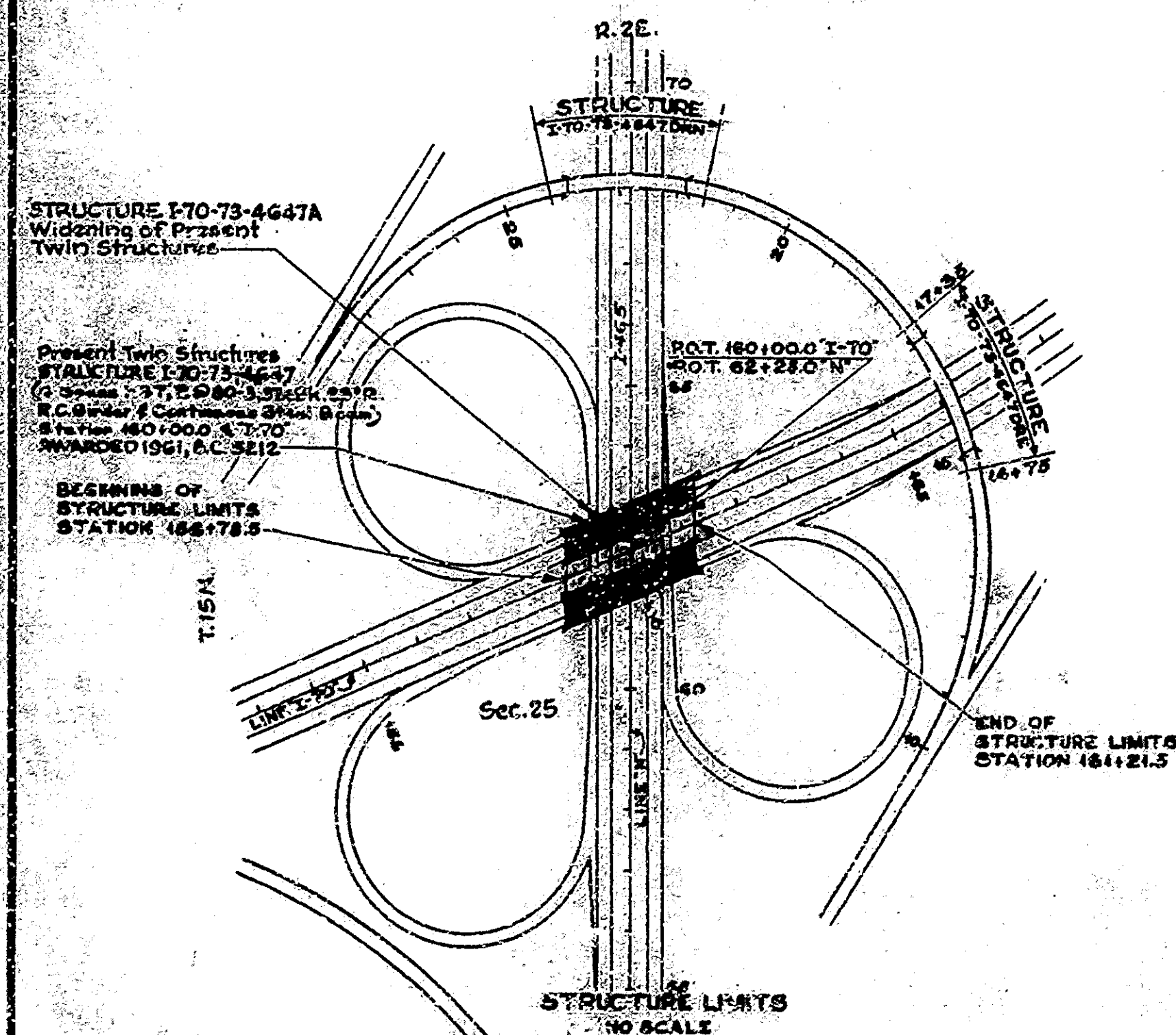


INDEX						
PROJECT :	STRUCTURE	TYPE	SPAN	OVER	STATION	CONTRACT NO.
I-465-4(79)155	S-70-73-464TA	WIDENING OF PRESENT TWIN STRUCTURES	37.10 @ 3.31' (8.23'R)	INTERSTATE 435	160 + 00	6-6922

SHEET NO.	SHEET DESIGNATION	SUBJECT	R.P.R. APPROVAL
1		INDEX & TITLE SHEET	
2	ROAD PLAN SHEET NO. 4A	TYPICAL CROSS SECTIONS-ROAD PROJ. NO. I-70-5(4)72	
3	ROAD PLAN SHEET NO. 6	ROAD PLAN & PROFILE-ROAD PROJ. NO. I-70-5(4)72	
4	ROAD SHEET 18	R.C. BRIDGE APPROACH DETAILS PROJ. NO. I-70-5(4)72	
5	BRIDGE SHEET 12	SOIL BORING LOG BRIDGE FILE NO. I-70-73-464T, LGTR. 5312	
6	S. (CTR. I-70-73-464TA)	LAYOUT	
7	8.1	GENERAL PLAN	
8	8.3	BENT NO. 1 (W.B.) & BENT NO. 5 (E.B.)	
9	8.4	BENT NO. 7 (E.B.) & BENT NO. 6 (W.B.)	
10	8.6	BENT NO. 2 (E.B.) & BENT NO. 4 (W.B.) DETAILS	
11	8.6	BENT NO. 4 (E.B.) & BENT NO. 2 (W.B.) DETAILS	
12	8.7	BENT NO. 2 & BENT NO. 4 DETAILS AND BILL OF MATERIAL	
13	8.8	BENT NO. 3 DETAILS (E.B.)	
14	8.9	BENT NO. 3 DETAILS (W.B.)	
15	9.10	SPAN "A" (E.B.) & SPAN "D" (W.B.) DETAILS	
16	9.11	SPAN "A" (W.B.) & SPAN "D" (E.B.) DETAILS	
17	9.12	SPAN "A" & SPAN "D" DETAILS	
18	9.13	FRAMING PLAN-SPANS "B" & "C"	
19	9.14	STEEL NOTES & DATA	
20	9.15	STEEL DETAILS	
21	9.16	STEEL DETAILS	
22	9.17	BILL OF MATERIAL-SPANS "B" & "C"	
23	9.18	SUPERSTRUCTURE DETAILS-SPANS "B" & "C"	
24	9.19	SUPERSTRUCTURE DETAILS-SPANS "B" & "C"	
25	ONE SHEET	SUMMARY	



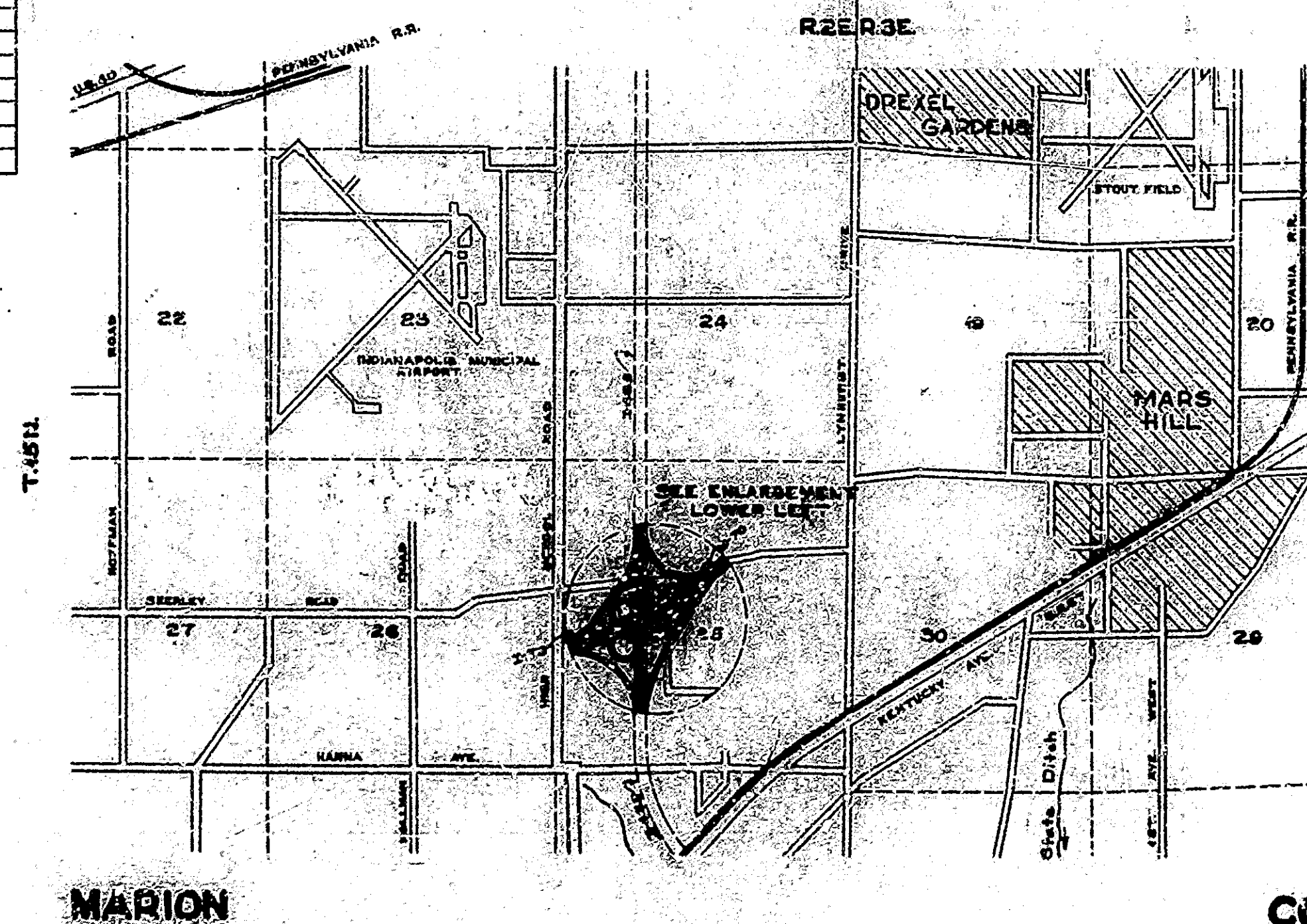
INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1963
TO BE USED WITH THESE PLANS.

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS
FOR SPANS OVER 20 FEET
ON
INTERSTATE ROUTE NO. 70 SECTION 3
F.A. PROJECT NO. I-465-4(78)155

WEST LED CIRCUMURBAN HIGHWAY
STRUCTURE LIMITS
BEGINNING AT A POINT ON I-70 (LINE "T-70") APPROX 12.4' SOUTHWEST OF THE E. OF I-465 (LINE "N") AND EXTENDING NORTHEAST A DISTANCE OF APPROX 243' TO A POINT ON I-70 (LINE "T-70") APPROX 121.5' NORTHEAST OF THE E. OF I-465 (LINE "N"), ALL IN SECTION 26-T.45 N.-R.2E., MARION COUNTY.

ROADWAY LENGTH = 0.000 MI. MAX. GRADE = 0.82%
BRIDGE LENGTH = 0.048 MI. - CONSIDERED 0.00 MI. ON I-465
TOTAL LENGTH = 0.048 MI.

[illegible]

TRAFFIC DATA	I-70	I-265
A.D.T. (1955)	23,434	3,723 V.P.D.
A.D.T. (1976) PROJECTED,	61,222	8,527 V.P.D.
A.D.T. (10) PROJECTED)		V.P.D.
TRUCKS	6	6
DESIGN SPEED	70	70 M.P.H.
ACCESS CONTROL	FULL	FULL

APPROVED 11-4-65

[Signature]
DEPUTY CHIEF HIGHWAY ENGINEER—INDIANA STATE HIGHWAY COMMISSION

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

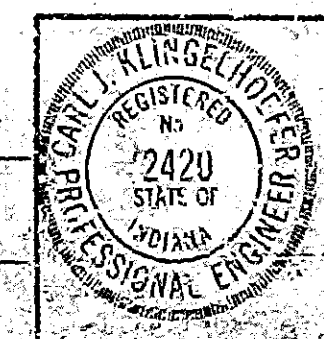
APPROVED:

DIVISION ENGINEER

BRIDGE FILE: I-70-73-4847A

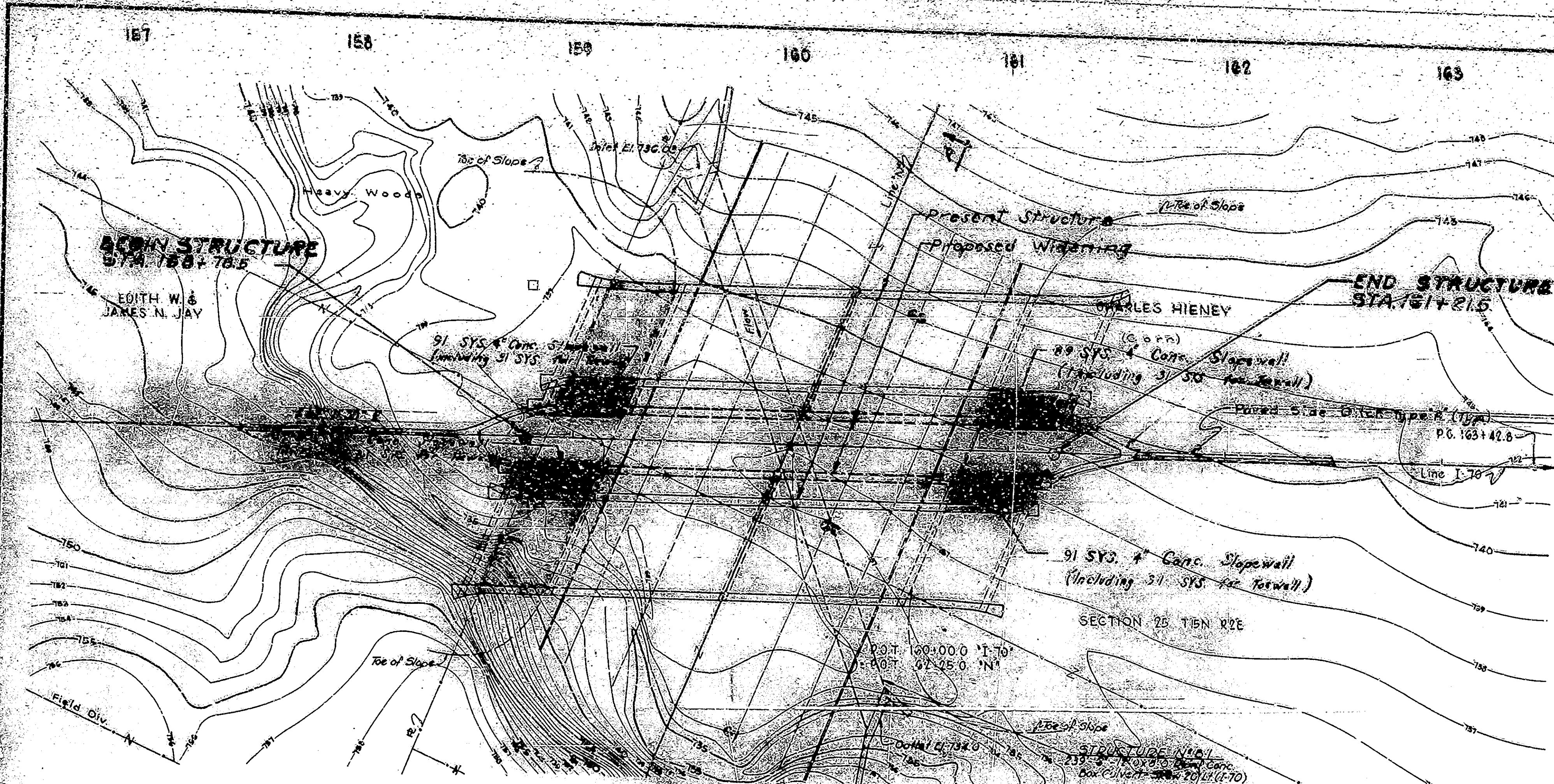
[illegible]

RECOMMENDED FOR APPROVAL 11-4-68
C. J. Kengelhoefer



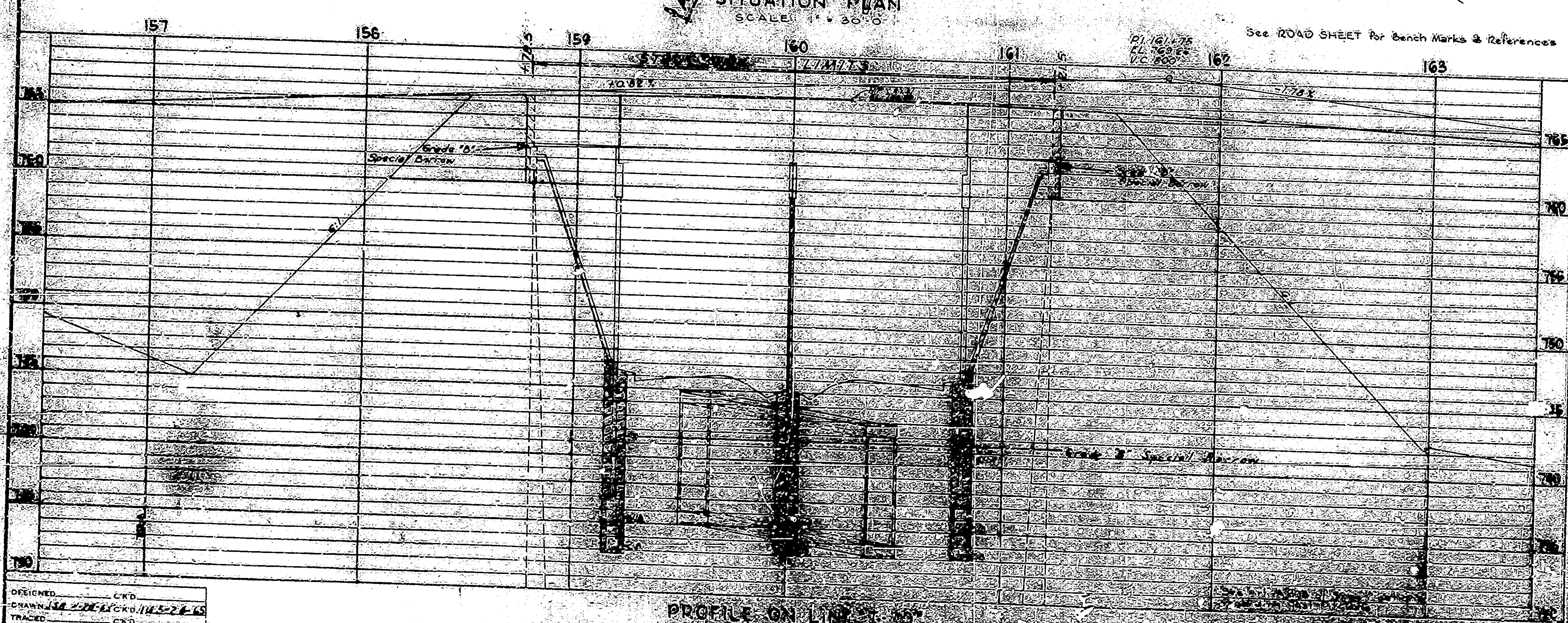
APPROVED:

BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	BRIDGE	TOTAL
RECORD		NO.	YEAR	NO.	BRIDGES
4	IND.	1-485	1965	6	30



EARTHWORK SUMMARY

Net Fill	120.3	0	Cu Yds.
Surplus Foundation Exc.	573	0	Cu Yds.
Common Exc.	50	0	Cu Yds.
Waste	623	0	Cu Yds.



