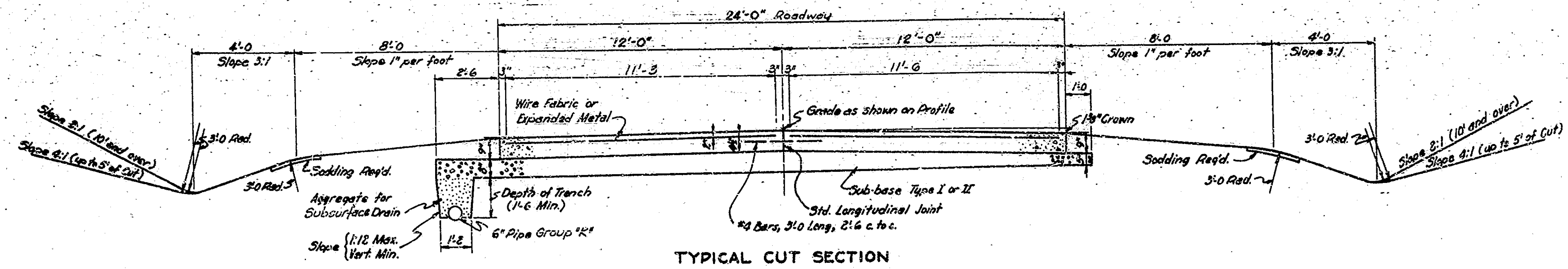
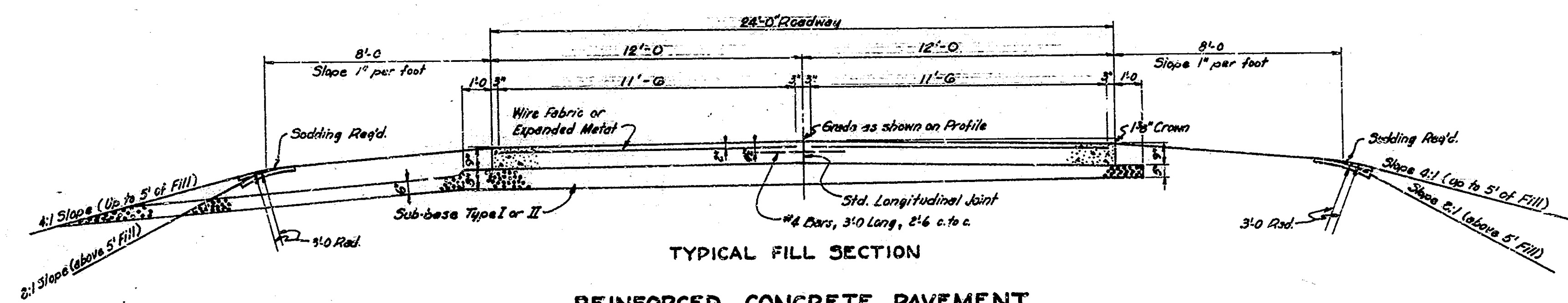




BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (88) 108	1963	3	134

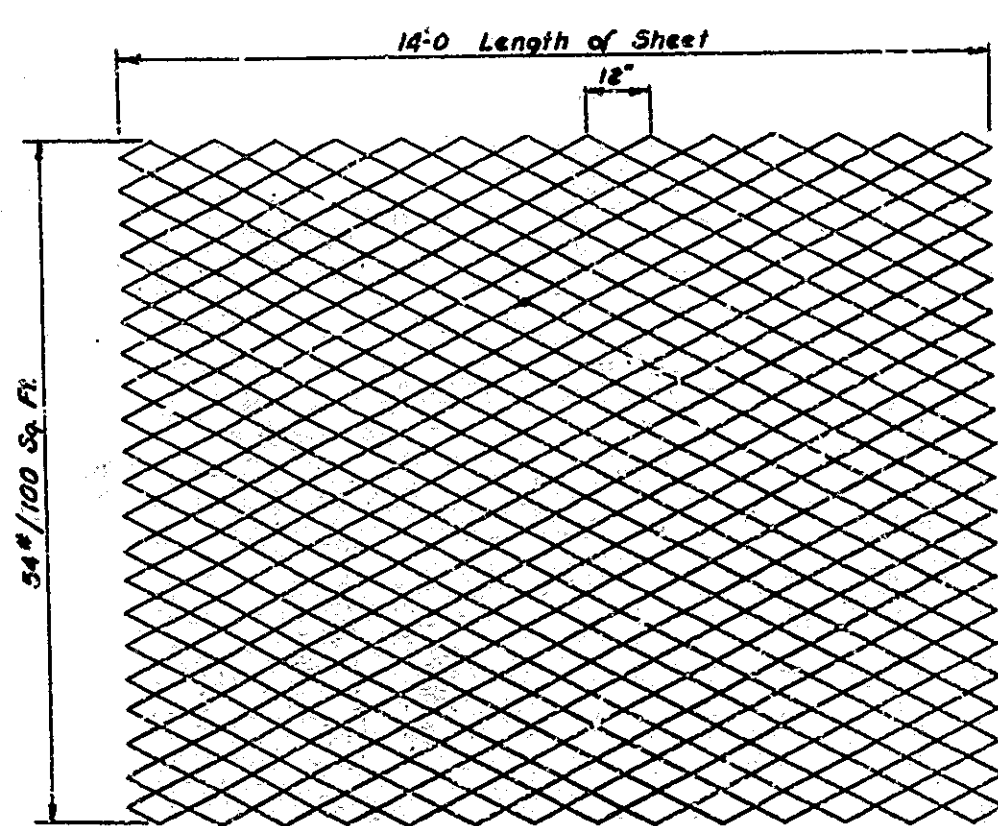


TYPICAL CUT SECTION

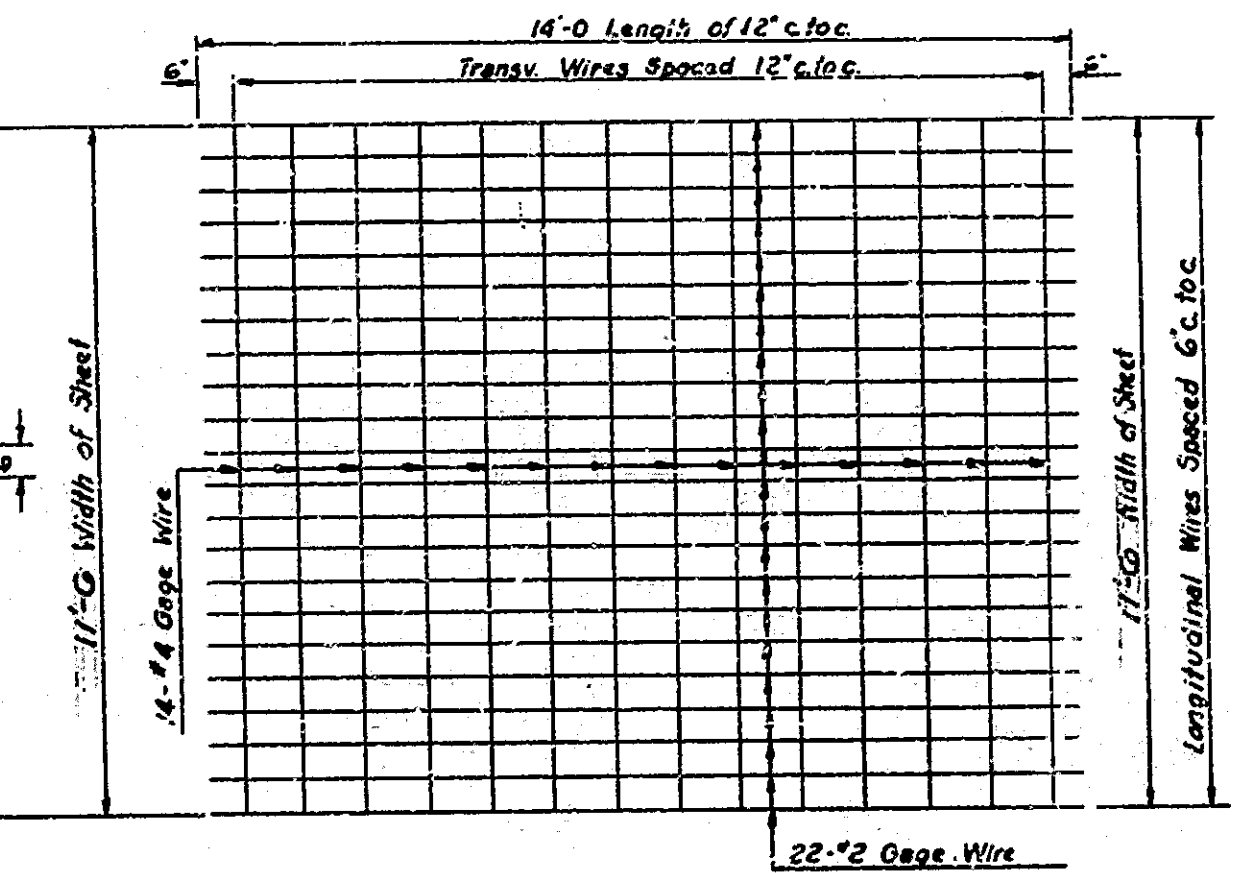


TYPICAL FILL SECTION

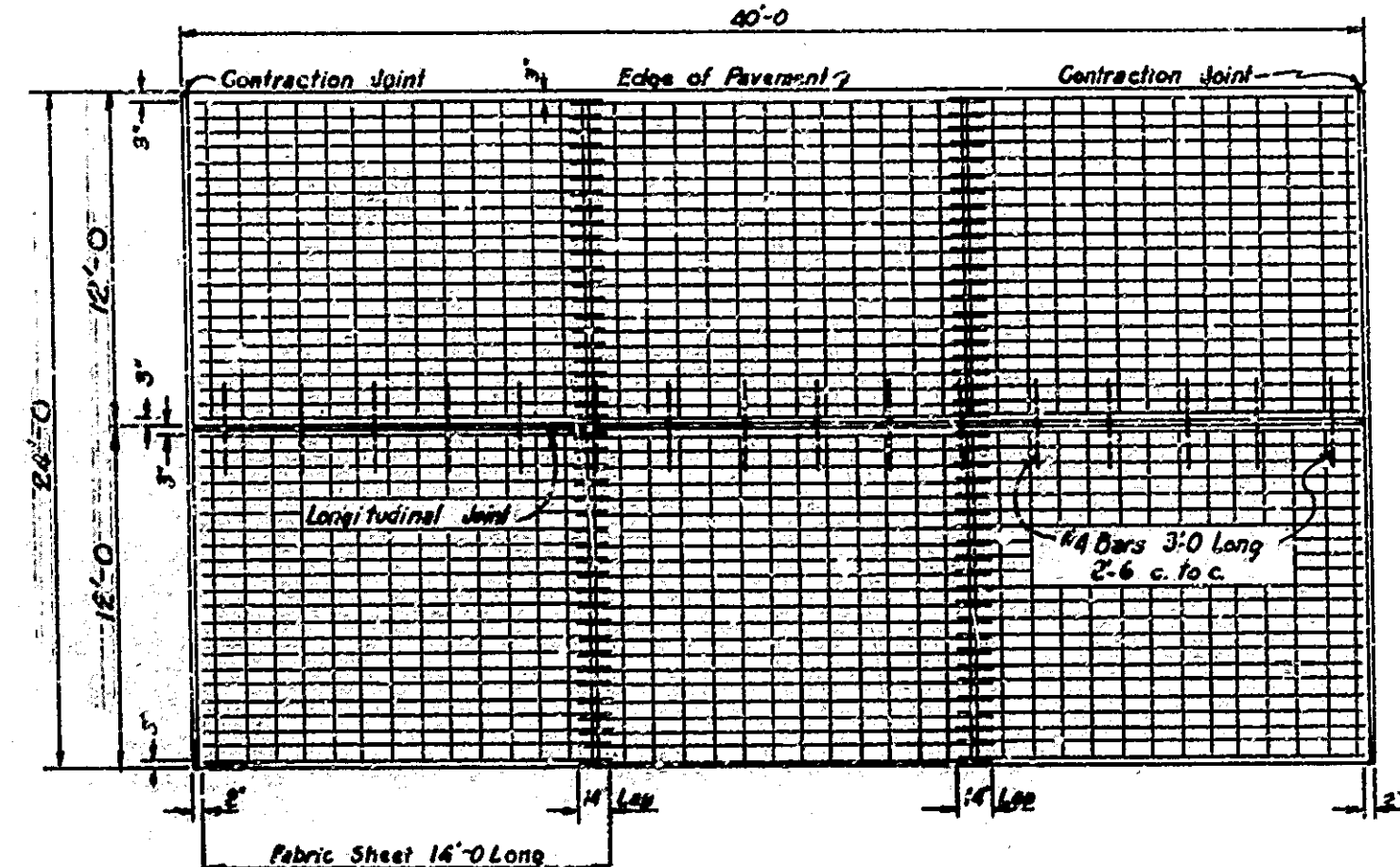
REINFORCED CONCRETE PAVEMENT  
Scale: 3/8" = 1'-0"



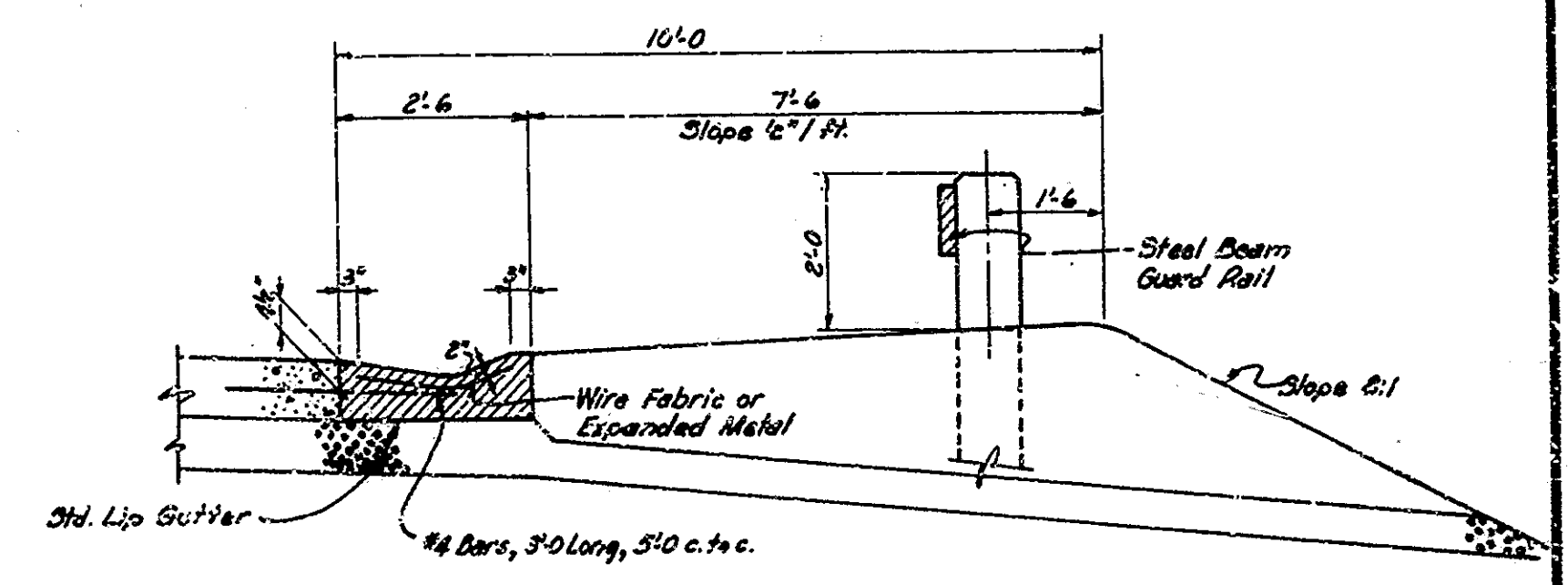
TYPICAL SHEET EXPANDED METAL FABRIC  
Scale: 3/8" = 1'-0"



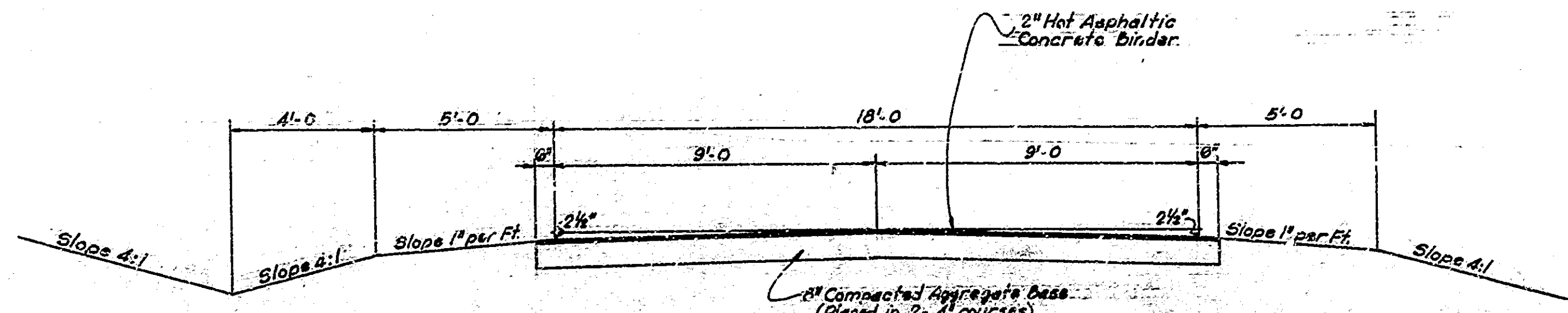
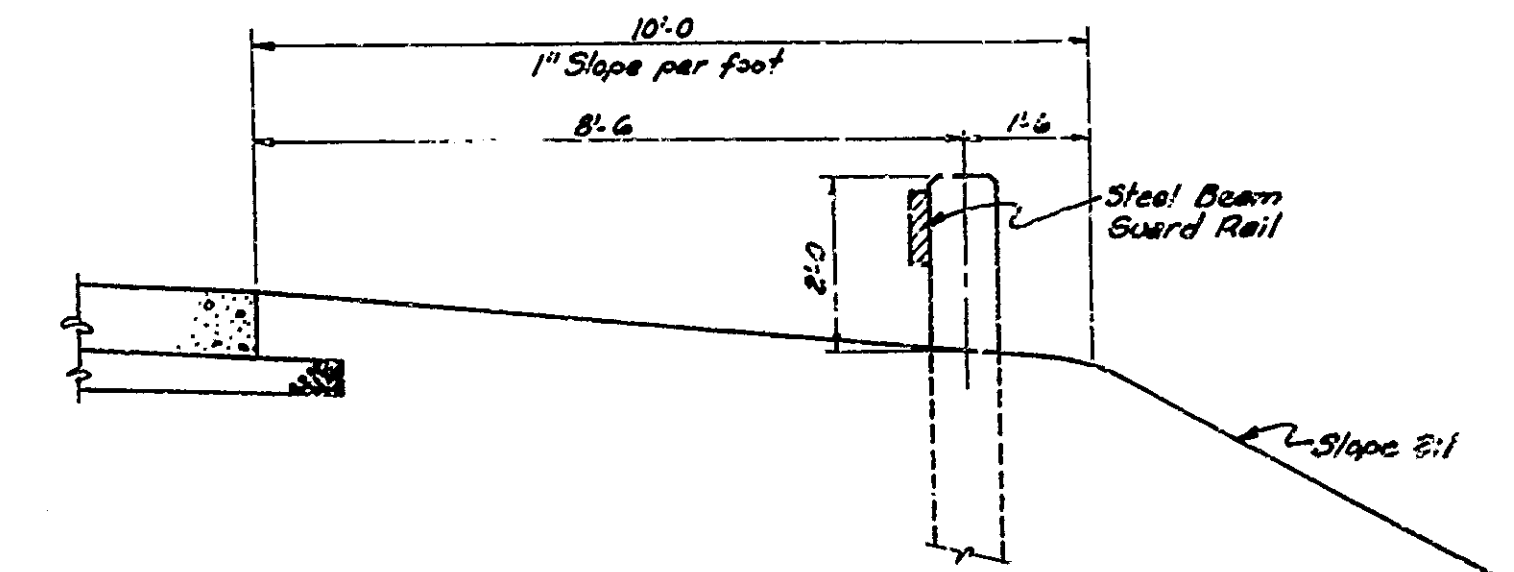
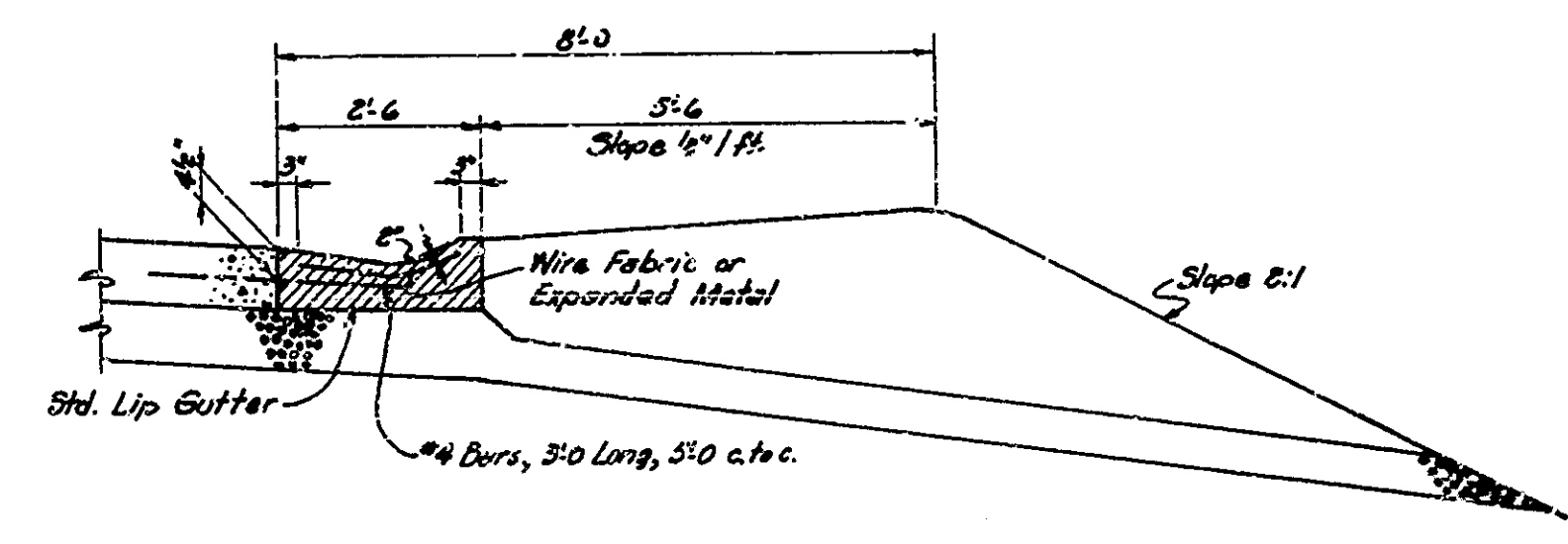
TYPICAL SHEET WIRE FABRIC  
Scale: 3/8" = 1'-0"



PLAN OF REINFORCED CONCRETE SLAB  
Scale: 3/8" = 1'-0"



SHOULDER DETAILS  
Scale: 1/2" = 1'-0"

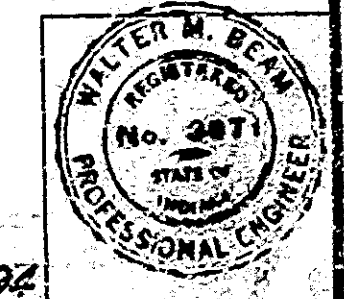


TYPICAL CROSS SECTION - FRONTAGE ROAD #3  
Scale: 3/8" = 1'-0"

TYPICAL CROSS SECTION

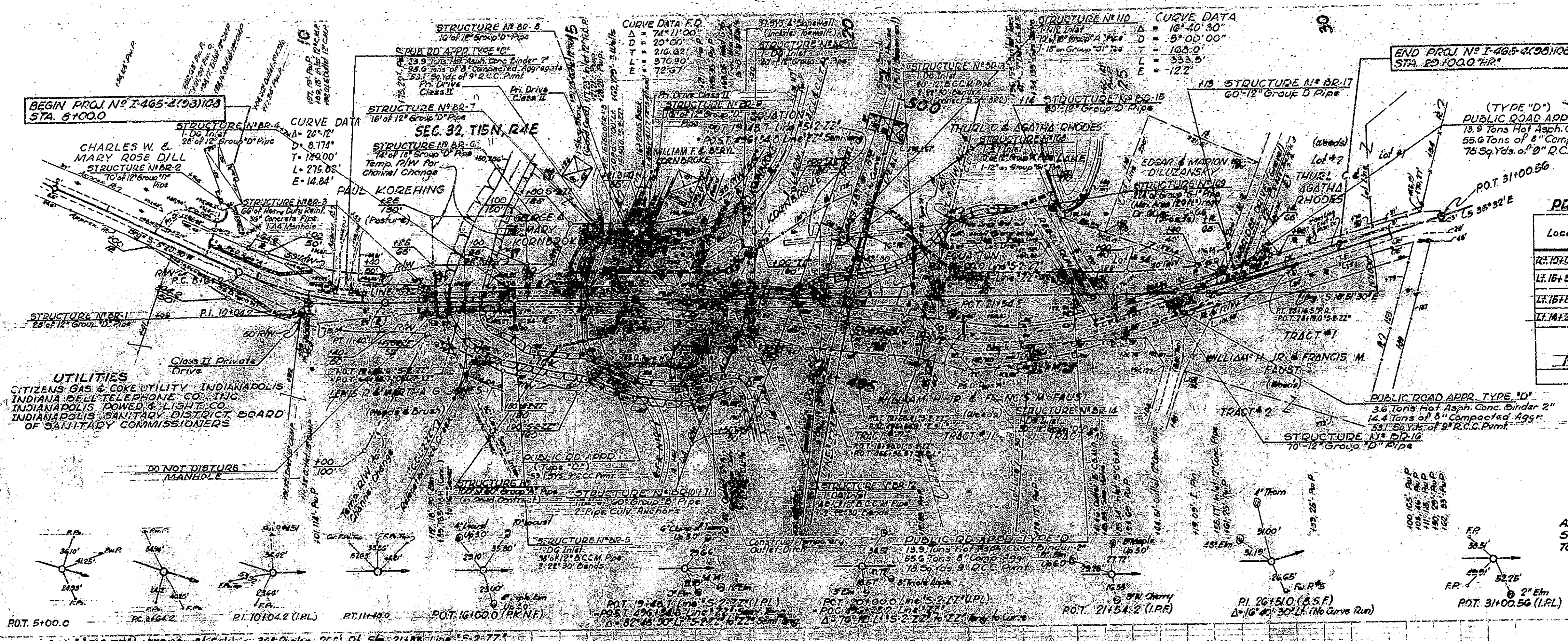
SCALE: As Noted November 14, 1962

PROJECT: I-465-4 (88) 108  
BRIDGE CONTRACT NO. 5922  
BRIDGE FILE: I-465-108-4403 & I-465-108-4794

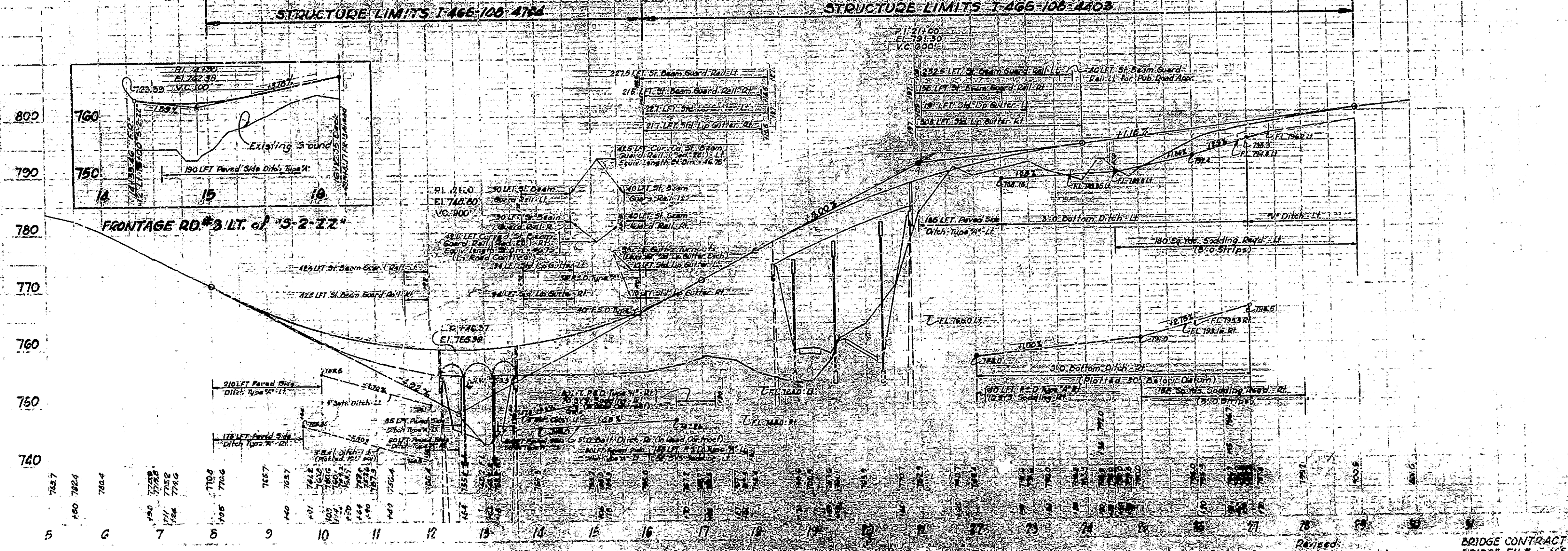


DESIGNED	C.K.D.
DRAWN	C.K.D.
TRACED	C.W.D.

PUB. JOB NO.	STATE	FISCAL YEAR	DISTRICT NO.	TOTAL SHEETS
4	IND.	1965	11	84



PROJECT LIMITS 1-465-4(99)108  
 STRUCTURE LIMITS 1-465-100-4184  
 STRUCTURE LIMITS 1-465-100-4403

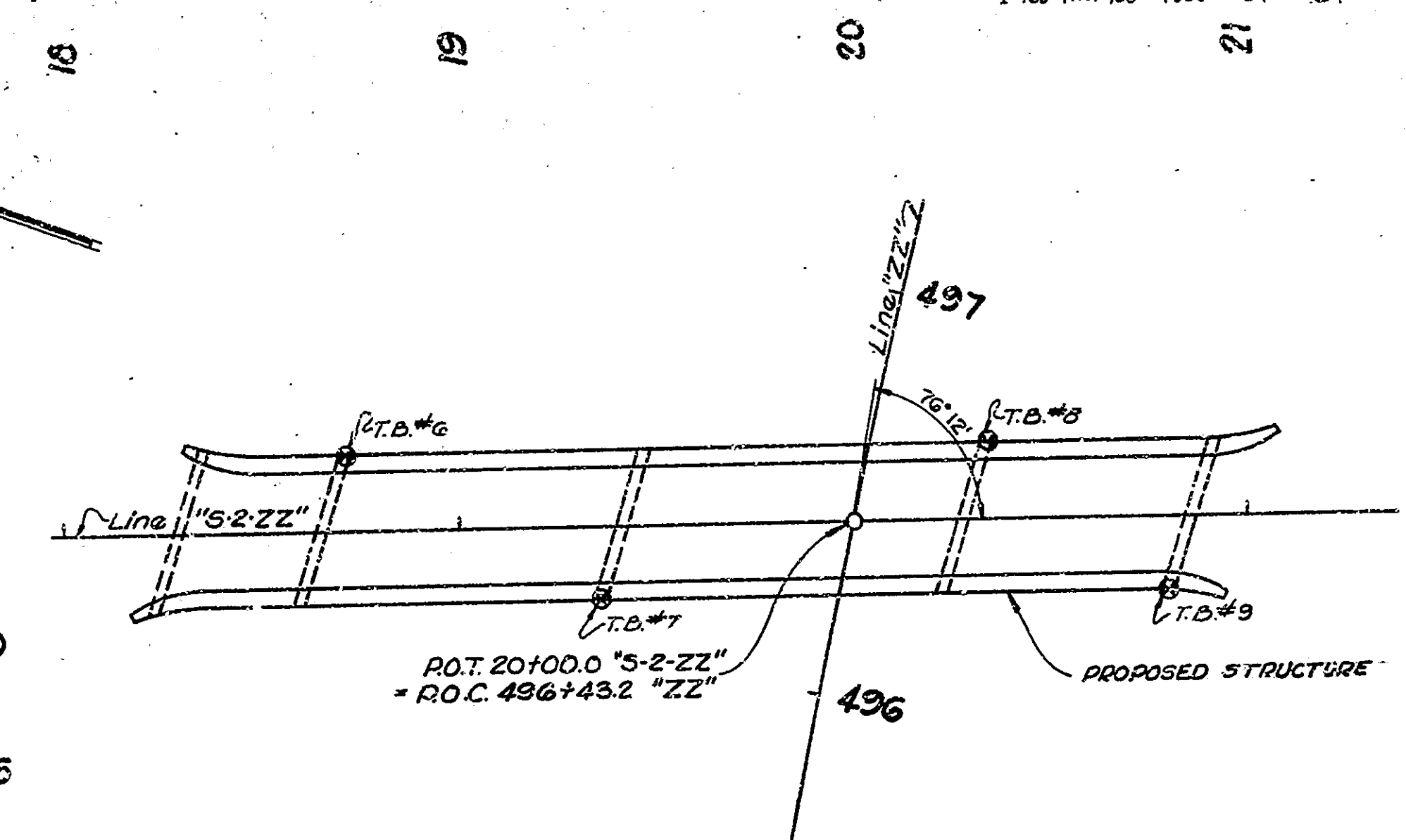


**PRIVATE DRIVES - CLASS II**

Location	Compacted Aggregate Base Tons	Hot Asphaltic Conc. Binder Tons
LT. 10+00 TO 10+22	13.4	6.7
LT. 16+50 TO 16+23	9.9	5.0
LT. 16+85 TO 16+23	9.9	5.0
LT. 14+22 TO 14+3	9.9	5.0
<b>FRONTAGE ROAD #3</b>		
	53.8	26.4

ALL RIW ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.

November 14, 1965



PLAN

BORING NO.	STATION	OFFSET	GROUND ELEV.	Sample No.	N	Description	Elev.
9	20+82	18' R.	783.0	1		Ground level	783.0
				2		Brown hard clayey SILT with a little fine to medium sand and a trace of organic material.	781.8
				3		Brown medium dense moist fine silty SAND with a trace of medium to coarse sand.	777.0
				4		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	770.5
				5		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	768.0
				6		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	765.0
				7		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	760.0
				8		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	755.0
				9		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	750.0
				10		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	745.0
				11		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	740.0
				12		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	735.0
				13		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	730.0
				14		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	725.0
				15		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	720.0
				16		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	715.0
				17		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	710.0
				18		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	705.0

BORING NO.	STATION	OFFSET	GROUND ELEV.	Sample No.	N	Description	Elev.
6	18+71.5	18' Lt.	785.2	1		Ground level	785.2
				2		Brown loose fine SAND with a trace of organic material.	781.5
				3		Brown very stiff moist clayey SILT with some fine sand and a trace of coarse sand.	780.0
				4		Brown moist hard clayey SILT with a trace of coarse sand.	775.0
				5		Dark gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel (hardpan).	770.0
				6		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel (hardpan).	765.0
				7		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	760.0
				8		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	755.0
				9		Brown moist lower medium dense fine to medium SAND with a little coarse sand.	750.0
				10		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	745.0
				11		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	740.0
				12		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	735.0
				13		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	730.0
				14		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	725.0
				15		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	720.0
				16		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	715.0
				17		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	710.0
				18		Gray moist very stiff to hard clayey SILT with a little fine sand and a trace of coarse sand and fine gravel.	705.0

Bottom of Boring  
Depth of Boring 35.5'

Free ground water not encountered.

Cobble of Sample No. 7

Note:  
 a - Denotes Ground Water Table.  
 N - Relative Density Number of blows required to drive a 6" O.D. Sample Spoon 6" with a 140# weight falling 50". First number represents blow count then disturbed soil and is not to be used.  
 See ATT. 205 of Specifications regarding Test 20 Data.

**SOIL BORINGS**

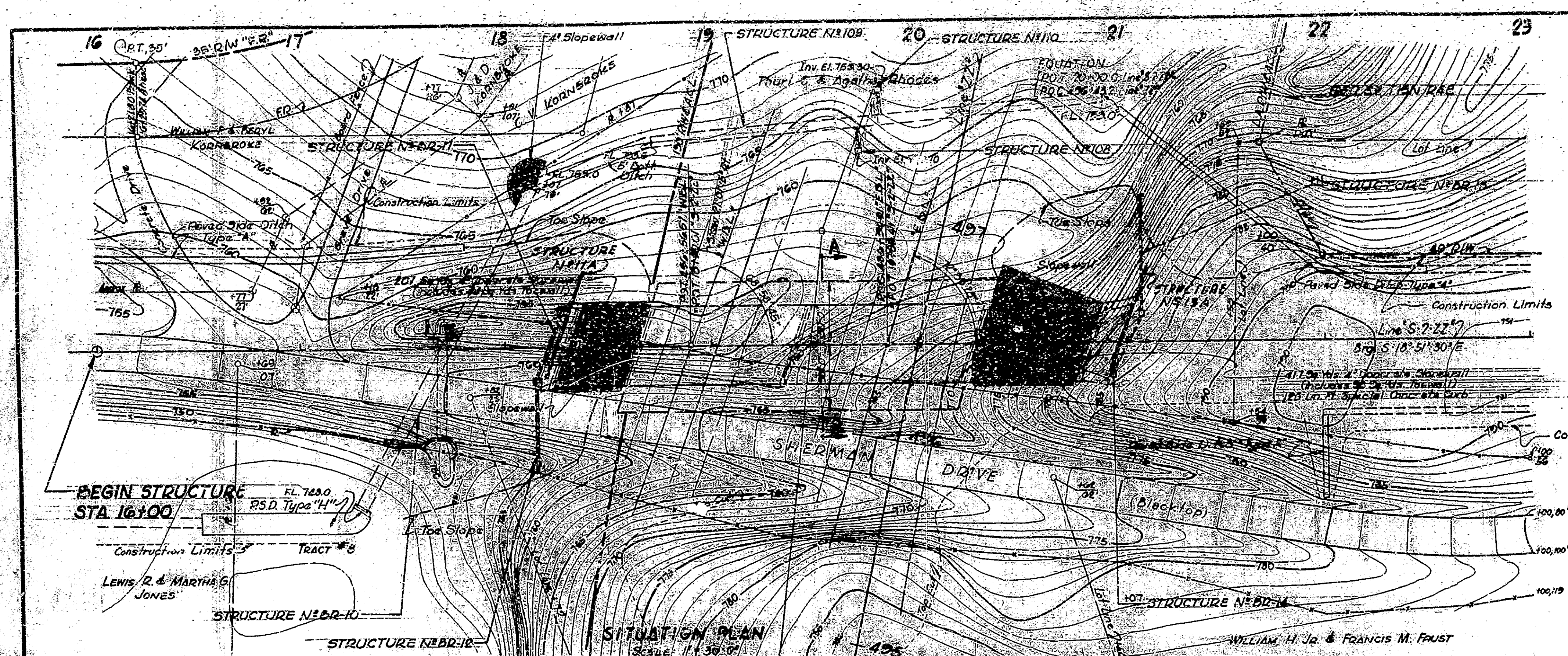
SCALES: Plan - 1" = 30'-0"  
 Log - 1" = 5'-0" Vert.

DATE: November 14, 1962  
 H. J. Ben

PROJECT: I-465-4(100) 108  
 BRIDGE CONTRACT NO. 5936  
 BRIDGE FILE: I-465-108-4403

BRIDGES OVER 20' SPAN				
PER. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	I-465-4 (98)108	1963	84

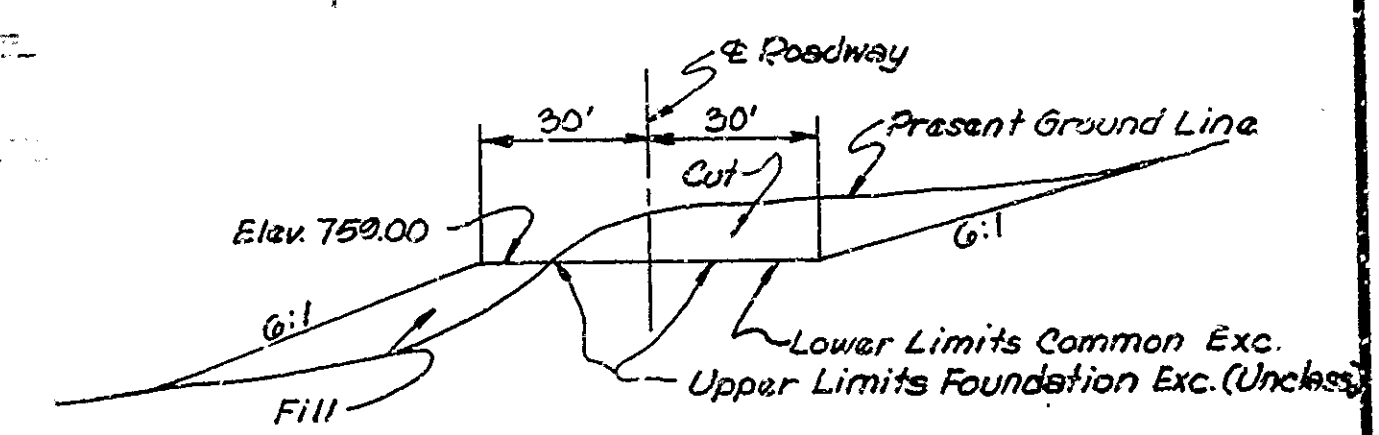
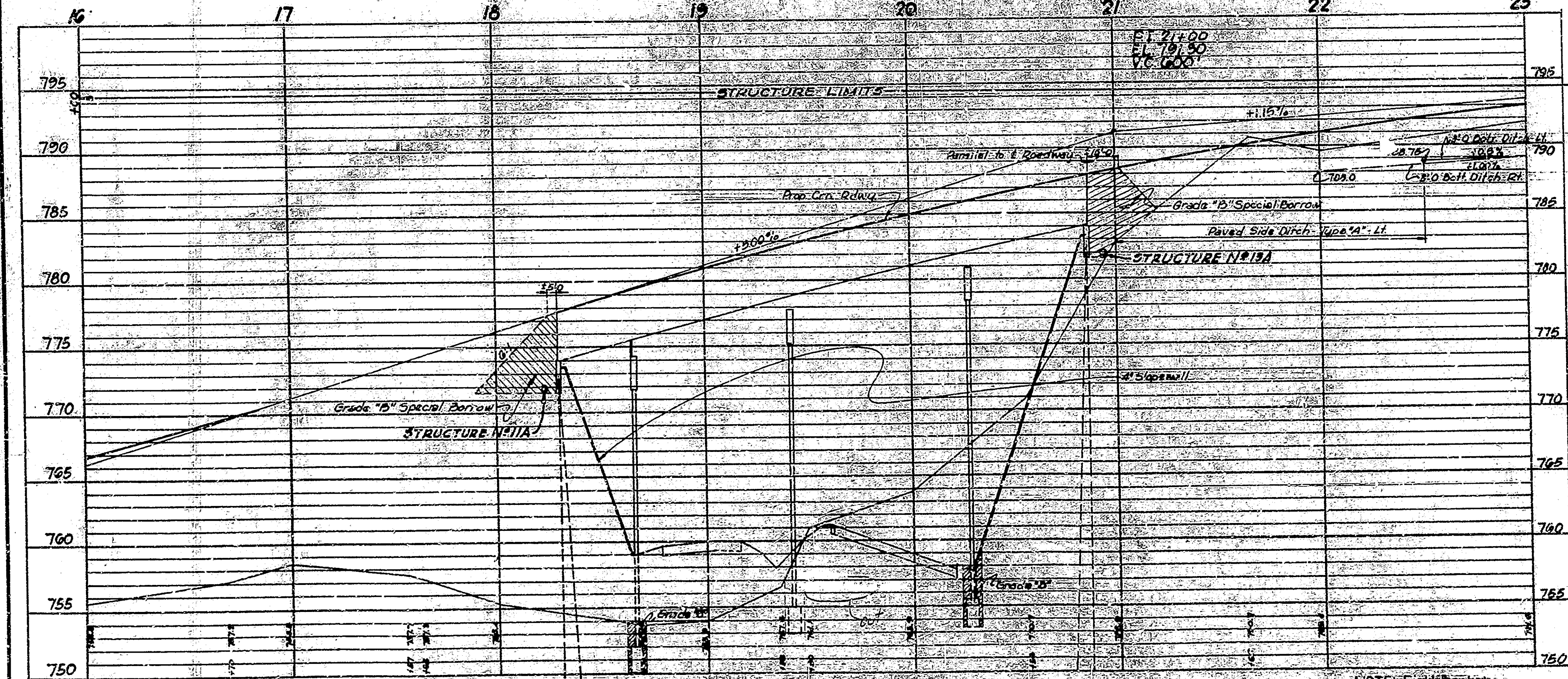
See Sheet N#6 for references, grade of ditches, guard rail, private drives, Sid. lip gutter, sodding, and miscellaneous approach structures.



