

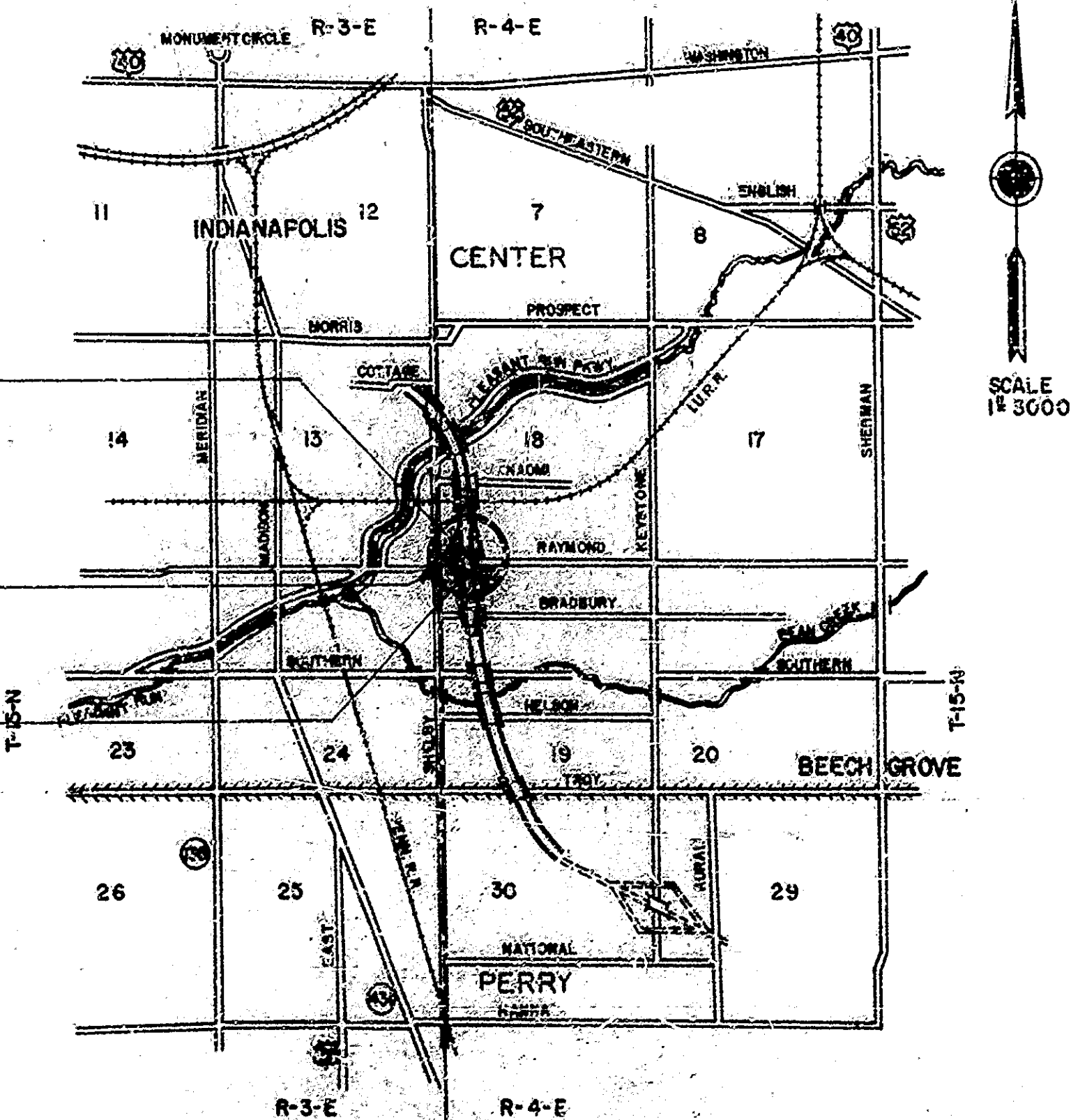
INDEX						
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION	CONTRACT NO.
I-65-3(66)109	I-65-110-5694	CONT. COMP. STEEL BM. BRIDGES	2 SPANS 72'-6" 75'-6"	I-65 OVER PAYMOND ST.	262+60.88 TO 10+00.68 PROP. RAYMOND ST.	8-8377
SHEET NO.	SHEET DESIGNATION	SUBJECT			B.P.S. APPROVAL	
1	ONE SHEET	INDEX AND TITLE SHEETS				
2	BRIDGE SHEET	SOIL BORINGS LAYOUT				
3	S1	GENERAL PLAN				
4	S2	BENTS NO. 1 S.B. & NO. 3 N.B. BENTS NO. 3 S.B. & NO. 1 N.B.				
5	S3	WINGWALL DETAILS				
6	S4	BENT NO. 2 S.B. & N.B.				
7	S5	FRAMING PLAN				
8	S6	SHOE & SPLICE DETAILS				
9	S7	STEEL BEAM DETAILS				
10	S8	SUPERSTRUCTURE DETAILS				
11	S9	SUPERSTRUCTURE DETAILS				
12	S10	SCREED DATA				
13	S11	SUMMARY				
14	ONE SHEET	SUMMARY				
12A	S10A	DETAILS - C.T.I.P.C. OVERLAY AND EXP. JT. TYPE B50				

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS FOR SPANS OVER 20 FEET ON INTERSTATE ROAD NO. 65 SECTION 3 I-PROJECT NO. 65-3 (66)109 PE PHASE 1 (81)109 PE FINAL PHASE (32)109 R/W (163)109 CONSTR. OVER RAYMOND STREET

BEGINNING AT A POINT 102.26' SOUTH OF THE NORTH LINE OF SECTION 19, T-15-N, R-4-E AND RUNNING IN A NORTHERLY DIRECTION A DISTANCE OF 151.50' TO A POINT 49.24' NORTH OF THE NORTH LINE OF SECTION 19, T-15-N, R-4-E, IN CENTER TOWNSHIP, MARION COUNTY.

ROADWAY LENGTH: 0.000MI.
BRIDGE LENGTH: 0.030MI.
TOTAL LENGTH: 0.030MI. MAX GRADE=1.04%



END STRUCTURE LIMITS STA. 263+36.13

STRUCTURE I-65-110-5694
2 SPANS 72'-6" 75'-6"
SKEW 1° 22' 59" RT.
CONTINUOUS COMPOSITE STEEL BEAM BRIDGES
@ STA. 262+60.88 I-65
STA. 10+00.68 @ PROPOSED RAYMOND ST.

BEGIN STRUCTURE LIMITS STA. 261+86.63

INDEX CONTINUED STANDARD DRAWINGS

SHEET NO.	SHEET DESIGNATION	SUBJECT	B.P.S. APPROVAL	REVISED
12	BRIDGE SHEET	STANDARD MISCELLANEOUS DETAILS		1-21-72
17A	BRIDGE SHEET	STANDARD MISCELLANEOUS DETAILS		6-16-72
18	BRIDGE SHEET	CASTING DETAILS ROADWAY GRAINS		R-1-1-72
19	BRIDGE SHEET	ROADWAY DRAIN DETAIL DETAILS		
21	BRIDGE SHEET	TYPOGRAPHY CHANGES		
22	BRIDGE SHEET	TYPE DETAILS OF THICK PAVERMENTS & LOG. JOE OF SL. AROUND END BENTS		
23	BRIDGE SHEET	TYPE DETAILS OF THICK PAVERMENTS & LOGGING JOE OF SLOPE		
24	BRIDGE SHEET	TYPE DETAILS OF THICK PAVERMENTS & LOGGING JOE OF SLOPE		
25	BRIDGE SHEET	TYPE DETAILS OF THICK PAVERMENTS & LOGGING JOE OF SLOPE		
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100	BRIDGE SHEET	TYPE DETAILS OF THICK PAVERMENTS & LOGGING JOE OF SLOPE		

TRAFFIC DATA		
A.D.T. (1970)		3,700 V.P.D.
A.D.T. (1981 PROJECTED)		7,100 V.P.D.
D.H.V. (1981 PROJECTED)		7,172 V.P.D.
TRUCKS		D.H.V. 8% ADJUSTMENT
DESIGN SPEED		60 M.P.H.
ACCESS CONTROL		FULL

PRELIMINARY PLANS PREPARED BY
GANNETT FLEMING CORDDRY & CARPENTER, INC.
INDIANAPOLIS, INDIANA

SUBMITTED FOR APPROVAL DATE 10-18-1963

PHASE 1-RE. GANNETT FLEMING CORDDRY & CARPENTER, INC.



FINAL PLANS PREPARED BY
BOYD E. PHELPS, INC.
INDIANAPOLIS & MICHIGAN CITY, IND.

BY: *[Signature]*
DATE: 12-15-69

APPROVED: *[Signature]*
DATE: 1-12-70

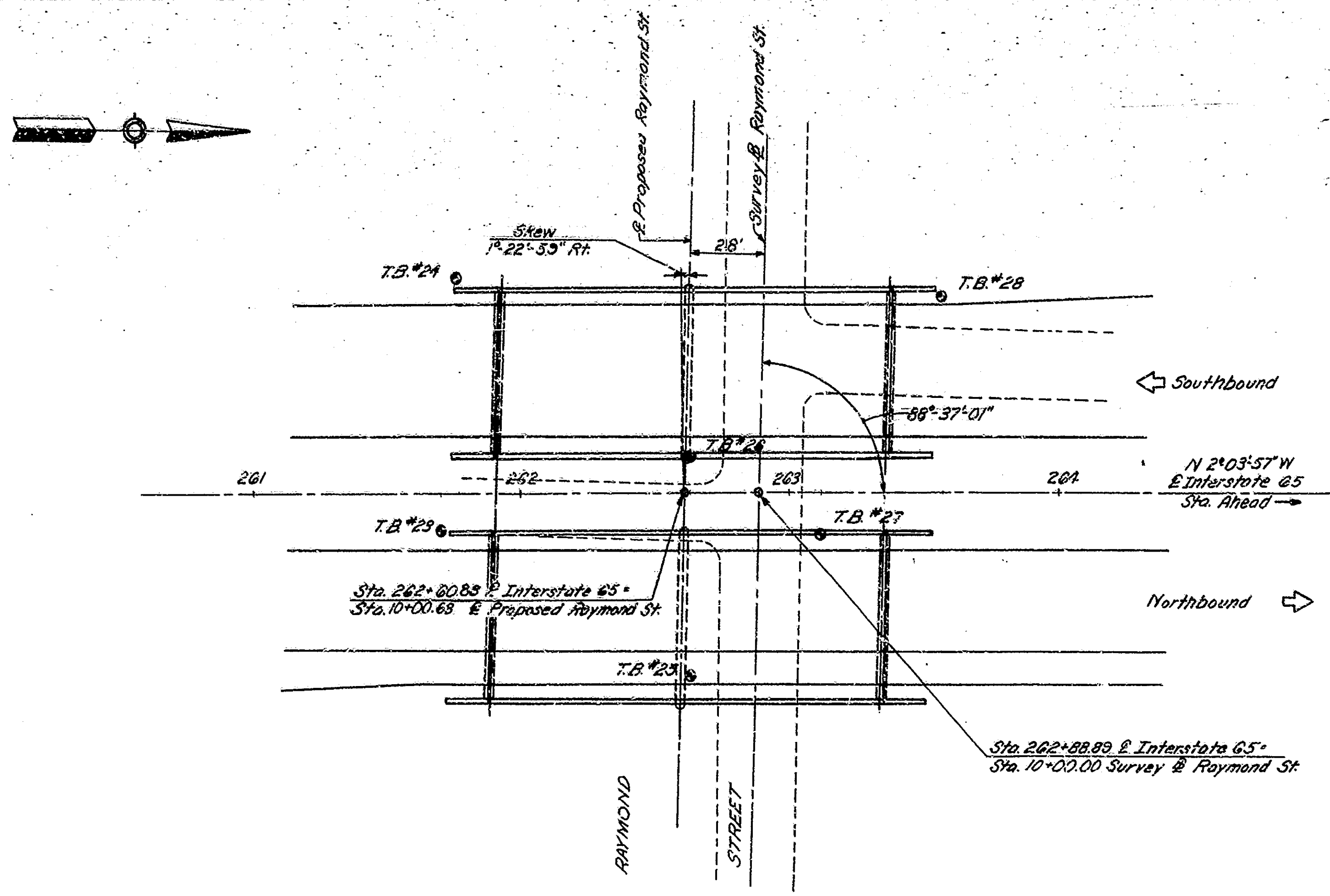
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____ DATE: _____
DIVISION ENGINEER

INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1971
TO BE USED WITH THESE PLANS.

REVISIONS		
DATE	SHEET NO.	DESCRIPTION
5-1-72	1 thru 12, 14, 15, 16, 17, 18, 19, 20, 21, 23	Added 15A, 16A, 20A, 23A, 23B, 23C, 23D, 23E
1-30-73	1, 4, 8, 10, 11, 13, 14, 15, 23c	Delete 23
3-5-73		Project Designation changed from I-65-3(66)109 to I-65-110-5694
12-3-73	1, 3, 4, 5, 10, 11, 12, 13, 14	Added 15A

5-1-72, 8-1-73, 1-30-73, 3-5-73, 12-3-73
BN/JMG
RMJ
LMM/KWD



PLAN
SCALE: 1" = 30'

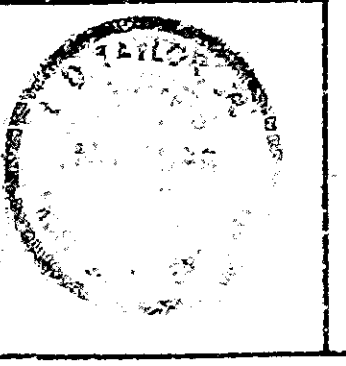
NOTE: - ▽ Denotes Ground Water Table
 N Indicates the number of blows required to drive a 1 1/2" I.D., 2" O.D. Split Spoon Sampler G" by means of a 140# Weight Falling 30". The Sample elevation shown indicates the top of each 18" Sample.
 See Article 102.05 of the Specifications regarding test pit data.

BORING NO.	T. B. # 23	T. B. # 24	T. B. # 25	T. B. # 26	T. B. # 27	T. B. # 28	
STATION	261+70	261+77	262+63	262+63	263+12	263+57	
OFFSET	13' Rt.	77' Lt.	65' Rt.	13' Lt.	15' Rt.	70' Lt.	
GROUND ELEV.	729.5	729.6	730.0	730.1	730.6	730.6	
730	SAMPLE No. 1, El. 729.5	SAMPLE No. 1, El. 729.6	SAMPLE No. 1, El. 730.0	SAMPLE No. 1, El. 730.1	SAMPLE No. 1, El. 730.6	SAMPLE No. 1, El. 730.6	
	N 1, Description: Ground Level	N 1, Description: Ground Level	N 1, Description: Ground Level	N 1, Description: Ground Level	N 1, Description: Ground Level	N 1, Description: Ground Level	
720	SAMPLE No. 2, El. 727.0	SAMPLE No. 2, El. 727.1	SAMPLE No. 2, El. 726.5	SAMPLE No. 2, El. 726.4	SAMPLE No. 2, El. 724.6	SAMPLE No. 2, El. 724.6	
	N 2, Description: Blacktop brack (fill)	N 2, Description: Blacktop brack (fill)	N 2, Description: Brown moist medium stiff sandy clay loam	N 2, Description: Brown moist medium stiff to soft sandy clay loam	N 2, Description: Brown moist medium dense to dense sand	N 2, Description: Brown moist soft sandy clay loam (topsoil)	
710	SAMPLE No. 3, El. 723.5	SAMPLE No. 3, El. 723.7	SAMPLE No. 3, El. 722.5	SAMPLE No. 3, El. 722.5	SAMPLE No. 3, El. 722.1	SAMPLE No. 3, El. 722.1	
	N 3, Description: Brown moist soft sandy clay	N 3, Description: Brown moist medium dense fine sand	N 3, Description: Brown moist medium dense sand with some medium to fine gravel	N 3, Description: Brown moist very stiff silty clay with little sand	N 3, Description: Brown moist to med. dense sand and fine to medium gravel	N 3, Description: Brown moist loose to medium dense sand and fine to medium gravel with thin layers of clay	
700	SAMPLE No. 4, El. 716.0	SAMPLE No. 4, El. 716.1	SAMPLE No. 4, El. 716.5	SAMPLE No. 4, El. 716.4	SAMPLE No. 4, El. 717.1	SAMPLE No. 4, El. 717.1	
	N 4, Description: Brown moist loose to medium dense sand with some gravel wet at 43.5	N 4, Description: Gray dry very stiff silty clay loam	N 4, Description: Gray dry very stiff silty clay loam	N 4, Description: Gray dry stiff to very stiff silty clay loam (hardpan)	N 4, Description: Brown moist to med. dense sand and fine to medium gravel	N 4, Description: Gray moist very stiff to hard sandy clay with layers of sand and fine to medium gravel	
690	SAMPLE No. 5, El. 710.0	SAMPLE No. 5, El. 710.0	SAMPLE No. 5, El. 708.5	SAMPLE No. 5, El. 708.5	SAMPLE No. 5, El. 707.1	SAMPLE No. 5, El. 707.1	
	N 5, Description: Gray dry very stiff silty clay loam (hardpan)	N 5, Description: Hard at 28.5 End of boring	N 5, Description: Brown moist very stiff sandy clay with little fine to medium gravel End of boring	N 5, Description: Gray moist very stiff to hard sandy clay with layers of sand	N 5, Description: Gray moist very stiff to hard sandy clay with fine to medium gravel End of boring	N 5, Description: Hard sandy clay with layers of sand and fine to medium gravel	
680	SAMPLE No. 6, El. 706.0	SAMPLE No. 6, El. 706.1	SAMPLE No. 6, El. 705.5	SAMPLE No. 6, El. 705.5	SAMPLE No. 6, El. 702.1	SAMPLE No. 6, El. 702.1	
	N 6, Description: Hard at 28.5 End of boring	N 6, Description: Hard at 28.5 End of boring	N 6, Description: Hard at 28.5 End of boring	N 6, Description: Hard at 28.5 End of boring	N 6, Description: Hard at 28.5 End of boring	N 6, Description: Hard at 28.5 End of boring	
DEPTH OF BORING 30'-0"		DEPTH OF BORING 30'-0"		DEPTH OF BORING 30'-0"		DEPTH OF BORING 30'-0"	

FINAL PLANS PREPARED BY
 BOYD E. PHELPS, INC.
 INDIANAPOLIS & MICHIGAN CITY, IND.
 BY: [Signature]
 DATE: Jan. 18, 1969

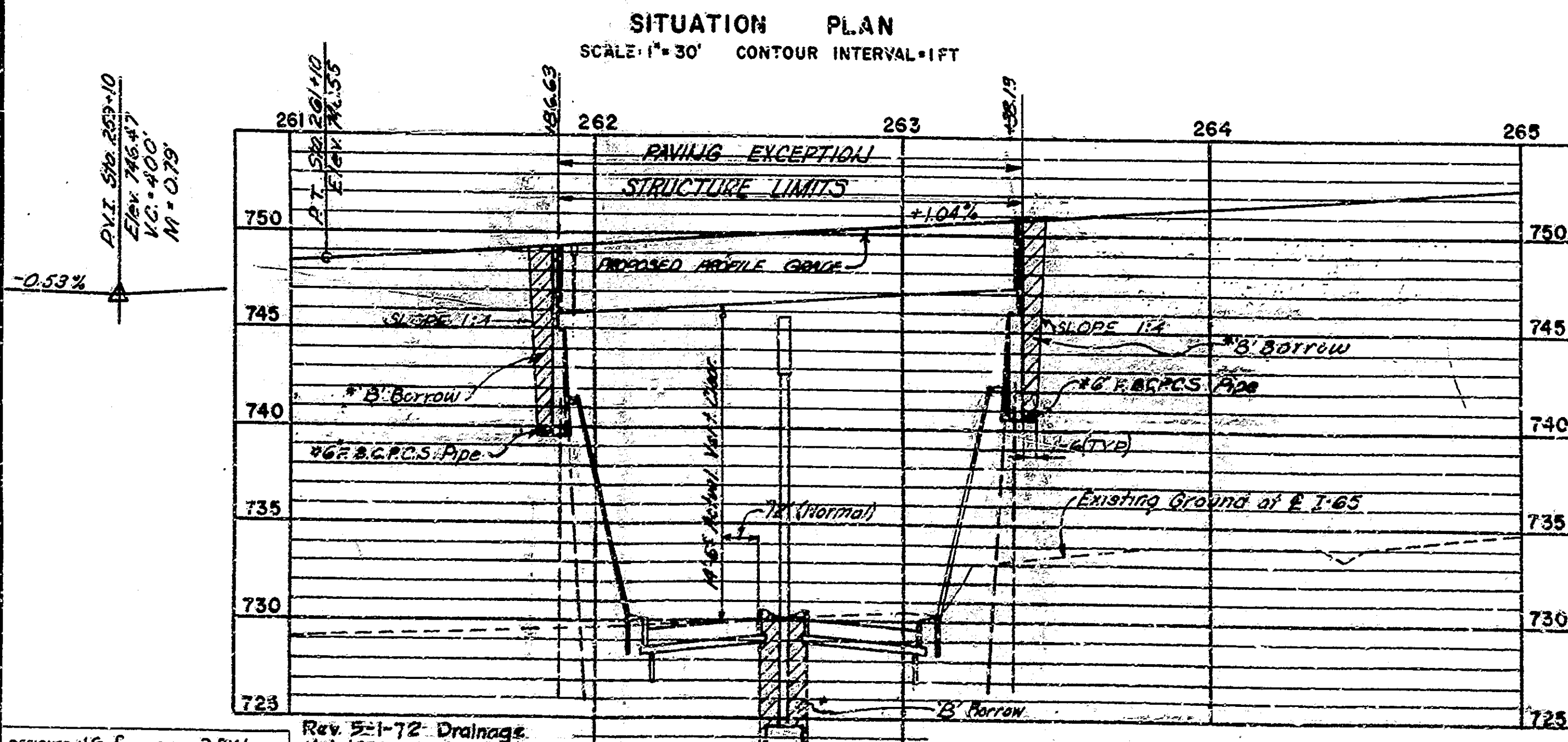
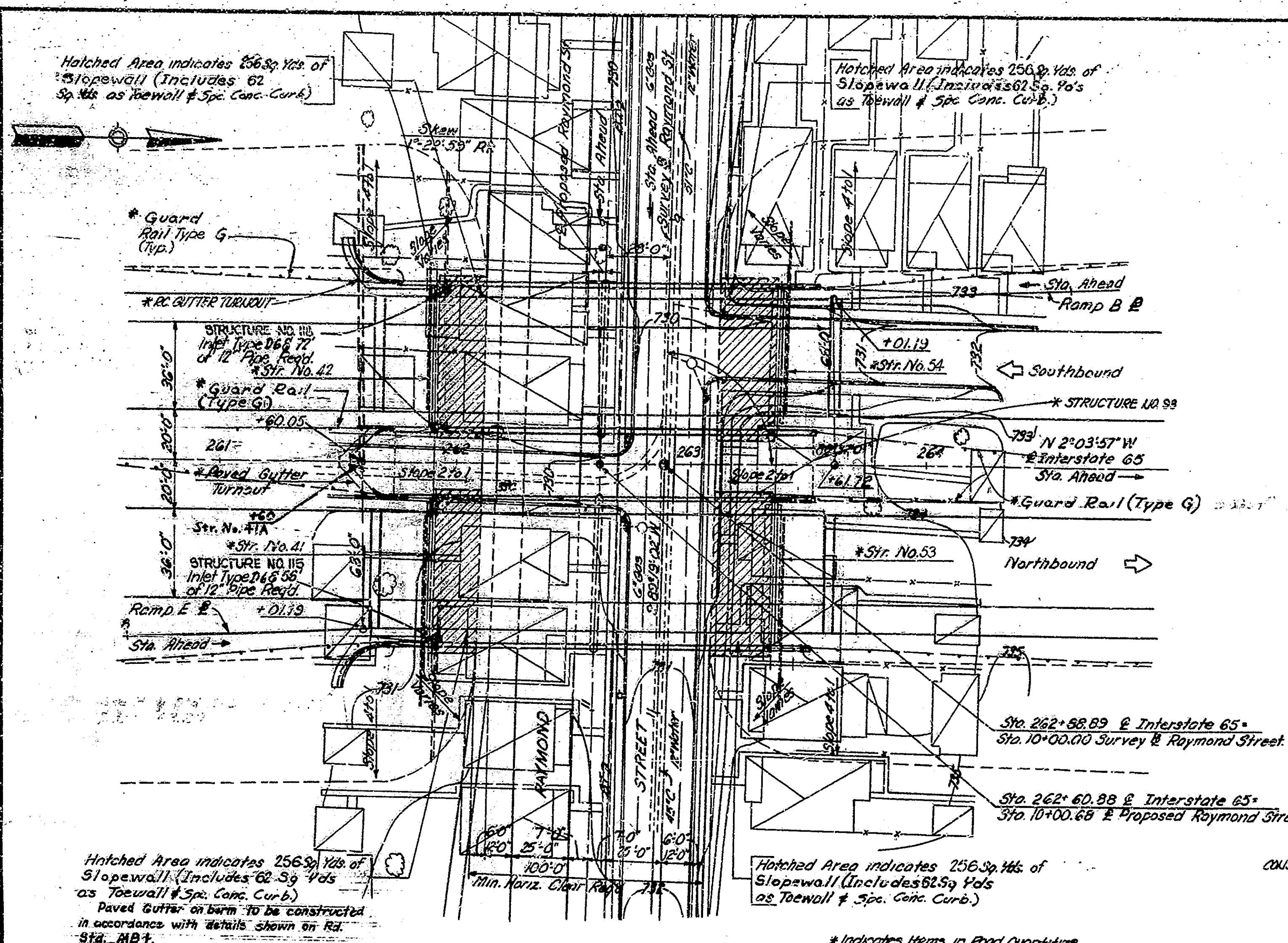
SOIL BORINGS

SCALES: HORIZ. 1" = 30', VERT. 1" = 10'
 RECOMMENDED FOR APPROVAL [Signature]
 CHASE L. P. GAMMETT FLEMING CONROY & CARPENTER, INC.
 PROJECT: I-65-3(1)09
 BRIDGE CONTRACT NO. B-8872
 BRIDGE FILE: I-65-110-5694



Rev 5-1-72 Note.

Rev. 3-5-75 Project Designation changed from I-65-3(1)09 to I-65-3(1)09.

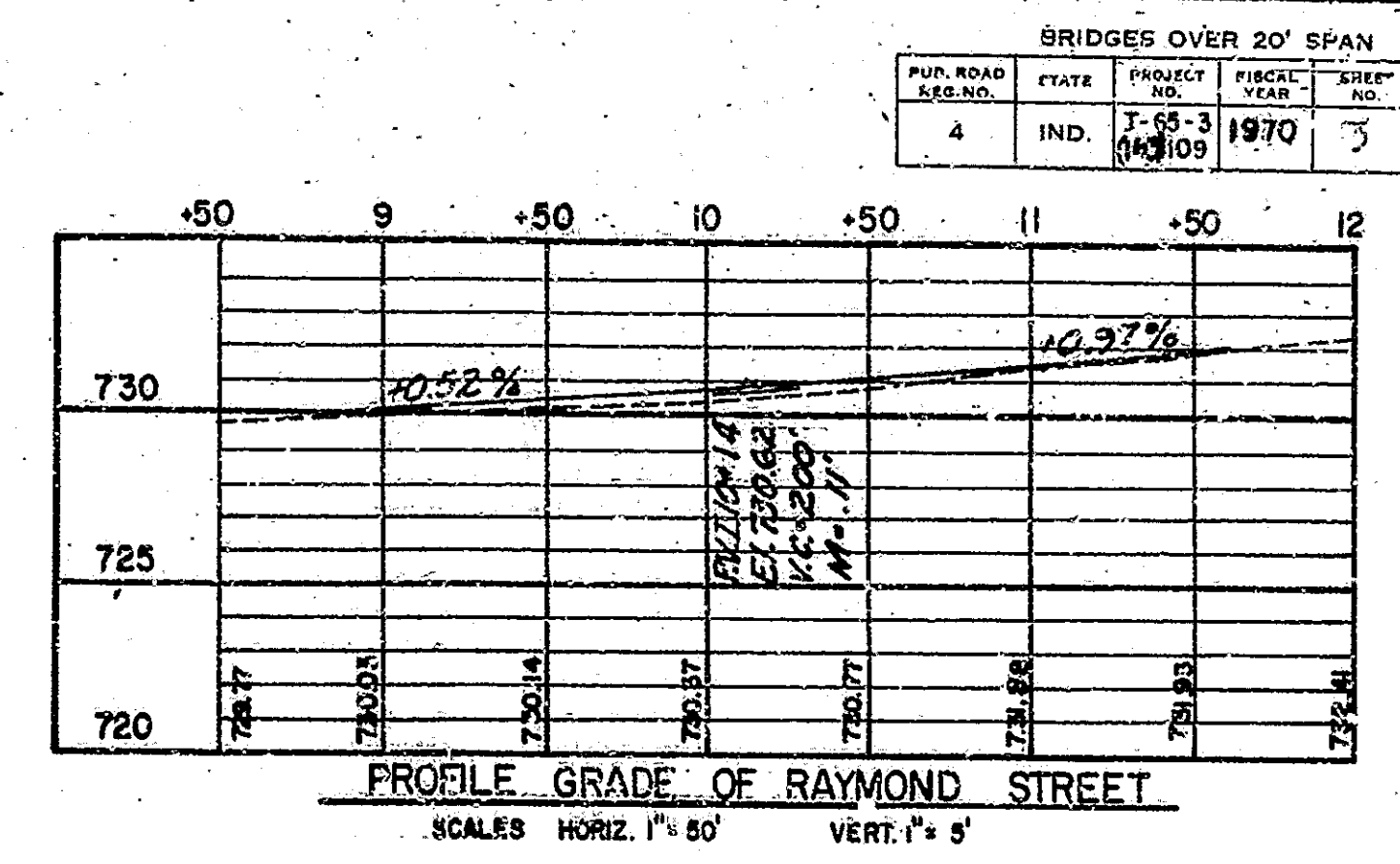


20' Maple
30.36'
30.10' 35.77' P.W.P.
R.W.P. 374-608B
152-608B

(P.K.N.F.)
STATION EE-7
(Sta. 17+78.59 Raymond St. S' Line)
815225.70 N
368375.34 E

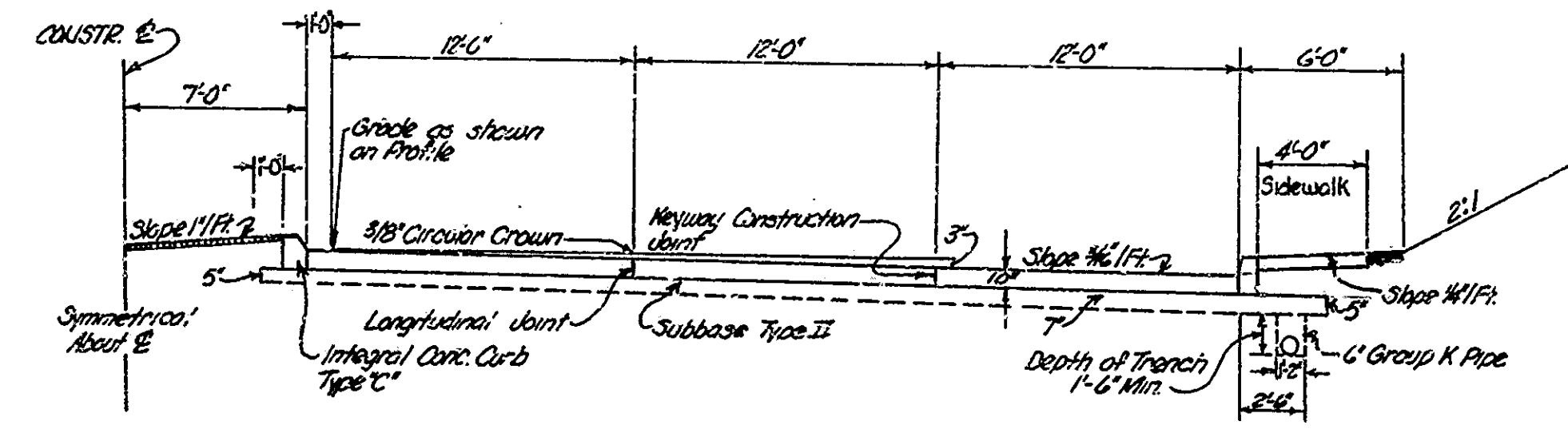
S.E. Cor. Top
of C.B. Int.
32.55'
23.62' 24.34'
P.W.P. P.W.P.