LAYOUT
WIDENED R.C GIRDER & CONTINUOUS STEEL BEAM
 4 SPANS 57.0 FEET EACH
 20' ROADWAYS - 2' FOOTING
 1 TO OVER 1.000
INDIANA STATE HIGHWAY DEPARTMENT
MARION COUNTY
 SCALE: AS NOTED
 DRAWING 231 OF 29
 PROJECT 1-485-11-100
 BRIDGE CONTRACT NO. 100-11-100
 BRIDGE FILE NO. 100-11-100-11

BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-465- 670/53	1965	7	30

Depth of footings to be estimated if found necessary. See Art B 403.2 (a) Specifications.

For details of steel encased concrete piles see Br. Std. C, Special Provisions and applicable articles in the Specifications.

Piles shall be driven to elevation shown on plans or below if necessary to obtain desired bearing.

Reinforcing steel covering shall be 1/2 inches in top and 1 inch in bottom of floor slabs, 5 inches in footings except bottom steel which shall be 4 inches 1/2 for stirrups in T-beams, and 2 inches in all other parts unless noted.

Concrete in footings and collision walls to be class "B".

Concrete in superstructure, including concrete railing, and bent caps to be class "A".

Concrete in bent columns, shapewalls, steel encased concrete piles to be class "B".

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

Waterproof back of mudwalls and bent caps in accordance with the Specifications.

Bent forms & under capings, and chamfer exposed edges 1 inch unless noted.

Construct 6" concrete shapewall at locations as shown on Layout. Tolerance in position of pile head maximum 2 inches.

Three 1/2 inch Expansion Joints with Lead Transfer to be placed in the pavement as shown on Br. Std. Ms.

All railings to be constructed perpendicular to grade.

When new work is to be fitted to old work the contractor shall check all dimensions and conditions in the field, and report any errors or discrepancies to the Engineer or assume responsibility for their correctness and the fit of new parts to old.

For Pay Items covering this structure see "Bridge Summary". See Special Provisions or items included in this contract.

Section of Aluminum Siding (Type I) is to be removed and reset as indicated on detail plans.

Joint "D" indicates $\frac{1}{2}$ " Preformed Joint Filler placed under front & of girder bearing area at End Bents.
1" Expansion Joint - See Bridge Standard C.
1 $\frac{1}{2}$ " Exp. Joint - Same as 1" Exp. Jt. except thickness - see Br. St. C.

Designed for HS 20-44 loading in accordance
with 1961 AASHTO specifications.
Checked for special loading of 2-24,000
lb. axles spaced @ 4'-0" Centers.

See Street No 2

BRIDGE STATE		ROAD STD.		PURPOSE
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95
96	97	98	99	100

GENERAL PLAN
WIDENED R.C. GIRDER & CONTINUOUS STEEL BEAM BRIDGE
4 SPANS 3'-0" 2'-0" 8'-0" 3'-0" TWIN STRUCTURES
5'-0" ROADWAY SKIN 2'-0" 8'-0" 2'-0" CURB

INDIANA STATE HIGHWAY COMMISSION
MARION COUNTY

SCALE: $\frac{1}{16} = 1" (D.N.)$ — JUNE 15 1968

RECOMMENDED FOR APPROVAL: *CRB*

DRAWING: 92 OF 18

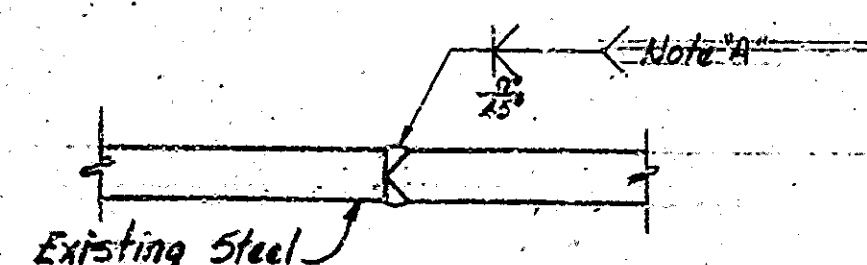
PROJECT: 2405-4 (18) 55 \$ 32.160+00

BRIDGE CONTRACT NO. B-0922

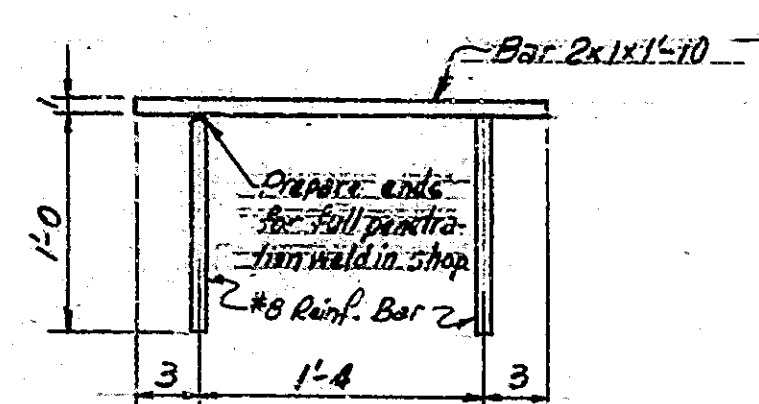
BRIDGE FILE: 70-73-3047A

DESIGNED _____ CHKD _____
DRAWN 15873 RECD JW 5-4-30

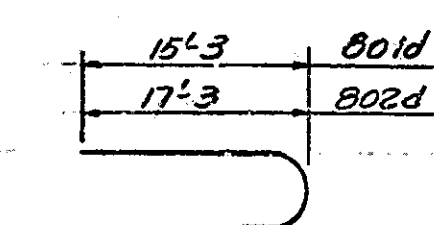
BRIDGES OVER 20' SPAN							
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS		
4	IND.	1-463-1 (78)	1965	12	80		



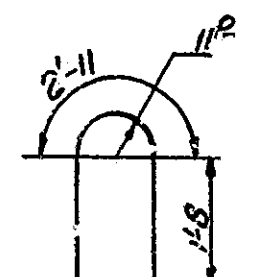
DETAIL A



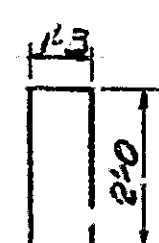
DETAIL FOR ANCHOR PLATE MK AP₂



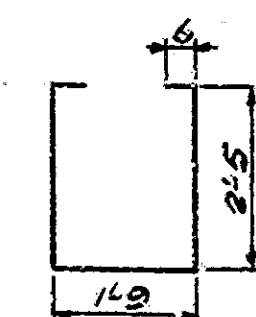
801d x 16'-4"
802d x 17'-4"



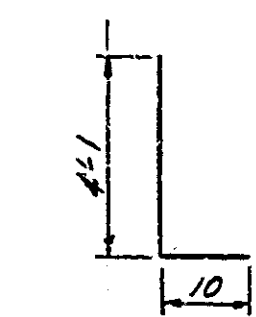
501d x 6'-3"
502d x 7'-1"



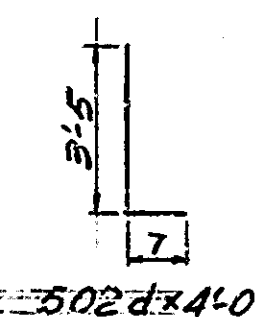
401d x 5'-3"
402d x 6'-0"



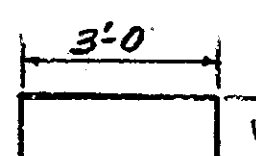
301d x 7'-7"
302d x 8'-0"



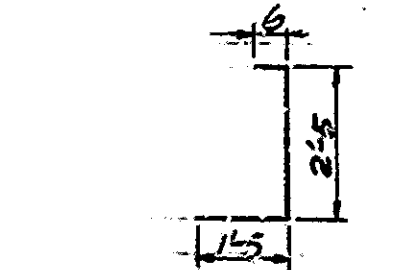
701d x 4'-11"
702d x 5'-0"



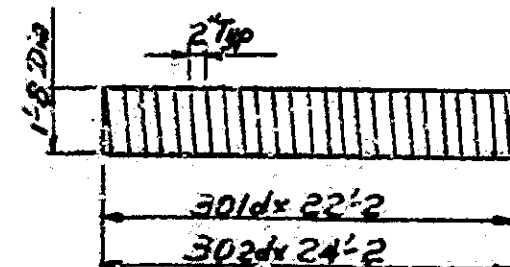
502d x 4'-0"
503d x 4'-0"



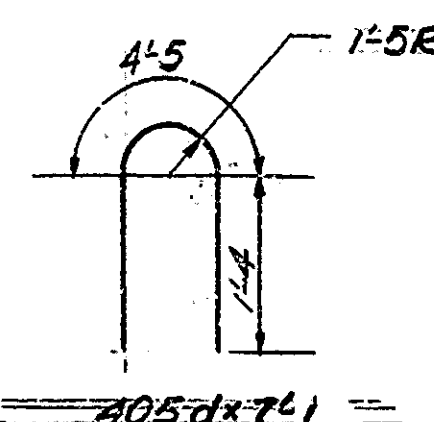
402d x 4'-0"
403d x 4'-0"



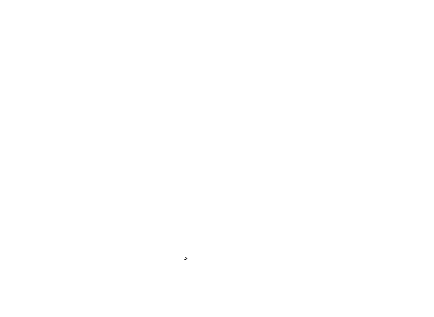
404d x 4'-4"
405d x 4'-4"



301d x 22'-2"
302d x 24'-2"



405d x 7'-1"
406d x 7'-1"



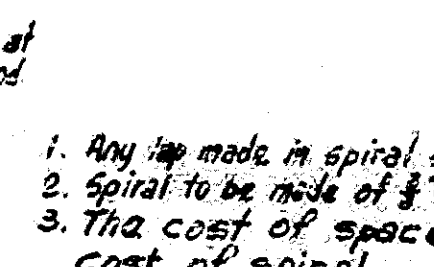
501d x 4'-0"
502d x 4'-0"



402d x 4'-0"
403d x 4'-0"



404d x 4'-4"
405d x 4'-4"



301d x 22'-2"
302d x 24'-2"

- Any lap made in spiral shall be by welding or 1 1/2 turns lap.
- Spiral to be made of 3/8" cold drawn wire.
- The cost of spacer is to be included in the cost of spiral.

BENT NO. 2 E.B.

REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight
801d	8	16'-4	
#8	8	12'-6	
Total #8			616
701d	10	4'-11	
#7	10	16'-3	
#7	10	12'-3	
Total #7			683
501d	9	6'-3	
502d	8	4'-0	
#5	8	13'-9	
#5	16	9'-9	
#5	2	8'-6	
#5	11	6'-0	
Total #5			456
401d	19	5'-3	
402d	25	4'-0	
403d	30	7'-7	
404d	5	4'-4	
405d	2	7'-1	
#4	2	15'-6	
#4	2	14'-0	
#4	5	10'-0	
Total #4			382
301d	1	22'-2	267
Total Steel			2404
CONCRETE			
Class F in Cap	6.2 Cu Yds		
Class D in Column	1.2 Cu Yds		
Class E above Flg	12.0 Cu Yds		
Class E in Flg	5.1 Cu Yds		
MISCELLANEOUS			
Anchor R MK AP2	3 Ea		

BENT NO. 2 W.B.

REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight
802d	8	18'-4	
#8	8	12'-6	
Total #8			659
701d	10	4'-11	
#7	10	14'-9	
#7	10	11'-9	
Total #7			642
501d	8	6'-3	
502d	8	4'-0	
#5	8	12'-3	
#5	14	9'-9	
#5		8'-3	
#5		6'-0	
Total #5			416
401d	23	5'-3	
402d	26	4'-0	
403d	30	7'-7	
404d	5	4'-4	
405d	2	7'-1	
#4	2	17'-6	
#4	2	17'-0	
#4	5	9'-9	
Total #4			405
302d	1	24'-2	291
Total Steel			2413
CONCRETE			
Class F in Cap	6.4 Cu		
Class D in Column	1.1 Cu		
Class E above Flg	10.6 Cu		
Class E in Flg	4.9 Cu		
MISCELLANEOUS			
Anchor R- NK AP2	3 Ea		

BENT NO. 4 E.B.

REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight
802d	8	18'-4	
#8	8	12'-6	
Total #8			659
701d	10	4'-11	
#7	10	16'-3	
#7	10	12'-3	
Total #7			683
501d	9	6'-3	
502d	8	4'-0	
#5	8	13'-9	
#5	16	9'-9	
#5	2	8'-3	
#5	11	6'-0	
Total #5			456
401d	23	5'-3	
402d	26	4'-0	
403d	30	7'-7	
404d	5	4'-4	
405d	2	7'-1	
#4	2	17'-6	
#4	2	17'-0	
#4	5	9'-9	
Total #4			405
301d	1	22'-2	267
Total Steel			2470
CONCRETE			
Class F in Cap	6.5 Cu Yds		
Class D in Column	1.2 Cu Yds		
Class E above Flg	11.9 Cu Yds		
Class E in Flg	4.9 Cu Yds		
MISCELLANEOUS			
Anchor R MK AP ₂	3 Ea		

BENT NO. 4 W.B.

REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight
801d	8	16'-4	
#8	8	12'-6	
Total #8			616
701d	10	4'-11	
#7	10	14'-9	
#7	10	11'-9	
Total #7			642
501d	8	6'-3	
502d	8	4'-0	
#5	8	12'-3	
#5	14	9'-9	
#5	2	8'-6	
#5	11	6'-0	
Total #5			417
401d	19	5'-3	
402d	25	4'-0	
403d	30	7'-7	
404d	5	4'-4	
405d	2	7'-1	
#4	2	15'-6	
#4	2	14'-0	
#4	5	10'-0	
Total #4			382
302d	1	24'-2	291
Total Steel			2348
CONCRETE			
Class F in Cap	6.2 Cu		
Class D in Column	1.1 Cu		
Class E above Flg	10.7 Cu		
Class E in Flg	5.1 Cu		
MISCELLANEOUS			
Anchor R MK AP ₂	3 Ea		

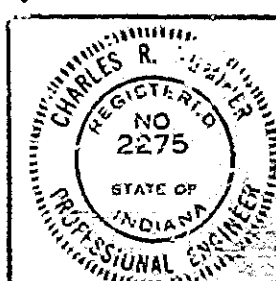
Notes:
See Br. Std. C1 for reinforcing bar Notes.
See Drug S. 5.6 for additional details.

BENT NO. 2 & BENT NO. 4 DETAILS AND BILL OF MATERIAL INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0" JUNE 15, 1965

RECOMMENDED FOR APPROVAL: C. R. R. R.

DRAWING: 57 OF 19
PROJECT: 1-463-1 (78) 135
BRIDGE CONTRACT NO. B-6922
BRIDGE FILE: 1-70-73-4-647A



DESIGNED: C.Y.D.
DRAWN: W.H.W.
TRACED: C.Y.D.

BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-465	1965	13	30

**BILL OF MATERIALS
BENT #3 EAST BOUND**

REINFORCING STEEL			
SIZE AND MARK	NO. OF BARS	LENGTH	WEIGHT
1101f	3	18'-6"	786#
901f	1	2'-4"	
902f	1	9'-0"	
#9	8	13'-3"	
	Total #9		423#
701f	10	4'-10"	
#7	10	16'-3"	
#7	10	13'-0"	
	Total #7		697#
501f	16	7'-10"	
503f	2	3'-6"	
504f	9	6'-0"	
505f	8	3'-11"	
#5	8	13'-6"	
#5	16	9'-6"	
#5	2	8'-3"	
#5	20	8'-0"	
	Total #5		682#
401f	24	7'-7"	
402f	26	3'-3"	
#4	7	9'-9"	
	Total #4		224#
301f	1	24'-8"	297#
	TOTAL STEEL		3109#

CONCRETE	
Class F Cap	4.5 Cu.Yds.
Class D Column	7.3 Cu.Yds.
Class E Above Footing	17.4 Cu.Yds.
Class E In Footing	8.3 Cu.Yds.

MISCELLANEOUS	
Anchor Plates AP2	3 Each

Note: See Br. Std. C1 for Reinforcing Bar Notes.
Anchor Plates AP2 shall be pre-set in the concrete.
See Drwg. S7 for Anchor Plate details, and detail "A"
Clean and straighten exposed reinforcing steel.

