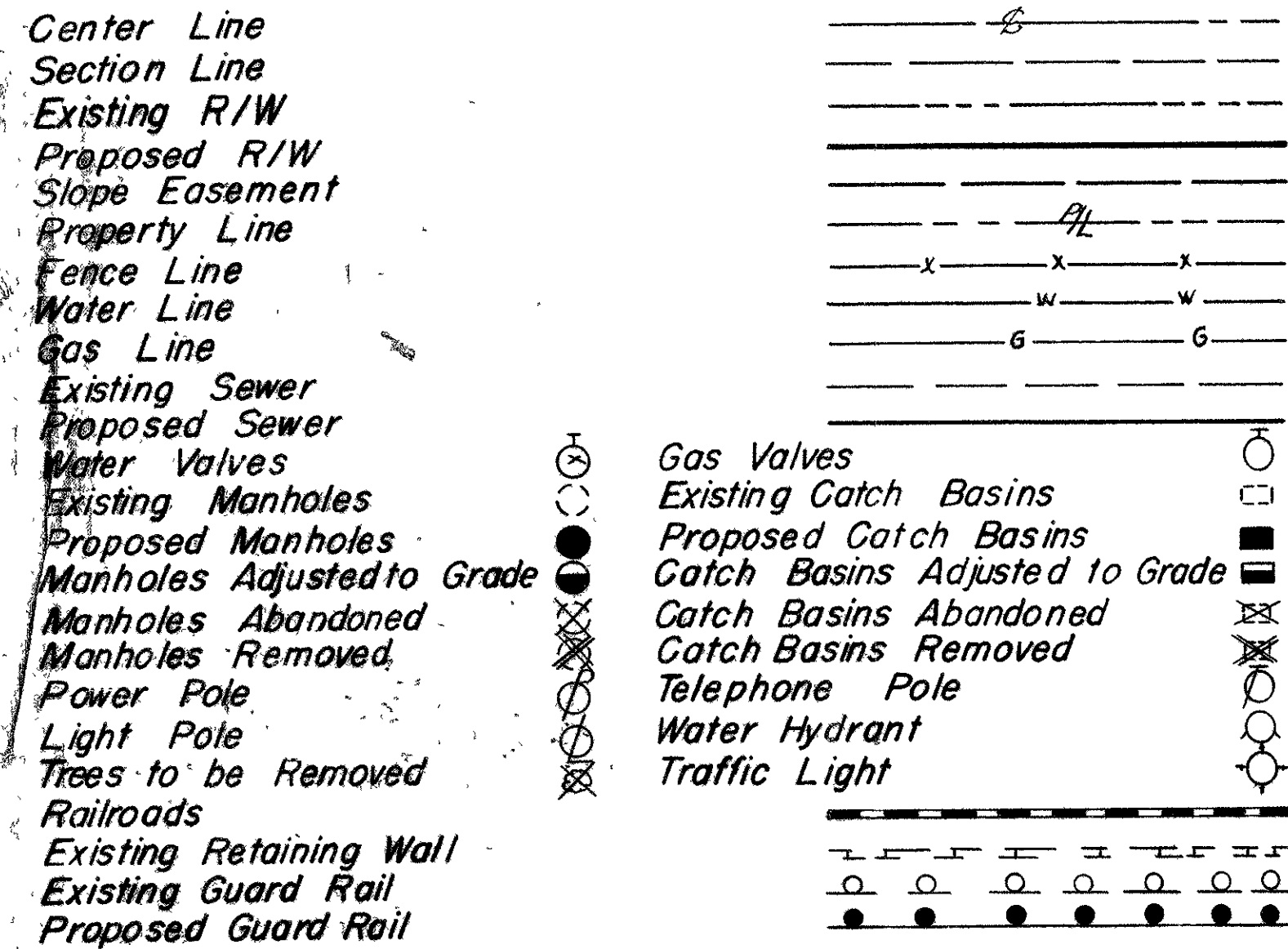


CONVENTIONAL SIGNS



INDEX OF SHEETS

Title Sheet	1
Schematic Plan	2
Typical Sections	3-11
General Notes	12-14
General Summary	15-16
Summary of Quantities	17-23
Special Details	24-26
Superelevation Tables	27-28
U.S. 40 Plan & Profile Sheets	29-38
U.S. 40 X-Sections	39-64
S.R. 49 Plan & Profile Sheets (Incl. Ramps A, B, & C)	65-72
S.R. 49 X-Sections (Incl. Ramps A, B, & C)	73-93
Ramps & Intersection Details	94-100
Channel Relocations & Culvert Details	101-109
Diamond Mill Rd. Plan, Profile, & X-Sections (Incl. drives)	110-115
Kimmel Rd. Plan, Profile, & X-Sections	116-119
Crestway Drive Plan, Profile, & X-Sections	120-123
Brookville - Salem Rd. Plan, Profile, & X-Sections	124-129
Pleasant Plain Rd. Plan, Profile, & X-Sections	130-132
Service Rd. Plan, Profile & X-Sections	133-137
Reference Monument Plan	138-139
Structures over 20' Span	140-227
Right of Way	228-241

LINE DATA

Begin Project	358+00
End Project	422+25
Net Length Project ACI-1097(4)	64 25' = 1.216 mi
Work Limits: S. 2-49 Connection	280+57.52 to 295+20 = 1467.48'
Main C	334+00 to 426+68 = 9268'
Diamond Mill Rd.	47+40 to 64+00 = 1660'
Kimmel Rd.	42+50 to 58+00 = 1550'
Crestway Dr.	45+00 to 54+00 = 900'
Brookville Salem	73+50 to 86+00 = 1250'
Net Length Work ACI-1097(4)	16,090.48 = 3.047 mi.
Begin Project	295+20
End Project	342+35.08
Net Length Project F-127(2)	47 15.08' = 0.893 mi
Existing U.S. 40	65+32.02 to 70+16.32 = 484.30'
Existing U.S. 40	71+09 to 71+16 = 66.00'
Main C	295+20 to 344+74.35 = 4954.35'
Ramp C	10+44.08 to 12+57.12 = 213.04'
Pleasant Plain	50+00 to 57+00 = 700.00'
Ramp A	0+49.61 to 4+94.00 = 444.39'
Net Length Work F-127(2)	6862.08' = 1.299 mi
Total Net Length Project	11,140.08' = 2.109 mi
Total Net Length Work	22,952.56' = 4.347 mi

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

ACI-1097 (4) ⁶⁵
F-127 (2) ¹⁻⁷²¹

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	ACI-1097(4) F-127(2)	

MONTGOMERY COUNTY
MOT - 40 - 5.98
MOT - 49 - 12.45

1/241

MOT-40 - 5.98
MOT-49 - 12.45
MONTGOMERY COUNTY
RANDOLPH TOWNSHIP
CLAY TOWNSHIP

NOTE: Federal Project No. I-1097(4) appearing throughout this plan shall be considered to read ACI-1097(4).

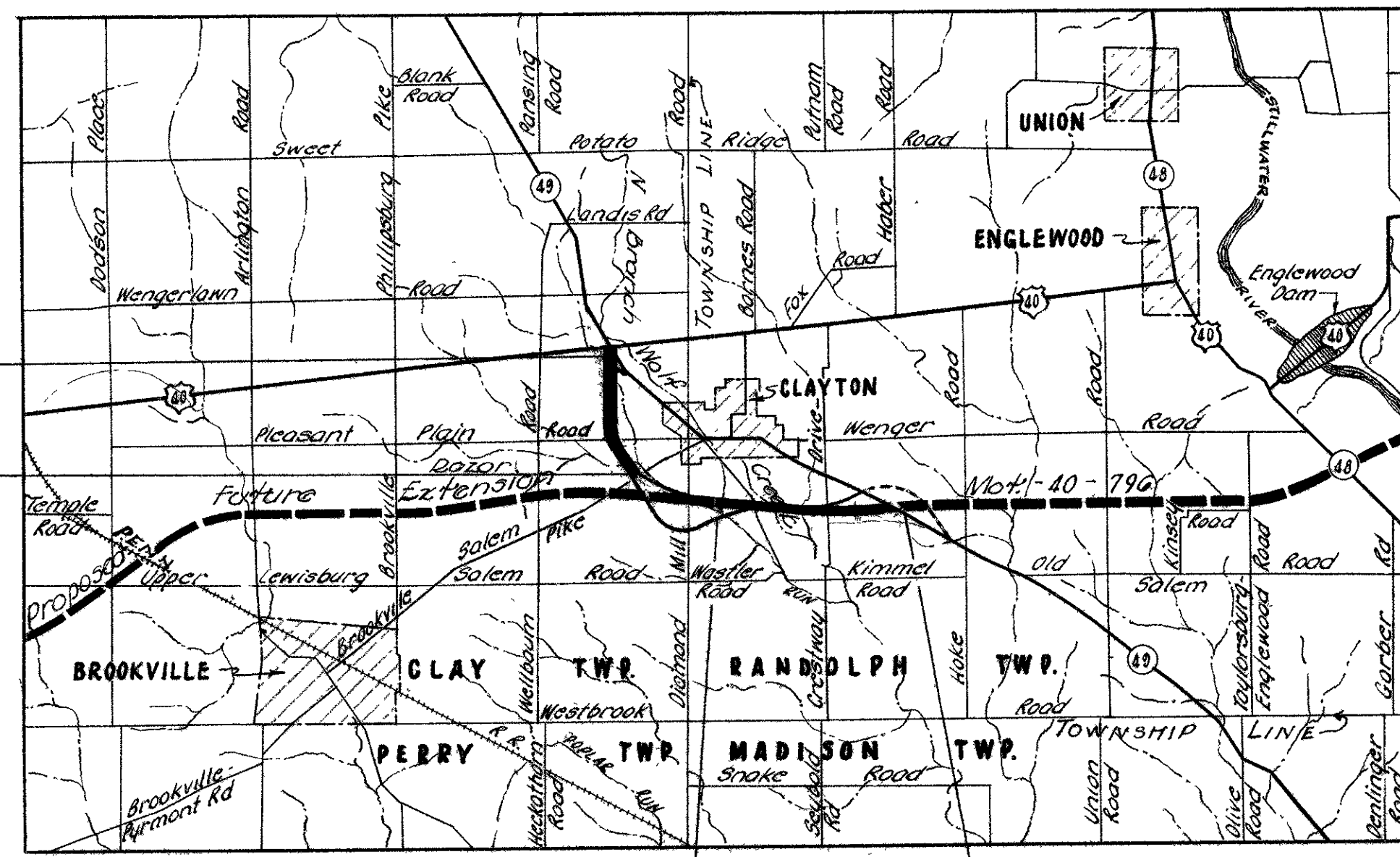
"LIMITED ACCESS"

This improvement is especially designed for thru traffic and has been declared a Limited Access Highway or Freeway by action of the Director of Highways, in accordance with the provisions of Sec. 5511.02 of The Revised Code of Ohio.

The Standard Specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal, shall govern this improvement.

The Right of Way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highways to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.



END PROJECT
MOT-49-12.45
STA 342+35.08
S.L.M. 13.34

BEGIN PROJECT
MOT-49-12.45
STA. 295+20
S.L.M. 12.45

BEGIN PROJECT
MOT-40-5.98
STA 358+00
S.L.M. 5.98

END PROJECT
MOT-40-5.98
STA 422+25
S.L.M. 7.96

DELIVERY POINT PENN SIDING BROOKVILLE, OHIO AVERAGE HAUL 4 MI.

