

CONTRACT NO. B-8577

SPILLOES OVER 20' SPAN				
YEAR	STATE	NO.	YEAR	NO.
4	IND.	1-65-3	1971	1
		(REV)		25

INDEX				
PROJECT	STRUCTURE	TYPE	SPAN	STATION
I-65-3 (B) (N)	I-65-1H-5720	STEEL GIRDERS	1 AT 108'-0" OVER VIRGINIA AVE. OVER I-65 (S.B.) & RAMP 7N-W	STA. 375 + 96.85 (I-65 (S.B.)) STA. 16 + 83.83 (I-65 (S.B.))

SHEET NO.	SHEET DESIGNATION	SUBJECT	ALL APPROVALS
1	ONE SHEET	INDEX & TITLE	
2	ONE SHEET	TEST BORINGS	
3	S1	LAYOUT	
4	S2	GENERAL PLAN	
5	S3	ABUTMENT 1 DETAILS	
6	S4	ABUTMENT 1 DETAILS	
7	S5	ABUTMENT 2 DETAILS	
8	S6	ABUTMENT 2 DETAILS	
9	S7	FRAMING PLAN	
10	S8	STEEL DETAILS	
11	S9	STEEL DETAILS	
12	S10	TOOTHED EXPANSION JOINT	
13	S11	TOOTHED EXPANSION JOINT	
14	S12	FLOOR DETAILS	
15	S13	FLOOR DETAILS	
16	S14	FLOOR DETAILS	
17	ONE SHEET	SUMMARY	
18	S15	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS

FOR SPANS OVER 20 FEET

ON

PROJECT NO. I-65-3

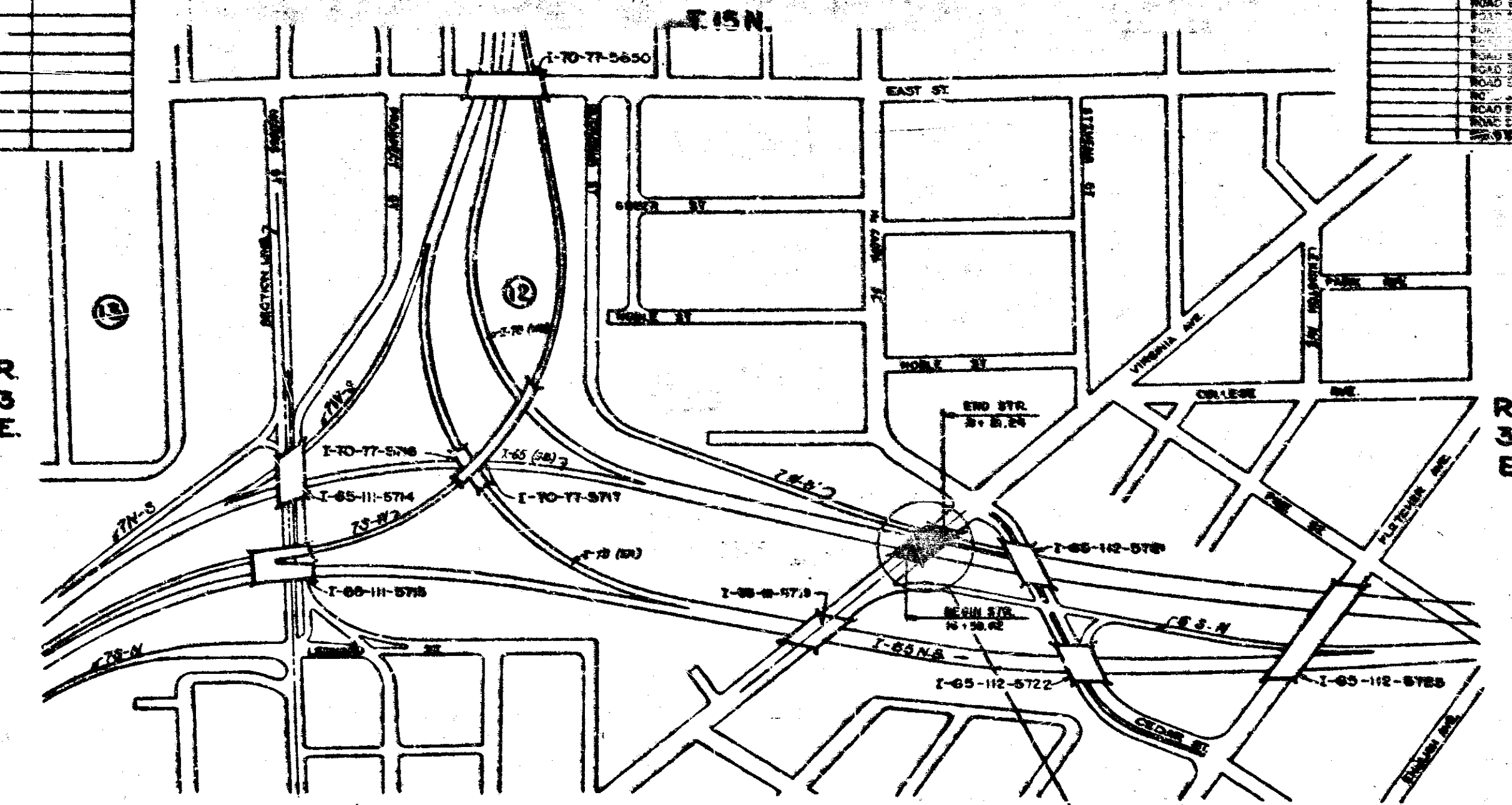
VIRGINIA AVE. OVER I-65 (N.B.)

(59) III PE, PHASE I
(78) III PE, FINAL PHASE
(79) III R/W
(86) III CONSTR.

BEGINNING AT A POINT ON E. OF EXISTING VIRGINIA AVE. APPROX. 24.21 FT. SOUTHEAST OF ITS INTERSECTION WITH E. OF PROPOSED I-65 (S.B.) AND EXTENDING IN A NORTHWESTERLY DIRECTION FOR APPROX. 131.62 FT. TO A POINT ON E. OF EXISTING VIRGINIA AVE. APPROX. 137.41 FT. NORTHWEST OF ITS INTERSECTION WITH E. OF PROPOSED I-65 (S.B.), ALL IN SECTION 12, T.15 N., R.3E., CENTER TOWNSHIP, MARION COUNTY.

ROADWAY LENGTH = 0.000 MILES
BRIDGE LENGTH = 0.031 MILES
TOTAL LENGTH = 0.031 MILES
MAX. GRADE = -0.88 %

INDEX CONTINUED			
SHEET NO.	SHEET DESIGNATION	SUBJECT	DATE
18	S15	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
19	S16	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
20	S17	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
21	S18	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
22	S19	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
23	S20	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
24	S21	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
25	S22	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
26	S23	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
27	S24	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
28	S25	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
29	S26	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
30	S27	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
31	S28	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
32	S29	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
33	S30	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
34	S31	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
35	S32	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
36	S33	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
37	S34	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
38	S35	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
39	S36	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
40	S37	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
41	S38	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
42	S39	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
43	S40	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
44	S41	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
45	S42	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
46	S43	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
47	S44	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
48	S45	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
49	S46	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
50	S47	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
51	S48	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
52	S49	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
53	S50	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
54	S51	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
55	S52	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
56	S53	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
57	S54	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
58	S55	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
59	S56	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
60	S57	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
61	S58	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
62	S59	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
63	S60	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
64	S61	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
65	S62	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
66	S63	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
67	S64	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
68	S65	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
69	S66	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
70	S67	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
71	S68	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
72	S69	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
73	S70	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
74	S71	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
75	S72	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
76	S73	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
77	S74	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
78	S75	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
79	S76	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
80	S77	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
81	S78	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
82	S79	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
83	S80	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
84	S81	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
85	S82	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
86	S83	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
87	S84	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
88	S85	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
89	S86	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
90	S87	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
91	S88	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
92	S89	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
93	S90	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
94	S91	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
95	S92	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
96	S93	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
97	S94	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
98	S95	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
99	S96	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
100	S97	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
101	S98	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
102	S99	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	
103	S100	DETAILS - C.T.P.C. OVERLAY AND EXP. JOINT - TYPE B5	



TRAFFIC DATA - Virginia Ave. I-65			
A.B.T. (1972)	17,453	V.P.D. 1972	37,910
A.D.T. (1982 PROJECTED)	20,800	P.D. 1992	70,000
TRUCKS	A.D.T. - 14%	D.H.V. - 7%	14% - 7%
DESIGN SPEED		30 M.P.H.	50 M.P.H.
ACCESS CONTROL	NONE		FULL

THESE PLANS PREPARED BY
CHAS. W. COLE & SON
ENGINEERS
SOUTH BEND INDIANA

APPROVED: *[Signature]*
DATE: *[Date]*

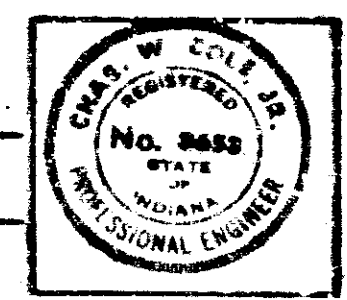
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED:	DATE:
DIVISION ENGINEER	

BRIDGE FILE: I-65-1H-5720

PRELIMINARY PLANS (PHASE I) PREPARED BY KAREN ATLAS OF H.W. LOCKNER, INC.

FINAL PLANS SUBMITTED FOR APPROVAL: JUNE 16, 1971

REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA



LOCATION OF BRIDGE
I-65-111-5720

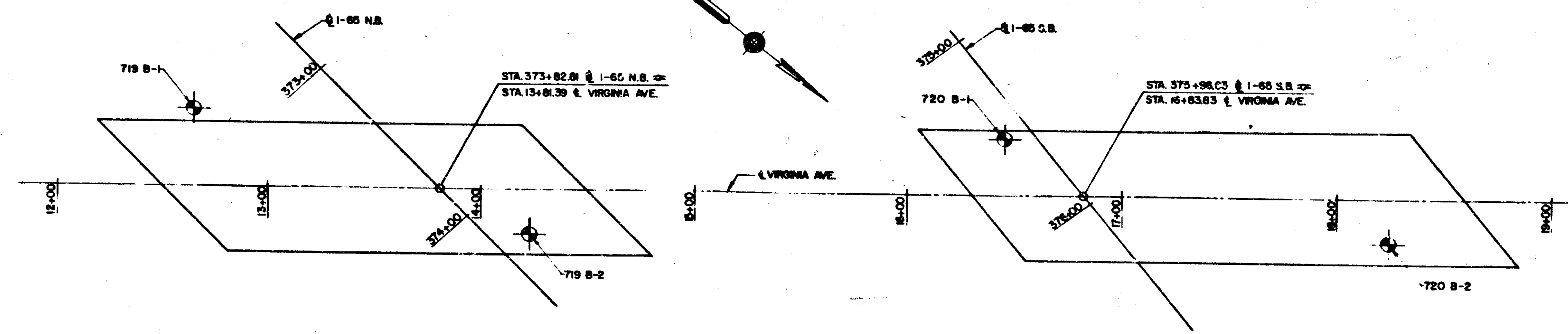
REVISIONS	
DATE	SHEET NO.
12-22-71	1, 2, 3, 4, 7, 8, 9, 10, 16, 17, 18
1-29-72	14, 15, 16, 17, 18, 19, 20
2-29-72	1, 4, 9, 10, 11, 13, 16, 17, 20
5-2-72	1, 4, 9, 10, 11, 13, 16, 17, 20

RECOMMENDED FOR APPROVAL: *[Signature]*



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

PUBLIC ROAD DISTRICT NO.	STREET	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	IND	1-65-3808(III)	1970	8	28



PLAN
SCALE: 1" = 20'-0"

BORING NO.	719 B-1
STATION	372+83
OFFSET	57 FT.
GROUND EL.	731.4

BORING NO.	719 B-2
STATION	374+27
OFFSET	15 FT.
GROUND EL.	730.2

BORING NO.	720 B-1
STATION	375+52
OFFSET	12 FT.
GROUND EL.	729.5

BORING NO.	720 B-2
STATION	377+00
OFFSET	99 FT.
GROUND EL.	728.4

ELEVATION	SAMPLE NO.		DESCRIPTION
	NO.	N	
730			GROUND LEVEL
729.4	1	8	BROWN MOIST MEDIUM STIFF SANDY CLAY LOAM
729.9	2	14	BROWN MOIST STIFF TO HARD LOAM
722.9	5	59	BROWN MOIST STIFF TO HARD LOAM
713.9	5	71	GRAY MOIST HARD SANDY LOAM
707.9	6	43	GRAY MOIST HARD SANDY LOAM
704.4	7	31	GREENISH GRAY MOIST HARD SANDY CLAY
699.4	8	29	BROWN MOIST MEDIUM DENSE FINE SAND
694.4	9	20	BROWN WET MEDIUM DENSE FINE TO COARSE SAND
689.4	10	25	BROWN MOIST HARD LOAM

ELEVATION	SAMPLE NO.		DESCRIPTION
	NO.	N	
730			GROUND LEVEL
728.4	1	7	BROWN MOIST MEDIUM STIFF SILTY CLAYEY LOAM
728.7	2	7	BROWN MEDIUM STIFF SILTY LOAM
721.7	3	47	BROWN TO GRAY WET MEDIUM STIFF LOAM
716.7	4	34	BROWN MOIST HARD SILTY LOAM
711.7	5	32	GRAY & BROWN MOIST HARD SILTY CLAY LOAM (HARDPAN)
706.7	6	27	GRAY WET MEDIUM DENSE FINE SAND
703.7	7	35	BROWN WET DENSE FINE SAND WITH TRACE OF CLAY
700.7	8	28	BROWN WET DENSE FINE TO COARSE SAND WITH A TRACE OF SILT & SOME GRAVEL
693.7	9	74	GRAY MOIST HARD SANDY LOAM
688.7	10	36	GRAY MOIST HARD SILTY LOAM
683.7	11	58	GRAY MOIST HARD LOAM (HARDPAN)
678.7	12	97	GRAY MOIST HARD LOAM (HARDPAN)
671.7	13	62	GRAY MOIST HARD LOAM (HARDPAN)
666.7	14	29	GRAY MOIST HARD LOAM (HARDPAN)
661.7	15	108	BROWN VERY DENSE FINE SAND

ELEVATION	SAMPLE NO.		DESCRIPTION
	NO.	N	
730			GROUND LEVEL
729.5	1	10	BROWN MOIST MEDIUM STIFF SILTY CLAY LOAM
723.5	2	12	BROWN MOIST MEDIUM STIFF TO STIFF LOAM
721.0	3	9	BROWN WET MEDIUM STIFF TO STIFF SANDY LOAM
716.0	4	35	BROWN & GRAY MOIST HARD LOAM
711.0	5	28	GRAY WET TO MOST VERY STIFF TO MEDIUM STIFF FINE SANDY LOAM
706.0	6	19	GRAYISH GREEN MOIST MEDIUM DENSE FINE SAND
701.0	7	21	BROWN WET MEDIUM DENSE COARSE SANDY LOAM
697.5	8	38	BROWN WET MEDIUM DENSE FINE TO COARSE SAND
692.5	9	33	DARK BROWN MOIST VERY STIFF SILTY CLAY LOAM
688.0	10	39	BROWN MOIST HARD SILTY CLAY
683.0	11	42	DARK BROWN MOIST HARD TO VERY STIFF SILTY CLAY LOAM
679.5			BLUSH GRAY MOIST HARD CLAY

ELEVATION	SAMPLE NO.		DESCRIPTION
	NO.	N	
730			BLACKTOP & GRAVEL
728.4			GROUND LEVEL
728.4	1	14	BLACK MOIST MEDIUM STIFF SILTY LOAM
723.4	2	8	GREENISH GRAY MOIST STIFF TO MEDIUM STIFF LOAM
719.9	3	21	BROWN WET LOOSE FINE TO COARSE SAND
716.4	4	23	BROWN MOIST VERY STIFF SILTY LOAM
711.4	5	18	GRAY & BROWN MOIST VERY VERY STIFF FINE SANDY LOAM
706.4	6	28	GREENISH GRAY MOIST MEDIUM DENSE FINE TO COARSE SANDY LOAM
701.4	7	27	BROWN MOIST MEDIUM DENSE FINE SAND
696.4	8	108	GRAY WET VERY DENSE FINE SAND
691.4	9	74	GRAY MOIST HARD SILTY CLAY LOAM (HARDPAN)
686.4	10	55	BLACK & GREEN MOIST HARD SILTY CLAY
681.4	11	37	DARK BROWN MOIST HARD SILTY CLAY LOAM WITH TRACE OF ORGANIC MATTER
676.4	12	35	GRAY WET VERY DENSE TO DENSE FINE SAND
671.4	13	51	GRAY WET VERY DENSE FINE SAND WITH TRACE OF SILT
666.4	14	44	BROWN WET VERY DENSE TO DENSE FINE SAND WITH TRACE OF SILT

NOTE:
 W.L.C DENOTES GROUND WATER TABLE AT COMPLETION OF DRILLING
 W.L.24 DENOTES GROUND WATER TABLE AFTER 24 HOURS
 N INDICATES THE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 1/8" I.D. 2" O.D. SPLT SPOON SAMPLER 12" BY MEANS OF A 140 POUND WEIGHT FALLING 30"
 SEE ART. 102.05 OF THE SPECS REGARDING TEST BORING DATA.

NOTE: See Article 102.05 of the Specifications regarding test pit data.

TEST BORINGS

INDIANA STATE HIGHWAY COMMISSION

JUNE 15, 1971

SCALE: AS NOTED

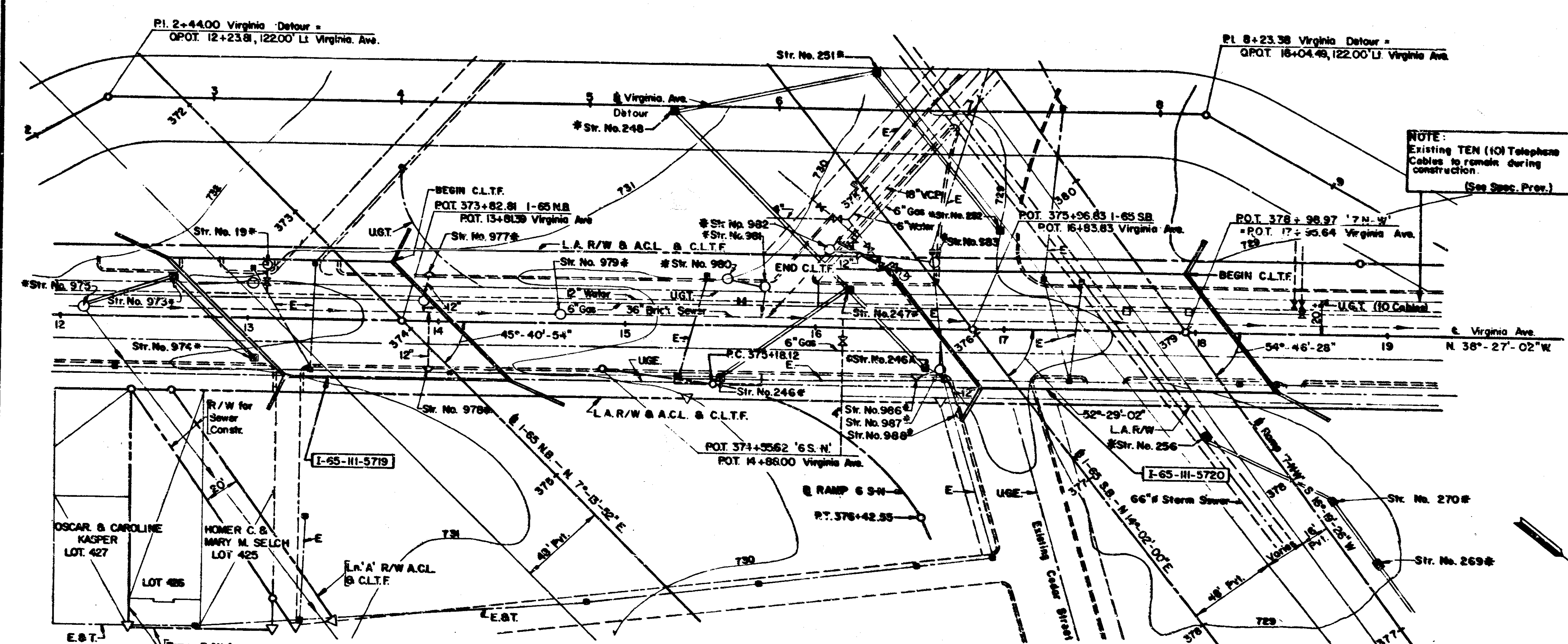
SUBMITTED FOR APPROVAL: *[Signature]*

PROJECT: 1-65-3808(III)
 CONTRACT NO. 8-8577
 BRIDGE FILE: 1-65-111-5720

REV. 1-65-71 E.E. CH. J.W.H.

REV. 1-65-71 Notes.

BRIDGES OVER 20' SPAN					
PROJ. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-65-3	1971	3	23

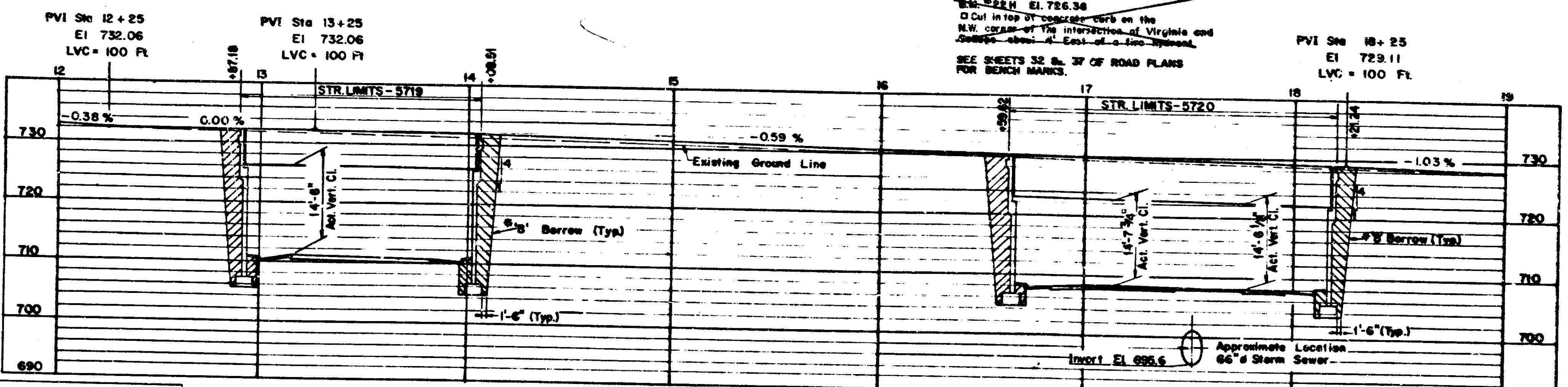


- UTILITY COMPANIES**
- GAS LINE**
Citizens Gas & Coke
2020 N. Meridian St.
Indianapolis, Indiana 46208
- POWER LINES**
Indianapolis Power & Light
25 Monument Circle
Indianapolis, Indiana 46208
- TELEPHONE LINES & CABLES**
Indianapolis Bell Telephone
240 N. Meridian St.
Indianapolis, Indiana 46206
- WATER LINES**
Indianapolis Water Co.
101 S. Meridian St.
Indianapolis, Indiana 46207
- SEWERS**
Indianapolis Sanitary District
2541 City - County Building
Indianapolis, Indiana 46204

NOTE:
Existing TEN (10) Telephone
Cables to remain during
construction.
(See Spec. Prov.)

SITUATION PLAN
SCALE 1" = 30'

BENCH MARKS
B.M. #112 El. 734.86
NW Corner of concrete porch at 248 Virginia
B.M. #22H El. 726.38
Cut in top of concrete curb on the
NW corner of the intersection of Virginia and
Garrett about 4' East of a 100' span.
SEE SHEETS 32 & 37 OF ROAD PLANS
FOR BENCH MARKS.



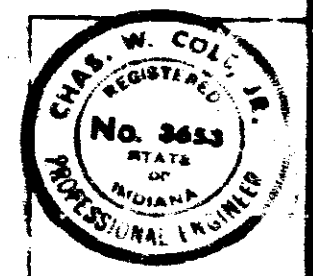
PROFILE

HOR. SCALE 1" = 30' VERT. SCALE 1" = 10'

NOTE:
Sec. art. 102.05 of the Specification regarding test pit depth.
* Indicates items not included in the Bridge Contract.

LAYOUT
STEEL GIRDER BRIDGE
1 SPAN: 155'-0" ; SKEW 37°-30'-58" LT.
50'-0" ROADWAY ; TWO 6'-0" SIDEWALKS
VIRGINIA AVE. OVER I-65(S.B.) & RAMP '7N-W'
INDIANA STATE HIGHWAY COMMISSION
MARION COUNTY

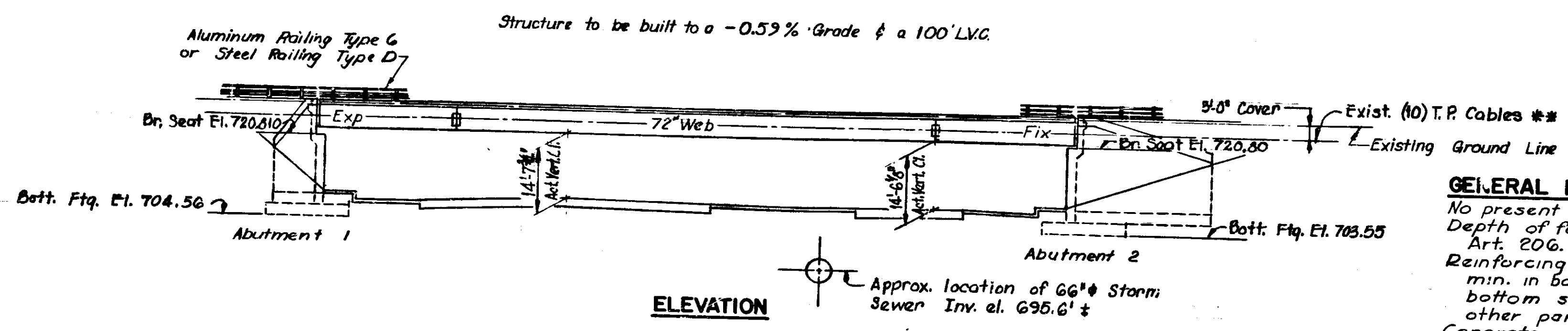
SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *Chawley*
DRAWING: 3-1 OF 14
PROJECT: 1-65-38061111
CONTRACT NO. B-6677
BRIDGE FILE: 1-65-111-5720
JUNE 23, 1971



DESIGNED: CWD
DRAWN: SM
CHECKED: CWD

PROJECT NO.	LINE	SHEET	TOTAL SHEETS
1-65-38061111		3	23

BRIDGES OVER 20' SPAN					
PROJ. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
4	IND.	1971	4	25	



GENERAL NOTES

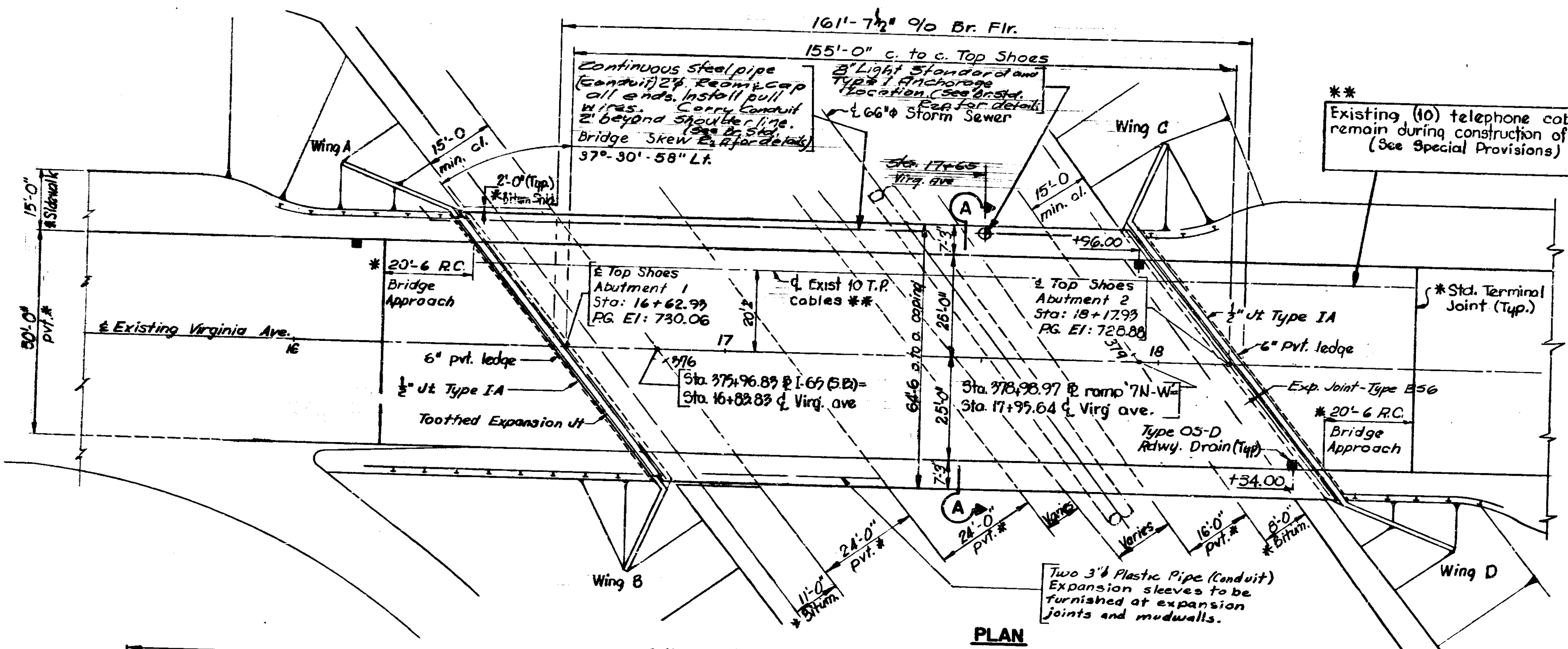
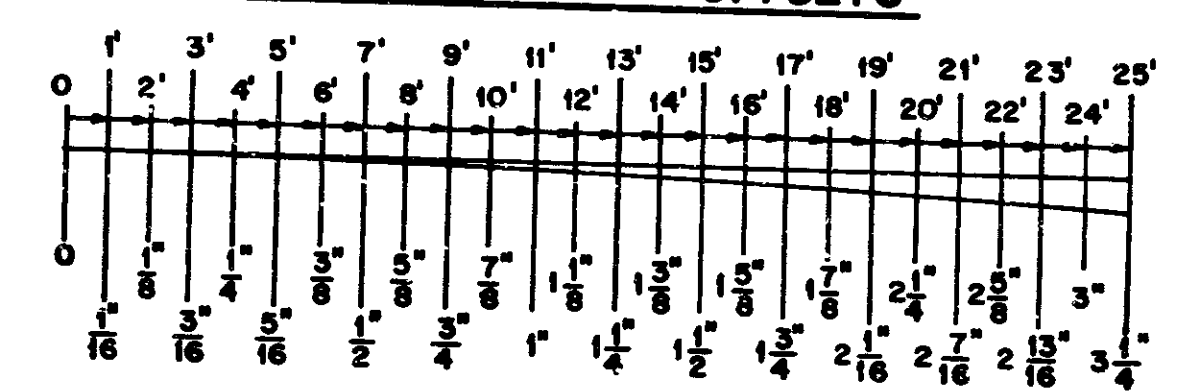
No present structure at proposed bridge site. Depth of footings to be extended if found necessary. See Art. 206.11(c) Specifications. Reinforcing steel covering shall be 2 inches in top and 1 inch min. in bottom of floor slabs, 3 inches in footing except bottom steel which shall be 4 inches, and 2 inches in all other parts unless noted. Concrete in footings, wingwalls, and abutments to be Class 'B'. Concrete in superstructure to be Class 'C'. Continuous concrete pours shall be required between construction joints as shown on detail plans.

Bevel forms 1/4" under copings; and chamfer exposed edges 1 inch unless noted. 2 standard type OS-D roadway drains to be placed as shown on this drawing. Waterproof back of abutments, wingwalls, in accordance with Art. 702.20 of the Specifications. All railing posts to be constructed perpendicular to grade. Only the bridge seats and front face of mudwalls to be sealed in accordance with Art. 702.20 of the specifications. * Indicates items not included in Bridge Summary. For pay items covering this structure see Bridge Summary. See special provisions for items included in this contract. For future light post installation see C.C. Sta. R.2.

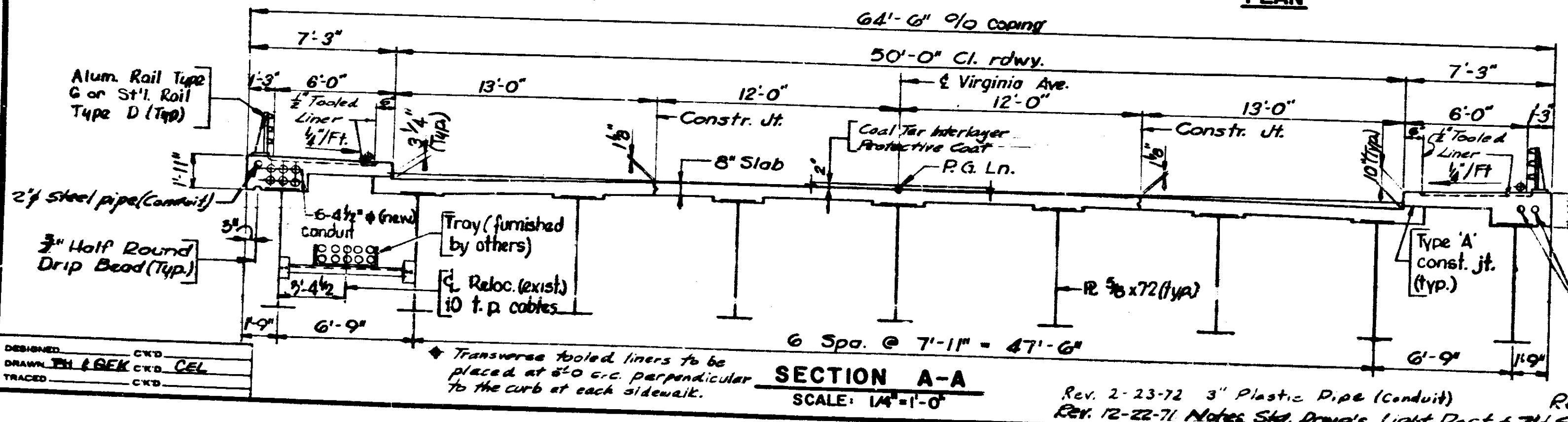
DESIGN DETAILS

Designed for H.S. 20-44 loading in accordance with 1969 AASHTO Specifications.

