2- 7' x 5.5' R.C.B.C.

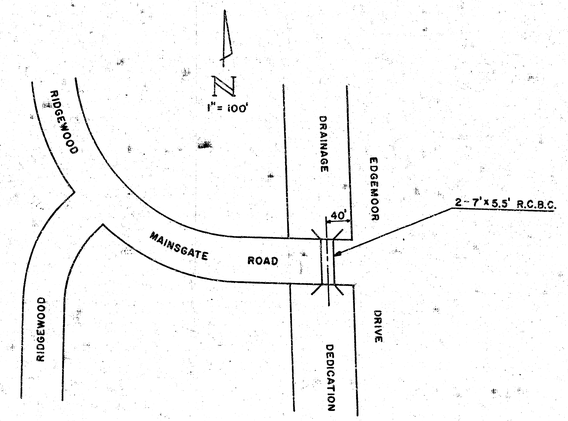
MAINSGATE ROAD
WOODLAWN PLACE 5th ADDn

CITY OF WICHITA, KANSAS

D.S. SELLERS CITY ENGINEER

PROJ. NO. 472 76 245 80874 000 000 004

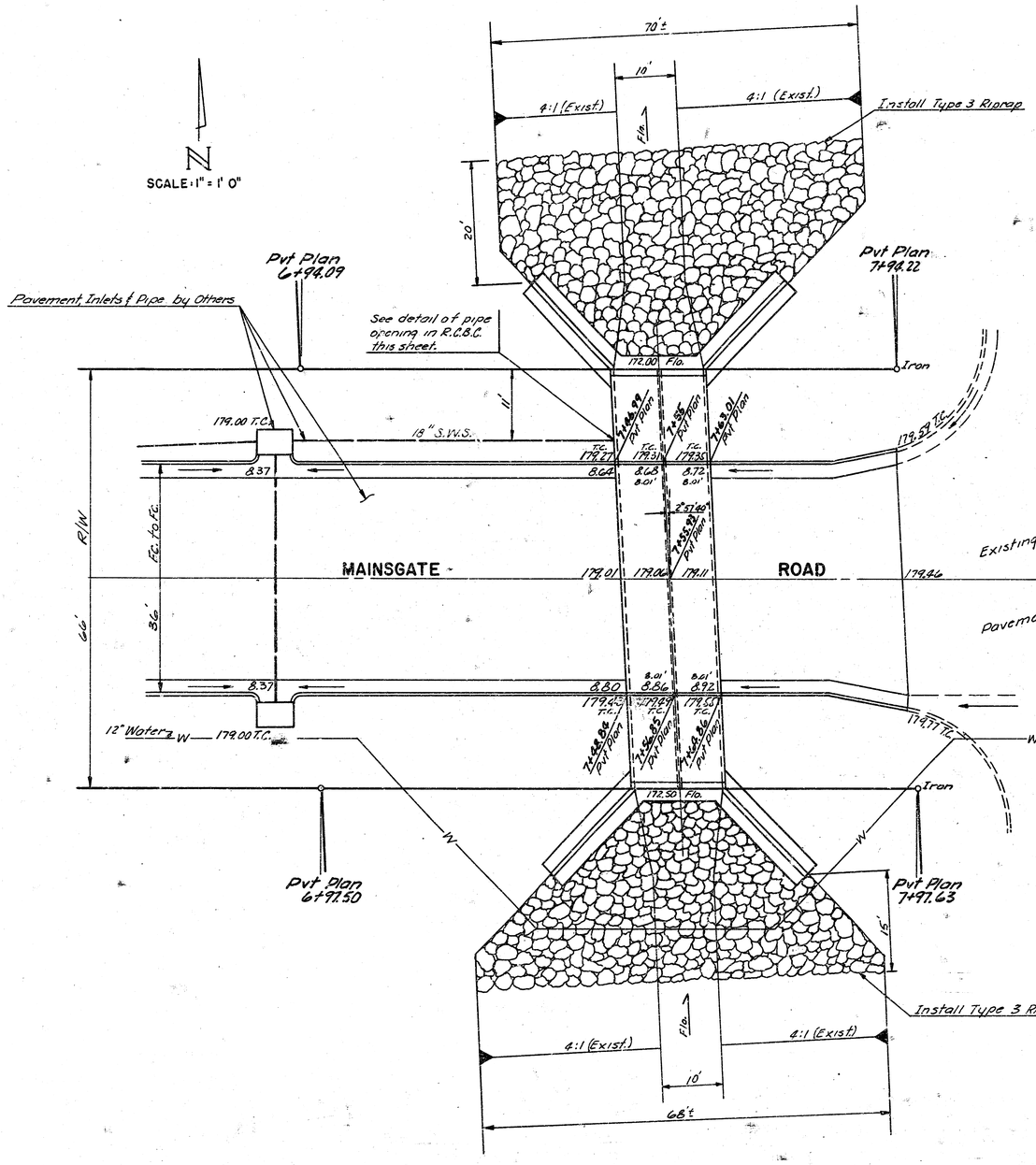
DATE:

