

FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	FED. AID PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S. C.	LEXINGTON RICHLAND	3240.216	U 2570(1) U 2570(3)	U.S. 21	21	21

INDEX OF SHEETS	
SHEET NO. 1: TITLE SHEET	
" " 2: DETAILS OF RIP-RAP ON APRON	
" " 3-5.5A: ROAD PLAN AND PROFILE	
" " 6: GENERAL PLAN AND DETAILS	
" " 7: BRIDGE PLAN AND PROFILE	
" " 8: ANCHOR BOLT LAYOUT AND DETAILS	
" " 9: TOP SECTION-END BENTS 1 & 2	
" " 10: TOP SECTION-END BENTS 1 & 2-REINFORCING STEEL	
" " 11: FOUR SPAN LAYOUT	
" " 12: FIVE SPAN LAYOUT	
" " 13-15: GIRDER DETAILS	
" " 16: EXPANSION JOINT DETAILS	
" " 17-18: DECK DETAILS	
" " 19: HANDRAIL DETAILS	
" " 20: CATWALK AND MANHOLE DETAILS	
" " 21: DRAIN DETAILS	
" " 21A-E: DETAILS OF ROADWAY LIGHTING	

SOUTH CAROLINA
STATE HIGHWAY DEPARTMENT
COLUMBIA

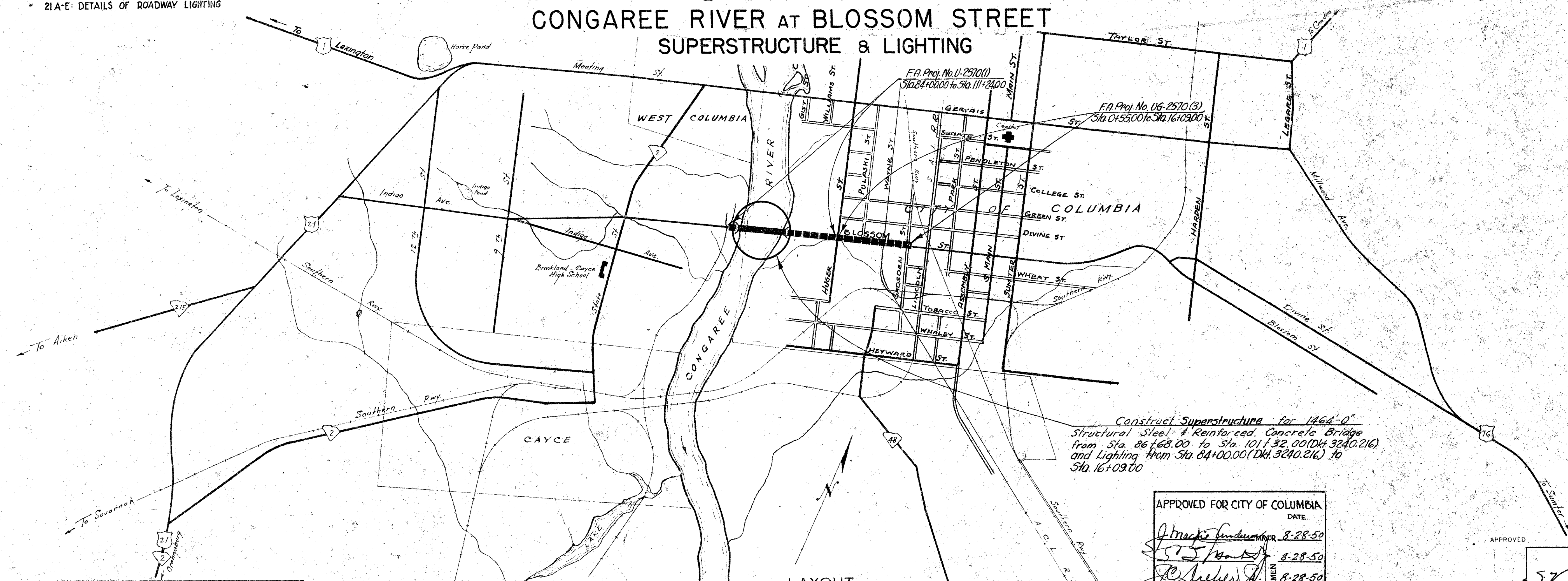
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT NO. U 2570 (1) & U 2570 (3)
S. C. DOCKET NO. 3240.216.3 & 4
U.S. ROUTE NO. 21

LEXINGTON-RICHLAND COUNTIES
BRIDGE OVER
CONGAREE RIVER AT BLOSSOM STREET
SUPERSTRUCTURE & LIGHTING

SUMMARY OF ESTIMATED QUANTITIES				3240.216.4	
DOCKET NO.		3240.216.3	U 2570(1)	U 2570(3)	
CLASS 'A' CONCRETE	C.Y.	—	1934.31	6.16	
REINFORCING STEEL	LBS.	—	406,050	—	
STEEL SUPERSTRUCTURES	L.S.	*NECESSARY	—	—	
BRIDGE HANDRAIL (INCLUDES PAINTING)	L.F.	—	2920.67	—	
MANHOLE CASTINGS	EACH	—	12	—	
ROADWAY LIGHTING	L.S.	—	NECESSARY	NECESSARY	
CONCRETE RIP-RAP	CY.	—	100	—	
FIELD PAINTING STEEL SUPERSTRUCTURES	L.S.	—	NECESSARY	—	

Docket No. 3240.216.3 - Includes Structural Steel Superstructures for all spans.
Docket No. 3240.216.4 - Includes Concrete Deck for all spans.
* Approximately 3,825,000 Lbs.



Construct Superstructure for 1464'-0"
Structural Steel & Reinforced Concrete Bridge
from Sta. 86+68.00 to Sta. 101+32.00 (Dkt. 3240.216)
and Lighting from Sta. 84+00.00 (Dkt. 3240.216) to
Sta. 16+09.00

LAYOUT

Scale: 1 inch = 1200 feet (Approx.)

Net Length of Roadway	0.000	Miles
Net Length of Bridges	0.277	Miles
Net Length of Project	0.277	Miles
Length of Exceptions	0.000	Miles
Gross Length of Project	0.277	Miles

EQUALITIES IN STATIONING
Sta. 111+97.00 (Dkt. 3240.216)
= Sta. 0+00.00 (Dkt. 40.292)

CONVENTIONAL SIGNS	
State Line	Light Standards
County Line	Trolley Poles
City or Town Limits	Power Poles
Property Line	Telephone or Telegraph Poles
Fence	Marsh
Retaining Wall	Trees
Existing Road	Brush
℄ and R.O.W. Lines of	Stumps
Proposed Road	Buildings
Railroad	Bridge
Levee or Embankment	Concrete Box Culvert
Guard Rail	Pipe Culvert
Point of Intersection (P.I.)	Drop Inlet and Culvert
	Hub on Center Line

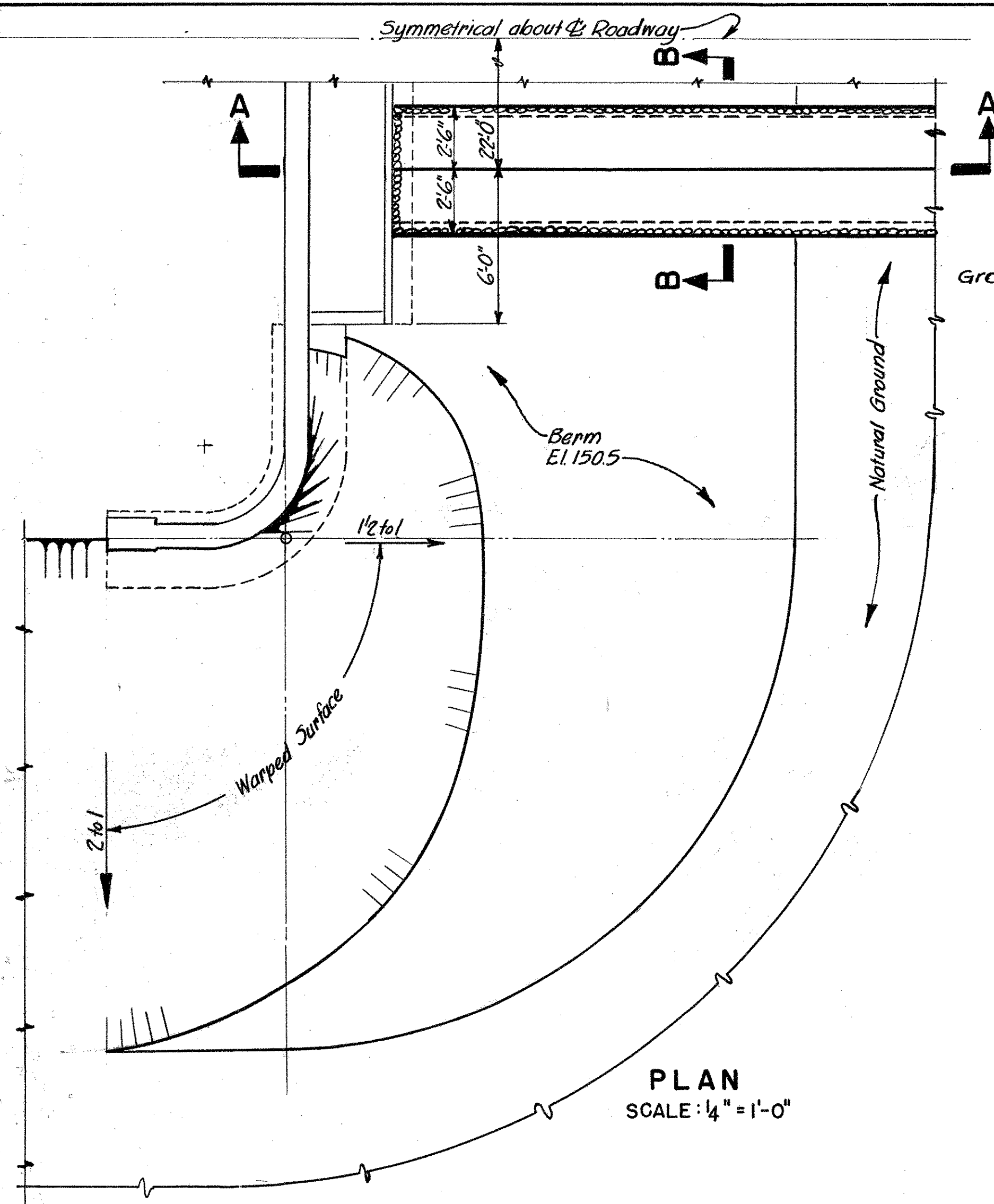
LEGEND	
PROPOSED PROJECT	
OTHER ROADS & STREETS	

APPROVED FOR CITY OF COLUMBIA	
DATE	8-28-50
APPROVED	8-28-50
APPROVED	8-28-50
APPROVED	8-28-50
APPROVED	8-28-50
APPROVED	8-28-50

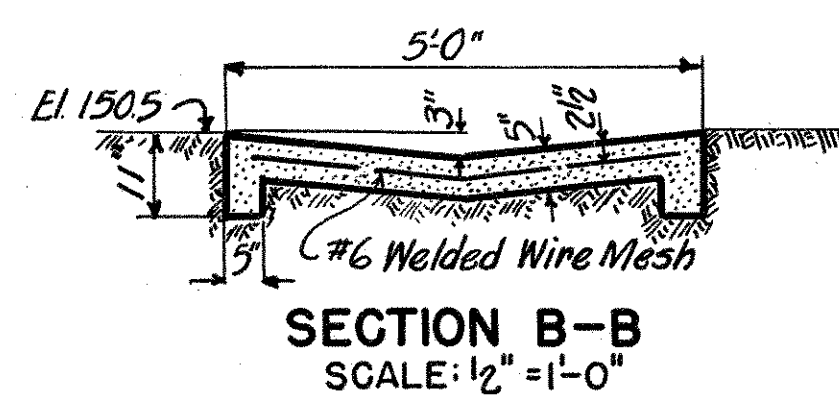
APPROVED	57. P. Raman	DATE 8/28/50
RECOMMENDED FOR APPROVAL		
APPROVED		

Note: All work on this project was done in accordance with the South Carolina State Highway Department Standard Specifications for Highway Construction, dated March 1st, 1949, as approved by the Administrator, Federal Highway Administration.

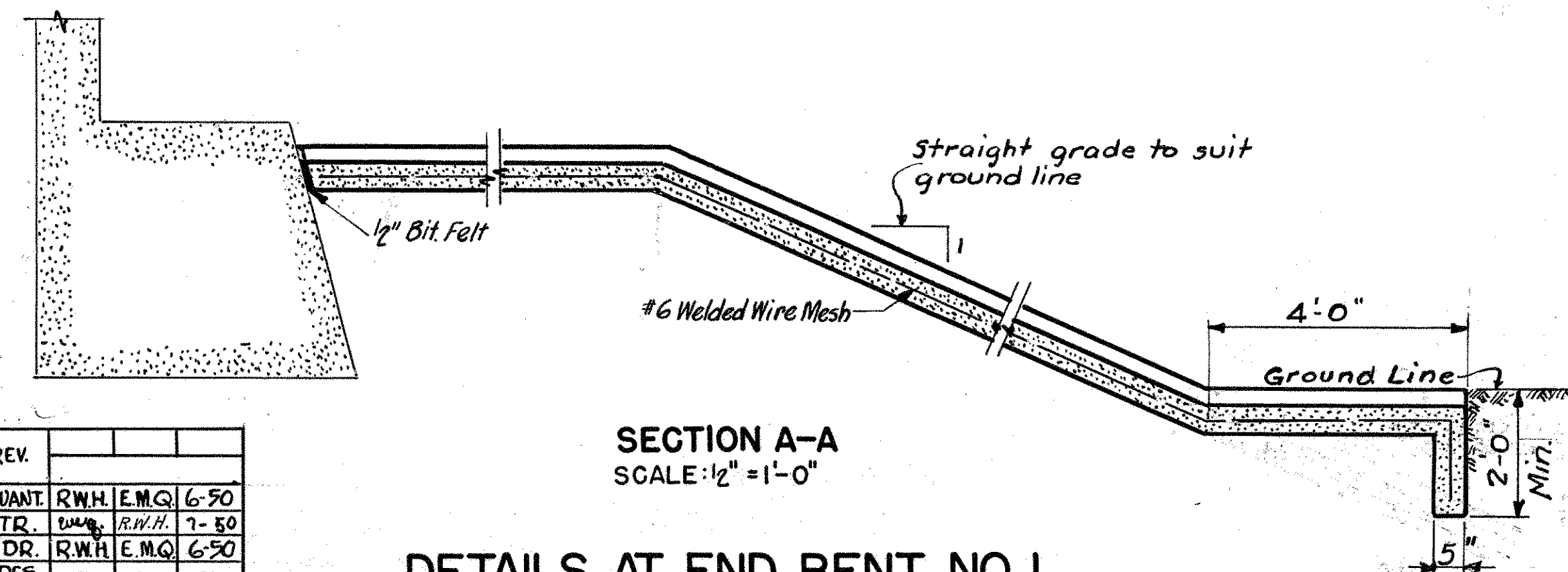
FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	LEXINGTON-RICHLAND	3240.216	21	2	21



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

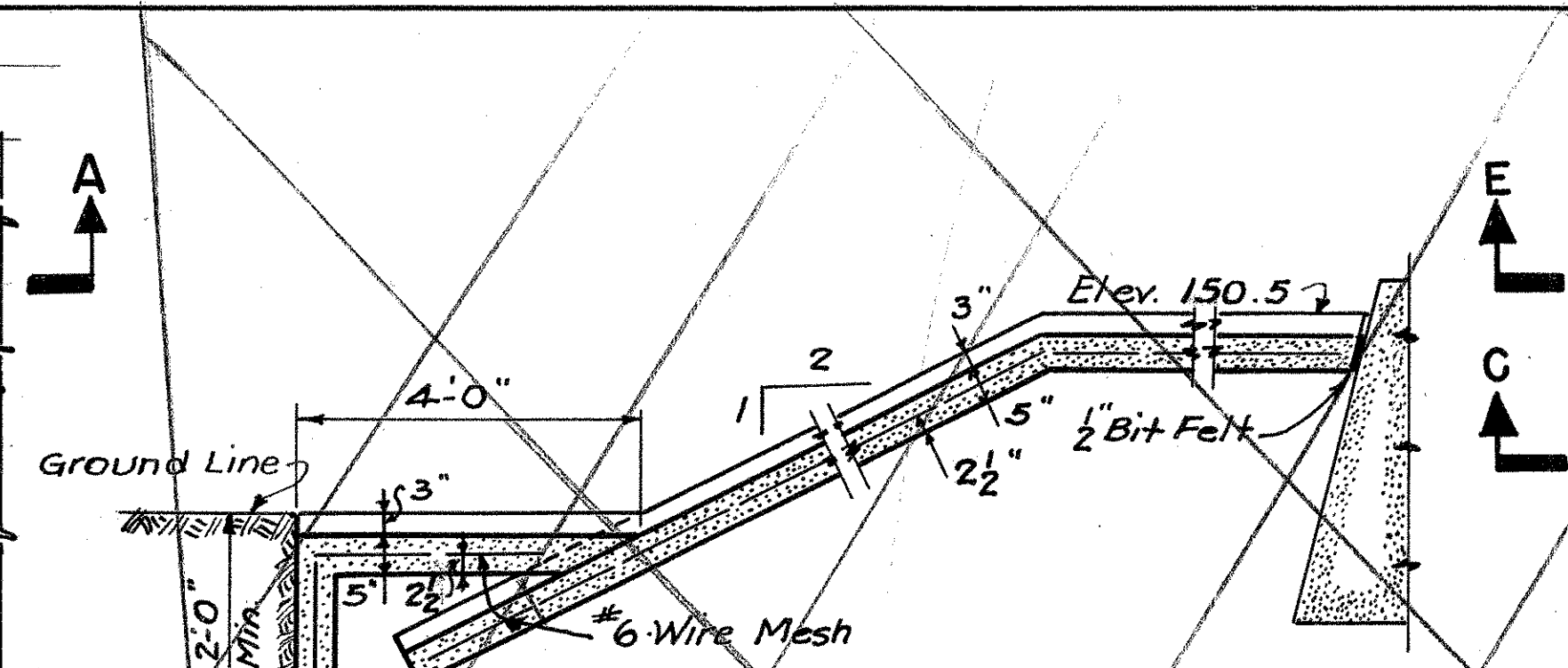


SECTION B-B
SCALE: 1/2" = 1'-0"

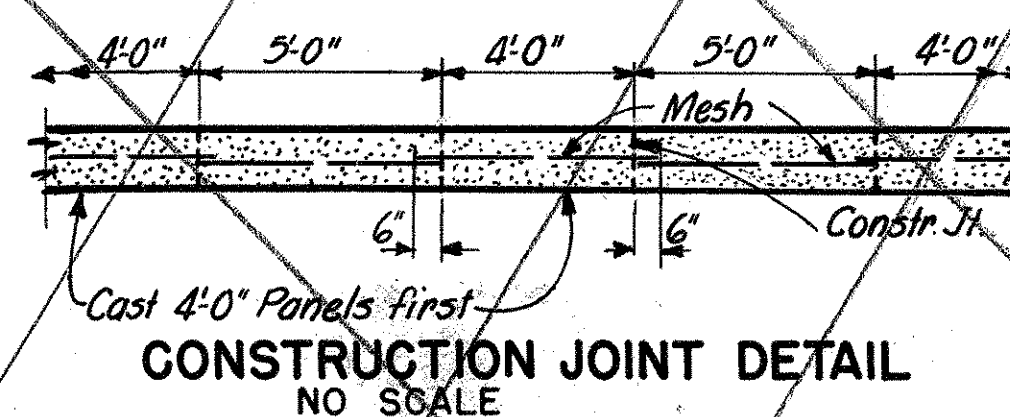


SECTION A-A
SCALE: 1/2" = 1'-0"

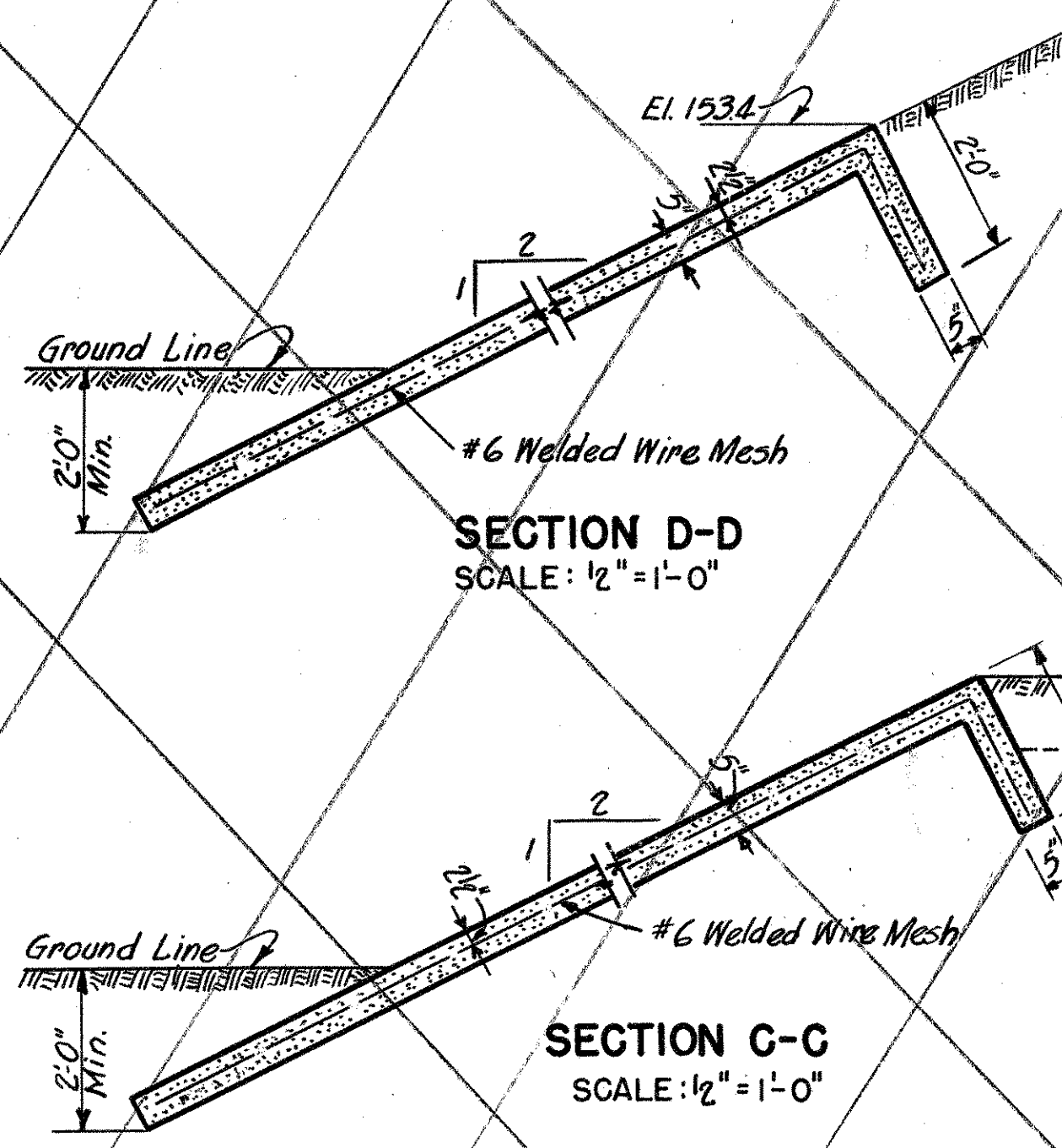
DETAILS AT END BENT NO. 1



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



CONSTRUCTION JOINT DETAIL
NO SCALE

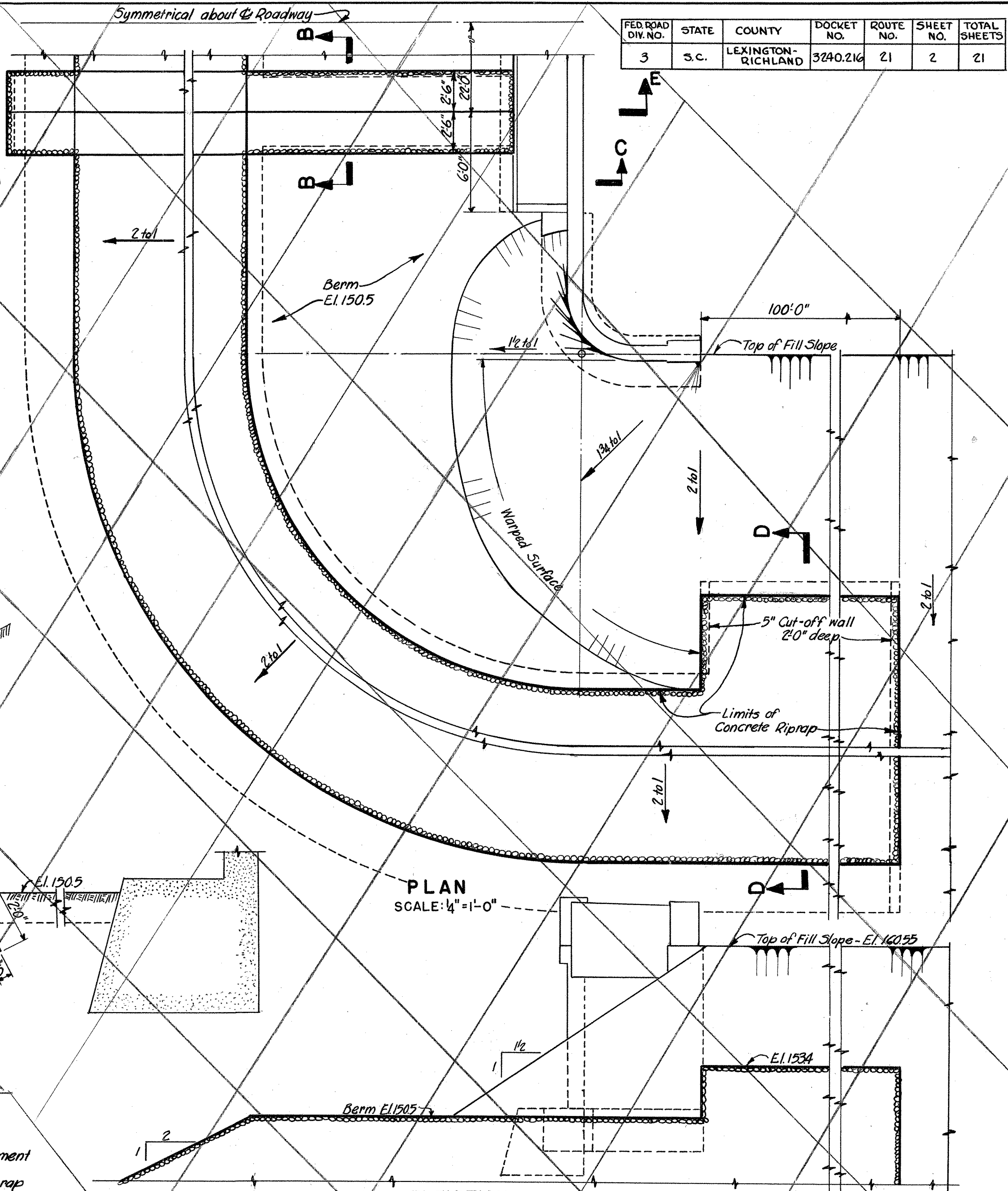


SECTION D-D
SCALE: 1/2" = 1'-0"