PAVEMENT OFFSETS



PLAN



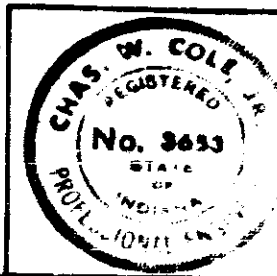
SECTION A-A

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

BR. STA. RD. STD.	DESCRIPTION
C1	Standard Miscellaneous Details
D	Roadway Drains
BR1	Bridge Railing Type G
BR2	Bridge Railing Type G Details
BR3	Bridge Railing Type D
BR4	Bridge Railing Type D Details
S-1	Typical Details for Placing 18" Borrow
C-2	Joint Details
LR2	Bridge Lighting Details

GENERAL PLAN
STEEL GIRDER BRIDGE
 1 SPAN: 155' - 0" ; SKEW 37° - 30' - 58" LT.
 50'-0" ROADWAY ; TWO 6'-0" SIDEWALKS
 VIRGINIA AVE. OVER I-65(SB) & RAMP '7N-W'
INDIANA STATE HIGHWAY COMMISSION
 MARION COUNTY
 SCALE: 1/16" = 1'-0" UNLESS NOTED
 JUNE 15, 1971

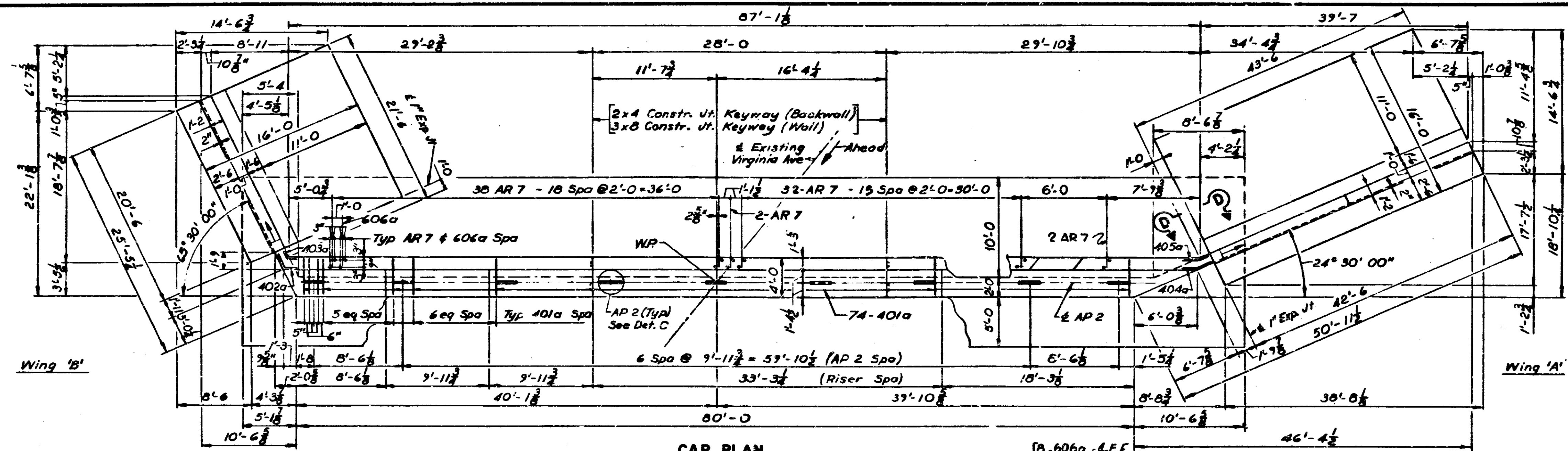
SUBMITTED FOR APPROVAL: [Signature]
 DRAWING: S2 OF 14
 PROJECT: 1-65-3(106)1111
 CONTRACT NO. B-6877
 BRIDGE FILE: 1-65-111-5720



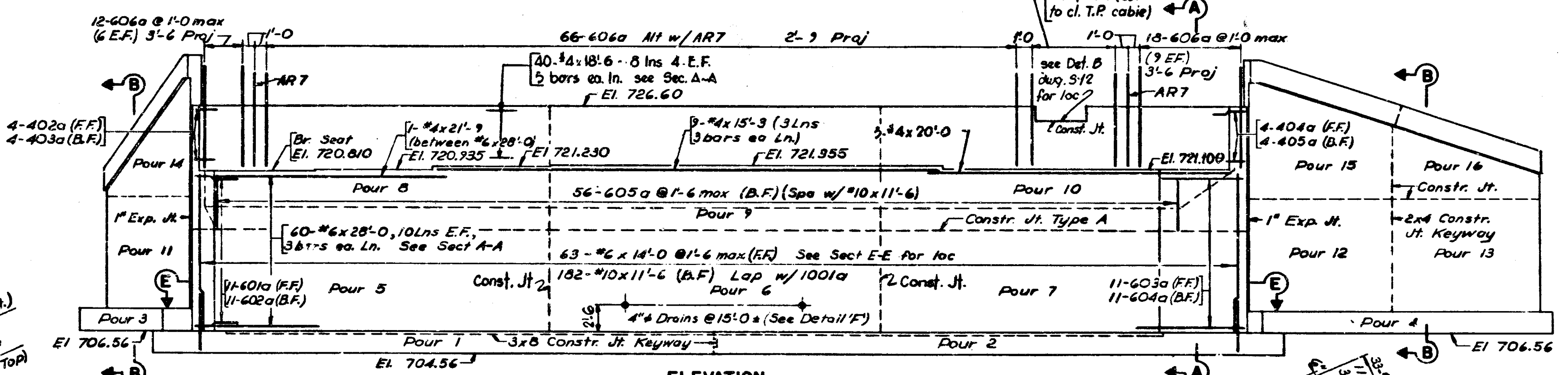
REV. 2-23-72 AW/M
 REV. 8-5-78 J.J.N., C.A.N., C.H.R.: E.O.
 REV. 12-29-72 J.J.N., C.H.R.: J.J.N., C.A.N., C.H.R.: E.O.
 REV. 12-29-72 J.J.N., C.H.R.: J.J.N., C.A.N., C.H.R.: E.O.

Rev. 2-23-72 3" Plastic Pipe (Conduit)
 Rev. 12-22-71 Notes, Std. Drawg's, Light Post & 2" Steel pipe (Conduit) added.
 Rev. 8-3-73 Section A-A, Class Concrete, Exp. Joint
 Rev. 12-29-72 Notes

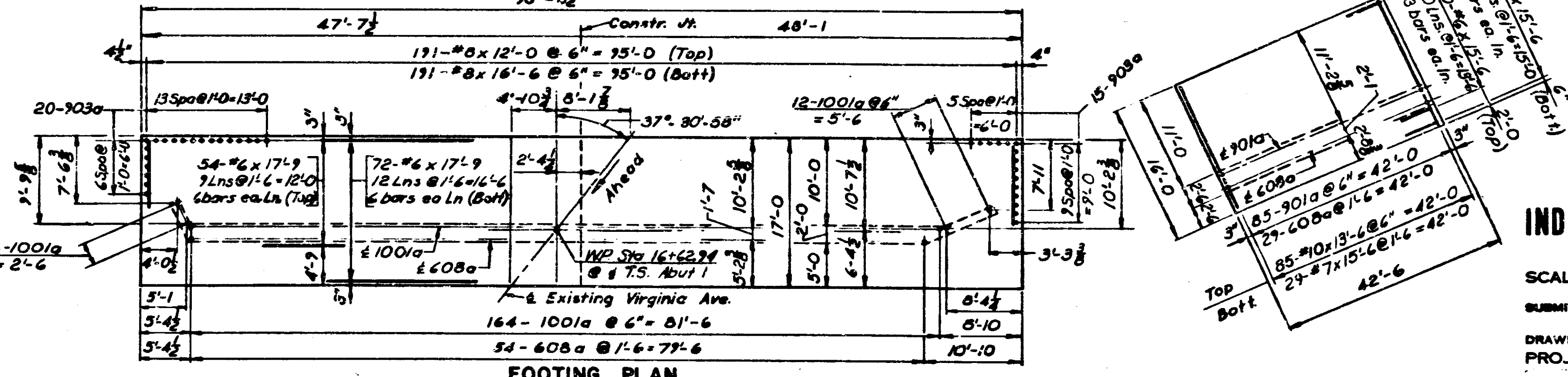
BRIDGES OVER 20' SPAN					
FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	I-65-3	1971	9	28



CAP PLAN



ELEVATION



FOOTING PLAN

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

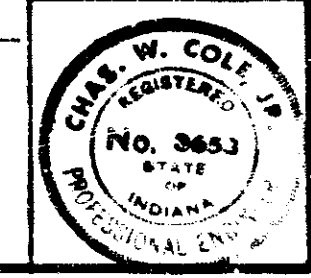
NOTE:
Do not backfill above Bridge Seat elevation prior to superstructure concrete placement and placement and compaction of fill in front of abutment & wings.

FF = Front Face
BF = Back Face
EF = Each Face

NOTES:
See Dwg S 2 for General Notes
Anchor B Mk AP2 to be preset in concrete.
See Br. Std C1 for Reinf. Bar Notes.
See Dwg S 4 for sections, details, wings 'A' & 'B', Bill of Materials, and Misc. Qty.
See Br. Std C3 for Type A Constr. Jt. & 1" Exp. Jt. details

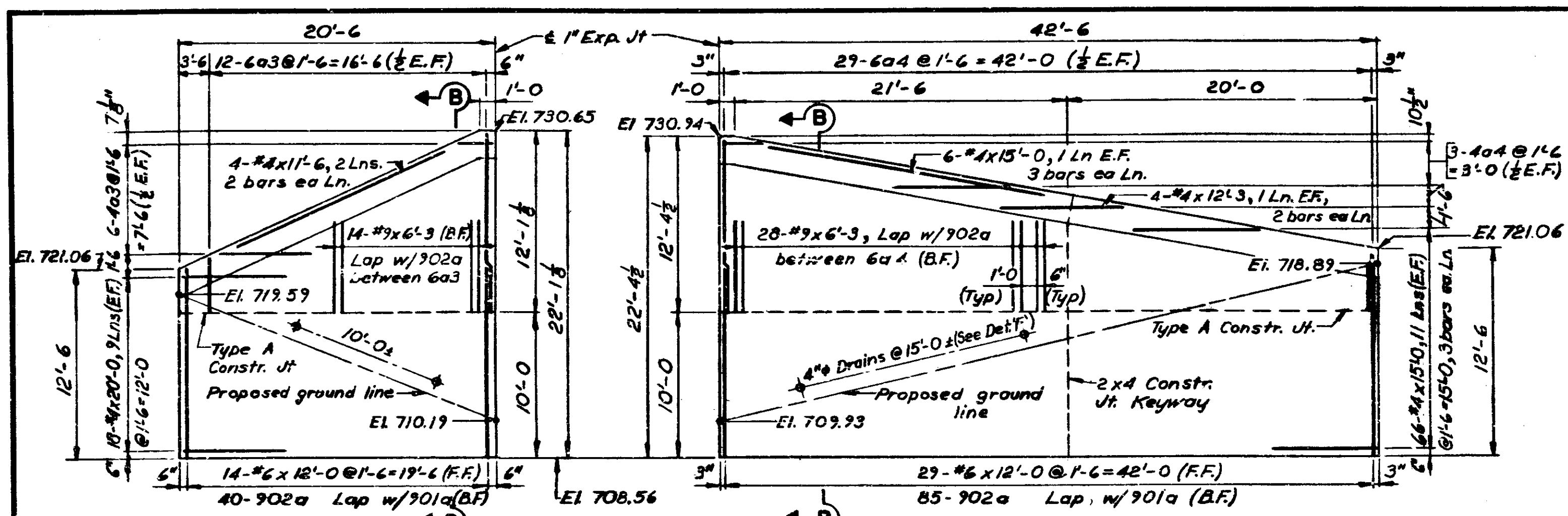
ABUTMENT I DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/16" = 1'-0" UNLESS NOTED
SUBMITTED FOR APPROVAL: *[Signature]*
DRAWING: S 3 OF 14
PROJECT: I-65-3(106)III
CONTRACT NO. B-6577
BRIDGE FILE: I-65-111-5720



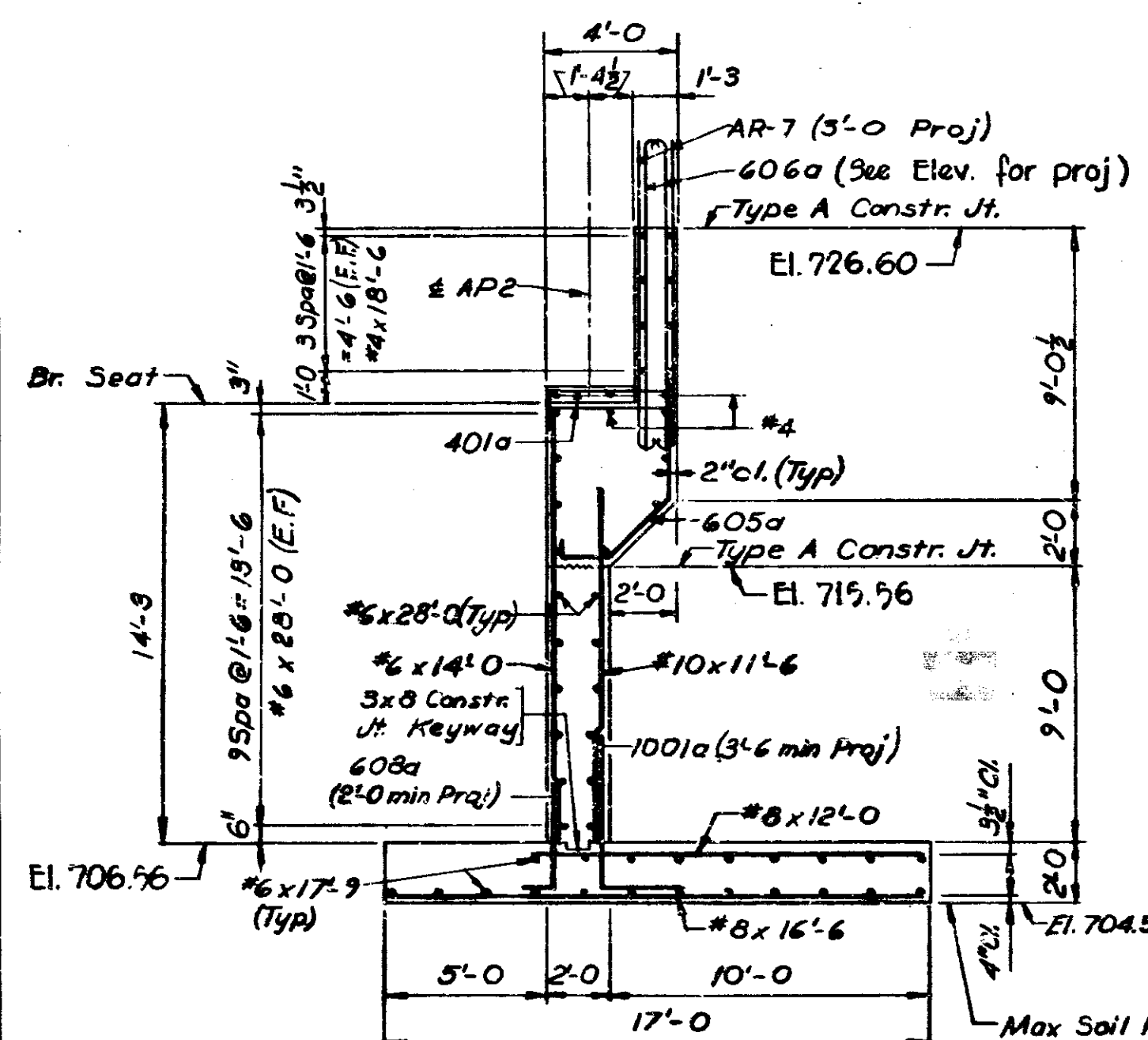
DESIGNED: GFK CWD
DRAWN: GFK CWD
CHECKED: REL CWD

PROJECT NO.	LINE	REV.	DATE	FILE

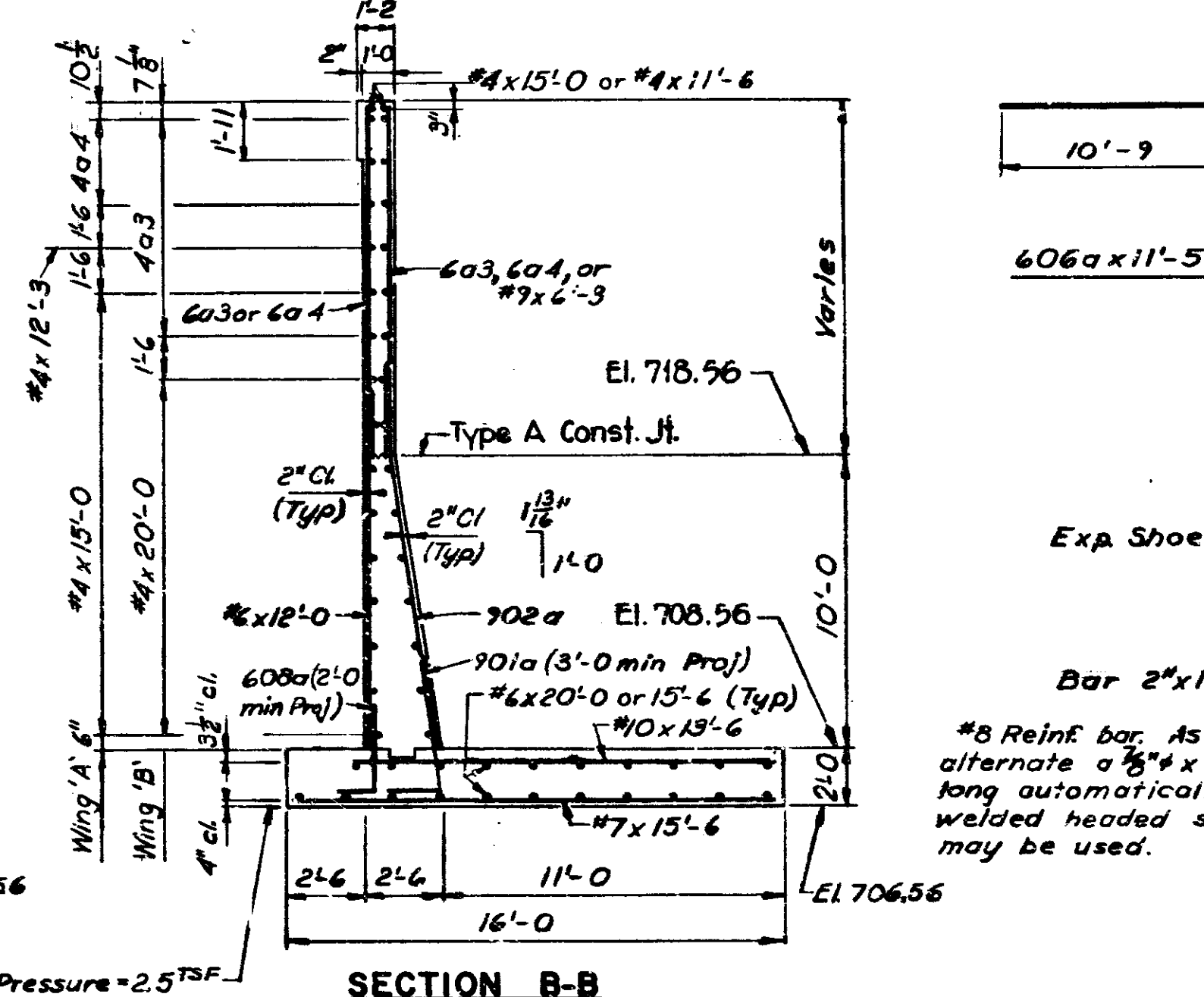


ELEVATION WING B
Scale 3/8"=1'-0" (Footing not shown)

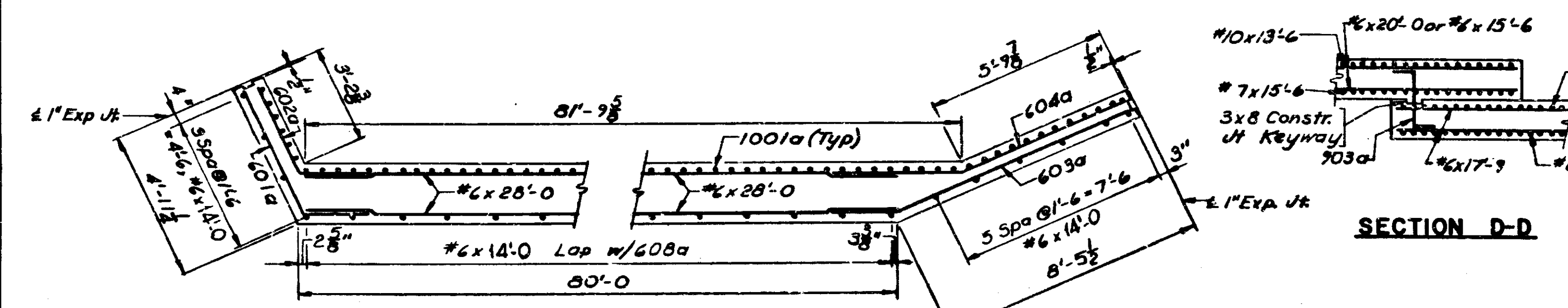
ELEVATION WING A
Scale 3/8"=1'-0" (Footing not shown)



SECTION A-A

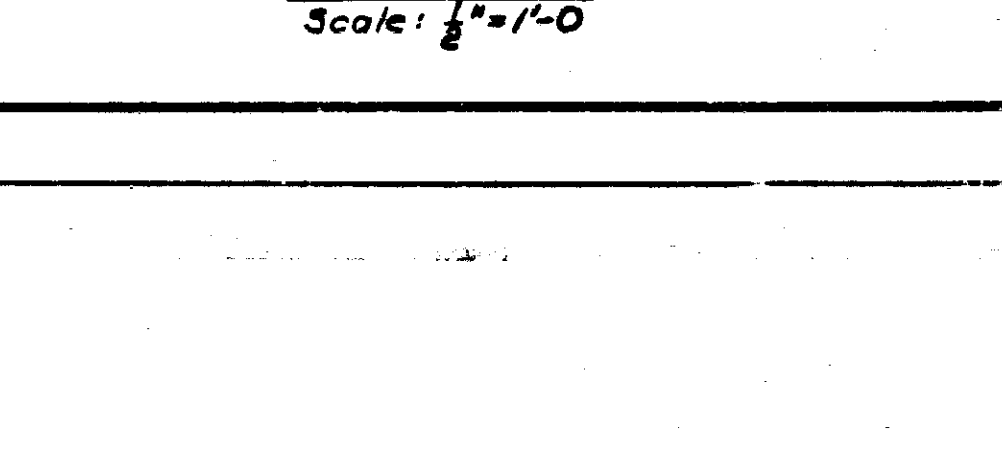
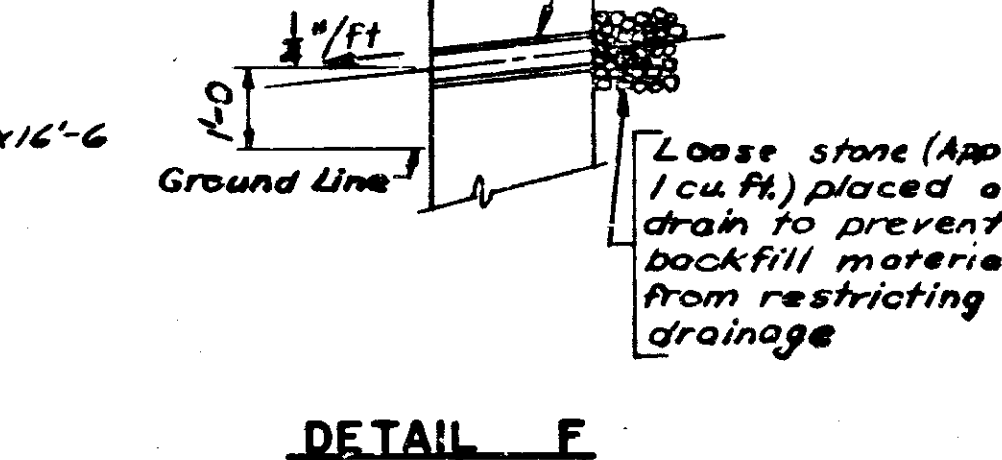
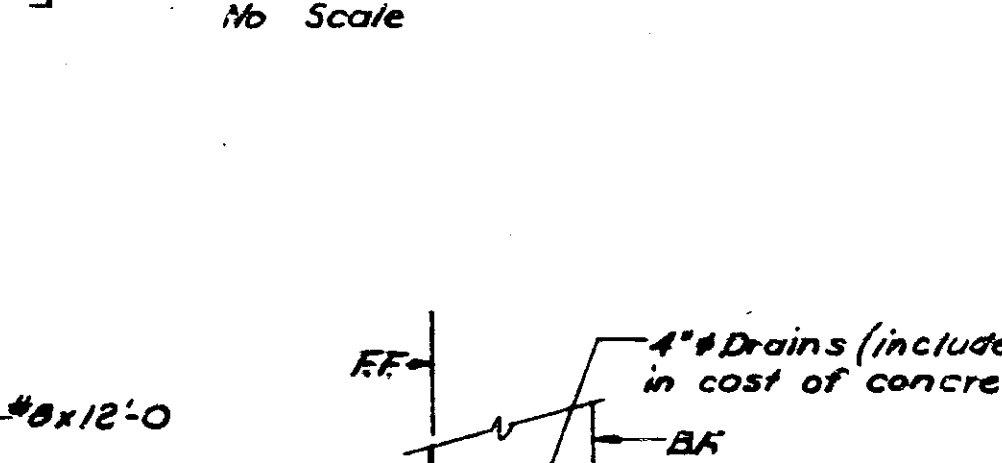
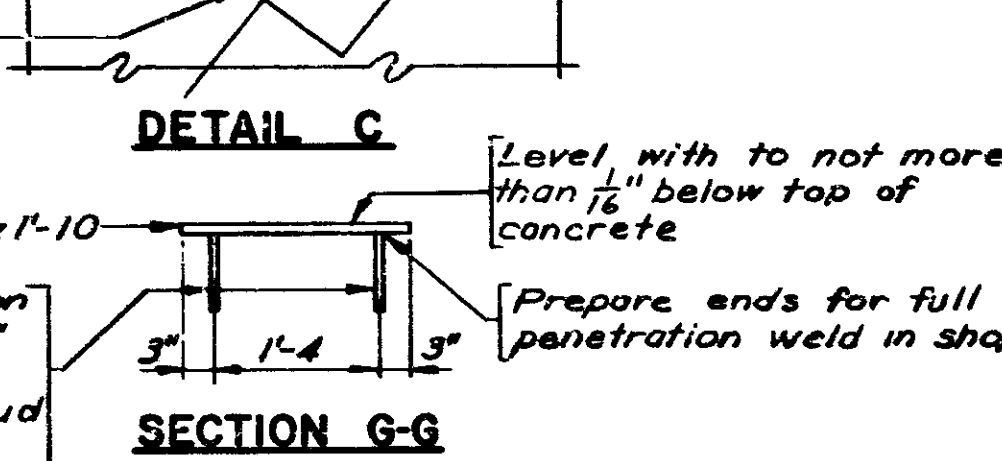
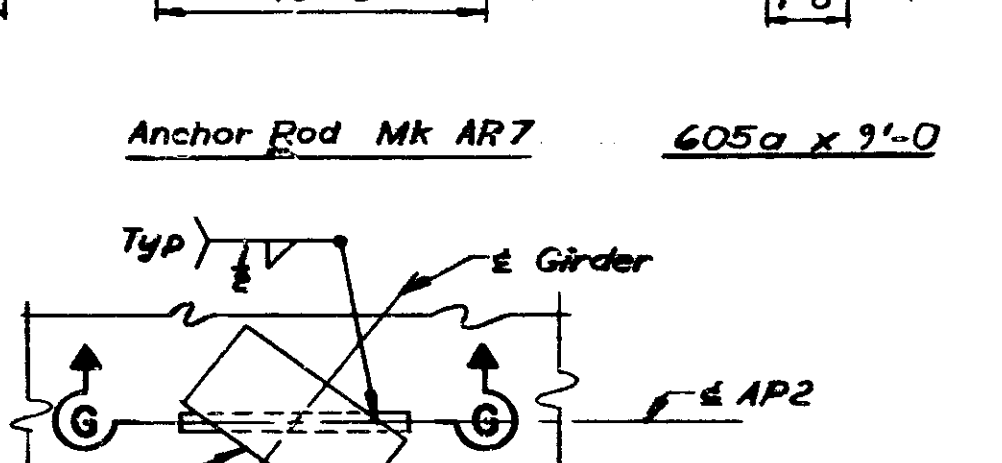
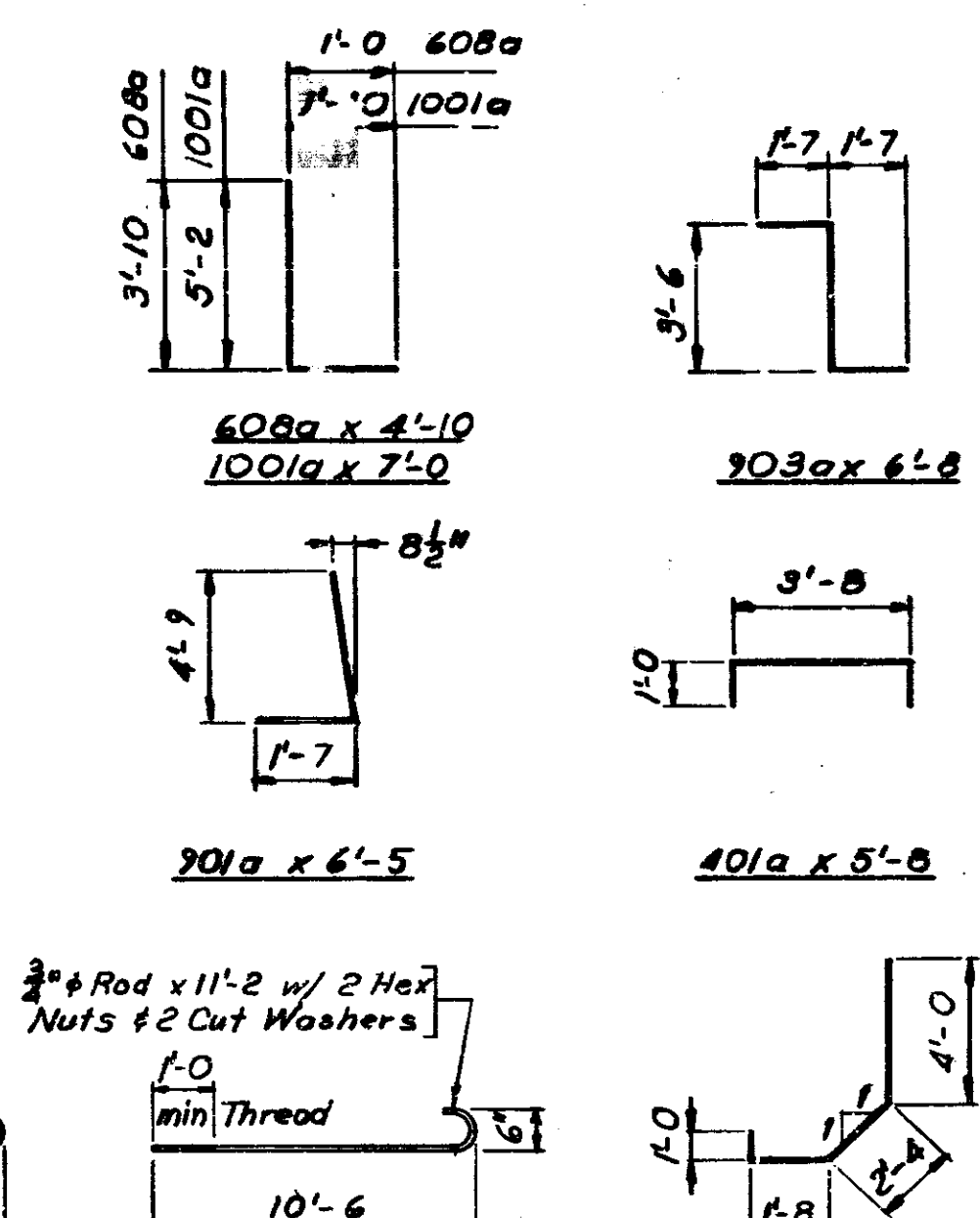


SECTION B-B



SECTION D-D

SECTION E-E
Scale 3/8"=1'-0"



BRIDGES OVER 20' SPAN					
PUR. ROAD DIST.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3 (106)111	1971	8	25

BILL OF MATERIALS			
MARK OR SIZE	NO. OF BARS	LENGTH	WEIGHT
1001a	182	7'-0"	
#10	125	13'-6"	
#10	182	11'-6"	
Total Weight #10			21750
901a	125	6'-5"	
902a	25	13'-0"	
903a	35	6'-8"	
#9	42	6'-3"	
Total Weight #9			9938
#8	191	16'-6"	
#8	191	12'-0"	
Total Weight #8			14534
#7	49	15'-6"	
Total Weight #7			1362
6a3	12	15'-9"	
6a4	29	14'-5"	
601a	11	6'-6"	
602a	11	5'-3"	
603a	11	10'-3"	
604a	11	9'-6"	
605a	56	9'-0"	
#6	60	28'-0"	
#6	21	20'-0"	
#6	126	17'-9"	
#6	63	15'-6"	
#6	63	14'-0"	
#6	43	12'-0"	
Total Weight #6			14018
4a3	6	18'-7"	
4a4	3	21'-0"	
401a	74	5'-8"	
402a	4	4'-0"	
403a	4	3'-0"	
404a	4	3'-6"	
405a	4	3'-6"	
#4	21	20'-0"	
#4	40	18'-6"	
#4	9	15'-3"	
#4	4	12'-3"	
#4	4	11'-6"	
#4	1	21'-9"	
Total Weight #4			2100
Total Wt. Reinf. Steel			67702 Lb.

Mark	'A'	'B'	'C'	Length	No. Bars
4a3	1'-7"	17'-0"	3'-1"	18'-7"	6
4a4	4'-3"	16'-9"	2'-3"	21'-0"	3
6a3	4'-0"	11'-9"	8 1/2"	15'-9"	12
6a4	2'-9"	12'-2"	4 1/4"	14'-5"	29

Mark	'A'	'B'	'C'	Length
902a	3'-0"	10'-0"	5 3/8"	13'-0"
601a	2'-0"	4'-6"	1'-9 1/2"	6'-6"
602a	2'-0"	3'-3"	1'-9 1/2"	5'-3"
603a	2'-0"	8'-3"	10 1/2"	10'-3"
604a	4'-0"	5'-6"	1'-7 1/2"	9'-6"
402a	1'-6"	2'-6"	1'-4 3/8"	4'-0"
403a	1'-0"	2'-0"	1 1/4"	3'-0"
404a	1'-6"	2'-0"	7 1/2"	3'-6"
405a	1'-0"	2'-6"	5"	3'-6"

CONCRETE	
POUR NUMBER	QTY
Pour 1	60.0
Pour 2	60.5
Pour 3	24.3
Pour 4	50.4
Total Class 'B' Conc. in Ftg.	195.2 cu
Pour 5	20.3
Pour 6	18.7
Pour 7	18.7
Pour 8	29.5
Pour 9	28.6
Pour 10	28.8
Pour 11	13.3
Pour 12	13.9
Pour 13	13.0
Pour 14	60
Pour 15	8.9
Pour 16	8.9
Total Class 'B' Conc. Above Ftg.	202.9 cu

MISCELLANEOUS	
Anchor Plate Mk AP2	9 ea.
Anchor Rods Mk AR7	74 ea.

NOTES:
See Dwg 52 for General Notes
See Br. Std. C-1 for Reinf.
See Br. Notes
See Br. Std. C-2 for Type 'A' const. ft.