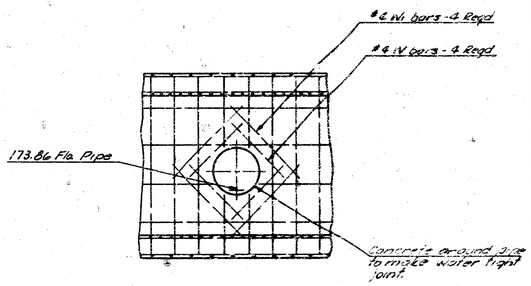


LOCATION MAP

1/4

B.M. 195.46 Chisled "□" center headwall 60' West and 60' North 21st & Edgemoor
B.M. 180.82 E. edge top ring 2nd M.H. South of Mainsgate, West Side of Edgemoor





DETAIL - 18" PIPE OPENING
3/8" = 1' 0"

Survey D.C.D. Plan D.E.C. Exc. Checked

2-7'x5.5' R.C.B.C.

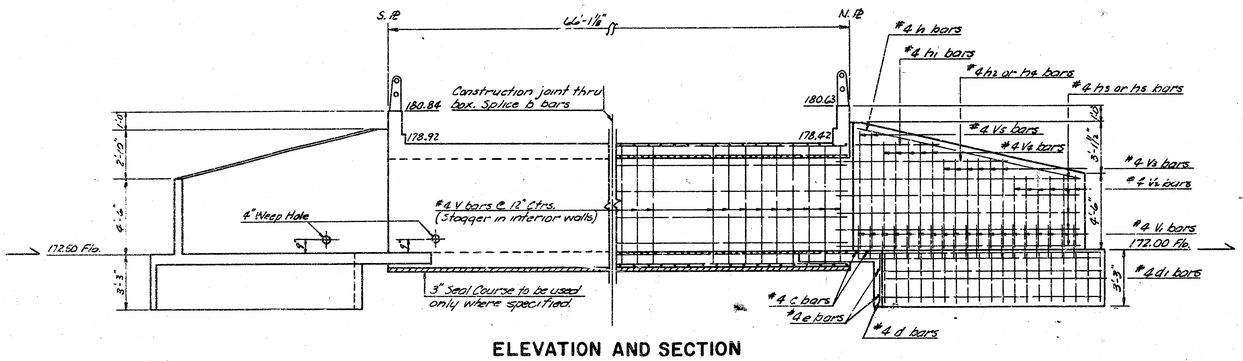
MAINSGATE ROAD

WOODLAWN PLACE 5th ADDn

2/4

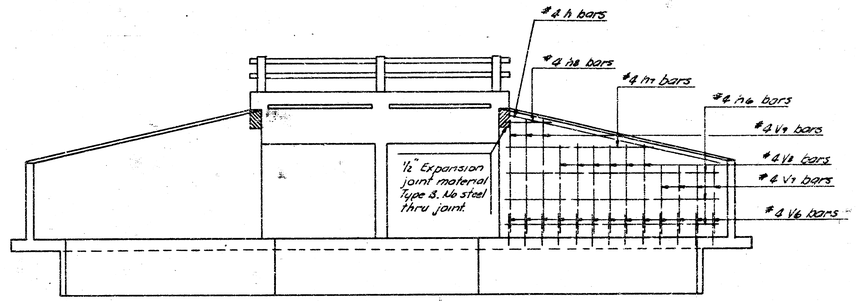
PROJ. NO. 472 76 245 80874 000 000 004

2/5



ELEVATION AND SECTION

1/4" = 1' 0"