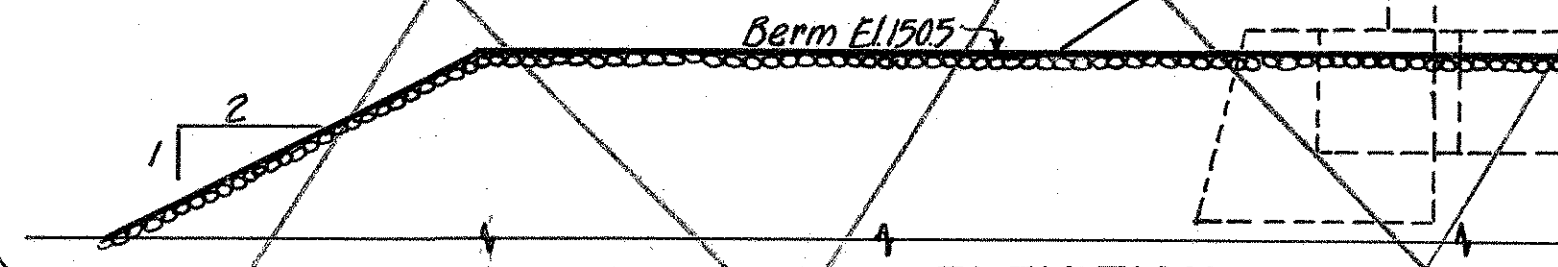


SECTION C-C
SCALE: 1/2" = 1'-0"

NOTES-CONCRETE RIP-RAP:
All concrete shall be Class "B" without adjustment for variable yield, with No. 4 coarse aggregate.
The unit price bid per sq. yd. of Concrete Rip-rap shall include all cost of necessary minor grading and reinforcing steel.
Reinforcing steel shall be 6"x6" Mesh, #6 wire (Wt. = 42 #/100 sq. ft.).
All splices of mesh shall be 6" min. lap.
Construction Joints to be at alternate 4'-0" and 5'-0" centers (see sketch above) except in curved portion where spacing will vary.
Additional concrete in side and end cutoff walls will be paid for on a square yard basis, based on a 5" thickness.



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



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

DETAILS AT END BENT NO. 2

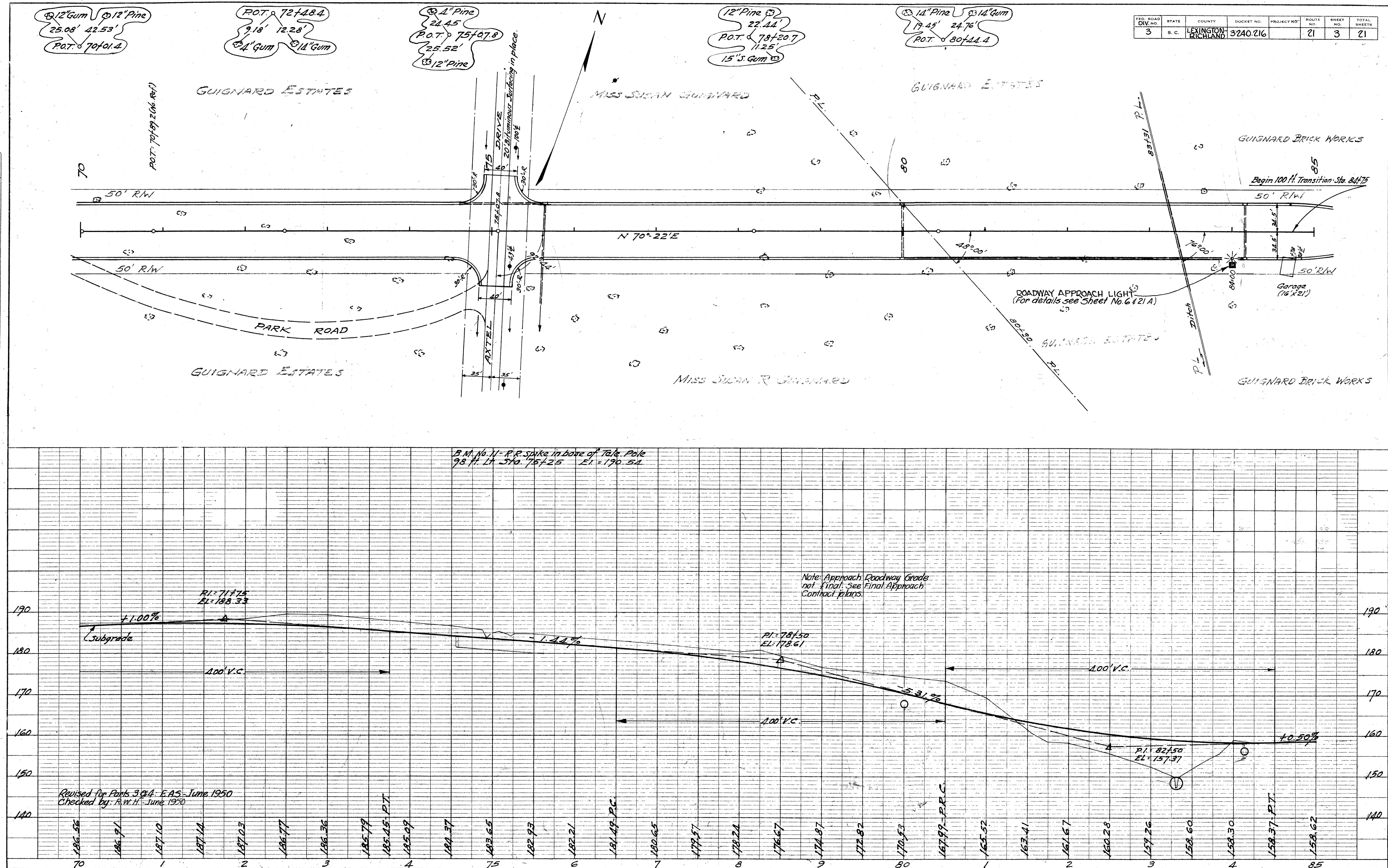
ESTIMATED QUANTITIES		
	AT BENT NO. 1	AT BENT NO. 2
*CONCRETE RIP-RAP	100 sq. yd.	250 sq. yd.

* Includes approx. 300 # Reinf. Mesh for Bent No. 1.
and approx. 600 # Reinf. Mesh for Bent No. 2.

S.C. STATE HIGHWAY DEPARTMENT
COLUMBIA
RIPRAP DETAILS
FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET
DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES JUNE 1950
SCALE AS NOTED

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED		
NO.	RT. OF WAY CHECKED		

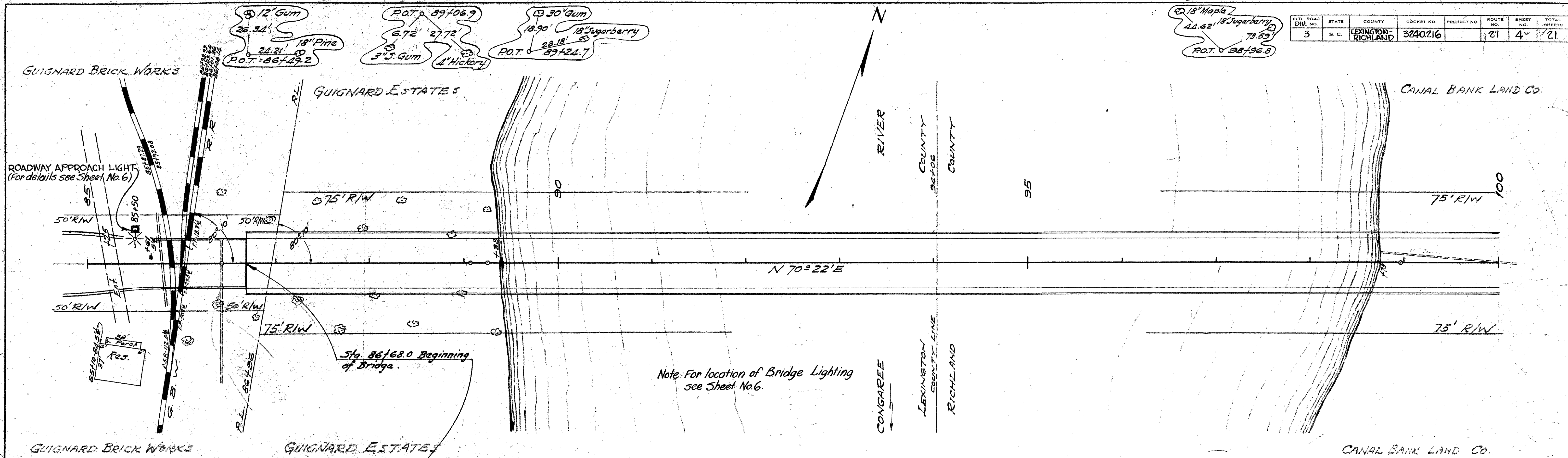
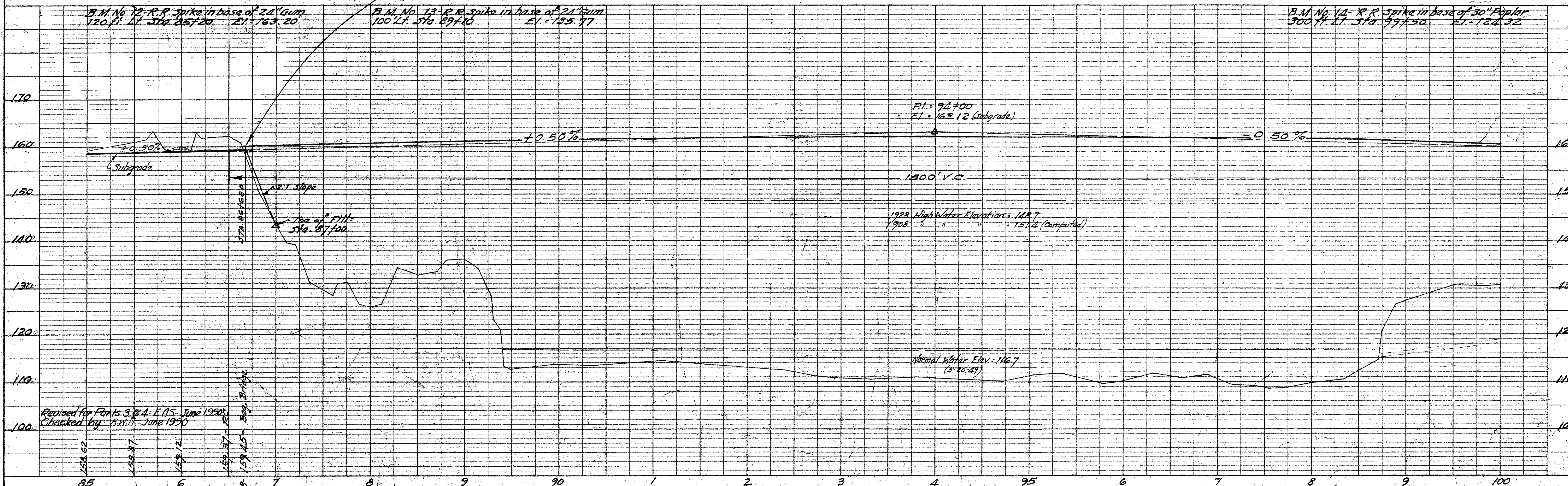
PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
B.M. & NOTED			
STRUCTURE NOTED			
NO.			



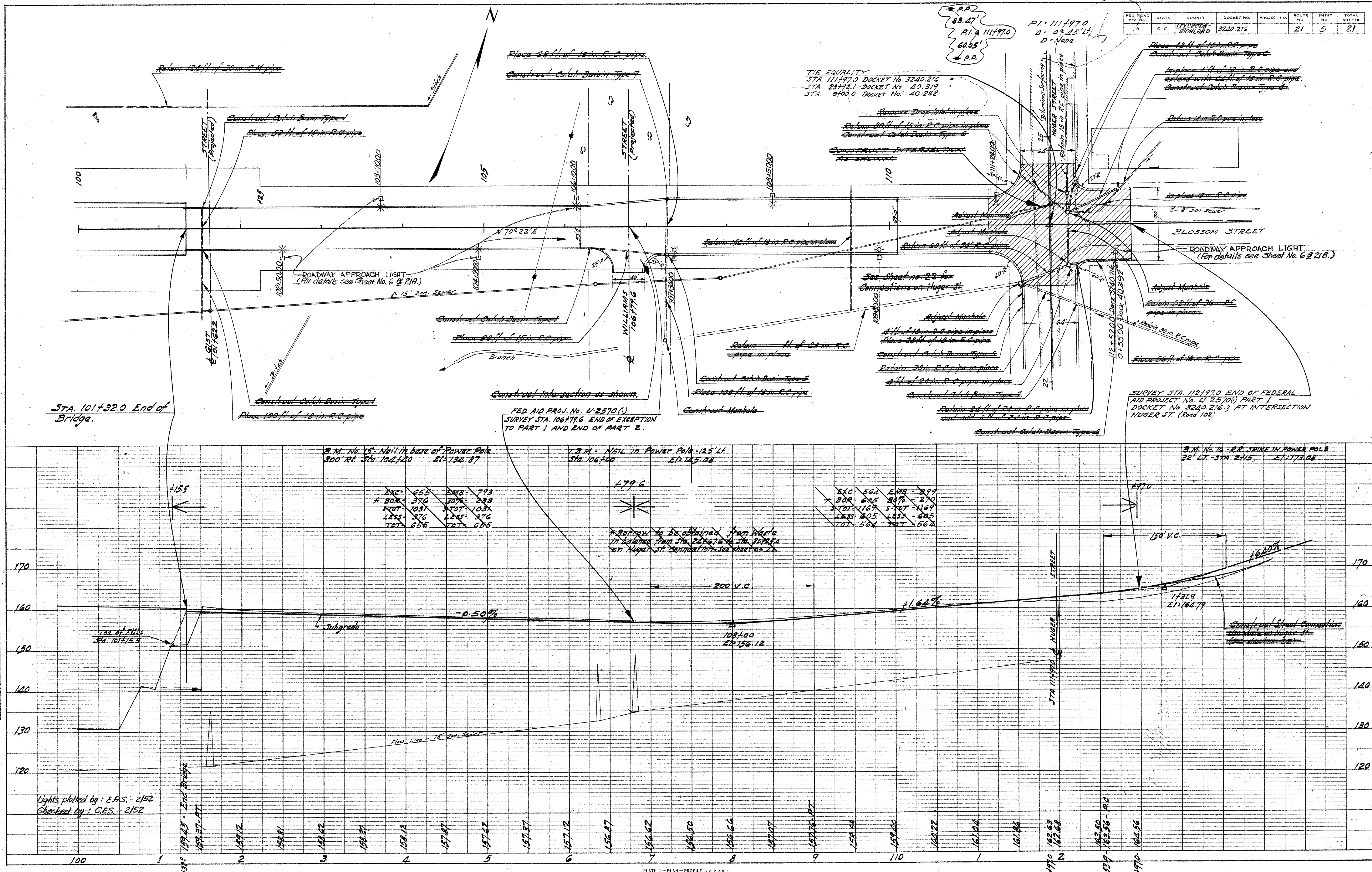
PLAN	NO.	SHEET	BY	DATE
SURVEYED NOTE BOOK ALIGNMENT CHECKED RT. OF WAY CHECKED				

PROFILE	NO.	SHEET	BY	DATE
SURVEYED NOTE BOOK GRADES CHECKED B.M. & NOTED STRUCTURE NOTING CHECK				

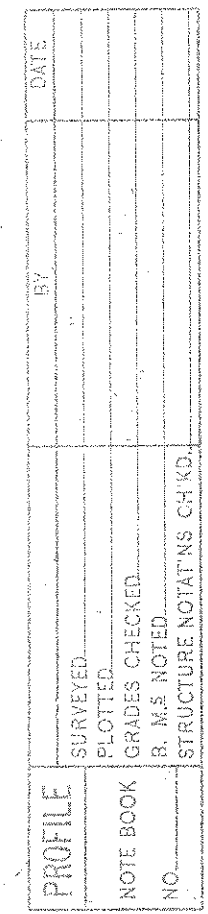
FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S. C.	LEXINGTON-RICHLAND	3240.216		21	4	21



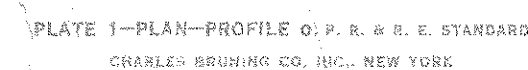
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3	S. C.	LEXINGTON- RICHLAND	3240-216		21	5	21

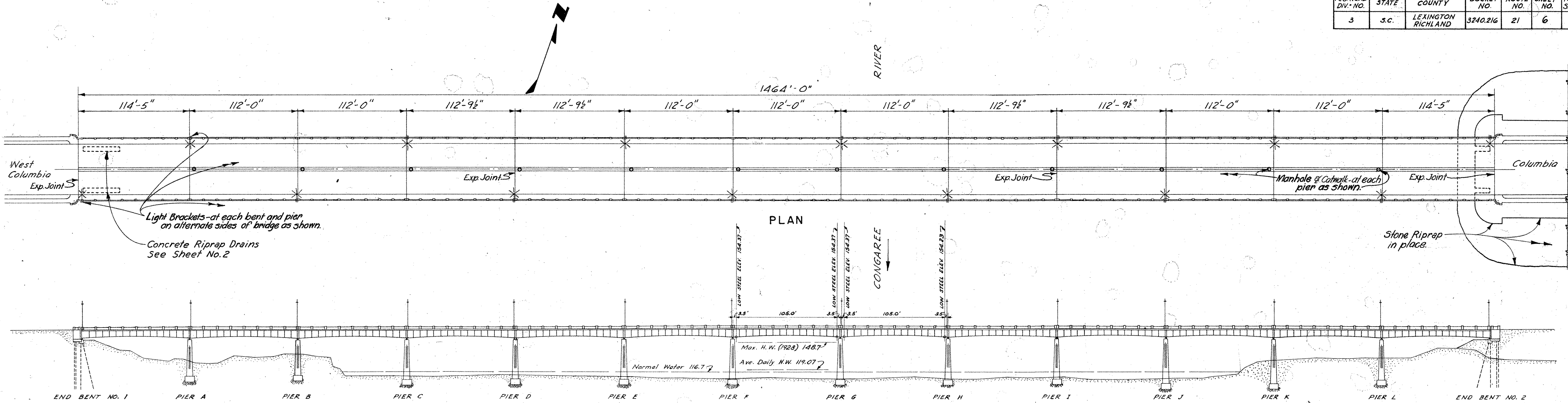


DATE	50' R/W
BY	4.5' Conc. Fwy
	69'
	4.5' Conc. Fwy
	50' R/W
PLANNED	
SURVEYED	ALIGNED CHECK
PLOTTED	RT. OF WAY CHECK
NOTE BOOK	
NO.	



Profile not checked - E.O.S. - 2/26/52

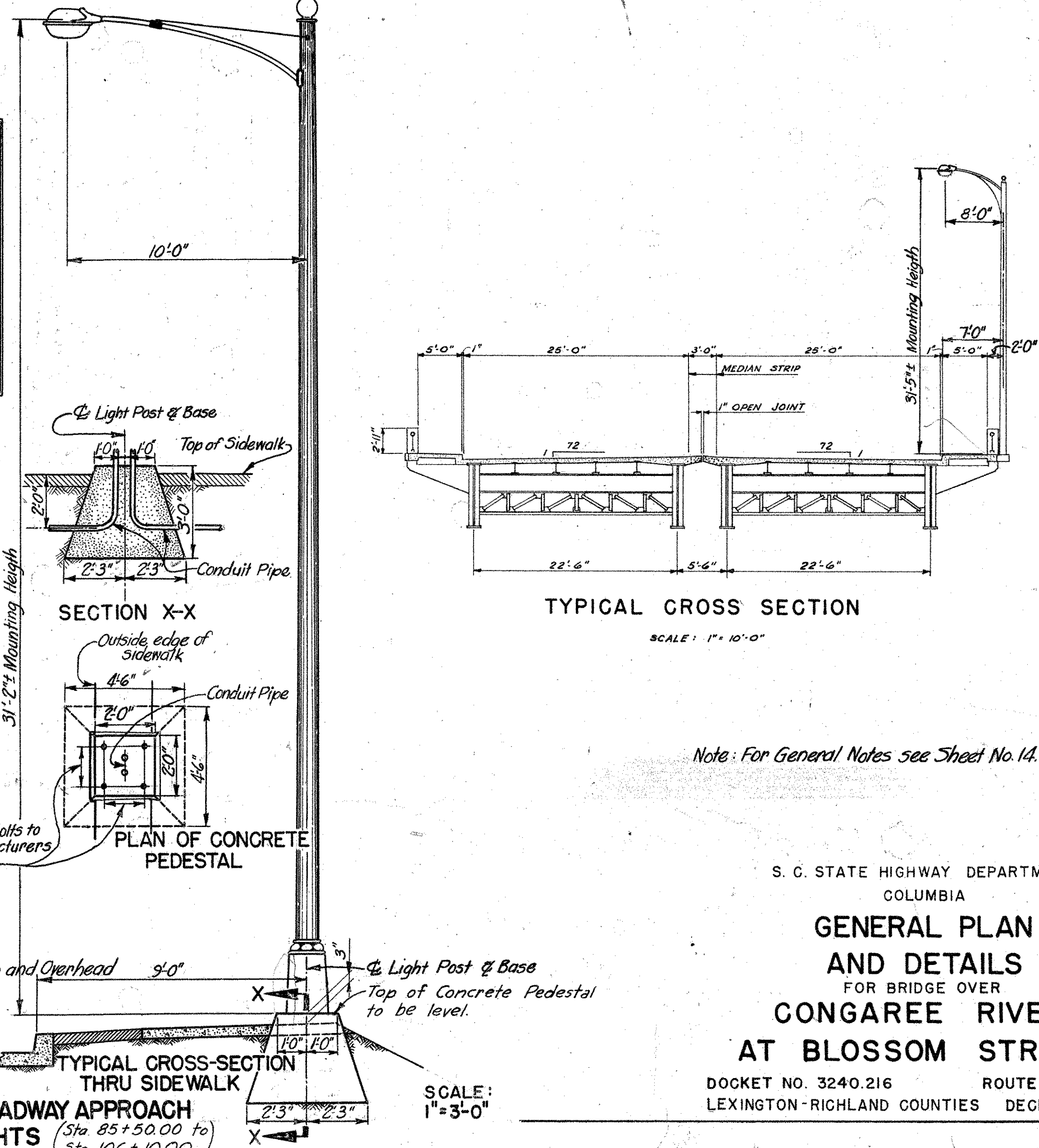




SUMMARY OF QUANTITIES							
DOCKET NO.		3240.216.3	3240.216.4				
ITEM	NO.	STEEL SUPERSTRUCTURE (APPROX.) LBS.	CLASS "A" CONCRETE CY.	REINFORCING STEEL LBS.	*BRIDGE HANDRAIL L.F.	MANHOLE CASTINGS EACH	ROADWAY LIGHTING LUMP SUM
END BENTS-TOP PORTION	2	---	16.08	1526	---	---	---
4 SPAN CONT. UNIT	2	2,366,000	117344	248,944	1797.50	6	NECESSARY
5 SPAN CONT. UNIT	1	1,459,000	73248	155,580	1123.17	6	NECESSARY
ROADWAY APPROACH LIGHTS	15	---	1847	---	---	---	NECESSARY
OVERHEAD BRIDGE LIGHTS	12	---	---	---	---	---	NECESSARY
TOTALS		3,825,000	1940.47	406,050	2920.67	12	NECESSARY

- ① Includes 260 cy. for light brackets; 0.60 cy. deducted for manholes.
- ② Includes 104 cy. for light brackets; 0.60 cy. deducted for manholes.
- ③ Includes 880 lbs. for light brackets.
- ④ Includes 352 lbs. for light brackets.
- ⑤ Includes 15 lights on approach roadway, 14 lights on Congaree River bridge and 12 lights on overhead bridge and retaining walls.

