WIDENING

BARTON SPRINGS ROAD BRIDGE

AT

BARTON CREEK

CITY OF AUSTIN, TEXAS

PLANS PREPARED

BY

CITY ENGINEERING DEPARTMENT

1945

APPROVED: DATE: 9/24/45

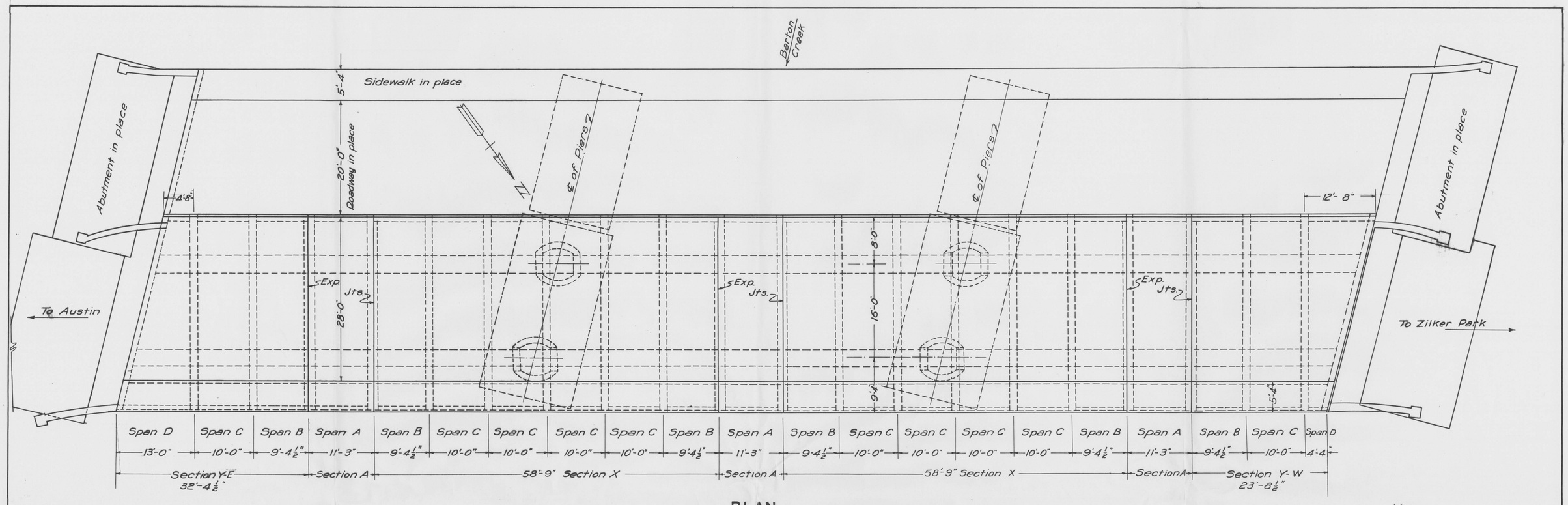
BY: J. Michael
CITY ENGINEER

APPROVED: DATE:

BY: Lester Morgan
CITY MANAGER

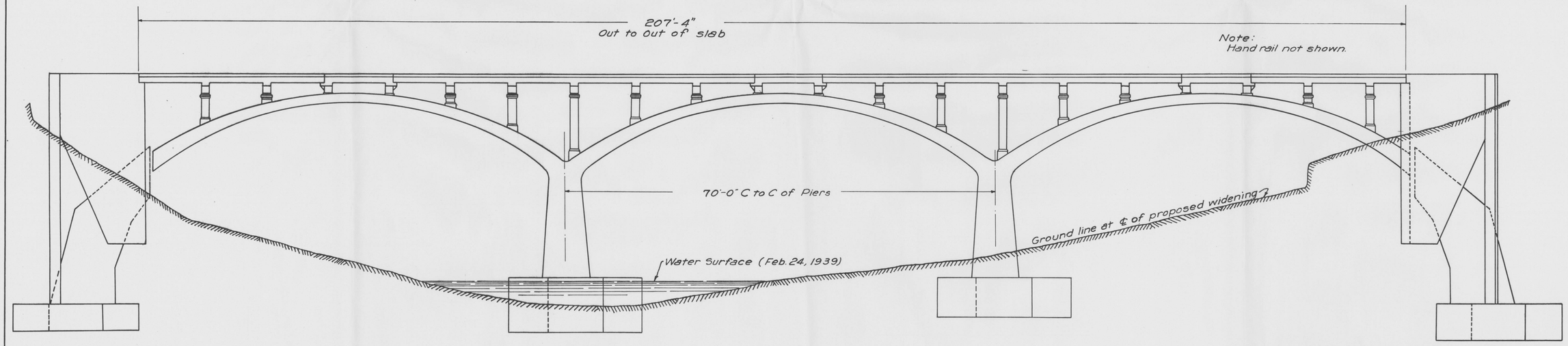
6B-102

6-B-102



PLAN

Note:
Floor drains @17'-6" ctrs.



