

CONTRACT NO. M-8151

INDEX						
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION	CONTRACT NO.
	43-67-1077A	R.C. ARCH (Extension)	3 @ 65', Sk. 15° L.	BIG WALNUT CREEK	79+10	M-8151
SHEET NO.	SHEET DESIGNATION	SUBJECT				B.P.R. APPROVAL
1	INDEX & TITLE SHEET					
2	GENERAL PLAN					
3	HALF PLAN					
4	HALF PLAN					
5	ABUTMENT #1 DETAILS					
6	WINGS A & B DETAILS					
7	PIERS #2 & #3 DETAILS					
8	ABUTMENT #4 DETAILS					
9	WINGS C & D DETAILS					
10	SPAN A DETAILS					
11	SPAN B DETAILS					
12	SPAN C DETAILS					
13	DETAILS					
14	BILLS OF MATERIALS & BENDING DIAGRAM					
15	BILLS OF MATERIALS					
16	BILLS OF MATERIALS					
17	BILLS OF MATERIALS					
18	ONE SHEET	SUMMARY				

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS FOR SPANS OVER 20 FEET ON STATE ROAD NO. 43

GREENCASTLE - CRAWFORDSVILLE ROAD

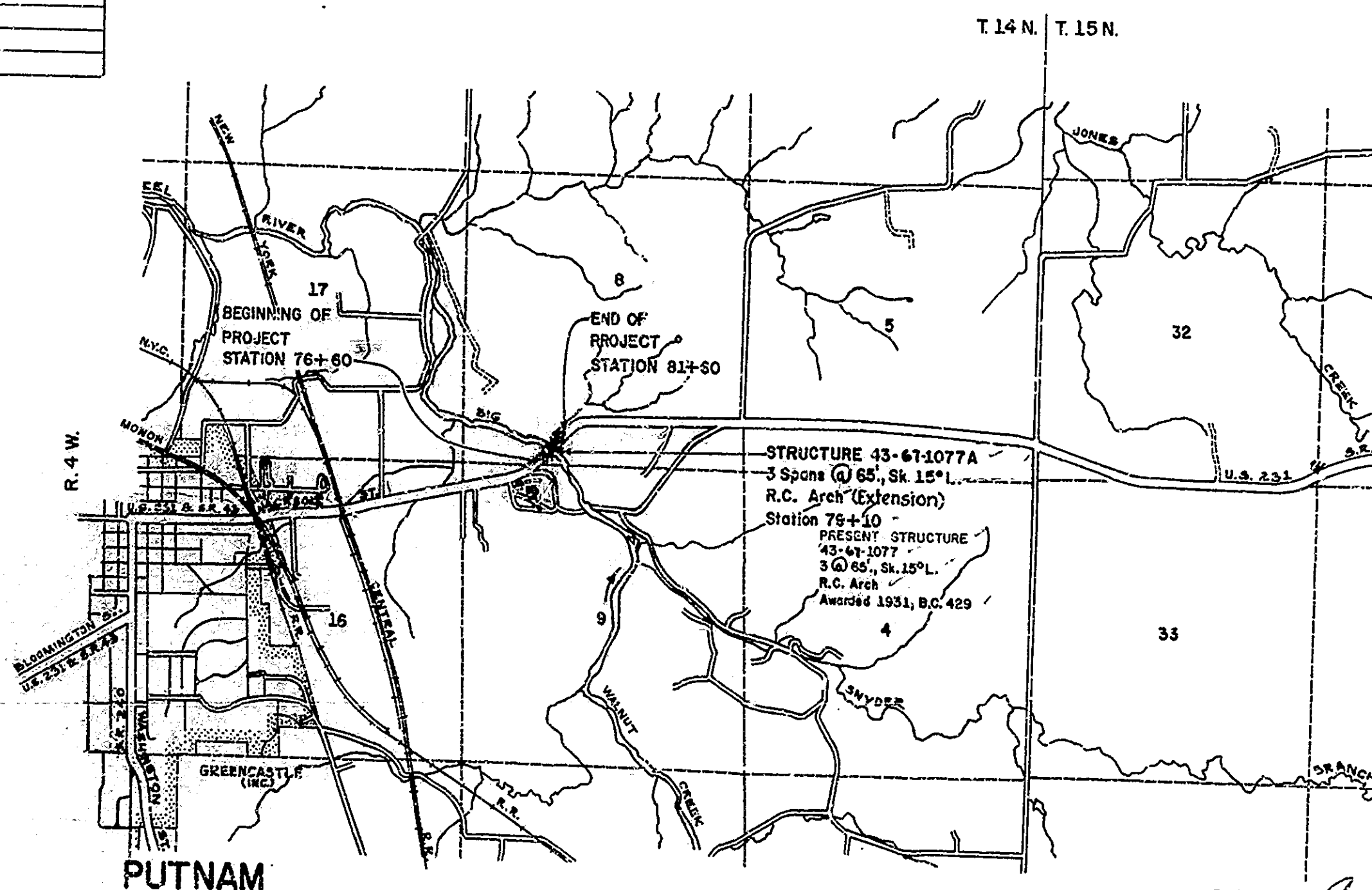
BEGINNING AT A POINT ON S.R. 43 APPROX. 200' NORTHWEST OF THE EAST LINE OF SECTION 8 AND
EXTENDING NORTHWEST A DISTANCE OF APPROX. 500' TO A POINT ON S.R. 43 APPROX. 700' NORTHWEST OF
THE EAST LINE OF SECTION 8, ALL IN SECTION 8-T. 14 N.-R. 4 W., PUTNAM COUNTY.

ROADWAY LENGTH = 0.056 MI.
BRIDGE LENGTH = 0.038 MI.
TOTAL LENGTH = 0.094 MI.
MAX. GRADE = -1.0 %

BRIDGES OVER 20' SPAN					
BRIDGE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.		1967	1	34

INDEX CONTINUED STANDARD DRAWINGS			
SHEET NO.	SHEET DESIGNATION	SUBJECT	B.P.R. APPROVAL
19	BRIDGE STD. C1	STANDARD MISCELLANEOUS DETAILS	
20	BRIDGE STD. C2	STANDARD MISCELLANEOUS DETAILS	
	BRIDGE STD. D	CASTING DETAILS ROADSIDE DRAIN	1-12-60
	BRIDGE STD. F	ROADWAY DRAIN OUTLET DETAILS	R-7-15-57
	BRIDGE STD. J	EXPANSION JOINT	
	BRIDGE STD. M	MISCELLANEOUS APPROACH DETAILS	
	BRIDGE STD. MA	R.C. BRIDGE APPROACH TURNOUT DETAILS-12'-6" SHOULDERS	
	BRIDGE STD. MS	SLOPEWALL AND DRAINAGE DETAILS	
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE T-BEAMS	
	BRIDGE STD. PBR	PRESTRESSED BOX BEAMS	
	BRIDGE STD. PS	PRESTRESSED COMPOSITE BOX BEAMS WIDE	
	BRIDGE STD. P810	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS	
21	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING	R-10-3-68
22	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS	R-10-3-68
23	BRIDGE STD. BR3	STEEL BRIDGE RAILING	R-10-3-68
24	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS	A-JAN-1967
	BRIDGE STD.		
	BRIDGE STD.		
	BRIDGE STD. S1	TYPICAL DETAILS FOR PLACING GRADE "B" SPECIAL BORROW	
25	BRIDGE STD. S2	TYPICAL DETAILS FOR PLACING GRADE "B" SPECIAL BORROW	R-2-10-67
	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE	
	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE	
	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS	
	ROAD STD. SHEET B	MISCELLANEOUS STANDARDS	
26	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS	R-1-10-67
27	ROAD STD. SHEET MC1	MISCELLANEOUS STANDARDS	A-JULY-1965
	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME1	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME2	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME3	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME4	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME5	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME6	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME7	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME8	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME9	MISCELLANEOUS STANDARDS	
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	ROAD STD. SHEET ME100	MISCELLANEOUS STANDARDS	

TRAFFIC DATA			
A.D.T. (1967)		6000	V.P.D.
A.D.T. (1987 PROJECTED)		11000	V.P.D.
D.H.V. (1987 PROJECTED)		1100	D.H.V.
TRUCKS (D.H.V.)		7	%
DESIGN SPEED		40	M.P.H.
ACCESS CONTROL			NONE

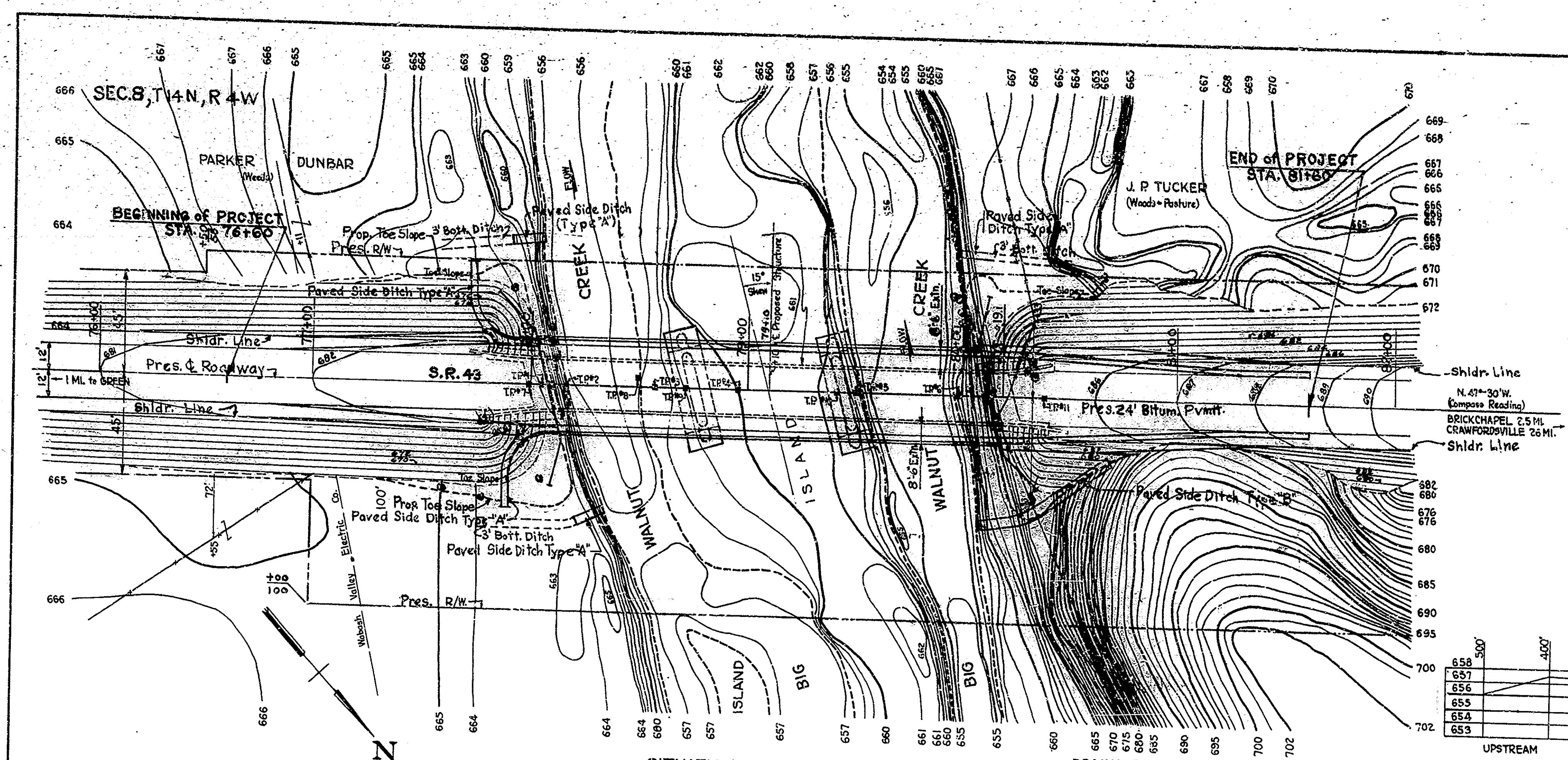


INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1963
TO BE USED WITH THESE PLANS.

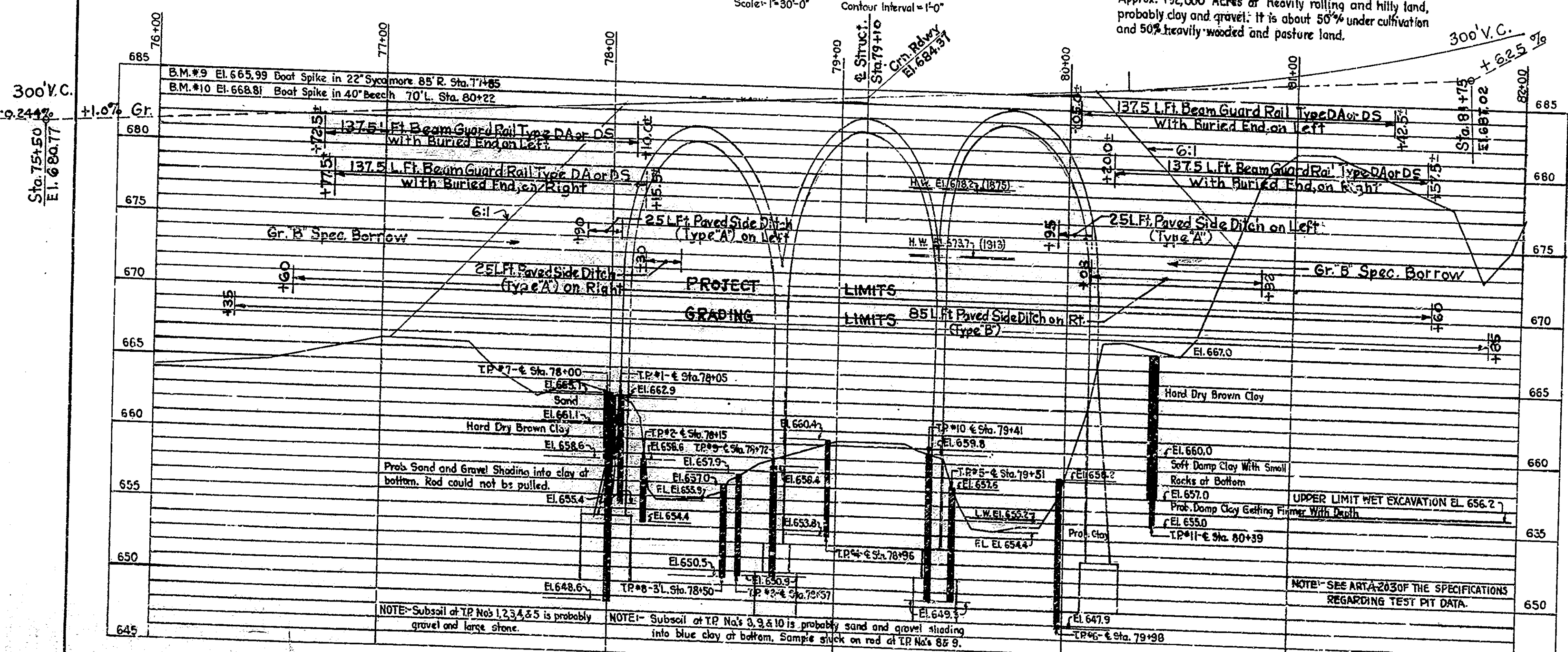
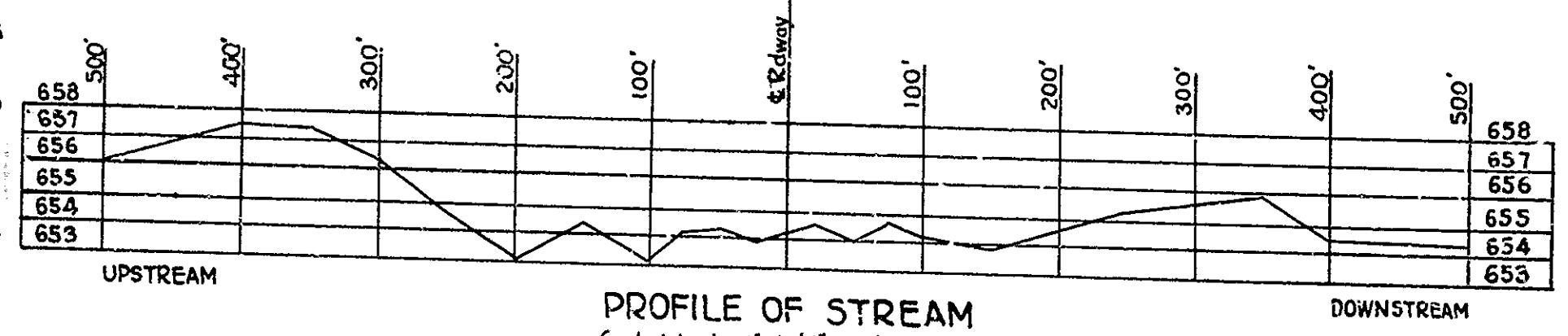
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DATE	SHEET NO.
8-1-1969	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34

CO. *P. R. Lowell*
SOLID CHIEF
RECOMMENDED FOR APPROVAL 8/7/67
J. H. Richardson
ASSISTANT ENGINEER OF PLANS AND SPECIFICATIONS
RECOMMENDED FOR APPROVAL 8-10-67
P. J. Klugelhoefer
ENGINEER OF PLANS AND SPECIFICATIONS

APPROVED 8-15-67
F. T. Williams
CHIEF HIGHWAY ENGINEER - INDIANA STATE HIGHWAY COMMISSION
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED:
DIVISION ENGINEER
DATE
BRIDGE FILE: 43-67-1077A



FILL + 20%	=	1000 Cu. Yds.
SURPLUS EXCAVATION	=	1215 Cu. Yds.
COMMON EXCAVATION	=	50 Cu. Yds.
WASTE	=	265 Cu. Yds.