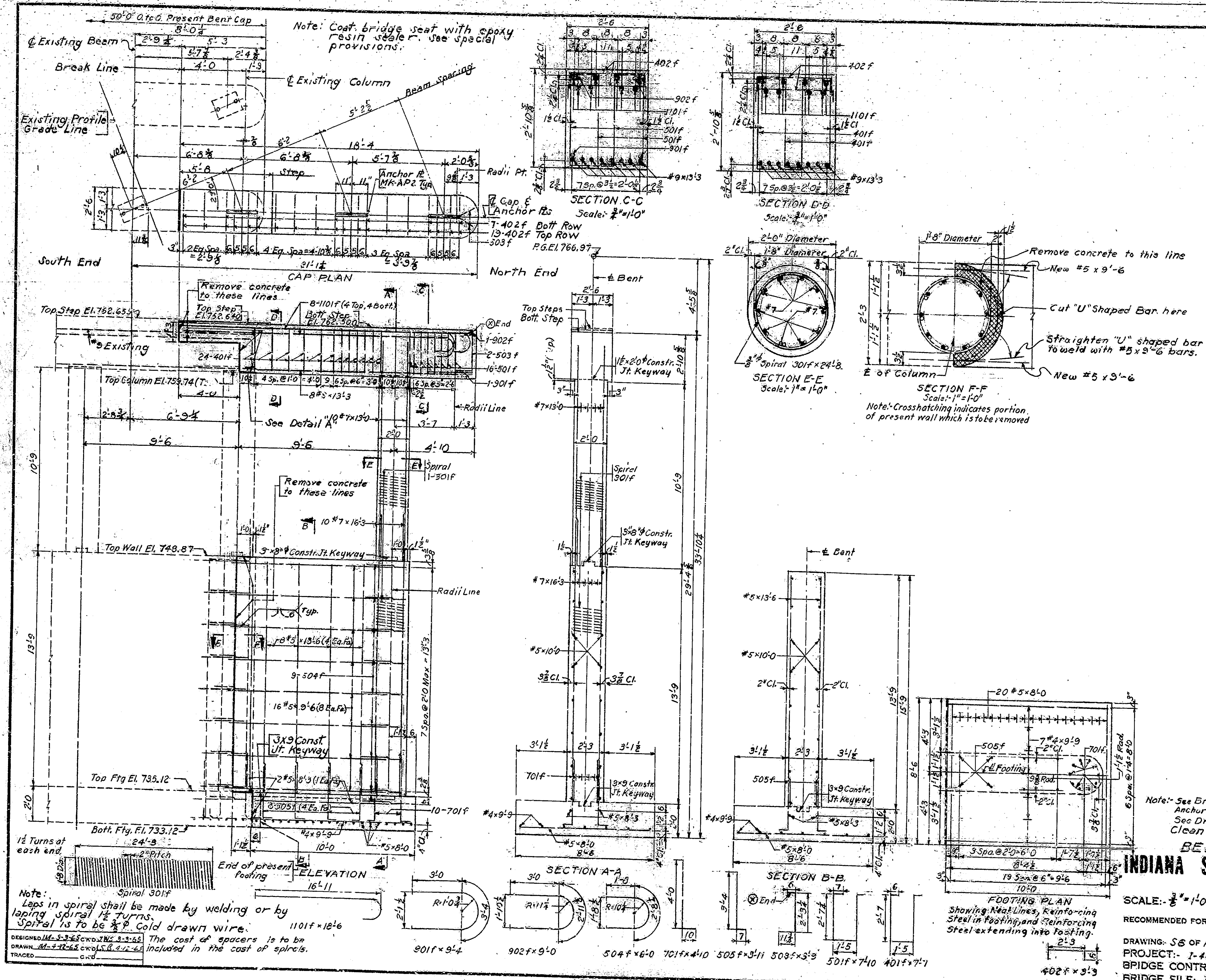
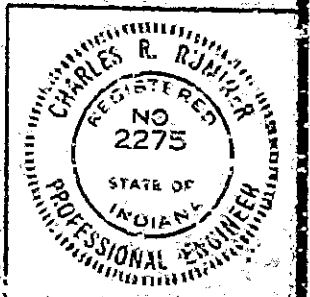
**BENT #3 DETAILS (E.B.)
INDIANA STATE HIGHWAY COMMISSION**

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

JUNE 15, 1965

RECOMMENDED FOR APPROVAL: *C.R. Rummel*
ENGINEER OF BRIDGE DESIGN

DRAWING: S6 OF 19
PROJECT: 1-465-4(78) 155
BRIDGE CONTRACT NO. B-6922
BRIDGE FILE: 1-70-73-4647A



Note: Laps in spiral shall be made by welding or by lapping spiral 12 turns. Spiral is to be 3/8" Cold drawn wire. The cost of spacers is to be included in the cost of spirals.

[illegible]

BILL OF MATERIALS
BENT NO 3 WEST BOUND

CONCRETE	
Class F Cap	4.3 Cu.Yd
Class D Column	1.2 Cu.Yd
Class E Above Footing	9.9 Cu.Yd
Class E In Footing	6.3 Cu.Yd
MISCELLANEOUS	
Anchor Plates AP2	3 Each

Notes:
Clean and straighten exposed reinforcing steel.
See Br. Std. C4 for Reinforcing Bar Notes.
Anchor Plates #4 AP2 shall be reset in the concrete.
See Drwg 57 for Anchor Plate details and detail "A"

BENT NR3 DETAILS (W.B)

INDIANA STATE HIGHWAY COMMISSION

SCALE: $\frac{1}{8}'' = 1'-0''$ Unless Noted

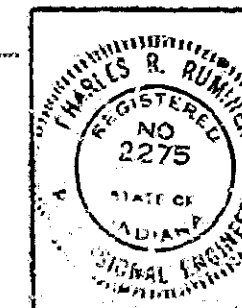
JUNE 25 1963

RECOMMENDED FOR APPROVAL

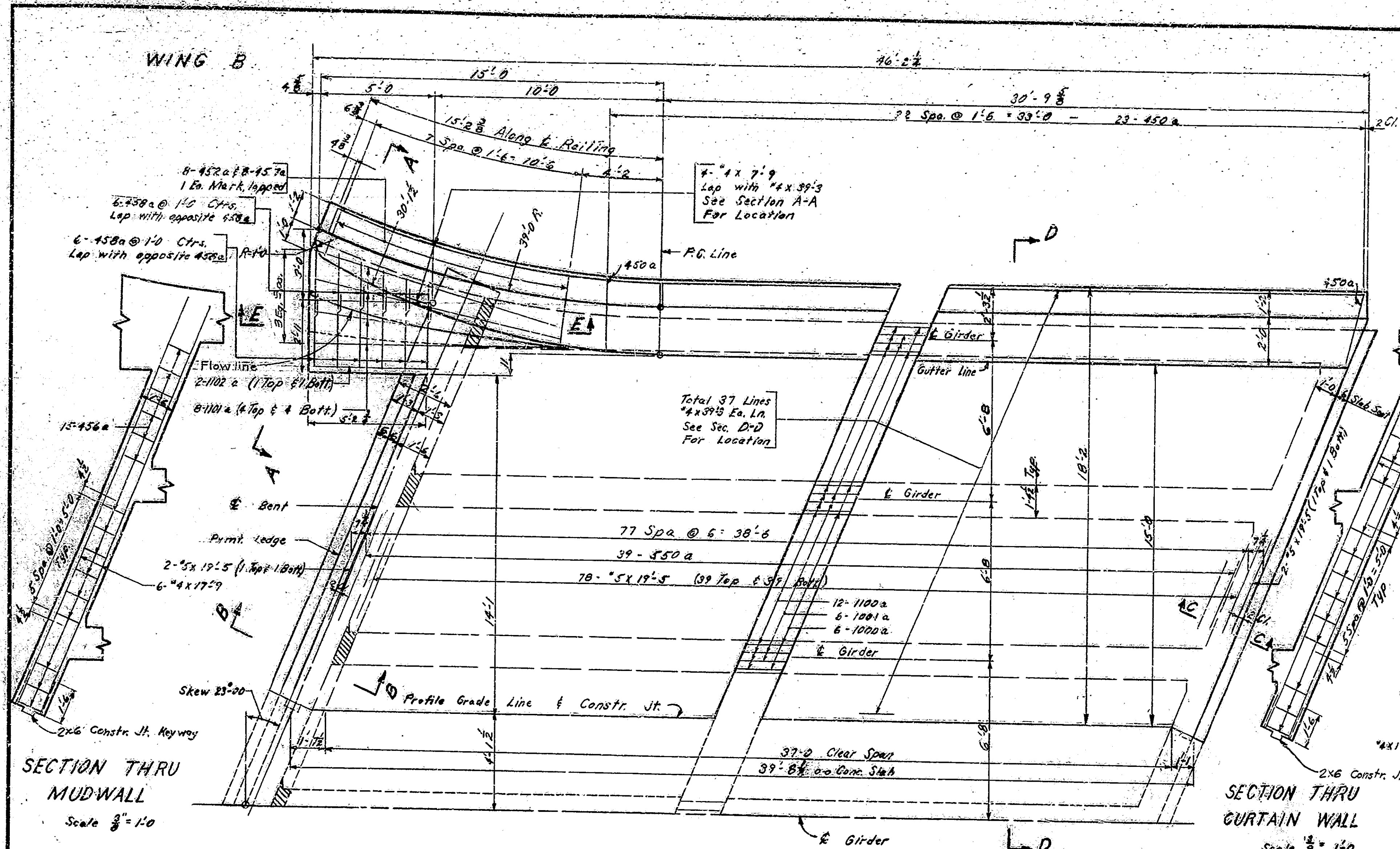
DRAWING: 50 OF 19

PROJECT - 1-465-4⁽⁷⁸⁾ 155

BRIDGE CONTRACT NO. B-6722

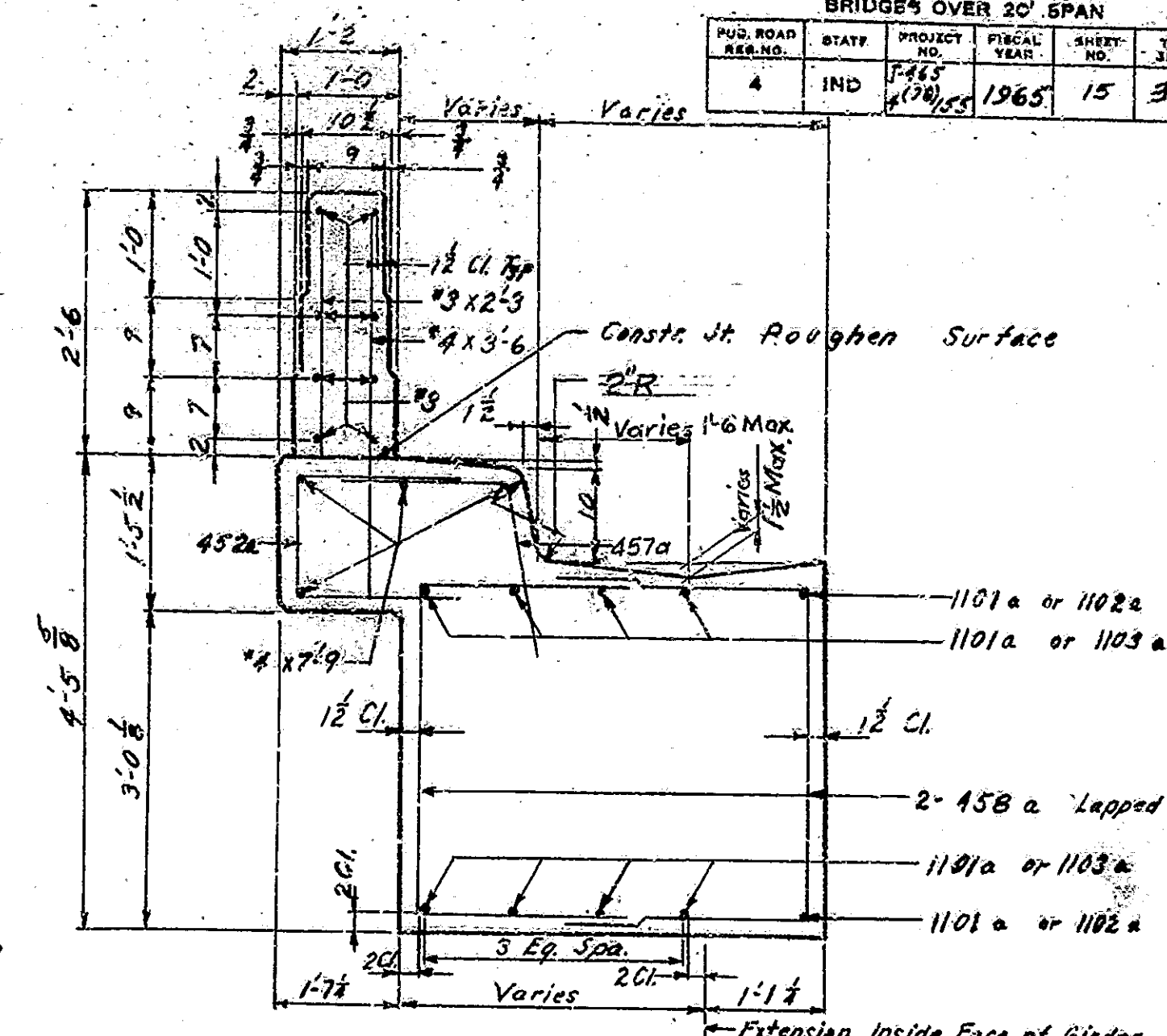


BRIDGES OVER 20' SPAN						
PROJ. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
4	IND	1-463-170	1965	15	30	

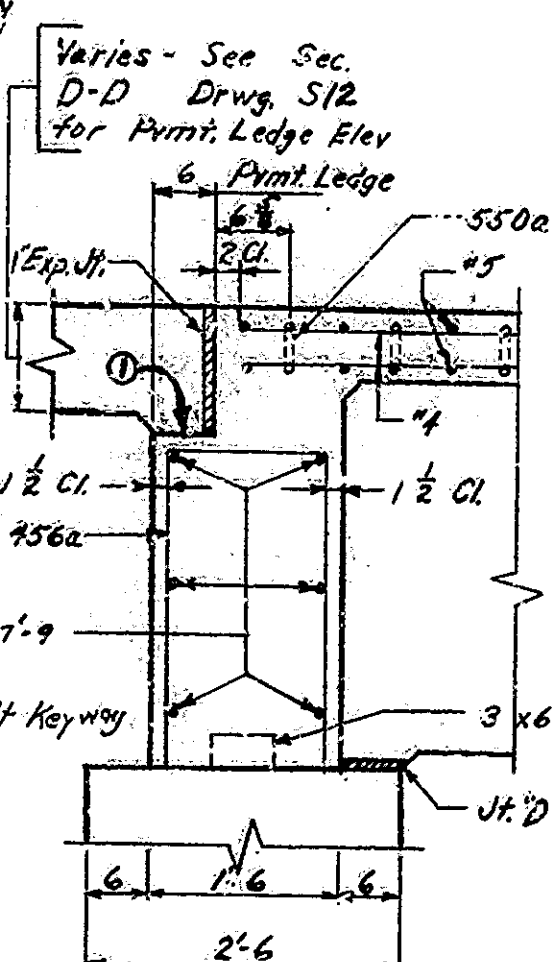


SECTION THRU MUDWALL
Scale: 3/8" = 1'-0"

SECTION THRU CURTAIN WALL
Scale: 3/8" = 1'-0"



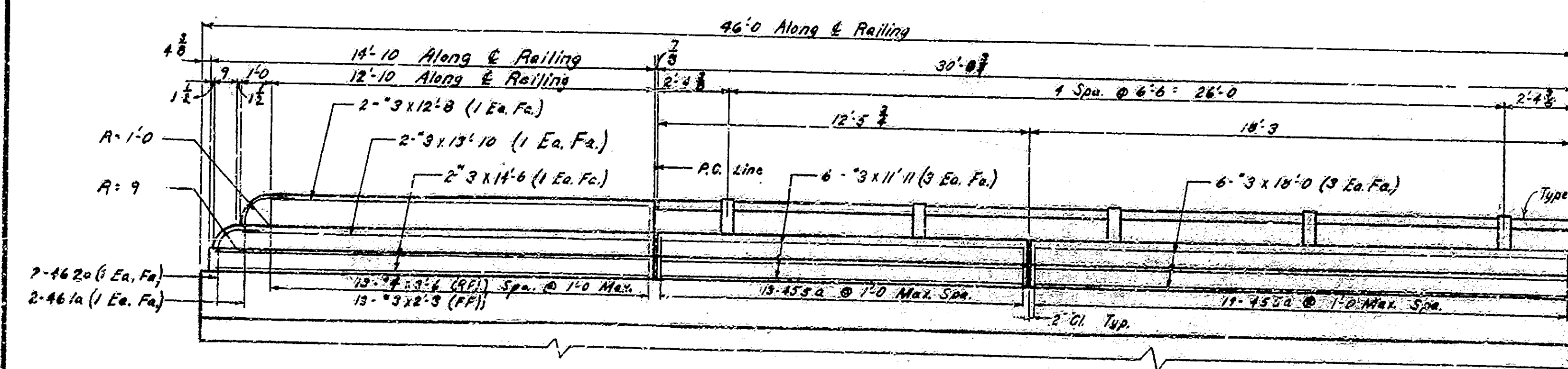
SECTION A-A
Scale: 3/8" = 1'-0"



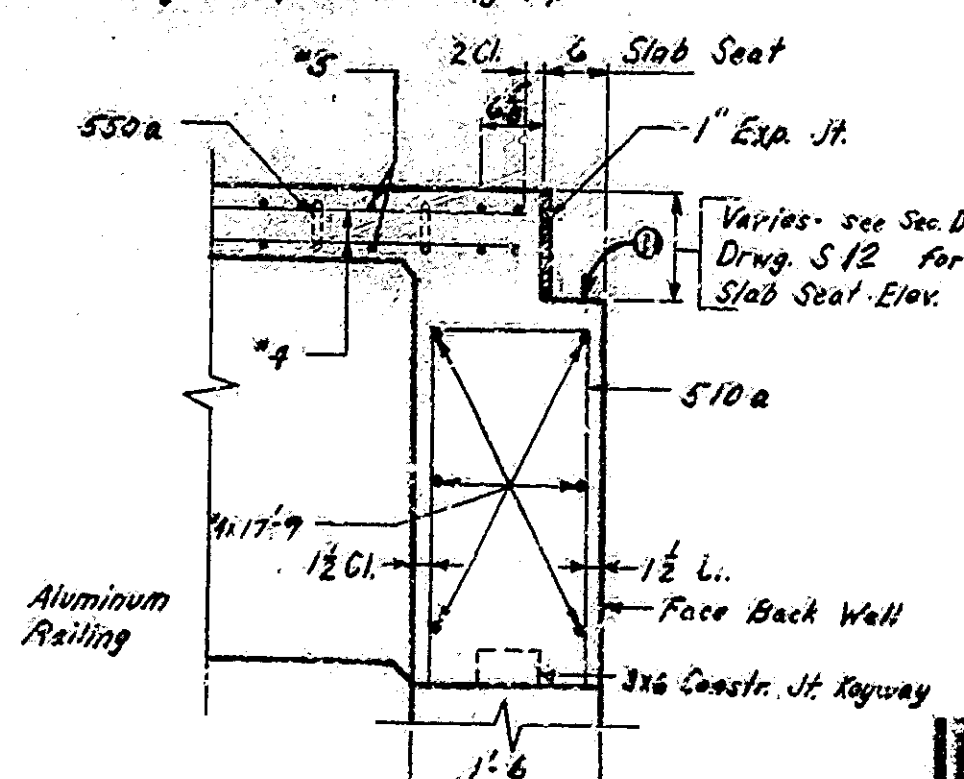
SECTION B-B
Scale: 3/8" = 1'-0"

NOTES:
For General Notes See Drawg. S-2
For reinforcing bar notes see Br. Std. C-1
For aluminum railing details see Br. Std. R-1-A
For additional details see Drawgs. S-11 & S-12
For location of sections D-D & E-E see Drawg. S-12

DESIGN DATA:
UNIT STRESSES: $f_s = 20,000 \text{ psi}$; $f_c = 12,000 \text{ psi}$
LIVE LOAD: HS 20-44 with impact and distribution of loads in accordance with 1957 A.A.S.H.O. specifications except for floor slabs which was designed for a 15,000 lb. wheel load.
DEAD LOAD: increased 35% of roadway for future wearing surface. Slab designed with 4" inch wearing surface.
Maximum dead load deflection = 5/16" inch.



