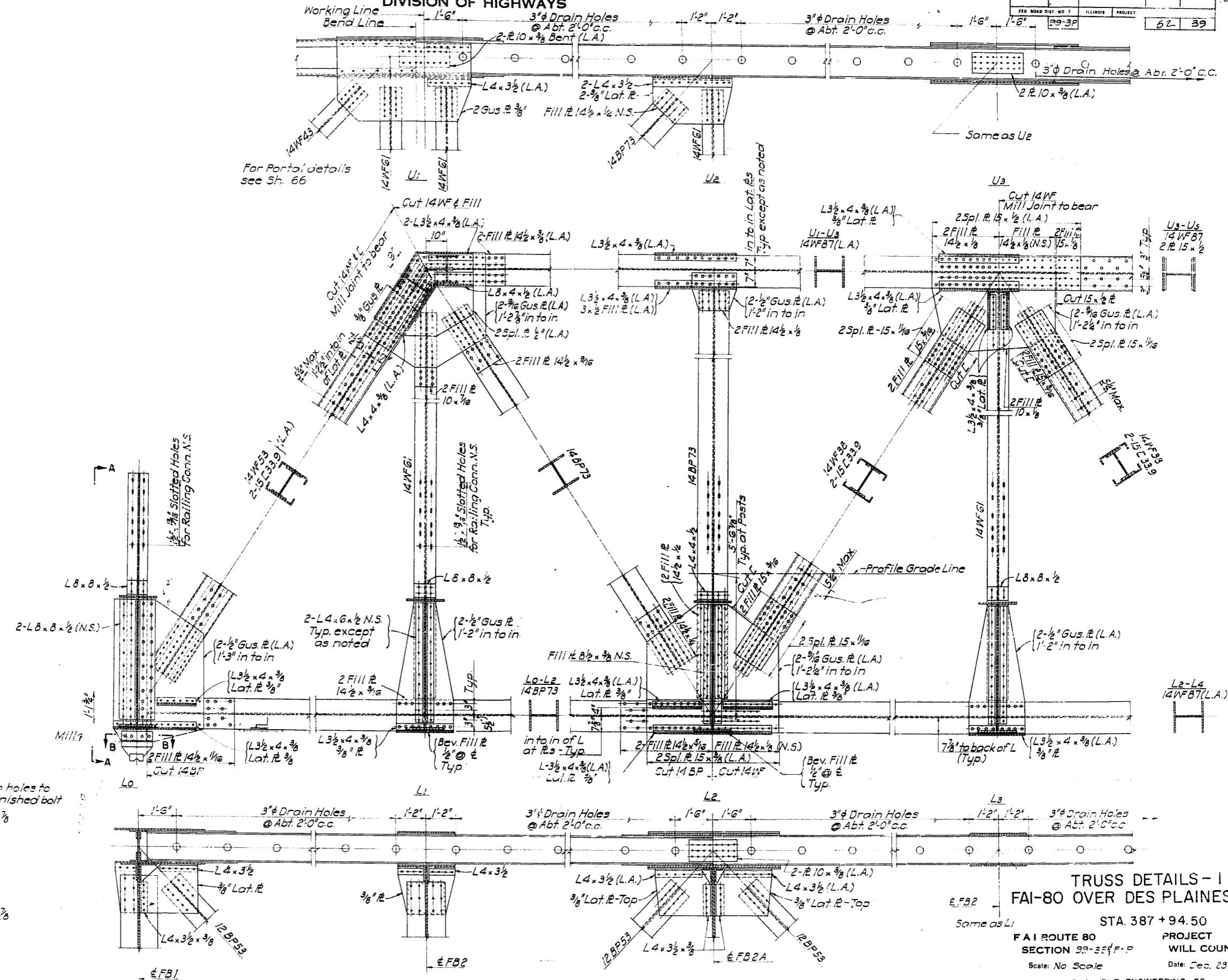
FAI ROUTE 80
SECTION 99-3E4F-P
Scale: None
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

DESIGNED HCM & JTL
CHECKED JTL & HCM
DRAWN JTB
CHECKED JTL

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E4F	WILL	65	51
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		62-39	



DESIGNED	J.M.
CHECKED	P.S.S.
DRAWN	J.M.
CHECKED	P.S.S.

TRUSS DETAILS - I
FAI-80 OVER DES PLAINES RIVER

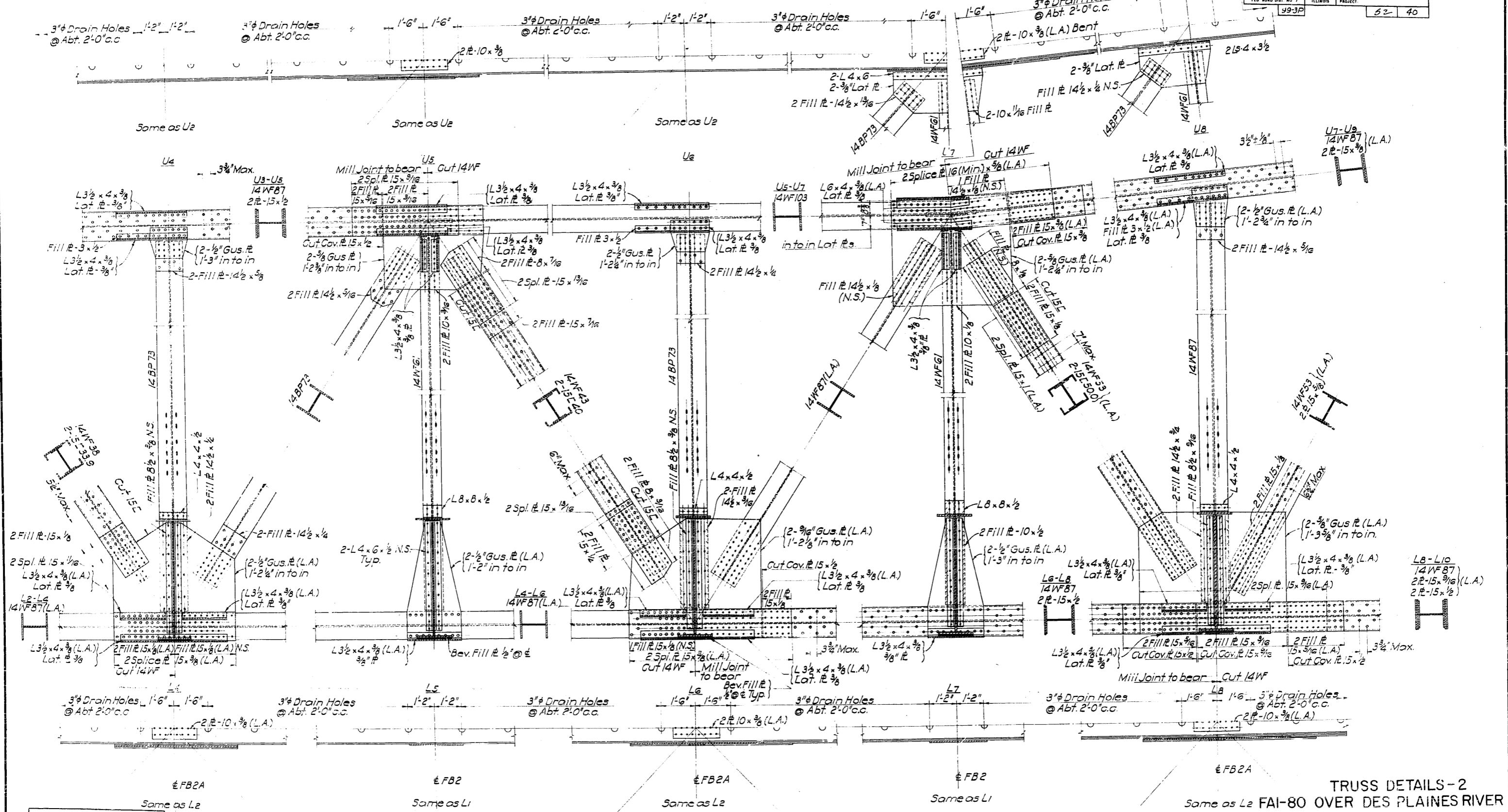
STA. 387 + 94.50
PROJECT WILL COUNTY
Date: Dec. 23, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

Note:
For Portal Details, see sh. 66
For Lateral Bracing Details, see sh. 67

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3EF	WILL	68	68
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		52	40