**EARTHWORK SUMMARY**

Fill + 20%	18,628 Cu. Yds.	12.40
Common Excav. "S-2-22"	1,430 Cu. Yds.	
Common Excav. "S-2-22"	4,760 Cu. Yds. (West of Bridge I-465-108-4408)	
Common Excav. "Z-2"	15,250 Cu. Yds. (East of Bridge I-465-108-4408)	
Surplus Excav.	200 Cu. Yds.	
P.A.C. Balance	0	

\*Common Excav. "Z-2" Sta. 496+90 to Sta. 498+50  
Includes Excav. on F.R.#3



**LAYOUT**  
**REINFORCED CONCRETE GIRDER & CONTINUOUS COMPOSITE STEEL BEAM BRIDGE**  
 4 SPANS: 33'-0", 76'-0", 86'-3", & 57'-6" SKEW 21°01'15" RT.  
 28'-0" ROADWAY  
 2'-2'-0" WALKS

**SHERMAN DRIVE OVER I-465**  
**STATE HIGHWAY DEPARTMENT OF INDIANA**  
**MARION CO.**

SCALE: - As Noted  
 November 14, 1962

DESIGNED: S1 of 20  
 DRAWN: CWD  
 TRACED: CWD  
 STA. 19+41.46 "S-2-22"  
 PROJECT: I-465-4 (98) 108 - PIER N#3  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE: I-465-108-4408

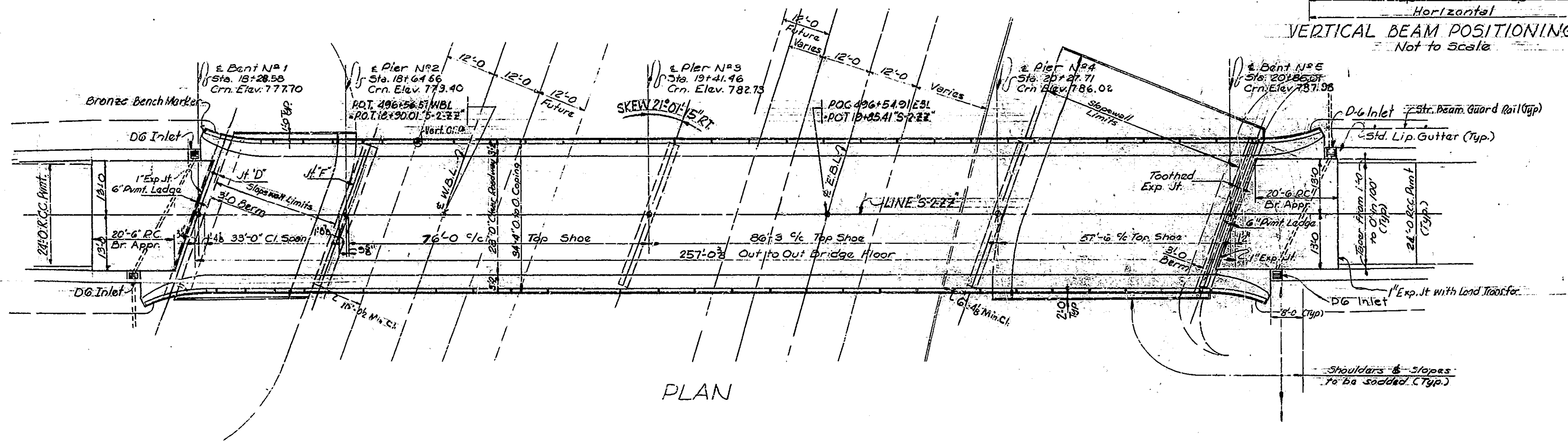
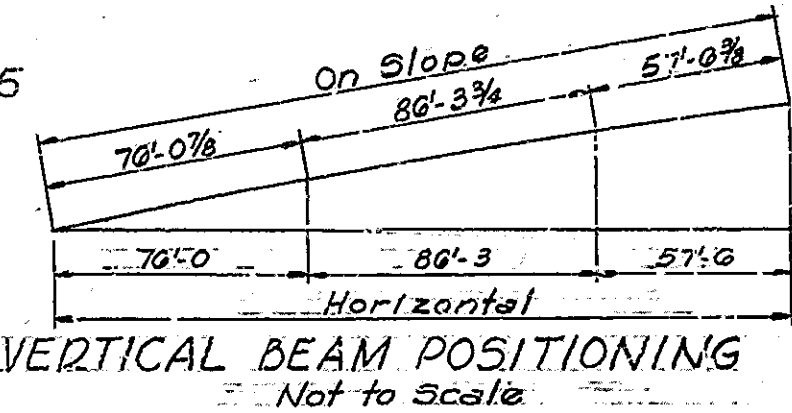
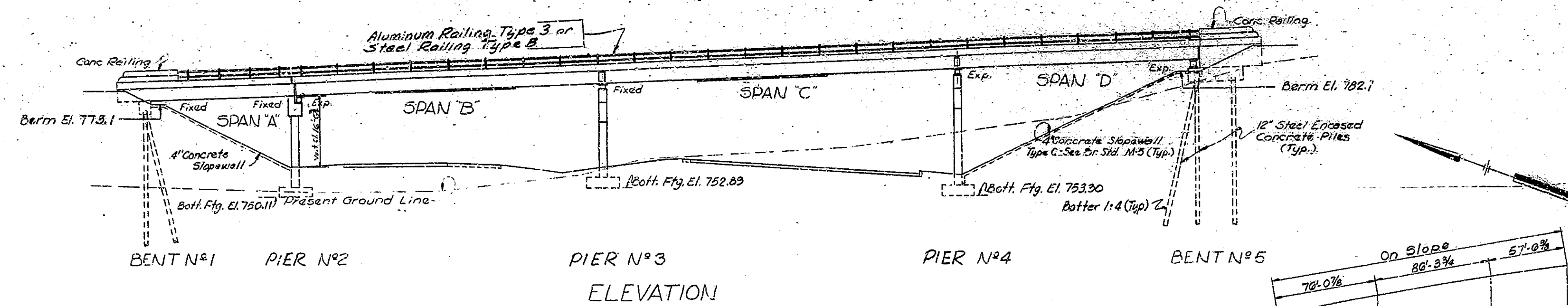
DESIGNED: S1 of 20  
 DRAWN: CWD  
 TRACED: CWD

PROFILE ON LINE "S-2-22"  
 SCALE: Horizontal 1" = 30' Vertical 1" = 5'

NOTE: Field Books: 7912  
 7913

STRUCTURE TO BE BUILT TO A 600' V.C.

BRIDGES OVER 20' SPAN					
FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-465-4	1963	26	84



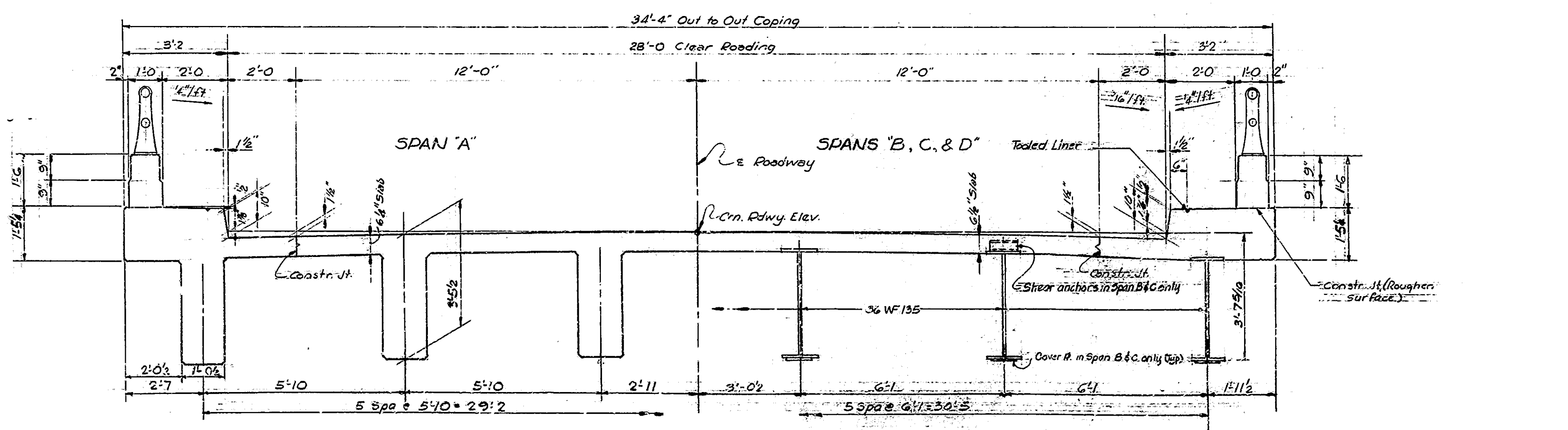
**GENERAL NOTES**  
 Depth of footings to be extended if found necessary. See Art. B 403.2 (b) of the Specifications.  
 Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by Art. F103 & F205 of the Specifications.  
 For details of steel-encased concrete piles see Br. 510, C1, and applicable articles in the Specifications.  
 Piles shall be driven to elevation necessary to obtain desired bearing.  
 Reinforcing steel covering shall be 1/2 inches in top & 1 inch min. in both of floor slabs, 3 inches in footings, except bottom steel which shall be 4 inches, and 2 inches in all other parts unless noted.  
 Concrete in footings and pier stems below construction joint to be Class "E". Concrete in superstructure, including railing, bent caps and pier stems above construction joints to be Class "F".  
 Concrete in structure not noted above in steel-encased concrete piles and concrete slopewall to be Class "D".  
 Continuous concrete pours shall be required between construction joints as shown on detail plans.  
 Bevel forms 1/4 inch under copings and chamfer exposed edges 1 inch unless otherwise noted.  
 Construct slopewall at locations as shown on plans in accordance with the Special Provisions.  
 Tolerance in position of steel-encased concrete pile head maximum 2 inches.  
 All railings constructed perpendicular to grade.  
 Three 1 inch expansion joints with load transfer to be placed in the pavement as shown on Bridge std. M3.  
 See special provisions for items included in this contract.

**JOINT LEGEND**  
 Joint "D" indicates 1/2" Preformed Joint Filler placed under front of girder bearing areas.  
 Joint "F" indicates vertical 1/2" Preformed Joint Filler extending from approximately 1/2" below the surface of the roadway and curb surfaces to bottom of slab east and horizontal single layer of medium weight roofing felt covering the slab east. Joint sealing compound (hot poured joint sealer or cold applied mastic type filler) to be placed in the top 1/2" portion.

**DESIGN DATA**  
 Designed for H20-516-44 loading in accordance with 1961 A.A.S.H.O. Specifications.

**TYPICAL CROSS SECTION**  
 Line "S-2-ZZ" - See Sheet N#3  
 Line "Z-Z" - See Sheet N#2

STANDARD DRAWINGS	
BRIDGE	ROAD
C1 1" Exp. Jt. Notch in end of Slab, Splicing steel pile shells in field. Reinforcing bar notes & details.	A 1" Exp. Joint with Load Transfer
M1 Punt. Offsets, Guide Posts, Pri. Drives	MC Type G Casting
M3 R.C. Bridge Approach	MD Type D Inlet
M5 Slopewall Details	ME Headwalls, Std. Lip Gutter, Paved Side Ditch
R1A Aluminum Railing Type 3	MN Backfill for Structures
R1B Steel Railing Type B	MP Pipes
S2 Drainage For Gr. B Spec. Barrow	MPI Pipes
	GR1 Beam Guard Rail
	S Type N/2 Inlet
	S1 Center Ditch Inlet
	Sheet 1 - Detour Signs
	Sheet 2 - Detour Signs
	Sheet 4 - Construction Ident. Signs



**GENERAL PLAN**  
 RC GIRDER & CONTINUOUS COMPOSITE STEEL BEAM BRIDGE  
 4 SPANS: 33'-0", 76'-0", 36'-3", & 57'-6" SKEW 2:10:15" RT.  
 28'-0" ROADWAY 2'-2'-0" WALKS

SHERMAN DRIVE OVER I-465  
 STATE HIGHWAY DEPARTMENT OF INDIANA  
 MARION COUNTY

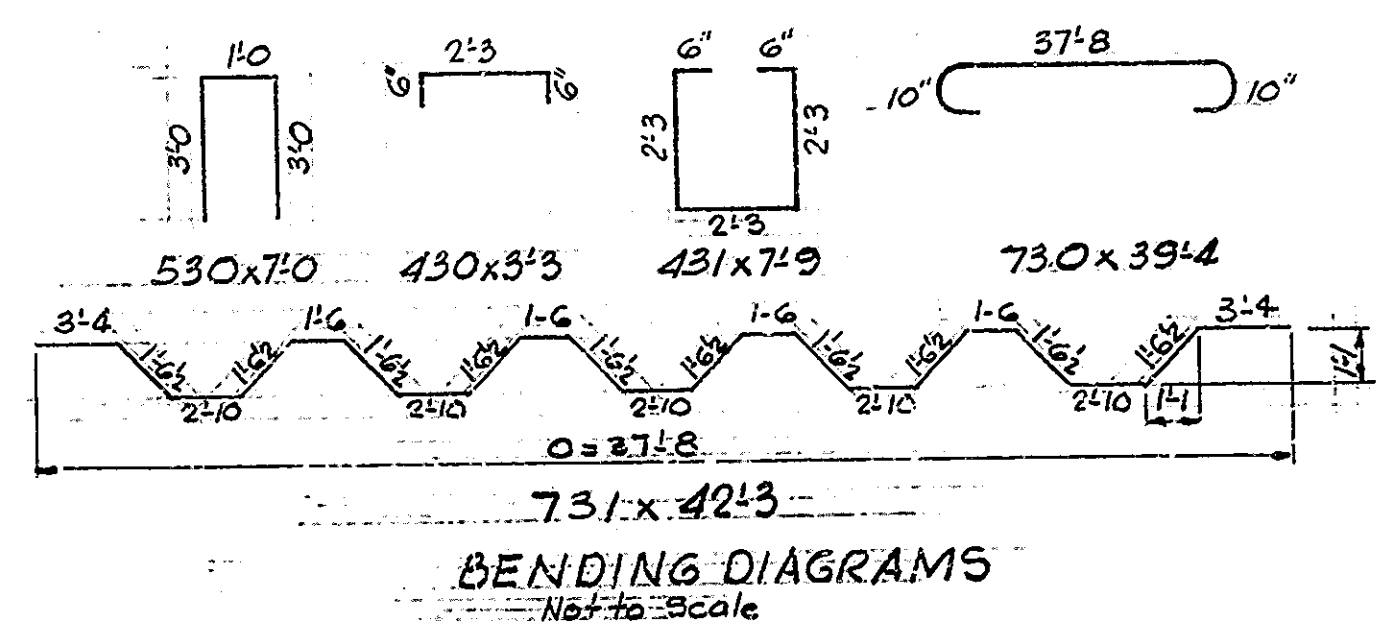
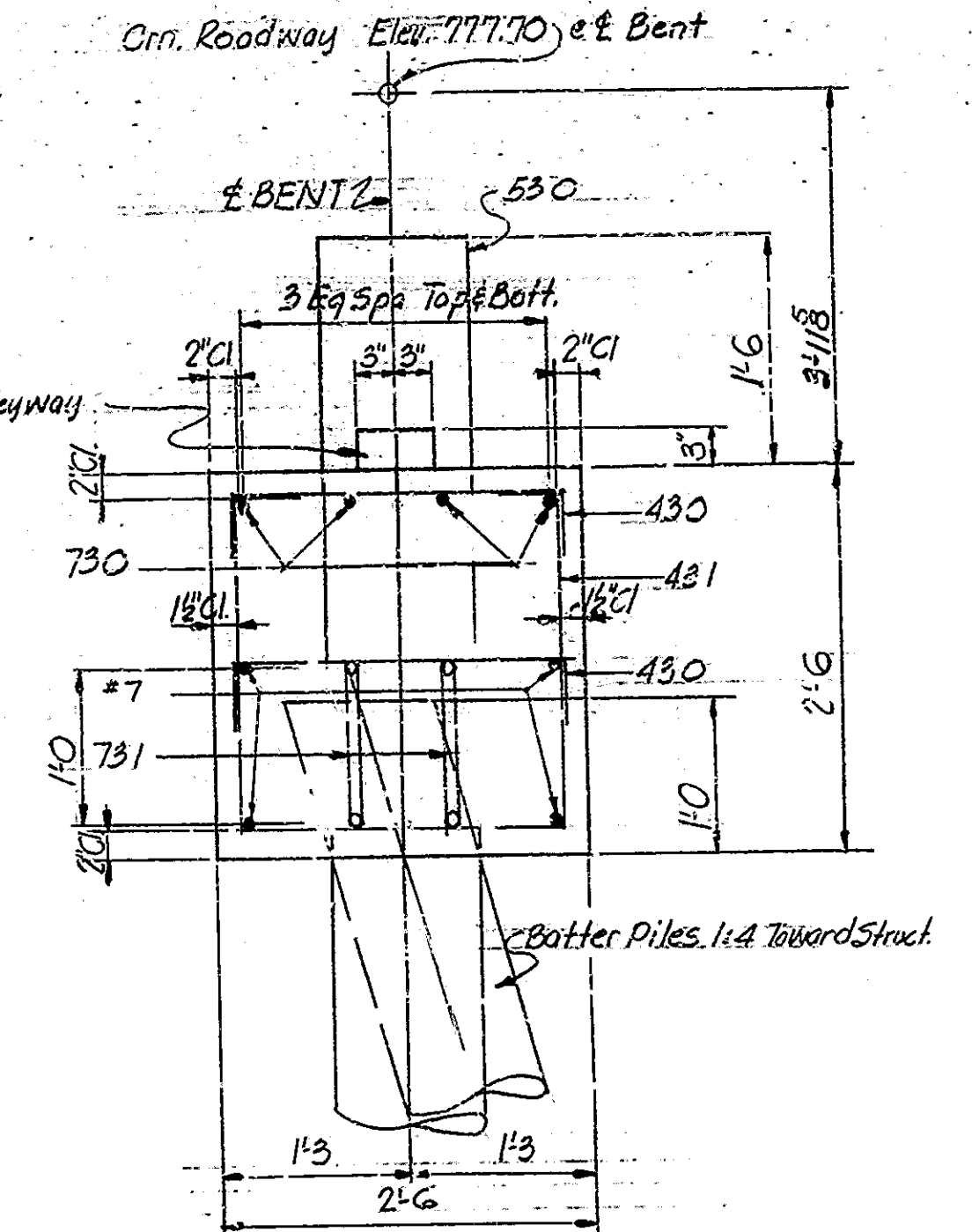
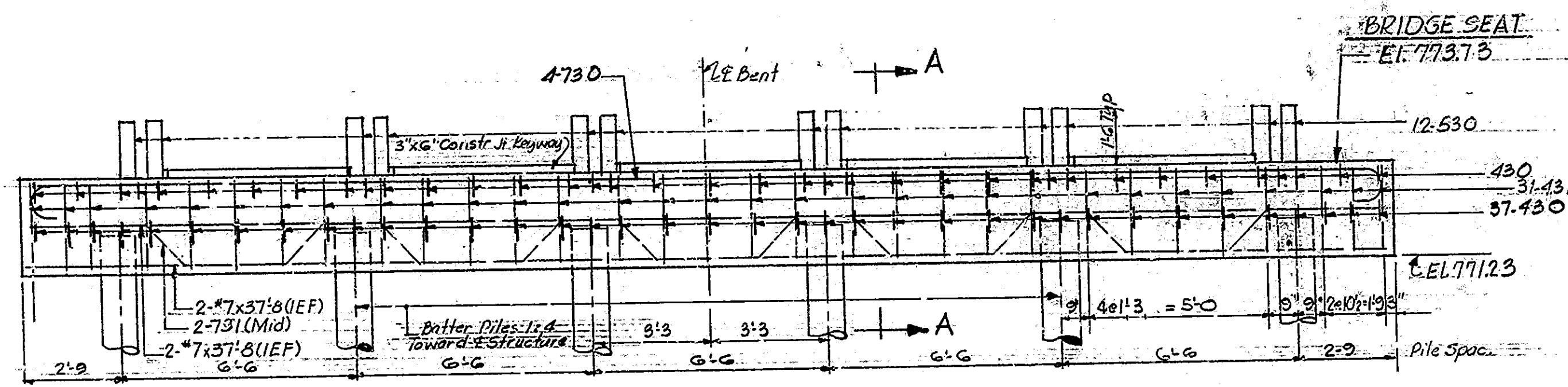
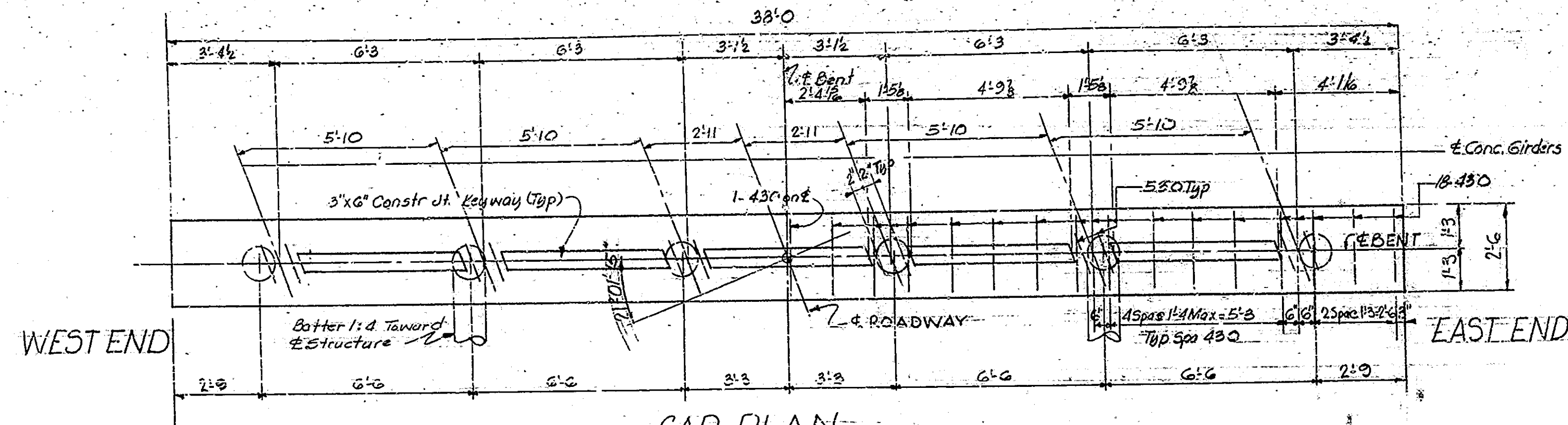
SCALE: 1/16" = 1'-0" Unless Noted  
 November 14, 1962

DRAWING: 32 OF 20  
 PROJECT: I-465-4 (98)108  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE: I-465-108-4403

DESIGNED: W.E.W.	CHKD.
DRAWN: G.D.	CHKD.
TRACED:	CHKD.

BRIDGES OVER 20' SPAN

STATE	PROJECT	FISCAL	BRIDGE	TOTAL
NO.	NO.	YEAR	NO.	SHEETS
IND.	I-465-4 (208108)	1962	27	84



BILL OF MATERIALS  
BENT NO. 1

MARK OR SIZE	No of Bars	Length	Weight lbs
#3	4	39'-4"	
#3	2	42'-3"	
#7	4	37'-8"	
Total	#7		802
#3	12	7'-0"	88
#3	74	3'-3"	
#3	31	7'-9"	
Total	#3		321
Total	Steel		1211

CONCRETE

Class F Cap	5.9 CY
-------------	--------

MISCELLANEOUS

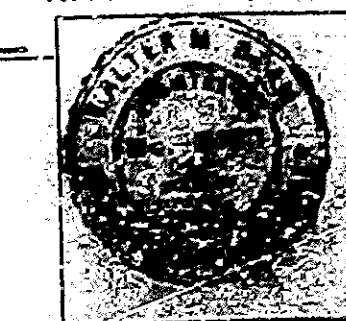
6-12" x 70" Steel	211 lbs
Shells @ 30'	

NOTES:  
See Br. Std. CI for reinforcing bar notes.  
Cap not to be poured until after fill has been completed up to approximately the elevation of bottom of cap.  
6-12" x 70" Steel Pile Shells required at bent.  
Minimum bearing 34 Tons per pile

BENT NO. 1 DETAILS  
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: - 3/8" = 1'-0" Unless Noted  
November 14, 1962  
*Walter M. Bean*

DRAWING: 53 OF 20  
PROJECT: I-465-4 (208108)  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4203



DESIGNED: B.G.H. CKD: J.R.P.  
DRAWN: B.G.H. CKD: J.R.P.  
TRACED: CKD:

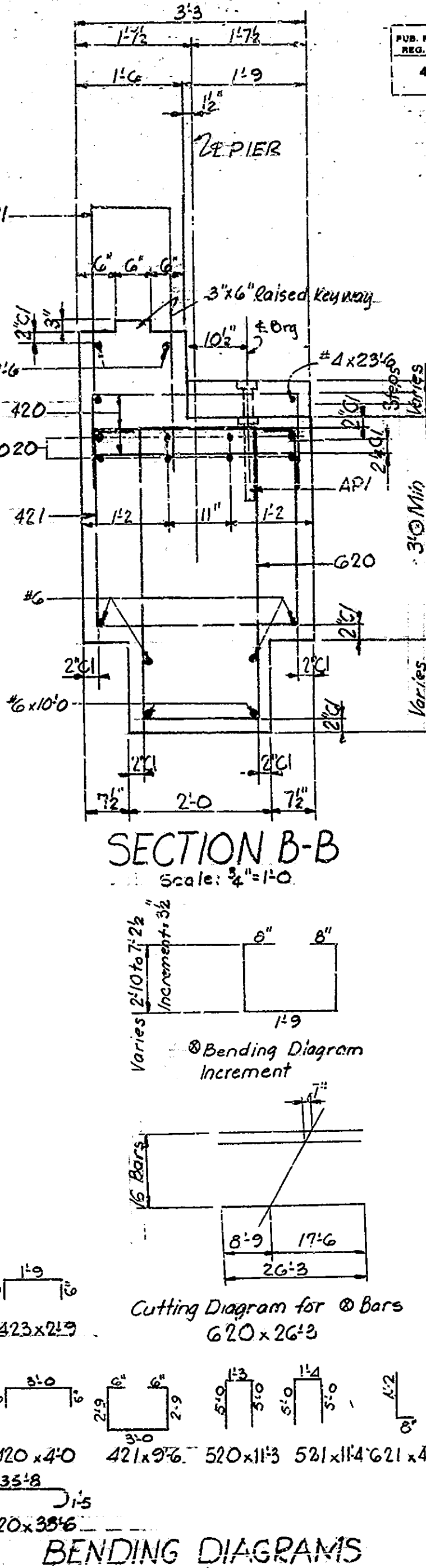
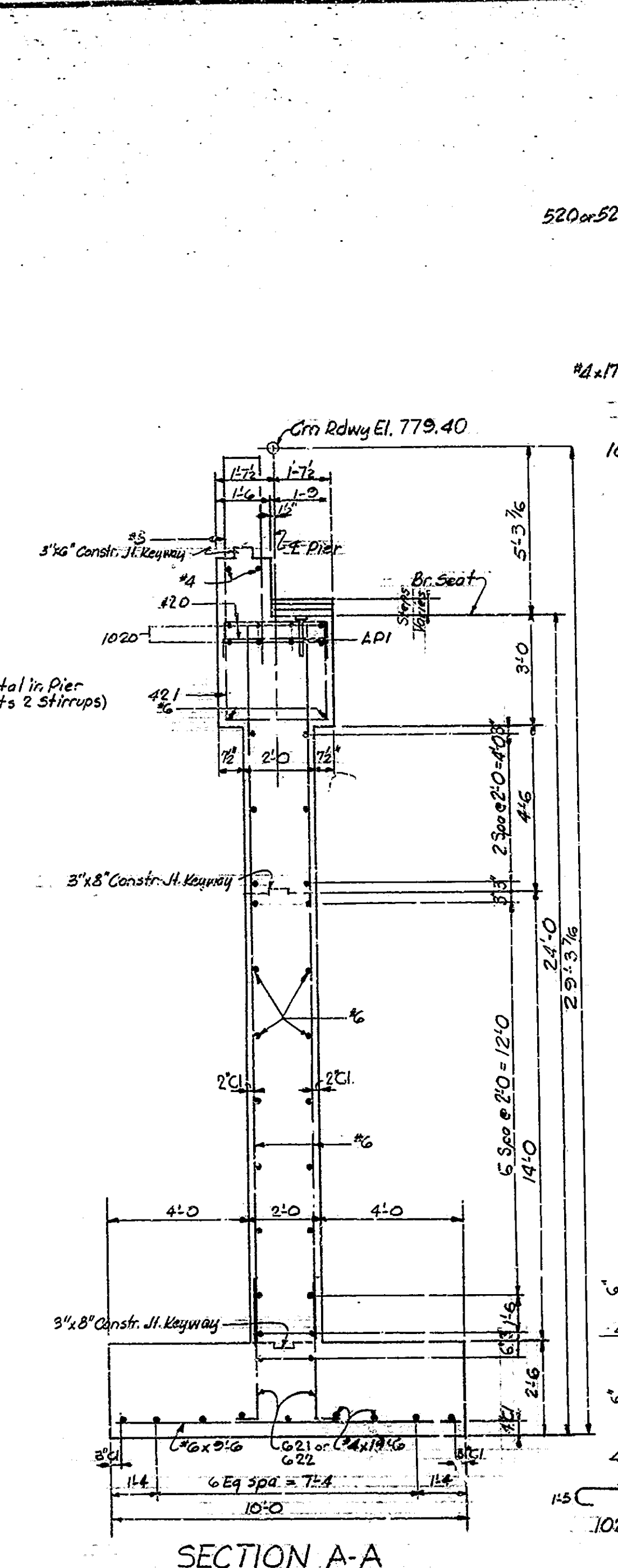
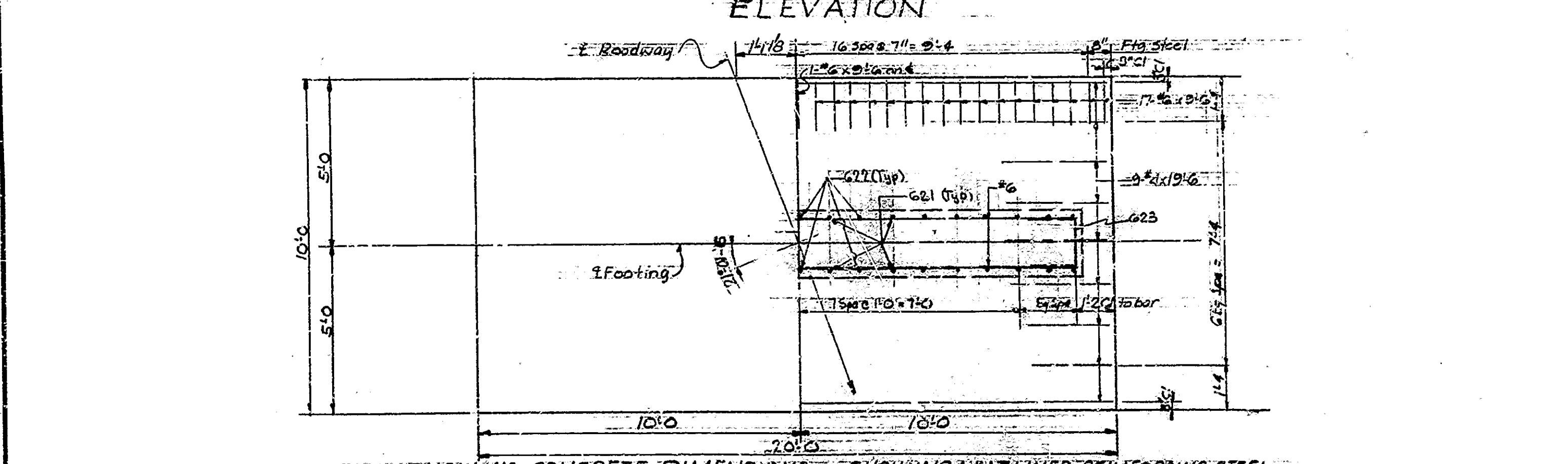
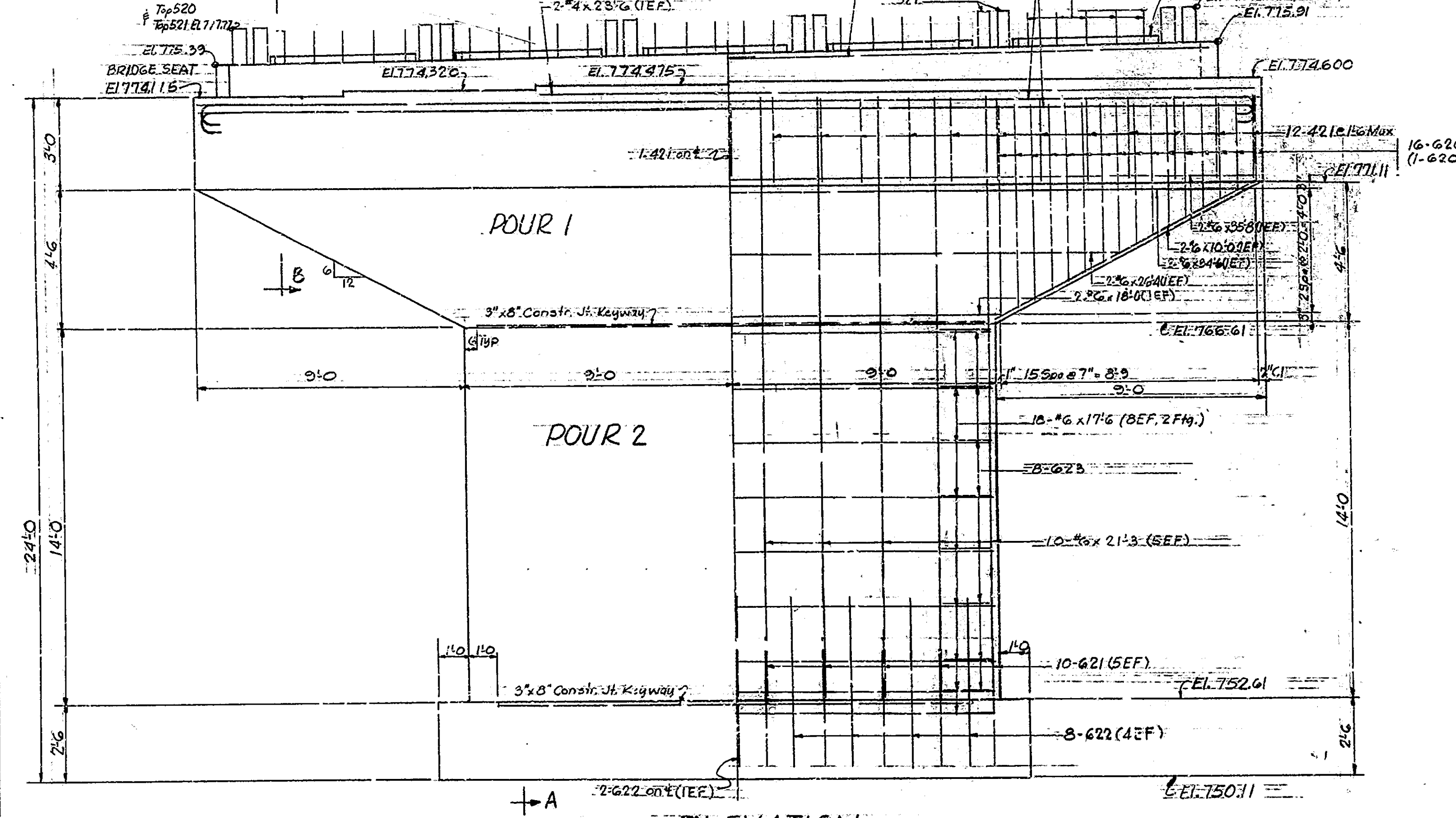
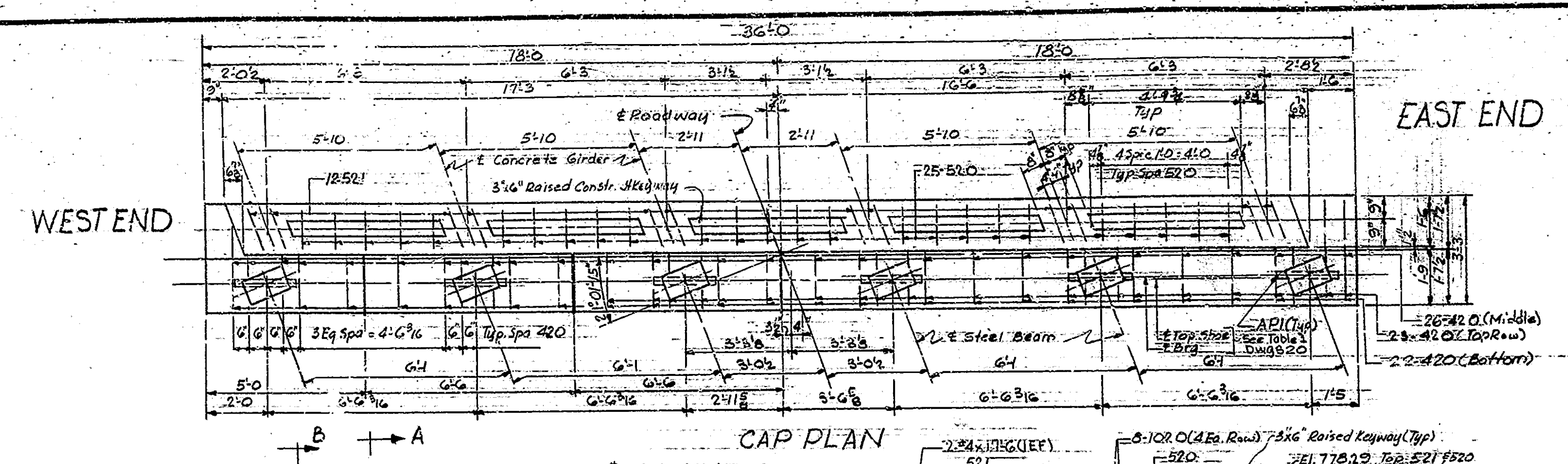
BRIDGES OVER 20' SPAN					
PUR. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (38) 108	1963	28	84

### BILL OF MATERIALS PIER N<sup>o</sup> 2

MARK or SIZE	N <sup>o</sup> of BARS	LENGTH	WEIGHT lbs
1020	8	28'-0"	1325
620	16	26'-3"	
621	20	4'-10"	
622	18	6'-0"	
623	16	5'-7"	
#6	2	35'-8"	
#6	2	3'-6"	
#6	20	21'-3"	
#6	2	18'-0"	
#6	18	17'-6"	
#6	4	10'-0"	
#6	35	9'-6"	
	Total	#6	3087
520	25	11'-9"	
521	12	11'-4"	
	Total	#5	435
420	71	4'-0"	
421	25	9'-6"	
#4	2	23'-6"	
#4	9	19'-6"	
#4	4	17'-6"	
	Total	#4	644
	Total	STEEL	6521

**CONCRETE**  
 Class "F" Pour 1 - 25.7 CY  
 Class "E" Abut. Pour 2 - 78.7 CY  
 Class "F" in Fly - 18.5 CY

**MISCELLANEOUS**  
 Anchor Plates, API - 6 Each

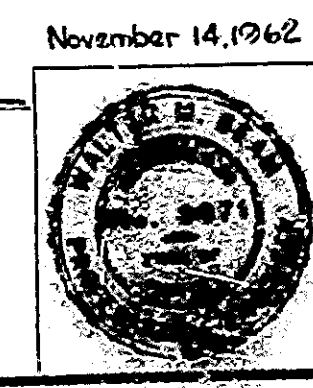


See Br Sid. Cl for reinforcing bar notes.  
 Max. soil pressure 2.5 Ton / sq. ft.  
 G Anchor plates, API, required. See DWG 56 for details