ELEVATION
Scale: 3/8" = 1'-0"

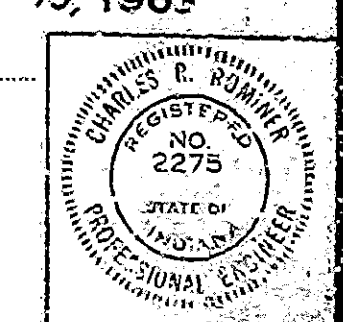


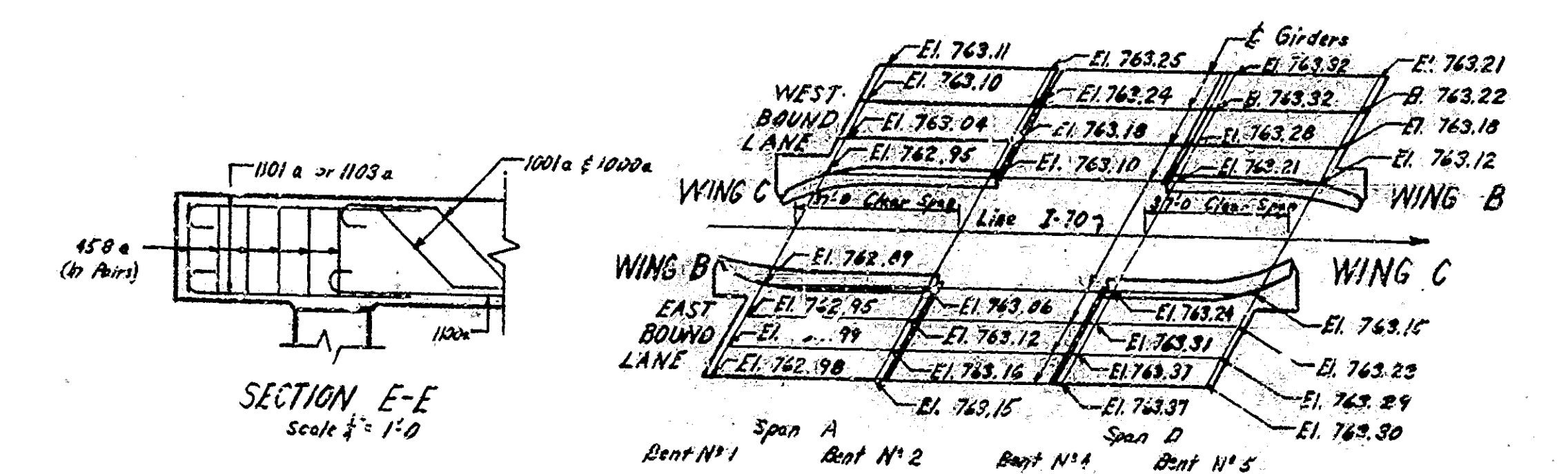
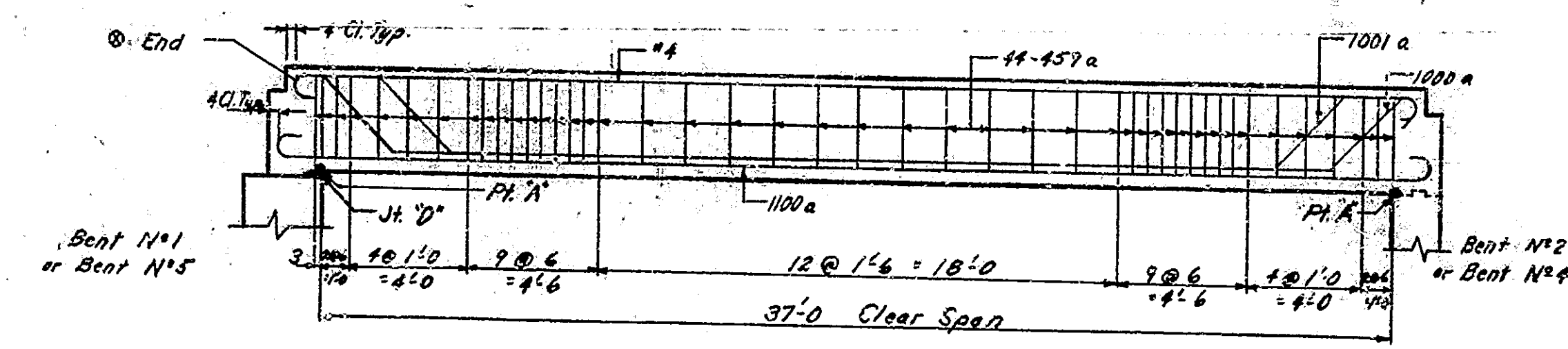
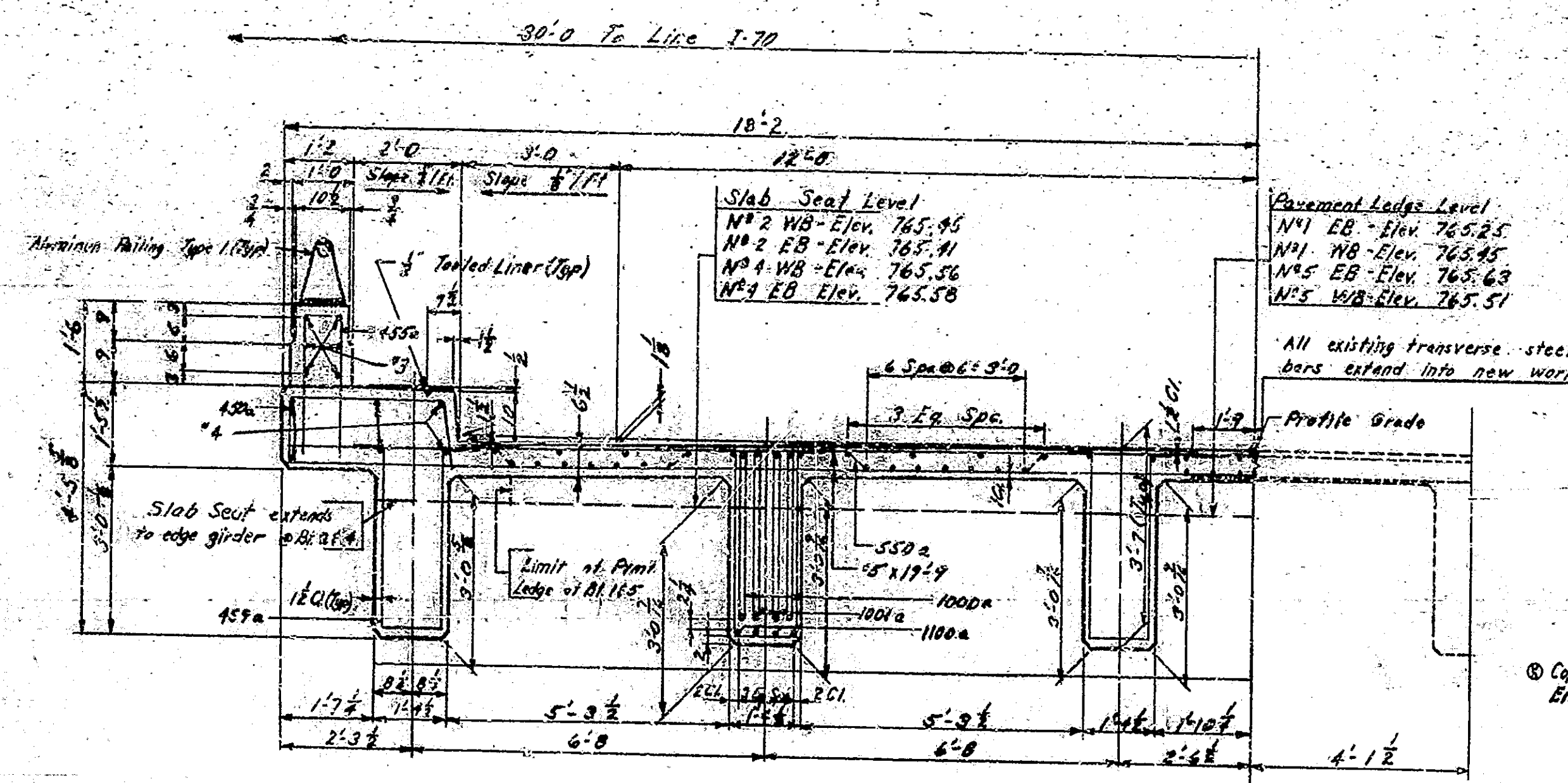
SECTION C-C
Scale: 3/8" = 1'-0"

SPAN 'A' (EB) & SPAN 'D' (WB) DETAILS
INDIANA STATE HIGHWAY COMMISSION

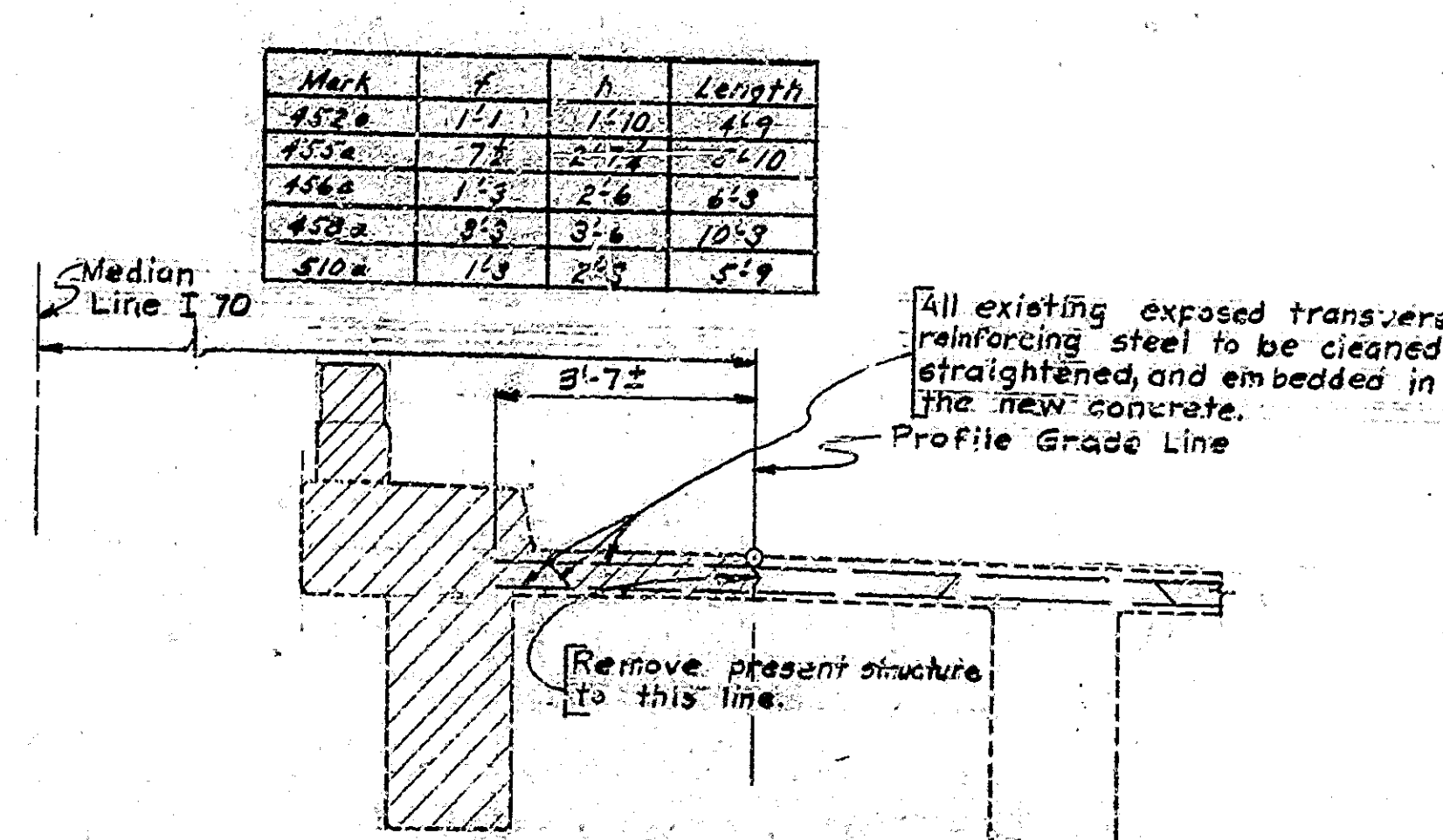
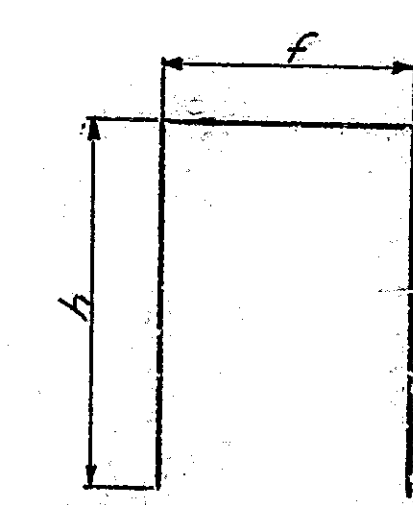
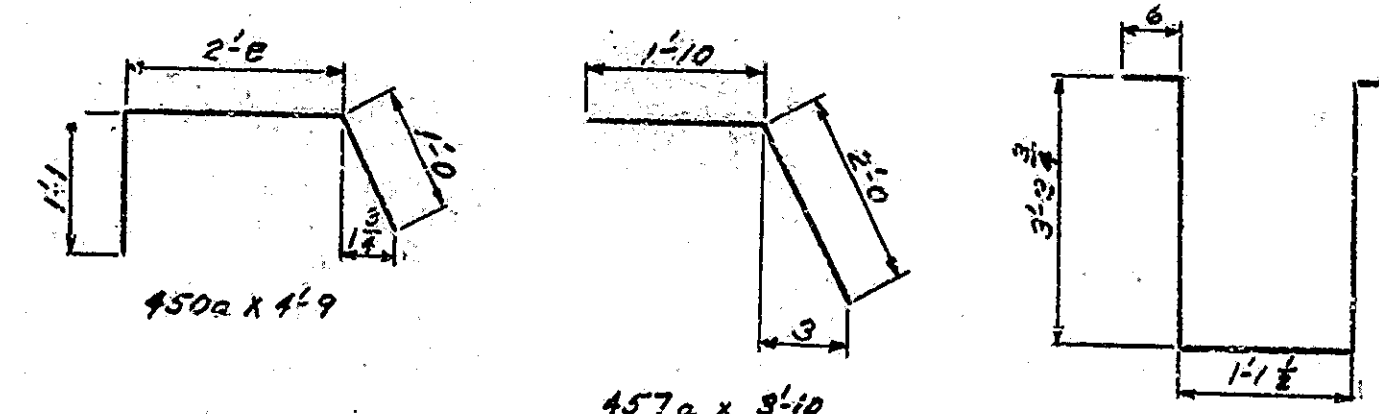
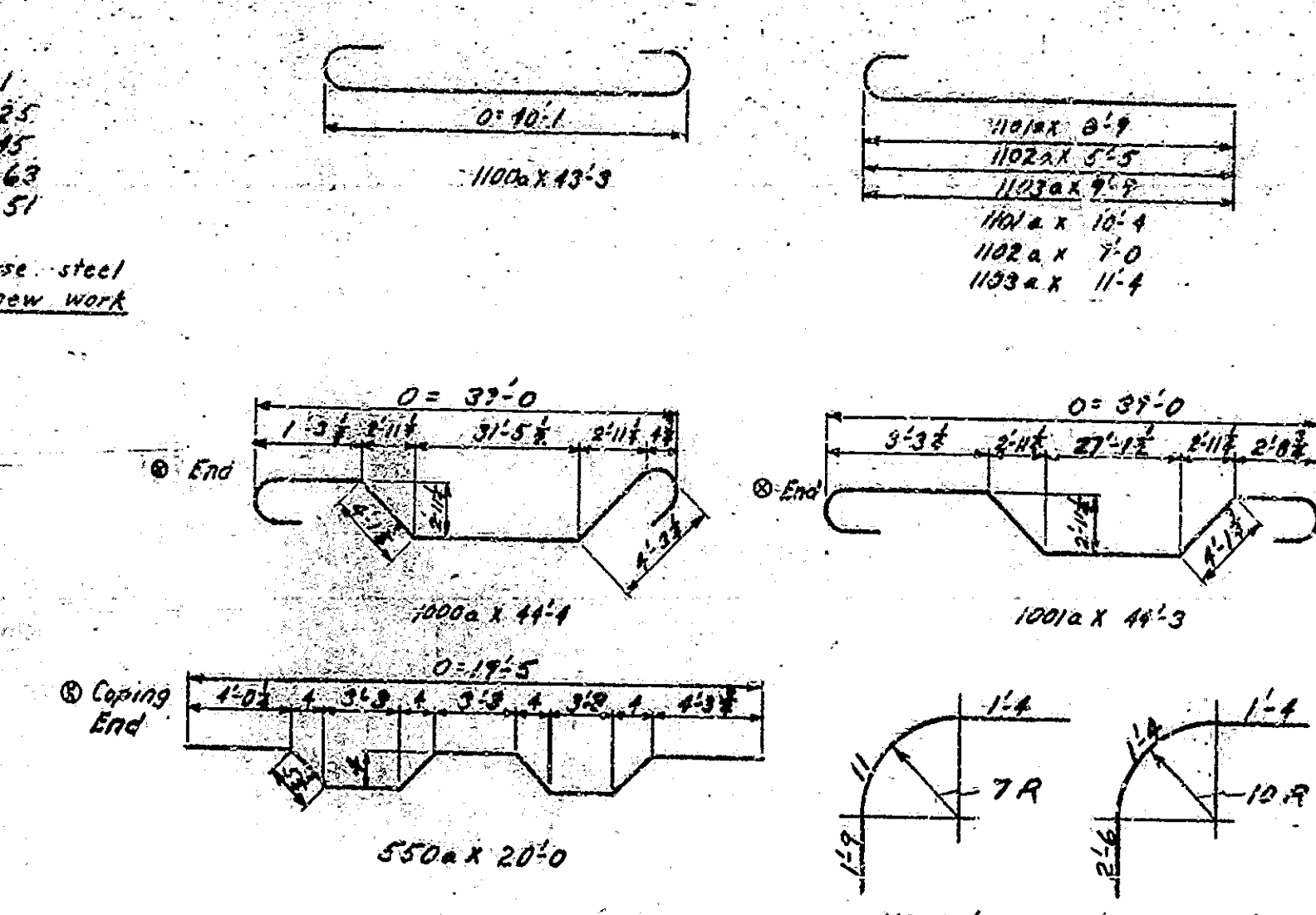
SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: C.R. [Signature]
DRAWING: S-100F 1/9
PROJECT: I-463-170/55
BRIDGE CONTRACT NO. B-6922
BRIDGE FILE: I-70-73-467-A
JUNE 15, 1965