(P.K.N.F.)
STATION EE-33
(Sta. 10+05.76 Raymond St. S' Line)
815216.49 N
367602.56 E



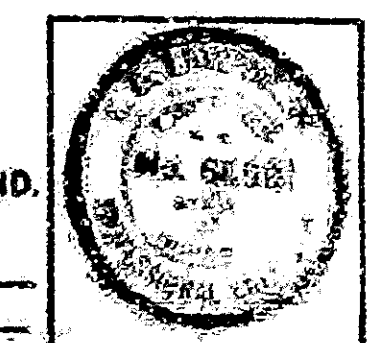
- PUBLIC UTILITIES OWNERSHIP**
- Indianapolis Water Company - 1220 Waterway Avenue Indianapolis, Indiana
 - Citizens Gas and Coke Utility - 2020 North Meridian St Indianapolis, Indiana
 - Indianapolis Power & Light Co. - 25 Monument Circle Indianapolis, Indiana
 - Indiana Bell Telephone Co. - 240 North Meridian St Indianapolis, Indiana
 - Board of Sanitary Commissioners - City-County Building Room 2341 Indianapolis, Indiana

Note: PROTECT SEWERS IN PLACE
See Road Plan & Profile sheets for R/W Lines, Bench Marks, Property Owners, Section, Township & Range.
This is structure Number 5 on Road Project I-65-3(163)09
Present Structure: None.

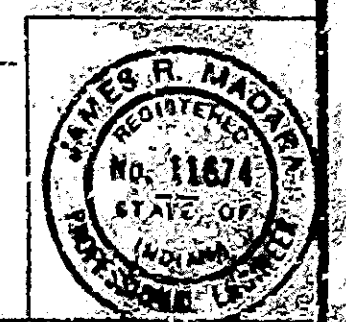


LAYOUT
CONTINUOUS COMPOSITE STEEL BEAM BRIDGES
2 SPANS - 72'-6", 75'-6"
SKEW 1°-22'-59" RIGHT
58'-6" ROADWAY, 3" CURBS
I-65 OVER RAYMOND STREET
INDIANA STATE HIGHWAY COMMISSION
MARION COUNTY

FINAL PLANS PREPARED BY
ROYD E. PHELPS, INC.
INDIANAPOLIS & MICHIGAN CITY, IND.
BY *[Signature]*
DATE *[Date]*



SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *[Signature]* 11-13-68
PHASE I-P.E. GANNETT FLEMING CORDROY & CARPENTER, INC.
DRAWING: S1 OF S11
PROJECT: I-65-3(163)09
BRIDGE CONTRACT NO. B-887Z
BRIDGE FILE: I-65-110-5694



DESIGNED: J.G.E. CKD DRW.
DRAWN: W.B.C. CKD L.W.H.
TRACED: R.W. CKD L.W.H.

Rev 5-1-72 Drainage details, guard rail, 'B' borrow, slope, slope-wall, note: Delete Brs #116 & 117, Add Br. #118.

REV 8-3-73 Paved Gutter Note

November 6, 1961

Rev 5-2-72 Project Designation changed from I-65-3(163)09 to I-65-3(163)109.

PROJECT NO.	DATE	BY	APP'D.	FILE
I-65-3(163)109	11-13-68	J.R.M.	J.R.M.	I-65-110-5694

BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	I-65-3	1970	4	23
		109			

GENERAL NOTES

No present structure at proposed bridge site. Depth of footings to be extended if found necessary. See art. 206.11 (c) of specifications.

Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by articles of specifications 701.

For details of steel encased concrete piles see Bridge Standard C1, and applicable articles in the specifications.

Piles shall be driven to elevation necessary to obtain desired bearing. Reinforcing steel covering shall be 2 inches in top and 1 inch minimum in bottom of floor slabs, 3 inches in footing except bottom steel which shall be 4 inches, and 2 inches in all other parts unless noted.

Concrete in footings to be Class "B".

Concrete in end bents and interior bent caps to be Class "A".

Concrete in superstructure to be Class "C".

Concrete in bent columns, steel encased concrete piles, and headwalls to be Class "A".

Continuous concrete pours shall be required between construction joints as shown on detail plans.

Bevel forms 1/4 inch under coping; and chamfer exposed edges 1 inch unless noted. Construct slopewall at locations as shown on layout. Tolerance in position of pile head, maximum 2 inches in end bents. All railing to be constructed perpendicular to grade. See special provisions for items included in this contract. Waterproof backs of mullwalls and wingwalls, in accordance with Art. 702.20 of the Specifications.

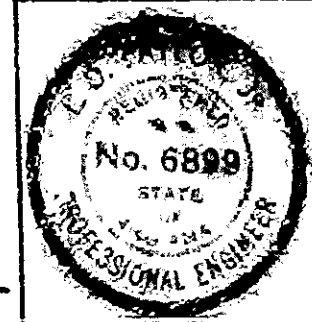
For pay items covering this structure, see "Bridge Summary".

4 standard type SQA roadway drains to be placed as shown on this drawing. For future light post installation see Br. Std. R2A. Two 3" diameter light poles required. Coping offsets to be constructed in accordance with Br. Std. R2A. Only the top of caps at Bents 1 & 3 and the front face of mullwalls, to be sealed in accordance with Article 702.20 of the Specifications.

LIST OF STANDARD DRAWINGS

Bridge	Purpose	Road	Purpose
C1	splicing pile shells, reinforcing bar notes,	MB2	Slopewall Details.
		MB4	Drainage Details
C3	Notch in Slab; Type IA Joint, Constr. Jt. type A	MC	Type 6 Inlet casting
D	Roadway Drain Type SQA	MD	Type D Inlet
BE1/BE2	Aluminum railing details	ME2	Metal End Sections
BS1/BS2	Steel railing details	S	Inlet "P12"
R2A	Type 1 method for 8" light post	GR4	Protective Earth Barriers
St	Drainage details at end of bridge		

FINAL PLANS PREPARED BY
BOYD E. PHELPS, INC.
INDIANAPOLIS & MICHIGAN CITY, IND.



BY *L. J. Taylor*
DATE *Mar 10 1969*

GENERAL PLAN
CONTINUOUS COMPOSITE STEEL BEAM BRIDGES

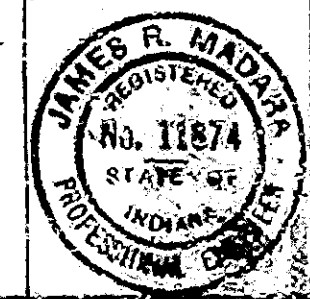
2 SPANS - 72'-6" 75'-6"
SKEW 1°-22'-59" RIGHT
58'-6" ROADWAY, 3" CURBS
I-65 OVER RAYMOND STREET

INDIANA STATE HIGHWAY COMMISSION

MARION COUNTY

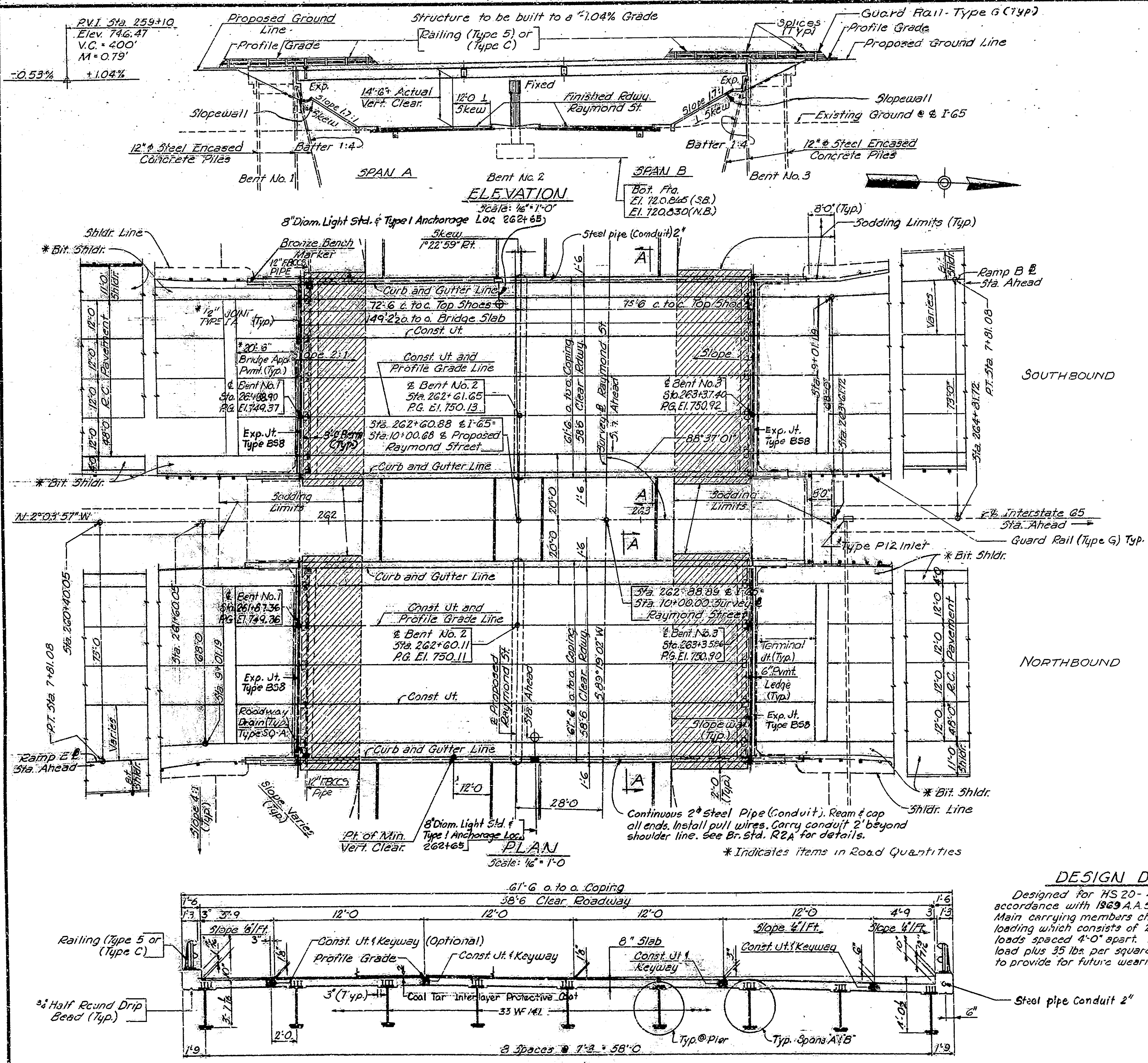
SCALE: AS NOTED

SUBMITTED FOR APPROVAL: *James R. Madson* 10-10-68
PHASE: P
DRAWING: S2 OF S11
PROJECT: I-65-3(109)
BRIDGE CONTRACT NO: B-8875
BRIDGE FILE: I-65-110-5694



DESIGN DATA

Designed for HS 20-44 loading in accordance with 1969 A.A.S.H.O. specifications. Main carrying members checked for special loading which consists of 2 - 24,000 lb axle loads spaced 4'-0" apart. Dead Load: Actual load plus 35 lbs per square foot of roadway to provide for future wearing surface.

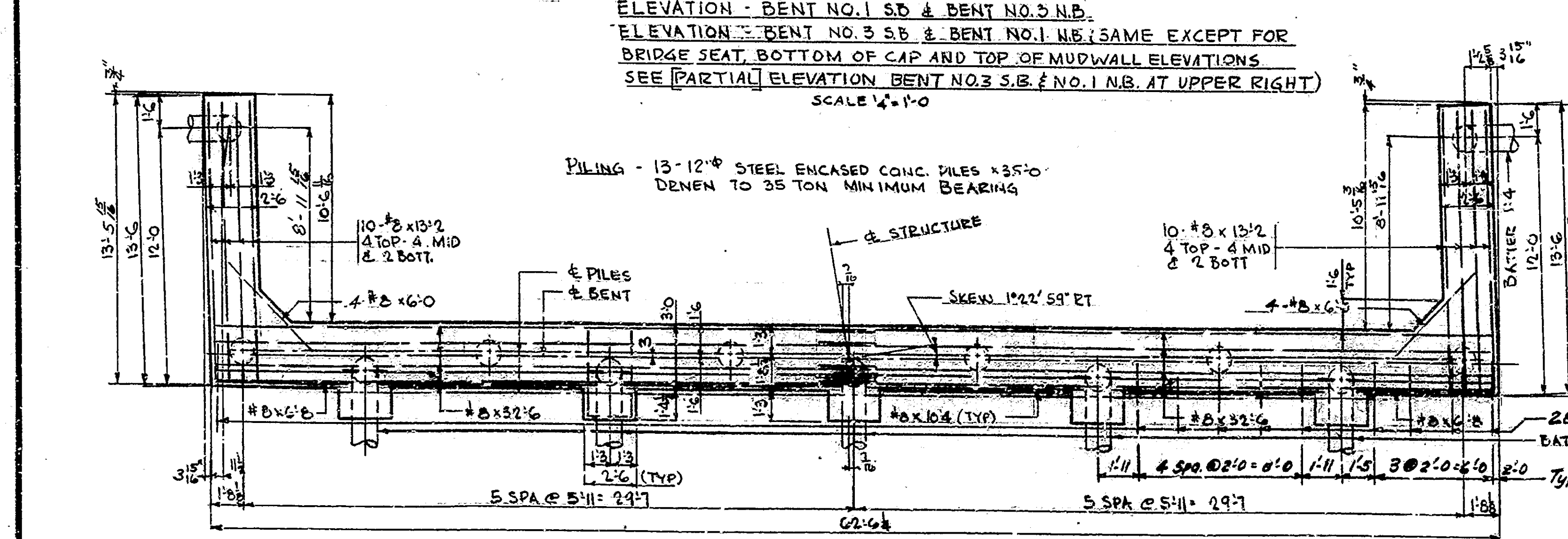
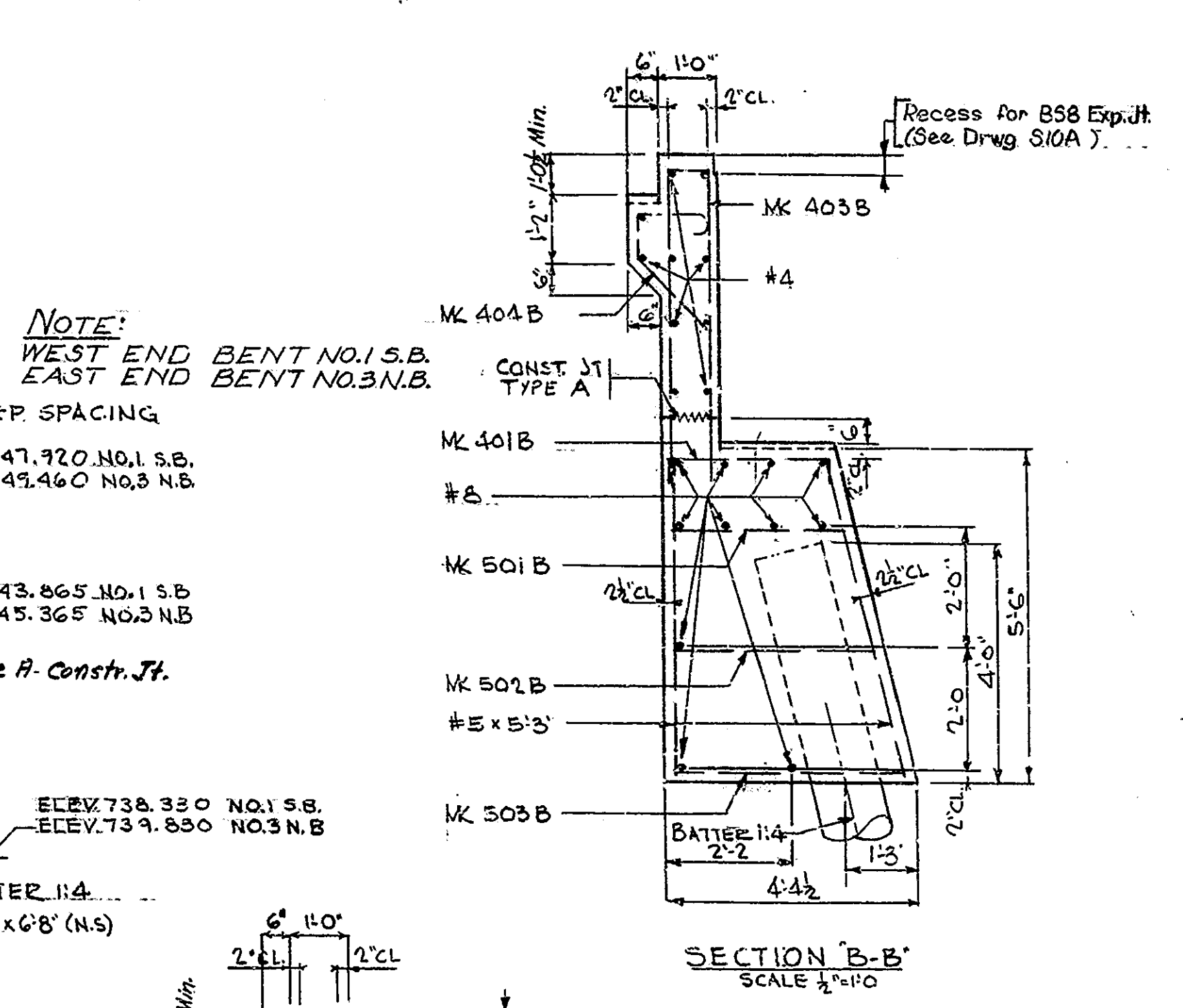
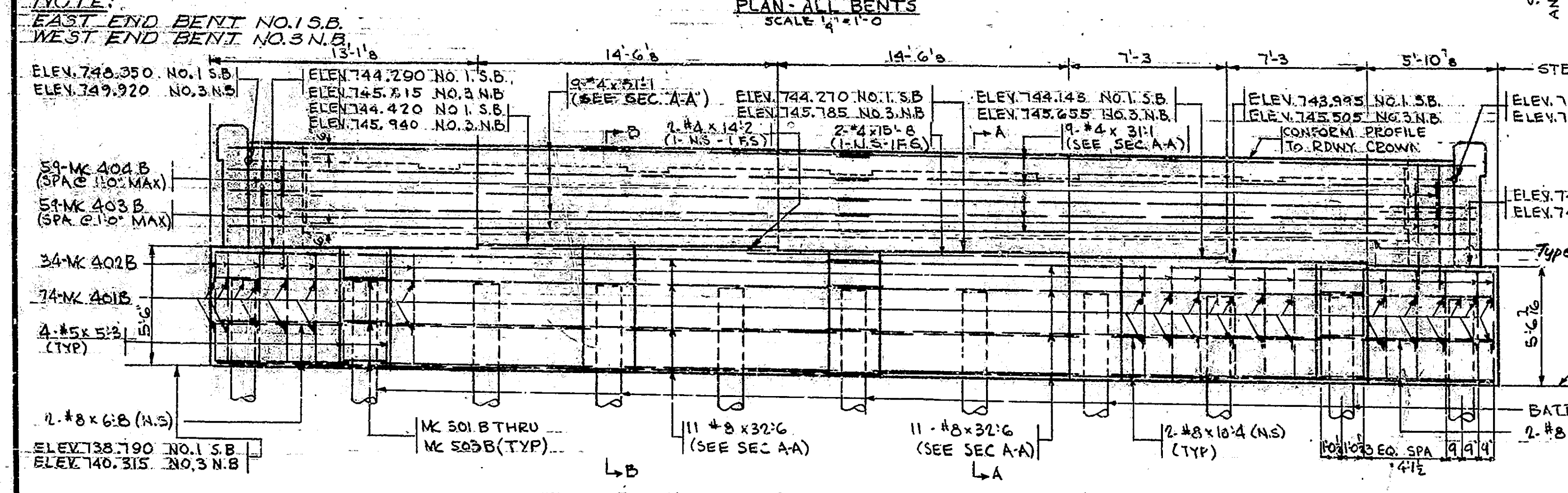
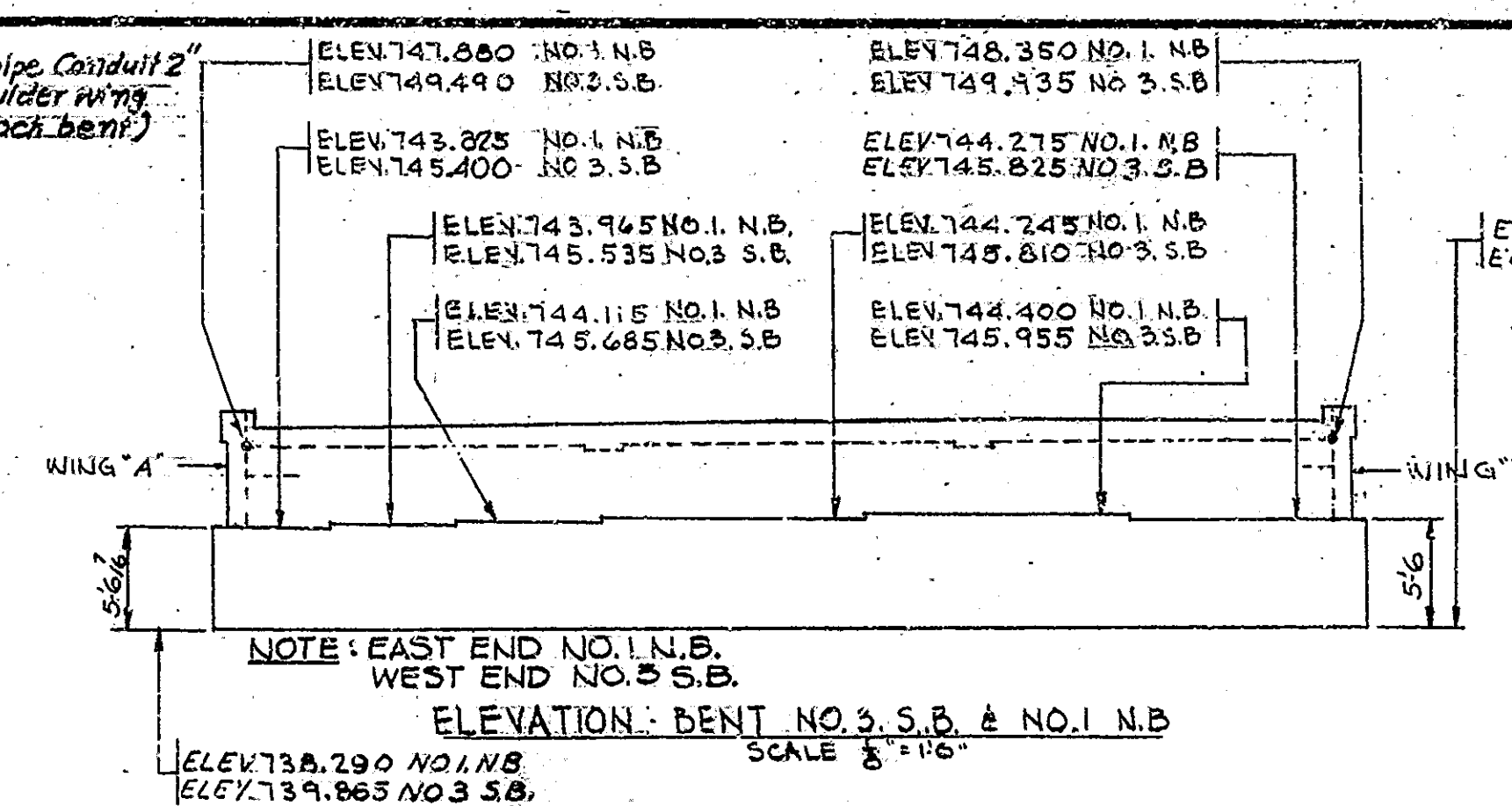
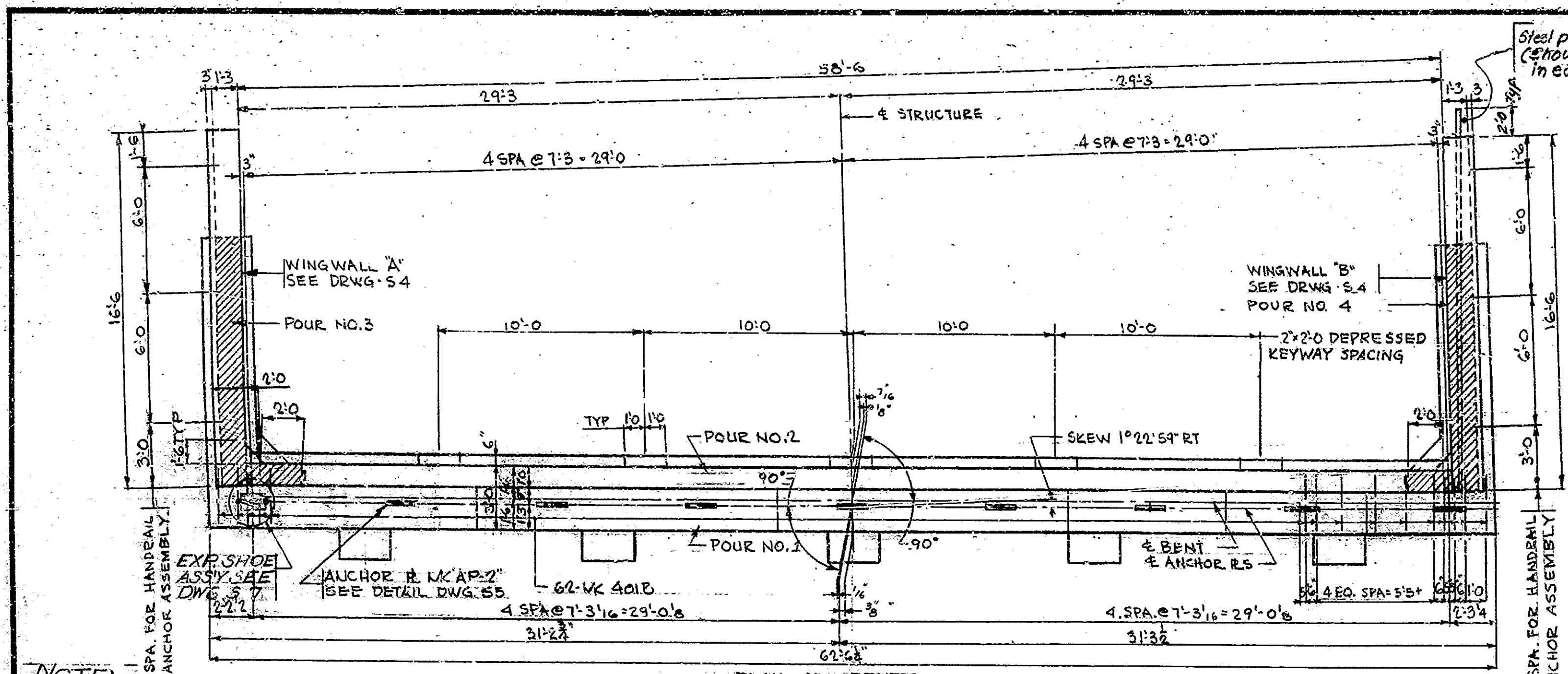


SECTION A-A 1 TO 6 ROADWAY

Rev. 1-30-73 Std. Drawg. Lighting
Rev. 5-1-72 Slopewall, 5'6" Berm, Std. Drawg., Notes
Rev. 8-3-73 Lighting, Notes, Overlay

5-1-72 B.M./A.P.G.
1-30-73 W.F.O./P.A.W.
8-3-73 J.W./S.D.M./D.L.

DESIGNED: *W.B.C.* CKD: *D.W.K.*
DRAWN: *W.B.C.* CKD: *L.W.H.*
TRACED: *W.B.C.* CKD: *L.W.H.*



BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	165-3(163)109	1970	5	23

NOTE: WEST END NO. 1 N.B. EAST END NO. 3 S.B.

BILL OF MATERIALS (ONE BENT ONLY)

SIZE OR NO.	PCS	LENGTH	WEIGHT
#8	22	32'-6"	
#8	20	13'-2"	
#8	8	10'-4"	
#8	4	6'-8"	
#8	12	6'-0"	
TOTAL #8			3096 #

501-B	5	8'-0"	
502-B	5	9'-2"	
503-B	5	10'-2"	
#5	20	16'-2"	
#5	20	9'-10"	
#5	34	6'-9"	
#5	26	5'-5"	
#5	20	5'-3"	
TOTAL #5			1181 #

#4	28	3'-0"	
401-B	136	3'-8"	
402-B	34	14'-0"	
403-B	59	12'-0"	
404-B	59	3'-11"	
405-B	34	3'-2"	
406-B	16	7'-6"	
#4	18	3'-1"	
#4	2	14'-2"	
#4	2	15'-8"	
TOTAL #4			1900 #

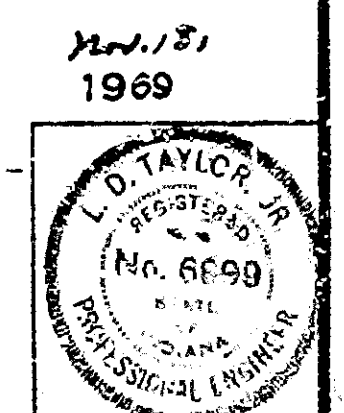
TOTAL REINFORCING CONCRETE		
CLASS "A" POUR NO. 1	48.1	
NO. 2	9.9	
NO. 3	5.2	
NO. 4	5.2	
TOTAL CLASS "A" SUBST.	67.4	83.0 CY

MISCELLANEOUS		
ANCHOR PLATES MK AP-2	9 EACH	
Steel Pipe Conduit 2"	13.5 LBS	
RAILING TYPE 50 R.C.	33.0 LBS	
13-12" STEEL ENCASED		
CONC. PILES 135'-0"	455.0 LBS	

NOTES:
CROSS HATCHED AREA INDICATES LIMITS OF HORIZONTAL CONSTRUCTION JOINT AT TOP OF CAP UNDER WING WALL. SEE DRAWG. S 4 FOR WING WALL DETAILS & REINFORCING BAR DETAILS.
FOR REINFORCING BAR NOTES SEE BRIDGE STD. CI MUDWALL POUR NO. 2, 3 & 4 TO BE MADE WHEN SUPERSTRUCTURE IS MADE.
SEE DRAWING 30 FOR GENERAL NOTES.
ANCHOR PLATES MK AP-1 TO BE PRESET IN CONCRETE. SEE DETAIL DWG. S 5.
DO NOT BACKFILL ABOVE BRIDGE SEAT OF END BENTS UNTIL SUPERSTRUCTURE IS SET.