SHEET NO. 60
70 SHEETS



TRUSS DETAILS-2
FAI-80 OVER DES PLAINES RIVER
STA. 387 + 94.50

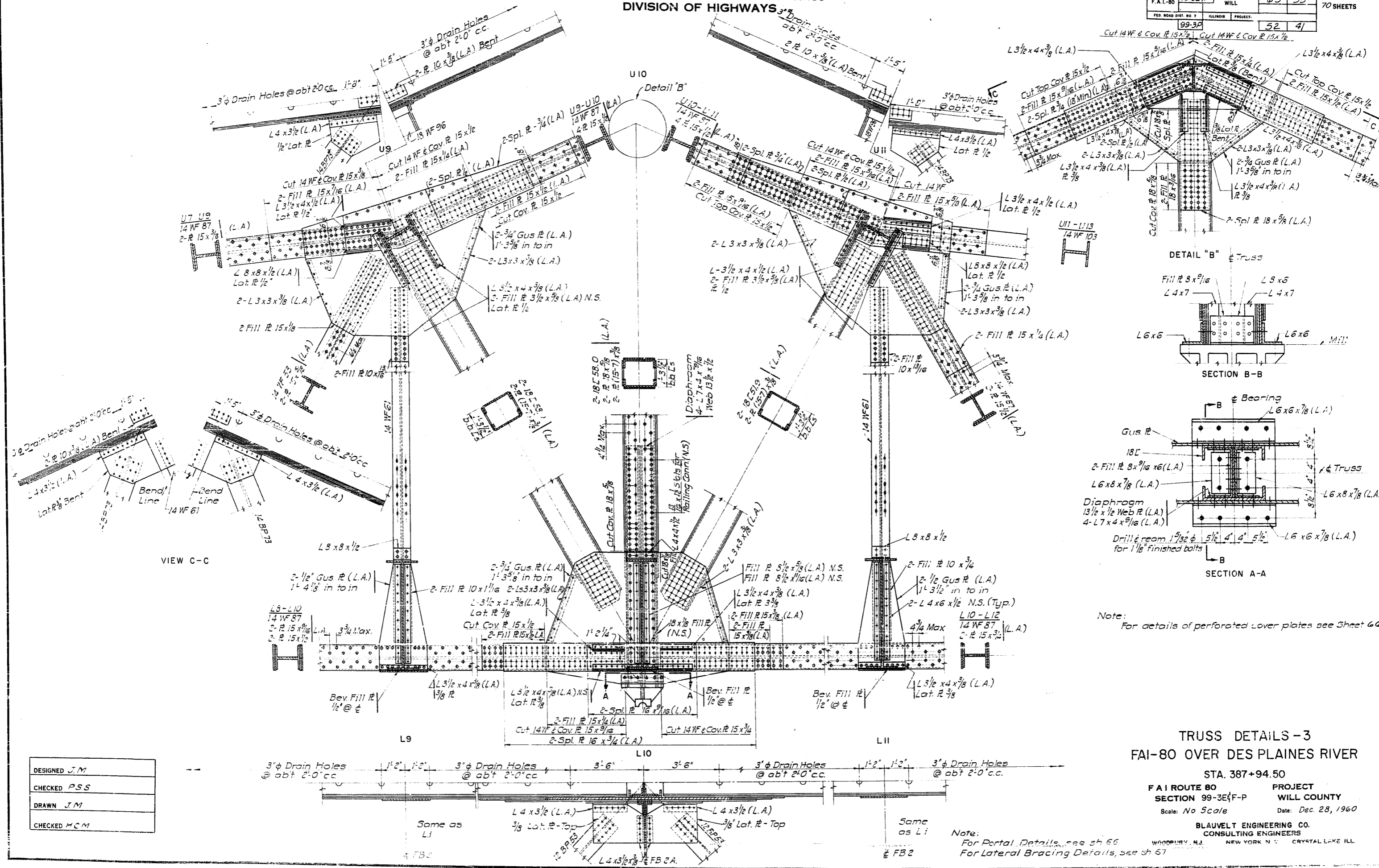
DESIGNED	J.M.
CHECKED	H.C.M.
DRAWN	J.M.
CHECKED	P.S.S.

Note:
For Portal Details, see sh. 66
For Lateral Bracing Details, see sh. 67

FAI ROUTE 80
SECTION 99-3EF-P
Scale: No Scale
PROJECT
WILL COUNTY
Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. (CRYSTAL LAKE, ILL.)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 61
F.A.I.-80	99-3E4F	WILL	65	53	70 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT:			52	41



DESIGNED	J.M.
CHECKED	P.S.S.
DRAWN	J.M.
CHECKED	H.C.M.

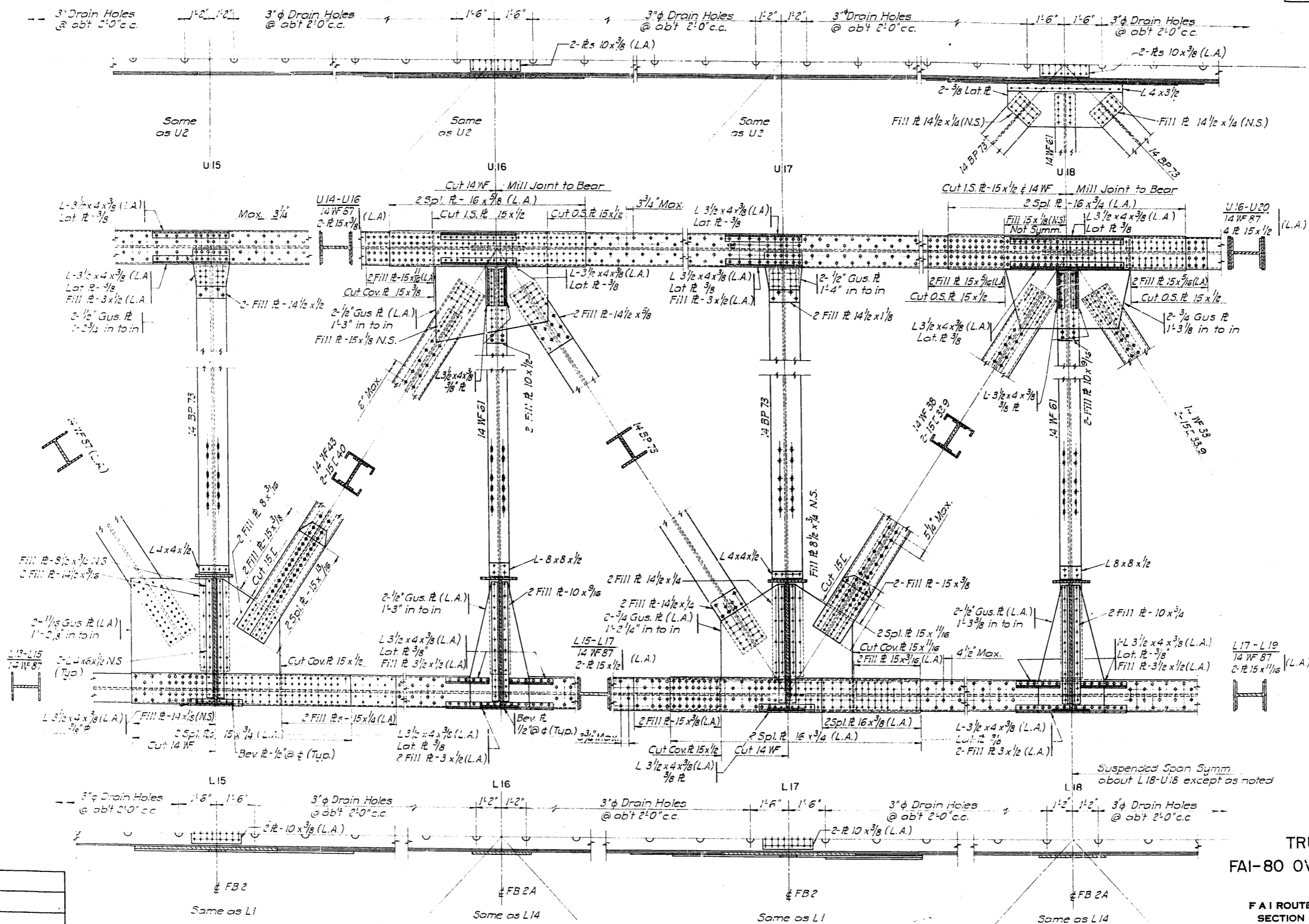
TRUSS DETAILS - 3
FAI-80 OVER DES PLAINES RIVER

STA. 387+94.50
F A I ROUTE 80 SECTION 99-3E4F-P PROJECT WILL COUNTY
Scale: No Scale Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
WOODRUFF, N.J. NEW YORK N.Y. CRYSTAL LAKE, ILL.

Note:
For Portal Details, see sh 55
For Lateral Bracing Details, see sh 57

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 80	99-3E4F-P	WILL	53	53
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	43
			99-3D	



DESIGNED J.M.
CHECKED H.C.M.
DRAWN J.M.
CHECKED H.C.M.

TRUSS DETAILS-5
FAI-80 OVER DES PLAINES RIVER

STA. 387+94.50
FAI ROUTE 80 SECTION 99-3E4F-P PROJECT WILL COUNTY
Scale: No Scale Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WILMUR, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

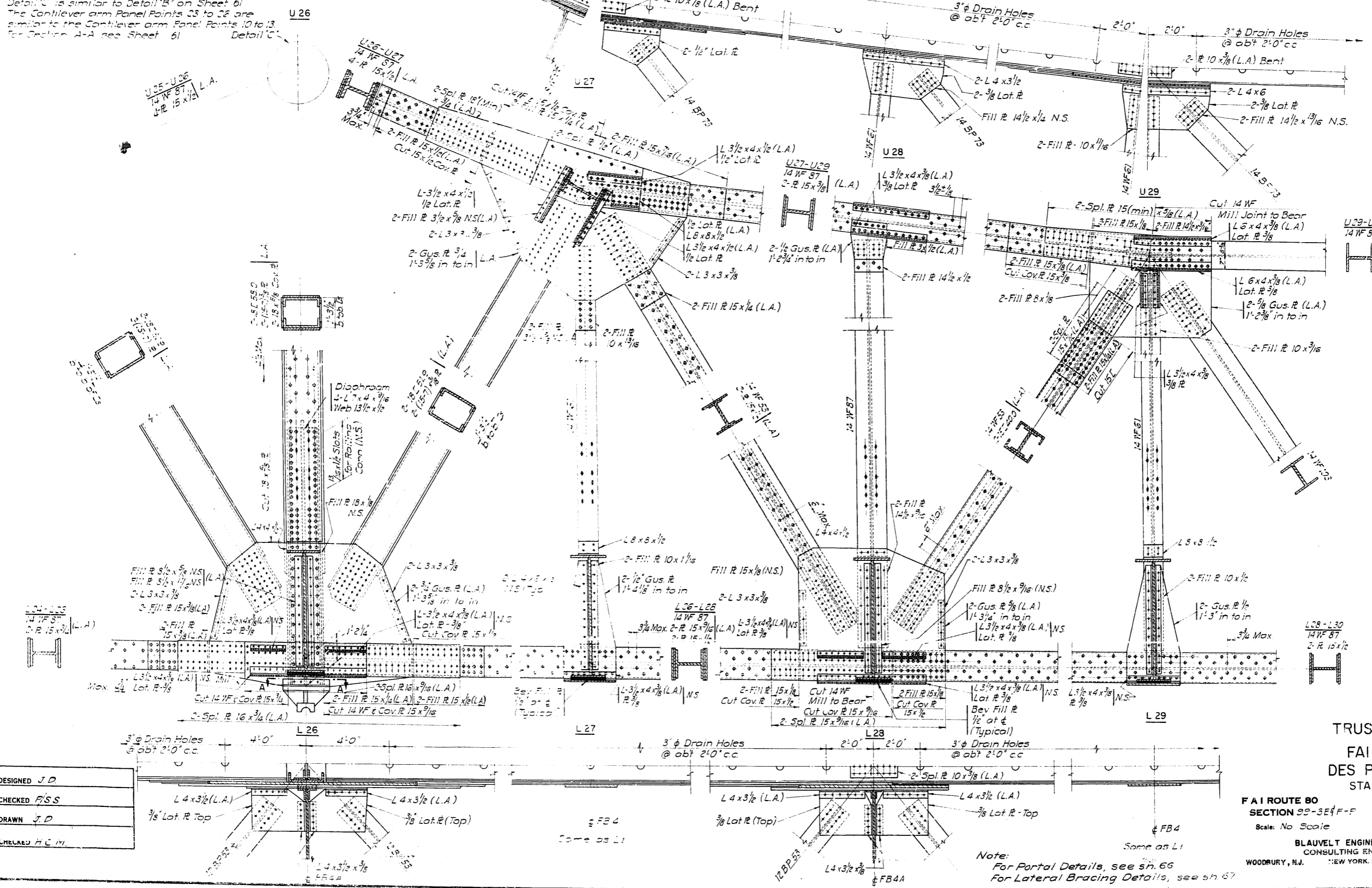
Note:
For Portal Details, see sh. 66
For Lateral Bracing Details, see sh. 67