*All costs of concrete for handrail posts to be included in the unit price bid for Steel Handrail.



Note: For General Notes see Sheet No. 14.

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA

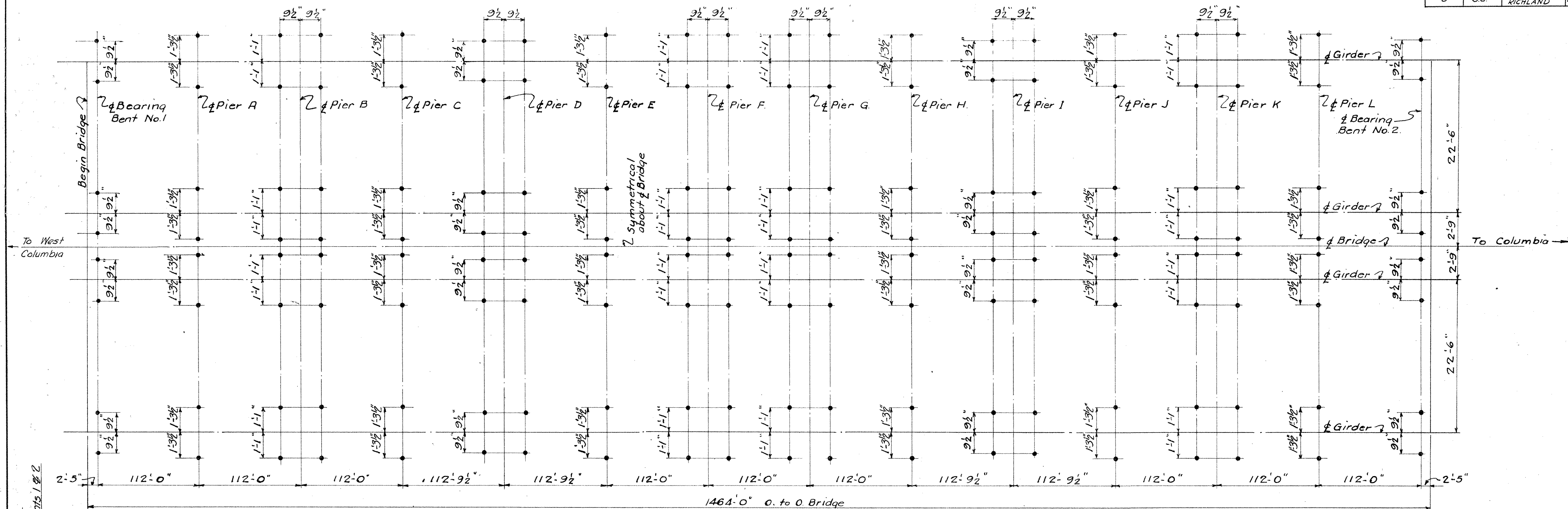
GENERAL PLAN
AND DETAILS
FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET

DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES DECEMBER 1949

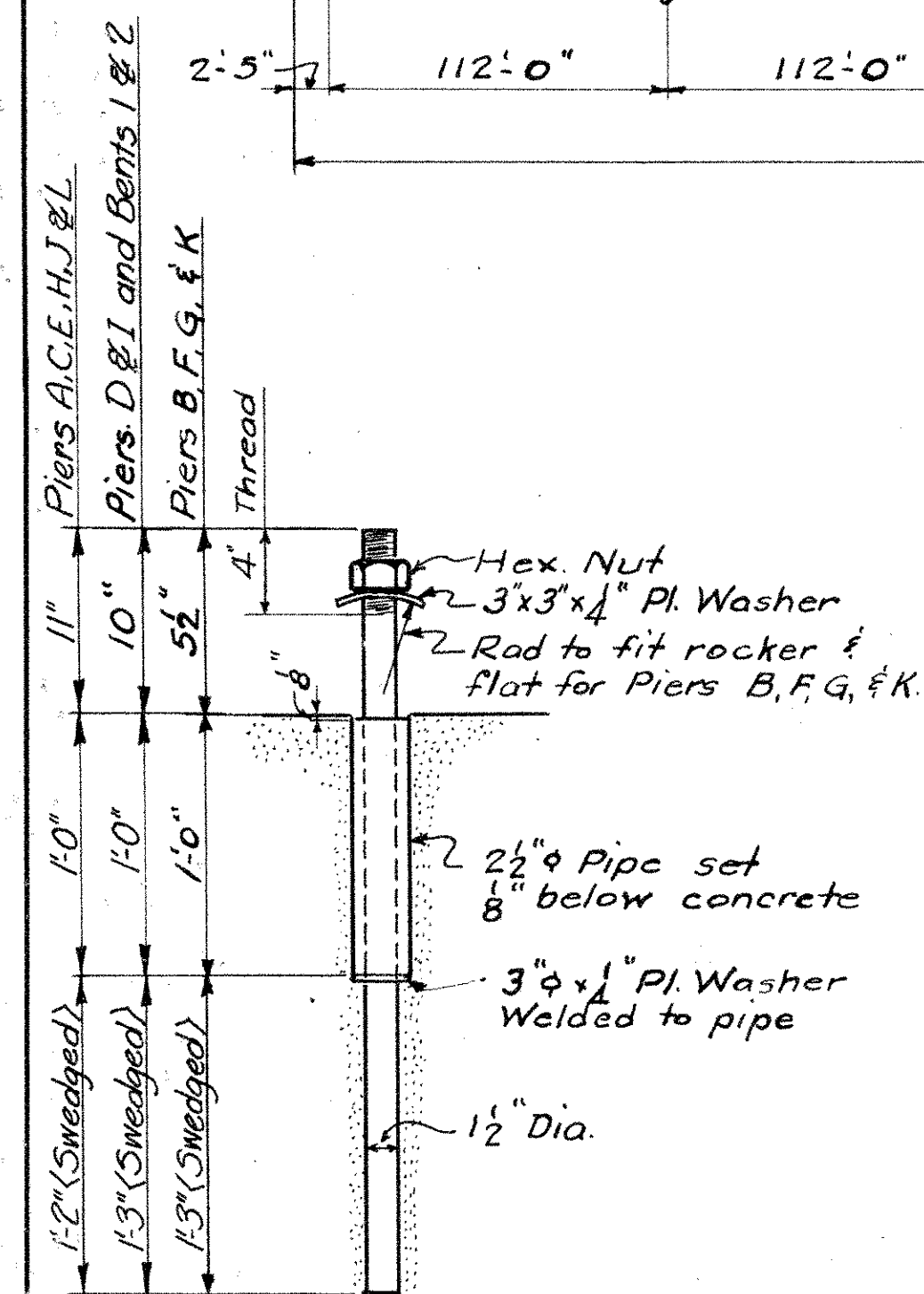
NOTE:
For location of Roadway Approach and Overhead Bridge Lighting see Sheets No. 3 to 5A & 21A-E.
Anchor Bolts to be furnished with lighting equipment and set to suit Manufacturers standards.
All costs of excavation necessary for construction of approach light pedestals to be included in the Unit Price Bid for Class "A" Concrete.

DETAILS OF ROADWAY APPROACH
LIGHTS
(Sta. 85+50.00 to Sta. 106+10.00)

FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	SC.	LEXINGTON RICHLAND	3240.216	21	8	21



ANCHOR BOLT LAYOUT
NO SCALE



ANCHOR BOLT DETAIL
SCALE: 1/2" = 1'-0"

Furnished and placed by Contractor for Dk. 3240.216.1

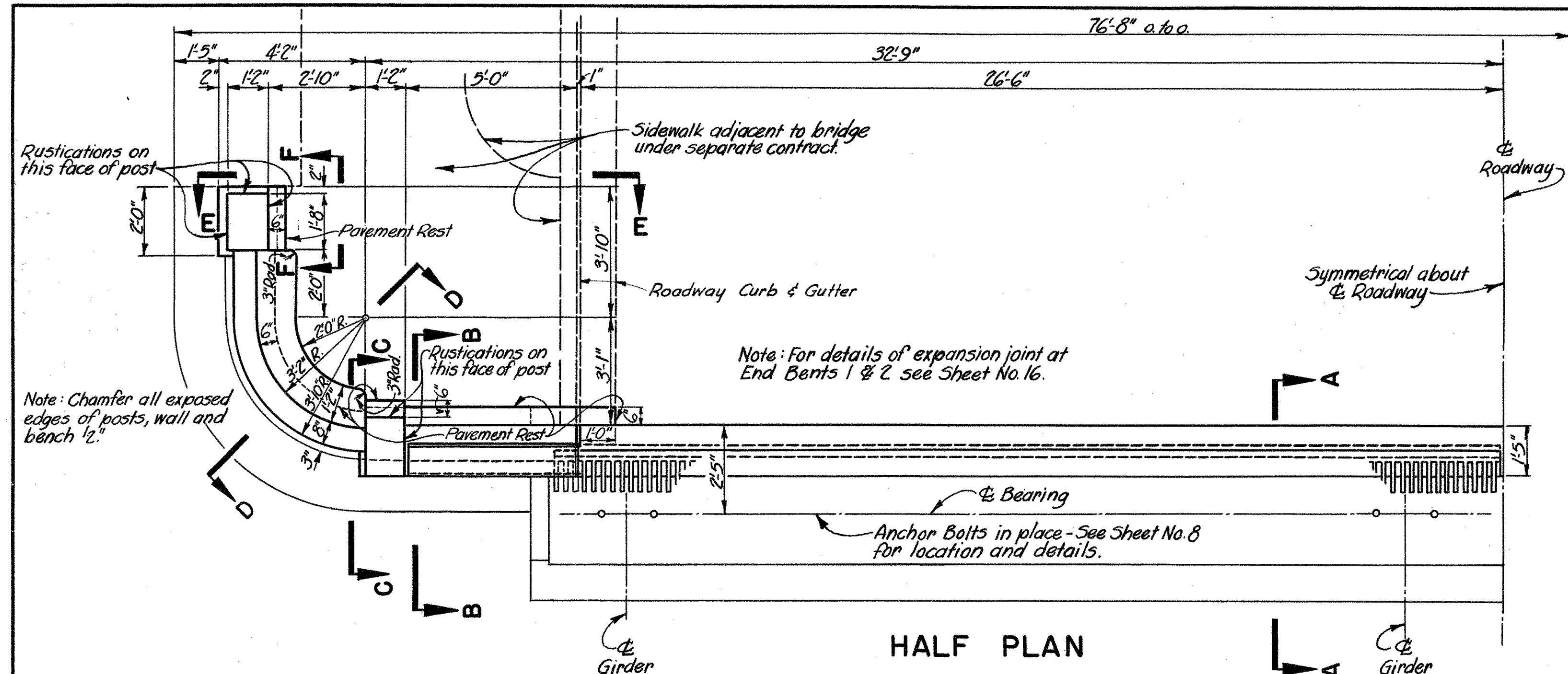
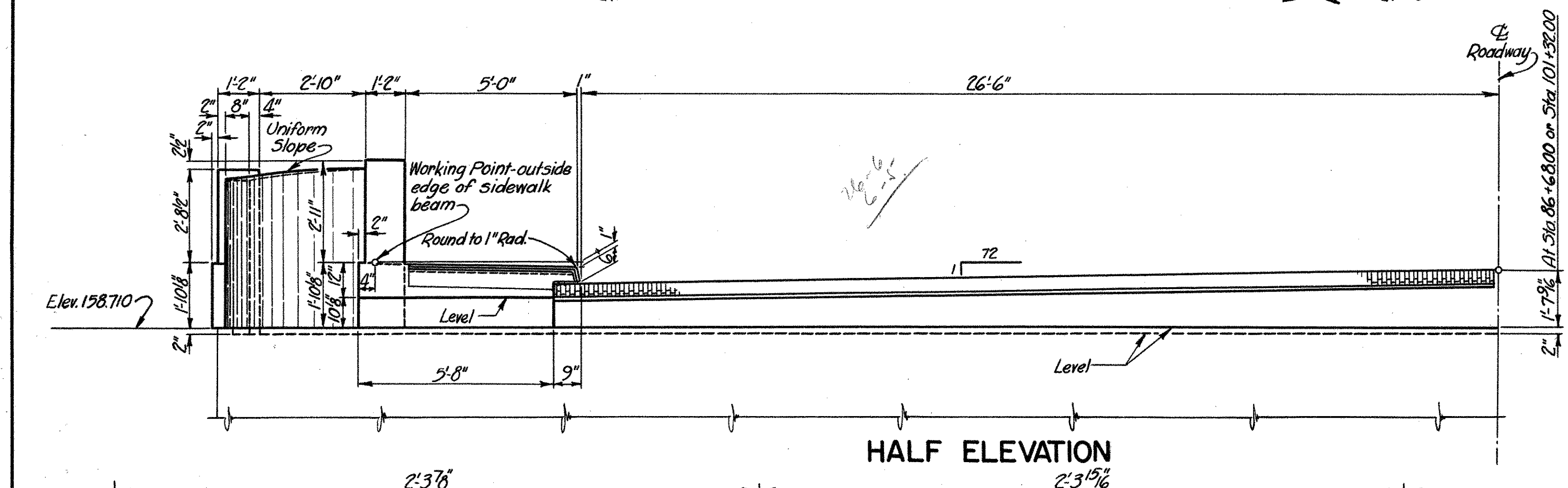
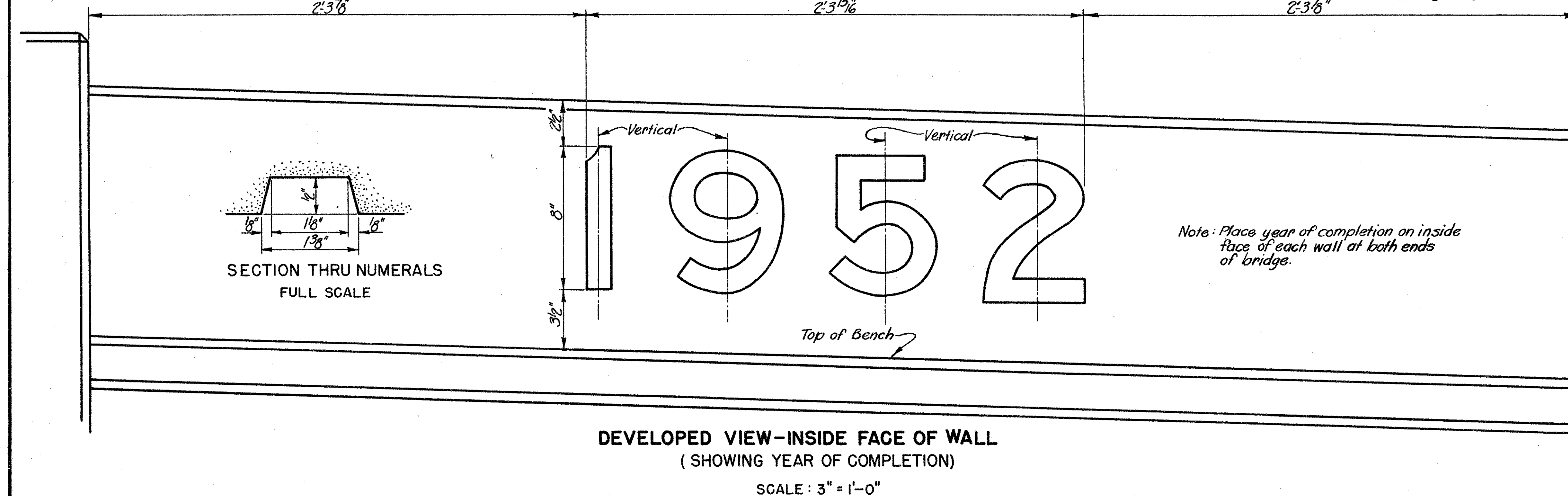
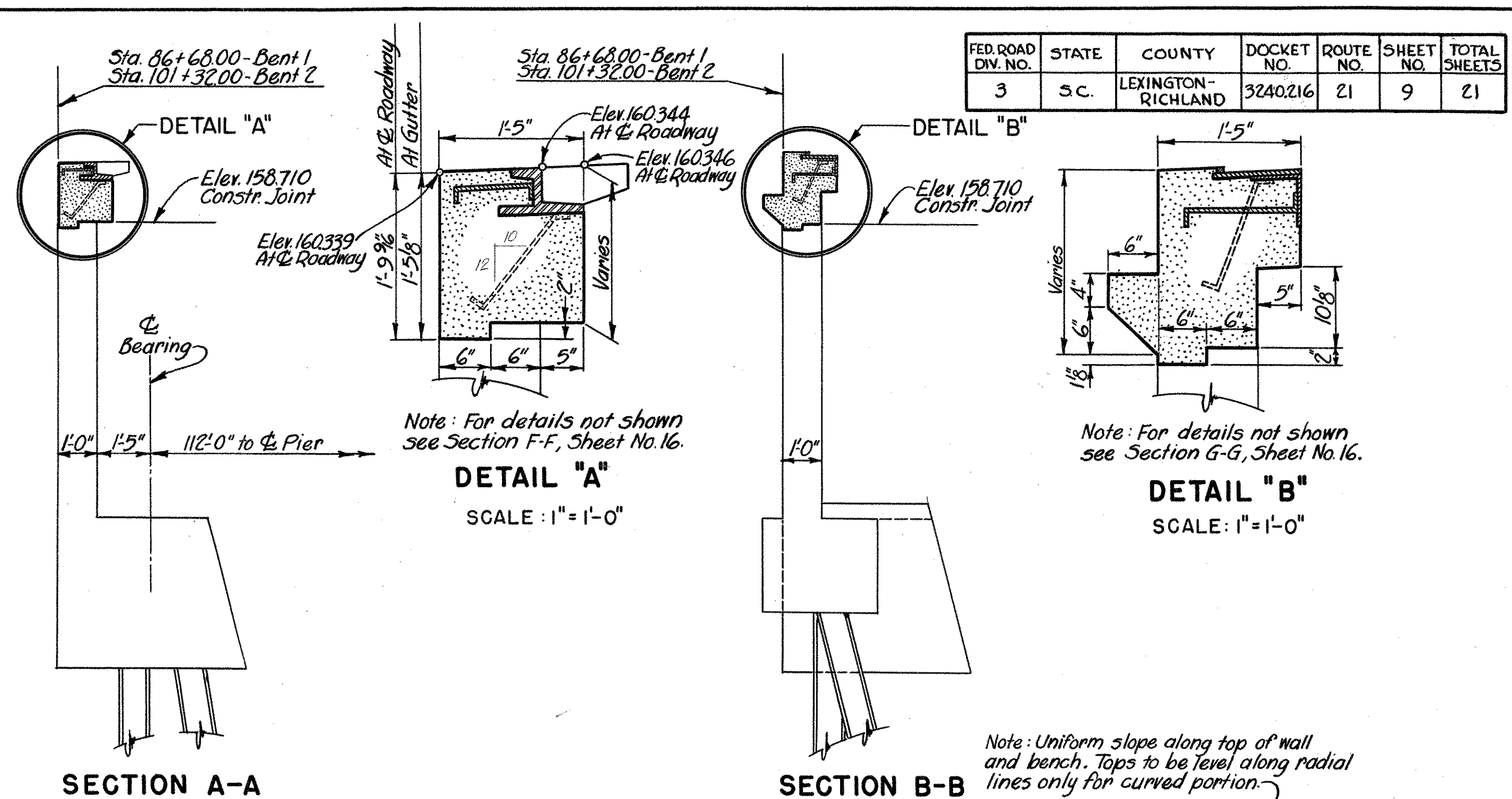
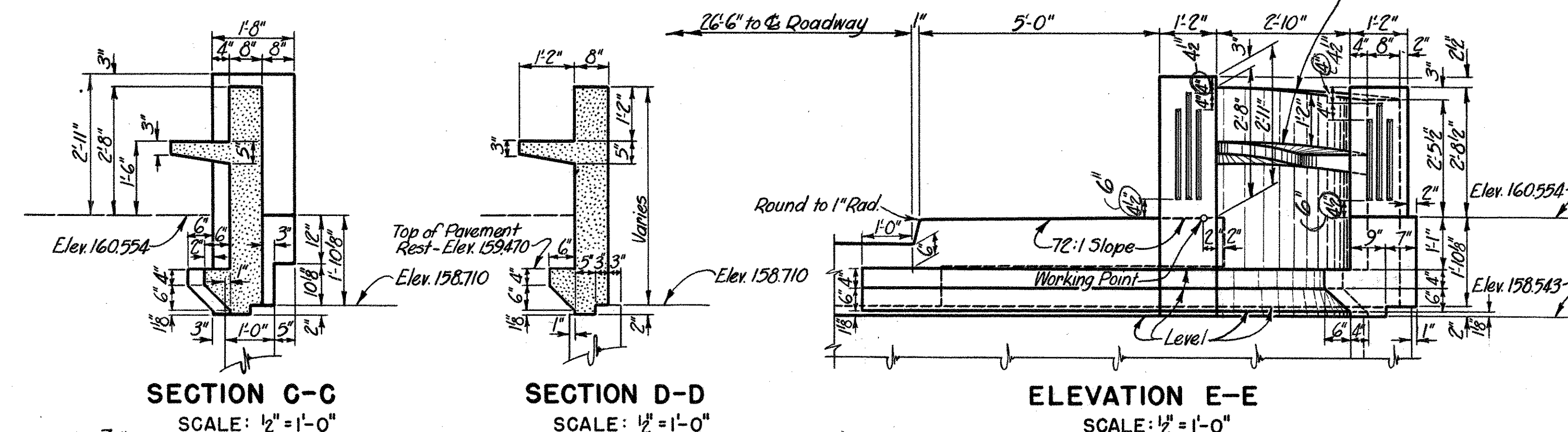
Note: Anchor Bolts furnished and placed by Substructure Contractor. (Docket No. 3240.216.1)

REV	EAS	RWH	4-50
QUAN	16	12	2
TR	EMG	RWH	12-49
DR	BMC	RWH	10-49
DES	BY	CKD	DATE

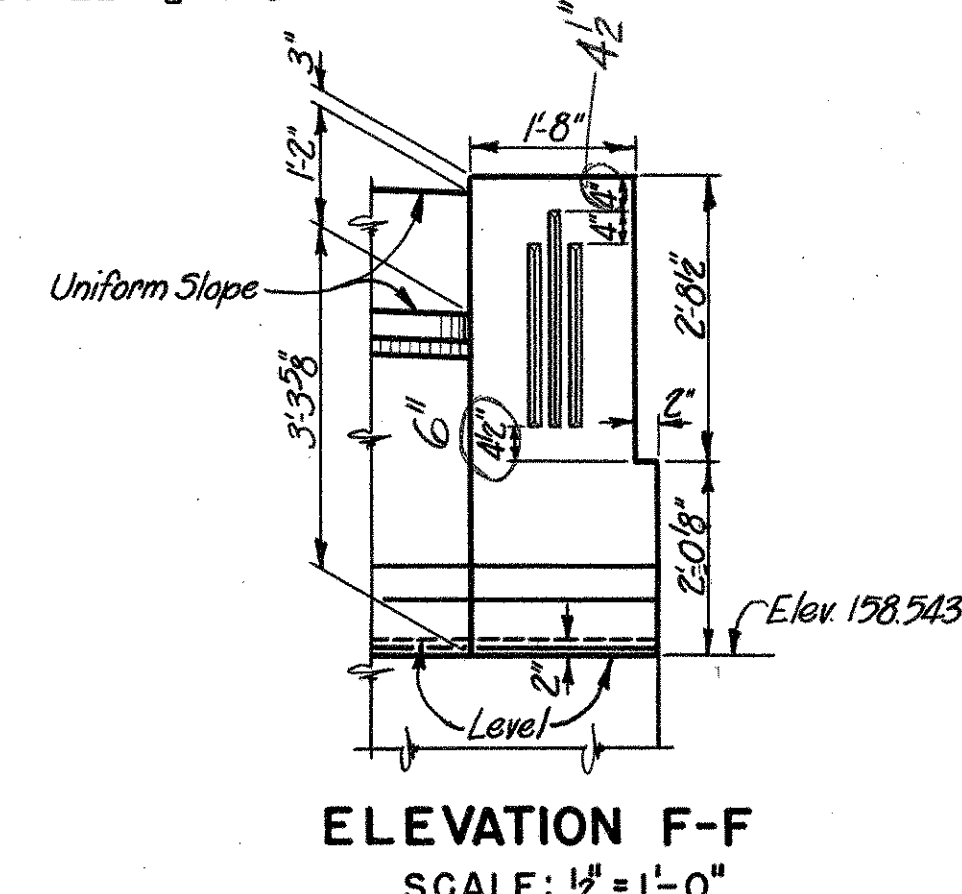
By E.A.S. Chkd. R.W.H. 6-50.
For Docket 3240.216.344