DESIGNED: CWD
DRAWN: J.R. [Signature]
CHECKED: CWD





BOTTOM OF GIRDER ELEVATIONS AT POINT A & WING LOCATION
Not to Scale



BILL OF MATERIALS SPAN A - EASTBOUND LANE (SPAN D - WESTBOUND LANE-SAME)

REINFORCING			STEEL
Mark Size	No. of Bars	Length ft.	Weight lbs.
100a	12	45'-3"	1100a
101a	8	10'-6"	1101a
102a	2	7'-0"	1102a
Total #1			3271 "
100a	6	44'-4"	1000a
101a	6	44'-3"	1001a
Total #1			2227 "
510a	15	5'-9"	510a
520a	39	20'-0"	520a
53	18	19'-5"	53a
Total #5			2558 "
450a	23	4'-9"	450a
452a	3	4'-9"	452a
455a	32	5'-10"	455a
456a	15	6'-3"	456a
457a	8	3'-10"	457a
458a	12	10'-3"	458a
459a	10	8'-9"	459a
461a	2	5'-2"	461a
462a	2	4'-0"	462a
463a	27	39'-3"	463a
464a	12	17'-9"	464a
465a	4	17'-9"	465a
466a	13	3'-4"	466a
Total #4			2336 "
109	6	10'-0"	109
110	2	10'-0"	110
111	2	13'-10"	111
112	2	12'-8"	112
113	6	17'-11"	113
114	13	8'-3"	114
Total Steel			10,567 "
CONCRETE			
Total	Class #1	26.8 cys	
Railing Concrete		2.7 cys	
MISCELLANEOUS			
Resetting Aluminum			
Railing (Type 1)		30.7 Lbs.	

BILL OF MATERIALS SPAN A - WESTBOUND LANE (SPAN D - EASTBOUND LANE-SAME)

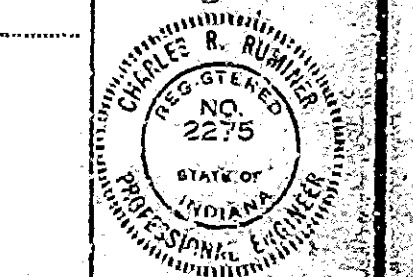
REINFORCING			STEEL
Mark # Size	Nº of Bars	Length	Weight lbs.
100a	12	45'-3"	
101a	2	10'-6"	
102a	8	7'-0"	
Total #1			3327
1000a	6	34'-4"	
1001a	6	24'-3"	
Total #10			2287
510a	15	5'-9"	
520a	39	20'-0"	
53	18	19'-5"	
Total #5			2558
450a	22	4'-9"	
452a	3	4'-9"	
455a	32	5'-10"	
456a	15	6'-3"	
457a	8	3'-10"	
458a	12	10'-3"	
459a	10	8'-9"	
461a	2	5'-2"	
462a	2	4'-0"	
463	27	39'-3"	
464	12	17'-9"	
465	4	17'-9"	
466	13	3'-4"	
Total #4			2336
109	6	10'-0"	
110	2	10'-0"	
111	2	13'-10"	
112	2	12'-8"	
113	6	17'-11"	
114	13	8'-3"	
Total #3			1099
Total Steel		10,567	
CONCRETE			
Total Class #1			26.8 cys
Railing Concrete			2.7 cys
MISCELLANEOUS			
Resetting Aluminum Railing			30.7 LBS.
(Type 1) X			30.7 LBS.

* New anchor bolts, nuts, and washers are to be used. The cost is to be included in "Resetting Aluminum Railing (Type 1)".

NOTES:
For General Notes see Drwg. S2
For reinforcing bar notes see Br. Std. C.
For additional details see Drwg. S10 & S11
For location of sections A-B, B-C, C-D see Drwg. S10
For aluminum railing details see Br. Std. R1-A

SPAN A & SPAN D INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: C.R. Rimmer
DRAWING: S/2 OF 19
PROJECT: I-465-4(10)153
BRIDGE CONTRACT NO. B-3922
BRIDGE FILE: 170-73-4627 A
JUNE 15, 1965



DESIGNED: CKO
DRAWN: JSA
CHECKED: JWS
TRACED: CKO

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	1-465-4	1965	18	20

Span B: 23'-7 1/2" (23'-0" + 7'-7 1/2")

Span C: 60'-0" (21'-0" + 15'-9 1/2" + 15'-0 1/2" + 17'-3" + 15'-0" + 21'-0")

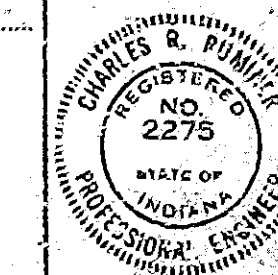
Span D: 60'-0" (21'-0" + 15'-9 1/2" + 15'-0 1/2" + 17'-3" + 15'-0" + 21'-0")

Beams: NB1, NB2, NB3, NB4, NB5, NB6, EB1, EB2, EB3, EB4, EB5, EB6, NB7, NB8, NB9, NB10, NB11, NB12, NB13, NB14, NB15, NB16, NB17, NB18, NB19, NB20, NB21, NB22, NB23, NB24, NB25, NB26, NB27, NB28, NB29, NB30, NB31, NB32, NB33, NB34, NB35, NB36, NB37, NB38, NB39, NB40, NB41, NB42, NB43, NB44, NB45, NB46, NB47, NB48, NB49, NB50, NB51, NB52, NB53, NB54, NB55, NB56, NB57, NB58, NB59, NB60, NB61, NB62, NB63, NB64, NB65, NB66, NB67, NB68, NB69, NB70, NB71, NB72, NB73, NB74, NB75, NB76, NB77, NB78, NB79, NB80, NB81, NB82, NB83, NB84, NB85, NB86, NB87, NB88, NB89, NB90, NB91, NB92, NB93, NB94, NB95, NB96, NB97, NB98, NB99, NB100, NB101, NB102, NB103, NB104, NB105, NB106, NB107, NB108, NB109, NB110, NB111, NB112, NB113, NB114, NB115, NB116, NB117, NB118, NB119, NB120, NB121, NB122, NB123, NB124, NB125, NB126, NB127, NB128, NB129, NB130, NB131, NB132, NB133, NB134, NB135, NB136, NB137, NB138, NB139, NB140, NB141, NB142, NB143, NB144, NB145, NB146, NB147, NB148, NB149, NB150, NB151, NB152, NB153, NB154, NB155, NB156, NB157, NB158, NB159, NB160, NB161, NB162, NB163, NB164, NB165, NB166, NB167, NB168, NB169, NB170, NB171, NB172, NB173, NB174, NB175, NB176, NB177, NB178, NB179, NB180, NB181, NB182, NB183, NB184, NB185, NB186, NB187, NB188, NB189, NB190, NB191, NB192, NB193, NB194, NB195, NB196, NB197, NB198, NB199, NB200, NB201, NB202, NB203, NB204, NB205, NB206, NB207, NB208, NB209, NB210, NB211, NB212, NB213, NB214, NB215, NB216, NB217, NB218, NB219, NB220, NB221, NB222, NB223, NB224, NB225, NB226, NB227, NB228, NB229, NB230, NB231, NB232, NB233, NB234, NB235, NB236, NB237, NB238, NB239, NB240, NB241, NB242, NB243, NB244, NB245, NB246, NB247, NB248, NB249, NB250, NB251, NB252, NB253, NB254, NB255, NB256, NB257, NB258, NB259, NB260, NB261, NB262, NB263, NB264, NB265, NB266, NB267, NB268, NB269, NB270, NB271, NB272, NB273, NB274, NB275, NB276, NB277, NB278, NB279, NB280, NB281, NB282, NB283, NB284, NB285, NB286, NB287, NB288, NB289, NB290, NB291, NB292, NB293, NB294, NB295, NB296, NB297, NB298, NB299, NB300, NB301, NB302, NB303, NB304, NB305, NB306, NB307, NB308, NB309, NB310, NB311, NB312, NB313, NB314, NB315, NB316, NB317, NB318, NB319, NB320, NB321, NB322, NB323, NB324, NB325, NB326, NB327, NB328, NB329, NB330, NB331, NB332, NB333, NB334, NB335, NB336, NB337, NB338, NB339, NB340, NB341, NB342, NB343, NB344, NB345, NB346, NB347, NB348, NB349, NB350, NB351, NB352, NB353, NB354, NB355, NB356, NB357, NB358, NB359, NB360, NB361, NB362, NB363, NB364, NB365, NB366, NB367, NB368, NB369, NB370, NB371, NB372, NB373, NB374, NB375, NB376, NB377, NB378, NB379, NB380, NB381, NB382, NB383, NB384, NB385, NB386, NB387, NB388, NB389, NB390, NB391, NB392, NB393, NB394, NB395, NB396, NB397, NB398, NB399, NB400, NB401, NB402, NB403, NB404, NB405, NB406, NB407, NB408, NB409, NB410, NB411, NB412, NB413, NB414, NB415, NB416, NB417, NB418, NB419, NB420, NB421, NB422, NB423, NB424, NB425, NB426, NB427, NB428, NB429, NB430, NB431, NB432, NB433, NB434, NB435, NB436, NB437, NB438, NB439, NB440, NB441, NB442, NB443, NB444, NB445, NB446, NB447, NB448, NB449, NB450, NB451, NB452, NB453, NB454, NB455, NB456, NB457, NB458, NB459, NB460, NB461, NB462, NB463, NB464, NB465, NB466, NB467, NB468, NB469, NB470, NB471, NB472, NB473, NB474, NB475, NB476, NB477, NB478, NB479, NB480, NB481, NB482, NB483, NB484, NB485, NB486, NB487, NB488, NB489, NB490, NB491, NB492, NB493, NB494, NB495, NB496, NB497, NB498, NB499, NB500, NB501, NB502, NB503, NB504, NB505, NB506, NB507, NB508, NB509, NB510, NB511, NB512, NB513, NB514, NB515, NB516, NB517, NB518, NB519, NB520, NB521, NB522, NB523, NB524, NB525, NB526, NB527, NB528, NB529, NB530, NB531, NB532, NB533, NB534, NB535, NB536, NB537, NB538, NB539, NB540, NB541, NB542, NB543, NB544, NB545, NB546, NB547, NB548, NB549, NB550, NB551, NB552, NB553, NB554, NB555, NB556, NB557, NB558, NB559, NB560, NB561, NB562, NB563, NB564, NB565, NB566, NB567, NB568, NB569, NB570, NB571, NB572, NB573, NB574, NB575, NB576, NB577, NB578, NB579, NB580, NB581, NB582, NB583, NB584, NB585, NB586, NB587, NB588, NB589, NB590, NB591, NB592, NB593, NB594, NB595, NB596, NB597, NB598, NB599, NB600, NB601, NB602, NB603, NB604, NB605, NB606, NB607, NB608, NB609, NB610, NB611, NB612, NB613, NB614, NB615, NB616, NB617, NB618, NB619, NB620, NB621, NB622, NB623, NB624, NB625, NB626, NB627, NB628, NB629, NB630, NB631, NB632, NB633, NB634, NB635, NB636, NB637, NB638, NB639, NB640, NB641, NB642, NB643, NB644, NB645, NB646, NB647, NB648, NB649, NB650, NB651, NB652, NB653, NB654, NB655, NB656, NB657, NB658, NB659, NB660, NB661, NB662, NB663, NB664, NB665, NB666, NB667, NB668, NB669, NB670, NB671, NB672, NB673, NB674, NB675, NB676, NB677, NB678, NB679, NB680, NB681, NB682, NB683, NB684, NB685, NB686, NB687, NB688, NB689, NB690, NB691, NB692, NB693, NB694, NB695, NB696, NB697, NB698, NB699, NB700, NB701, NB702, NB703, NB704, NB705, NB706, NB707, NB708, NB709, NB710, NB711, NB712, NB713, NB714, NB715, NB716, NB717, NB718, NB719, NB720, NB721, NB722, NB723, NB724, NB725, NB726, NB727, NB728, NB729, NB730, NB731, NB732, NB733, NB734, NB735, NB73

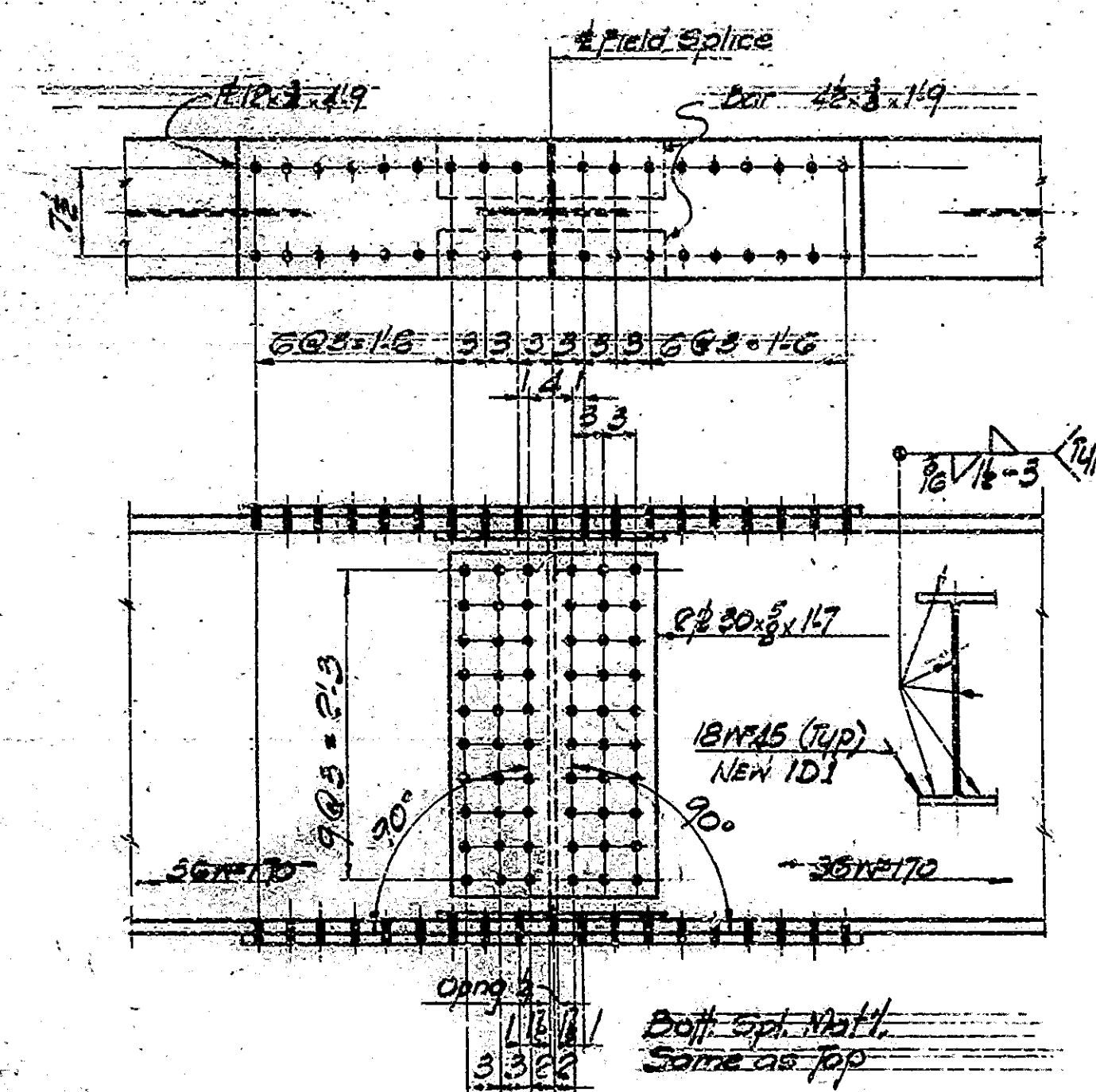
SCALE: 1" = 10' Horiz 1" = 1' Vert

RECOMMENDED FOR APPROVAL: *C. R. Remington*

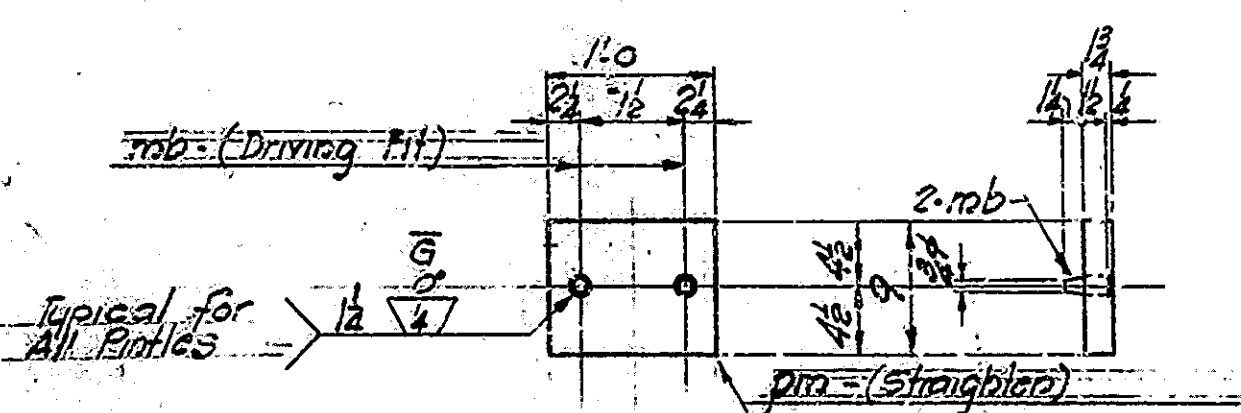
DRAWING: 913 OF 19
PROJECT: I-465-4(10) 105
BRIDGE CONTRACT NO. 2
BRIDGE FILE: 7-23-11



