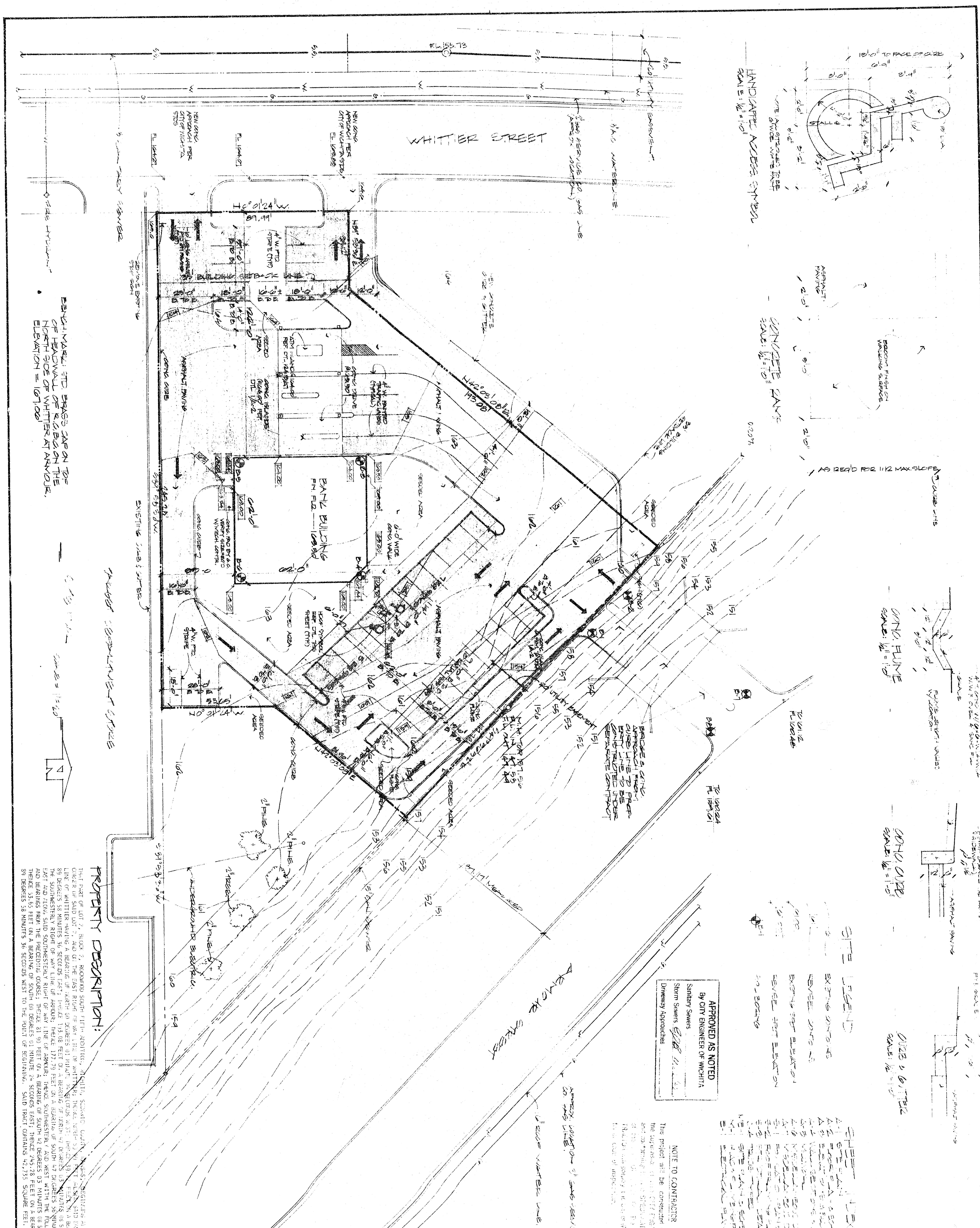


REINFORCED CONCRETE BOX CULVERT
ARMOUR TRIBUTARY TO GYPSUM CREEK

PART OF LOT 2, BLOCK 2, ROCKWOOD SOUTH FIFTH ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS