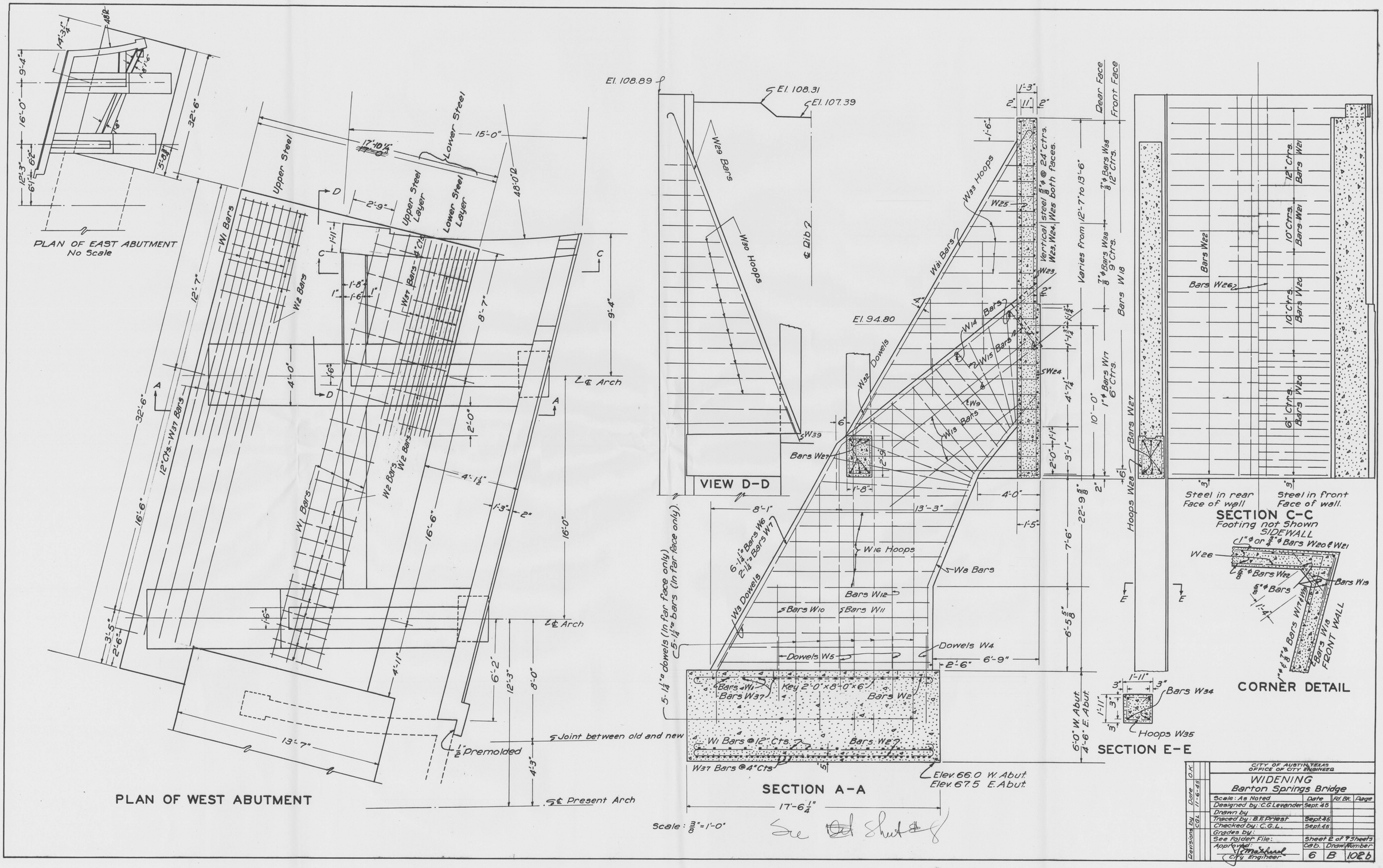
ELEVATION
Showing North Rib Only

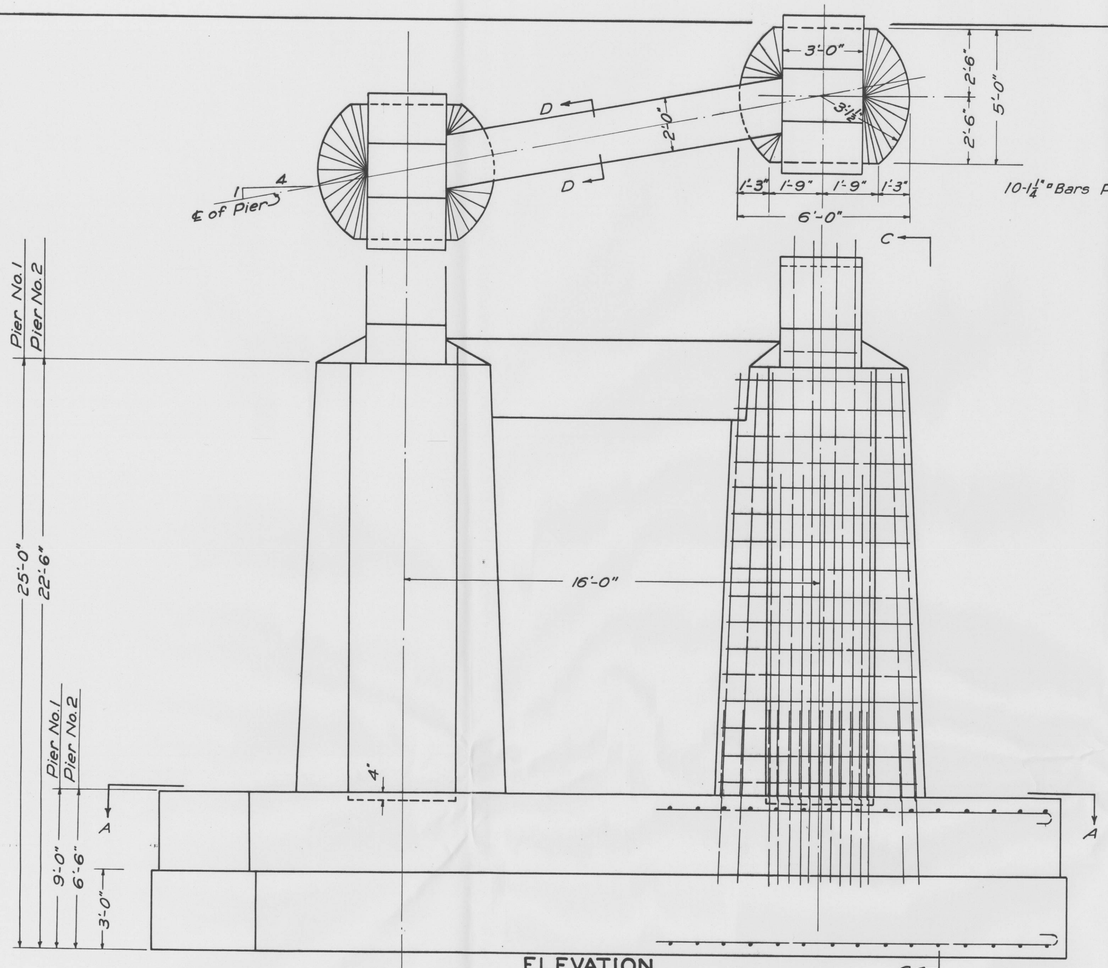
Revisions by	Date	O.K.
C.G.L.	11-6-45	

CITY OF AUSTIN, TEXAS
OFFICE OF CITY ENGINEER

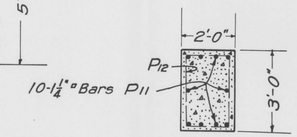
WIDENING
Barton Creek Bridge

Scale: 1/8" = 1'-0"	Date	Fd.Bk.	Page
Designed by: C.G. Lewander	Sept. '45		
Drawn by: W.W. Huff, Jr.	Sept. '45		
Traced by: B.F. Priest	Sept. '45		
Checked by: C.G.L.	Sept. '45		
Grades by:			
See Folder File:	Sheet 1 of 7 Sheets		
Approved: [signature] City Engineer	Cab. 6	Draw. B	Number 102a

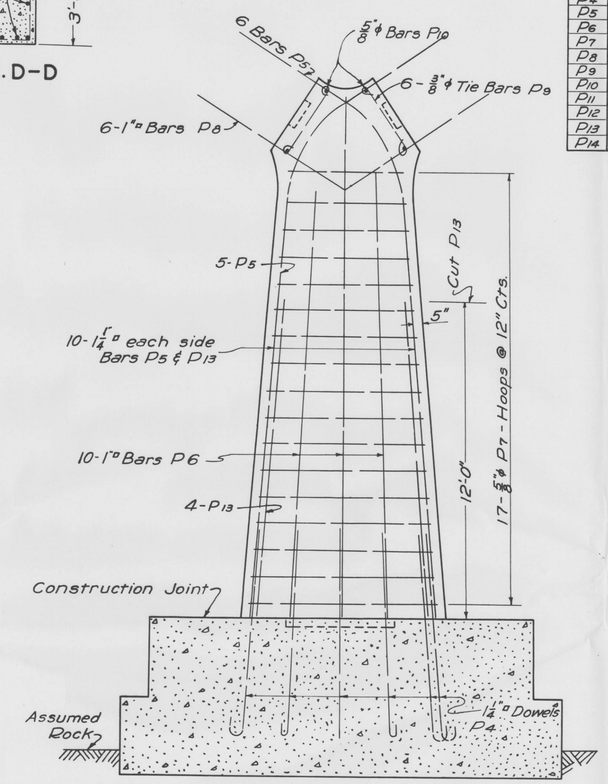

PLAN OF EAST ABUTMENT
No Scale
PLAN OF WEST ABUTMENT
Upper Steel
Lower Steel
Upper Steel Layer
Lower Steel Layer
W1 Bars
W2 Bars
W37 Bars
12" Cts.-W37 Bars
℄ Arch
℄ Present Arch
Joint between old and new
1/2" Premolded
El. 108.89
El. 108.31
El. 107.39
W29 Bars
W30 Hoops
℄ Dib
VIEW D-D
El. 94.80
W33 Hoops
W31 Bars
W32 Dowels
W14 Bars
W15 Bars
W13 Bars
W16 Hoops
W8 Bars
W3 Dowels
Bars W27
Bars W26
Bars W22
Bars W10
Bars W11
Bars W12
Dowels W4
Dowels W5
Key 2'-0"x8'-0"x6"
W1 Bars @ 12" Cts.
W37 Bars @ 4" Cts.
Elev. 66.0 W. Abut.
Elev. 67.5 E. Abut.
SECTION A-A
Scale: 3/8"=1'-0"
Dear Face
Front Face
Varies from 12'-7" to 13'-6"
Bars W18
Bars W17
Hoops W28
Bars W34
Hoops W35
SECTION E-E
Steel in rear Face of wall
Steel in front Face of wall.
SECTION C-C
Footing not Shown
SIDEWALL
CORNER DETAIL
FRONT WALL
CITY OF AUSTIN, TEXAS
OFFICE OF CITY ENGINEER
WIDENING
Barton Springs Bridge
Scale: As Noted
Designed by: C.G. Levander
Drawn by
Traced by: B.F. Priest
Checked by: C.G.L.
Grades by:
See Folder File:
Approved:
City Engineer
Date: Sept. 45
Sheet 2 of 7 Sheets
Cab. 6
Draw. Number B
102b



ELEVATION



SEC. D-D

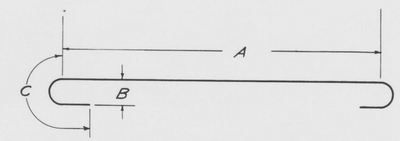


SECTION C-C

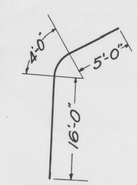
See Sheet # 8

BILL OF STEEL FOR ONE PIER							
Mk.	LOCATION	No.	Size	Spac	Shape	Length	Wt.
P1	Footing, Transverse	38	¾"φ	10"		17'-0"	969
P2	" Long.	16	1"□	12"		33'-9"	1782
P3	" Transverse	31	¾"φ	12"		15'-0"	698
P4	" Dowels	52	1¼"□	—	See Detail	13'-6"	3728
P5	Shaft	24	1¼"□	6"	See Detail	25'-0"	3319
P6	"	12	1¼"□	24"	Straight	15'-9"	1004
P7	" Hoops	34	⅜"φ	12"	See Detail	Av. 26'-6	940
P8	" Rib Dowels	12	1"□		" "	13'-0"	530
P9	" Tie Bars	12	⅜"φ	6"	" "	3'-10"	17
P10	" Tie Bar Anchor	4	⅝"φ	—	Straight	2'-9"	11
P11	" Strut Beam	10	1¼"□	—	"	19'-0"	1009
P12	" Strut Beam Hoops	13	½"□	12"	See Detail	10'-0"	111
P13	"	16	1¼"□		Straight	12'-0"	1020
P14	Footing, Long.	14	¾"φ	12"	See detail	33'-0"	688

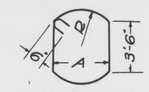
Total Wt. 15,826#



Mk.	Size	A	B	C	Length
P1	¾"φ	15'-0"	4½"	1'-0"	17'-0"
P2	1"□	31'-0"	6"	1'-4½"	33'-9"
P3	¾"φ	13'-0"	4½"	1'-0"	15'-0"
P14	¾"φ	31'-0"	4½"	1'-0"	33'-0"

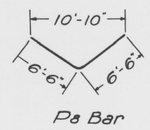


P5 Bar

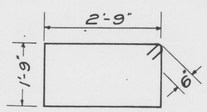


P7 Hoops

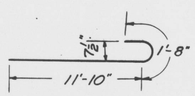
"A" Varies from 4'-2" to 6'-10".
"D" Varies from 2'-9" to 4'-5".