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA
**ANCHOR BOLT LAYOUT
AND DETAILS**
FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET
DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES DECEMBER 1949

FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEET
3	SC.	LEXINGTON- RICHLAND	3240.216	21	9	21



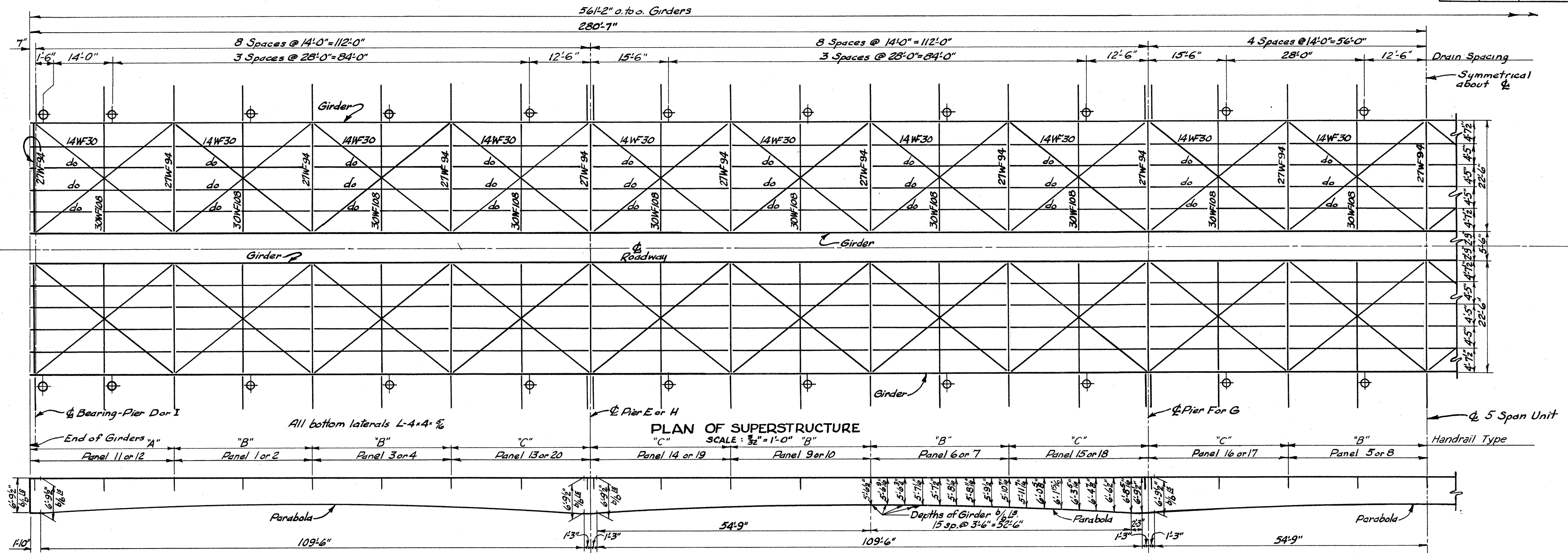
NOTES:
*Portions of End Bents in place indicated
 by light lines.*
*For details of rustications not shown see
 Sheet No. 19.*
For General Notes see Sheet No. 14.
*For Reinforcing Steel and Quantities see
 Sheet No. 10.*



REV.			
QUANT.	E.A.S.	C.E.S.	6-50
TR.	E.A.S.	R.W.H.	7-50
DR.	E.A.S.	C.E.S.	5-50
DES.	W.E.C.	R.W.H.	9-49
	BY	CHK'D	DATE

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA
TOP SECTION
END BENTS NOS. 1&2
FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET
DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES MAY 1950
SCALE: 3" = 1'-0" OR AS NOTED

FED. RD. DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S. C.	LEXINGTON-RICHLAND	3240.216	21	12	21



ELEVATION OF GIRDER
SCALE: 3/32" = 1'-0"

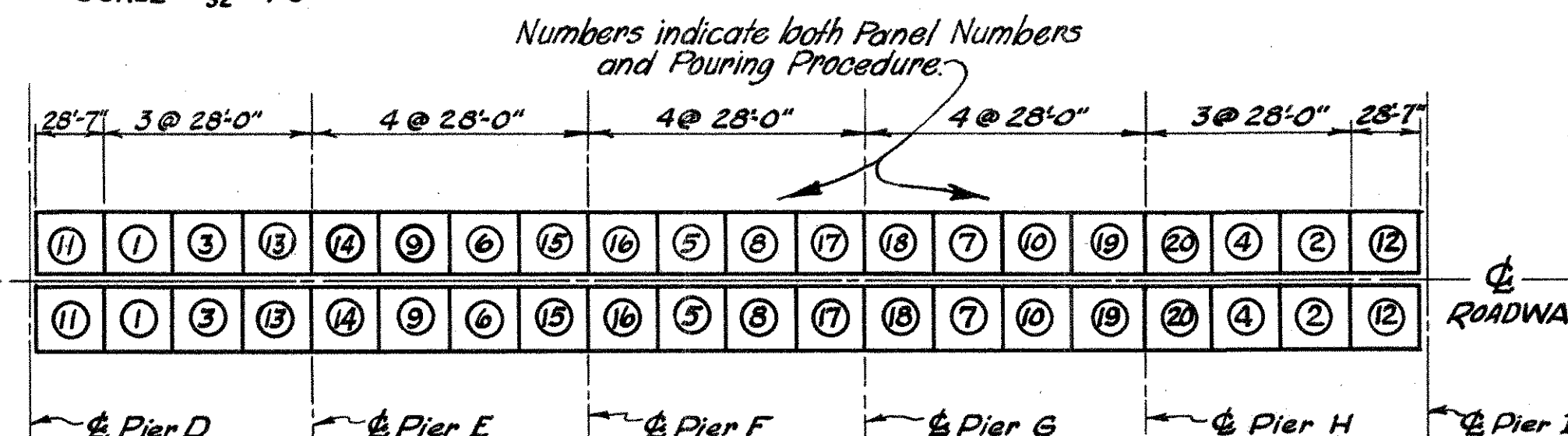
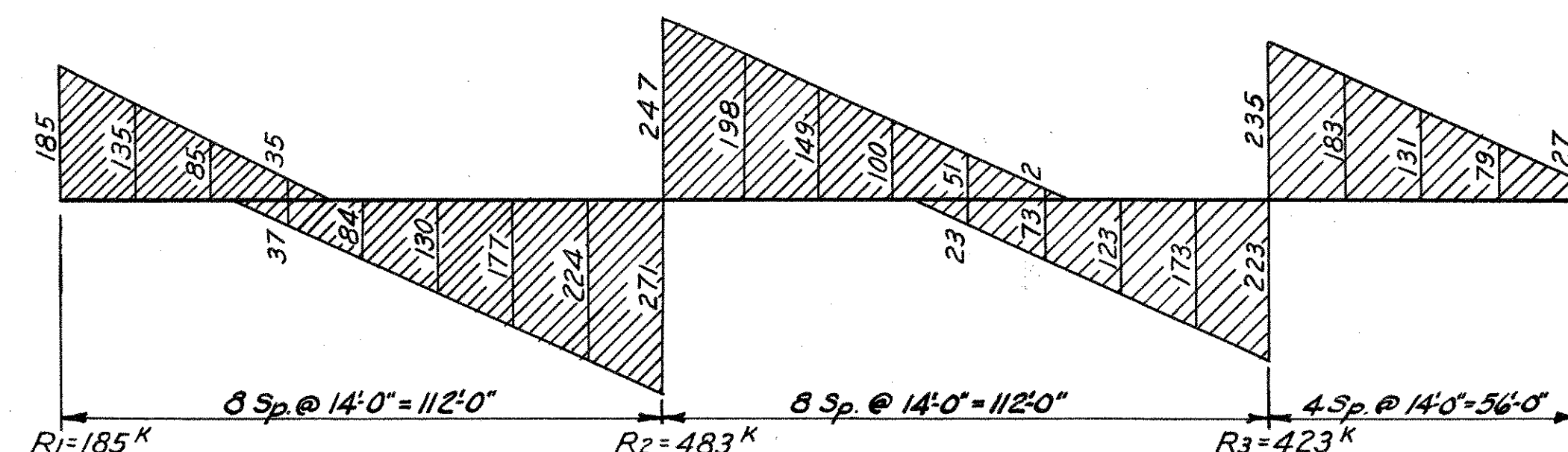


DIAGRAM OF POURING PROCEDURE
SCALE: 1" = 60'

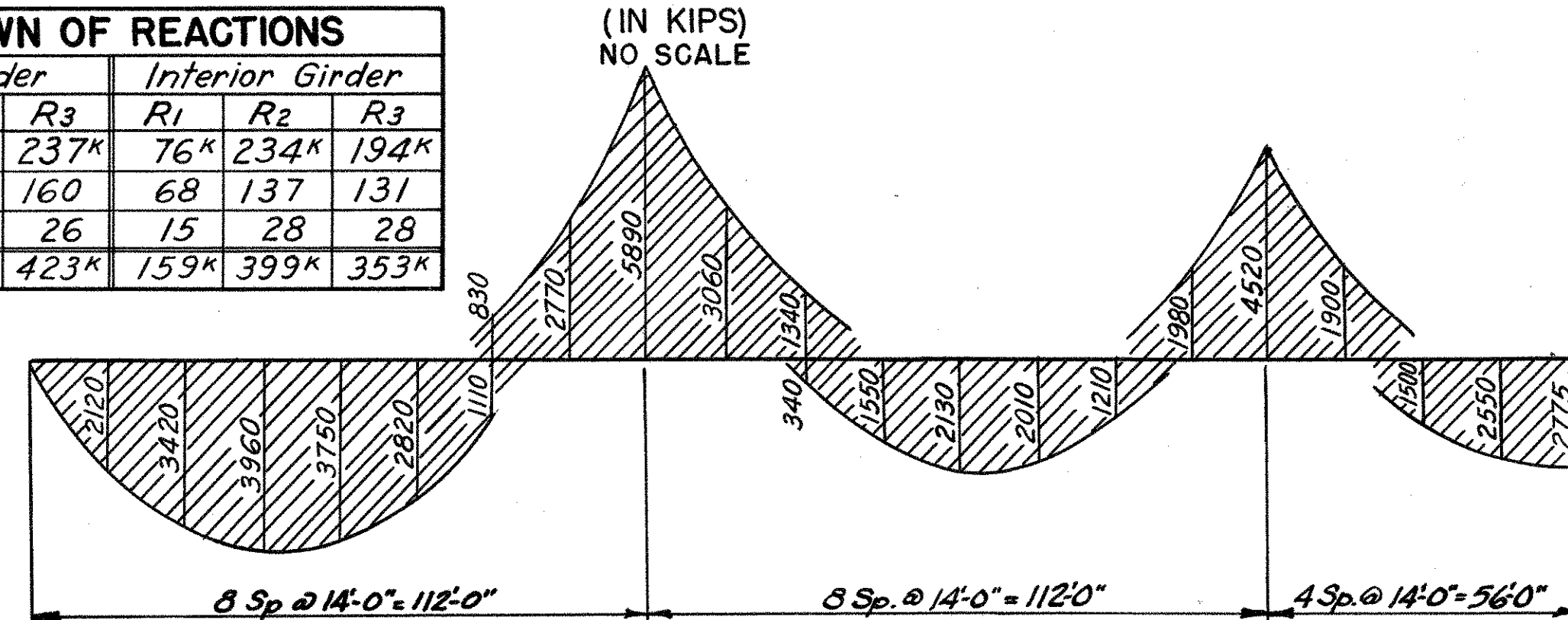
NOTES FOR POURING:
Slabs to be poured in order shown. A 36 hour interval will be required between pours except as follows:
No interval required between pouring Panels 1 & 2.
" " " " " " 3 & 4.
" " " " " " 11 & 12.
Pours 13 & 14, 15 & 16, 17 & 18 or 19 & 20 may be poured simultaneously but not consecutively without a 36 hour interval.
No prescribed order for sidewalk and handrail pourings but construction joints shall be opposite those in slab.
Pours may be made on one side of Roadway without regard to those on the other side of centerline.
No sidewalk concrete in any unit shall be placed until all roadway pours in that side of the continuous unit have been made.

NOTES:
For Camber and Deflection Diagram see Sheet No. 11, for both 4-Span Unit and 5-Span Unit.
For General Notes see Sheet No. 14.



MAXIMUM SHEAR DIAGRAM-PER EXTERIOR GIRDER

BREAK-DOWN OF REACTIONS					
Exterior Girder			Interior Girder		
R1	R2	R3	R1	R2	R3
D.L.	93K	287K	237K	76K	234K
L.L.	79	168	160	68	137
Imp.	13	28	26	15	28
Total	185K	483K	423K	159K	399K



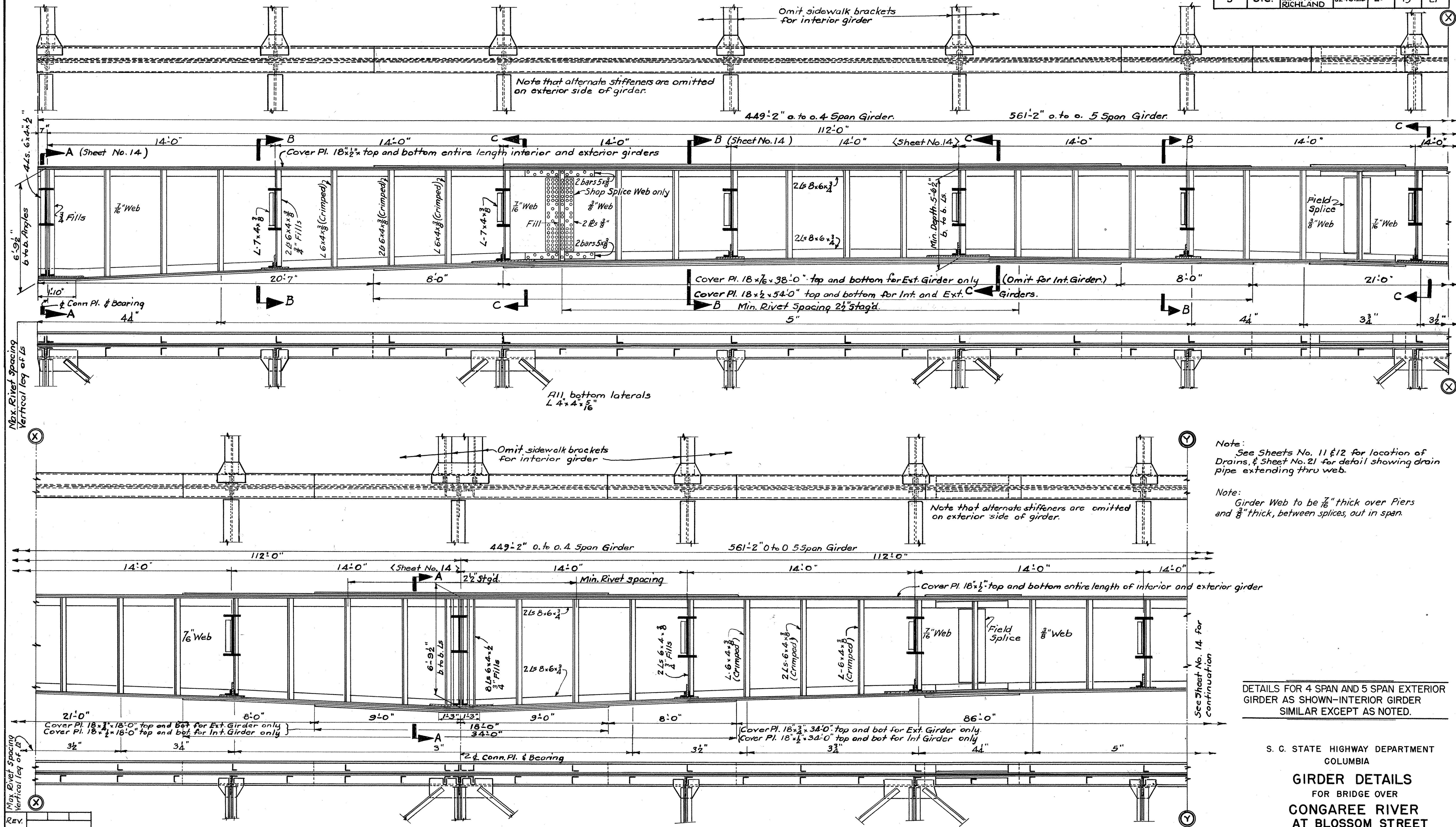
MAXIMUM MOMENT DIAGRAM-PER EXTERIOR GIRDER

(IN FT.-KIPS)
NO SCALE

REV.	BY	CHKD	DATE
1	CLAYTON R. W. H.	5-30	
2	EAS. R. W. H.	4-30	
3	W. E. C. R. W. H.	4-30	

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA
FIVE SPAN LAYOUT
FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET
DOCKET 3240.216 ROUTE NO. 21
COUNTY-LEXINGTON- DATE- APRIL 1950
RICHLAND SCALE: AS NOTED

FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET No.	ROUTE No.	SHEET No.	TOTAL SHEETS
3	S. C.	LEXINGTON RICHLAND	3240.216	21	13	21



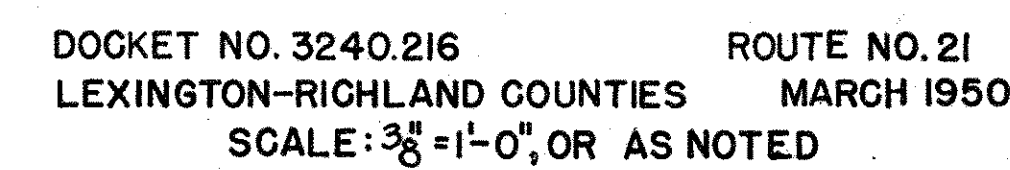
DETAILS FOR 4 SPAN AND 5 SPAN EXTERIOR GIRDER AS SHOWN-INTERIOR GIRDER SIMILAR EXCEPT AS NOTED.

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA
GIRDER DETAILS
FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET