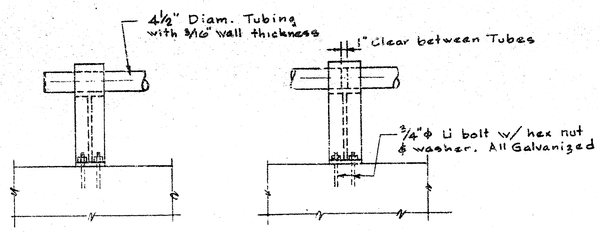
SOUTHWEST NATIONAL BANK

TOWNE EAST FACILITY

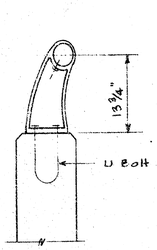
WICHITA, KANSAS

CITY OF WICHITA PROJECT NO.
468762458000000000008

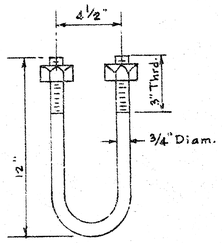
SHEET A-1 OF 3



ALUMINUM RAILING DETAIL
1" = 1'-0"



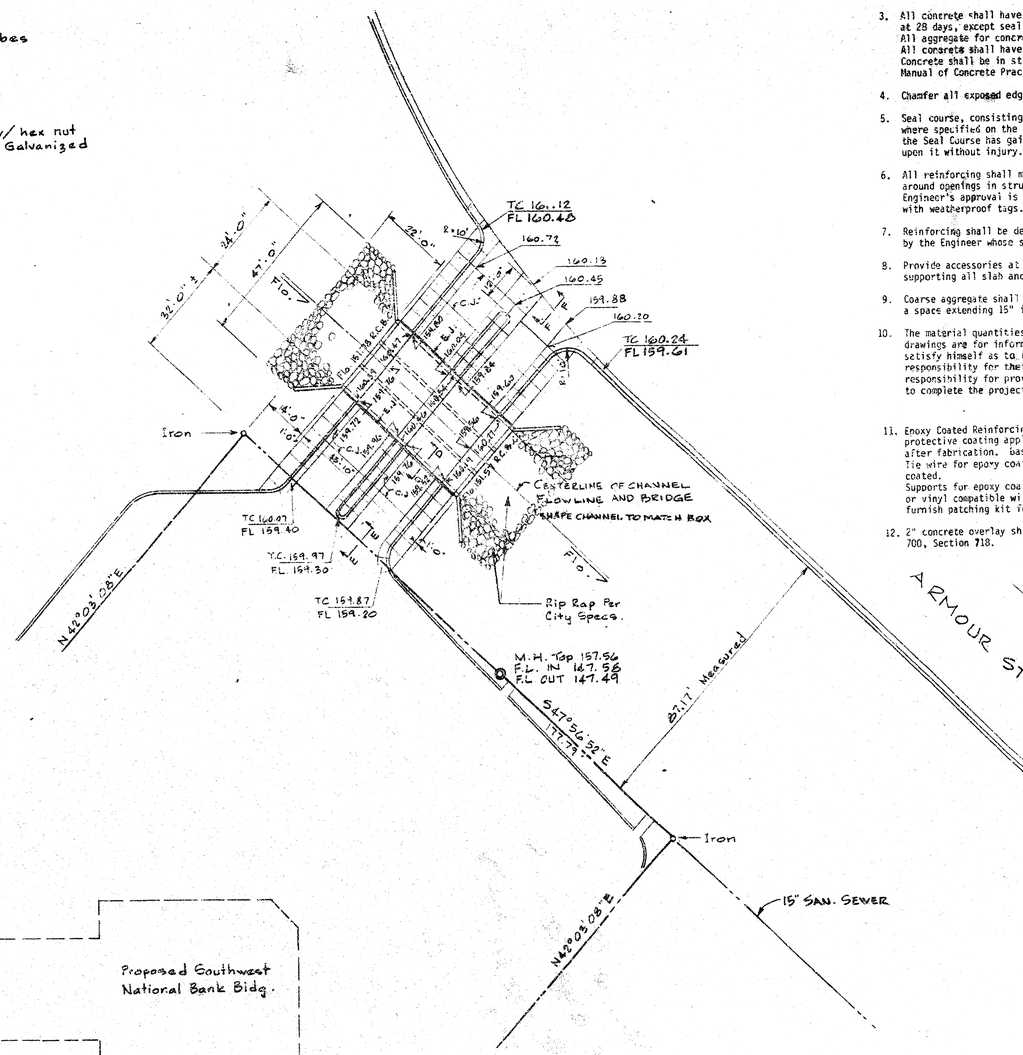
SECTION C-C
1" = 1'-0"



GALV. U-BOLT
NO SCALE

NOTE; Aluminum Handrail

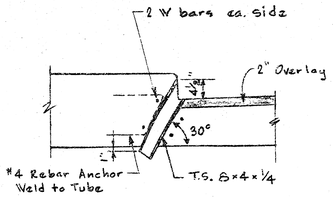
Aluminum posts shall be Reynolds Aluminum Highway Products Bridge Railing System No. 1823 or equal.
Rail shall be 4 1/2" O.D. x 3/16" Wall Tube of 6063-T6 aluminum.
Aluminum shims between concrete and post base may be used. The space below post shall be thoroughly caulked with Alkaflastic compound or other approved material.



