B.M. 158.56 SE corner of S wingwall under fence on W℞ Edgemoor, 152' N of N℞ Lexington Rd.

NOTE

FIELD ENGINEER COUNT TREES REMOVED & TURN IN CARD

NOTE

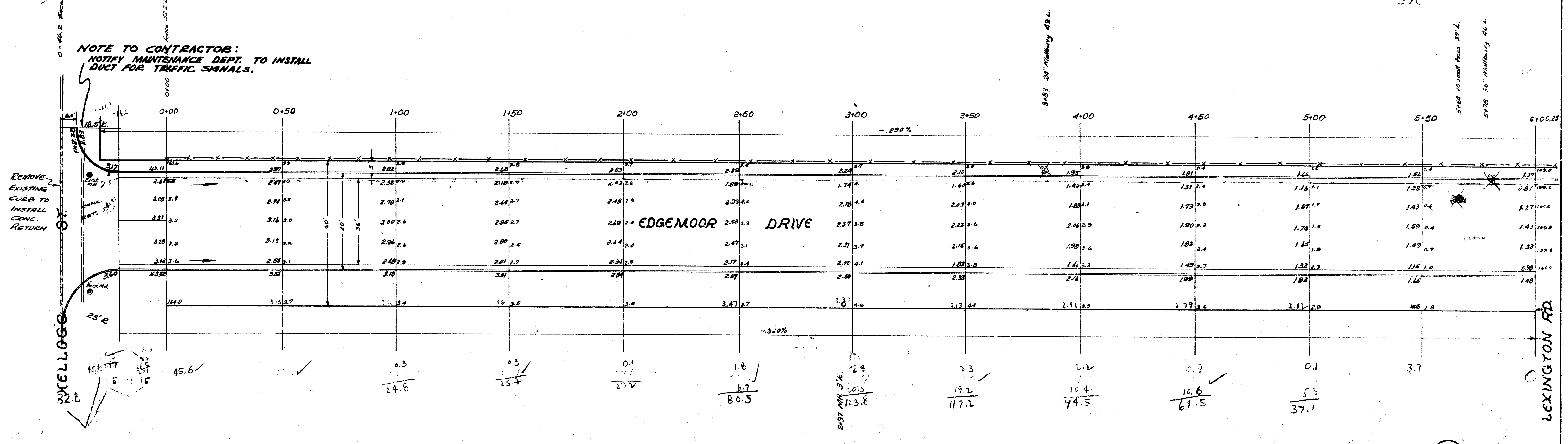
VET'S ADMIN. TO REMOVE & REPLACE FENCE
SEE SHEETS 9 & 10 FOR FILL ON VET'S ADMIN. PROPERTY

Note: All fill sections to be excavated to a depth of 6" prior to filling.

EARTHWORK

CITY		PROP.	
CUT	FILL	CUT	FILL
0.9 26.7 27.3 2.8 30.6 YDS EXC	69.1 YDS [illegible] TOTAL SAND FILL	1078.7 455.6 1534.5 186.5 1721.0 YDS EXC	1245.7 YDS [illegible] [illegible] SAND FILL

NOTE TO CONTRACTOR:
NOTIFY MAINTENANCE DEPT. TO INSTALL DUCT FOR TRAFFIC SIGNALS.

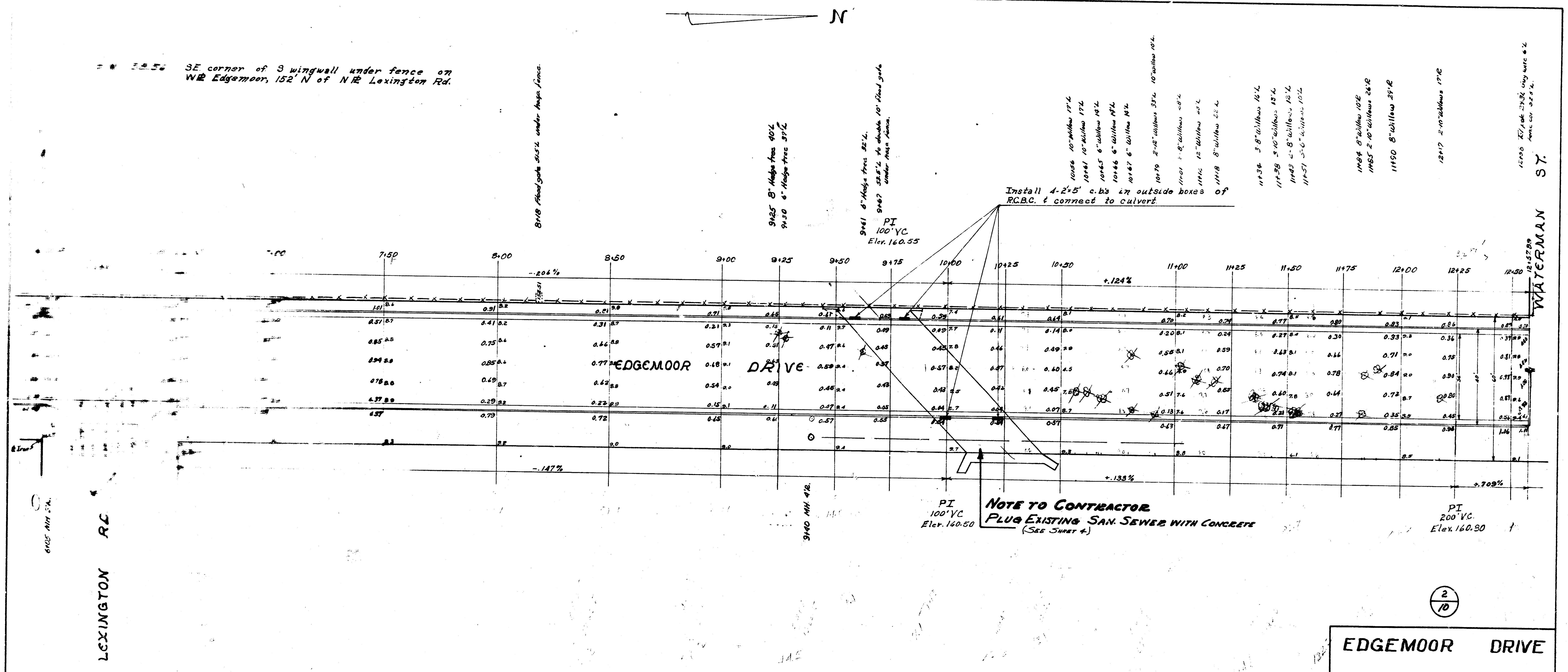

N
0-46.2 Back Curb
0+00 Fence 52.2'L
3+83 24" Mulberry 49'L
5+64 10 small trees 37'L
5+78 36" Mulberry 46'L
REMOVE EXISTING CURB TO INSTALL CONC. RETURN
18.5'R
25'R
0+00
0+50
1+00
1+50
2+00
2+50
3+00
3+50
4+00
4+50
5+00
5+50
6+00.25
-.290%
-.320%
40'
36'
EDGEMOOR DRIVE
KELLOGG ST.
LEXINGTON RD.
45.6
0.3
24.6
0.3
15.4
0.1
27.2
1.8
6.7
80.5
2.9
20.3
123.8
2.3
19.2
117.2
2.2
10.4
94.5
0.9
10.6
69.5
0.1
5.3
37.1
3.7