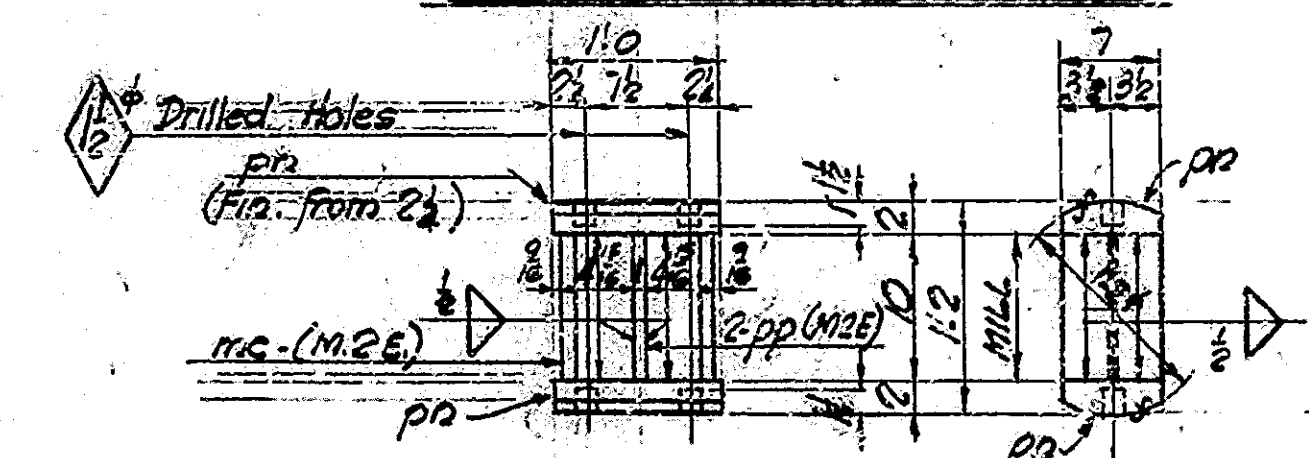
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-165-110155	1965	20	30



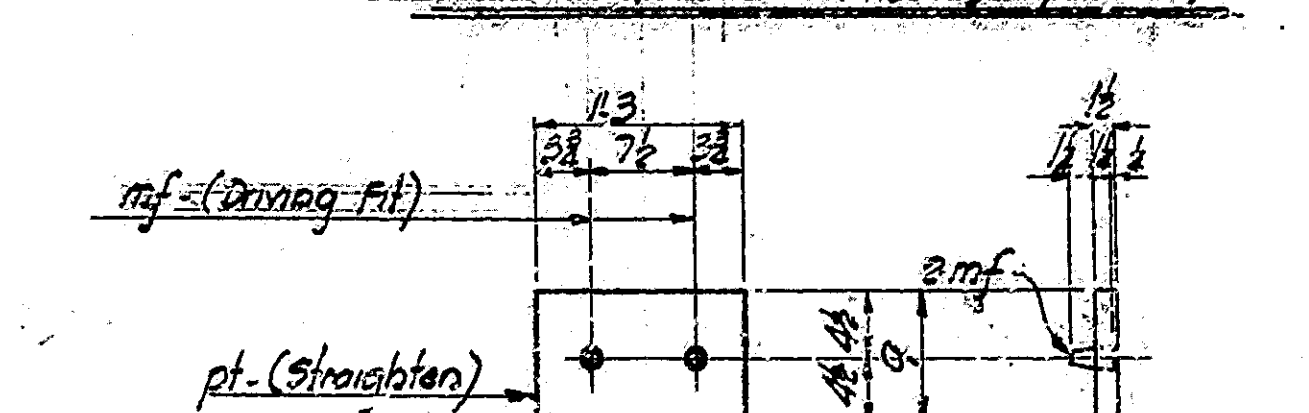
TYPICAL FIELD SPICE DETAIL
(Also showing typical field welding for interior diaphragms)