### PIER N<sup>o</sup> 2 DETAILS STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: - 3/8" = 1'-0" Unless Noted

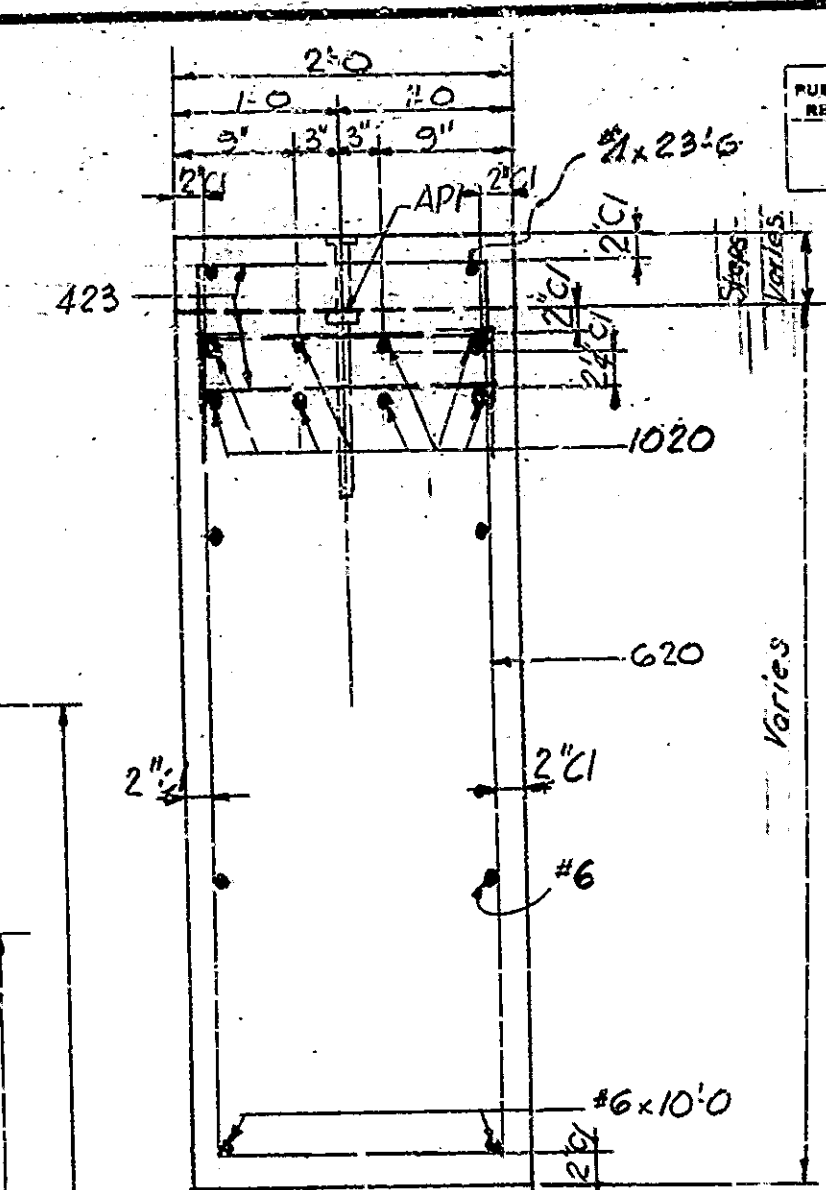
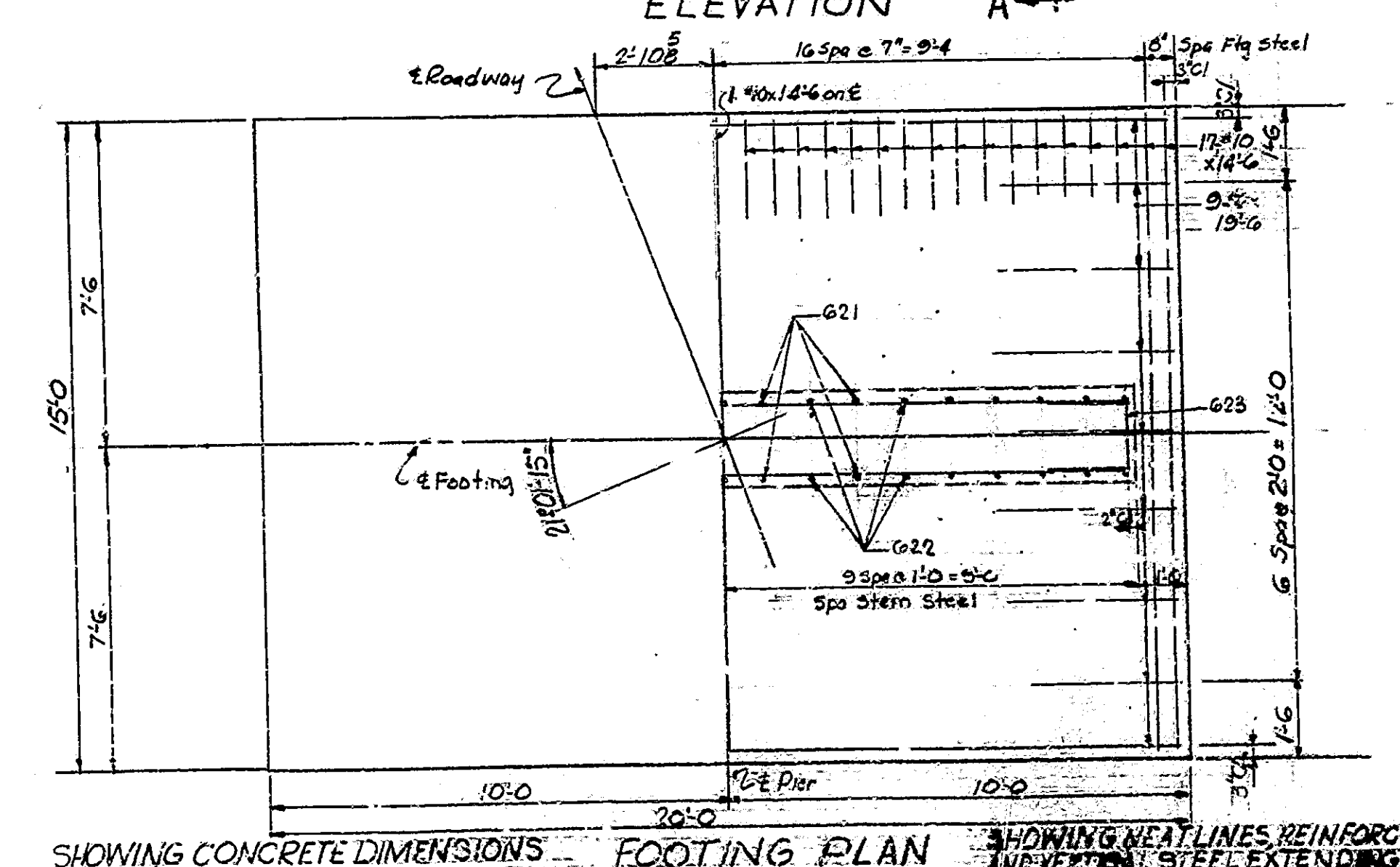
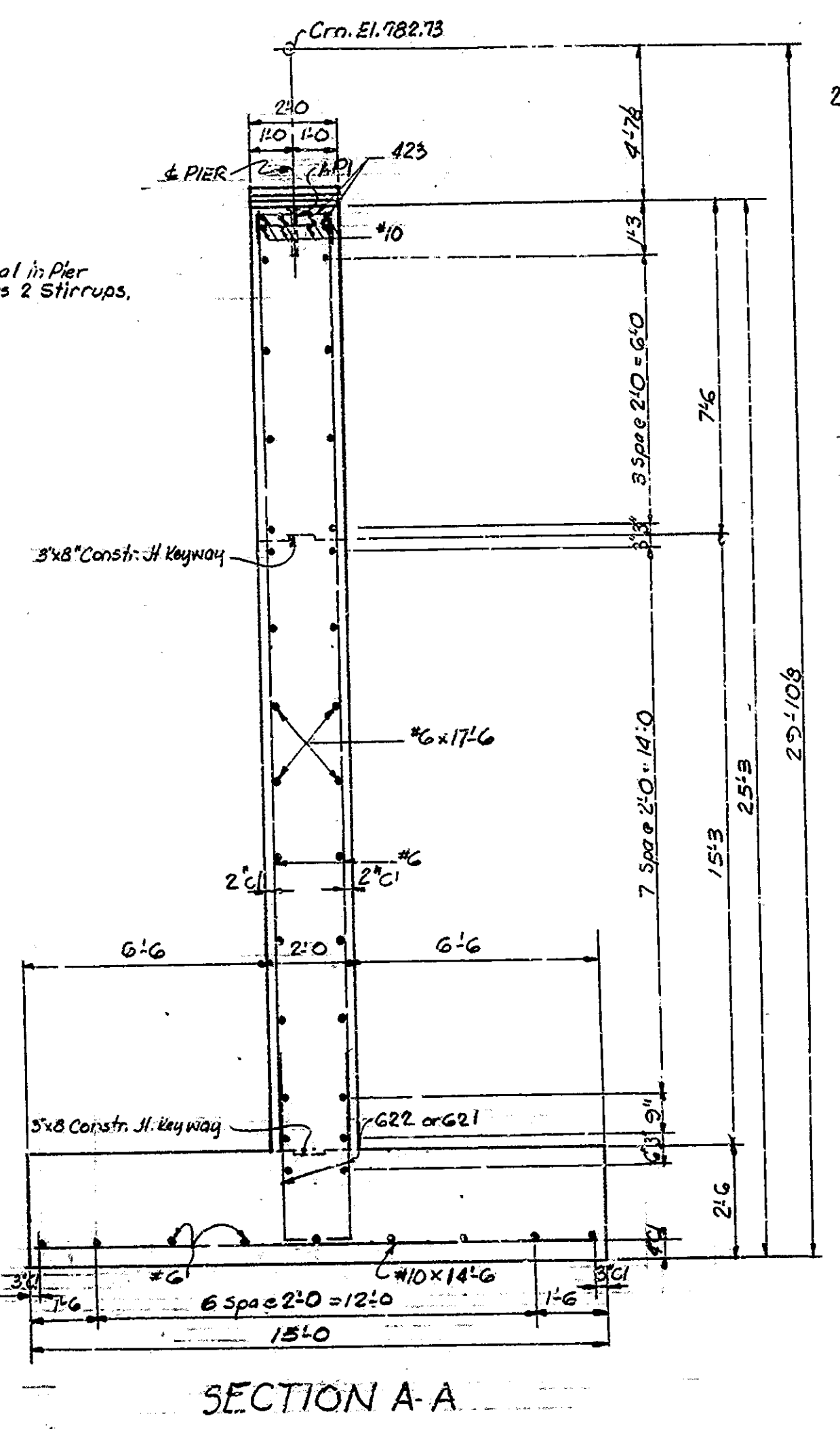
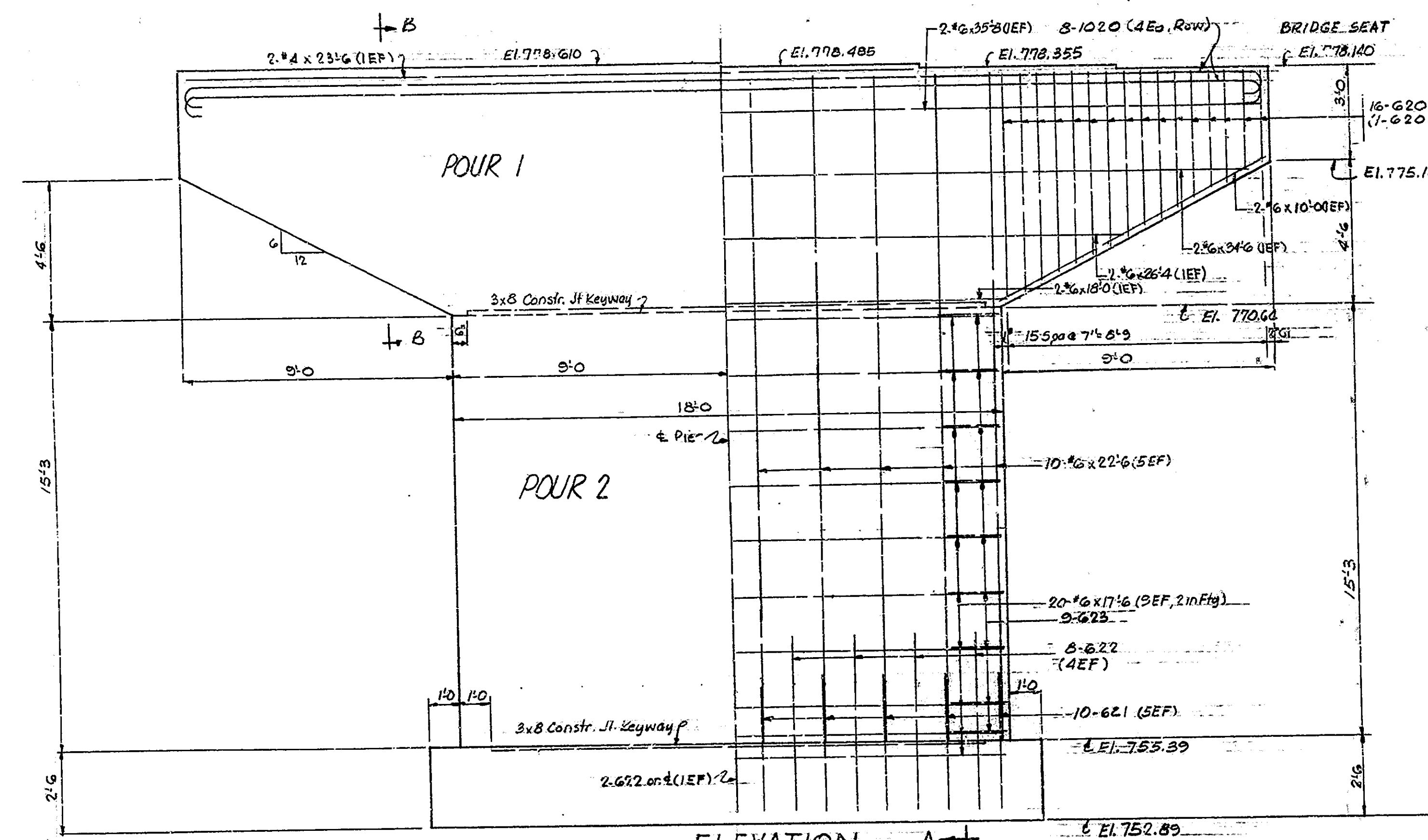
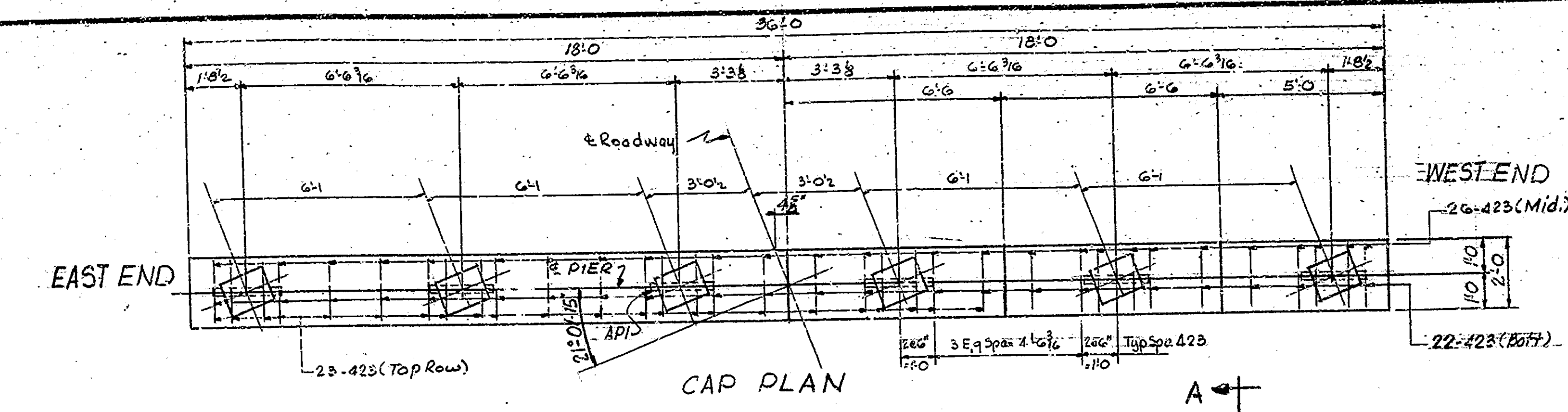
DRAWING - 54 OF 20  
 PROJECT - I-465-4 (38) 108  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE - I-465-108-4403



DESIGNED: P.B.M. C.K.D. R.A.S.  
 DRAWN: R.B.M. C.K.D. R.A.S.  
 TRACED: C.K.D.



BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-A (108) 108	1963	29	84



**BILL OF MATERIAL  
PIER N°3**

MARK or SIZE	N° of BARS	LENGTH	WEIGHT
1020	8	38'-6"	
#10	35	14'-6"	
Total	#10		3509
#23	18	5'-7"	
#20	16	26'-3"	
#21	20	4'-10"	
#22	18	6'-0"	
#6	2	35'-8"	
#6	2	34'-6"	
#6	2	26'-4"	
#6	20	22'-6"	
#6	3	19'-6"	
#6	2	18'-0"	
#6	20	17'-6"	
#6	4	10'-0"	
Total	#6		2958
423	71	2'-9"	
#4	2	25'-6"	
Total	#4		162
Total	Steel		6669

**CONCRETE**

Class F Cap	17.90 CY
Class F Abu. Fly	80.50 CY
Class E Fly	37.00 CY

**MISCELLANEOUS**

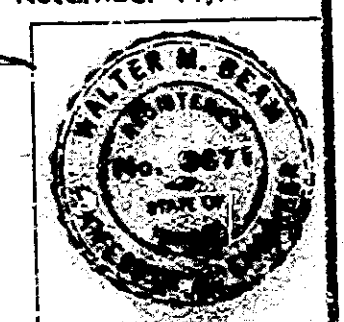
Anchor Plates API	6 Each
-------------------	--------

See Br. Std. C for reinforcing bar notes  
 Max. Soil pressure, 2.5 Ton/sq. ft.  
 G Anchor Plates, A-EP Required. See Dwg 56 for details of A-EP.  
 See Dwg S4 for Bar bending diagrams

**PIER N°3 DETAILS  
STATE HIGHWAY DEPARTMENT OF INDIANA**

SCALE: - 3/4"=1'-0" Unless Noted  
 November 14, 1962

DRAWING: 35 OF 20  
 PROJECT: I-465-A (108) 108  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE: I-465-108-4403



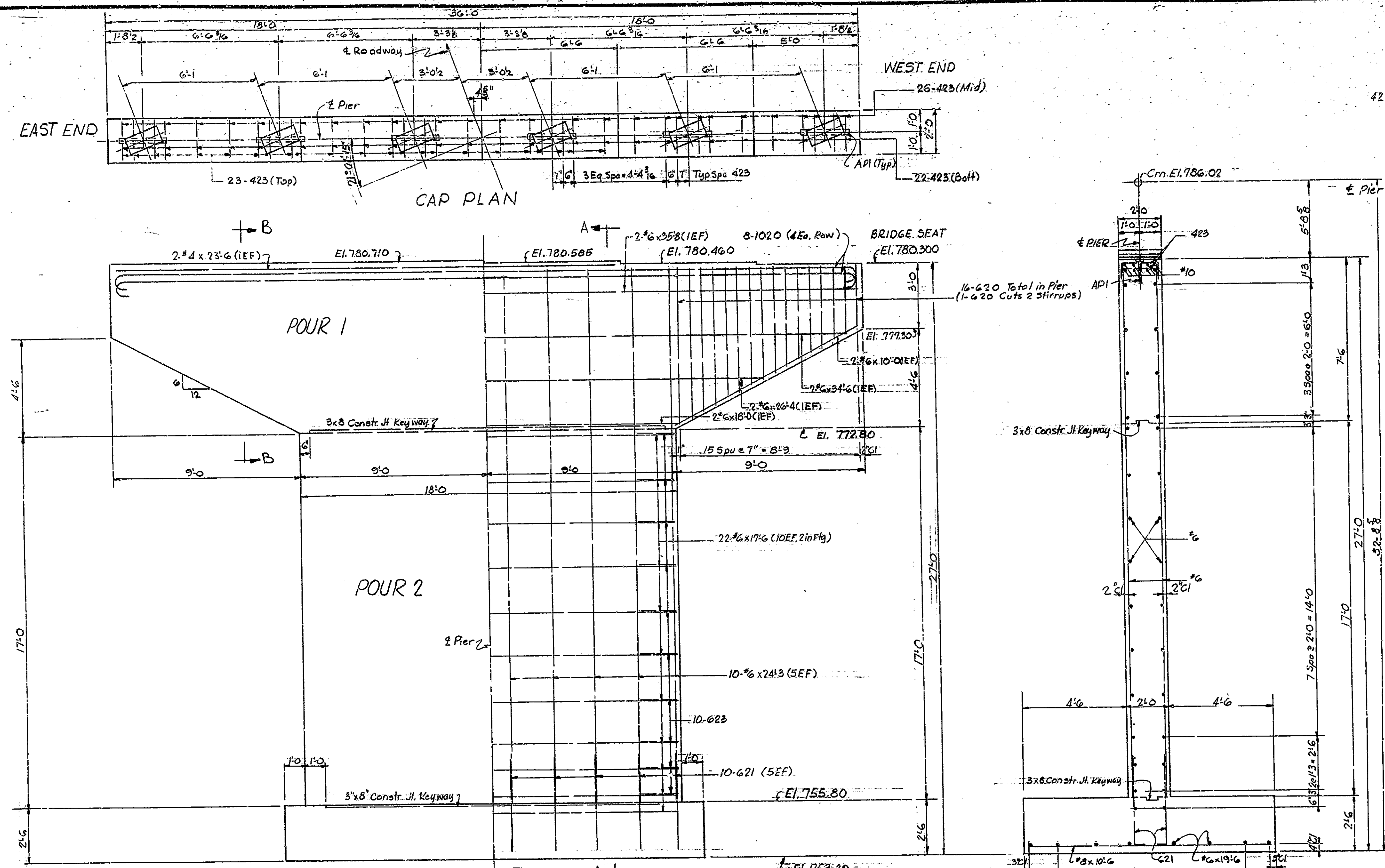
DESIGNED: RTH CKD: RAG  
 DRAWN: RTH CKD: RAG  
 TRACED: CKD

SHOWING CONCRETE DIMENSIONS FOOTING PLAN  
 SHOWING REINFORCING STEEL  
 SHOWING NEAT LINES REINFORCING STEEL  
 INVERTED STEEL EXTENDING INTO FOOTING

BRIDGES OVER 20' SPAN				
PUR. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	E-465-4 (80) 108	1963	30

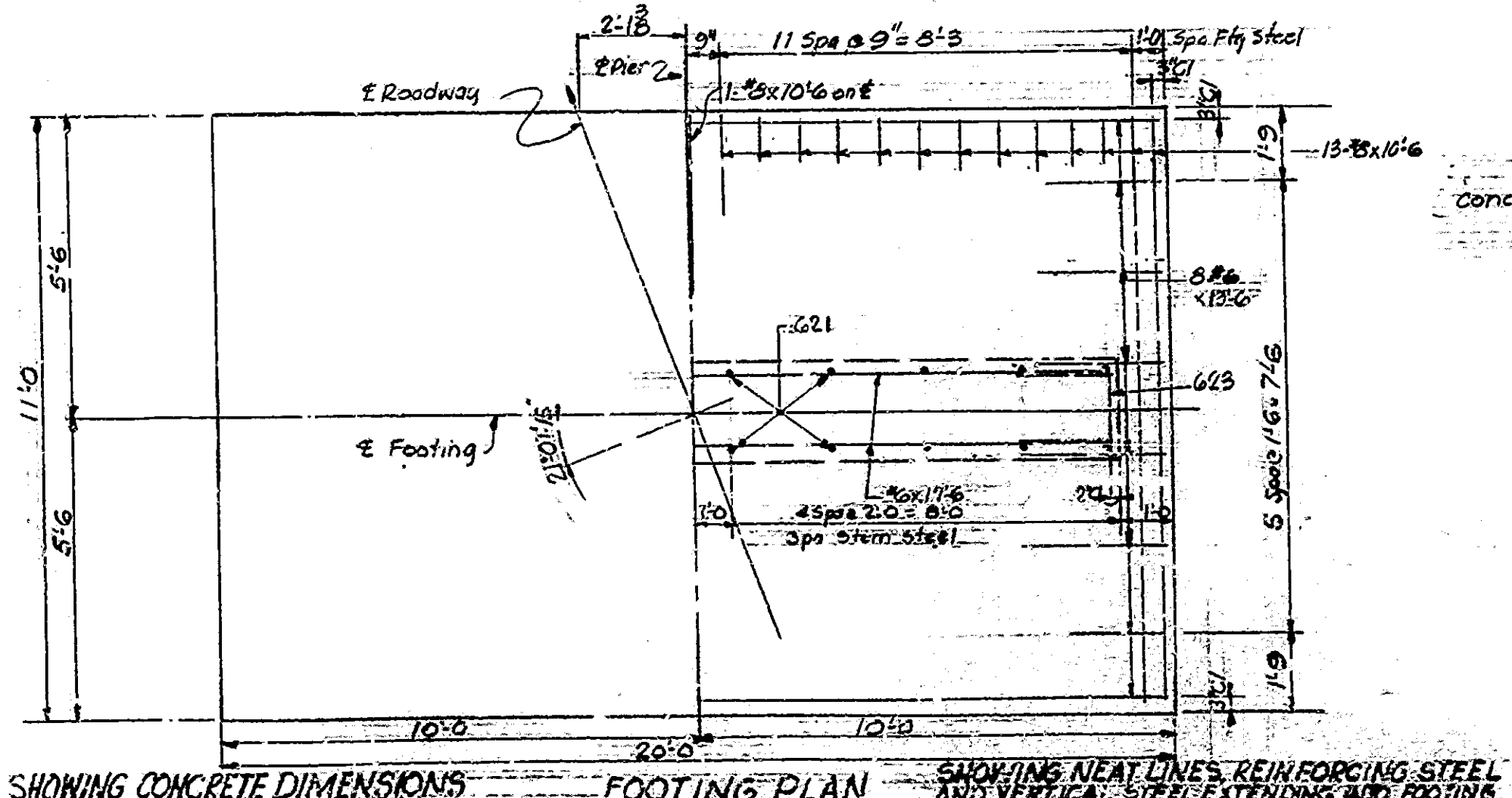
### BILL OF MATERIALS PIER N<sup>o</sup> 4

MARK or SIZE	N <sup>o</sup> of BARS	LENGTH	WEIGHT
1020	8	38'6"	1325
#8	27	10'6"	757
#6	16	26'3"	
#6	20	4'10"	
#6	20	5'7"	
#6	2	35'3"	
#6	2	34'6"	
#6	2	26'4"	
#6	20	24'3"	
#6	8	19'6"	
#6	2	18'0"	
#6	22	17'6"	
#6	4	10'0"	
Total #6			2889
423	71	2'9"	
#4	2	23'6"	
Total #4			162
Total Steel			5183
CONCRETE			
Class F Cap- Pour 1 = 17.8 CY			
Class E Abut. - Pour 2 = 72.7 CY			
Class E Fly = 20.9 CY			
MISCELLANEOUS			
Anchor Plates API G Each			

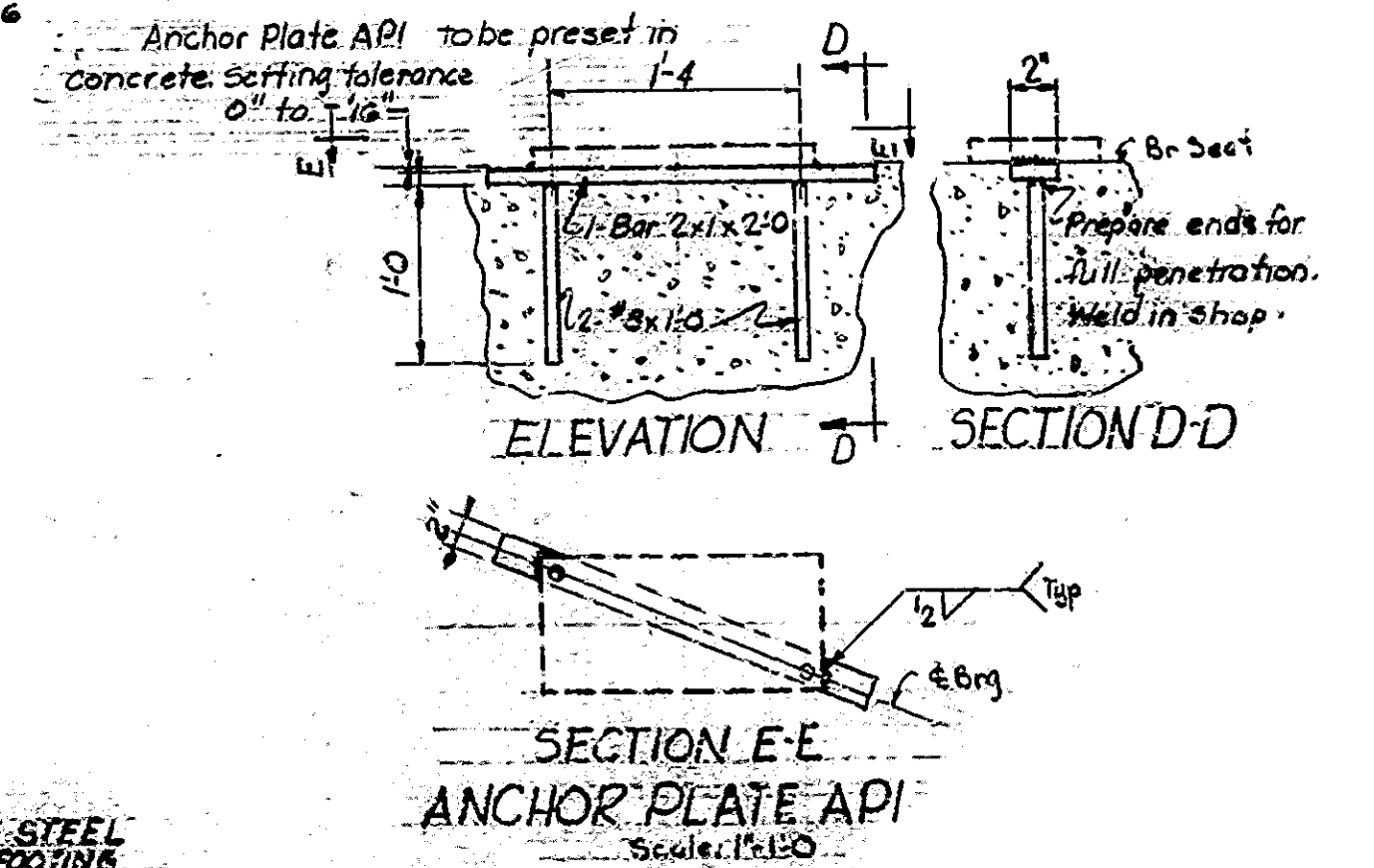


SECTION B-B  
Scale: 1/4"=1'-0"

SECTION A-A



FOOTING PLAN  
SHOWING NEAT LINES REINFORCING STEEL AND VERTICAL STEEL EXTENDING INTO FOOTING



SECTION E-E  
ANCHOR PLATE API  
Scale: 1/8"=1'-0"

See Br. Std. G for reinforcing bar notes  
Max. Soil pressure 2.5 Ton/sq Ft.  
Anchor Plates API Required  
See Dwg. S-4 for bar bending diagram & stirrup bars.

### PIER N<sup>o</sup> 4 DETAILS STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 3/8"=1'-0"

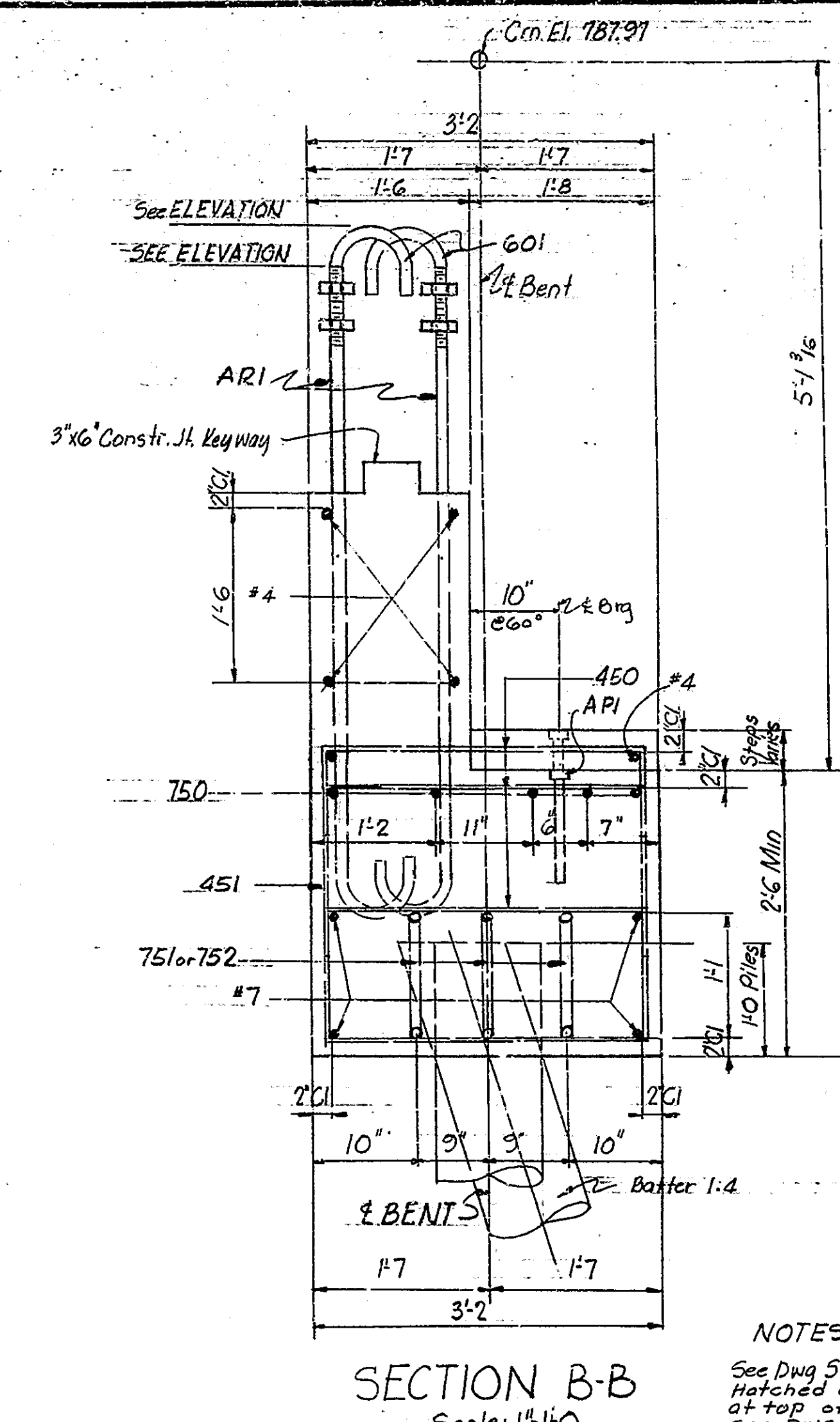
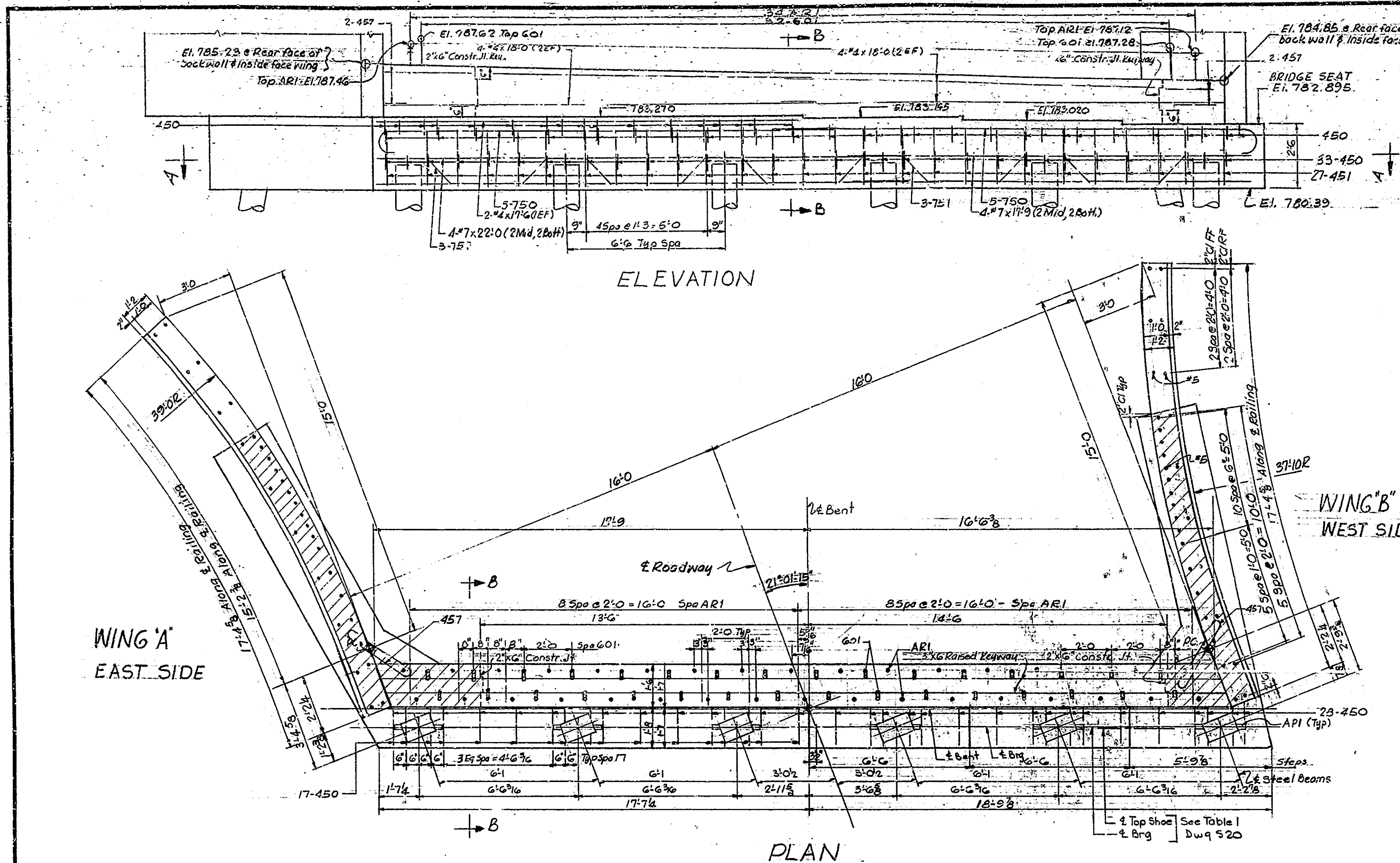
November 14, 1962

*Walter J. Bean*

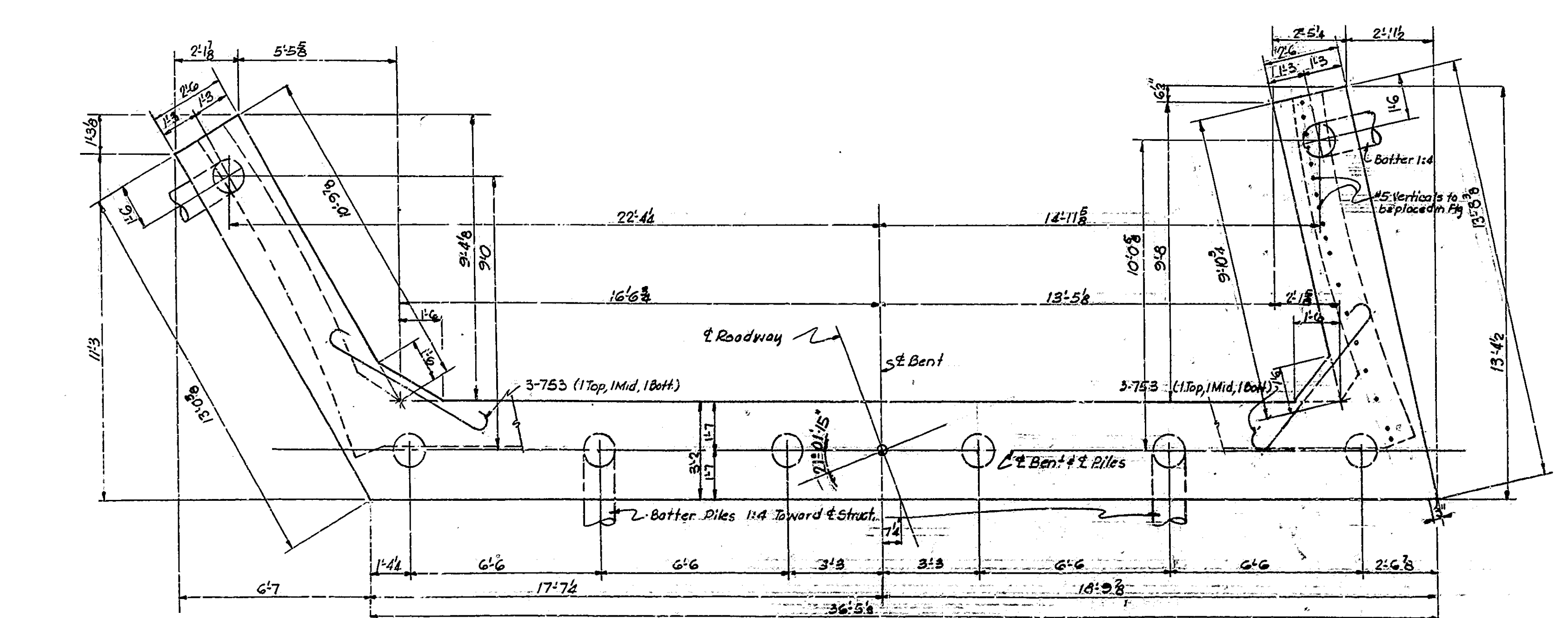


DRAWING: S-6 OF 20  
PROJECT: I-465-4 (80) 108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-103-4403

DESIGNED: RCH CKD: RCH  
DRAWN: RCH CKD: RCH  
TRACED: CKD



BRIDGES OVER 20' SPAN					
PUR. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (99) 108	1963	31	84



NOTES:  
 See Dwg 51 for General Notes.  
 Hatched area indicates abutment Constr. Joint at top of cap.  
 See Dwg 58 for wing details, bending diagrams and Bill of Material.  
 See Br. 31d CI for reinforcing bar notes.  
 Concrete is not to be poured until fill has been placed to the approximate elevation of the bottom of cap.  
 Anchor Rods AR1 are to be pre-set in concrete.  
 3-1/2" x 7/8" steel pile shells are required.  
 Minimum bearing = 36 Tons/pile.  
 6 Anchor plates AP1 required. See Dwg 56 for details.