**BENTS NO. 1 S.B. & NO. 3 N.B.
BENTS NO. 3 S.B. & NO. 1 N.B.
INDIANA STATE HIGHWAY COMMISSION**

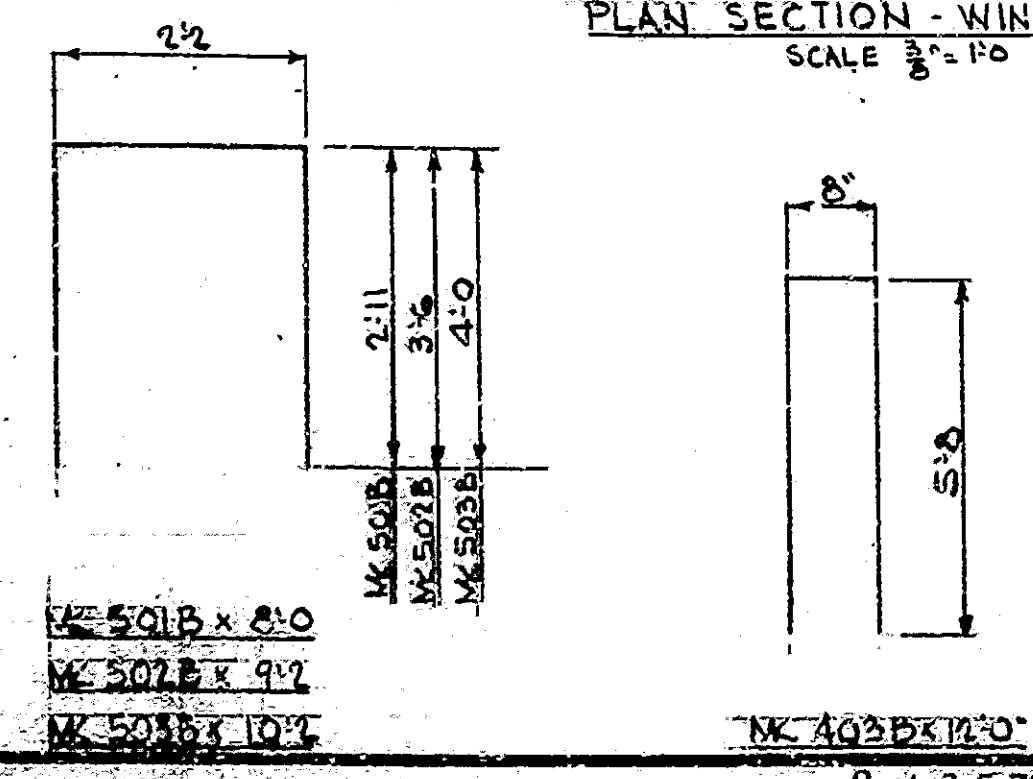
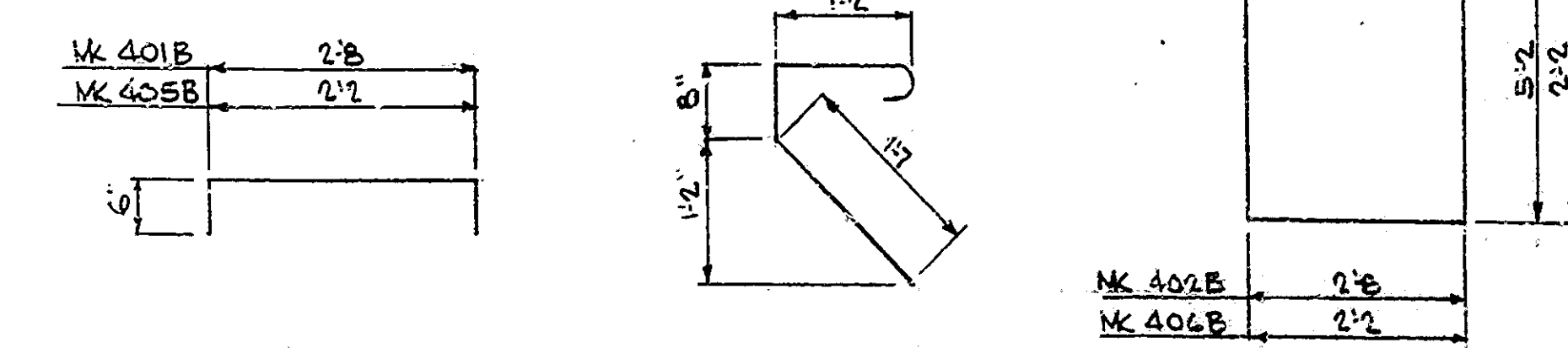
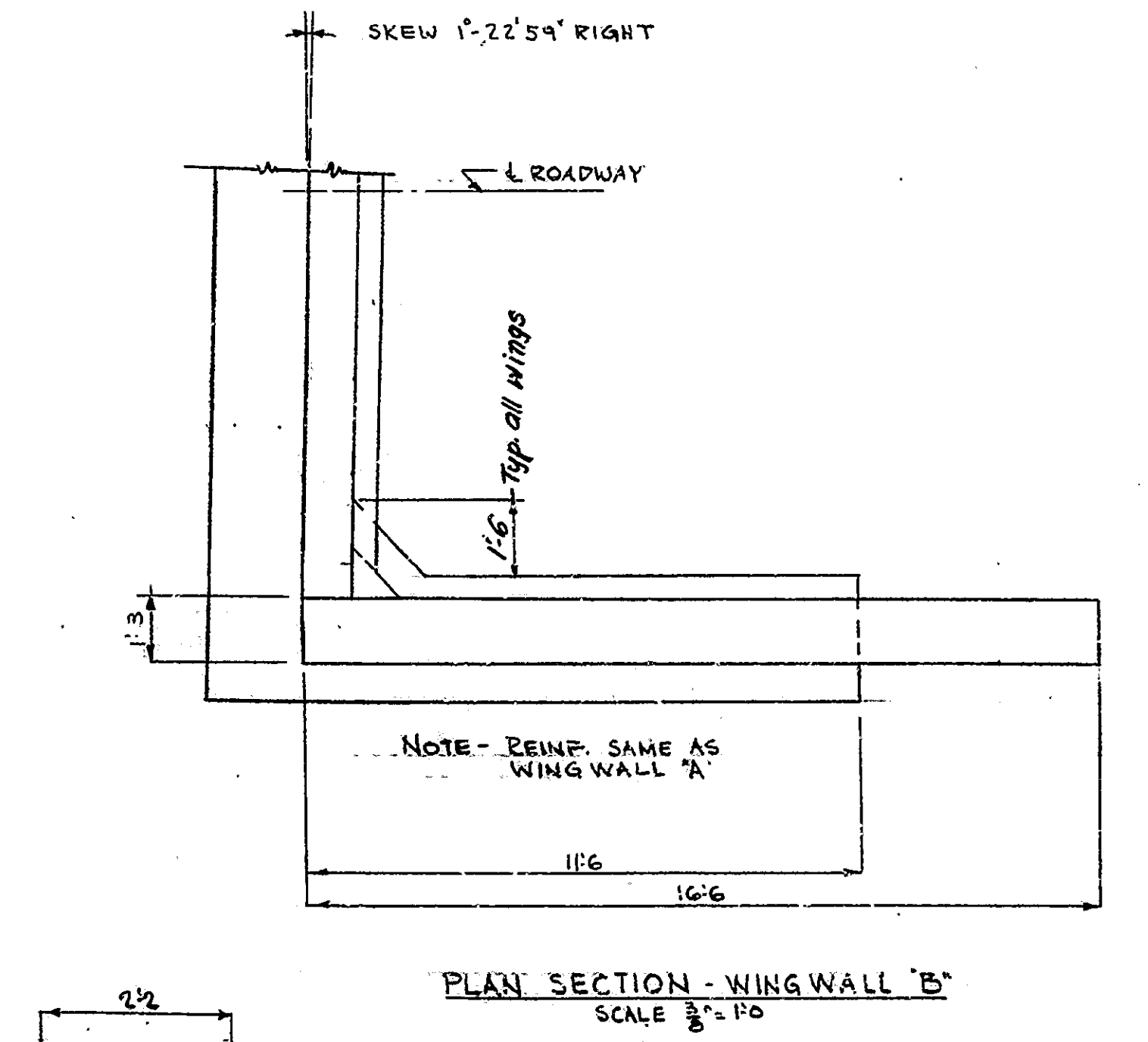
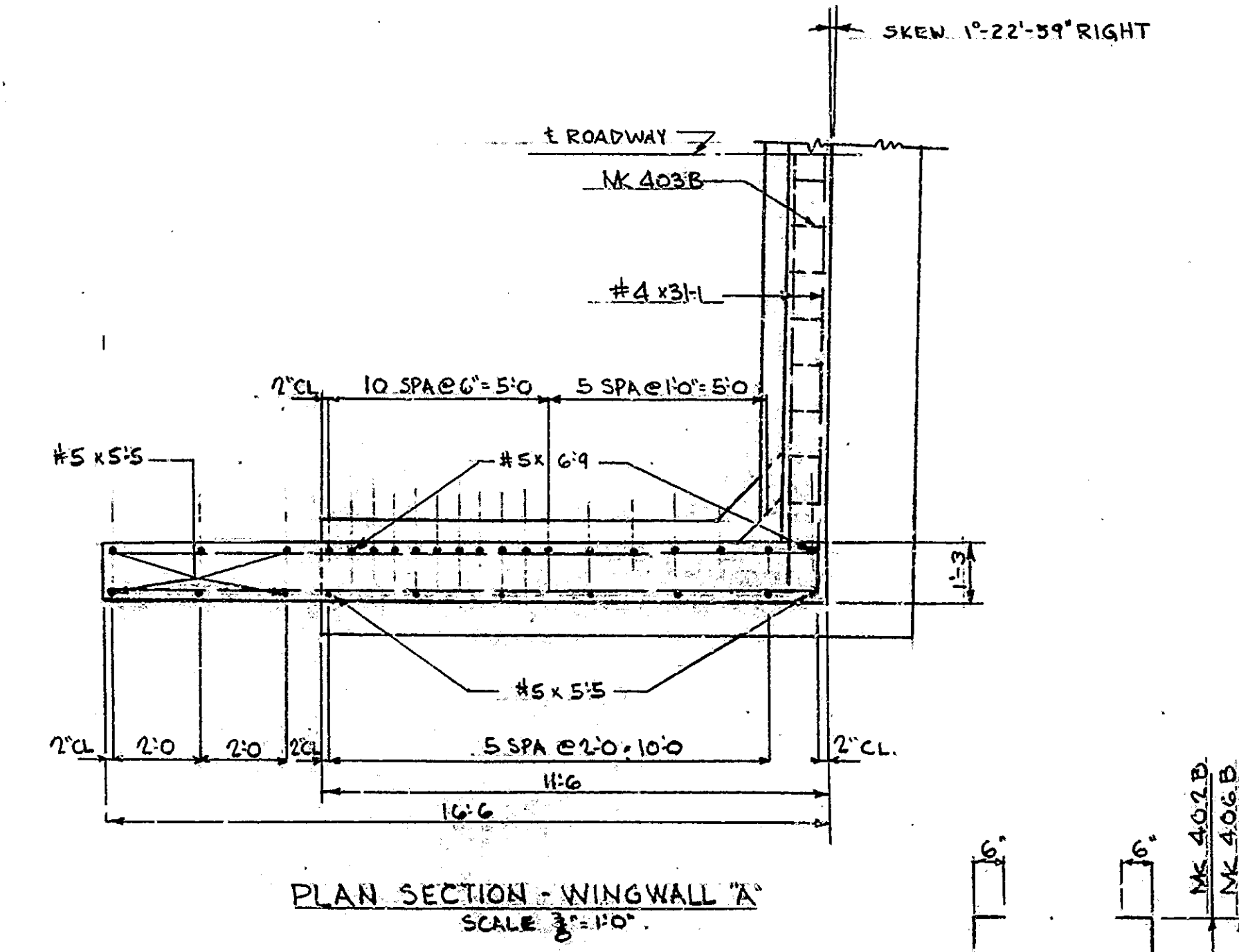
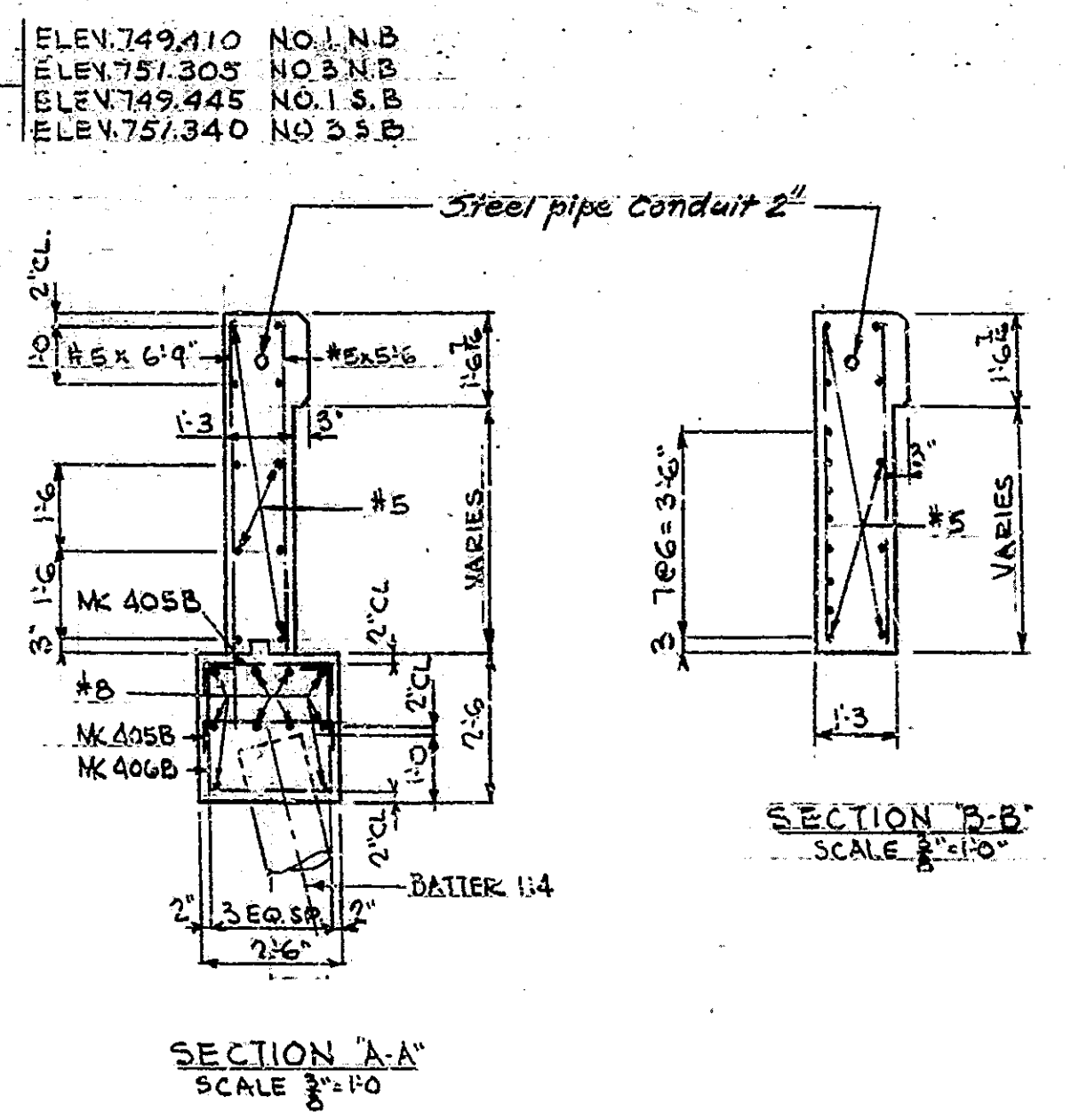
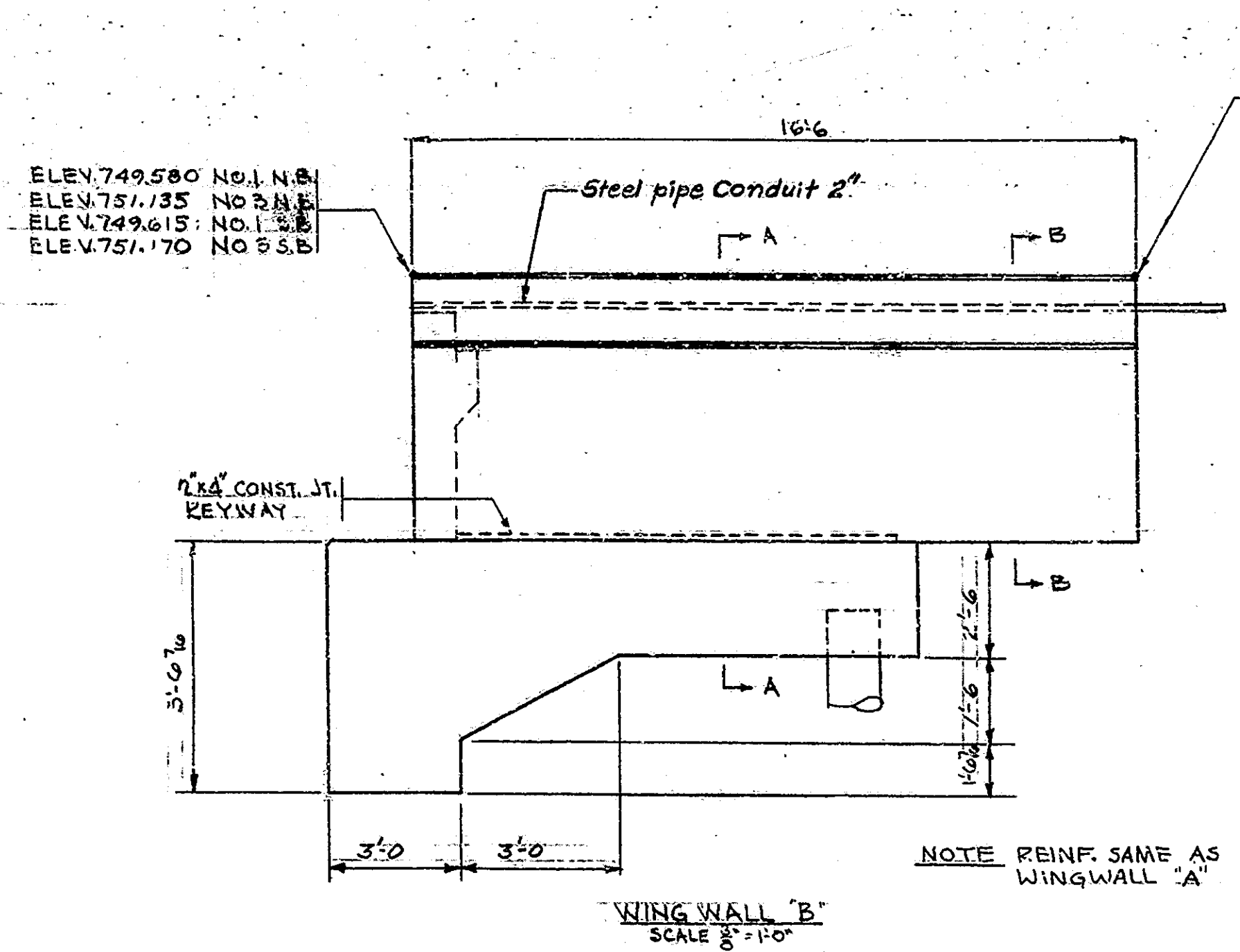
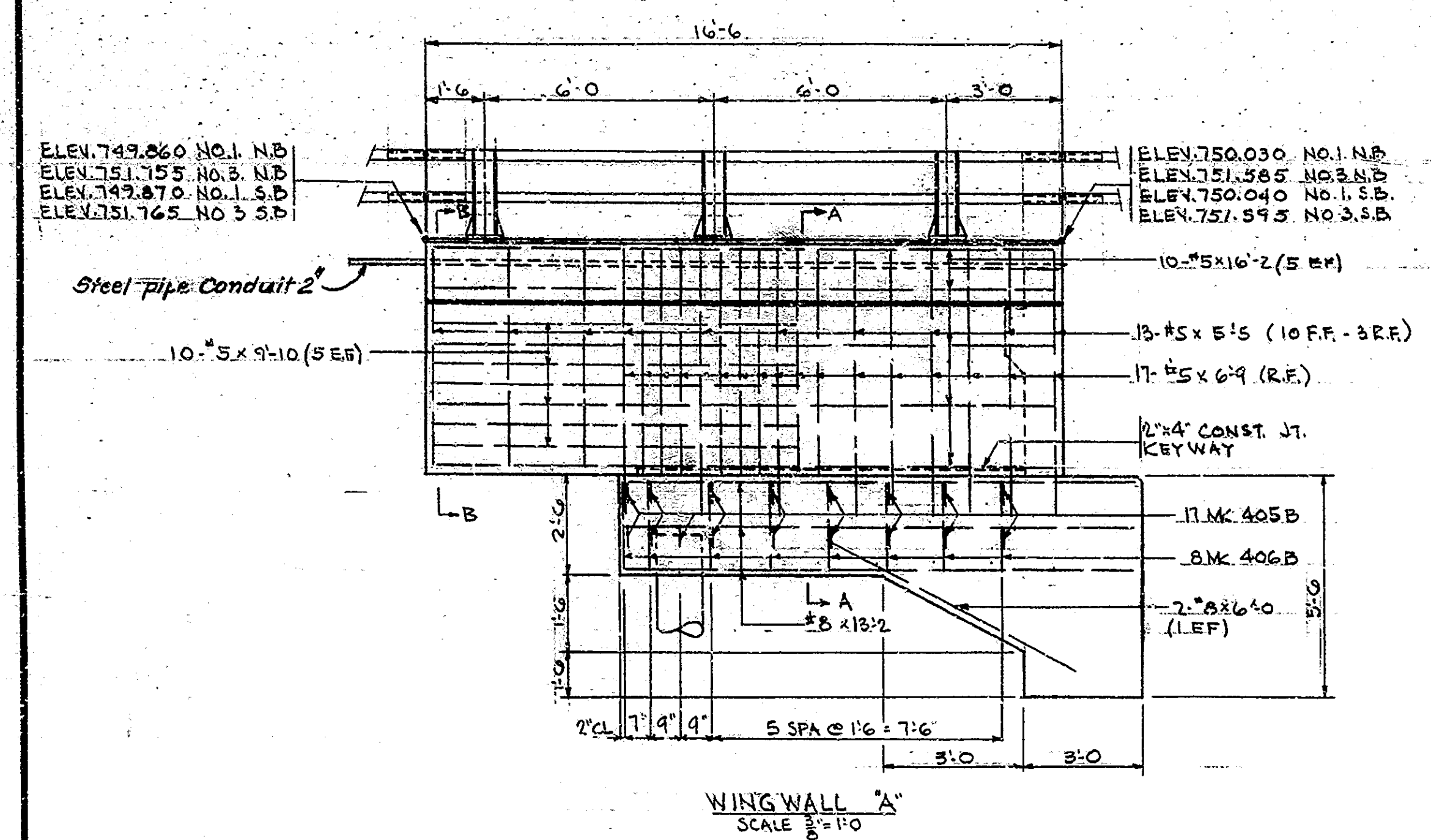
SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *[Signature]*
DRAWING: 33 OF 51
PROJECT: 165-3(163)109
BRIDGE CONTRACT NO. 8-8877
BRIDGE FILE: I-65-110-5894



DESIGNED: JGB CKD: DRW
DRAWN: RMB CKD: ECP
TRACED: CKD

REV. 8-3-73. Mudwall Details, B58 Exp. Ut.
REV. 5-1-72 Constr. Jt. type A, Field bent bars, Notes.

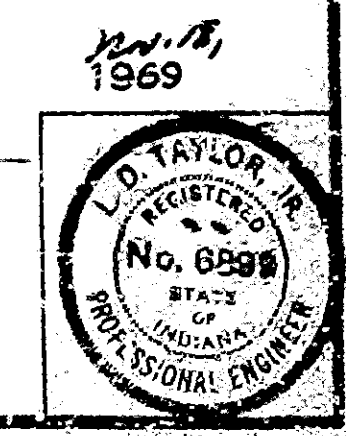
BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	165-3(109)	1970	6	23



NOTES:
See drawing S3 for additional details and Bill of Materials.

WINGWALL DETAILS INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *L. D. Taylor*
DRAWING: S-4 OF S-11
PROJECT: I-65-3(109)
BRIDGE CONTRACT NO. B-3877
BRIDGE FILE: I-65-110-5694



DESIGNED: JGB CKD: DRY
DRAWN: RNB CKD: ECF
TRACED: CKD

MK 401B x 3'8
MK 405B x 5'2
MK 402B x 14'0
MK 406B x 11'6
Rev. 5-1-72 Steel pipe Conduit 2", Note

November 6, 1961
Rev. 3-5-73 Project Designation changed from I-65-3(109) to I-65-3(109)109

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
I-65-3(109)	I-65	6	23	I-65-3(109)109

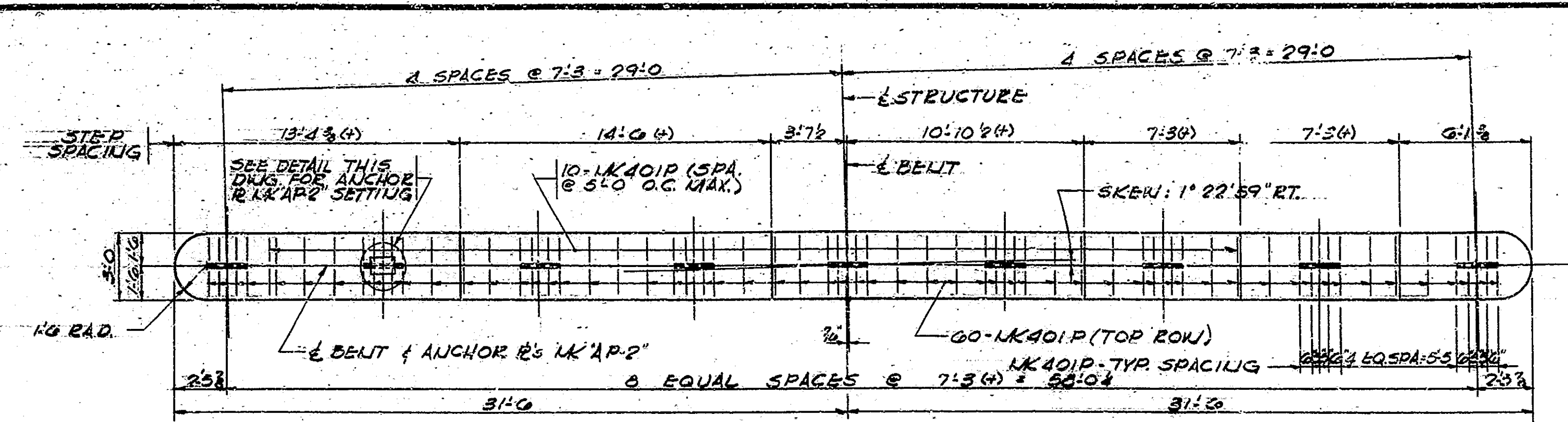
5-1-72 BKJ/WFG

BRIDGES OVER 20' SPAN					
PUB. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	165-3(109)	1970	7	23

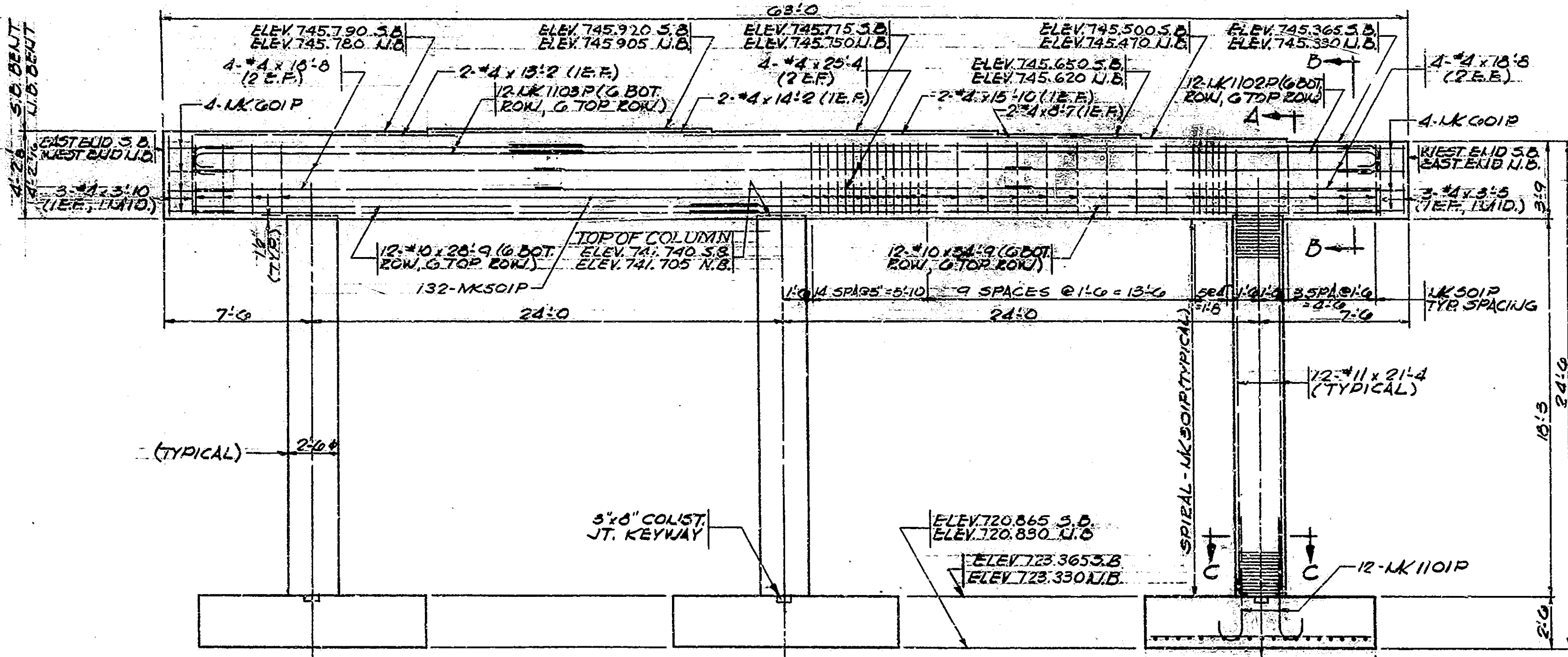
BILL OF MATERIALS
ONE BENT ONLY

SIZE	NO. PCS.	LENGTH	WEIGHT
1101P	36	7'0"	
1102P	12	25'0"	
1103P	12	21'0"	
#11	36	21'0"	
TOTAL			9,756*
#10	12	34'9"	
#10	12	28'9"	
TOTAL			3,279*
#7	114	7'0"	
TOTAL			2,508*
601P	8	8'0"	
TOTAL			90*
501P	132	9'7"	
TOTAL			1,319*
401P	70	5'8"	
#4	4	25'0"	
#4	8	18'0"	
#4	2	15'0"	
#4	2	14'0"	
#4	2	13'0"	
#4	2	8'0"	
#4	3	5'10"	
#4	3	3'6"	
TOTAL			425*
501P	3	18'0"	
TOTAL			547*
TOTAL REINFORCING			18,563*