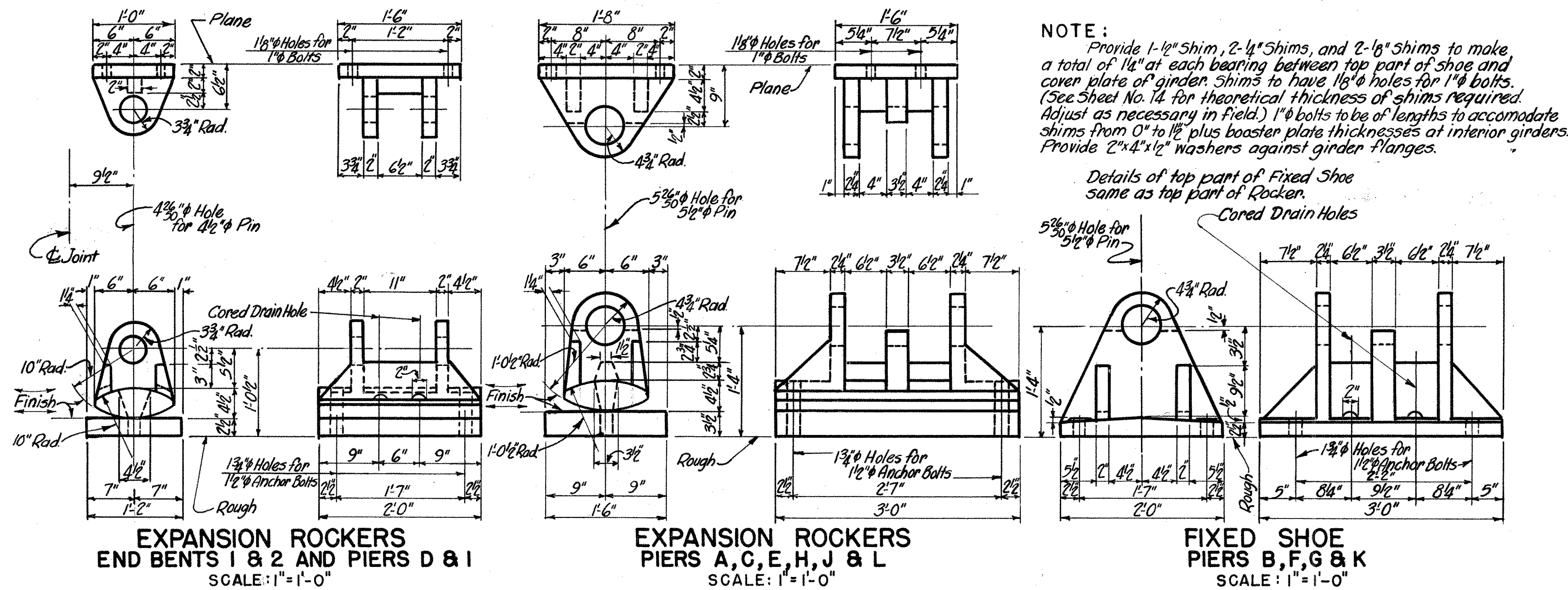
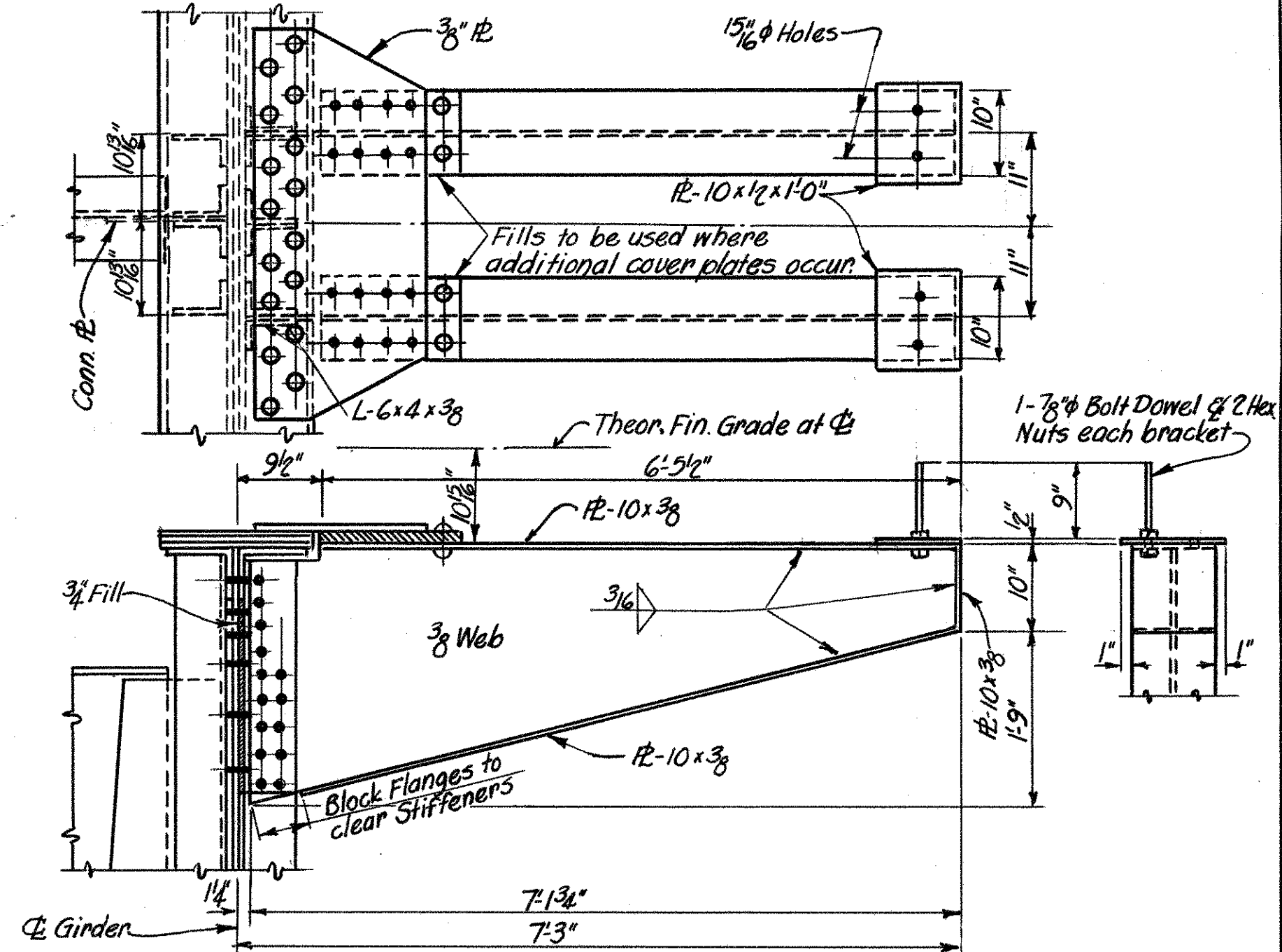
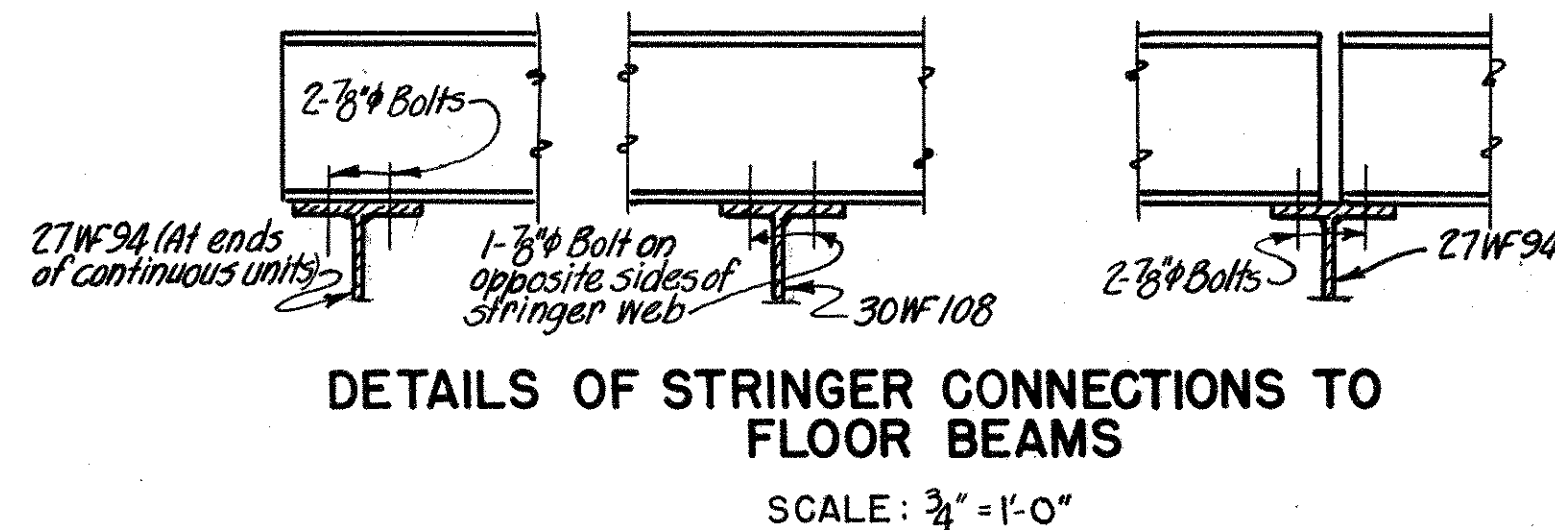
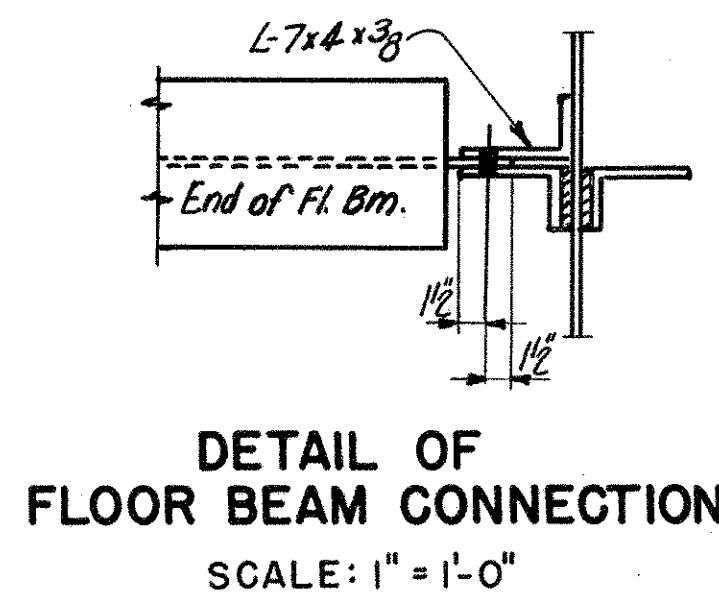
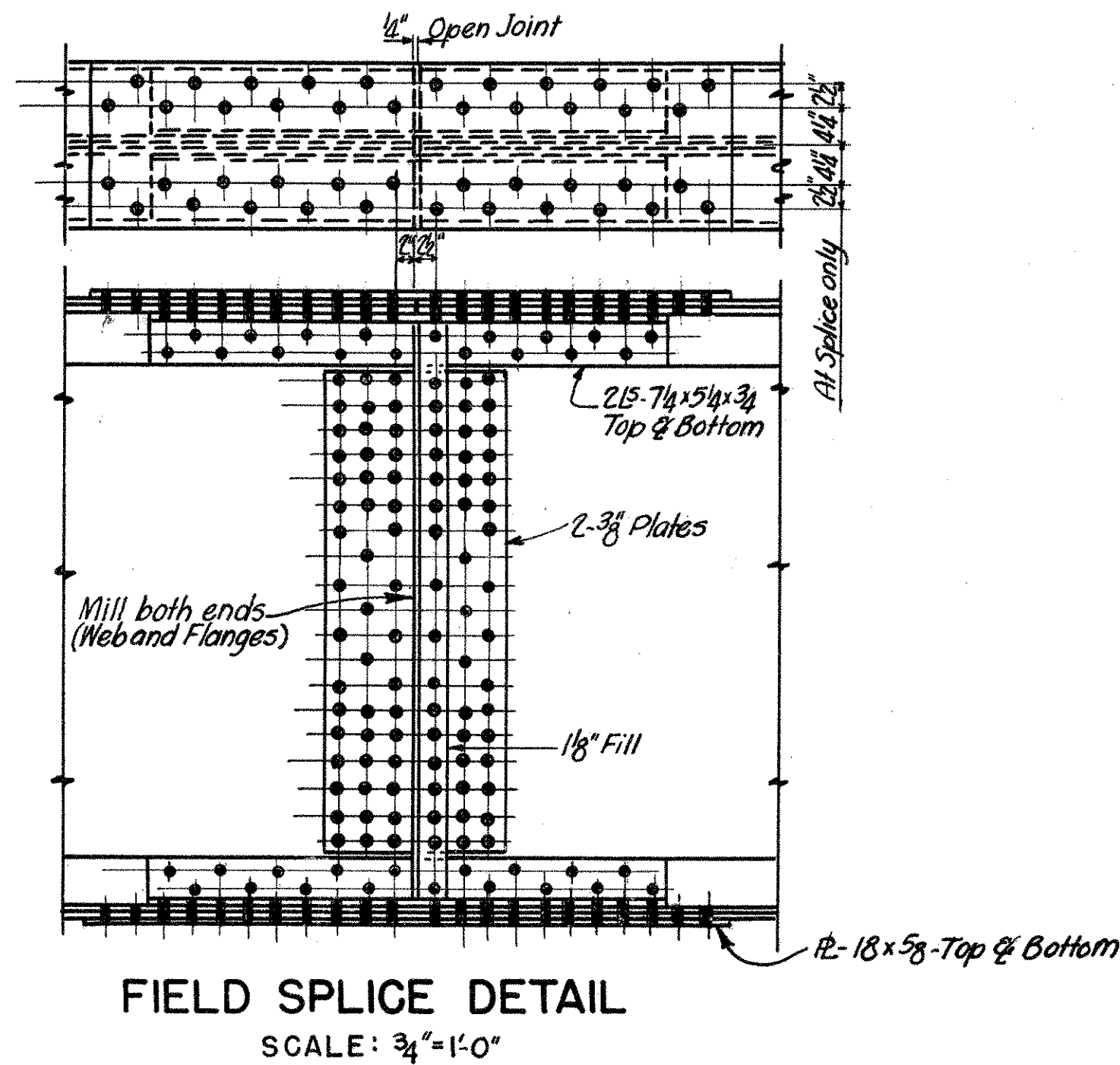
DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES MARCH 1950
SCALE: 3/8" = 1'-0", OR AS NOTED

REV.	BY	CHKD.	DATE
1	EMQ	CES	6-50
2	EMQ	RWH	7-50
3	DR	EAS	8-50
4	DES	WEC	3-50
5	BY	CHKD.	DATE

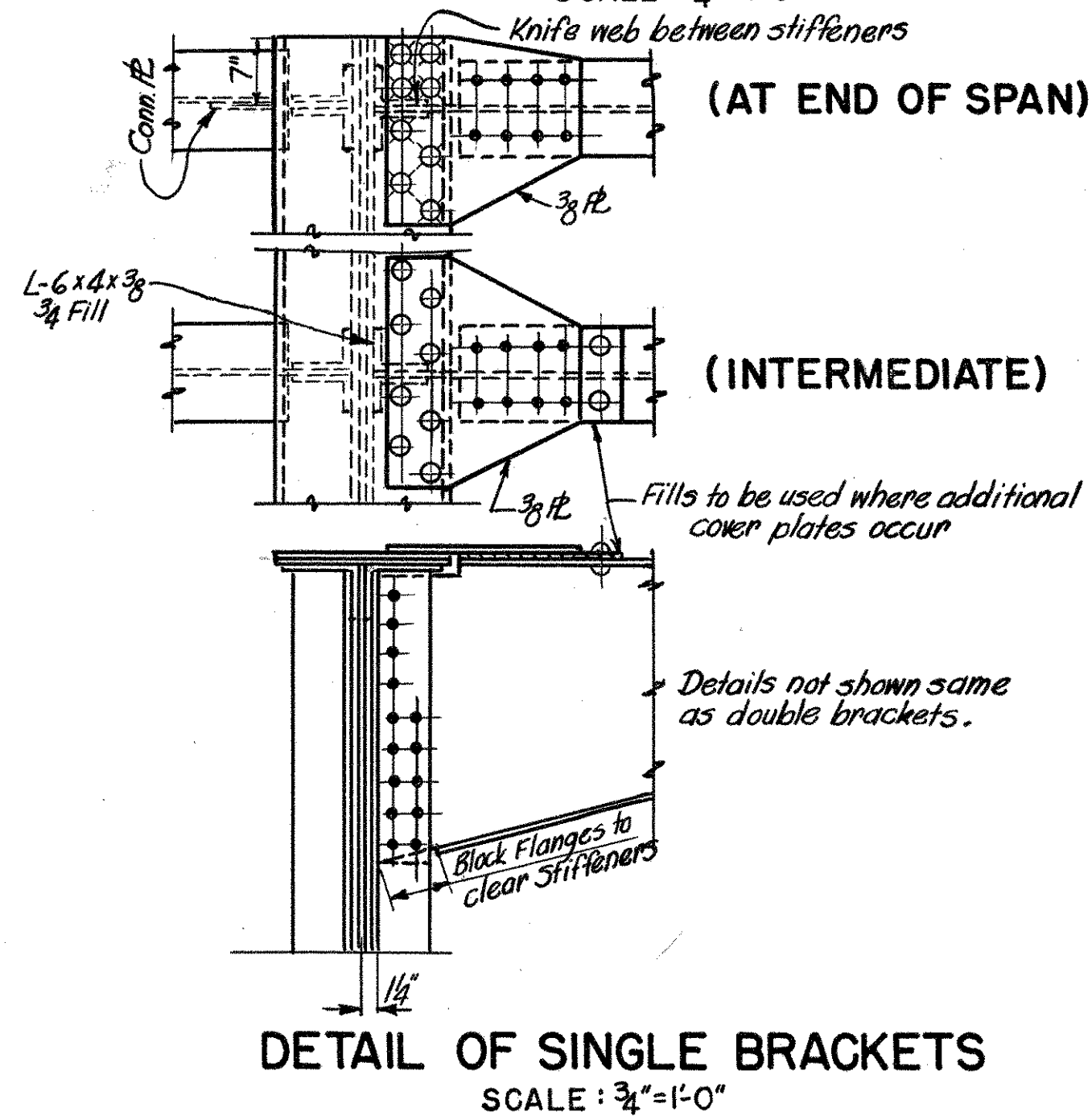
REV.			
QUANT.	EMQ	CES	5-50
TR.	EMQ	EAS	6-50
DR.	EAS	RWH	3-50
DES.	WEC	RWH	3-50
	BY	CHK'D	DATE



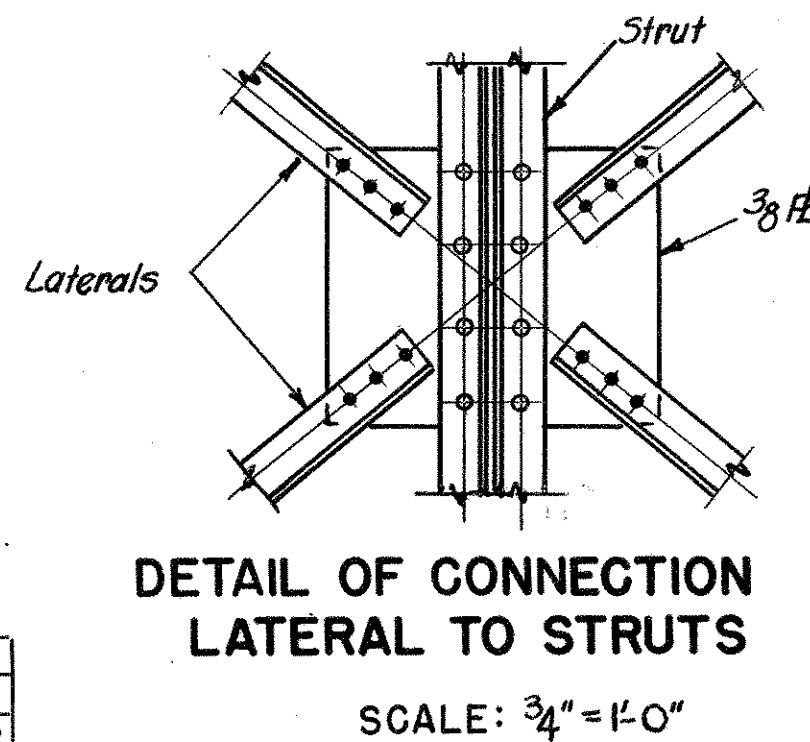
FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	LEXINGTON- RICHLAND	3240.216	21	15	21



NOTE: Provide sufficient clearance between rivets in splice angles to allow for field driving.



NOTES:
For Drain Details see Sheet No. 21.
For Anchor Bolt Layout see Sheet No. 8.
Rockers and fixed shoes to be cast steel. Rocker bearing plates to be rolled steel.
Rockers to be set vertical at 70°F.



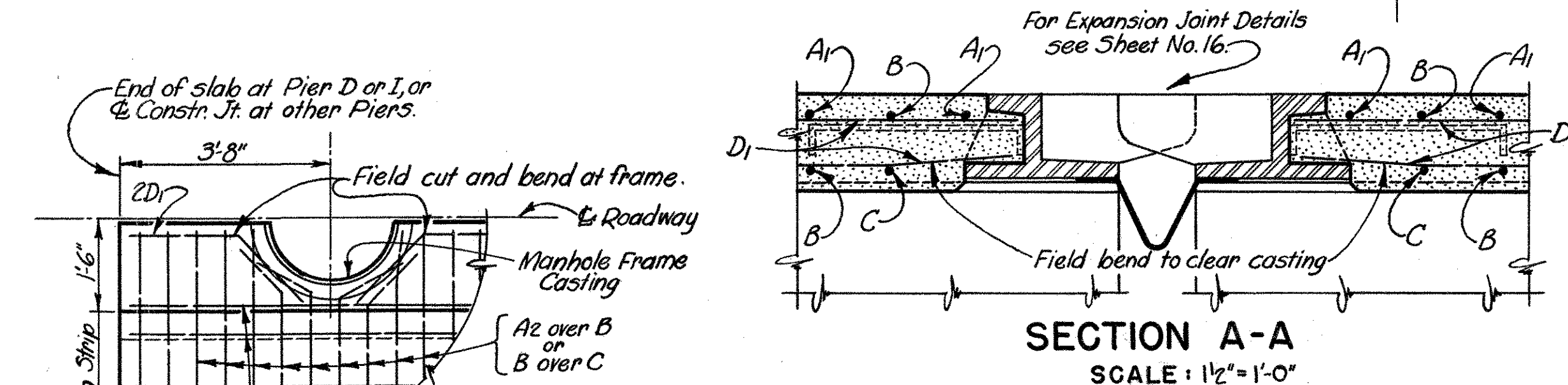
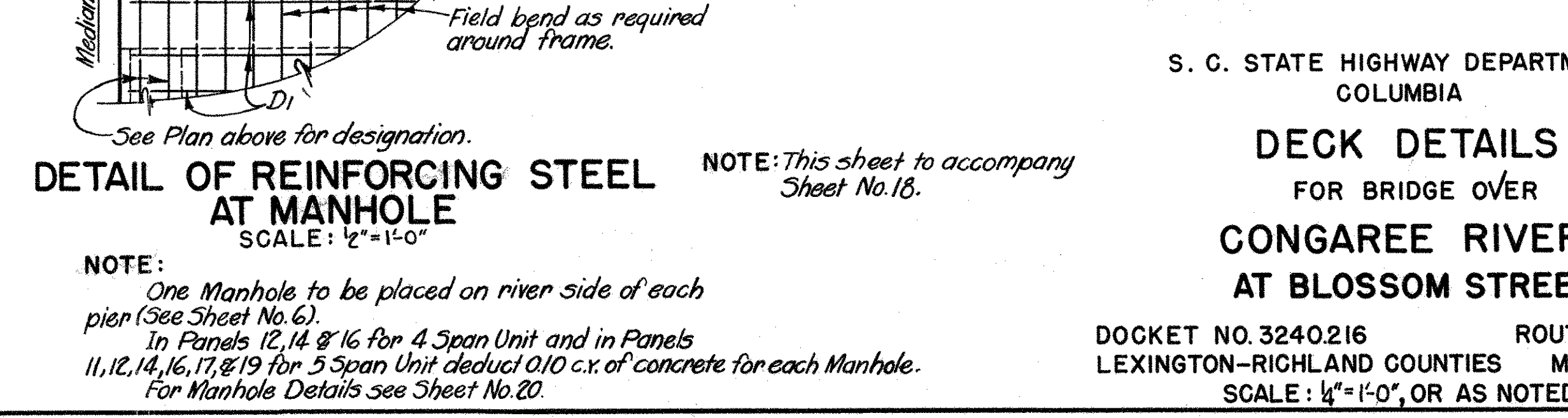
REV.			
QUANT.	EMQ	CES	5-50
TR.	EMQ	RWH	7-50
DR.	EAS	RWH	4-50
DES.	WEC	RWH	4-50
BY	CHK'D	DATE	

S.C. STATE HIGHWAY DEPARTMENT
COLUMBIA

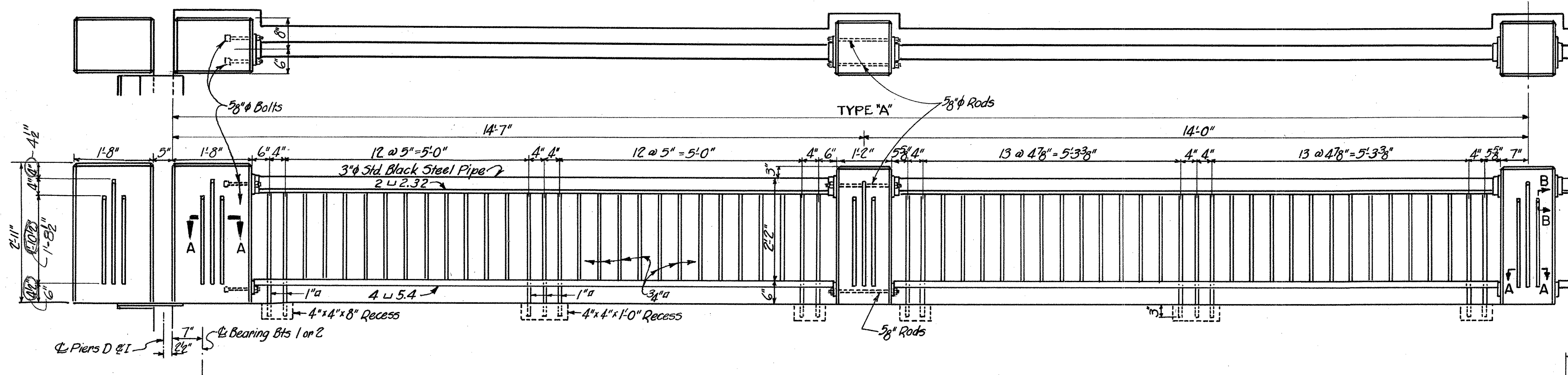
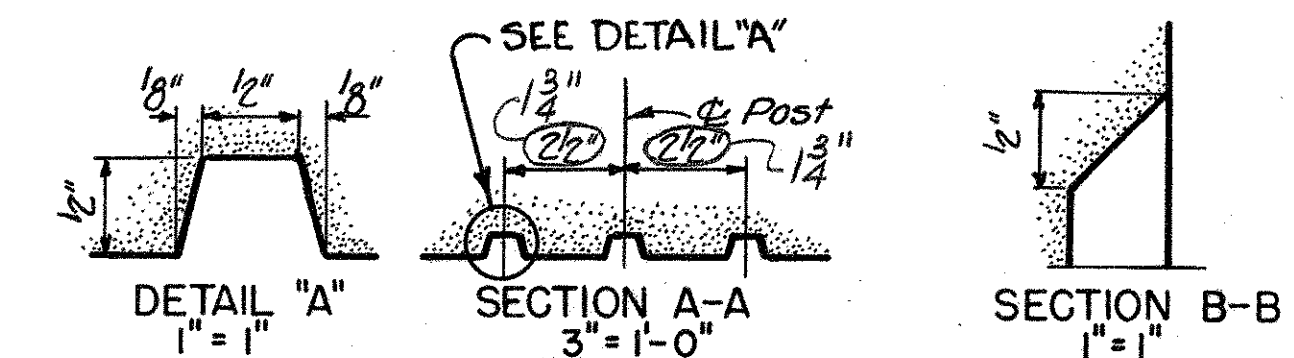
GIRDER DETAILS FOR BRIDGE OVER CONGAREE RIVER AT BLOSSOM STREET

DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES APRIL 1950
SCALE AS NOTED

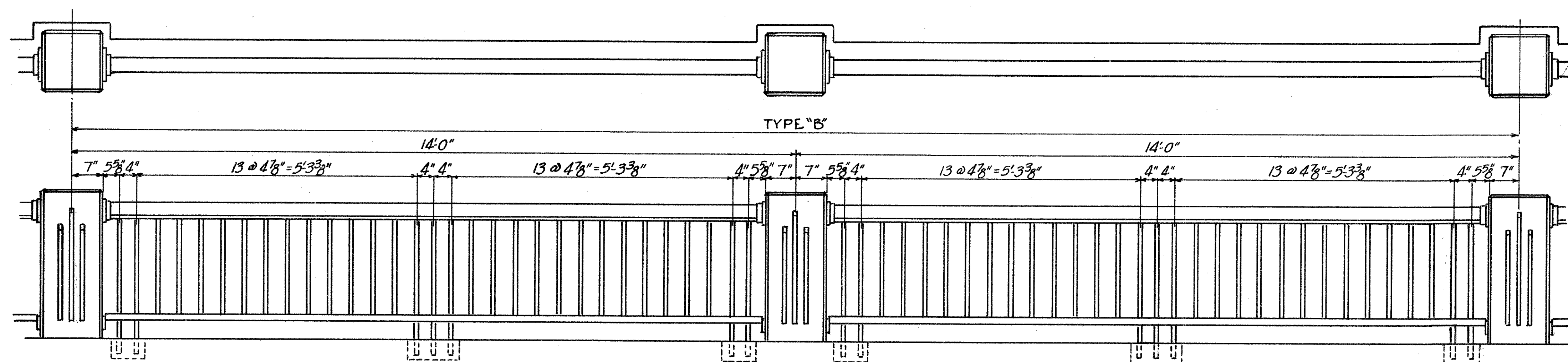
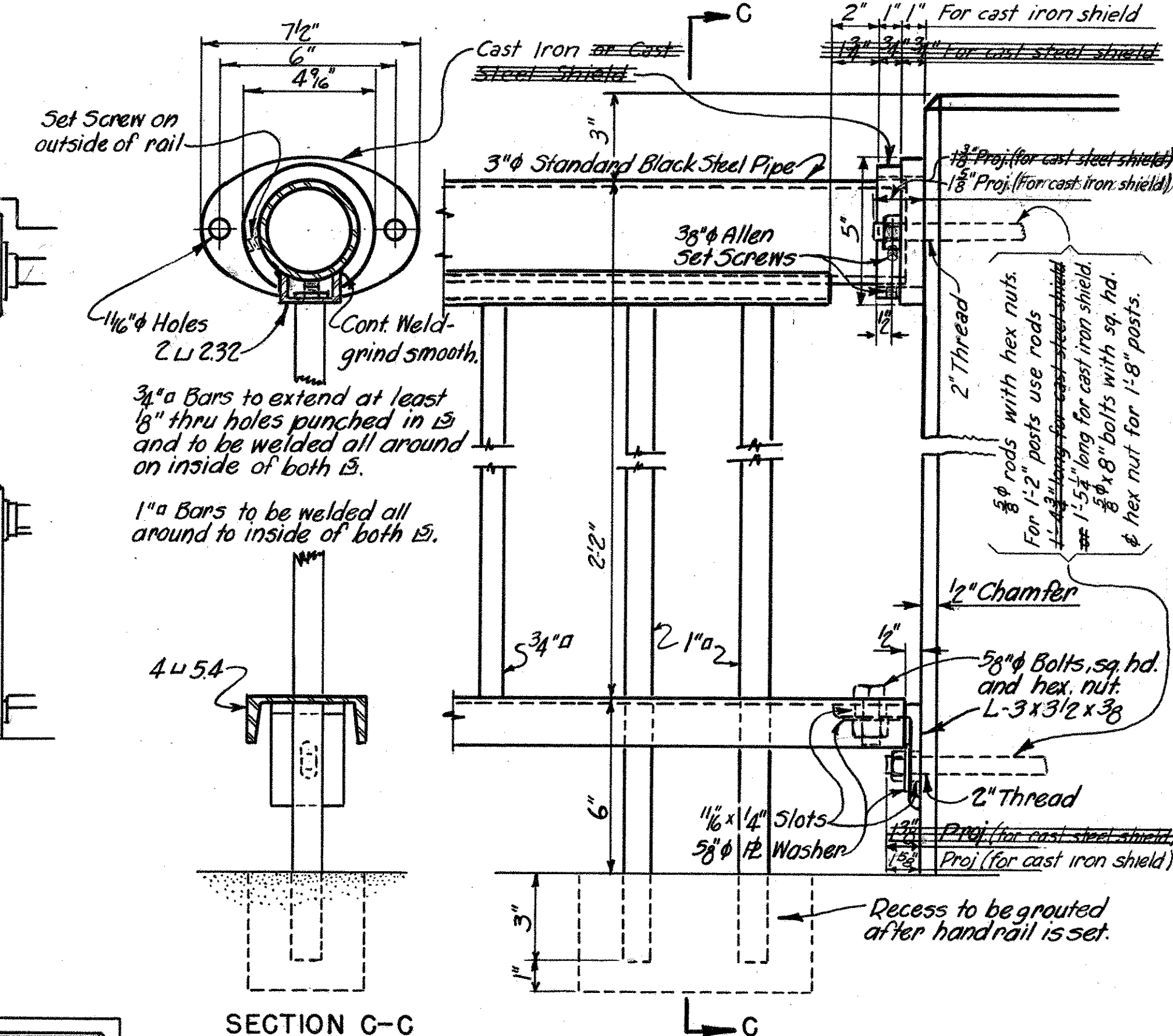
REV.			
QUANT.	C.E.S. P.W.H.	E.A.S.	6-50
TR.	E.A.S.	R.W.H.	7-50
DR.	E.A.S.	R.W.H.	3-50
DES.	W.E.C.	R.W.H.	3-50
	BY	CHK'D	DATE



FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	LEXINGTON- RICHLAND	3740.216	21	19	21



DETAILS OF RUSTICATIONS
(TYPICAL FOR ALL OPEN FACES OF ALL POSTS, BOTH INSIDE & OUTSIDE)



DETAILS AT POSTS
SCALE: 3"=1'-0"

NOTES:

NOTES: All posts are to be set vertical.
Bolts are to be painted with one coat of red lead before placing and the portion projecting from concrete with a second coat after forms are removed.