Dr. Std.	Rd. Std.	Purpose
C1		Reinf. Bar Notes
C2		Ar. Rq. Stirrups, Waterproofing & Copper Flash Details
BR1		Aluminum Railing - Type 5
BR2		Aluminum Railing Details
BR3		Steel Railing - Type C
S2		Placing Gr. B Special Borrow
BR4		Steel Railing Details
MB		Std. Lip Gutter, Paved Side Ditch, and Sodding
MB1		Std. Lip Gutter Turnout
GR8		Steel Beam Guard Rail - Type Ds
GR9		Aluminum Beam Guard Rail - Type DA
GR5		Aluminum Beam Guard Rail - Details
		Special Signs
Sh. Detours		Std. Detour Signs
Sh. Detours		Std. Detour Signs
Gr. 6		Rail End Cap

LAYOUT
REINFORCED CONCRETE ARCH BRIDGE
 3 SPANS @ 65'-0" SKEW 15° LEFT 41'-0" ROADWAY
 OVER BIG WALNUT CREEK ON STATE ROAD 43
INDIANA STATE HIGHWAY COMMISSION
 PUTNAM COUNTY

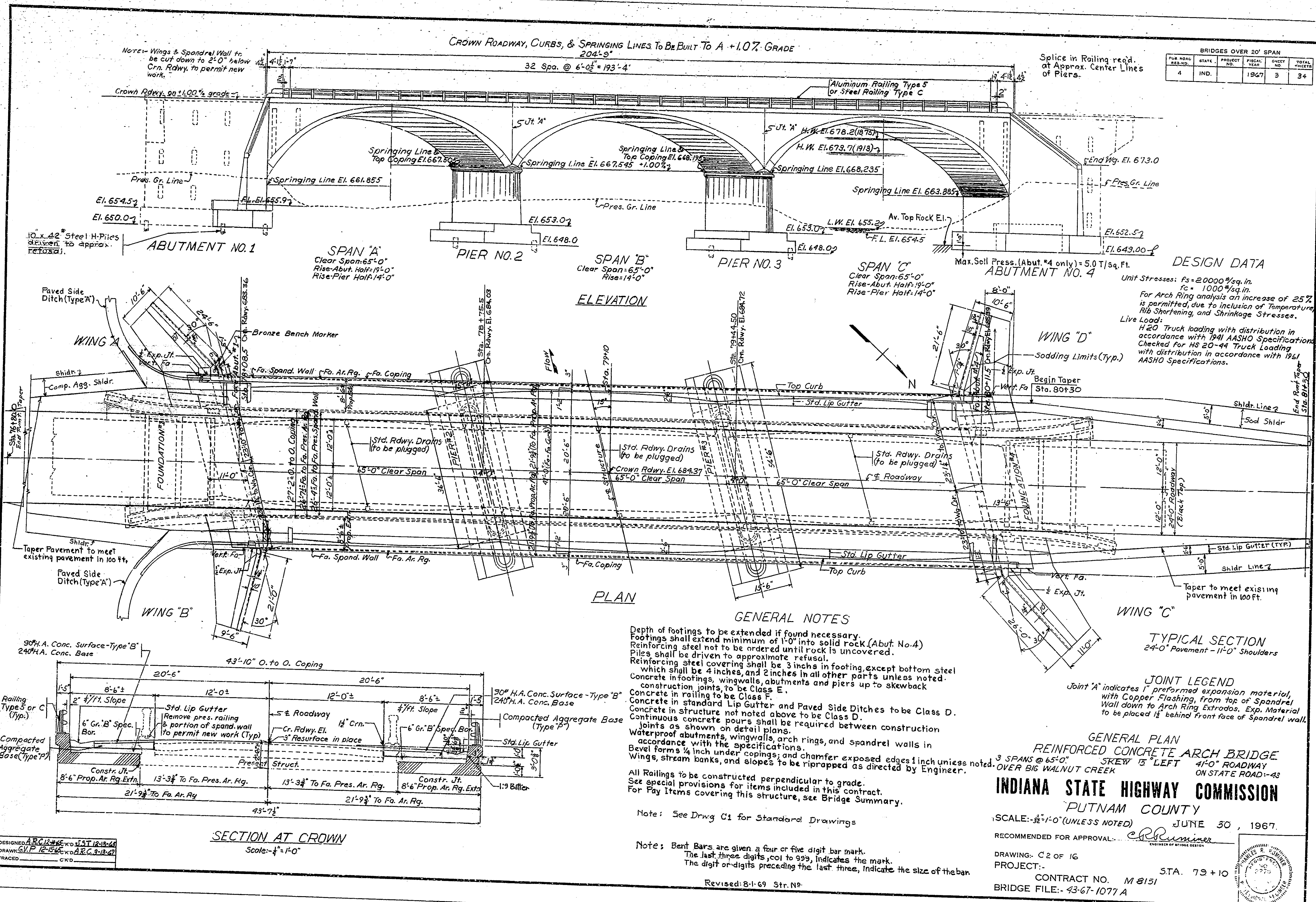
SCALE: AS NOTED
 RECOMMENDED FOR APPROVAL: *[Signature]*
 DRAWING: C1 OF 16
 PROJECT: STA. 79+10
 CONTRACT NO.: M-8151
 BRIDGE FILE: 43-67-1077A

JUNE 30, 1967

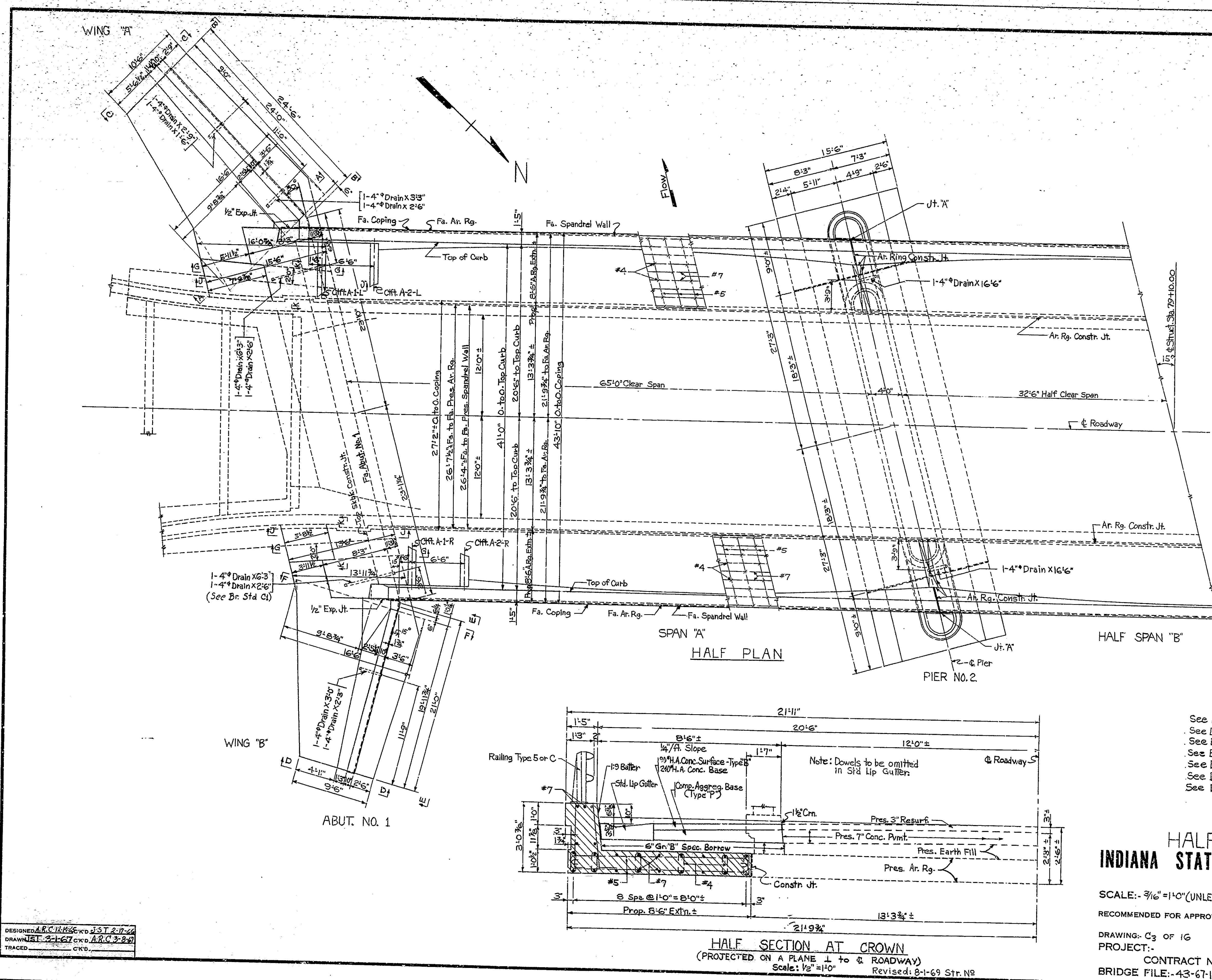
DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 DATE: 12-3-66

Revised: 8-1-69 Sfr. NE, 574's.

FIELD NOTES BOOK-28 #397, PP 1-28



BRIDGES OVER 20' SPAN				
PUB. ROAD DES. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.		1967	34



GENERAL NOTES

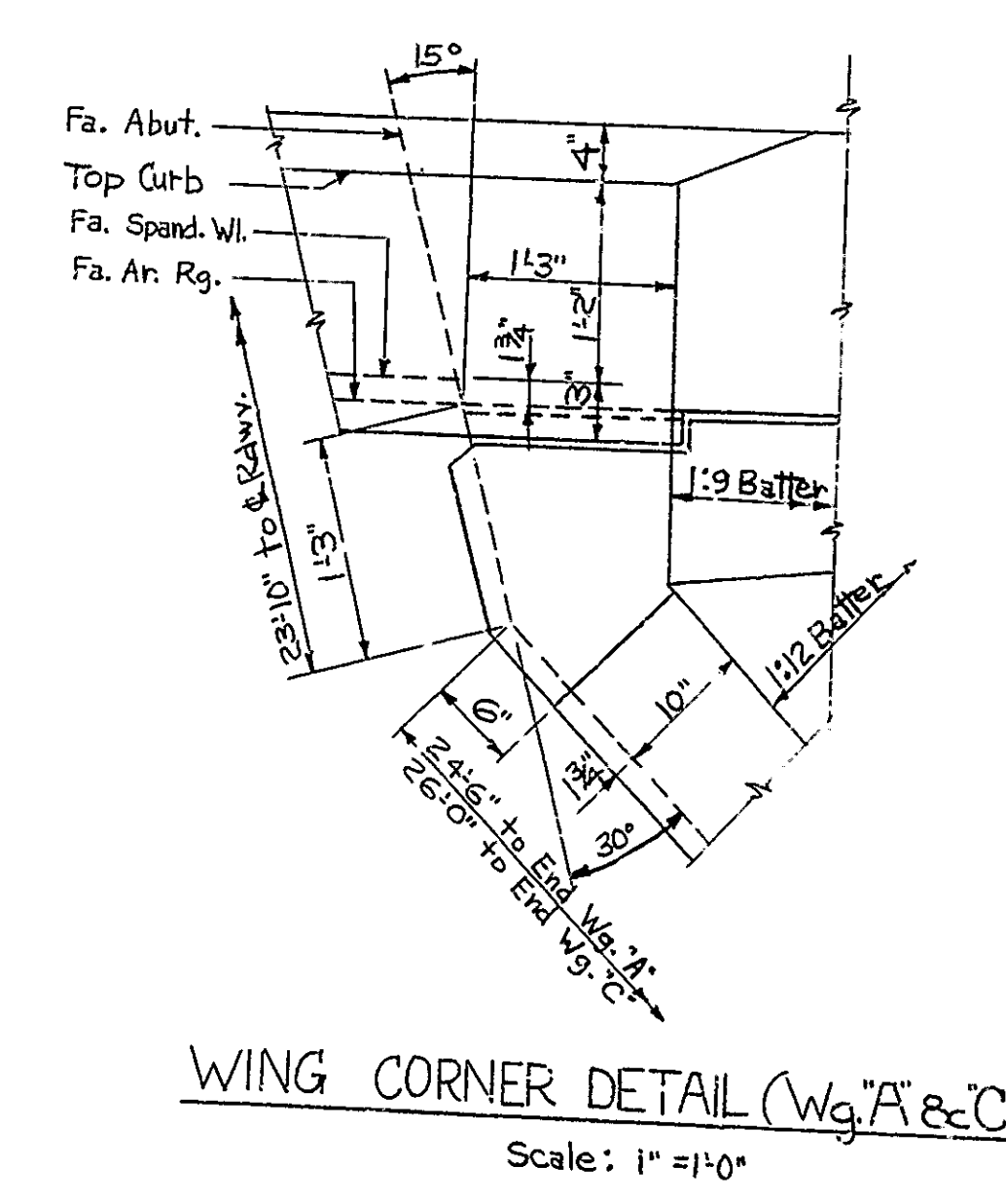
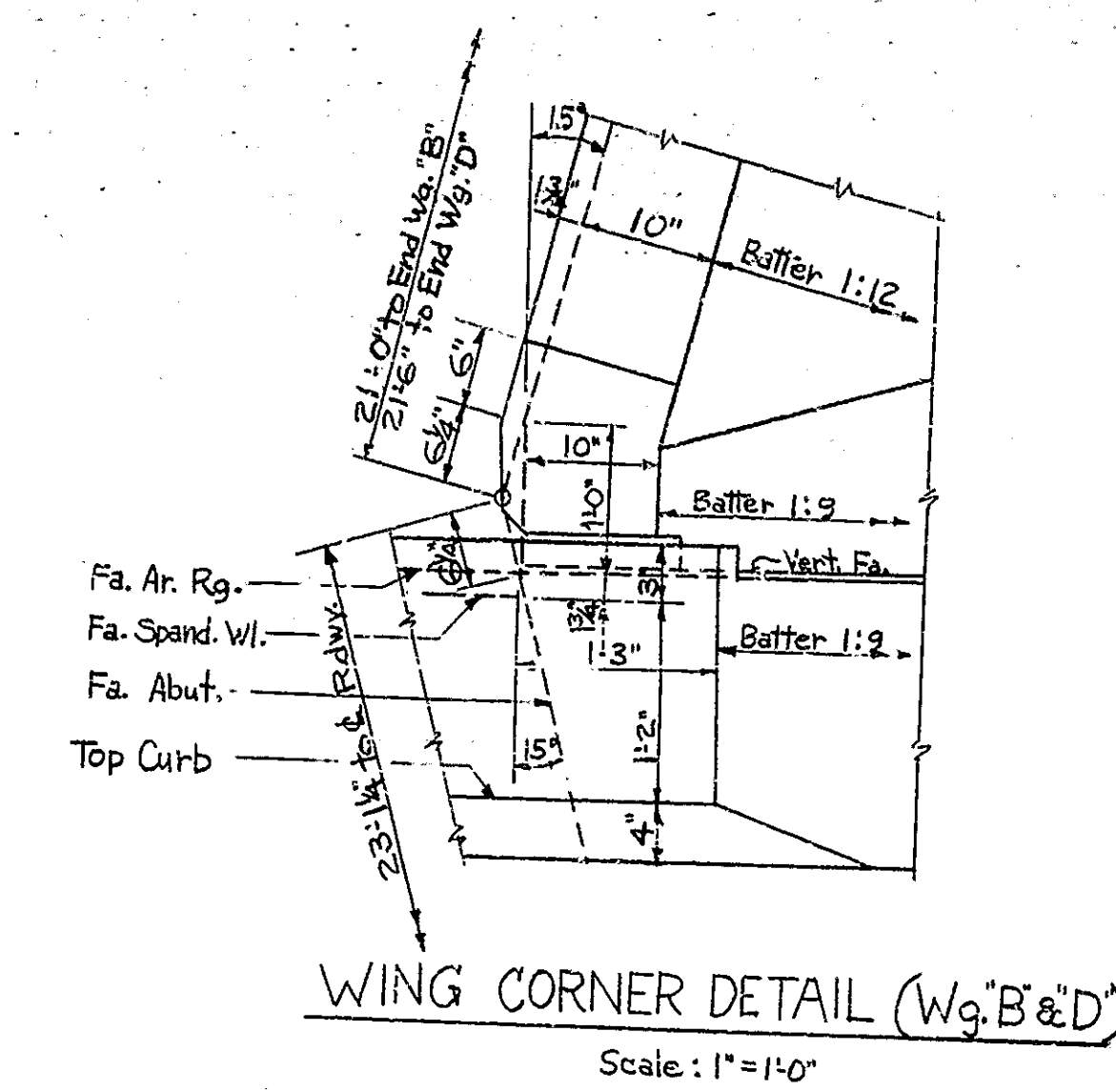
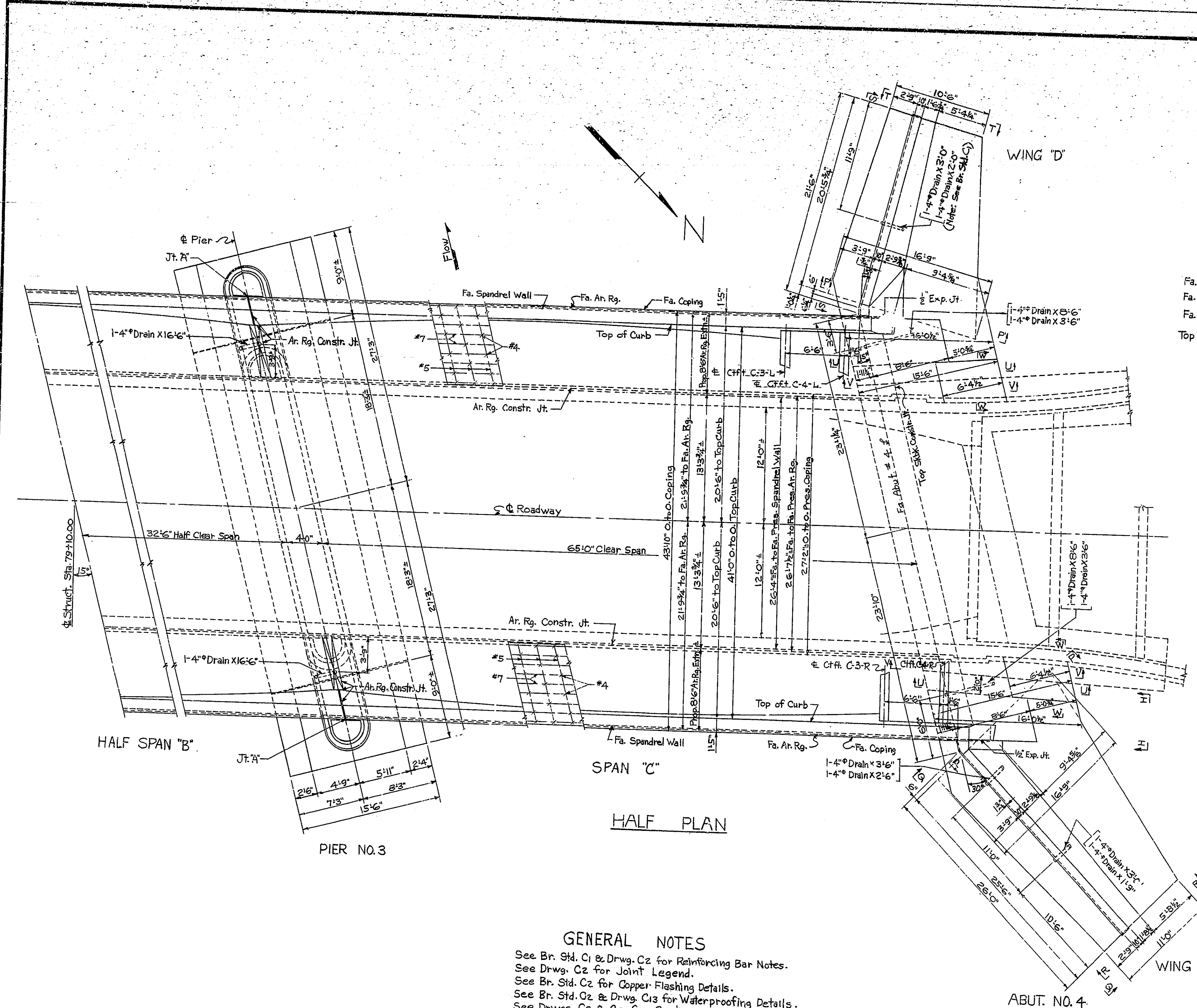
See Br. Std. C1 & Drwg. C2 for Reinf. Bar Notes.
 See Drwg. C2 for Joint Legend.
 See Br. Std. C2 for Copper Flashing Details.
 See Br. Std. C2 & Drwg. C13 for Water-proofing Details.
 See Drwg. C4 for Wing Corner Details.
 See Drwgs. C5 & C6 for Sections.
 See Drwg. C13 for Counterfort Details.