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3E4F	WILL	65	56
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			
	99-3P		52	44

SHEET NO. 64
70 SHEETS

Note:
Detail 'C' is similar to Detail 'B' on Sheet 61
The Cantilever arm Panel Points 23 to 26 are similar to the Cantilever arm Panel Points 10 to 13. For Section A-A see Sheet 61 Detail 'C'



TRUSS DETAILS - G
FAI-80 OVER
DES PLAINES RIVER
STA. 387 + 94.50

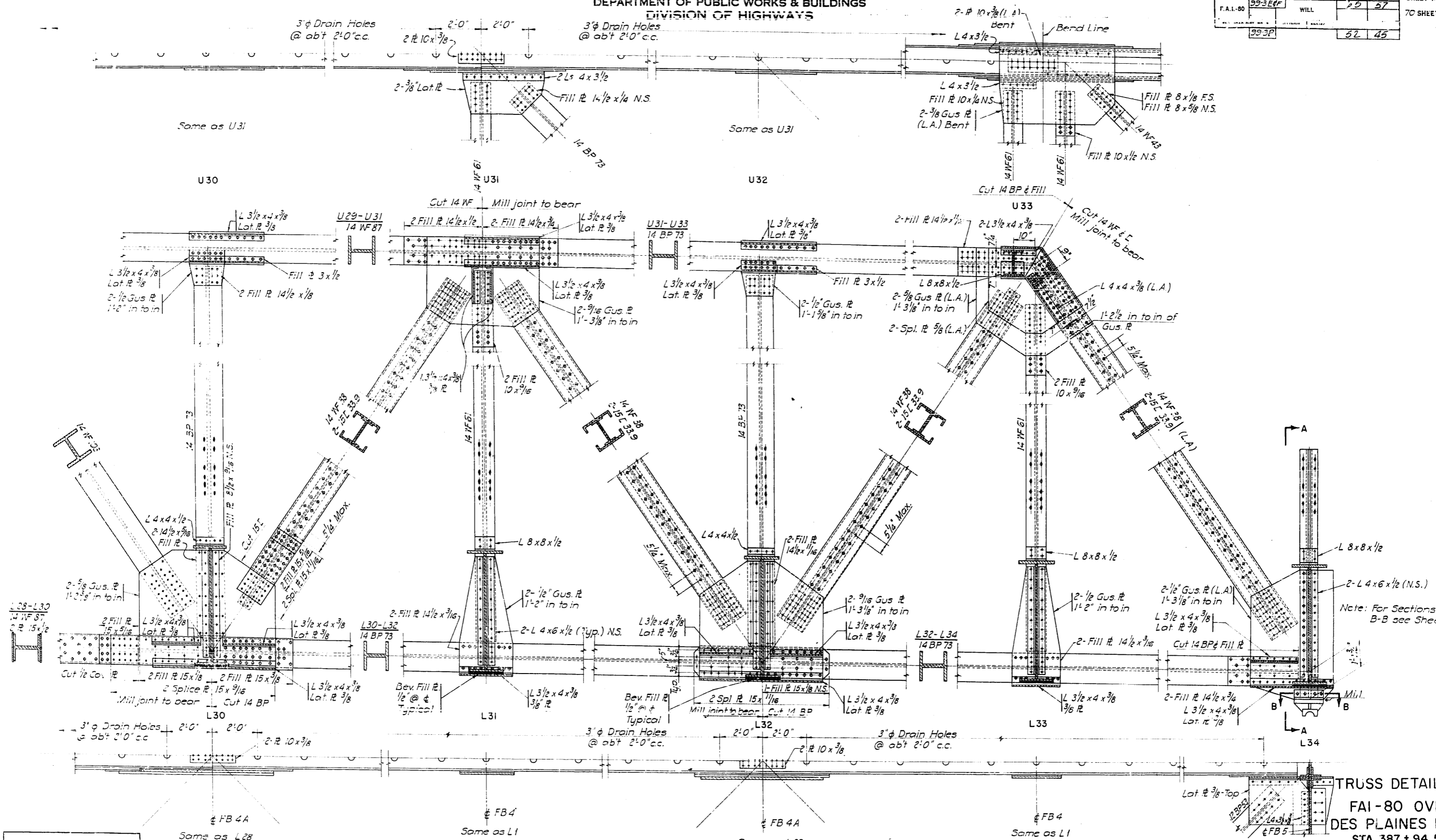
FAI ROUTE 80
SECTION 99-3E4F-F
Scale: No Scale
PROJECT
WILL COUNTY
Date: Dec. 13, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODRURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

DESIGNED J.D.
CHECKED F.S.S.
DRAWN J.D.
CHECKED H.C.M.

Note:
For Portal Details, see sh. 65
For Lateral Bracing Details, see sh. 67

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-3E4F	WILL	57	65
	993P		52	45



DESIGNED	J.D.
CHECKED	P.S.S.
DRAWN	J.D.
CHECKED	H.C.V.