Approved E. D. Ackerman
Date 1/30/58 Division Deputy Director

Approved W. J. Mahoney
Date 5-2-58 Deputy Director of Planning & Programming

Approved M. C. Corman
Date 4-24-58 Engineer of Bridges

Approved P. E. Shultz
Date 4-29-58 Engineer of Location & Design

Approved P. E. Washburn
Date 5-1-58 Deputy Director of Design & Construction

Approved _____
Date _____ First Assistant Director

Approved George J. Thorny
Date 5/2/58 Acting Director of Highways

STANDARD DRAWINGS			
NUMBER	DATE	NUMBER	DATE
B-T-50-70-		L-3-A	4-1-50
71 E No. 1	10-1-47	L.J. No. 1	7-1-55
B-T-71 R	3-2-53	OS-2	12-17-56
DR-1	1-3-55	RI-1	1-3-55
G-7.07	6-1-56	S-27 PC 3	2-20-45
I-1-2-3-4-5	4-24-58	S-27 PC 4	1-4-54
I-RCB 2-2A&B	8-1-56	T-35	1-2-56
I-8 CB No. 6	5-1-52	T.J.	5-1-56
I-8 I-No. 2	12-1-54	F-1	4-1-57
I-12	7-1-54	X-8MH No. 1/A	1-3-55
I-14 G	1-22-52	AS-1-54	12-1-54
I-15 No. 1	8-1-55	SP-53	7-21-53
I-15 No. 2 A	6-1-57	CSB-2-56(6 Sheets)	3-1-58
I-15 No. 2 B	6-1-57	RB-1-55	3-1-55
I-21-23	8-1-56	A-1-54	12-1-54
I-8 MH No. 2	5-1-52	AR-1-57	3-1-58
L-1	4-1-50	P-1-54	12-1-54
L-3	4-1-50	CS-2-54(2 Sheets)	12-1-54
		CS-1-54(2 Sheets)	7-16-56

LOCATION PLAN
PORTION TO BE IMPROVED _____
STATE HIGHWAYS _____

SCALE
PLAN AND PROFILE 1" = 50'
PAVEMENT DETAILS 1 1/2" = 20'
CROSS SECTIONS 1" = 10'

Sheets 156, 157, 158 & 160 revised 7-25-58.

SUPPLEMENTAL SPECIFICATIONS			
NUMBER	DATE	NUMBER	DATE
B-119 Rev.	8-11-57	M-206.14	7-15-48
18 Rev.	2-6-57		
S-114 Rev.	8-1-57		
E-101	1-1-57		
5	6-8-55		
M-206.6 (b)	5-25-56		

PLANS PREPARED BY
ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
245 NORTH HIGH STREET
COLUMBUS OHIO
FOR
STATE OF OHIO

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED _____
DIVISION ENGINEER _____ DATE _____

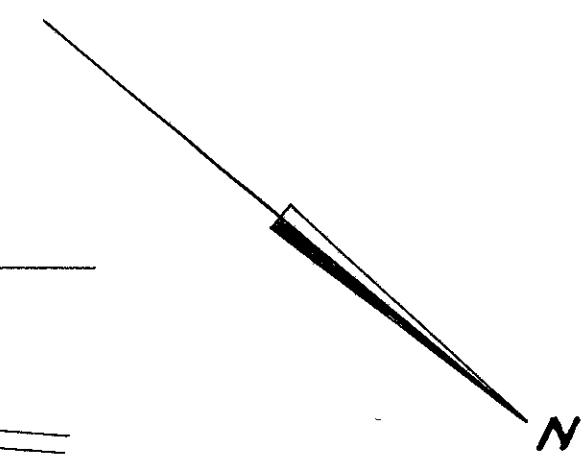
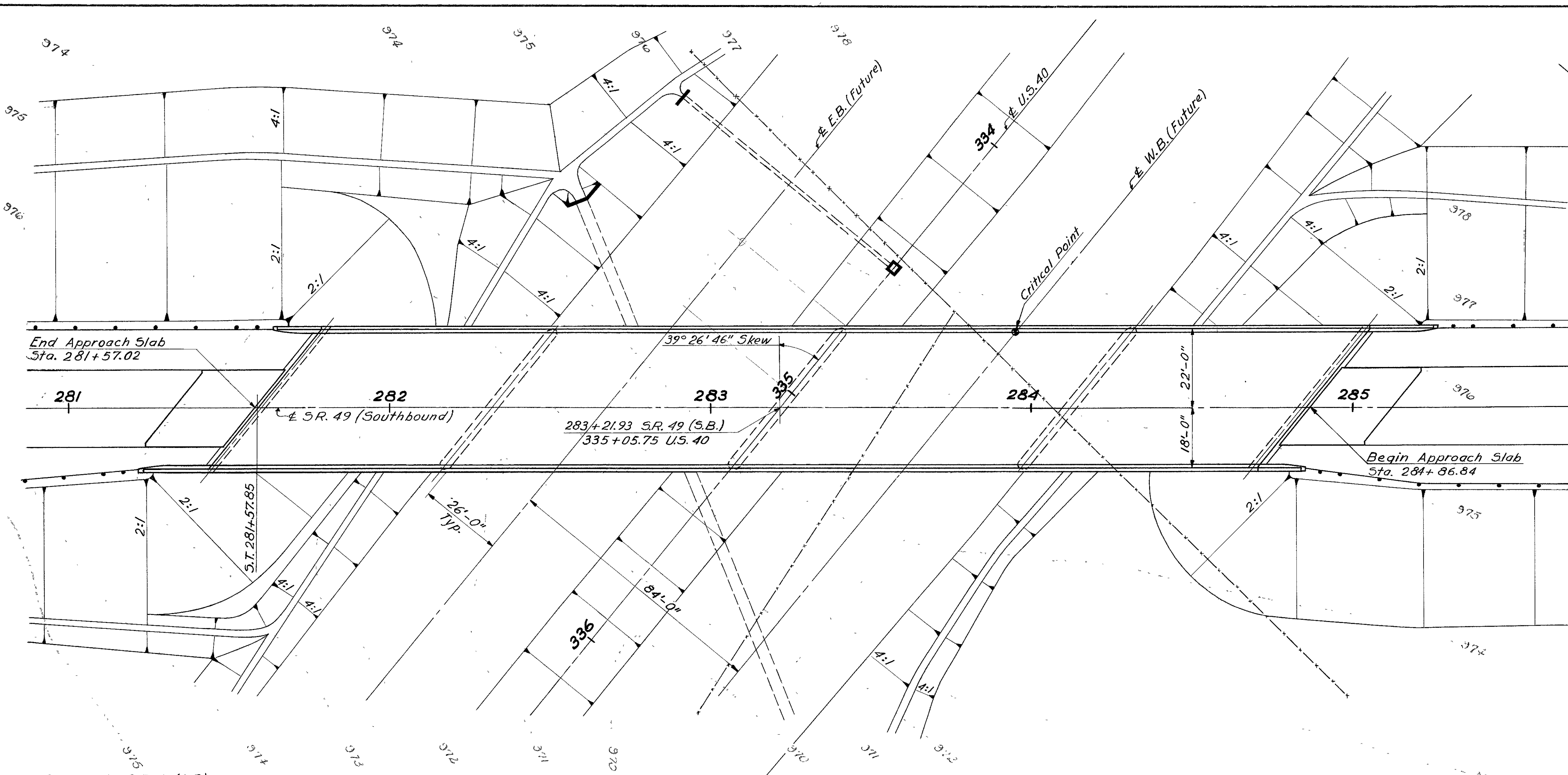
FILE NUMBER	MONTGOMERY COUNTY MOT-40-5.98 MOT-49-12.45
DATE OF LETTING	_____
CONTRACT NUMBER	_____

DEC 1 1961
GROUND PHOTOLAB

FED RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

145
241

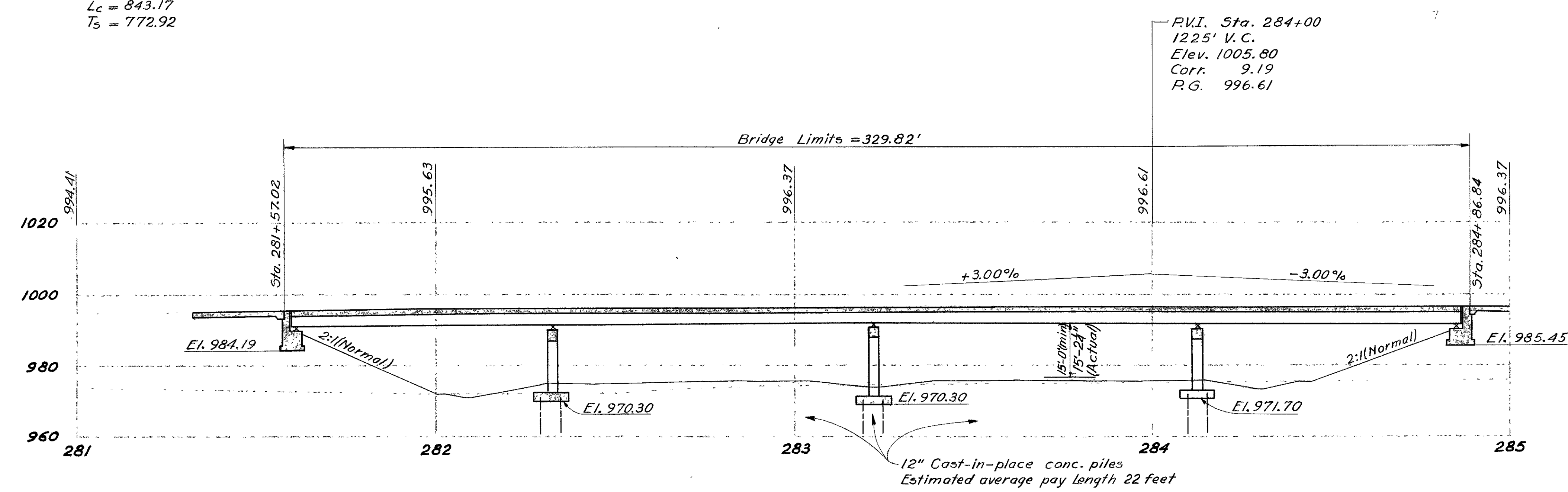
MONTGOMERY COUNTY
MOT-40-5.98
MOT-49-12.45



Curve Data S.R. 49 (S.B.)
 $\Delta = 76^\circ 31' 19''$
 $D_c = 7^\circ$
 $R = 818.51'$
 $L_s = 250'$
 $L_c = 843.17'$
 $T_s = 772.92'$

PLAN

PROPOSED STRUCTURE
 Type: Continuous steel beam with reinforced concrete deck and substructure
 Spans: 72' - 90' - 90' - 72' c/c brgs
 Roadway: 40'-0" f/f concrete parapets with 1"-0" curbs and aluminum railing
 Loading: CF 2000 (Adequate for AASHO alternate loading)
 Skew: 39° 26' 46" Lt. forward
 Wearing surface: 1" monolithic concrete
 Alignment: Tangent
 Approach: Slabs: A5-1-54 (25' long)



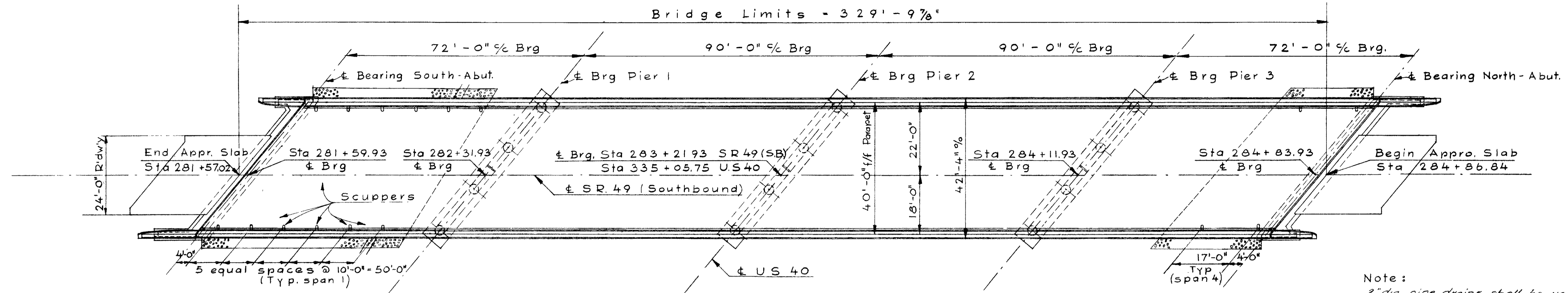
R.V.I. Sta. 284+00
 1225' V.C.
 Elev. 1005.80
 Corr. 9.19
 R.G. 996.61