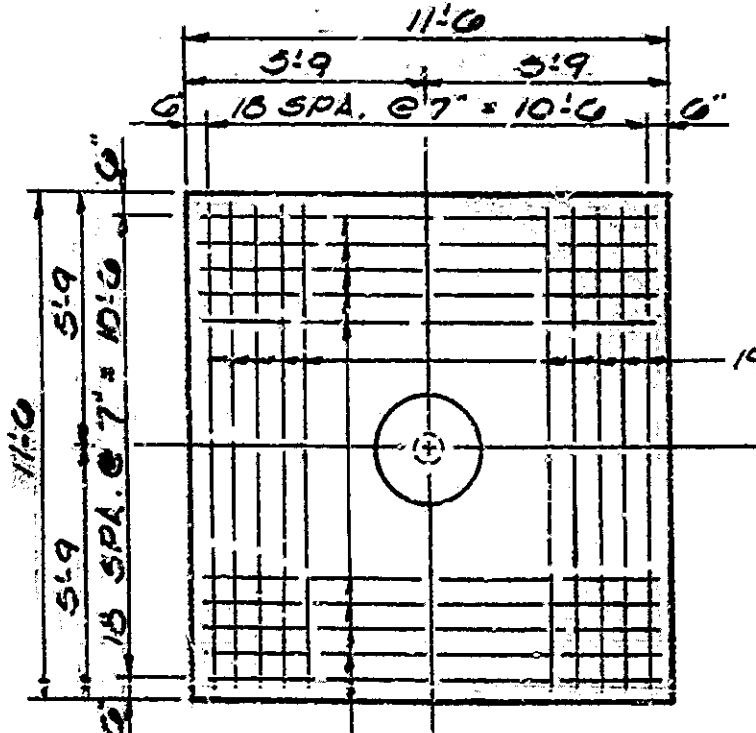
CONCRETE
 CLASS 'A' (CAP) Substr. 20.0 c.v.
 CLASS 'A' (Column) Substr. 10.0 c.v.
 Total Class 'A' Substr. 30.0 c.v.
 CLASS 'B' IN FOOTING 36.7 c.v.
MISCELLANEOUS
 ANCHOR PLATES (KAP-2) 9



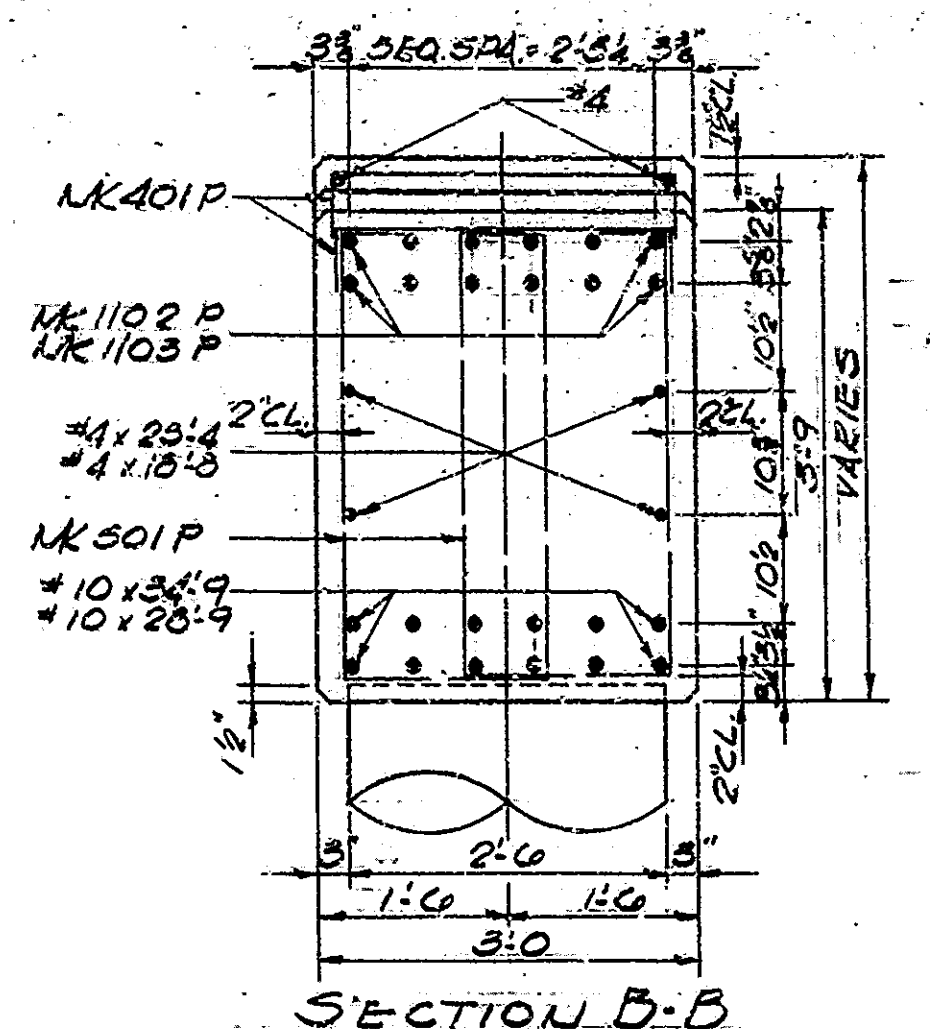
CAP PLAN
SCALE: 1/4" = 1'-0"



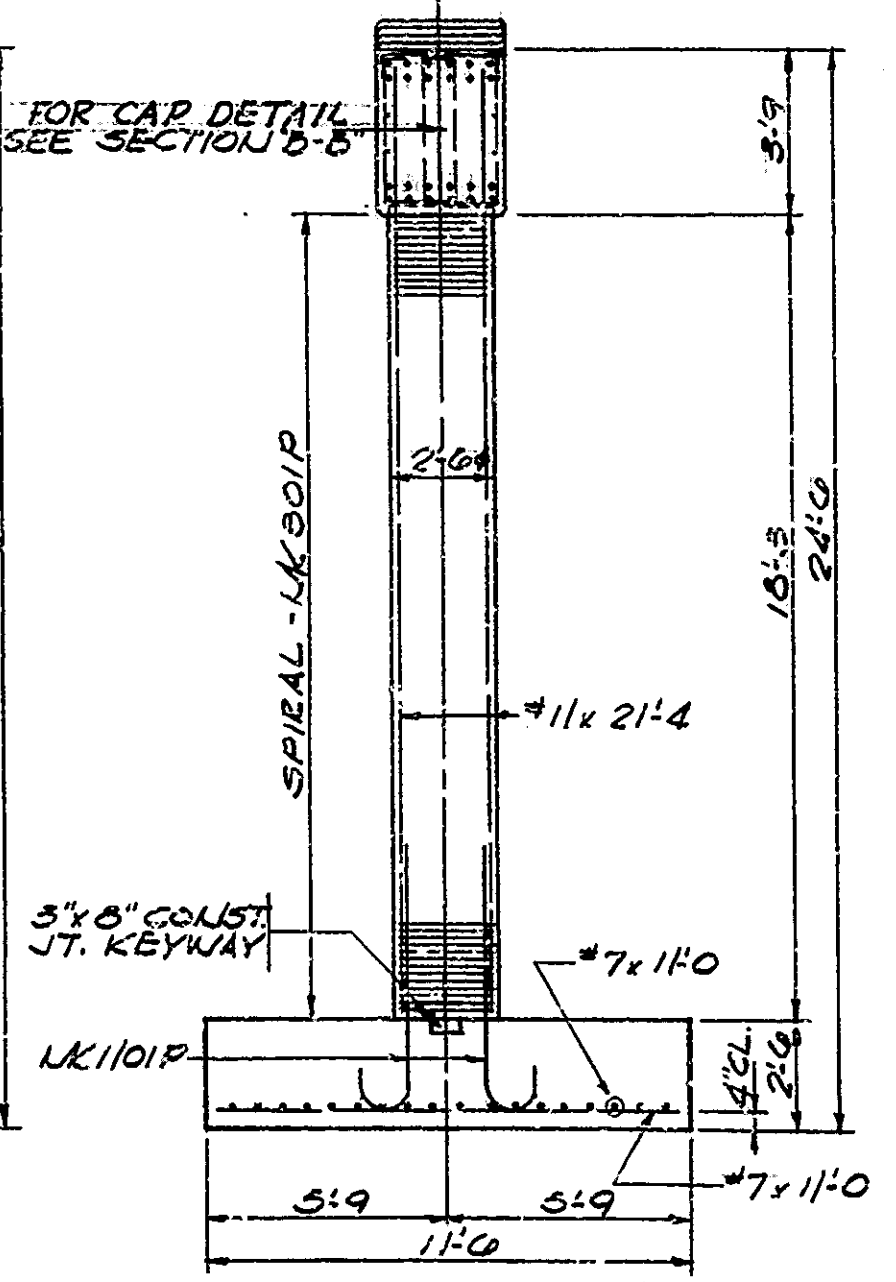
ELEVATION
SCALE: 1/4" = 1'-0"



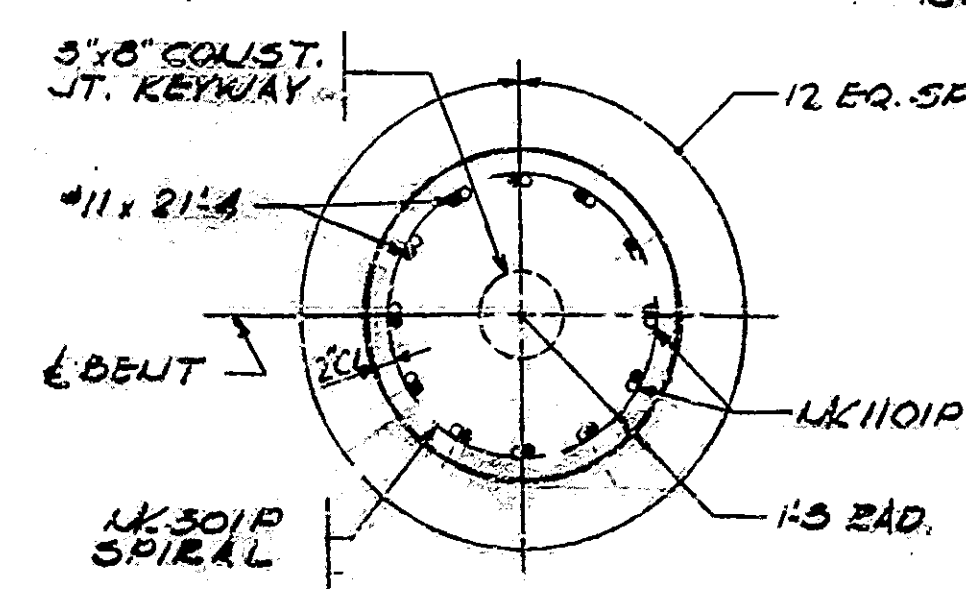
FOOTING PLAN
SCALE: 1/4" = 1'-0"



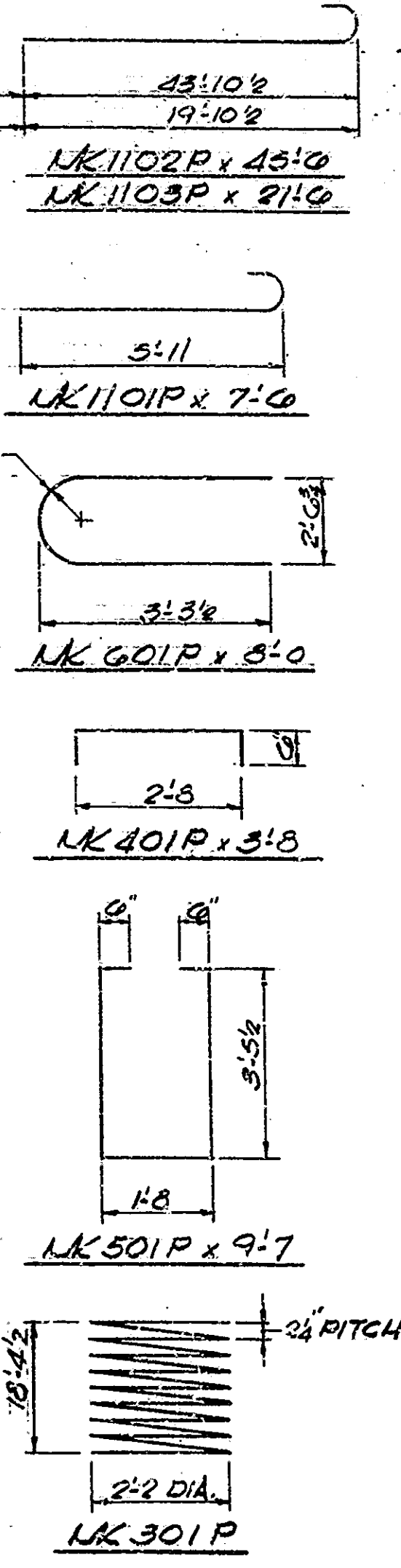
SECTION B-B
SCALE: 1/4" = 1'-0"



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



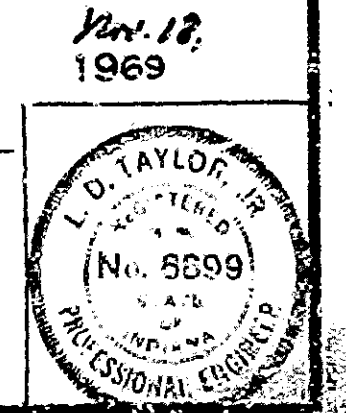
SECTION C-C
SCALE: 1/4" = 1'-0"



ANCHOR PLATE (KAP-2) DETAIL
SCALE: 1" = 1'-0"

BENT NO. 2 N.B. & S.B.
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
 SUBMITTED FOR APPROVAL: *[Signature]*
 DRAWING: S5 OF S11
 PROJECT: I-65-3(109)
 BRIDGE CONTRACT NO. 8-8877
 BRIDGE FILE: ISS-110-5694



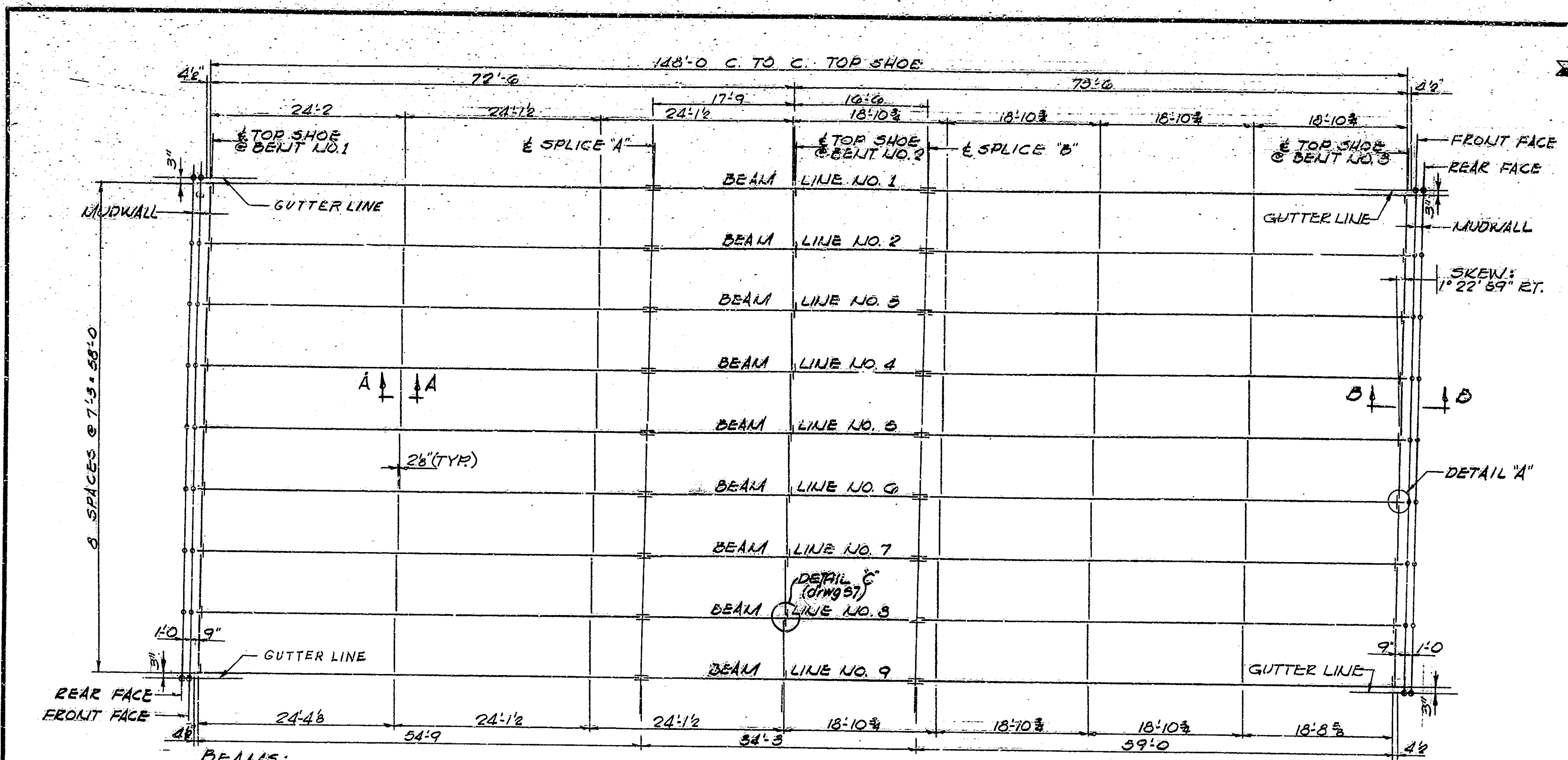
- NOTES:**
- FOR REINFORCING BAR NOTES SEE BRIDGE STANDARD C1.
 - ANCHOR PLATE (KAP-2) TO BE PRESET IN CONCRETE.
 - SEE DRAWING S2 FOR GENERAL NOTES.

DESIGN: E.C.F. CKD C.D.H.
 DRAWN: W.O.U. CKD E.C.F.
 TRACED: CKD

Rev. 3-1-73. Note: Bill of Matls.

PROJECT NO.	LINE NO.	SHEET NO.	TOTAL SHEETS	FILE
I-65-3(109)	I-65	7	23	I-65-110-5694

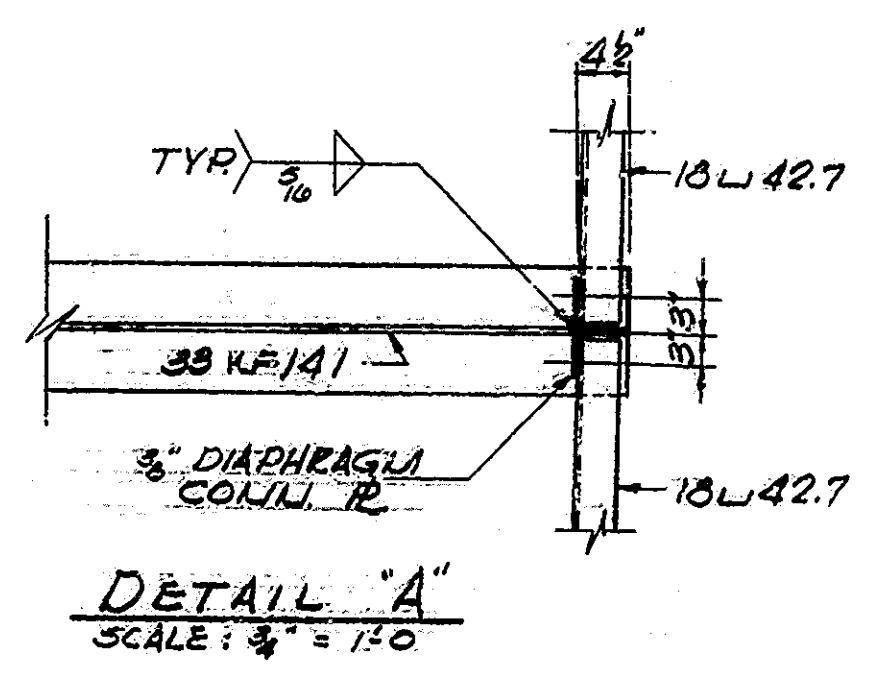
BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	265-3 (I-65) 109	1970	8	23



BEAMS:
ALL BEAMS 33 WF 141

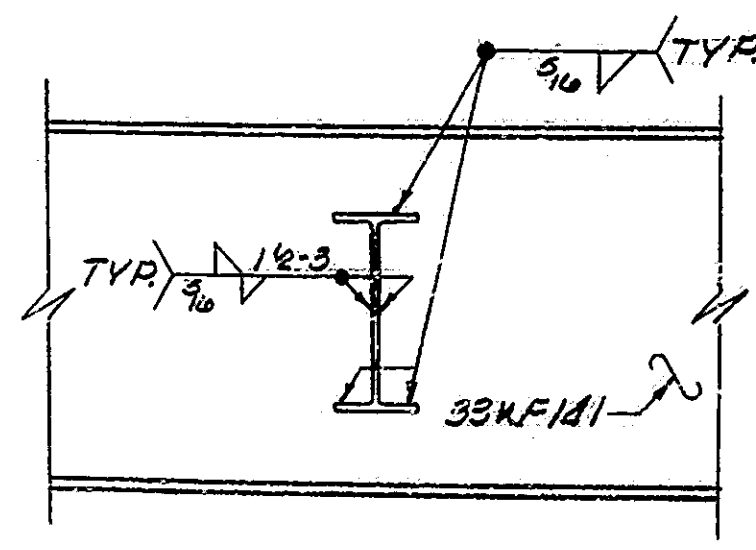
FRAMING PLAN
SCALE: 1/8" = 1'-0"

DIAPHRAGMS:
INTERIOR - 18 WF 43
EXTERIOR - 18 L 42.7

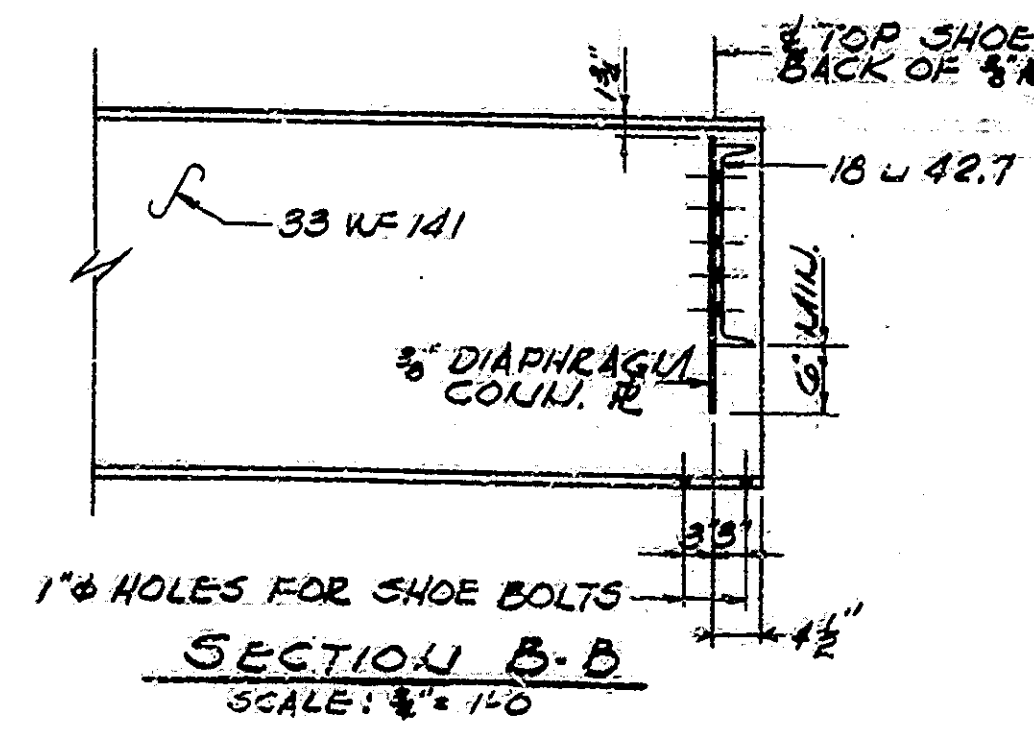


DETAIL 'A'
SCALE: 1/4" = 1'-0"

BEAM LINE NO.	W. GUTTER	NORTHBOUND								SOUTHBOUND								E. GUTTER		
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8			
		FRONT F.	REAR F.	FRONT F.	REAR F.	FRONT F.	REAR F.	FRONT F.	REAR F.	FRONT F.	REAR F.	FRONT F.	REAR F.	FRONT F.	REAR F.	FRONT F.	REAR F.			
BEAM LINE NO. 1		749.205	749.275	749.335	749.325	749.260	749.178	749.050	748.900	748.750	748.785	748.930	749.080	749.200	749.280	749.345	749.350	749.285	749.215	
BEAM LINE NO. 3		750.760	750.830	750.890	750.880	750.815	750.730	750.605	750.455	750.305	750.340	750.485	750.635	750.755	750.835	750.900	750.905	750.840	750.765	



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



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

Materials as listed on shop drawings which do not require mill test reports may be changed from that shown on the contract plans subject to approval. The material specifications shall be given on the shop drawings if different than that on contract plans. See Part 711.07 of the specifications.

DATA USED FOR DESIGN AND DETAILS

LIVE LOAD - HS20-44 LOADING WITH IMPACT AND DISTRIBUTION OF LOADS IN ACCORDANCE WITH 1969 AASHTO SPECIFICATIONS CHECKED FOR SPECIAL LOADING CONSISTING OF 2-24,000 POUND AXLES SPACED 4'0" APART.

DEAD LOAD - ACTUAL WEIGHT PLUS 33 POUNDS PER SQ. FT. OF ROADWAY TO PROVIDE FOR FUTURE WEARING SURFACE.

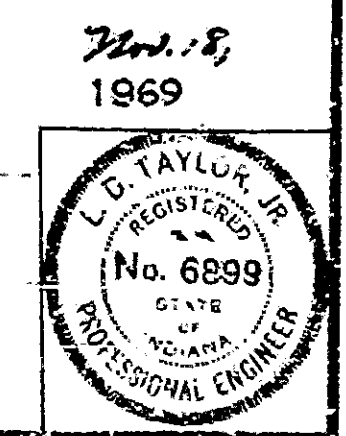
SLAB - DESIGNED FOR 16,000 POUND WHEEL PLUS IMPACT AND WITH 1" WEARING SURFACE.

ALLOWABLE STRESSES: TO BE IN ACCORDANCE WITH 1969 AASHTO SPECIFICATIONS.