TOTAL NO. PANELS	
No. Regd.	Type
12	"A"
52	"B"
40	"C"

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA

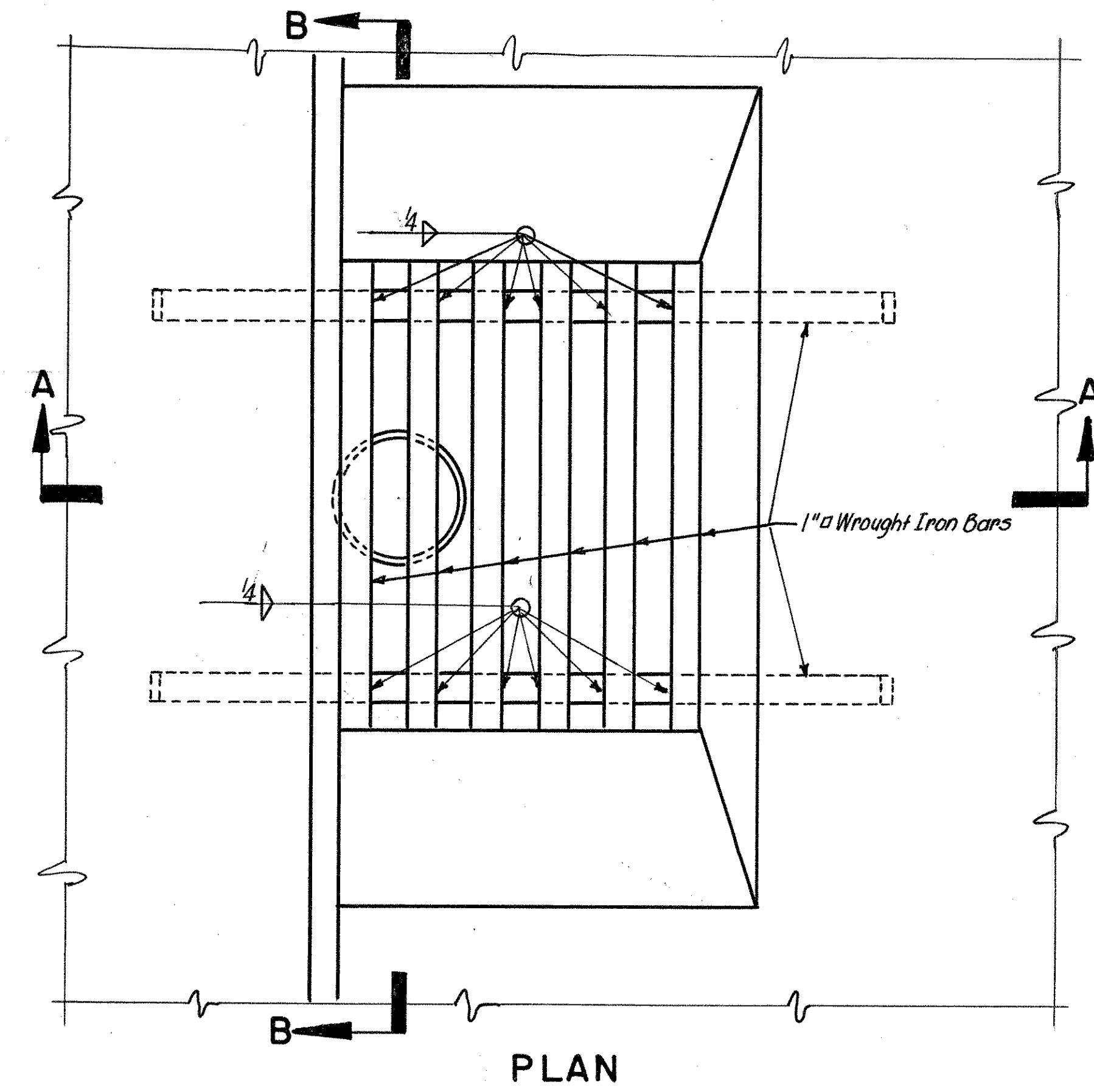
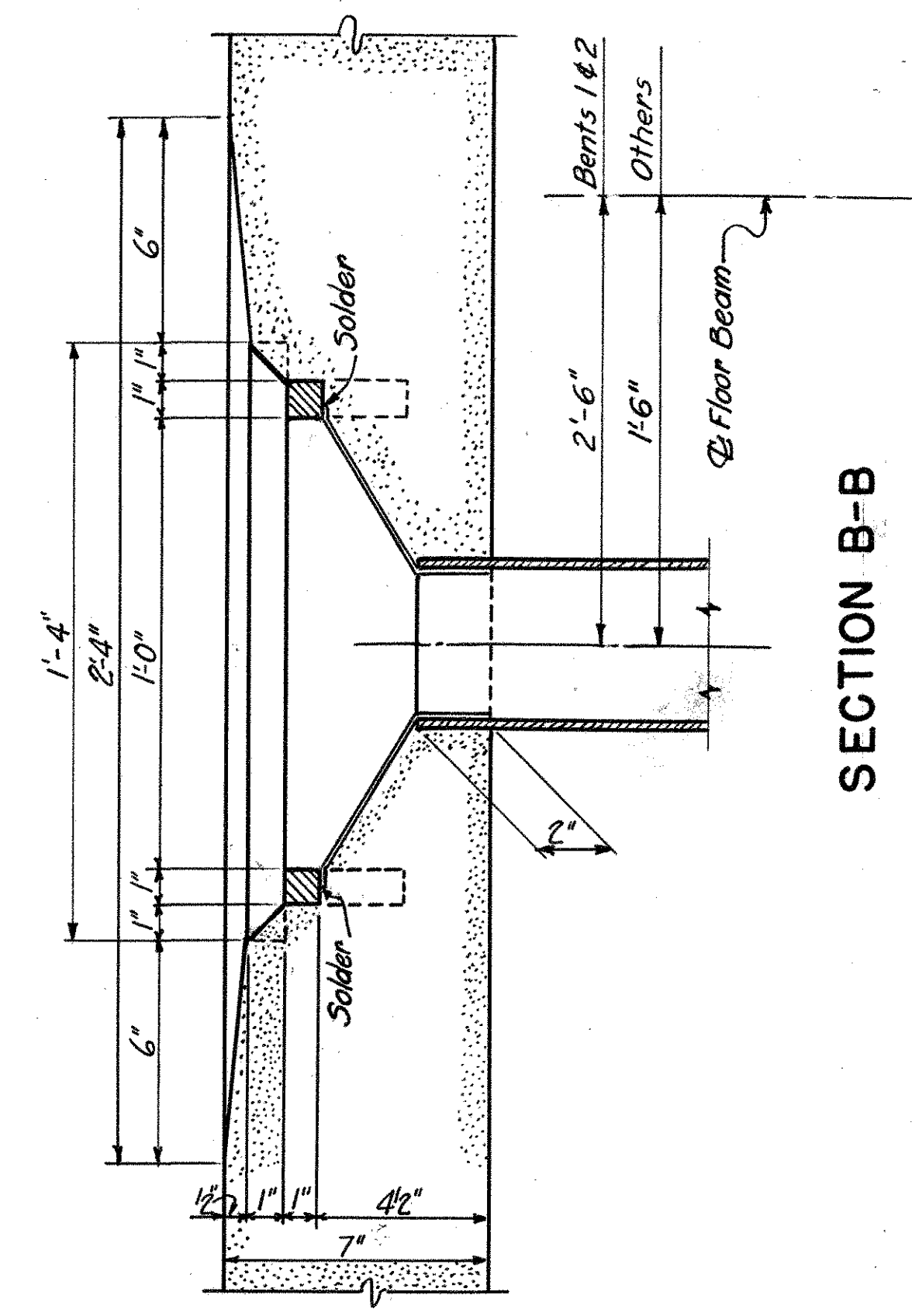
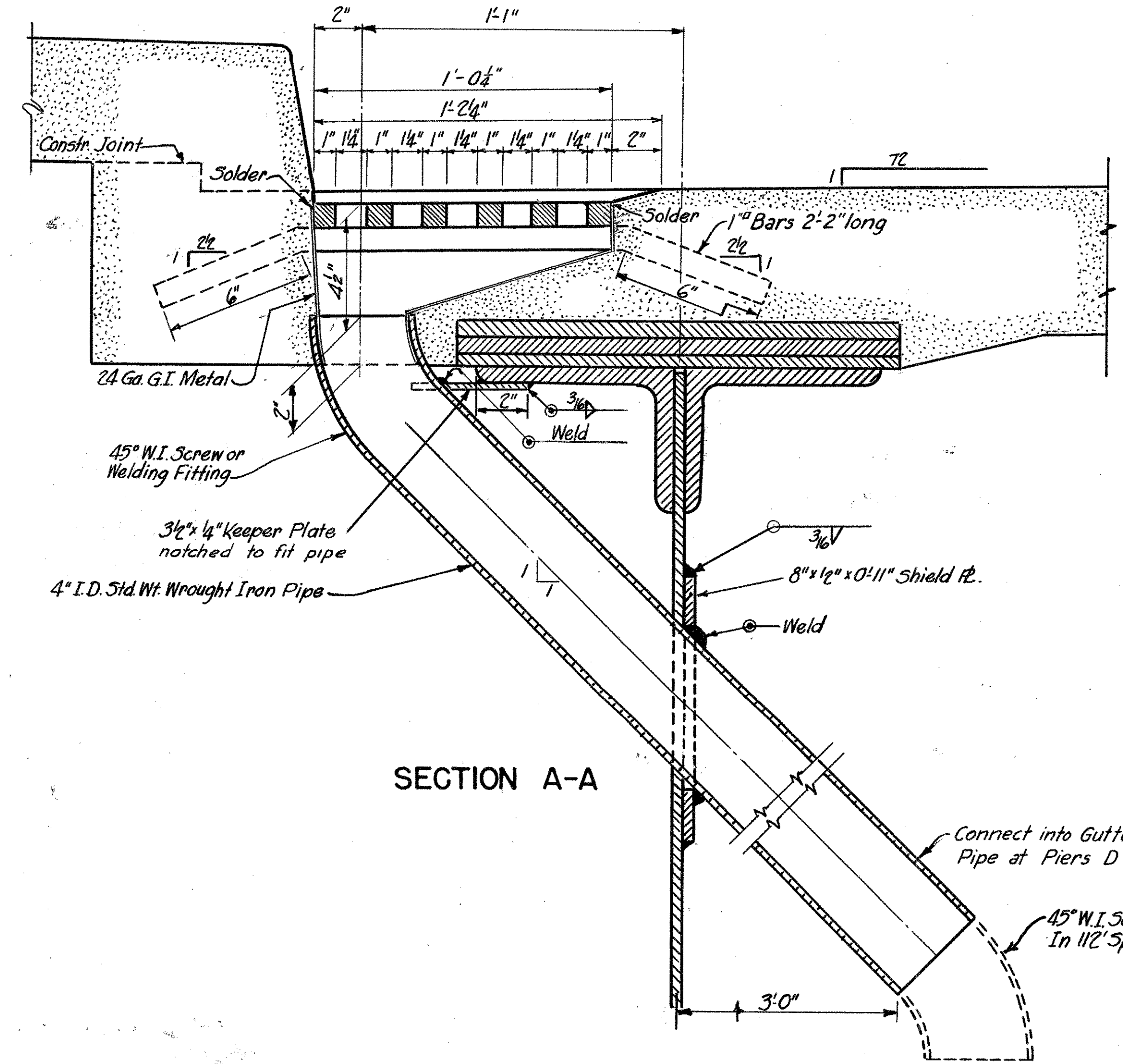
HANDRAIL DETAILS

FOR BRIDGE OVER CONGAREE RIVER AT BLOSSOM STREET

DOCKET NO. 3240.216 ROUTE NO. 21
LEXINGTON-RICHLAND COUNTIES MARCH 1950
SCALE: $3\frac{1}{2}" = 1'-0"$, OR AS NOTED

REV.			
QUANT.	EAS.	CES.	6-50
TR.	EMQ.	R.W.H.	7-50
DR.	CES.	R.W.H.	3-50
DES.	W.E.C.	R.W.H.	3-50
	BY	CHK'D	DATE

FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	LEXINGTON-RICHLAND	3240.216	21	21	21



NOTES:
 Grating and Sheet Metal Hood to be paid for as Reinforcing Steel and are included with Deck Quantities.
 All costs of furnishing and placing drain pipe and connections to be included in lump sum bid for Steel Superstructure.
 For location of drains see Sheets No. 11 & 12.

112 Drains Required

S. C. STATE HIGHWAY DEPARTMENT
 COLUMBIA
DRAIN DETAILS
 FOR BRIDGE OVER
CONGAREE RIVER
AT BLOSSOM STREET
 DOCKET NO. 3240.216 ROUTE NO. 21
 LEXINGTON-RICHLAND COUNTIES FEB. 1950
 SCALE: 3"=1'-0"

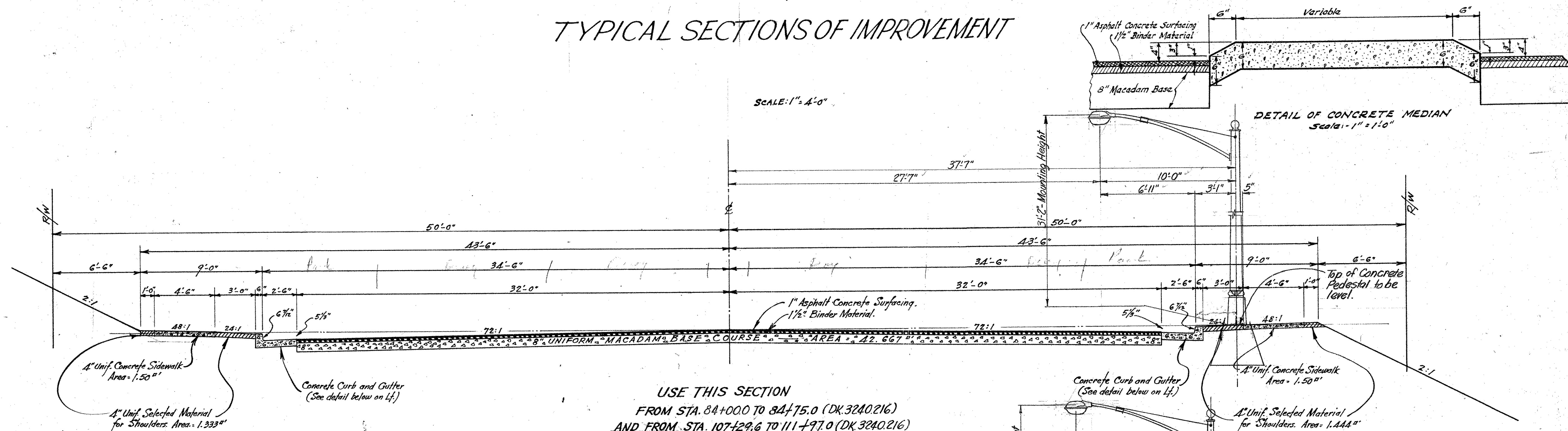
REV			
QUANT.	R.W.H.	E.A.S.	6-70
TR.	E.M.Q.	R.W.H.	7-50
DR.	C.E.S.	R.W.H.	2-50
DES.	W.E.C.	R.W.H.	2-50
BY	CHKD	DATE	

Fed. Road Dist. No.	State	County	Dkt. No.	F.A.R. No.	R/L No.	Sheet No.	Total Sheets
3	S.C.	Lexington Richland	3240.216		U.S. 21	21A	21

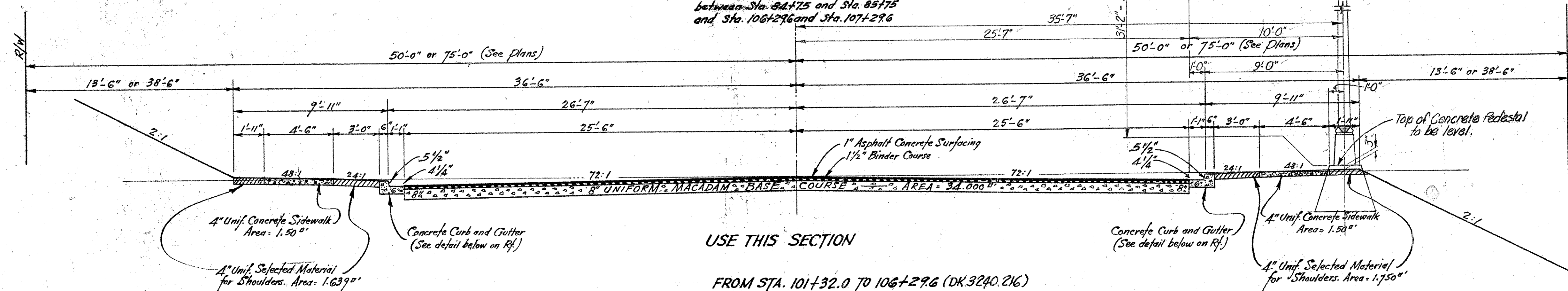
S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA

TYPICAL SECTIONS OF IMPROVEMENT

SCALE: 1" = 4'-0"

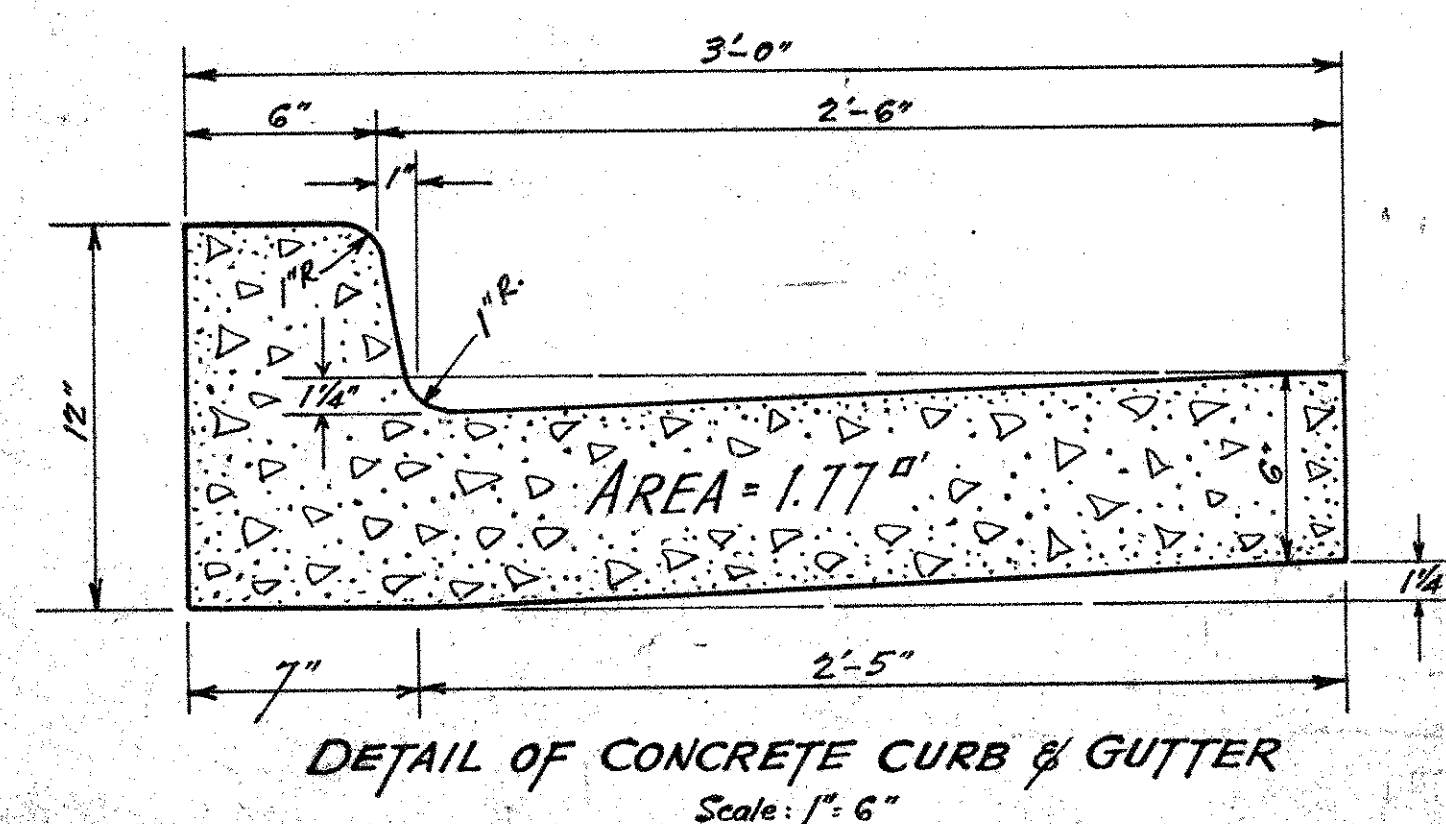
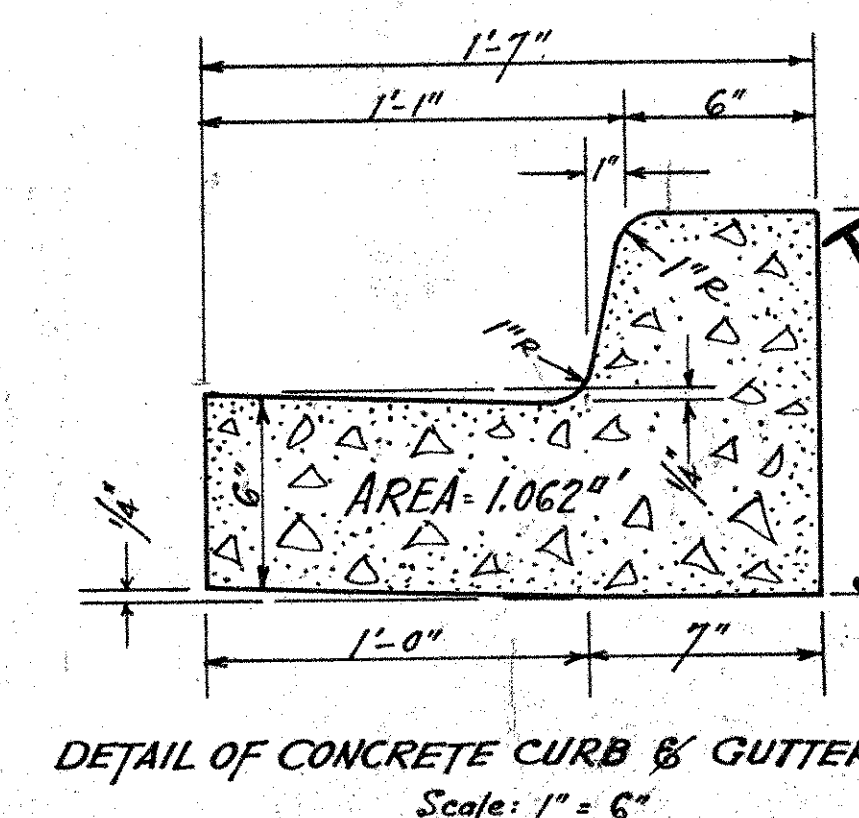


USE THIS SECTION
FROM STA. 84+00.0 TO 84+75.0 (DK. 3240.216)
AND FROM STA. 107+29.6 TO 111+97.0 (DK. 3240.216)
AND ON RT. OF C. AT STA. 16+09.0 (DK. 40292)
(Light at Sta. 85+500 to be set 9'-0" back of curb.
See Section on Sheet No. 6.)
Note: Const. 100' Transition from 69'-0"
Curb to Curb to 53'-2" Curb to Curb
between Sta. 84+75 and Sta. 85+75
and Sta. 106+296 and Sta. 107+296



USE THIS SECTION
FROM STA. 101+32.0 TO 106+29.6 (DK. 3240.216)
BRIDGE TO BE CONSTRUCTED FROM
STA. 86+68.0 TO STA. 101+32.0 (DK. 3240.216)

NOTE:
For additional details of lighting
see Sheet No. 6.