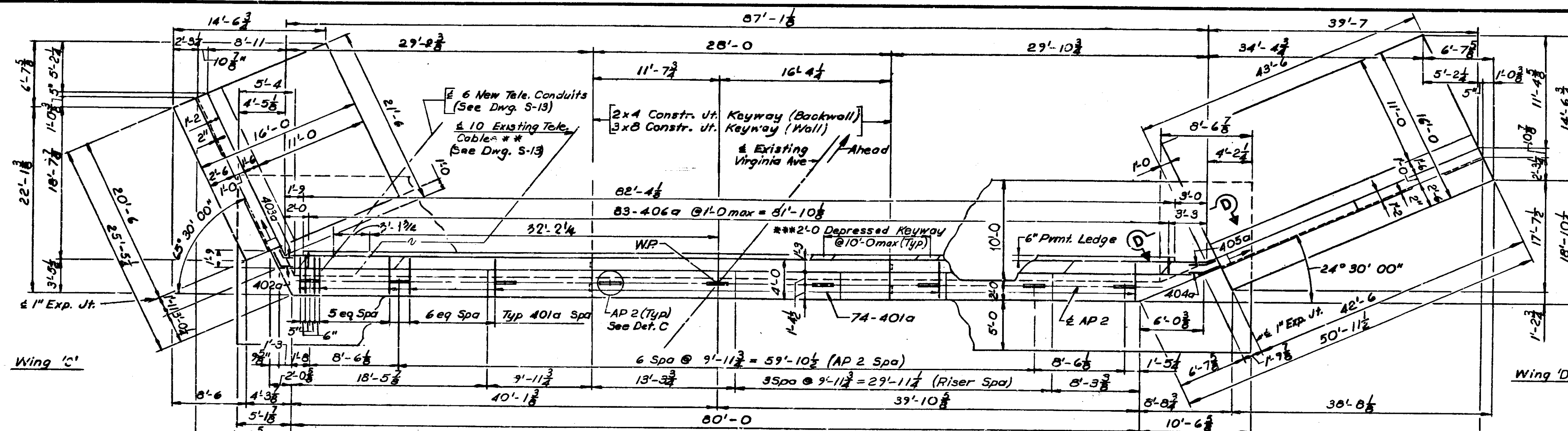
ABUTMENT I DETAILS
INDIANA STATE HIGHWAY COMMISSION
SCALE: 1/4" = 1'-0" UNLESS NOTED
SUBMITTED FOR APPROVAL: [Signature]
DRAWING: S 4 OF 14
PROJECT: I-65-3 (106)111
CONTRACT NO. B-8877
BRIDGE FILE: I-65-111-5720



DESIGNED: GEX
DRAWN: GEX
CHECKED: GEX
TRACED: GEX

Rev. 8-78 Section A-A

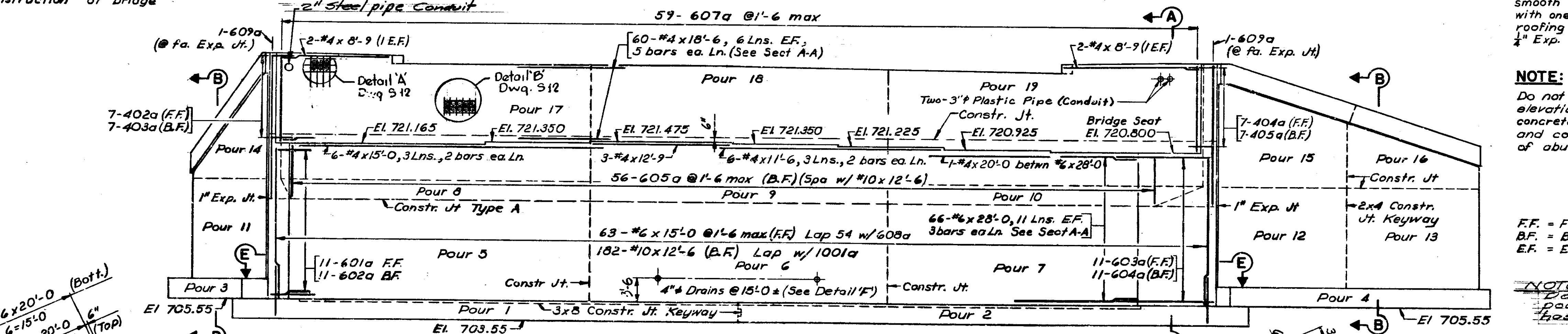
BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	I-65-3 (I-65-111)	1971	7 25



CAP PLAN

** Existing 10 Telephone cables to remain in operation during construction of Bridge

*** 2"x2'-0 depressed keyway. Trowel smooth and cover horiz. bearing area with one layer of medium weight roofing felt. Vertical surfaces to have 1/4" Exp. Jt. Material.



ELEVATION

NOTE:
Do not backfill above Bridge Seat elevation prior to superstructure concrete placement and placement and compaction of fill in front of abutment & wings.

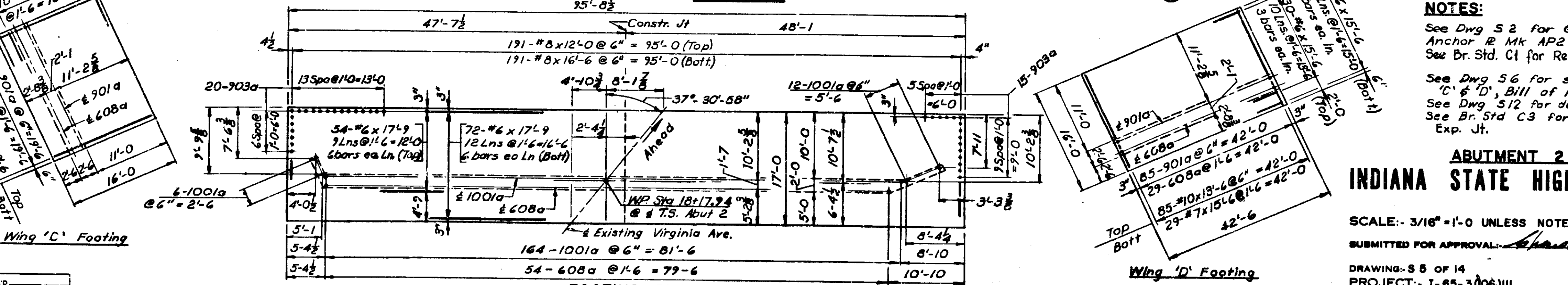
FF. = Front Face
BF. = Back Face
EF. = Each Face

NOTE:
Pours #17, #18 & #19 to be poured after fiber glass has been completed

NOTES:
See Dwg S 2 for General Notes.
Anchor B Mk AP2 to be present in concrete.
See Br. Std. C1 for Rein' Bar Notes.
See Dwg S 6 for sections, details, wings 'C' & 'D', Bill of Materials, and Misc. Qty.
See Dwg S 12 for details A & B
See Br. Std. C3 for Type A Constr. Jt. & 1" Exp. Jt.

ABUTMENT 2 DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/16" = 1'-0 UNLESS NOTED
JUNE 15, 1971
SUBMITTED FOR APPROVAL: [Signature]
DRAWING: S 5 OF 14
PROJECT: I-65-3 (I-65-111)
CONTRACT NO. B-6277
BRIDGE FILE: I-65-111-5720

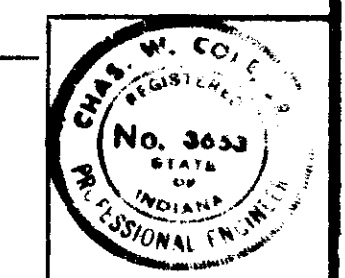


FOOTING PLAN

Scale: 3/8" = 1'-0

Rev. 12-22-71 Notes.
Rev. 2-23-72 Plastic Pipe (Conduit) 3"

DESIGNED: GFK C.K.D.
DRAWN: GFK C.K.D. DEL
TRACED: GFK C.K.D.



REV. 12-22-71 F.S.B. Chk. J.J.W. Rev. 2-23-72 AVUM

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE

FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	I-65-3 (106) III	1971	8	28

BILL OF MATERIALS
REINFORCING STEEL

MARK OR SIZE	NO. OF BARS	LENGTH	WEIGHT
1001a	182	7'-0"	
#10	125	13'-6"	
#10	192	12'-6"	
Total Weight #10			22533
901a	125	6'-5"	
902a	125	13'-0"	
903a	35	6'-8"	
#9	42	6'-3"	
Total Weight #9			9338
#8	191	16'-6"	
#8	191	12'-0"	
Total Weight #8			14534
#7	49	15'-6"	
Total Weight #7			1362

Mark	'A'	'B'	'C'	Length	No. Bars
4a1	2'-7"	18'-0"	3'-1"	20'-7"	6
4a2	3'-9"	19'-9"	8'-0"	23'-6"	3
6a1	3'-8"	12'-2"	8'-1/2"	15'-10"	13
6a2	4'-2"	11'-9"	3'-1/4"	15'-11"	29

Mark	'A'	'B'	'C'	Length
902a	3'-0"	10'-0"	5'-3/4"	13'-0"
601a	2'-0"	4'-6"	1'-9 1/2"	6'-6"
602a	2'-0"	3'-3"	1'-7 1/2"	5'-3"
603a	2'-0"	8'-3"	10"	10'-3"
604a	4'-0"	3'-6"	1'-7 1/2"	9'-6"
402a	1'-6"	2'-6"	1'-4 1/2"	4'-0"
403a	1'-0"	2'-0"	11"	5'-0"
404a	1'-6"	2'-0"	7 1/2"	3'-6"
405a	1'-0"	2'-6"	5"	3'-6"

CONCRETE	
POUR NUMBER	QTY
Pour 1	60.0
Pour 2	60.5
Pour 3	24.3
Pour 4	50.4
Total Class 'B' Conc. in Fig. 1752cu	
Pour 5	22.5
Pour 6	20.7
Pour 7	20.8
Pour 8	24.0
Pour 9	22.9
Pour 10	22.5
Pour 11	13.3
Pour 12	13.9
Pour 13	13.0
Pour 14	6.3
Pour 15	8.3
Pour 16	4.8
Pour 17	11.3
Pour 18	10.2
Pour 19	11.1
Total Class 'B' Conc. Above Fig. 225Cu	

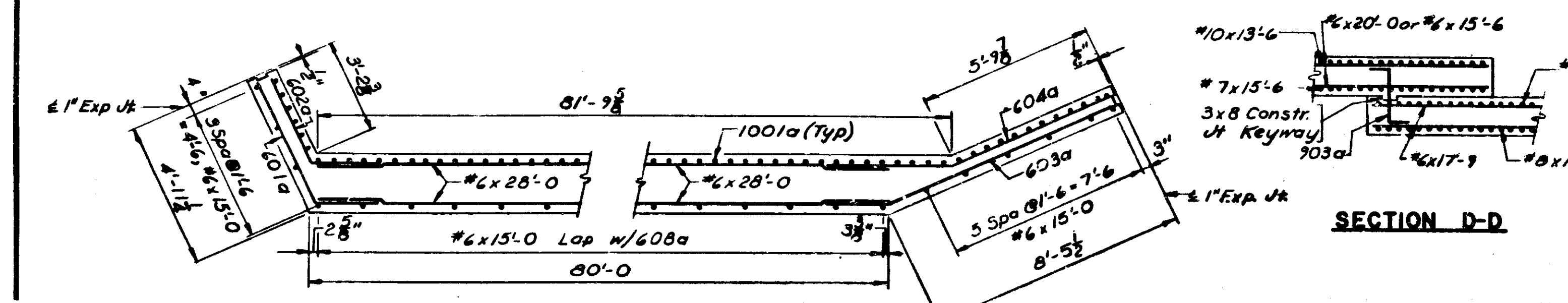
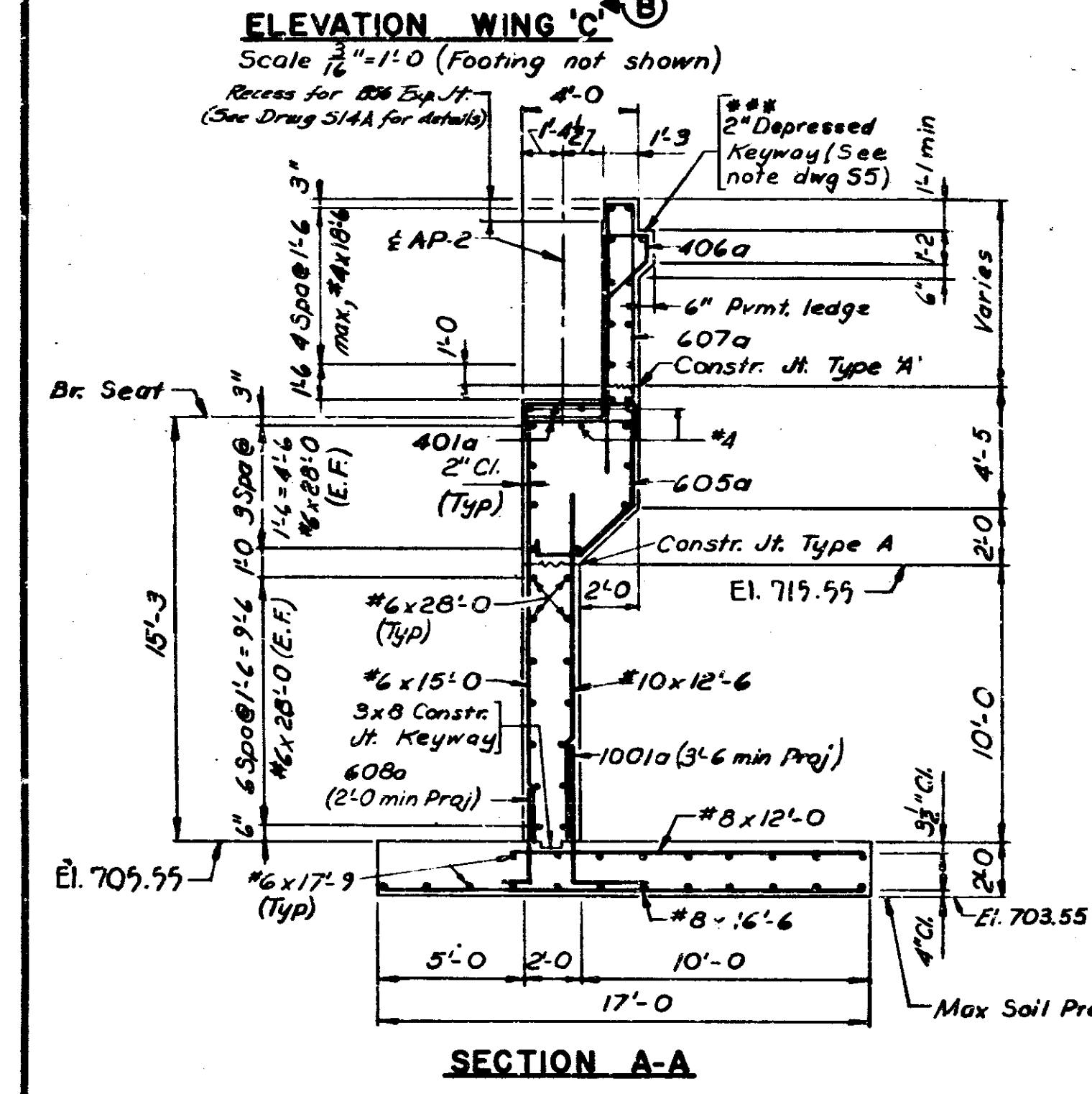
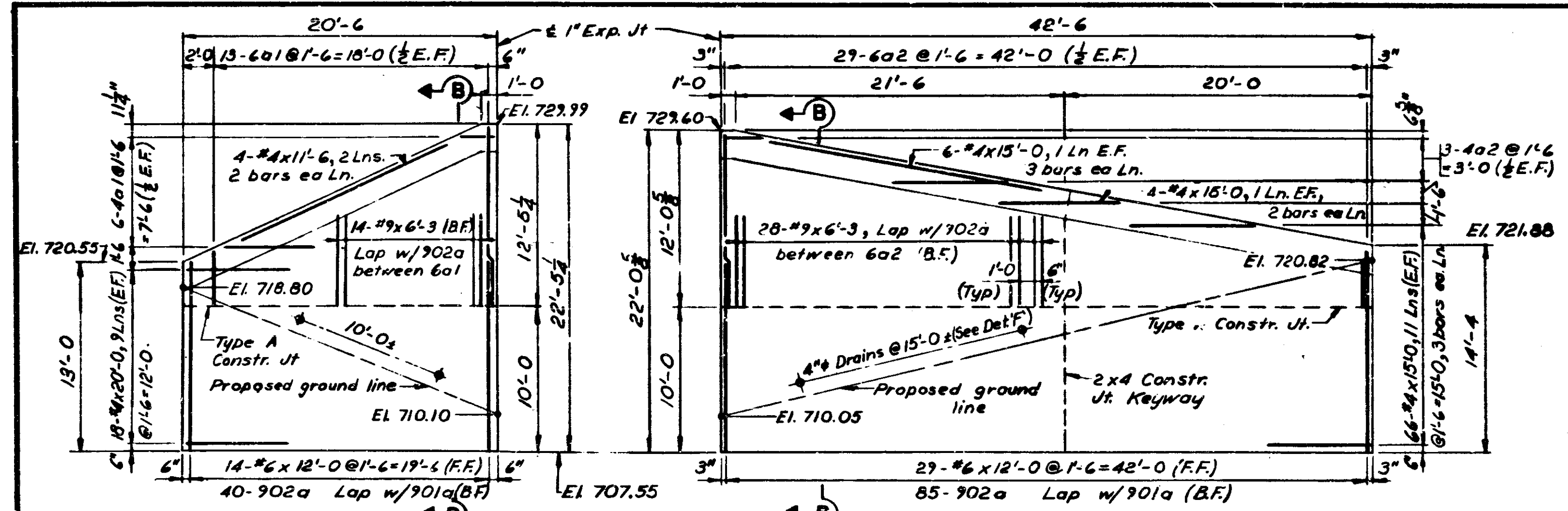
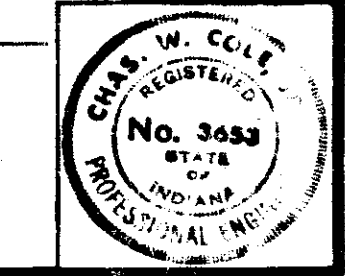
MISCELLANEOUS	
Anchor Plate Mk AP 2	9 ea.

4a1	6	20'-7"
4a2	3	23'-6"
401a	74	5'-8"
402a	7	4'-0"
403a	7	3'-0"
404a	7	3'-6"
405a	7	3'-6"
406a	83	4'-10"
#4	19	20'-0"
#4	60	18'-6"
#4	82	15'-0"
#4	3	12'-9"
#4	10	11'-6"
#4	4	8'-9"
Total Weight #4		
2686		
Total Wt. Reinf. Steel 66412LB		

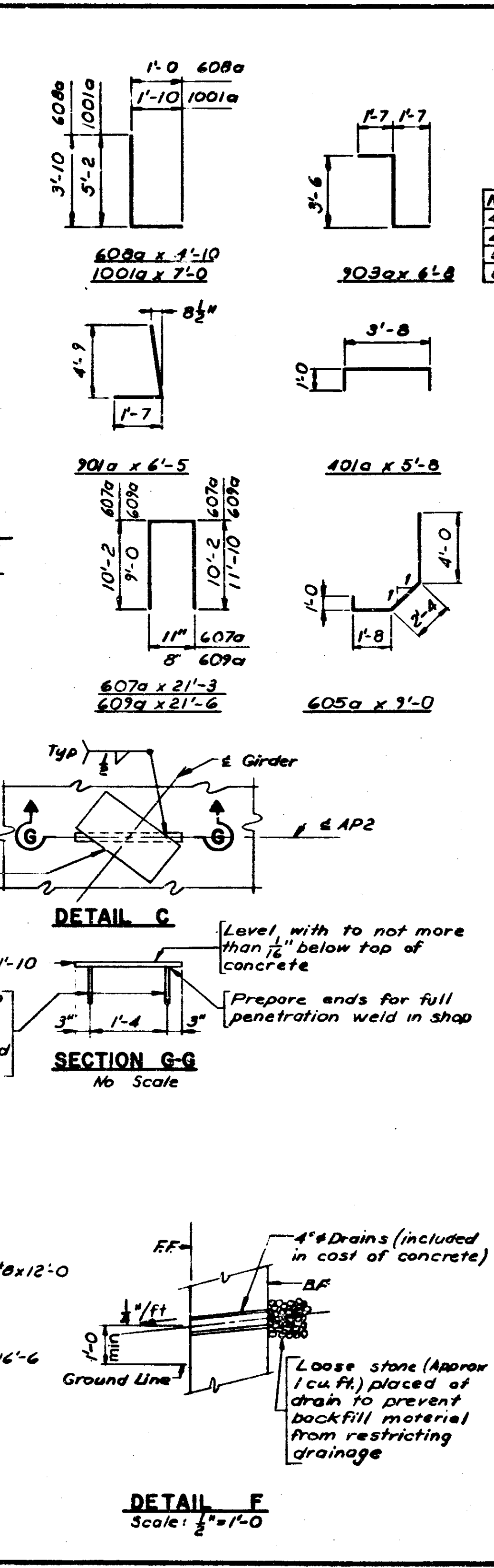
NOTES:
See Dwg 52 for General Notes
See Br. Std. C-1 for Reinf. Bar Notes

ABUTMENT 2 DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0" UNLESS NOTED
JUNE 15, 1971
SUBMITTED FOR APPROVAL: *[Signature]*
DRAWING: 56 OF 14
PROJECT: I-65-3 (106) III
CONTRACT NO. B-5877
BRIDGE FILE: I-65-III-5720



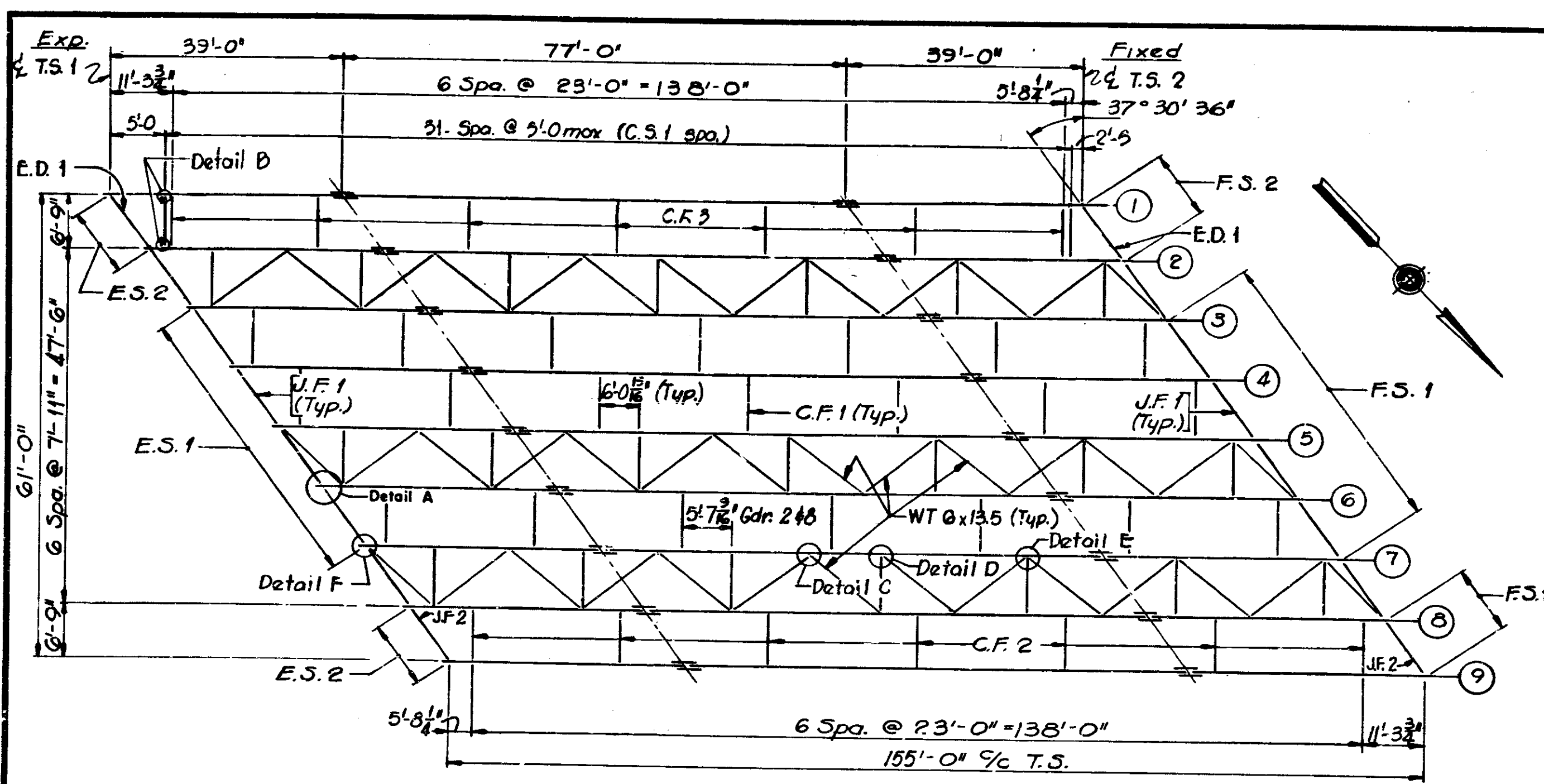
DESIGNED: GFK CKD
DRAWN: GFK CKD
TRACED: GFK CKD



Rev. B-3-73 Section A-A; Bill of Materials.

Rev. 6-5-73 JLN, C.A.N. CHK. E.E.

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	TOTAL SPAN	NO. OF SPANS	TOTAL COST (\$)
4	IND.	I-65-3 (NOB III)	1971	9	25

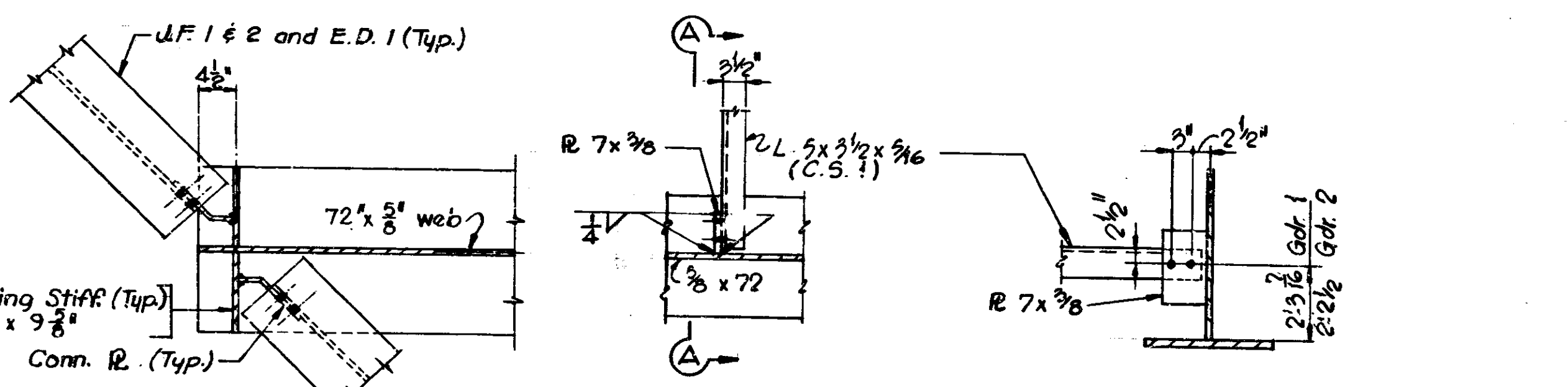


DESIGN DATA:
 LIVE LOADS: HS20-44 loading with impact and distribution of loads in accordance with 1969 AASHTO Specifications and
 DEAD LOAD: Actual weight plus 35#/sq.ft. of roadway to provide for future wearing surface.
 FLOOR SLAB: Designed for 16,000 pound wheel plus impact, and with 1" monolithic wearing surface.
 ALLOWABLE STRESSES:
 Structural Steel - (A-96)
 Bending - Tension or Compression ----- 20,000 P.S.I.
 Bearing - Not including H.S. Bolts ----- 29,000 P.S.I.
 Butt Welds - Tension ----- 20,000 P.S.I.
 Shear on Fillet Welds ----- 12,400 P.S.I.
 Shear on Friction Type Fasteners ----- 13,500 P.S.I.
 Bearing Steel on Concrete - including overturning and Eccentric Loadings ----- 1,000 P.S.I.
 Reinforcing Steel - Tension ----- 20,000 P.S.I.
 Concrete - Compression ----- 1,200 P.S.I.

Sheared plates or universal mill plates shall be used for girder webs, and shall be ordered with sufficient additional width to allow for trimming of edges to provide built-in camber for dead load deflection and vertical curve. Trimming shall be by flame cutting. The faying surfaces of the web and flange plates and the adjacent surfaces that are to be welded shall be cleaned by grinding prior to assembly and welding of web to flange. When the girder sections are fit up in the shop for reaming or drilling of field splices, the centerlines of opposing flanges shall not deviate more than 1/8" with the webs in alignment.
 Holes for girder splices, and splice plates shall be subpunched or subdrilled and reamed to size while assembled. See article 711.24 of the Specifications. Flange splice bars shall have planed or rolled edges and holes in bars shall be subdrilled and reamed or drilled full size while assembled.
 Diameter of holes in all material connecting top shoes to girder flanges to be 1 1/8". Bolts connecting beam flange to top shoe shall extend into top shoe a minimum of 1". Shims between beams and toe shoe may be built up. No shim shall be less than 1/4" thickness.
 Rivets shall not be used in the assembly of structural steel. As soon as the Engineer has approved the field welds, all welds and any surface from which the shop coat has been omitted or becomes worn off or has otherwise become defective shall be thoroughly cleaned of all charred paint or any foreign matter and completely covered with one coat of shop paint.
 Estimated weight of Structural Steel 772,700 lb.
 Includes 13,300 lb. for Toothed Expansion Joint.
 Weight of Bronze Plates 226 lb.
 The weight of high strength bolts is not included in the estimated weight of structural steel. The cost of these bolts shall be included in the cost of structural steel.
 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 #2 to General Letter #19-71 dated August 19, 1971.
 Shop plans shall indicate which splices the contractor intends to eliminate and also means of transportation whether by rail or over State Highways.
 Materials as listed on the 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 art. 711.07 of Specs.

STRUCTURAL STEEL NOTES:
 High Strength bolts 7/8" unless noted; Open Holes 1 1/4" unless noted.
 All point shall be in accordance with current State Highway Specifications:
 Shop Point; Field Point; Basic Lead Silico Chromate.
 All Structural Steel shall conform to ASTM A-36 unless otherwise noted.
 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 snug tight 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.
 All butt welds shall be subject to radio-graphic inspection at the option of the Engineer.
 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 to the Engineer. See Article 711.04 of the Specifications.
 The shop details shall show a plan of matchmarking for all reamed pieces. All splice plates to be removed, cleaned, and deburred after reaming. Splice plates shall not extend beyond the end of the Girder after bolting for shipment.
 Structural steel for welding may be flame cut if the flame cutting 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.
 All shop butt welds in flange plates shall be ground smooth and flush with the base metal on all surfaces. This shall apply to both parts of equal thickness and unequal thickness. Grinding shall be done in the direction of stress and in such a manner that the metal is kept below the blue brittle range. Any defect exposed by the grinding shall be cleaned, filled with weld metal, and reground to a uniform finish.
 Girders must be cambered to a smooth curve. Camber must be checked after the shop welding is completed and while the girders are supported in such a way as to have no bending moment in the direction of camber.