- GENERAL NOTES**
- HIGH STRENGTH BOLTS SHALL BE USED IN THE ASSEMBLY OF STRUCTURAL STEEL.
 - H.S. BOLTS ARE 7/8" OPEN HOLES UNLESS NOTED.
 - HOLES IN ALL MEMBERS CONNECTING TOP SHOES TO BEAM FLANGES SHALL BE 1" BOLTS CONNECTING BEAM FLANGES TO TOP SHOE SHALL EXTEND INTO TOP SHOE A MINIMUM OF 1".
 - HOLES FOR BEAM SPLICES SHALL BE SUBPUNCHED OR SUBDRILLED AND REAMED TO SIZE WHILE ASSEMBLED. SEE ARTICLE 711.24 OF THE SPECIFICATIONS.
 - THE SHOP PLANS SHALL INDICATE WHETHER REAMING IS TO BE DONE IN SHOP OR FIELD. IF SHOP REAMING OR DRILLING IS USED THE BEAMS SHALL BE ASSEMBLED IN ACCORDANCE WITH THE 1/10 LOAD CAMBER AND REAMING DIAGRAM, DWG. 58.
 - ALL FIELD SPLICES ARE OPTIONAL (EXCEPT AS NOTED) SUBJECT TO REGULATIONS PERTAINING TO THE MOVEMENT OF OVER LENGTH CONCRETE AND STEEL BEAMS ON STATE HIGHWAYS, AS STATED IN SUPPLEMENT NO. 2 TO GENERAL SPECIFICATIONS DATED 4-19-71. SHOP PLANS SHALL INDICATE WHICH SPLICES THE CONTRACTOR INTENDS TO ELIMINATE AND ALSO MEANS OF TRANSPORTATION WEATHER BY RAIL OR OVER STATE HIGHWAYS.
 - THE SHOP DETAILS SHALL SHOW A PLAN OF MATCHMARKS.
 - NO BAR ALL WELDED JOINTS.
 - ALL SPLICE PLATES SHALL BE REMOVED, CLEANED, AND DEBURRED AFTER REAMING. SPLICE PLATES SHALL NOT EXTEND BEYOND THE END OF BEAM AFTER BOLLING OF SHIPMENT.
 - FLANGE SPLICE BARS SHALL HAVE BOLLING OF 1/4" END EDGES AND HOLES IN BARS SHALL BE SUBDRILLED AND REAMED OR DRILLED FULL SIZE WHILE ASSEMBLED.
 - BEAMS MUST BE CAMBERED TO A SMOOTH CURVE CAMBER MUST BE CHECKED WHILE BEAMS ARE SUPPORTED IN SUCH A MANNER AS TO HAVE NO BENDING MOMENT IN DIRECTION OF CAMBER.
 - PAINTING STRUCTURAL STEEL: ALL PAINT SHALL BE IN ACCORDANCE WITH CURRENT HIGHWAY SPECIFICATIONS. SHOP AND FIELD COAT: BASIC LEAD SILICO CHROMATE. SEE SPECIAL PROVISIONS.
 - NO PAINT ON ANCHOR PLATES OR SHEAR CONNECTORS.
 - 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 FIVE (5) COPIES OF THESE TO THE ENGINEER. SEE ART. 711.04 OF SPECIFICATIONS.
 - AS SOON AS THE ENGINEER HAS APPROVED THE FIELD WELDS, ALL WELDS AND ALL SURFACE FROM WHICH THE SHOP COAT HAS BEEN OMITTED OR BECOMES KNOWN OR OTHERWISE HAS BECOME DEFECTIVE SHALL BE CLEANED OF ALL CARBIDE PAINT OR ANY FOREIGN MATTER AND COMPLETELY COVERED WITH ONE COAT OF SHOP PAINT.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A36.
 - SHIMS BETWEEN BEAMS AND TOP SHOES MAY BE BUILT-UP. NO SHIMS SHALL BE LESS THAN 1/2" THICKNESS.
 - THE WEIGHT OF HIGH STRENGTH BOLTS IS NOT INCLUDED IN THE WEIGHT OF STRUCTURAL STEEL. THE COST OF THESE BOLTS SHALL BE INCLUDED IN THE COST OF THE STRUCTURAL STEEL.
 - STRUCTURAL STEEL FOR WELDING MAY BE FLAME CUT IF THE FLAME CUTTING EQUIPMENT IS MECHANICALLY GUIDED. HAND FLAME CUTTING SHALL BE USED ONLY WHEN APPROVED AND THE SURFACE IS FURTHER TREATED BY MILLING, GRINDING, OR CHIPPING AND GRINDING.
 - DIAPHRAGM CONNECTIONS TO BEAMS MAY BE BOLTED IN LIEU OF FIELD WELDED CONNECTIONS. IF THE CONTRACTOR ELECTS TO USE CONNECTIONS OTHER THAN SHOWN IN THE CONTRACT PLANS HE SHALL SUBMIT DETAILS TO THE ENGINEER FOR APPROVAL. HE SHALL ASSUME FULL RESPONSIBILITY FOR THE ACCURACY OF ALL DIAPHRAGM CONNECTIONS AND FOR THE ACCURACY OF ALL FITTED PARTS. NO INCREASE IN PAY WEIGHT WILL BE PERMITTED.
 - ESTIMATED WEIGHT OF STRUCTURAL STEEL: (ONE STRUCTURE ONLY) - 156,272,200

**FRAMING PLAN
INDIANA STATE HIGHWAY COMMISSION**

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *[Signature]*
DRAWING: S6 OF S11
PROJECT: I-65-3(63)109
CONTRACT NO. B-8877
BRIDGE FILE: I-65-110-5694

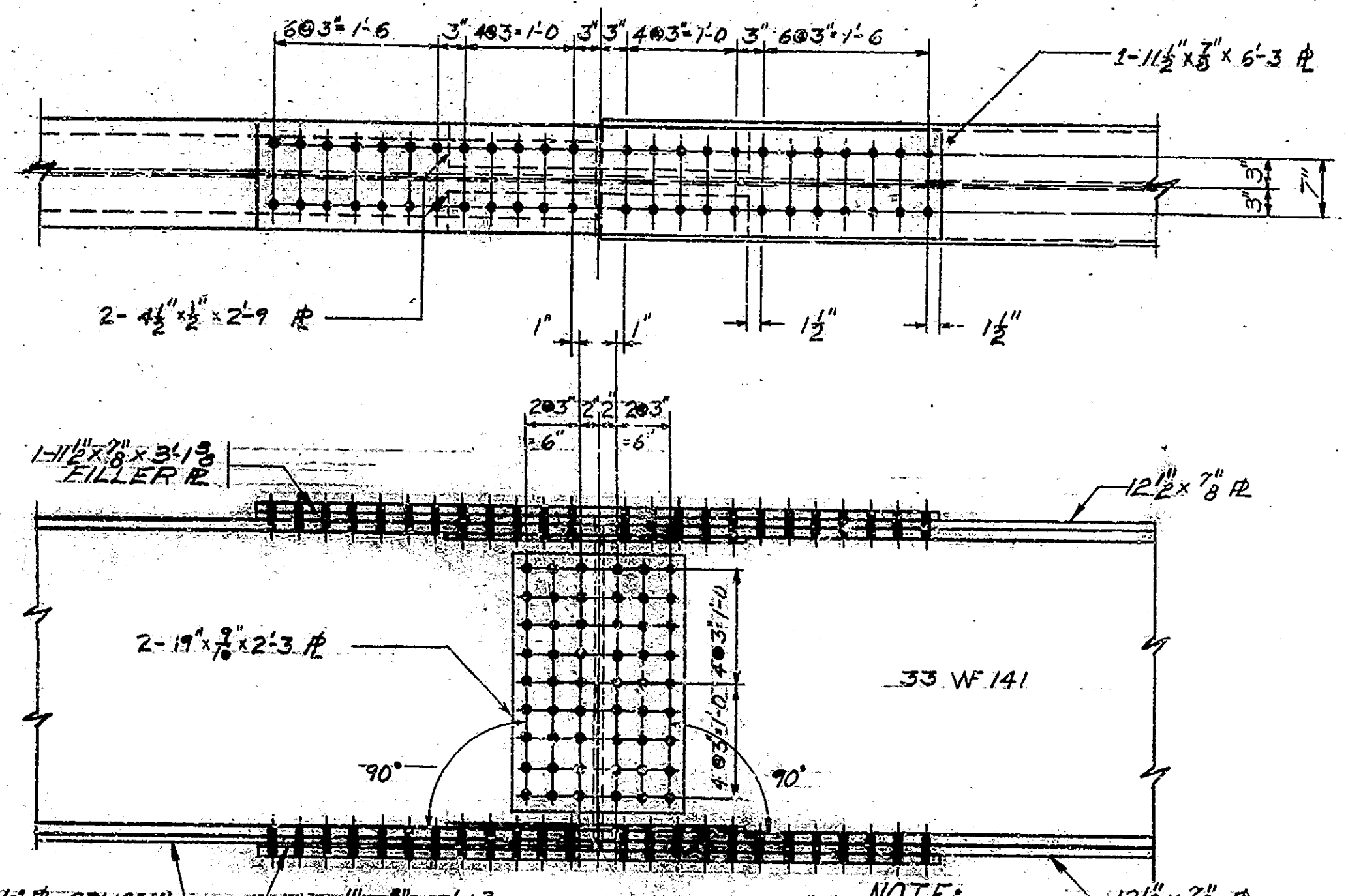


DESIGNED: J.C.B. CKD: DRW
DRAWN: W.G.A. CKD: E.C.F.
TRACED: C.K.O.

Rev. 5-1-72 Gen. Notes, Allow Stresses, Detail 'E' Rev. 1-30-73 Gen. Notes

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
I-65-3(63)109	2-65	8	23	I-65-70-5694

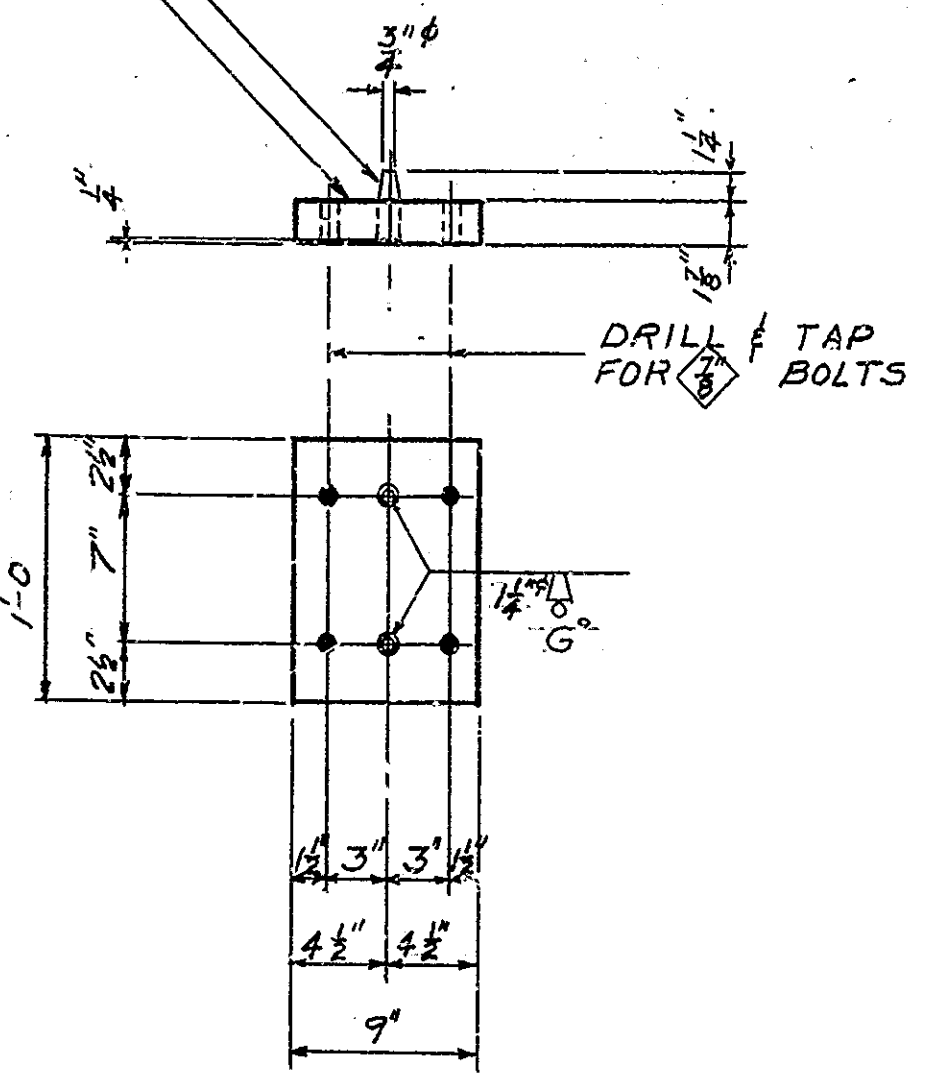
BRIDGES OVER 20' SPAN					
FHA ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3 (I-65-3)	1970	9	23



NOTE: BOTTOM FLANGE SPLICE MATERIAL SAME AS TOP FLANGE

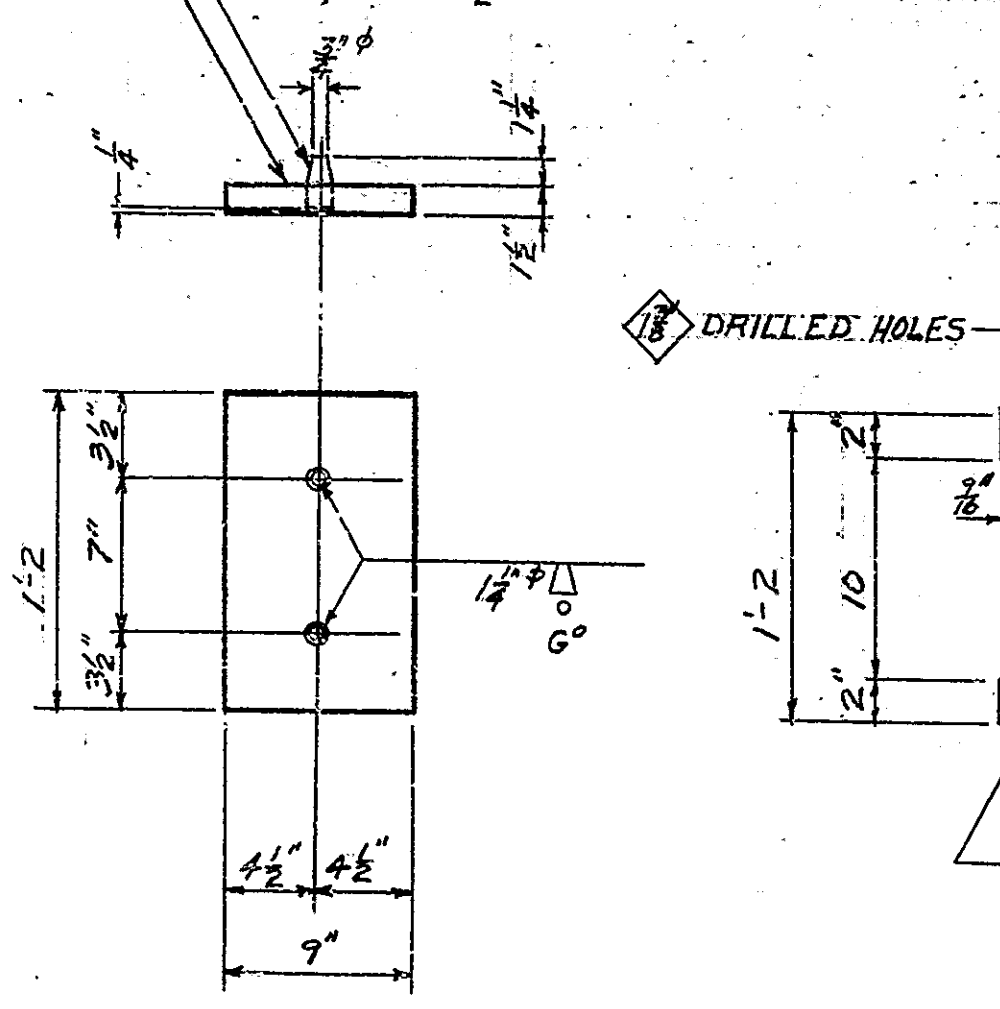
TYPICAL SPLICE DETAIL
SCALE 1"=1'-0"

1-9" x 1 1/2" x 1'-0" (STRAIGHTEN)
2-1 1/2" x 0-2 1/2" STUDS (DRIVING FIT)

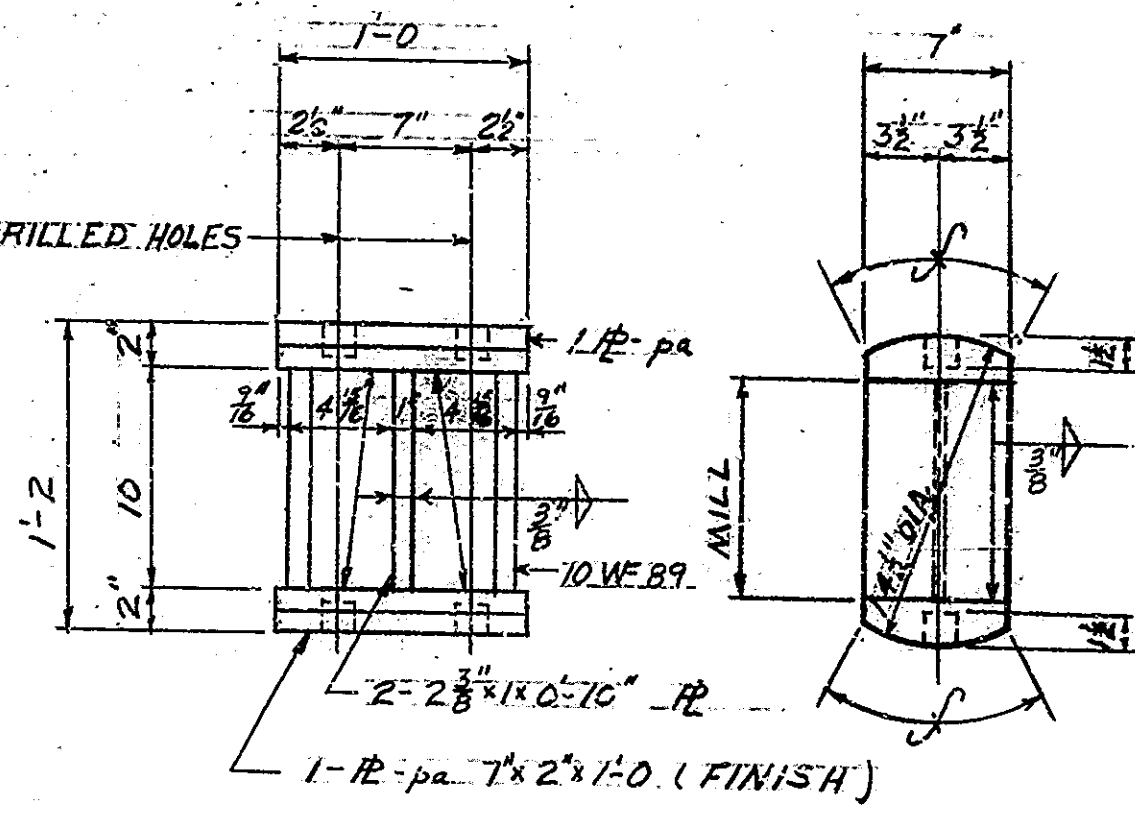


TOP SHOE
BENTS NO. 1 & NO. 3

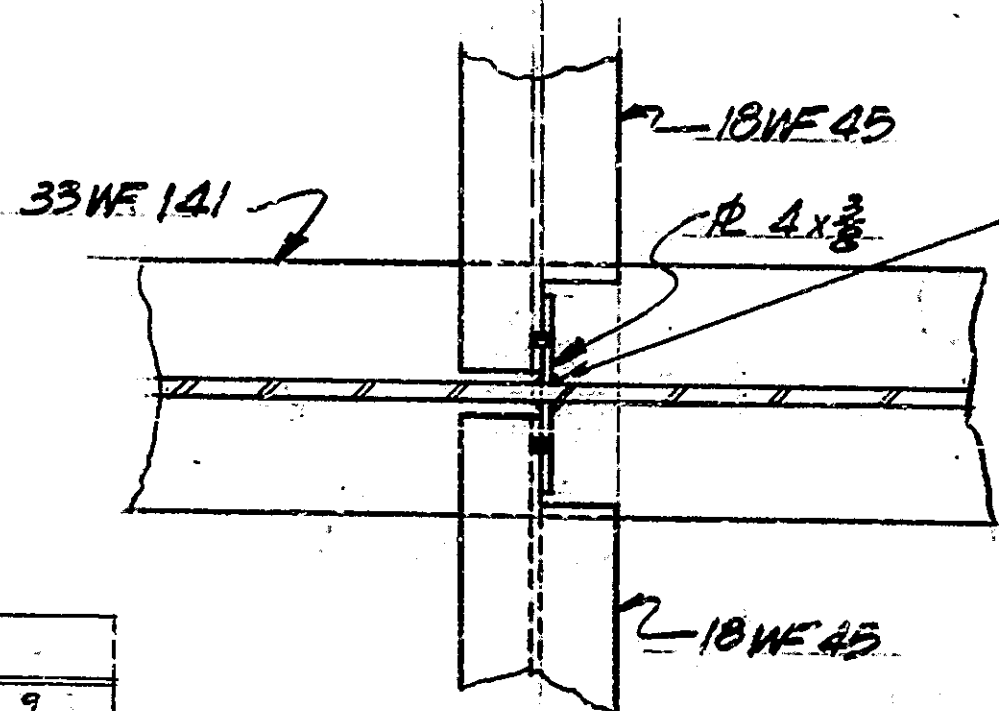
1-9" x 1 1/2" x 1'-2" (STRAIGHTEN)
2-1 1/2" x 0-2 1/2" STUDS (DRIVING FIT)



EXPANSION PLATE
BENTS NO. 1 & NO. 3

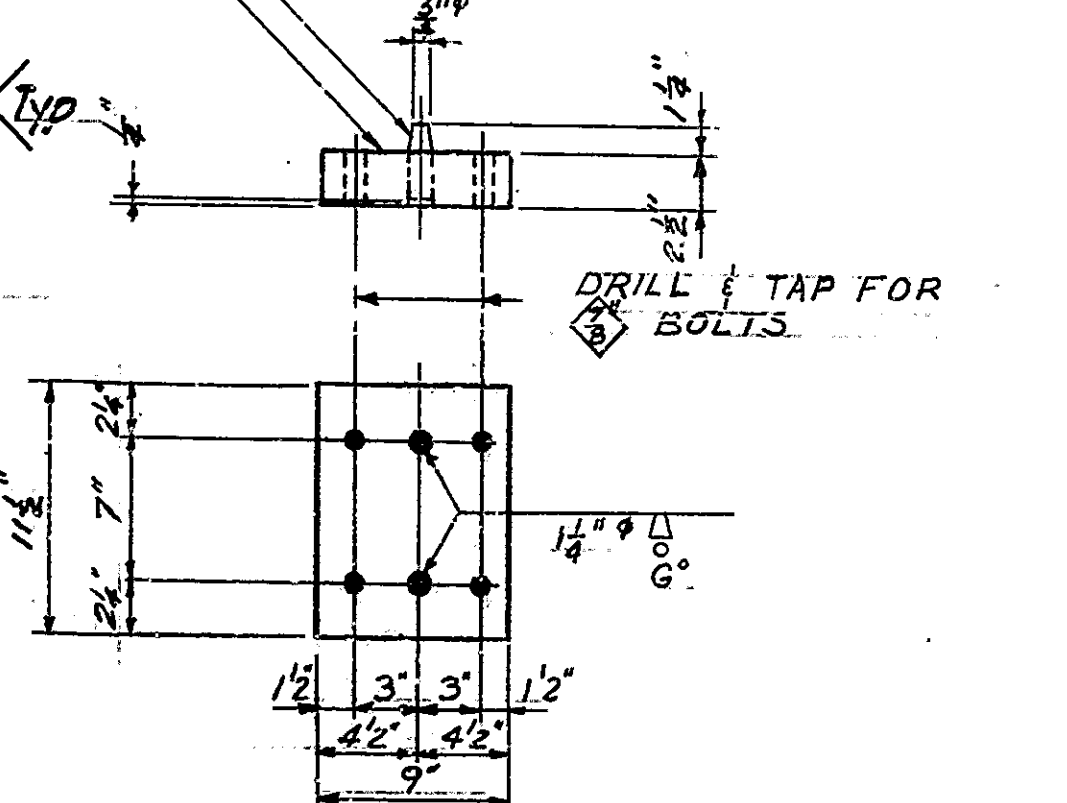


EXPANSION SHOE
BENTS NO. 1 & NO. 3

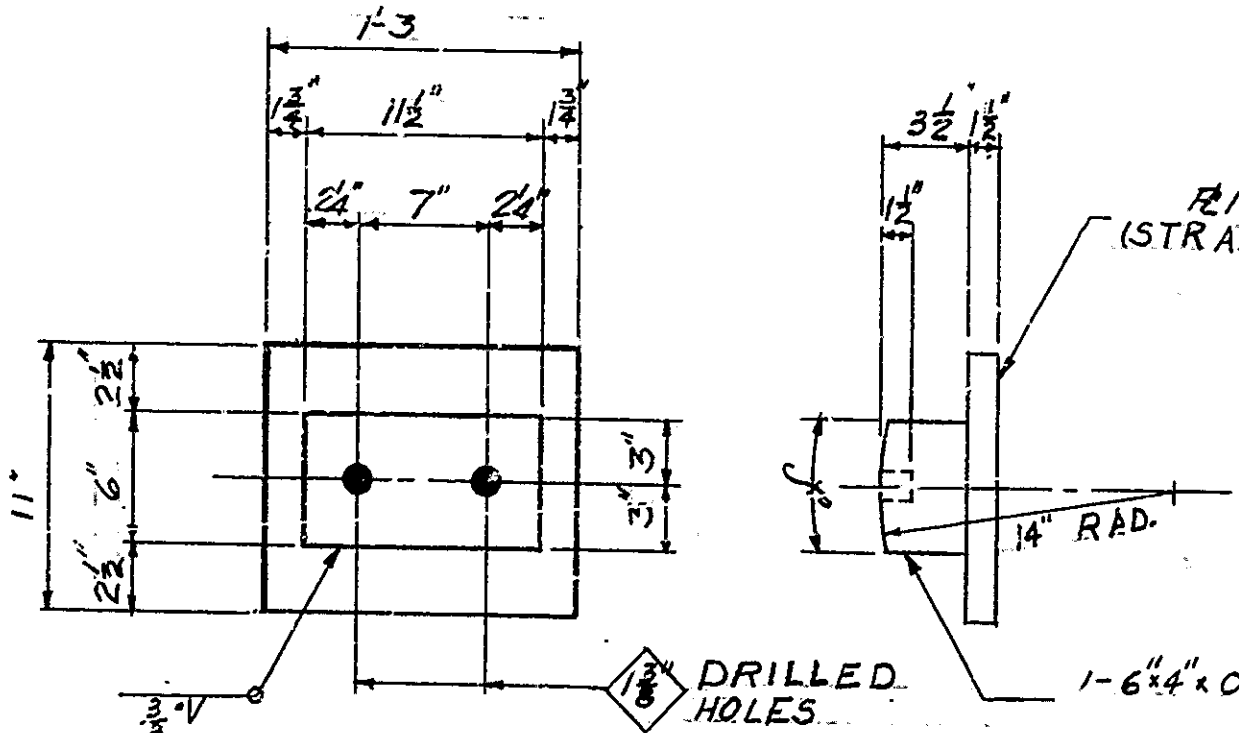


DETAIL "C"

1-9" x 2 1/2" x 0-1 1/2" (FINISH) FROM 9" x 2 1/2" x 0-1 1/2" PL
2-1 1/2" x 0-3 1/2" STUDS (DRIVING FIT)



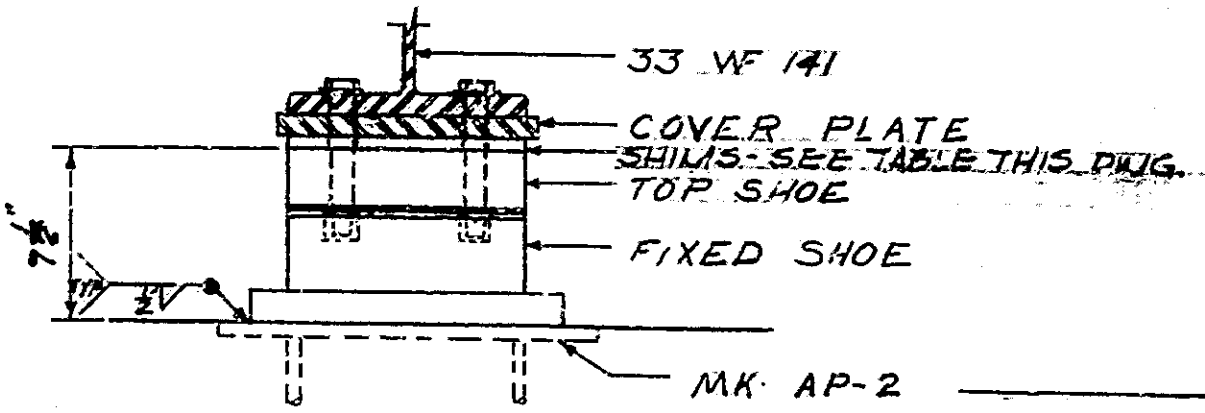
TOP SHOE
BENT NO. 2



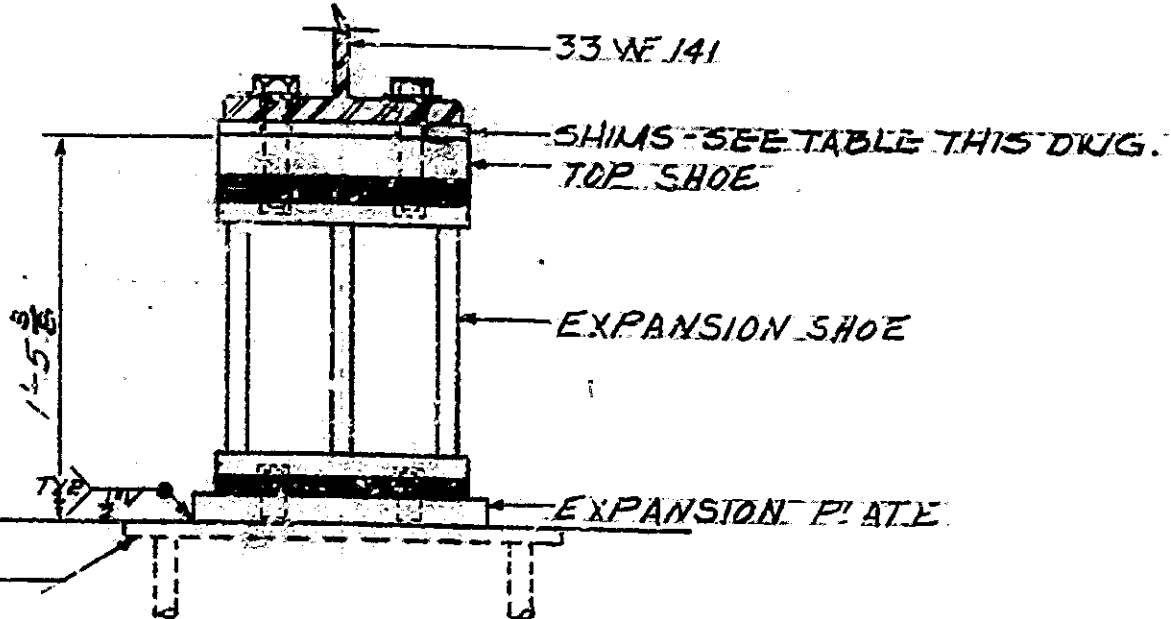
FIXED SHOE - BENT NO. 2

TABLE OF SHIMS									
LINE	1	2	3	4	5	6	7	8	9
BENT #1	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
BENT #2	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
BENT #3	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
BENT #2	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
BENT #3	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"

NOTE: SHIMS BETWEEN BEAMS AND TOP SHOES MAY BE BUILT UP. NO SHIMS SHALL BE LESS THAN 1/8" IN THICKNESS.