TRUSS DETAILS - 7
FAI-80 OVER
DES PLAINES RIVER
STA. 387 + 94.50

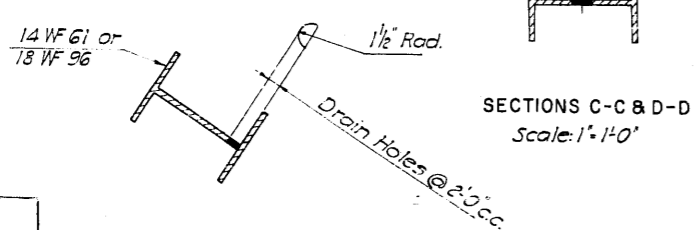
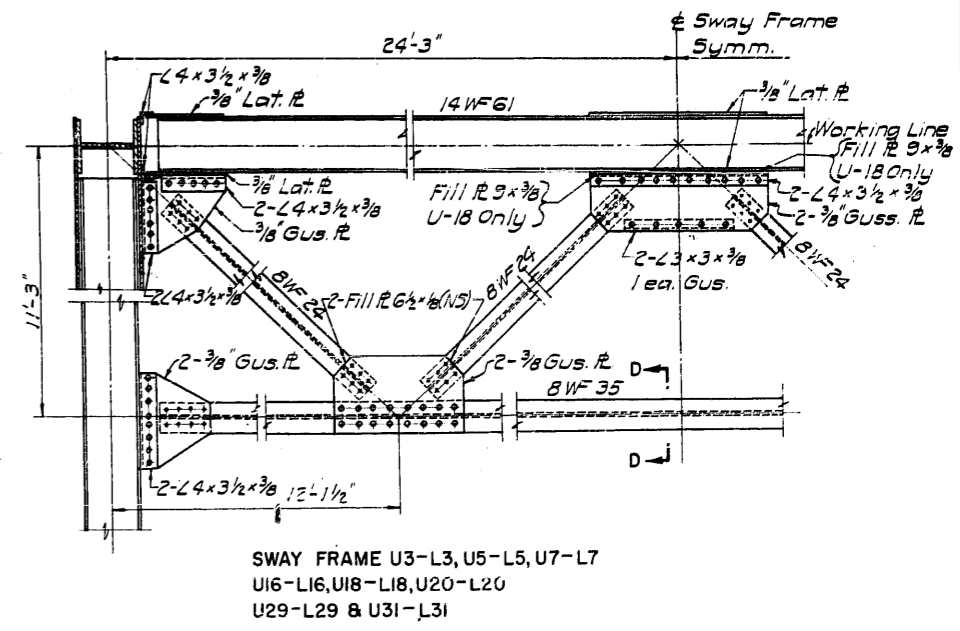
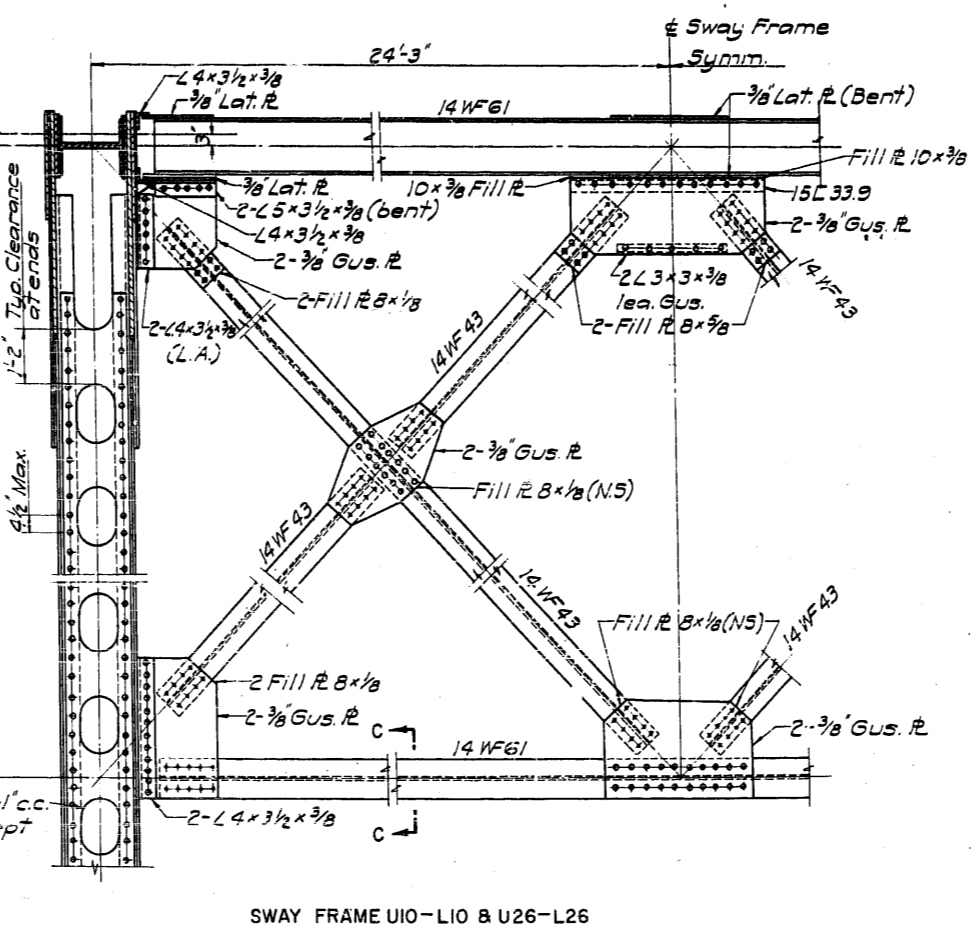
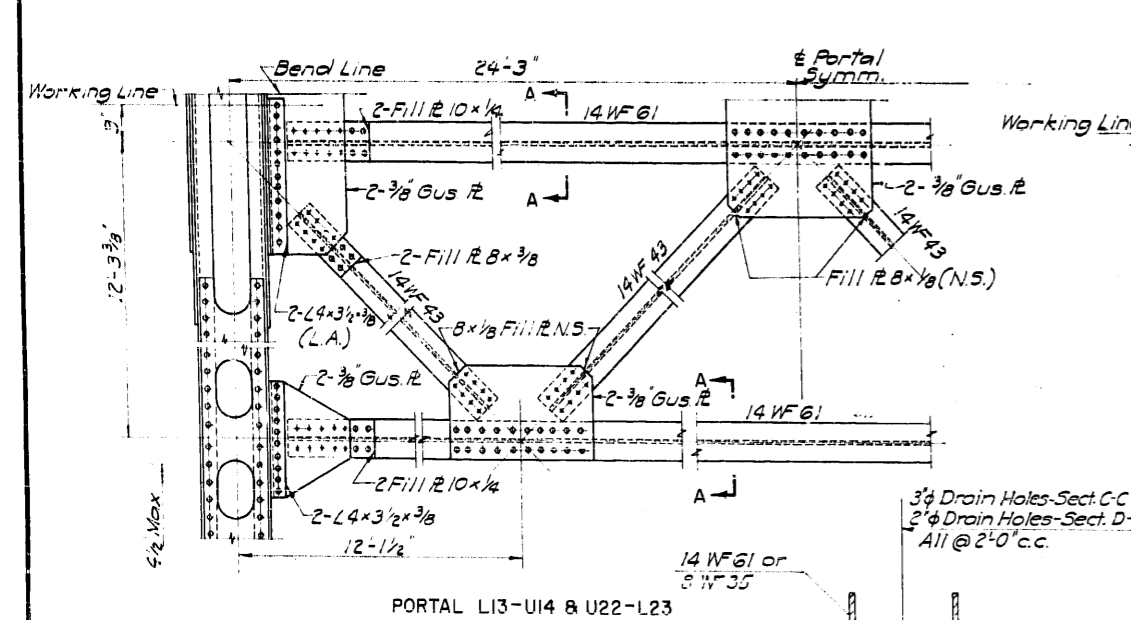
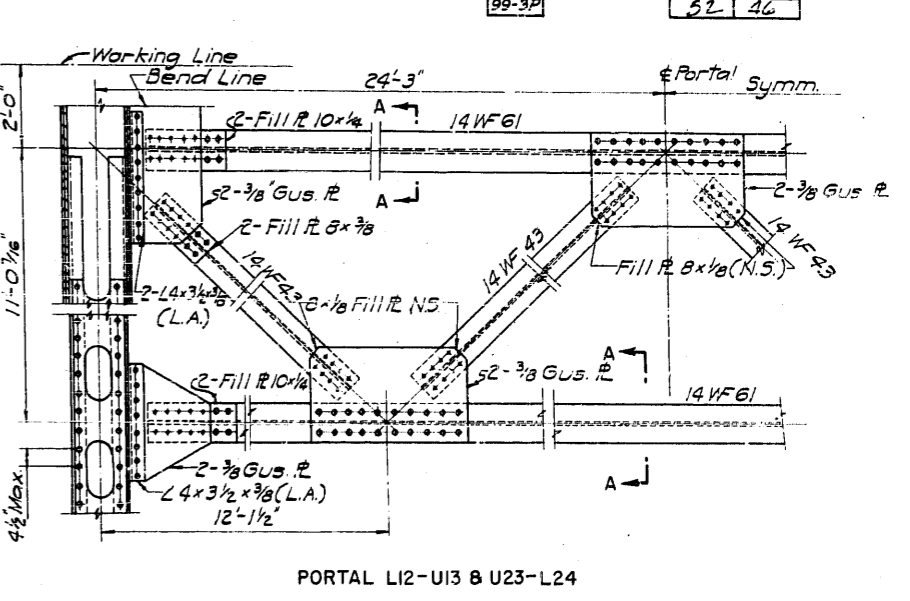
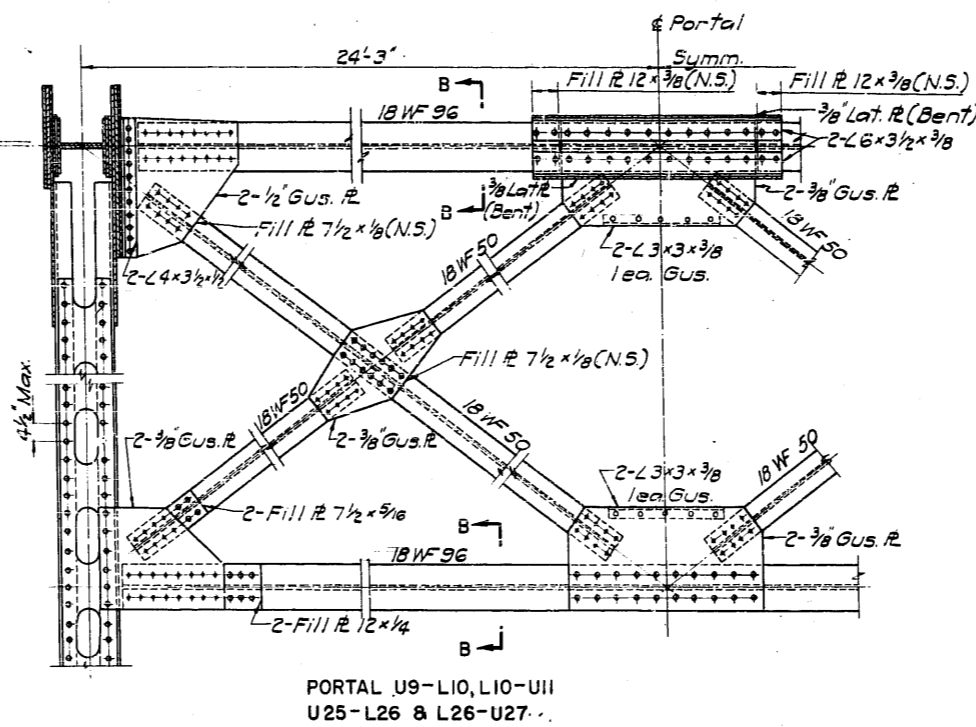
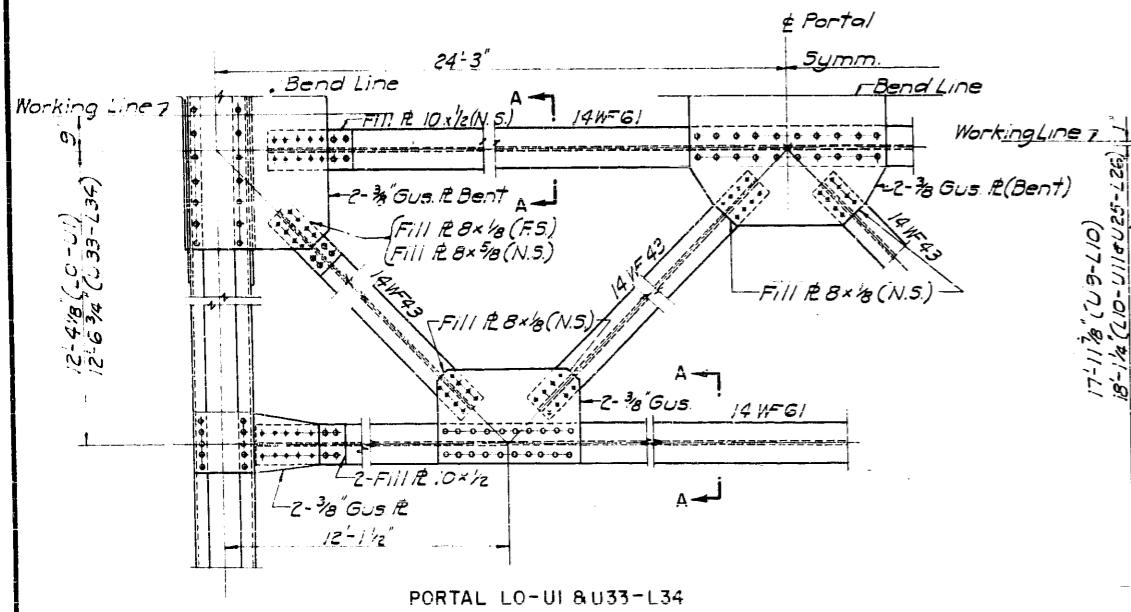
Note:
For Portal Details, see sh 66
For Lateral Bracing Details see sh. 67

FAI ROUTE 80
SECTION 99-3E4F-P
Scale: No Scale
PROJECT
WILL COUNTY
Date: Dec. 22, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WILSON, ILL. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 80	99-3E/F	WILL	65	58
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	46

SHEET NO. G6
70 SHEETS



SECTIONS A-A & B-B
Scale: 1"=1'-0"