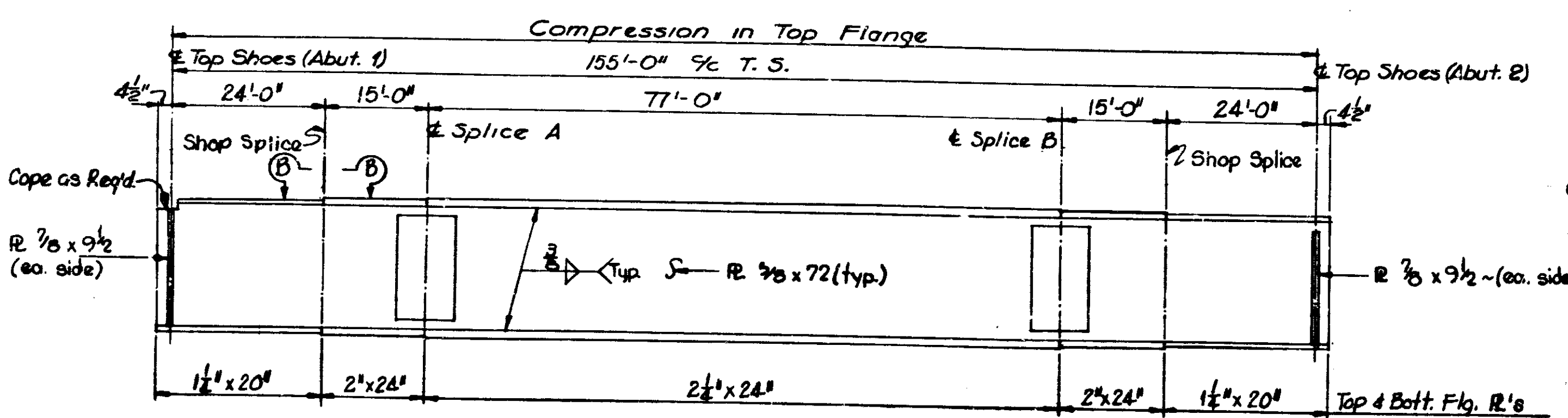
PLAN



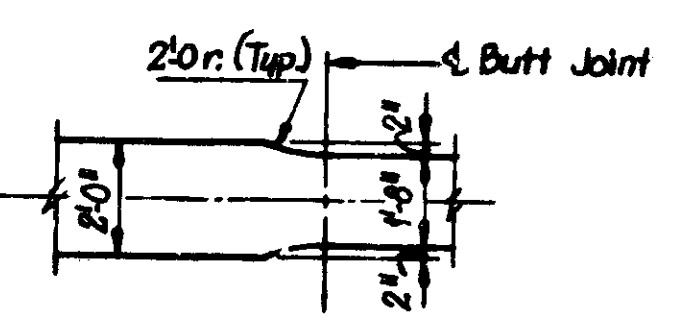
DETAIL A

DETAIL B

SECTION A A



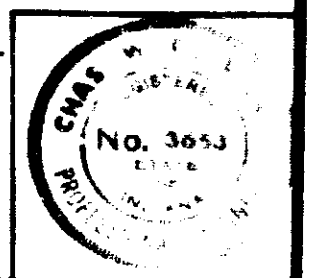
TYP. GIRDER ELEVATION



VIEW B-B

FRAMING PLAN
INDIANA STATE HIGHWAY COMMISSION

SCALE: NONE
 JUNE 15, 1971
 SUBMITTED FOR APPROVAL: *[Signature]*
 DRAWING: S 7 OF 14
 PROJECT: I-65-3(106)III
 CONTRACT NO. B-8677
 BRIDGE FILE: I-65-III-5720



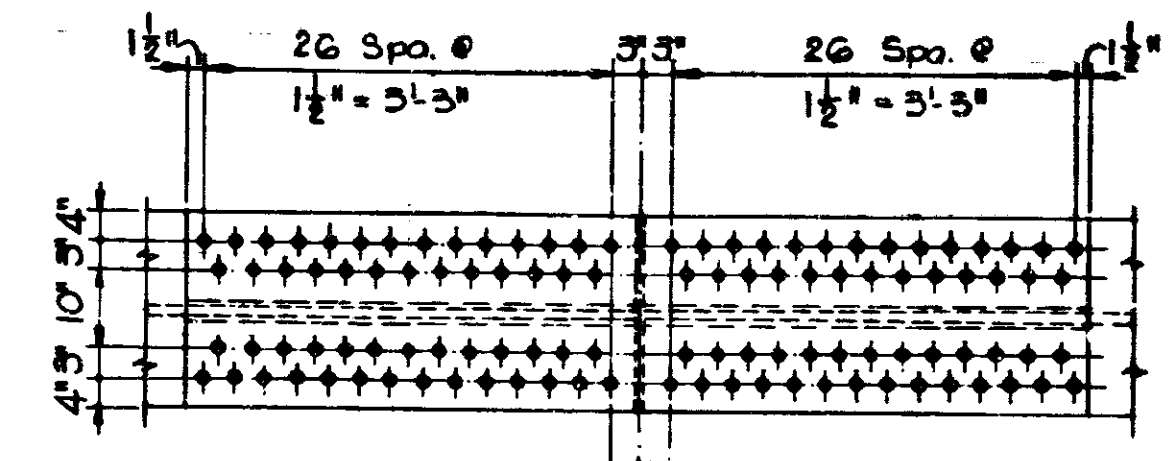
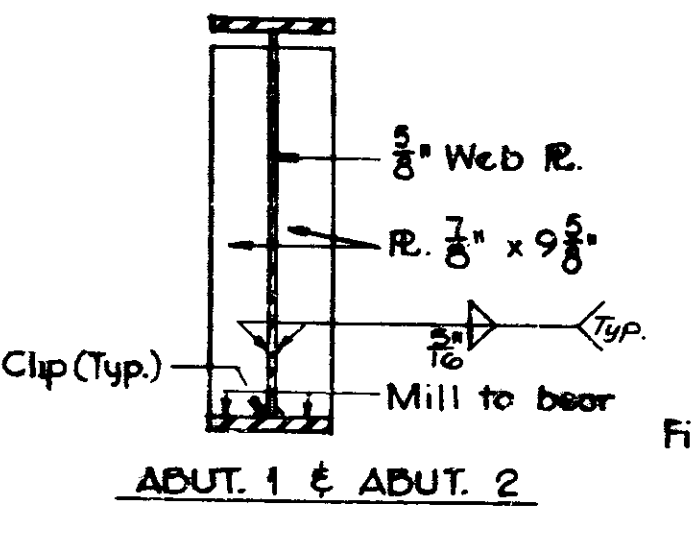
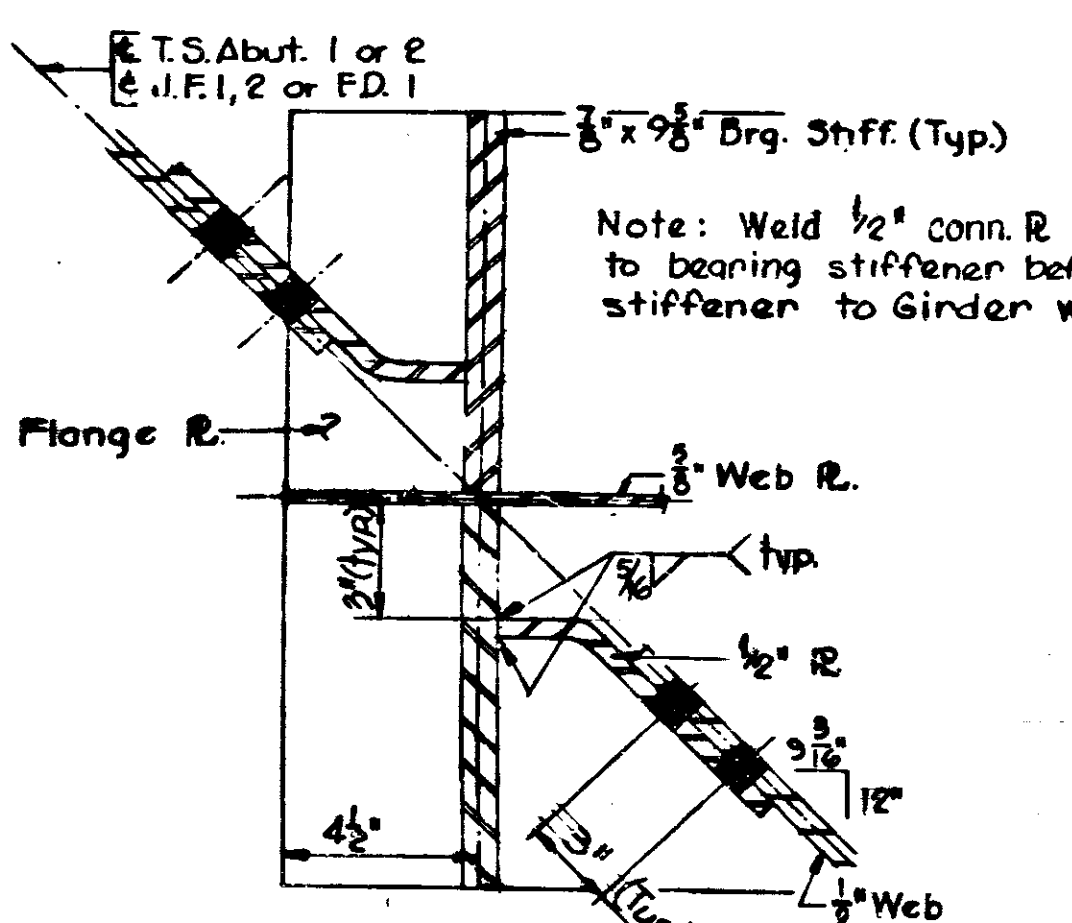
DESIGNED	CWD
DRAWN	G.F.G. FDM C.W.C.
TRACED	CWD

Rev. 12-29-72 *[Signature]* Structural Steel Notes

Rev. 12-22-71

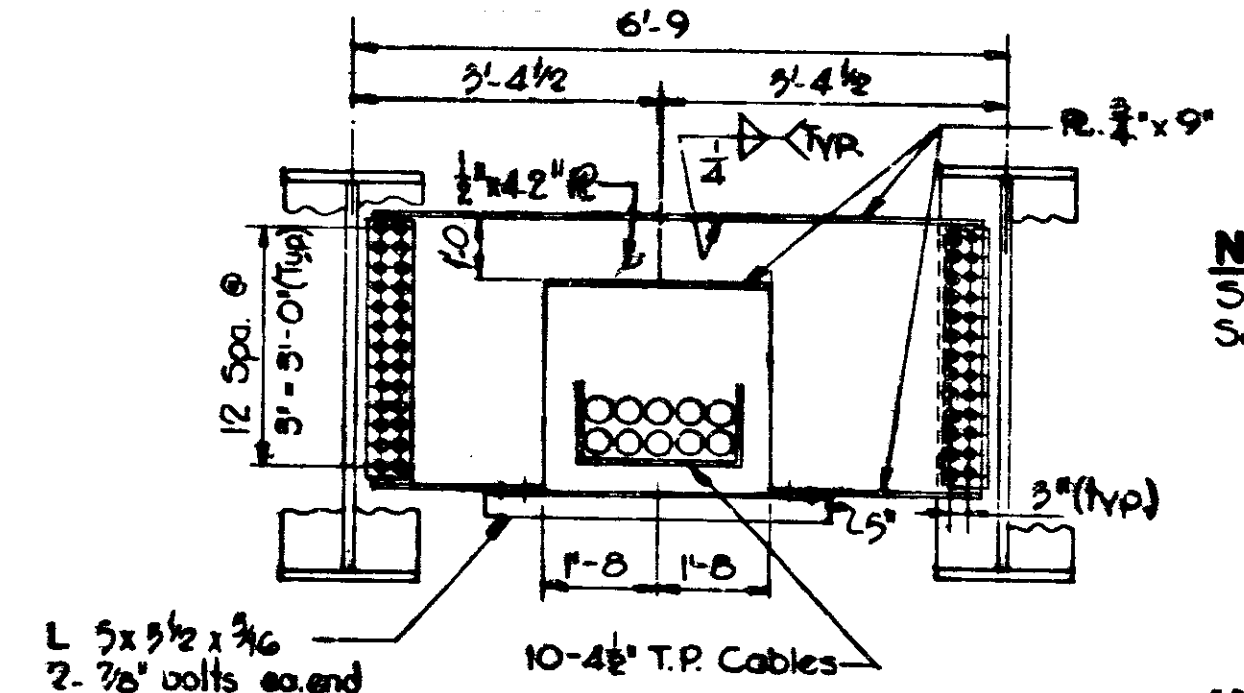
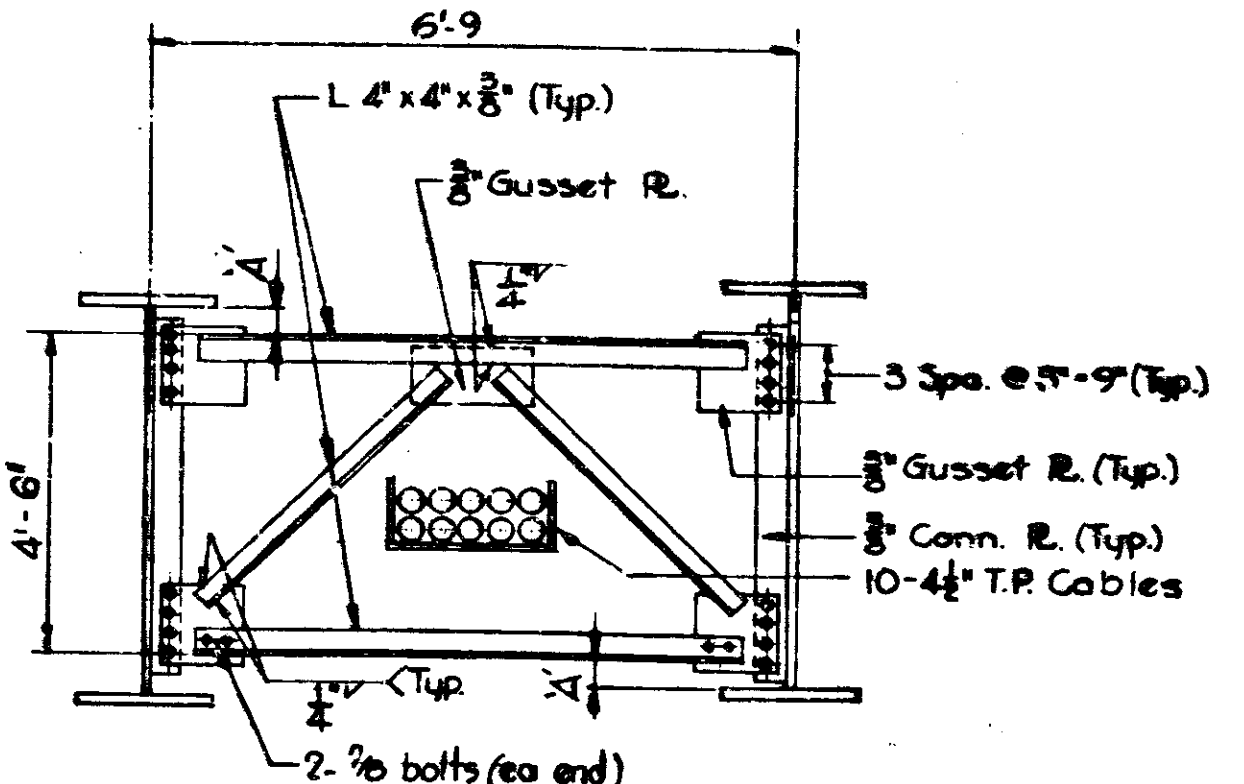
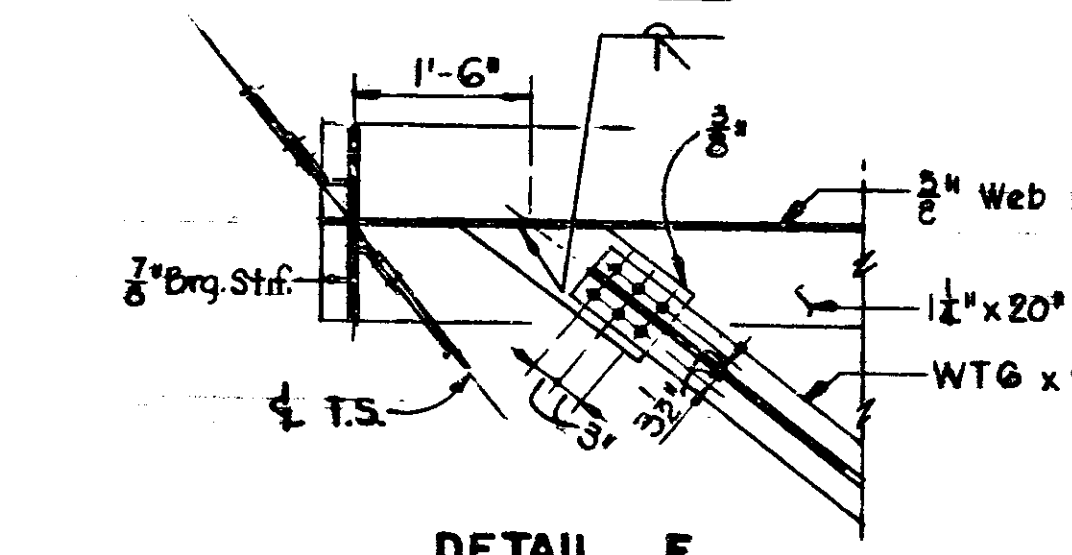
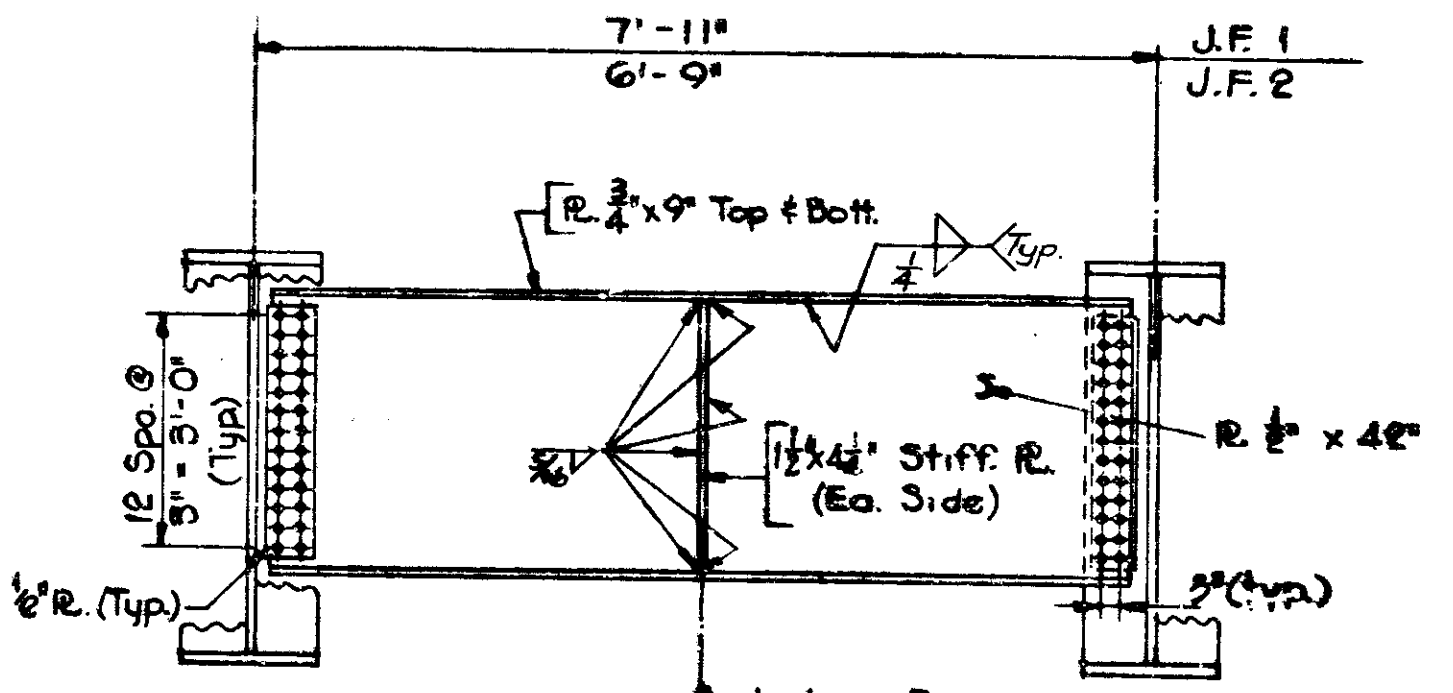
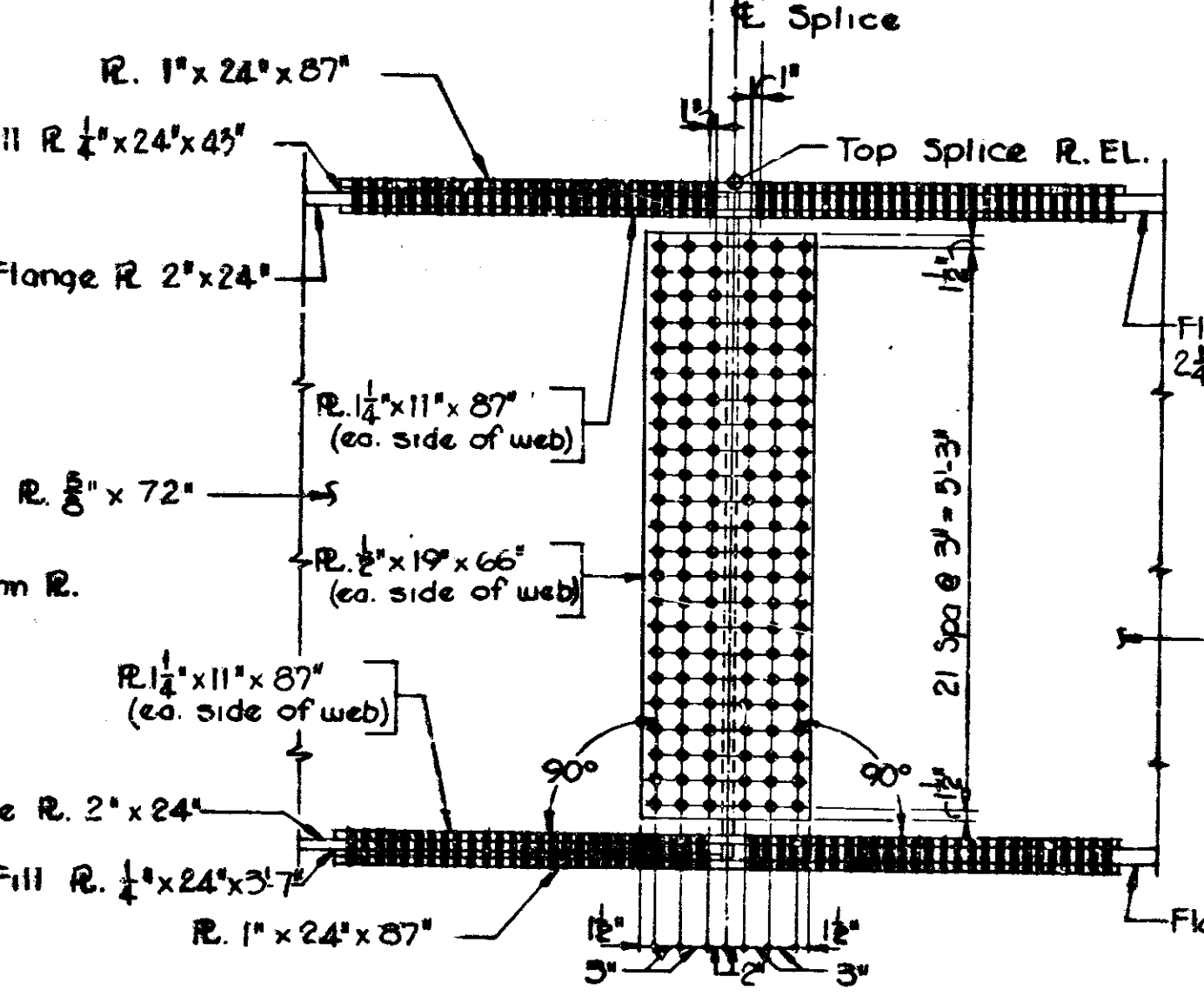
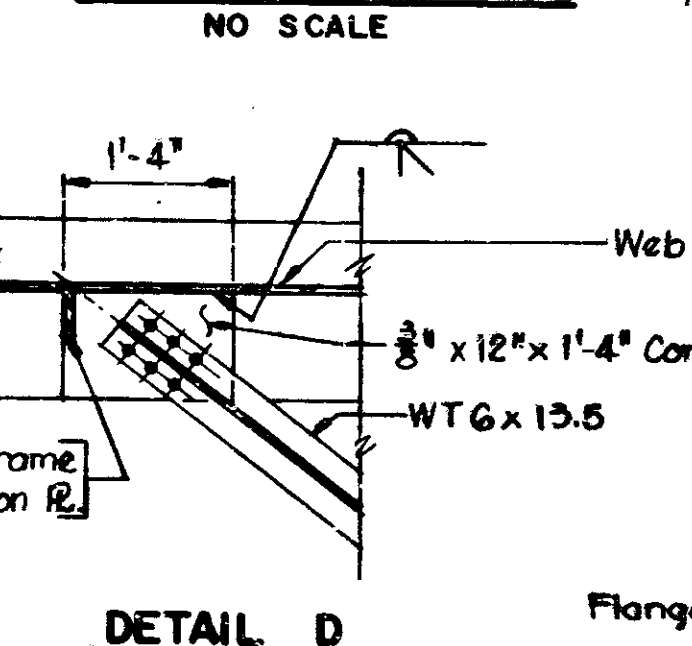
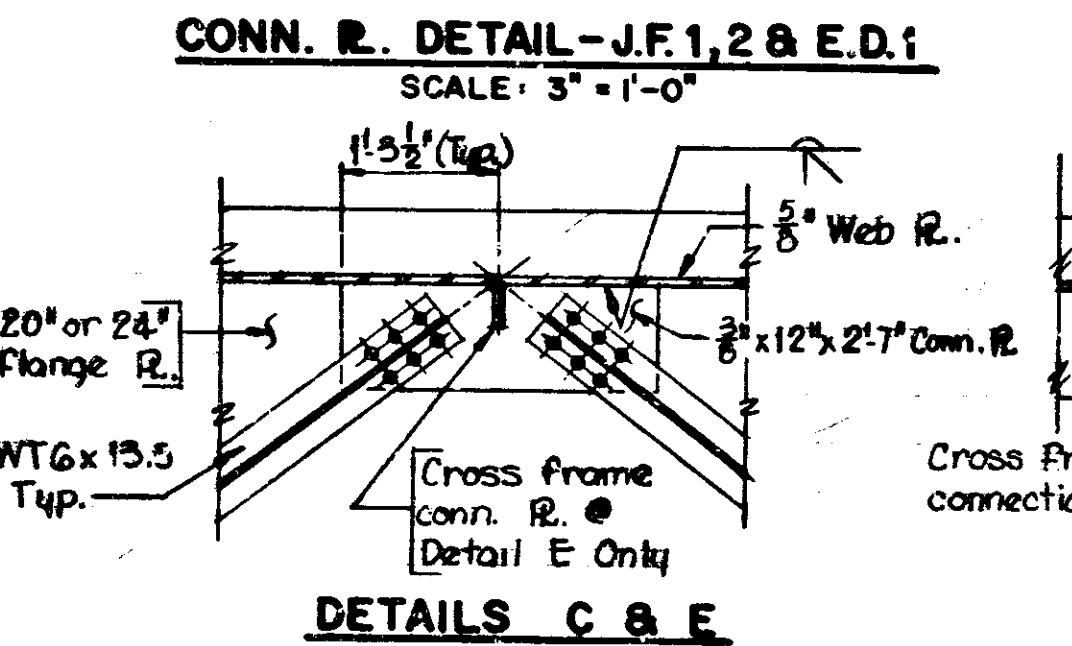
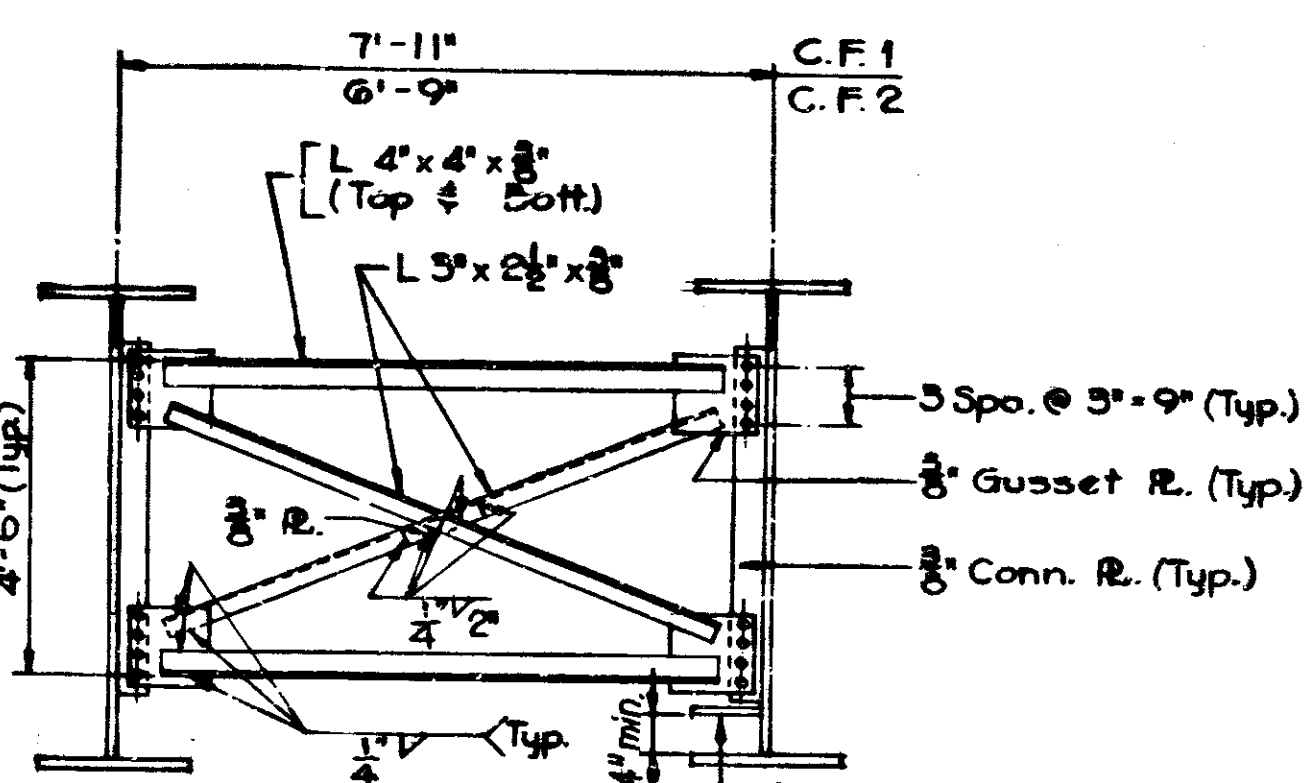
PROJECT NO.	DATE	BY	REVISION	FILE

BRIDGES OVER 20' SPAN				
FISCAL YEAR	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-65-3 (10611)	1971	10
			28	

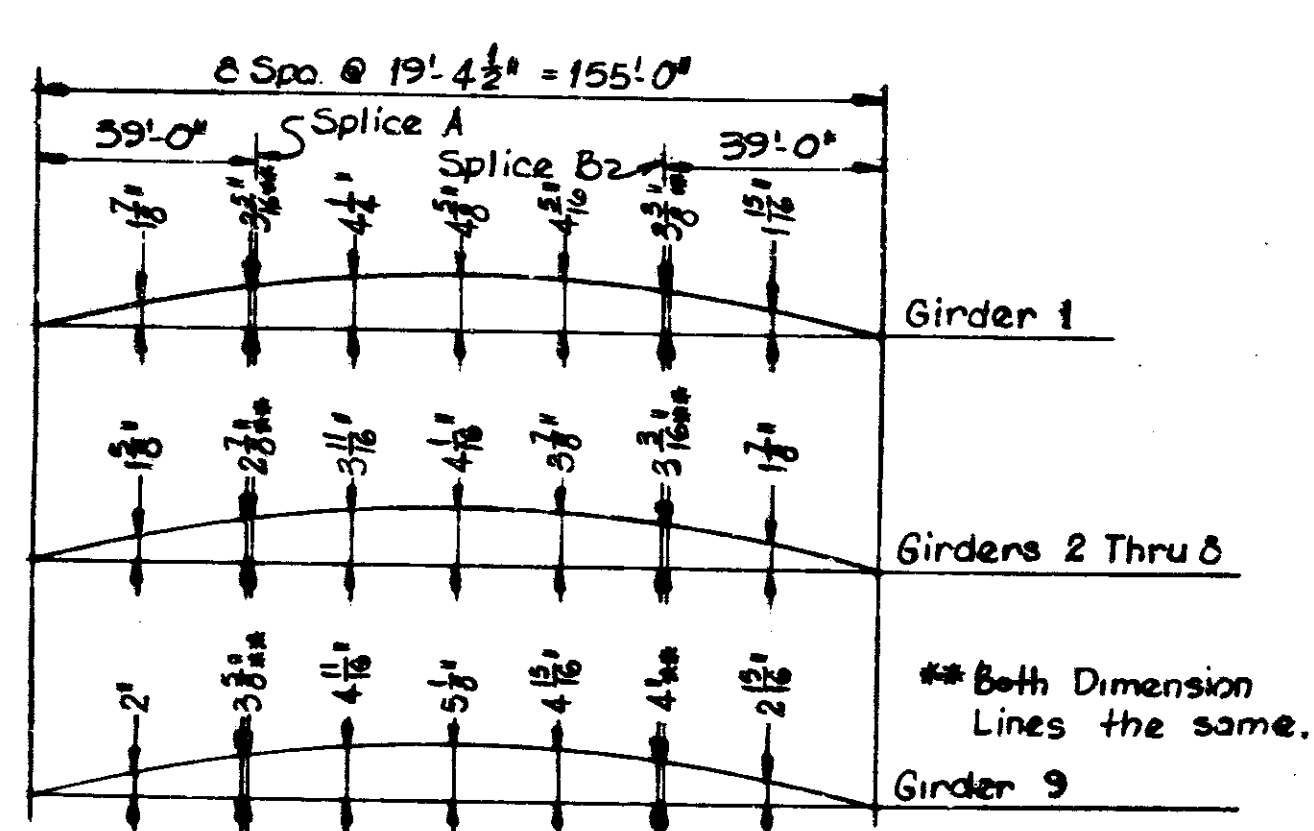


GIRDER NO.	SPLICE-A	SPLICE-B
1	729.230	728.775
2	729.235	728.780
3	729.310	728.855
4	729.355	728.900
5	729.370	728.915
6	729.285	728.850
7	729.165	728.705
8	729.020	728.555
9	728.965	728.485

Splice elevations are with falsework removed and carrying steel deadload only. Top of beam splice plates shall be adjusted to the above elevations before bolting field splices.



NOTES:
See Drawg. S2 for General Notes.
See Drawg. S7 for Design Data, Structural Steel Notes, Framing Plan, and Estimated Weight of Structural Stl.