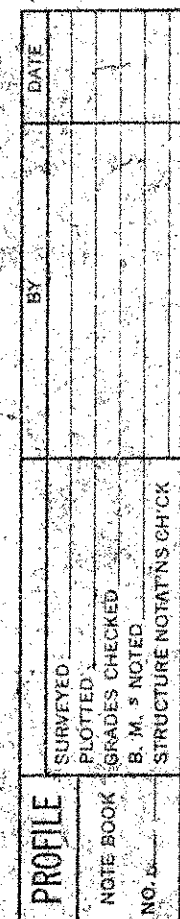


THIS SHEET INCLUDED
TO SHOW
LOCATION OF LIGHTS
ONLY

Lights plotted by: E.A.S.-2/52
Checked by: R.W.H.-2/52

Approved

S. M. Roman
State Highway Eng. 1/20/52

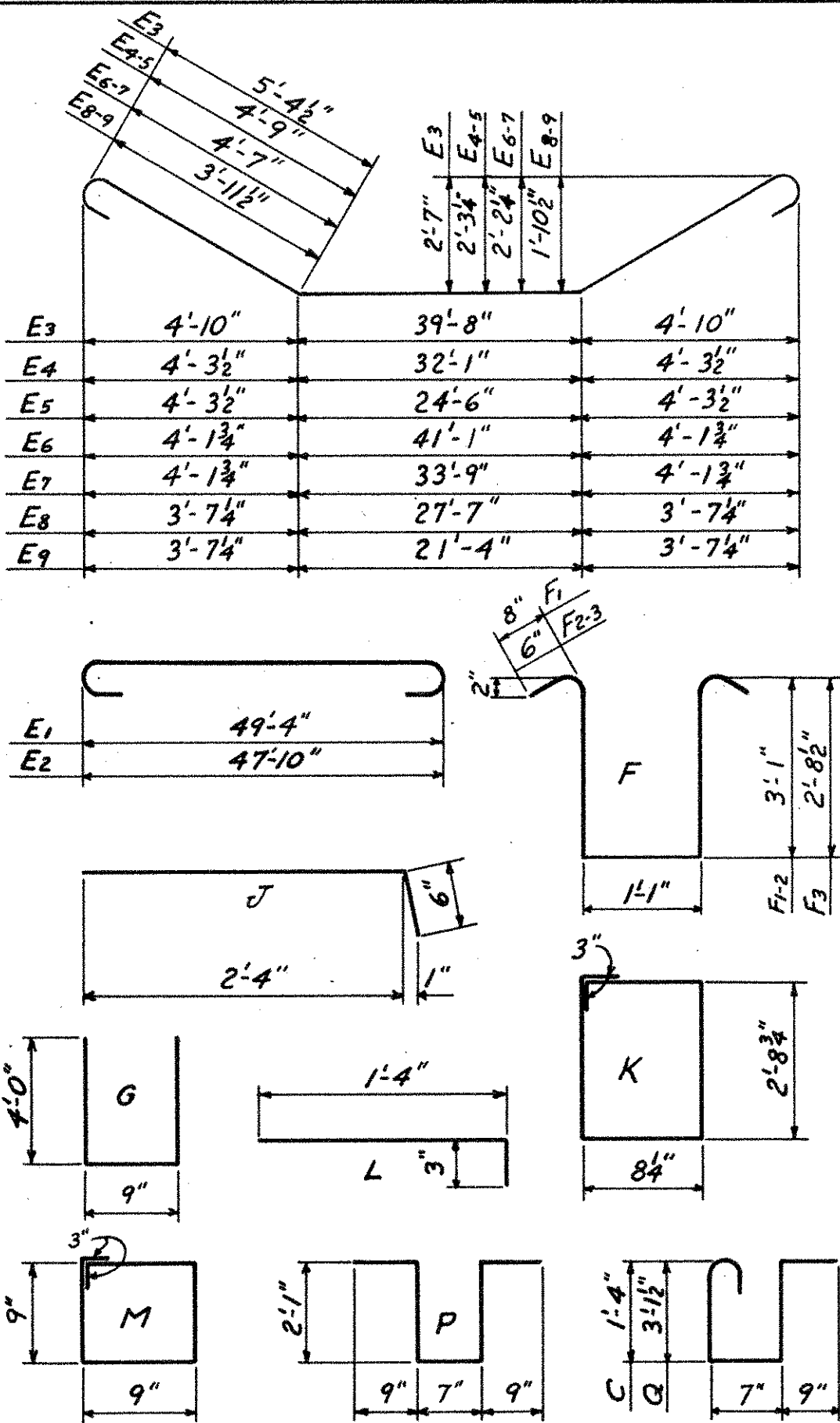


Rail No.	Station	Top of Rail Elev. on ϵ
5	10+10.51	186.55
6	10+15.28	186.55
7	10+26.34	186.71
8	10+31.09	186.71
10	10+41.14	186.83
12	10+45.83	186.89



FED. RD. DIV. NO.	STATE	COUNTY	S.C. Doc. No.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	LEXINGTON RICHLAND	3240.216	21	21E	21

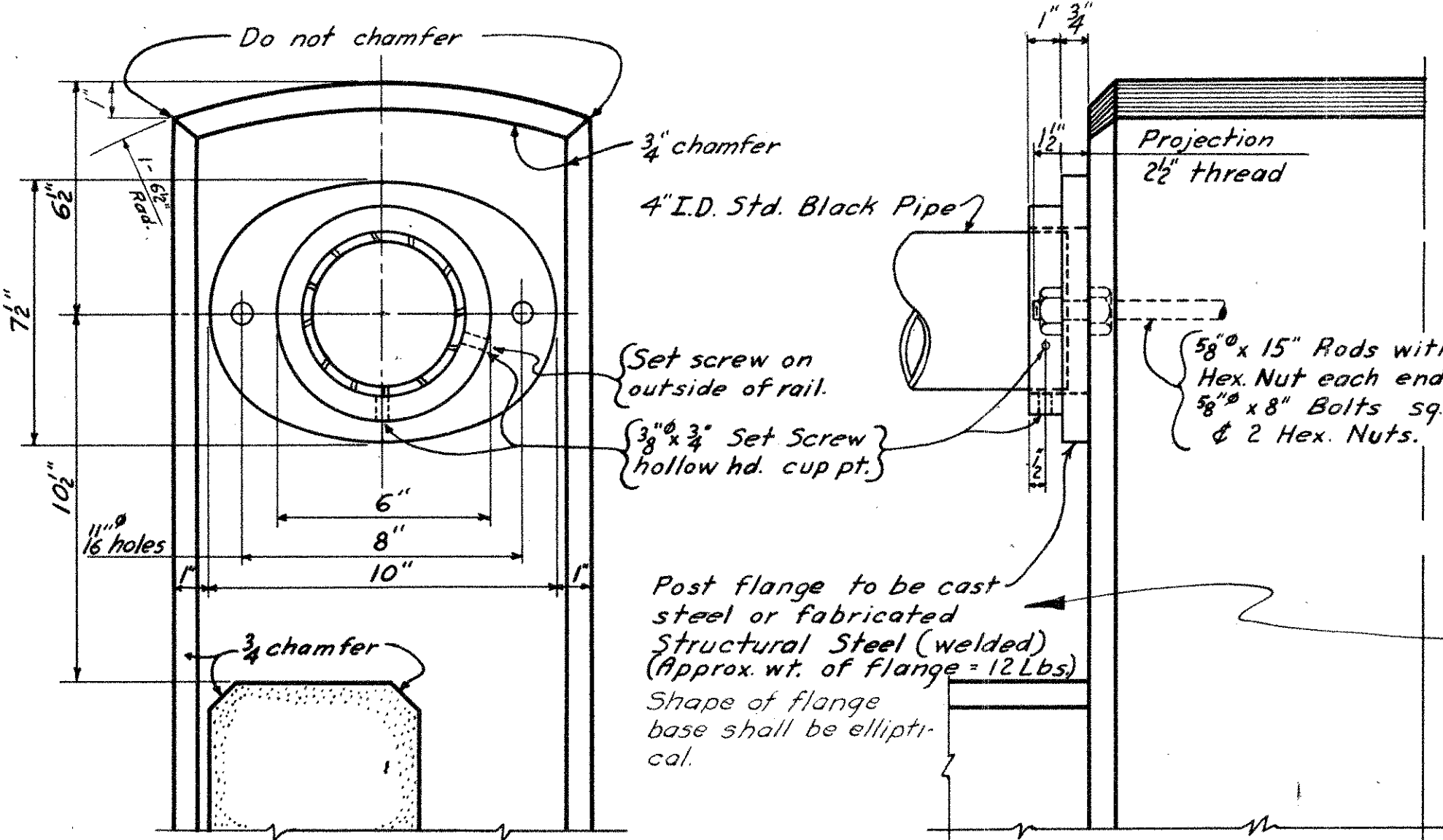
REINFORCING STEEL SCHEDULE									
STEEL TABLE					BENDING DETAILS				
MARK	BAR NO.	SIZE	NO.	LENGTH	D				
A ₁	5	5/8"	174	172	30'-8"	S			
A ₂	5	5/8"	174	172	29'-2"	S			
B	4	5/8"	202	202	25'-4"	S			
C	4	5/8"	112	56	4'-6"	B			
D	8	1"	4	2	29'-6"	S			
D ₂	8	1"	4	2	27'-3"	S			
E ₁	11	1 1/4"	32	32	51'-4"	B			
E ₂	11	1 1/4"	12	12	49'-10"	B			
E ₃	11	1 1/4"	12	12	52'-5"	B			
E ₄	11	1 1/4"	12	12	43'-7"	B			
E ₅	11	1 1/4"	12	12	36'-0"	B			
E ₆	11	1 1/4"	4	4	52'-3"	B			
E ₇	11	1 1/4"	4	4	44'-11"	B			
E ₈	9	1"	4	4	37'-6"	B			
E ₉	9	1"	4	4	31'-3"	B			
F ₁	5	5/8"	144	144	8'-7"	B			
F ₂	4	5/8"	78	78	8'-3"	B			
F ₃	4	5/8"	62	62	7'-6"	B			
G	6	3/4"	32	32	8'-9"	B			
H ₁	5	5/8"	100	100	0'-10"	S			
I ₁	4	5/8"	10	10	29'-0"	S			
I ₂	4	5/8"	10	10	20'-3"	S			
J	4	5/8"	68	68	2'-10"	B			
K	4	5/8"	24	20	7'-4"	B			
L	5	5/8"	70	70	1'-7"	B			
M	2	1/2"	24	20	3'-6"	B			
N	4	5/8"	20	20	8'-4"	S			
O ₁	6	3/4"	4	4	29'-0"	S			
O ₂	6	3/4"	4	4	27'-3"	S			
P	4	5/8"	84	84	6'-3"	B			
Q	4	5/8"	-	44	8'-1"	B			
R ₁	4	5/8"	-	8	29'-1"	S			
R ₂	4	5/8"	-	8	27'-10"	S			
S ₁	4	5/8"	4	4	27'-1"	S			
S ₂	4	5/8"	4	4	25'-10"	S			



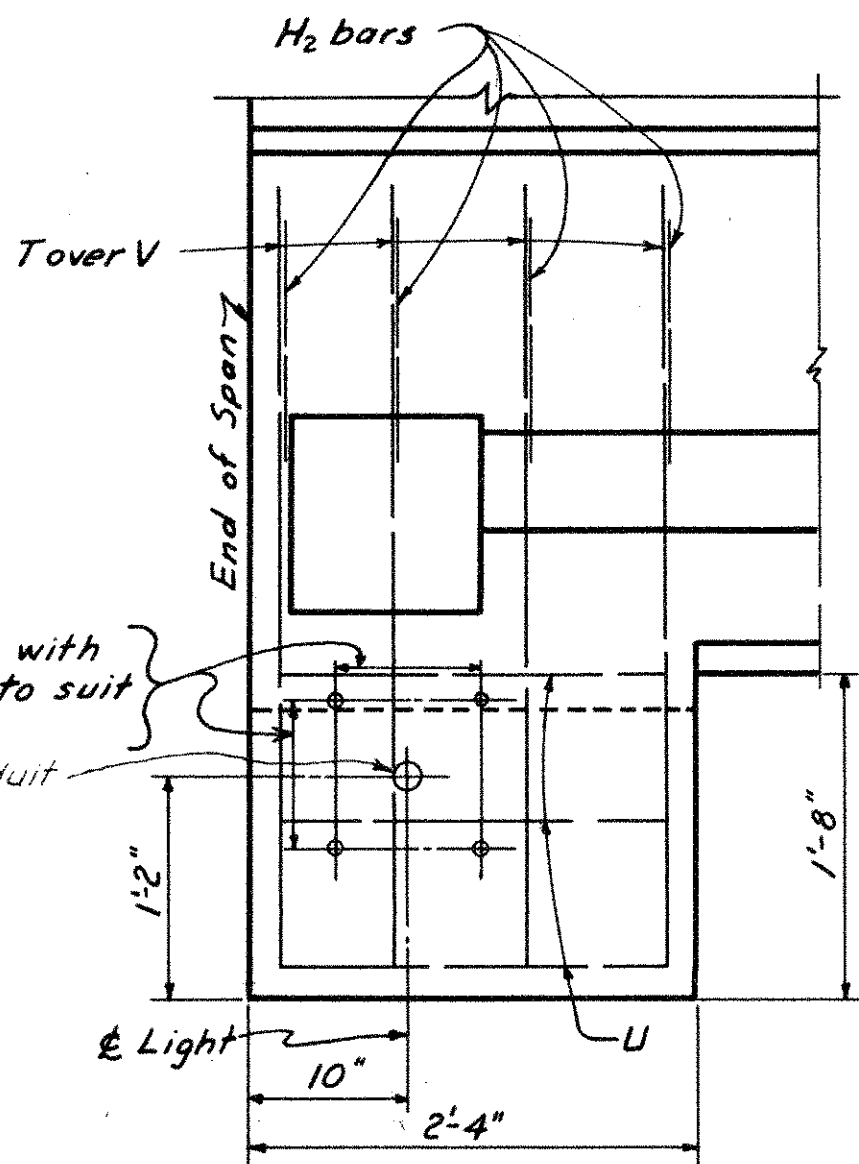
HOOK DETAILS	
1/2" bars	add 6" per hook
3/4" bars	add 8" per hook
1" & larger	add 12" per hook

Anchor Bolts to be furnished with Lighting Equipment and set to suit Manufacturers standards.

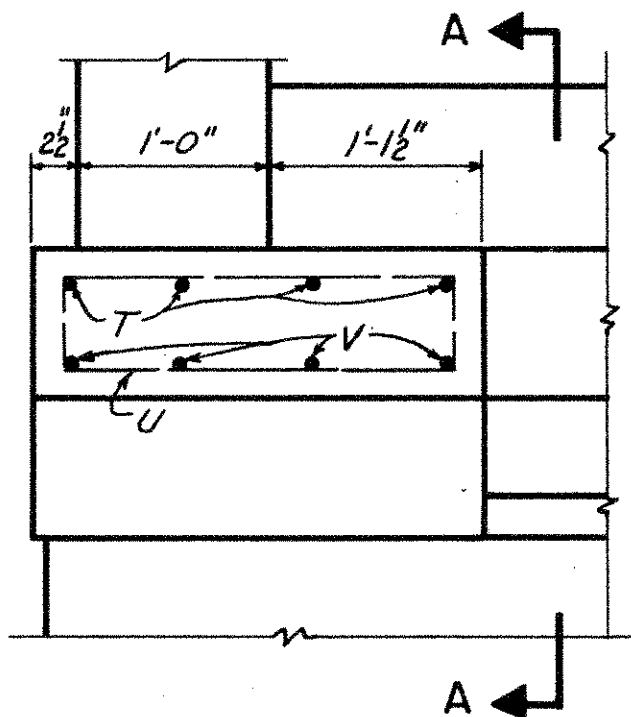
1/2" Conduit



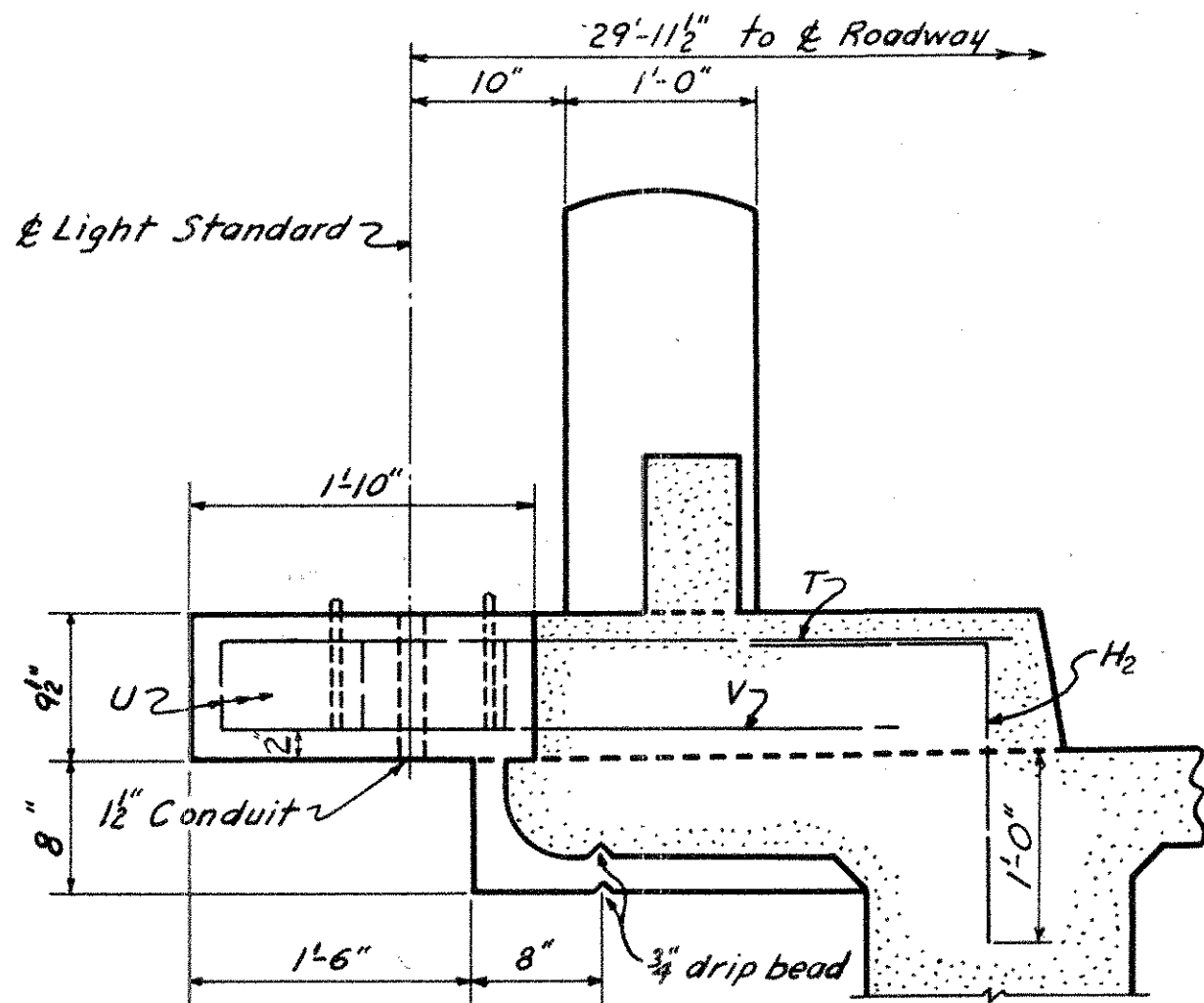
DETAILS OF PIPE RAIL CONNECTION



PLAN SHOWING LIGHT BRACKET



SIDE ELEVATION



SECTION A-A

BREAKDOWN OF CONCRETE QUANTITIES		
ITEM	END SPAN	INT SPAN
Beams, Slab & Diaphragms	12.59 CY	125.07 CY
Safety Curb	72 CY	7.85 CY
Posts	82 CY	99 CY
Rail	1.33 CY	1.35 CY

ESTIMATE OF QUANTITIES		
ITEM	END SPAN	INT SPAN
Class "A" Concrete	135.31 CY	132.92 CY
Reinforcing Steel	42,647 Lbs.	42,724 Lbs.
Bridge Handrail	968 LF	100 LF

Does not include 8 Cu. Yds. for Concrete in Posts and Rails. The cost of this concrete to be included in the Bid Price for Bridge Handrail.

2.15 End Span & 2.34 Int. Span

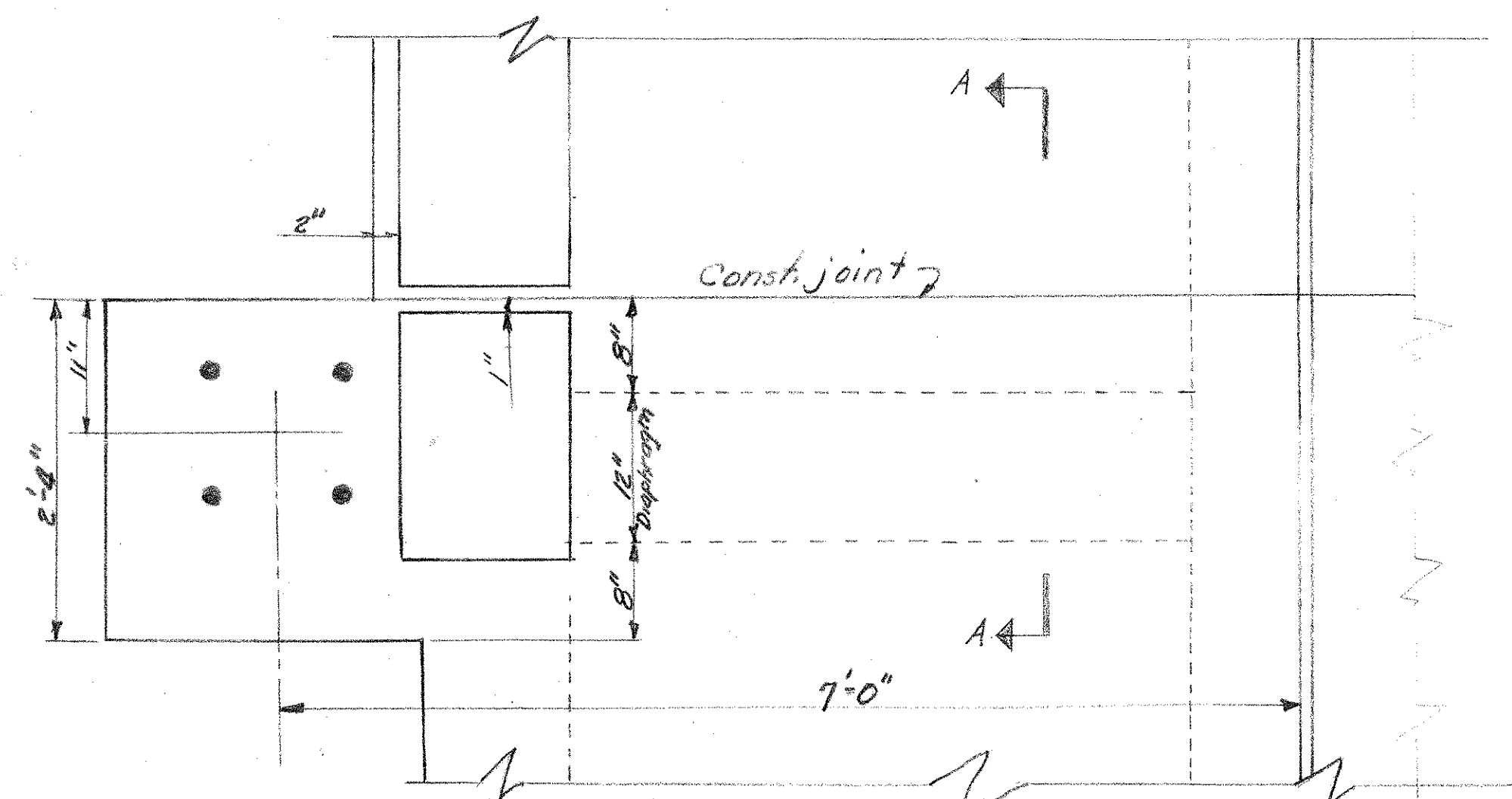
NOTES:
Design Data: A.A.S.H.O. Specifications 1949 (with Dec. 1950 Revisions). H 20-316-44 Loading; $f_s = 20,000 \text{ psi}$; $f_c = 12,000 \text{ psi}$; $n = 10$; $v = 225$; $u = 300 \text{ psi}$.
All concrete shall be Class "A". All exposed concrete edges shall be chamfered 3/4" except as noted.
Structural grade reinforcing steel not permitted. No construction joints other than those shown, will be permitted.
Beams, Slab and diaphragms shall be poured monolithic.
See Sheet No. 3 for location of Light Brackets.
No Safety Curb or Handrail Concrete shall be cast until after beam falsework has been struck.