**BENT N°5 DETAILS**  
**STATE HIGHWAY DEPARTMENT OF INDIANA**

SCALE: 3/8"=1'-0" Unless Noted  
 November 14, 1962  
*Walter J. Barr*

DRAWING: 57 OF 20  
 PROJECT: I-465-4 (99) 108  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE: I-465-108-4403

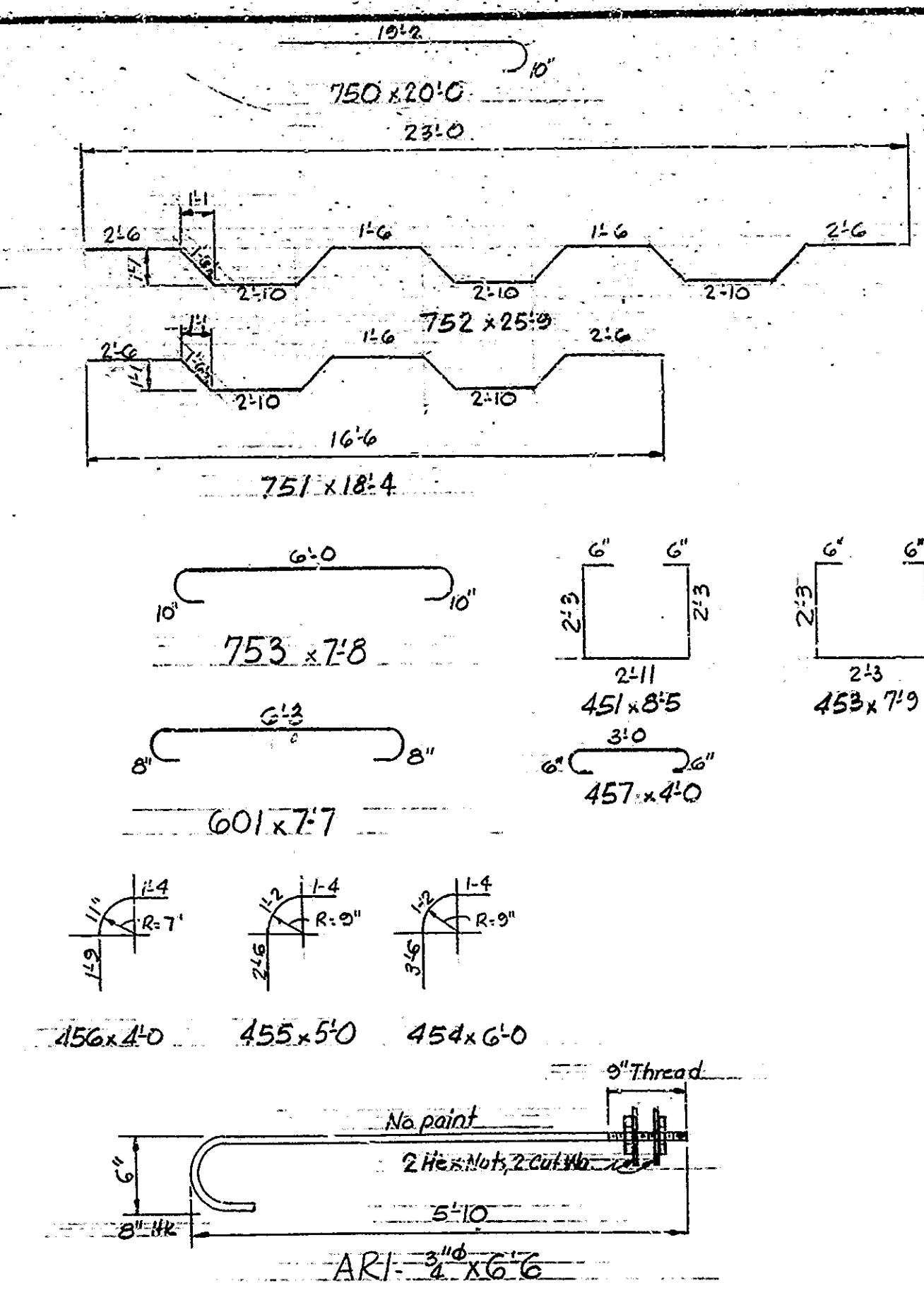
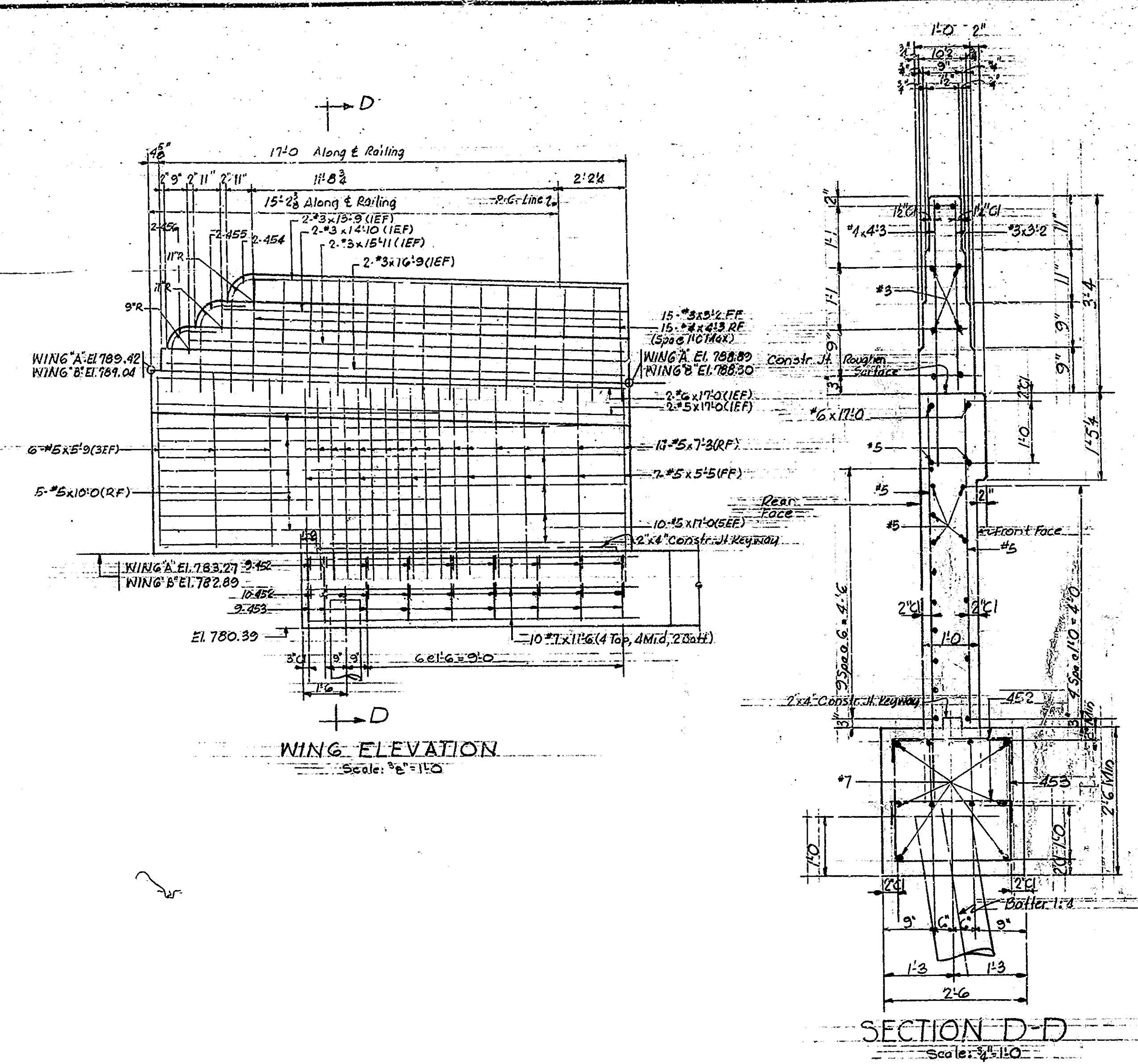


DESIGNED BY	CHKD BY
DRAWN BY	CHKD BY
TRACED BY	CHKD BY

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	I-465-4	1963	32	84

**BILL OF MATERIALS-BENT 5**

SIZE OR MARK	NO OF BARS	LENGTH	WEIGHT
750	10	20'0"	
751	3	18'4"	
752	3	25'9"	
753	6	7'8"	
#7	4	22'0"	
#7	4	17'9"	
#7	20	11'6"	
Total			1568
601	32	7'7"	
#6	4	17'0"	
Total			467
#5	24	17'0"	
#5	10	10'0"	
#5	34	7'8"	
#5	12	5'9"	
#5	14	5'5"	
Total			938
450	78	3'11"	
451	27	8'5"	
452	38	3'3"	
453	18	7'9"	
454	4	6'0"	
455	4	5'0"	
456	4	4'0"	
457	4	4'0"	
#4	8	18'0"	
#4	2	17'6"	
#4	30	4'3"	
Total			767
#3	4	16'9"	
#3	4	15'11"	
#3	4	14'0"	
#3	4	13'9"	
#3	30	3'2"	
Total			128
<b>TOTAL STEEL 3888</b>			
<b>CONCRETE</b>			
C.I.F. - Wing A		4.5 CY	
Wing B		4.2 CY	
Footings (incl. 20.2 CY)			
Total C.I.F.		28.7 CY	
<b>Railing Concrete C.I.F. = 3.2 CY</b>			
<b>MISCELLANEOUS</b>			
1/2" x 7/8" Steel Pipe Posts		8 @ 20'	
34 Anchor Rods - ARI		34 @ 10'	
Anchor Plates API - 6 Each			



**BENDING DIAGRAM**  
No Scale

See Br. Std C1 for Reinforcing bar rates.  
See Dwg S7 for additional details.  
See Dwg S6 for Anchor Plates API details.

**BENT N°5 DETAILS**  
**STATE HIGHWAY DEPARTMENT OF INDIANA**

SCALE: - As Noted

Walter J. Baer

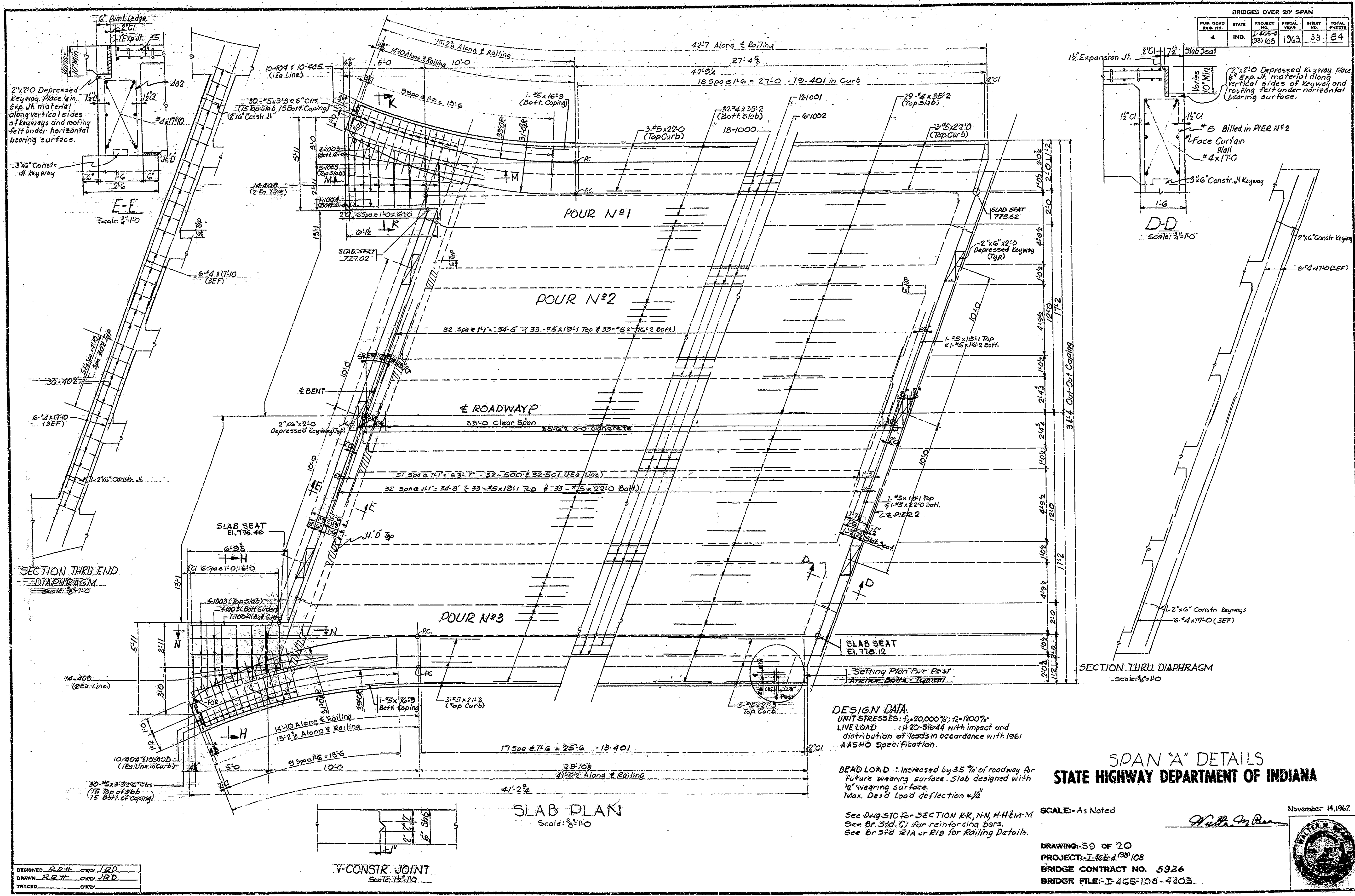
November 14, 1962

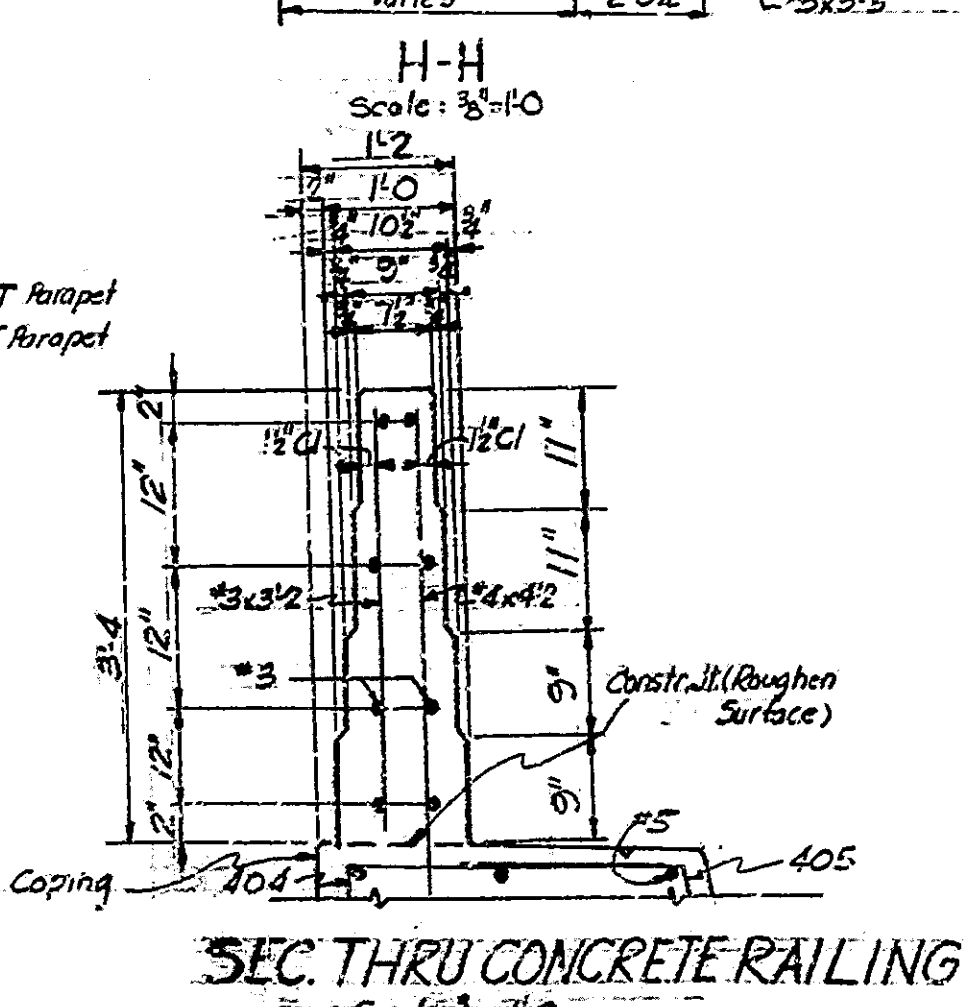
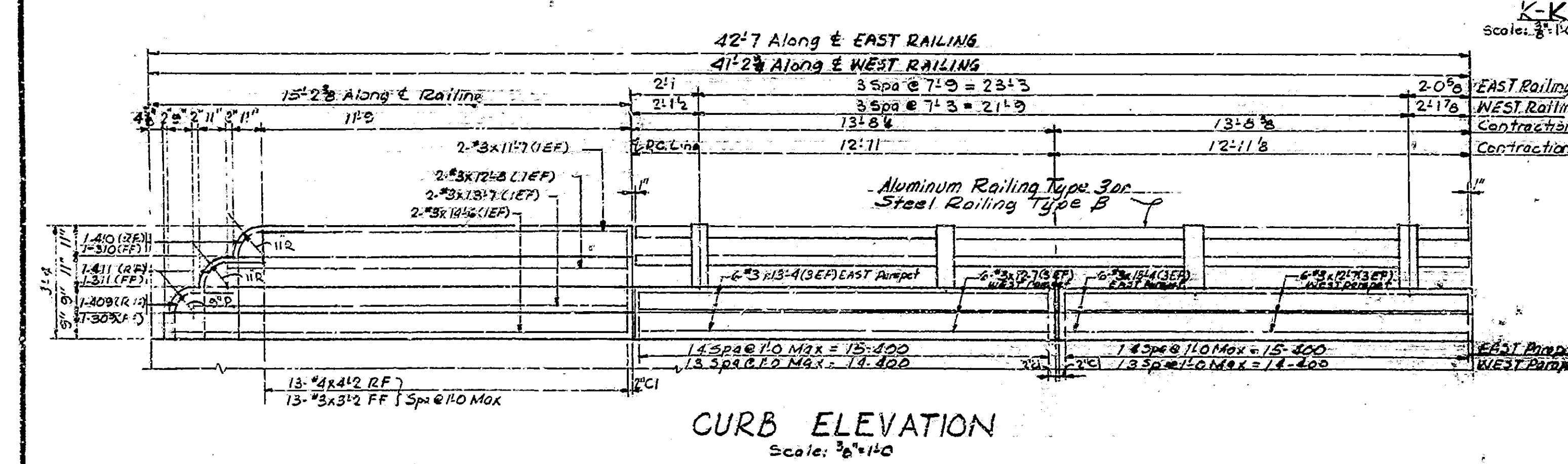
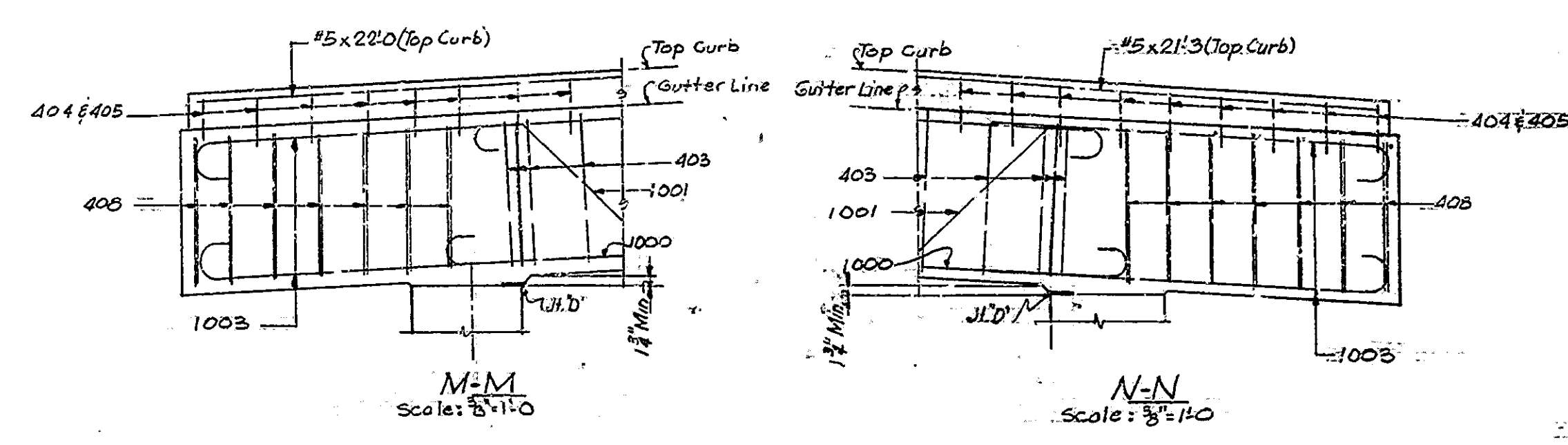
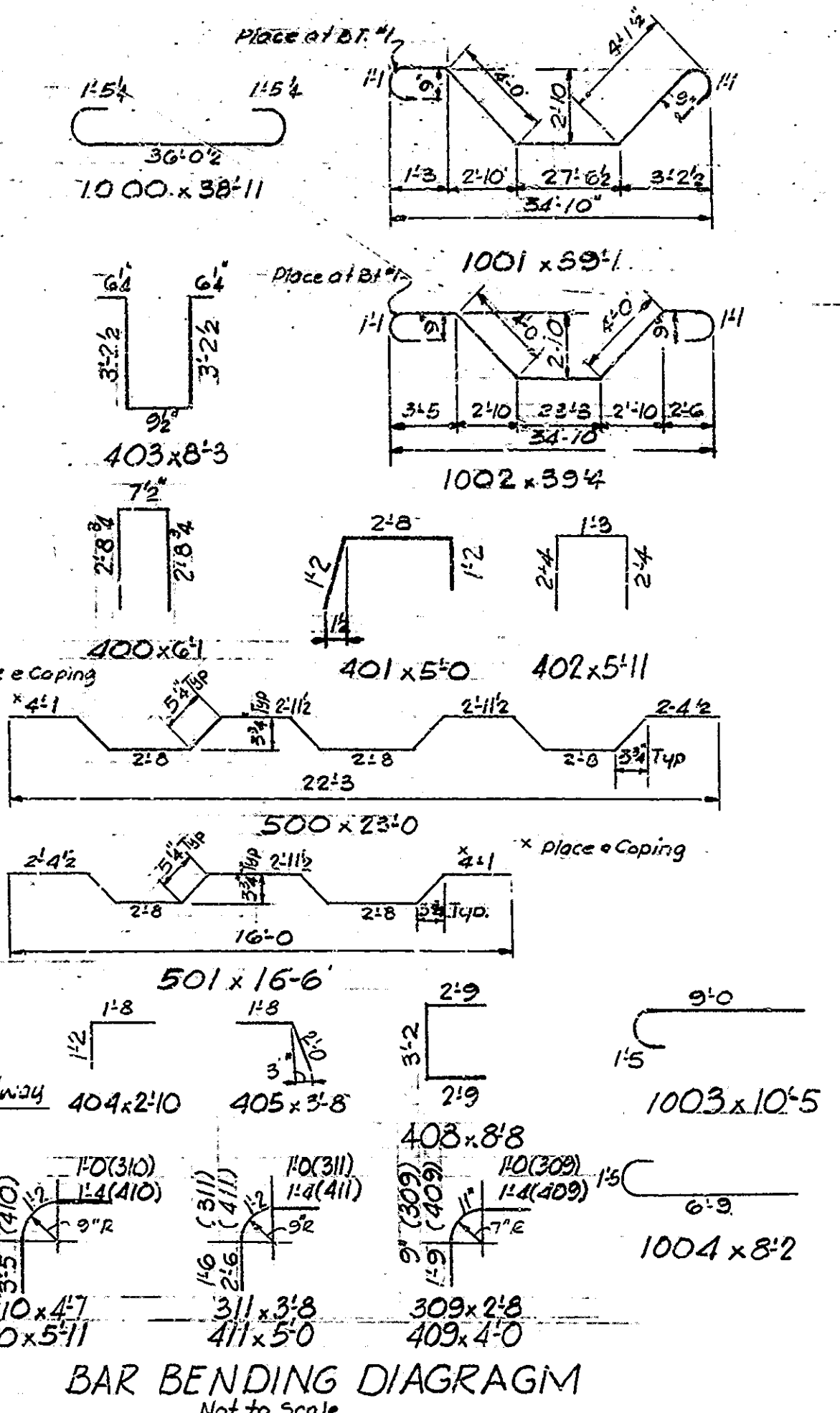
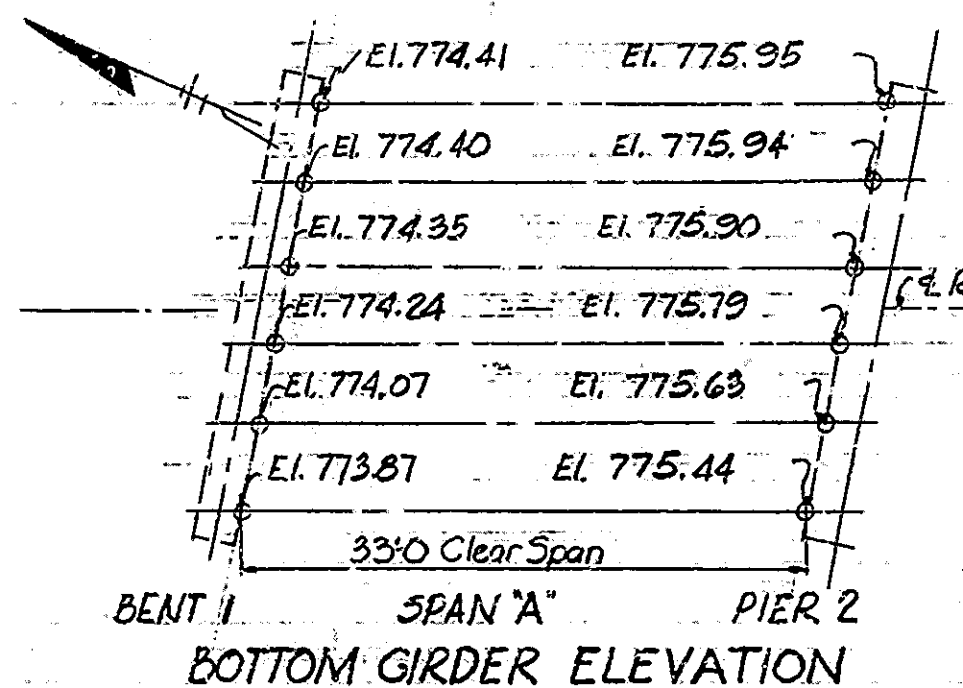
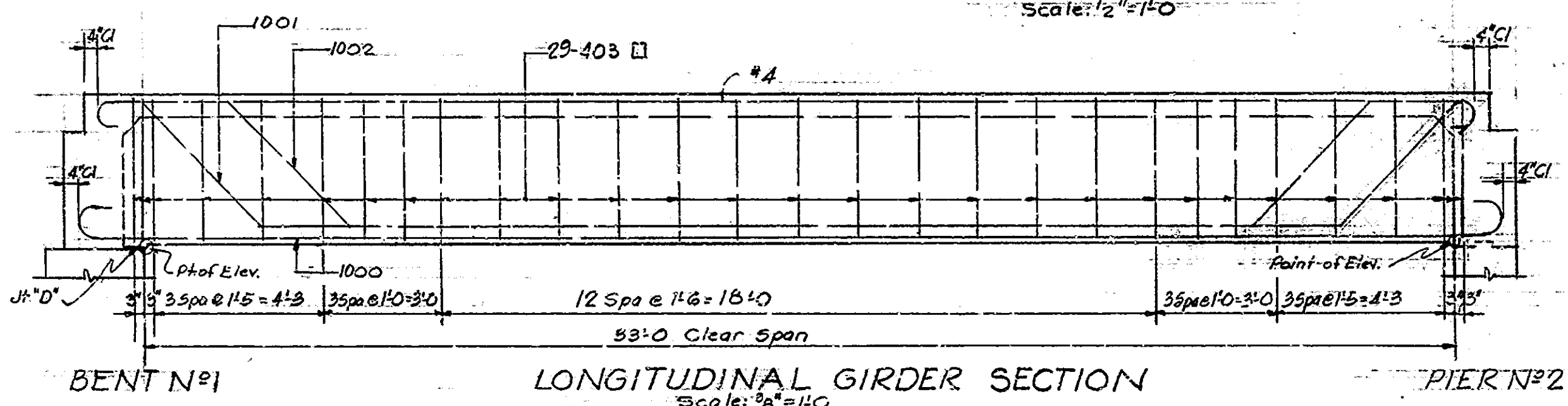
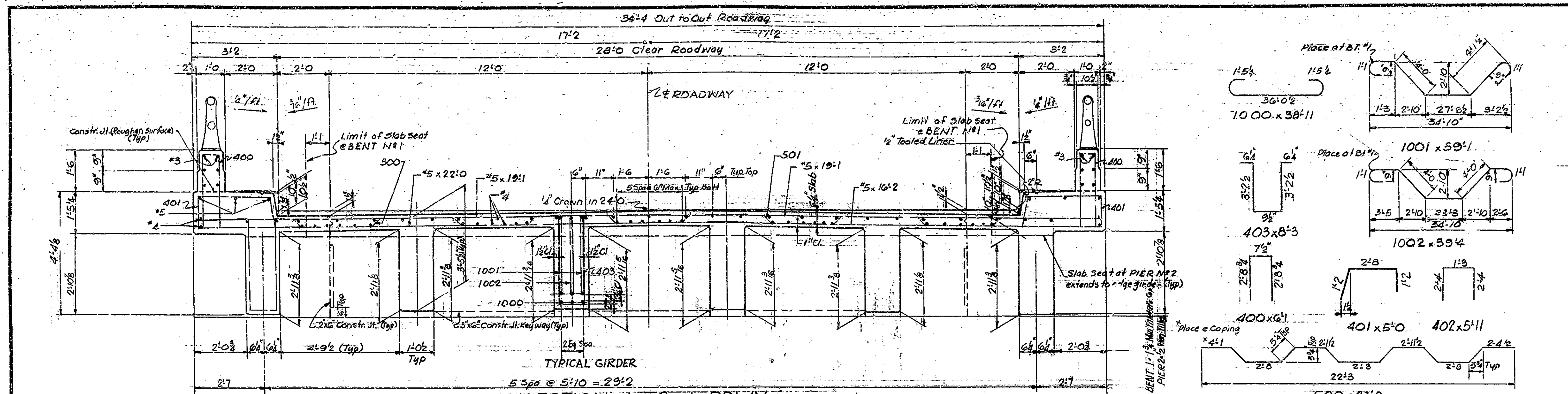
DRAWING: 38 OF 20  
PROJECT: I-465-4(58)108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4403



DESIGNED: RBH CKD: RAG  
DRAWN: RBH CKD: RAG  
TRACED: CKD

BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (98) 108	1963	33	54





BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (89) 108	1963	34	84

**BILL OF MATERIALS  
SPAN "A"**

MATERIAL OR SIZE	NO. OF BARS	LENGTH	WEIGHT lbs.
1000	18	38'-11"	
1001	12	39'-1"	
1002	6	39'-4"	
1003	18	10'-5"	
1004	2	8'-2"	
			6925
500	32	23'-0"	
501	32	16'-8"	
*5	40	22'-0"	
*5	6	2'-3"	
*5	68	19'-1"	
*5	2	16'-9"	
*5	34	10'-2"	
*5	60	3'-3"	
	Total	75	4554
400	58	6'-1"	
401	37	5'-0"	
402	30	5'-11"	
403	174	8'-3"	
404	20	2'-10"	
405	20	3'-3"	
408	28	8'-8"	
409	2	4'-0"	
410	2	5'-11"	
411	2	5'-0"	
*4	61	35'-2"	
*4	12	17'-10"	
*4	12	17'-0"	
*4	26	4'-2"	
	Total	74	5490
*5	4	14'-6"	
*5	4	13'-7"	
*5	12	13'-4"	
*5	4	12'-8"	
*5	12	12'-7"	
*5	4	11'-7"	
*5	26	3'-2"	
509	2	2'-8"	
310	2	4'-7"	
311	2	3'-8"	
	Total	73	235
	Total Steel		15184
<b>CONCRETE</b>			
Pour N#1			16.4 CY
Pour N#2			40.2 CY
Pour N#3			16.3 CY
Total C.I.F. Conc.			72.9 CY
<b>Railing Concrete: C.I.F. 65.5 CY</b>			
<b>Railing</b>			
Type 3 or B			55.1 LF

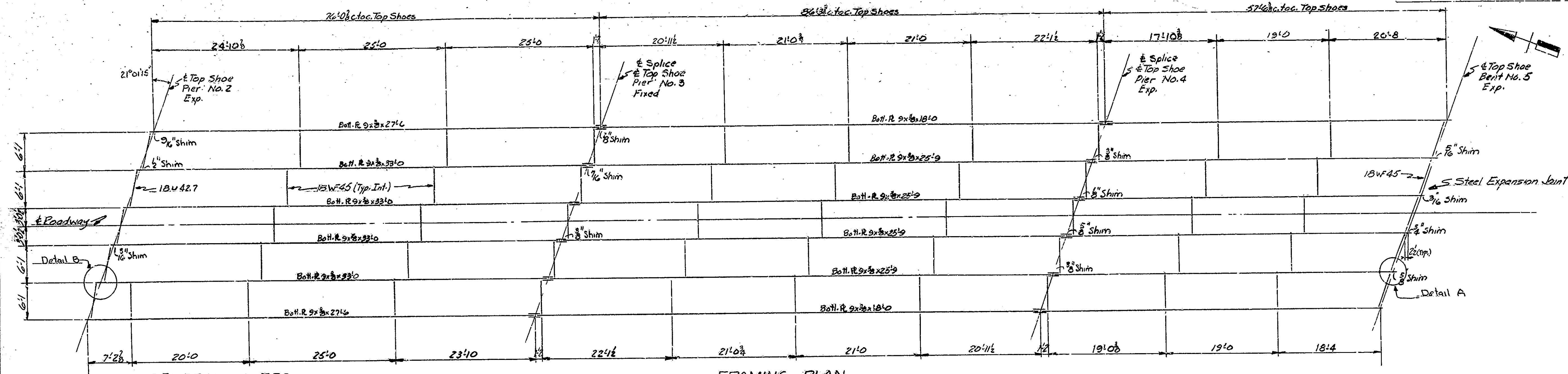
**SPAN "A" DETAILS  
STATE HIGHWAY DEPARTMENT OF INDIANA**

SCALE: As Noted  
 November 14, 1962  
 DRAWING: 510 OF 20  
 PROJECT: I-465-4 (89) 108  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE: I-465-108-4403



DESIGNER	R.M.H.	CHECKED	J.E.R.
DRAWN	R.M.H.	CHECKED	J.E.R.
TRAN. ED.		CHECKED	

BRIDGES OVER 20' SPAN					
PUR. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-108	1963	35	84



**GENERAL NOTES**

Rivets 3/8" Open Holes 1 1/8" unless noted.

The shop plans shall indicate whether reaming is to be done in shop or field. If shop reaming or drilling is used, the beams may be reamed with the webs either in a horizontal or vertical position. If the beams are reamed with the webs vertical, they shall be supported relative to their final erection position. If they are reamed with the webs horizontal, a minimum of one line of beams shall be shop assembled with webs vertical and inspected for fit. The shop details shall show a plan of matchmarking for all reamed pieces. All splice plates to be removed, cleaned and painted after reaming. Splice plates shall not extend beyond the end of beam after bolting for shipment. Flange splice bars shall have planed or rolled edges and holes in bars shall be subdrilled and reamed or drilled full size while assembled.

All structural steel shall be erected and beams adjusted to relative elevation before driving rivets in beam splices. Diameter of holes in all material connecting top shoe to beam flanges shall be 1/16" in excess of nominal diameter. Bolts connecting beam flange to top shoe shall extend into top shoe a minimum of 1/2". Shims between beams and top shoe may be built up. No shims shall be less than 3/8" thick. The contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect, and construct all parts of the work in conformity with the Engineer's drawings and specifications and shall submit 5 copies of these to the Engineer. See Article 1103.2 of the specifications.

Welding shall conform to the specifications 'Welded Highway and Railroad Bridges', See Article E1103.28 of the specifications.

All structural steel shall conform to A.S.T.M. A36 specifications.

Shoes shall be made from ASTM steel A36 except as noted on details. Holes for beam splices shall be subpunched or subdrilled and reamed to size while assembled. See Article E1103.18(d) of the specifications.

**DATA USED FOR DESIGN AND DETAILS**

LIVE LOAD: H 20-S16-44 loading with impact and distribution of loads in accordance with 1961 AASHTO Specifications.

DEAD LOAD: Actual weight plus 35 pounds per sq. ft. of roadway to provide for future wearing surface. Slab: Designed in accordance with 1961 AASHTO Specifications and with 1/2" monolithic wearing surface.

**UNIT STRESSES:**

Structural Steel Bending (Tension) A-26	20000 <sup>16</sup> / <sub>16</sub>
Shear on Rivets	13500 <sup>16</sup> / <sub>16</sub>
Structural Steel Bearing (Including rivets)	27000 <sup>16</sup> / <sub>16</sub>
Bearing Steel on Concrete (Including overturning and eccentric loading)	1000 <sup>16</sup> / <sub>16</sub>
Reinforcing Steel (Tension)	20000 <sup>16</sup> / <sub>16</sub>
Concrete (Compression)	1200 <sup>16</sup> / <sub>16</sub>

**PAINTING STRUCTURAL STEEL**

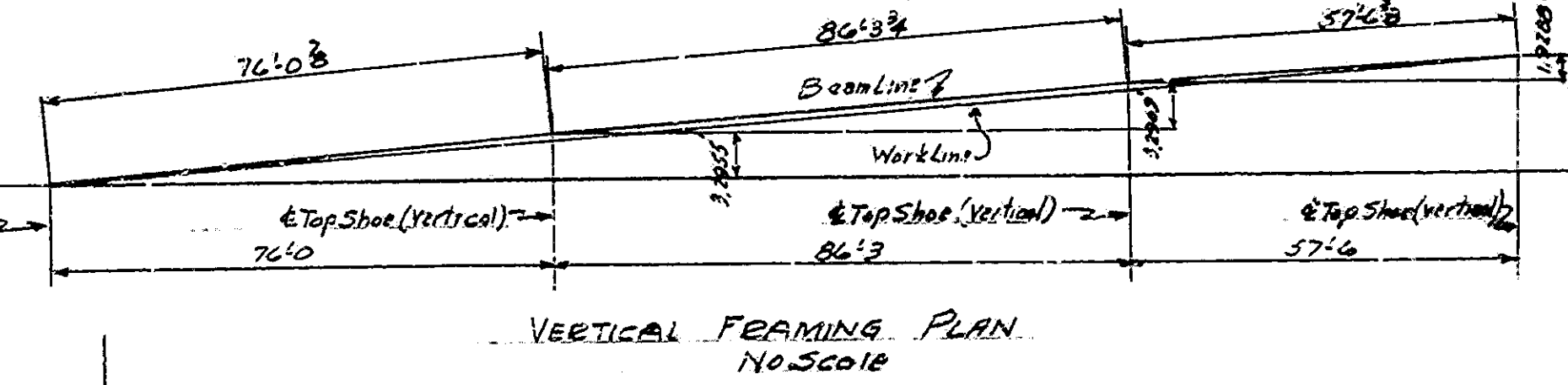
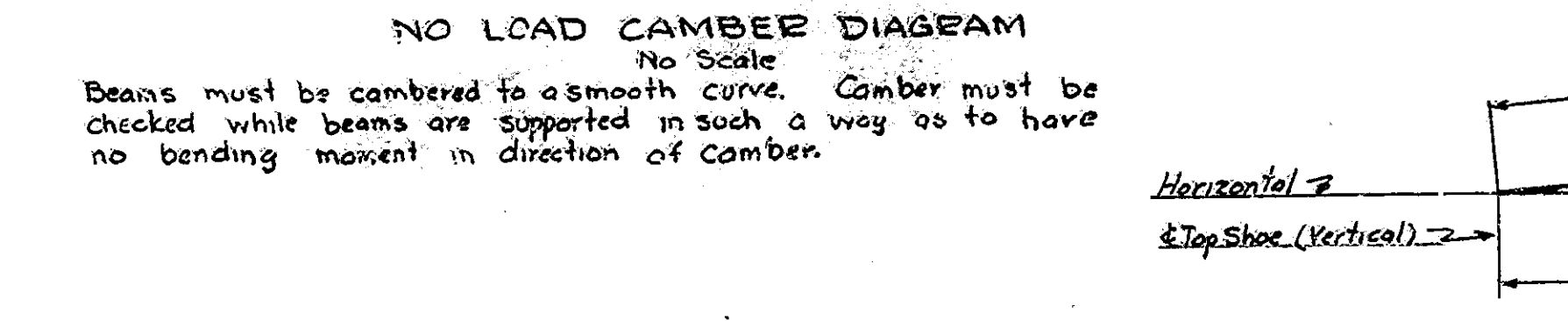
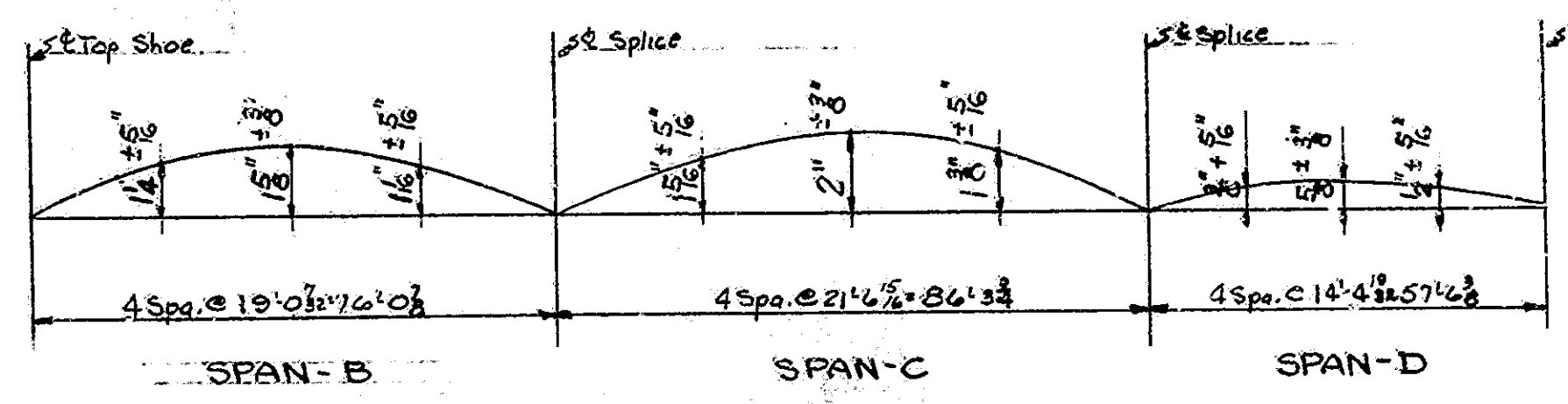
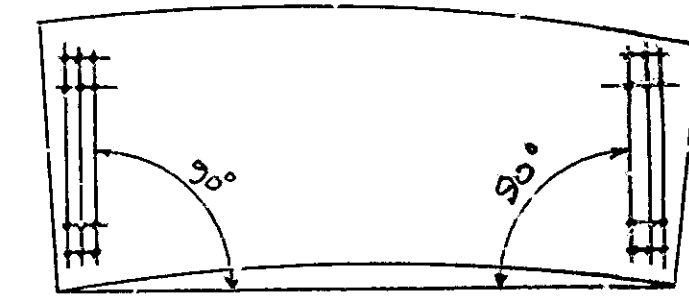
All paint shall be in accordance with current STATE HIGHWAY Specifications. SHOP PAINT: One Coat Red Lead, Type I or II except as noted. FIELD PAINT: Two Coats of Aluminum.

As soon as the Engineer has approved the field welds, all welds and any surface, from which the shop coat has been omitted or becomes worn off or has otherwise become defective, shall be thoroughly cleaned of all charred paint or any foreign matter and completely covered with one coat of shop paint.

Estimated weight of Structural Steel, 230,000\*

**TABLE OF MOMENTS AND REACTIONS**

	Span B		Span C		Span D		Reaction E1		Reaction E2		Reaction E3		Reaction E4	
	INT. BM.	O.S. BM.	INT. BM.	O.S. BM.	INT. BM.	O.S. BM.	INT. BM.	O.S. BM.	INT. BM.	O.S. BM.	INT. BM.	O.S. BM.	INT. BM.	O.S. BM.
DEAD LOAD	8.29	12.62	528.0	716.0	8.02	8.19	352.0	330.0	195.9	241.2	27.3	34.2	81.2	704.3
WHEEL LOAD	8.78	6.86	861.0	361.0	8.35	6.52	333.0	338.0	340.0	340.0	58.4	24.8	50.8	39.6
IMPACT	2.77	1.70	81.0	87.0	1.37	1.34	83.0	83.0	94.0	94.0	9.5	5.0	12.4	9.5
TOTAL	19.84	21.18	1470.0	1164.0	17.74	16.05	768.0	751.0	629.9	675.2	95.2	74.0	144.4	1028.5



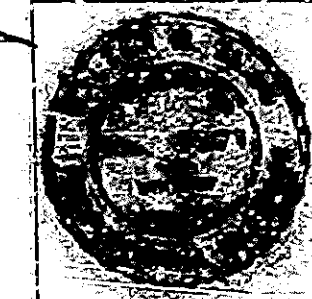
**NOTES**

See Dwg. S13 For Details A & B  
See Dwg. S12 for Beam Details  
See Dwg. S14 For Shoe Details  
See Dwg. S15 For Steel Expansion Joint Details.