1/10

Revised west return, Edgemoor Dr. & Kellogg. 18 Feb 1953

B. E. SMITH LICENSED 436

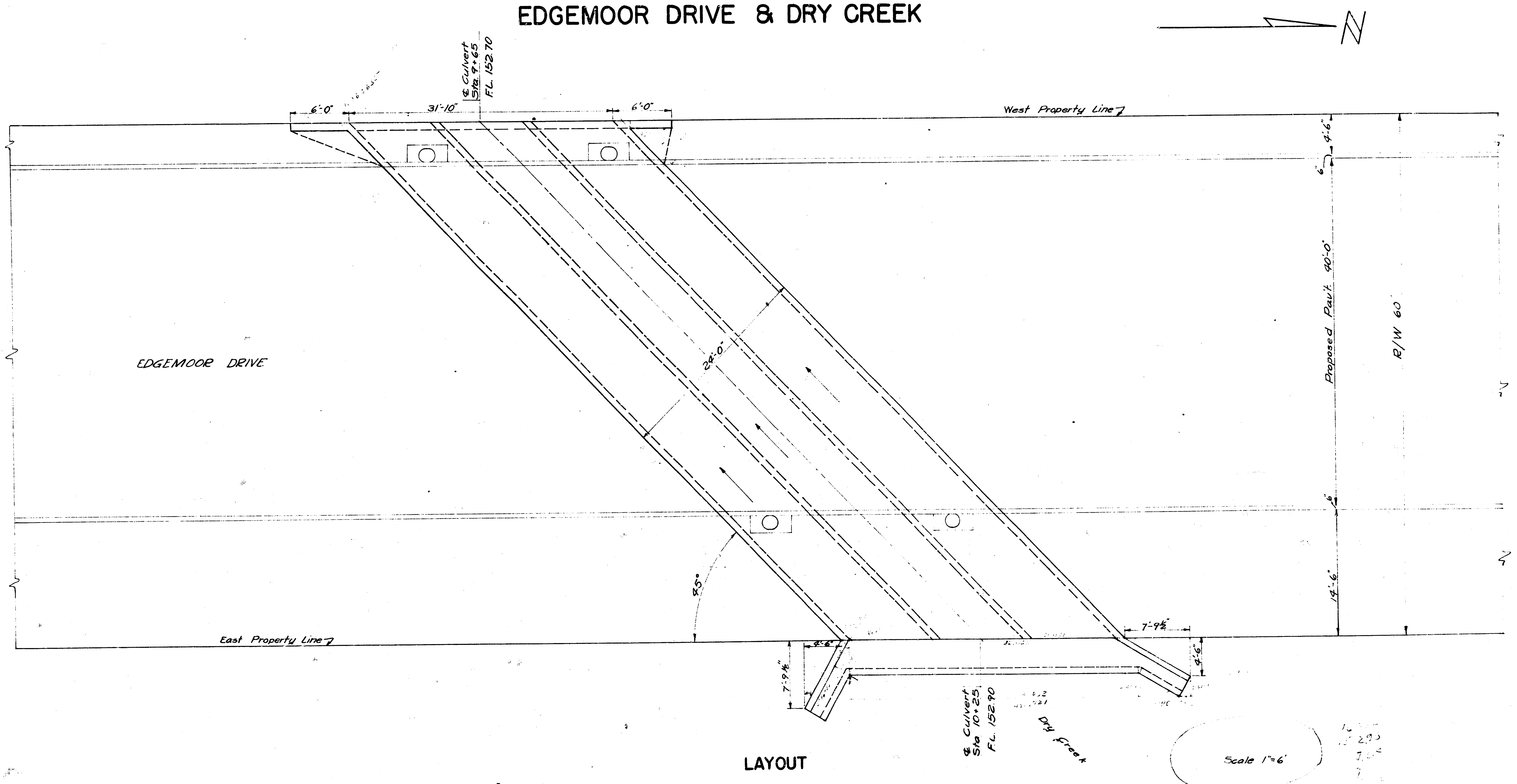
EDGEMOOR DRIVE
NL KELLOGG - SL WATERMAN
36-2-40 A.C.
City of Wichita, Kansas
L.K. White City Engineer
October, 1950 Proj. No. C10-101


N
SE corner of S wingwall under fence on W℞ Edgemoor, 152' N of N℞ Lexington Rd.
8+18 Flood gate 51.5'L under hogs fence.
9+25 8" Hedge tree 40'L
9+30 6" Hedge tree 37'L
9+61 6" Hedge tree 32'L.
9+67 53.5'L to double 10' flood gate under hogs fence.
10+56 10" Willow 17'L
10+61 10" Willow 17'L
10+65 6" Willow 14'L
10+66 6" Willow 14'L
10+67 6" Willow 14'L
10+79 2-12" Willows 33'L 10" Willow 10'L
11+01 8" Willow 28'L
11+12 12" Willow 23'L
11+18 8" Willow 22'L
11+34 3-8" Willows 16'L
11+38 3-10" Willows 13'L
11+43 2-8" Willows 12'L
11+51 3-6" Willows 10'L
11+84 8" Willow 10'R
11+85 2-10" Willows 26'R
11+90 8" Willow 29'R
12+17 2-10" Willows 17'R
12+56 Tel. pole 29.3'L Guy wire 6'L fence cor. 32.5'L
Install 4-2'×5' c.b.'s in outside boxes of R.C.B.C. ¢ connect to culvert
PI
100' VC
Elev. 160.55
7+50
8+00
8+50
9+00
9+25
9+50
9+75
10+00
10+25
10+50
11+00
11+25
11+50
11+75
12+00
12+25
12+50
12+57.89
-.206%
+.124%
-.147%
+.133%
+.709%
EDGEMOOR DRIVE
WATERMAN ST.
LEXINGTON RD
9+40 MH. 4'R.
PI
100' VC
Elev. 160.50
NOTE TO CONTRACTOR
PLUG EXISTING SAN. SEWER WITH CONCRETE
(SEE SHEET 4)
PI
200' VC.
Elev. 160.80