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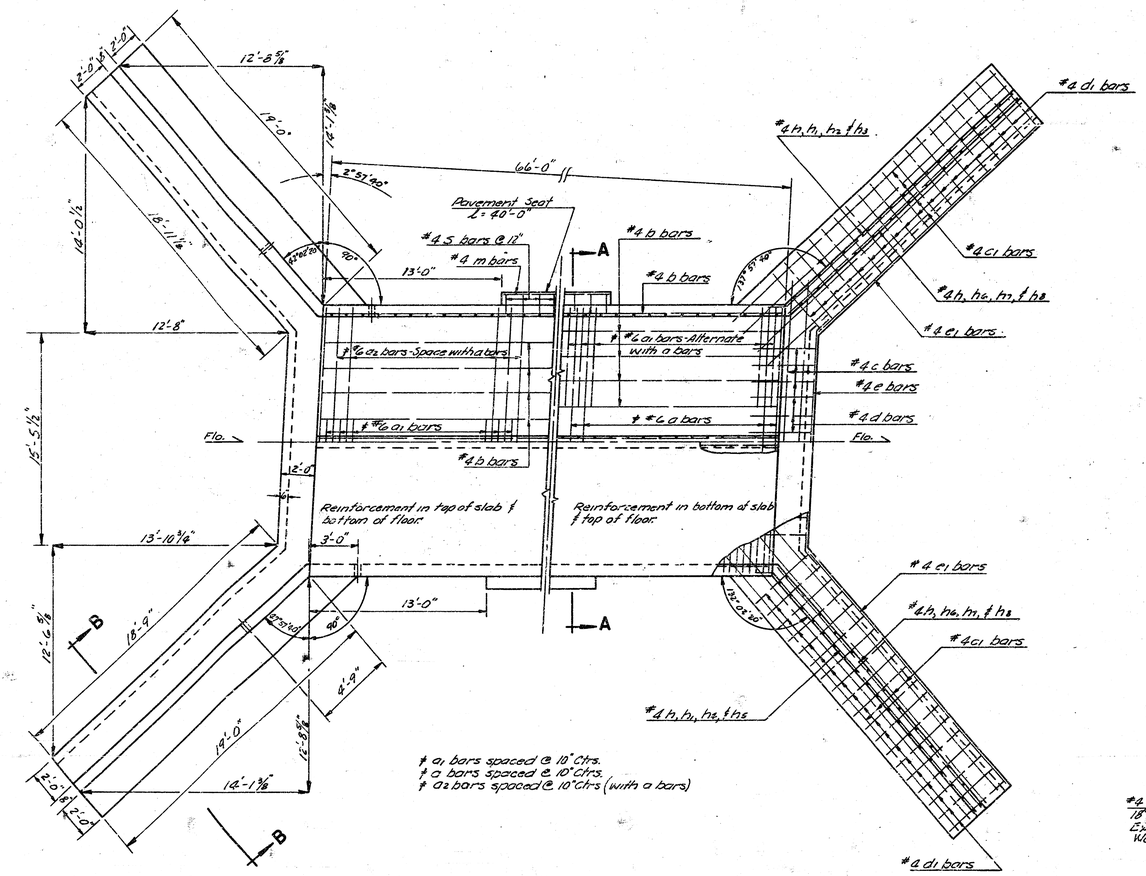


PLAN AND SECTION

1/4" = 1' 0"

E. EDGE RCBC
PVT STA. 7+63.94

℄ RCBC
PVT STA. 7+55.93

W. EDGE RCBC
PVT STA. 7+47.92

SLAB ELEVATIONS

NO SCALE

SECTION A-A

1/4" = 1' 0"

3/5

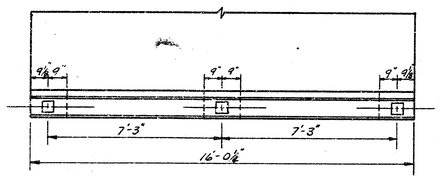
2 - 7'x 5.5' R.C.B.C.

MAINSGATE ROAD

WOODLAWN PLACE 5th ADDn

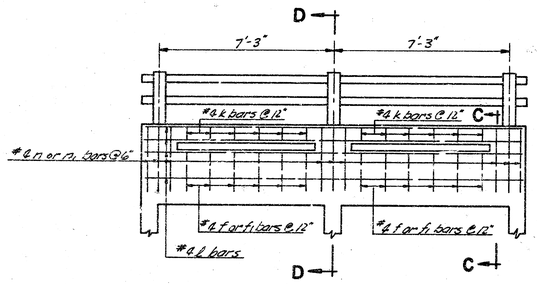
3/4

PROJ. NO. 472 76 245 80874 000 000 004



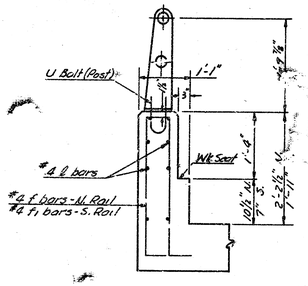
PLAN-RAILING

3/8"=1'0"