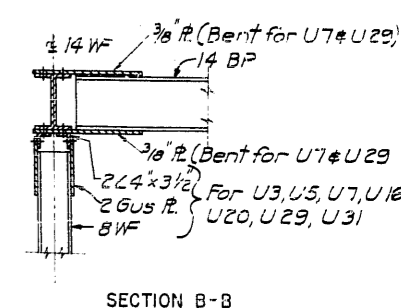
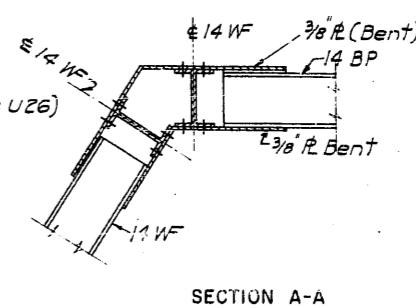
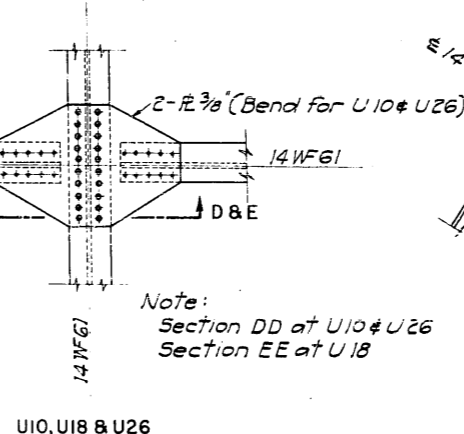
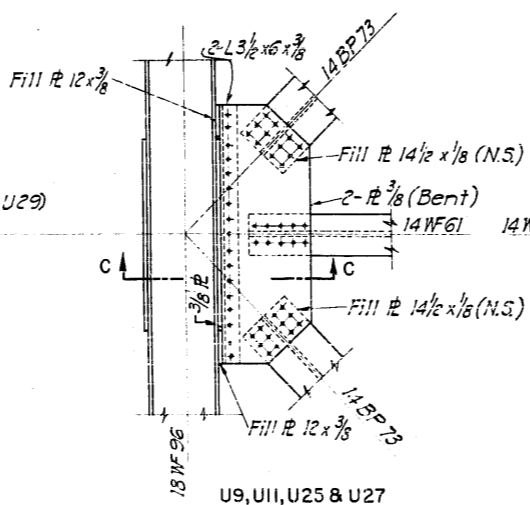
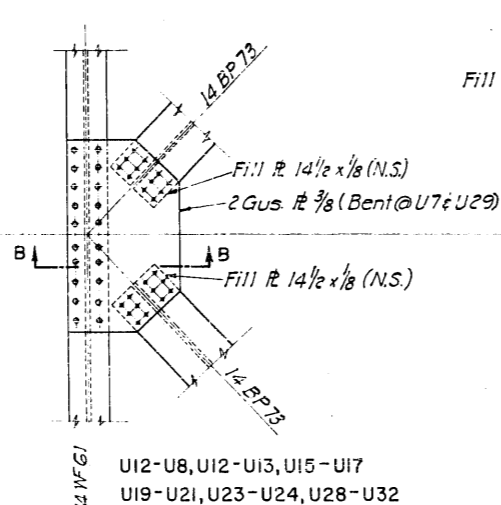
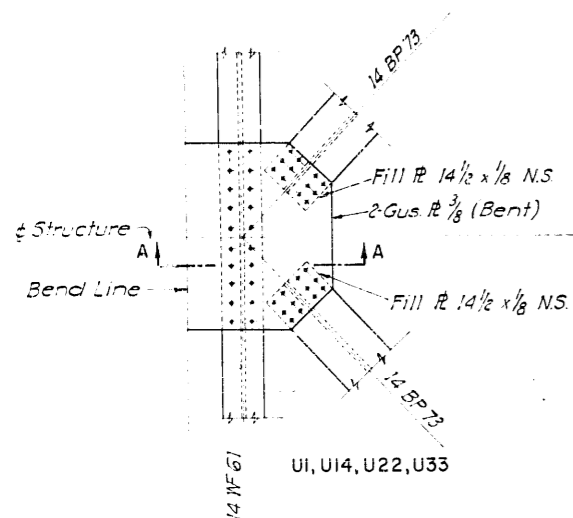
7"x14" Holes @ 2'-1" c.c. min. (Typ. except as shown)

DESIGNED	J.D.
CHECKED	P.S.S.
DRAWN	J.D.
CHECKED	H.C.M.

TRUSS DETAILS-8
FAI-80 OVER DES PLAINES RIVER
STA. 387 + 94.50
FAI ROUTE 80 PROJECT
SECTION 99-3E/F-P WILL COUNTY
Scale: No Scale Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

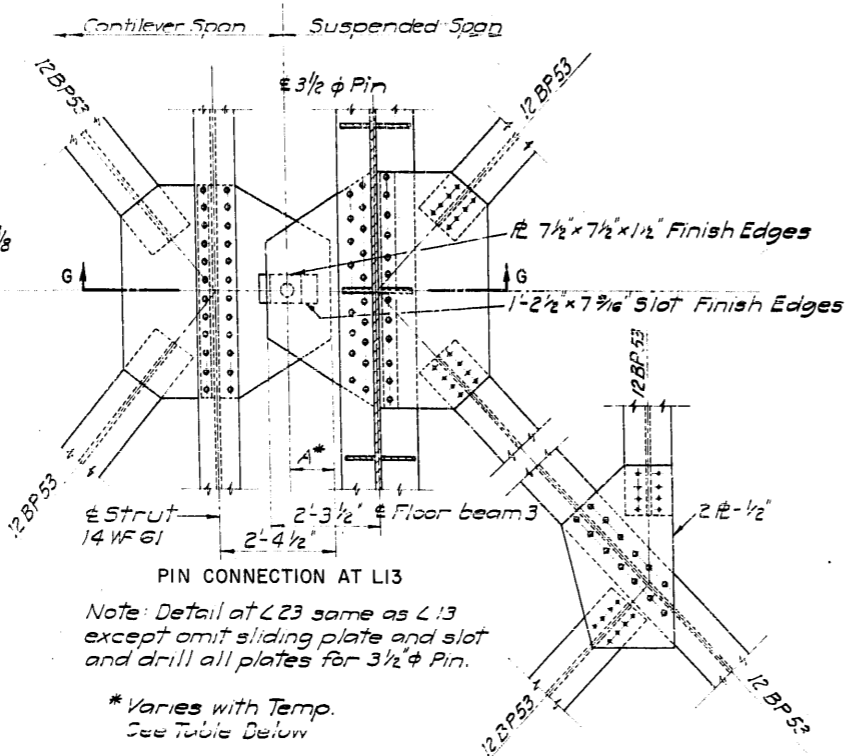
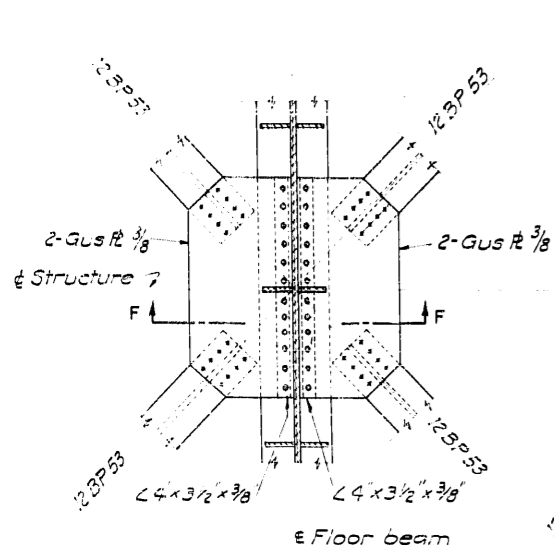
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO	SHEET NO. 67 70 SHEETS
F.A.I.-80	99-3E4F	WILL	65	59	
FED. ROAD DIST. NO. 7	ILL.-A-18	PROJECT:			
	99-3P		26	47	



Note:
Section DD at U10 & U26
Section EE at U18

For conn. of 14 WF 61 Longitudinal
Strut at U17 & U19, see detail at U9

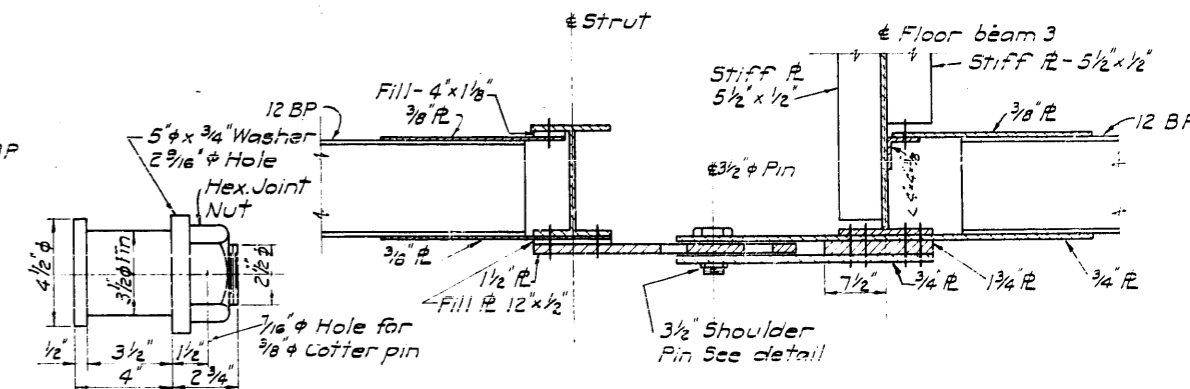
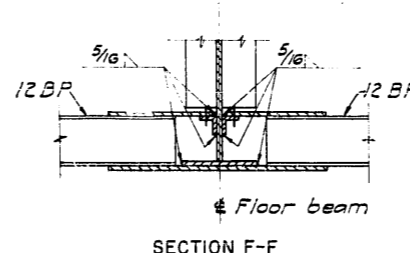
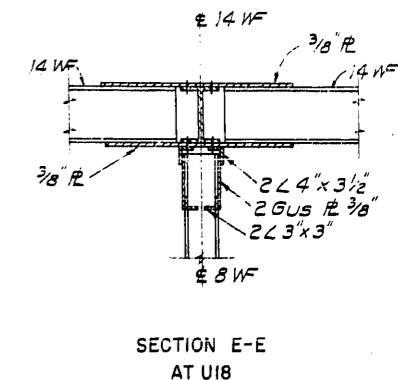
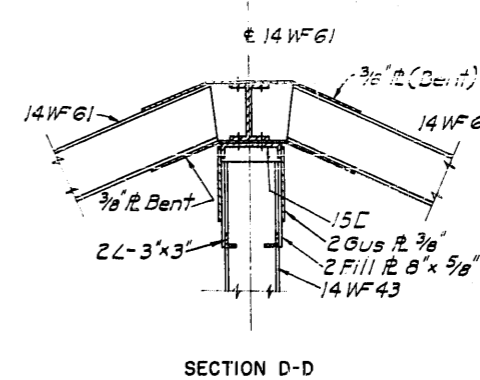
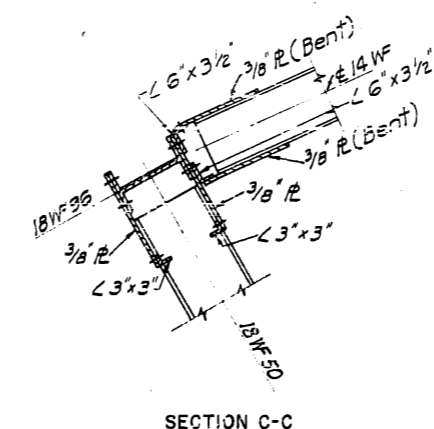