HALF PLAN
INDIANA STATE HIGHWAY COMMISSION

SCALE: $\frac{3}{16}" = 1'-0"$ (UNLESS NOTED) **JUNE 30, 1967**
 RECOMMENDED FOR APPROVAL: *C. R. Rimmer*
 DRAWING: C3 OF 16
 PROJECT: CONTRACT NO. M 8151
 BRIDGE FILE: 43-67-1077A

DESIGNED: A.R.C. 12/26/66
 DRAWN: J.E. 3-1-67
 TRACED: C.K.D.

BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.		1967	5



GENERAL NOTES

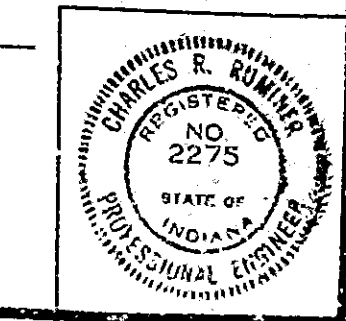
See Br. Std. C1 & Drwg. C2 for Reinforcing Bar Notes.
 See Drwg. C2 for Joint Legend.
 See Br. Std. C2 for Copper Flashing Details.
 See Br. Std. C2 & Drwg. C13 for Waterproofing Details.
 See Drwgs. C8 & C9 for Sections.
 See Drwg. C12 for Sect. H-H.
 See Drwg. C13 for Counterfort Details.

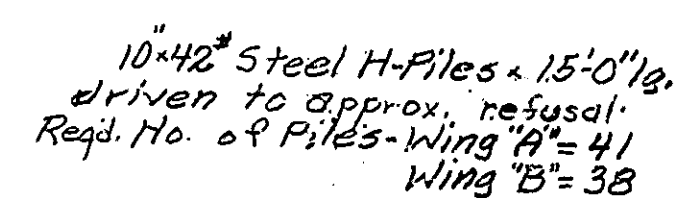
DESIGNED: A.R.C. & C.W.D. JST 2-17-66
 DRAWN: JST 3-7-67 C.W.D. A.R.C. 2-14-67
 TRACED: C.W.D.

Revised: 8-1-69 Str. No.

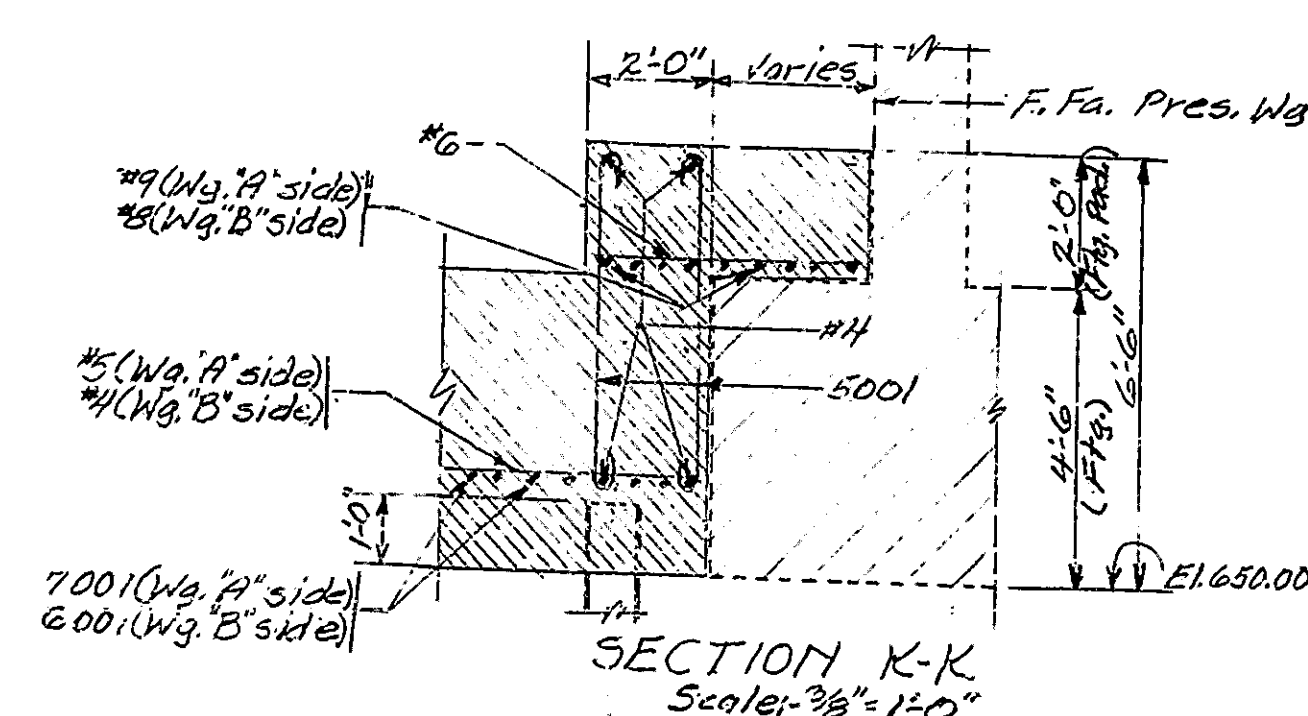
HALF PLAN
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/16" = 1'-0" (UNLESS NOTED) JUNE 30, 1967
 RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
 DRAWING: C 4 OF 16
 PROJECT: CONTRACT NO. M 8151
 BRIDGE FILE: 43-67-1077A





GENERAL NOTES
See Br. Std C; & Drwg. C2 for reinforcing bar notes.

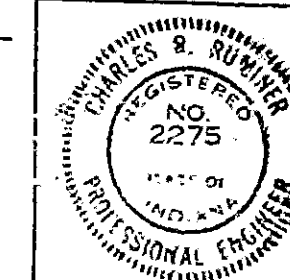


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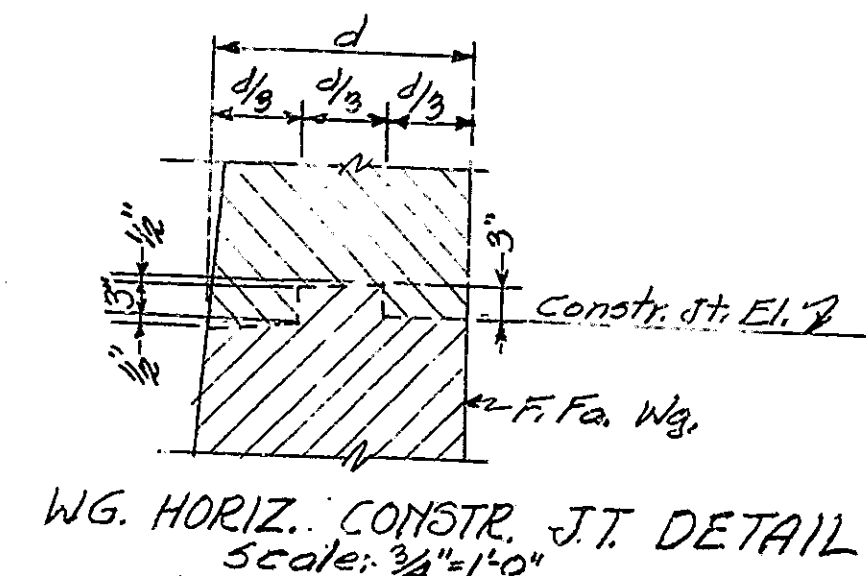
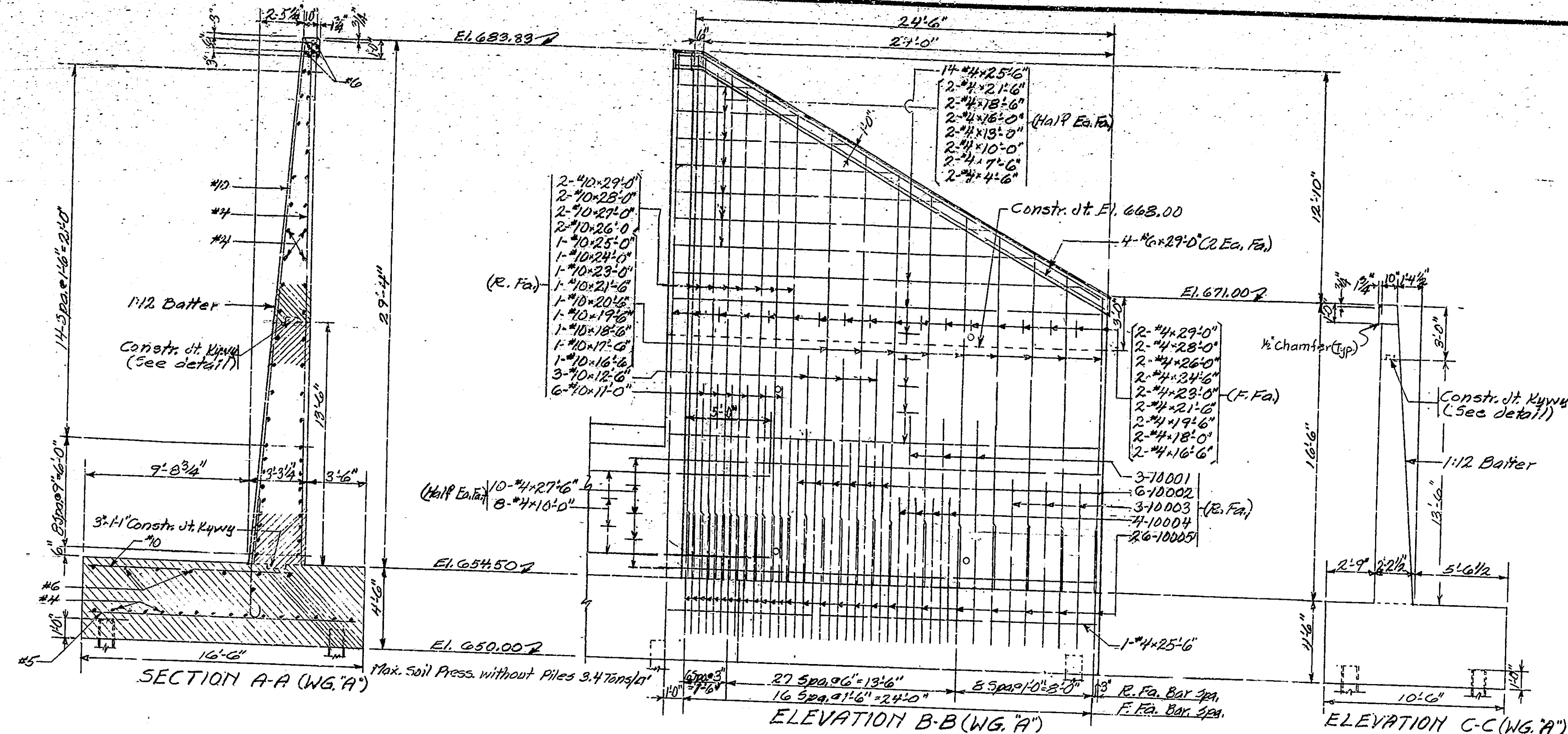
RECOMMENDED FOR APPROVAL: C. R. Rummel

DRAWING:- C5 OF 16
PROJECT:-

CONTRACT NO. M8151
BRIDGE FILE:- 43-67-1077A



BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	SHEETS
4	IND.		1967	7	34



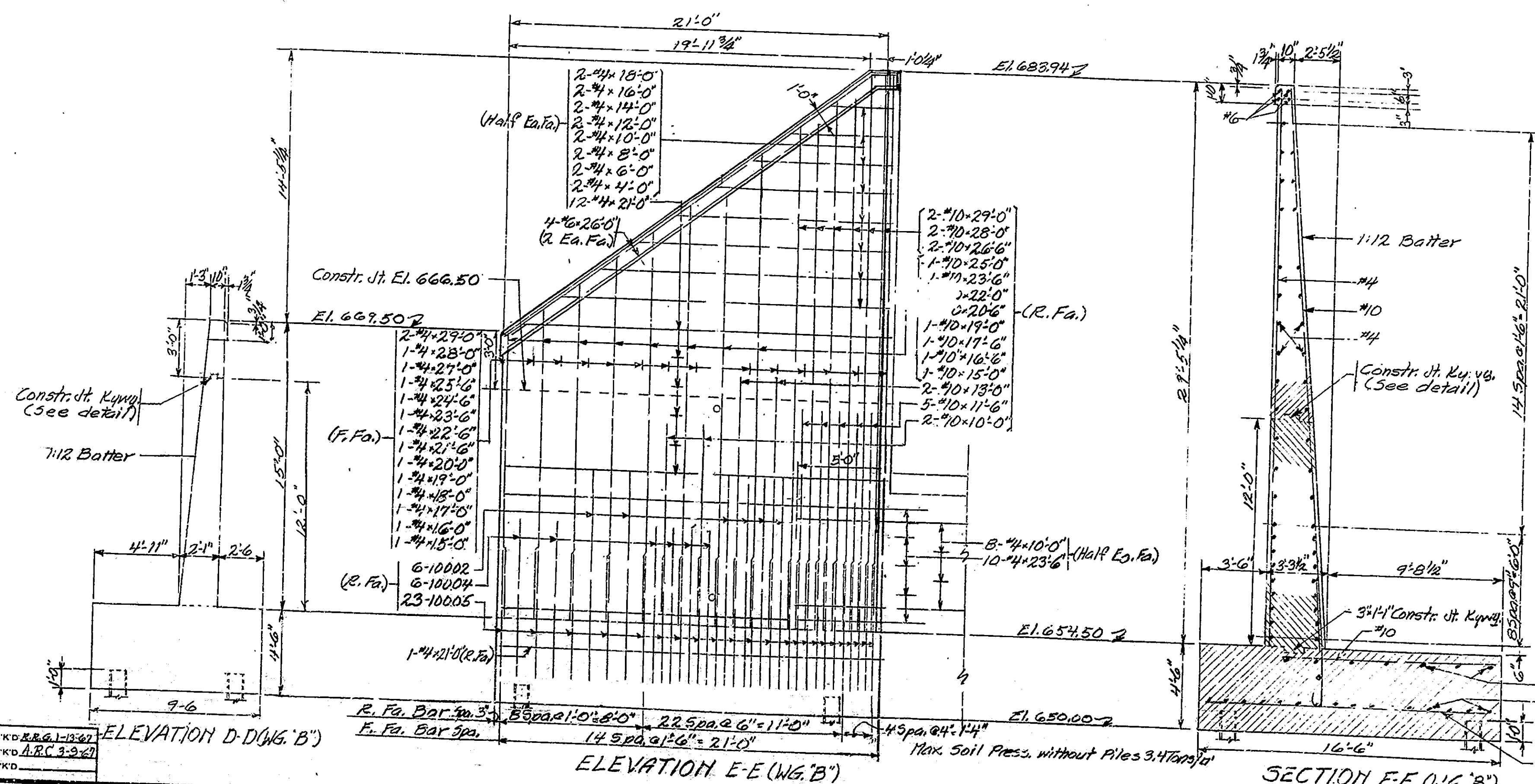
GENERAL NOTES

See Br. Std. C1 & Drwg. C2 for Reinf. Bar Notes.

See Br. Std. C2 for Copper Flashing and Waterproofing Details.

See Drwg. C3 for Location of Sections.

See Drwg. C4 for Wing Corner Details.