PROFILE ON E SB. S.R. 49

ALDEN E. STILSON & ASSOCIATES, LIMITED
 CONSULTING ENGINEERS
 COLUMBUS, OHIO

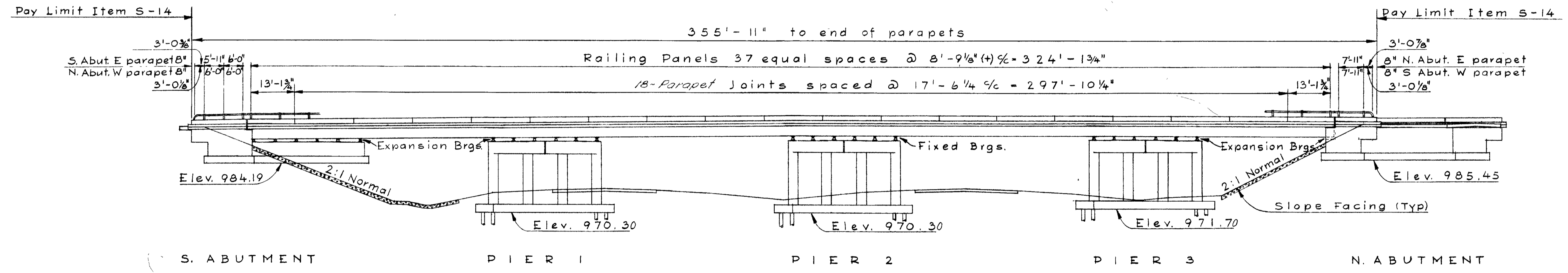
SITE PLAN
 BRIDGE No MOT-40-0631
 U.S. 40 under SOUTHBOUND S.R. 49
 Montgomery County Sta. 335+05.75
 ACI-1057(4)

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.E.V.	J.E.V.	J.F.M.	Wisse	T.L.U.	4-3-58	



Note:
2" dia pipe drains shall be used at ends of each bulb angle gutter

G E N E R A L P L A N

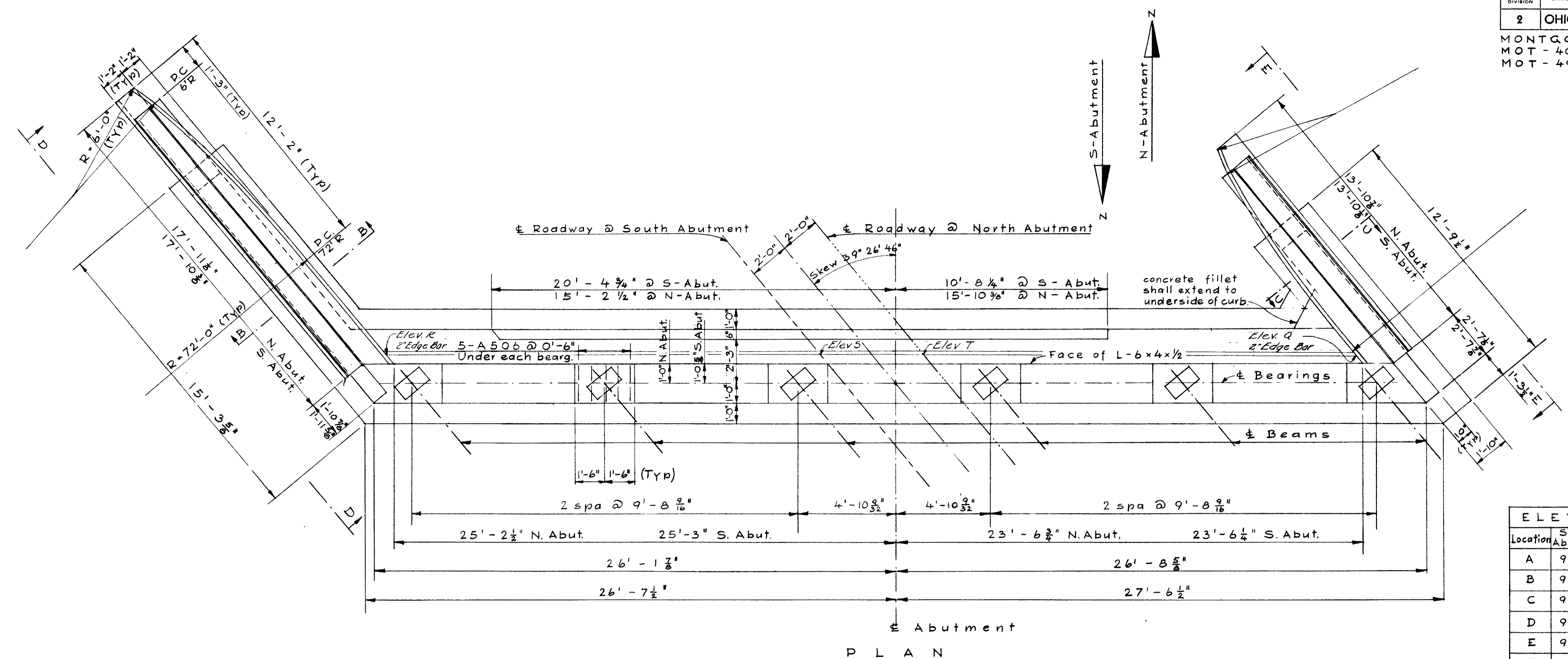


G E N E R A L E L E V A T I O N

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

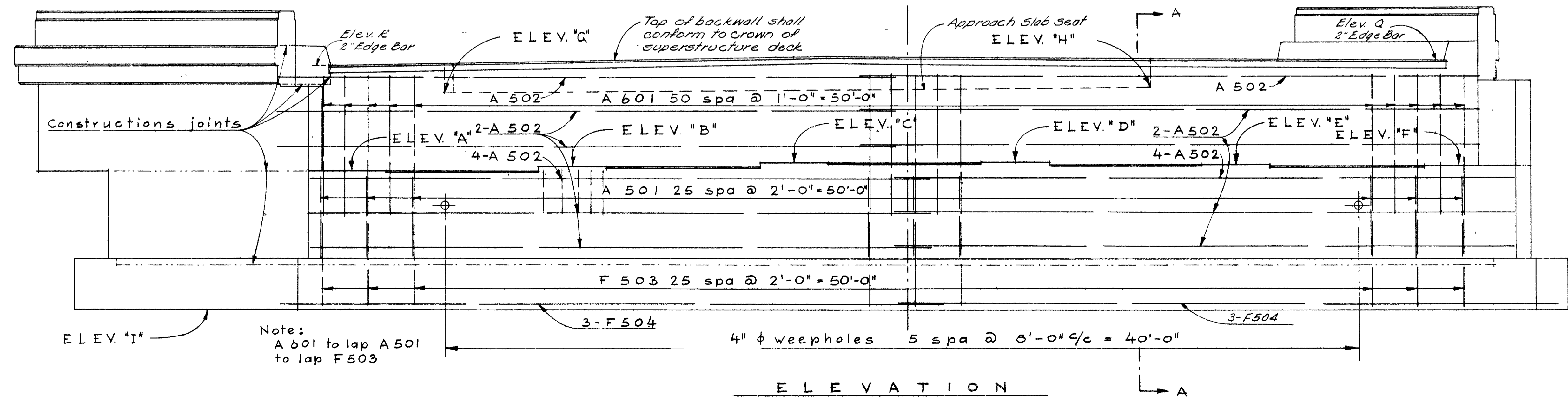
GENERAL PLAN &
GENERAL ELEVATION
BRIDGE No MOT-40-0631
U.S. 40 UNDER SB SR 49
MONTGOMERY COUNTY
ACI-1097(4) STA 335+05.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	H.S.		BETTIN	TLU	4-3-58	



Location	South Abutment	North Abutment
A	990.16	991.42
B	990.35	991.57
C	990.54	991.72
D	990.55	991.80
E	990.50	991.71
F	990.46	991.62
G	993.53	994.06
H	993.76	994.94
I	984.19	985.45
Q	995.05	996.22
R	994.75	996.03
S	995.18	
T		996.43