Note: Detail at L23 same as L13
except omit sliding plate and slot
and drill all plates for 3 1/2 phi Pin.

*Varies with Temp.
See Table Below

Temp.	Dim. A
10°F	11 7/8
20°F	11 3/8
30°F	11 5/16
40°F	11 1/2
50°F	10 3/4
60°F	10 15/16
70°F	10 3/16
80°F	9 29/32
90°F	9 5/8
100°F	9 11/32

Normal Temp.



SHOULDER PIN DETAIL
Scale: 3/4"=1'-0"

SECTION G-G
Scale: 1"=1'-0"
TRUSS BRACING DETAILS
FAI-80 OVER DES PLAINES RIVER

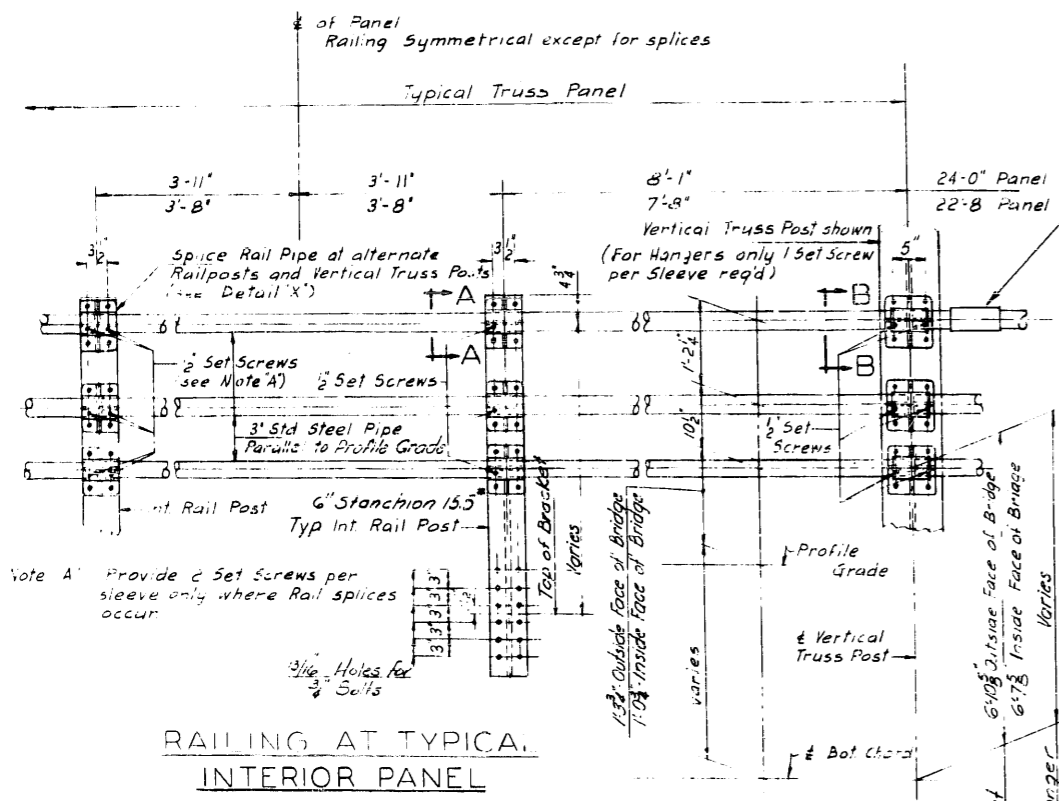
STA. 387 + 94.50
FAI ROUTE 80 PROJECT
SECTION 99-3E4F-P WILL COUNTY
Scale: No Scale Date: Dec 28, 1960

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

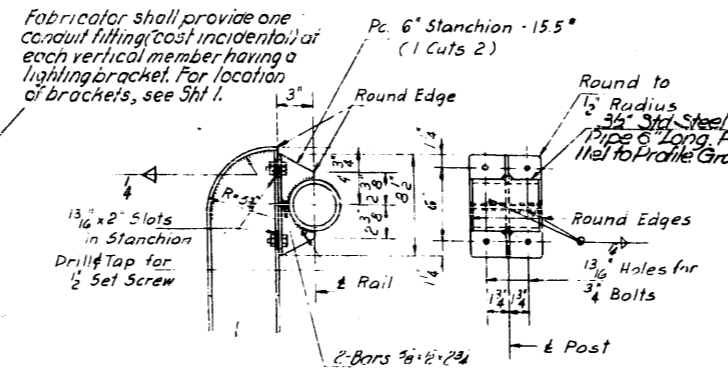
DESIGNED	J.M.
CHECKED	H.C.M.
DRAWN	J.M.
CHECKED	H.C.M.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

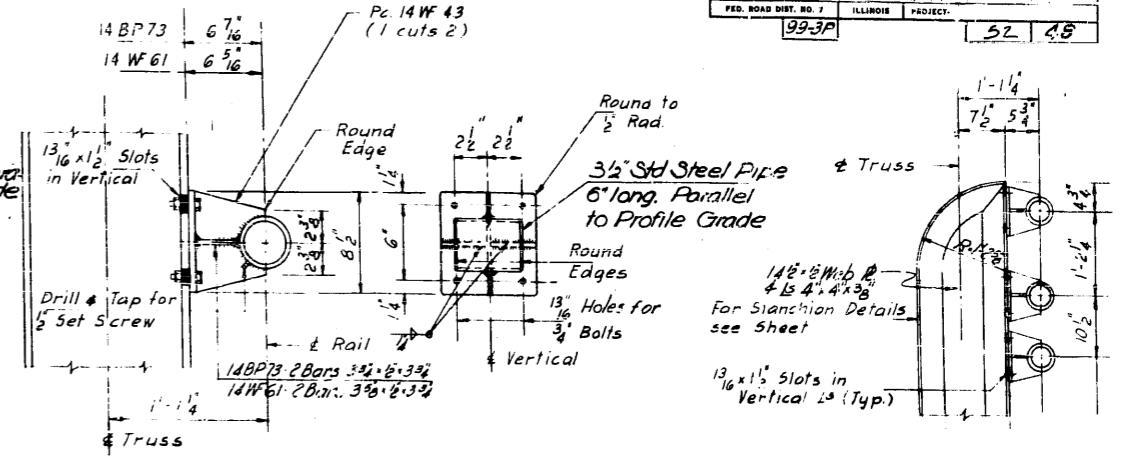
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 68 70 SHEETS
FAI-80	99-3E4F	WILL	65	60	
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT:	52	45	



RAILING AT TYPICAL INTERIOR PANEL



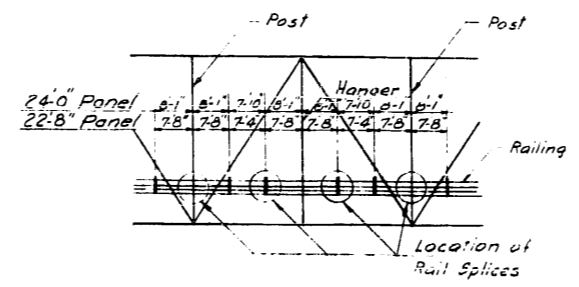
SECTION A-A



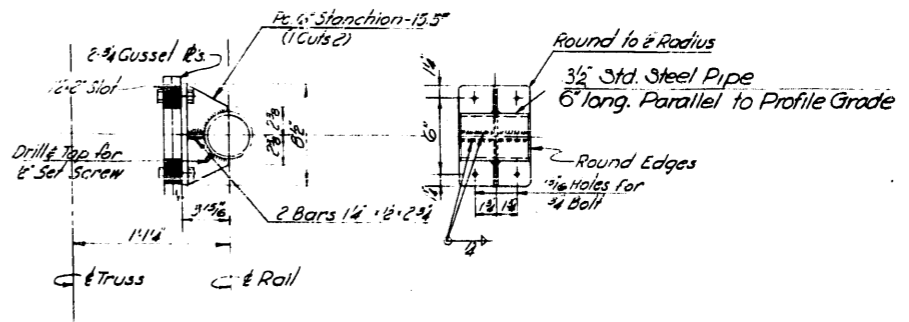
SECTION B-B

SECTION C-C

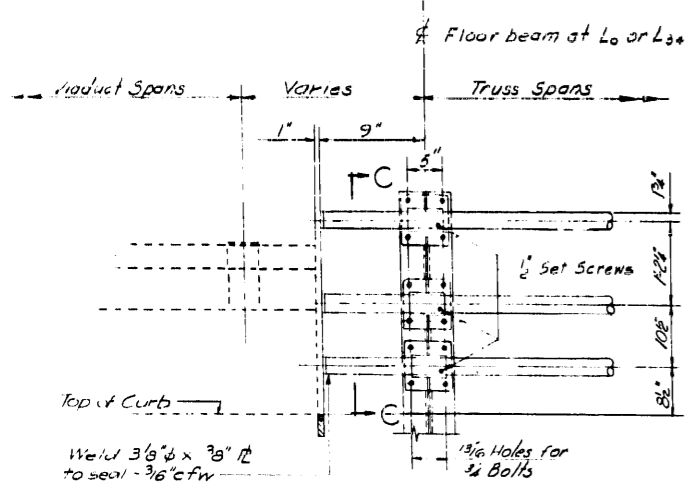
For Dimensions & Details not show see Section B-B