WINGS "A" & "B" DETAILS

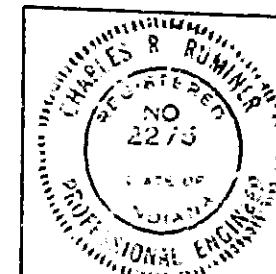
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4"=1'-0" (UNLESS NOTED) JUNE 30, 1967

RECOMMENDED FOR APPROVAL: [Signature]

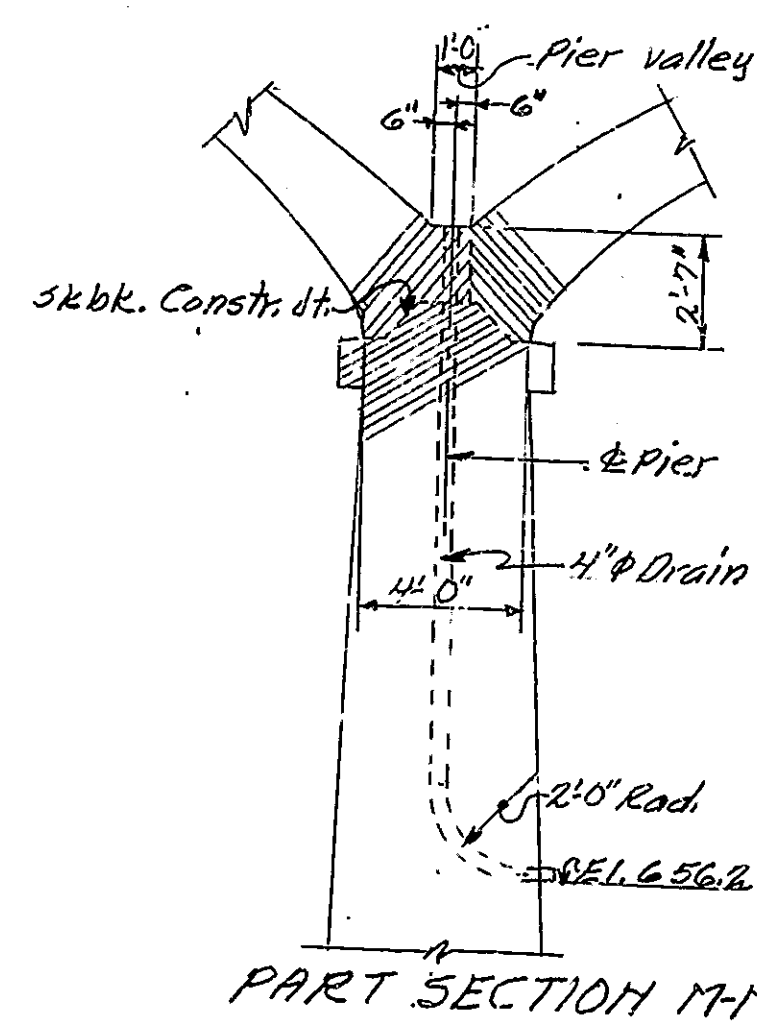
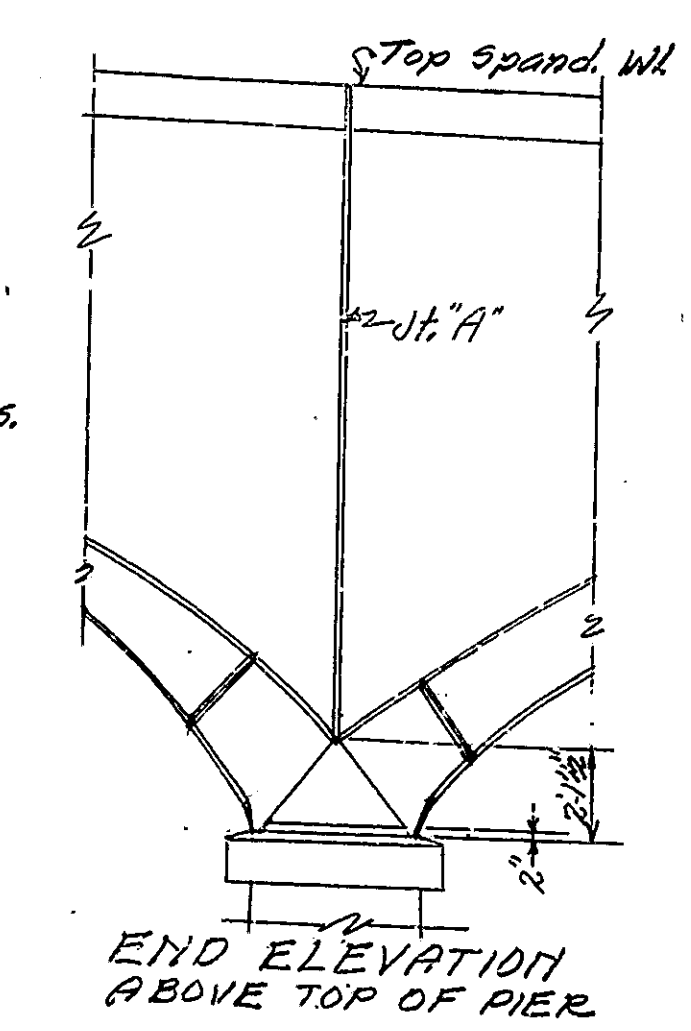
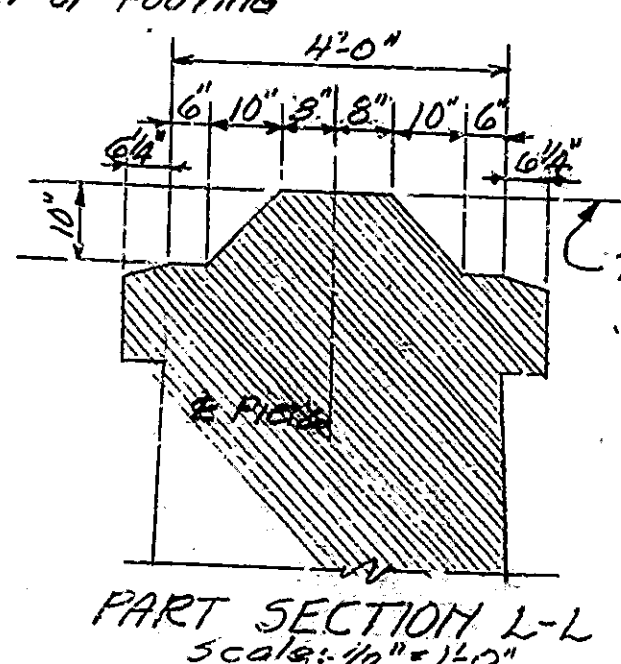
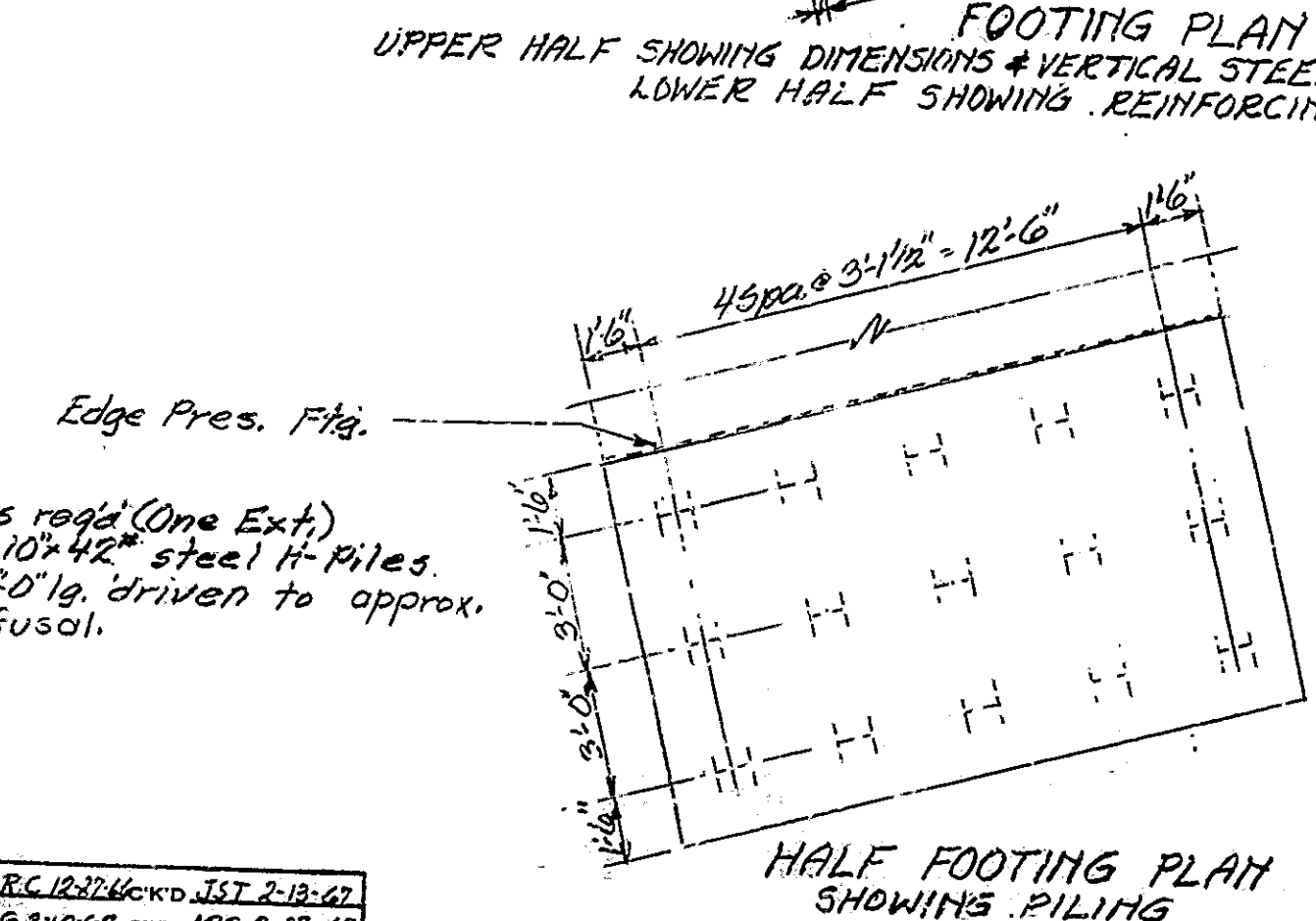
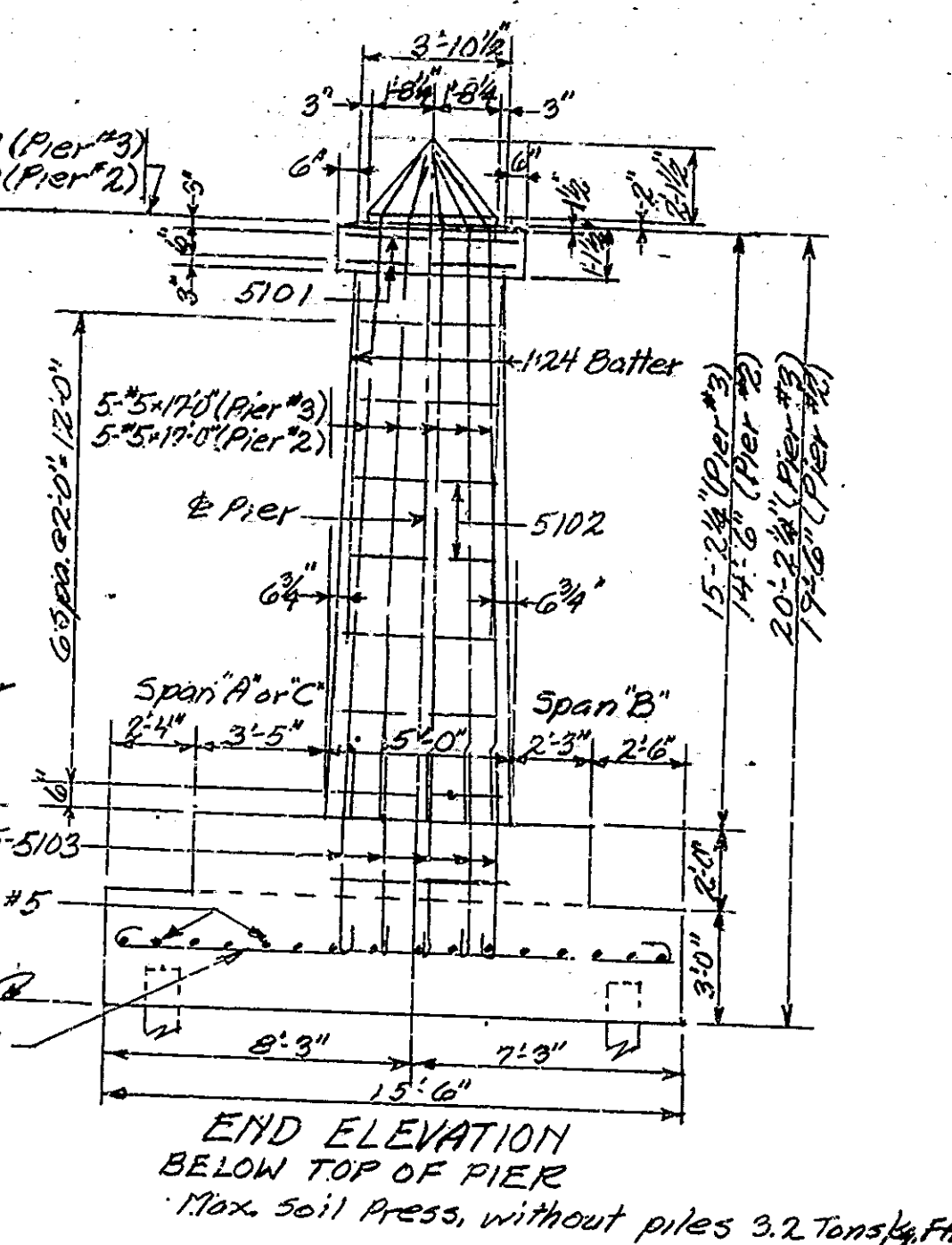
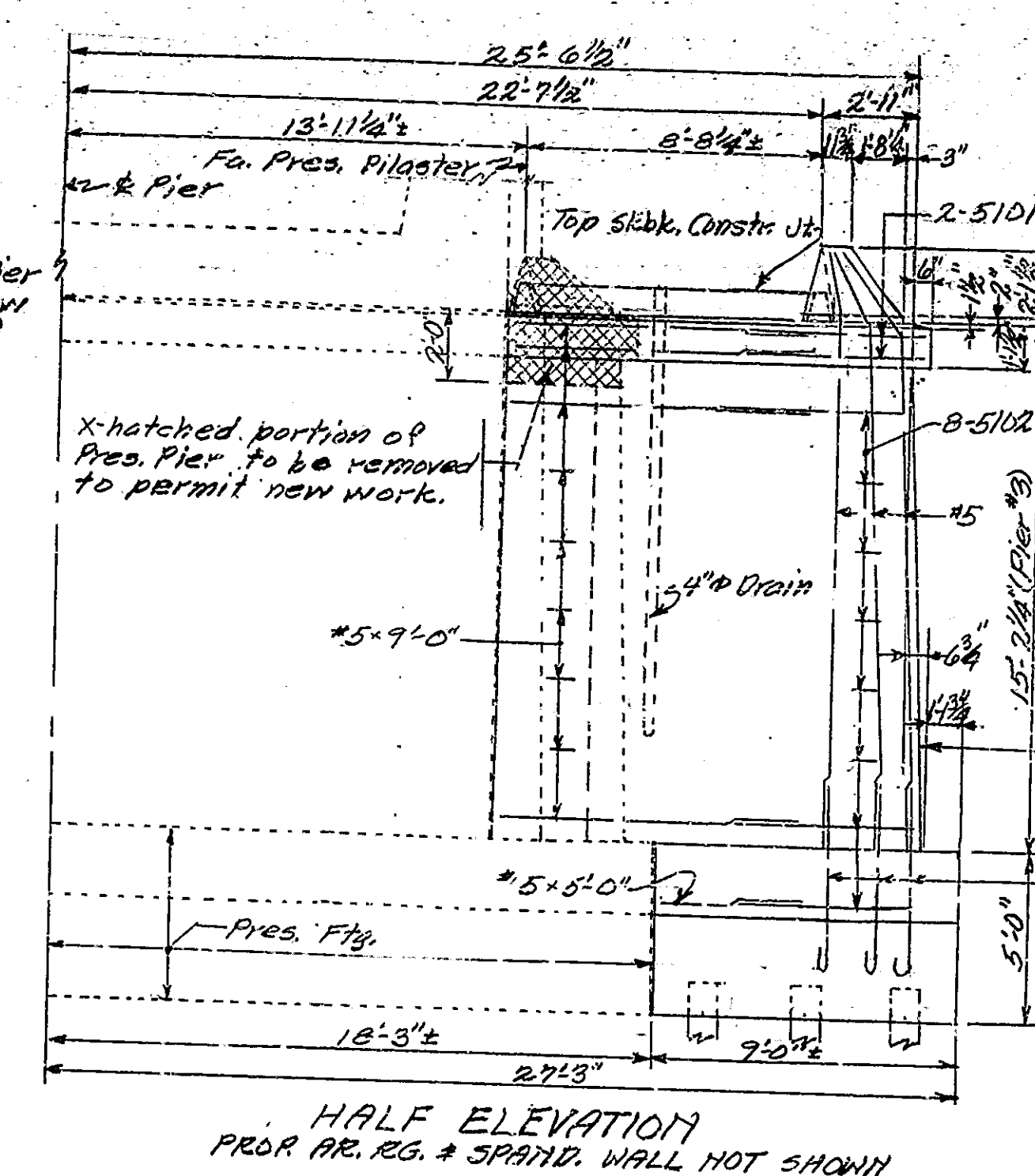
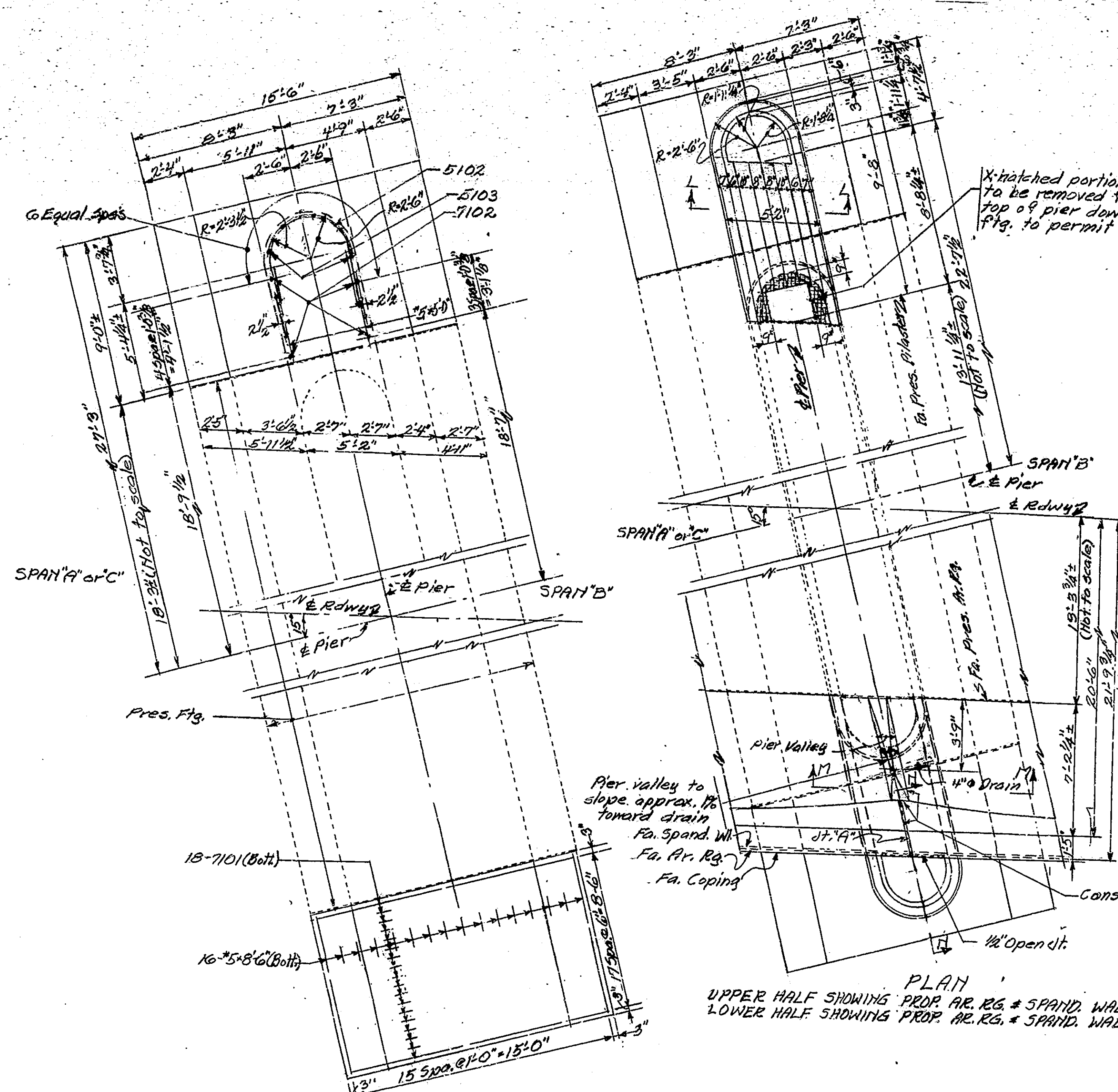
DRAWING: C6 OF 16