2/10

EDGEMOOR DRIVE

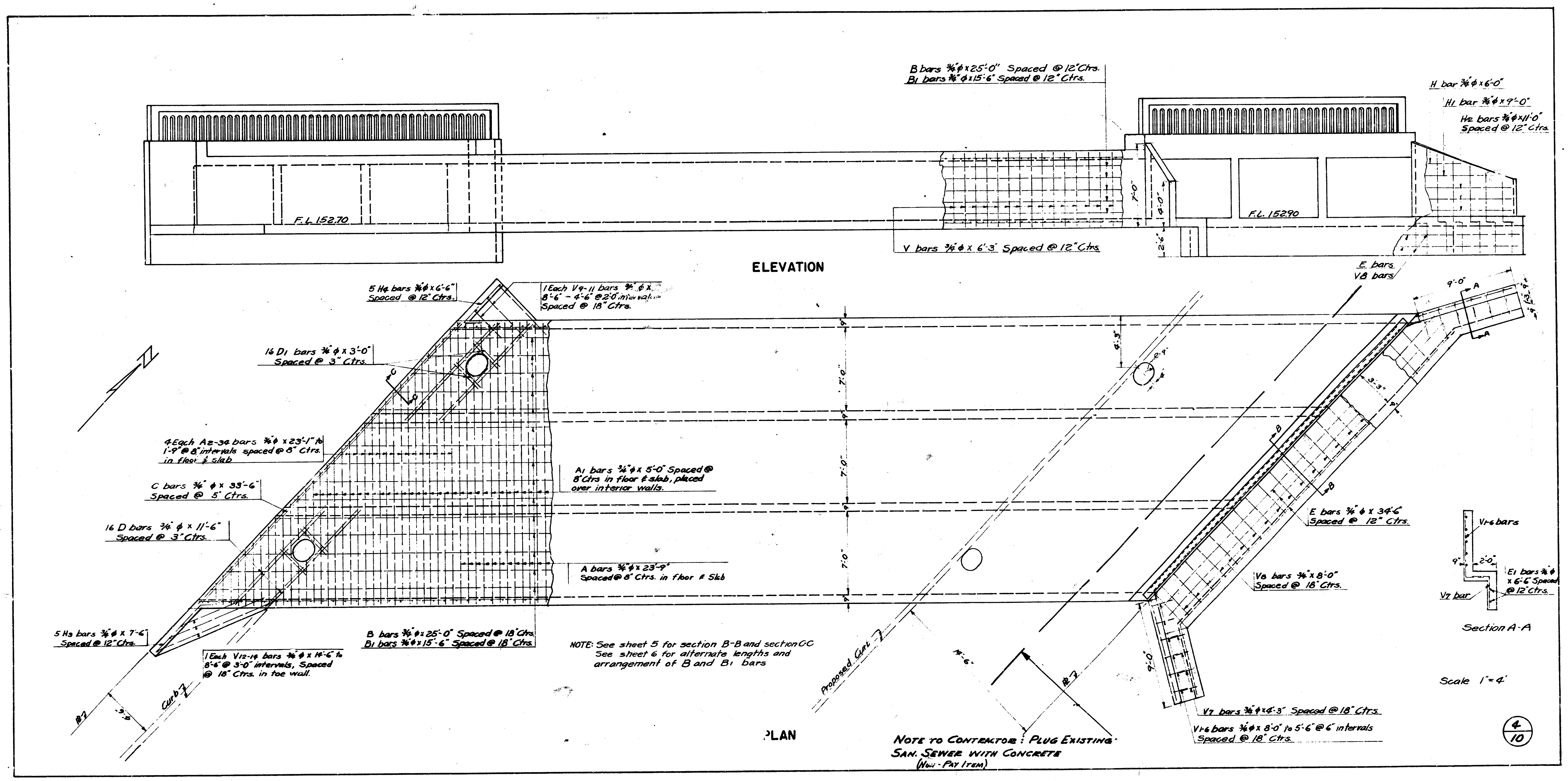
REINFORCED CONCRETE BOX CULVERT
EDGEMOOR DRIVE & DRY CREEK


N
℄ Culvert
Sta. 9+65
F.L. 152.70
6'-0"
31'-10"
6'-0"
West Property Line
4'-6"
6"
Proposed Pav't 40'-0"
6"
14'-6"
R/W 60'
EDGEMOOR DRIVE
24'-0"
45°
East Property Line
4'-6"
7'-9½"
7'-9½"
4'-6"
℄ Culvert
Sta 10+25
F.L. 152.90
Dry Creek

LAYOUT

Scale 1"=6'

3/10


B bars ¾"ϕ x 25'-0" Spaced @ 12" Ctrs.
B1 bars ¾"ϕ x 15'-6" Spaced @ 12" Ctrs.
H bar ¾"ϕ x 6'-0"
H1 bar ¾"ϕ x 9'-0"
H2 bars ¾"ϕ x 11'-0" Spaced @ 12" Ctrs.
F.L. 152.70
F.L. 152.90
7'-0"
4'-0"
2'-6"
V bars ¾"ϕ x 6'-3" Spaced @ 12" Ctrs.
E bars
V8 bars
5 H4 bars ¾"ϕ x 6'-6" Spaced @ 12" Ctrs.
1 Each V9-11 bars ¾"ϕ x 8'-6" - 4'-6" @ 2'-0" intervals Spaced @ 18" Ctrs.
16 D1 bars ¾"ϕ x 3'-0" Spaced @ 3" Ctrs.
C
4 Each A2-34 bars ¾"ϕ x 23'-1" to 1'-9" @ 8" intervals spaced @ 8" Ctrs. in floor & slab
C bars ¾"ϕ x 33'-6" Spaced @ 5" Ctrs.
16 D bars ¾"ϕ x 11'-6" Spaced @ 3" Ctrs.
5 H3 bars ¾"ϕ x 7'-6" Spaced @ 12" Ctrs.
1 Each V12-14 bars ¾"ϕ x 14'-6" to 8'-6" @ 3'-0" intervals, Spaced @ 18" Ctrs. in toe wall.
B bars ¾"ϕ x 25'-0" Spaced @ 18" Ctrs.
B1 bars ¾"ϕ x 15'-6" Spaced @ 18" Ctrs.
℄
3'-3"
Curb ℄
A1 bars ¾"ϕ x 5'-0" Spaced @ 8" Ctrs in floor & slab, placed over interior walls.
A bars ¾"ϕ x 23'-9" Spaced @ 8" Ctrs. in floor & Slab
7'-0"
9"
4'-3"
R 9"
4"
Proposed Curb ℄
12'-6"
℄
9'-0"
A
1'-3"
3'-3"
B
E bars ¾"ϕ x 34'-6" Spaced @ 12" Ctrs.
V8 bars ¾" x 8'-0" Spaced @ 18" Ctrs.
V7 bars ¾"ϕ x 4'-3" Spaced @ 18" Ctrs.
V1-6 bars ¾"ϕ x 8'-0" to 5'-6" @ 6" intervals Spaced @ 18" Ctrs.
V1-6 bars
2'-0"
E1 bars ¾"ϕ x 6'-6" Spaced @ 12" Ctrs.
V7 bar