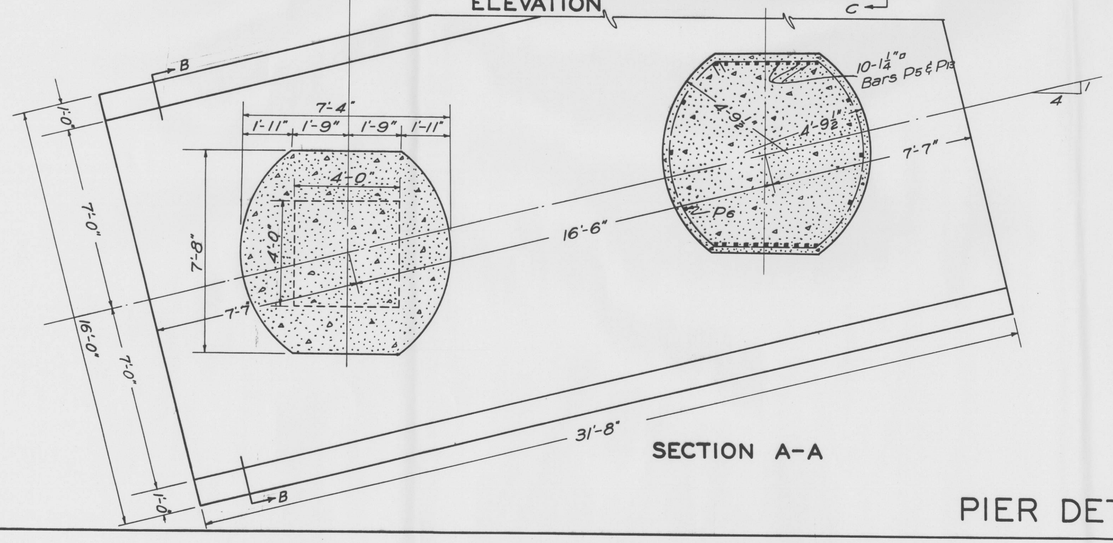
P8 Bar



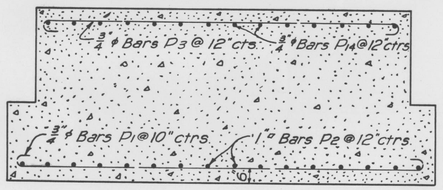
P12 Bars



P4 Bars



SECTION A-A



SECTION B-B

PIER DETAILS

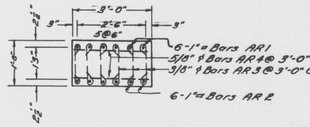
CITY OF AUSTIN, TEXAS
OFFICE OF CITY ENGINEER

WIDENING
Barton Creek Bridge

Scale: ⅜" = 1'-0"	Date	Fd. Bk.	Page	
Designed By: C.G. Levander	Sept. '45			
Drawn by:				
Traced by: B.F. Priest	Sept. '45			
Checked by: C.G.L.	Sept. '45			
Grades by:				
See Folder File:	Sheet 3 of 7 Sheets			
Approved: City Engineer	Cab. 6	Draw. B	Number 102c	

Revisions | By | Date | O.K.

File 1456 shows design for H-15 loading. Dup # 22160



SECTION B-B

GENERAL NOTES:

Numbers and dotted lines on arch ring indicate the sequence of placing the concrete and the limit of the section. Corresponding sections on the ring shall be placed simultaneously. The centering shall be adjusted by means of wedges and jacks not earlier than seven days after the last placement of concrete in the larger sections. The small sections 3 shall then be placed. At least 24 hours shall elapse between any two adjacent sections and 15 days between the last placement of concrete and the time centering is struck. Should the position of the ring after large sections are placed be within ½" of the true position, no adjustment will be necessary and the sections 3 may be placed as soon as the bulkheads are removed.

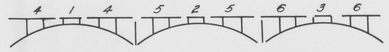
Surfaces of concrete shall be finished in accordance with the specifications. The four sides of the arch ring shall be finished the same as other exposed portions of the structure.

Corners shall be chamfered and finished as designated by the Engineer. Chamfer strips where required shall be cut in short sections to prevent buckling.

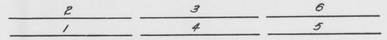
Slabs shall be constructed on the same camber as that for the existing structure.

Arch rings shall be placed in the order shown. This sequence may be varied.

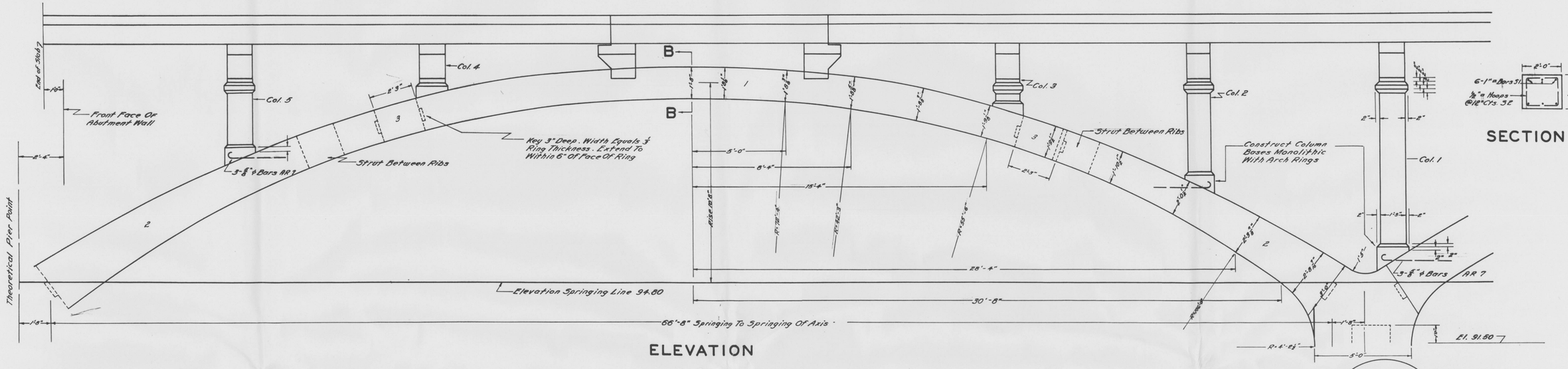
No deck sections shall be placed until all the rings are in place. The deck sections shall be placed according to the sequence shown by numbers. Deck sections with same number shall be placed simultaneously, and the concrete shall be deposited in each section at the same rate.



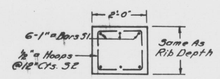
SKETCH SHOWING ORDER OF PLACING DECK SECTIONS



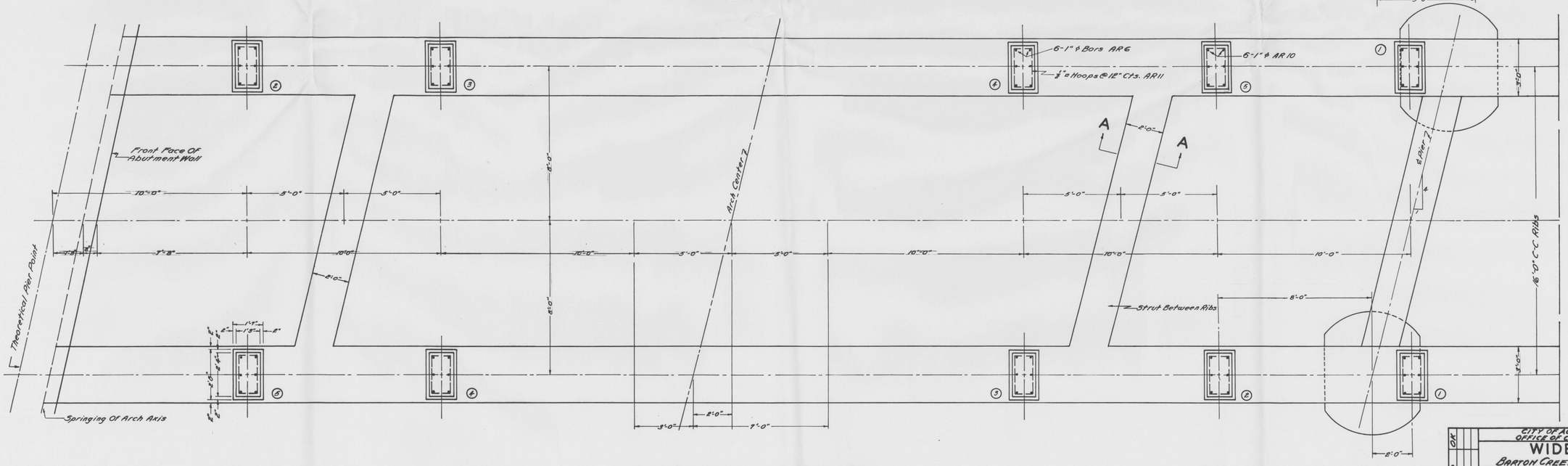
PLAN OF ARCH RINGS SHOWING ORDER OF PLACING
Arch rib depths as shown on ℄ of ring are spaced 3'-4" horizontally beginning 1'-8" from ℄ of span.