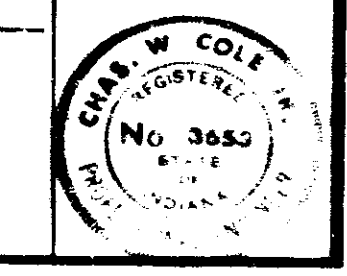


STEEL DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/4" = 1'-0" OR AS NOTED
JUNE 15, 1971

SUBMITTED FOR APPROVAL: *[Signature]*

DRAWING: S8 OF 14
PROJECT: I-65-3(10611)
CONTRACT NO: B-8877
BRIDGE FILE: I-65-111-5720



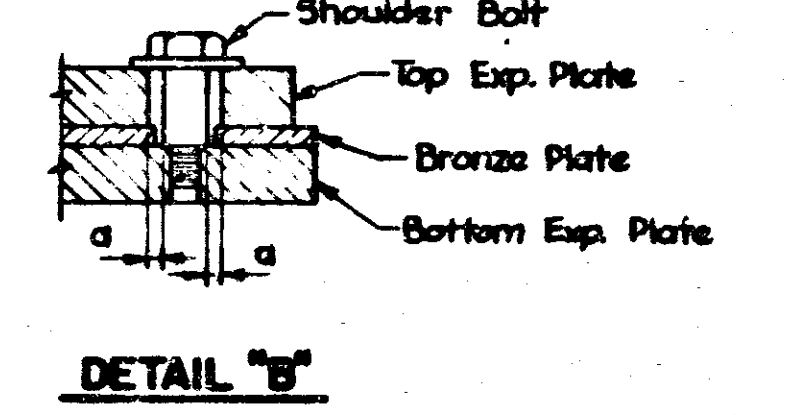
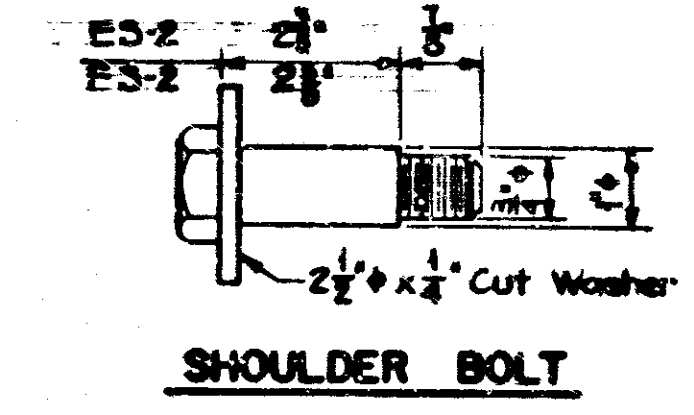
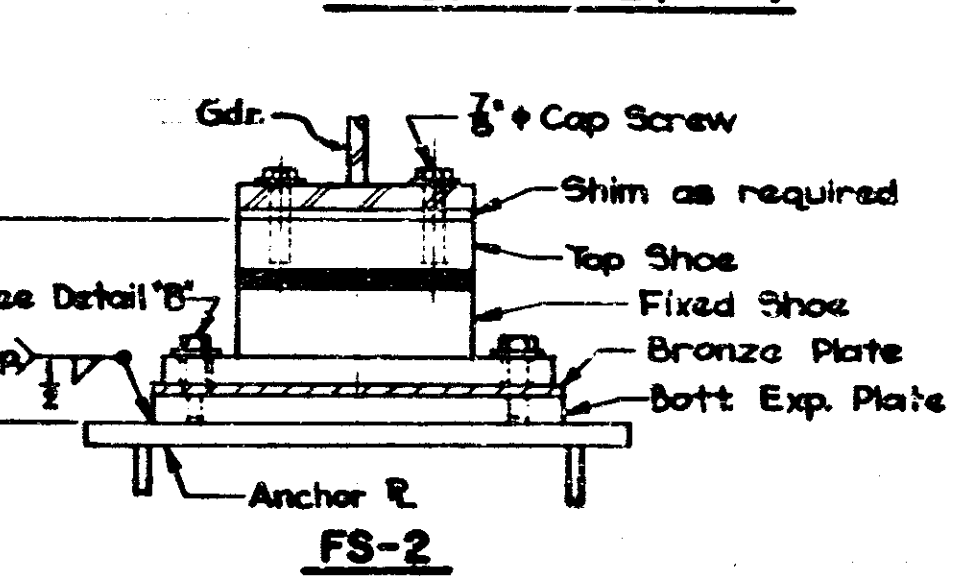
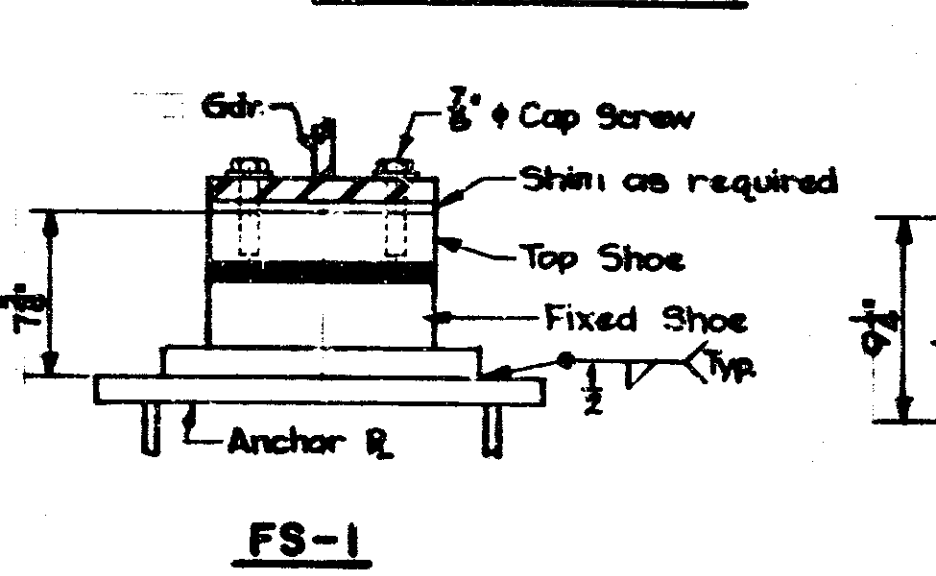
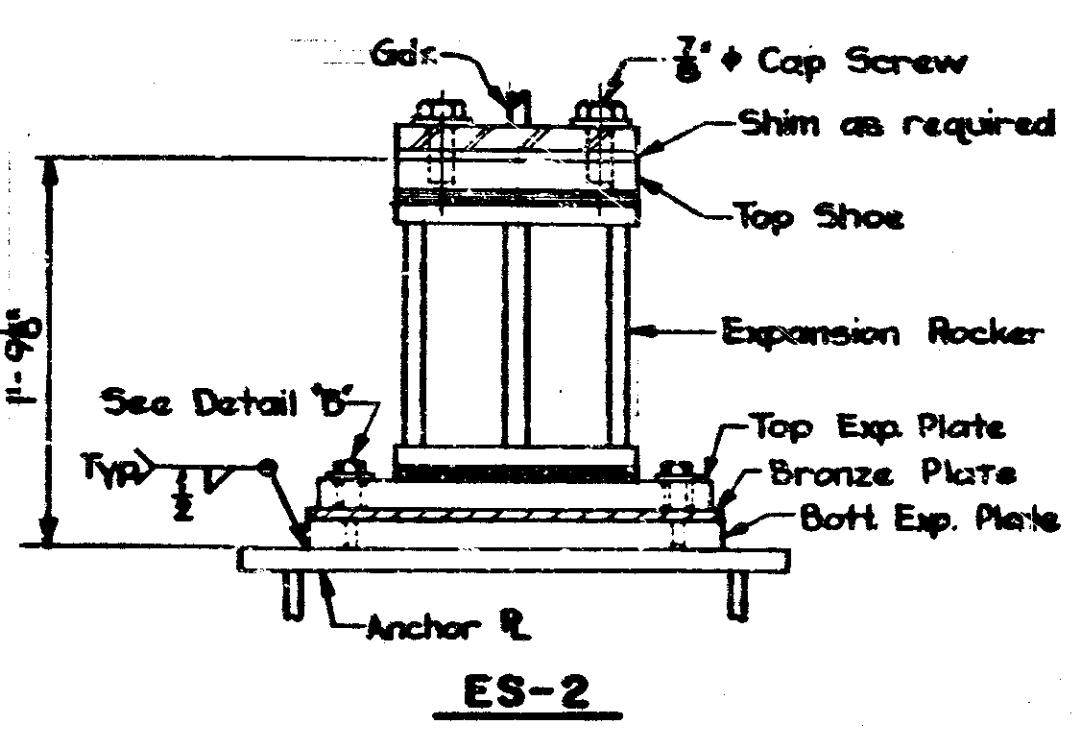
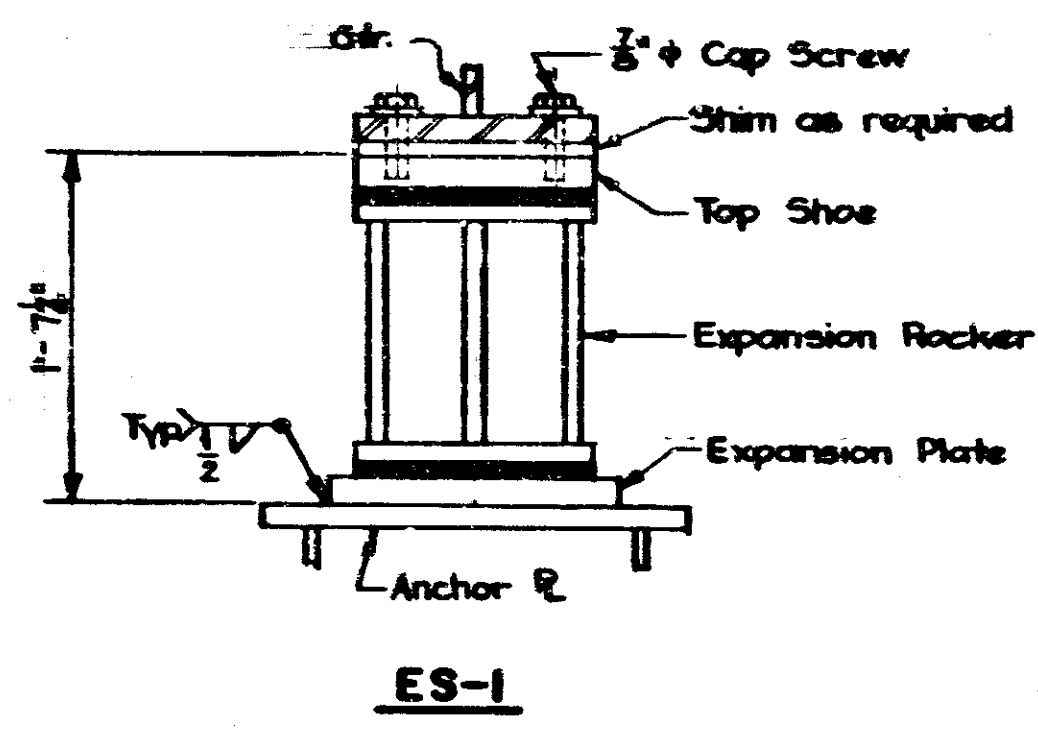
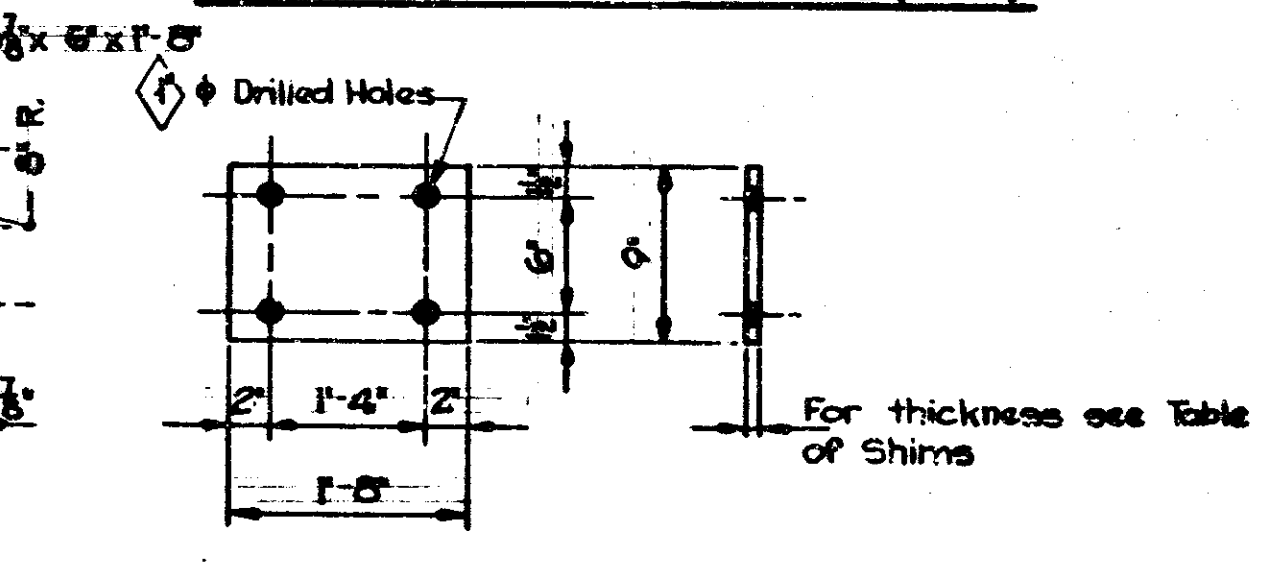
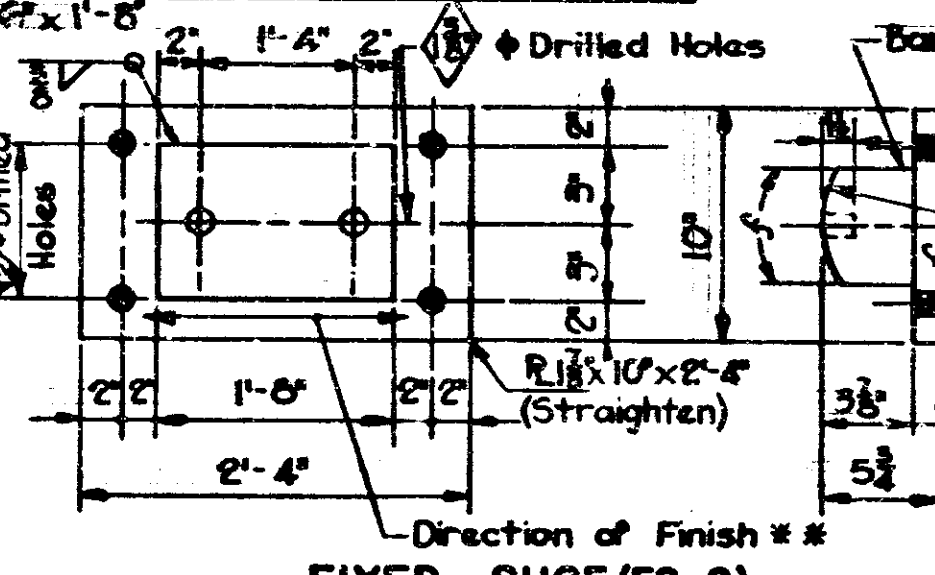
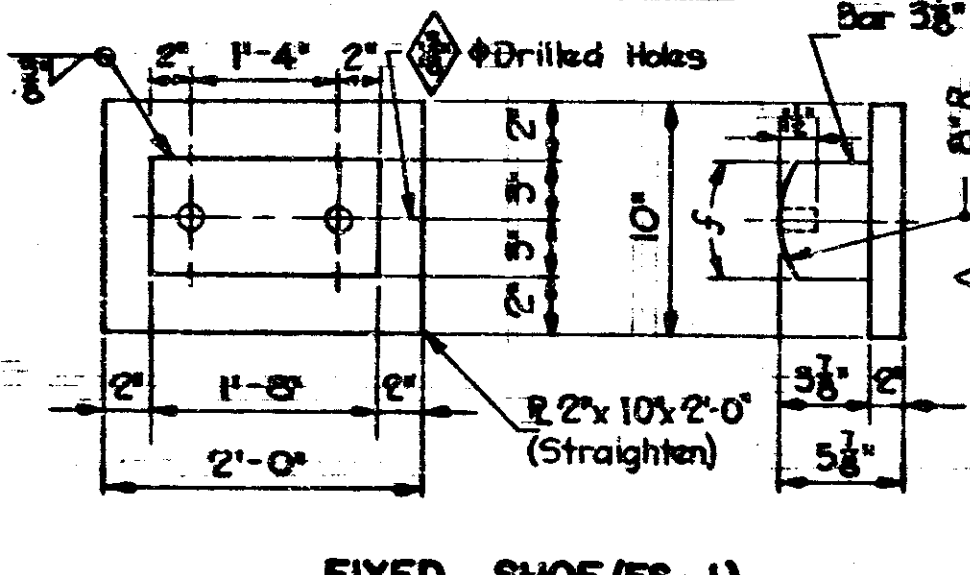
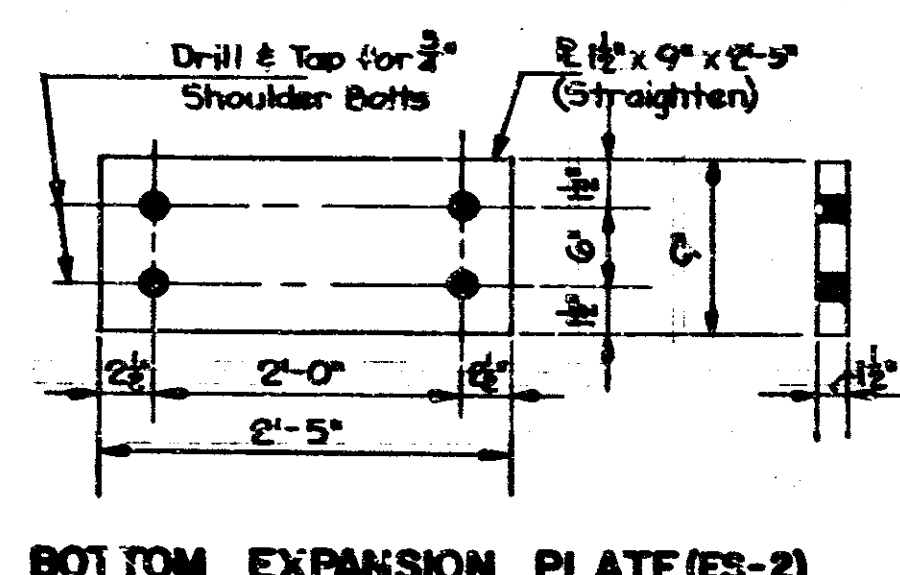
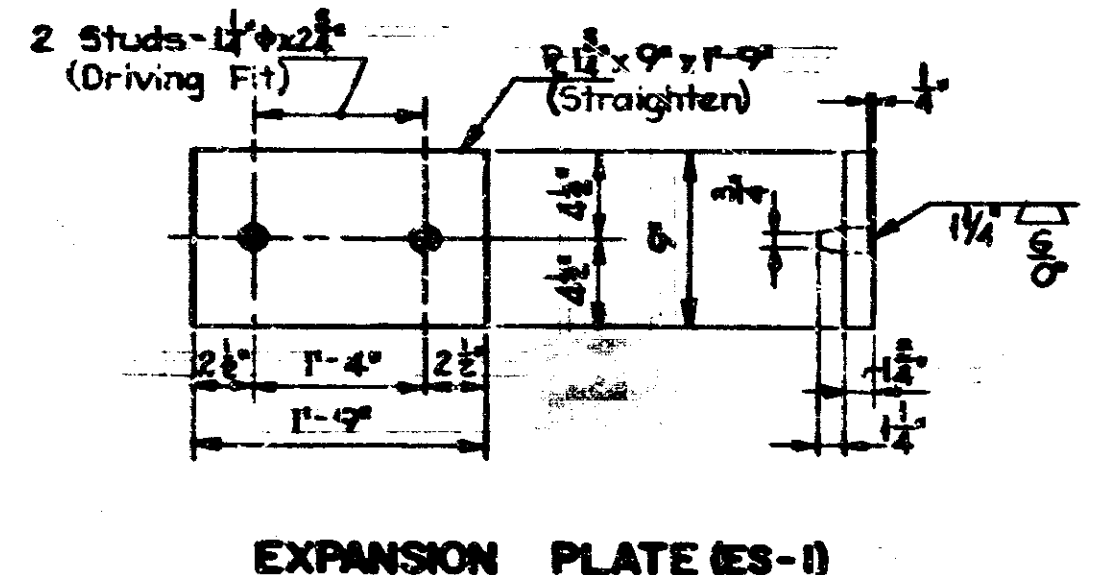
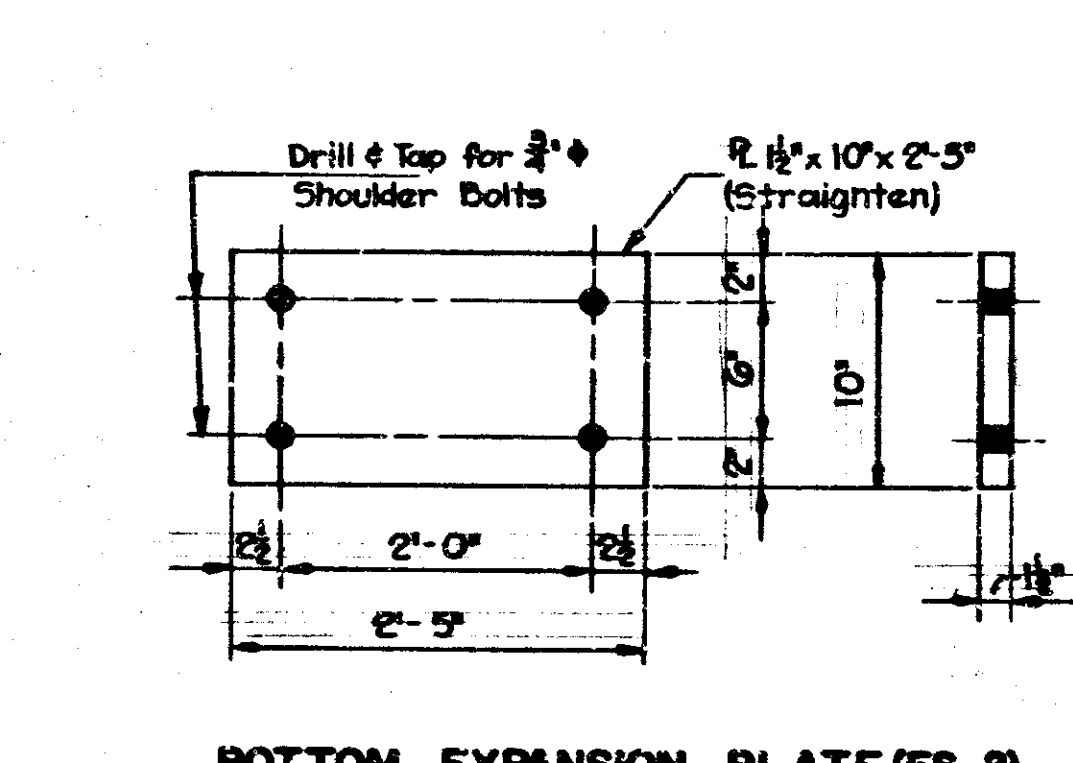
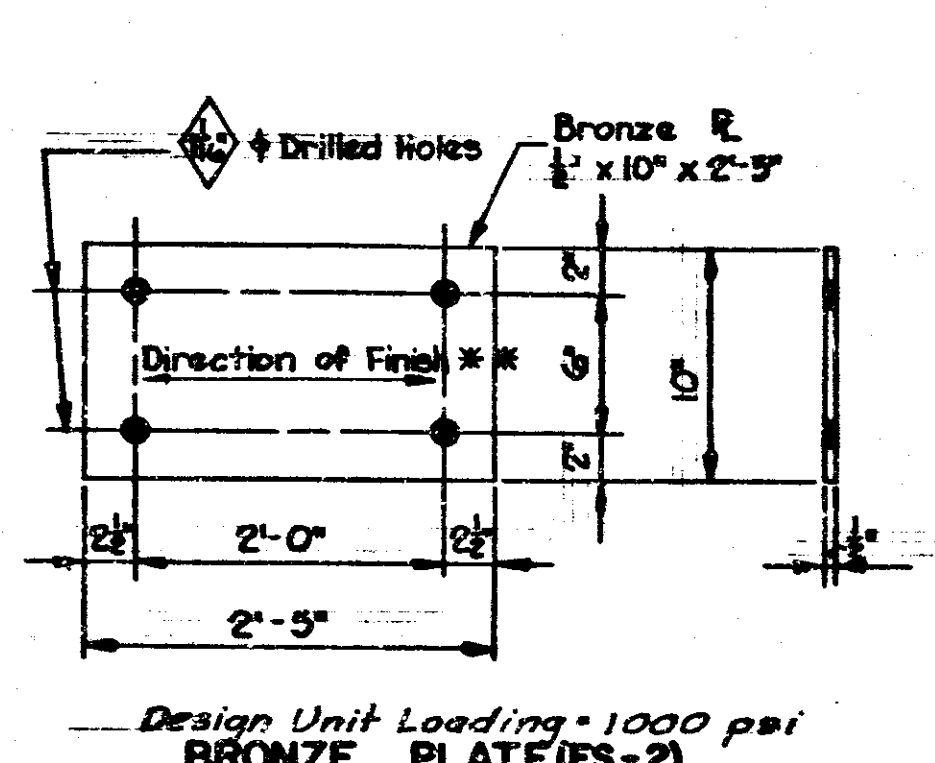
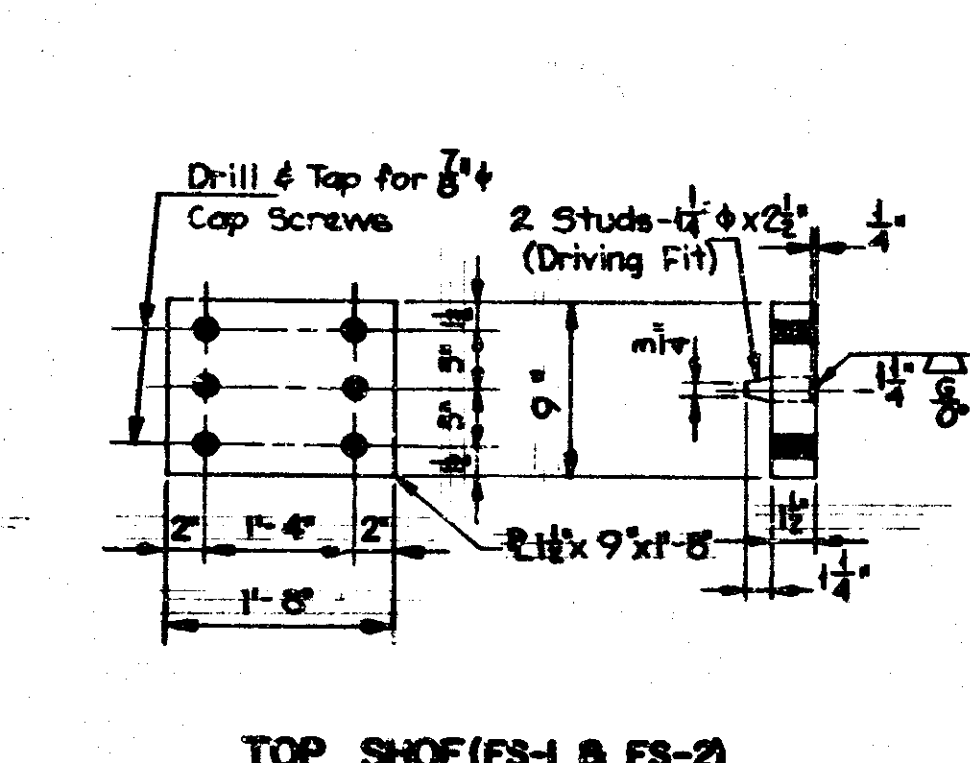
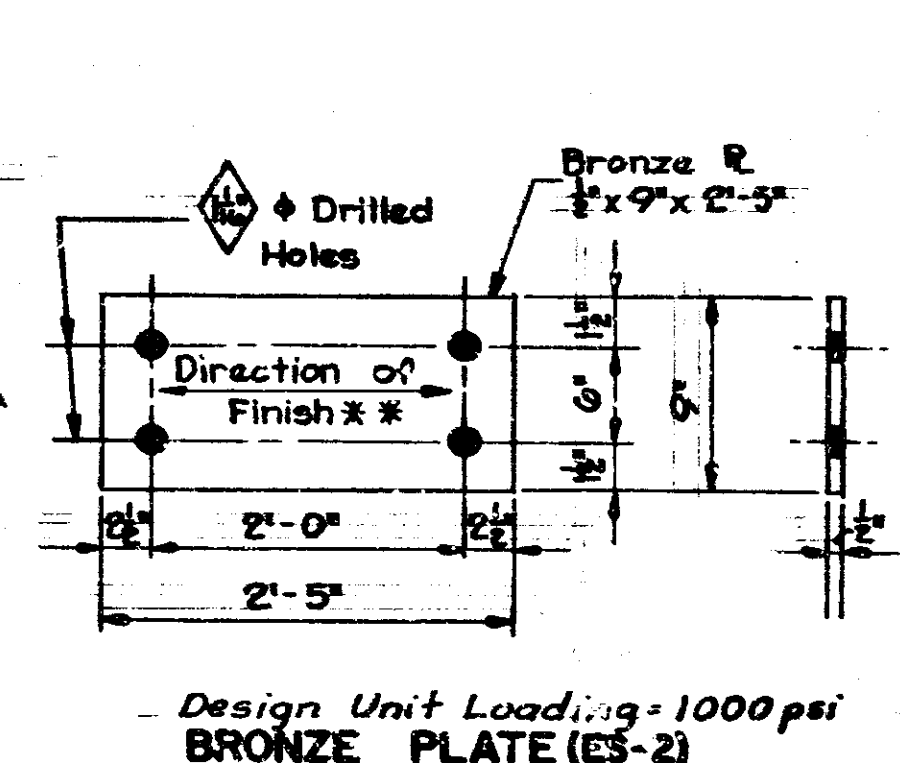
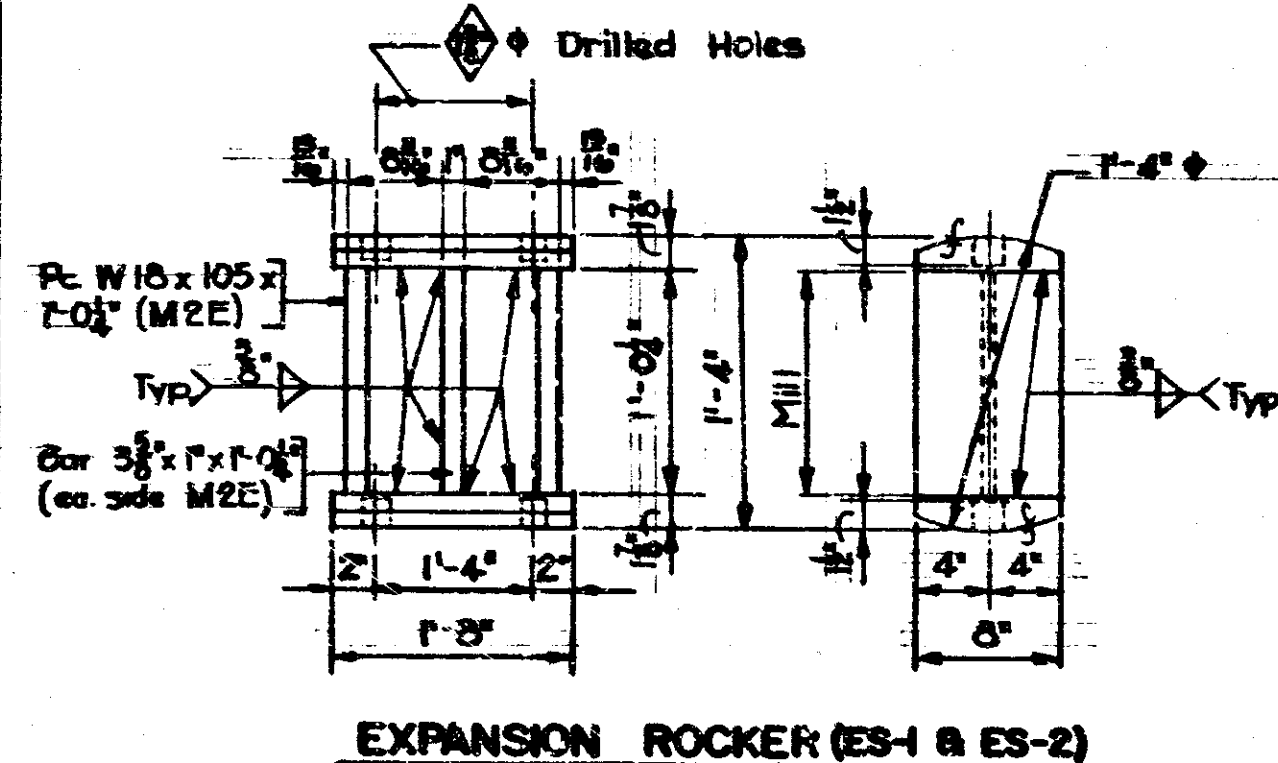
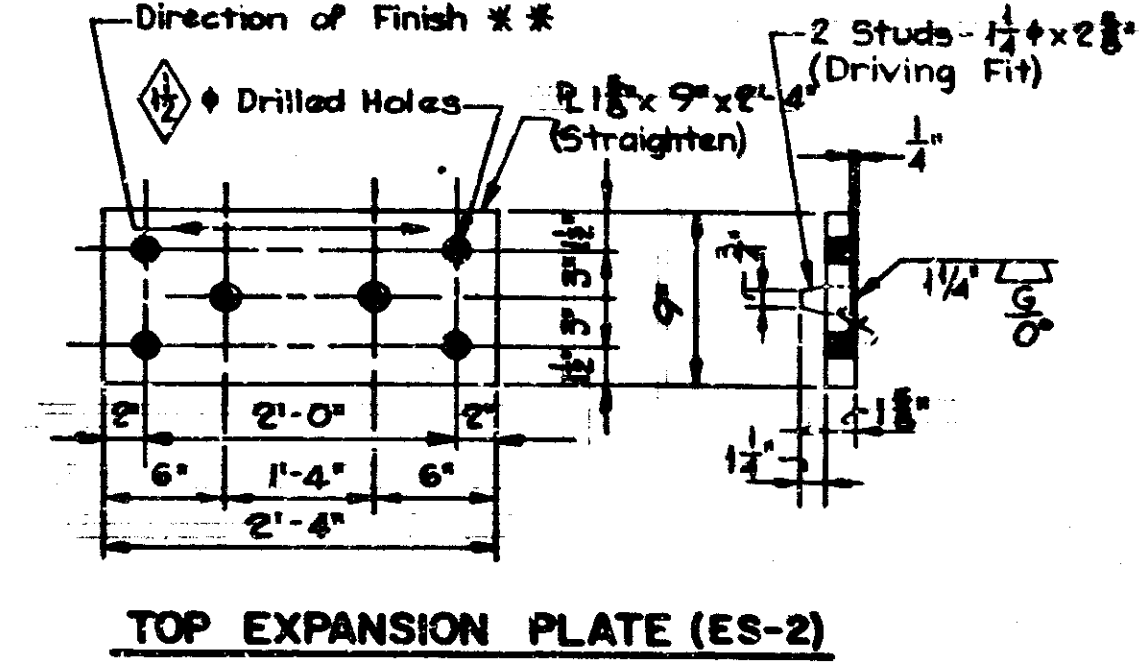
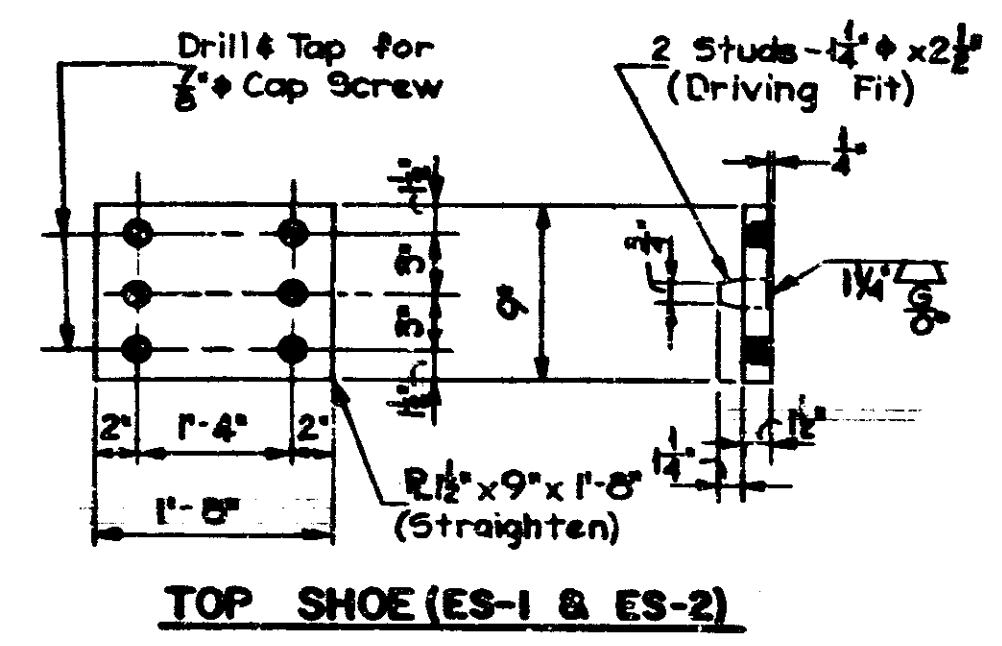
Rev. 12-29-72 of Weld on Stiffeners & Detail Material; Note under Table of Splice Elev. added

DESIGNED: EDM
DRAWN: EDM
CHECKED: CEL
TRACED: EDM

CAMBER DIAGRAMS
NO SCALE

BRIDGES OVER 20' SPAN					
FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3 (106)III	1971	11	28

SHIM THICKNESS TABLE									
GIRDER NO	1	2	3	4	5	6	7	8	9
ABUTMENT 1	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
ABUTMENT 2	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"



Notes:
 Curved surfaces of Shoes to be machined after weldments are completed.
 See Dwg. 5.2 for General Notes.
 All shoe assembly steel shall be A.S.T.M. A-36
 ** Indicates minimum finish to be 125 Micro-inch RMS.