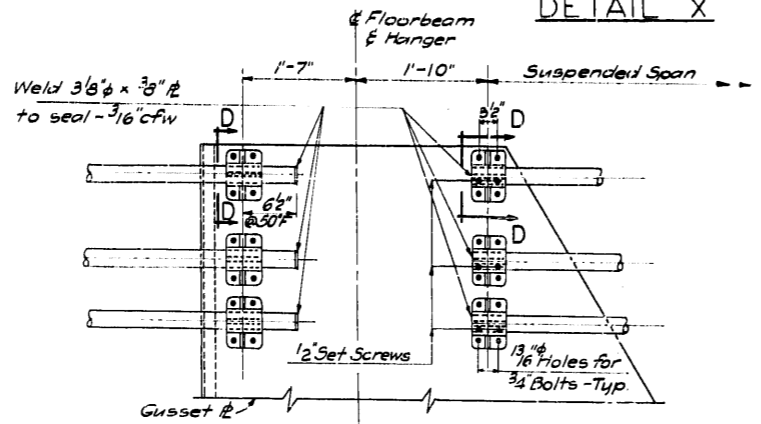
DETAIL X



SECTION D-D



DETAIL AT L0 & L34



DETAIL AT L13 & L23

NOTES:

Cables for lighting brackets (by others) to be carried in top rail of handrail. All lighting accessories, and mountings, i.e. conduit, junction boxes, lighting brackets etc, to be drilled in field under a separate contract.

The Erector shall provide in the top rail of the handrail a #10 drag wire for future electrical work (cost incidental).

TRUSS SPANS
HANDRAIL DETAILS
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	H.B.
CHECKED	L.E.W.
DRAWN	F.C.L.
CHECKED	H.C.M.

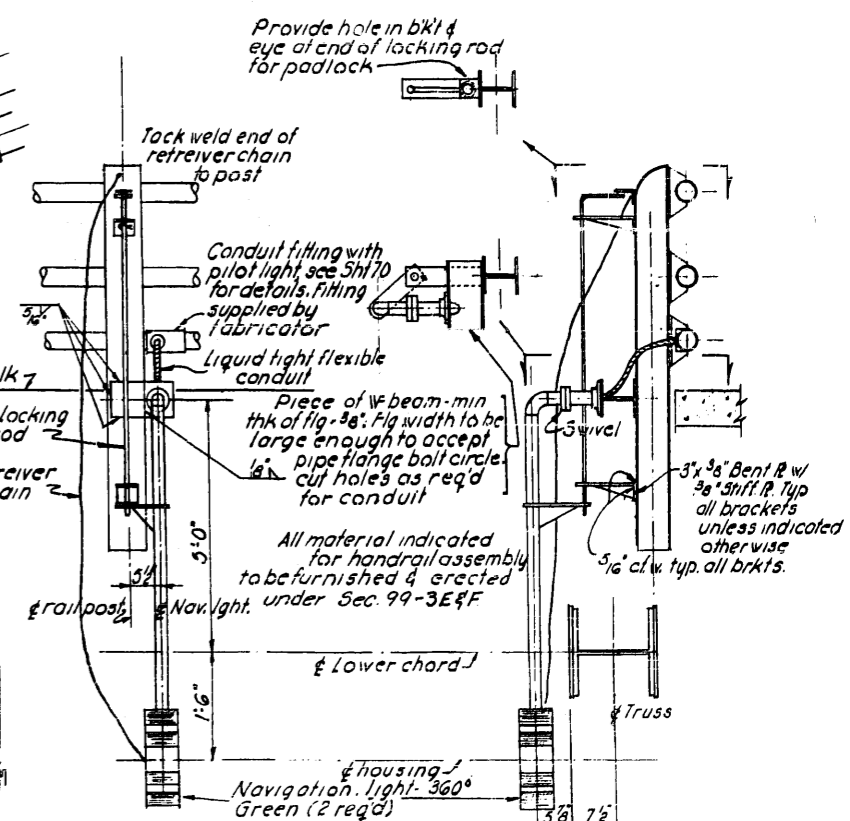
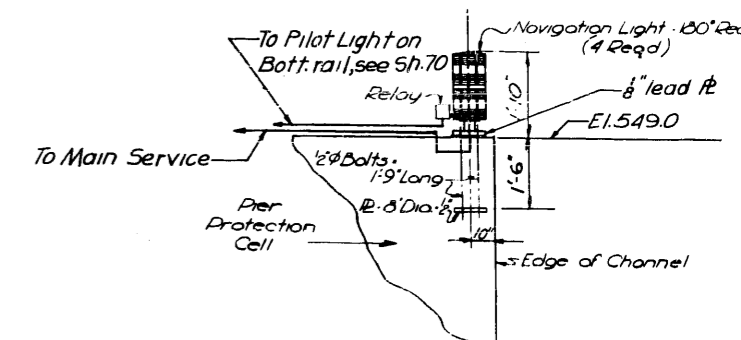
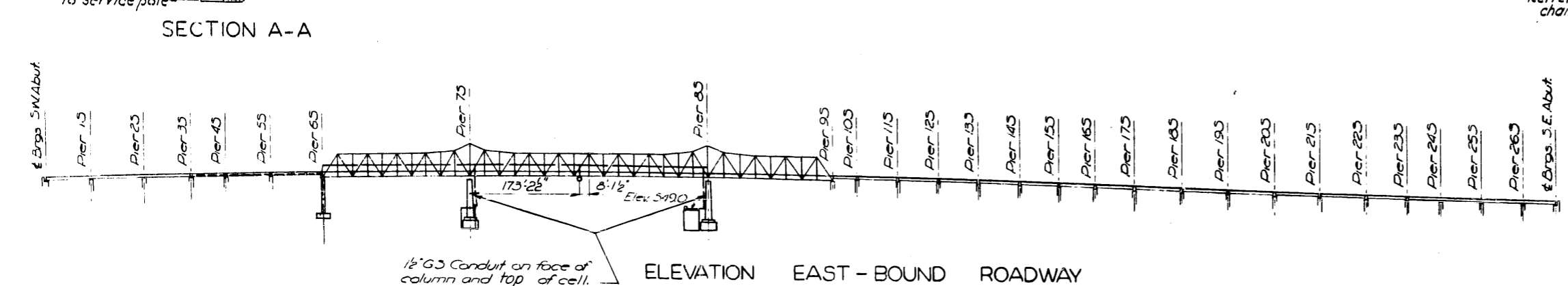
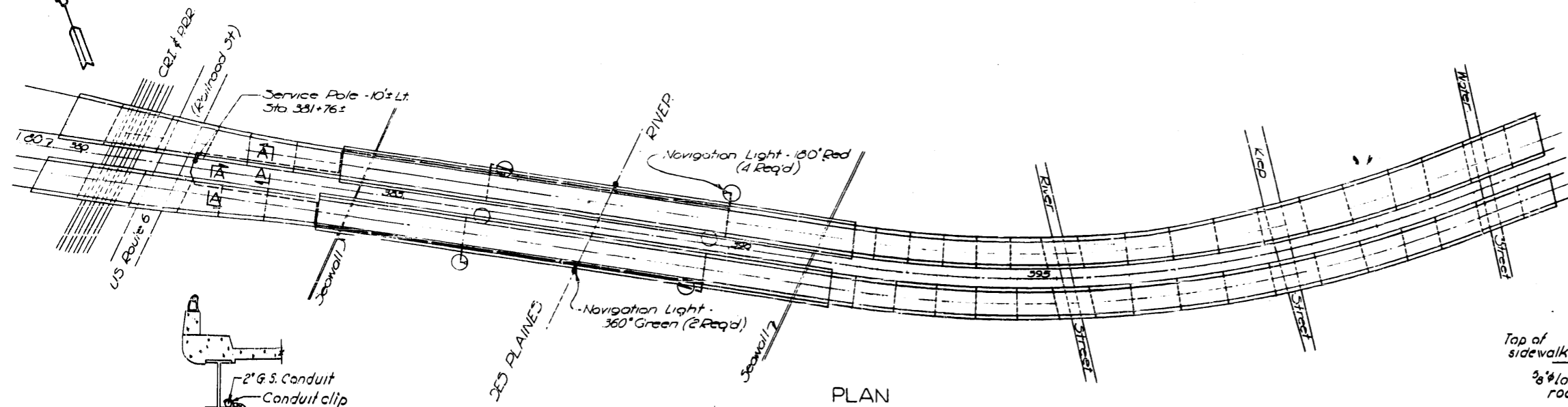
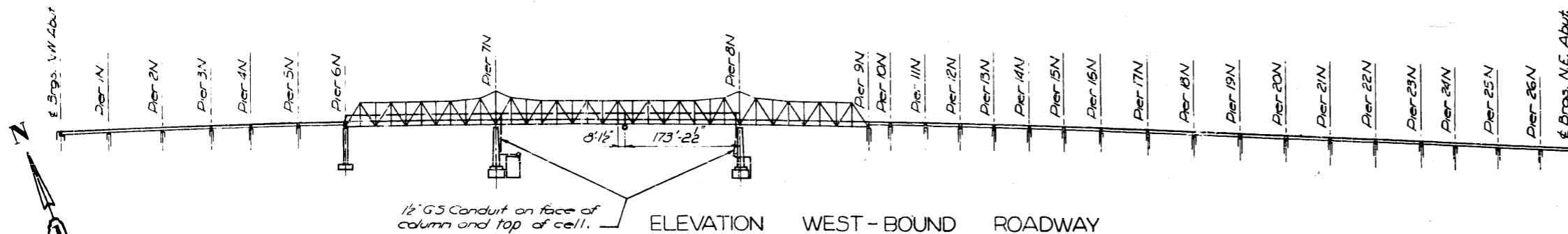
FAI ROUTE 80
SECTION 99-3E4F-P
Scale: None