PROJECT: CONTRACT NO. M-8151
BRIDGE FILE: 43-67-1077A



Revised: 8-1-69 Str. NS

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	SHEETS
4	IND.		1967	8	24



GENERAL NOTES
See Br. Std. C₁ & Drwg. C₂ for Reinforced Bar Notes.
See Br. Std. C₂ for Copper Flashing Details.
See Drwg. C₂ for Joint Legend.
See Drwgs. C₁₀ & C₁₂ for Additional Pier Details.
See Drwg. C₁₃ for Elevation Diagram.

PIERS #12 & #13 DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0" (UNLESS NOTED) JUNE 30, 1967
RECOMMENDED FOR APPROVAL: [Signature]
DRAWING: C7 OF 16
PROJECT: CONTRACT NO. M 3151
BRIDGE FILE: 43-61-1077A

DESIGNED: R.C. 12/24/66 JLT 2-13-67
DRAWN: R.G. 8-10-67 CKD 4/28/67 R.JT-67
TRACED: CKD

Revised: 8-1-69 Str. No.

PUB. ROAD REG.NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
4	IND.		1967	9	34



GENERAL NOTES
See Br. Std. C₁ & Drwg. C₂ for Reinforcing Bar notes

INDIANA STATE HIGHWAY COMMISSION

SCALE:- $\frac{1}{4}" = 1'-0"$ (UNLESS NOTED)
RECOMMENDED FOR APPROVAL: _____
DRAWING: C8 OF 16
PROJECT:-
CONTRACT NO. M-8
BRIDGE FILE:- 43-67-1077A

JUNE 30, 196

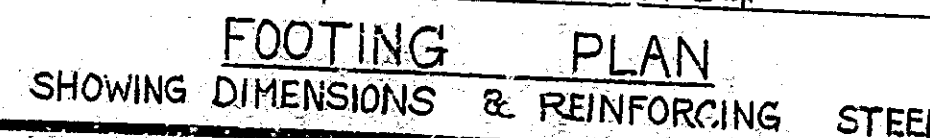
RECOMMENDED FOR APPROVAL: CR Ruminos

DRAWING:- C₈ OF 16

PROJECT:-

CONTRACT NO. 1
BRIDGE FILE: 43-67-1077

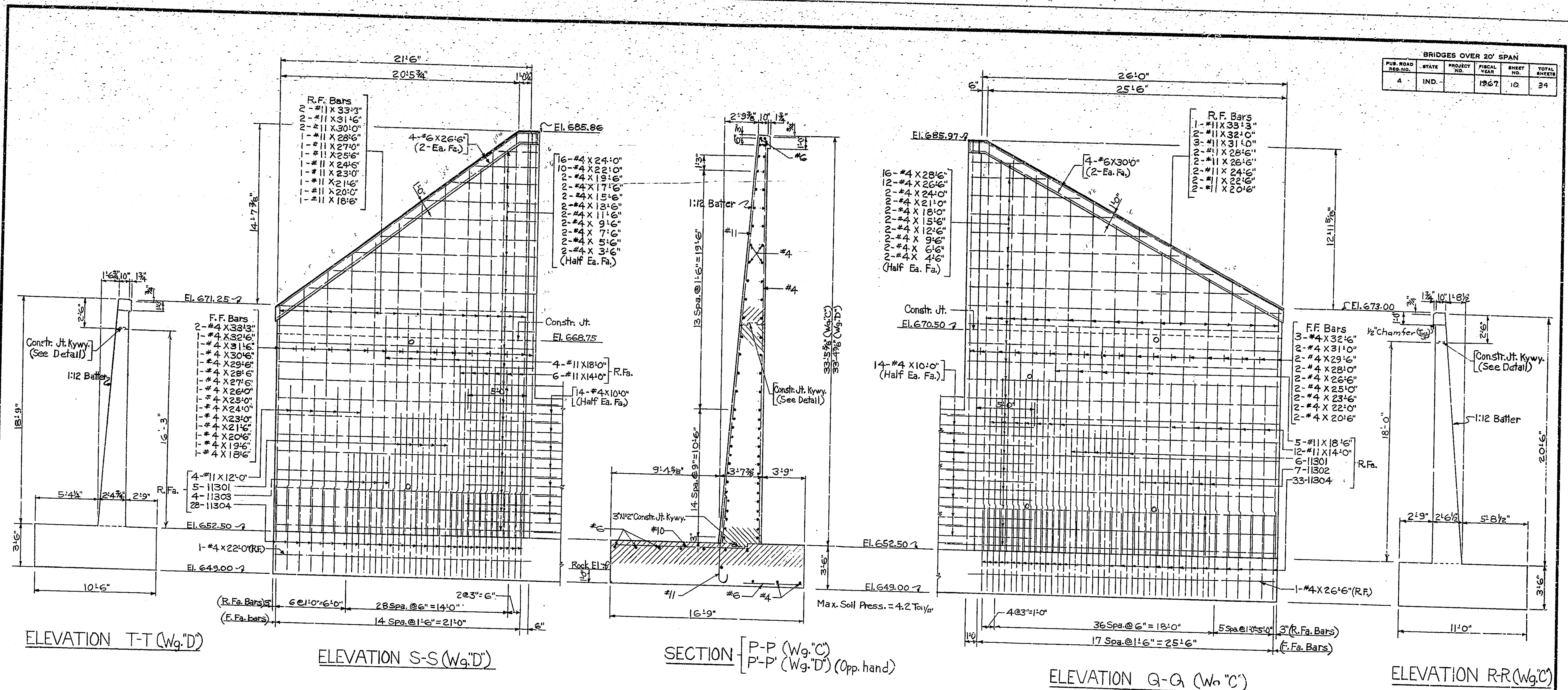
A circular professional engineer seal for Charles R. Rumber, State of Indiana, No. 2275. The seal features the text "CHARLES R. RUMBER" at the top, "REGISTERED" and "NO. 2275" in the center, and "STATE OF INDIANA" and "PROFESSIONAL ENGINEER" at the bottom.



DESIGNED R.P.G. 12-12-66 C'K'D JST 12-22-66
DRAWN JST 2-1-67 C'K'D ARC 2-8-67
TRACED _____ C'K'D _____

Revised 8-1-69 Str. No

BRIDGES OVER 20' SPAN					
PUR. ROAD REQ. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.		1967	10	34



GENERAL NOTES

See Br. Std. C1 & Drug. C2 for Reinf. Bar Notes.

See Br. Std. C2 for Copper Flashing and Waterproofing Details.

See Drwg. C4 for Location of Sections and Wing Corner Details.

See Drwg. C6 for Horizontal Wing Constr. Jt. Details.

WINGS "C" & "D" DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0" (UNLESS NOTED)

JUNE 30, 1967

RECOMMENDED FOR APPROVAL: *C.R. Sumner*

DRAWING: G9 OF 16

PROJECT: CONTRACT NO. M-8151

BRIDGE FILE: 4-3-67-1077A

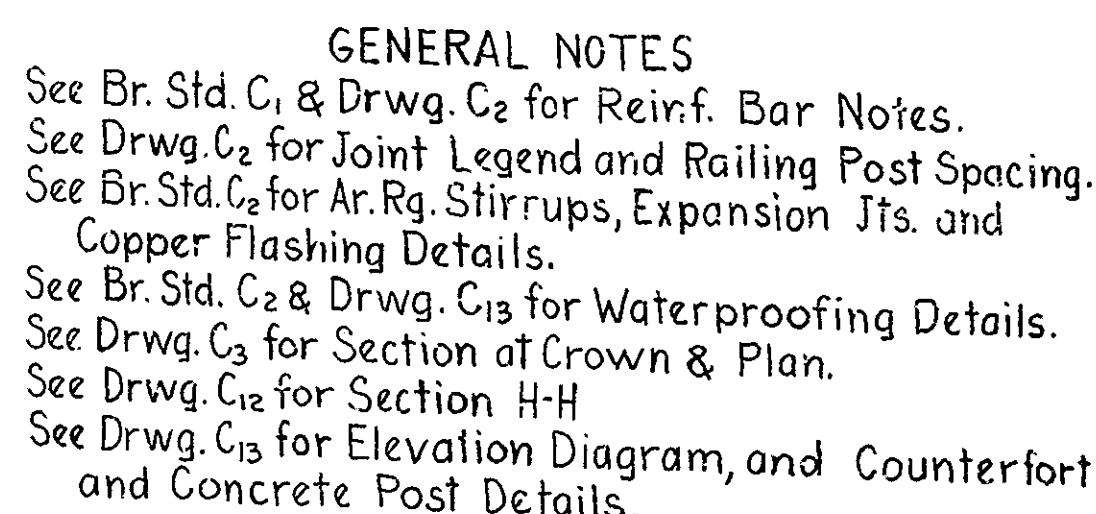
DESIGNED BY: J. L. 12-14-66 W.D. ARC. 1-6-67

DRAWN BY: J. L. 2-10-67 C.K.D. ARC. 3-14-67

TRACED: C.K.D.

Revised: 8-1-69 Str. No.

NOTE: Reinforcing Bars are Billed for One Extension Only.
All Dimensions to Arch Ring are Measured Parallel
or Perpendicular to Springing Line.
Vert. Rear Face Spandrel Wall Steel to be Set on Skew.



SPAN "A" DETAILS
STATE HIGHWAY COMMISSION

SCALE:- $\frac{1}{4}'' = 1'-0''$ - 45E 30 1003

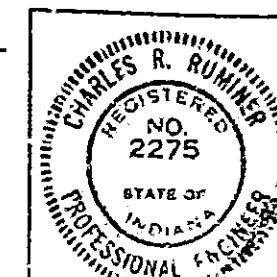
RECOMMENDED FOR APPROVAL: CR Reminger

DRAWING:- C₁₀ OF 16

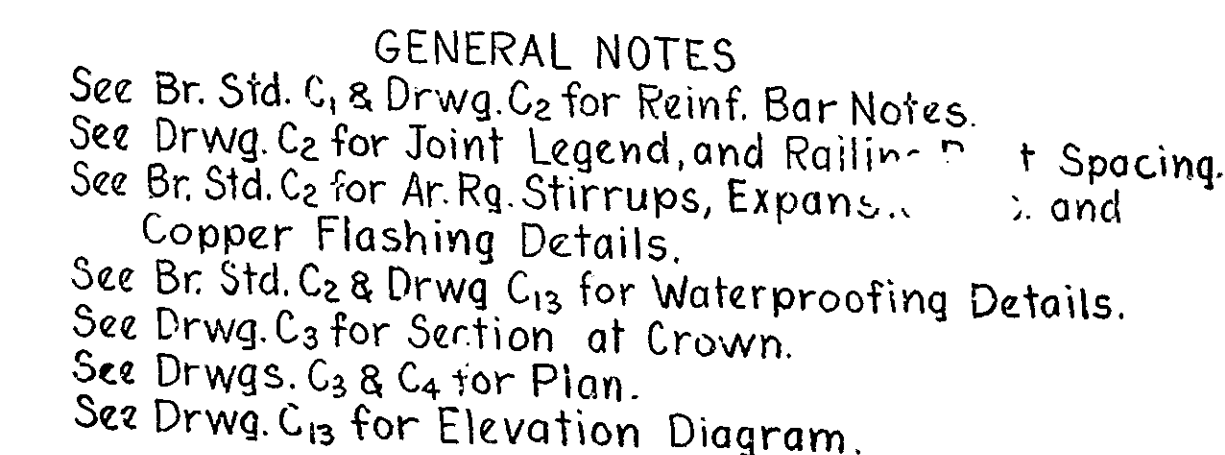
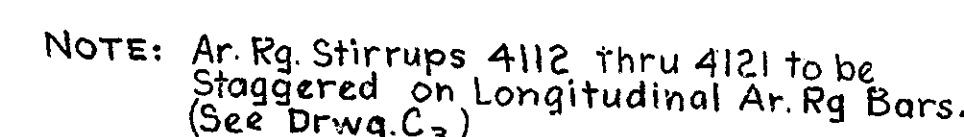
PROJECT:-

CONTRACT NO. M 8151

BRIDGE FILE:- 43-67-1077A



NOTE: Reinforcing Bars are Billed for One Extension Only.
All Dimensions to Arch Ring are Measured Parallel
or Perpendicular to Springing Line.
Vert. Rear Face Spandrel Wall Steel to be Set on Skew.



JUNE 30, 1967

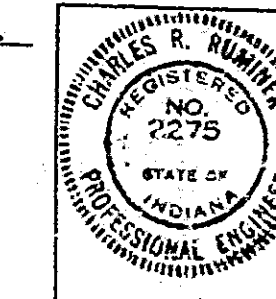
RECOMMENDED FOR APPROVAL :

DRAWING:- C₁₁ OF 16

PROJECT:-
CONTRACT NO. MCHB/54

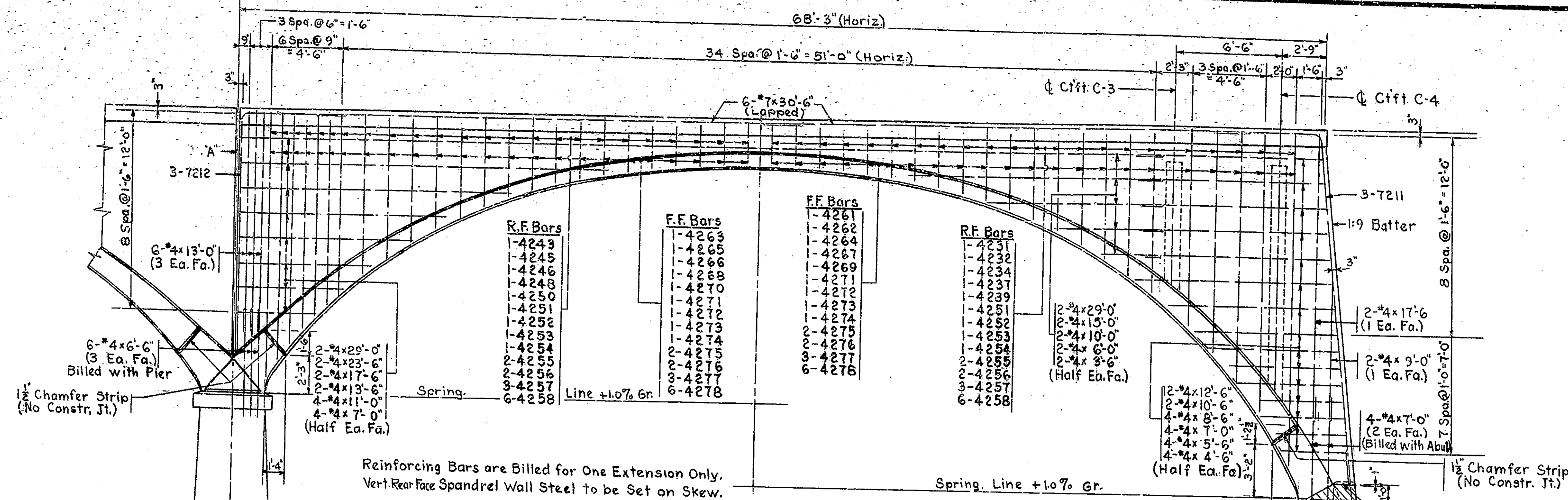
BRIDGE FILE:- 43-67-1077A

Revised: 8-1-69 Str. No.