STEEL DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: NONE
 JUNE 15, 1971

SUBMITTED FOR APPROVAL *Chapman*

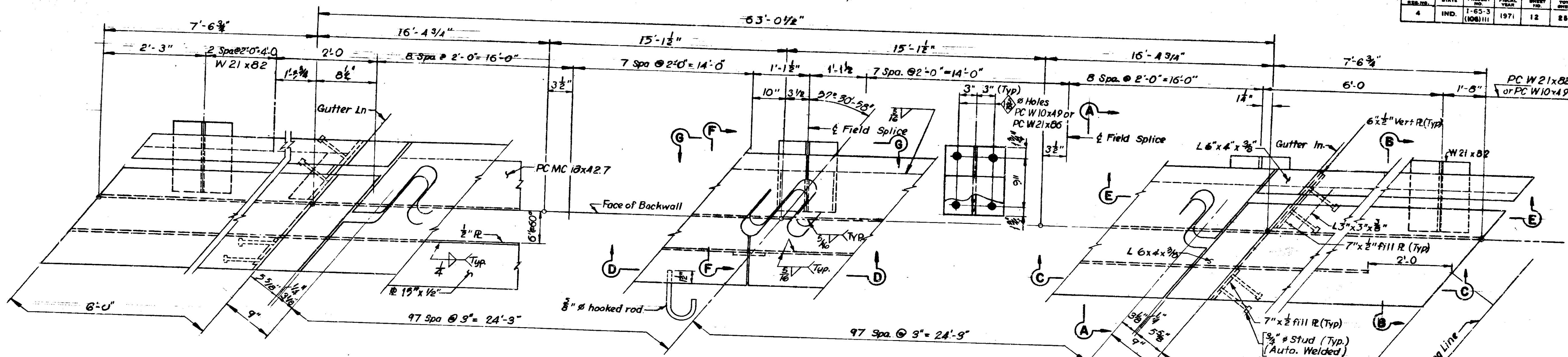
DRAWING: 89 OF 14
 PROJECT: I-65-3(106)III
 CONTRACT NO. B-8877
 BRIDGE FILE: I-65-III-5720



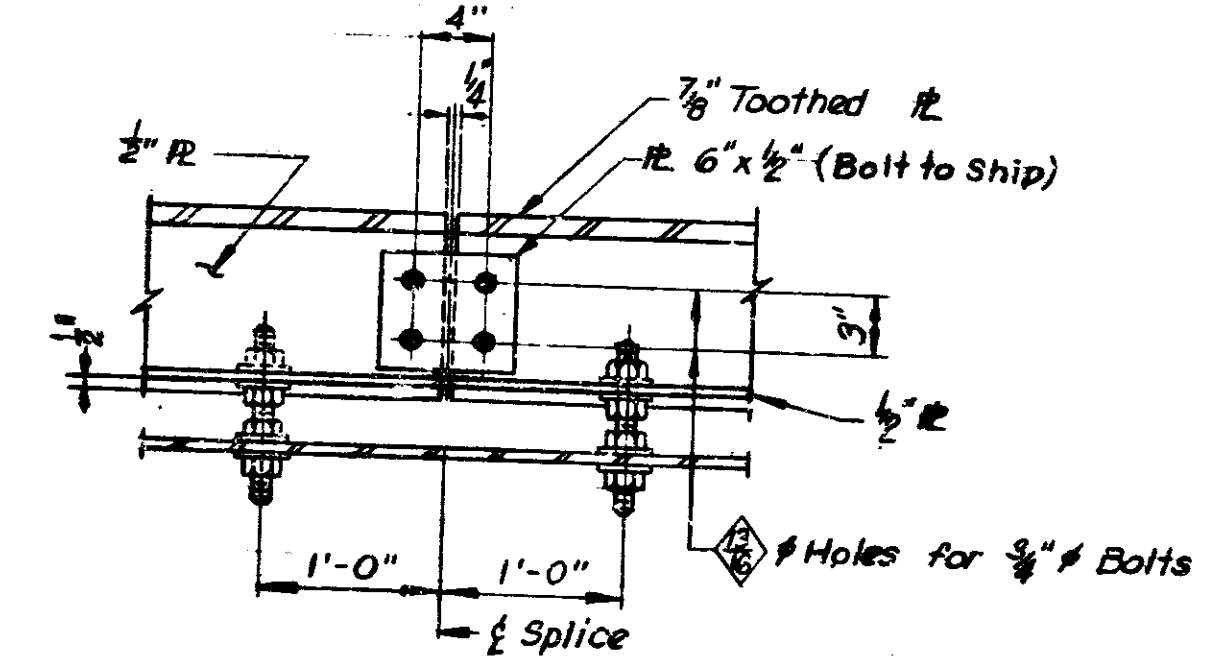
DESIGNED: CWS
 DRAWN: F.D.H.
 CHECKED: C.W.L.
 TRACED: CWS

PROJECT NO.	DATE	BY	REVISION	FILE

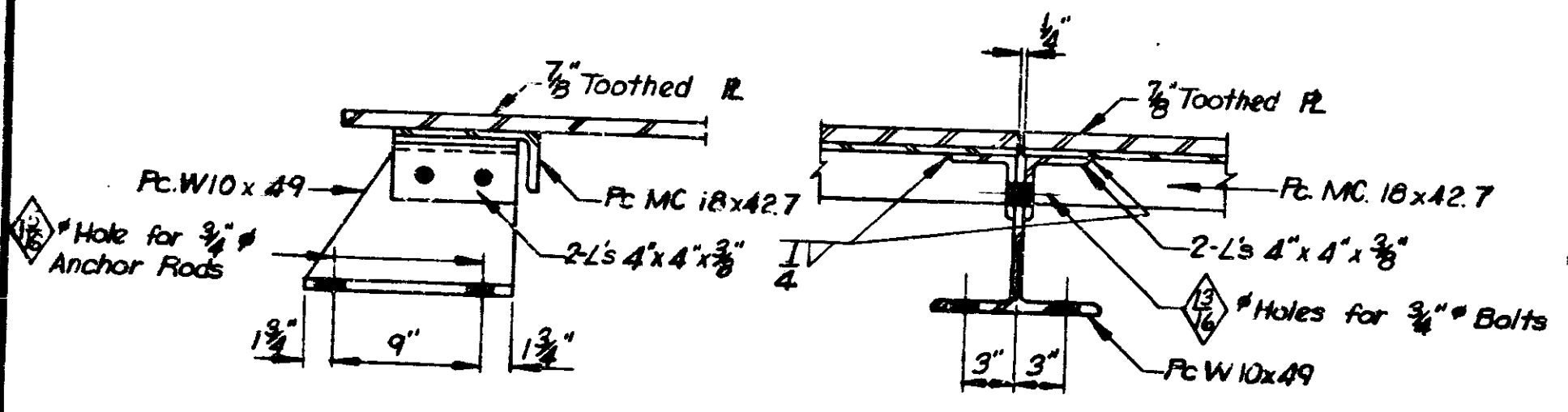
BRIDGES OVER 20' SPAN					
PUR. ROAD DISTRICT	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3 (106) III	1971	12	28



PLAN

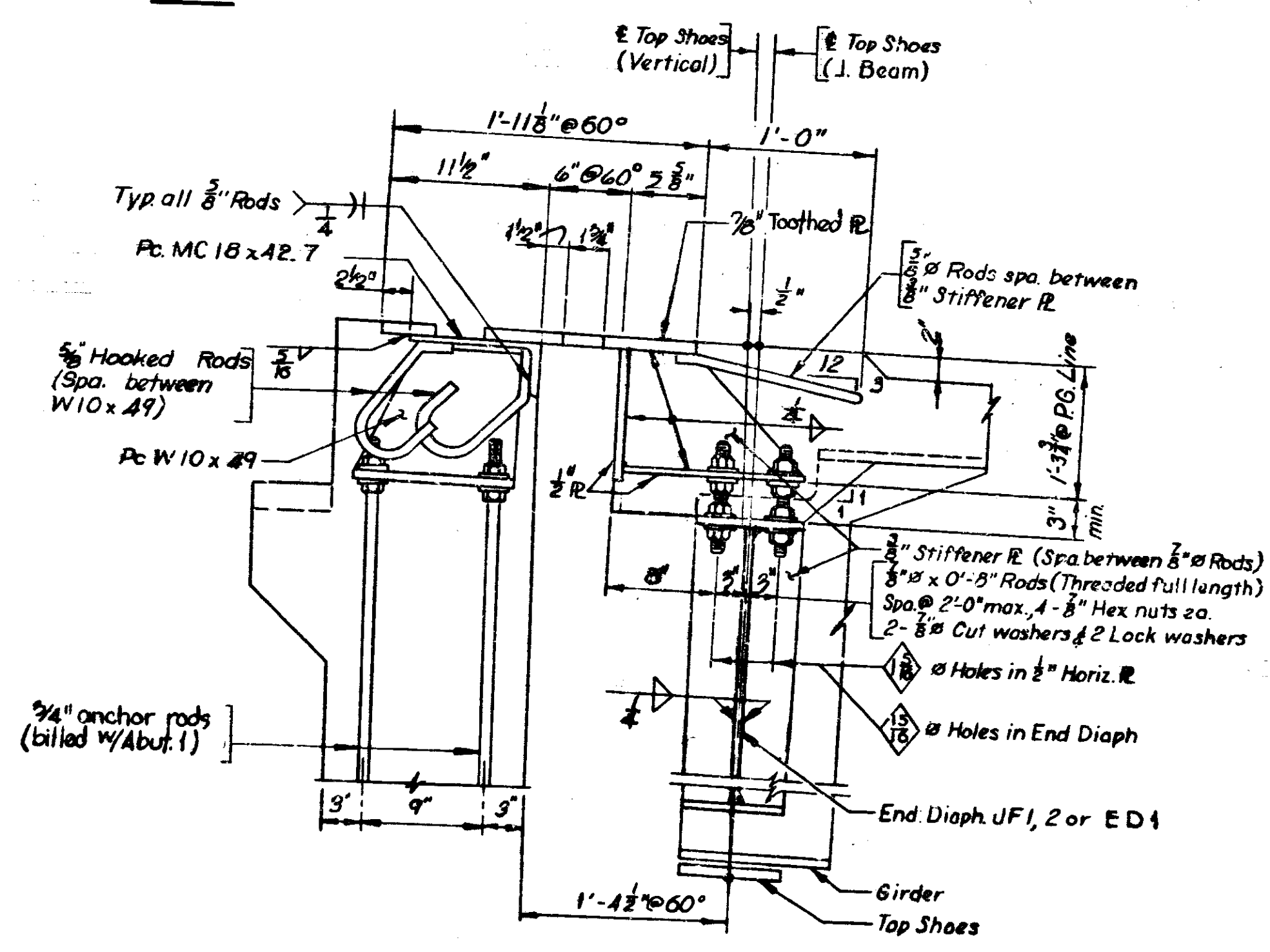


SECTION D-D



SECTION F-F

SECTION G-G



SECTION A-A

See Drwg. S14A for Overlay Details

NOTES

All dimensions to cuts are given to $\frac{1}{2}$ cut. See Specifications Art. 711.29 regarding burning of toothed plate. The toothed plates shall be marked to maintain the same relative position before & after cutting.
 For General Notes see Dwg. S2
 For Structural Steel Notes See Dwg. S7
 Estimated weight of toothed Exp. Jt. 19,900 Lbs.
 Expansion Joint Sections to be assembled in shop in their relative erected positions and inspected for correct field fit.
 Top of Expansion Joint to conform to roadway crown configuration.
 For Toothed Expansion Joint Setting Diagram, see Dwg. S14
 See Dwg. S11 for additional details.

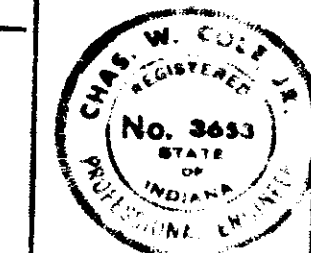
TOOTHED EXPANSION JOINT
 INDIANA STATE HIGHWAY COMMISSION

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

JUNE 15, 1971

SUBMITTED FOR APPROVAL: *[Signature]*

DRAWING: S 10 of 14
 PROJECT: I-65-3 (106) III
 CONTRACT NO. B-0077
 BRIDGE FILE: I-65-III-5720



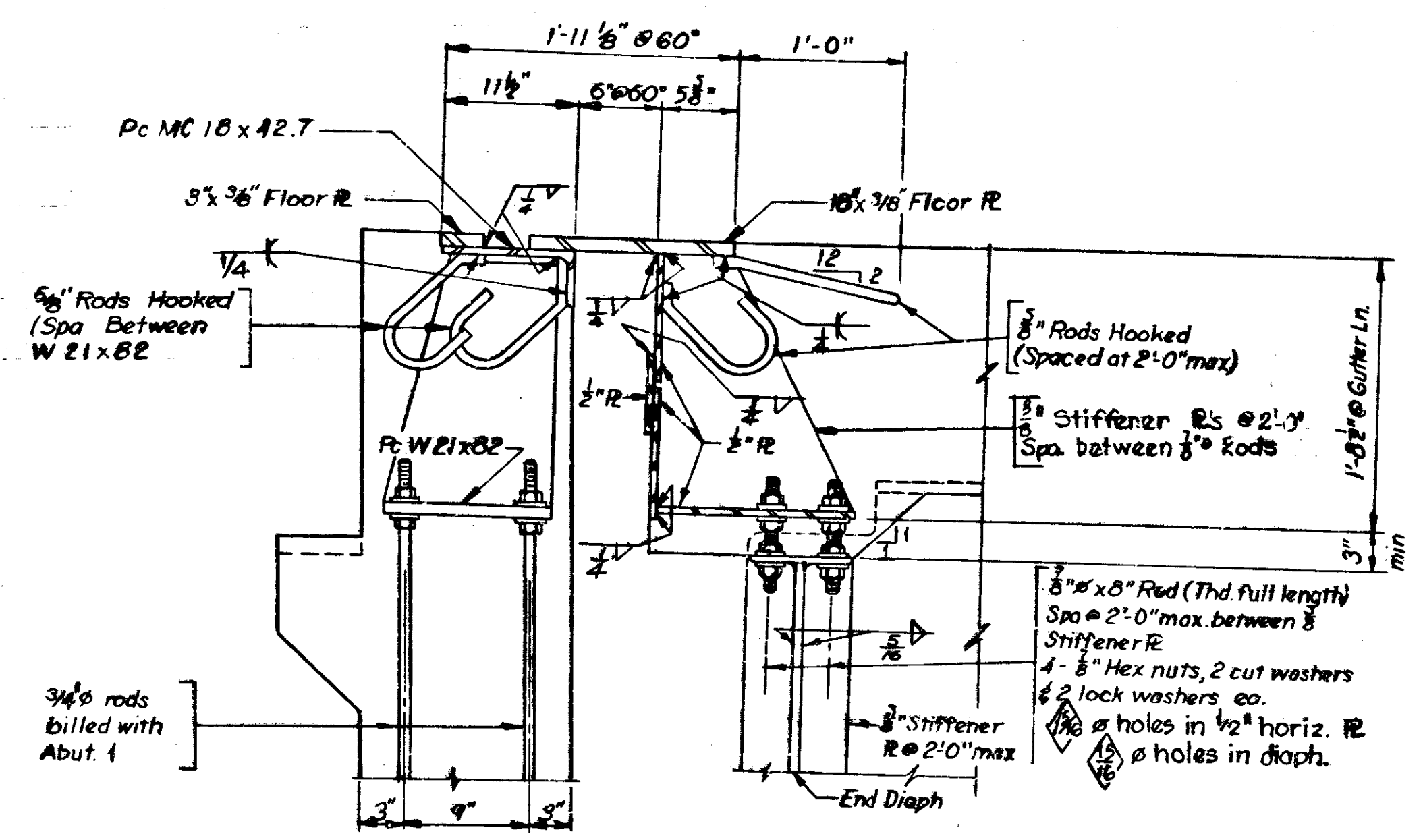
Rev. 12-29-72 Welds & Notes
 Rev. 8-3-73 Section A-A

REV. 12-29-72 TEC CLK CHM
 REV. 8-3-73 JCH, CAN. CHA:EB

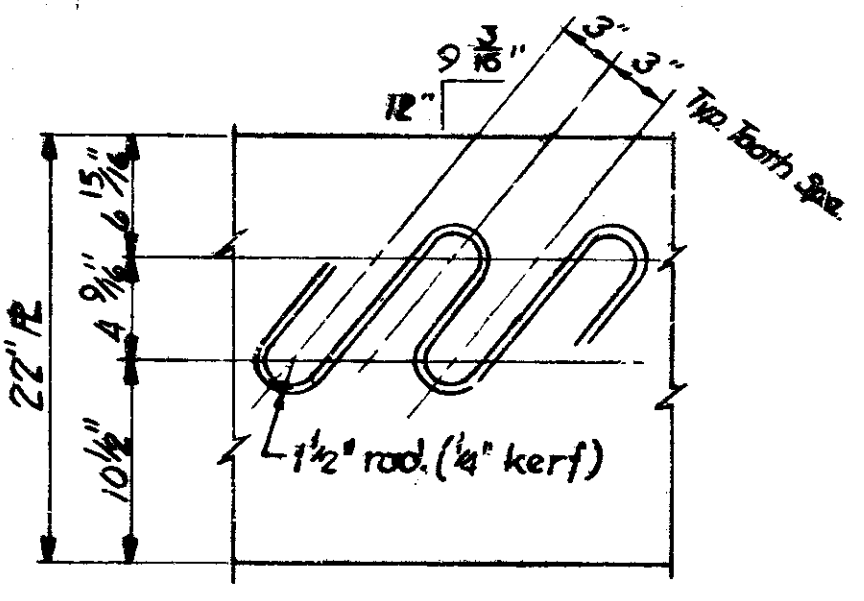
DESIGNED	CKD
DRAWN	CH
TRACED	CKD
	CEL

PROJECT NO.	LINE	DATE	FILE

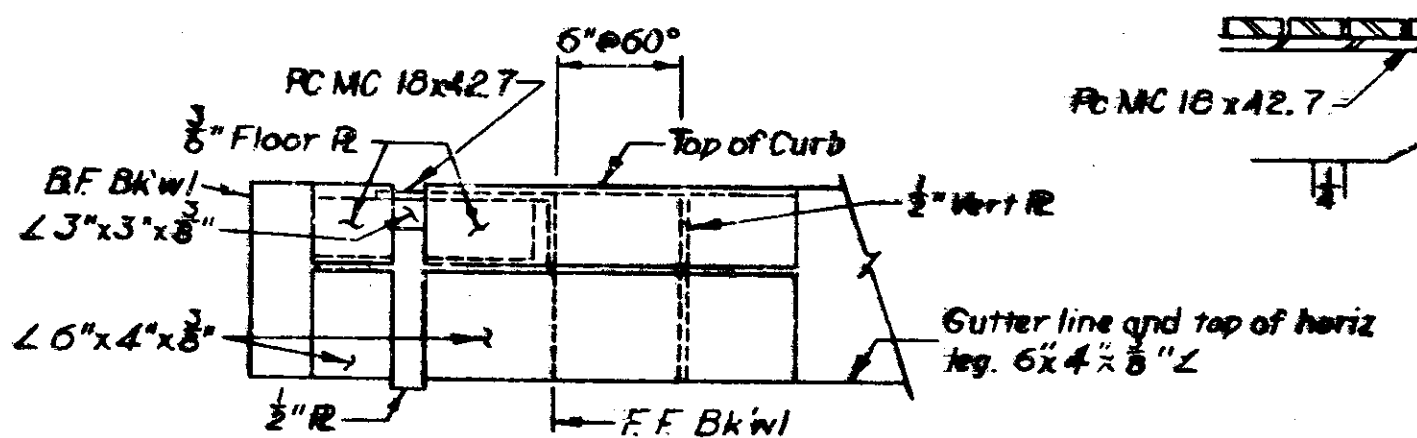
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-65-3 (106) III	1971	13	26



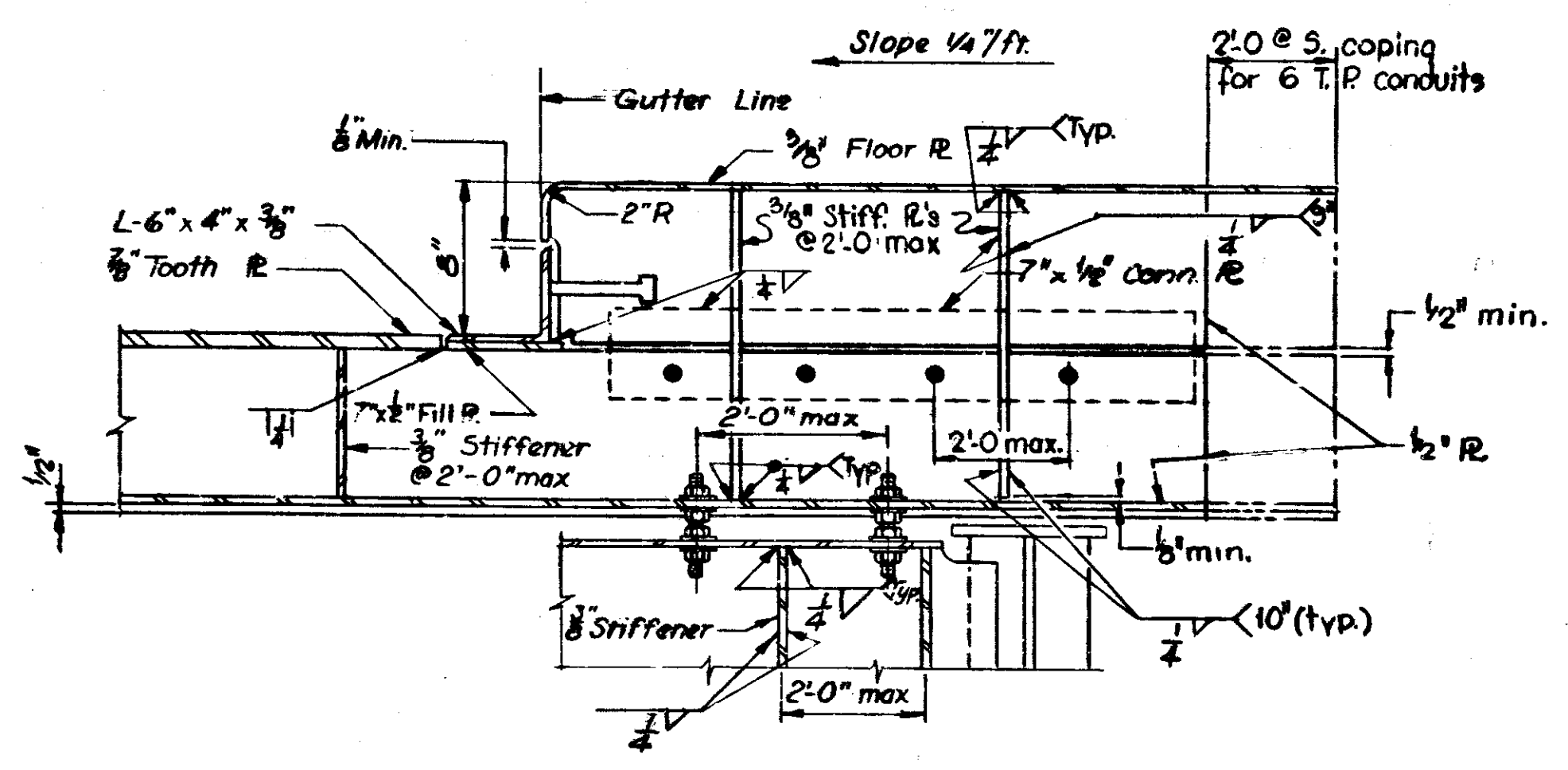
SECTION B-B



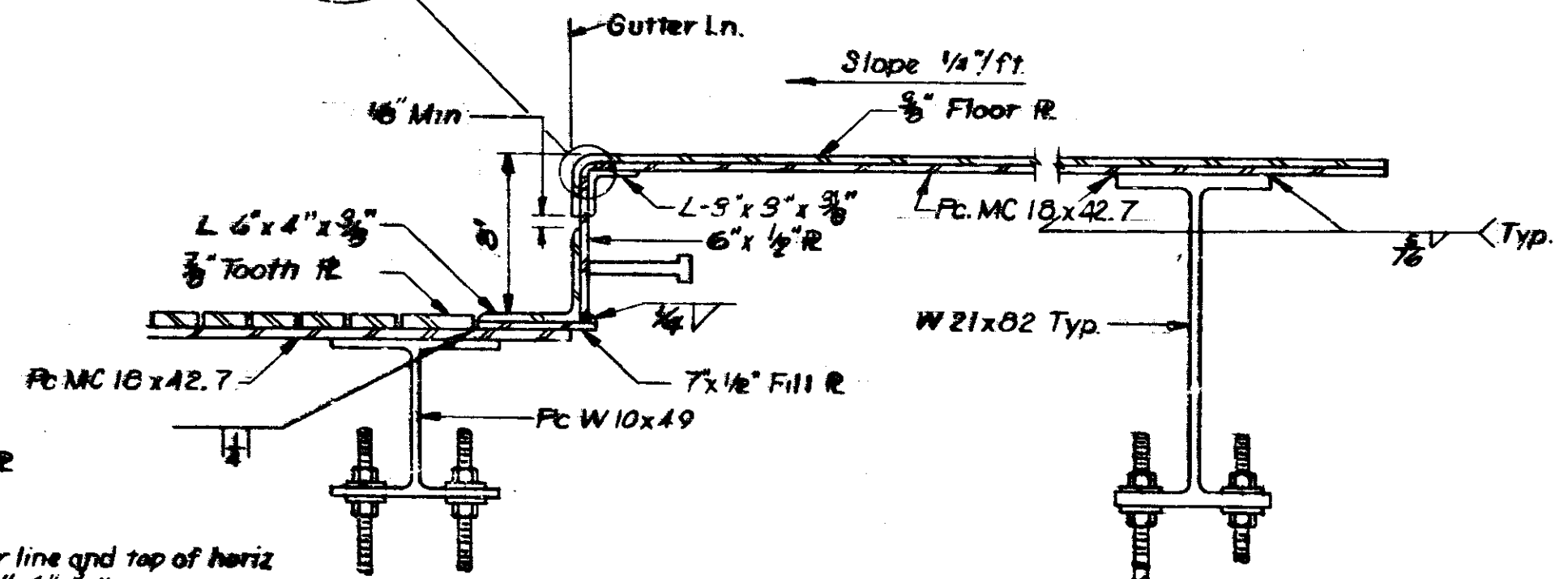
TOOTH CUTTING DETAIL



CURB ELEVATION AT END OF EXPANSION JOINT



SECTION C-C



SECTION E-E

NOTE
See Dwg. 32 for General Notes.
See Dwg. 310 for Notes & Additional Details

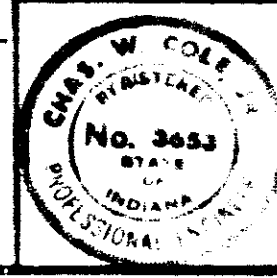
See Dwg. 314A for Overlay Details

TOOTHED EXPANSION JOINT DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1 1/2" = 1'-0" JUNE 15, 1971

SUBMITTED FOR APPROVAL: *[Signature]*

DRAWING: S11 OF 14
PROJECT: 1-65-3 (106) III
CONTRACT NO. 6-6577
BRIDGE FILE: 1-65-111-5720

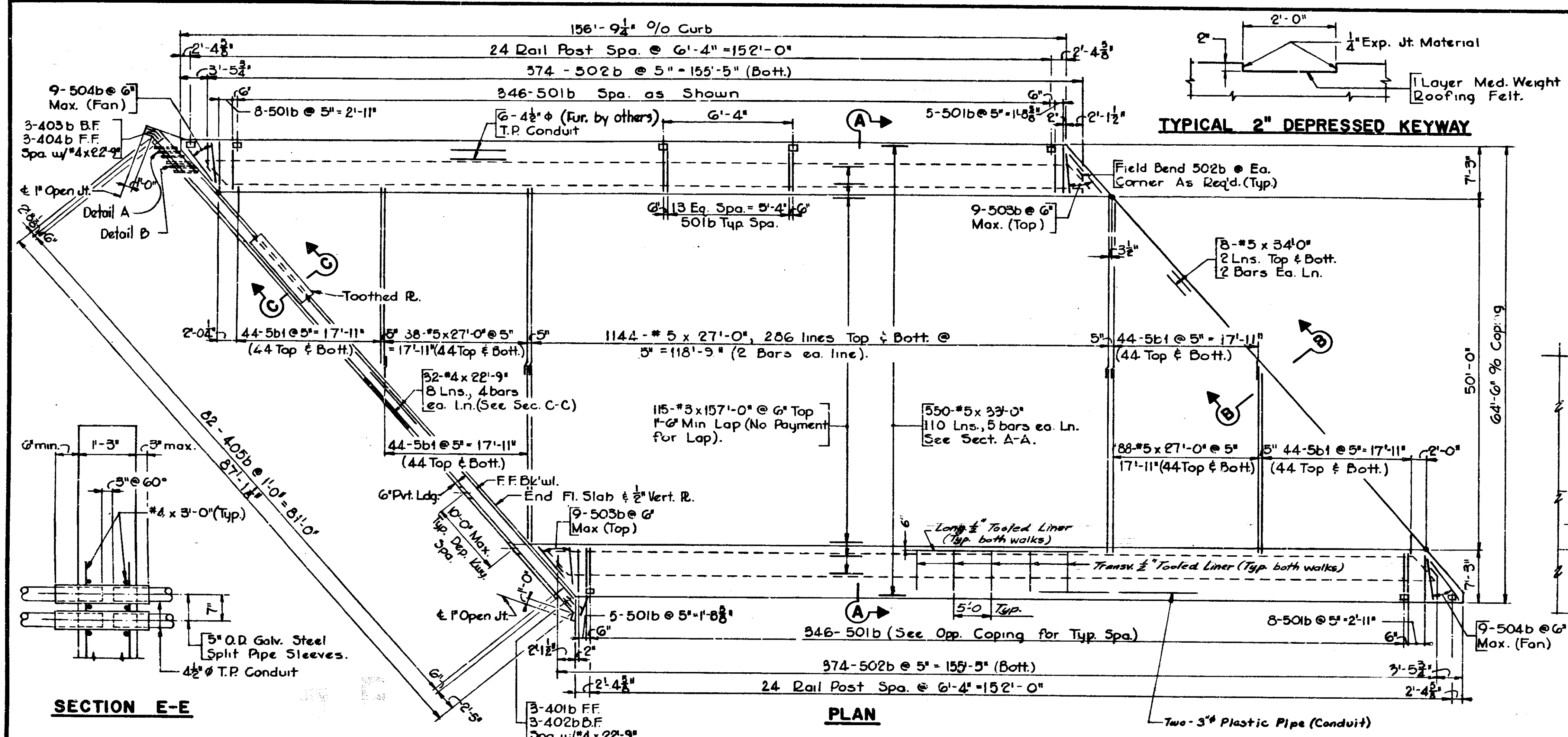


DESIGNED	CKD
DRAWN	DEL
TRACED	CKD

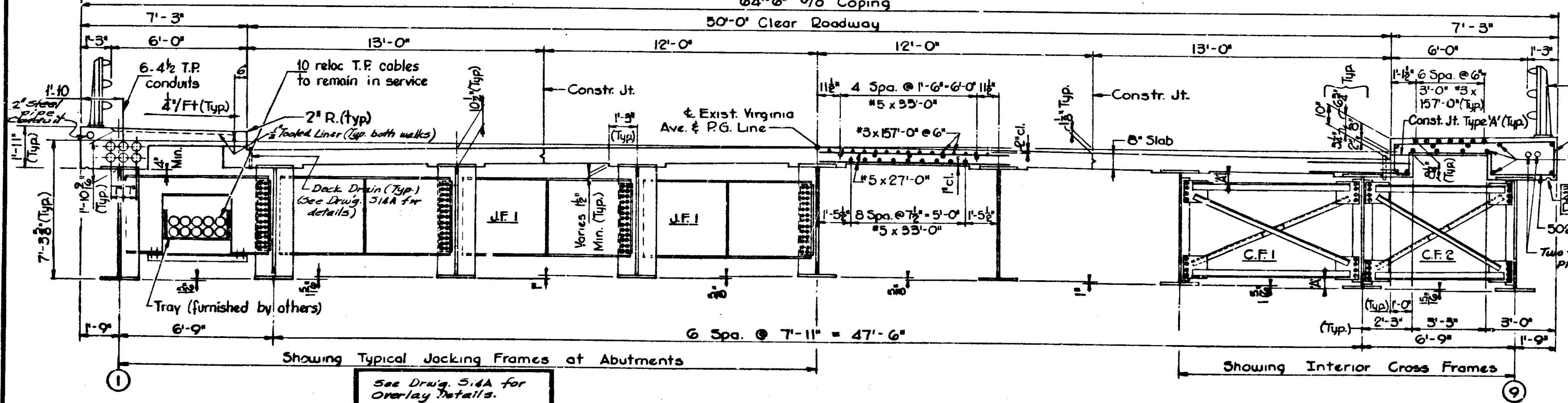
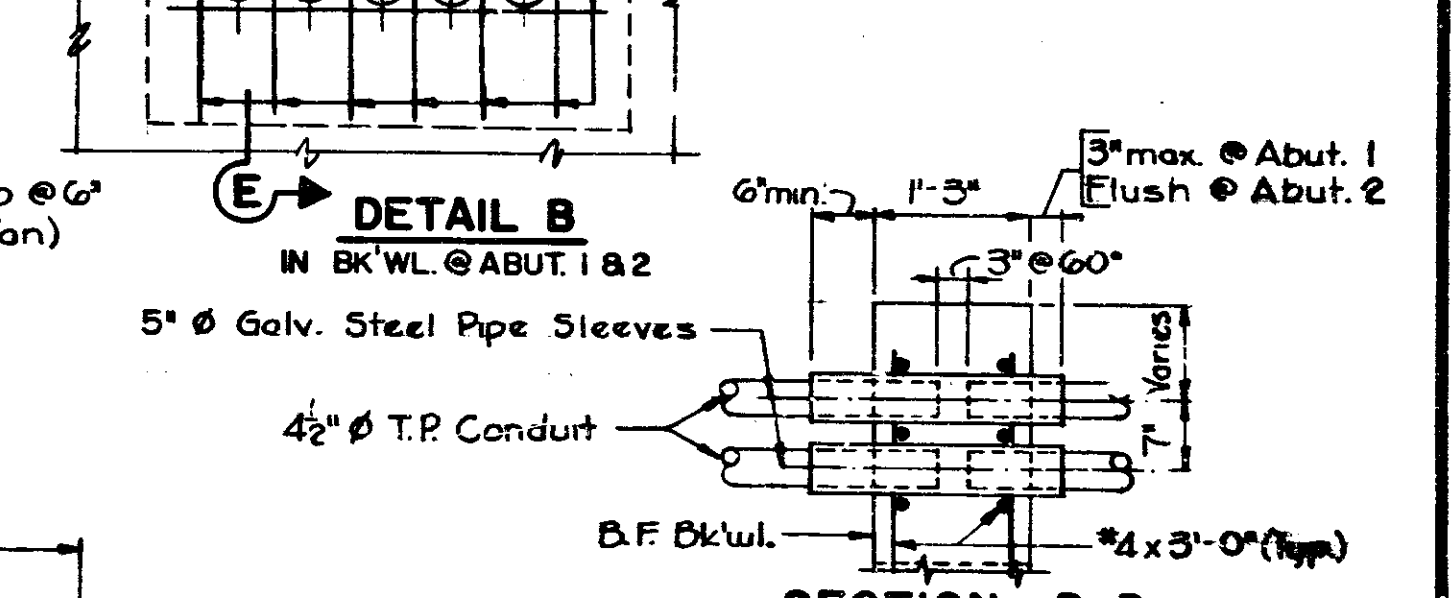
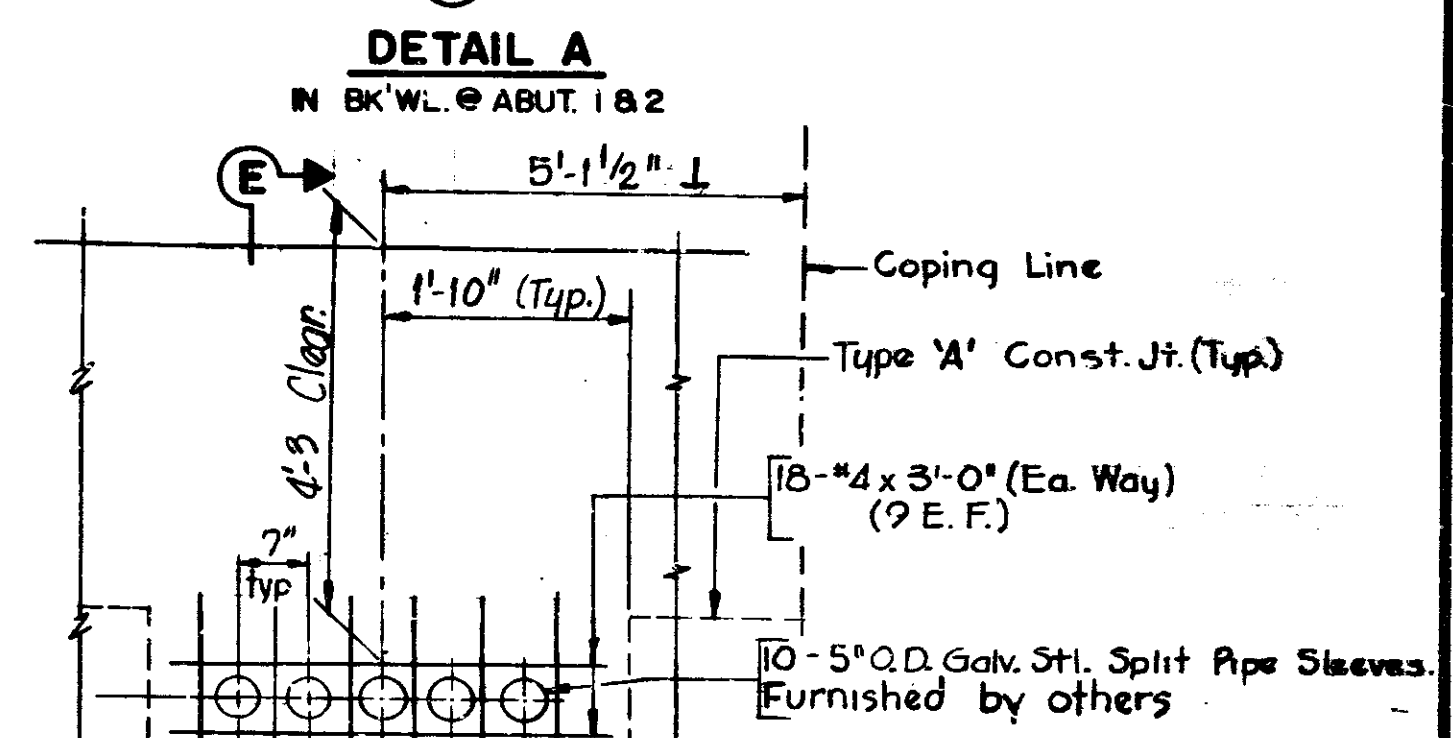
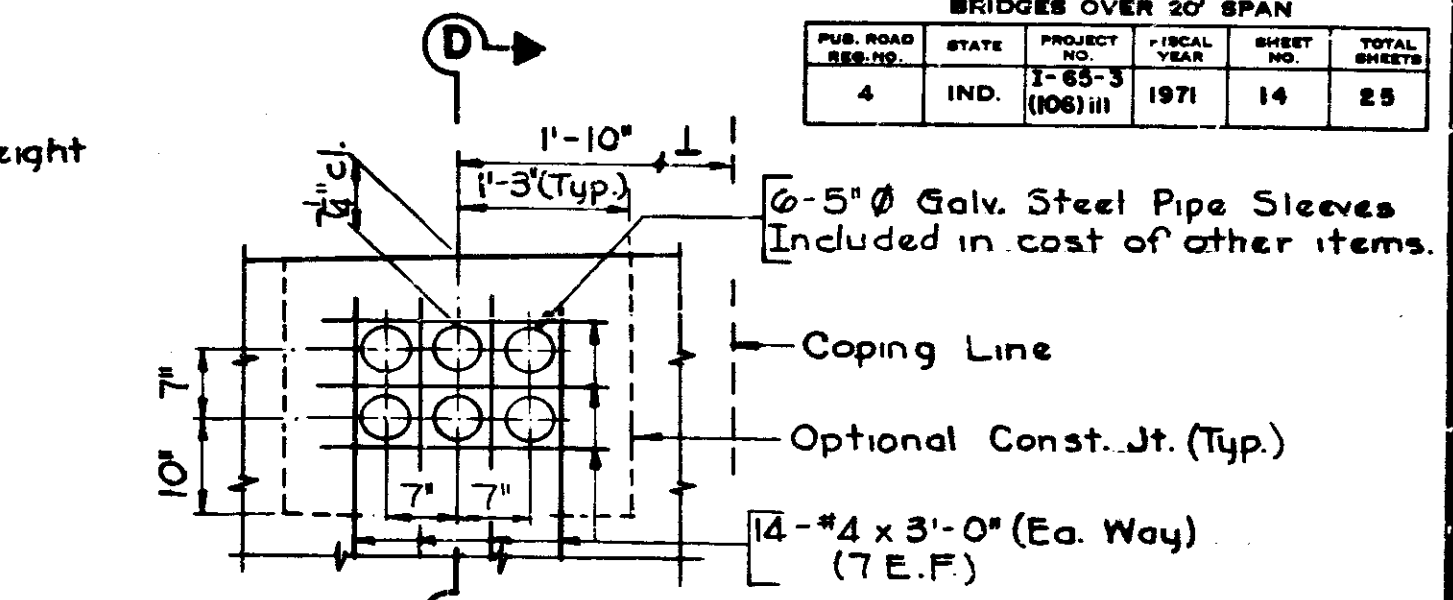
Rev. 12-29-72 Welds
Rev. 8-5-73 Sections B-B, C-C & E-E

Rev. 12-29-72 TEC C.A. CHM
Rev. 8-5-73 J.L.M., C.A.N., G.L. S.D.