ELEVATION

PLAN

Section A-A

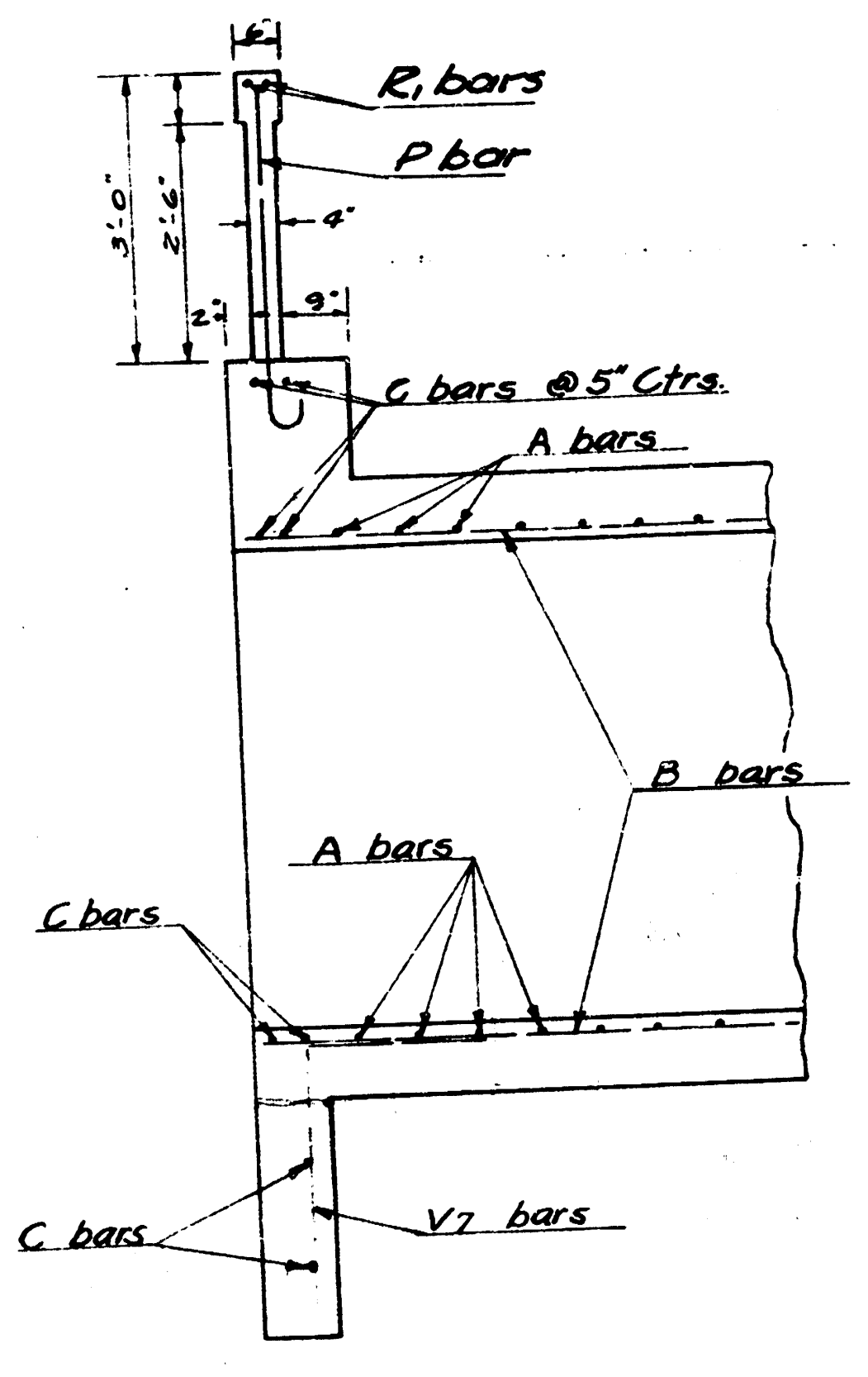
Scale 1" = 4'

NOTE: See sheet 5 for section B-B and section C-C
See sheet 6 for alternate lengths and arrangement of B and B1 bars

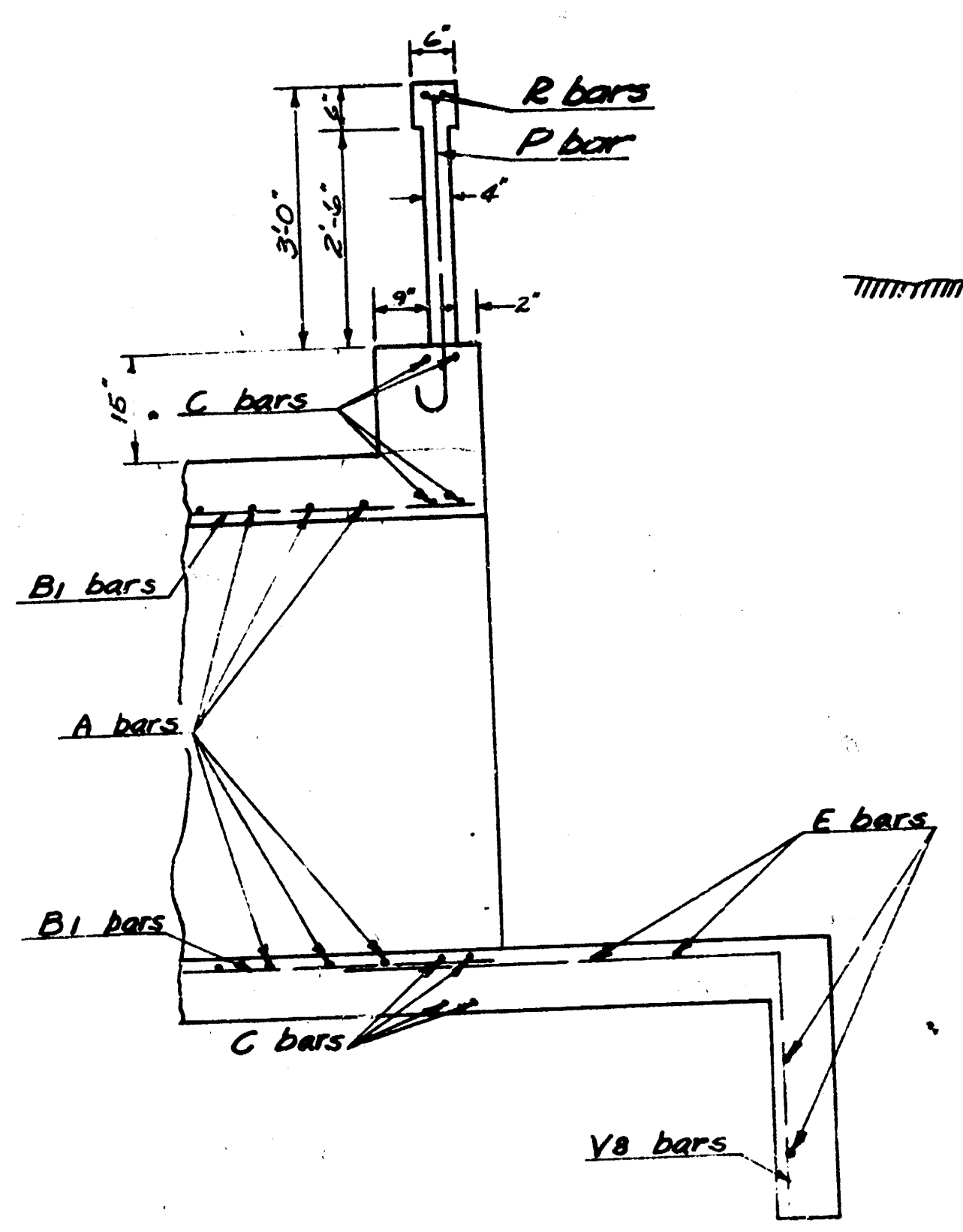
NOTE TO CONTRACTOR: PLUG EXISTING SAN. SEWER WITH CONCRETE
(NON-PAY ITEM)