PROJECT
WILL COUNTY
Date: Dec. 28, 1960

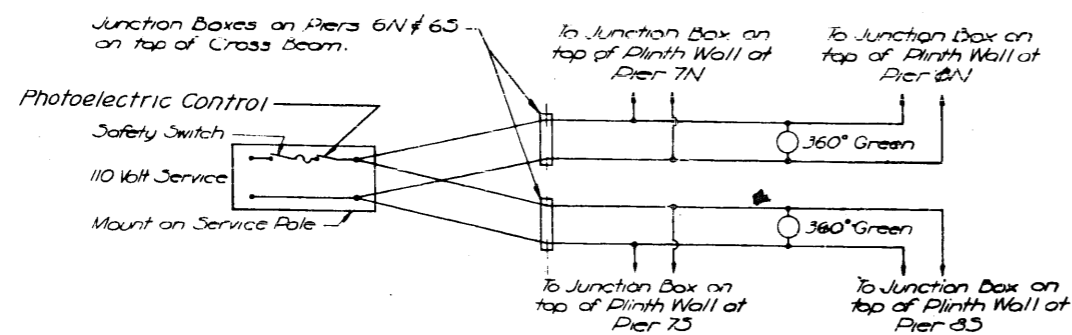
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-80	99-3E4F	WILL	65	61
SHEET NO. 69 70 SHEETS				
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	52	47
99-3P				



NAVIGATION LIGHT DETAILS



NAVIGATION LIGHTING CIRCUIT

Note:
Work this sheet with Sh. 70
See Special provisions and U.S. Coast Guard
Publication CG-208 for further information
regarding Navigation Lighting details.

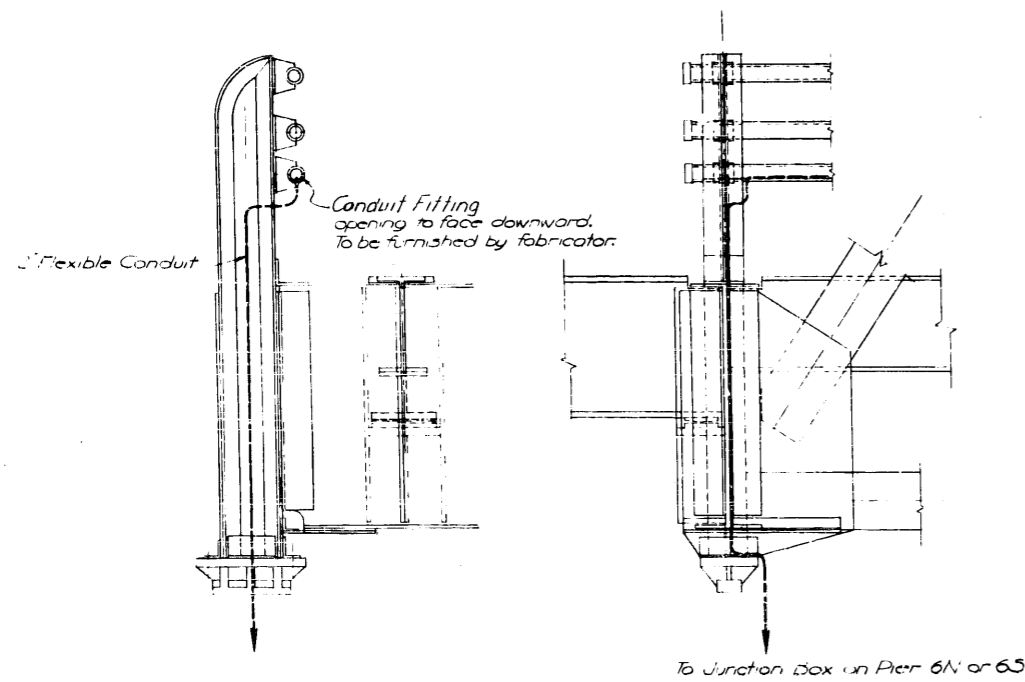
NAVIGATION LIGHTING SYSTEM
PLAN & DETAILS
FAI-80 OVER DES PLAINES RIVER
STA 387+94.50

DESIGNED	FTG.
CHECKED	H.C.M.
DRAWN	FTG.
CHECKED	H.C.M.

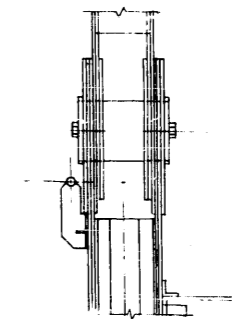
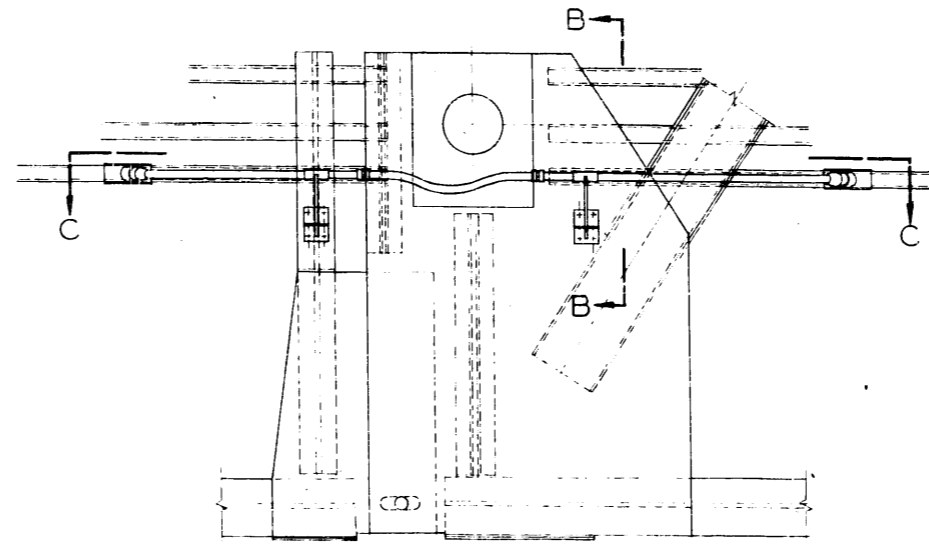
FAI ROUTE 80
SECTION 99-3E4F-P
Scale: None
PROJECT
WILL COUNTY
Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

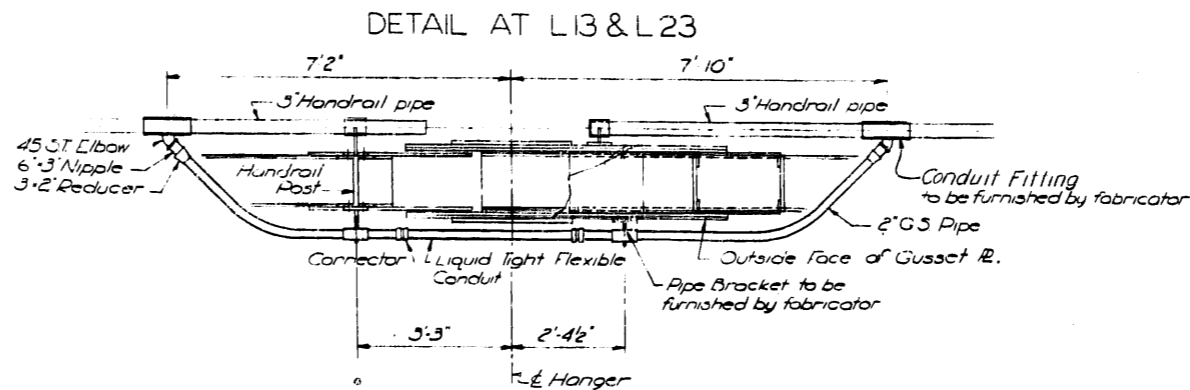
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 70 70 SHEETS
FAI-80	99-3E4F	WILL	65	62	
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT:			
	99-3P		52	50	



DETAIL AT LO



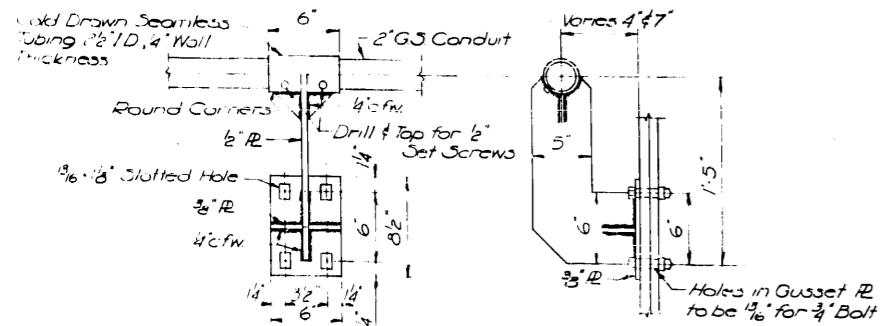
SECTION B-B



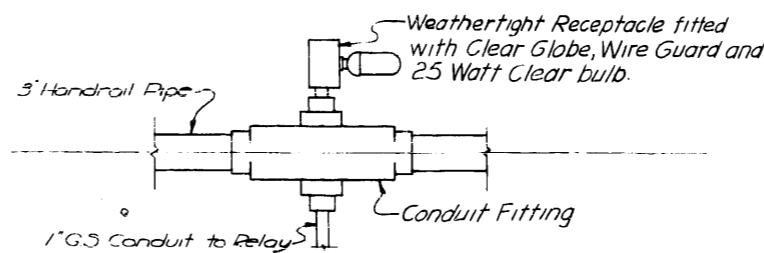
SECTION C-C

Note: All fittings & conduit to be furnished by Erector, unless otherwise noted.

Note: See Special Provisions & U.S. Coast Guard Publication CG-208 for further information regarding Navigation Lighting Details.



PIPE BRACKET DETAIL



PILOT LIGHT DETAIL

DESIGNED	FTG
CHECKED	HCM
DRAWN	FTG
CHECKED	HCM

NAVIGATION LIGHTING SYSTEM
PLAN & DETAILS
FAI-80 OVER DES PLAINES RIVER
STA 387 + 94.50

FAI ROUTE 80 SECTION 99-3E4F-P PROJECT WILL COUNTY
Scale: None Date: Dec. 28, 1960
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.