FIXED SHOE ASSEMBLY
BENT NO. 2



EXPANSION SHOE ASSEMBLY
BENTS NO. 1 & NO. 2

NOTES:
1. FOR GENERAL NOTES SEE DWG. S6.
2. ALL MATERIALS TO BE ASTM. A36 UNLESS OTHERWISE NOTED.
3. CURVED SURFACES OF SHOES TO BE MACHINED AFTER WELDMENTS HAVE BEEN COMPLETED.
4. SEE DWG. S6 FOR LOCATION OF DETAIL "C"

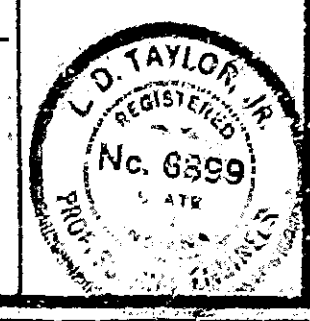
SHOE AND SPLICE DETAILS
INDIANA STATE HIGHWAY COMMISSION

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

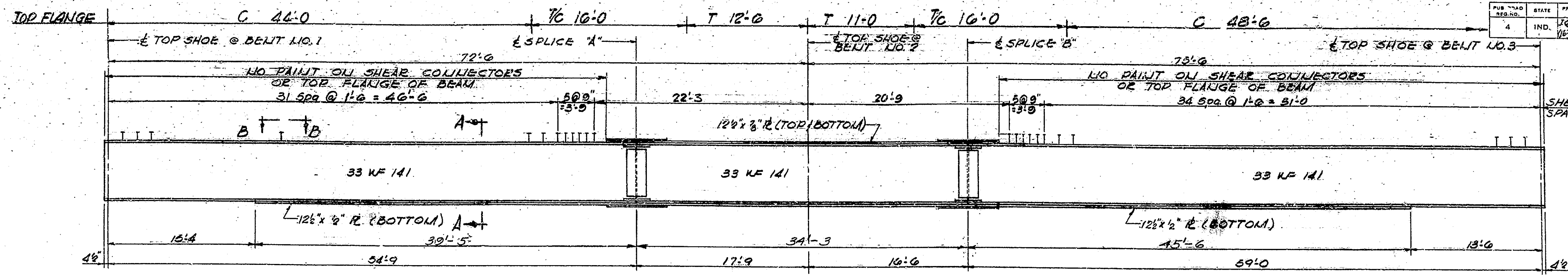
SUBMITTED FOR APPROVAL: L. D. Taylor

DESIGNED: VEB C.K.D. DRW
DRAWN: C.D.H. C.K.D. DRW
TRACED: C.K.D.
PROJECT: S7 OF S11
PROJECT: I-65-3(63)109
CONTRACT NO. B-8877
BRIDGE FILE: I-65-110-5694

Nov 18, 1969

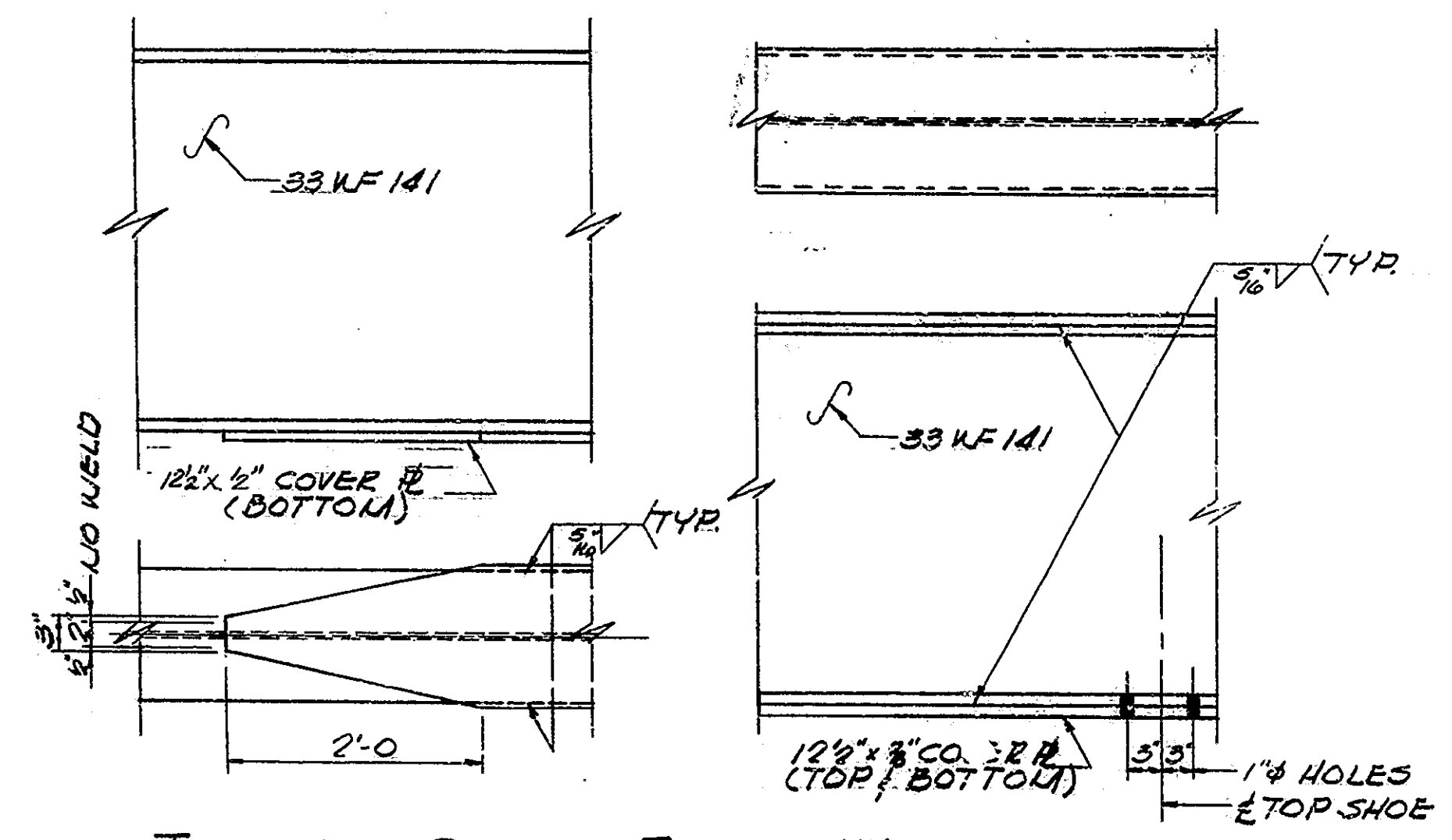


BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	165-3(163)109	1970	10	23

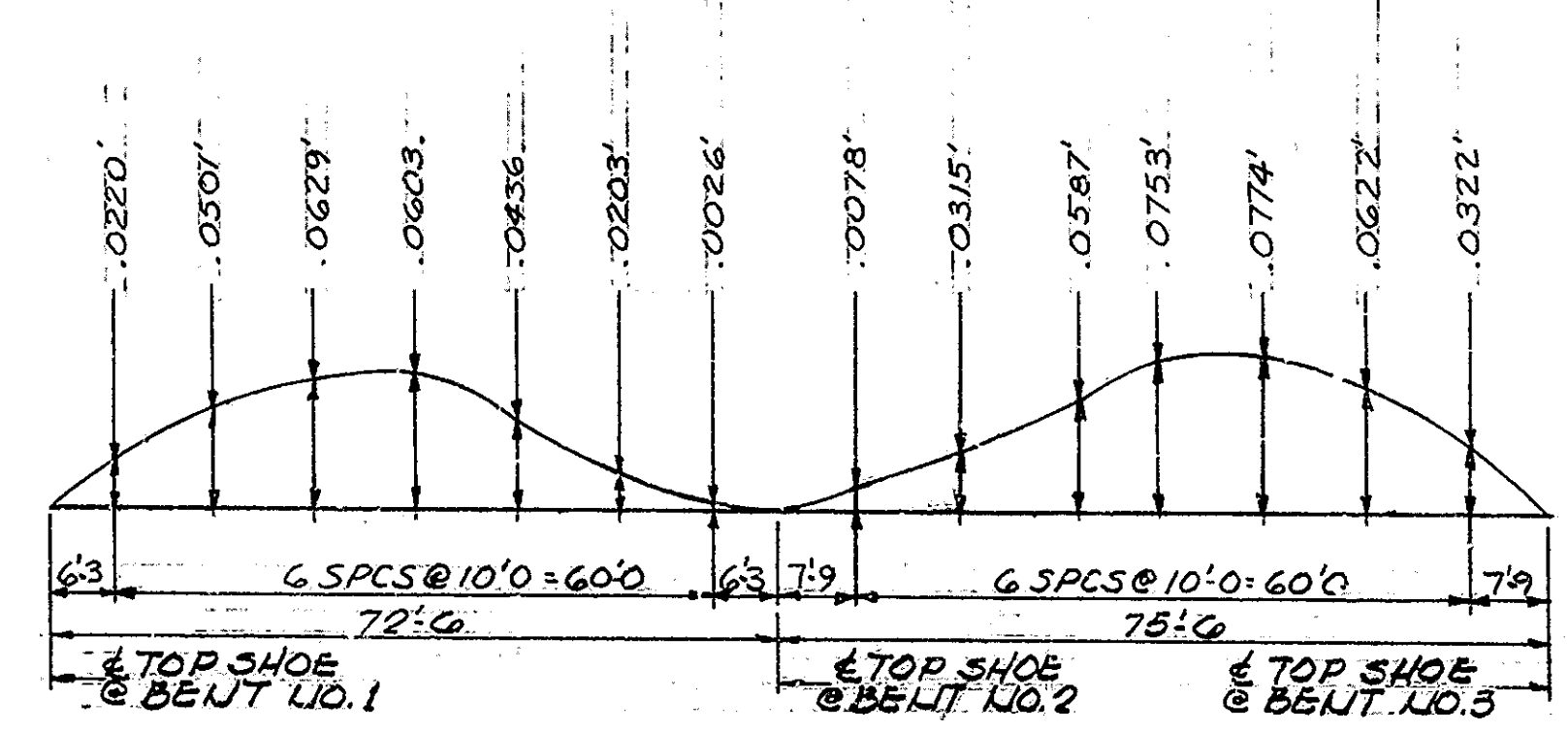


BEAM ELEVATION
SCALE: HORIZ. - 1/4"=1'-0"
VERT. - 1/8"=1'-0"

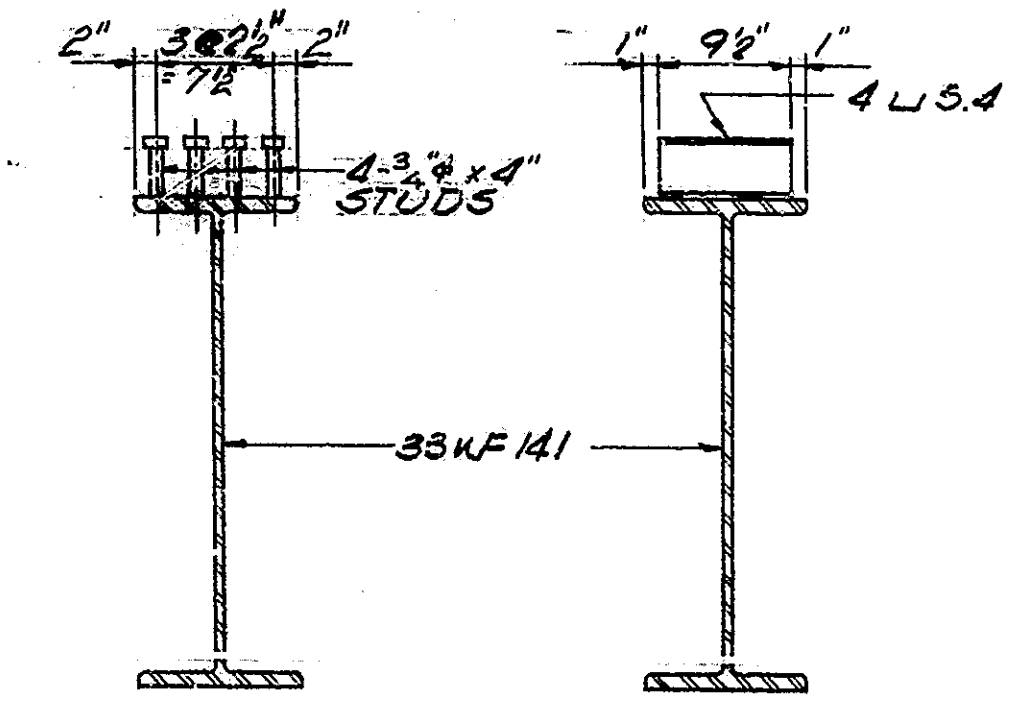
T - TENSION
C - COMPRESSION
TC - TENSION & COMPRESSION



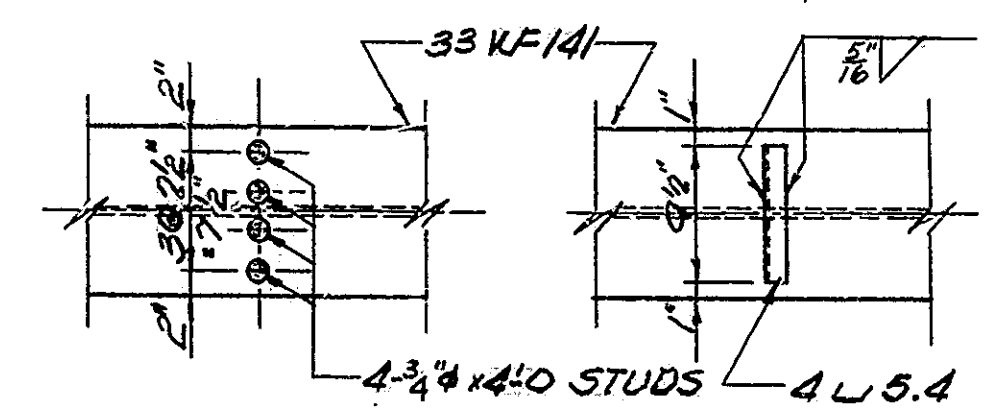
TYPICAL COVER PLATE WELDING DETAILS
SCALE: 1"=1'-0"



DEAD LOAD DEFLECTION DIAGRAM
SCALE: HORIZ. - 1/8"=1'-0"
VERT. - 1"=1'-0"



SECTION A-A SCALE: 1/2"=1'-0"
ALTERNATE SECTION A-A SCALE: 1/2"=1'-0"



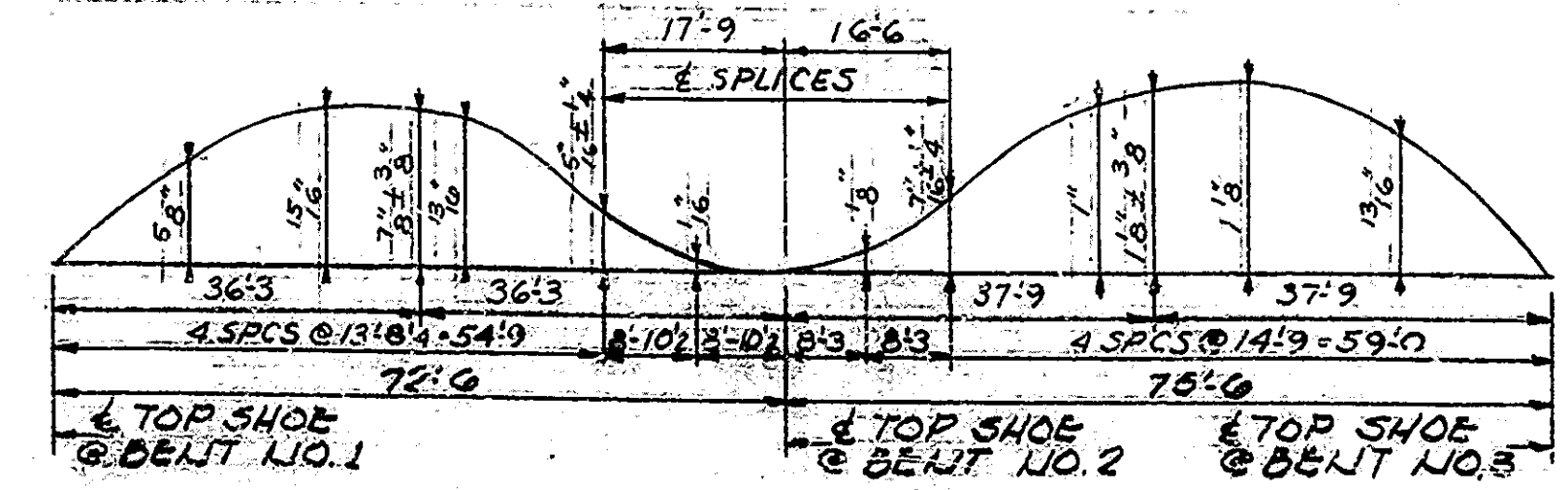
VIEW B-B SCALE: 1"=1'-0"

BEAM NO.	1	2	3	4	5	6	7	8	9
SPLICE A	749.210	749.280	749.340	749.395	749.460	749.510	749.580	749.635	749.700
SPLICE B	749.570	749.640	749.700	749.765	749.825	749.890	749.940	749.995	749.110
SPLICE A	749.785	749.850	749.910	749.975	749.105	749.160	749.210	749.265	749.315
SPLICE B	749.145	749.210	749.270	749.335	749.395	749.450	749.505	749.560	749.610

SPLICE ELEVATIONS
NO SCALE

Structural steel shall be erected using sufficient full size drift pins to permit placement of bolts without damage thereto and to facilitate setting splices to grade.
At the time of erection, not less than 50 percent of the holes in any connection shall be filled with bolts. The bolts shall not be tightened more than snugtight at this stage.
Any drifting required shall be only such that will draw the parts into position but not sufficient to enlarge the holes or distort the metal. Unfair holes shall be reamed or drilled.

The shop plans shall indicate whether reaming or drilling is to be done in shop or field. If shop reaming or drilling is used the beams shall be assembled in accordance with no load camber and reaming diagram. If the beams are shop reamed or drilled, full size drift pins shall be used in erection.

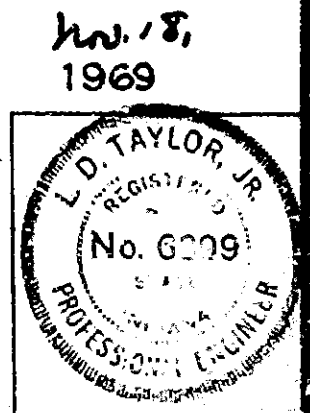


NO LOAD CAMBER & REAMING DIAGRAM
SCALE: HORIZ. - 1/8"=1'-0"
VERT. - FULL SIZE

- NOTES:
- FOR SPLICE DETAIL SEE DRAWING 57.
 - THE CONTRACTOR MAY USE WELDED CHANNELS OR (6") WELDED STUDS AS ALTERNATE SHEAR CONNECTORS. IF USED THEY SHALL HAVE EQUIVALENT SHEAR VALUE AND THE PROPOSED SIZE AND SPACING SUBMITTED FOR APPROVAL.
 - FOR GENERAL NOTES SEE DRAWG. 50.

STEEL BEAM DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *L. D. Taylor*
DRAWING: S8 of S11
PROJECT: I65-3(163)109
BRIDGE CONTRACT NO. B-8877
BRIDGE FILE: I65-110-5004



5-1-72 MMS:MMW
1-30-71 JWW/pwg/JRW/H
8-3-73 JWW/SDM/D.L.

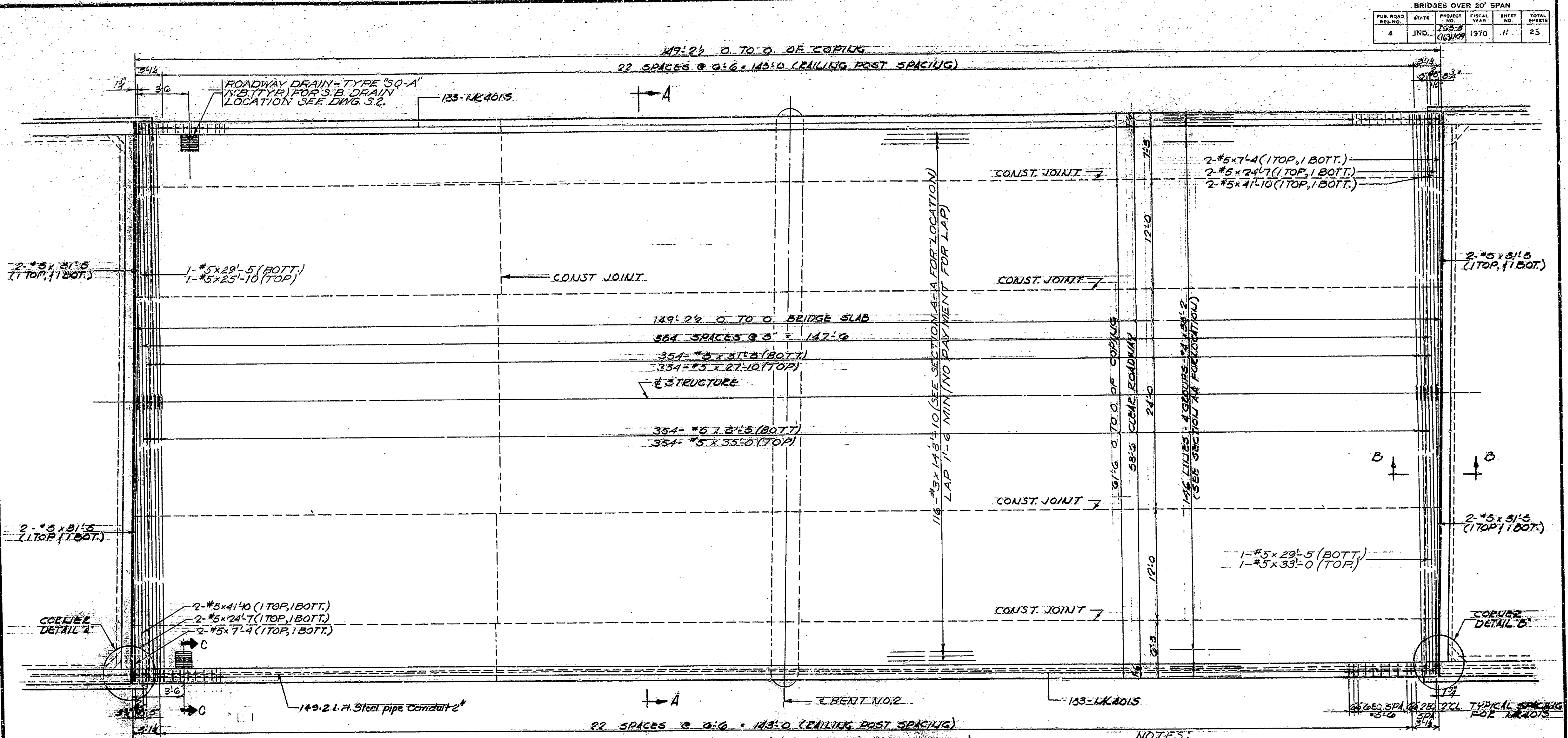
DESIGNED: J.G.B. C.W.D. DRW
DRAWN: W.O.M. C.W.D. E.C.E.
TRACED: C.W.D.

REV 8-3-73 Notes
REV 5-1-72 Shop Conn. Notes
REV 1-30-73 Note

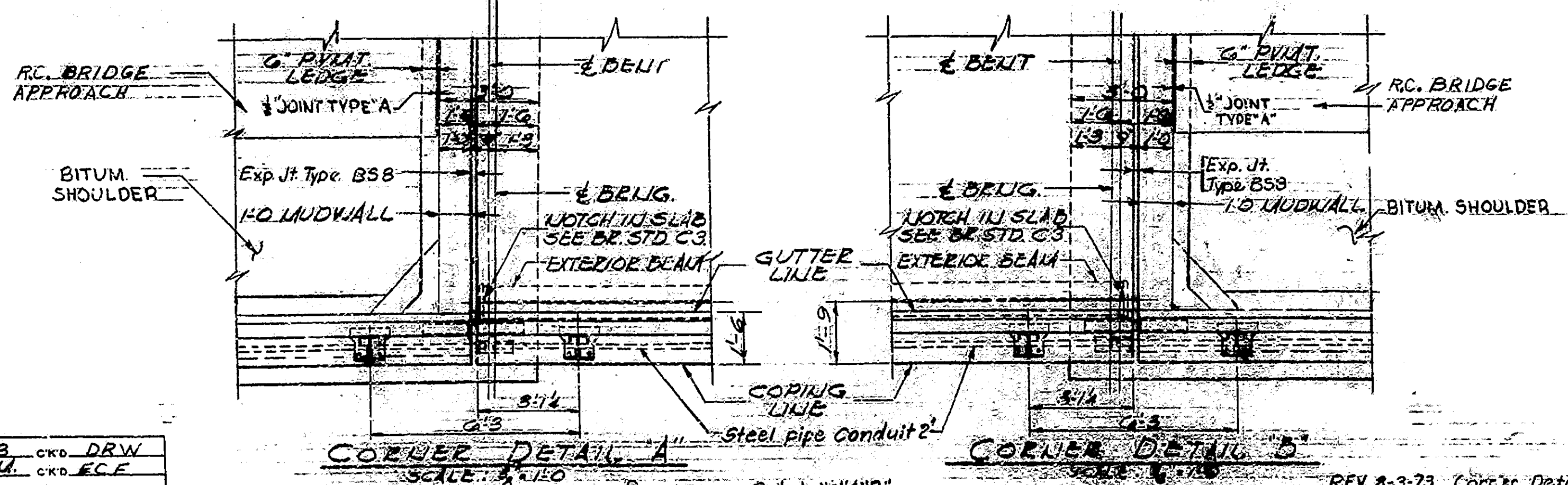
Splice elevations are with bolthole removed and cutting steel dead lead only. Top or beam splice plates shall be adjusted to the above elevations before bolting field splices.

PROJECT NO.	LINE NO.	SHEET NO.	TOTAL SHEETS	FILE
I-65-3(163)109	I-45	10	23	I-65-110-5004

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	165-3(163)109	1970	11	25



U.B. SUPERSTRUCTURE PLAN (S.B. BY 180° ROTATION)
SCALE: 1/8" = 1'-0"

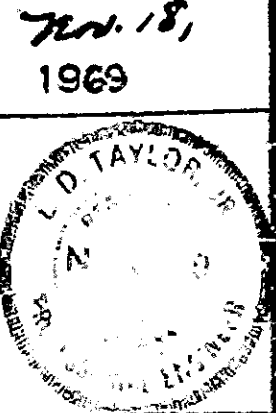


See Drwg S10A for Overlay & Exp. Joint Type B58 Details

- NOTES:**
- FOR BILL OF MATERIAL, SCHEDULE OF POURS, AND SECTIONS A-A, B-B, & ROADWAY DRAIN DETAIL SEE DWG. S10.
 - SEQUENCE OF POURS TO BE MADE IN ORDER OF POUR NUMBERS. ALL SUPERSTRUCTURE CONSTRUCTION JOINTS ARE OPTIONAL EXCEPT AS NOTED AND POURS MAY BE MADE CONTINUOUS PROVIDED THE POUR TERMINATES AT A CONSTRUCTION JOINT INDICATED ON THE PLANS SEE DWG. S-10.
 - THE CONTRACTOR MAY CHANGE THE WIDTHS OF POURS, SEQUENCE OF POURS OR LOCATION OF THE CONSTRUCTION JOINTS SUBJECT TO THE APPROVAL OF THE ENGINEER.
 - FOR ADDITIONAL SUPERSTRUCTURE NOTES SEE DWG. S-10

SUPERSTRUCTURE
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *S. D. Angley*
DRAWING: 39 OF 511
PROJECT: I-65-3(163)109
BRIDGE CONTRACT NO. B-8877
BRIDGE FILE: I-65-110-5694



5-1-72 BKL/WFG/AM
1-30-73 JWW/WFG/BAW
8-3-73 JWW/SDM/VPL

DESIGNED: JGB CKD: DRW
DRAWN: WDM CKD: ECF
TRACED: CKD

Rev. 5-1-72 Steel pipe Conduit 2", Reint.

Rev. 1-30-73 Details "A" & "B"

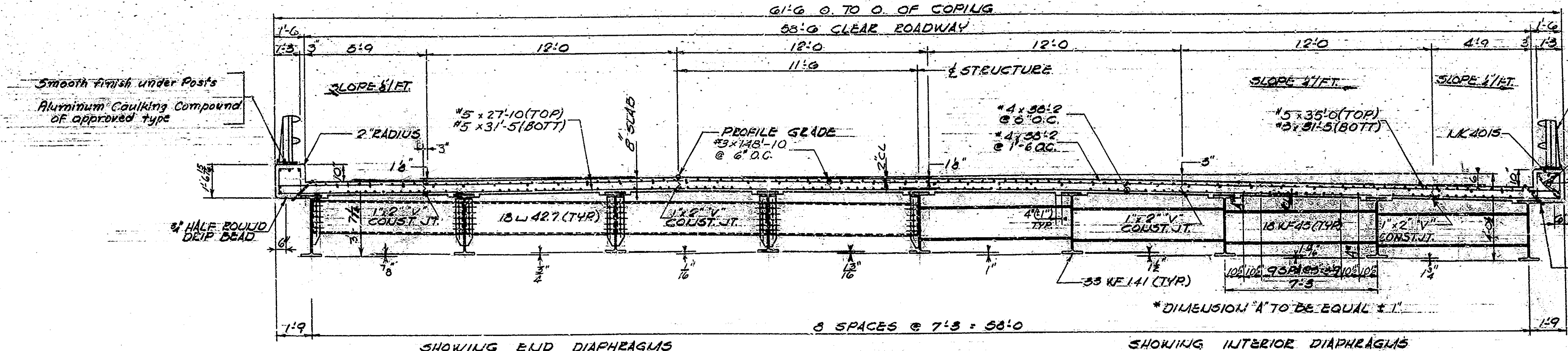
November 6, 1961

REV 8-3-73 Corner Details: B58 Exp. Joint, Note

Rev. 3-3-73 Project Designation changed from I-65-3(163) 109 to I-65-3(163) 109.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
I-65-3(163)109	I-65	11	23	I-65-110-5694

BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	165-5	1970	12	23



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

POUR NO.	THICKNESS	LENGTH	WEIGHT
#5	354	41'-10"	35'-0"
#5	1	33'-0"	
#5	716	31'-5"	
#5	2	29'-5"	
#5	354	27'-10"	
#5	1	25'-10"	
#5	4	24'-7"	
#5	4	7'-4"	
TOTAL # 5 4700'			
#3	366	3'-5"	
#3	584	38'-2"	
TOTAL # 3 640'			
TOTAL REINFORCING 63300'			
CONCRETE CLASS 'C' 158'-0"			
POUR NO. 1 23'-30"			
POUR NO. 1A 16'-0"			
POUR NO. 1B 9'-6"			
POUR NO. 1C 12'-6"			
POUR NO. 1D 8'-7"			
POUR NO. 2 65'-9"			
POUR NO. 2A 33'-0"			
POUR NO. 2B 24'-8"			
POUR NO. 2C 31'-5"			
POUR NO. 2D 21'-8"			
TOTAL CLASS 'C' 248'-7"			
CAST IRON			
Cast Iron Drain Pipe 6" 100'			
Cast Iron Grates 300'			
Fittings - 2 Type S0A Drains 374'			
MISCELLANEOUS			
RAILING TYPE 5 OR TYPE 6 248'-0"			
Steel Pipe Conduit 2" 143'-2 1/2"			

BILL OF MATERIAL
ONE STRUCTURE ONLY

SIZE OF ROADWAY, E.C.S., LENGTH, WEIGHT

ALUMINUM RAILING TYPE B OR STEEL RAILING TYPE C

Steel Pipe Conduit 2"