BRIDGES OVER 30' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-65-3 (106) III	1971	14	25



TYPICAL 2" DEPRESSED KEYWAY



NOTES:

See Dwg. 52 for General Plan.
 See Dwg. 519 for Sec. B-B, Sec. C-C, Corner Details, Drainage Details.
 See Bridge Std. C1 for Reinforcing Bar Notes.
 See Bridge Std. B21 & B22 for Alum. Railing Type 6.
 See Bridge Std. B23 & B24 for Steel Railing Type D.
 See Dwg. 514 for Bill of Materials, General Procedure and Misc. Details.
 Welded Deformed Steel Wire Fabric may be used in place of #3 bars in top of slab.
 After structural steel has been erected, conc. forms shall not be blocked against the expansion end of the steel in making any pours adjacent to steel spans.
 See Dwg. 52 for location of Light Standard

FLOOR DETAILS
INDIANA STATE HIGHWAY COMMISSION

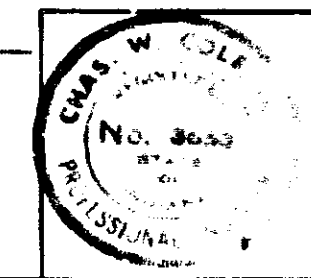
SCALE: 1/8", 3/8" & 3/4" = 1'-0"

JUNE 15, 1971

SUBMITTED FOR APPROVAL: *[Signature]*

DESIGNED: EDM CRO CEL
 DRAWN: EDM CRO CEL
 TRACED: CRO CRO

DRAWING: S 12 OF 14
 PROJECT: I-65-3(106) III
 CONTRACT NO. B-6577
 BRIDGE FILE: I-65-III-5720



Rev. 2-23-72 AWM
 Rev. 12-22-71 E.B. Cinc J.J.W.
 Rev. 8-5-75 J.M.CAL. chf.EB.

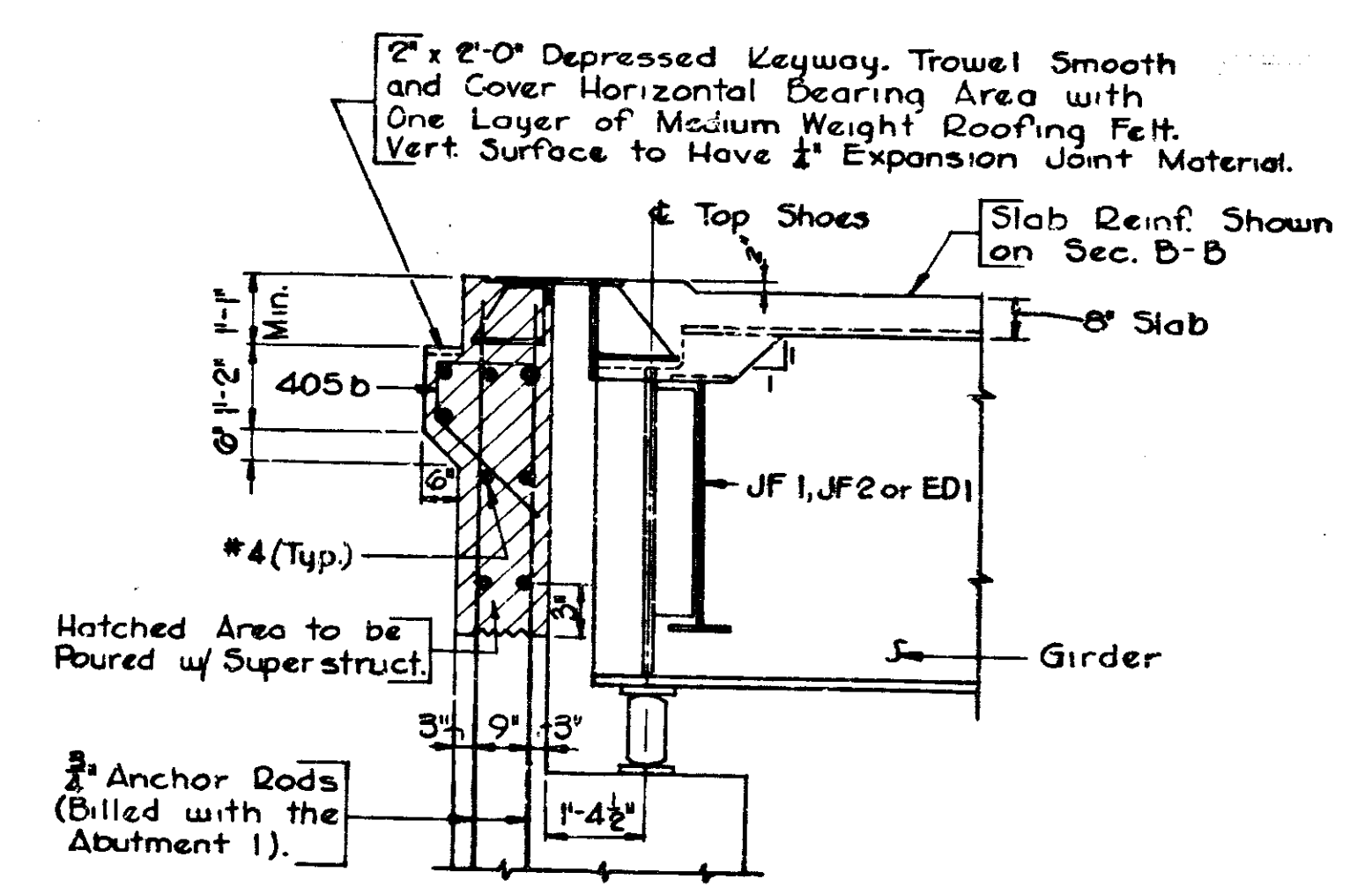
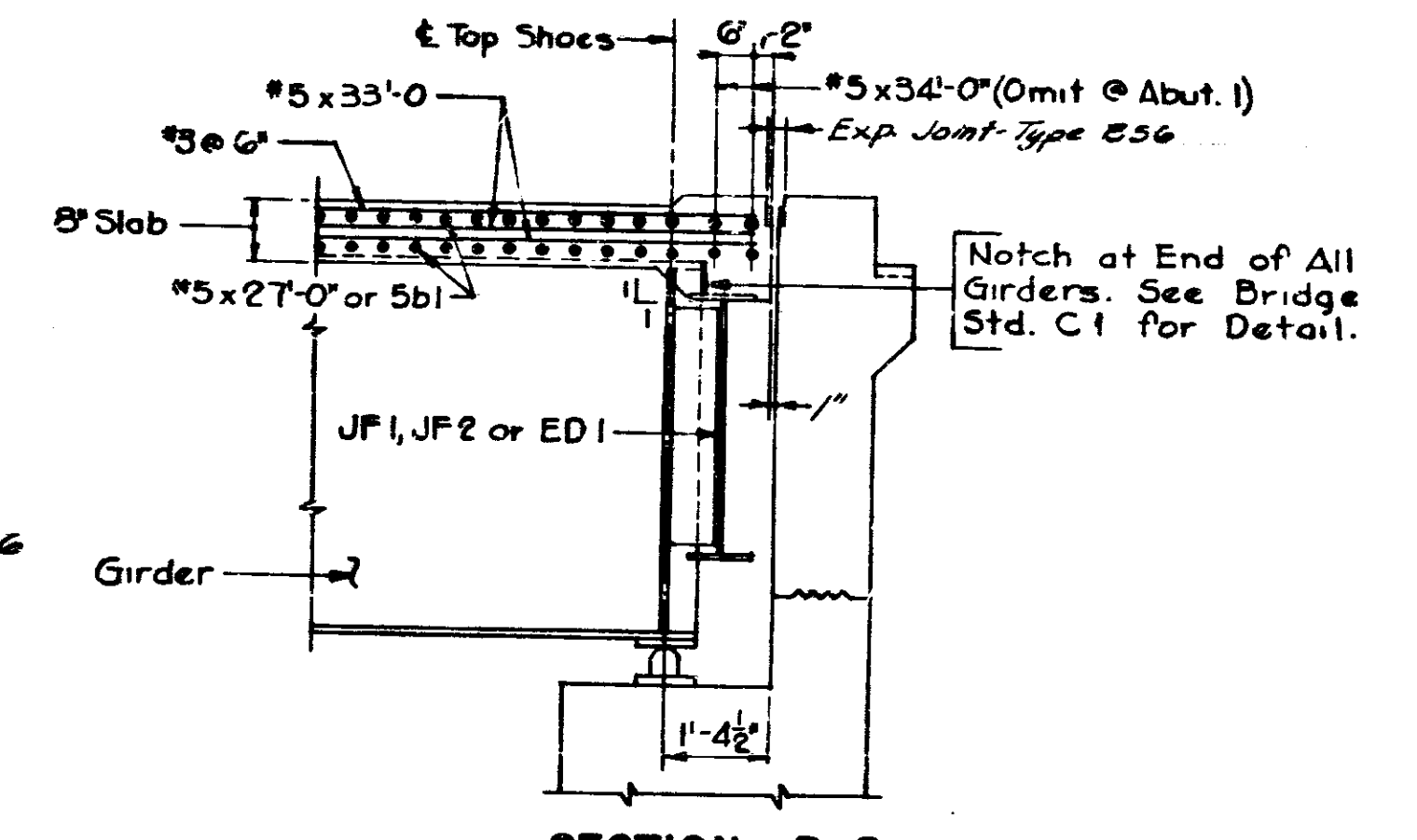
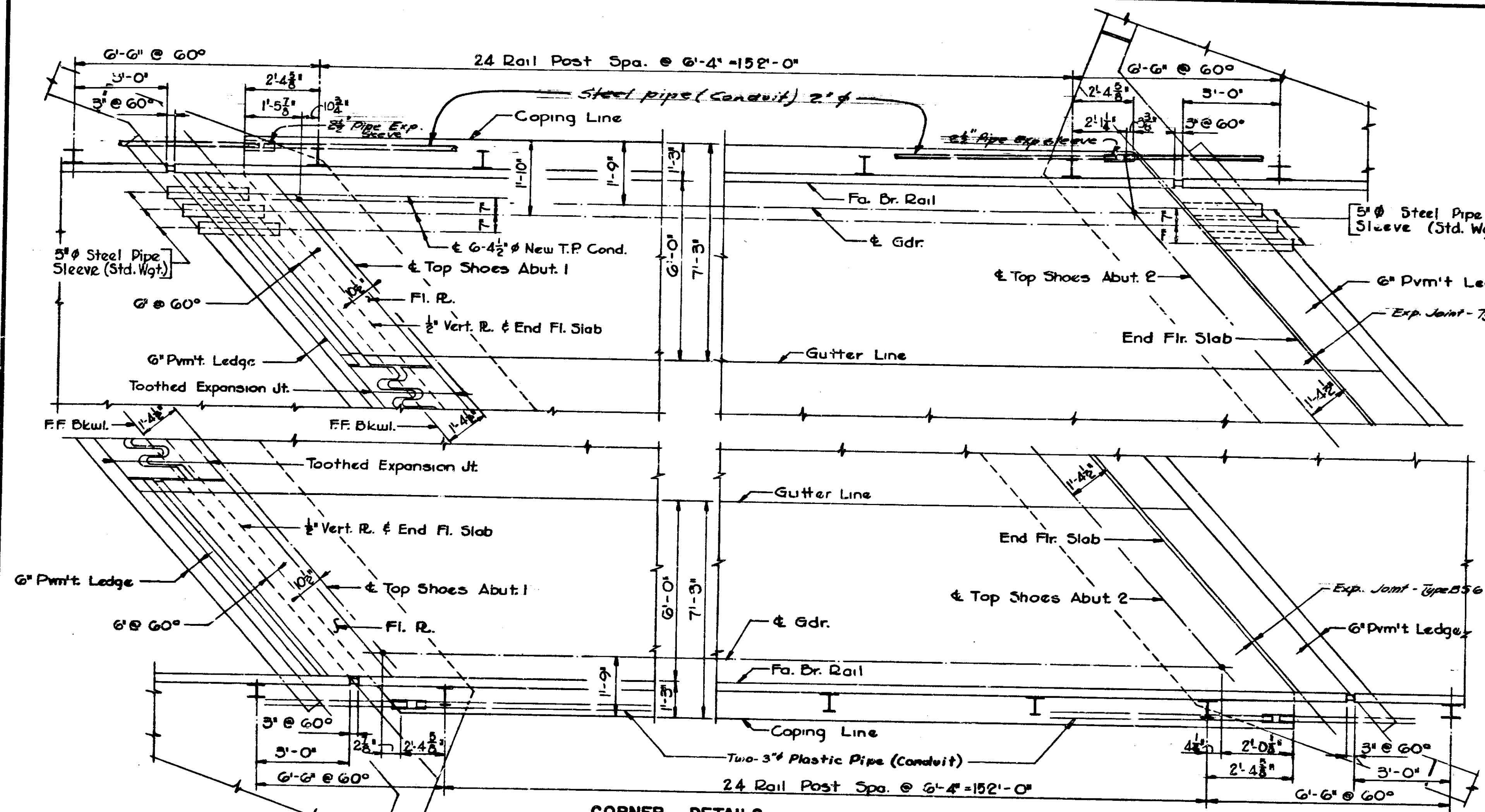
Rev. 8-3-75 Section A-A Tooled Liner & Deck Drain
 Rev. 2-23-72 5" Plastic Pipe (Conduit)
 Rev. 12-22-71 Notes, 2" Steel Pipe Conduit added.

REV. 8-73 J.J.W. C.H.E.

REV. 2-23-72 ANM

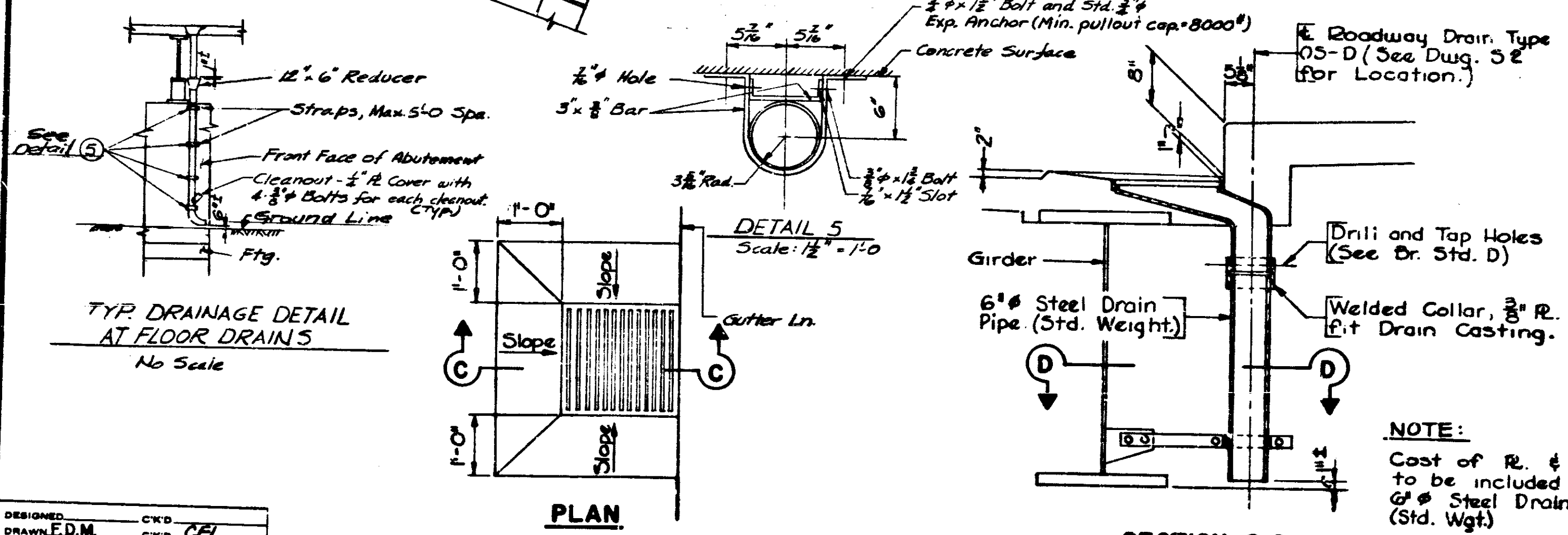
REV. 12-22-71 J.J.W.

BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3 (106) III	1971	18	25



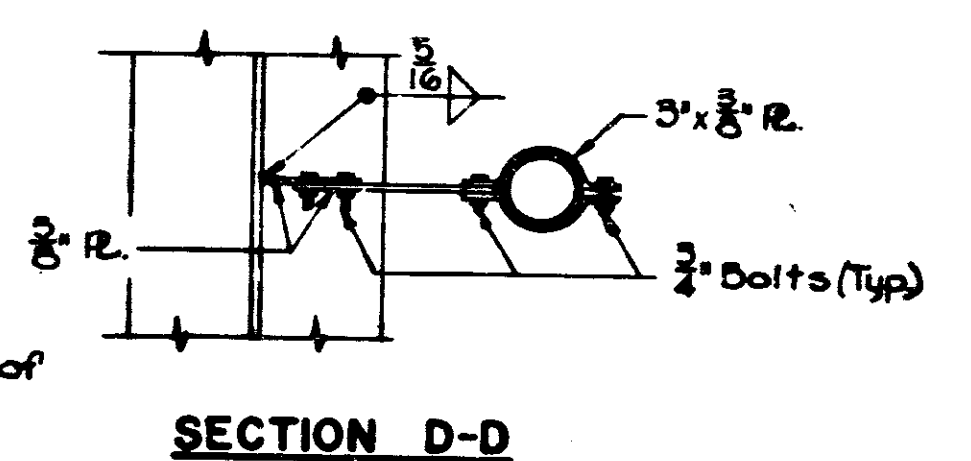
NOTE:
 See Dwg. 52 for General Notes.
 See Dwg. 512 for Floor Plan.
 See Dr. Std. C1 for Reinf. Bar Notes.

CORNER DETAILS



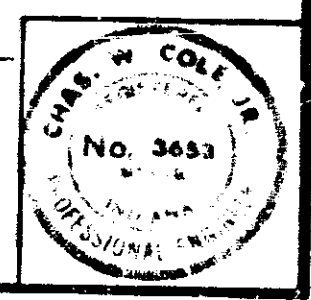
See Dwg. 514 for Overlay and B56 Exp. Joint Details

NOTE:
 Cost of R. & Hardware to be included in cost of 6\"/>



FLOOR DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/2" = 1'-0"
 JUNE 15, 1971
 SUBMITTED FOR APPROVAL: *[Signature]*
 DRAWING: 513 OF 14
 PROJECT: I-65-3(106) III
 CONTRACT NO. B-6077
 BRIDGE FILE: I-65-III-5720



DESIGNED	CWD
DRAWN	E.D.M.
TRACED	CWD

DETAILS TYPE OS-D DRAIN

SECTION C-C

SECTION D-D

REV. 8-73 Exp. Joint, Overlay, etc. attached.

REV. 2-23-71 5\"/>

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE

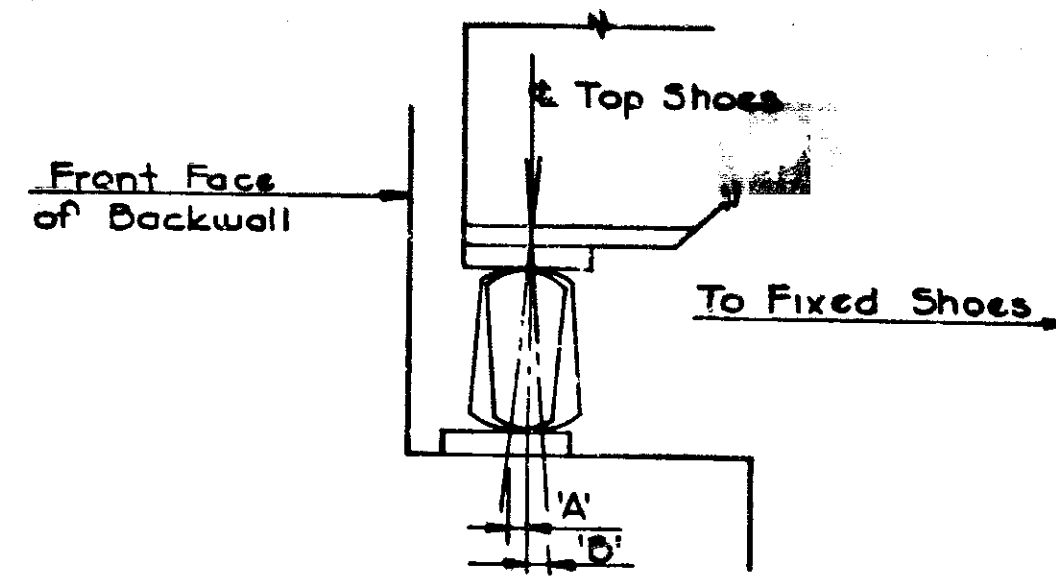
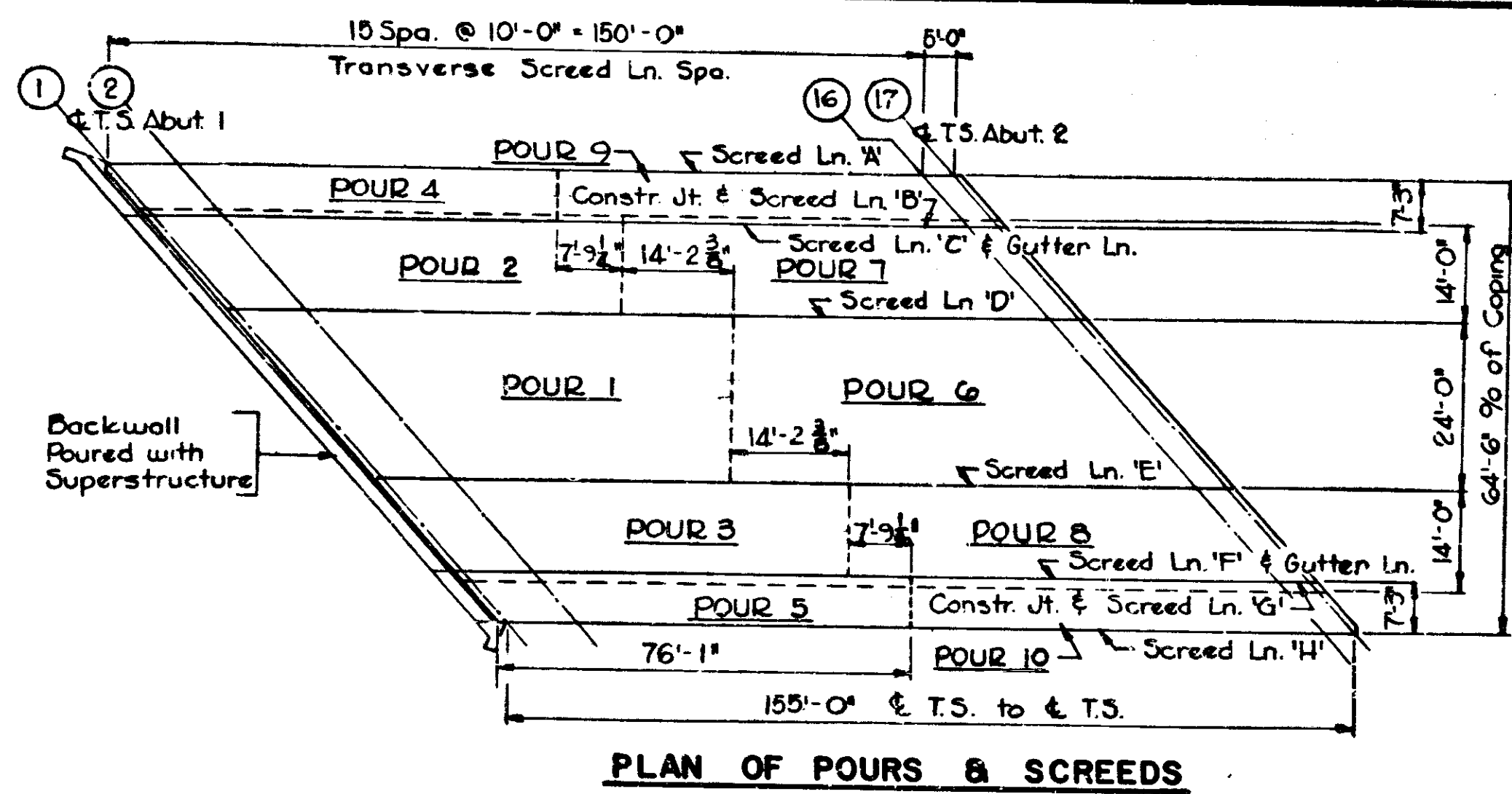
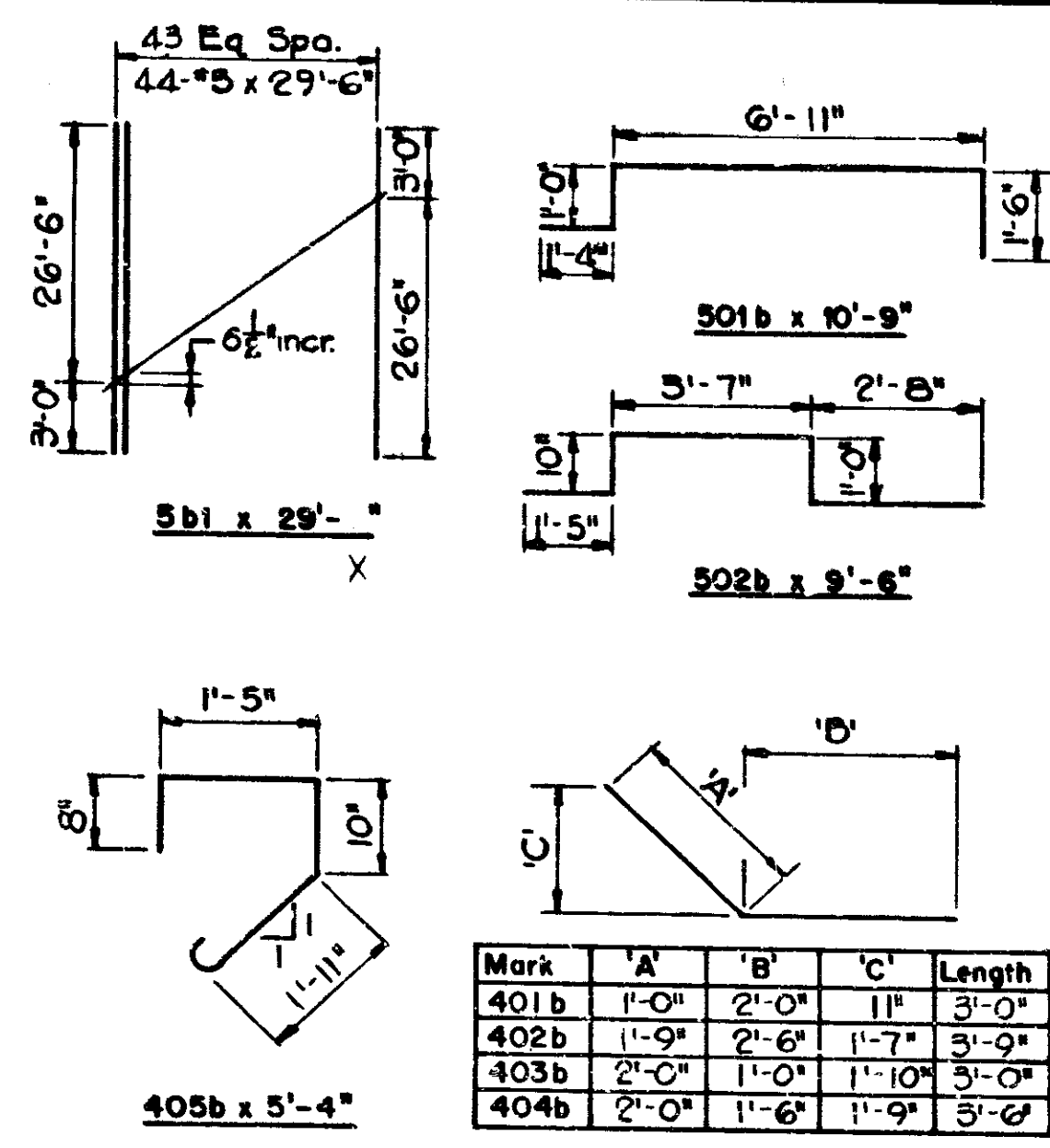


TABLE I

TEMPERATURE	0°	20°	40°	60°	80°	100°	120°
DIMENSION 'A'	1 1/4"	1"	3/4"	1/2"	1/4"	0"	1/4"
DIMENSION 'B'						0"	1/4"



Mark	A'	B'	C'	Length
401b	1'-0"	2'-0"	1"	3'-0"
402b	1'-9"	2'-6"	1'-7"	3'-9"
403b	2'-0"	1'-0"	1'-10"	3'-0"
404b	2'-0"	1'-6"	1'-9"	3'-6"

PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-3 (108111)	1971	16	25

BILL OF MATERIALS

REINFORCING STEEL			
MARK & SIZE	NO. OF BARS	LENGTH	WEIGHT
5b1	176	29'-6"	
501b	718	10'-9"	
502b	748	9'-6"	
503b	18	7'-6"	
504b	18	9'-6"	
#5	550	33'-0"	
#5	1320	27'-0"	
#5	0	34'-0"	
Total Weight #5			77,585
401b	3	3'-0"	
402b	3	3'-9"	
403b	3	3'-0"	
404b	3	3'-6"	
405b	3	5'-4"	
#4	32	22'-9"	
#4	32	3'-0"	
Total Weight #4			869
#3	115	157'-0"	
Total Weight #3			6789
Total Weight Reinf. Stl.			85,333

CONCRETE	
CLASS 'C' CONCRETE	CU. YDS.
POUR 1	51.9
POUR 2	31.1
POUR 3	31.1
POUR 4	23.4
POUR 5	25.3
POUR 6	51.9
POUR 7	31.0
POUR 8	31.0
POUR 9	23.4
POUR 10	25.3
Backwall Abut. 1	16.9
Total Class 'C' Conc.	342.3

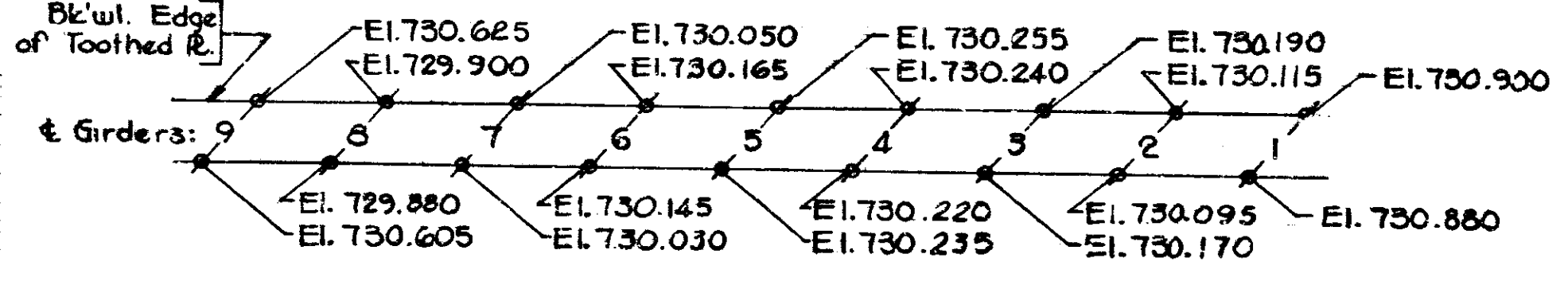
MISCELLANEOUS		
2-OSD Rdwy. Drains @ 248# ea.	496 lbs.	
6" Steel Drain Pipe (Std. Weight)	N.L.F.	
Rolling Type G or D	318 L.F.	
Anchor Bolts A193 1/2" dia. x 12" L.	170 L.F.	
2" Steel Pipe (Conduit)	170 L.F.	
Plastic Pipe (Conduit) 5"	340 L.F.	
1/2" x 1/2" x 1/2" Rebar	Length Weight	
601b	4	3'-5"
602b	10	2'-5"
Total #C		90"

SEQUENCE OF POURS

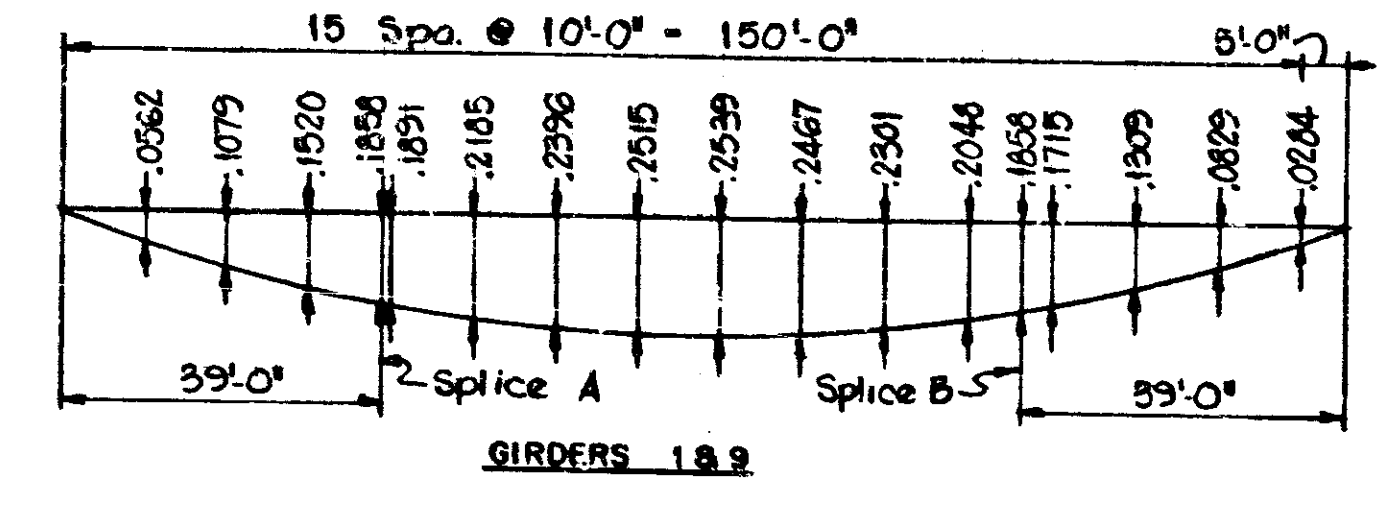
Sequence of pours to be made in order of pour number. All superstructure construction joints are optional except as noted and pours may be made continuous provided the pours terminate at construction joints indicated on the plans. The contractor may change the width of pours, sequence of pours, or location of construction joints subject to the approval of the Engineer.