ELEVATION



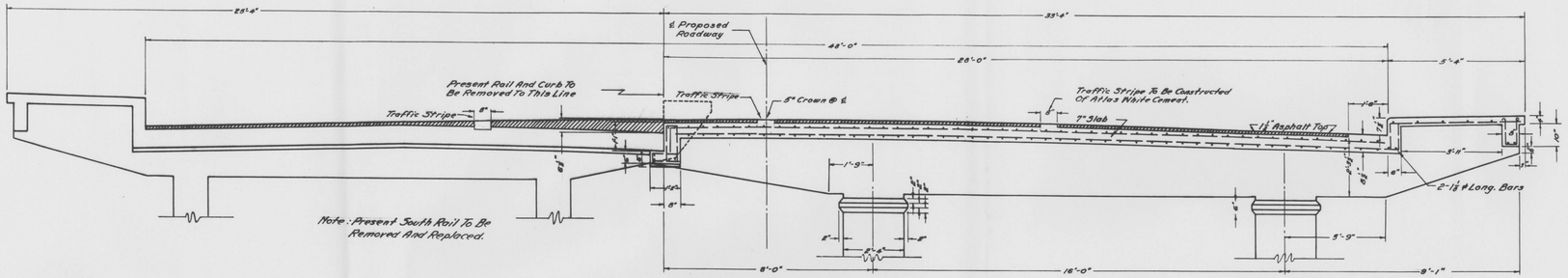
SECTION A-A



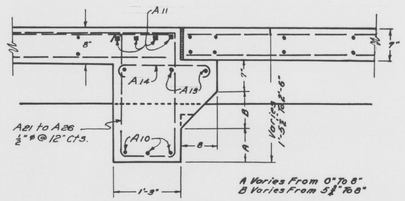
LONGITUDINAL SECTION

Revised By	Date	OK	CITY OF AUSTIN, TEXAS OFFICE OF CITY ENGINEER	
			WIDENING	
			BARTON CREEK BRIDGE	
			Scale: 1/8"=1'-0"	Date
			Designed by: C. G. Levonoder	Sept. 1945
			Drawn by: W. W. Huff Jr.	Sept. 1945
			Inked by: W. W. Huff Jr.	Sept. 1945
			Checked by: C. G. Levonoder	Sept. 1945
			Grades by:	
			See Folder File:	Sheet # of # Sheets
			Approved by: J. E. Lewis City Engineer	Cab. 6 / Drawer B / Number 102d

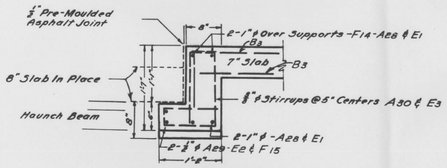
Fed. Aid. Page



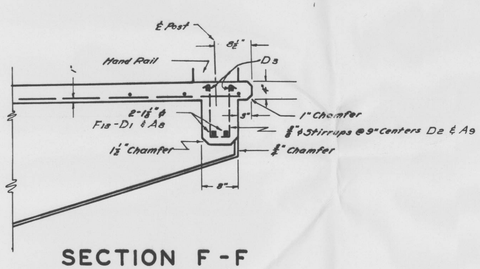
SECTION C-C
SCALE: 3-8" = 1'-0"



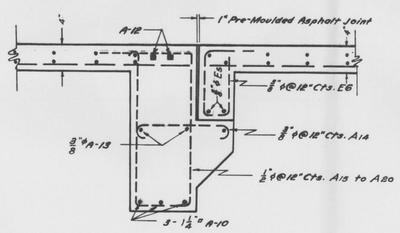
SECTION H-H
SCALE: 3-4" = 1'-0"



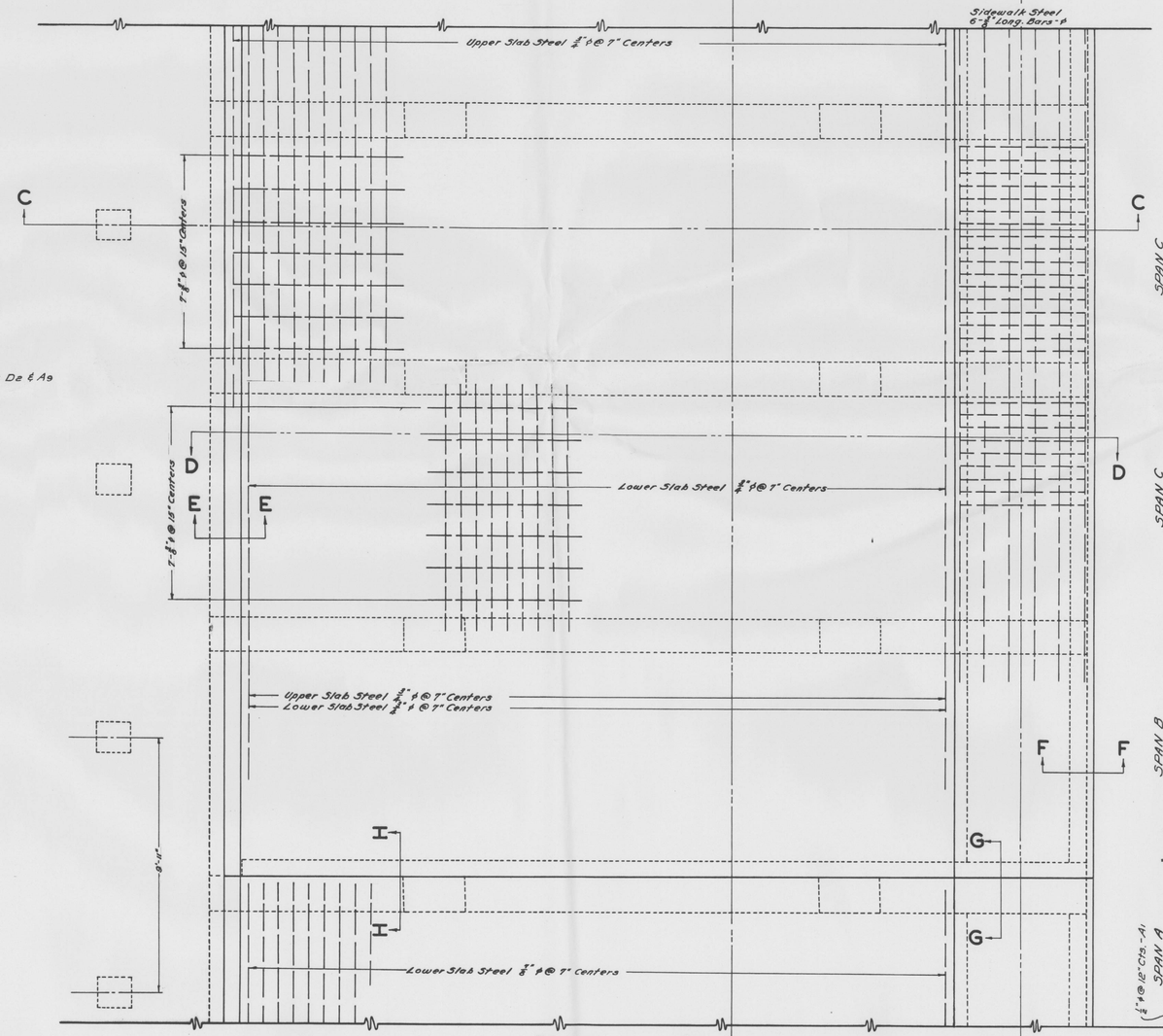
SECTION E-E
SCALE: 3-4" = 1'-0"