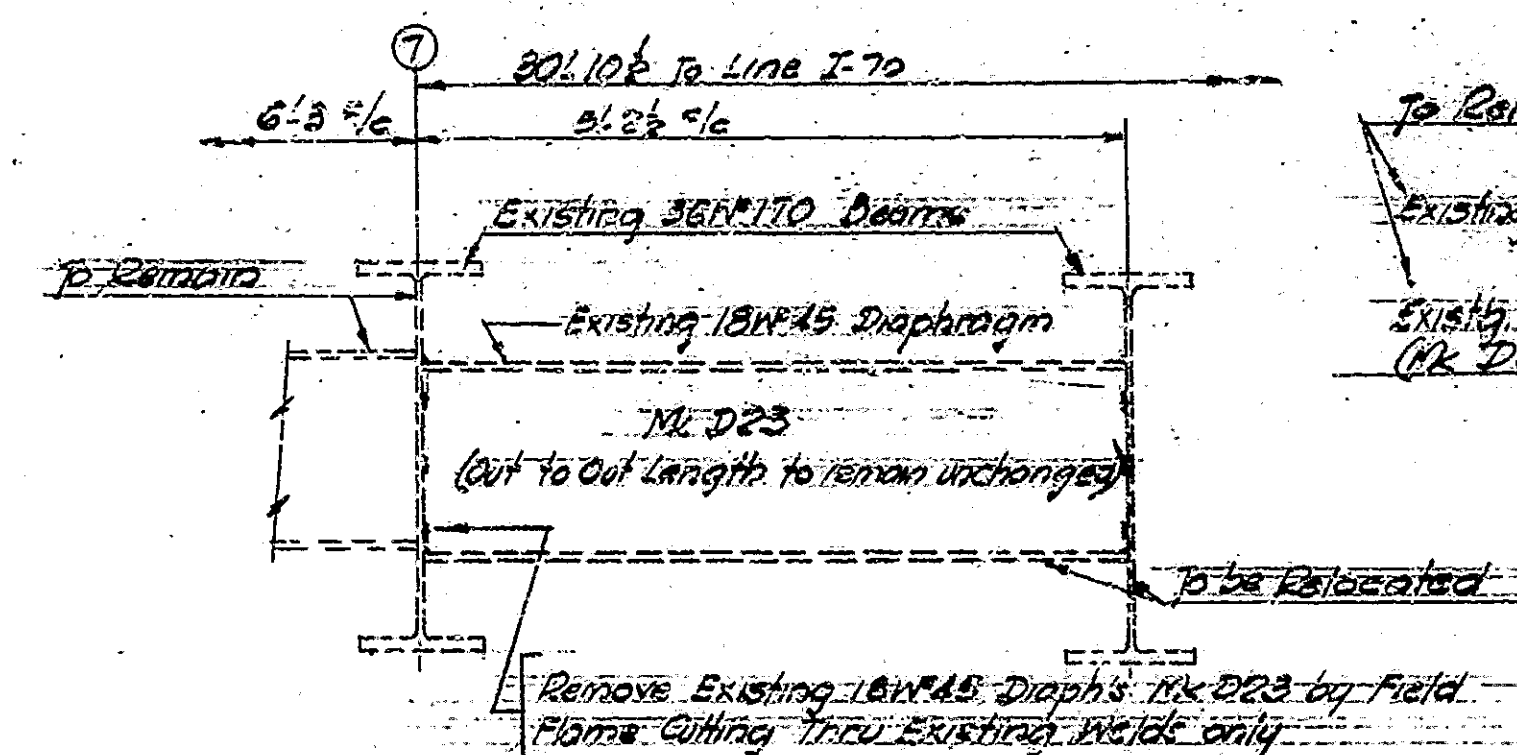
TS1 - TOP SHOE BENT N°3



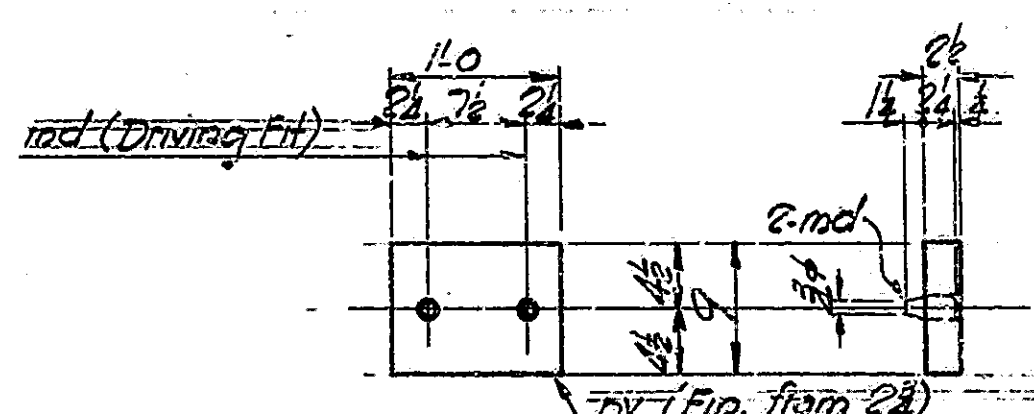
FS1 - FIXED SHOE BENT N°3



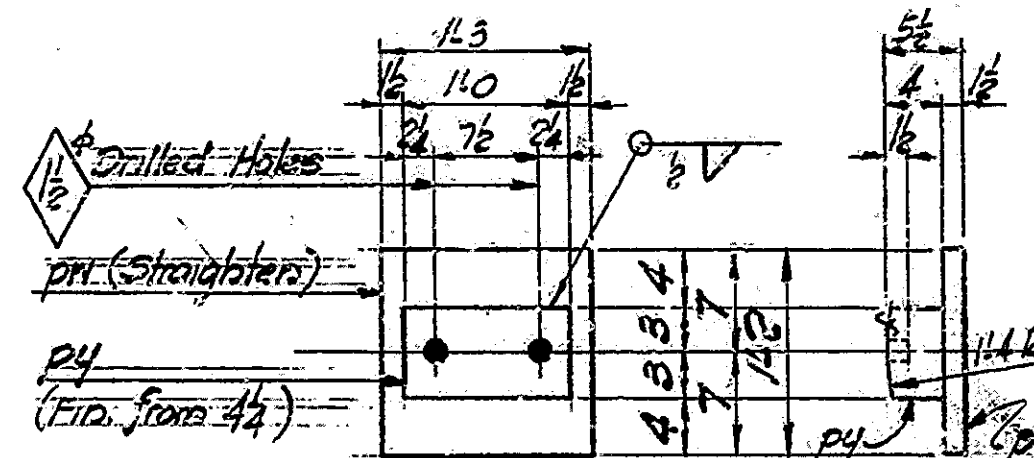
EPI - EXPANSION PLATE BENT N°3



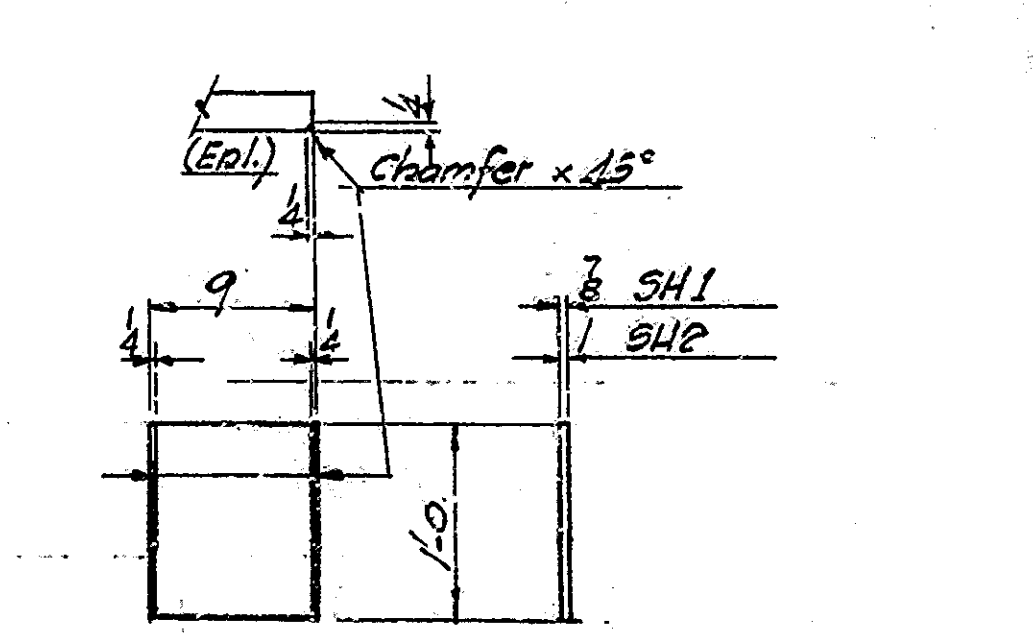
SECTION THRU EXISTG DIAPHRAGMS



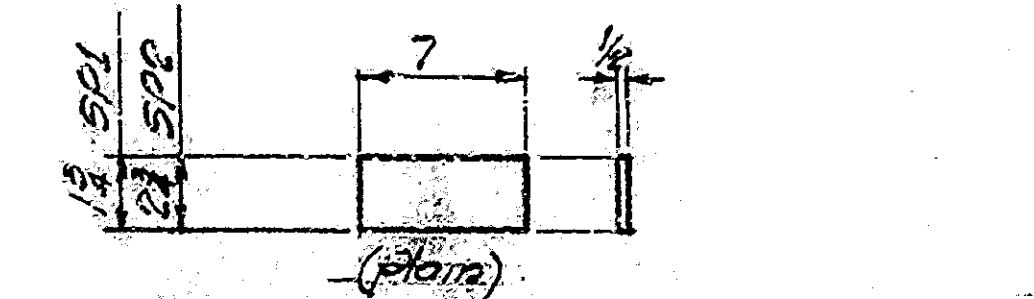
TS2 - TOP SHOE BENT N°3



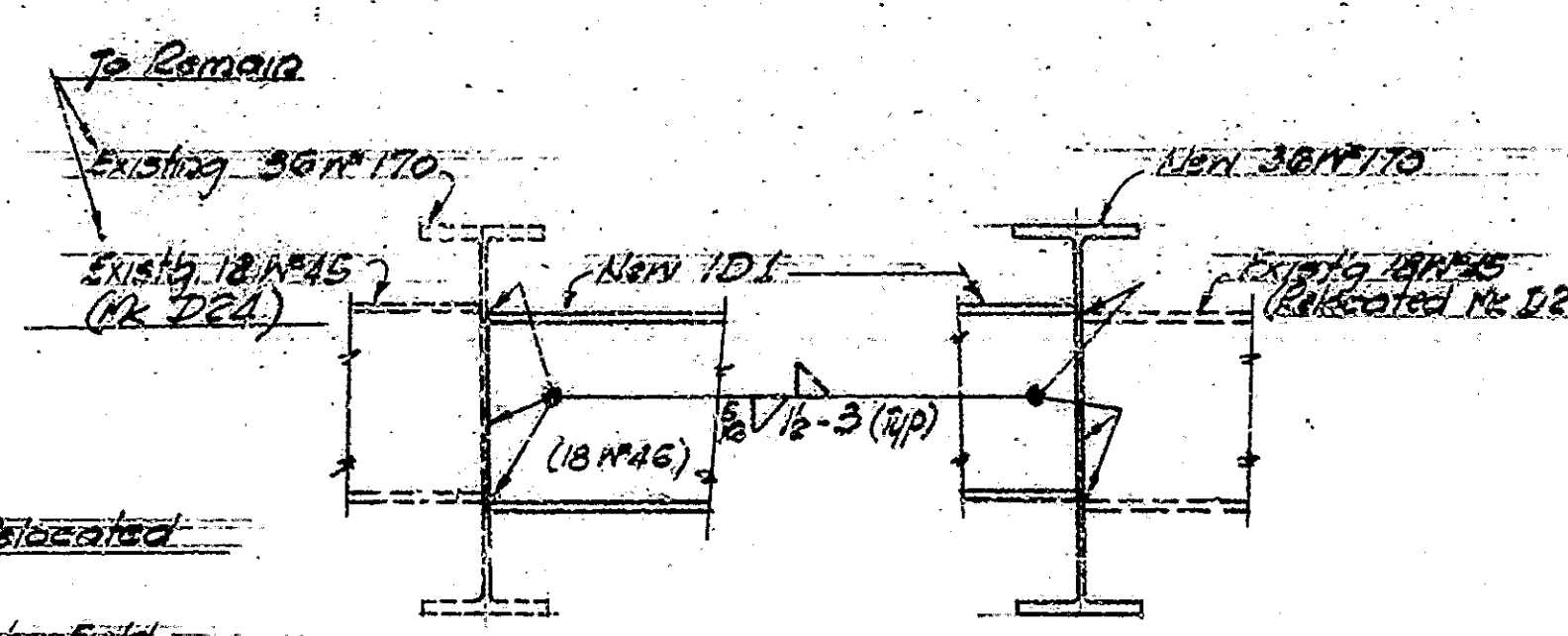
FS2 - FIXED SHOE BENT N°3



SH1 & SH2 - SHIMS



SP1 & SP2 - SIDE PLATES



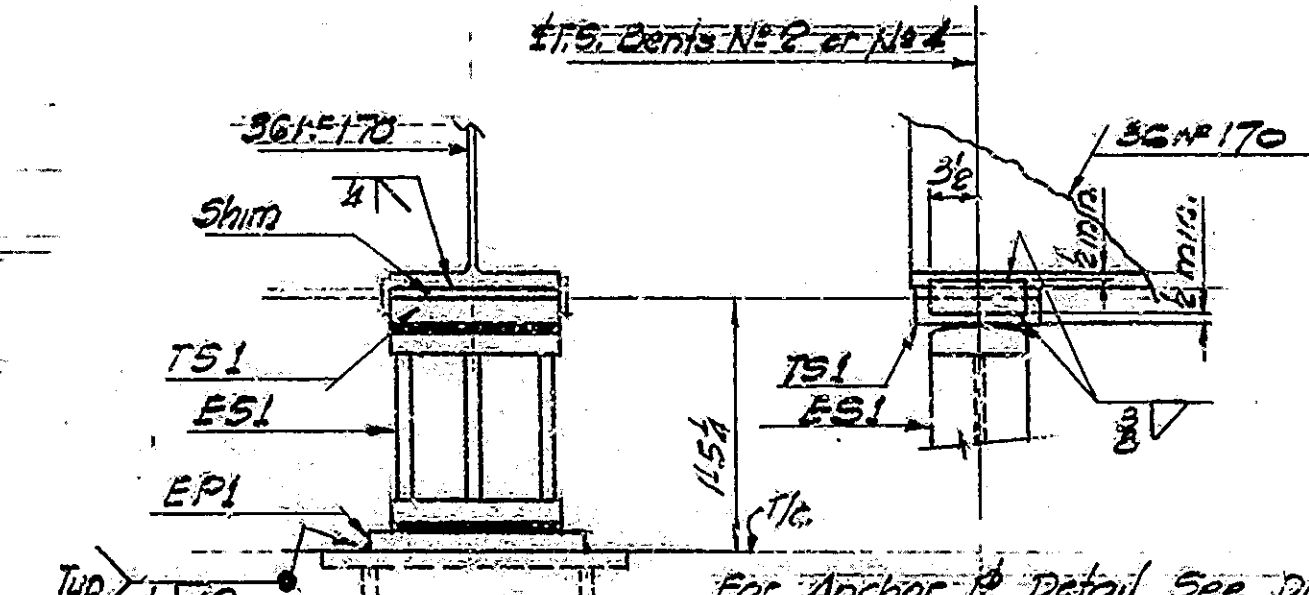
SECTION A-A

SECTION B-B

DETAIL C

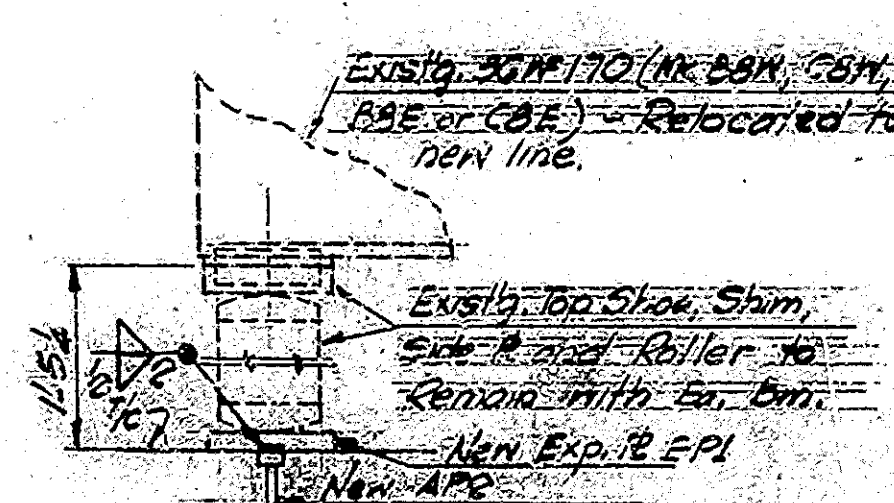
(Showing field welding of New Matl. to Existing Matl.)

(Typ. End Diaphragm Detail)

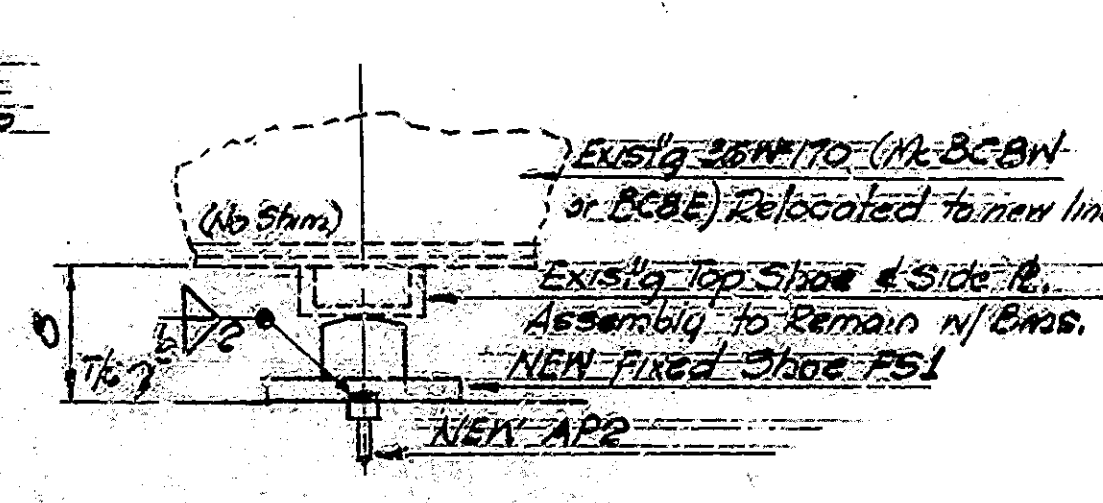


SHOE ASSEMBLY - BENTS N°2 or N°4 (EXPANSION)

(Showing all New Matl. Reg'd on Beam Lines N°2, N°4, E°2, E°4 (See S-15))



SHOE ASSEMBLY - EXP. (BENTS N°2 or N°4)



SHOE ASSEMBLY - FIXED (BENT N°3)

(BEAM LINES N°2 & E°2 ONLY (See S-15))

REQUIRED LIST		
NO.	DESCRIPTION	MARK
1	Top Shoes	TS1
2	Top Shoes	TS2
3	Expansion Shoes	ES1
4	Expansion Plates	EP1
5	Fixed Shoes	FS1
6	Shims	SH1
7	Shims	SH2
8	Side Plates	SP1
9	Side Plates	SP2

Notes

Bolts - 3/4"
Welds - 1/2"
For General Notes See Drawg. S-15
Top Shoes, Shims and Side Plates shall be SHOE ASSEMBLED to respective beams (See Spec. Assembly Details of all new matl. above and Exam. Details Drawg. S-16). For Beam Shoe Assembly Details See Drawg. S-16.
Curved surfaces of shoes to be machined after all fieldwork is completed.
For Shop Bill of Material See Drawg. S-17.

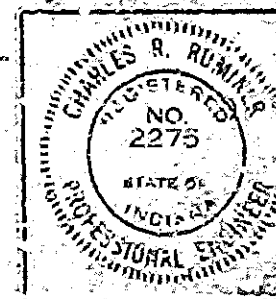
STEEL DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE - 1/4"

JUNE 15, 1965

RECOMMENDED FOR APPROVAL:

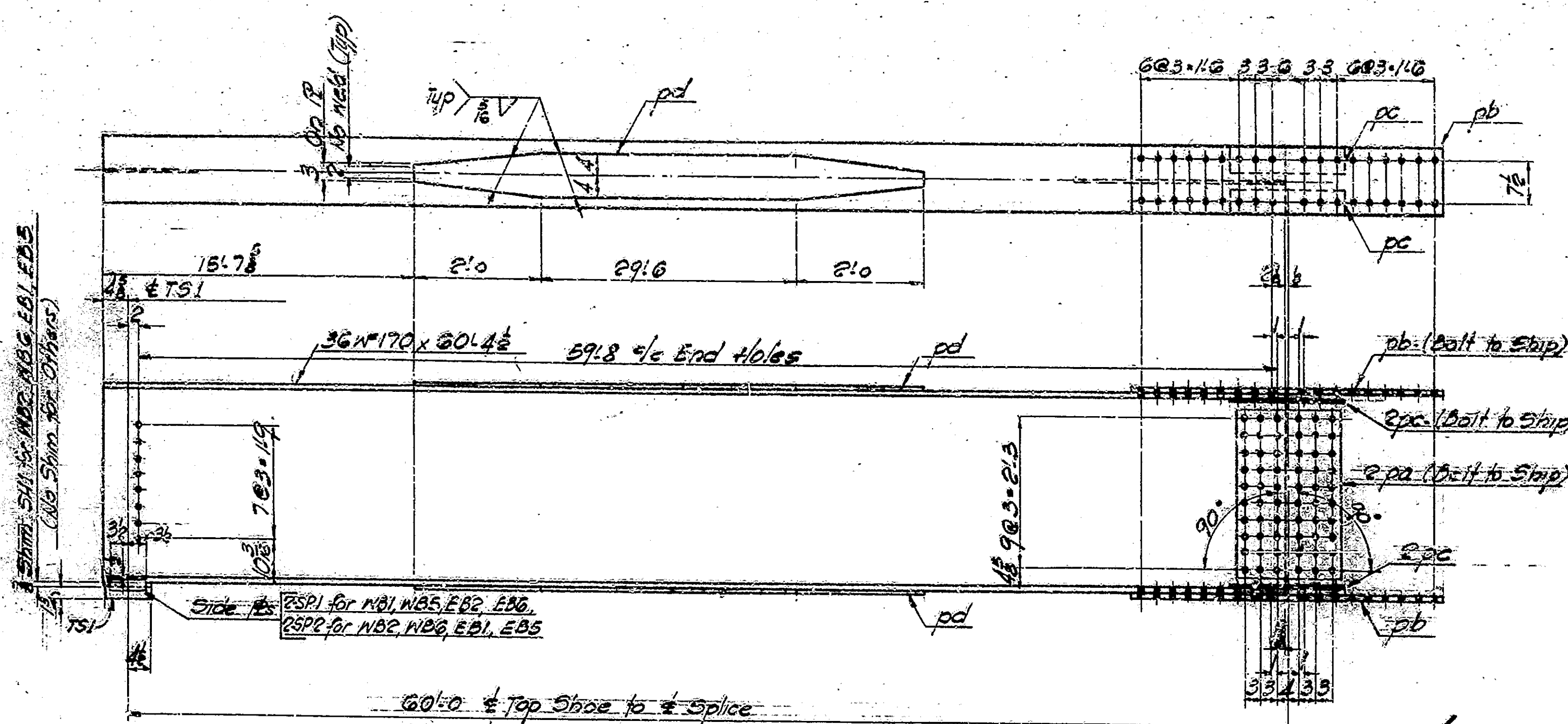
C. R. RUMBERG



DRAWING S-15 OF 19
PROJECT - 1-165-110155
BRIDGE CONTRACT NO. B-6922
BRIDGE FILE - 1-70-73-4647A

DESIGNED BY CWD
DRAWN BY CWD
CHECKED BY CWD
TRACED BY CWD

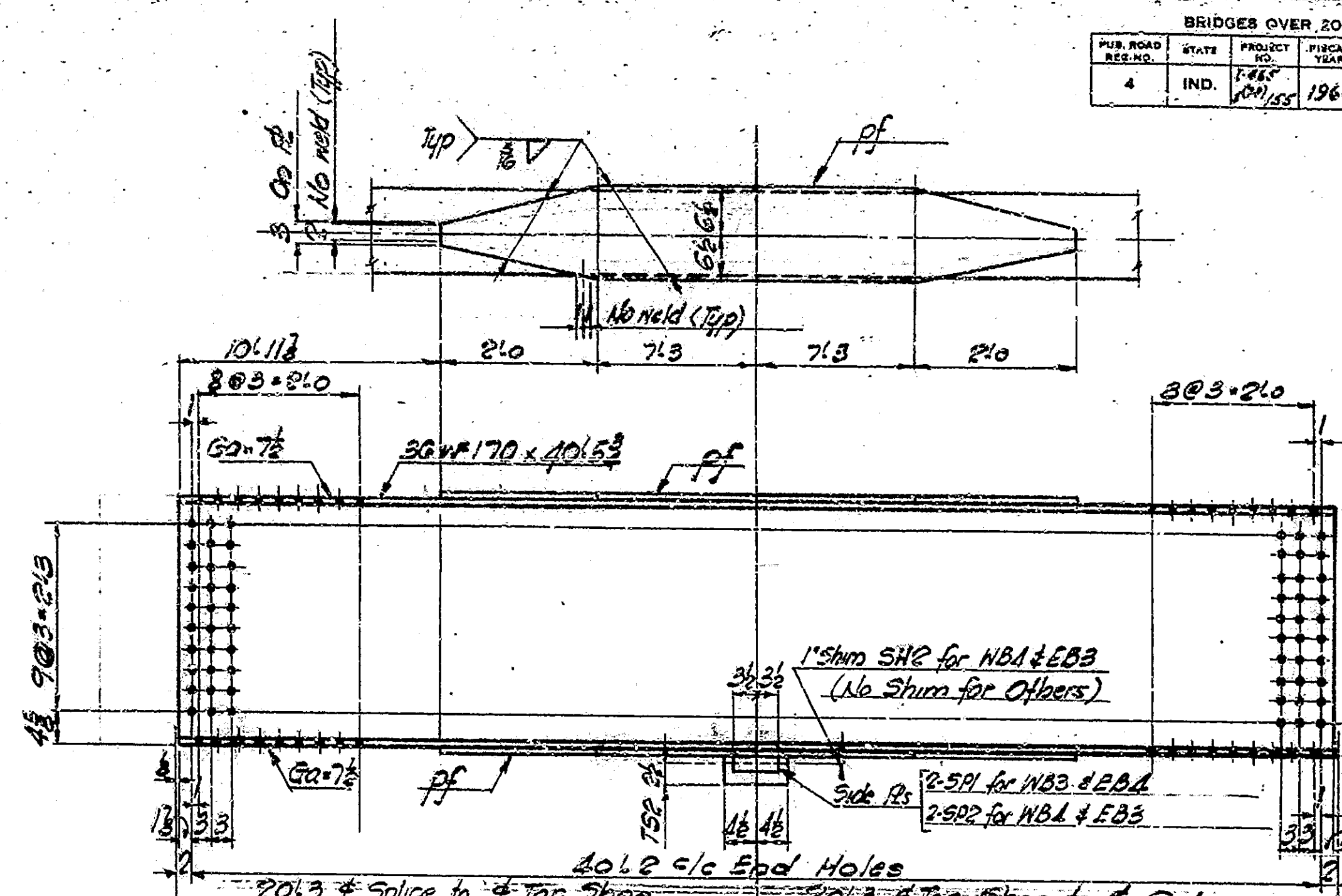
BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	SHEETS
4	IND.	1-165-1	1965	21	30



NB1, NB2, NB5, NB6 - EB1, EB2, EB5, EB6

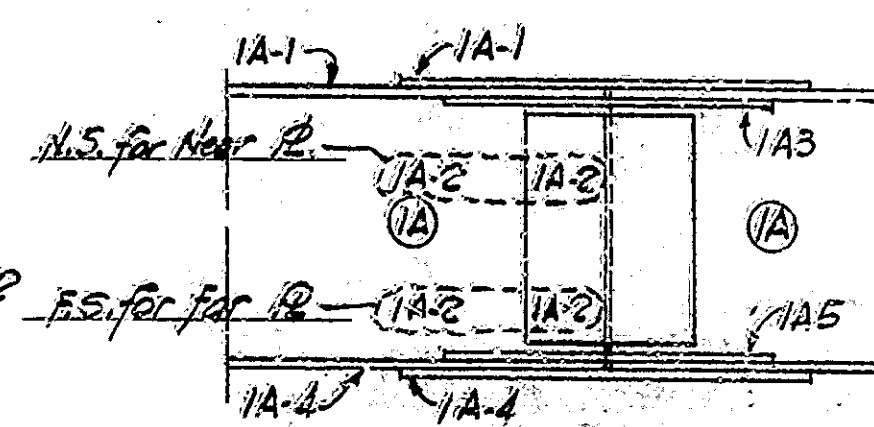
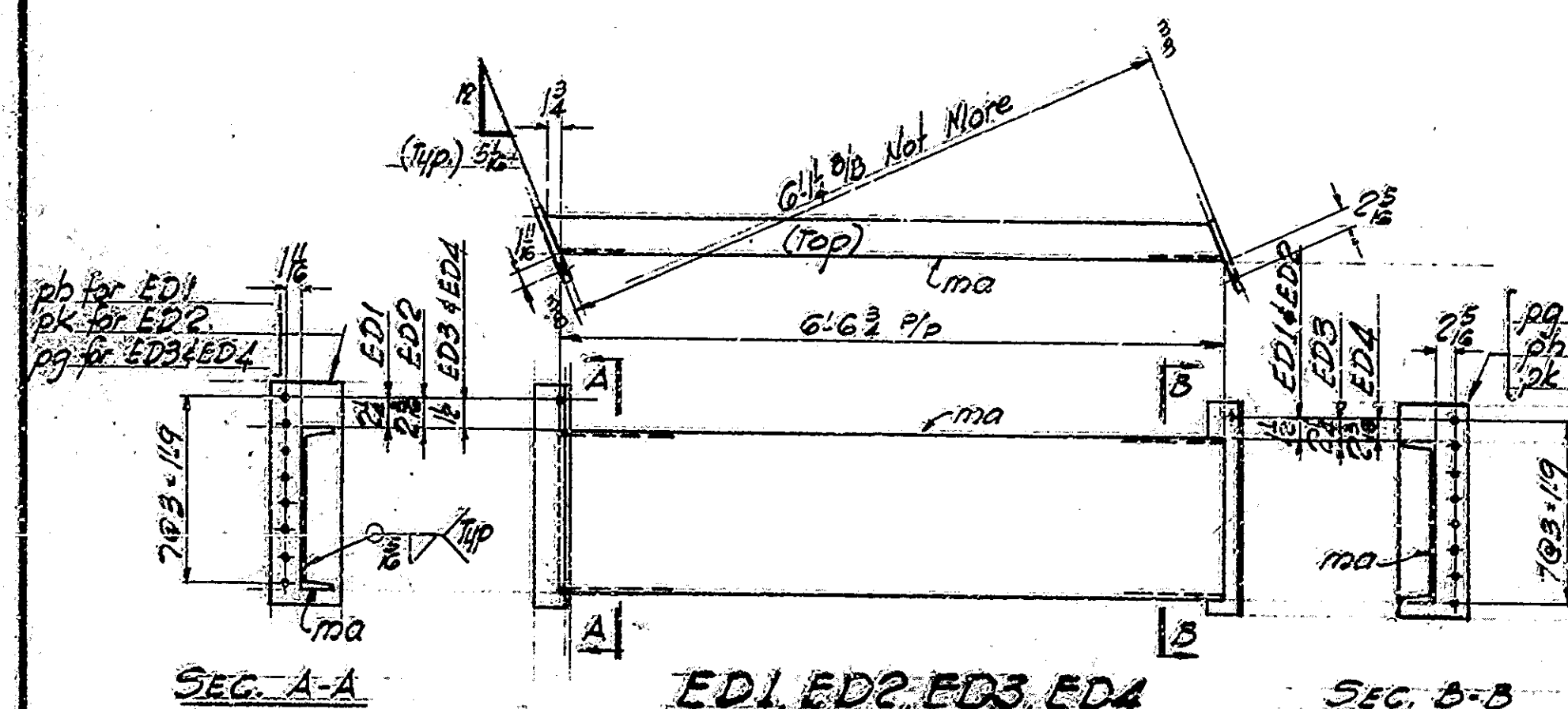
(Alike Except for Shims and Side Pls.)