**FRAMING PLAN SPANS B-C-D**  
**STATE HIGHWAY DEPARTMENT OF INDIANA**

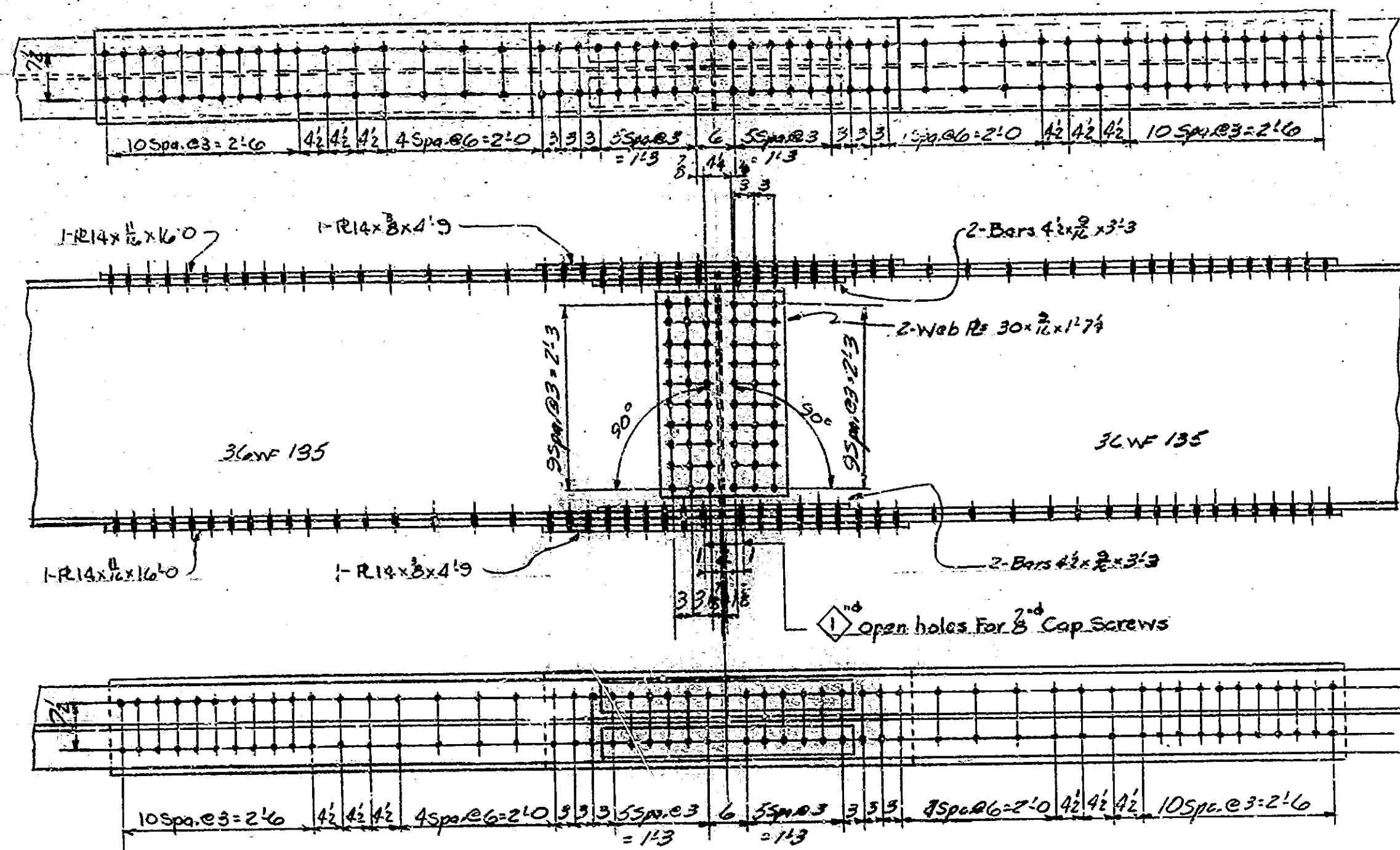
SCALE: As Noted  
November 14, 1962

DRAWING: 511 OF 20  
PROJECT: I-465-108  
BRIDGE CONTRACT NO.: 5926  
BRIDGE FILE: I-465-108-4103

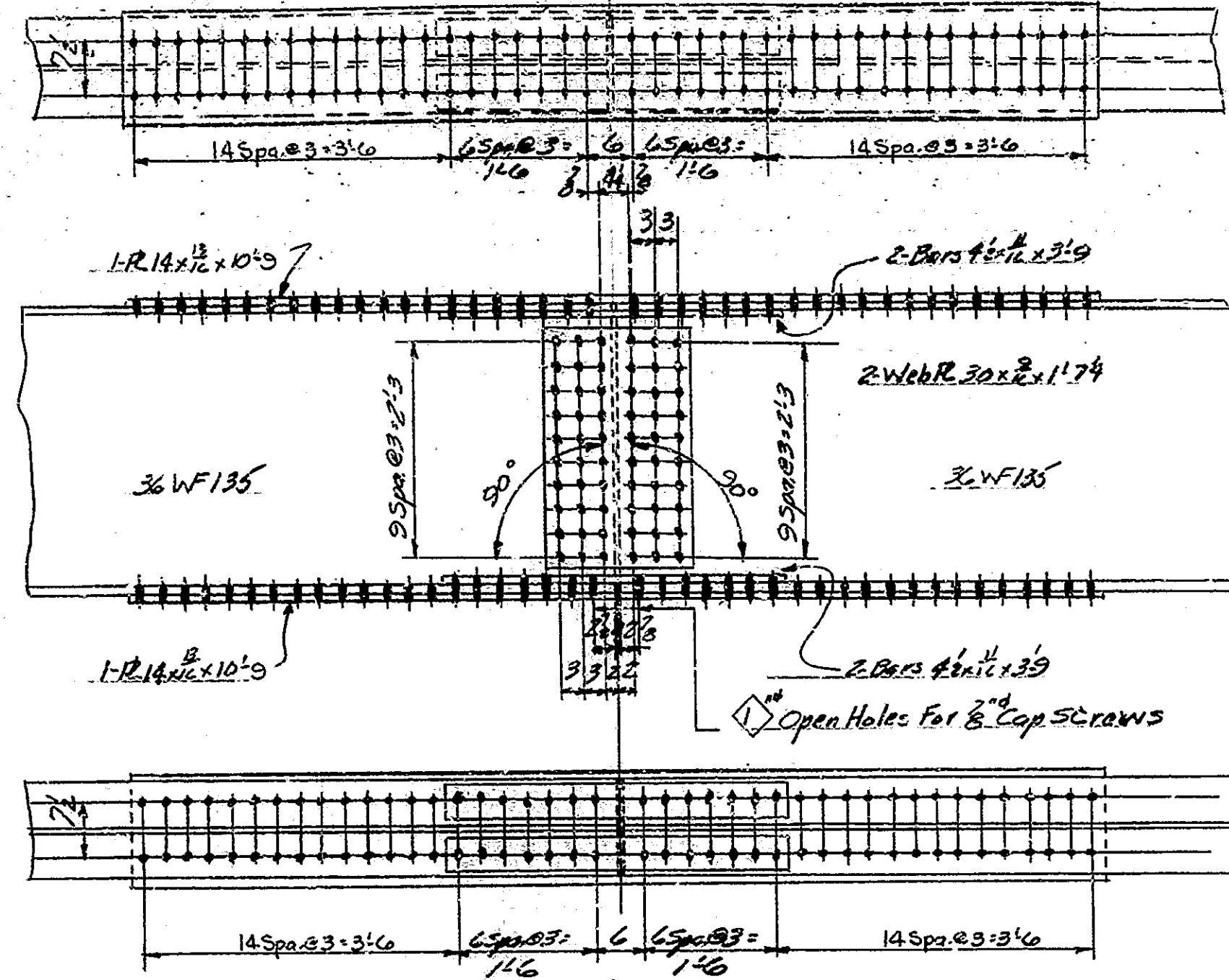


DESIGNED: RBH	CHKD: WEM
DRAWN: JBI	CHKD: RBH
TRACED: CRP	

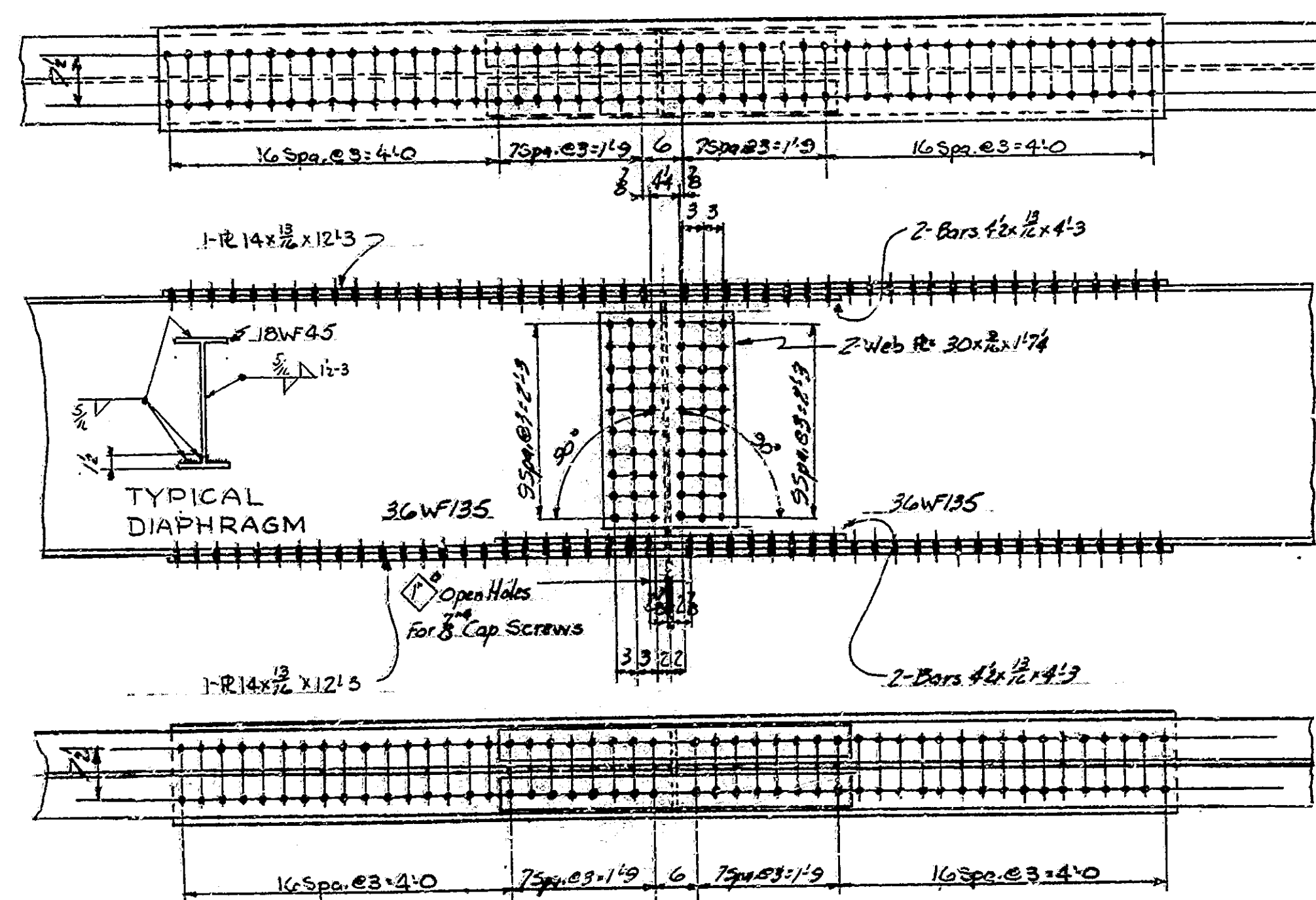
BRIDGES OVER 20' SPAN					
PUR. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (80)108	1963	36	34



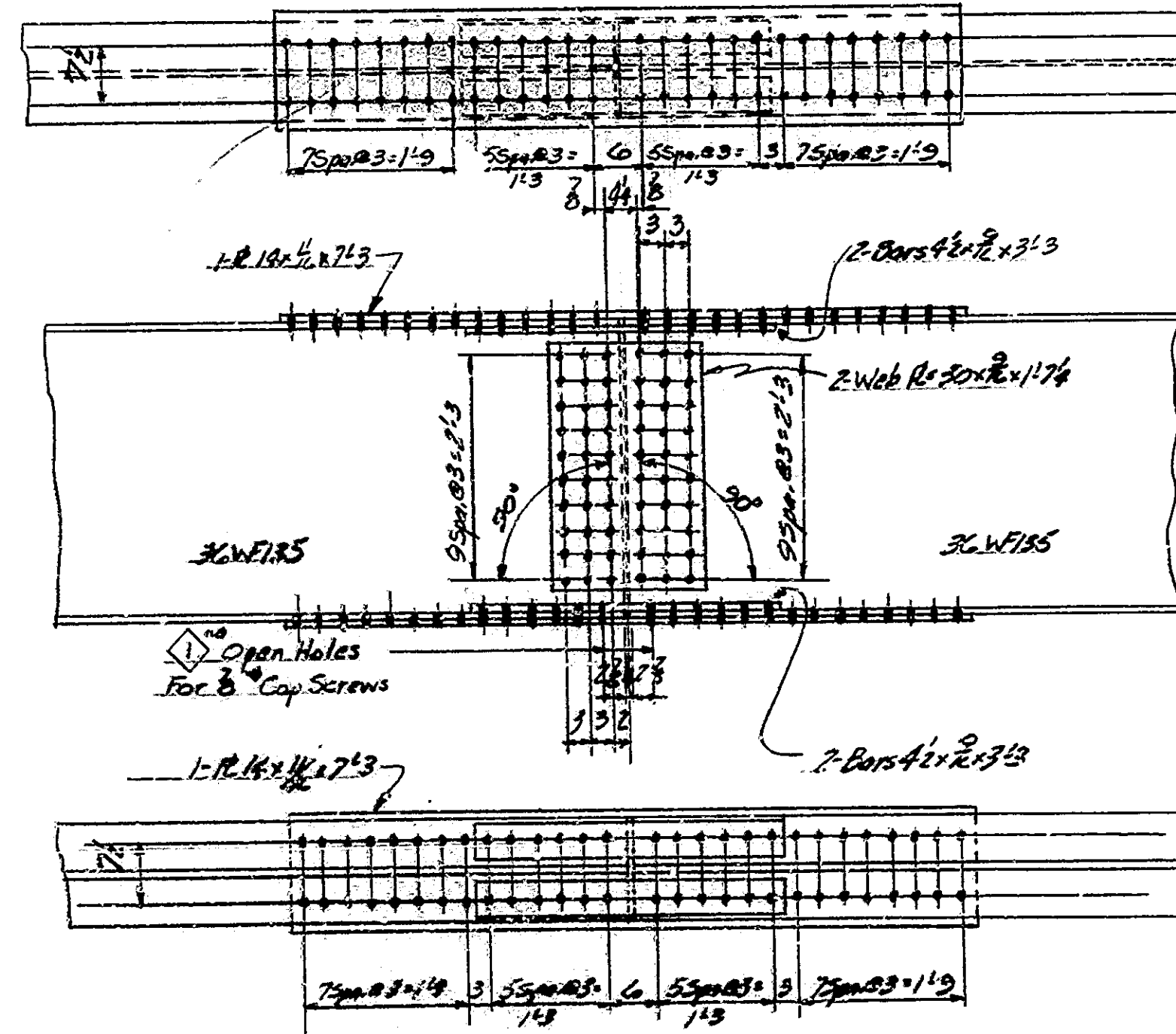
OUTSIDE BEAM SPICE  
PIER No. 3



OUTSIDE BEAM SPICE  
PIER No. 4



INTERIOR BEAM SPICE  
PIER No. 3



INTERIOR BEAM SPICE  
PIER No. 4

Notes:  
Open Holes 1 1/2" Unless noted.  
Rivets 3/8"  
See Dwg. 311 For Framing Plan.

STEEL DETAILS  
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 3/4" = 1'-0"

Walter J. Ream

November 14, 1962

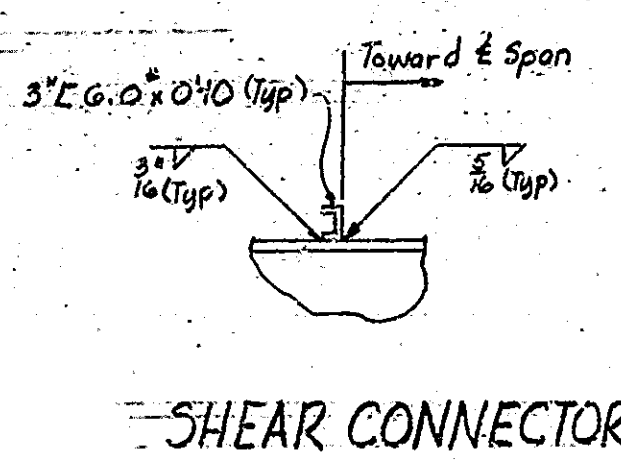
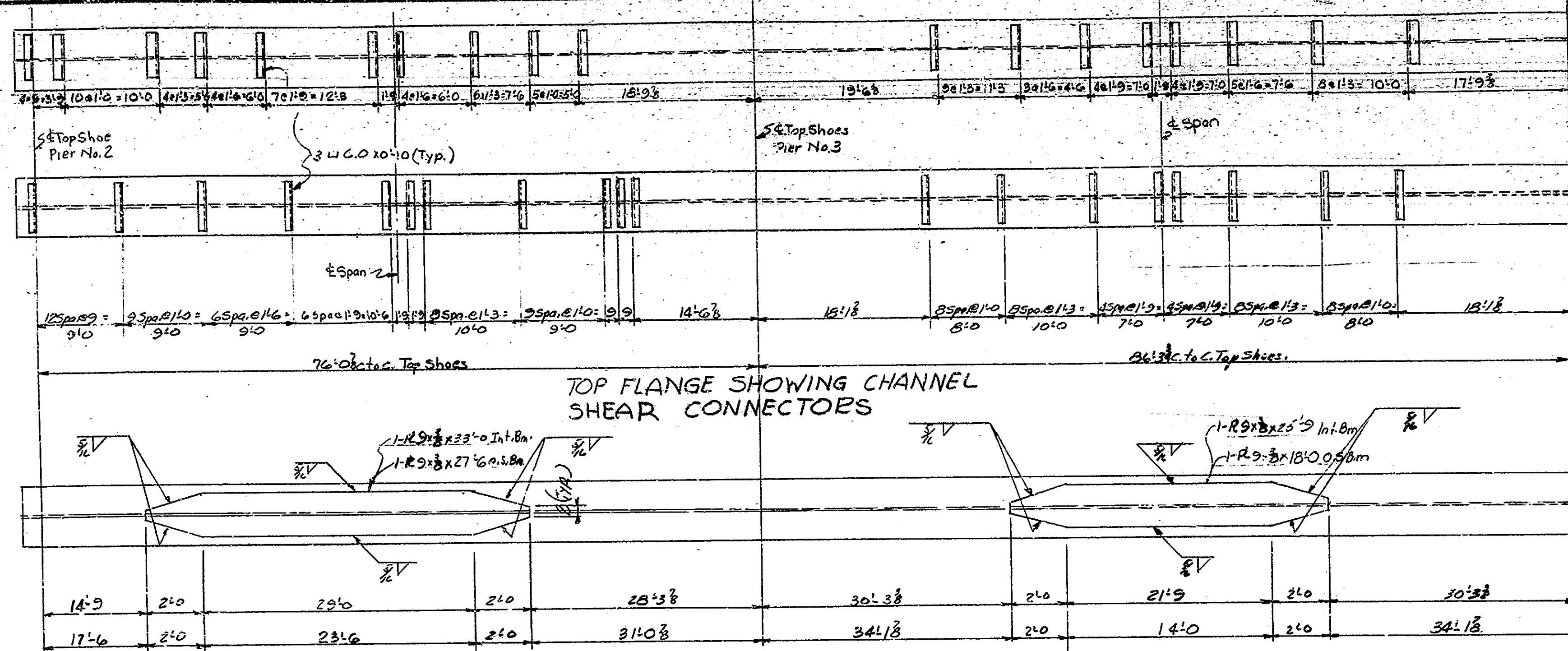
DRAWING: 312 OF 20  
PROJECT: I-465-4 (80)108  
BRIDGE CONTRACT NO. 4926  
BRIDGE FILE: I-465-108-4403



DESIGNED: WEN CKD: RPH  
DRAWN: JAT CKD: RPH  
TRACED: CKD

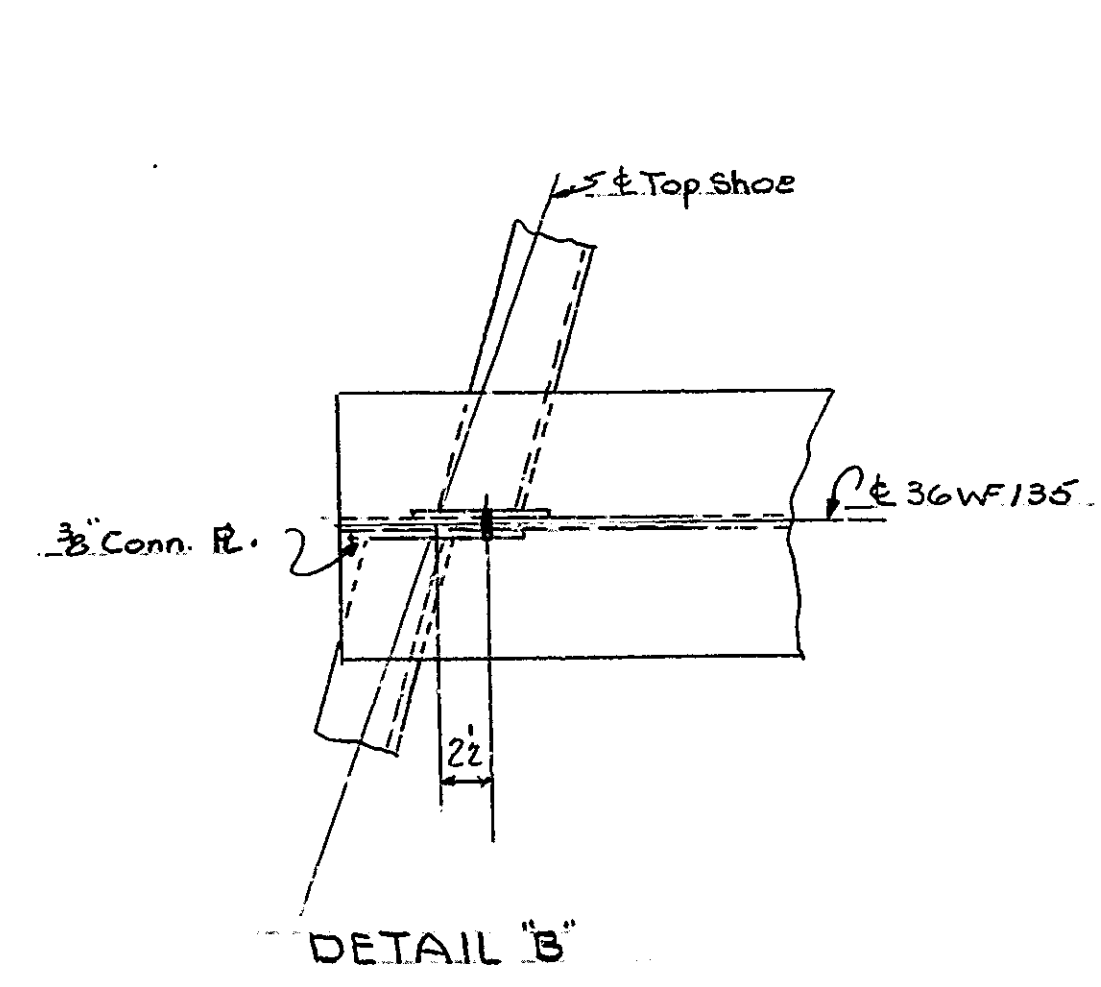


BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (98) 108	1963	37	84

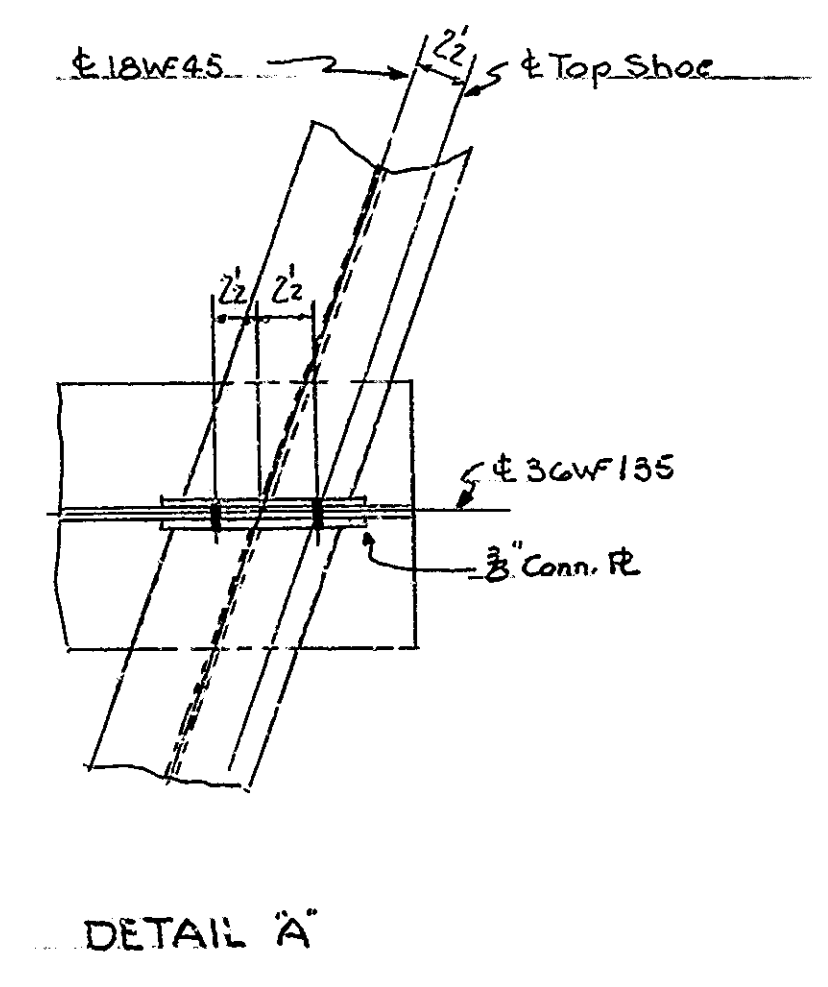


SHEAR CONNECTOR

**NOTES:**  
 See Dwg. S 11 For Framing Plan and General Notes.  
 The Contractor may substitute flux welded studs in place of the Channel Shear Connectors shown. It shall be the Contractor's responsibility to design the size, spacing, and number of studs to carry the same shear as for the channels. Shop drawings shall be submitted showing this change for approval.  
 See Dwg. S 11 For Location of Detail A & B



DETAIL "B"



DETAIL "A"

Scale 1/2"=1'-0"

STEEL DETAILS  
 STATE HIGHWAY DEPARTMENT OF INDIANA

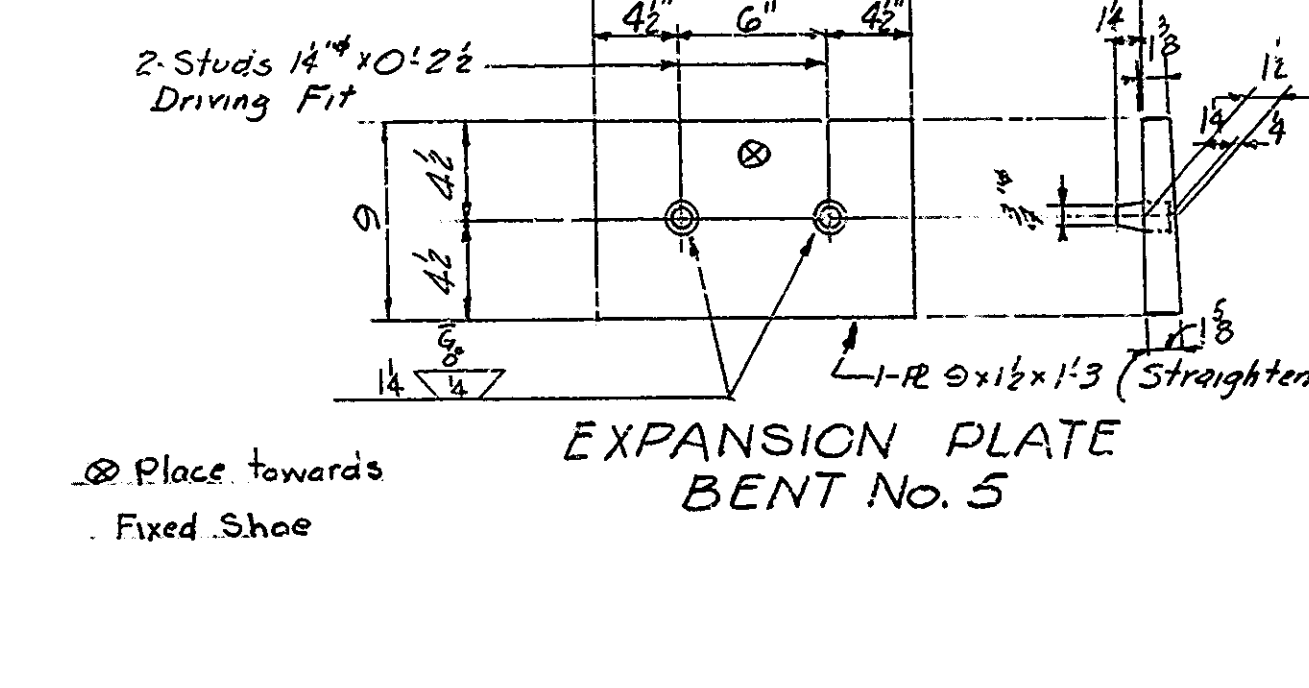
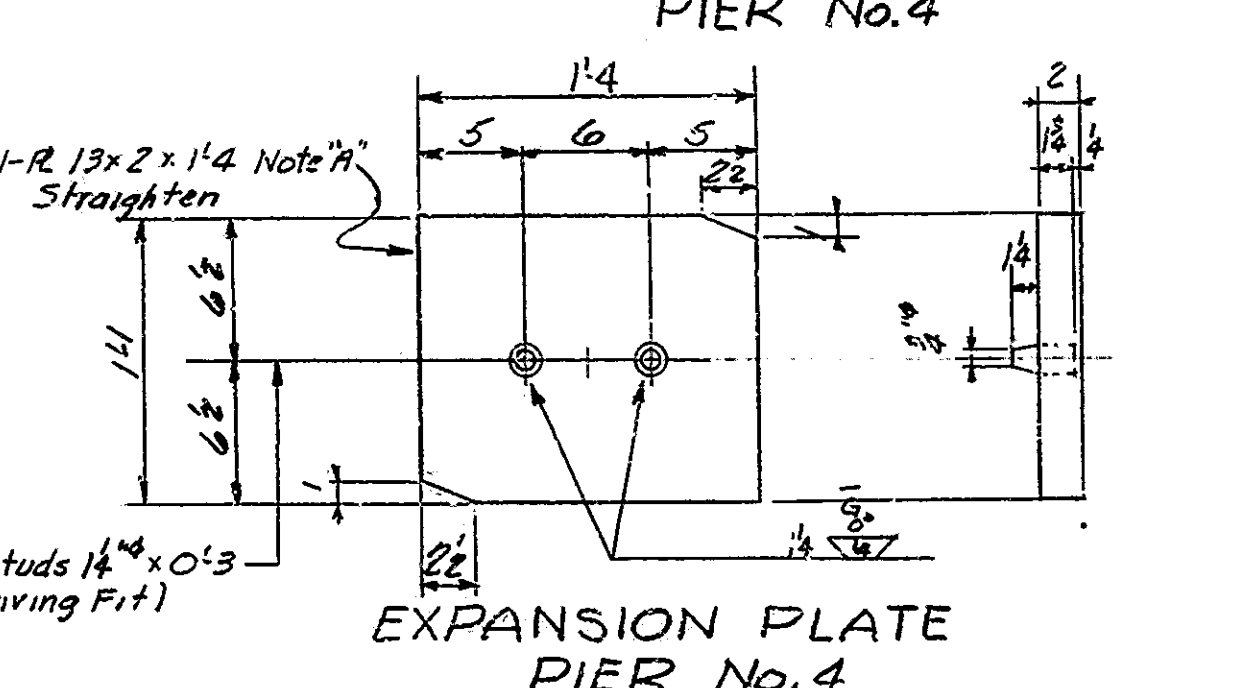
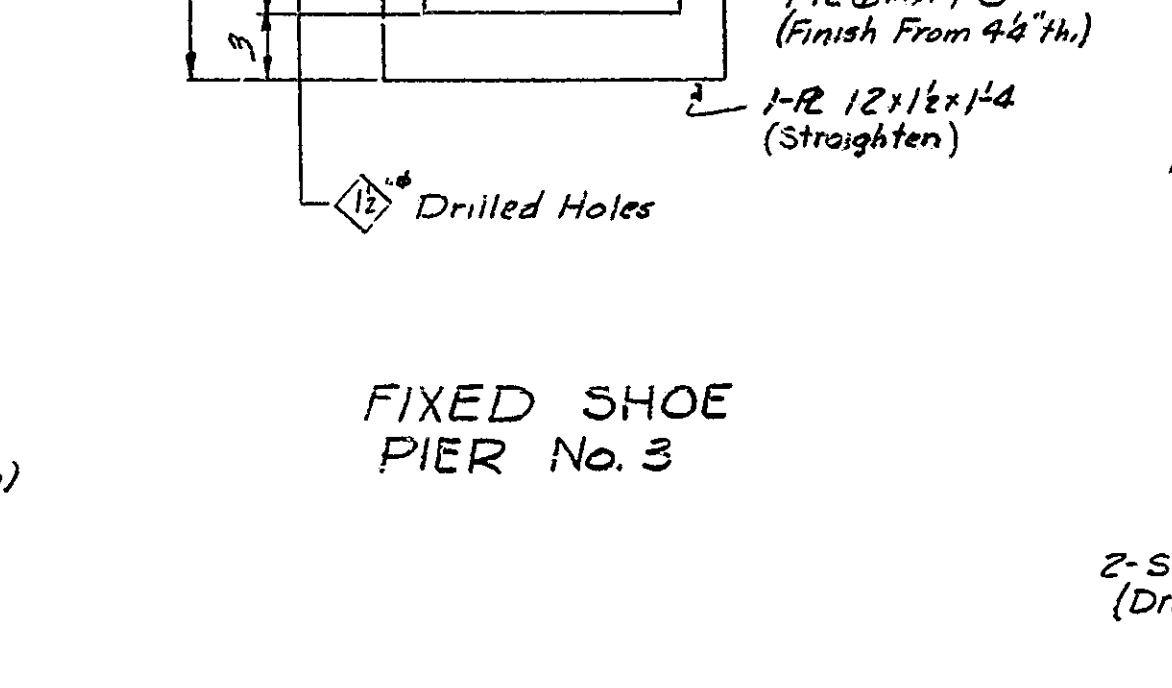
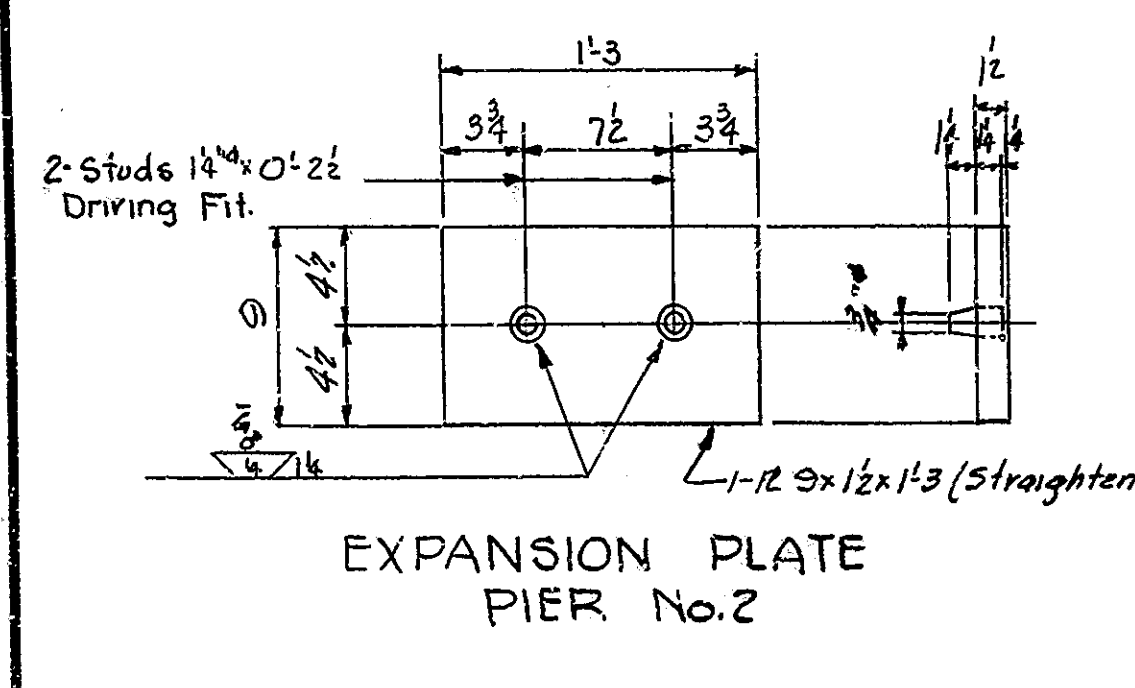
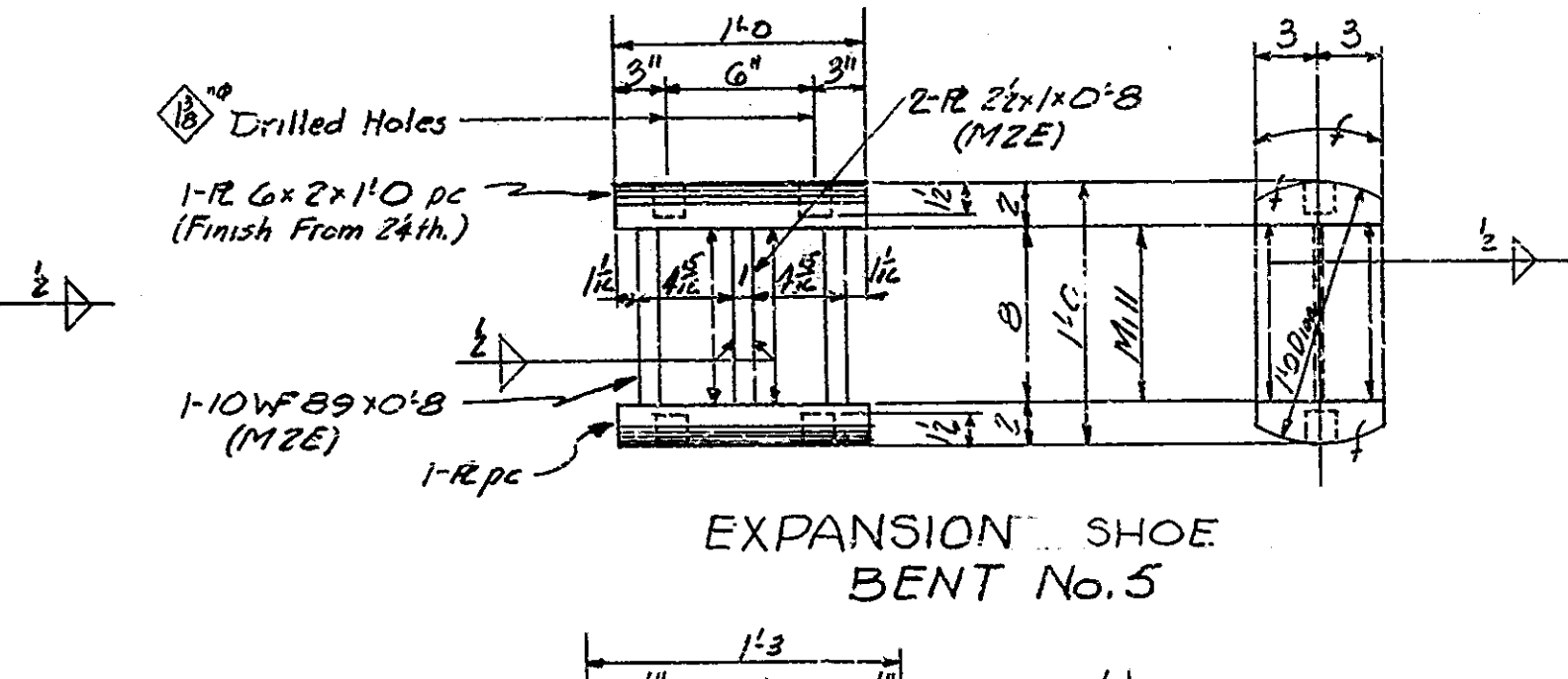
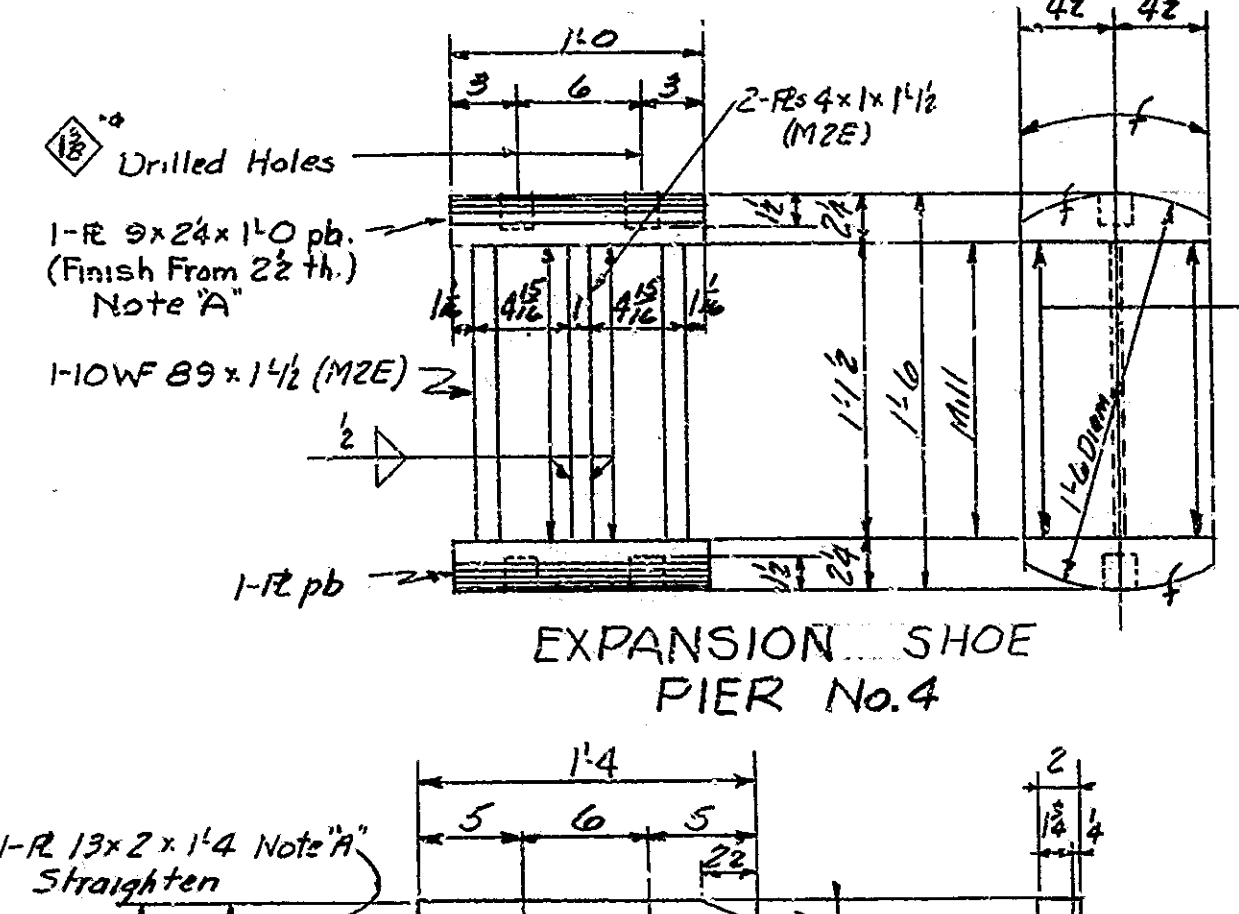
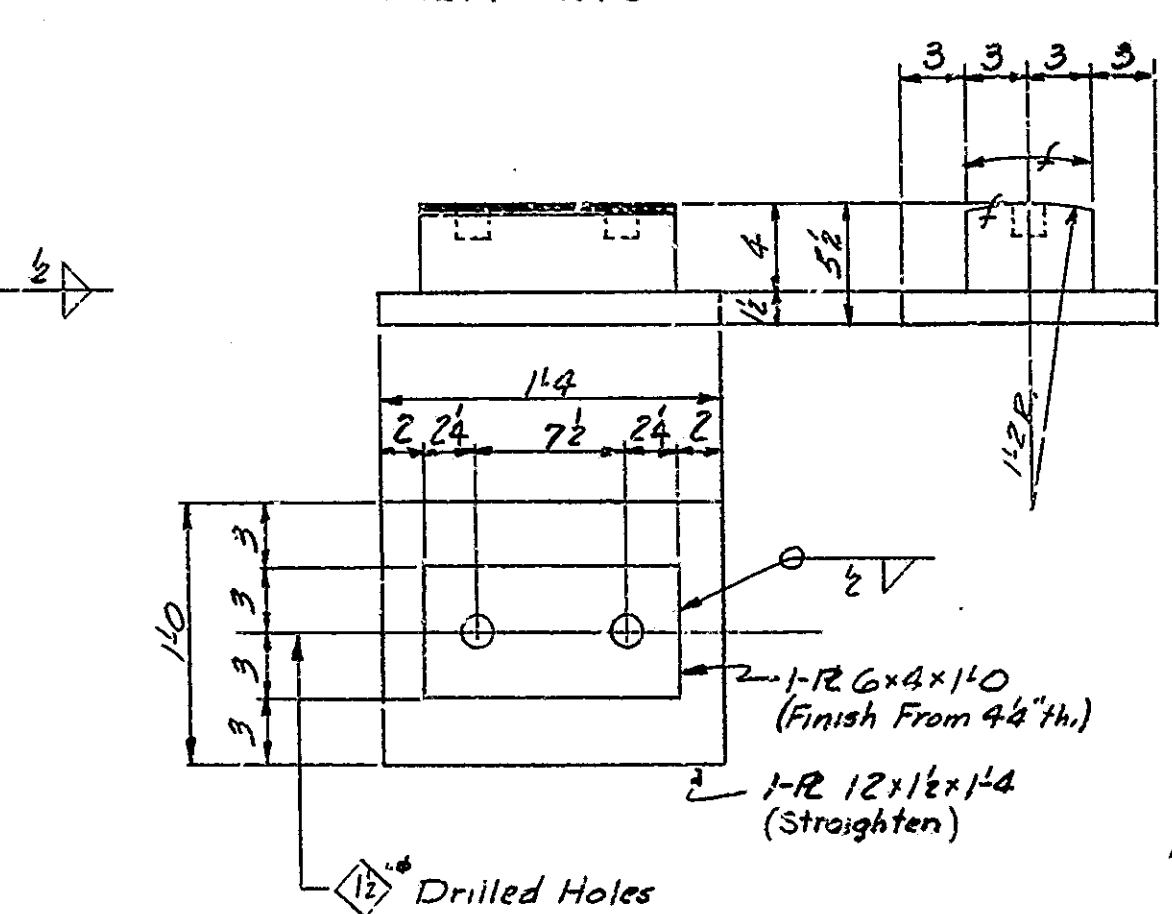
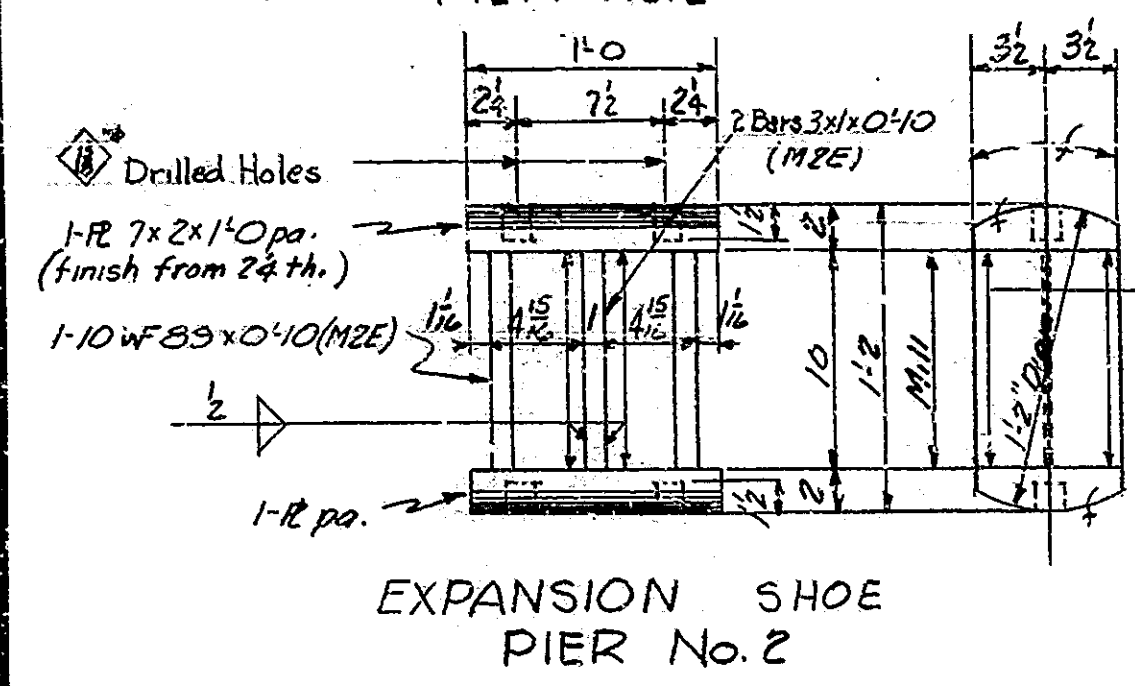
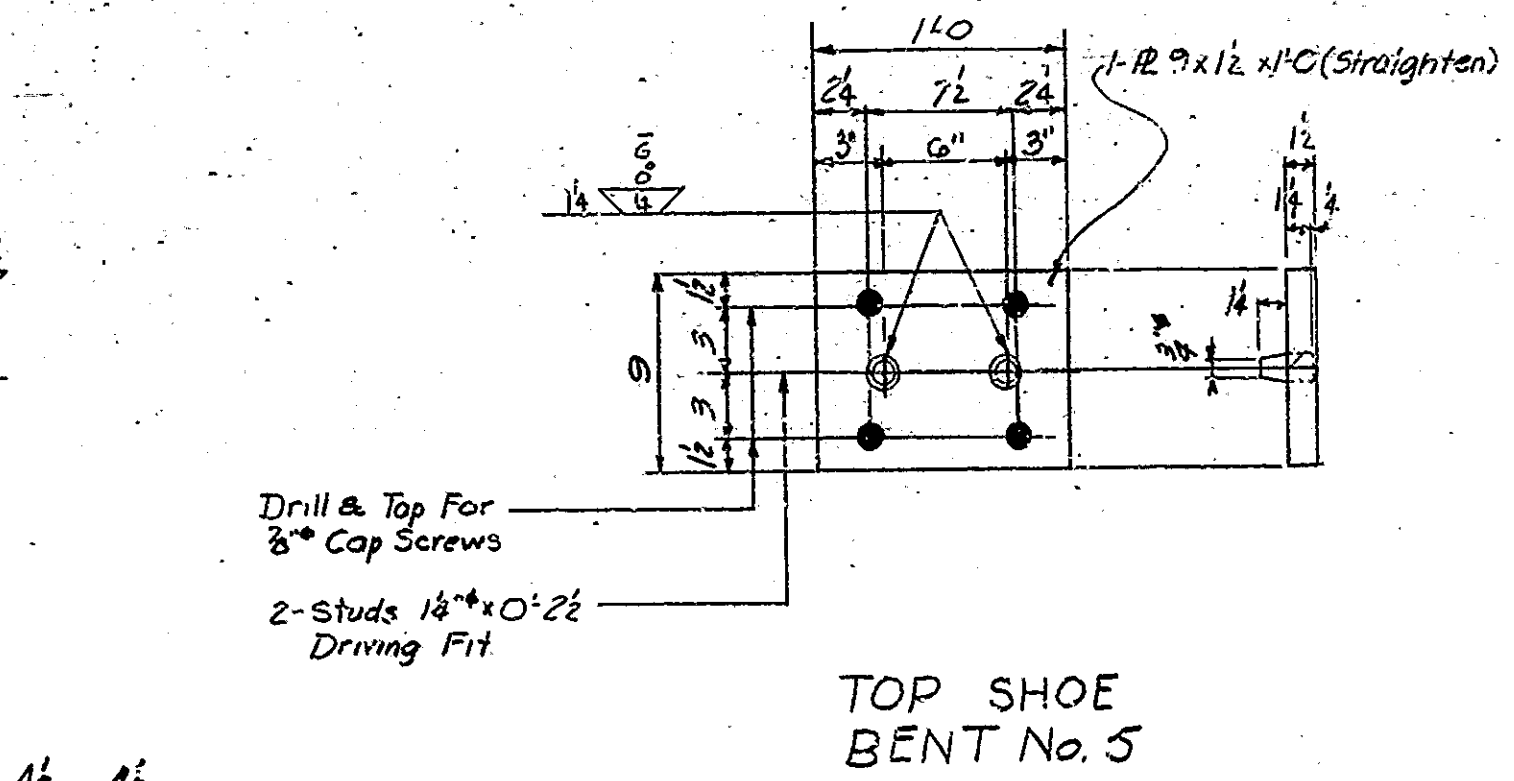
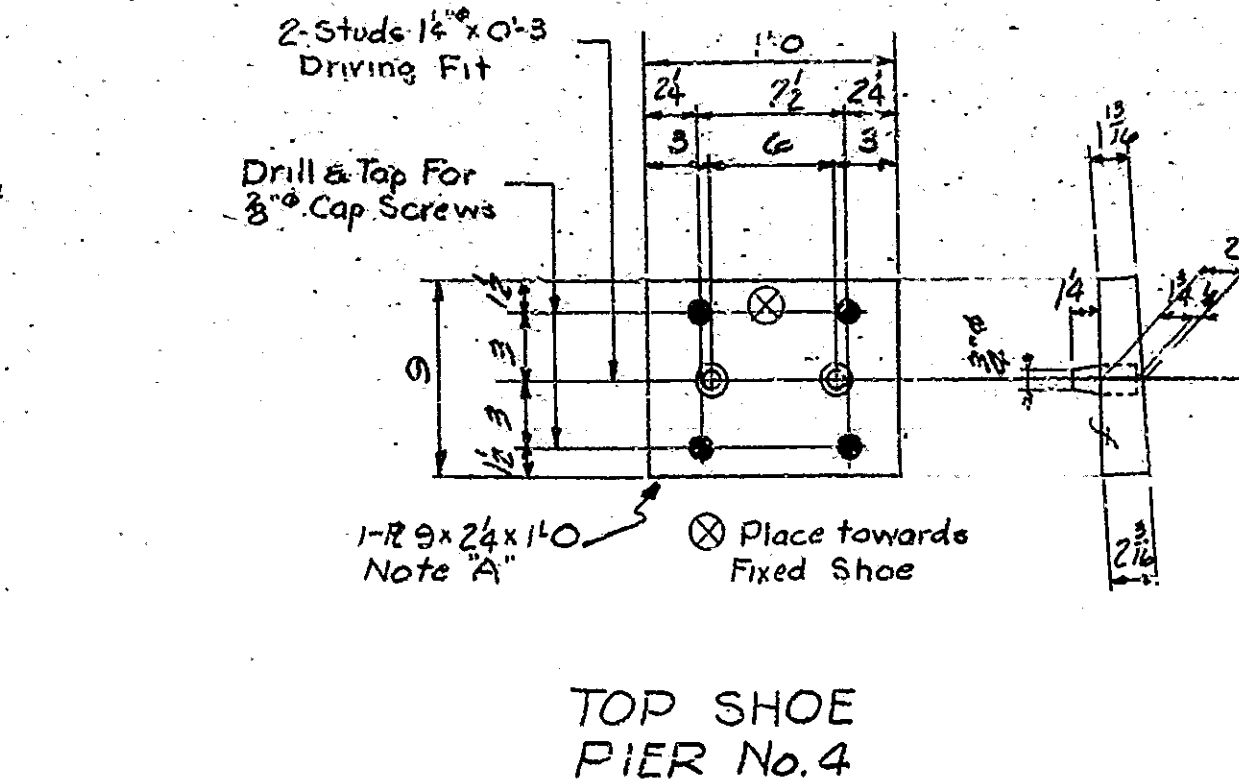
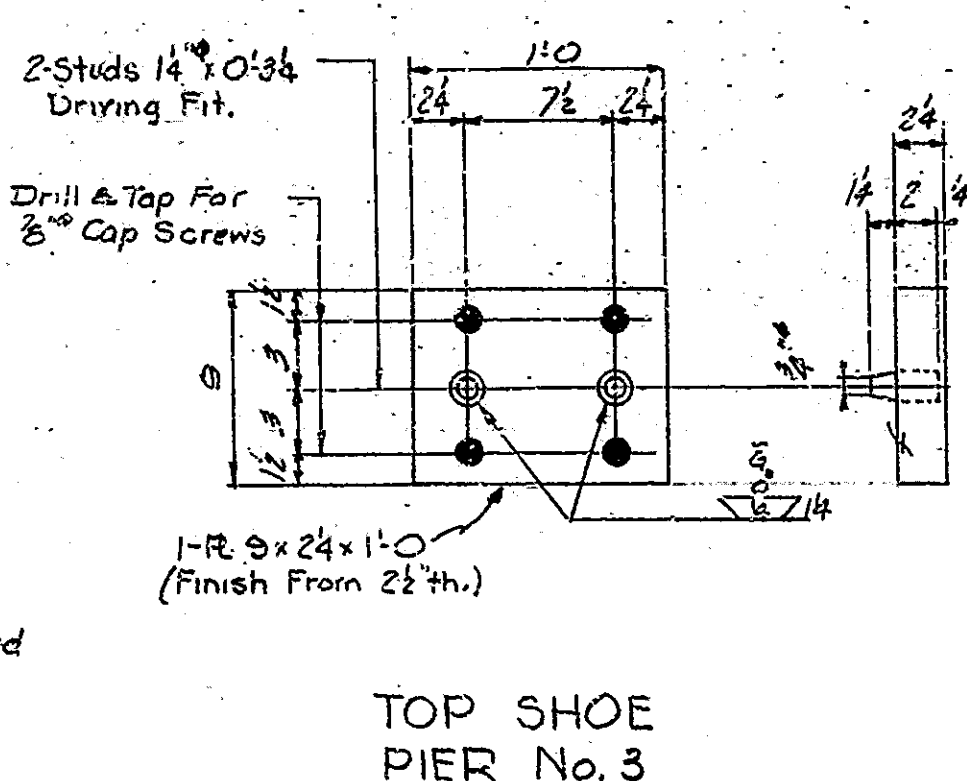
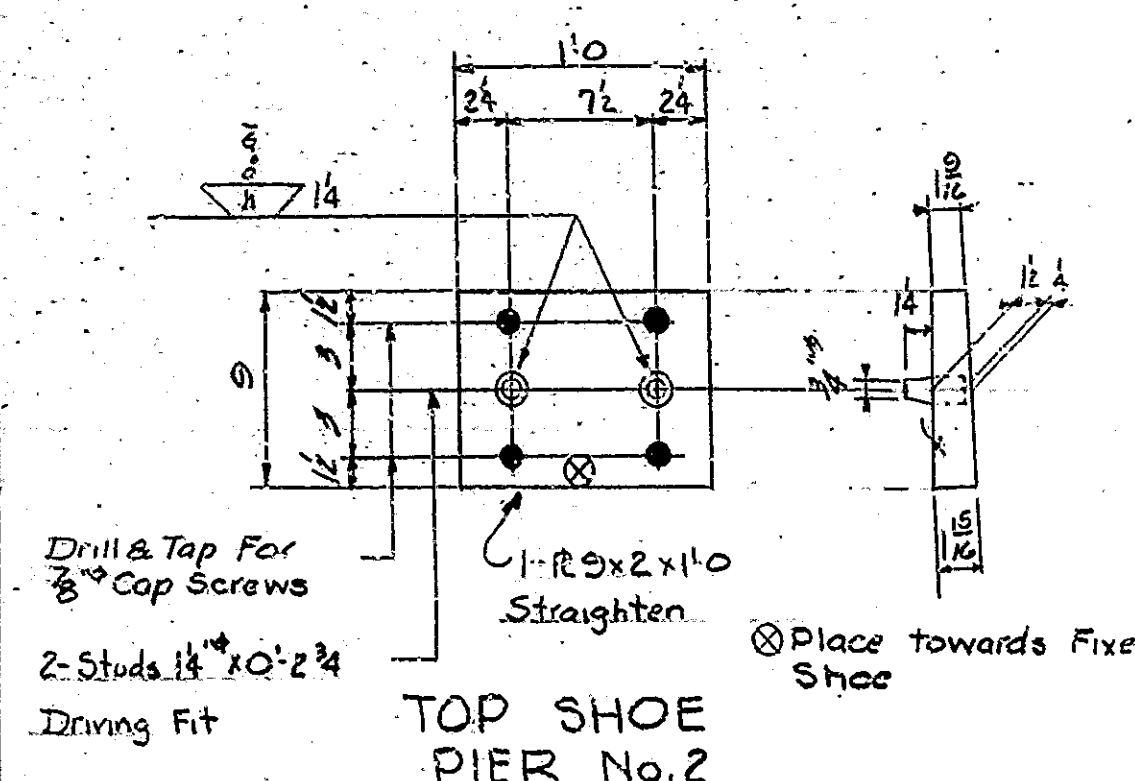
SCALE: NONE  
 November 14, 1962  
 Walter M. Bean