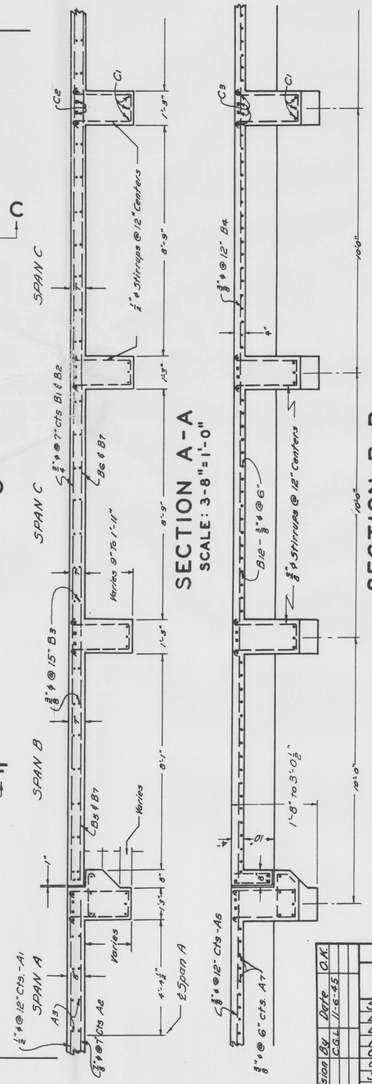
SECTION F-F
SCALE: 3-4" = 1'-0"



SECTION G-G
SCALE: 3-4" = 1'-0"

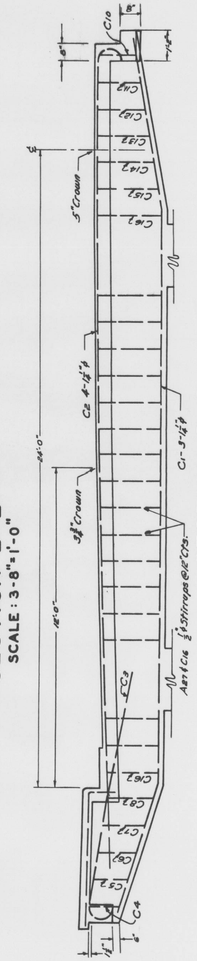


PLAN
SCALE: 3-8" = 1'-0"



SECTION A-A
SCALE: 3-8" = 1'-0"

SECTION B-B
SCALE: 3-8" = 1'-0"



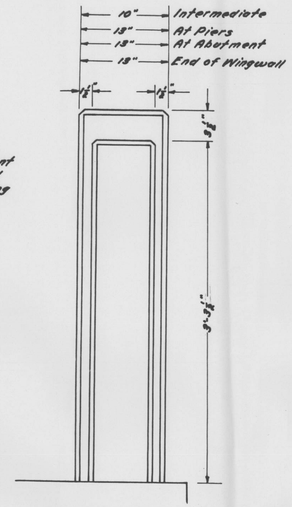
SECTION D-D
SCALE: 3-8" = 1'-0"

CITY OF AUSTIN, TEXAS OFFICE OF CITY ENGINEER			
WIDENING **BARTON CREEK BRIDGE**			
Scale: As Noted	Date	℄	Bk. Page
Designed By: C.G. Levander	Sept. 1949		
Drawn By: W.W. Huff Jr.	Sept. 1949		
Inked By: W.W. Huff Jr.	Sept. 1949		
Checked By: C.G. Levander	Sept. 1949		
Grades By:			
See Folder File:	Sheet 8 of 7 Sheets		
Approved: J. Marshall, City Engineer	Cab. 6	Draw. B	Number 102e

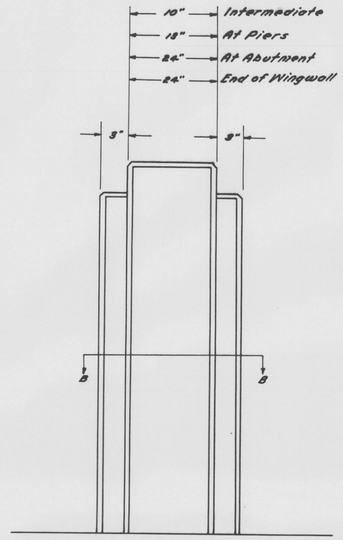
Revision By	Date	O.K.
C.G.L.	11-16-55	

Note:
Care must be taken to prevent damage to light conduit and vertical steel when removing posts in south rail.

Provide anchors for Light Standards in 12 posts



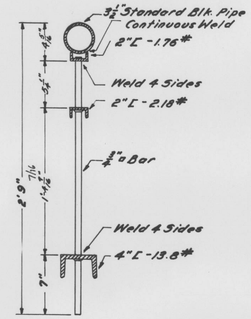
END ELEVATION



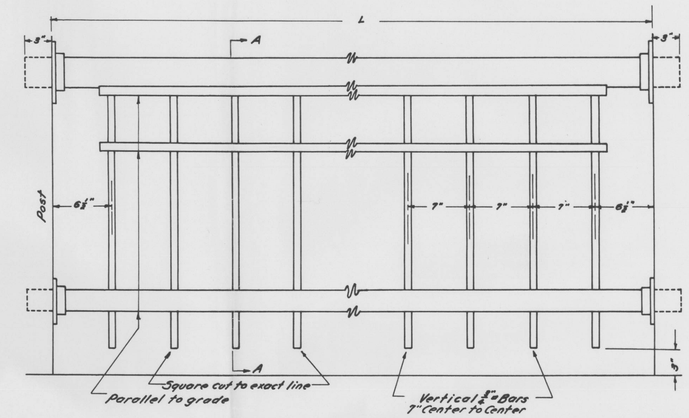
SIDE ELEVATION

GENERAL NOTES:
All corners shall be chamfered 3/8" and rubbed round.
All pipe shall be free of any manufacturers coating before shop paint is applied.
Steel rail shall be given one shop coat of red lead and oil, one field coat of red lead and oil, and two field coats of aluminum paint.
Posts shall receive rubbed finish.

Punch 13/16" ø holes for pickets. Fill open space with smooth on or equal.



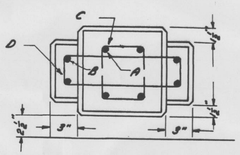
SECTION A-A



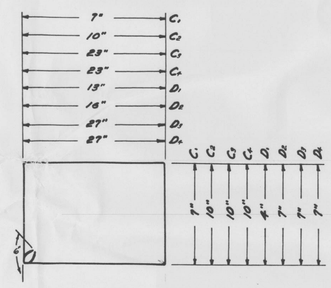
ELEVATION OF RAILING
Scale: 1 1/2" = 1'-0"

Note:
South Rail Similar

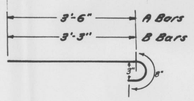
NORTH RAIL	
No. Panels	L
14	8'-8"
4	8'-8 1/2"
1	11'-7 3/8"
1	11'-10 1/2"
2	11'-4" Curved



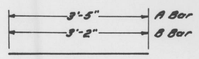
SECTION B-B
Scale 1 1/2" = 1'-0"



C and D BARS
IN NORTH and SOUTH RAILS



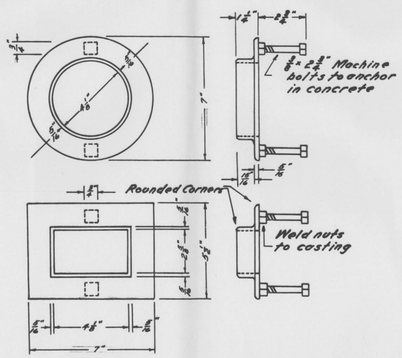
A and B BARS
IN NORTH RAIL ONLY



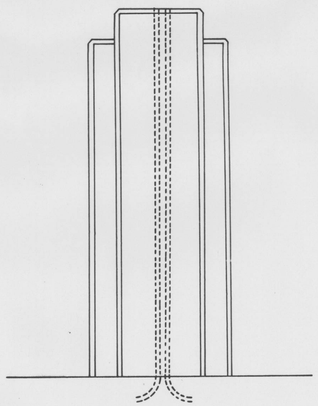
A and B BAR - STRAIGHT
IN SOUTH RAIL ONLY

BILL OF STEEL FOR POSTS FOR TWO RAILS

MK.	POST	NO. POSTS	NO. BARS IN POSTS	TOTAL BARS	SIZE	SPACE	SHAPE
A	Intermediate	36	4	144	1/2" ø	—	See Detail
B	"	"	4	144	1/2" ø	—	" "
C_1	"	"	5	180	5/8" ø	9"	" "
D_1	"	"	4	144	5/8" ø	9"	" "
A	Pier	4	4	16	1/2" ø	—	" "
B	"	"	4	16	1/2" ø	—	" "
C_2	"	"	5	20	5/8" ø	9"	" "
D_2	"	"	4	16	5/8" ø	9"	" "
A	Abutment	4	8	32	1/2" ø	—	" "
B	"	"	8	32	1/2" ø	—	" "
C_3	"	"	5	20	5/8" ø	9"	" "
D_3	"	"	4	16	5/8" ø	9"	" "
A	Wingwall	4	8	32	1/2" ø	—	" "
B	"	"	8	32	1/2" ø	—	" "
C_4	"	"	5	20	5/8" ø	9"	" "
D_4	"	"	4	16	5/8" ø	9"	" "