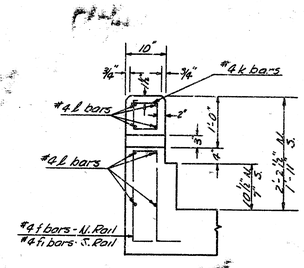
SECTION-RAILING

3/8"=1'0"



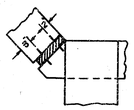
SECTION D-D

NO SCALE

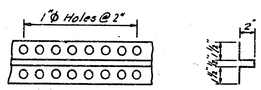


SECTION C

NO SCALE



WING EXP. JOINT



12 OZ. SHEET COPPER RETAINER

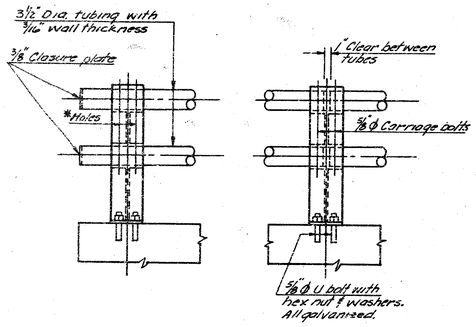
8 REQ'D

GENERAL NOTES

1. CLASS A-AE - CONCRETE SHALL BE USED THROUGHOUT ON THE STRUCTURE. THE REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPECIFICATIONS.
2. EARTHWORK - ALL EARTHWORK SHALL BE CONSIDERED AS "COMMON EXCAVATION" EXCEPT FOR THE TOEWALL. TOEWALL EXCAVATION SHALL BE INCLUDED IN "LUMP SUM BID".
3. BACKFILL - ALL BACKFILL AND EXCAVATION TO EXTEND TO (2') BEYOND SIDES OF BOX AND WING-WALLS.
4. BEVEL - ALL EXPOSED EDGES OF CONCRETE WITH 3/4" TRIANGULAR MOULDING.
5. WEEPHOLES - COURSE AGGREGATE SHALL BE DEPOSITED BEHIND EACH WEEPHOLE TO OCCUPY A SPACE EXTENDING (15") IN ALL DIRECTIONS ABOVE WEEPHOLE FLOW LINE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED A PART OF THE EXCAVATION WORK.
6. SEAL COURSE - A SEAL COURSE CONSISTING OF 3" CLASS "A" CONCRETE SHALL BE CONSTRUCTED ONLY WHERE SPECIFIED ON THE PLANS OR BY THE ENGINEER. NO REINFORCING SHALL BE PLACED UNTIL THE SEAL COURSE HAS GAINED SUFFICIENT STRENGTH TO PERMIT WORKING UPON IT WITHOUT DAMAGE.
7. BIDDING OF CULVERT - THE CULVERT SHALL BE BID AS A "LUMP SUM BID" WHICH SHALL INCLUDE THE FOLLOWING ITEMS: CLASS A-AE CONCRETE, REINFORCING STEEL, HAND EXCAVATION, AND ALUMINUM HAND RAIL. ALL OTHER ITEMS SHALL BE INCLUDED AS BID ITEMS.
8. EXTRA THICKNESS OF CONCRETE ON SLAB TO FORM CROWN AND THE CONSTRUCTION OF INTEGRAL CURB SHALL BE CONSIDERED INCIDENTAL TO COST OF R.C.B.C.
9. THE QUANTITIES SHOWN IN THE "BILL OF MATERIALS OR ITEMS" WHICH ARE INCLUDED IN THE "LUMP SUM BID" OF THE CULVERT ARE FOR "INFORMATION PURPOSES ONLY". THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE "QUANTITIES" AND THE ENGINEER ASSUMES NO RESPONSIBILITIES FOR THEIR ACCURACY. THE CONTRACTOR WILL HAVE THE FULL RESPONSIBILITY FOR PROVIDING ALL MATERIALS ON THE DETAILED PLANS NECESSARY TO COMPLETE THE PROJECT.