Note:
For sections A-A, B-B & C-C
and Views D-D & E-E see Sheet 148



Note:
A 601 to lap A 501
to lap F 503

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

ABUTMENT DETAILS
BRIDGE No MOT-40-0631
U.S. 40 UNDER S.B. SR. 49

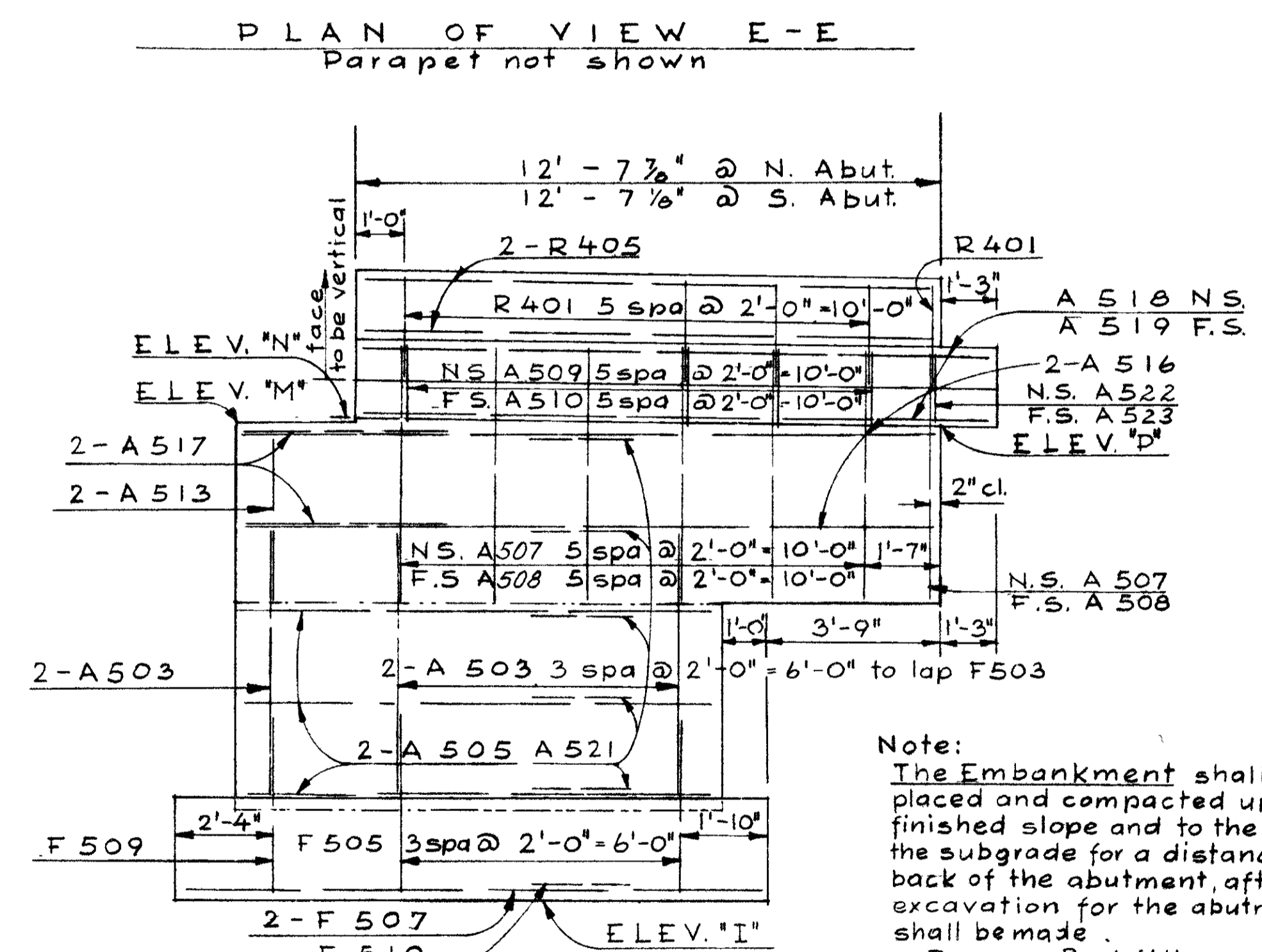
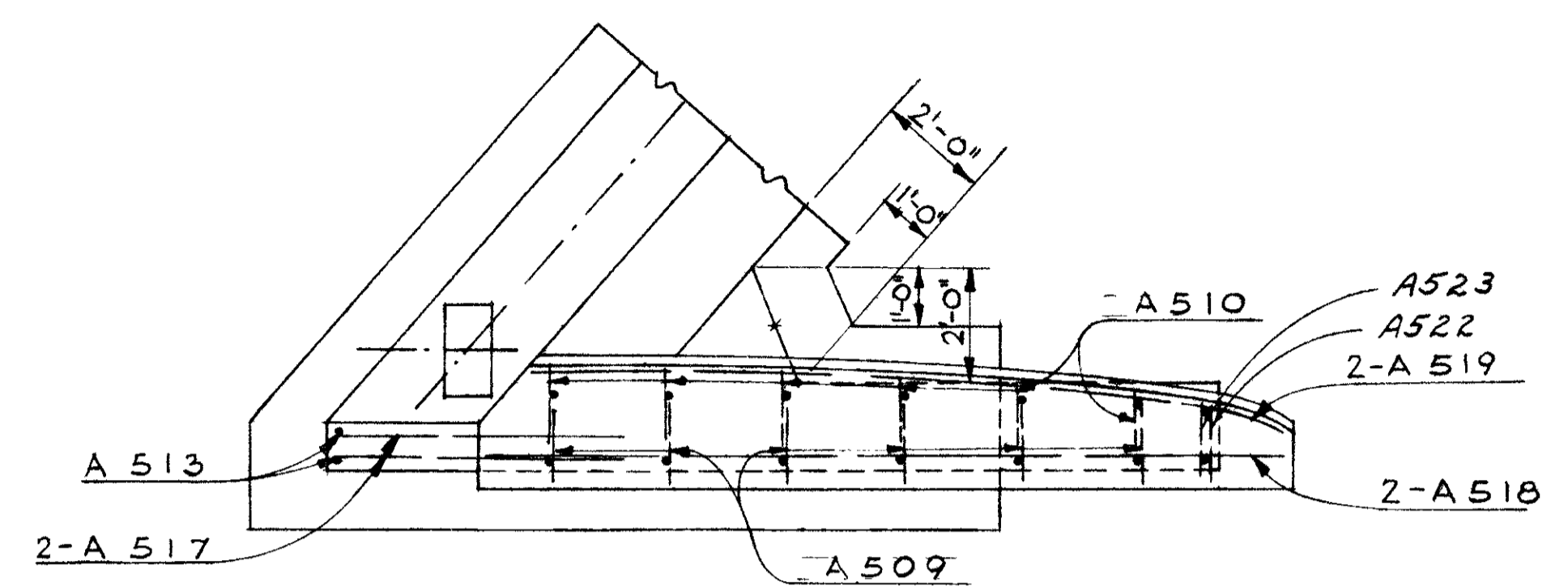
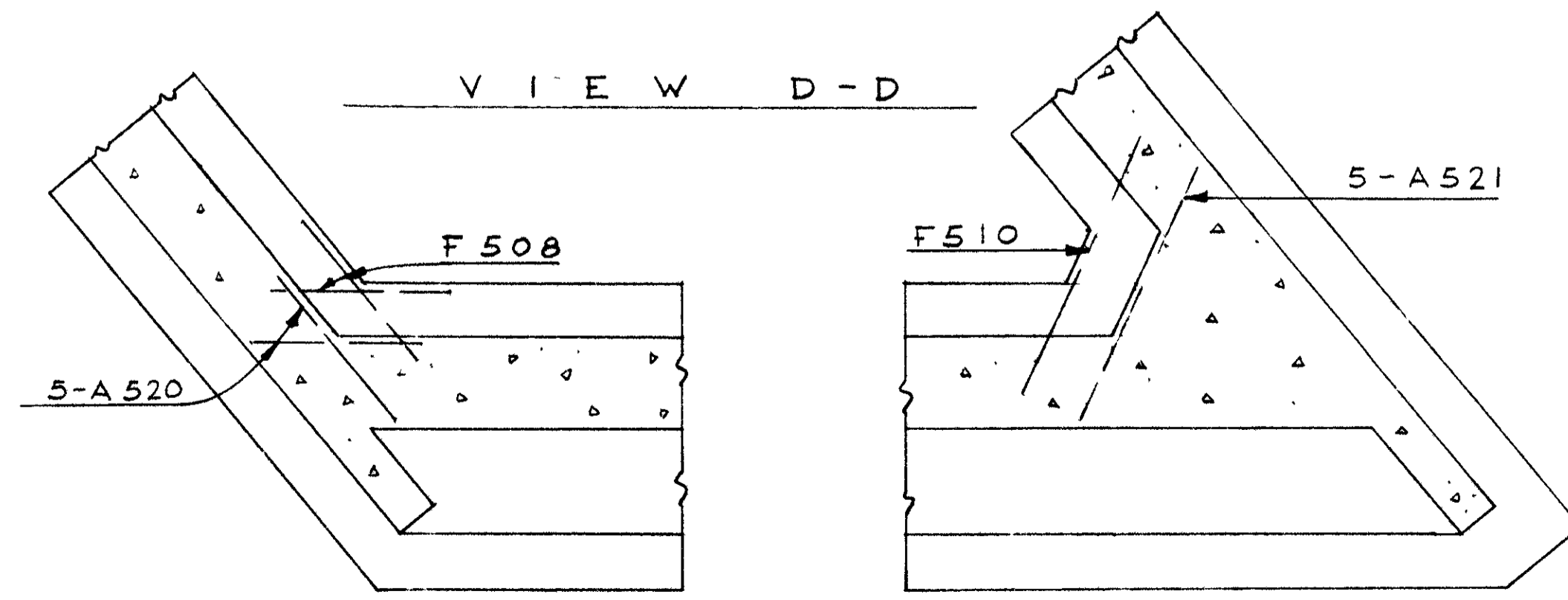