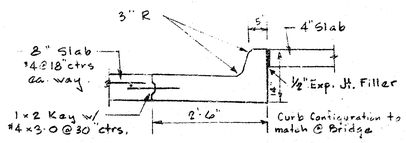
SITE PLAN
SCALE 1" = 20'-0"

GENERAL NOTES

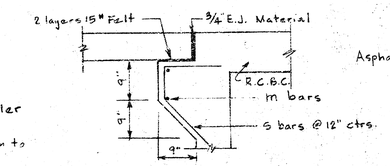
1. All work and materials shall conform to the specification of the City of Wichita.
2. Loading: HS20-44 AASHO Specifications.
3. All concrete shall have a minimum compressive strength of 4000 psi. at 28 days, except seal course may be 3500 psi. @ 28 days.
   All aggregate for concrete shall meet ASTM C-33.
   All concrete shall have from 4 to 7% entrained air.
   Concrete shall be in strict conformance with the current "ACI Manual of Concrete Practice".
4. Chamfer all exposed edges of concrete 3/4".
5. Seal course, consisting of 3" of concrete, shall be constructed where specified on the plans. No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.
6. All reinforcing shall meet ASTM A615-40,000. Fan main reinforcing around openings in structural slabs. Do not field cut bars unless Engineer's approval is obtained. Mark each bundle of reinforcing with weatherproof tags.
7. Reinforcing shall be detailed according to the ACI Detailing Manual by the Engineer whose stamp appears on these drawings.
8. Provide accessories at 4'-0" centers max. for positioning and supporting all slab and footing reinforcing.
9. Coarse aggregate shall be deposited behind each weephole to occupy a space extending 15" in all directions above the weephole flowline.
10. The material quantities and reinforcing lengths shown on these drawings are for information purposes only. The contractor must satisfy himself as to the quantities and the engineer assumes no responsibility for their accuracy. The contractor will have full responsibility for providing all materials on these plans necessary to complete the project.
11. Enoxy Coated Reinforcing Bars shall meet ASTM-A775-81, protective coating applied by electrostatic spray method after fabrication. basic steel ASTM A615 (S1).
    Tie wire for epoxy coated bars shall be epoxy or nylon coated.
    Supports for epoxy coated bar shall be coated with epoxy or vinyl compatible with concrete. Supplier shall furnish patching kit for repair of damaged coating.
12. 2" concrete overlay shall meet 1980 KDOT Spec. Division 700, Section 718.



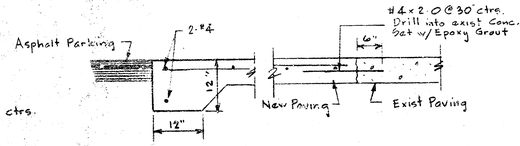
DRAIN DETAIL - 6 REQ'D
¾" = 1'-0"



CURB DETAIL
NO SCALE

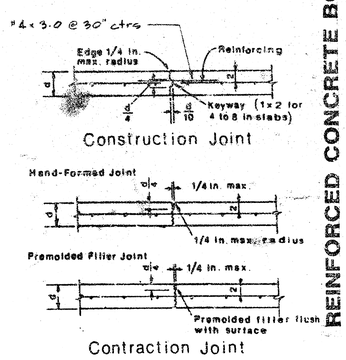


SECTION D-D
¾" = 1'-0"



SECTION E-E
¾" = 1'-0"

SECTION F-F
¾" = 1'-0"



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ARMOUR TRIBUTARY TO GYPSUM CREEK
PART OF LOT 2, BLOCK 2, ROCKWOOD SOUTH FIFTH ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS

Dudley/Williams & Associates, P.A.
Structure Engineers
230 Laura Wichita, Kansas 67211