MALLEABLE IRON OR CAST STEEL FLANGES
Reg. 88 - Round Flanges
Reg. 88 - Rectangular Flanges
Scale: 3" = 1'-0"



INDICATING METHOD OF INSTALLING LIGHT CONDUIT

CAMBER TABLE (BRIDGE IN PLACE)

LOCATION ON BRIDGE	ELEVATIONS	
	TOP CONC. FL. ON ℄ BRIDGE	SLAB AT GUTTER
Crown Ctr. Span	108.72	108.47
℄ Beams Ctr. Span	108.71	108.46
℄ Piers 2 & 3	108.66	108.41
℄ Beams End Span	108.57	108.32
Crown End Span	108.48	108.23
℄ Beams Adj. Abu. Pier	108.36	108.11
End Roadway Slab	108.18	107.93

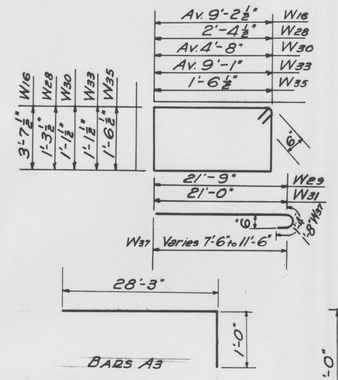
CITY OF AUSTIN TEXAS
OFFICE OF CITY ENGINEER
WIDENING
BARTON CREEK BRIDGE

Scale: As Noted	Date	Fed. Aid.	Page	
Designed by: C.G. Levander	Sept. 1945			
Drawn by: W. W. Hoff Jr.	Sept. 1945			
Traced by: W. W. Hoff Jr.	Sept. 1945			
Checked by: C.G. Levander	Sept. 1945			
Grades by:				
See Folder File:	Sheet G. of J. Sheets			
Approved: City Engineer	Cab	Draw	Number	
	6	B	102 P	

Revised By Date OK

BILL OF STEEL FOR ONE SLAB & BEAM SECTION A (3 Thus)

Mark	Location	No.	Size	Spacing	Shape	Length	Weight
A1	Upper Slab Steel, Long.	28	½"⌀	12"		11'-11"	224
A2	Lower Slab Steel, Long.	48	⅞"⌀	7"	Str.	10'-11"	1069
A3	Top & Bottom Slab-Temp.	14	⅜"⌀	15"		29'-3"	
A5	Sidewalk Span A.	6	⅜"⌀	12"		11'-11"	27
A7	" " "	18	⅜"⌀	6"		5'-9"	39
A8	Bott. Bm. under Railing	2	1⅛"□		Str.	10'-10"	93
A9	Stirrups for Bars A8	12	⅜"⌀	9"		2'-7"	12
A10	Bottom Beams Adj. Slab A	6	1¼"□	5"		32'-6"	1035
A11	Top " " " "	8	1¼"□	4"		32'-2"	1367
A12	Top beam adj. slab A in Sidewalk	4	1¼"□	4"		11'-0"	234
A13	Middle of beam for ties	6	⅜"⌀	—	Str.	33'-0"	75
A14	Cross Ties in beams	32	⅜"⌀	12"		2'-4"	28
A15 to A20	Beam stirrups under Sidewalk(2)	12	½"⌀	12"		7'-3" Av.	
A21 to A26	" " " Roadway(2 Ea)	12	½"⌀	12"		4'-11" Av.	-
A27	Stirrups for beams bet. arch rings	36	½"⌀	12"		5'-8"	
A28	Longitudinal for shelf beam	4	1"⌀	—	Str.	11'-0"	118
A29	" " " "	2	½"⌀	—	Str.	11'-0"	16
A30	Stirrups for A28 & A29	20	⅜"⌀	5"		5'-8"	43

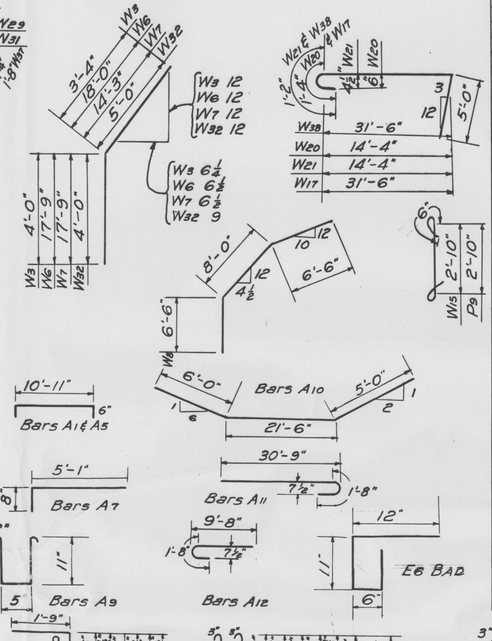


BARS A3

BILL OF STEEL FOR ONE SLAB & BEAM SECTION X (2 Thus)

	Mark	Location	No.	Size	Spacing	Shape	Length	Weight
	B1	Upper Slab Steel, Longit.	48	¾"⌀	14"	Str.	30'-6"	2196
	B2	" " " " over beams	120	¾"⌀	14"	Str.	8'-0"	1440
	B4	Sidewalk Slab Steel, Longit.	12	⅜"⌀	12"	Str.	30'-0"	137
	B5	Lower Slab Steel, Longit. (Spans B)	48	¾"⌀	14"	Str.	9'-3"	666
	B6	" " " " (Spans C)	24	¾"⌀	14"	Str.	40'-0"	1440
	B7	" " " " (Spans B&C)	144	¾"⌀	14"	Str.	6'-6"	1404
	B12	Transv. Sidewalk Slab	118	⅜"⌀	6"		5'-9"	258
	C1	Bottom of Beams	15	1¼"□	—		32'-6"	2589
	C2	Top of Beam	20	1¼"□	—		32'-2"	3416
	C3	Top of beams in sidewalk	10	1¼"□	—		11'-0"	584
5 Ea.	C4 to C8	Beam stirrups under swk.	25	½"⌀	12"		5'-6" Av.	
5 Ea.	C10 to C15	" " under roadway cant.	30	½"⌀	12"		3'-2½" Av.	
5 Ea.	C16	" " between arch rings	90	½"⌀	12"		5'-8"	
	D1	Long. under rails, slabs B&C	4	1⅛"□		Str.	30'-6"	
	D2	Stirrups for D1	78	⅜"⌀	9"		2'-10"	84
	E1	Long. for shelf beams	8	1"⌀	—	Str.	31'-0	663
	E2	" " "	4	½"⌀	—	Str.	30'-1"	81
	E3	Stirrups for E1 & E2	120	⅜"⌀	5"		5'-8"	259
	E5	Long. for bm. bracket under swk.	4	⅜"⌀	5"	Str.	4'-10"	7
	D3	Long. under rail over beams	10	1⅛"□	—	Str.	4'-0"	
	E6	Stirrups for E5	10	⅜"⌀	12"		3'-4"	
	B3	Top & Bottom Slab-Temp.	84	¾"⌀	15"		29'-3"	

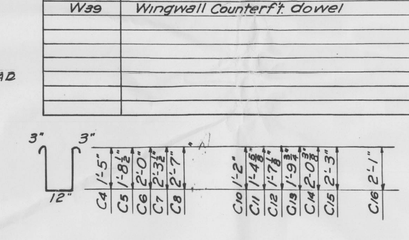
Bend same as Bars A7
" " " Bars A10
" " " Bars A11
" " " Bars A12



Mk.	Size	A	B	C	Length
W1	1½"□	29'-0"	7½"	1'-8"	32'-4"
W2	1"□	15'-0"	6"	1'-4"	17'-8"
W27	1"□	26'-0"	6"	1'-4	28'-8"