4/10

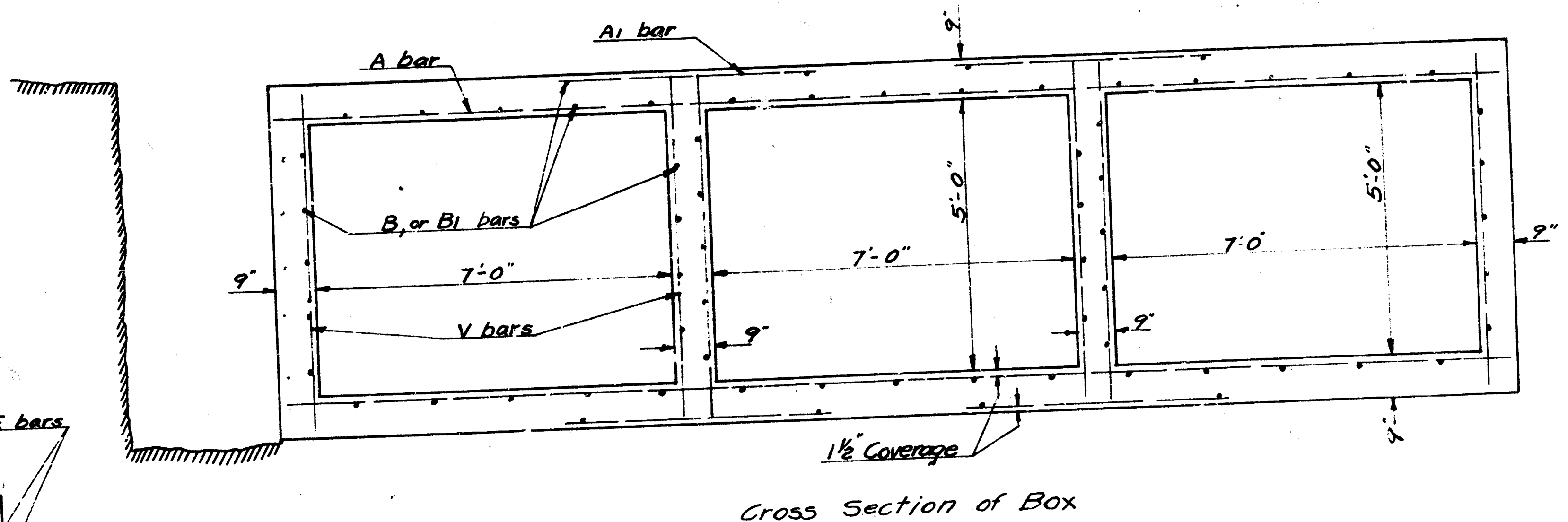
Note: General excavation to be carried 3' beyond limits of box.
Backfill to be carried to original ground elevation
Backfill to be sand stabilized and mechanically hand tamped


6"
R, bars
P bar
3'-0"
2'-6"
4"
2"
9"
C bars @ 5" Ctrs.
A bars
B bars
A bars
C bars
C bars
V7 bars

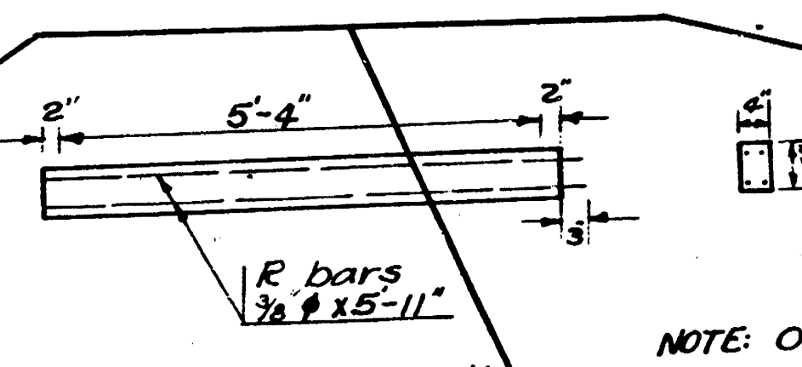
Section C-C


6"
R bars
P bar
6"
3'-0"
2'-6"
4"
9"
2"
15"
C bars
B1 bars
A bars
B1 bars
C bars
E bars
V8 bars

Section B-B

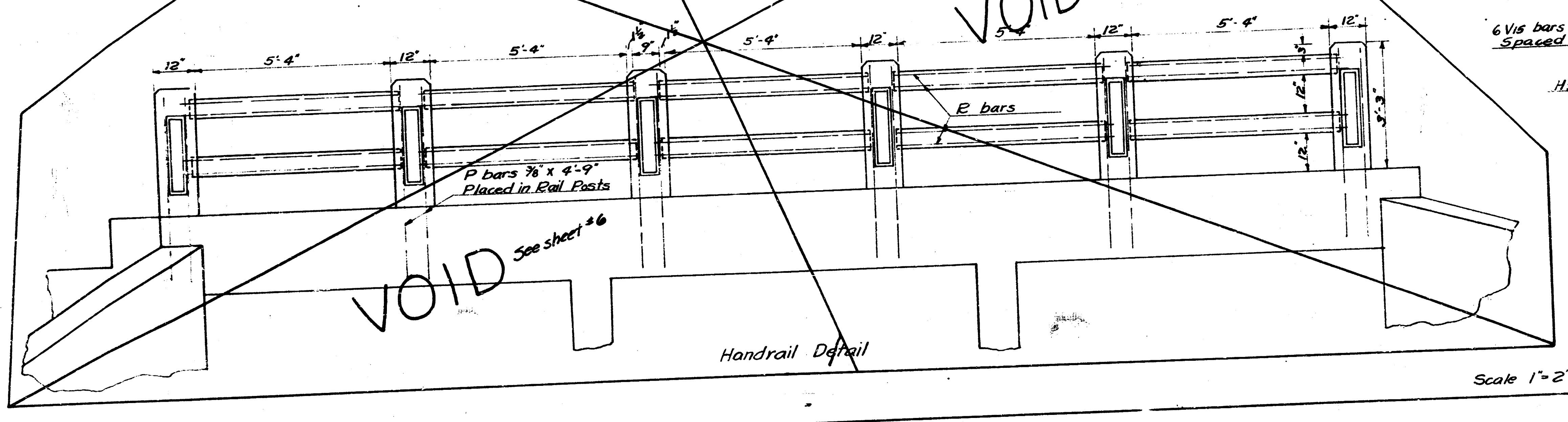

A bar
A1 bar
9"
B, or B1 bars
9"
7'-0"
V bars
7'-0"
5'-0"
9"
7'-0"
5'-0"
9"
9"
9"
1½" Coverage

Cross Section of Box


2"
5'-4"
2"
3"
4"
6"
R bars
⅜" ϕ x 5'-11"