Beech & Fullinger
Architects
1202 EAST FIRST
WICHITA, KANSAS • (316) 262-3535

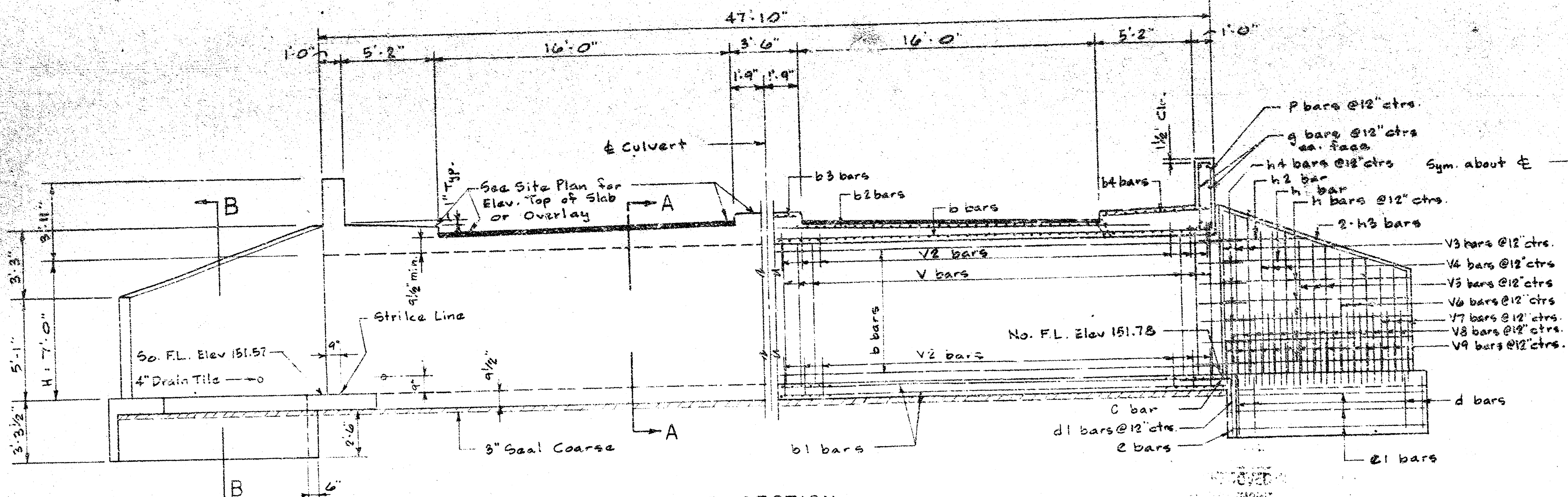
SOUTHWEST NATIONAL BANK
TOWNE EAST FACILITY