DESIGNED _____ C'K'D _____
DRAWN ELM 1-17-67 C'K'D ARC. 1-8-6
TRACED _____ C'K'D _____

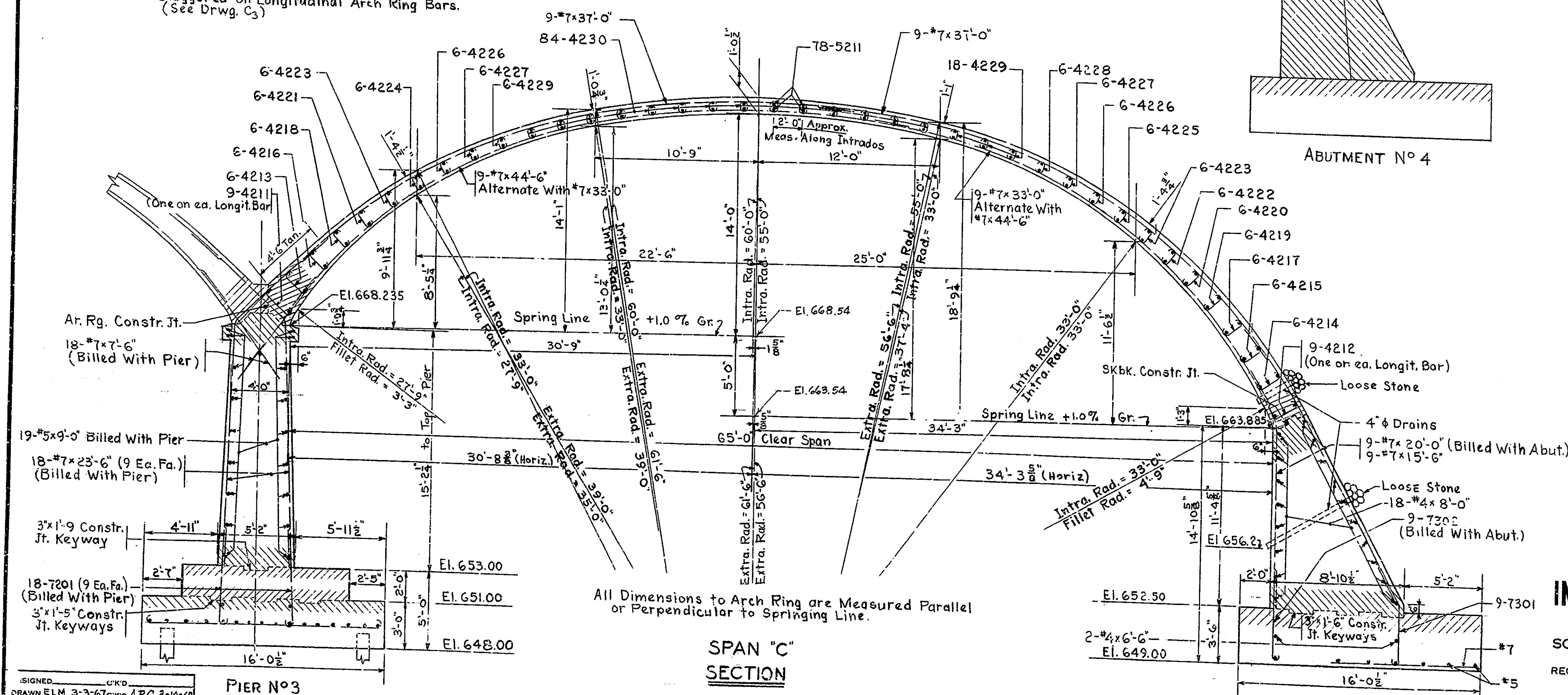
BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	SHEETS
4	IND.		1967	13	34



PIER N°3

SPAN "C"
ELEVATION

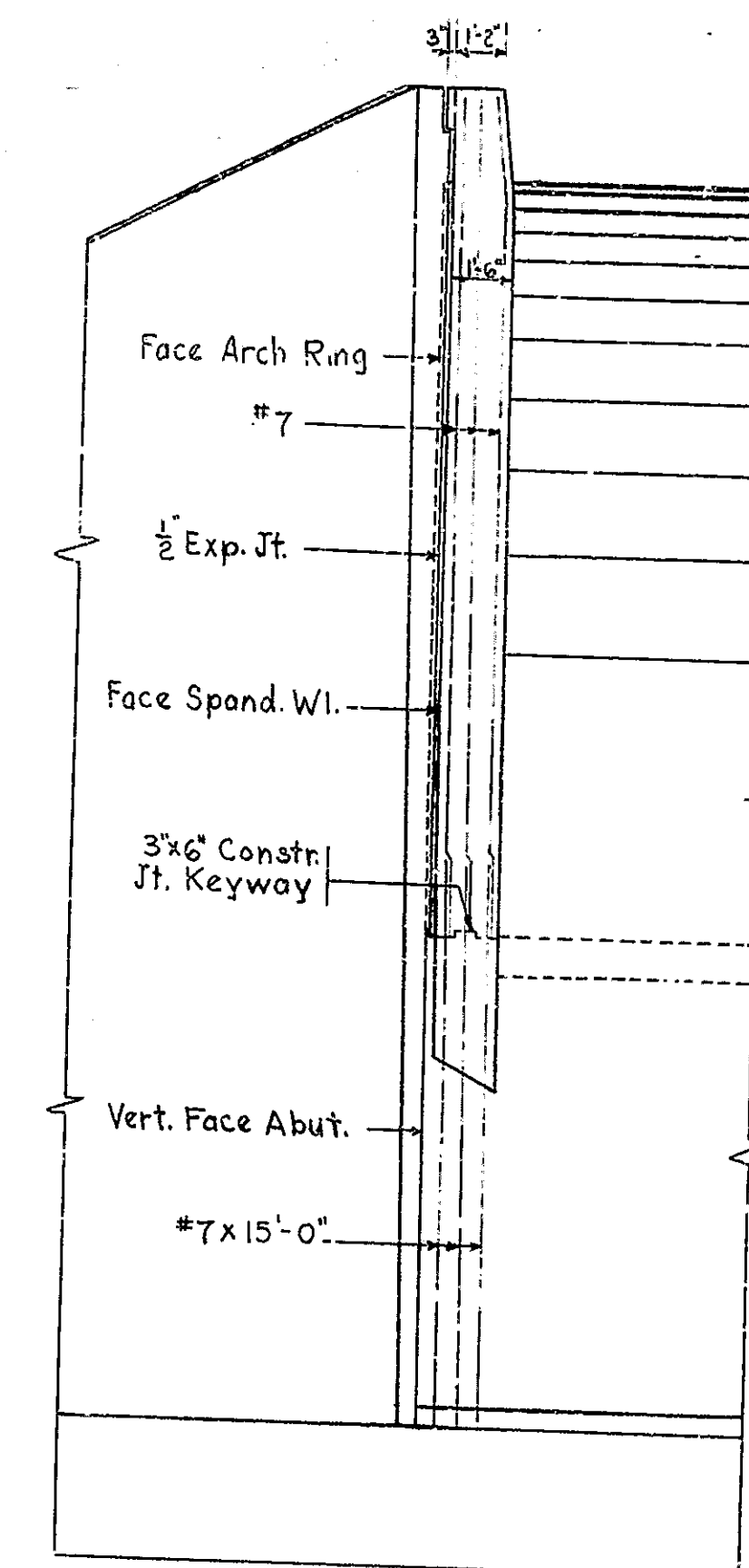
NOTE: Arch Ring Stirrups 4213 Thru 4230 to be Staggered on Longitudinal Arch Ring Bars. (See Drwg. C₃)



PIER N°3

SPAN "C"
SECTION

All Dimensions to Arch Ring are Measured Parallel or Perpendicular to Springing Line.



ELEVATION H-H

GENERAL NOTES
See Br. Std. C₁ & Drwg. C₂ for Reinforcing Bar Notes.
See Drwg. C₂ for Joint Legend and Railing Post Spacing.
See Br. Std. C₂ for Ar. Rg. Stirrups, Expansion Joints, and Copper Flashing Details.
See Br. Std. C₂ and Drwg. C₃ for Waterproofing Details.
See Drwg. C₃ for Section at Crown.
See Drwg. C₄ for Plan.
See Drwg. C₁₃ for Elevation Diagram, and Counterfort and Concrete Post Details.

SPAN "C" DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1" = 1'-0"

JUNE 30, 1967

RECOMMENDED FOR APPROVAL: *C.R. Rimmer*

DRAWING: C₁₂ OF 16

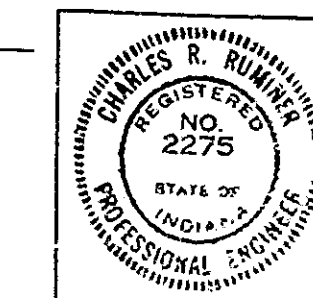
PROJECT: -

CONTRACT NO. M-8151

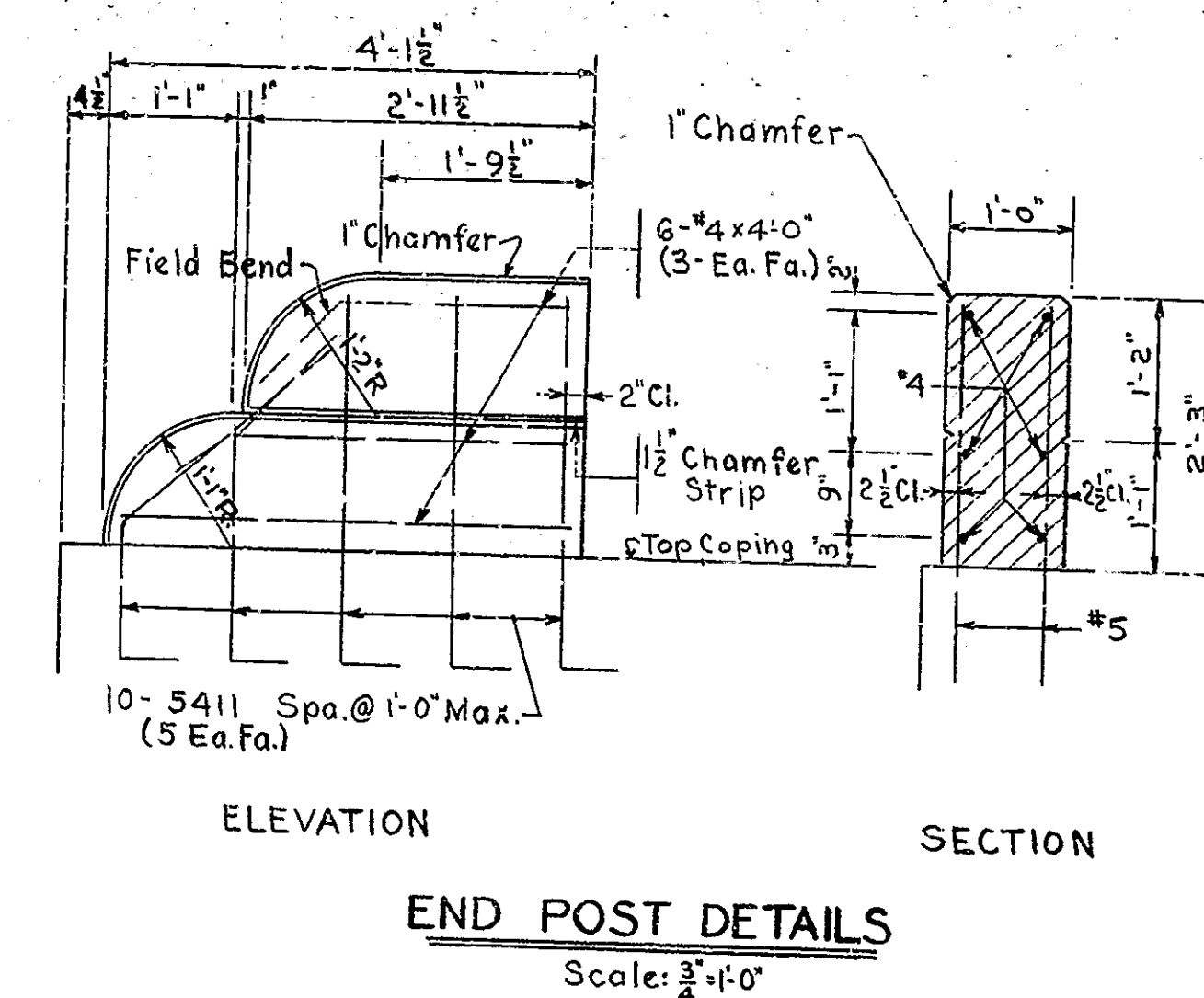
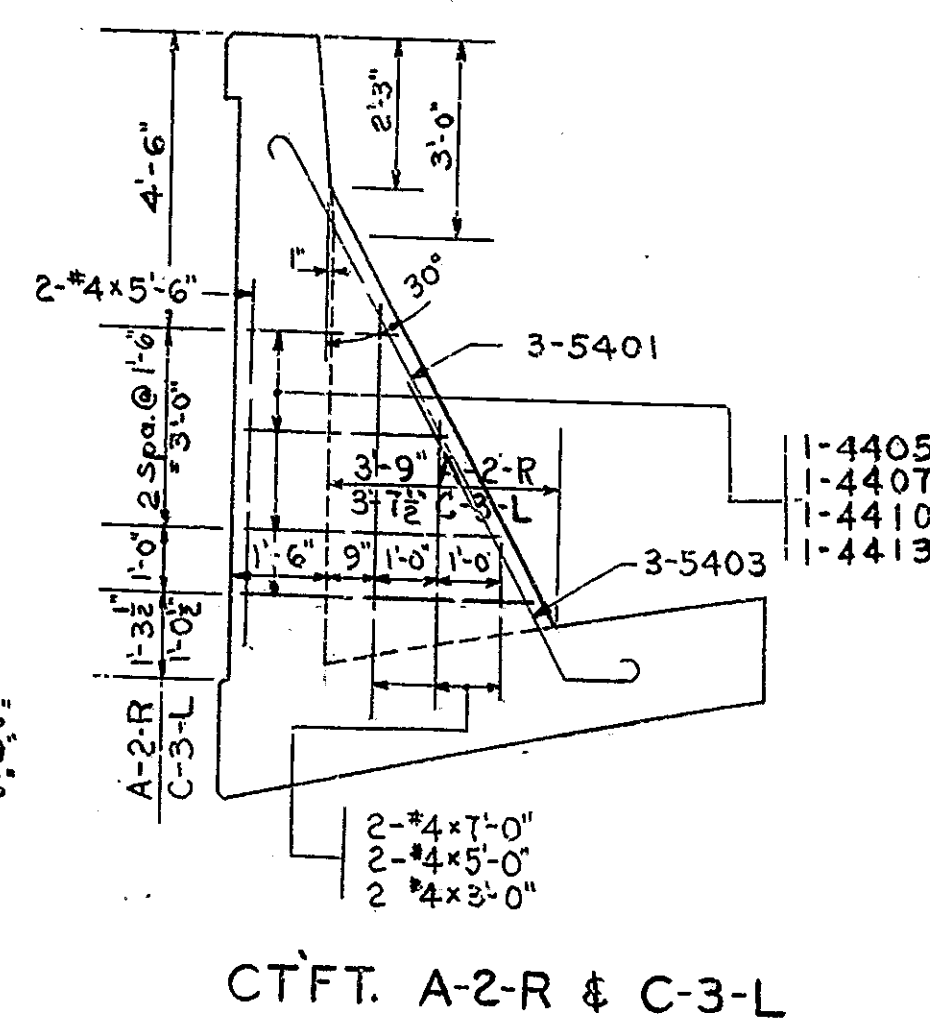
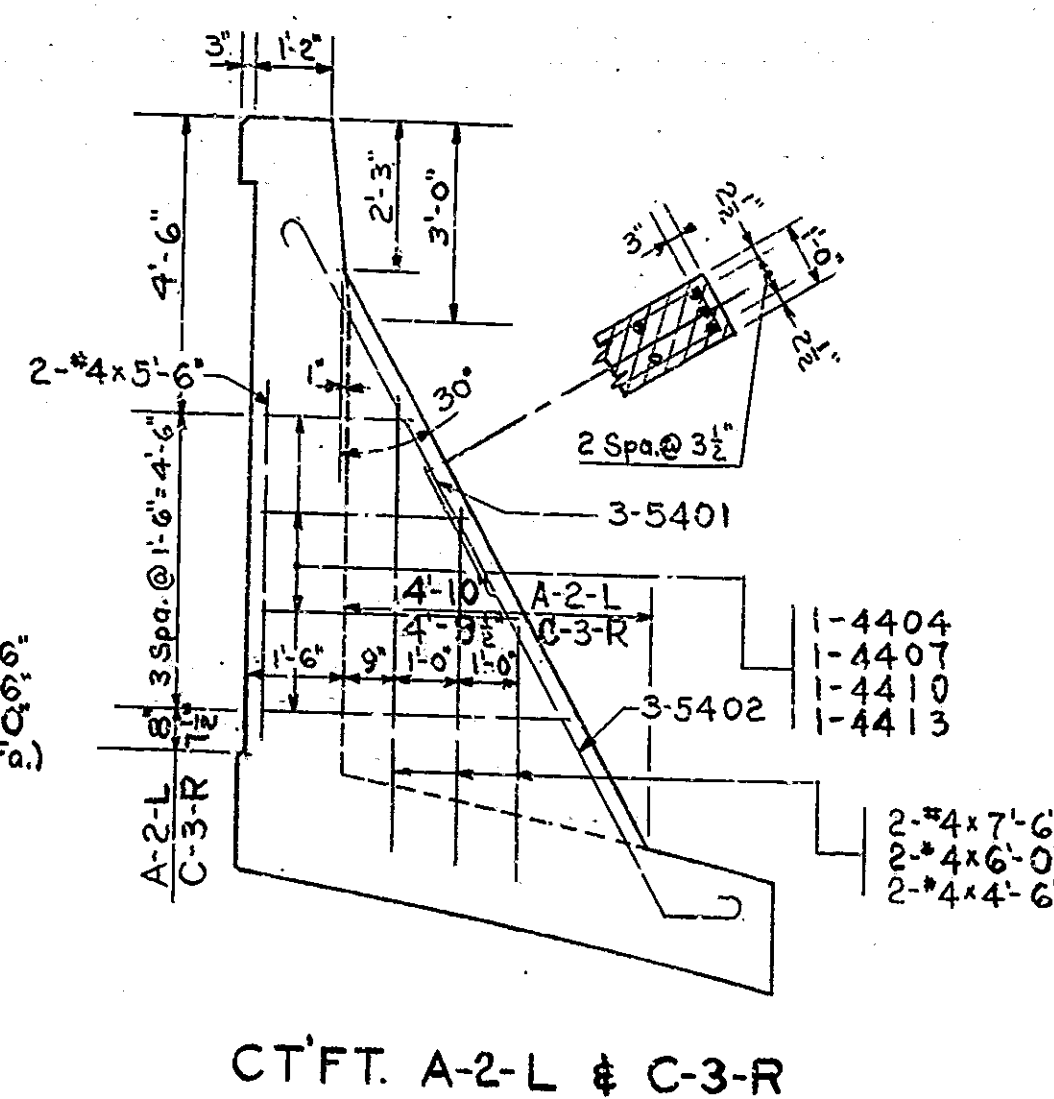
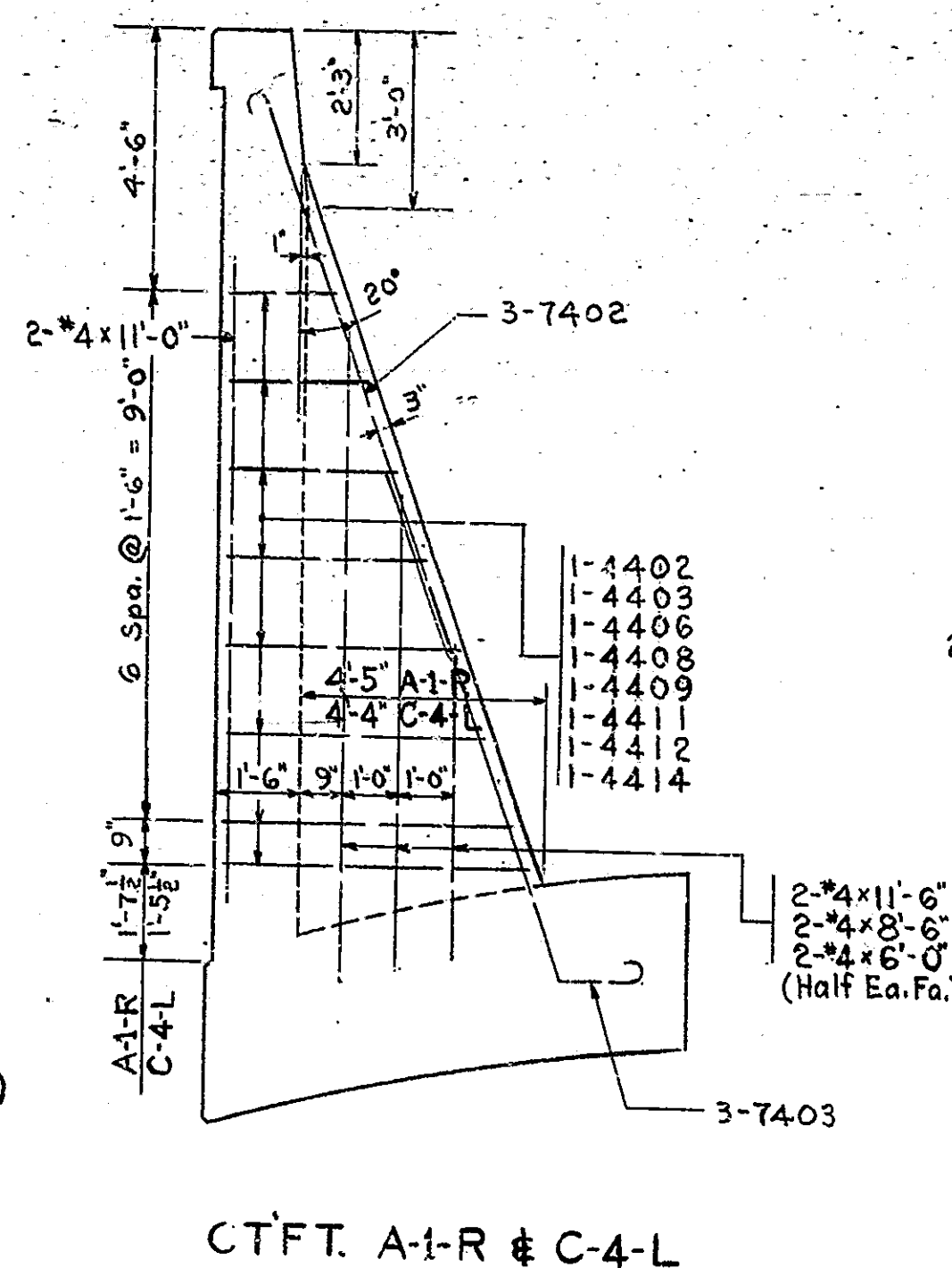
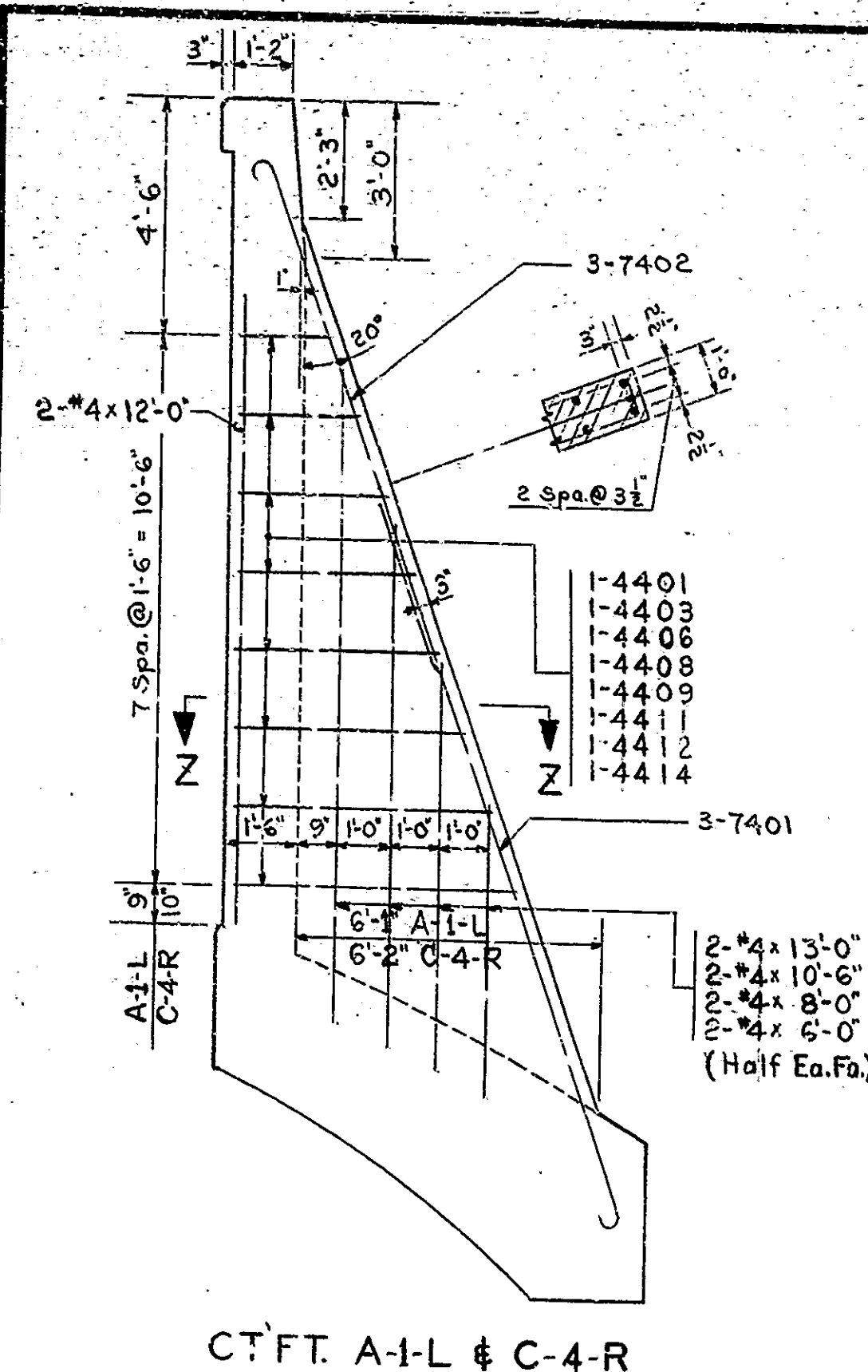
BRIDGE FILE: 43-67-1077A