DRAWING: S13 OF 20  
 PROJECT: I-465-4 (98) 108  
 BRIDGE CONTRACT NO. 5926  
 BRIDGE FILE: I-465-108-1403

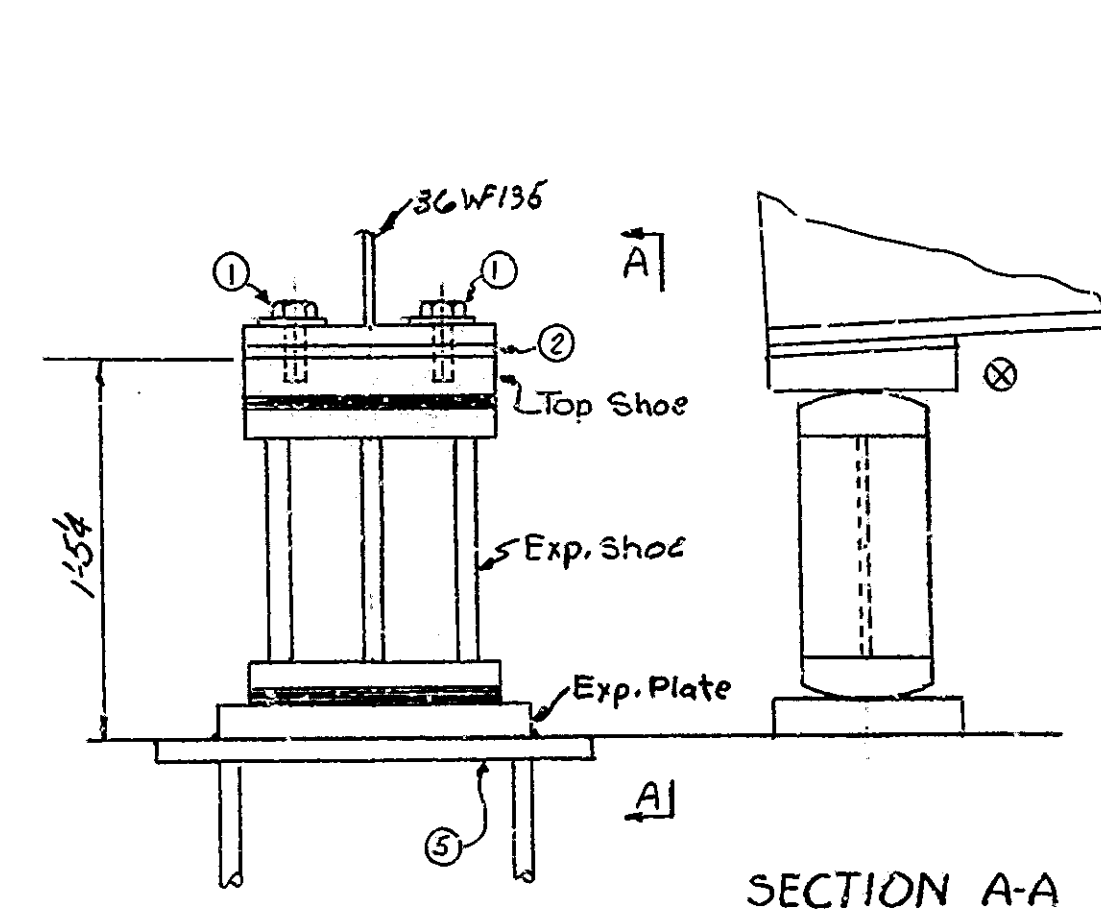


DESIGNED	NEW	CKD	RRH
DRAWN	JAF	CKD	RRH
TRACED		CKD	

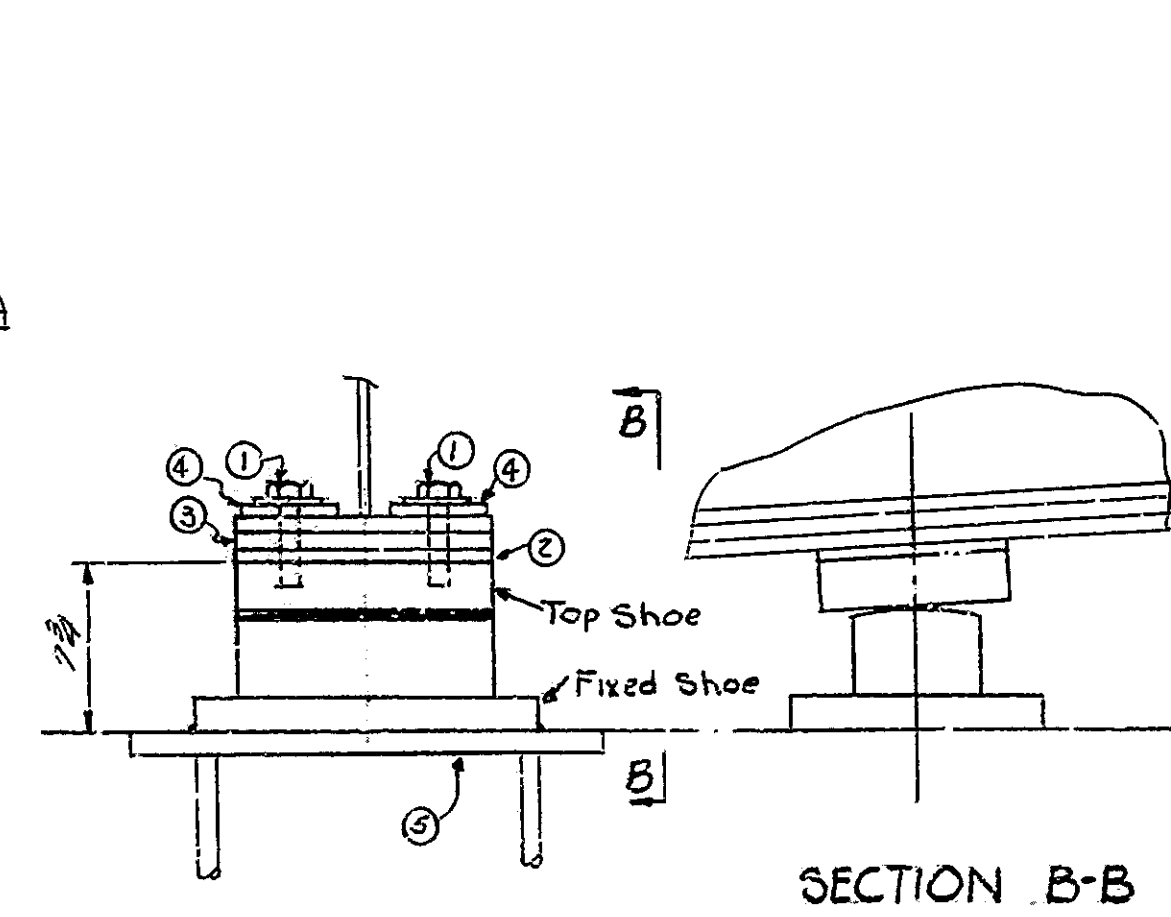
BRIDGES OVER 20' SPAN					
PUB. ROAD SEL. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-d (88)108	1963	38	84



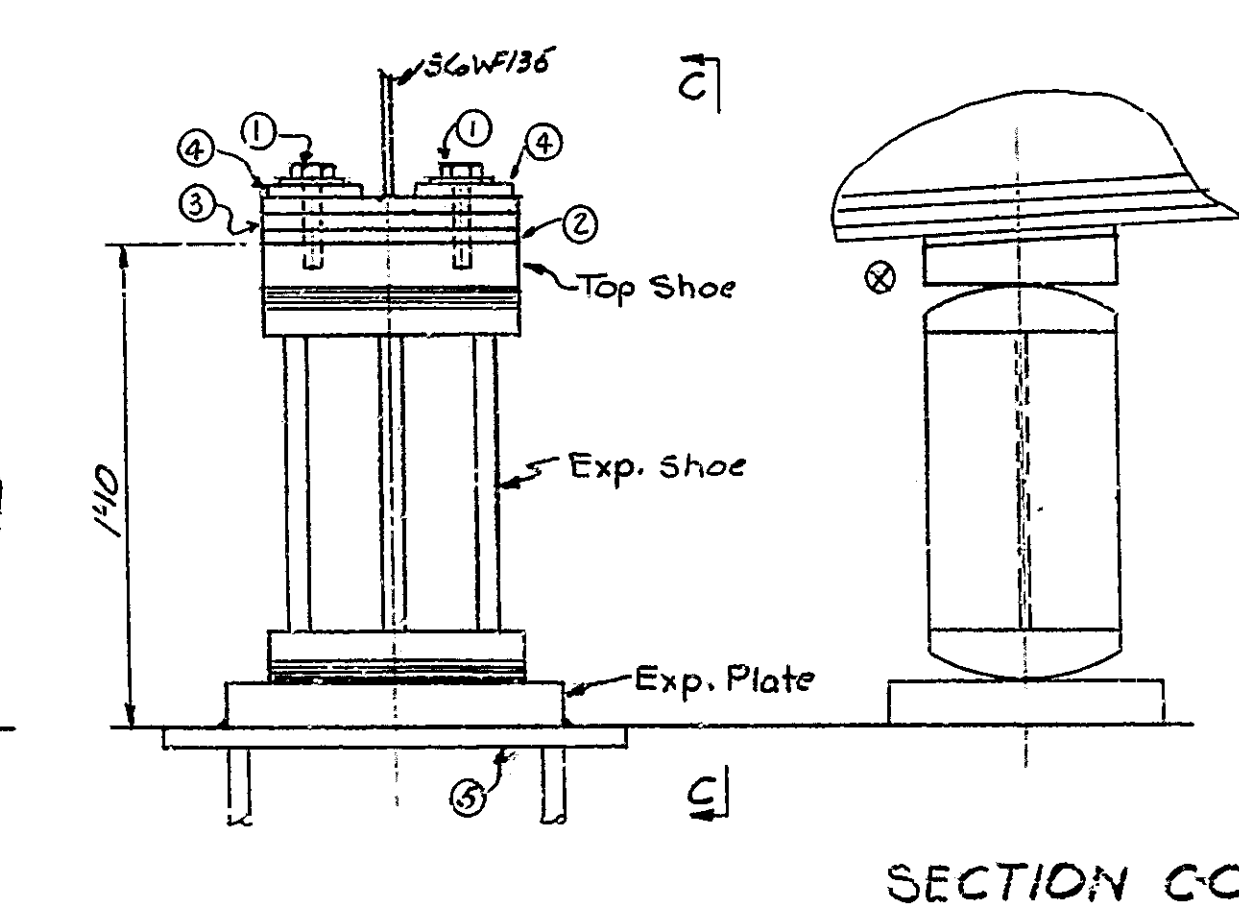
NOTES:-  
Open Holes as noted  
See Dwg. 52 For General Notes  
See Dwg. 56 For Anchor Plate AP  
Details.  
Note 'A' - High strength Low Alloy  
structural Steel ASTM A-242-55



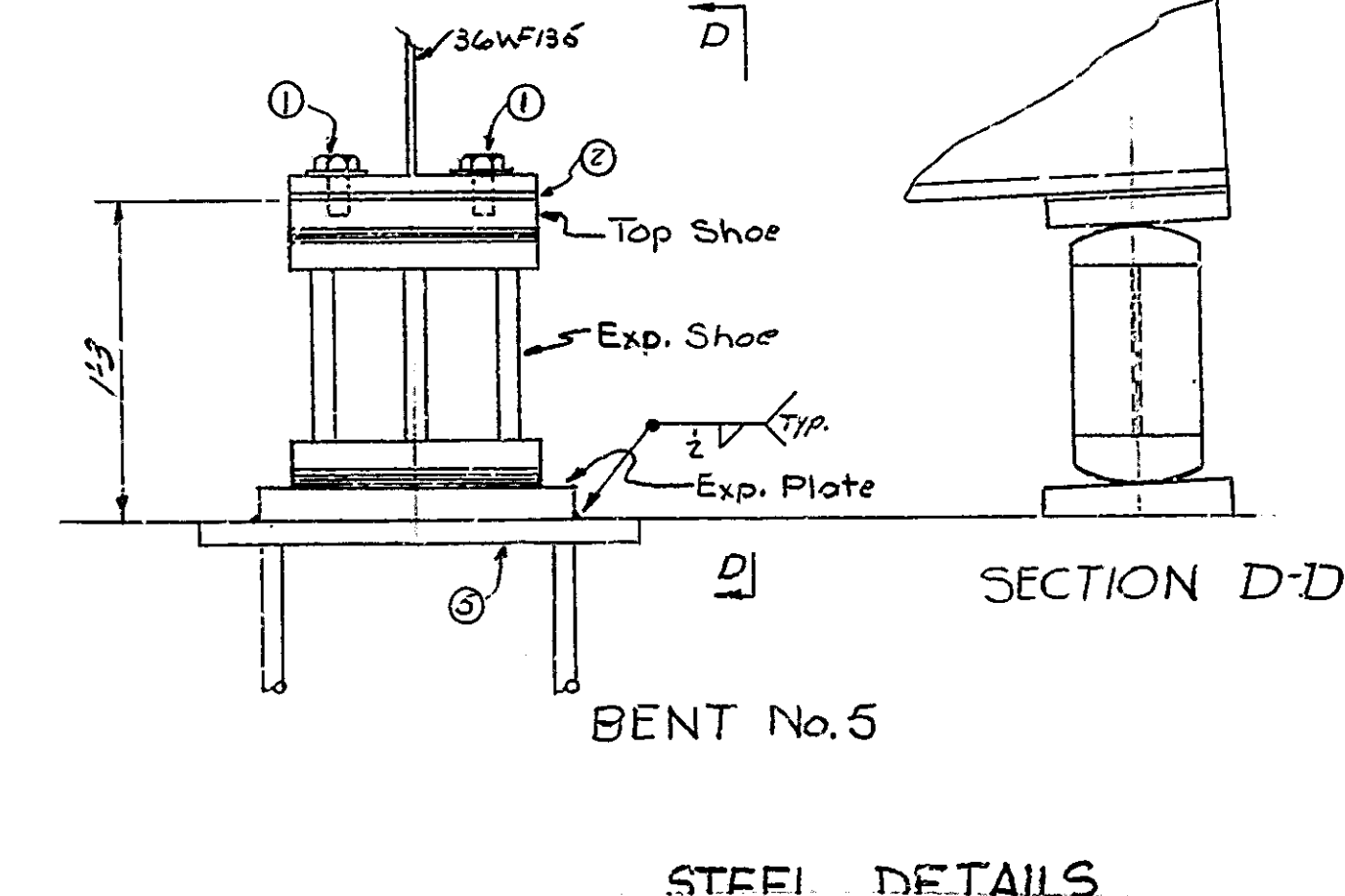
PIER No. 2



PIER No. 3



PIER No. 4



BENT No. 5

SHOE ASSEMBLY

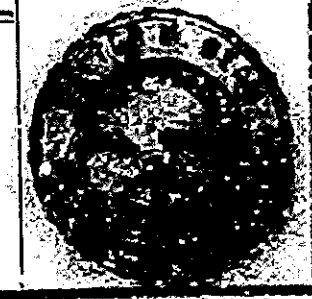
- SECTION C-C
- ① 2-3/8" Cap Screws with Lockwashers
  - ② Shims where needed
  - ③ Splice Plate
  - ④ Splice Bar
  - ⑤ Anchor Plate AP (Billed with Substructure)
  - ⊗ Place towards Fixed Shoe

STEEL DETAILS  
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 1/2" = 1'-0"