BAR SCHEDULE

BAR	SIZE	LENGTH	NO.	SHAPE	WEIGHT
a	#6	16'-9"	160		4025.36
a1	#6	16'-6"	158		3875.37
a2	#6	15'-9"	160		4506.00
b	#6	34'-0"	120		2725.34
c	#4	14'-0"	8		50.77
c1	#4	22'-0"	16		235.14
d	#4	7'-5"	24		112.22
d1	#4	7'-5"	76		376.70
e	#4	14'-10"	4		39.63
e1	#4	18'-9"	8		100.20
f	#6	0'-10"	12		38.12
f1	#4	12'-5"	12		32.71
h	#4	18'-10"	8		100.63
h1	#4	5'-2"	4		14.30
h2	#4	19'-0"	2		18.70
h3	#4	20'-0"	10		133.60
h4	#4	14'-0"	2		18.70
h5	#4	20'-0"	10		133.60
h6	#4	18'-9"	12		150.30
h7	#4	12'-9"	4		34.07
h8	#4	3'-7"	4		9.57
k	#4	2'-4"	24		31.35
l	#4	18'-9"	16		200.40
m	#4	39'-9"	8		212.93
n	#4	6'-10"	9		61.06
n1	#4	6'-6"	9		58.05
s	#4	3'-2"	82		173.64
v	#4	7'-1"	263		1243.86
v1	#4	6'-2½"	74		210.75
v2	#4	4'-6"	24		69.02
v3	#4	5'-4"	24		85.95
v4	#4	6'-8"	20		80.57
v5	#4	6'-10"	8		36.50
v6	#4	2'-0"	52		69.67
v7	#4	4'-0"	16		42.75
v8	#4	5'-3"	24		84.17
v9	#4	6'-8"	12		53.37
w	#4	3'-0"	4		8.01
w1	#4	4'-0"	4		10.69



* Holes: 11/16" square holes in post under head and 11/16" round holes under nuts for ⅝" ø x 5½" carriage bolts with hex nuts.

DETAIL-ALUMINUM RAILING

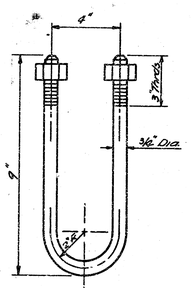
NO SCALE

NOTE: Aluminum Handrail

Aluminum posts shall be Reynolds Aluminum Highway Products Bridge Railing System No 2R19A or equal.

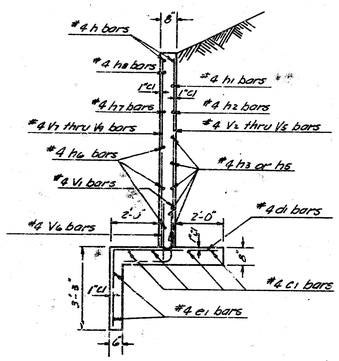
Top & bottom rails shall be 3½" O.D. x 9/16" wall tube of 6063-T6 Aluminum.

Aluminum shims between concrete and post base may be used. The space below posts shall be thoroughly caulked with Alumilastic compound or other approved material.



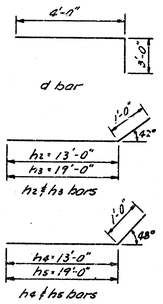
GALVANIZED U BOLT

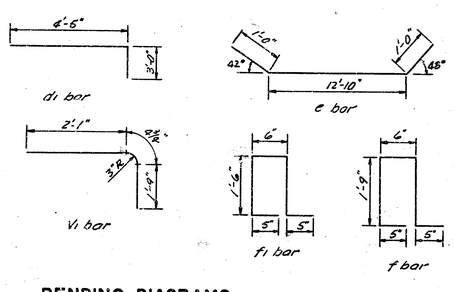
NO SCALE

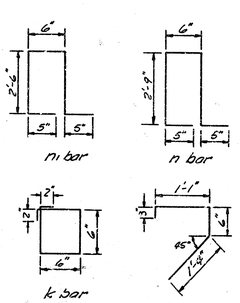


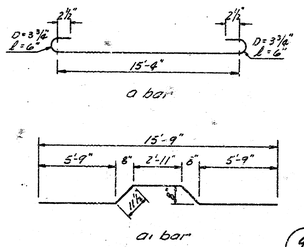
SECTION B-B

NO SCALE









BENDING DIAGRAMS NO SCALE

ALL DIMENSIONS OUT TO CUT OF BARS

BILL OF MATERIALS

	ITEMS	QUANTITY	UNIT
Lump Sum Bid	Class A-AE Concrete	132.1	C.Y.
	Reinforcing Steel	19,440.1	LBS.
	Hand Excavation	14.5	C.Y.
	Aluminum Handrail	32.0	L.F.
	Class A Concrete - Seal Course	9.8	C.Y.
Bid Items	Excavation	121.9	C.Y.
	Compacted Fill	98.4	C.Y.
	Riprap - Type 3	376.2	S.Y.

2 - 7'x5.5' R.C.B.C.

MAINSGATE ROAD

WOODLAWN PLACE 5th ADDn

4/14

PROJ. NO. 472 76 245 80874 000 000 004

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