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA

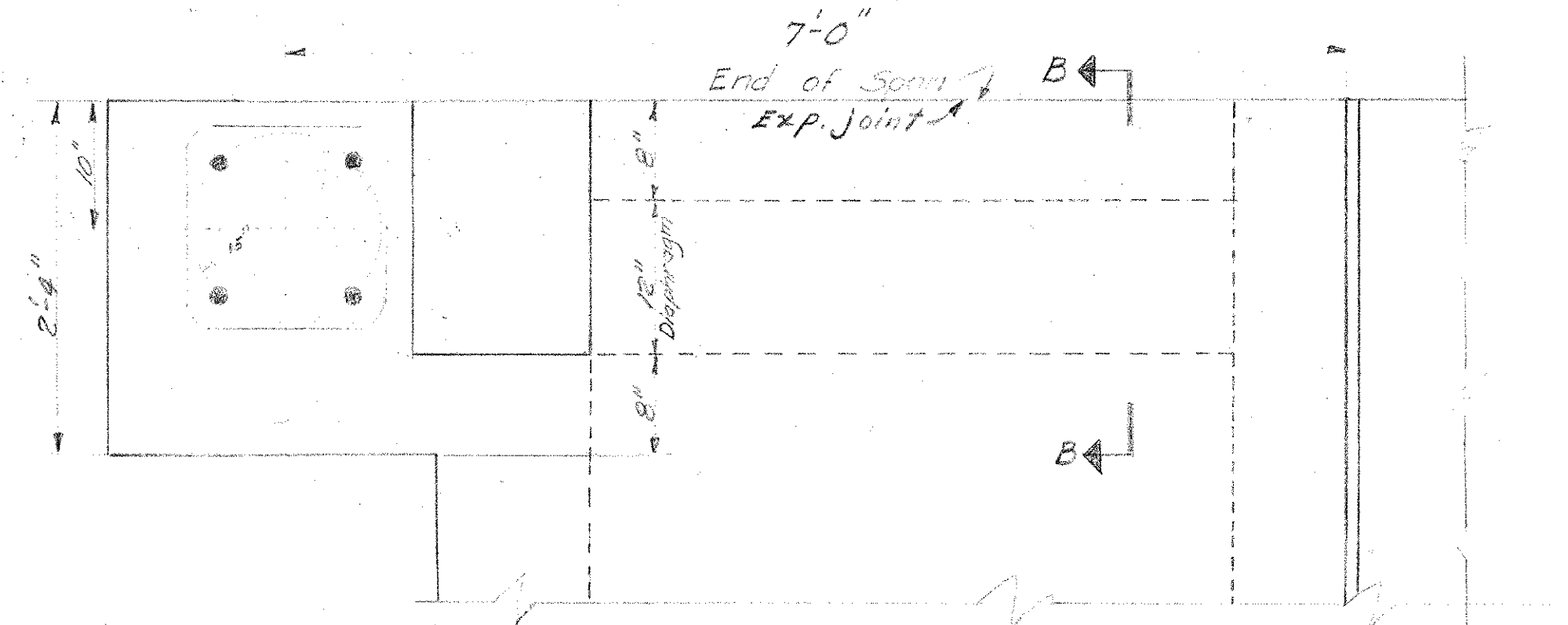
DETAILS OF 50' SPAN
FOR BRIDGE OVER
A.C.L. R.R. AND SOU. R.WY.
AT BLOSSOM STREET

DOCKET NO. 40363
COUNTY RICHLAND
ROUTE NO. 21
DATE OCT. 1951

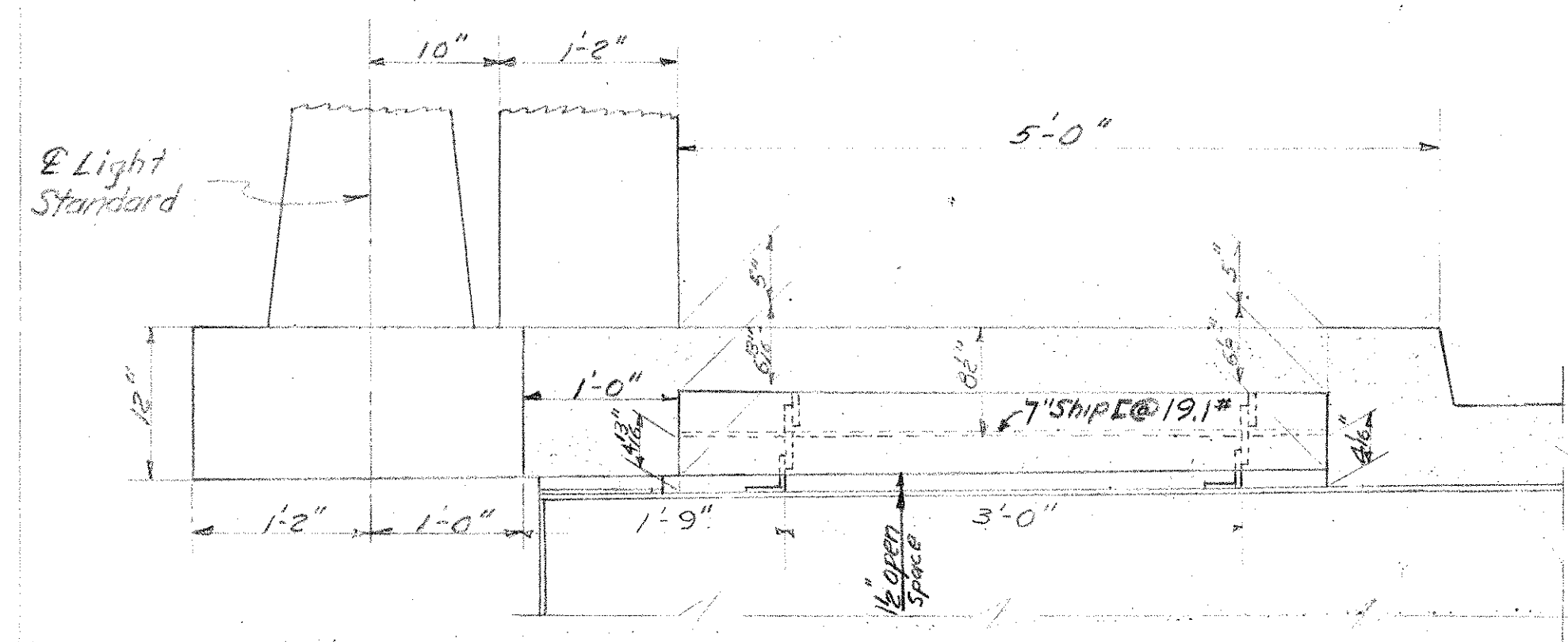
Rev.			
Quant.	W.F.L.	D.F.D.	11/51
Tr.	C.H.E.	F.M.J.	10/51
Dr.	W.F.L.		10/51
Des.	W.F.L.		10/51
BY	CHND	Date	



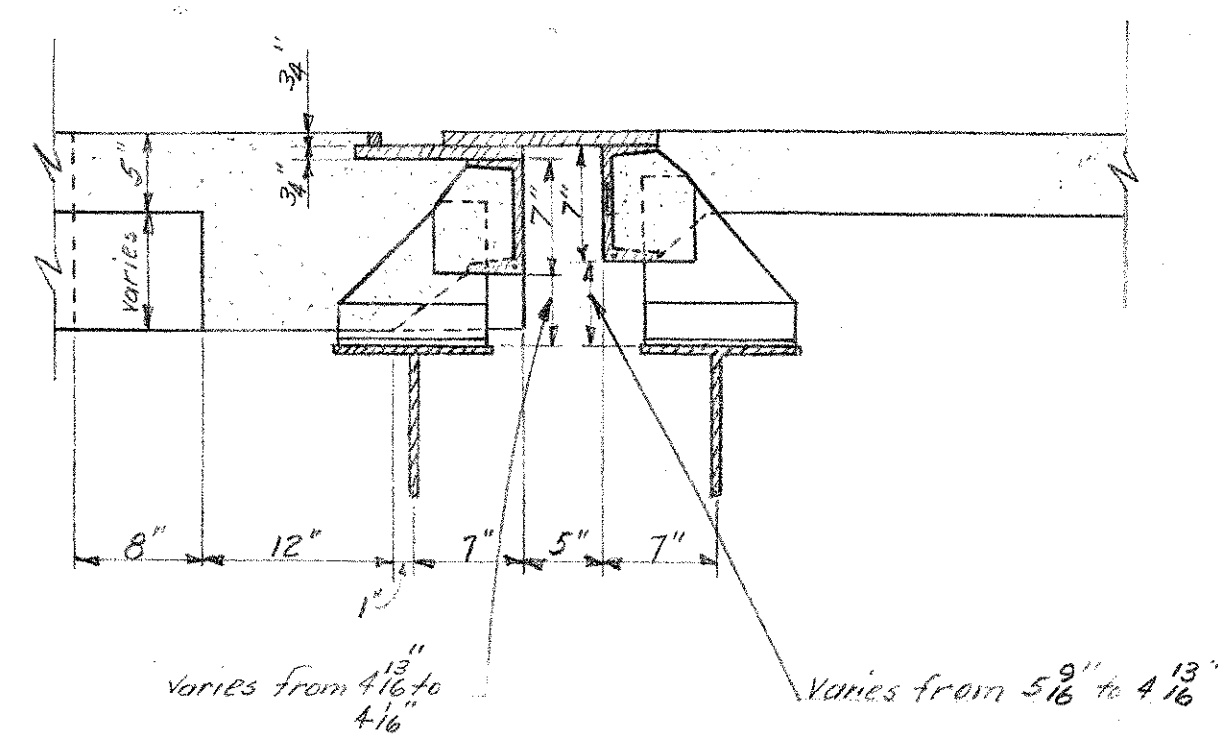
PLAN VIEW AT INT. SUPPORT (RIVER BRIDGE)



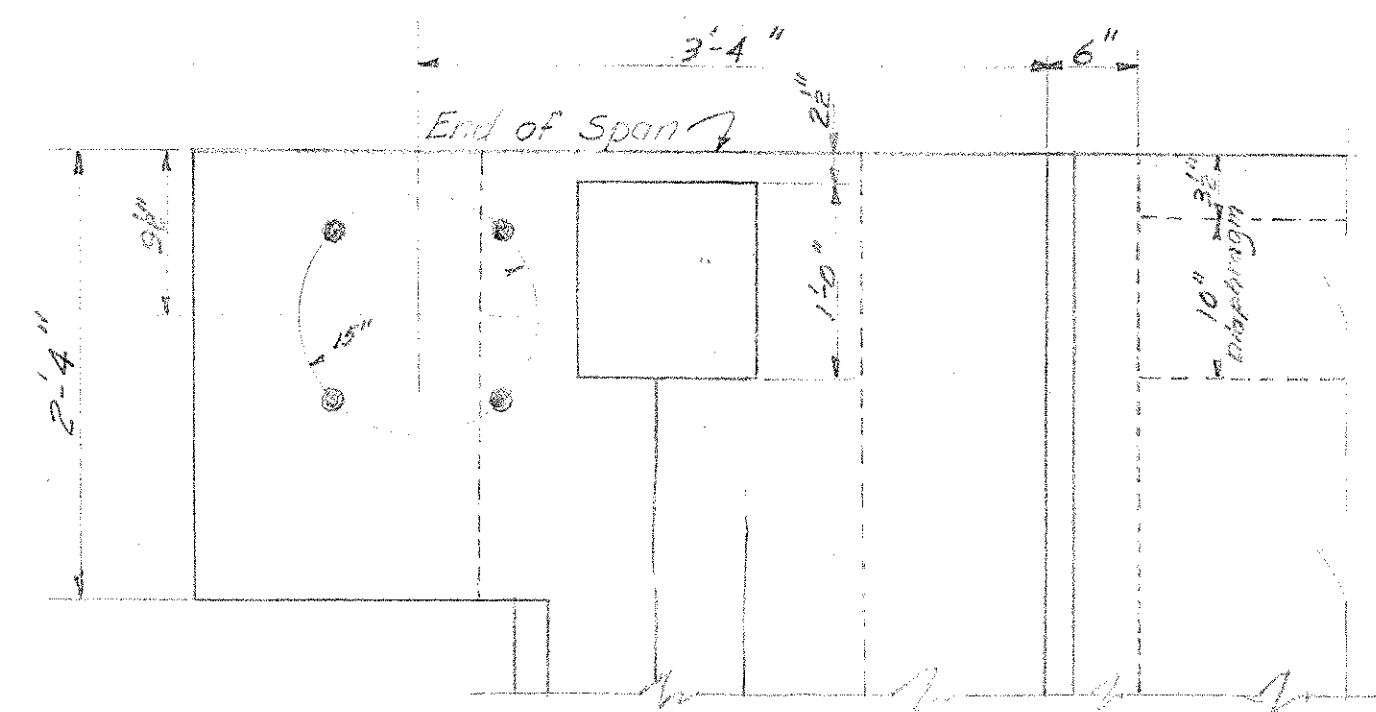
PLAN VIEW OF END OF SPAN
(RIVER BRIDGE)



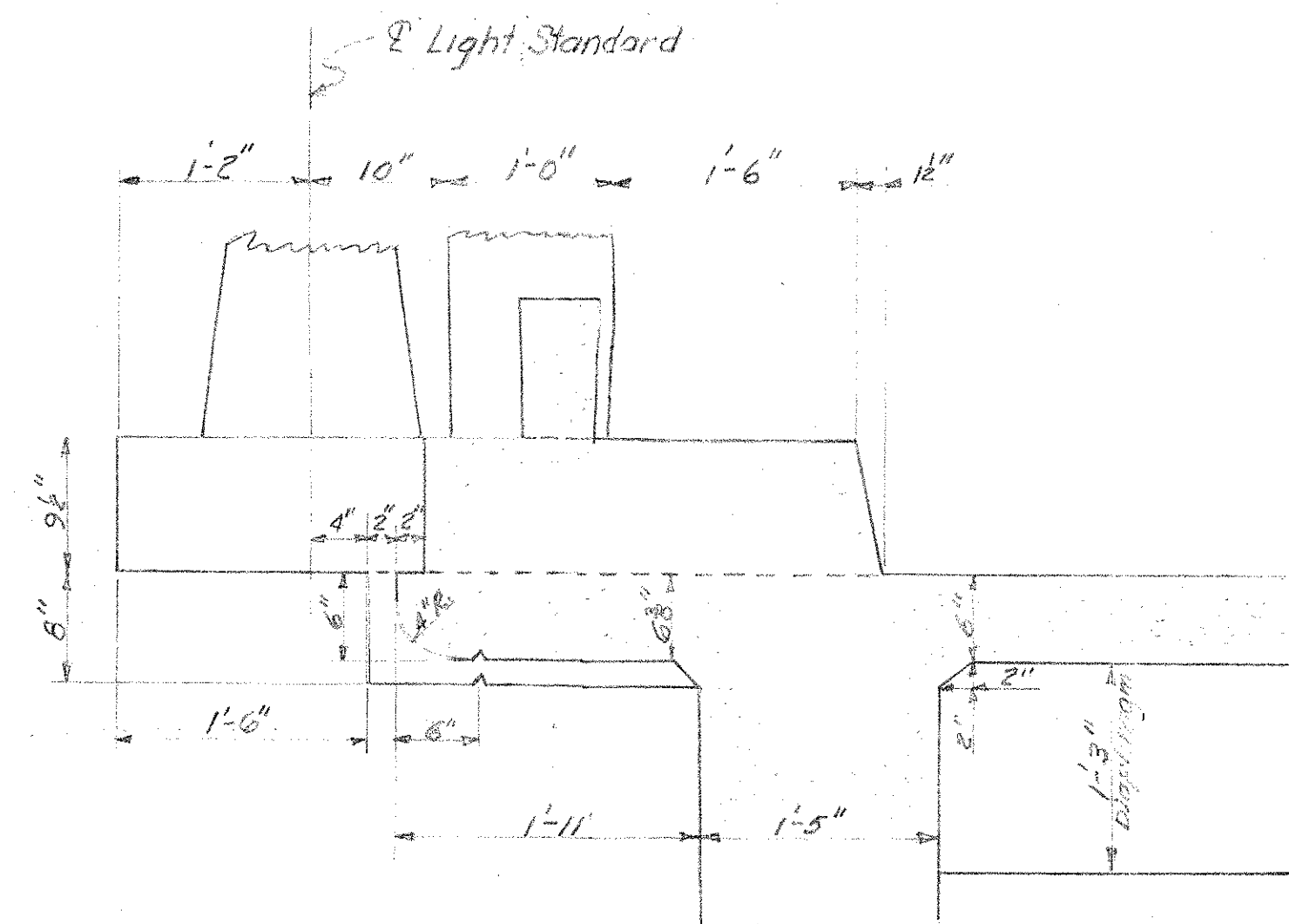
SECTION THRU CURB AT LIGHT POST BRACKET
(RIVER BRIDGE)



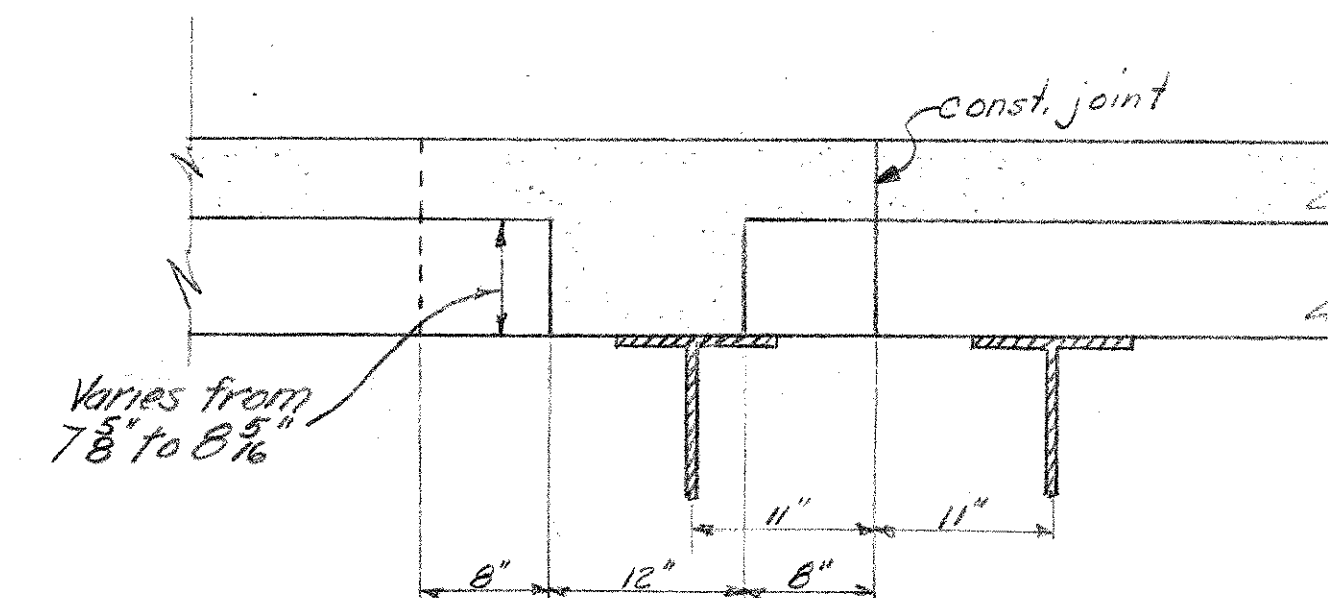
SECTION B-B
(AT PIER D OR I)



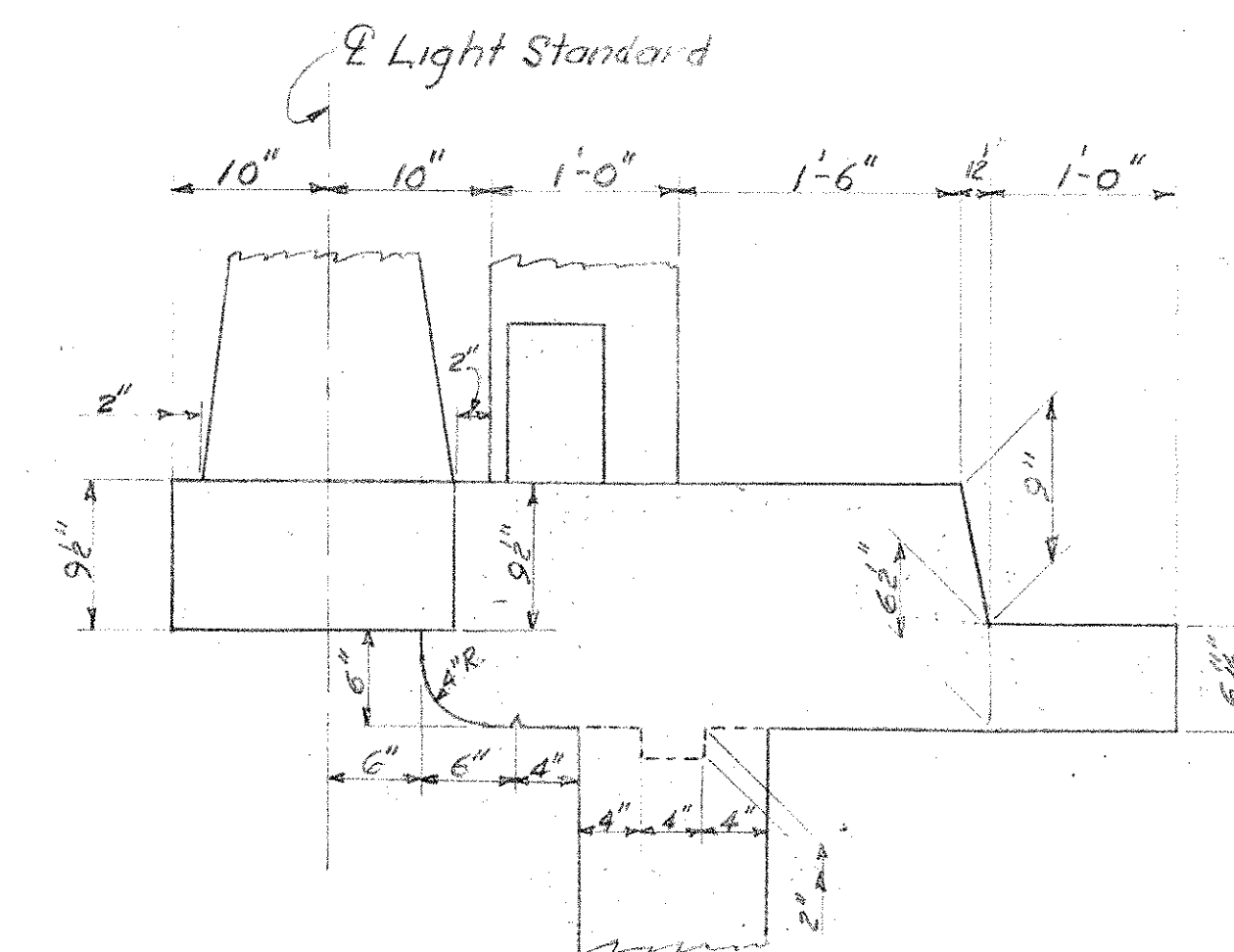
PLAN VIEW OF END OF SPAN
(50' SPAN)
A.C.L. & SOU. R.R. OVERHEAD BRIDGE



SECTION THRU CURB AT LIGHT POST BRACKET
(50' SPAN)
A.C.L. & SOU. R.R. OVERHEAD BRIDGE



SECTION A-A



SECTION THRU CURB AT LIGHT POST BRACKET
(RETAINING WALL)

Rev.	By	Date
1	CKH	3/50
2	CKH	3/50
3	CKH	3/50
4	CKH	3/50
5	CKH	3/50

S.C. STATE HIGHWAY DEPARTMENT
COLUMBIA

LIGHT BRACKET DETAILS FOR
PROPOSED LOCATION OF LIGHT
CONDUITS FOR CONGAREE RIVER
BRIDGE & A.C.L. & SOU. R.R.
OVERHEAD BRIDGE ON BLOSSOM ST.
S.C. Docket No. 3343. 216.4 R.T. U.S. 21