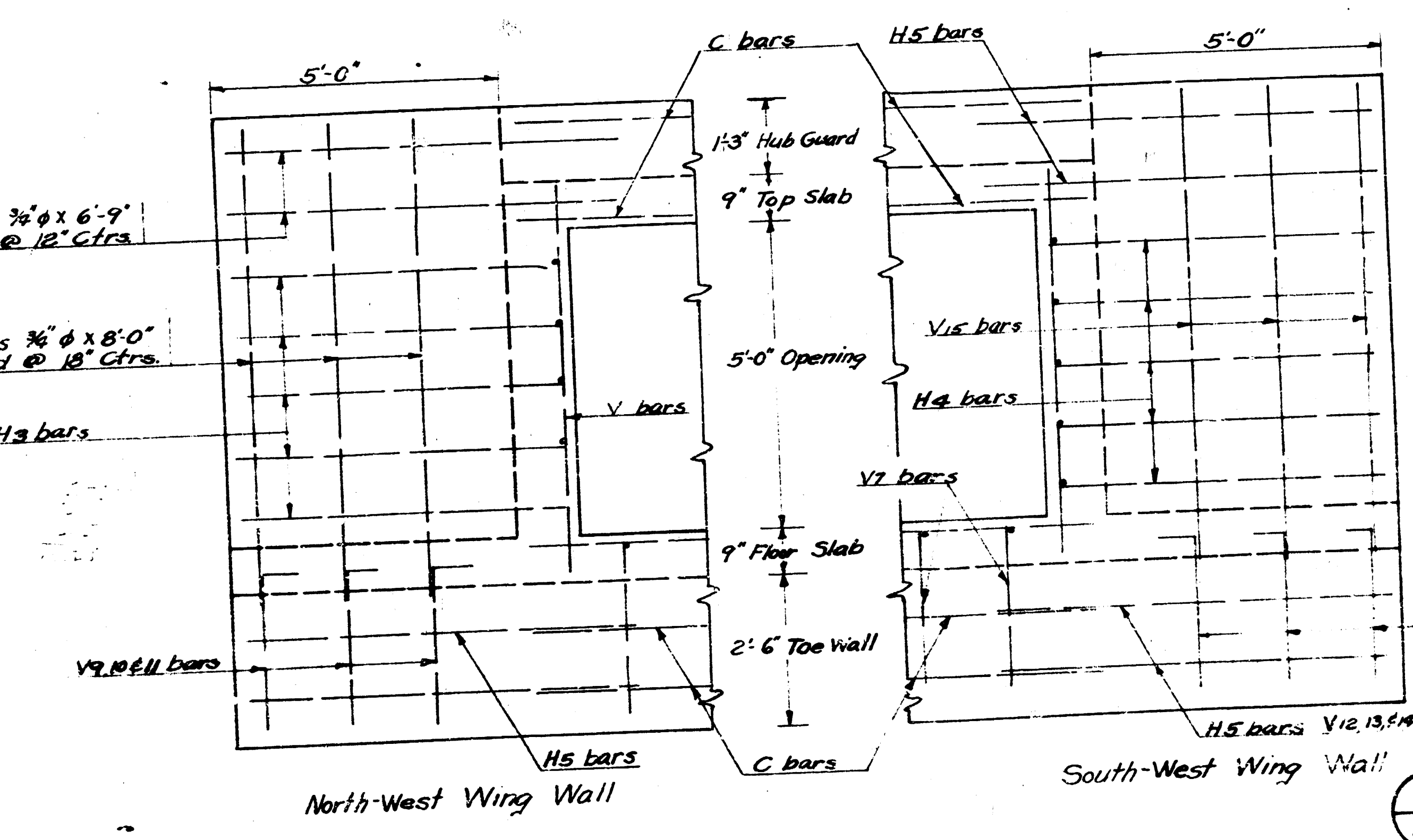
Precast Rail

NOTE: One end of each precast rail to be wrapped with tar paper to allow for expansion.
Class D concrete to be used in handrail posts and rails.


VOID See sheet #6
12"
5'-4"
12"
5'-4"
1½"
9"
1½"
5'-4"
12"
5'-4"
12"
5'-4"
12"
3"
12"
12"
3'-3"
R bars
P bars ⅜" x 4'-9"
Placed in Rail Posts
VOID See sheet #6

Handrail Detail

Scale 1"=2'

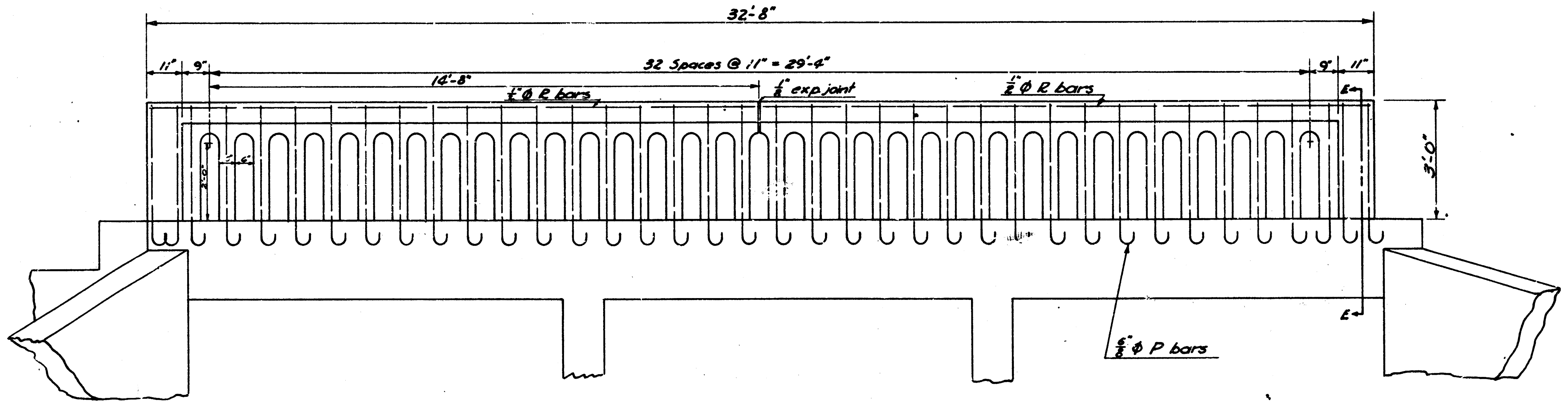

8 H5 bars ¾" ϕ x 6'-9"
Spaced @ 12" Ctrs.
6 V15 bars ¾" ϕ x 8'-0"
Spaced @ 18" Ctrs.
H3 bars
V9,10 & 11 bars
5'-0"
C bars
H5 bars
5'-0"
1'-3" Hub Guard
9" Top Slab
5'-0" Opening
9" Floor Slab
2'-6" Toe Wall
V bars
V15 bars
H4 bars
V7 bars
H5 bars
C bars
H5 bars
V12, 13, & 14 bars