WICHITA, KANSAS

CITY OF WICHITA PROJECT NO.
463762458000000008

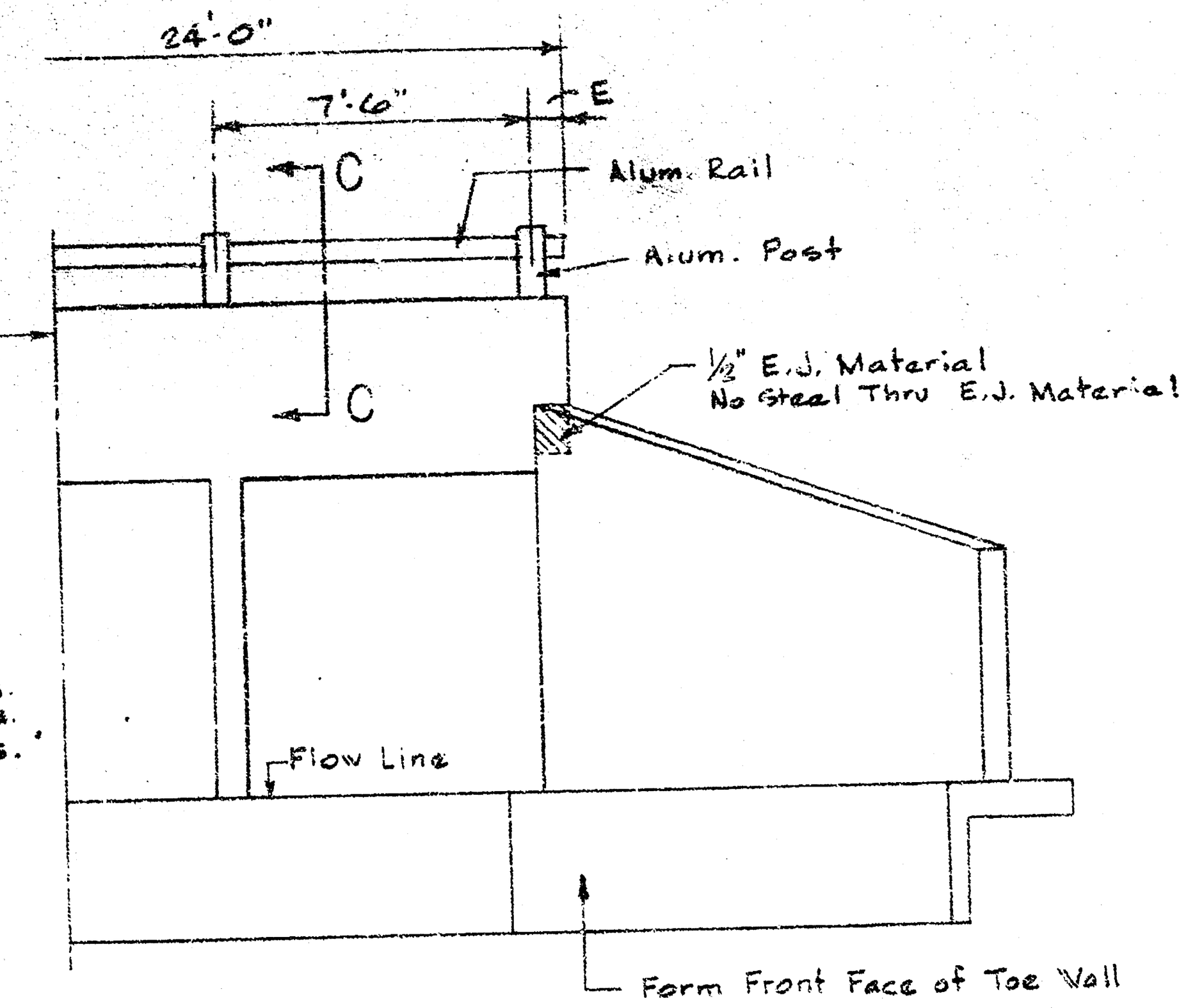
NOV. 9, 1983

BRIDGE PLAN

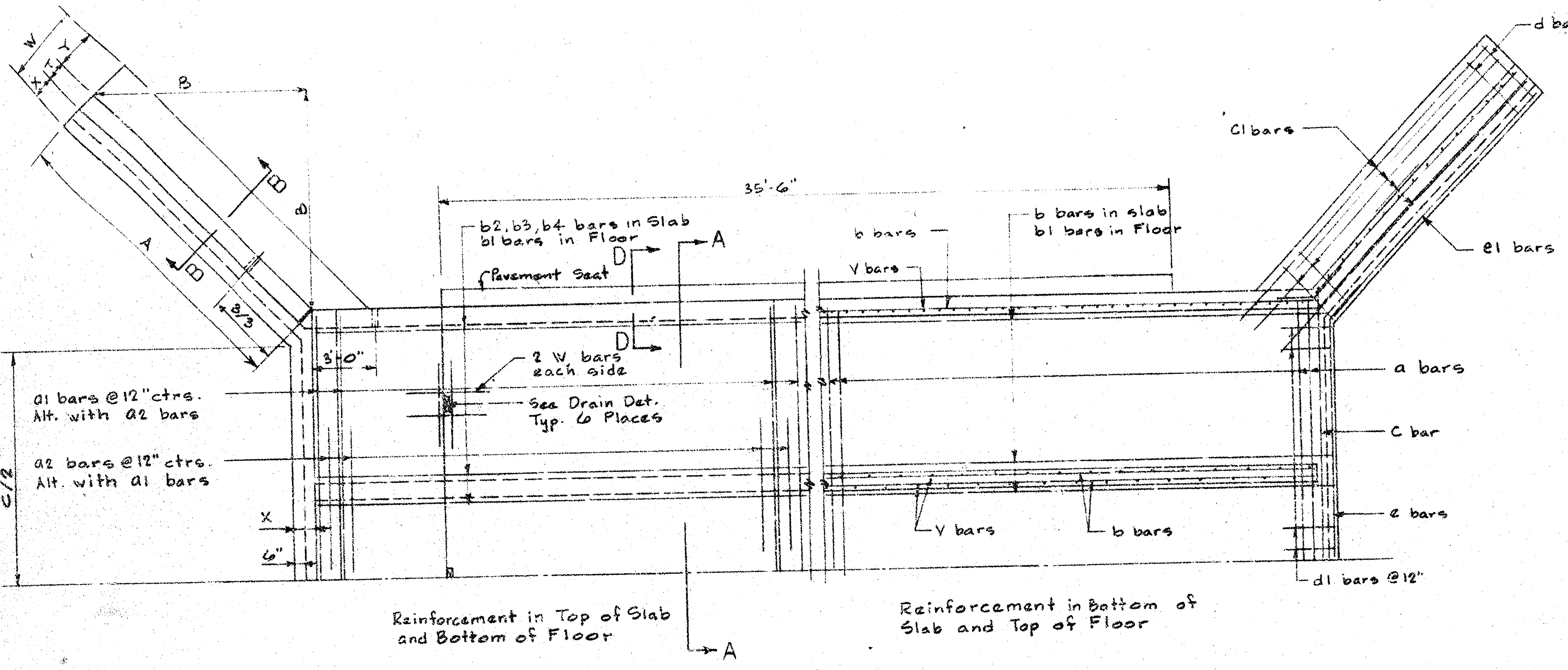
B-1