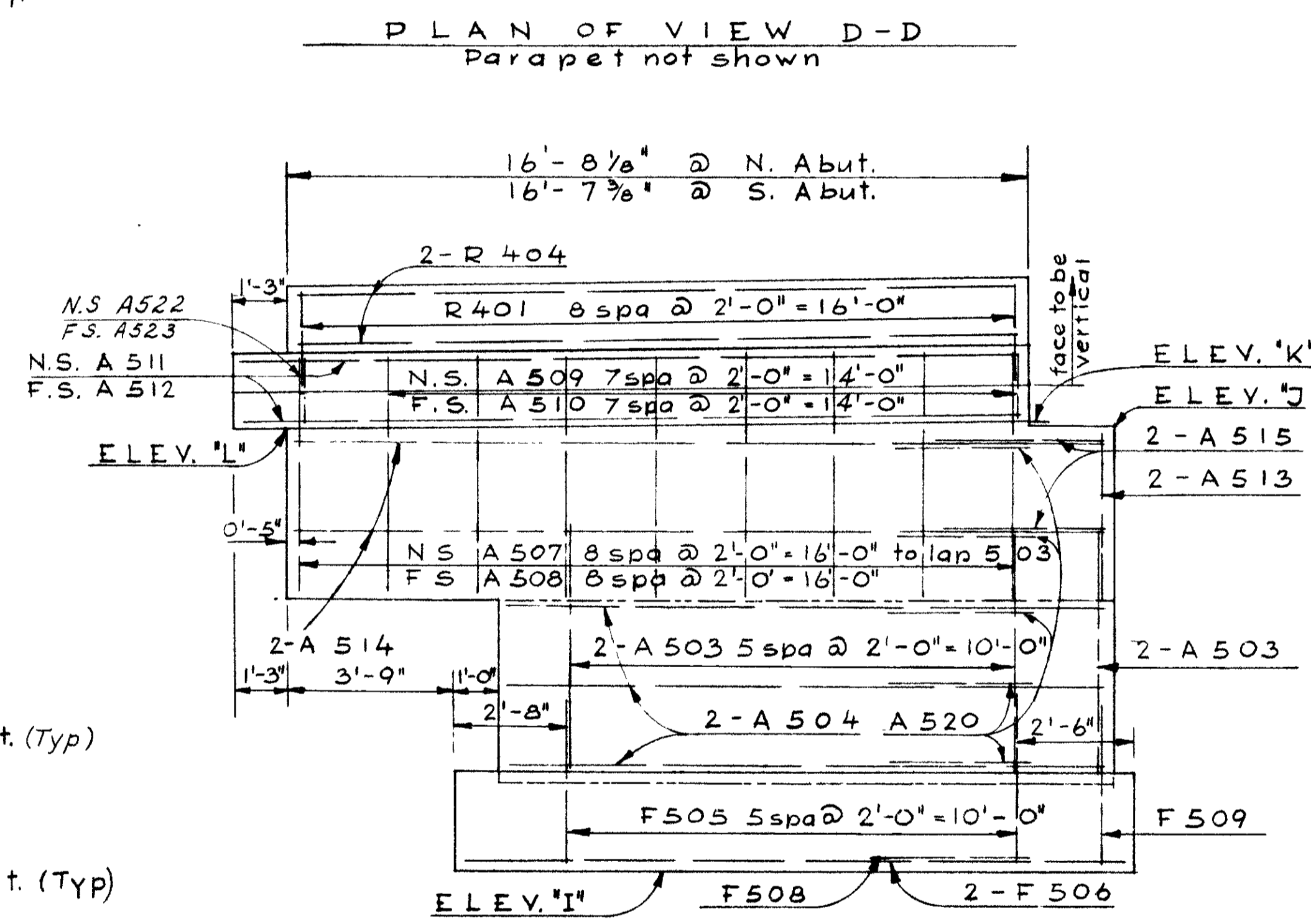
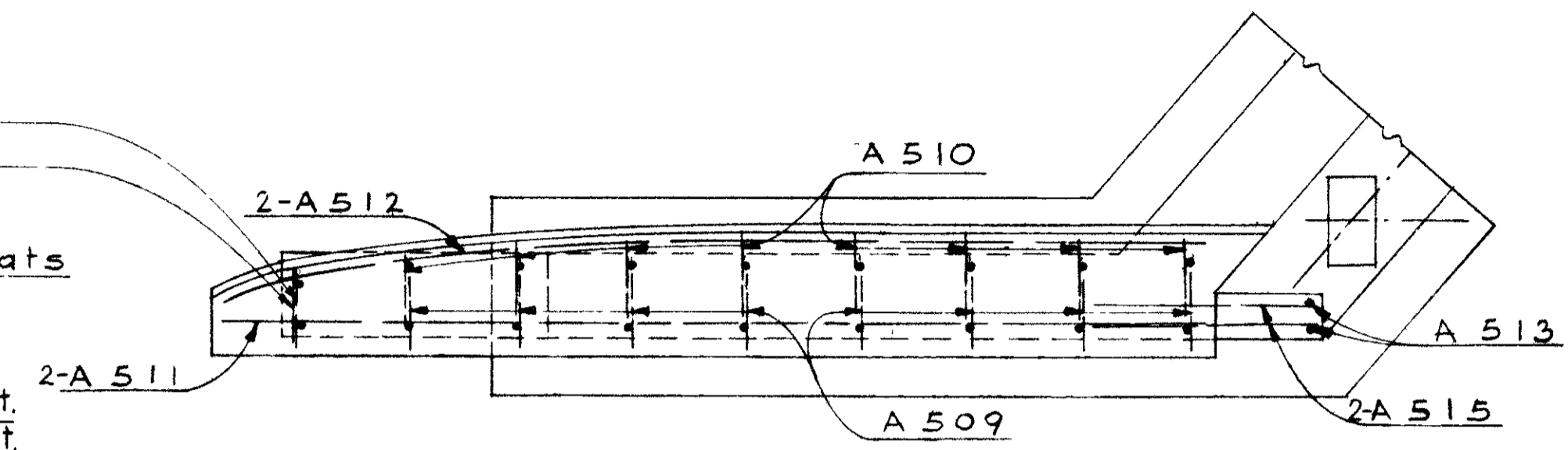
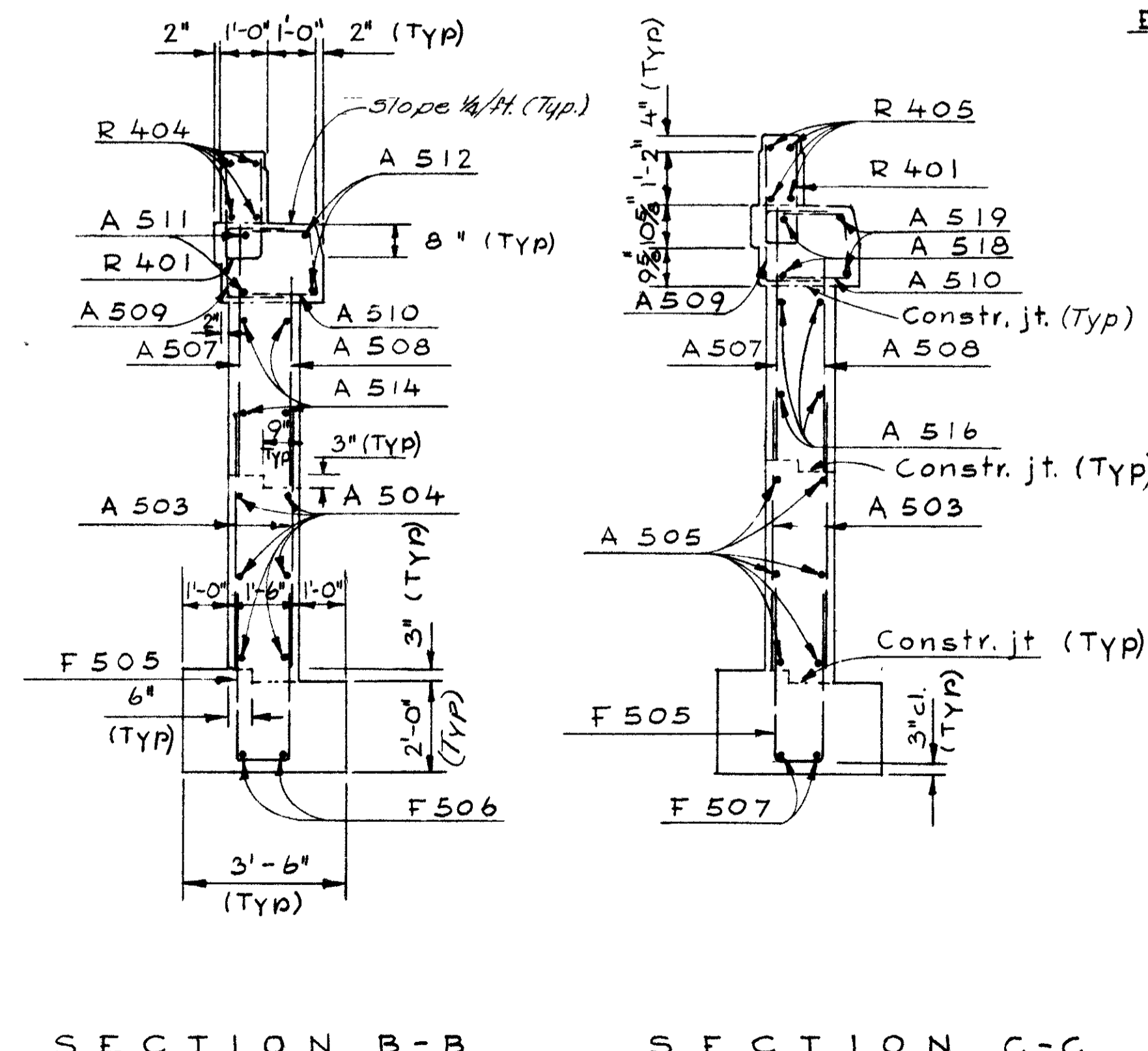
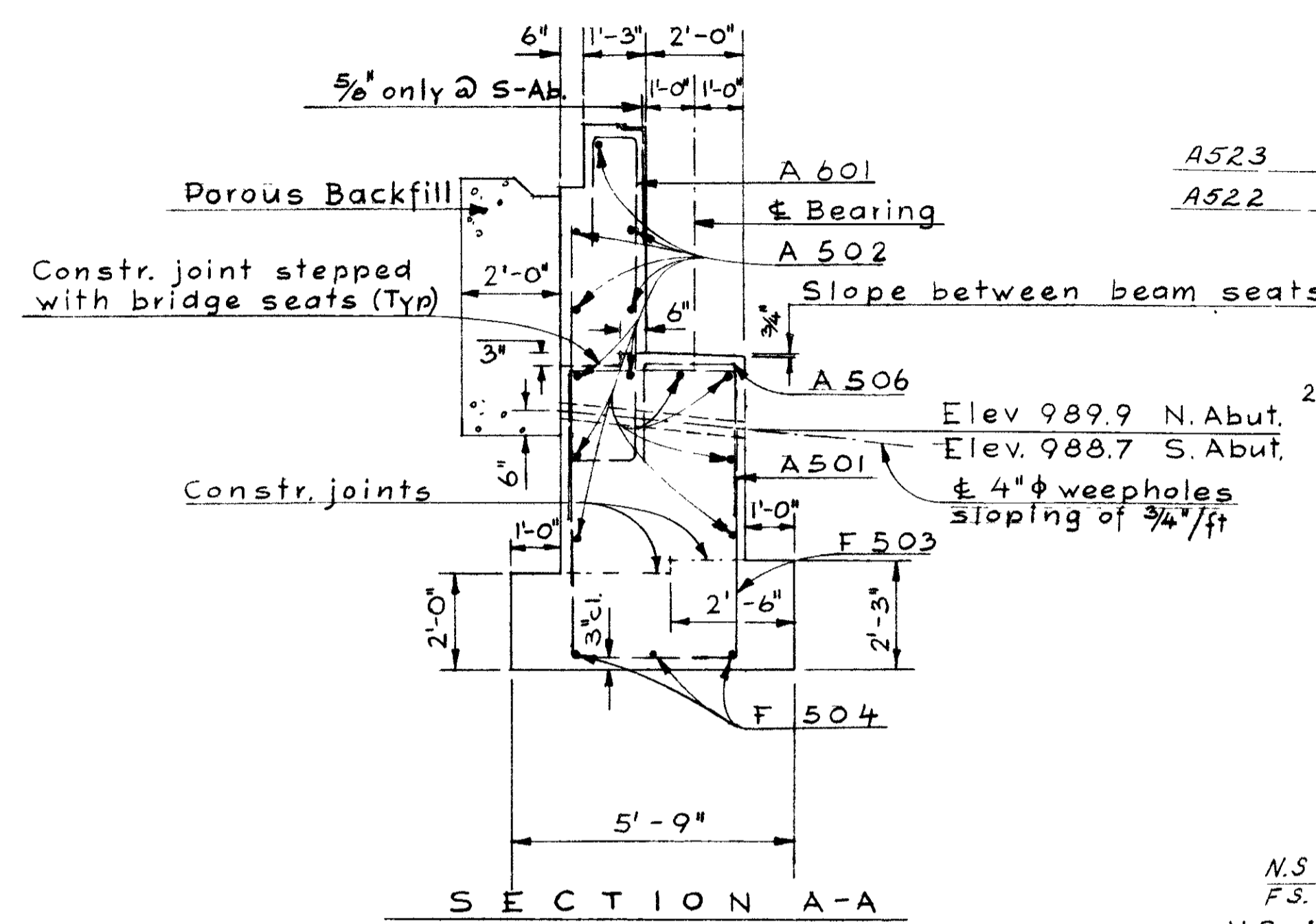
MONTGOMERY COUNTY
ACI-1097(4) STA 335+05.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	H.S.		BETTIN	TLU	1-3-58	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