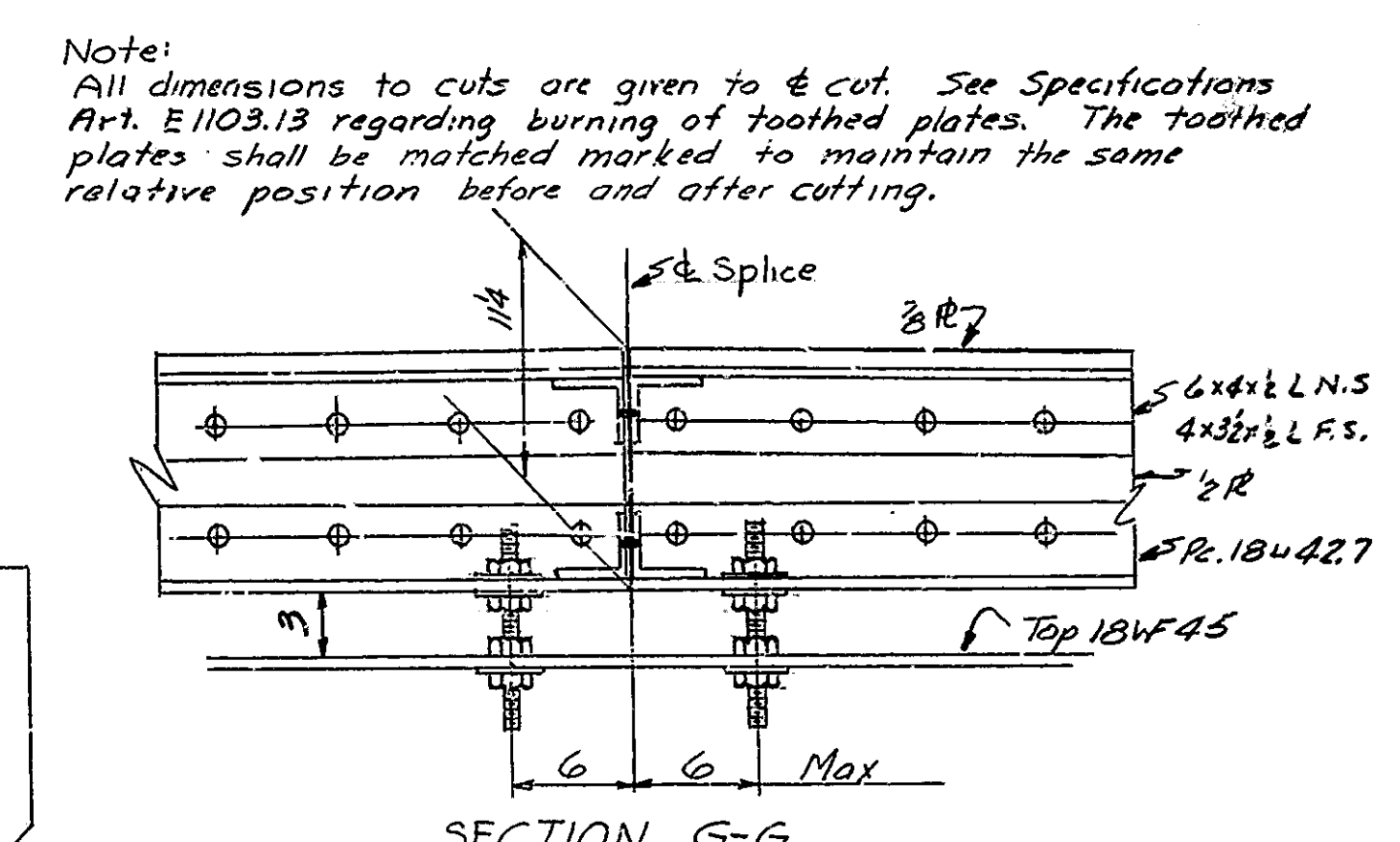
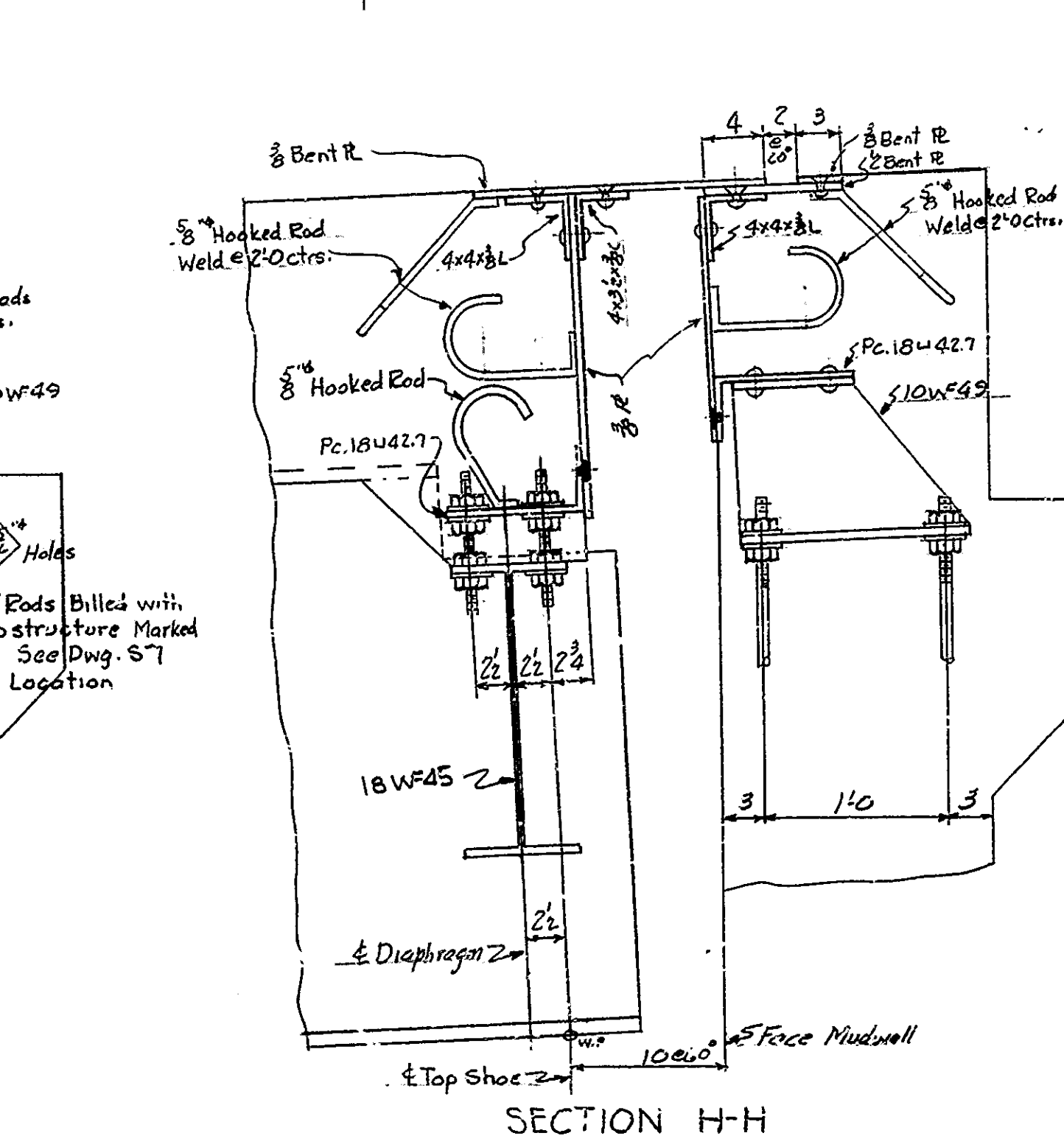
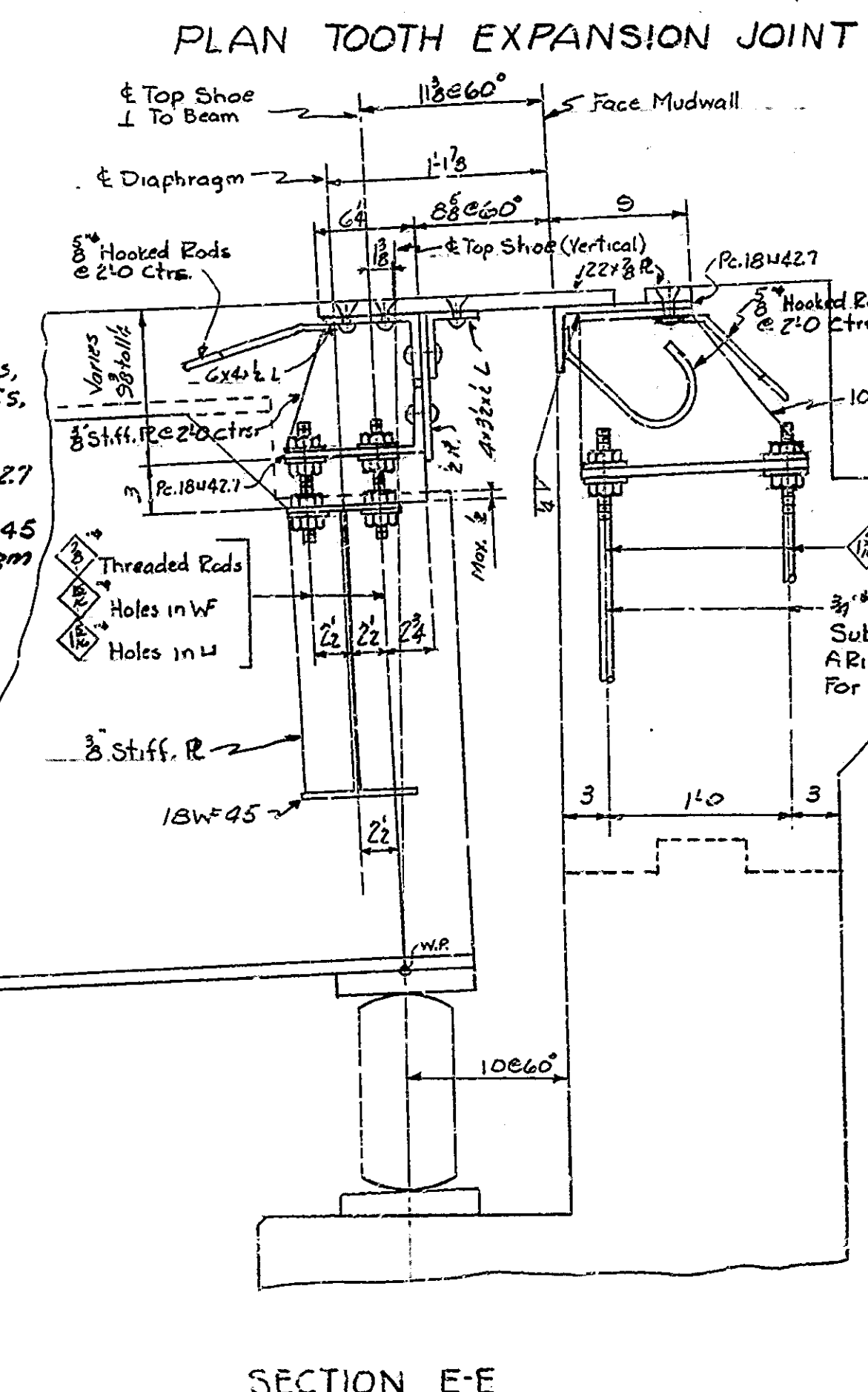
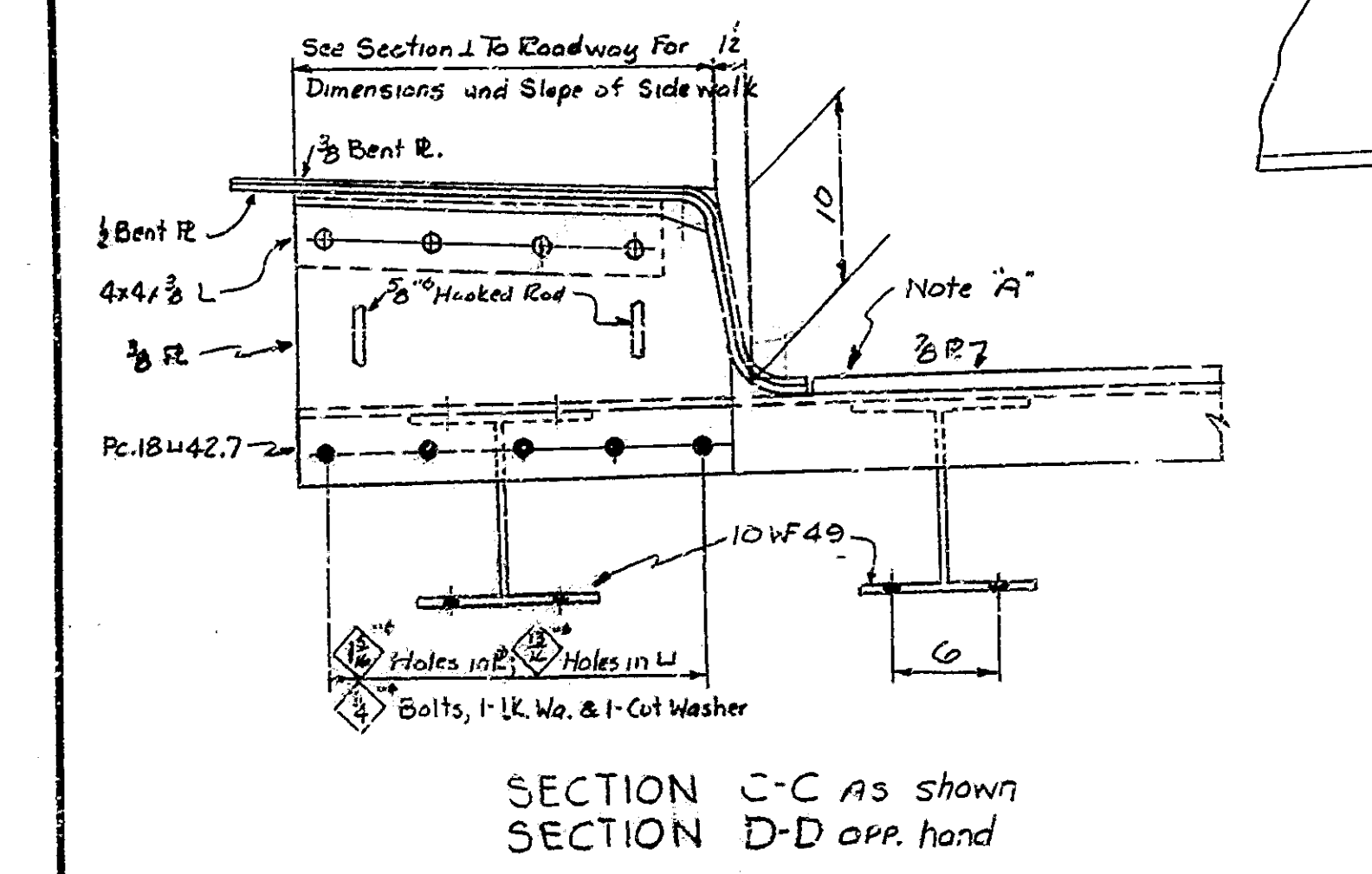
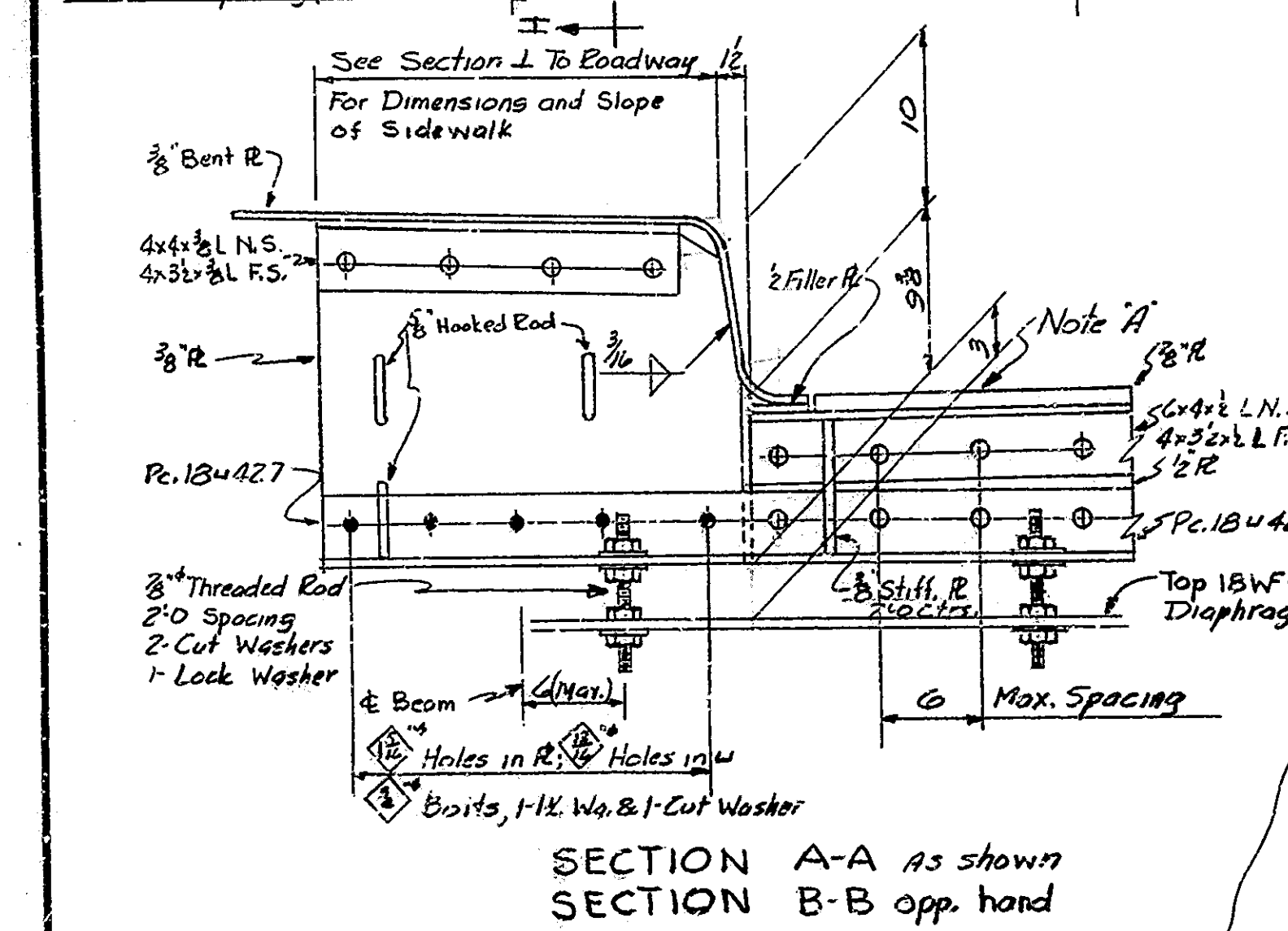
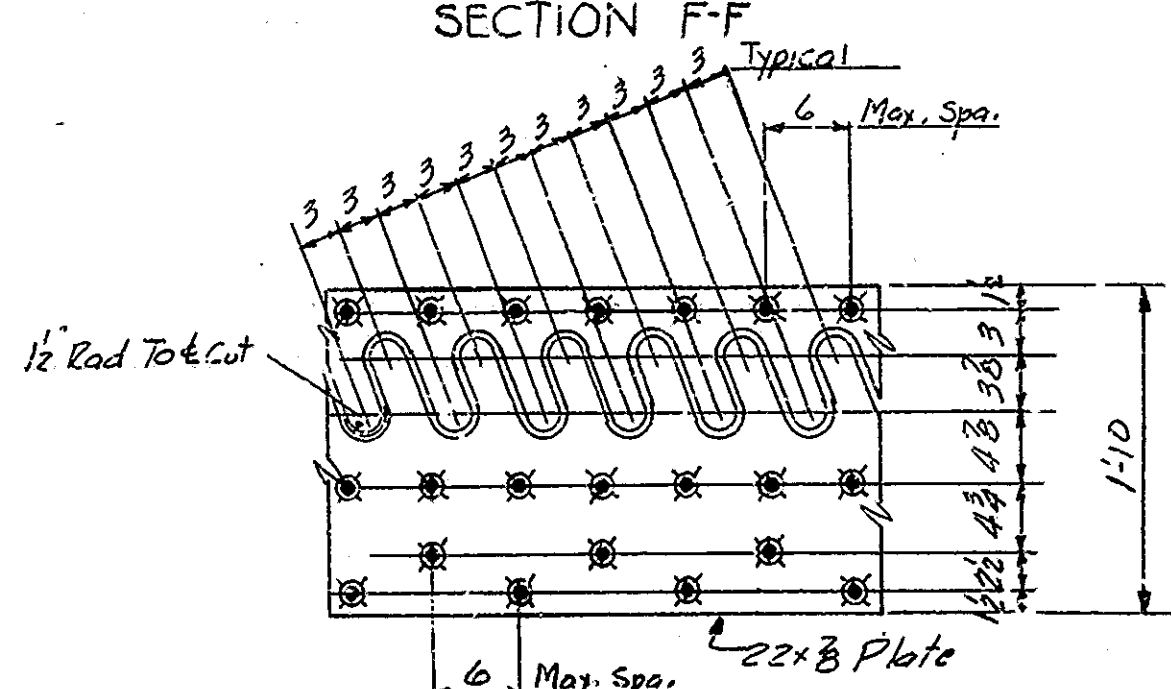
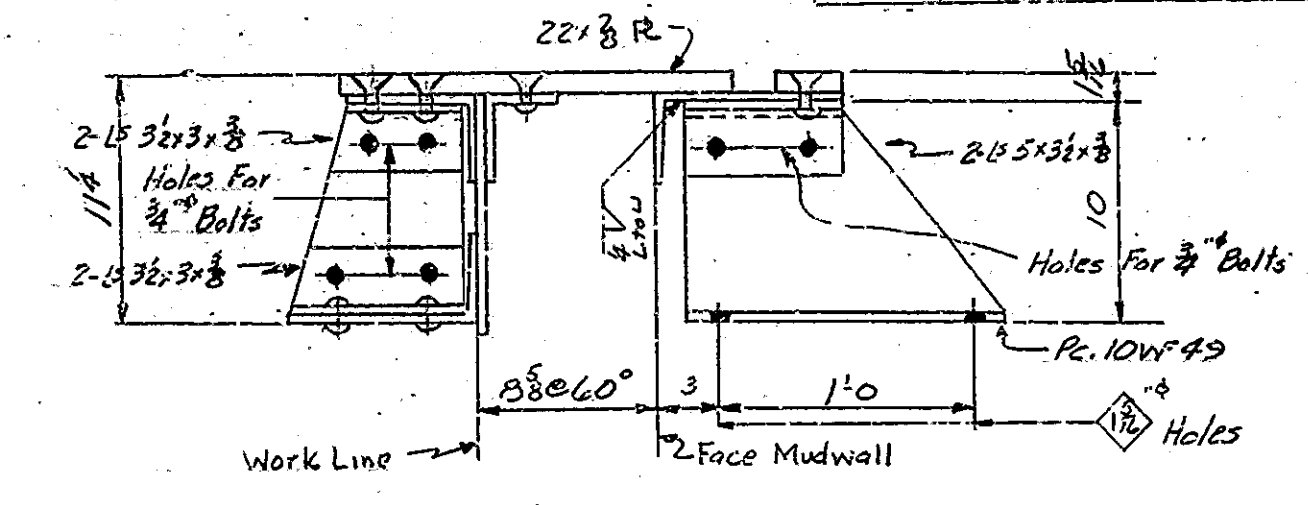
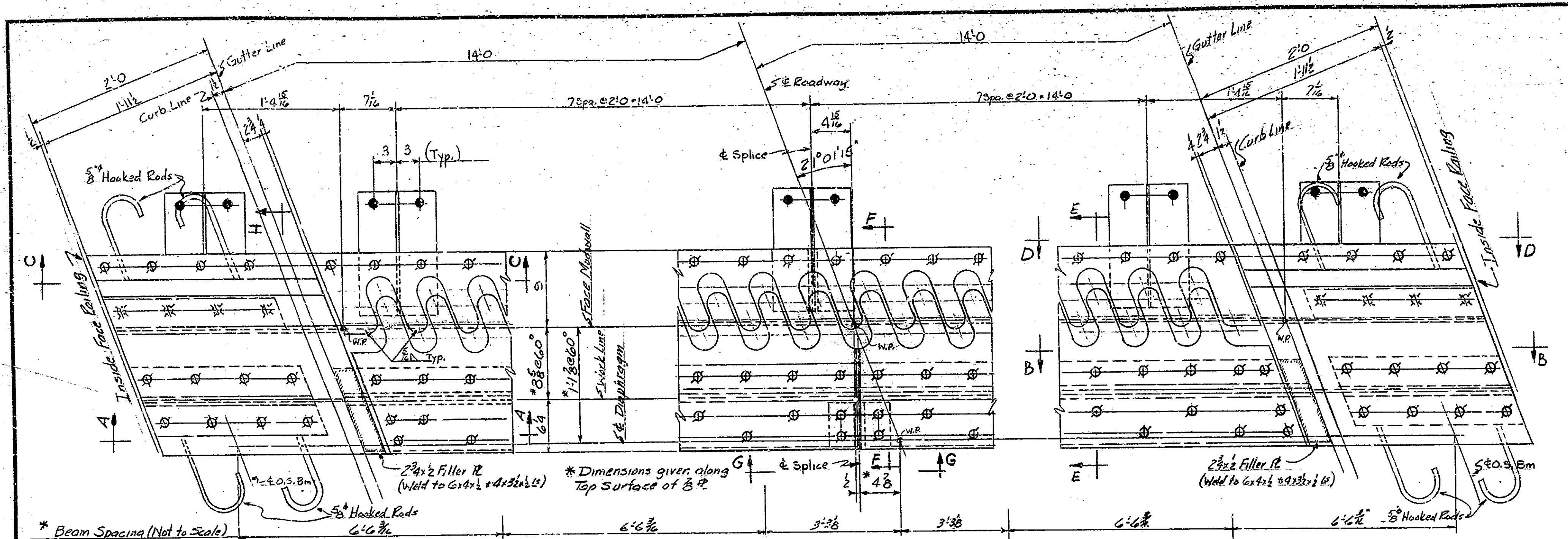
November 14, 1962

DRAWING: S-14 OF 20  
PROJECT: I-465-d (88)108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4403



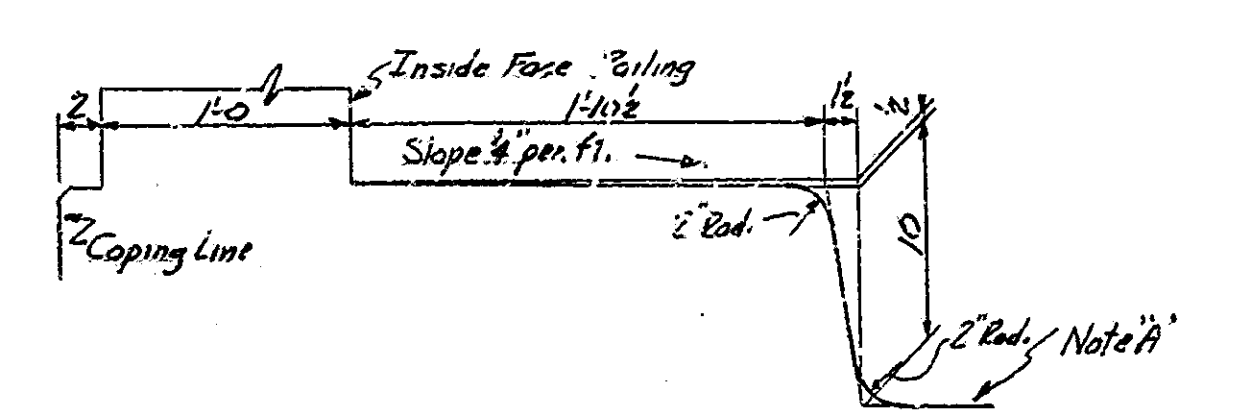
DESIGNED: RRH CKD: JAT  
DRAWN: JAT CKD: RRH  
TRACED: CKD

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	I-465-4 (88) 108	1963	35	84



Note:  
All dimensions to cuts are given to & cut. See Specifications Art. E1103.13 regarding burning of toothed plates. The toothed plates shall be matched marked to maintain the same relative position before and after cutting.

Notes:  
Rivets 3/4"  
Open Holes 1/2" unless noted.  
See Dwg. S11 For General Notes.  
Note 77  
See Bridge Standards M1 for Pavement Offsets.  
Expansion Joints are to be assembled in the shop in their relative erection positions and inspected for fit.  
Top of Expansion Joint to conform to Roadway Crown Curvature.  
If curves in plates and angles are flame cut they shall be ground smooth.



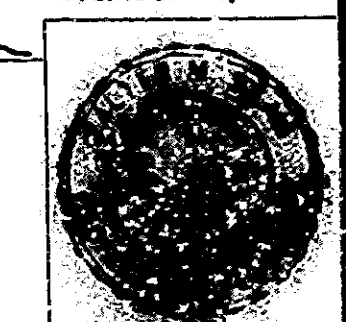
STEEL EXPANSION JOINT DETAILS  
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 1/2" = 1'-0" unless noted

November 14, 1962

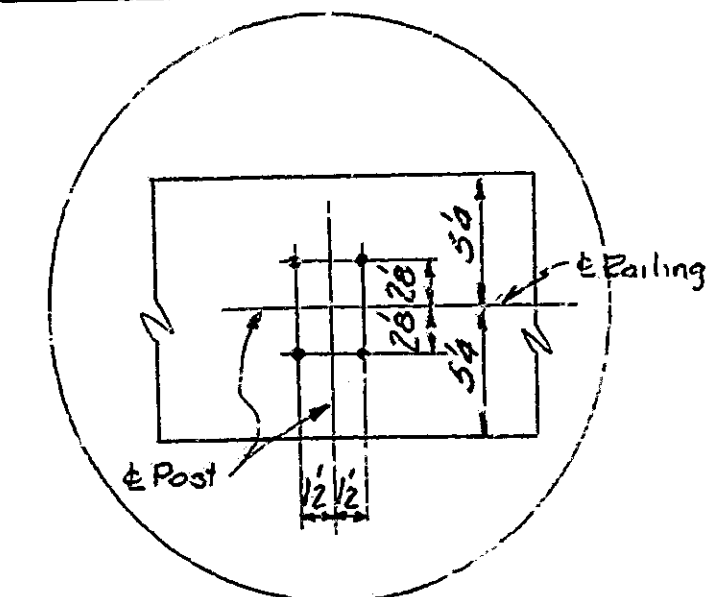
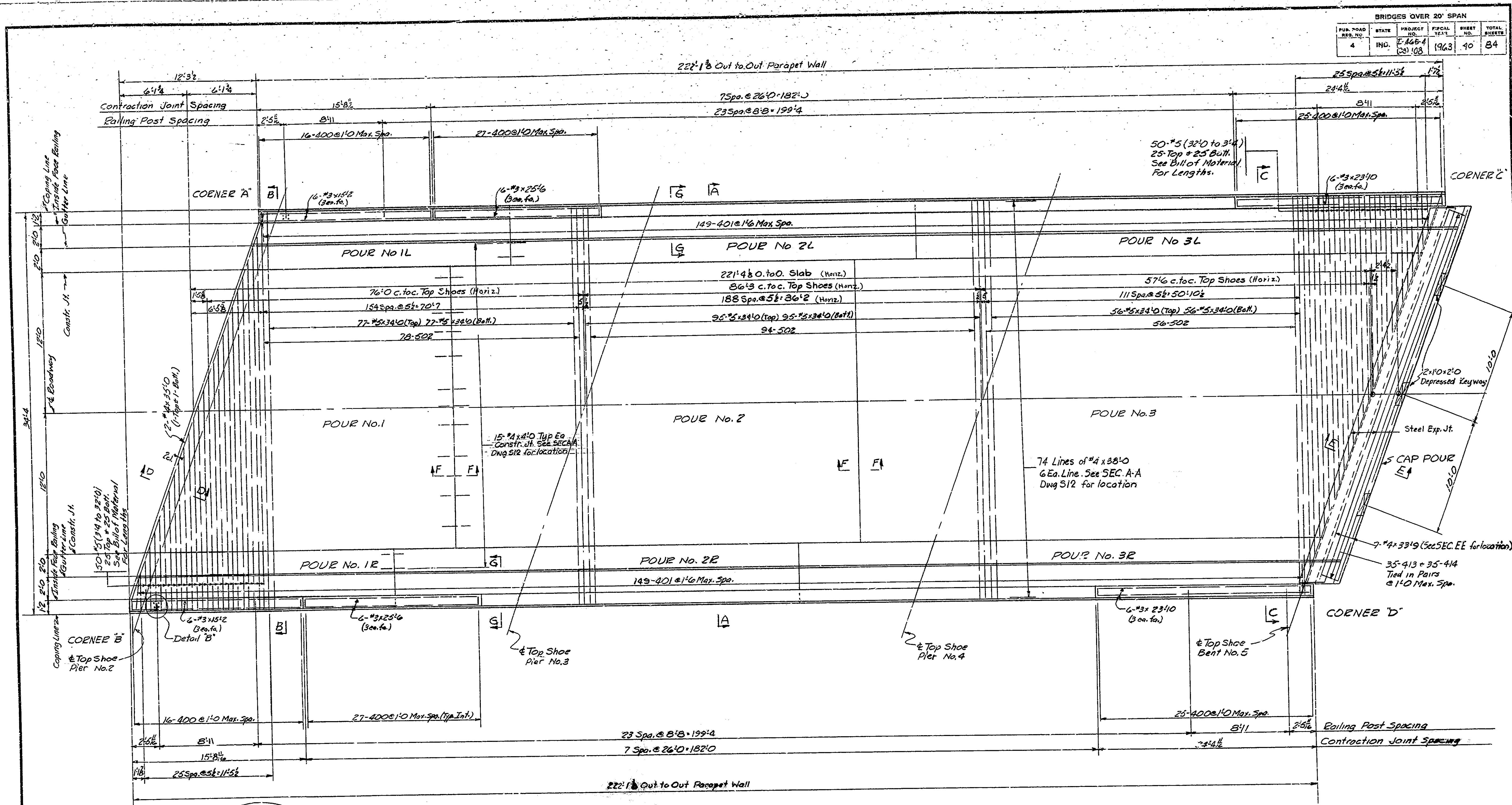
*Walter J. Ram*

DRAWING: S15 OF 20  
PROJECT: I-465-4 (88) 108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-4 (88) 108-4403



DESIGNED: JRT CKD: RRB  
DRAWN: JRT CKD: RRB  
TRACED: CKD

BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
REF. NO.		NO.	YEAR	NO.	SHEETS
4	IND.	E-465-4 (23) 108	1963	40	84



**DETAIL "B"**  
Setting Plan for Post  
Anchor Bolts  
Scale: 1/4" = 1'-0"

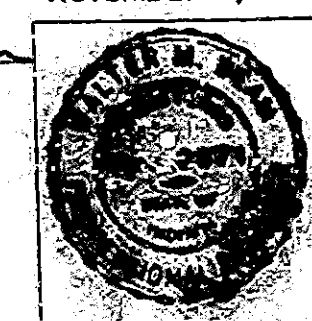
DESIGNED: W.F.W. C.Y.D. R.H.  
DRAWN: J.A.T. C.Y.D. R.H.  
TRACED: C.Y.D.

**Notes:**  
Sequence of pours to be made in order of pour numbers.  
Transverse construction joints are optional and pours may be continuous provided the pour terminates at a construction joint indicated on the plans.  
See Dwg. S17 For Sections A-A; B-B+C-C  
See Dwg. S19 For Pour Diagram \* Bill of Material  
See Dwg. S18 For Sections D-D; E-E; F-F+G-G  
Corner Details H-B+C+D

**SUPERSTRUCTURE DETAILS SPANS B, C & D**  
**STATE HIGHWAY DEPARTMENT OF INDIANA**

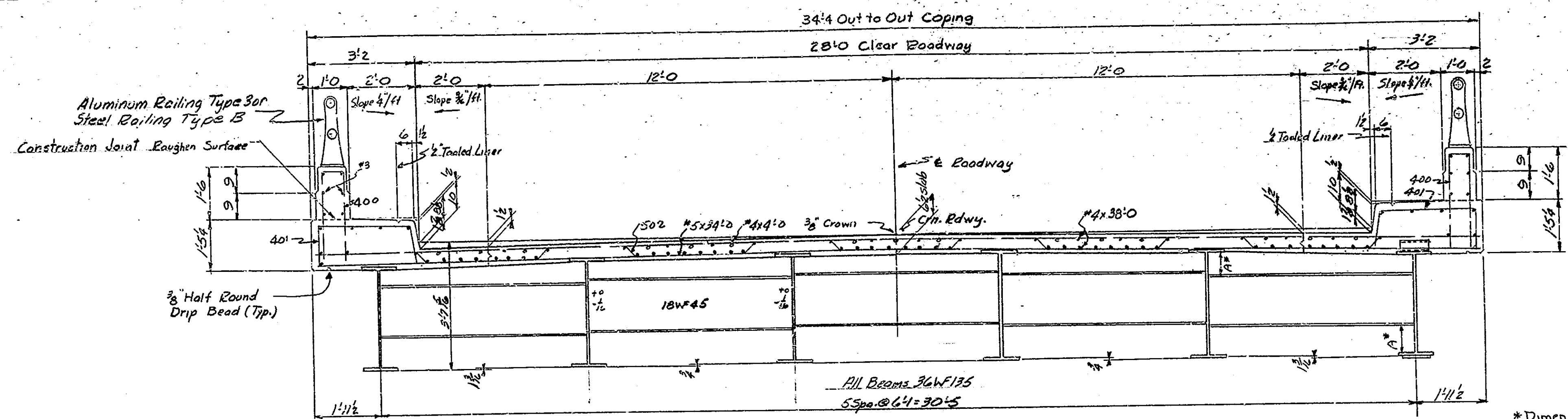
SCALE: 1/4" = 1'-0"

November 14, 1962  
*Walter J. Ryan*



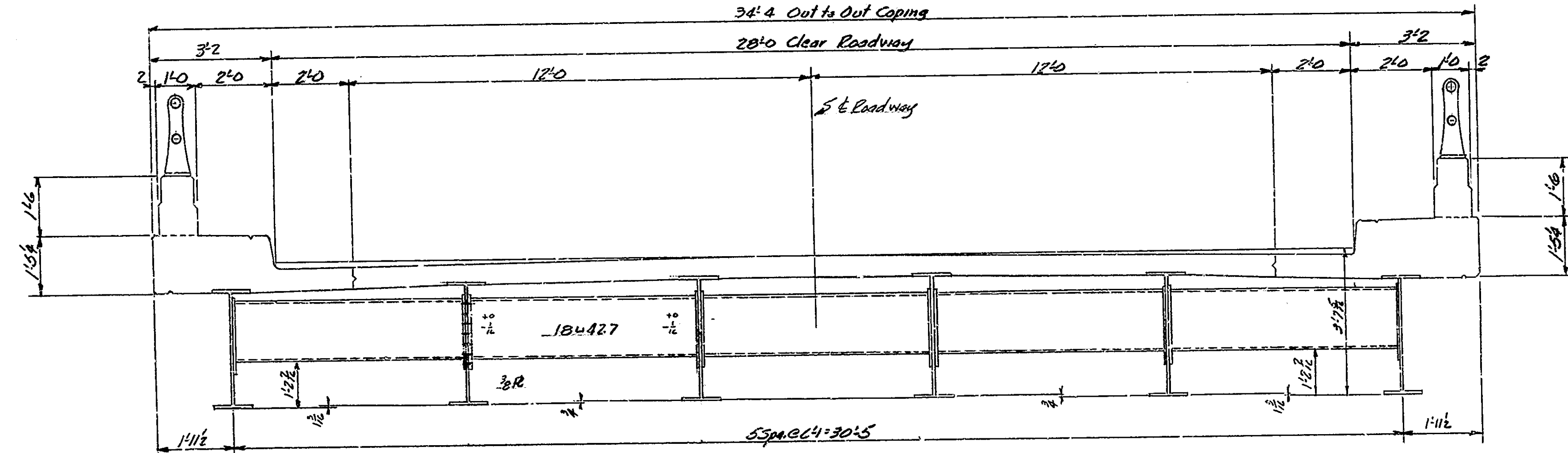
DRAWING: S16 OF 20  
PROJECT: I-465-4 (23) 108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4403

BRIDGES OVER 20' SPAN				
PUB. ROAD SRS. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	I-465-4 (88)108	1963	41

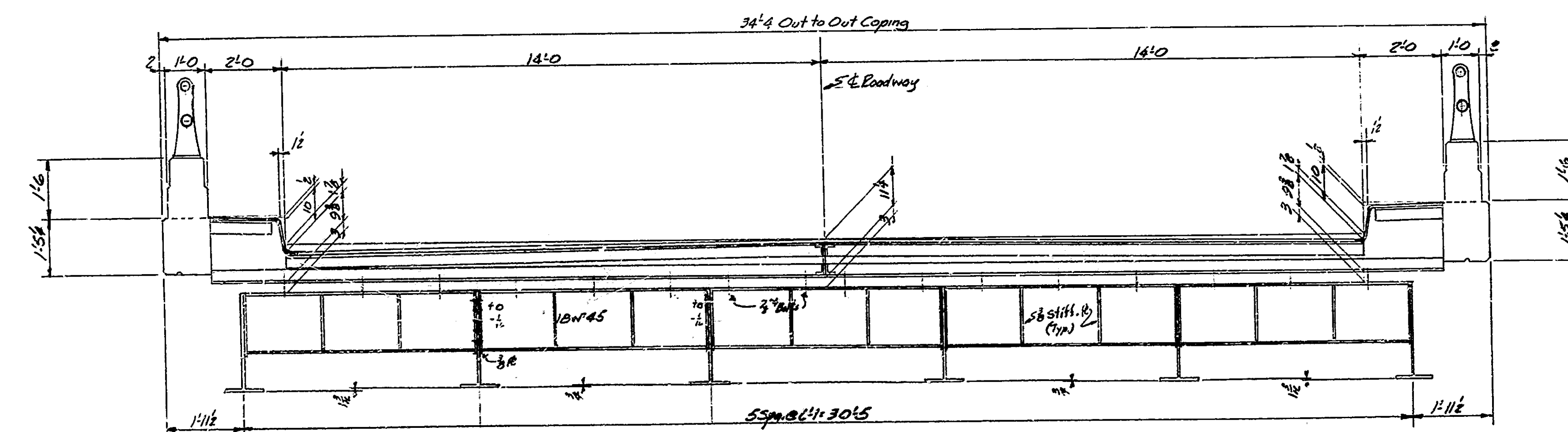


SECTION A-A  
34'4" Out to Out Coping  
28'0" Clear Roadway

\*Dimension "A" to be equal ±1"



SECTION B-B  
34'4" Out to Out Coping  
28'0" Clear Roadway



SECTION C-C  
34'4" Out to Out Coping  
28'0" Clear Roadway

Notes  
See Dwg. 516 For Location of Sections.  
For Reinforcing Bar Notes See Dn. Std. C1

SUPERSTRUCTURE DETAILS SPANS B-C+D  
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: - 1/2" = 1'-0"

November 14, 1962

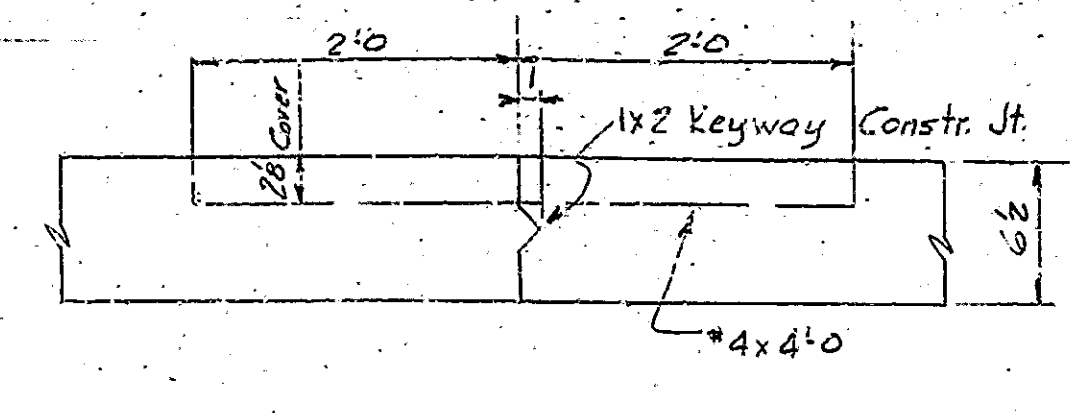
*Walter M. Bean*

DRAWING: 517 OF 20  
PROJECT: I-465-4 (88)108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4403

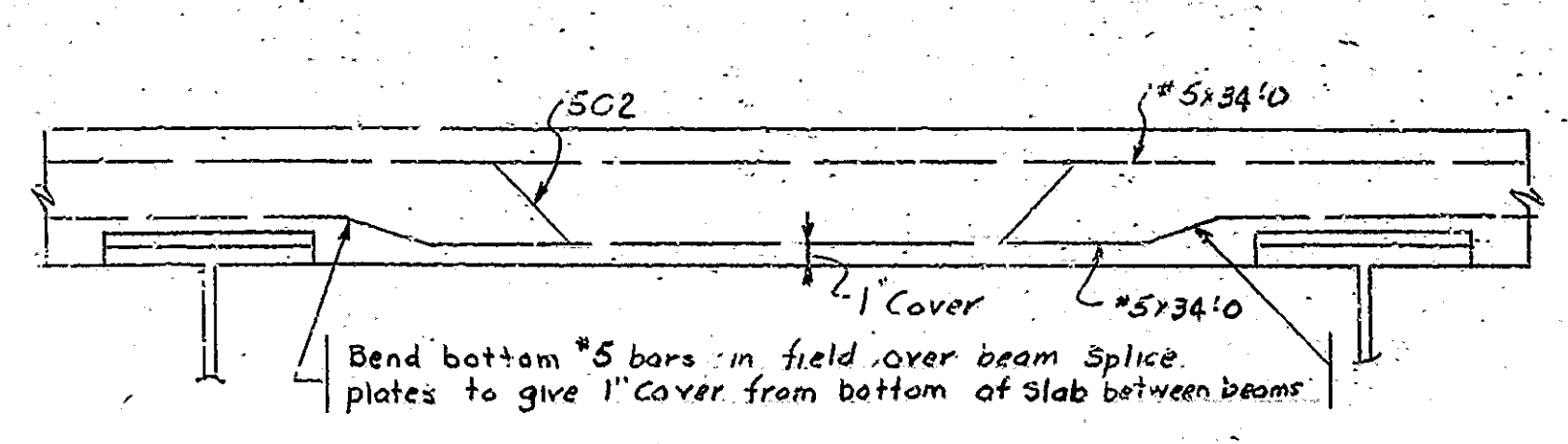


DESIGNED	REN	C.K.D.	WFW
DRAWN	JAT	C.K.D.	RRH
TRACED		C.K.D.	

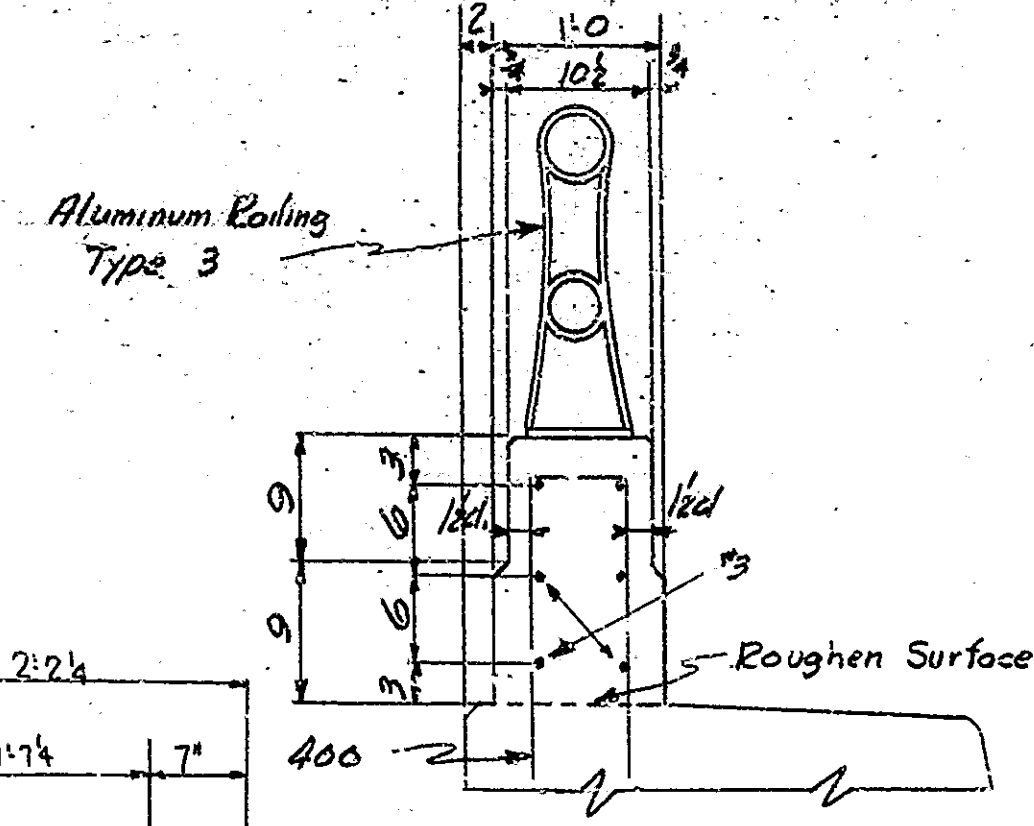
BRIDGES OVER 20' SPAN					
PUB. ROAD FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4(190)108	1963	42	BA



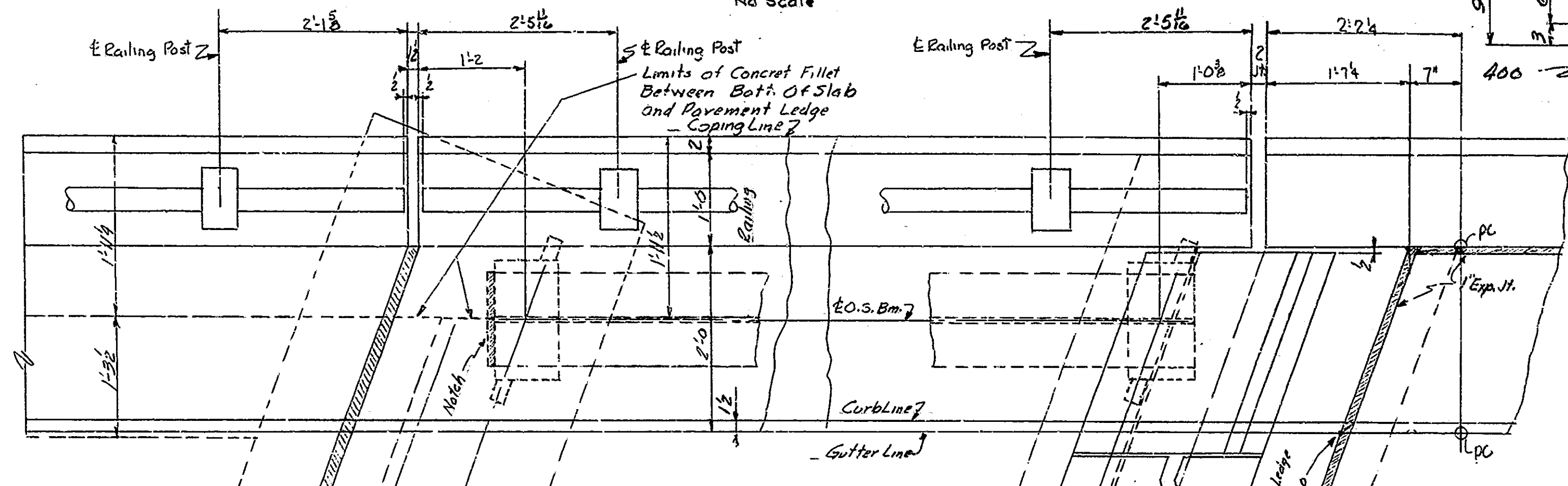
SECTION F-F  
Scale 1/2"=1'-0"  
See Dwg. S17 for Location



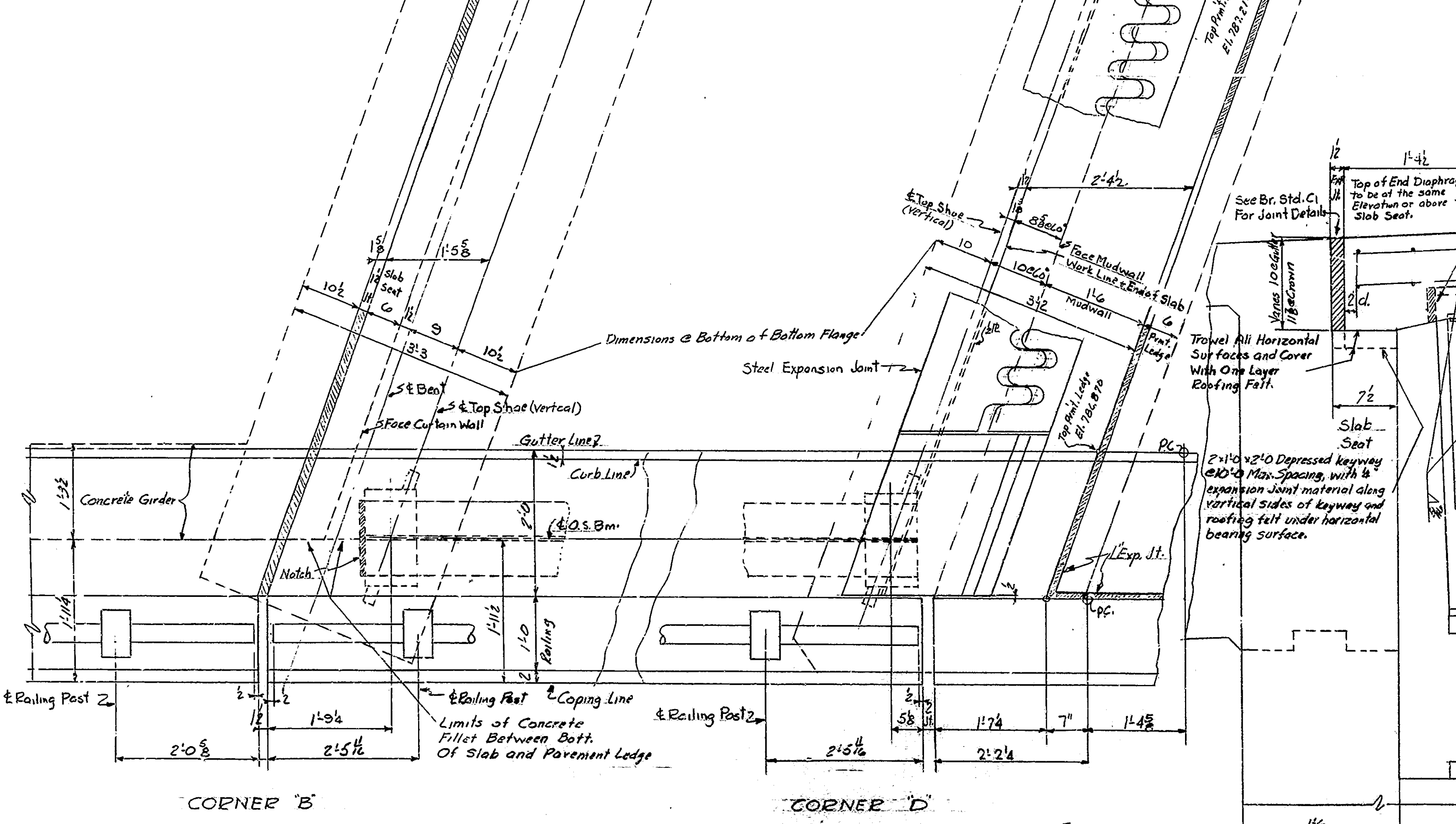
CORNER A FIELD BEND REQUIRED ON BOTTOM BARS OVER BEAM SPLICES CORNER C  
No Scale