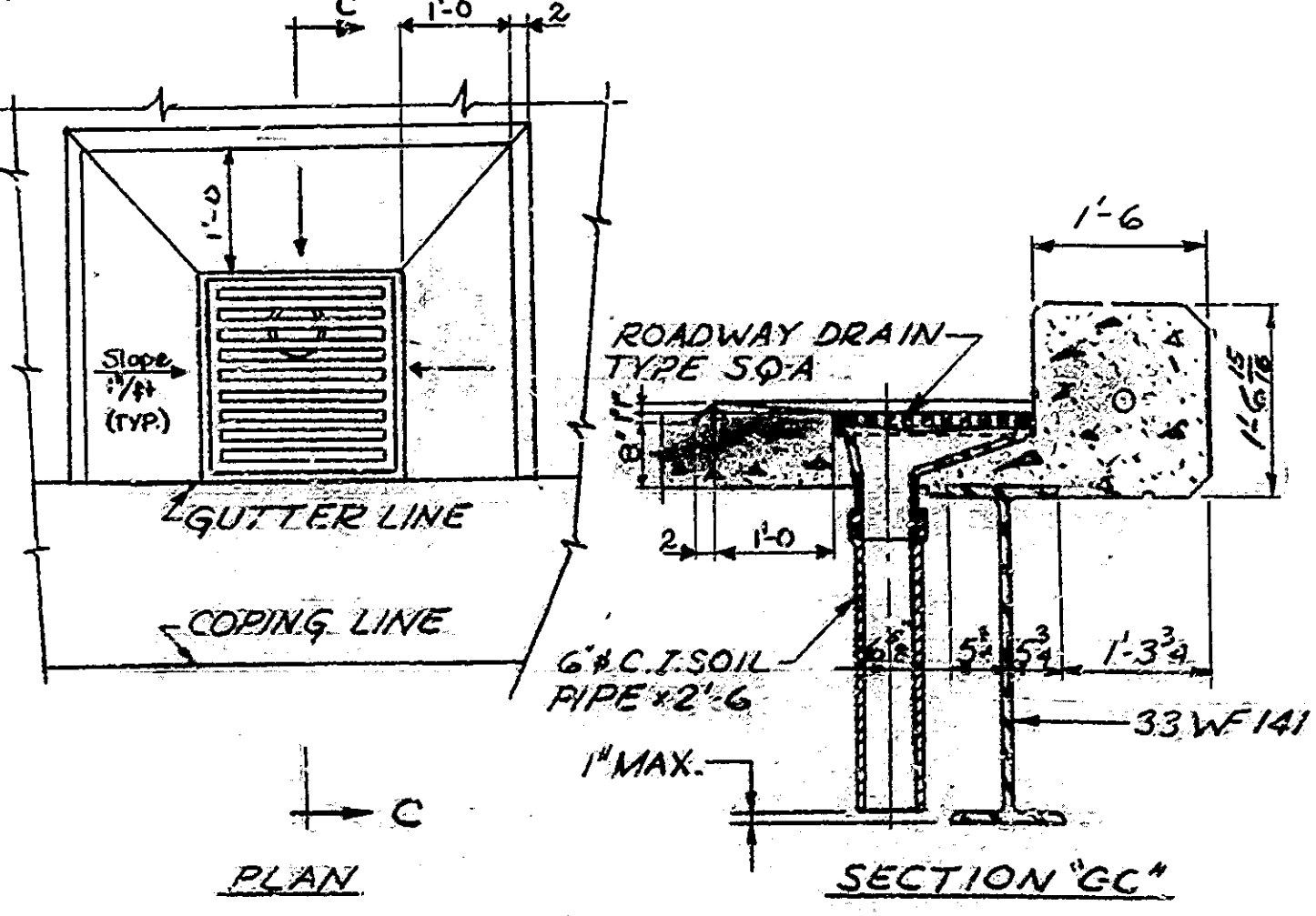
Deck Drain (Typ.) See Drwg. S10A

Anchor Bolts MK RR 2 1/2" Dia @ Extra Heavy

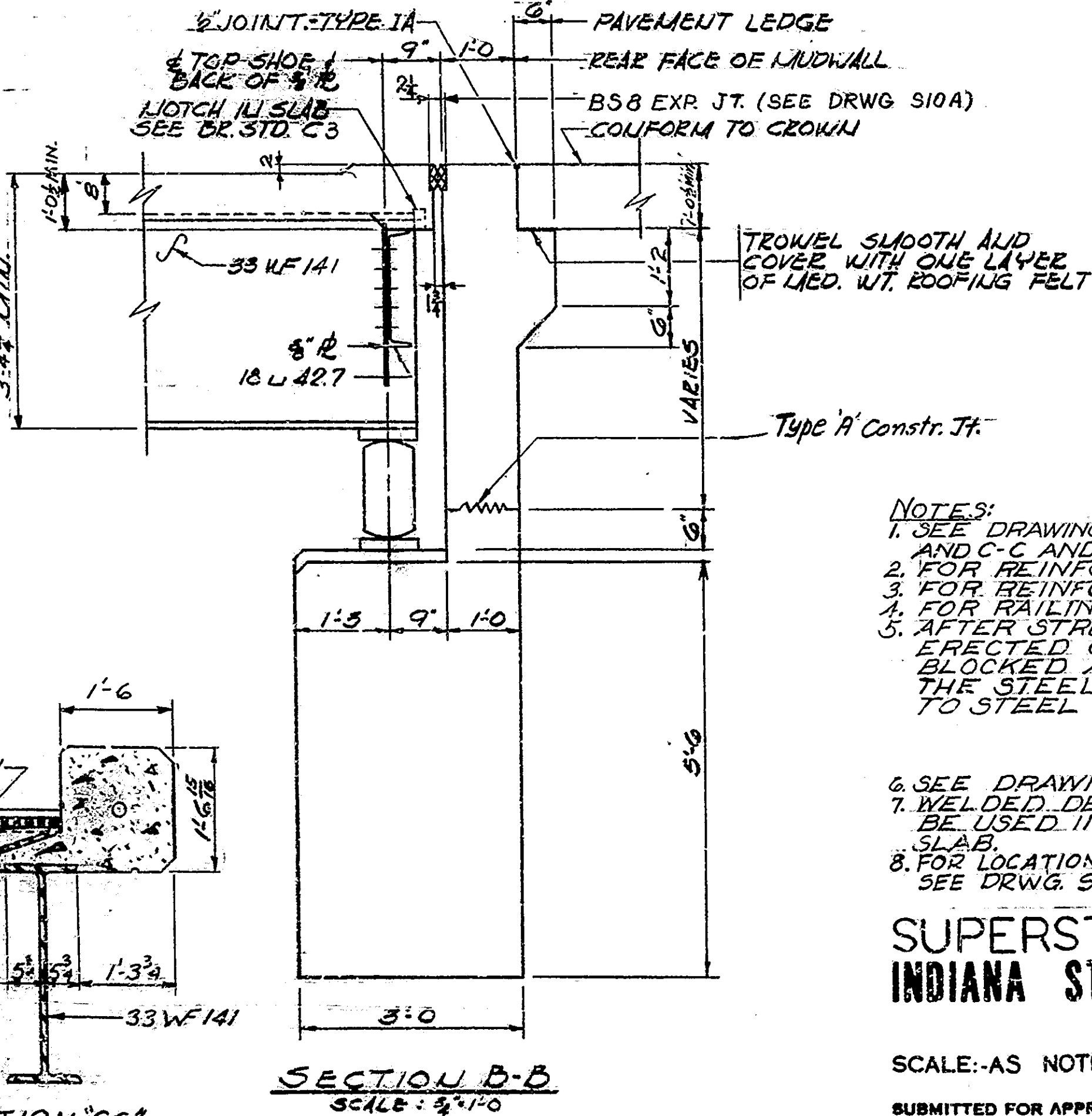
PAVEMENT OFFSET

Offset	Width
1"	24'-0"
2"	22'-0"
3"	20'-0"
4"	18'-0"
5"	16'-0"
6"	14'-0"
7"	12'-0"
8"	10'-0"
9"	8'-0"
10"	6'-0"
11"	4'-0"
12"	2'-0"
13"	0'-0"
14"	0'-0"
15"	0'-0"
16"	0'-0"
17"	0'-0"
18"	0'-0"
19"	0'-0"
20"	0'-0"
21"	0'-0"
22"	0'-0"
23"	0'-0"
24"	0'-0"

See Drwg. S10A for Overlay & Exp. Joint Type B58 Details



ROADWAY DRAIN DETAIL
SCALE: 3/4" = 1'-0"



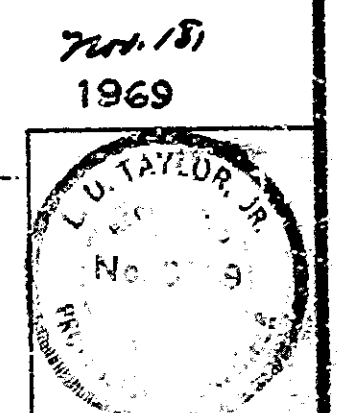
SECTION B-B
SCALE: 3/4" = 1'-0"

- NOTES:
- SEE DRAWING S 9 FOR LOCATION OF SECTION A-A, B-B, AND C-C AND FOR NOTES ON CONCRETE POURS.
 - FOR REINFORCING BAR NOTES, SEE BR. STD. C. 1.
 - FOR REINFORCING BAR DETAILS, SEE DRAWINGS S 9.
 - FOR RAILING DETAILS, SEE BRIDGE STD. BR. 12, 3, & 4.
 - AFTER STRUCTURAL STEEL HAS BEEN ERECTED CONCRETE FORMS SHALL NOT BE BLOCKED AGAINST THE EXPANSION END OF THE STEEL IN MAKING ANY POURS ADJACENT TO STEEL SPANS.
 - SEE DRAWING S 1 FOR GENERAL NOTES.
 - WELDED, DEFORMED STEEL WIRE FABRIC MAY BE USED IN PLACE OF #3 BARS IN TOP OF THE SLAB.
 - FOR LOCATION OF FUTURE "B" DIAM. LIGHT STANDARDS, SEE DRWG. S2.

SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *J.D. Taylor*

DRAWING: S10 OF S11
PROJECT: I65-3165109
BRIDGE CONTRACT NO. B-8877
BRIDGE FILE: I65-110-5694



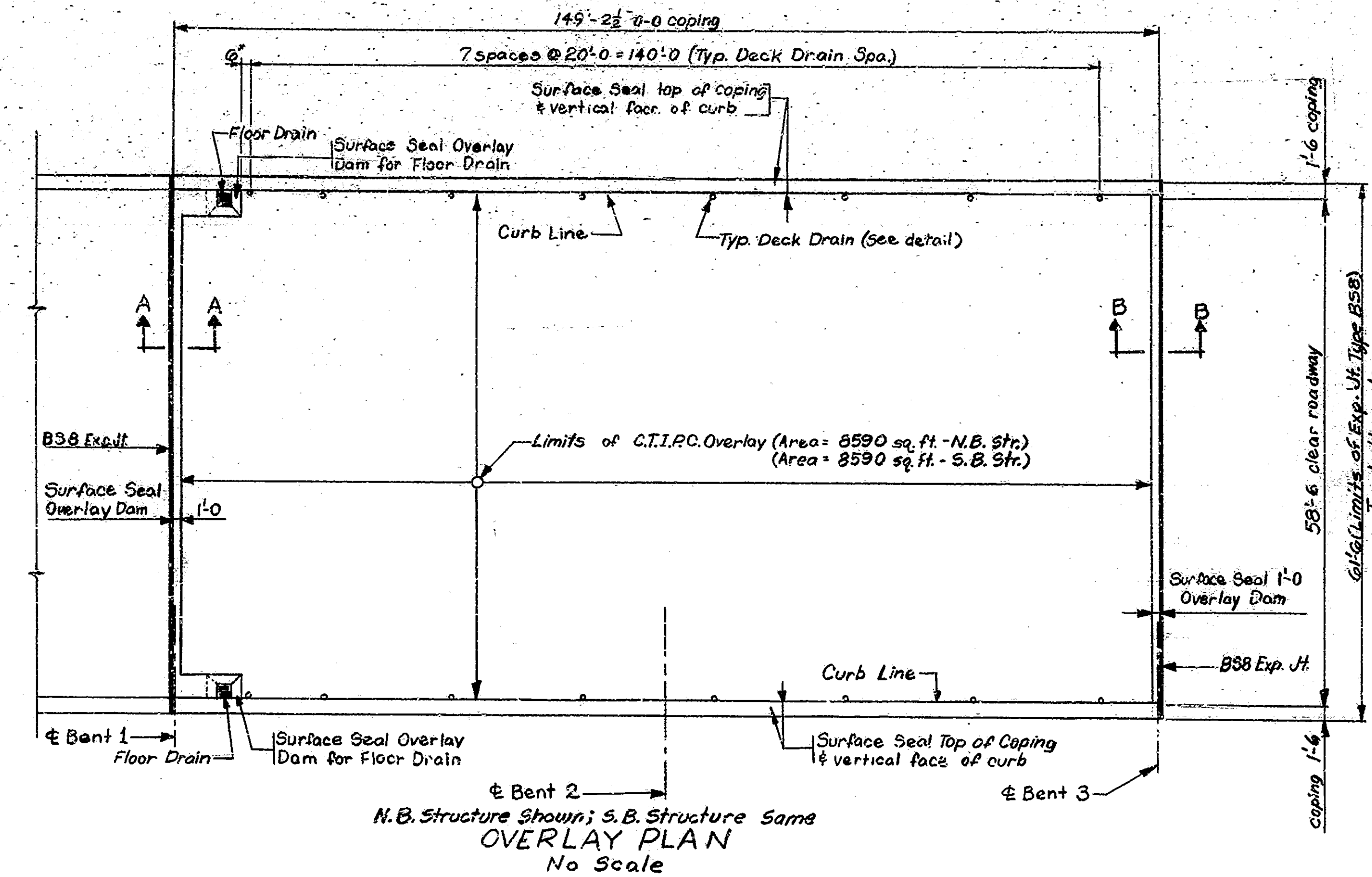
DESIGNED: JCB CRD DRW
DRAWN: W.O.M. CRD ECF
TRACED: CRD

REV 8-3-73. Conc. details, B58 Exp. Jt., Deck drain, Note, Bill of Mat.
Rev. 5-1-72 Reinf., Slab, B. of M.H.s., Notes: Rev 1-30-73 Pav. Off.

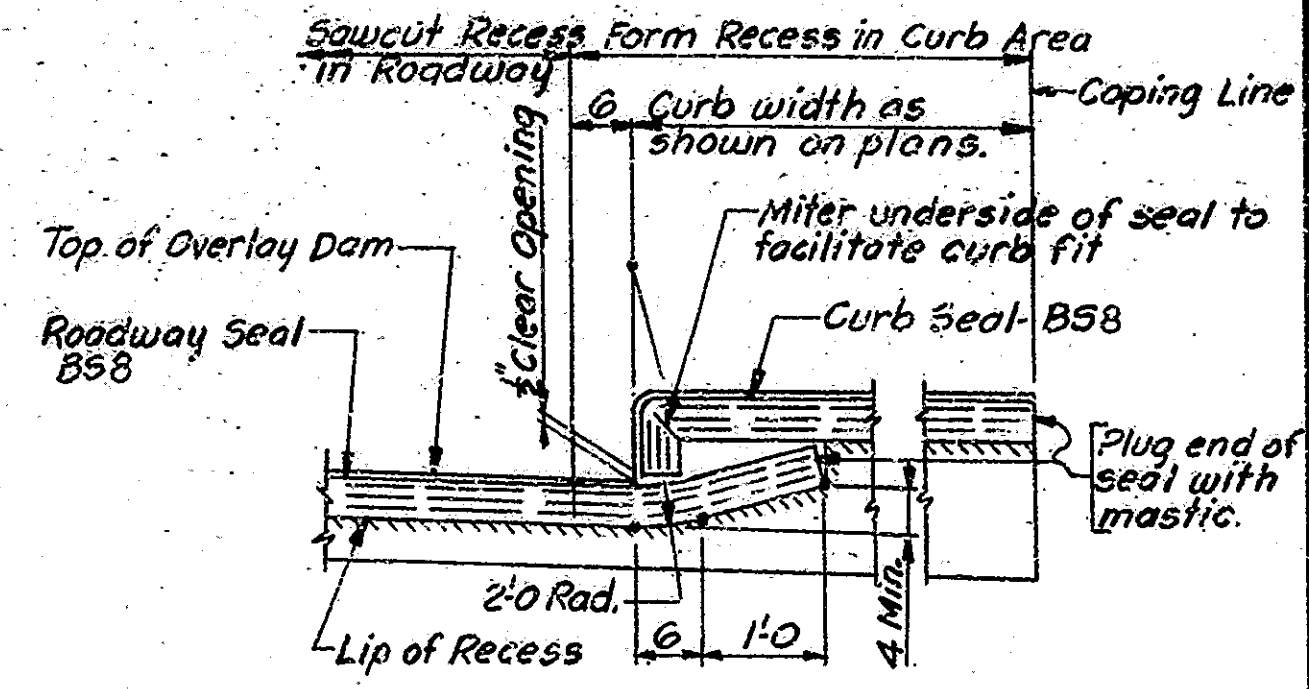
PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
I-65-3165109	I-65	12	23	I-65-110-5694

5-1-72 BKL/WFG/THW
1-30-73 JWW/WFG/RWH
8-3-73 JWW/SDM/PL

FEDERAL ROAD DIVISION NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	165-3(163)109	1974	12A	23



N.B. Structure Shown; S.B. Structure Same
OVERLAY PLAN
No Scale

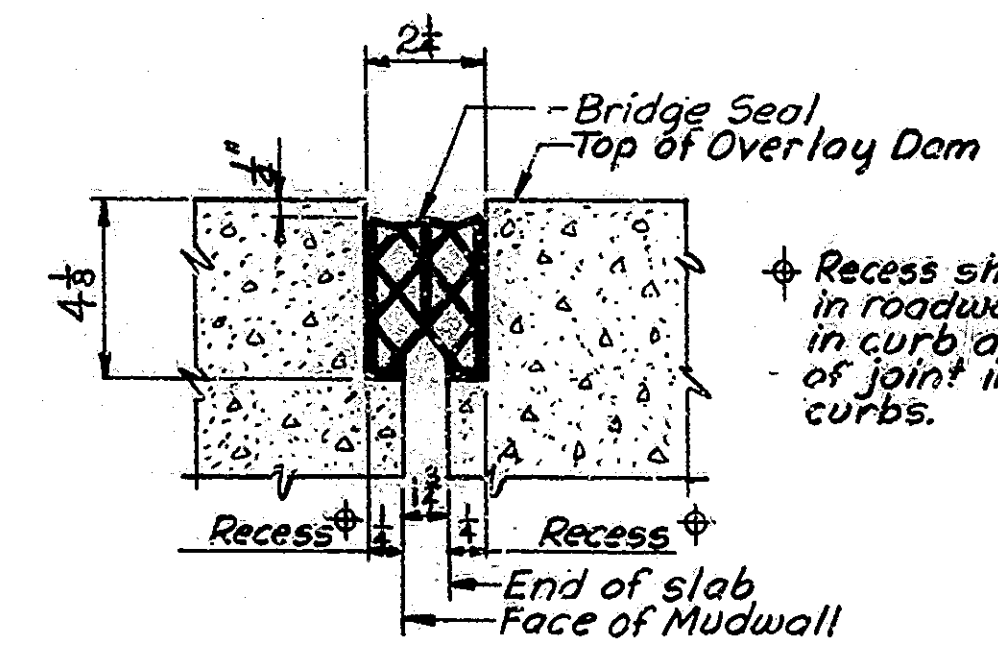


TYP. BS JOINT INSTALLATION AT 8" CURBS

At Overlay Dams, curb height will be 2 inches less than shown on floor details.

BILL OF MATERIALS FOR BOTH N.B. AND S.B. STRUCTURES

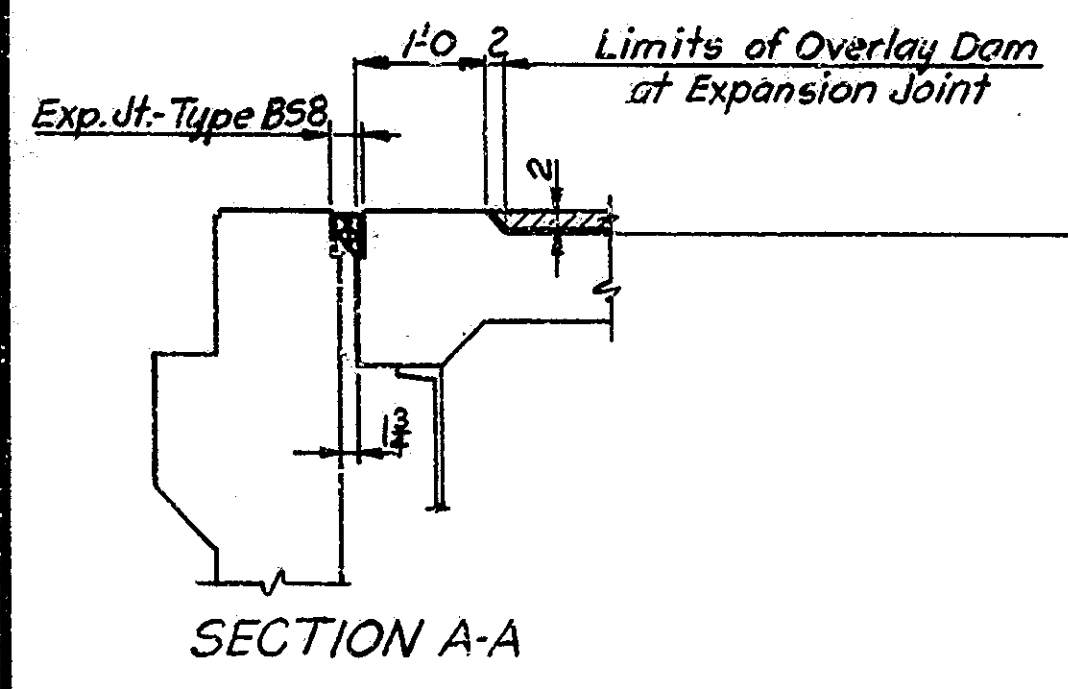
Item	Quantity
Coal Tar Interlayer Protective Coat	1 Lump Sum
Bituminous Mixture for Approaches	210 Tons
Deck Drains	32 Ea.
Surface Seal	1656 Sq. Ft.
Expansion Joint-Type B58	264 Lin. Ft.



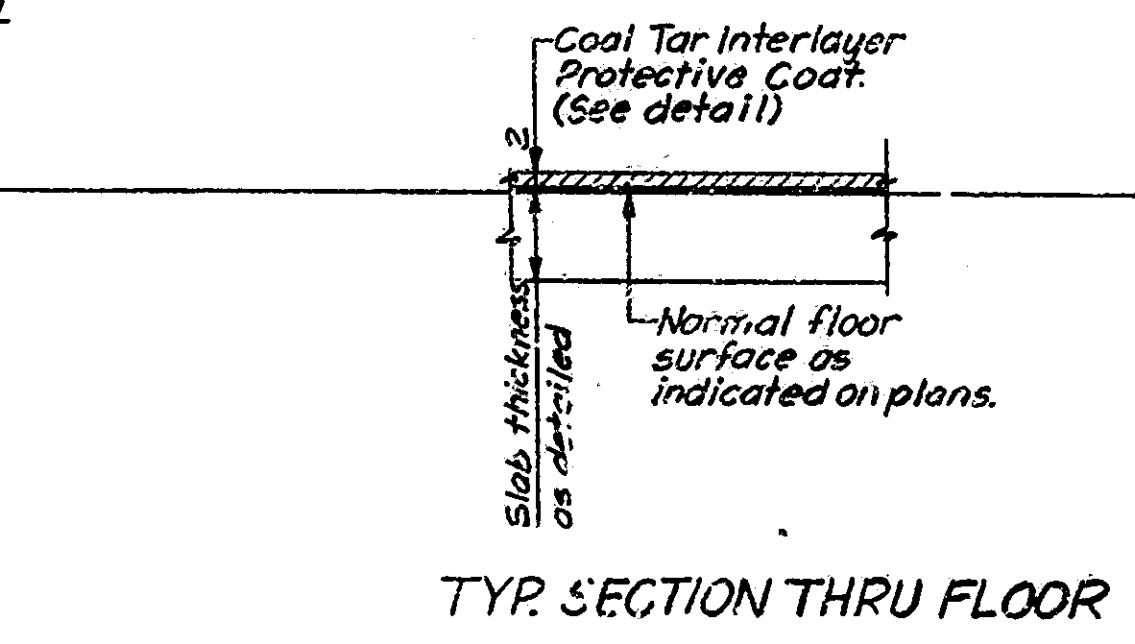
DETAIL - EXP. JOINT-TYPE B58

Size of Seal = 3x3
Minimum Joint Width = 1 1/2
Maximum Joint Width = 2 1/2
Minimum Joint Depth at Installation = 1 1/2
Minimum Joint Depth at Installation = 3/8

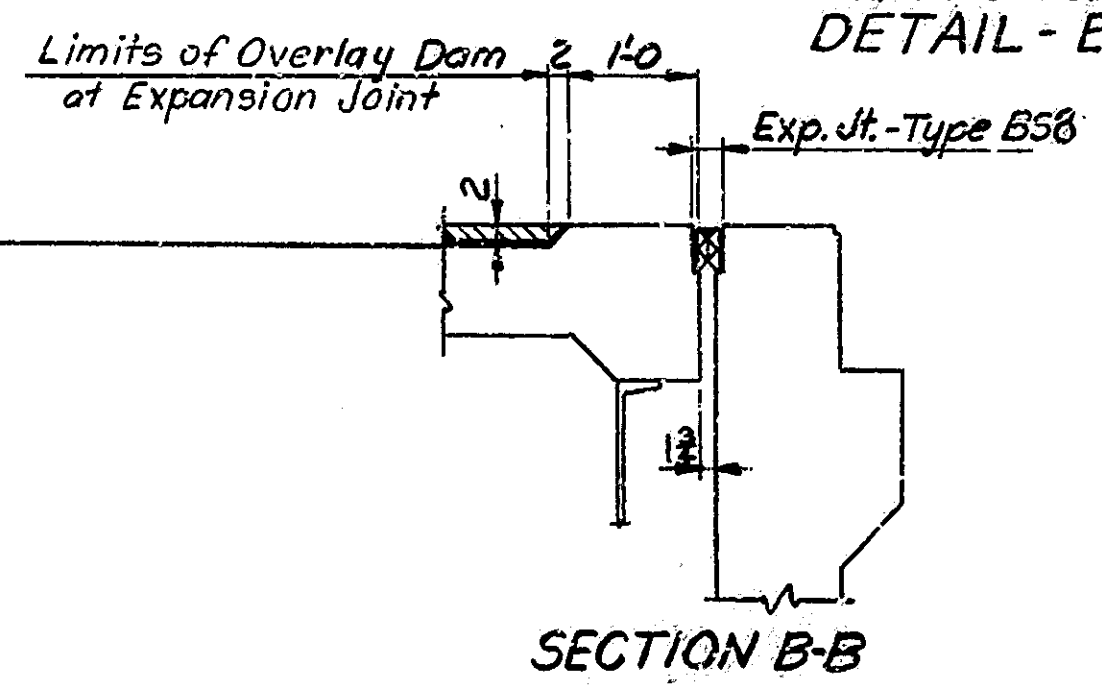
*Bit. Surface to be paid for as "Bituminous Mixture for Approaches" and shall consist of:
170#/Sq. Yd. Hot Asphaltic Concrete Surface Type B
OVER 50#/Sq. Yd. Hot Asphaltic Conc. Surface Type D
or
170#/Sq. Yd. Hot Asphaltic Emulsion Surface Type III
OVER 50#/Sq. Yd. Hot Asphaltic Emulsion Surface Type IV



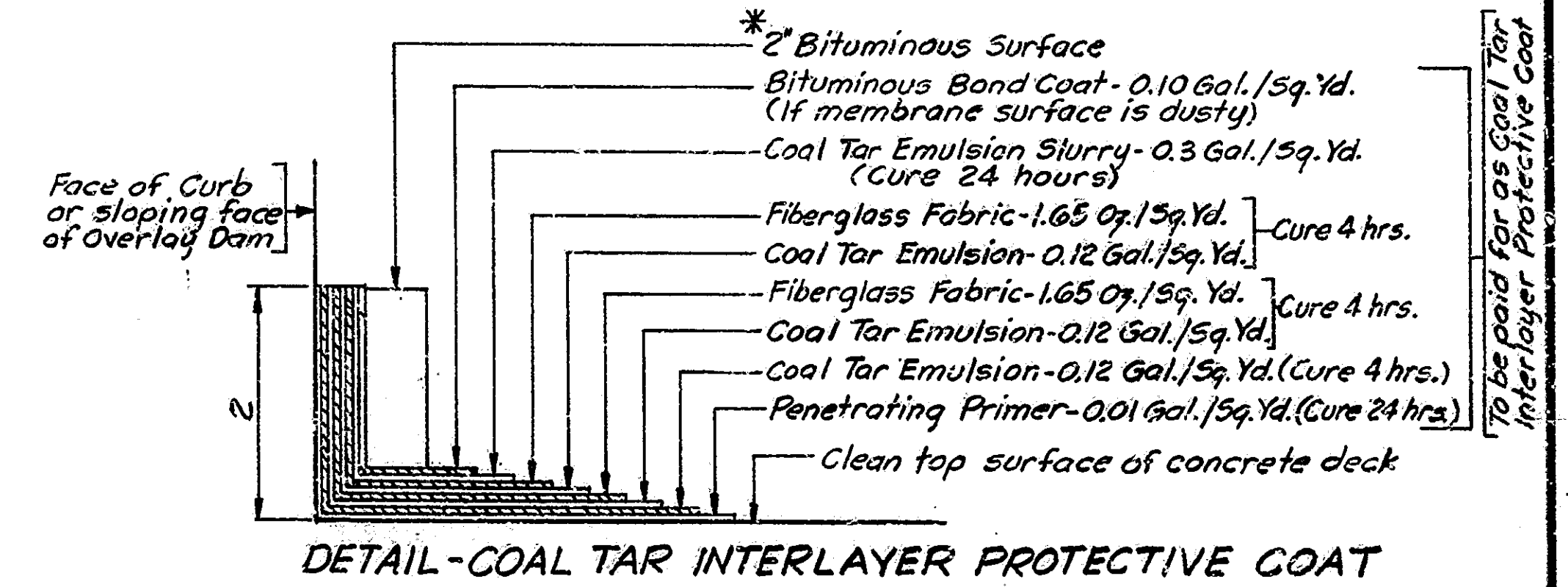
SECTION A-A



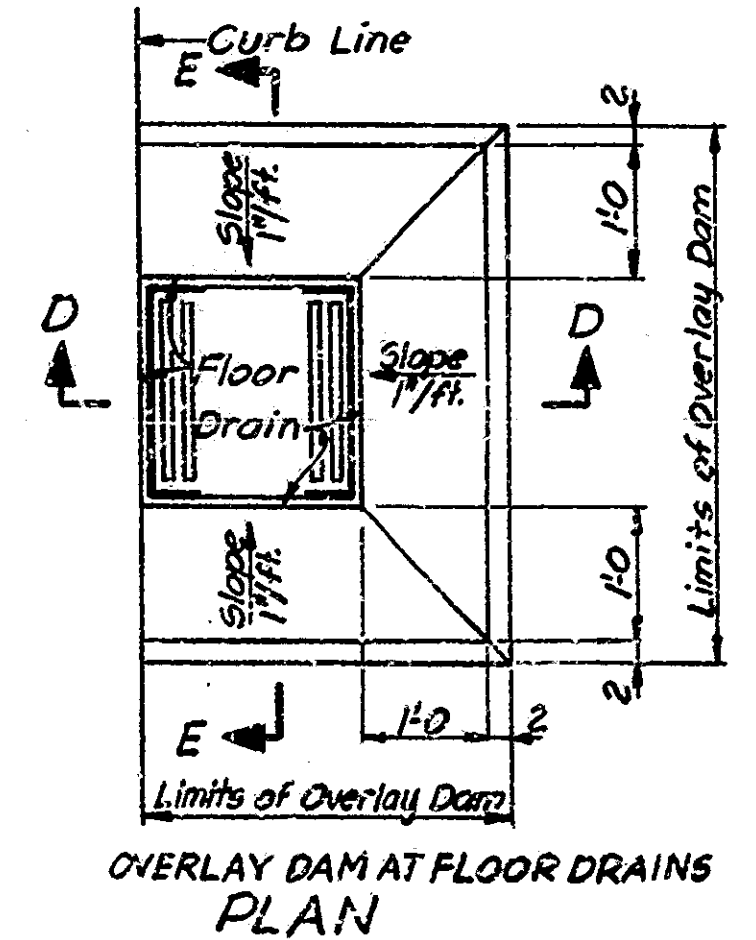
TYP. SECTION THRU FLOOR



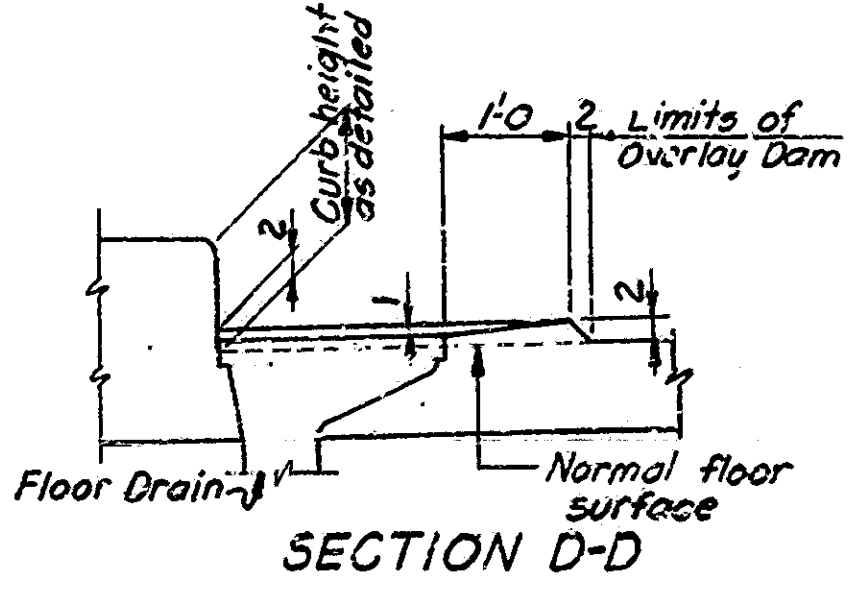
SECTION B-B



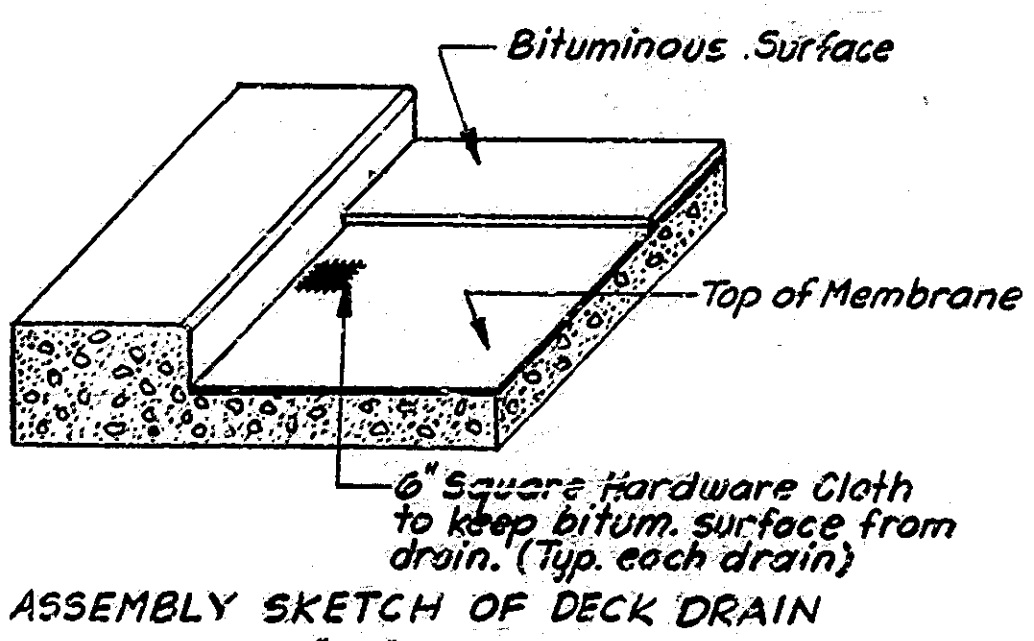
DETAIL-COAL TAR INTERLAYER PROTECTIVE COAT