148
241

MONTGOMERY COUNTY
MOT-40-5.98
MOT-49-12.45



Note:
The Embankment shall be placed and compacted up to the finished slope and to the level of the subgrade for a distance of 200' back of the abutment, after which excavation for the abutment shall be made.
Porous Backfill as shown between wingwalls shall extend to underside of the approach slab or I-22.
Concrete Parapets are included in Item 5-A for payment.

ELEVATIONS		
Location	S. Abutment	N. Abutment
I	984.19	985.45
J	993.85	995.12
K	993.92	995.20
L	993.69	995.10
M	994.18	995.32
N	994.24	995.40
P	994.09	995.34

Note:
Reinforcing Steel:
N.S. indicates Near Side
F.S. indicates Far Side

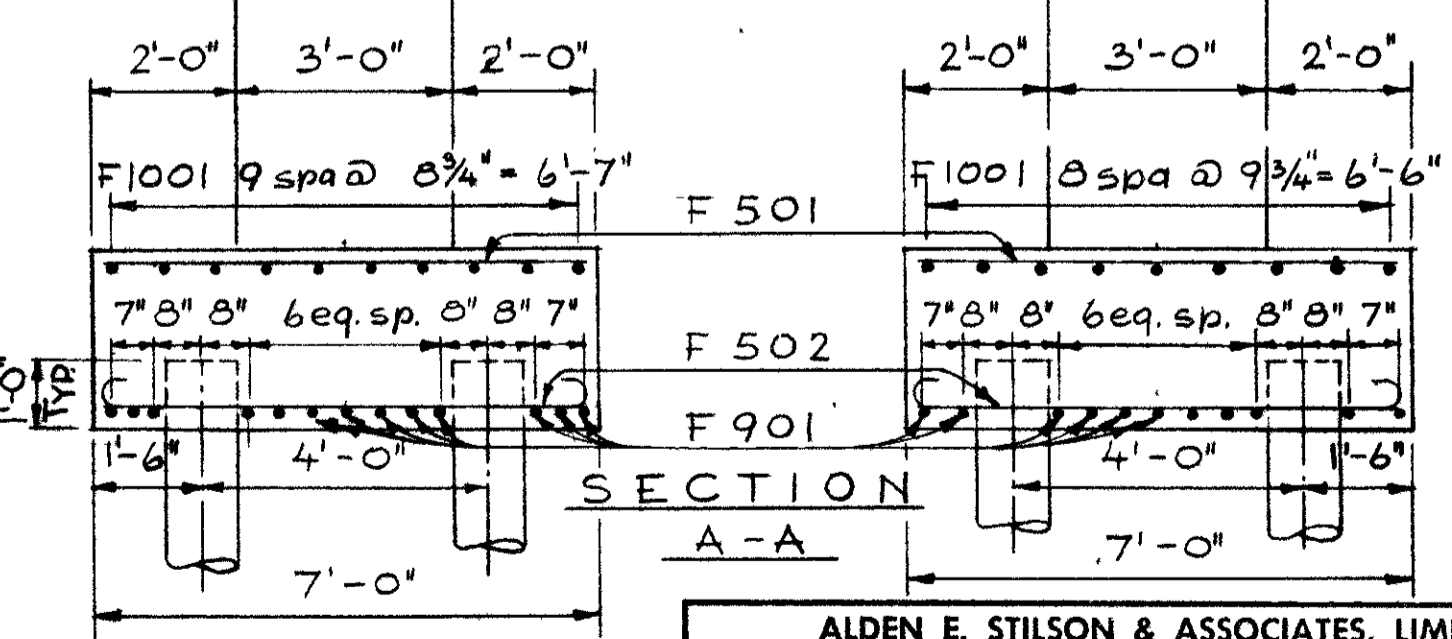
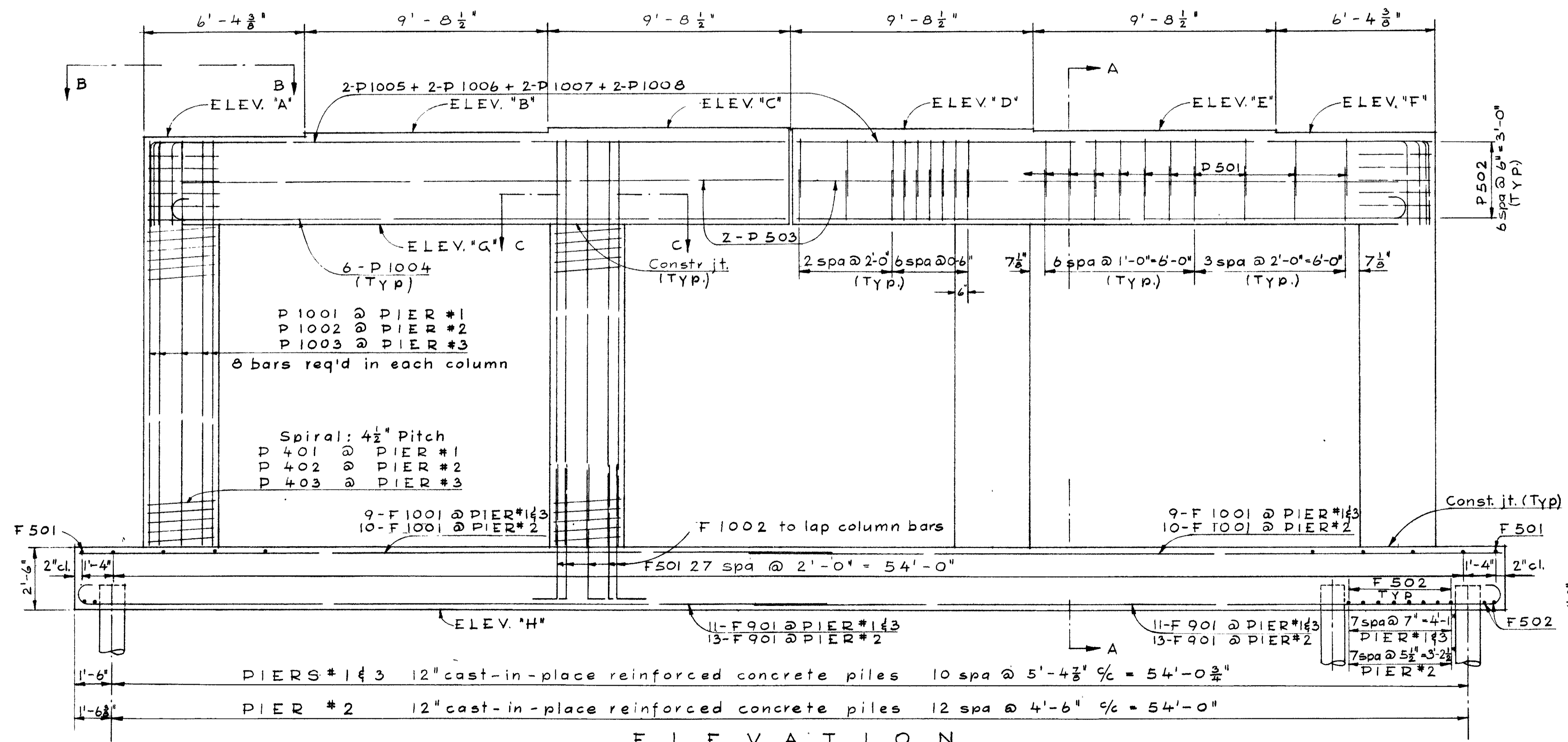
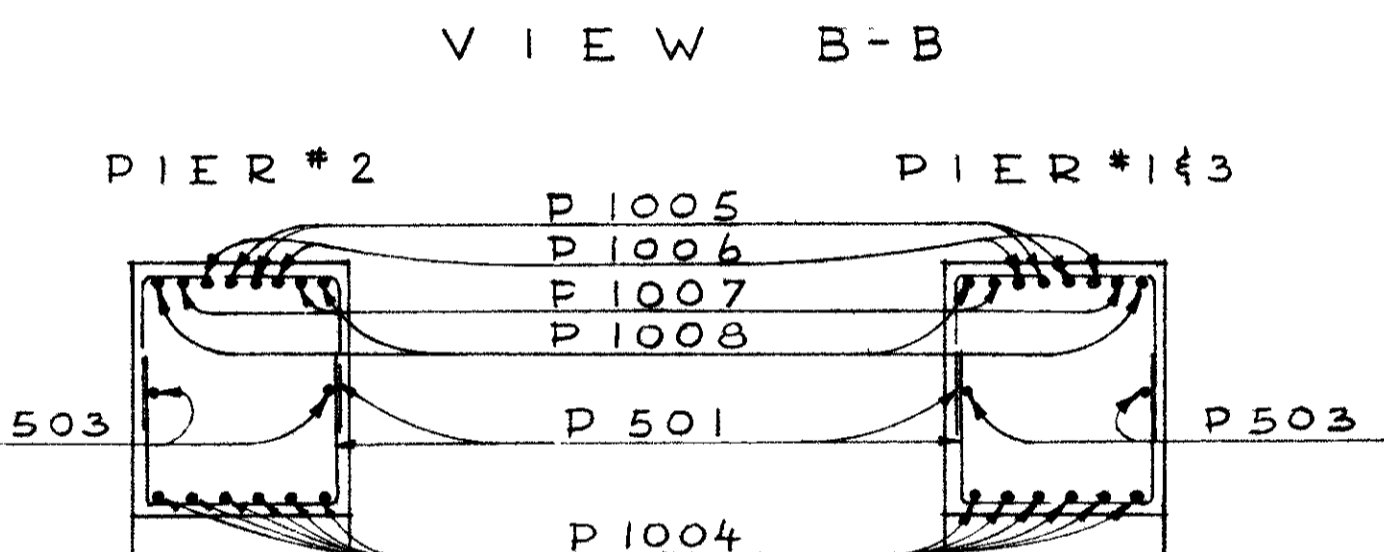
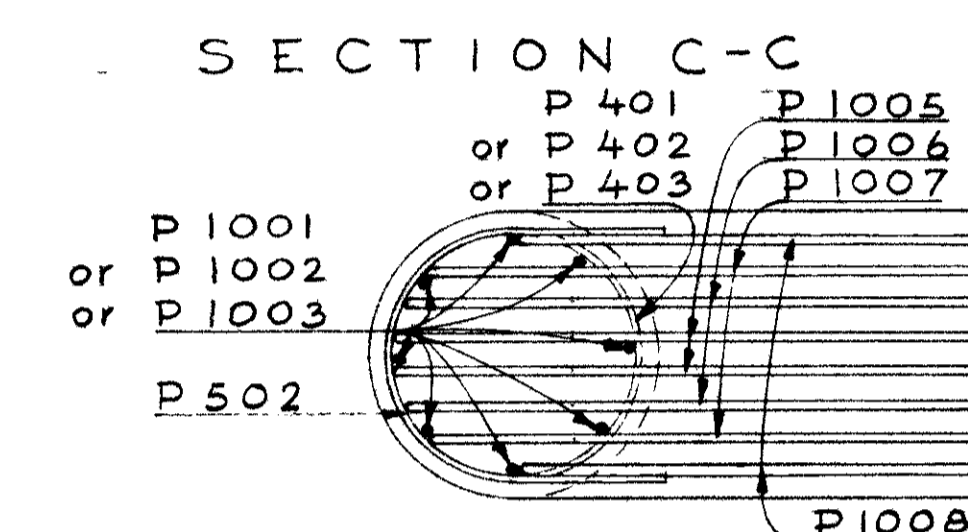
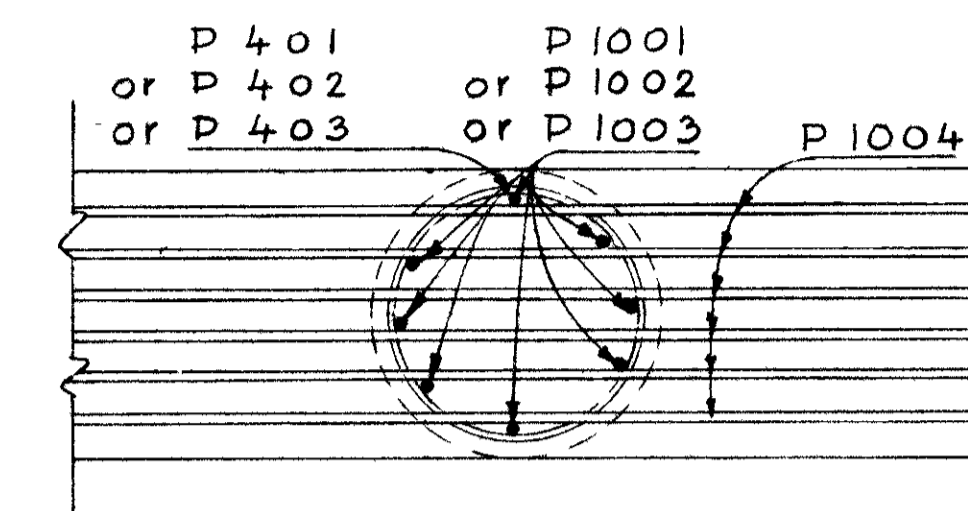
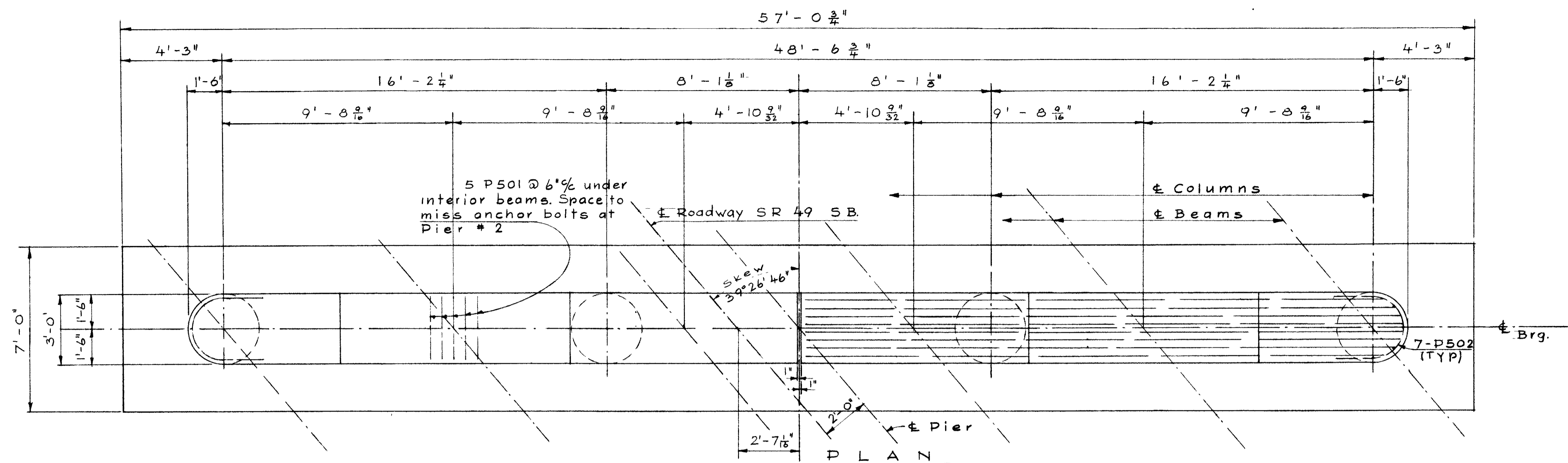
ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

ABUTMENT DETAILS
BRIDGE No: MOT-40-0631
U.S. 40 UNDER SB. SR49

MONTGOMERY COUNTY
ACI-1097(4) STA 335+05.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	H.S.		BETTIN	TU	4-3-58	

MONTGOMERY COUNTY
MOT 40-5.98
MOT 49-12.45



PIERS #1 & 3 12" cast-in-place reinforced concrete piles 10 spa @ 5'-4 3/8" c/c = 54'-0 3/8"

PIER #2 12" cast-in-place reinforced concrete piles 12 spa @ 4'-6" c/c = 54'-0"

ELEVATION

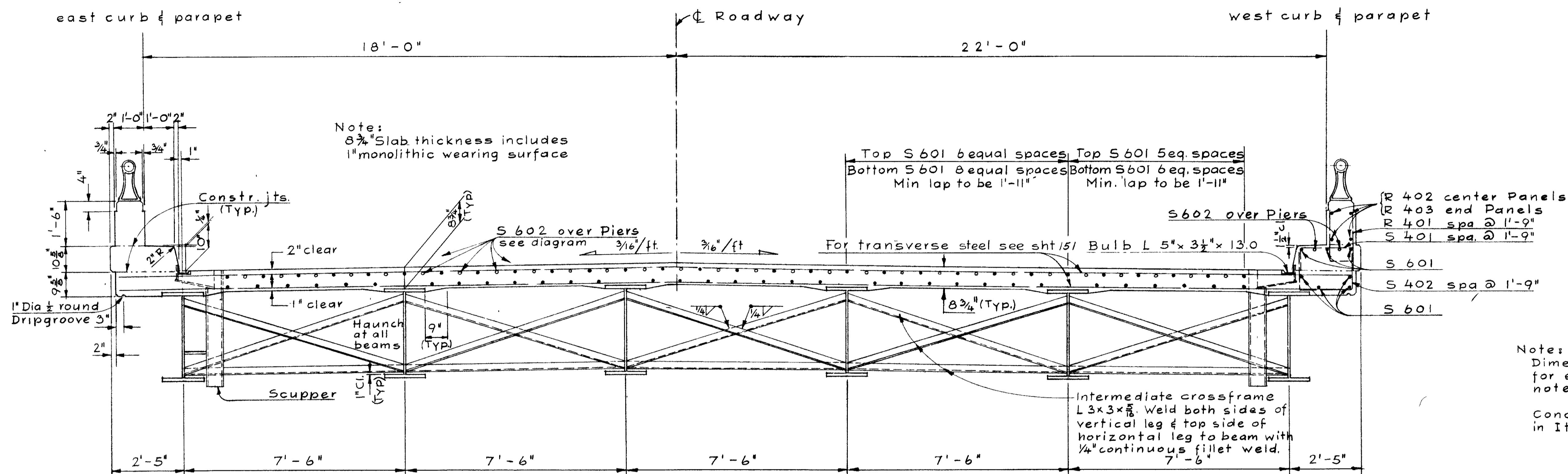
LOCATIONS	A	B	C	D	E	F	G	H
PIER #1	990.35	990.52	990.69	990.68	990.61	990.54	986.85	970.30
PIER #2	990.95	991.09	991.23	991.19	991.10	991.00	987.45	970.30
PIER #3	991.16	991.27	991.39	991.32	991.20	991.07	987.57	971.70