Revised: 8-1-69 Str. No.

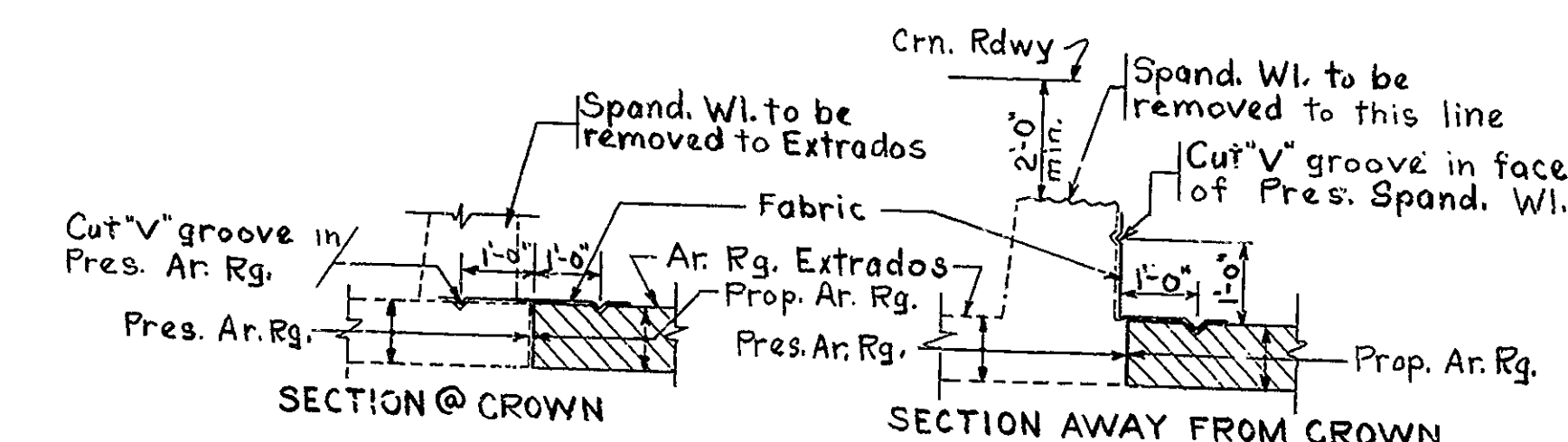
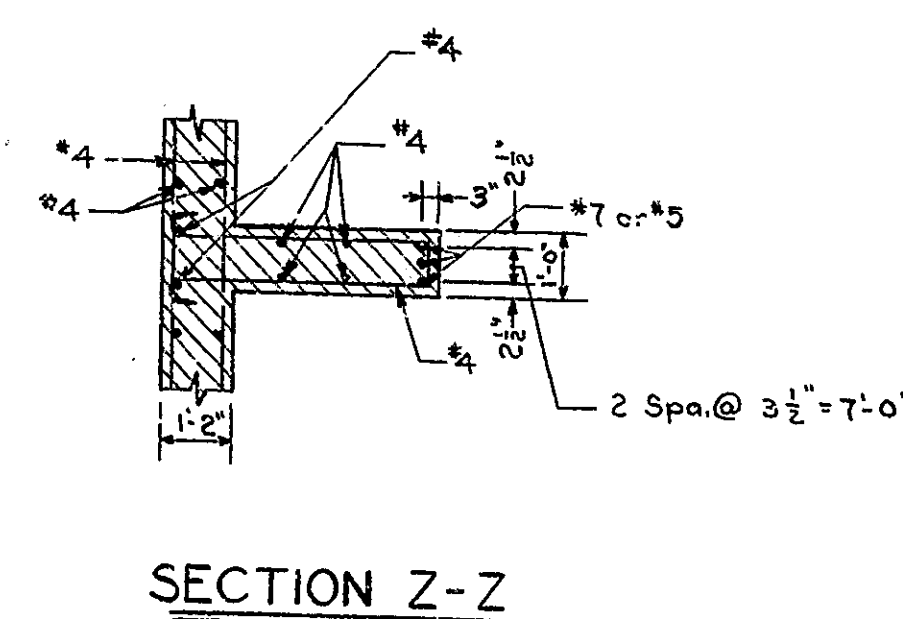
Max. Soil Press. = 5 Tons/ft²



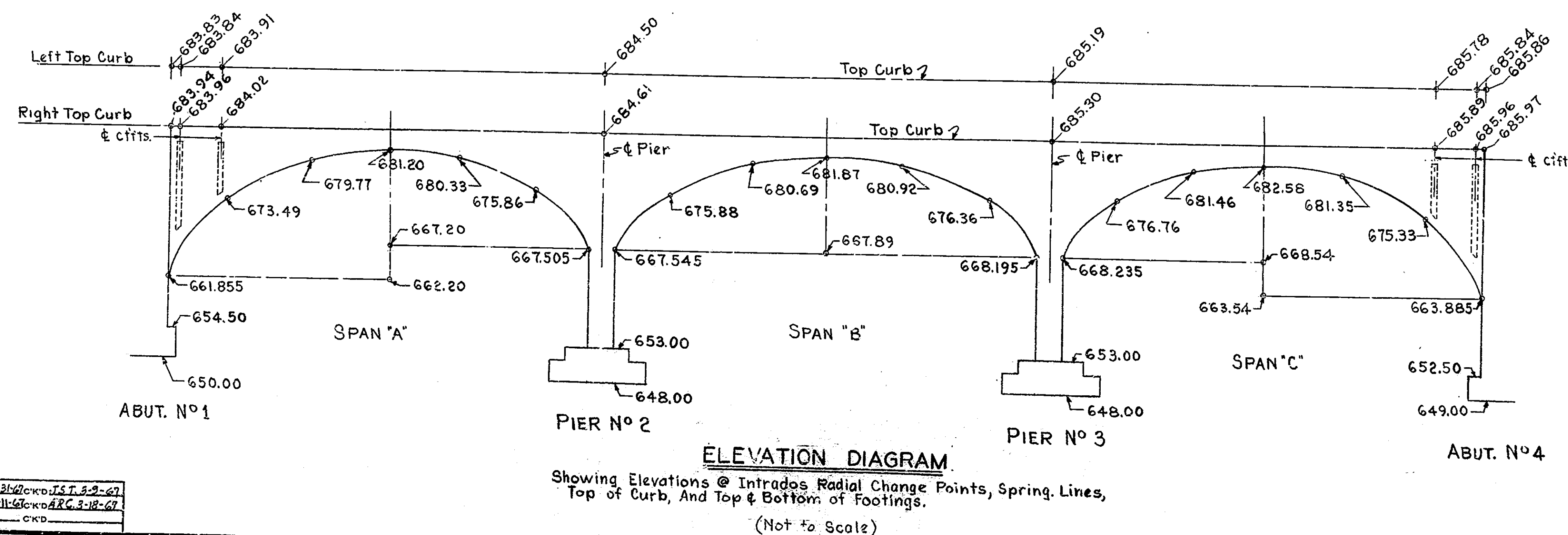
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1967	14	34	



NOTE: Counterfort Sections are taken at $\frac{1}{4}$ Counterforts.



GENERAL NOTES
See Br. Std. C₁ & Drwg. C₂ for Reinf. Bar Notes.
See Drwgs. C₃ & C₄ for Location of Counterforts.



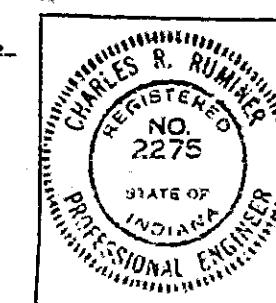
DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/8" = 1'-0" UNLESS NOTED
JUNE 30, 1967

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

DRAWING: C₁₃ OF 16
PROJECT:

CONTRACT NO. M-8151
BRIDGE FILE: 43-67-1077A



Revised: 8-1-69 Str. No.

BILL of MATERIALS

BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	1967	16	34

ABUT. NO 4 (LEFT EXTN.)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#10	5	15'-0"	
#10	4	11'-6"	
#10	28	8'-6"	
#11	2	33'-3"	
#11	2	31'-6"	
#11	2	30'-0"	
#11	1	28'-6"	
#11	1	27'-0"	
#11	1	25'-6"	
#11	1	24'-6"	
#11	1	23'-0"	
#11	1	21'-6"	
#11	1	20'-0"	
#11	1	18'-6"	
#11	4	18'-0"	
#11	6	14'-0"	
#11	12	12'-0"	
TOTAL #11			5000*
#10	9	15'-6"	
#10	11	12'-0"	
#10	9	11'-0"	
#10	8	10'-0"	
#10	6	9'-0"	
TOTAL #10			2171*
#7	9	7'-0"	
#7	9	6'-6"	
#7	9	20'-0"	
#7	9	15'-6"	
#7	3	15'-0"	
#7	14	10'-6"	
TOTAL #7			1294*
#6	4	26'-6"	
#6	7	21'-6"	
#6	21	5'-0"	
#6	10	4'-6"	
#6	4	4'-0"	
#6	5	3'-6"	
TOTAL #6			661*
#5	18	7'-8"	
#5	6	8'-0"	
TOTAL #5			194*
#4	2	33'-3"	
#4	1	32'-6"	
#4	1	31'-6"	
#4	1	30'-6"	
#4	1	29'-6"	
#4	1	28'-6"	
#4	1	27'-6"	
#4	1	26'-0"	
#4	1	25'-0"	
#4	17	24'-0"	
#4	1	23'-0"	
#4	11	22'-0"	
#4	1	21'-6"	
#4	4	20'-6"	
#4	3	19'-6"	
#4	1	18'-6"	
#4	2	17'-6"	
#4	6	15'-6"	
#4	2	13'-6"	
#4	2	11'-6"	
#4	14	10'-0"	
#4	2	9'-6"	
#4	18	8'-0"	
#4	2	7'-6"	
#4	4	7'-0"	
#4	2	6'-6"	
#4	2	5'-6"	
#4	2	3'-6"	
TOTAL #4			1140*
TOTAL STEEL			10460*
CONCRETE			
Class "E" Above Footing			
Below Horiz. Constr. It. = 49.8 cys			
Above Horiz. Constr. It. = 11.2 cys			
TOTAL			61.0 cys
Class "E" Footing			56.7 cys
MISCELLANEOUS			
4" Drains (Steel Boiler)			
Tubing @ 6.286 cys/ft.			
(6" x 1/2" x 1/8" (10' x 24" (10' x 9") = 121.0*			
12 oz. Soft Copper			
Flashing (1'-0" wide) = 22.0 Lft.			
12 oz. Soft Copper			
Flashing (9" wide) = 9.0 Lft.			