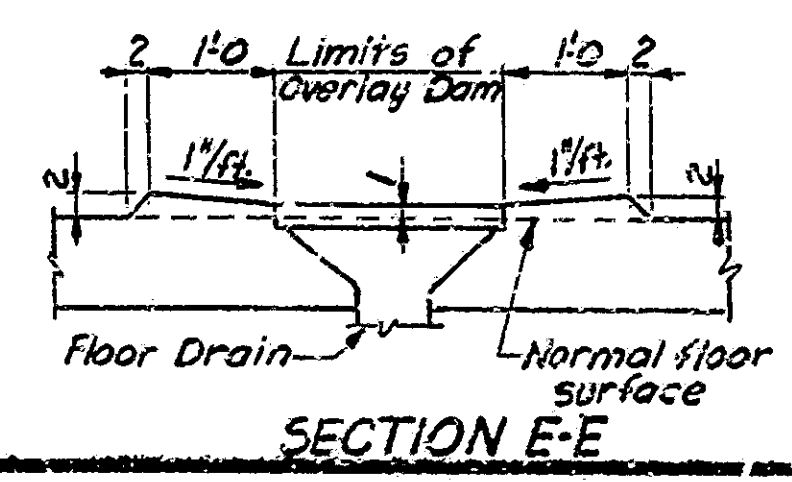
OVERLAY DAM AT FLOOR DRAINS PLAN



SECTION D-D

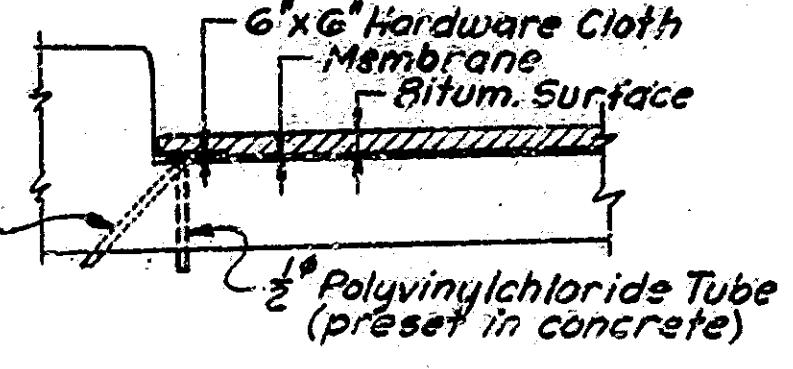


ASSEMBLY SKETCH OF DECK DRAIN



SECTION E-E

Alternate location of deck drain (if required to clear beam flange - see Floor details.)



DECK DRAIN DETAIL

NOTES:
Work this drawing with floor details.
Overlay Dams at ends of floor slab and adjacent to floor drains shall be poured monolithic with the slab.
Surface seal the top surface of all overlay dams, the exposed vertical face of all curbs and the top surface of curbs, walks and medians, where applicable. See Overlay Plan.

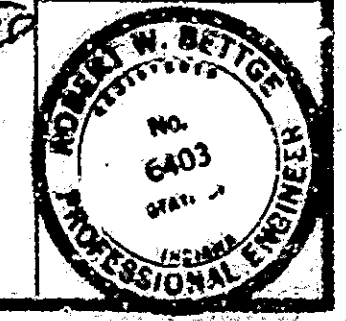
DETAILS-C.T.I.P.C. OVERLAY AND EXP. JOINT-TYPE B58
INDIANA STATE HIGHWAY COMMISSION

SCALE: No Scale

DATE: AUGUST 3, 1973

Robert W. Bell
Professional Engineer

DRAWING: S10A OF S11 SHEET: 12A OF 23
PROJECT: 165-3(163)109
CONTRACT NO. B-8877
BRIDGE FILE: 165-110-5694



DESIGNED BY	W. J. Z...
DRAWN BY	S. D. M.
CHECKED BY	
TRACED BY	

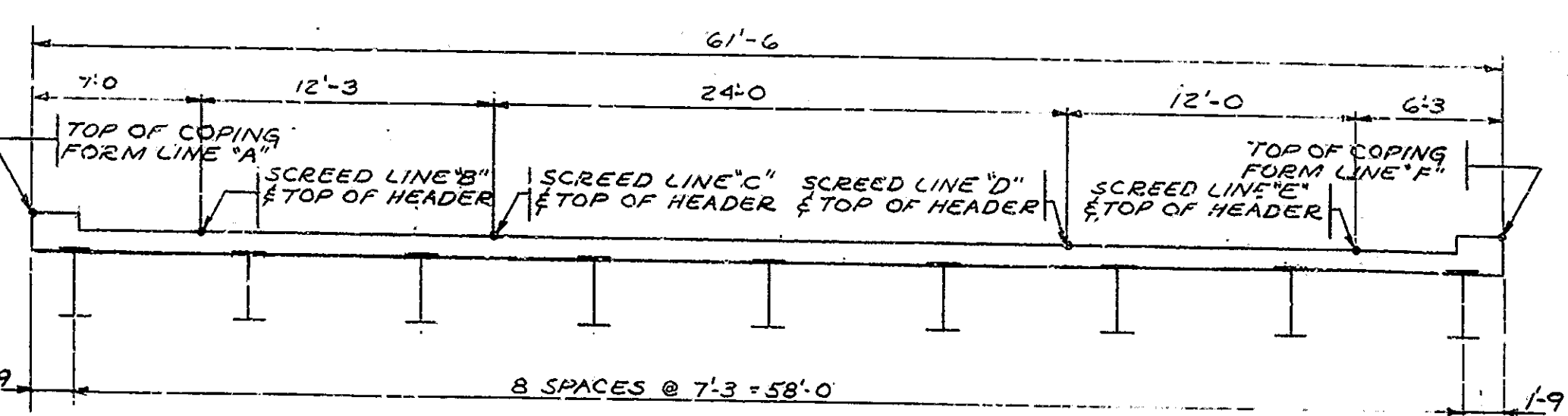
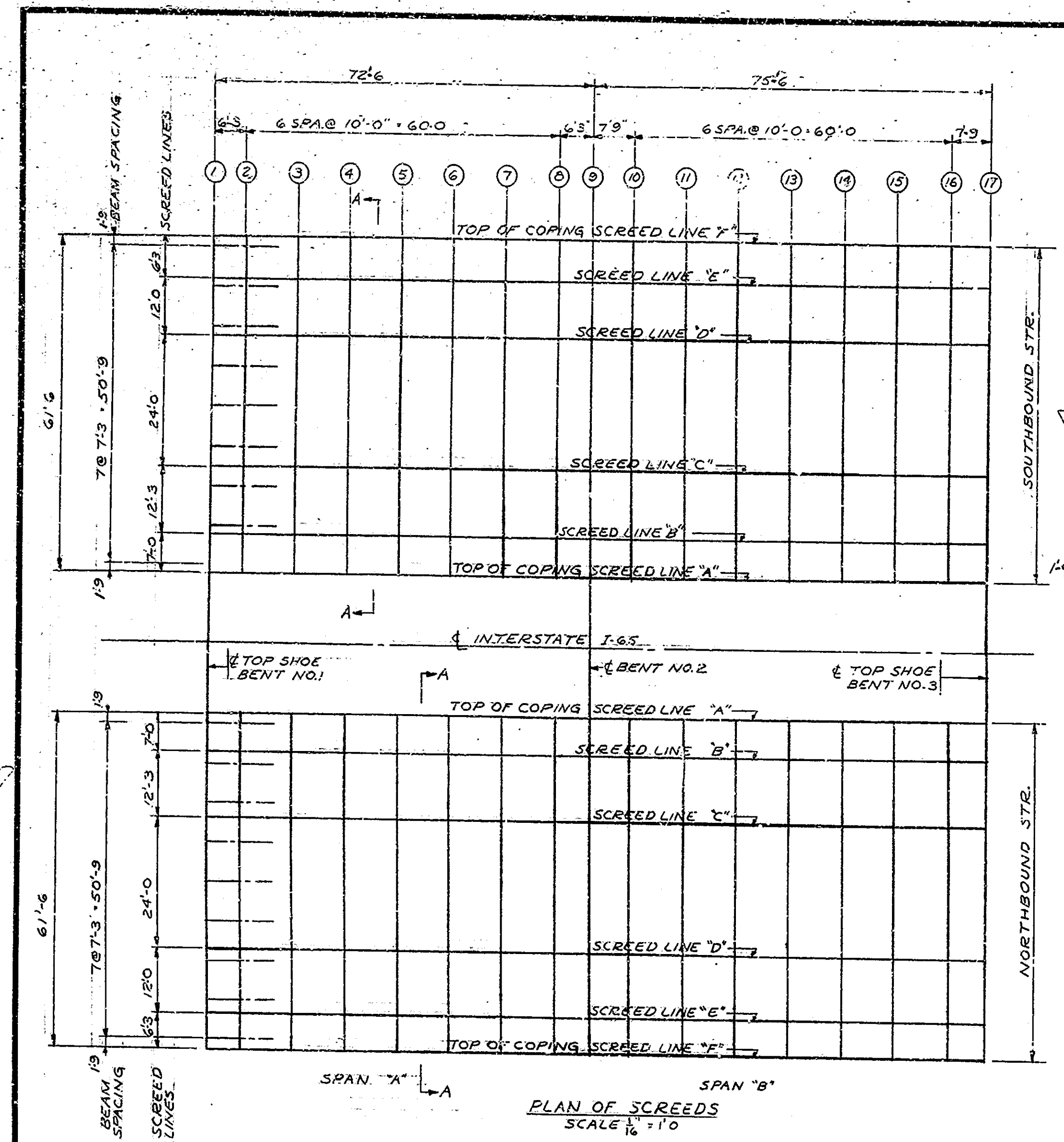
BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3(109)	1970	13	23

GENERAL PROCEDURE

- AFTER ALL STEEL HAS BEEN ERECTED AND WELDING COMPLETED, ADJUST SUPERSTRUCTURE LONGITUDINALLY SO THAT DIMENSION "C" FROM THE $\frac{1}{2}$ OF TOP SHOE TO THE FACE OF MUDWALL AT BENT NO. 1 IS EQUAL TO THE DIMENSION "C" FROM THE $\frac{1}{2}$ OF TOP SHOE TO THE FACE OF MUDWALL AT BENT NO. 3. WELD THE FIXED SHOES AT BENT NO. 2 TO THE ANCHOR PLATES.
- WITH THE SUPERSTRUCTURE IN ADJUSTED POSITION CALLED FOR IN NOTE 1, ADJUST THE EXPANSION PLATE UNDER EACH EXPANSION SHOE AT BENTS NO. 1 & NO. 3 IN ACCORDANCE WITH DIMENSION "A" IN TABLE 1 FOR THE PREVAILING TEMPERATURE. NOTE THAT DIMENSION "A" IS ALWAYS THE DISTANCE FROM A VERTICAL LINE THROUGH THE $\frac{1}{2}$ OF TOP SHOE IN A DIRECTION AWAY FROM THE FIXED SHOE.
- WELD THE EXPANSION PLATES TO ANCHOR PLATES ON BENT NO. 1 & BENT NO. 3.
- AFTER THE SHOES ARE SET, TAKE ELEVATIONS AT ALL SCREED POINTS TOP OF THE ADJACENT BEAM ENTER THESE ELEVATIONS IN THE TABLE OF ELEVATIONS, SUBTRACT THESE ELEVATIONS FROM THE TABULATED ELEVATIONS AND USE THE RESULTING DIMENSION AS THE HEIGHT FOR SETTING THE SCREED OR COPING FORM ABOVE THAT POINT ON THE BEAMS. THIS DIMENSION REMAINS CONSTANT REGARDLESS OF HOW MUCH OR IN WHAT ORDER THE CONCRETE IS POURED. DO NOT SET SCREDS OR COPING FORMS BY LEVELING.
- NO CONCRETE IN THE FLOOR IS TO BE POURED UNTIL THE ABOVE OPERATIONS ARE COMPLETE.

NOTES

- PLAN OF SCREDS SHOWS LOCATION OF SCREDS.
- TABLE OF ELEVATIONS SHOWS DATA FOR SETTING SCREDS & COPING FORMS SO THAT THE SLAB AND COPING WILL BE AT THE FINAL GRADE ELEVATIONS AFTER ALL CONCRETE HAS BEEN PLACED AND FORMS HAVE BEEN REMOVED.
- SEE DRAWINGS 5-6 FOR GENERAL NOTES.



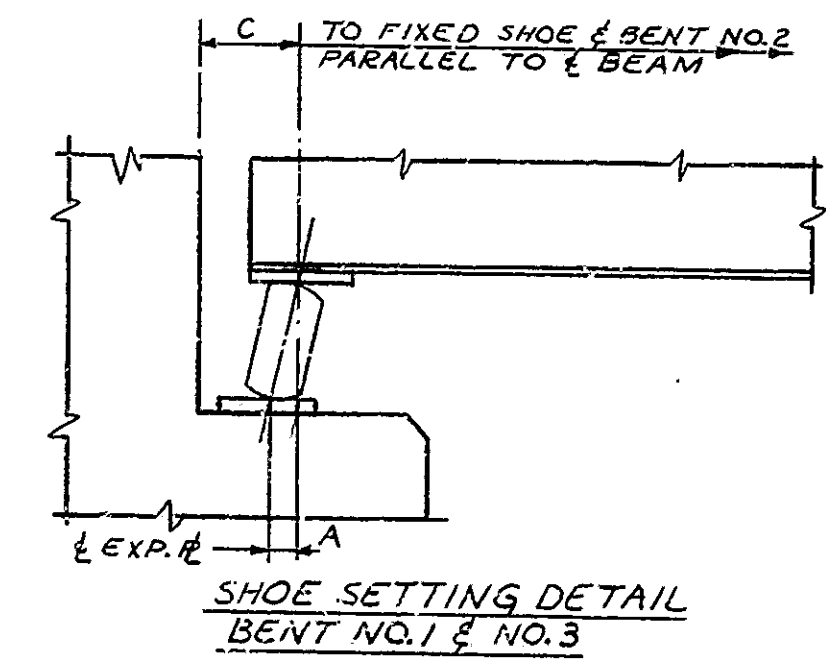
SECTION "A-A"
SCALE 1/4" = 1'-0"

TABLE NO. 1
DIMENSION "A" (INCHES)

TEMPERATURE	0°	20°	40°	60°	80°	100°	120°
BENT NO. 1	1 3/16	3/4	5/8	1/2	3/8	1/4	3/16
BENT NO. 3	7/8	3/4	5/8	1/2	3/8	1/4	1/8

PLAN OF SCREDS
SCALE 1/8" = 1'-0"

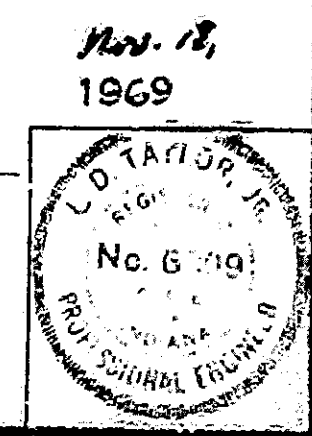
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A ELEVATION TOP OF COPING FORM	750.050	750.135	750.265	750.385	750.485	750.575	750.655	750.740	750.800	750.890	751.020	751.150	751.270	751.375	751.465	751.540	751.585
B ELEVATION TOP OF EXTERIOR BEAM																	
C ELEVATION TOP OF SCREED	749.275	749.360	749.490	749.610	749.710	749.800	749.880	749.965	750.025	750.115	750.245	750.375	750.495	750.600	750.690	750.765	750.815
D ELEVATION TOP OF BEAM																	
E ELEVATION TOP OF SCREED	749.375	749.460	749.590	749.710	749.810	749.900	749.980	750.065	750.125	750.215	750.345	750.475	750.595	750.700	750.790	750.865	750.915
F ELEVATION TOP OF BEAM																	
G ELEVATION TOP OF SCREED	749.130	749.215	749.350	749.465	749.565	749.655	749.735	749.820	749.885	749.970	750.100	750.230	750.350	750.455	750.545	750.620	750.670
H ELEVATION TOP OF BEAM																	
I ELEVATION TOP OF SCREED	748.980	749.070	749.200	749.320	749.420	749.510	749.590	749.675	749.735	749.820	749.950	750.080	750.200	750.305	750.395	750.470	750.520
J ELEVATION TOP OF BEAM																	
K ELEVATION TOP OF SCREED	749.620	749.705	749.840	749.965	750.065	750.145	750.225	750.310	750.375	750.460	750.590	750.720	750.840	750.945	751.035	751.110	751.160
L ELEVATION TOP OF BEAM																	
M ELEVATION TOP OF SCREED	750.040	750.130	750.260	750.380	750.480	750.570	750.655	750.740	750.800	750.890	751.020	751.150	751.270	751.375	751.465	751.540	751.585
N ELEVATION TOP OF EXTERIOR BEAM																	
O ELEVATION TOP OF SCREED	749.265	749.350	749.485	749.600	749.700	749.790	749.870	749.955	750.015	750.105	750.235	750.365	750.485	750.590	750.680	750.755	750.805
P ELEVATION TOP OF BEAM																	
Q ELEVATION TOP OF SCREED	749.355	749.445	749.575	749.695	749.795	749.880	749.960	750.050	750.110	750.200	750.330	750.460	750.580	750.685	750.775	750.850	750.895
R ELEVATION TOP OF BEAM																	
S ELEVATION TOP OF SCREED	749.120	749.210	749.320	749.435	749.535	749.625	749.705	749.790	749.855	749.945	750.070	750.200	750.320	750.425	750.510	750.580	750.630
T ELEVATION TOP OF BEAM																	
U ELEVATION TOP OF SCREED	748.850	748.935	749.065	749.185	749.285	749.375	749.455	749.540	749.600	749.690	749.820	749.950	750.070	750.175	750.265	750.340	750.390
V ELEVATION TOP OF BEAM																	
W ELEVATION TOP OF SCREED	749.590	749.670	749.810	749.935	750.030	750.115	750.195	750.275	750.335	750.425	750.550	750.680	750.800	750.905	751.000	751.070	751.120
X ELEVATION TOP OF BEAM																	
Y ELEVATION TOP OF SCREED	749.590	749.670	749.810	749.935	750.030	750.115	750.195	750.275	750.335	750.425	750.550	750.680	750.800	750.905	751.000	751.070	751.120



⊕ Elevations uncorrected for 2" concrete dams at ends of slab.

SCREED DATA
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *L.D. Taylor*
DRAWING: S11 of S11
PROJECT: J-65-3(109)
BRIDGE CONTRACT NO. B-8877
BRIDGE FILE: I-85-110-5694



DESIGNED: JGH CKD: DRW
DRAWN: SWE CKD: ECF
TRACED: CKD

REV 8-3-73 Screed Elevations

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
I-65-3(109)	I-65-3	13	23	I-65-3(109)

BRIDGES OVER 20' SPAN						
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL	
4	IND.	165-3063	1970	14	23	

ITEM	CONCRETE					REINFORCING STEEL (196 STD. WTS)								PILES	CAST IRON DRAIN PIPE OR C.	RAILING TYPE D	STRUCTURAL STEEL LBS.	BORROW CU. YDS.	ANCHOR PLATES MC-APP	ANCHOR BOLTS MK-AR22	STEEL PIPE CONDUIT	CAST IRON BASIN FITTINGS	ELECTRICAL	
	CLASS 1 CU. YDS.	CLASS 2 CU. YDS.	CLASS 3 CU. YDS.	CLASS 4 CU. YDS.	CLASS 5 CU. YDS.	#11	#10	#8	#7	#6	#4	#3	TOTALS											
SUBSTRUCTURE																								
BENT NO 1	68.4											6,177	15,485		33.0				69	9		18.9		
BENT NO 2	58.6			36.7								18,363							182	9				
BENT NO 3	68.4											6,177	15,485		33.0				69	9		18.9		
SUPERSTRUCTURE SPANS 'A' & 'B'		248.8										69,208	100	298.5	272,400							149.2	384	132
SUB TOTALS	175.4	248.8		36.7								100,025	200	264.6	272,400	320	27				186.2	384	132	

DESCRIPTION	UNIT	QUANTITIES		TOTALS
		BRIDGE	FILE	
1 Concrete Class C Superstructure	Cu. Yds.	497.5		
2 Concrete Class A Substructure	Cu. Yds.	350.8		
3 Concrete Class B above Footings	Cu. Yds.			
4 Concrete Class B in Footings	Cu. Yds.	73.4		
5 Concrete Railing				
6 Reinforcing Steel	Pounds	200,230		
7 Structural Steel	Lump Sum			
8 Concrete Structural Members	Lump Sum			
9 Anchor Plates (MC-APP)	Each	54		
10 Anchor Bolts (MK-AR22)	Each	8		
11 Cast Iron Drain Pipe 6"Ø	Pounds	200		
12 Cast Iron, Wrotes, Basins and Fittings	Pounds			
13 Railing (Type B & C)	Lin. Ft.	729.2		
14 Timber Piles (Furnished, Untreated)	Lin. Ft.			
15 Timber Piles (Driven, Untreated)	Lin. Ft.			
16 Timber Piles (Furnished, Treated)	Lin. Ft.			
17 Timber Piles (Driven, Treated)	Lin. Ft.			
18 Pile Shells (Furnished & Driven 12")	Lin. Ft.			
19 Steel Piles (Furnished & Driven 12"Ø)	Lin. Ft.	1820		
20 Finishing Equipment for Drilling Piles	Lump Sum			
21 Wet Excavation	Cu. Yds.			
22 Foundation Excavation (Unexcavated)	Cu. Yds.	433		
23 Waterway Excavation	Cu. Yds.			
24 Common Excavation	Cu. Yds.			
25 Borrow	Cu. Yds.			
26 B Borrow for Structure Backfill	Cu. Yds.			
27 B Borrow	Cu. Yds.			
28 Expansion Joint, Preformed ()	Lin. Ft.			
29 Concrete Pavement, Reinforced Cement ()	Sq. Yds.			
30 (Type) Compacted Aggregate for B-25				
31 Subbase	Cu. Yds.			
32 Removal of Present Structure	Each			
33 Temporary Bridge and Approaches	Lump Sum			
34 Construction Signs (Type A)	Each			
35 Construction Signs (Type B)	Each			
36 Standard Barricades (Type A)	Each			
37 Standard Barricades (Type B)	Each			
38 I/W Markers	Each			
39 Stopwall	Sq. Yds.	1024		
40 Riprap	Sq. Yds.			
41 Concrete Class A in Structures	Cu. Yds.			
42 Siding	Sq. Yds.			
43 Matched Siding	Sq. Yds.			
44 Anchor Rods (MK-AR)	Each			
45 Inlets Type P120	Each	1		
46 Inlets Type 120	Each	2		
47 F.B.C.C.S. PIPE 12" 16 Gage	Lin. Ft.	276		
48 Culvert End Sections 12"	Each	3		
49 Steel Pipe conduit 2"	Lin. Ft.	372.4		
50 Anchor Bolts MK-AR22	Each	8		
51 Cast Iron Basins, Grates & Fittings	LBS.	768		
52 Expansion Joint - Type BSB	Lin. Ft.	264		
53 Coal Tar Interlayer Protective Coat	Lump Sum	1		
54 Bituminous Mixture for Approaches	Tons	210		
55 Deck Drains	Each	32		
56 Surface Seal	Sq. Ft.	1856		

STRUCT. NO.	LOCATION	APPROACH		STRUCTURES				REMARKS
		SIZE	KIND	LENGTH LIN. FT.	CONCR. CL. IN STRS. CU. YDS.	REIN. STEEL LBS.	B. BORROW CU. YDS.	
115	261+91 RT. LINE I-65	12"	INLET TYPE D6 & F.B.C.C.S. PIPE	56				I-CULVERT END SECTION REQ'D
118	261+95 LT. LINE I-65	12"	INLET TYPE D6 & F.B.C.C.S. PIPE	72				I-CULVERT END SECTION REQ'D
21A	281+60 & I-65	12"	INLET TYPE D6 & F.B.C.C.S. PIPE	148				I-CULVERT END SECTION & 2-4"Ø BEND REQ'D
TOTALS								Total of Reinforcing Steel Carried to Structure Quantities

ITEM	UNIT	QUANTITY	BARRICADES, BARRIERS, TRAFFIC SIGNS AND LIGHTS		TOTALS
			ASSEMBLY	BRIDGE FILE	
CONSTRUCTION SIGNS TYPE A	EACH		Signs XW-1		
			Signs XW-2		
			Signs XW-3		
			Signs XM-2		
STANDARD BARRICADES TYPE A	EACH		Signs W-4B, W-35A (20 M.P.H.)		
			Torches		
			Barricades (Type A)		
STANDARD BARRICADES TYPE B	EACH		Signs XR-1		
			Signs M-20A		
CONSTRUCTION SIGNS TYPE B	EACH		Signs XR-1		
			Signs W-11		
			Signs W-35A		
SUITABLE BARRIERS	EACH	*	Suitable Barriers		
			Lanterns or Torches		
CONSTRUCTION IDENTIFICATION SIGNS	EACH	*	Signs XM-6		
			Signs XM-7		
			Signs XM-8		

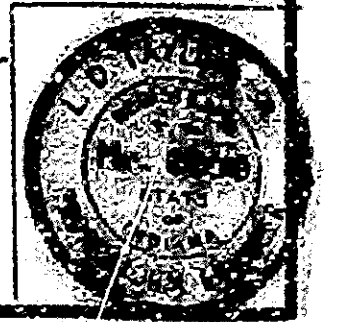
Ø Extra Heavy

SUMMARY INDIANA STATE HIGHWAY COMMISSION

MAY 18, 1969

SUBMITTED FOR APPROVAL *[Signature]*

PROJECT: 165-3063/109
CONTRACT NO: 16-8877
BRIDGE FILE: 165-110-5694



JUNE 1, 1969

NOTES:
For Test Bar Samples See Bridge Standard C1.
* Not a Pay Item. Place as directed by the Engineer.
* W-35A safe speed to be determined by the Engineer.
Directional, Advisory or Warning Signs shall be right hand or left hand as the location of the sign requires.

NOTES:
** Weight of Spirals includes weight of 1 1/2 extra turns top and bottom.
Spacers and 1 1/2 turns of tape included in cost of Spiral.
*** The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
Ø Ø Borrow included in Road Quantities

SUMMARIZED GIVE CRD.L.C.F. REV. 8-3-73 Item 1,2 Added Items 53 thru 57
TRACED GIVE CRD.L.C.F. Rev. 5-1-72 Items 1,2,46,11,46,12,48,49 Deleted 20

Added 12,50,51,52 Rev. 1-30-73 Item #6, #51

Rev. 3-5-73 Project Description changed from 165-3063 to 165-3063/109

5-1-72 TAM/RDS/WEG
1-30-73 JJW/RW/JL/SES
8-8-73 JWW/SBM/DC

IND STR

T-65-110-5694