See Drawg. S-15 for Shop Assembly of Shim, Top Shoe and Side Plates to Bents.



NB3, NB4 - EB3, EB4

(Alike Except for Shims and Side Pls.)

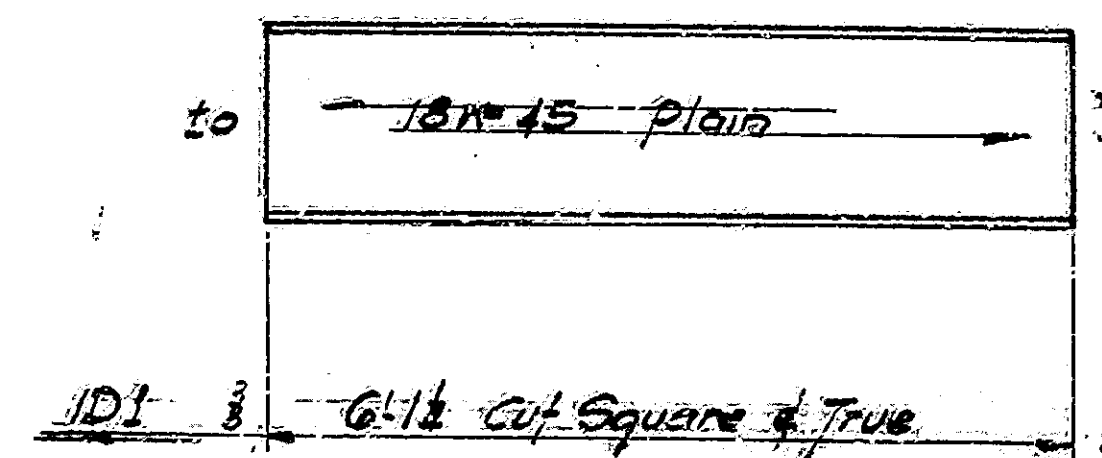


PROPOSED
SKETCH FOR MATCH MARKING
(NTS)

Intersection of Beam Line number and splice line letter form splice identification mark. This mark will appear on the ends of all beams, thus - 1A. All splice material will have the splice mark plus a different suffix numeral for each individual piece of splice material, thus - (1A-1), (1A-2) etc.

Corresponding marks will also be affixed on beam for proper placing of splice material, the match mark must be kept towards the outside and in a position closely related with its corresponding matchmark on the beam.

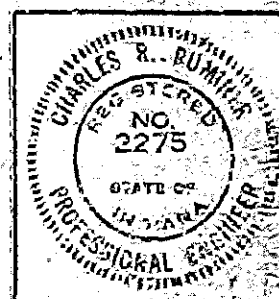
REQUIRED LIST		
No. Req'd	Description	Mark
One	Beam	NB1
One	Beam	NB2
One	Beam	NB3
One	Beam	NB4
One	Beam	NB5
One	Beam	NB6
One	Beam	EB1
One	Beam	EB2
One	Beam	EB3
One	Beam	EB4
One	Beam	EB5
One	Beam	EB6
2	End Diaphragms	ED1
2	End Diaphragms	ED2
2	End Diaphragms	ED3
2	End Diaphragms	ED4
25	Interior Diaphragms	ID1



Notes -
Dolts - 1st
Open Holes 1/8"
For General Notes see Drawg. S-14
For Shop No. Load Camber and Beaming Drawg. See Drawg. S-14
For Shop Bill of Material See Drawg. S-17
For Details of Shims, Top Shoes and Side Plates See Drawg. S-15

STEEL DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE - 1/4" = 1'-0"
RECOMMENDED FOR APPROVAL: *C. R. Remmel*
JUNE 15, 1965
DRAWING: 516 OF 15
PROJECT: 1-165-1 (P) 155
BRIDGE CONTRACT NO. B-6722
BRIDGE FILE: *[Signature]*



DESIGNED: CKD
DRAWN: 2/1/65 CKD
TRACED: CKD

BRIDGES OVER 20' SPAN					
PUB. ROAD REQ. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-465-4(10) 155	1965	22	30

BILL OF MATERIAL

LINE NO.	SHAPE	LENGTH FT.	WEIGHT LBS.	REMARKS	HEIGHT FT.	LINE NO.	SHAPE	LENGTH FT.	WEIGHT LBS.	REMARKS	HEIGHT FT.	LINE NO.	SHAPE	LENGTH FT.	WEIGHT LBS.	REMARKS	HEIGHT FT.
1	ONE BEAM - NB1					32	ONE BEAM - NB2					33	2 DIAPHRAGMS - ID1				
2	36" x 170	60.42	10,264		10.264	34	ONE BEAM - EBB					34	2 DIAPHRAGMS - ID1				
3	2	30 3/4	17	PC	202	35	36" x 170	60.42	10,264		10.264	35	2 DIAPHRAGMS - ID1				
4	2	12 3/4	49	PC	291	36						36	2 DIAPHRAGMS - ID1				
5	4	16 3/4	19	PC	40	37						37	2 DIAPHRAGMS - ID1				
6	2	8 3/4	33	PC	1025	38						38	2 DIAPHRAGMS - ID1				
7	1	2 1/4	10	PC	54	39						39	2 DIAPHRAGMS - ID1				
8	2	14 3/4	0	PC	291	40						40	2 DIAPHRAGMS - ID1				
9	2	14 3/4	0	PC	291	41						41	2 DIAPHRAGMS - ID1				
10	2	14 3/4	0	PC	291	42						42	2 DIAPHRAGMS - ID1				
11	ONE BEAM - NB3					43	ONE BEAM - EBB					43	ONE BEAM - EBB				
12	36" x 170	60.42	10,264		10.264	44	36" x 170	60.42	10,264		10.264	44	36" x 170	60.42	10,264		
13	2			PC	202	45	36" x 170	60.42	10,264		10.264	45	36" x 170	60.42	10,264		
14	2			PC	291	46						46					
15	4			PC	40	47						47					
16	2			PC	1025	48						48					
17	1			PC	54	49						49					
18	2			PC	291	50						50					
19	2			PC	1025	51						51					
20	1	9 1/4	10	SH1	27	52						52					
21	ONE BEAM - NB3					53	ONE BEAM - EBB					53	ONE BEAM - EBB				
22	36" x 170	40.53	6881		6.881	54	36" x 170	40.53	6881		6.881	54	36" x 170	40.53	6881		
23	2	13 1/4	18	PC	1328	55	36" x 170	40.53	6881		6.881	55	36" x 170	40.53	6881		
24	2	9 1/4	10	PC	83	56						56					
25	2	9 1/4	10	PC	83	57						57					
26	2	9 1/4	10	PC	83	58						58					
27	2			PC	291	59						59					
28	2			PC	1025	60						60					
29	ONE BEAM - NB4					61	ONE BEAM - EBB					61	ONE BEAM - EBB				
30	36" x 170	40.53	6881		6.881	62	36" x 170	40.53	6881		6.881	62	36" x 170	40.53	6881		
31	2			PC	202	63	36" x 170	40.53	6881		6.881	63	36" x 170	40.53	6881		
32	1			PC	54	64						64					
33	2			PC	291	65						65					
34	2			PC	1025	66						66					
35	1	9 1/4	10	SH2	27	67	ONE BEAM - EBB					67	ONE BEAM - EBB				
36	ONE BEAM - NB5					68	36" x 170	40.53	6881		6.881	68	36" x 170	40.53	6881		
37	36" x 170	40.53	6881		6.881	69	36" x 170	40.53	6881		6.881	69	36" x 170	40.53	6881		
38	2			PC	202	70						70					
39	2			PC	291	71						71					
40	2			PC	1025	72						72					
41	4			PC	40	73						73					
42	2			PC	291	74						74					
43	1			PC	54	75						75					
44	2			PC	291	76						76					
45	2			PC	1025	77						77					

TOTAL STEEL - 142,702

MISCELLANEOUS
2* Rivets Removed in Field
58 Sq. in. of Field Flame Cutting *

* This is paid for as part of Item 80 - Removal of Present Structure (Portions). See Summary Sheet

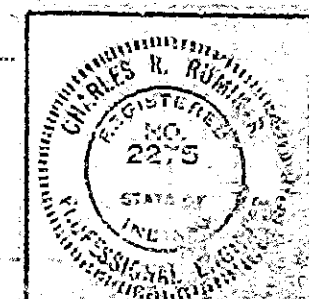
Notes -
For General Notes See Drawing S 14

BILL OF MATERIAL SPANS B & C INDIANA STATE HIGHWAY COMMISSION

SCALE - 1/4" = 1'-0"
JUNE 15, 1965

RECOMMENDED FOR APPROVAL: *C.R. Rummel*
CHIEF ENGINEER

DRAWING: S 17 OF 19
PROJECT: 1-465-4(10) 155
BRIDGE CONTRACT NO. B-6922
BRIDGE FILE: I-70-73-1647A



DESIGNED: CKD
DRAWN: *8/1/65* CKD
TRACED: CKD

STRUCTURE QUANTITIES

ITEM	CLASS	CONCRETE				REINFORCING STEEL												TOTALS	STRUCTURAL STEEL	BRIDGE PLATING	ANCHOR PLATES	ANCHOR BOLTS	CAST IRON	ALUMINUM RAILING	UNTREATED TIMBER	TREATED TIMBER	STEEL BEARING	STEEL RAILING	ALUMINUM RAILING
		CLASS E	CLASS F	CLASS G	CLASS H	#11	#10	#9	#8	#7	#6	#5	#4	#3	#2	#1													
WESTBOUND LANE																													
SUBSTRUCTURE																													
PENT. NO. 1																													
PENT. NO. 2																													
PENT. NO. 3																													
PENT. NO. 4																													
PENT. NO. 5																													
SUPERSTRUCTURE																													
SPAN 1																													
SPAN 2																													
SPAN 3																													
SPAN 4																													
SPAN 5																													
SUBTOTAL																													
EASTBOUND LANE																													
SUBSTRUCTURE																													
PENT. NO. 1																													
PENT. NO. 2																													
PENT. NO. 3																													
PENT. NO. 4																													
PENT. NO. 5																													
SUPERSTRUCTURE																													
SPAN 1																													
SPAN 2																													
SPAN 3																													
SPAN 4																													
SPAN 5																													
SUBTOTAL																													
SPICE BARS																													
REINFORCING STEEL																													
TOTALS																													

APPROACH STRUCTURES

STRUCT. NO.	LOCATION	DESCRIPTION	SIZE	KIND	LENGTH	INSTR.	REIN.	CAST	MARKS
					IN FT.	CUR. YDS.	REIN. STEEL	IRON	
							LBS.	LBS.	
TOTALS									

BARRICADES, BARRIERS, TRAFFIC SIGNS AND LIGHTS

ITEM	UNIT	QUANTITY	ASSEMBLY	BRIDGE FILE	TOTALS
TYPICAL SIGN STANDARDS	Each		Signs W-1 Signs W-2 Signs W-3 Signs W-4 Signs W-5 Signs W-6 Signs W-7 Signs W-8 Signs W-9 Signs W-10 Signs W-11 Signs W-12 Signs W-13 Signs W-14 Signs W-15 Signs W-16 Signs W-17 Signs W-18 Signs W-19 Signs W-20 Signs W-21 Signs W-22 Signs W-23 Signs W-24 Signs W-25 Signs W-26 Signs W-27 Signs W-28 Signs W-29 Signs W-30 Signs W-31 Signs W-32 Signs W-33 Signs W-34 Signs W-35 Signs W-36 Signs W-37 Signs W-38 Signs W-39 Signs W-40 Signs W-41 Signs W-42 Signs W-43 Signs W-44 Signs W-45 Signs W-46 Signs W-47 Signs W-48 Signs W-49 Signs W-50 Signs W-51 Signs W-52 Signs W-53 Signs W-54 Signs W-55 Signs W-56 Signs W-57 Signs W-58 Signs W-59 Signs W-60 Signs W-61 Signs W-62 Signs W-63 Signs W-64 Signs W-65 Signs W-66 Signs W-67 Signs W-68 Signs W-69 Signs W-70 Signs W-71 Signs W-72 Signs W-73 Signs W-74 Signs W-75 Signs W-76 Signs W-77 Signs W-78 Signs W-79 Signs W-80 Signs W-81 Signs W-82 Signs W-83 Signs W-84 Signs W-85 Signs W-86 Signs W-87 Signs W-88 Signs W-89 Signs W-90 Signs W-91 Signs W-92 Signs W-93 Signs W-94 Signs W-95 Signs W-96 Signs W-97 Signs W-98 Signs W-99 Signs W-100		
STANDARD BARRICADES (TYPE A)	Each		Barricades (Type A)		
STANDARD BARRICADES (TYPE B)	Each		Barricades (Type B)		
STANDARD SIGNS	Each		Signs W-1 Signs W-2 Signs W-3 Signs W-4 Signs W-5 Signs W-6 Signs W-7 Signs W-8 Signs W-9 Signs W-10 Signs W-11 Signs W-12 Signs W-13 Signs W-14 Signs W-15 Signs W-16 Signs W-17 Signs W-18 Signs W-19 Signs W-20 Signs W-21 Signs W-22 Signs W-23 Signs W-24 Signs W-25 Signs W-26 Signs W-27 Signs W-28 Signs W-29 Signs W-30 Signs W-31 Signs W-32 Signs W-33 Signs W-34 Signs W-35 Signs W-36 Signs W-37 Signs W-38 Signs W-39 Signs W-40 Signs W-41 Signs W-42 Signs W-43 Signs W-44 Signs W-45 Signs W-46 Signs W-47 Signs W-48 Signs W-49 Signs W-50 Signs W-51 Signs W-52 Signs W-53 Signs W-54 Signs W-55 Signs W-56 Signs W-57 Signs W-58 Signs W-59 Signs W-60 Signs W-61 Signs W-62 Signs W-63 Signs W-64 Signs W-65 Signs W-66 Signs W-67 Signs W-68 Signs W-69 Signs W-70 Signs W-71 Signs W-72 Signs W-73 Signs W-74 Signs W-75 Signs W-76 Signs W-77 Signs W-78 Signs W-79 Signs W-80 Signs W-81 Signs W-82 Signs W-83 Signs W-84 Signs W-85 Signs W-86 Signs W-87 Signs W-88 Signs W-89 Signs W-90 Signs W-91 Signs W-92 Signs W-93 Signs W-94 Signs W-95 Signs W-96 Signs W-97 Signs W-98 Signs W-99 Signs W-100		
SUITABLE BARRIERS	Each		Suitable Barriers		
CONSTRUCTION IDENTIFICATION SIGNS	Each		Construction Identification Signs		

SUMMARY

DESCRIPTION	UNIT	QUANTITY	BRIDGE FILE	TOTALS
Class E Concrete	Cu Yds	387.2		
Class F Concrete	Cu Yds	7.1		
Class G Concrete above Footings	Cu Yds	24.6		
Class H Concrete in Footings	Cu Yds	22.6		
Reinforcing Steel	Lbs	17,274		
Structural Steel	Lbs	2,244		
Anchor Plates (Mk-AP2)	Each	10		
Cast Iron	Lbs	10		
Aluminum Railing (Type)	Lbs	10		
Untreated Timber Piles Furnished	Lbs	10		
Untreated Timber Piles Driven	Lbs	10		
Steel Pile Shells Furnished (14")	Lbs	10		
Steel Pile Shells Driven (14")	Lbs	10		
Furnishing Equipment for Driving Piles	Lbs	10		
Well Excavation	Cu Yds	10		
Waterway Excavation	Cu Yds	10		
Common Excavation	Cu Yds	10		
Special Borrow	Cu Yds	10		
Grade B Special Borrow	Cu Yds	10		
Sodding	Sq Yds	10		
Mulched Seeding	Sq Yds	10		
Plain Cement Concrete Pavement (1")	Sq Yds	10		
Reinforced Cement Concrete Pavement (1")	Sq Yds	10		
Aggregate for Compacted Aggregate Base	Tons	10		
Compacted Aggregate Shoulder	Tons	10		
Subbase	Cu Yds	10		
Removal Present Structure (Portions)	Lbs	10		
Temporary Bridge and Approaches	Lbs	10		
Typical Sign Standards	Each	10		
Standard Barricades (Type A)	Each	10		
Standard Barricades (Type B)	Each	10		
Standard Signs	Each	10		
R/W Markers	Each	10		
Slope Wall	Sq Yds	10		
Expansion Joint	Lbs	10		
Straight Beam Guard Rail	Lbs	10		
Class D Concrete in Structures	Cu Yds	10		
Foundation Excavation (Incl.)	Cu Yds	10		
Comp. Slope Wall	Sq Yds	10		
Resetting Aluminum Railing	Lbs	10		
Rivets Removed	Each	10		

INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL: [Signature]

PROJECT: 1485-4(13)155

BRIDGE CONTRACT NO. 6-6622

BRIDGE FILE: 170-73-4647A

DATE: JUNE 15, 1965

END STR