North-West Wing Wall

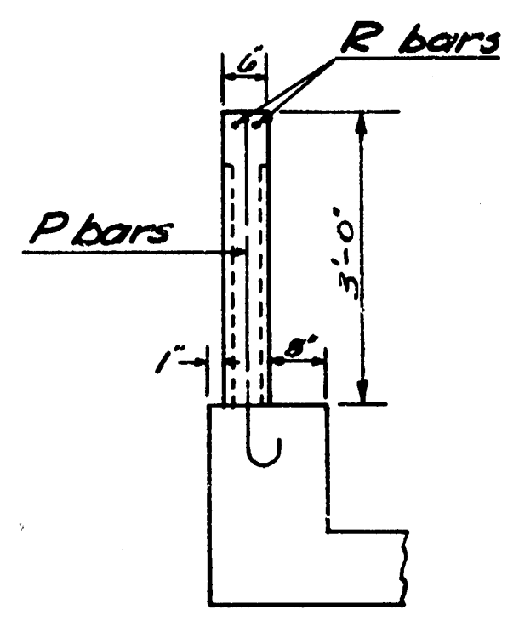
South-West Wing Wall

West End Elevation

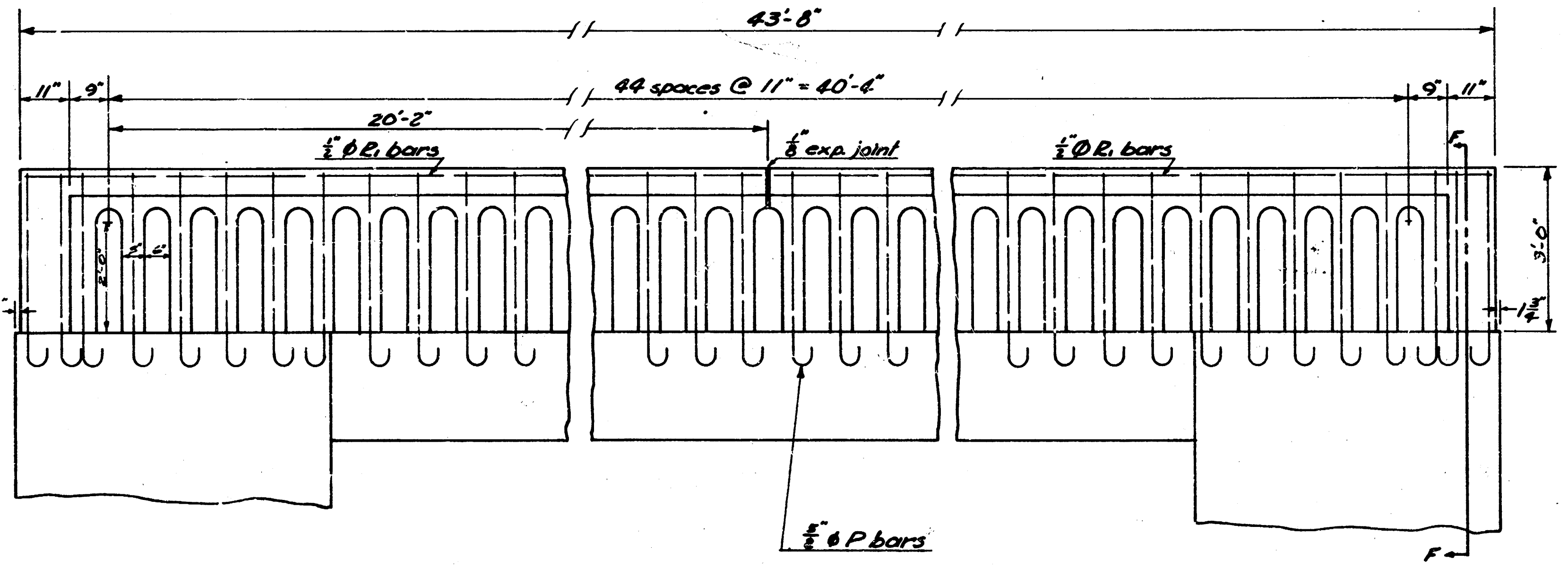
5
10


32'-8"
11"
9"
32 Spaces @ 11" = 29'-4"
9"
11"
14'-8"
½" ϕ R bars
⅛" exp joint
½" ϕ R bars
2'-0"
5" 6"
3'-0"
E
E
⅝" ϕ P bars

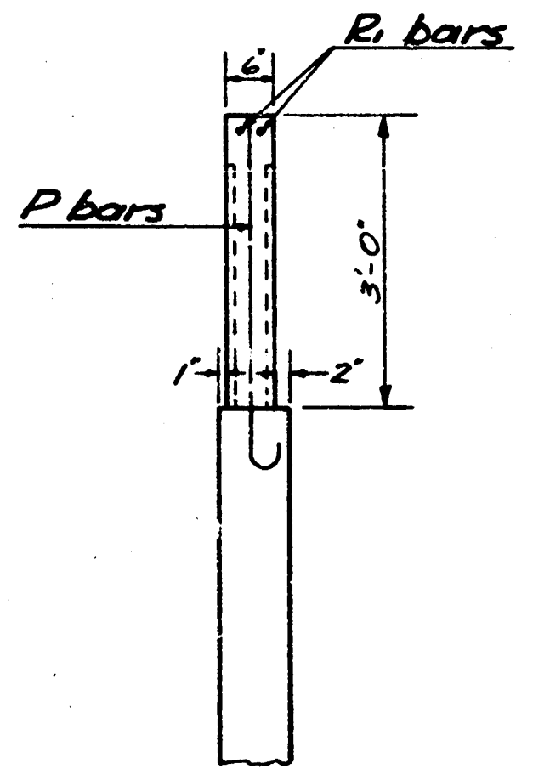
DETAIL OF HANDRAIL E.S.
Scale: ½" = 1'-0"


R bars
6"
P bars
3'-0"
1"
8"

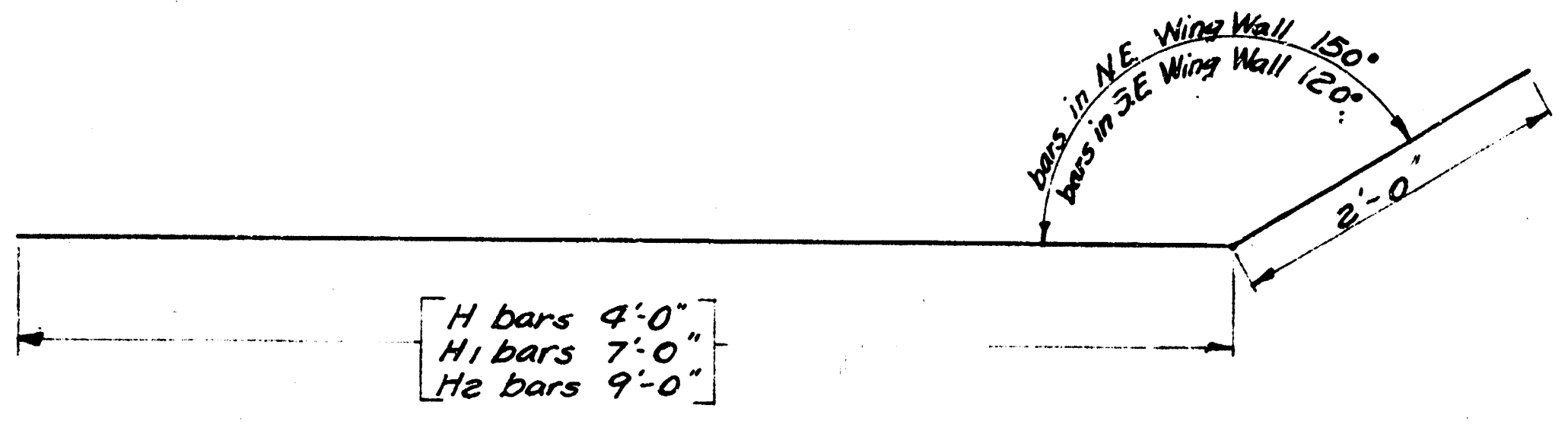
SECTION E-E
Scale: ½" = 1'-0"