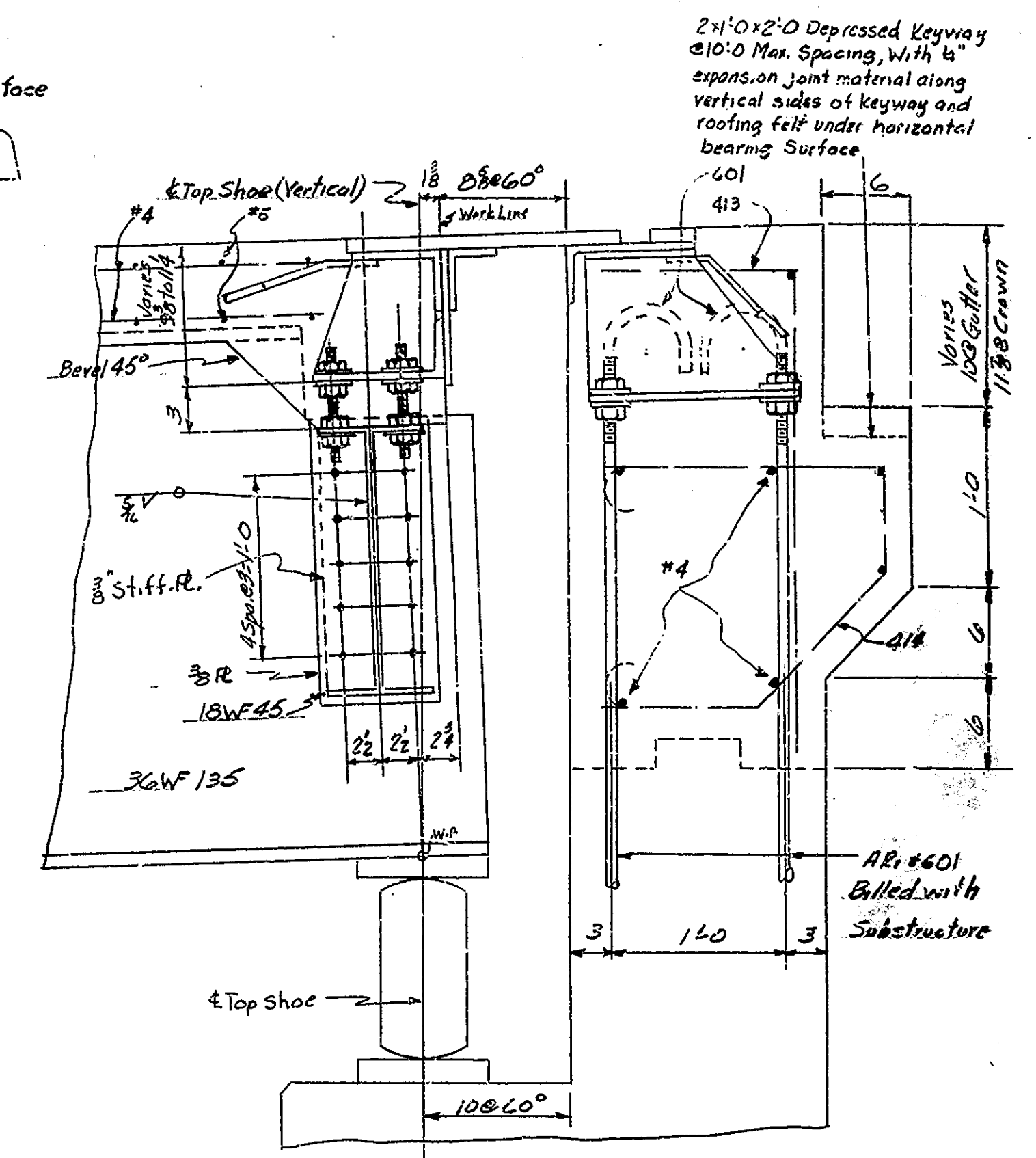
SECTION G-G  
Scale 1/2"=1'-0"



CORNER B

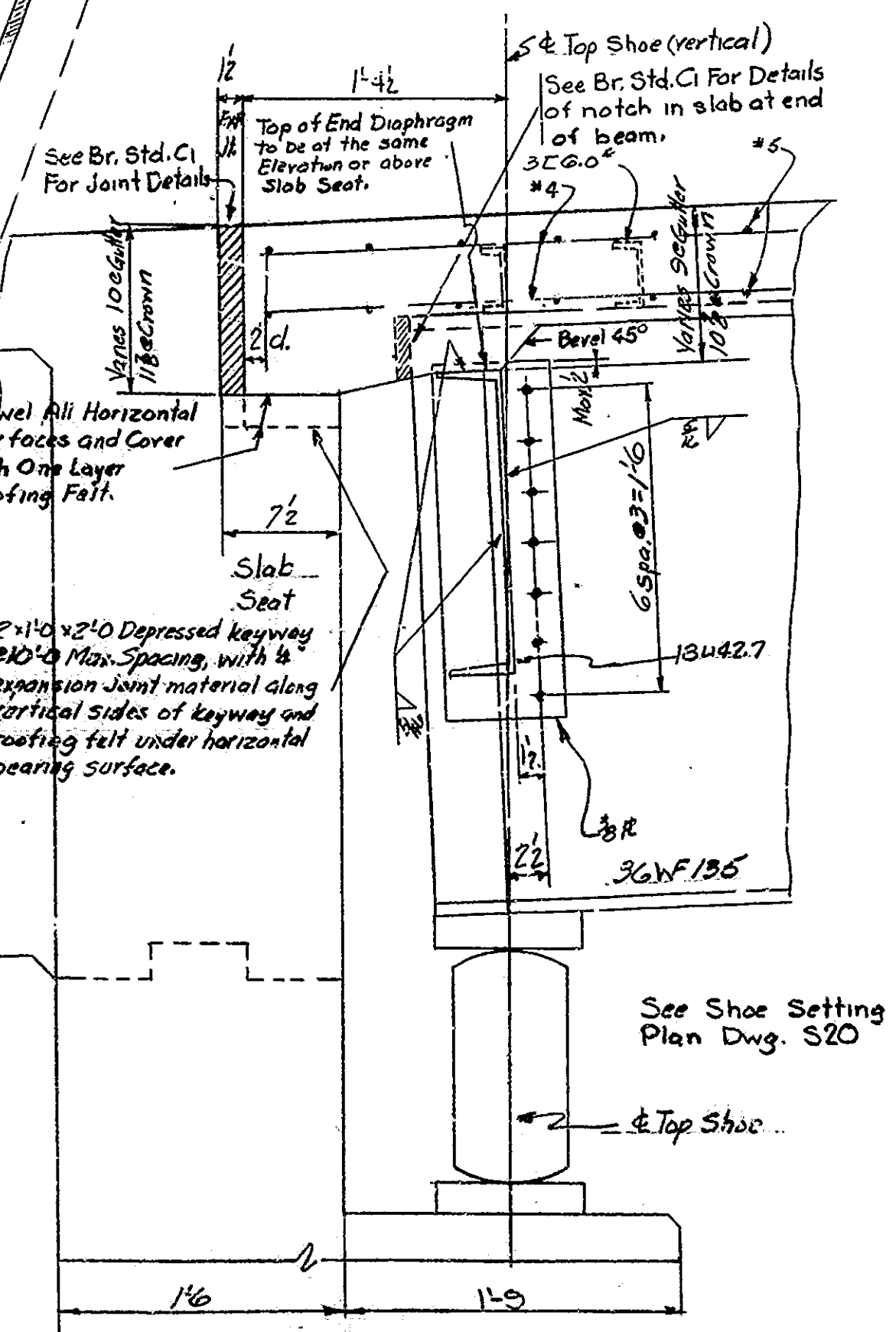


CORNER DETAILS  
Scale 1/2"=1'-0"



SECTION E-E  
Scale 1/2"=1'-0"

Notes:  
See Dwg. S16 for Location of Sections and Corners  
See Dwg. S15 for Expansion Joint Details  
See Dwg. S20 for Shoe Setting Plan.



SECTION D-D  
Scale 1/2"=1'-0"

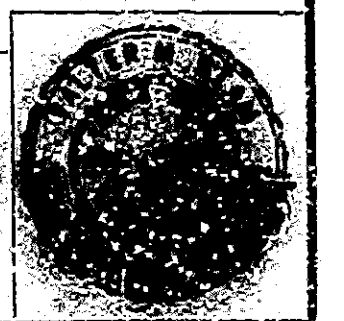
**SUPERSTRUCTURE DETAILS SPANS B-C&D**  
**STATE HIGHWAY DEPARTMENT OF INDIANA**

SCALE: AS NOTED

Walter M. Bean

November 14, 1962

DRAWING: S18 OF 20  
PROJECT: I-465-4(190)108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4403

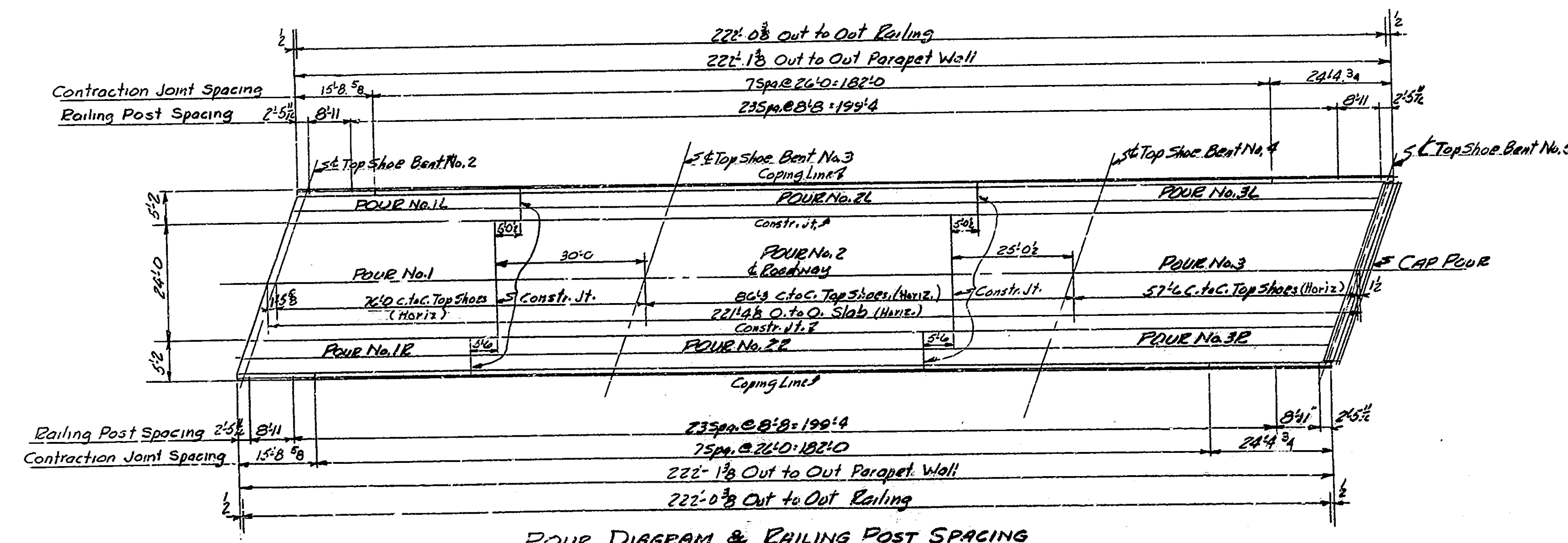
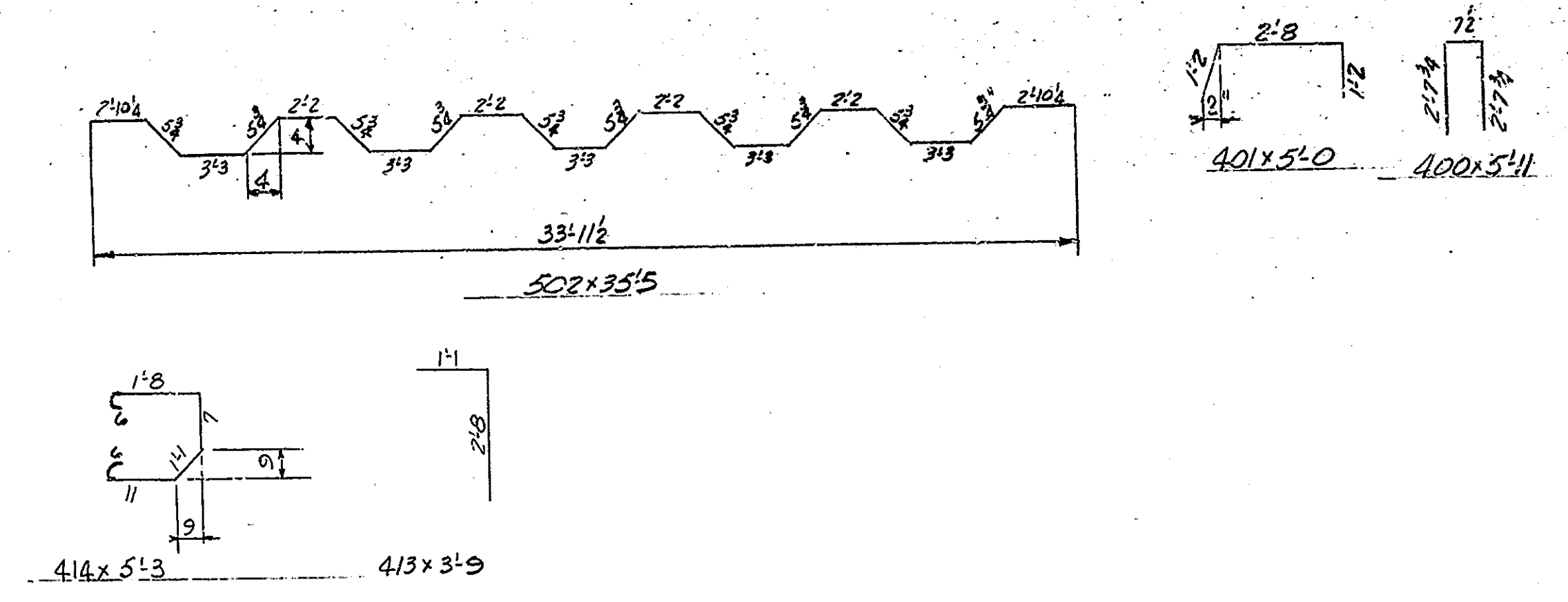


DESIGNED	R.H.	C.K.D.	M.E.W.
DRAWN	J.B.T.	C.K.D.	B.R.H.
TRACED		C.K.D.	

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	I-465-4 (88) 108	1963	43	84

BILL OF MATERIALS  
SPANS B-C&D

MARK OR SIZE	NO. OF BARS	LENGTH	WEIGHT	MARK OR SIZE	NO. OF BARS	LENGTH	WEIGHT
502	228	35'-5"					
#5	456	33'-0"					
	4	32'-0"					
	4	30'-10"					
	4	29'-7"					
	4	28'-5"					
	4	27'-3"					
	4	26'-0"					
	4	24'-0"					
	4	23'-8"					
	4	22'-6"					
	4	21'-3"					
	4	20'-1"					
	4	18'-10"					
	4	17'-8"					
	4	16'-6"					
	4	15'-3"					
	4	14'-1"					
	4	12'-11"					
	4	11'-8"					
	4	10'-6"					
	4	9'-4"					
	4	8'-1"					
	4	6'-11"					
	4	5'-9"					
	4	4'-6"					
	4	3'-4"					
	Total #5		26436				
400	460	5'-11"					
401	298	5'-0"					
413	35	3'-9"					
414	35	3'-9"					
#4	444	38'-0"					
#4	7	35'-0"					
#4	7	33'-9"					
#4	30	4'-0"					
	Total #4		14579				
#3	84	25'-6"					
#3	12	22'-10"					
#3	12	15'-2"					
	Total #3		281				
	Total STEEL		41996				
				CONCRETE			
				POUR No. 1			
				No. 1L			
				No. 1R			
				No. 2			
				No. 2L			
				No. 2R			
				No. 3			
				No. 3L			
				No. 3R			
				CAP POUR			
				Total Class "C" 202.5 CY			
				Railing Concrete Class "C" 23.1 CY			
				Railing Type 3 or "B"			
				= 44.1 LF			



Note: Sequence of pours to be made in order of Pour numbers. Transverse construction joints are optional and pours may be continuous provided the pour terminates at a construction joint indicated on the plan.

NOTE: See Br. Std. C1 for reinforcing bar notes.

SUPERSTRUCTURE DETAILS SPANS B-C&D  
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 3/8" = 1'-0" Noted  
November 14, 1962  
DRAWING: S19 OF 20  
PROJECT: I-465-4 (88) 108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-2203

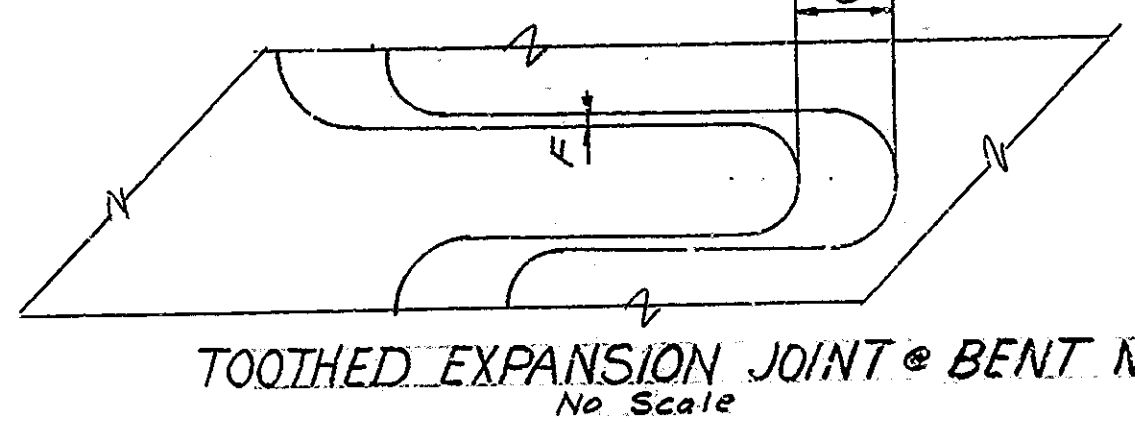
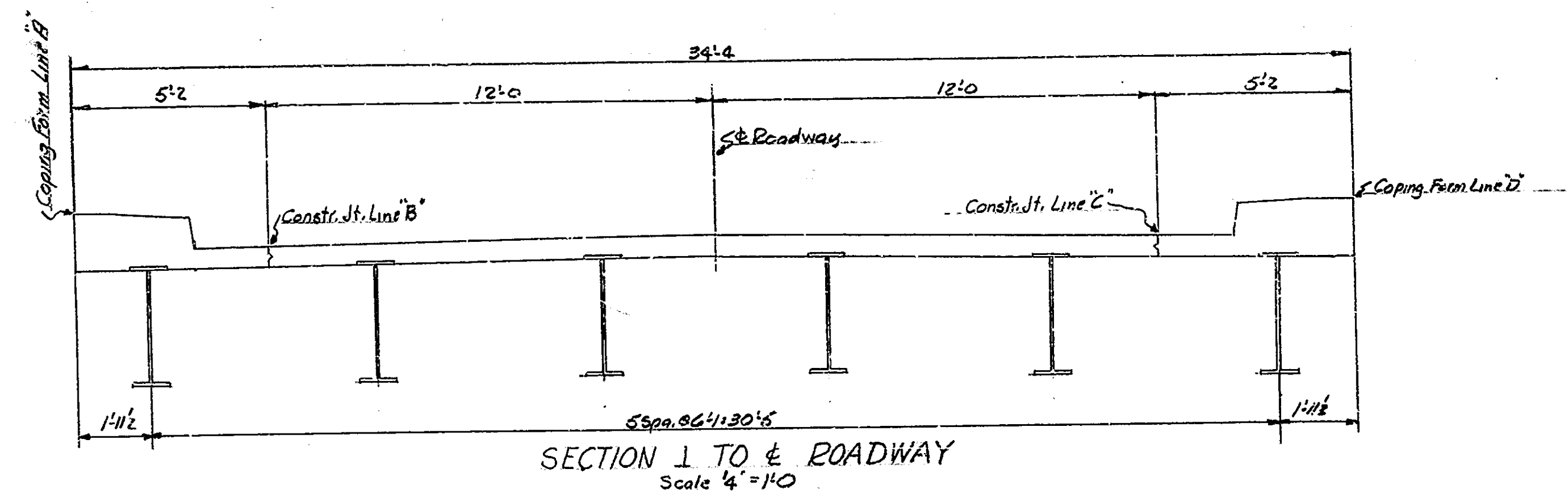
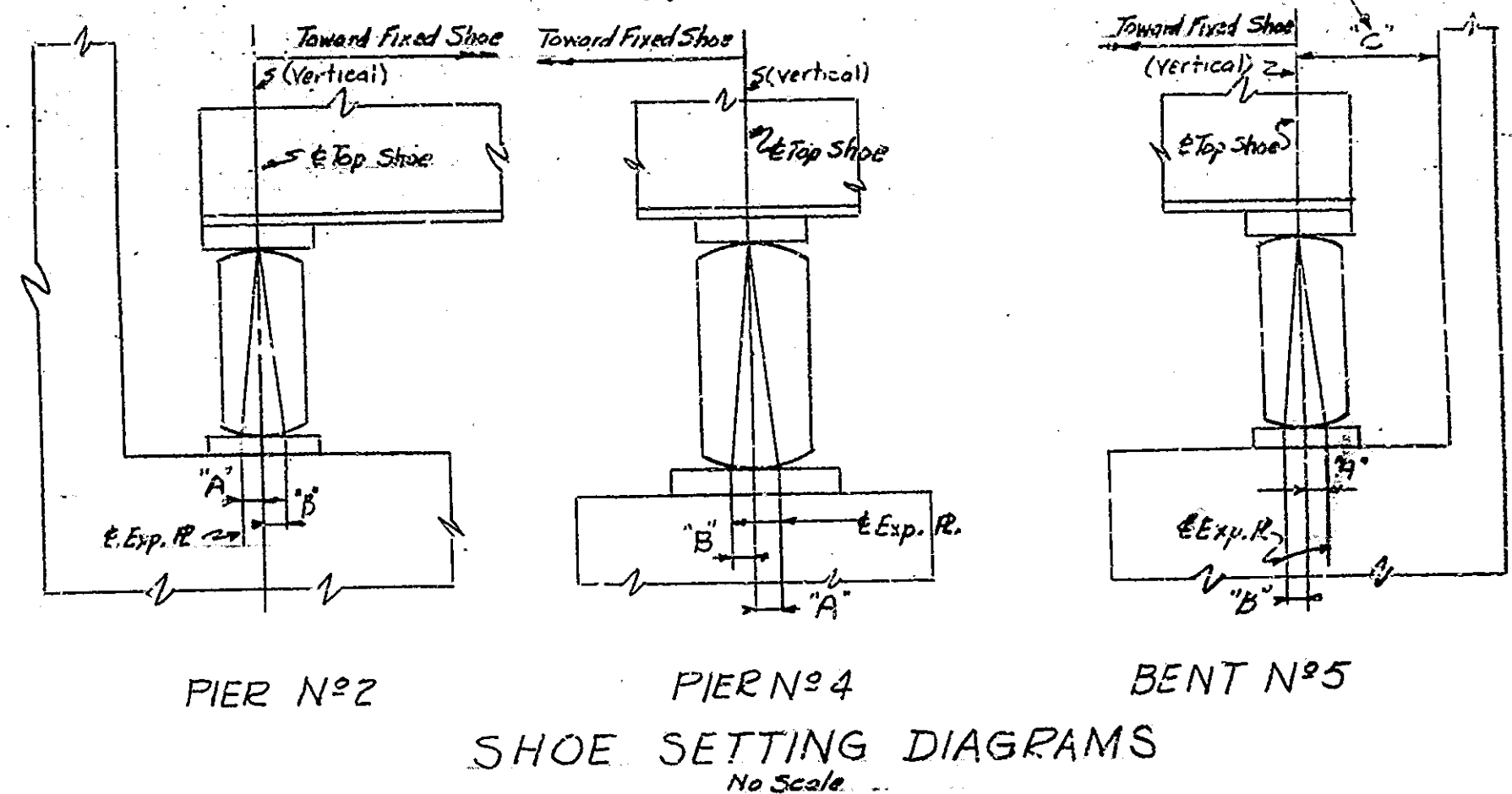


DESIGNED: RHL CKD: JFW  
DRAWN: JBT CKD: RAG  
TRACED: CKD

BRIDGES OVER 50' SPAN					
PUB. ROAD DES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (98) 108	1943	44	84

### TABLE OF ELEVATIONS

POINT	LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	Elev. Top of Casing Form	780.455	780.640	781.300	781.750	782.185	782.600	783.000	783.395	783.720	784.050	784.455	784.860	785.250	785.630	785.995	786.345	786.690	787.015	787.275	787.620	787.965	788.290	788.610	788.875
A	Elev. Top of Outside Beam																								
A	Dist. Top of Bm. to Top of Casing Form																								
B	Elev. Top of Screed	779.520	779.305	780.370	780.820	781.255	781.670	782.075	782.470	782.795	783.125	783.530	783.935	784.330	784.710	785.080	785.450	785.790	786.060	786.360	786.710	787.055	787.365	787.700	787.970
B	Elev. Top of Beam																								
B	Dist. Top of Bm. to Top of Screed																								
C	Elev. Top of Screed	779.100	779.485	779.360	780.415	780.855	781.215	781.685	782.030	782.415	782.750	783.165	783.575	783.975	784.365	784.735	785.095	785.445	785.735	786.040	786.395	786.745	787.080	787.405	787.680
C	Elev. Top of Beam																								
C	Dist. Top of Bm. to Top of Screed																								
D	Elev. Top of Casing Form	779.850	780.240	780.715	781.170	781.610	782.035	782.445	782.850	783.240	783.615	783.980	784.340	784.745	785.120	785.505	785.865	786.220	786.505	786.815	787.170	787.570	787.860	788.185	788.460
D	Elev. Top of Outside Beam																								
D	Dist. Top of Bm. to Top of Casing Form																								

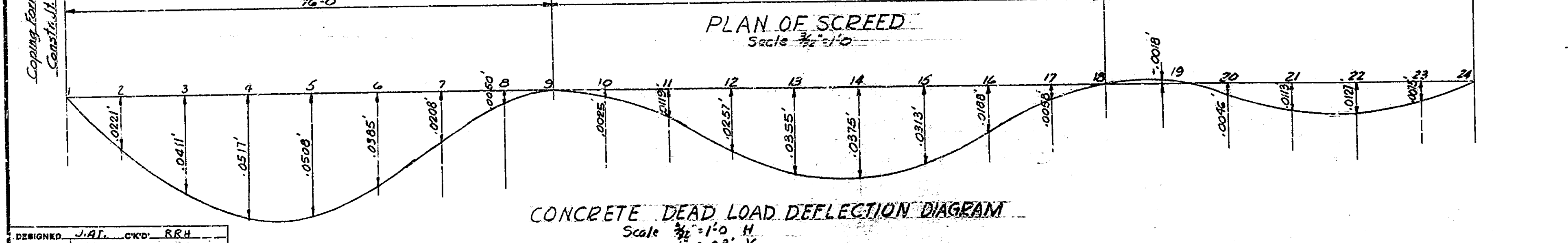
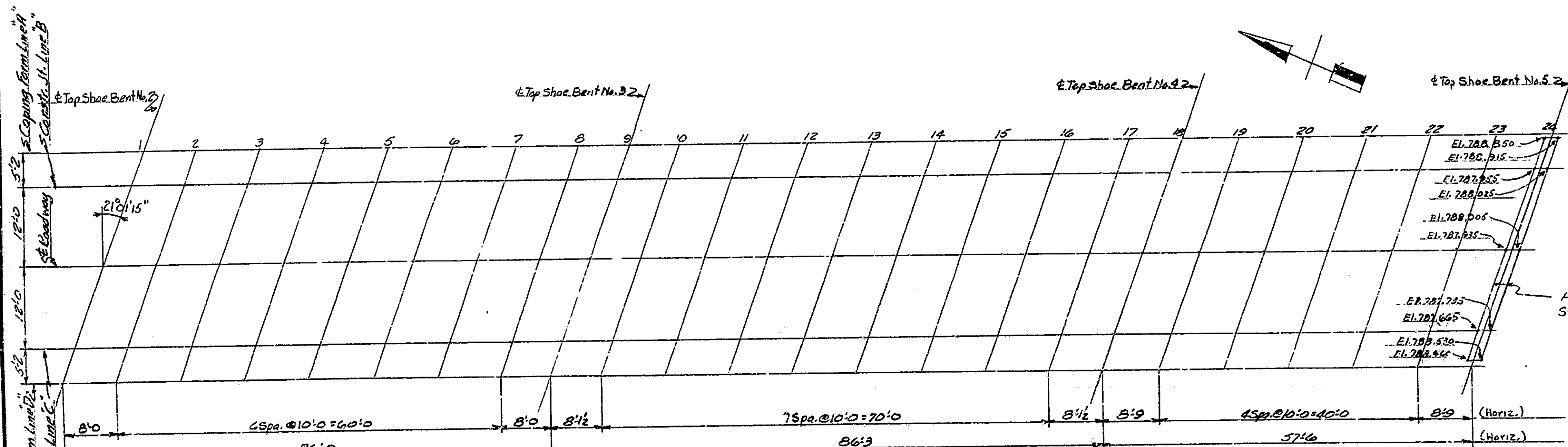


### TABLE II

Temperature	0°	20°	40°	60°	80°	100°	120°
Dimension 'D' @ Bent No 5	2 1/8"	2 3/8"	2 1/2"	2 1/4"	2 1/4"	2 1/4"	2 1/4"
Dimension 'C' @ Bent No 5	10 1/2"	10 3/8"	10 1/4"	10	9 3/4"	9 3/4"	9 3/4"

**NOTES**  
PURPOSE  
"Plan of Screeds" shows location of screeds.  
"Table of Elevations" shows data for setting screeds and coping forms so that slab and coping will be at the final elevations after all concrete has been poured.  
"Table I" shows data for setting expansion plates.  
"Table II" shows data for setting toothed expansion joint.

- GENERAL PROCEDURE**
- After all rivets and welding have been completed, adjust the superstructure longitudinally so that dimension "C" from the Top Shoe to the face of the mudwall at Bent 5 is the dim. shown in Table II.
  - With the superstructure in the adjusted position called for in No. 1, weld the Fixed Shoe to the Anchor Plate, A.P.I.
  - Adjust the expansion plate under each expansion shoe in accordance with dimension "A" or "B" in Table I for the prevailing temperature. Note that dimension "A" is always the distance from a vertical line through the Top Shoe in a direction away from the Fixed Shoe.
  - Weld Expansion Plate to Anchor Plate, A.P.I.
  - Set the steel expansion joint and adjust it to elevation using double nuts on anchor rods and threaded rods on the diaphragms.
  - Adjust the steel expansion joint horizontally so that the opening "F" between the teeth are equal and longitudinally so that opening "D" corresponds to the values "D" in Table II for the prevailing temperature.
  - After the shoes are set, take elevations at all screed points on top of the adjacent beam. Enter these elevations in the "TABLE OF ELEVATIONS." Subtract these elevations from the tabulated elevations and use the resulting dimensions as the height for setting the coping or screed form above this point. This dimension remains constant regardless of how much or in what order the concrete is poured. Do not set coping or screed forms by leveling.
  - No concrete is to be poured until the above operations are completed.



SCREEDS

**STATE HIGHWAY DEPARTMENT OF INDIANA**

SCALE: As Noted

November 14, 1942

Walter J. Bacon

DRAWING: S20 OF 20  
PROJECT: I-465-4 (98) 108  
BRIDGE CONTRACT NO. 5926  
BRIDGE FILE: I-465-108-4403

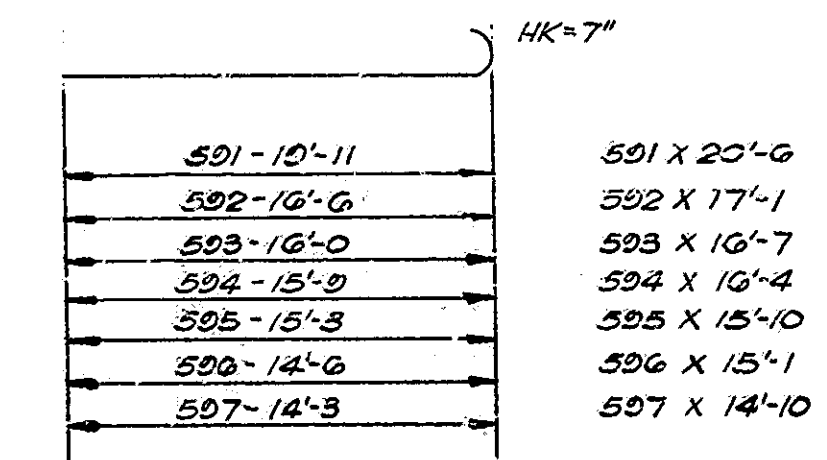
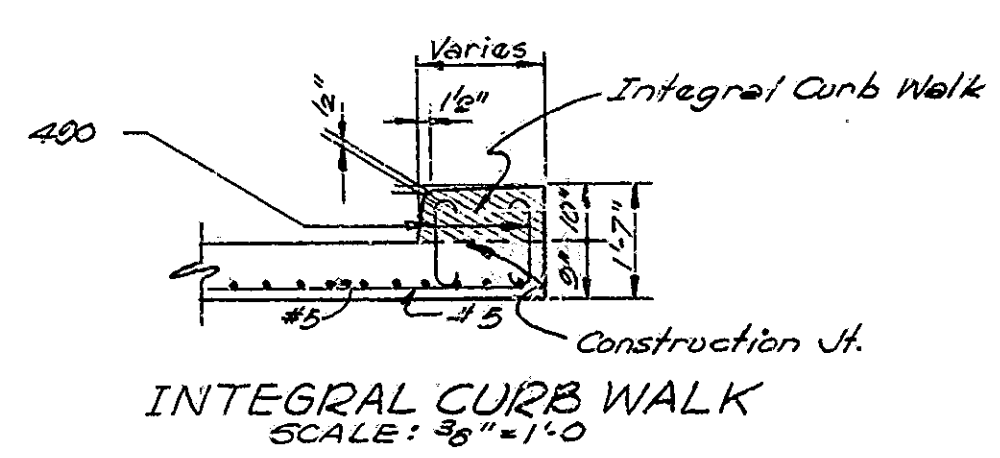
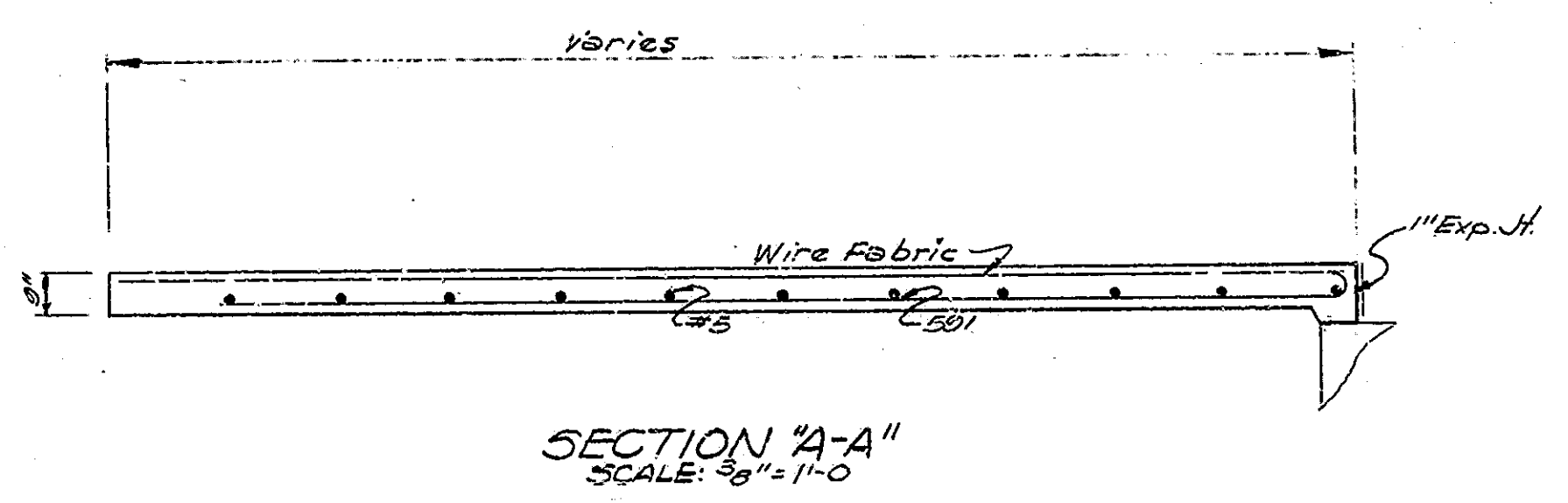
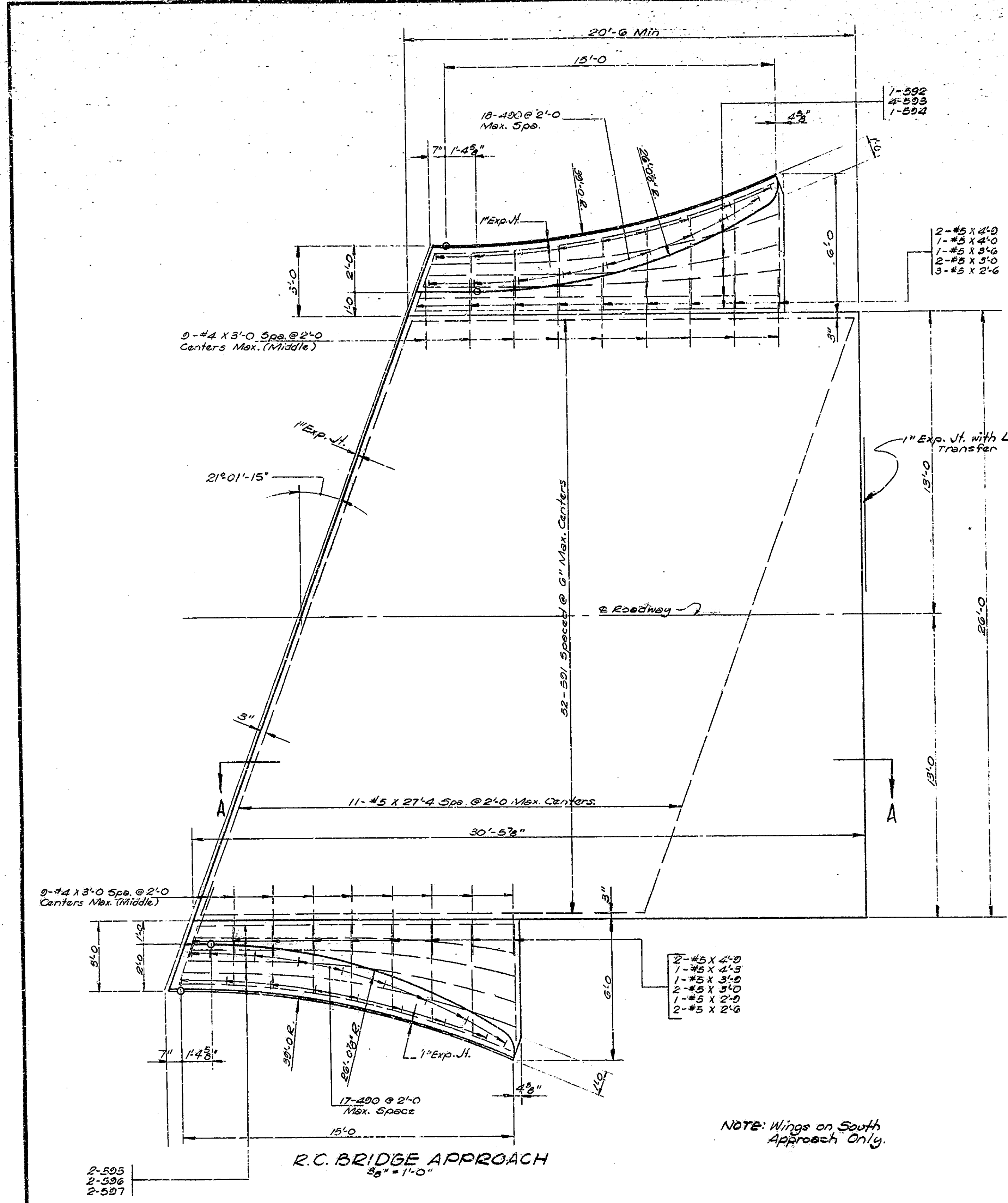
DESIGNED: J.A.T. C.K.D. R.R.H.  
DRAWN: J.A.T. C.K.D. R.R.H.  
TRACED: C.K.D.



BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	I-465-4	1963	45	84
		99108			

RC BRIDGE APPROACH  
BILL OF MATERIALS  
BENT N<sup>o</sup> 1 & BENT N<sup>o</sup> 5

MARK OR SIZE	N <sup>o</sup> OF BAR	LENGTH (FT.)	WEIGHT (LBS.)
#01	104	20'-6"	
#02	1	17'-1"	
#03	4	16'-7"	
#04	2	16'-4"	
#05	2	15'-10"	
#06	2	15'-1"	
#07	2	14'-10"	
#5	22	27'-4"	
#5	4	4'-0"	
#5	1	4'-3"	
#5	1	4'-0"	
#5	1	3'-0"	
#5	1	3'-6"	
#5	4	3'-0"	
#5	1	2'-0"	
#5	5	2'-6"	
TOTAL #5			3115
490	35	2'-4"	
#4	18	3'-0"	
TOTAL #4			91
TOTAL STEEL			3206
CONCRETE			
RC BR APPROACH			161.5 CB
INTEGRAL CURB WALK			1.7 CB
C1' Conc.			1.7 CB



APPROXIMATE LOCATION  
OF SIGNS AND BARRICADES

XW-3	Intersection with Hanna Ave.
XM-8	Intersection with Hanna Ave.
XW-3	Sta. 2+50
XM-2	Sta. 7+25
B-Barricade	Sta. 7+50
XW-3 & B-Barricade	Public Rd. Lt. @ Sta. 10+70
B-Barricade	Sta. 16+00
XW-3 & B-Barricade	Rebel Run Lt. @ Sta. 24+30
Barrier	Private Dr. Rt. @ Sta. 26+00
B-Barricade	Sta. 26+50
XW-1 & XW-G	Meridex Dr. Lt. @ Sta. 27+00
XW-G	Sta. 31+00
XM-2	Sta. 31+00
XW-3	Sta. 31+50
XW-1	Sta. 36+00
XW-3	@ Thompson Rd.
XM-8	Sta. 32+00

Barriers or Excavations as required.

Notes:  
See Br. Std. C1 for Reinforcing Bar Notes.  
See Dwg. S2 for General Plan.  
See Br. Std. M3 for Additional details.

RC BRIDGE APPROACH DETAILS  
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED

November 14, 1962

*Walter J. Bean*

DRAWING OF  
PROJECT: I-465-4 (98) 108  
BRIDGE CONTRACT NO. 5326  
BRIDGE FILE: I-465-125-4403

DESIGNED: *[Signature]* CKD R.A.G.  
DRAWN: *[Signature]* CKD R.A.G.  
TRACED: CKD