2/3



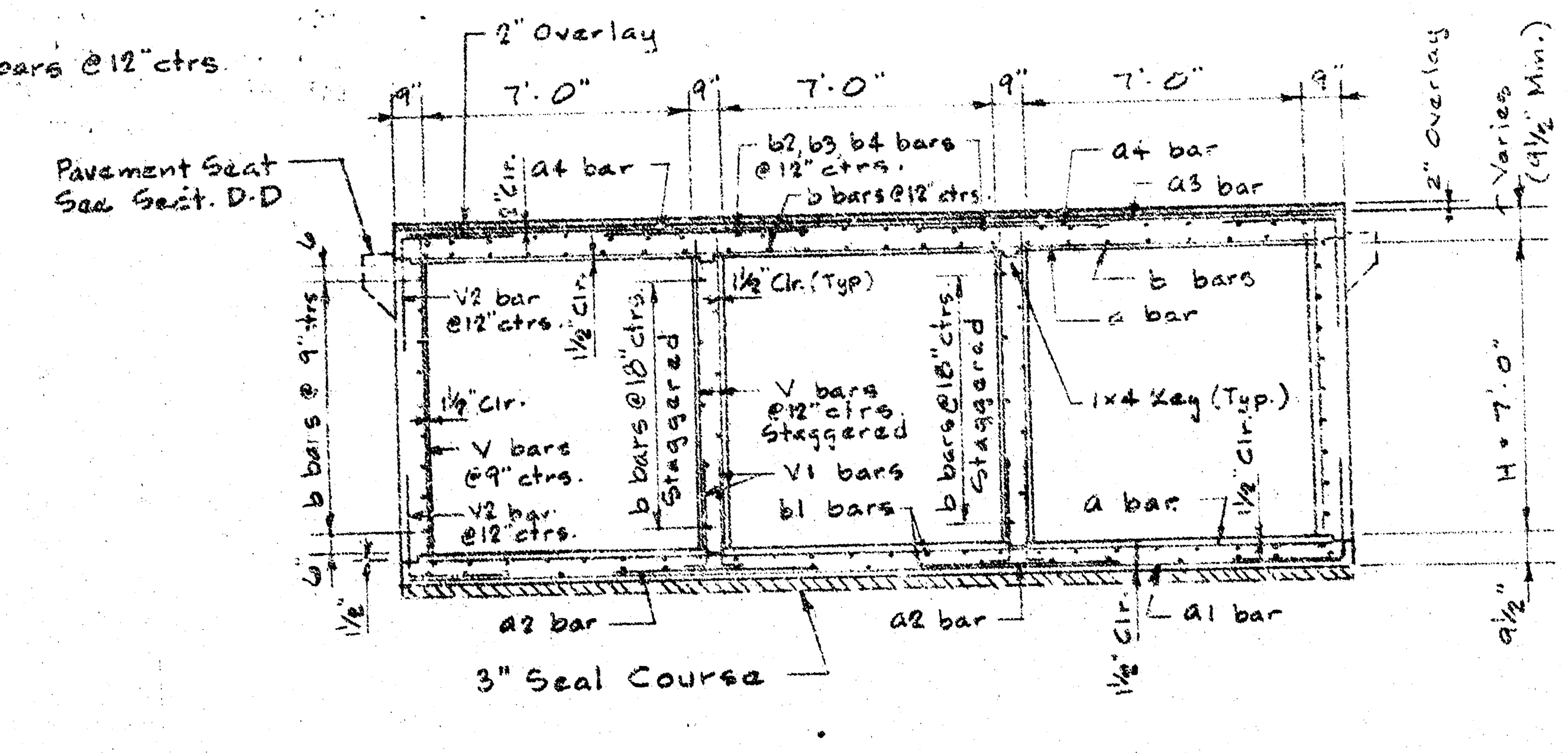
ELEVATION AND SECTION



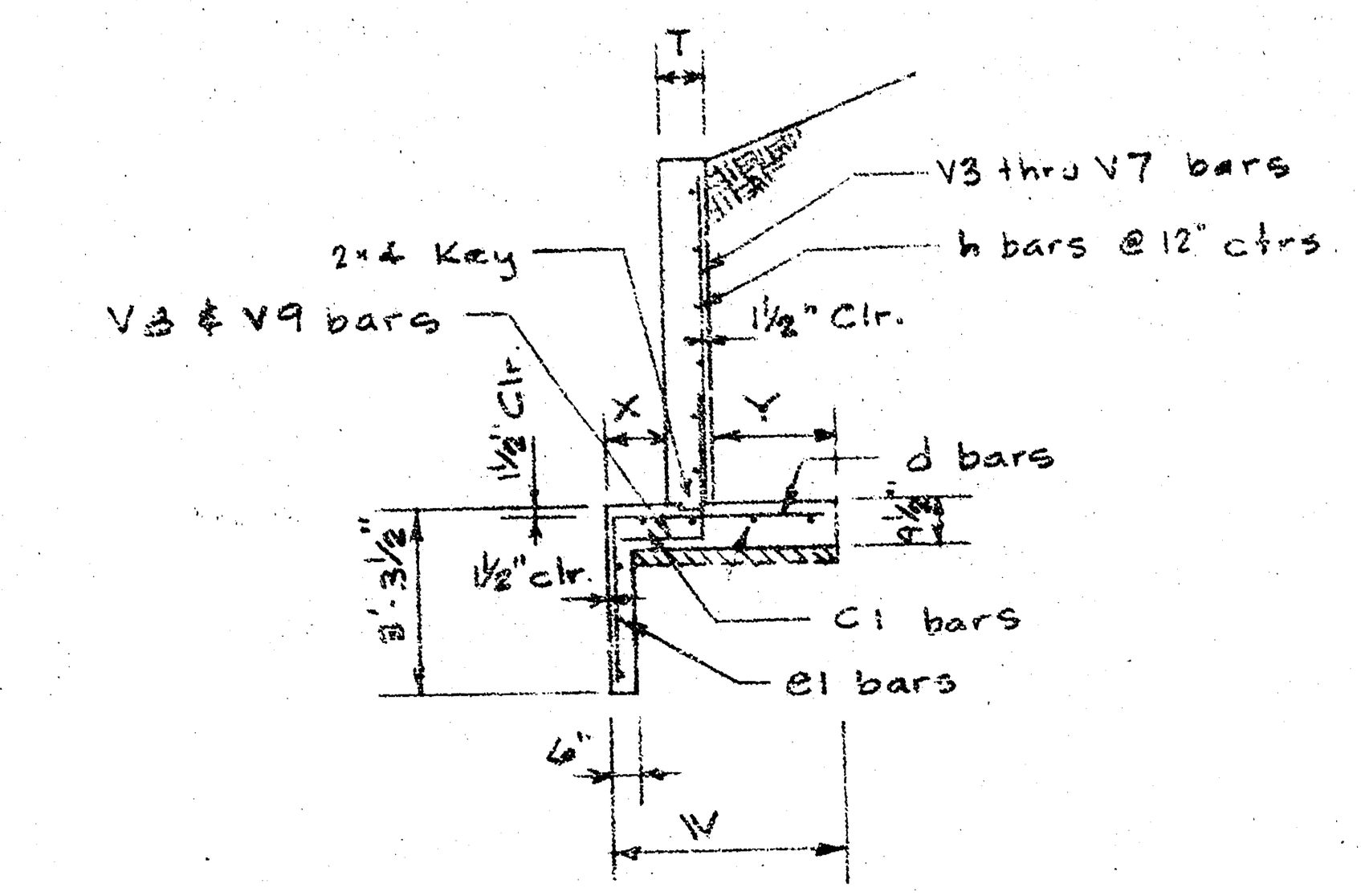
HALF END ELEVATION



HALF PLAN AND SECTION



SECTION A-A THRU BOX
(1/2 OF 3 - 7X7)



SECTION B-B

MATERIAL QUANTITIES: Reinforced Concrete Box Culvert

Concrete : Culvert - 155.0 C.Y.
Seal Course - 12.9 C.Y.
Overlay - 4.8 C.Y.