GENERAL PROCEDURE NOTES:

- After the structural steel has been erected adjust the superstructure longitudinally so that the dimension of Abutment 2 from & T.S. (Parallel to Girder) to F.F. Bk'wl. is 1'-6 1/2" regardless of the temperature.
- With the superstructure in the adjusted position called for in Step 1, weld the bearing plates of the fixed shoes at Abutment 2 to the anchor plates.
- Adjust the expansion plate under each expansion shoe in accordance with dimension 'A' in Table I for the prevailing temperature. Note that dimension 'A' is always the distance from a vertical line through the centerline of the top shoe in a direction away from the fixed shoe. Weld the expansion plate to the anchor plate.
- Set the toothed expansion joints and adjust the elevations shown on this sheet using double nuts on anchor rods.
- Adjust the toothed expansion joints horizontally so that opening 'D' between teeth are equal and longitudinally so that opening 'D' corresponds to the value in Table II for the prevailing temperature.
- Screed elevations shall be determined by adding the concrete dead load deflections to the required final concrete elevations at all screed points. Take elevations at all screed points on top of beam adjacent to screed point. Subtract these elevations from the elevation corrected for deflection and use the resulting dimension as the height for setting the screed and use the resulting dimension as this dimension remains constant regardless of how much or in what order concrete is poured. Do not set screed or coping forms by leveling. Screed elevations will be furnished on request.
- No concrete in the floor is to be poured until the above operations are completed.



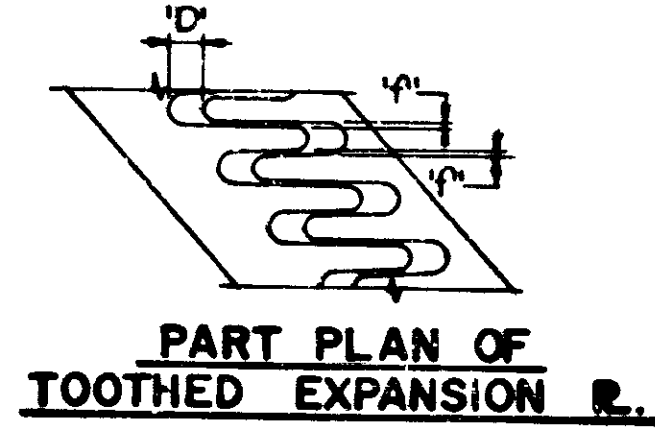
ELEVATIONS @ EDGES OF TOOTHED EXP. R.



CONCRETE DEAD LOAD DEFLECTION DIAGRAMS

TABLE II

TEMPERATURE	0°	20°	40°	60°	80°	100°	120°
DIMENSION 'D'	2 1/2"	2 1/4"	2"	1 3/4"	1 1/2"	1 1/4"	1"



PART PLAN OF TOOTHED EXPANSION R.

NOTES:

See Dwg. 52 for General Notes.
See Br. Std. C1 for Reinf. Bar Notes.
See Br. Std. R20 for EOB & COB Bandings Diagrams.

FLOOR DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: NONE
JUNE 15, 1971

SUBMITTED FOR APPROVAL: *[Signature]*

DRAWING: 5 14 OF 14
PROJECT: I-65-3(108111)
CONTRACT NO. B-6517
BRIDGE FILE: I-65-III-9720



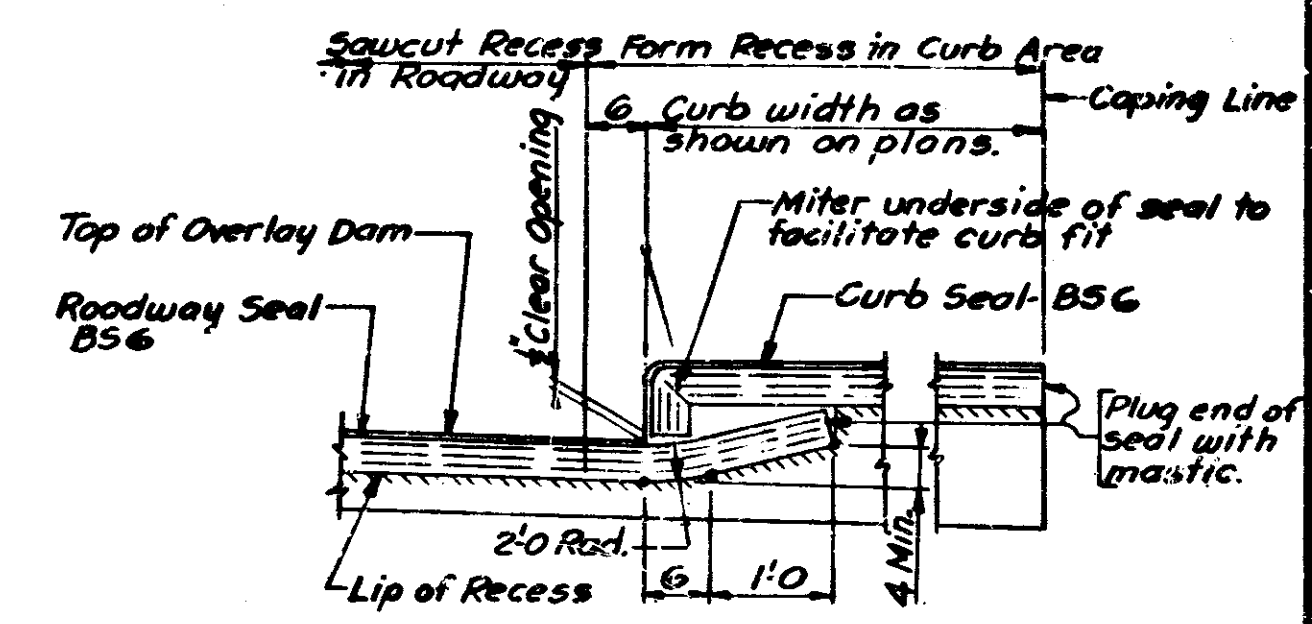
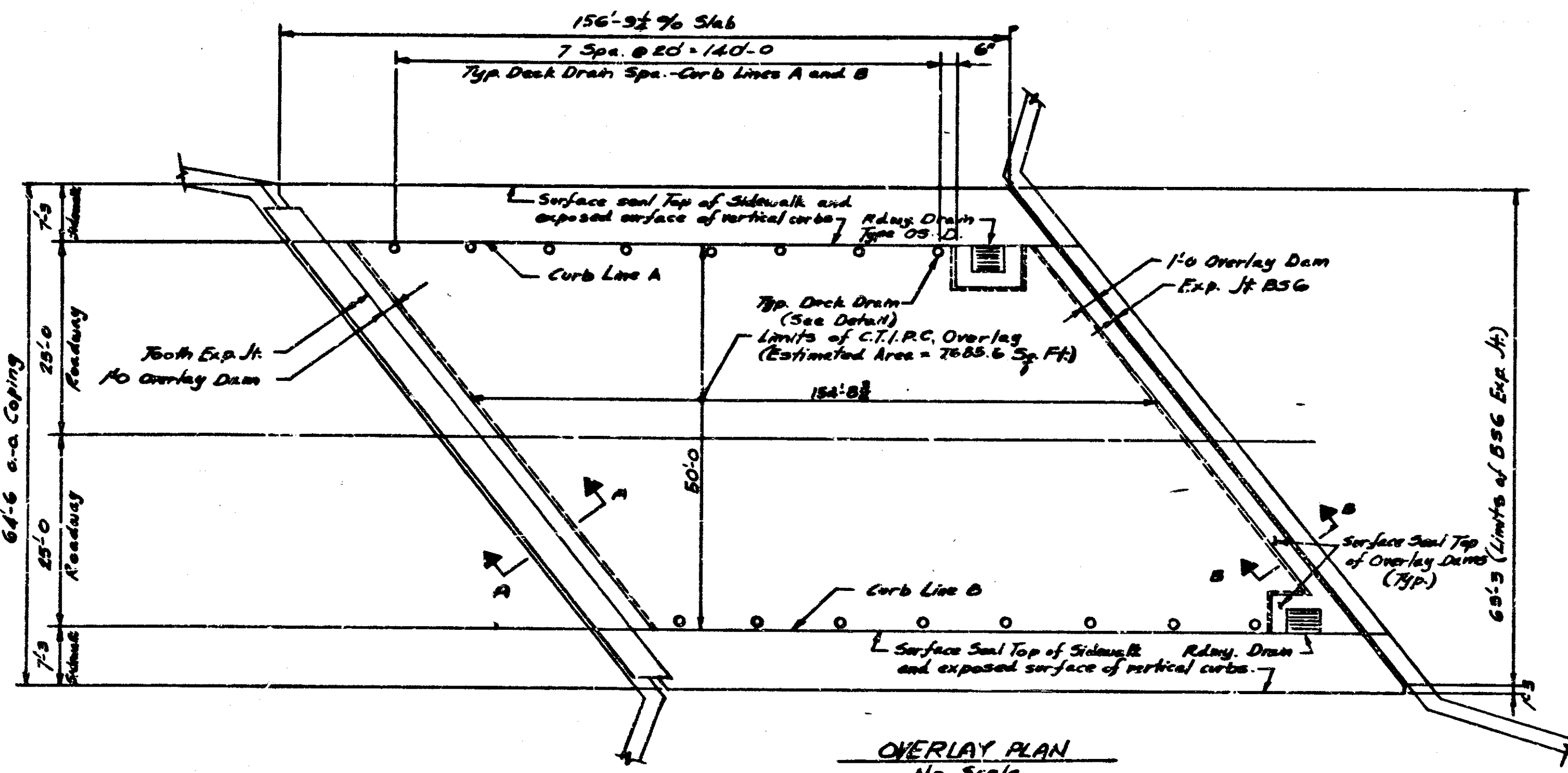
DESIGNED	CWD
DRAWN	EDM
TRACED	CWD

Rev. 8-5-78 Elevations, Bill of Materials

Rev. 12-29-72 Nt. of Hwy. Drain in Bill of Materials
Rev. 12-22-71 Notes, Bill of Materials
Rev. 2-23-72 Bill of Materials

PROJECT NO.	LINE	POST	DATE	FILE

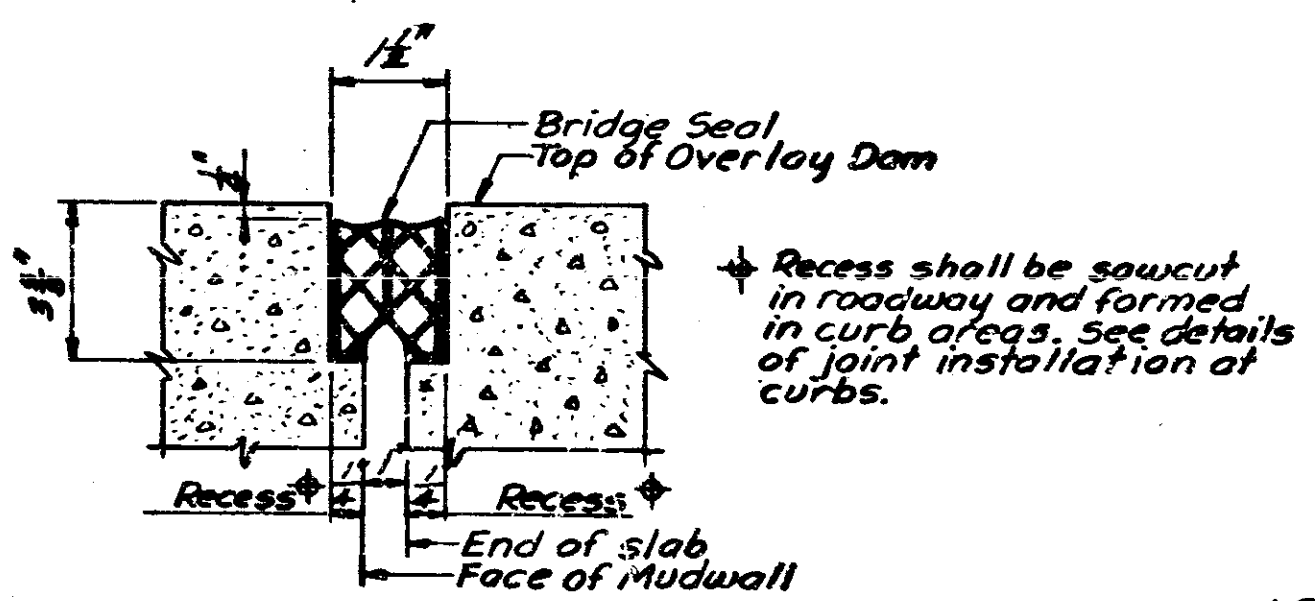
FEDERAL ROAD DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	2-22-37	1974	16A	28



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

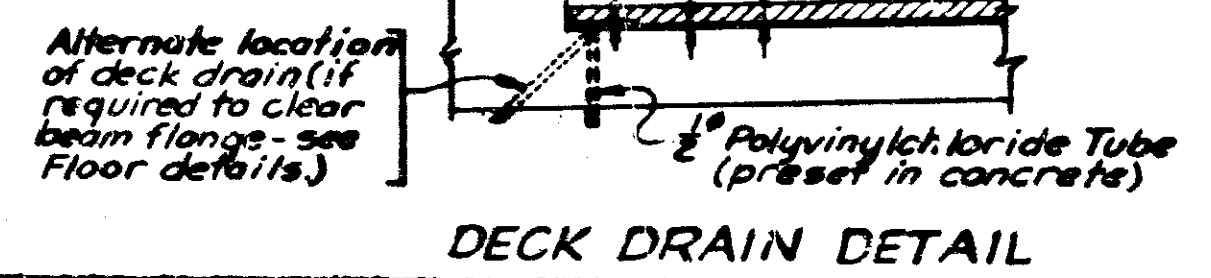
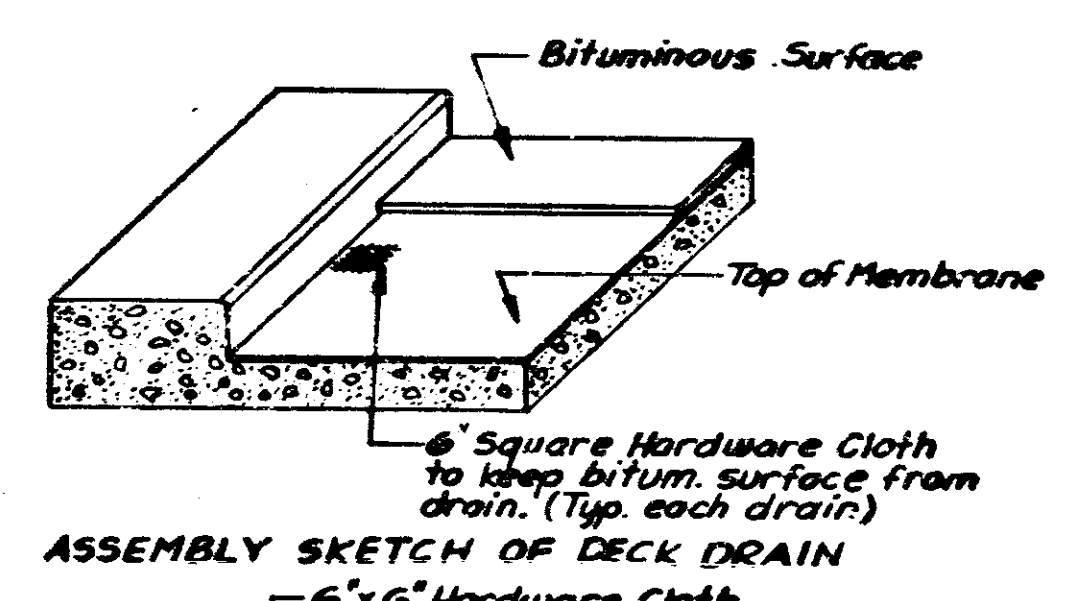
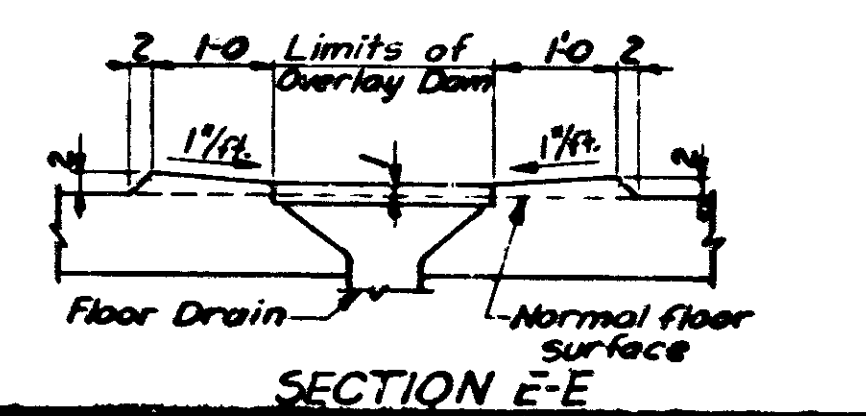
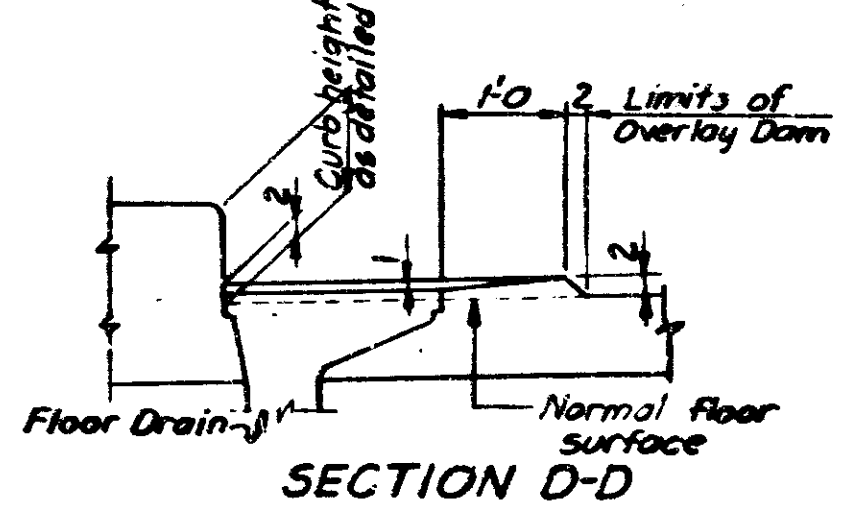
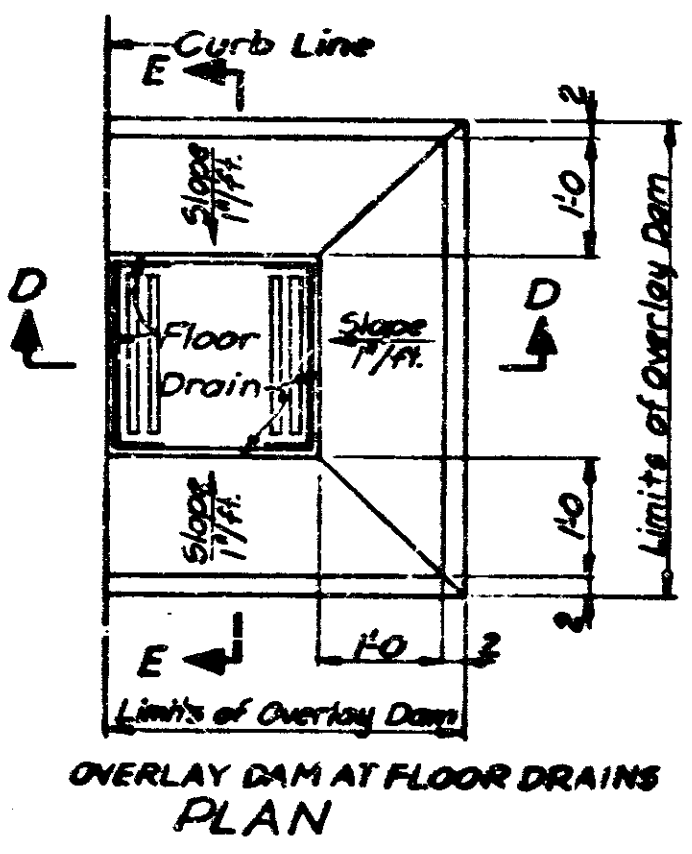
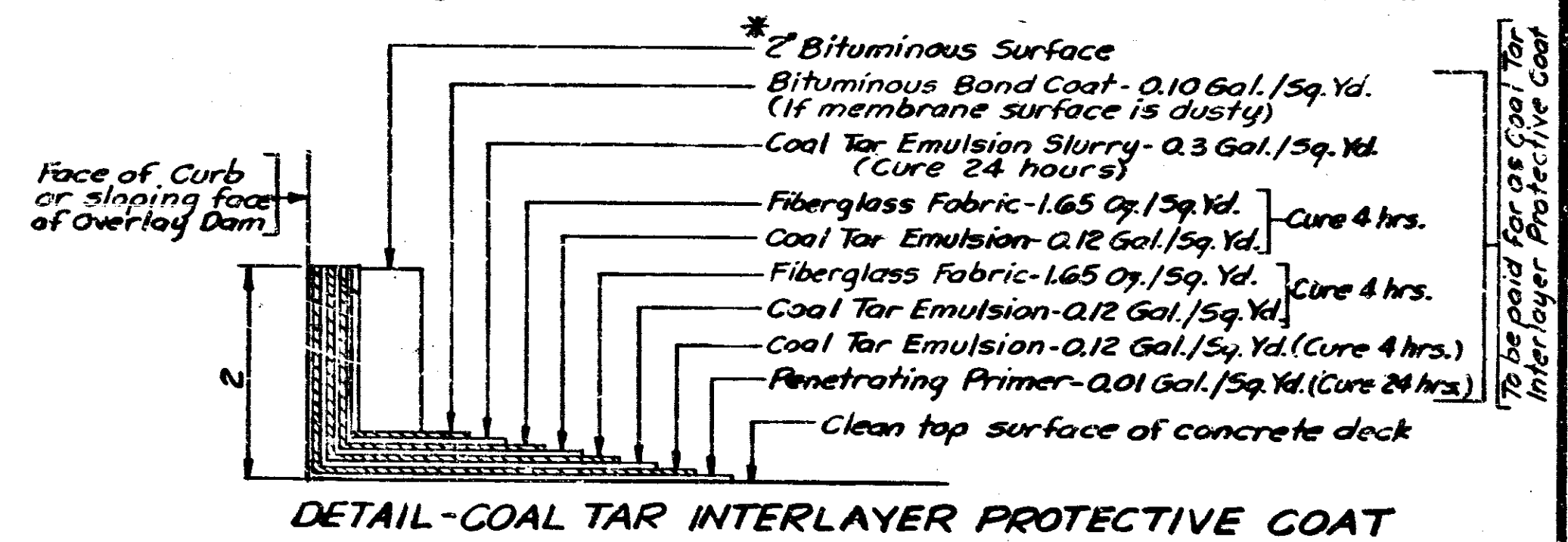
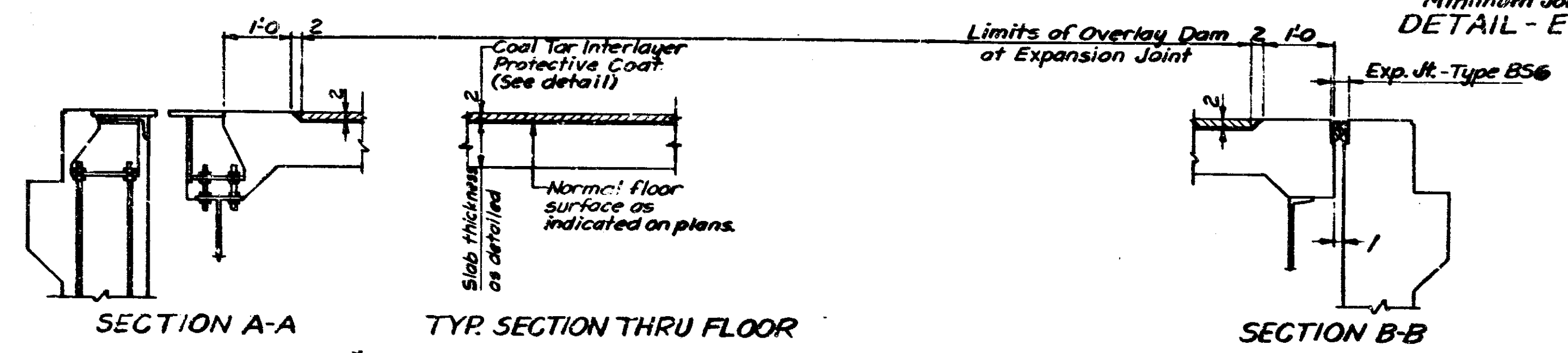
BILL OF MATERIALS

Coal Tar Interlayer Protective Coat	1 Lump Sum
Bituminous Mixture for Approaches	33.9 Tons
Deck Drains	1/6 Ea.
Surface Seal	246 Sq. Ft.
Expansion Joint-Type BS6	642 Lin. Ft.



Size of Seal = 2 1/2\" x 2 1/2\"
 Minimum Joint Width = 1 1/2\"
 Maximum Joint Width = 2 1/2\"
 Minimum Joint Width at Installation = 1 1/2\"
 Minimum Joint Depth at Installation = 3 1/2\"

*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



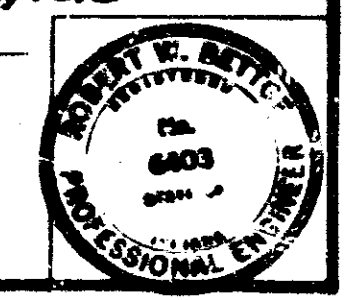
NOTES:
 Work this drawing with floor details.
 Overlay Dams at ends of floor slab and adjacent to floor drains shall be poured monolithic with the slab.
 Surface seal the top surface of all overlay dams, the exposed vertical face of all curbs and the top surface of curbs, walks and medians, where applicable.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

DETAILS-C.T.I.P.C. OVERLAY AND EXP. JOINT-TYPE BS6
INDIANA STATE HIGHWAY COMMISSION

SCALE: No Scale DATE: AUGUST 3, 1973

Robert W. Burt

DRAWING: SMA OF 344 SHEET: 16A OF 25
 PROJECT: I-65-3 (106)111
 CONTRACT NO. B-6677
 BRIDGE FILE: I-65-NI-5780



DESIGNED: CWD
 DRAWN: CAN/GAS J.C.D. E.B.M/M
 TRACED: CWD

Rev. 7-3-72 Items 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.

ITEM	CONCRETE										QUANTITIES									
	CLASS C		CLASS B		CONCRETE RAILING CLASS A		REINFORCING STEEL TOTAL LBS.	STRUCT. STEEL *** LBS.	ANCHOR PLATES MK-AP 2 LBS.	ANCHOR RODS MK-AR 7 EACH	UNTREATED TIMBER LBS.	TREATED TIMBER LBS.	STEEL BEARING LBS.	CAST IRON DRAIN PIPE LBS.	RAILING TYPE D OR S LBS.	CAST IRON GRATES BASES AND FITTINGS LBS.	# BORROW CU. YDS.	6" STEEL DRAIN PIPE TYPE #19 LBS.	EXP. JT. TYPE #19 LBS.	
	SUBSTR.	SUPERSTR.	ABOVE FTG.	IN FTG.	CU. YDS.	LN. FT.														
	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	LN. FT.	LBS.	LBS.	LBS.	EACH	EACH	LN. FT.	LN. FT.	LN. FT.	LN. FT.	LBS.	LN. FT.	LN. FT.		
SUBSTRUCTURE																				
ABUTMENT 1			202.9	195.2			63,702		9	74							2420			
ABUTMENT 2			225.6	195.2			66,412		9								2420			
SUPERSTRUCTURE		542.5					65,537	772,700	236					318	496		41	84		
TOTALS		542.5	428.5	590.4			215,649	772,700	336	18	74			318	496	4840	41	84		

STRUCT. NO.	LOCATION	SIZE	APPROACH DESCRIPTION		STRUCTURES				REMARKS
			KIND	LENGTH LIN. FT.	CONCR. CLASS IN STRS.	REINFORCING STEEL LBS.	BORROW FOR STRUCT. BACKFILL CU. YDS.	PIPE END SEC. EACH	
			TOTALS						Total of Reinforcing Steel Carried to "Structure Quantities"

ITEM	UNIT	QUANTITY	ASSEMBLY	TRAFFIC SIGNS AND LIGHTS	
				BRIDGE	FILE
CONSTRUCTION SIGNS TYPE A	EACH		Signs XW-1 Signs XW-2 Signs XW-3 Signs XM-2 Signs W-4B, W-35A (20 M.P.H.)		
STANDARD BARRICADES TYPE A	EACH		Torches Barricades (Type A) Signs XR-1 Signs M-30A		
STANDARD BARRICADES TYPE B	EACH		Lanterns Barricades (Type B) Signs XR-1		
CONSTRUCTION SIGNS TYPE B	EACH		Lanterns Signs W-11 Signs W-35A		
SUITABLE BRIDGE BARRIERS	EACH		* Torches * Suitable Barriers * Lanterns or Torches		
CONSTRUCTION IDENTIFICATION SIGNS	EACH		* Signs XM-6 * Signs XM-7 * Signs XM-8		

BRIDGES OVER 20' SPAN				
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	I-65-3(106) III	1971	17
				25

ITEM	DESCRIPTION	UNIT	QUANTITIES	
			BRIDGE	FILE
1	Concrete, Class C in Superstructure	Cu. Yds.	542.5	
2	Concrete, Class A in Substructure	Cu. Yds.		
3	Concrete, Class B above Footings	Cu. Yds.	428.5	
4	Concrete, Class B in Footings	Cu. Yds.	590.4	
5	Concrete Railing			
6	Reinforcing Steel	Pounds	215,649	
7	Structural Steel	Lump Sum		
8	Concrete Structural Members	Lump Sum		
9	Anchor Plates (MK-AP 2)	Each	18	
10	Anchor Rods	Pounds	336	
11	Cast Iron Drain Pipe, Each	Pounds	496	
12	Cast Iron, Grates, Bases and Fittings	Pounds	496	
13	Railing (Type C or D)	Ln. Ft.	318	
14	Timber Piles Furnished, Untreated	Ln. Ft.		
15	Timber Piles Driven, Untreated	Ln. Ft.		
16	Timber Piles Furnished, Treated	Ln. Ft.		
17	Timber Piles Driven, Treated	Ln. Ft.		
18	Pile Shields Furnished & Driven (")	Ln. Ft.		
19	Steel H Piles Furnished & Driven (")	Ln. Ft.		
20	Furnishing Equipment for Driving Piles	Lump Sum		
21	Wet Excavation	Cu. Yds.		
22	Foundation Excavation (Unclassified)	Lump Sum		
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 (")	Ln. Ft.		
29	Concrete Pavement, Reinforced Cement (")	Sq. Yds.		
30	(Type) Compacted Aggregate for Base			
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	R/W Markers	Each		
39	Stagewall	Sq. Yds.		
40	Signs	Sq. Yds.		
41	Concrete, Class A in Structures	Cu. Yds.		
42	Sodding	Cu. Yds.		
43	Matched Seeding	Sq. Yds.		
44	Anchor Rods (MK-AR 7)	Each	74	
45	6" Steel Drain Pipe	Lump Sum		
46	Const. Support & Protection of Exist. I.O.T.P. Cables	Lump Sum		
47	Anchor Bolt AE-22	Each	4	
48	SPEL PIPE (CONDUIT) 3"	Ln. Ft.	170	
49	Plastic Pipe (Conduit) 3"	Ln. Ft.	340	
50	Exp. Joint - Type BS 6	Ln. Ft.	84	
51	Deck Drains	Each	16	
52	Surface Seal	Sq. Ft.	2622	
53	Bituminous Mixture for Approaches	Tons	28.9	
54	Coal Tar Interlayer Protective Coat	Lump Sum		

**SUMMARY
INDIANA STATE HIGHWAY COMMISSION**

JUNE 15, 1971

SUBMITTED FOR APPROVAL *Shaw*

PROJECT: I-65-3(106) III
CONTRACT NO: B-2877
BRIDGE FILE: I-65-III-5720



SURVEYED BY: C.W. GEL
TRACED BY: C.W.

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 at laps 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.
* Item included in Total Quantities.
* Approximate length only. Contractor shall determine the length on which he bases his bid.
Rev. 12-29-72 Item 12
Rev. 8-3-73 Items 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
Rev. 2-23-72 Item 49 added

DECEMBER 1968

END STR

I-65-III-5720