BILL OF STEEL FOR ONE ABUTMENT

Mark	Location	No.	Size	Spcg.	Shape	Length	Weight
W1	Footing, Longitudinal	32	1½"□	12"		32'-4"	5494
W2	" Transverse	58W	1"□	12"		17'-8"	3485
		64E	1"□	6"		17'-8"	3845
W3	" Dowels	16	1¼"□	6"	See detail	7'-4"	399
W4	" "	16	1¼"□	6"	Straight	7'-4"	399
W5	" "	12	⅝"⌀	—	"	6'-0"	75
W6	Ring	12	1½"□	6"	See detail	35'-9"	1459
W7	"	4	1½"□	6"	" "	32-0"	435
W8	"	16	1¼"□	6"	" "	21'-0"	1142
W9	"	12	1"□	6"	Straight	12'-0"	490
W10	"	4	⅝"⌀	—	"	7'-3"	30
W11	"	4	⅝"⌀	—	"	15'-9"	66
W12	"	4	⅝"⌀	—	"	18'-6"	77
W13	"	8	⅝"⌀	—	"	16'-3"	134
W14	"	8	⅝"⌀	—	"	3'-8"	31
W15	"	24	⅜"⌀	—	See Detail	3'-10"	34
W16	" Hoops	48	½"□	12"	" "	26'-8" Av	1088
W17	Front wall-Rear face	23	1"⌀	6"	" "	37'-10"	2323
W18	" " front "	24	⅝"⌀	12"	Straight	31'-6"	786
W19	" " corner	24	⅝"⌀	12"	"	3'-6"	88
W20	Side wall-front face	25	1"⌀	—	See detail	20'-8"	1380
W21	" " " "	10	⅝"⌀	—	" "	20'-6"	308
W22	" " rear "	25	⅝"⌀	12"	Straight	14'-6"	377
W23	Front wall-front face	17	⅝"⌀	24"	"	14'-3"	252
W24	" " " "	17	⅝"⌀	24"	"	11'-0"	195
W25	" " rear "	17	⅝"⌀	24"	"	23'-3" Av.	411
W26	Side wall-both faces	14	⅝"⌀	24"	"	23'-9"	346
W27	Wing wall Counterfort Strut	6	1"□	—		28'-8"	
W28	" " " "	20	½"□	12"	See detail	8'-4"	142
W29	" " "	4	1"□	4"	" "	23'-1"	314
W30	" " "	18	⅝"⌀	12"	" "	12'-7" Av.	236
W31	Front wall "	8	1"□	4"	" "	22'-4"	607
W32	" " " Dowel	8	1"□	4"	" "	9'-0"	245
W33	" " "	34	⅝"⌀	12	" "	21'-5" Av.	757
W34	Column	4	1"□	—	Straight	36'-6"	496
W35	"	37	½"□	12"	See detail	7'-2"	225
W36	" Dowel	4	1"□	—	Straight	6'-8"	91
W37	Footing-Upper steel	16	1¼"□	12"	See detail	11'-2" Av.	949
W37	" Lower "	46	1¼"□	4"	" "	11'-2" Av.	2728
W38	Front wall-rear face	14	⅞"⌀	—	" "	37'-8"	1076
W39	Wingwall Counterft. dowel	4	1"□	—	Straight	8'-0"	



Bars D2

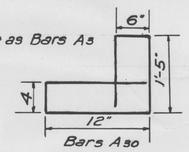
BILL OF STEEL FOR ONE SLAB & BEAM SEC. YE (One Thus)

Mark	Location	No.	Size	Spacing	Shape	Length	Weight
F1	Upper slab steel, long. B,C,D	24	¾"⌀	14"	Str.	27'-6"	
F2	" " " " Span B-C	24	¾"⌀	14"	Str.	8'-0"	288
F3	" " " " Span C-D	24	¾"⌀	14"	Str.	10'-0"	360
F6	Lower " " " " B,C,D	24	¾"⌀	14"	Str.	27'-6" Av.	
F7	" " " " " B	24	¾"⌀	14"	Str.	6'-6"	234
F8	" " " " " C	24	¾"⌀	14"	Str.	7'-0"	252
F9	" " " " " D	24	¾"⌀	14"	Str.	6'-0" Av	216
F10	Transverse, Top & bottom, B,C,D	50	⅜"⌀	15"		29'-3"	
F11	" bottom, swk. slab	64	⅜"⌀	6"		5'-9"	131
F12	Long. bottom swk. slab	6	⅜"⌀	12"	Str.	31'-5" Av.	
C1	Bottoms of beams	6	1¼"□	—		32'-6"	1035
C2	Top of beams	8	1¼"□	—		32'-2"	1367
C3	" " in swk.	4	1¼"□	—		11'-0"	234
2 ea. C4 to C8	Beam stirrups under swk.	10	½"⌀	12"		5'-6" Av.	
2 ea. C10 to C15	" " " Roadway cant.	12	½"⌀	12"		3'-2½" Av.	
C16	" " between arch rings	36	½"⌀	21"		5'-8"	46
F13	Long. under rail	2	1⅛"□	—	Str.	31'-10"	
D2	Stirrups for F13	43	⅜"⌀	9"		2'-10"	46
F14	Long. for shelf beams	4	1"⌀	—	Str.	23'-6"	
F15	" " "	2	½"⌀	—	Str.	23'-6"	
E3	Stirrups for F14 & F15	56	⅝"⌀	5"		5'-8"	121
E5	Long. for bm. on bracket und. swk.	4	⅜"⌀	5"	Str.	4'-10"	7
D3	Long. under rail-over beams	4	1⅛"□	—	Str.	4'-0"	
E6	Stirrups for E5	10	⅜"⌀	12"		3'-4"	

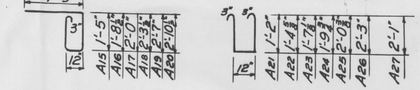
8'-6" Max.-3'-6" Min.
Bend Same as A3
Bend same as A7

Bend same as A10 above.
" " " A11 "
" " " A12 "
" " " C4 to C8 "
" " " C10 to C15 "
" " " C16 "
" " " D2 "

Bend same as A30 above.

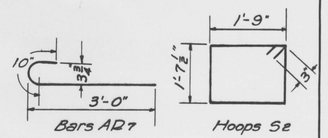


Bars A30

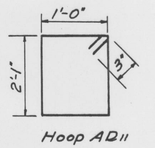


BILL OF STEEL FOR ONE SLAB & BEAM SECTION Y-W (One required thus.)

Mark	Location	No.	Size	Spacg.	Shape	Length	Weight	
G1	Upper slab steel, Long.	24	¾"⌀	14"	Str.	29'-0" Av.		Max. 31'-6"-Min. 24'-6"
G4	S.W. slab steel, Long.	6	⅜"⌀	12"	Str.	24'-2" Av.		Max. 24'-9"-Min. 23'-6"
G6	Lower " " "	24	¾"⌀	14"	Str.	28'-0" Av.		Max. 31'-6"-Min. 24'-6"
G9	" " " " Span D	24	¾"⌀	14"	Str.	6'-0" Av.	216	Max. 6'-6"-Min 3'-6"
G12	Transv., Swk. slab	46	⅜"⌀	6"		5'-9"	101	Bend same as A7
G13	Long. under rails	4	1⅛"□	4½"	Str.	23'-3"		
G14	Long. for shelf beams	4	1"⌀	—	Str.	31'-0"	332	
G15	" " " "	2	½"⌀	—	Str.	31'-0"	42	
F2	Upper slab steel, long. Span B to C	24	¾"⌀	14"	Str.	8'-0"	288	
F3	" " " " C to D	24	¾"⌀	14"	Str.	10'-0"	360	
F7	Lower " " " Span B	24	¾"⌀	14"	Str.	6'-6"	234	
F8	" " " " Span C	24	¾"⌀	14"	Str.	7'-0"	252	
F10	Transverse, Top & bott., B.C. & D.	48	⅜"⌀	15"	Str.	28'-3"	515	
C1	Bottom of beams	6	1¼"□	—		32'-6"	1035	Bend Same as A-10
C2	Top of beams	8	1¼"□	—		32'-2"	1367	" " " A11
C3	Top of beams in swk.	4	1¼"□	—		11'-0"	234	" " " A12
C4 to C8	Beam stirrups under swk., 2 ea.	10	½"⌀	12"		5'-10" Av.		" " " C4 to C8 above
C10 to C15	" " Roadway cant. 2 ea.	12	½"⌀	12"		3'-2½" Av.		" " " C10 to C15 "
C16	" " between arch rings	36	½"⌀	21"		5'-8"		" " " C16 above
D2	Stirrups for G13 (Bm. under rails)	26	⅜"⌀	9"		2'-10"	28	" " " D2 "
E3	Stirrups for G14 & G15	64	⅜"⌀	5"		5'-8"	138	" " " A30 "
E5	Long. for bm. on bracket under swk.	4	⅜"⌀	5"	Str.	4'-10"	7	



Bars AD7 Hoops S2



Hoop AD11

BILL OF STEEL FOR ONE ARCH RING (6 required thus).