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

PIER DETAILS
BRIDGE No MOT-40-0631
U.S. 40 UNDER SB SR49

MONTGOMERY COUNTY
ACI-1097(4) STA. 335+05.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	H.S.		BETTIN	TU	4-5-58	

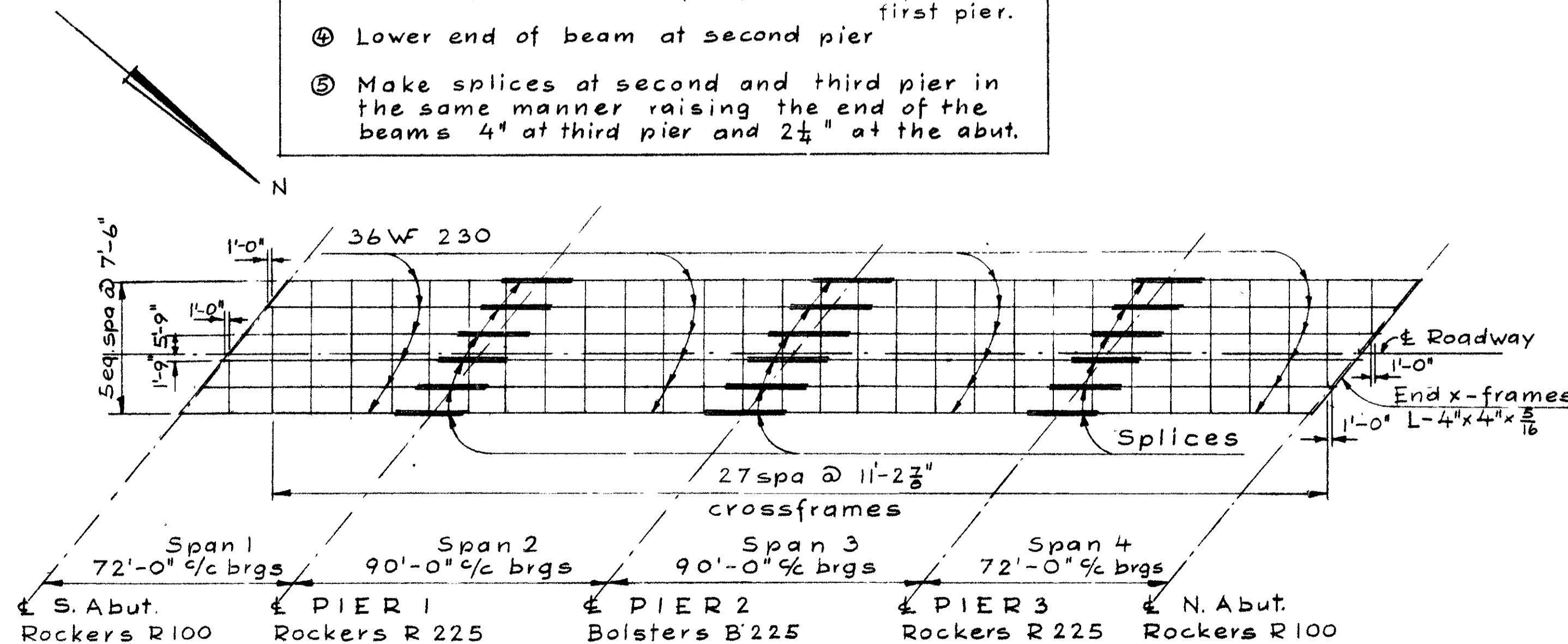


Note:
Dimensions and reinforcing same for each curb and parapet unless noted.
Concrete parapets are included in Item S-14 for payment.

TRANSVERSE SECTION

- Beam splice welding procedure
- ① Raise end of beam at second pier $3\frac{3}{4}$ "
 - ② Butt-weld beam flanges and web at first pier using the following sequence: make one pass on each flange then one on the web; repeat until welds are completed.
 - ③ Weld top and bottom flange moment plates at first pier.
 - ④ Lower end of beam at second pier
 - ⑤ Make splices at second and third pier in the same manner raising the end of the beams 4" at third pier and $2\frac{1}{4}$ " at the abut.

Location	Span 1 & 4		Span 2 & 3	
	Int.	Ext.	Int.	Ext.
Due to weight of steel	$-\frac{1}{8}$ "	$\frac{1}{8}$ "	$\frac{1}{8}$ "	$\frac{1}{8}$ "
Due to remaining D.L.	$\frac{7}{16}$ "	$\frac{7}{16}$ "	$\frac{9}{16}$ "	$\frac{9}{16}$ "
Due to Vertical Curve	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{5}{8}$ "
Total	$\frac{15}{16}$ "	$\frac{15}{16}$ "	$1\frac{3}{8}$ "	$1\frac{3}{8}$ "
Shop Camber req'd	1"	1"	$1\frac{3}{8}$ "	$1\frac{3}{8}$ "



FRAMING PLAN

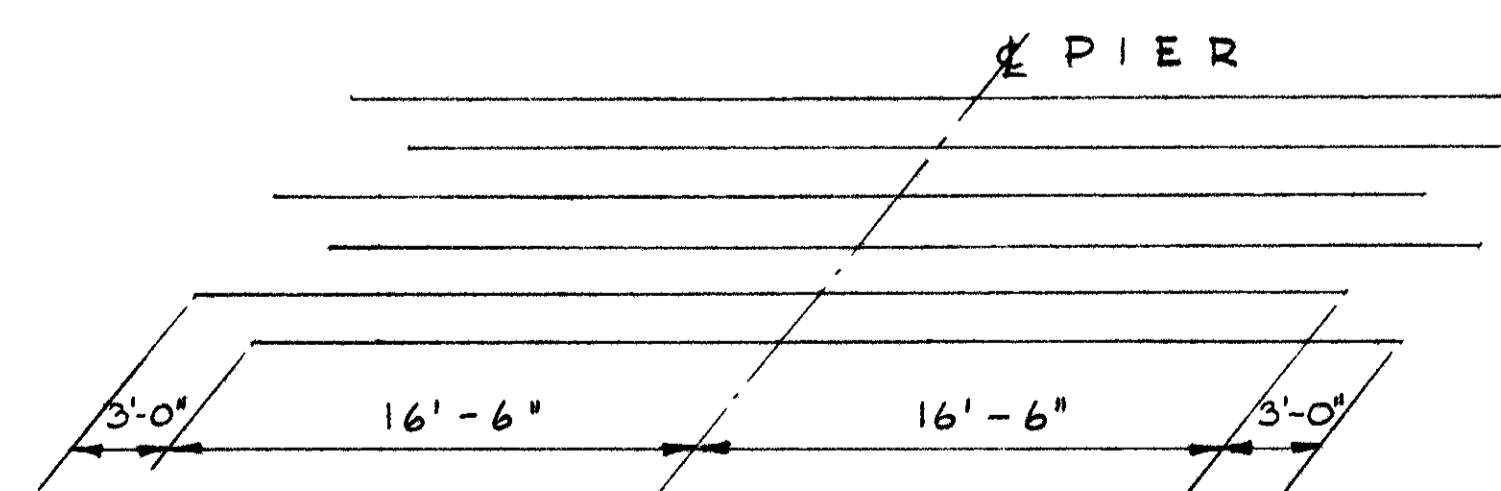


DIAGRAM SHOWING STAGGER OF S 602 BARS OVER PIERS

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

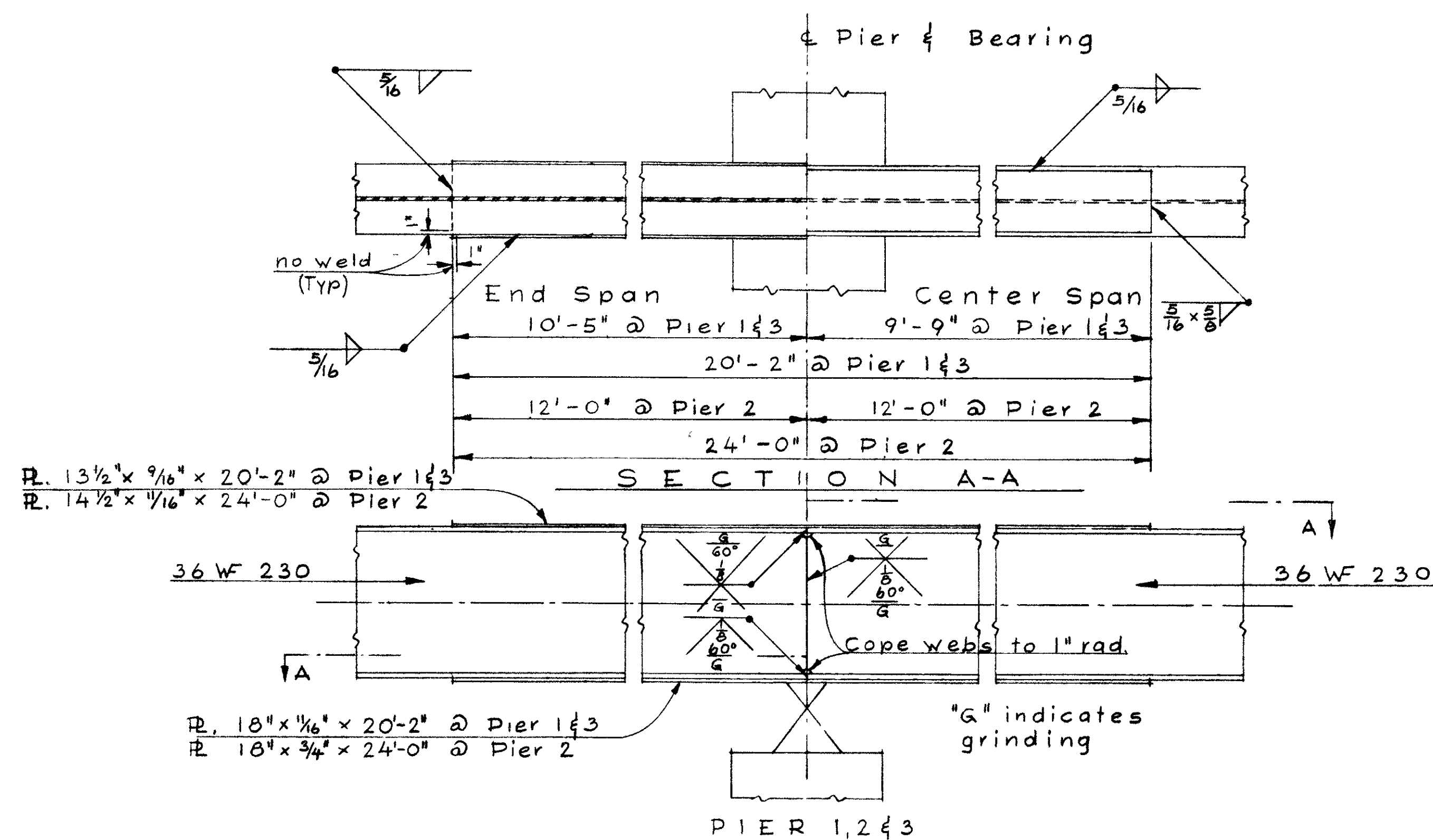
SUPERSTRUCTURE
DETAILS
BRIDGE No MOT-40-0631
U.S. 40 UNDER S.B. SR 49
MONTGOMERY COUNTY
ACI-1097(A) STA 335+05.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	H.S.		BETTIN	TLO	4-3-58	