Reinforcing Steel: Regular - 15,673 LBS
Epoxy Coated - 2,570 LBS

Epoxy Coat Bars Denoted Thus #5 ■

LIST OF BARS AND DIMENSIONS

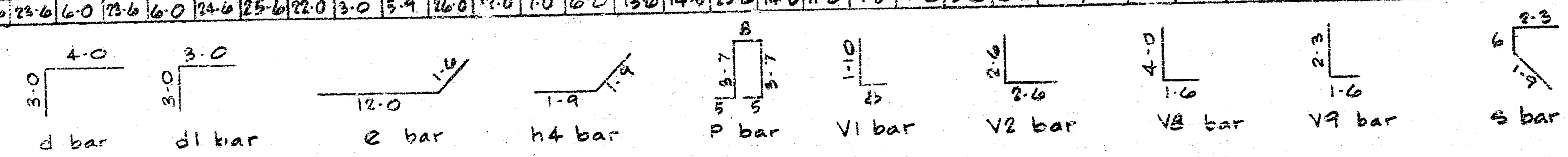
3 - 7 x 7 x 47-10

Letter	A	B	C	E	H	T	W	X	Y
Dimension	14'-0"	9'-10½"	21'-0½"	9"	7'-0"	9"	4'-3"	1'-0"	2'-6"

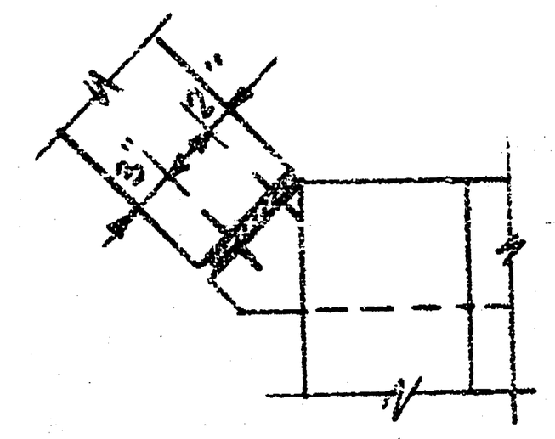
Bar	a	a1	a2
Spacing	6"	12"	12"

Bar	a	a1	a2	a3	a4	b	b1	b2	b3	b4	c	c1	d	d1	e	e1	g	h
No.	192	48	96	48	96	120	41	24	48	48	2	16	60	44	6	6	16	20
Size	#5	#5	#5	#5■	#5■	#4	#4	#4■	#5■	#5■	#4	#4	#5	#5	#4	#4	#5	#5
Length	23-6	23-6	6-0	23-6	6-0	24-6	25-6	22-0	3-0	5-9	26-0	17-0	7-0	6-0	13-6	14-0	23-6	14-0

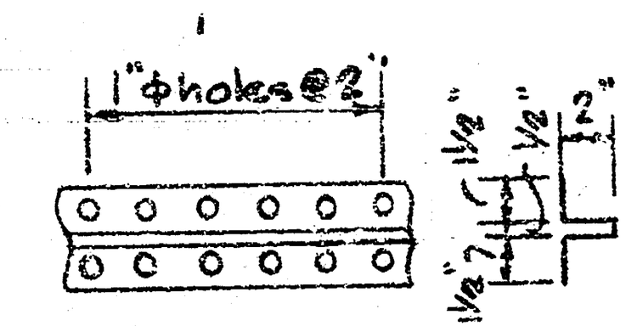
Bar	h1	h2	h3	h4	P	V	V1	V2	V3	V4	V5	V6	V7	V8	V9	W	m	S
No.	4	4	8	28	96	224	96	192	12	12	12	12	12	56	60	48	8	72
Size	#5	#5	#5	#5	#5	#4	#4	#5	#4	#4	#4	#4	#4	#4	#4	#5	#5	#5
Length	11-0	7-0	[illegible]-6	3-6	8-8	7-6	2-6	5-0	7-7	6-11	6-3	5-7	4-11	5-6	3-9	4-6	19-0	4-6



BENDING DIAGRAMS



WING EXP. JOINT



12 OZ. SHEET COPPER RETAINER 8 Required.

NO SCALE

Dudley Williams & Associates, P.A.
Structural Engineers
230 Laura Wichita, Kansas 67211

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Nov. 9, 1983

BRIDGE DTLS

B-2

N 6 4 13

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