Mark	Location	No.	Size	Spacg.	Shape	Length	Weight
AD1	Long., Top arch ring	12	1"□	6"		37'-10"	1544
AD2	Long., Bott. " "	12	1"□	6"		37'-0"	1510
AD3	Radial ties-bott.-bet. AD1 & AD2	144	⅝"⌀	3'-0" & 6"		2'-7" Av.	140
AD4	Transv. "	48	⅝"⌀	3'-0"	Str.	2'-9"	138
AD5	Strut dowels	12	1"□	—	Str.	6'-0"	
AD6	Dowels for columns vert.	30	1"⌀	—	Str.	4'-6"	360
AD7	Horizontal anchors, col. bases	15	⅝"⌀	—		3'-8"	57
S1	Long. strut beam	6	1"□	—	Str.	13'-0"	
S2	Hoops " "	13	½"□	12"		13 7'-3"	
AD8	Verticals Col. 1	6	1"⌀	—	Str.	10'-9"	173
AD9	" Col. 2	6	1"⌀	—	Str.	6'-9"	108
AD10	" Col. 5	6	1"⌀	—	Str.	5'-6"	88
AD11	Col. hoops, col. 1-2-3-4-5	18	½"□	12"		6'-8"	102

Field bend-Clip splice
" " " "
Field cut & Field bend

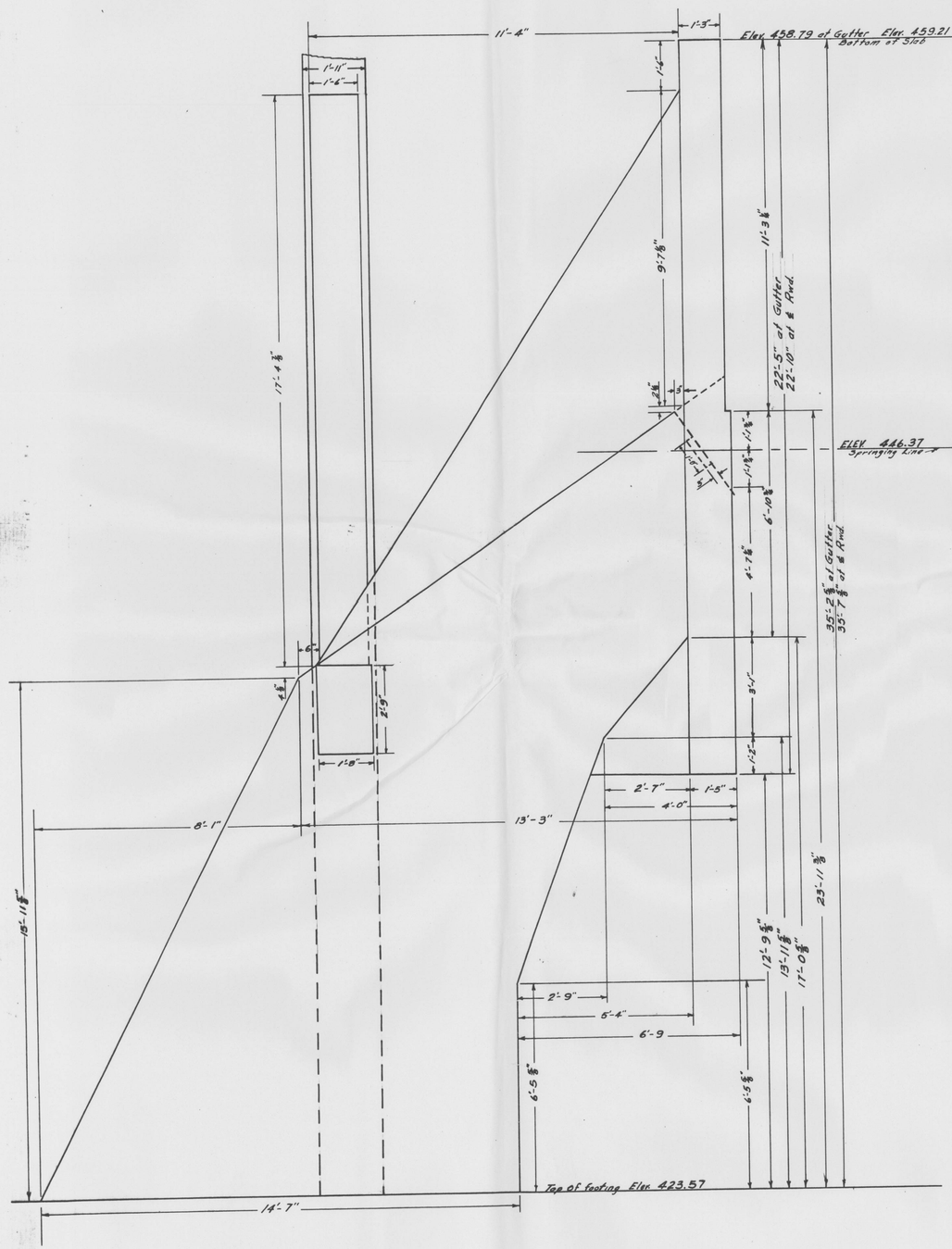
Revisions by	Date	O.K.

CITY OF AUSTIN, TEXAS
OFFICE OF CITY ENGINEER

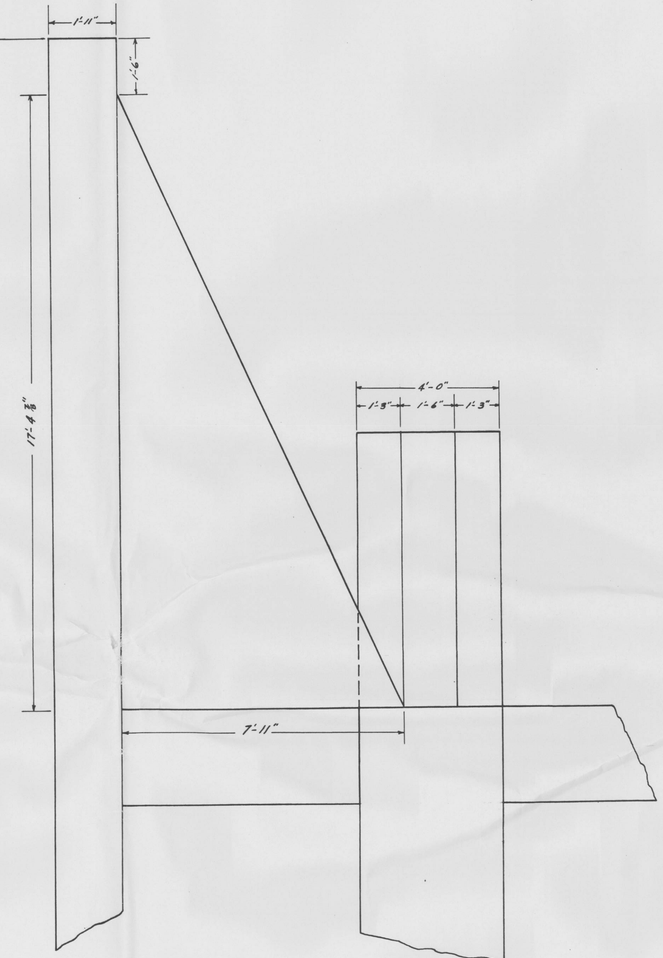
WIDENING
Barton Creek Bridge

	Date	Fd. bk.	Page
Scale:			
Designed by: C.G. Levander	Sept. '45		
Drawn by:			
Traced by: B.F. Priest	Sept. '45		
Checked by: C.G.L.	Sept. '45		
Grades by:			
See Folder File:	Sheet 7 of 7 Sheets		
Approved: City Engineer	Cab. 6	Draw. B	Number 102g

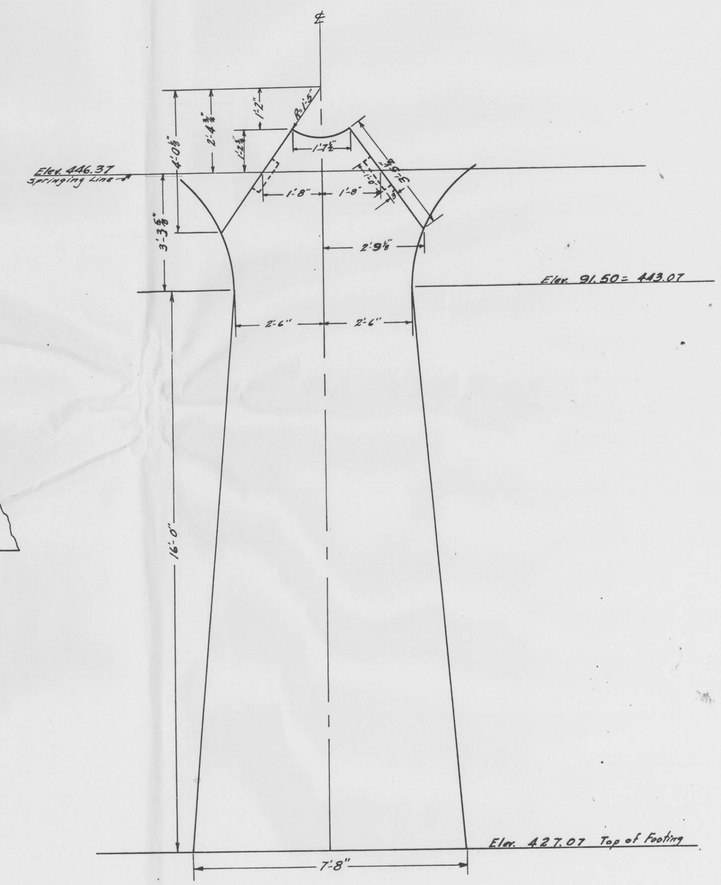
6-B-102



SECTION A-A
SCALE ½" = 1'-0"



VIEW D-D
SCALE ½" = 1'-0"



SECTION C-C
SCALE ½" = 1'-0"

6-B-102