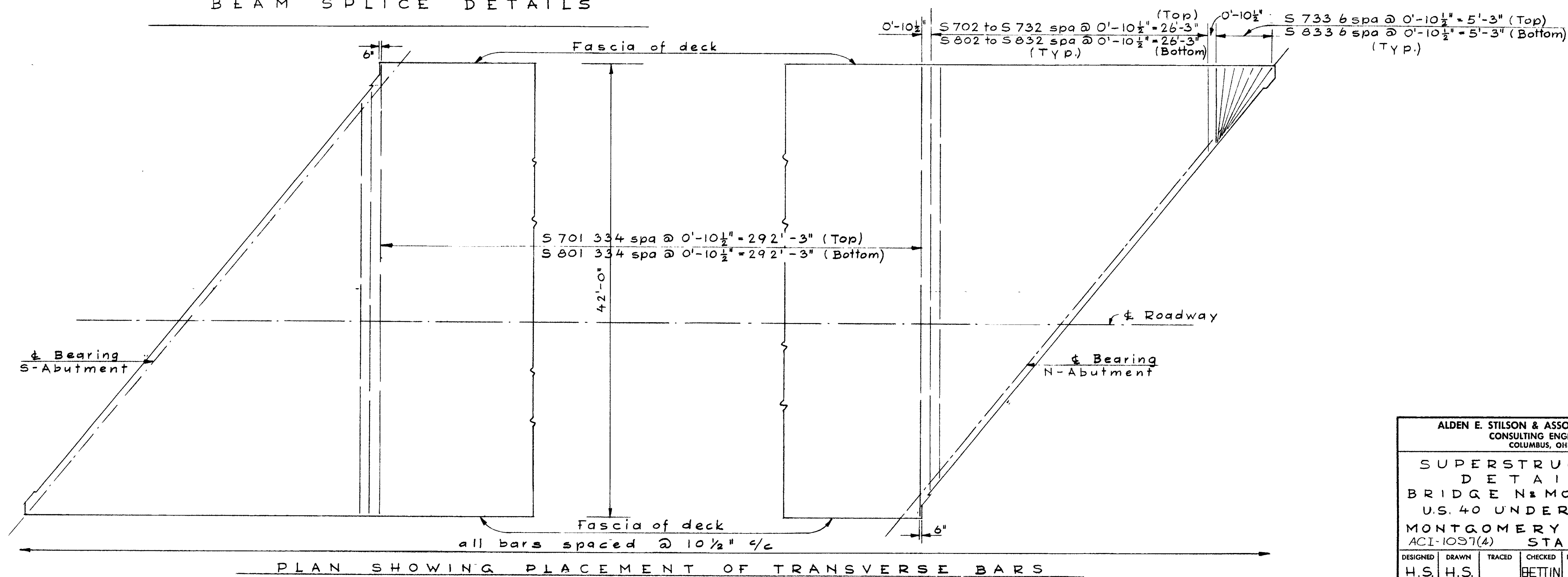
FED RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

151
241

MONTGOMERY COUNTY
MOT-40-5.98
MOT-49-12.45



BEAM SPLICE DETAILS



PLAN SHOWING PLACEMENT OF TRANSVERSE BARS

ALDEN E. STILSON & ASSOCIATES, LIMITED CONSULTING ENGINEERS COLUMBUS, OHIO						
SUPERSTRUCTURE DETAILS BRIDGE N& MOT-40-0631 U.S. 40 UNDER S.B. SR49 MONTGOMERY COUNTY ACI-1097(4) STA 335+05.75						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	H.S.		BETTIN	7/20	1/3/58	

REINFORCING

STEEL

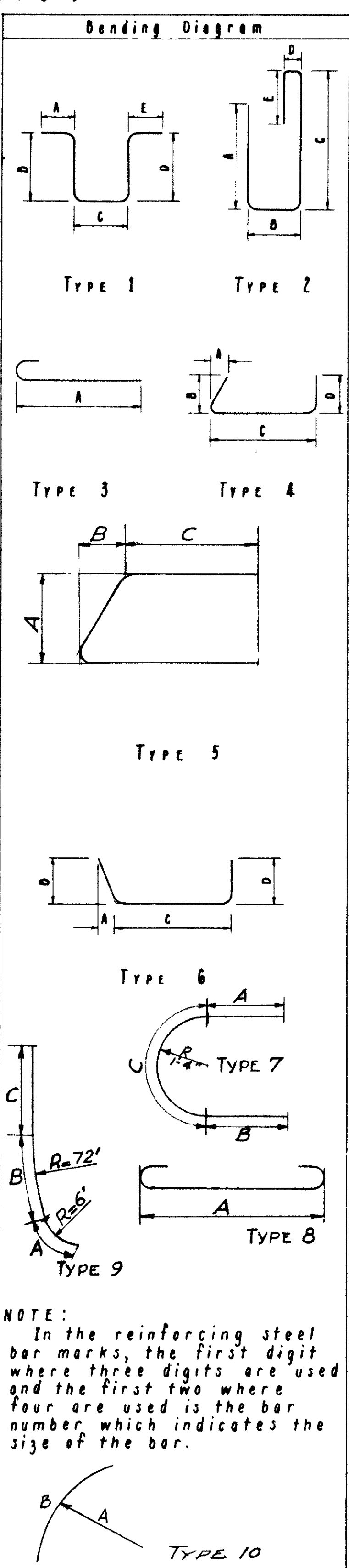
LIST

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

152
241

Montgomery County
Mot - 40 - 5.98
Mot - 49 - 12.45

Mark	N ^o	Length	Weight	Type	"A"	"B"	"C"	"D"	"E"	Shape
Abutments										
A501	52	8-4	452	1		2-7	3-5	2-7		6t
A502	52	27-1	1469							5t
A503	48	5-7	280							5t
A504	12	13-6	169							5t
A505	12	9-9	122							5t
A506	60	4-9	297	1		1-7	1-10	1-7		6t
A507	32	5-6	184							5t
A508	32	4-6	150							5t
A509	28	3-3	95	1		1-1	1-4	1-1		6t
A510	28	3-6	102	5	1-4	0-2	1-1			6t
A511	4	17-6	73							5t
A512	4	18-4	76	9	1-2	11-0	6-2			6t
A513	8	3-6	29							5t
A514	8	16-3	136							5t
A515	8	3-4	28							5t
A516	8	12-3	102							5t
A517	8	4-5	37							5t
A518	4	13-6	56							5t
A519	4	12-10	54	9	1-2	11-0	0-8			6t
A520	20	3-0	63							5t
A521	10	5-0	52							5t
A522	4	2-9	11	1		0-10	1-4	0-10		6t
A523	4	3-0	13	5	1-4	0-2	0-10			6t
REPLACEMENT STEEL										
F503	52	13-2	714	1		5-0	3-5	5-0		6t
F504	12	28-4	355							5t
F505	20	8-1	169	1		3-7	1-2	3-7		6t
F506	4	14-10	62							5t
F507	4	12-0	50							5t
F508	4	4-0	17							5t
F509	4	7-5	31	1		3-7	0-6	3-7		6t
F510	2	5-0	10							5t
REPLACEMENT STEEL FOR SPIRALS										
RE401	1	5-3				10	1-3 1/2	5-3		6t
Piers										
F501	90	6-8	626							5t
F502	268	7-10	2,190	8		6-8				6t
F901	70	31-0	7,378	3		28-9				6t
F1001	56	30-0	7,229							5t
F1002	96	6-4	2,616	1	1-4	5-4				6t
Spalls										
P501	228	7-3	1,724	1		2-5	2-8	2-5		6t
P502	42	7-5	325	7	1-7	1-7	4-3			6t
P503	12	24-0	300							5t
P1001	32	17-5	2,398							5t
P1002	32	18-0	2,479							5t
P1003	32	16-9	2,306							5t
P1004	36	25-10	4,002	3	24-5					6t
P1005	12	28-3	1,459	1	3-4	25-3				6t
P1006	12	28-2	1,454	1	3-4	25-2				6t
P1007	12	27-11	1,442	1	3-4	24-11				6t
P1008	12	27-0	1,394	1	3-4	24-0				6t



		ESTIMATED QUANTITIES					
ITEM	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPERS.	GENERAL
E-2	468	cu.yd	Unclassified Excavation	281	187		
S-1	427	cu.yd	Class "C" concrete, Superstructure				427
S-1	109	cu.yd	Class "C" concrete, Pier Caps & Columns		109		
S-1	117	cu.yd	Class "E" concrete, Abutments above footings	117			
S-1	168	cu.yd	Class "E" concrete footings	57	111		
S-4	170,543	l.b	Reinforcing Steel	7,962	42,472	120,109	
S-7	540,864	l.b	Structural Steel			540,864	
S-8	540,864	l.b	Field Painting of Structural Steel			540,864	
S-14	712	lin.ft	Railing (Aluminum Rails and Supports & Concrete Parapet)				712
S-16	Lump	Sum	First Test Pile				Lump
S-18	1540	lin.ft	12" Cast-in-Place Reinforced Concrete Piles		1540		
S-29	38	cu.yd	Porous Back fill	38			
S-29	223	cu.yd	Slope Facing (S-29.05 type)				223

SPIRALS - HOT ROLLED

Mark	N ^o	Length	Core	Pitch	Turns	Spacers	Weight
P401	4	14-1	32	4 1/2	41	16	1058
P402	4	14-8	32	4 1/2	42	16	1086
P403	4	13-5	32	4 1/2	39	16	1006

SPIRALS

THE 'LENGTH' SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE PIER CAP.

THE 'NO. OF TURNS' SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE 'LENGTH' DIVIDED BY THE PITCH, PLUS 3 TURNS (TOTAL NUMBER OF CLOSED COILS), EXPRESSED AS THE NEAREST WHOLE NUMBER.

SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT

SHALL IN OTHER RESPECTS CONFORM TO ITEM S-4

1 1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT.

FOUR STEEL CHANNEL, TEE OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.68 LB. PER LIN. FT. OF SPACER, SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF POUNDS OF THESE SPACERS, BASED ON 0.68 LB. PER LIN. FT., WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

* HORIZONTAL PARAPET REINFORCING THESE BARS ARE INCLUDED WITH THE RAILING FOR PAYMENT.

REPLACEMENT BARS

IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS PREVIOUSLY BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY TEST SAMPLES AS PROVIDED IN SEC. S-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

STEEL LIST & ESTIMATED QUANTITIES

BRIDGE No - MOT-40-063/
U.S. 40 under Southbound S.R. 49
Montgomery County Sta. 335+0575
ACI-1097(4)

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.	J.F.F.		BETTIN	J.L.V.	4-3-58	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

153
241

MONTGOMERY COUNTY
MOT 40-598
MOT 49-12.45

REFERENCES:

Standard Drawings:

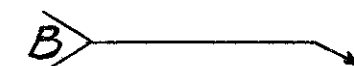
End Finish and End Cross Frame Details	- CSB-2-56 dated 12-3-56, revised 3-1-58.
Gutter and Scupper Details	- CSB-2-56 dated 12-3-56, revised 3-1-58.
Rocker and Bolster Details	- RB-1-55 dated 3-1-55
Railing Details Type A	- AR-1-57 dated 4-9-57, revised 3-1-58.
Supplemental Specifications	- S-114 rev. 8-1-57
Guardrail and Railing Details	- Sheet 144

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with revisions thereof dated 2-21-58.

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil sampling and soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

WELDED STEEL: The steel for the 36 WF 230 beams shall conform to ASTM Designation A-373. All other structural steel shall conform to either ASTM A-7 (as per Sec. M-7.4 (a) of the Construction and Material Specifications) or to A-373.

WELDING of structural steel shall be Class "A" except as otherwise shown. Any welds shown as field welds may, at the option of the Contractor, be made in the shop. Class "B" welding shown thus



EXCAVATION QUANTITY includes the removal of fill material between the subgrade elevation and the bottom of the abutment footing.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete in the deck slab, the placing of concrete shall progress upgrade. The slab may be placed in sections between transverse construction joints which are parallel to the transverse slab bars and are located near the center of any span.

SLOPE FACING shall be provided under the structure at both abutments. The porous drain material shall be 12" thick and shall extend transversely to 3 ft. outside the edge of the superstructure. At the N. abutment the longitudinal limits are the face of abutment and the toe of the 2:1 slope. At the S. abutment these limits are the face of abutment and a line 10'-0" ± north of and parallel to the centerline of the ditch.

PILES shall be driven to a minimum bearing capacity of 35 tons per pile for the piers.

FOUNDATION BEARING PRESSURE:

Dead Load -	
Abutments =	1.4 tons per sq. ft.
Dead Load + Vertical Live Load -	
Abutments =	1.9 tons per sq. ft.

MAXIMUM PILE REACTION: The maximum calculated pile reaction including lateral loads is as follows:

Piers 1 and 3 -	42.5 tons per pile
Pier 2 -	42.4 tons per pile

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

GENERAL NOTES

BRIDGE No MOT-40-0631

U.S.40 UNDER S.B. SR 49

MONTGOMERY COUNTY

ACI-1097(4)

STA. 335 + 05.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
				TLU	4-7-58	