ABUT. NO 4 (RIGHT EXTN.)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#10	6	15'-0"	
#10	7	12'-0"	
#10	33	8'-6"	
#11	1	33'-3"	
#11	2	31'-6"	
#11	2	30'-0"	
#11	1	28'-6"	
#11	1	27'-0"	
#11	1	25'-6"	
#11	1	24'-6"	
#11	1	23'-0"	
#11	1	21'-6"	
#11	1	20'-0"	
#11	1	18'-6"	
#11	4	18'-0"	
#11	6	14'-0"	
#11	12	12'-0"	
TOTAL #11			6111*
#10	8	15'-6"	
#10	10	12'-0"	
#10	9	11'-0"	
#10	10	10'-0"	
#10	7	9'-0"	
#10	4	8'-6"	
TOTAL #10			2339*
#7	9	7'-0"	
#7	9	6'-6"	
#7	9	20'-0"	
#7	9	15'-6"	
#7	3	15'-0"	
#7	14	10'-6"	
TOTAL #7			1294*
#6	4	26'-6"	
#6	7	21'-6"	
#6	25	5'-0"	
#6	12	4'-6"	
#6	9	3'-6"	
TOTAL #6			765*
#5	18	7'-8"	
#5	6	8'-0"	
TOTAL #5			194*
#4	3	32'-6"	
#4	2	31'-0"	
#4	2	29'-6"	
#4	16	28'-6"	
#4	15	28'-0"	
#4	2	25'-6"	
#4	2	25'-0"	
#4	2	24'-0"	
#4	2	23'-6"	
#4	2	22'-0"	
#4	2	21'-0"	
#4	2	20'-6"	
#4	2	18'-0"	
#4	6	15'-6"	
#4	2	12'-6"	
#4	14	10'-6"	
#4	2	9'-6"	
#4	16	8'-0"	
#4	4	7'-0"	
#4	4	6'-6"	
#4	2	4'-6"	
TOTAL #4			1334*
TOTAL STEEL			12037*
CONCRETE			
Class "E" Above Footing			
Below Horiz. Constr. It. = 58.9 cys			
Above Horiz. Constr. It. = 12.1 cys			
TOTAL			71.0 cys
Class "E" Footing			60.6 cys
MISCELLANEOUS			
4" Drains (Steel Boiler)			
Tubing @ 6.286 cys/ft.			
(6" x 1/2" x 1/8" (10' x 24" (10' x 9") = 121.0*			
12 oz. Soft Copper			
Flashing (1'-0" wide) = 22.0 Lft.			
12 oz. Soft Copper			
Flashing (9" wide) = 9.0 Lft.			

SPAN "A" (LEFT EXTN.)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#10	3	27'-9"	
#10	3	21'-6"	
#10	3	15'-4"	
#10	3	11'-1"	
#10	9	44'-6"	
#10	18	37'-0"	
#10	9	33'-0"	
#10	2	3'-6"	
TOTAL #10			3625*
#7	78	9'-2"	
#7	3	7'-1"	
#7	3	9'-7"	
#7	10	3'-10"	
TOTAL #7			838*
#4	2	3'-1"	
#4	2	2'-10"	
#4	6	2'-10"	
#4	6	2'-8"	
#4	6	2'-6"	
#4	6	2'-6"	
#4	6	2'-5"	
#4	6	2'-4"	
#4	6	2'-3"	
#4	6	2'-2"	
#4	6	2'-2"	
#4	6	2'-1"	
#4	12	2'-0"	
#4	5	1'-11"	
#4	12	1'-11"	
#4	12	1'-10"	
#4	12	1'-10"	
#4	6	1'-9"	
#4	24	1'-6"	
#4	64	1'-8"	
#4	1	21'-0"	
#4	1	17'-9"	
#4	1	15'-9"	
#4	1	14'-3"	
#4	1	12'-9"	
#4	1	16'-9"	
#4	1	15'-6"	
#4	2	15'-0"	
#4	2	13'-3"	
#4	2	10'-9"	
#4	2	9'-6"	
#4	2	8'-6"	
#4	2	7'-9"	
#4	4	6'-6"	
#4	4	5'-6"	
#4	6	4'-6"	
#4	12	3'-6"	
#4	1	20'-6"	
#4	1	17'-3"	
#4	1	16'-3"	
#4	1	15'-3"	
#4	1	15'-3"	
#4	1	14'-6"	
#4	1	13'-2"	
#4	1	12'-9"	
#4	1	12'-3"	
#4	1	11'-6"	
#4	2	10'-3"	
#4	2	9'-0"	
#4	2	8'-0"	
#4	2	7'-3"	
#4	4	6'-0"	
#4	4	5'-0"	
#4	6	4'-0"	
#4	12	3'-0"	
#4	1	13'-4"	
#4	1	12'-3"	
#4	1	11'-9"	
#4	1	11'-1"	
#4	1	10'-1"	
#4	1	10'-0"	
#4	1	8'-11"	
#4	1	8'-4"	
#4	1	7'-10"	
#4	1	6'-9"	
#4	1	6'-7"	
#4	1	5'-8"	
#4	4	29'-0"	
#4	2	23'-6"	
#4	2	17'-0"	
#4	2	15'-0"	
#4	2	13'-9"	
#4	8	13'-0"	
#4	12	12'-6"	
#4	2	12'-0"	
#4	4	11'-0"	
#4	4	10'-6"	
#4	2	10'-0"	
#4	2	9'-0"	
#4	2	8'-0"	
#4	4	6'-0"	
#4	2	5'-0"	
#4	2	4'-0"	
#4	2	3'-6"	

CONTINUED SPAN "A" (LEFT EXTN.)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#4	6	7'-6"	
#4	6	5'-6"	
#4	6	4'-6"	
#4	2	3'-6"	
TOTAL #4			1485*
TOTAL STEEL			5948*
CONCRETE			
Class "D" Arch Ring			
Spand. Wall (incl. chffs) = 34.3 cys			
TOTAL			62.6 cys
Class "F" Railing			3.0 cys

SPAN "A" (RIGHT EXTN.)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#1011	3	27'-9"	
#1012	3	21'-6"	
#1002	3	11'-1"	
#1403	3	10'-9"	
#1	9	44'-6"	
#7	18	37'-0"	
#7	9	33'-0"	
#7	6	30'-6"	
TOTAL		#7 =	3597*
#011	78	9'-2"	
#401	3	7'-1"	
#403	3	7'-1"	
#411	10	3'-10"	
TOTAL		# =	830*
#4011	9	3'-1"	
#4012	9	2'-10"	
#4013	6	2'-9"	
#4014	6	2'-8"	
#4015	6	2'-8"	
#4016	6	2'-6"	
#4017	6	2'-5"	
#4018	6	2'-4"	
#4019	6	2'-3"	
#4020	6	2'-2"	
#4021	6	2'-2"	
#4022	6	2'-1"	
#4023	12	2'-0"	
#4024	5	1'-11"	
#4025	6	1'-11"	
#4026	12	1'-10"	
#4027	12	1'-10"	
#4028	6	1'-9"	
#4029	24	1'-9"	
#4030	84	1'-8"	
#4031	1	21'-0"	
#4032	1	17'-9"	
#4034	1	15'-9"	
#4037	1	14'-3"	
#4039	1	12'-9"	
#4043	1	16'-9"	
#4045	1	15'-6"	
#4046	1	15'-0"	
#4048	2	13'-3"	
#4050	2	12'-0"	
#4051	2	10'-9"	
#4052	2	9'-6"	
#4053	2	8'-6"	
#4054	2	7'-9"	
#4055	4	6'-6"	
#4056	4	5'-6"	
#4057	6	4'-6"	
#4058	12	3'-6"	
#4061	1	20'-6"	
#4062	1	17'-3"	
#4063	1	16'-3"	
#4064	1	15'-3"	
#4065	1	15'-0"	
#4066	1	14'-6"	
#4067	1	13'-9"	
#4068	1	12'-9"	
#4069	1	12'-3"	
#4070	1	11'-6"	
#4071	2	10'-3"	
#4072	2	9'-0"	
#4073	2	8'-0"	
#4074	2	7'-3"	
#4075	4	6'-0"	
#4076	4	5'-0"	
#4077	6	4'-0"	
#4078	12	3'-0"	

BILL of MATERIALS

BRIDGES OVER 20' SPAN				
PUR. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
4	IND.		1967	17
				TOTAL SHEETS
				24

SPAN "B" (LEFT EXTN.)
(RIGHT EXTN. SAME EXCEPT AS SHOWN)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#7	3	21'-5"	
#7	3	21'-3"	
#7	18	46'-0"	
#7	6	37'-0"	
#7	9	30'-9"	
#7	9	28'-6"	
TOTAL #7 = 337*			
#5	74	9'-2"	
TOTAL #5 = 707*			
4111	18	3'-1"	
4112	12	2'-8"	
4113	12	2'-5"	
4114	12	2'-3"	
4115	12	2'-2"	
4116	12	2'-1"	
4117	12	2'-0"	
4118	12	1'-10"	
4119	12	1'-9"	
4120	12	1'-8"	
4121	102	1'-8"	
4131	2	16'-9"	
4132	2	16'-0"	
4133	2	15'-3"	
4134	2	14'-9"	
4135	1	13'-6"	
4136	3	13'-3"	
4137	1	12'-0"	
4138	2	11'-9"	
4139	1	10'-0"	
4140	1	10'-0"	
4141	1	10'-0"	
4142	1	9'-0"	
4143	2	8'-0"	
4144	1	8'-0"	
4145	1	8'-0"	
4146	1	7'-3"	
4147	2	6'-9"	
4148	2	6'-3"	
4149	3	5'-6"	
4150	2	5'-3"	
4151	6	4'-6"	
4152	12	3'-9"	
4161	1	12'-3"	
4162	1	15'-6"	
4163	1	14'-0"	
4164	1	14'-3"	
4165	1	13'-0"	
4166	1	12'-9"	
4167	1	11'-6"	
4168	1	11'-3"	
4169	1	10'-6"	
4170	1	10'-3"	
4171	1	9'-6"	
4172	1	9'-3"	
4173	2	8'-3"	
4174	1	7'-9"	
4175	1	7'-6"	
4176	1	6'-9"	
4177	2	6'-3"	
4178	2	5'-9"	
4179	3	5'-0"	
4180	2	4'-9"	
4181	6	4'-0"	
4182	12	3'-3"	
#4	4	35'-0"	
#4	4	26'-0"	
#4	8	18'-6"	
#4	12	13'-6"	
#4	8	9'-0"	
#4	4	5'-6"	
TOTAL #4 = 1242*			
TOTAL STEEL = 5320*			
CONCRETE			
Class "D" ARCH RING			
Arch Ring Lt. Extn. (8'-6" wide) = 33.6 cys			
Spand. Wall = 24.1 cys			
Total Class "D" Lt. Extn. = 57.7 cys			
Class "D" ARCH RING			
Arch Ring Rt. Extn. (8'-6" wide) = 33.6 cys			
Spand. Wall = 24.1 cys			
Total Class "D" Rt. Extn. = 57.7 cys			

SPAN "C" (LEFT EXTN.)

REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#7	3	28'-0"	
#7	3	21'-5"	
#7	3	21'-1"	
#7	3	10'-9"	
#7	9	44'-6"	
#7	18	37'-0"	
#7	9	33'-0"	
#7	6	30'-6"	
TOTAL #7 = 3598*			
#5	78	9'-2"	
#5	3	7'-1"	
#5	3	7'-1"	
#5	10	3'-10"	
TOTAL #5 = 830*			
4211	9	3'-1"	
4212	9	2'-10"	
4213	6	2'-9"	
4214	6	2'-8"	
4215	6	2'-6"	
4216	6	2'-6"	
4217	6	2'-5"	
4218	6	2'-4"	
4219	6	2'-3"	
4220	6	2'-2"	
4221	6	2'-1"	
4222	6	2'-1"	
4223	12	2'-0"	
4224	6	1'-11"	
4225	6	1'-11"	
4226	12	1'-10"	
4227	12	1'-10"	
4228	6	1'-9"	
4229	24	1'-9"	
4230	84	1'-8"	
4231	1	21'-0"	
4232	1	17'-9"	
4233	1	15'-9"	
4234	1	14'-3"	
4235	1	12'-9"	
4236	1	12'-9"	
4237	1	12'-9"	
4238	1	12'-9"	
4239	1	12'-9"	
4240	1	12'-9"	
4241	1	12'-9"	
4242	1	12'-9"	
4243	1	12'-9"	
4244	1	12'-9"	
4245	1	12'-9"	
4246	1	12'-9"	
4247	1	12'-9"	
4248	1	12'-9"	
4249	1	12'-9"	
4250	1	12'-9"	
4251	1	12'-9"	
4252	1	12'-9"	
4253	1	12'-9"	
4254	1	12'-9"	
4255	1	12'-9"	
4256	1	12'-9"	
4257	1	12'-9"	
4258	1	12'-9"	
4259	1	12'-9"	
4260	1	12'-9"	
4261	1	12'-9"	
4262	1	12'-9"	
4263	1	12'-9"	
4264	1	12'-9"	
4265	1	12'-9"	
4266	1	12'-9"	
4267	1	12'-9"	
4268	1	12'-9"	
4269	1	12'-9"	
4270	1	12'-9"	
4271	1	12'-9"	
4272	1	12'-9"	
4273	1	12'-9"	
4274	1	12'-9"	
4275	1	12'-9"	
4276	1	12'-9"	
4277	1	12'-9"	
4278	1	12'-9"	
4279	1	12'-9"	
4280	1	12'-9"	
4281	1	12'-9"	
4282	1	12'-9"	
4283	1	12'-9"	
4284	1	12'-9"	
4285	1	12'-9"	
4286	1	12'-9"	
4287	1	12'-9"	
4288	1	12'-9"	
4289	1	12'-9"	
4290	1	12'-9"	
4291	1	12'-9"	
4292	1	12'-9"	
4293	1	12'-9"	
4294	1	12'-9"	
4295	1	12'-9"	
4296	1	12'-9"	
4297	1	12'-9"	
4298	1	12'-9"	
4299	1	12'-9"	
4300	1	12'-9"	
4301	1	12'-9"	
4302	1	12'-9"	
4303	1	12'-9"	
4304	1	12'-9"	
4305	1	12'-9"	
4306	1	12'-9"	
4307	1	12'-9"	
4308	1	12'-9"	
4309	1	12'-9"	
4310	1	12'-9"	
4311	1	12'-9"	
4312	1	12'-9"	
4313	1	12'-9"	
4314	1	12'-9"	
4315	1	12'-9"	
4316	1	12'-9"	
4317	1	12'-9"	
4318	1	12'-9"	
4319	1	12'-9"	
4320	1	12'-9"	
4321	1	12'-9"	
4322	1	12'-9"	
4323	1	12'-9"	
4324	1	12'-9"	
4325	1	12'-9"	
4326	1	12'-9"	
4327	1	12'-9"	
4328	1	12'-9"	
4329	1	12'-9"	
4330	1	12'-9"	
4331	1	12'-9"	
4332	1	12'-9"	
4333	1	12'-9"	
4334	1	12'-9"	
4335	1	12'-9"	
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4337	1	12'-9"	
4338	1	12'-9"	
4339	1	12'-9"	
4340	1	12'-9"	
4341	1	12'-9"	
4342	1	12'-9"	
4343	1	12'-9"	
4344	1	12'-9"	
4345	1	12'-9"	
4346	1	12'-9"	
4347	1	12'-9"	
4348	1	12'-9"	
4349	1	12'-9"	
4350	1	12'-9"	
4351	1	12'-9"	
4352	1	12'-9"	
4353	1	12'-9"	
4354	1	12'-9"	
4355	1	12'-9"	
4356	1	12'-9"	
4357	1	12'-9"	
4358	1	12'-9"	
4359	1	12'-9"	
4360	1	12'-9"	
4361	1	12'-9"	
4362	1	12'-9"	
4363	1	12'-9"	
4364	1	12'-9"	
4365	1	12'-9"	
4366	1	12'-9"	
4367	1	12'-9"	
4368	1	12'-9"	
4369	1	12'-9"	
4370	1	12'-9"	
4371	1	12'-9"	
4372	1	12'-9"	
4373	1	12'-9"	
4374	1	12'-9"	
4375	1	12'-9"	
4376	1	12'-9"	
4377	1	12'-9"	
4378	1	12'-9"	
4379	1	12'-9"	
4380	1	12'-9"	
4381	1	12'-9"	
4382	1	12'-9"	
4383	1	12'-9"	
4384	1	12'-9"	
4385	1	12'-9"	
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4387	1	12'-9"	
4388	1	12'-9"	
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4397	1	12'-9"	
4398	1	12'-9"	
4399	1	12'-9"	
4400	1	12'-9"	
4401	1	12'-9"	
4402	1	12'-9"	
4403	1	12'-9"	
4404	1	12'-9"	
4405	1	12'-9"	
4406	1	12'-9"	
4407	1	12'-9"	
4408	1	12'-9"	
4409	1	12'-9"	
4410	1	12'-9"	
4411	1	12'-9"	
4412	1	12'-9"	
4413	1	12'-9"	
4414	1	12'-9"	
4415	1	12'-9"	
4416	1	12'-9"	
4417	1	12'-9"	
4418	1	12'-9"	
4419	1	12'-9"	
4420	1	12'-9"	
4421	1	12'-9"	
4422	1	12'-9"	
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4425	1	12'-9"	
4426	1	12'-9"	
4427	1	12'-9"	
4428	1	12'-9"	
4429	1	12'-9"	
4430	1	12'-9"	
4431	1	12'-9"	
4432	1	12'-9"	
4433	1	12'-9"	
4434	1	12'-9"	
4435	1	12'-9"	
4436	1	12'-9"	
4437	1	12'-9"	
4438	1	12'-9"	
4439	1	12'-9"	
4440	1	12'-9"	
4441	1	12'-9"	
4442	1	12'-9"	
4443	1	12'-9"	
4444	1	12'-9"	
4445	1	12'-9"	
4446	1	12'-9"	
4447	1	12'-9"	
4448	1	12'-9"	
4449	1	12'-9"	
4450	1	12'-9"	
4451	1	12'-9"	
4452	1	12'-9"	
4453	1	12'-9"	
4454	1	12'-9"	
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4456	1	12'-9"	
4457	1	12'-9"	
4458	1	12'-9"	
4459	1	12'-9"	
4460	1	12'-9"	
4461	1	12'-9"	
4462	1	12'-9"	