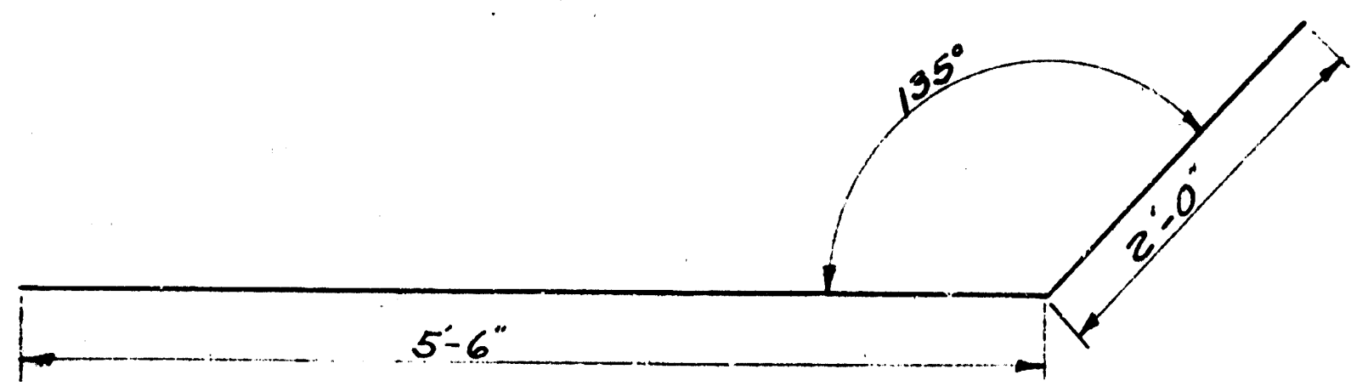

43'-8"
11"
9"
44 spaces @ 11" = 40'-4"
9"
11"
20'-2"
½" ϕ R₁ bars
⅛" exp. joint
½" ϕ R₁ bars
F
2'-0"
5" 6"
1¾"
1¾"
3'-0"
⅝" ϕ P bars
F

DETAIL OF HANDRAIL W.S.
Scale: ½" = 1'-0"

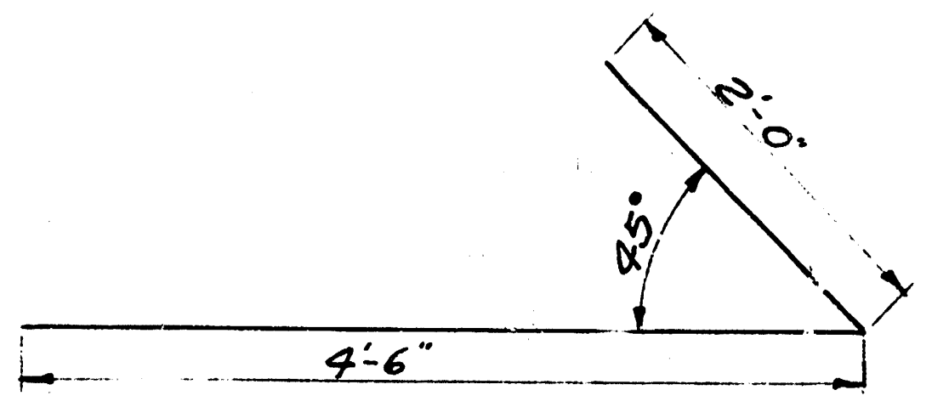

R₁ bars
6"
P bars
3'-0"
1"
2"

SECTION F-F
Scale: ½" = 1'-0"

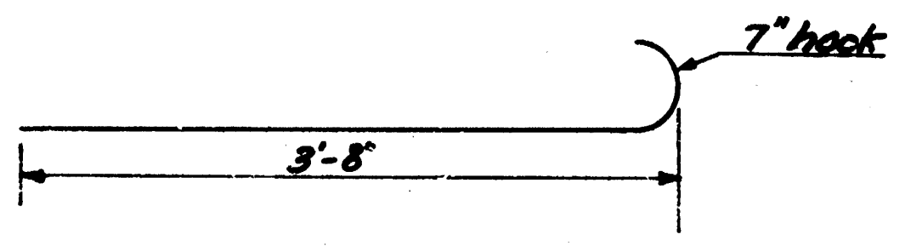

bars in N.E. Wing Wall 150°
bars in S.E. Wing Wall 120°
2'-0"
H bars 4'-0"
H_1 bars 7'-0"
H_2 bars 9'-0"



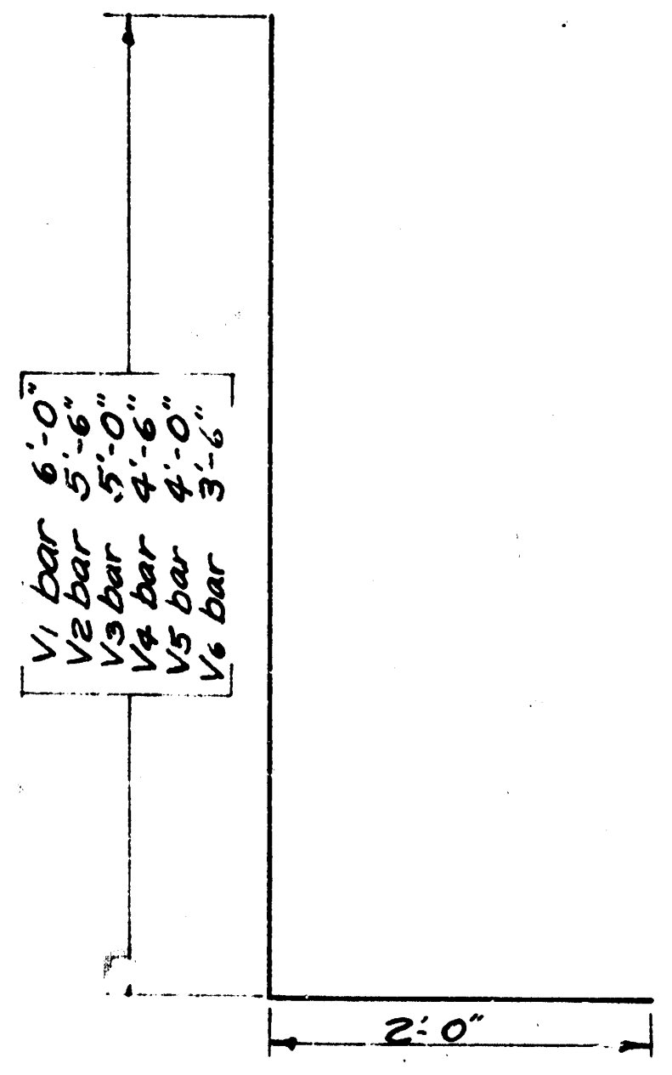
H_3 bars



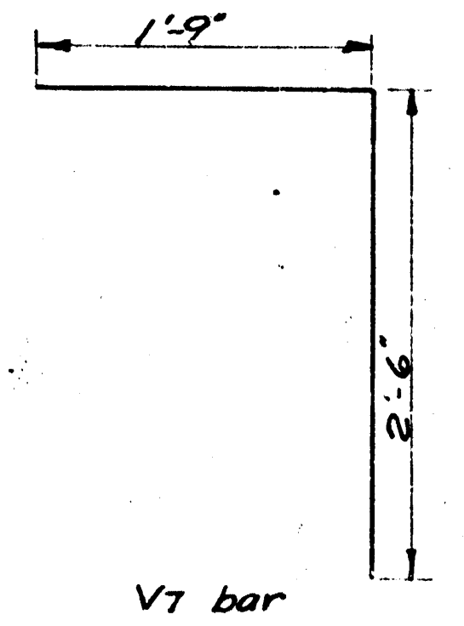
H_4 bars



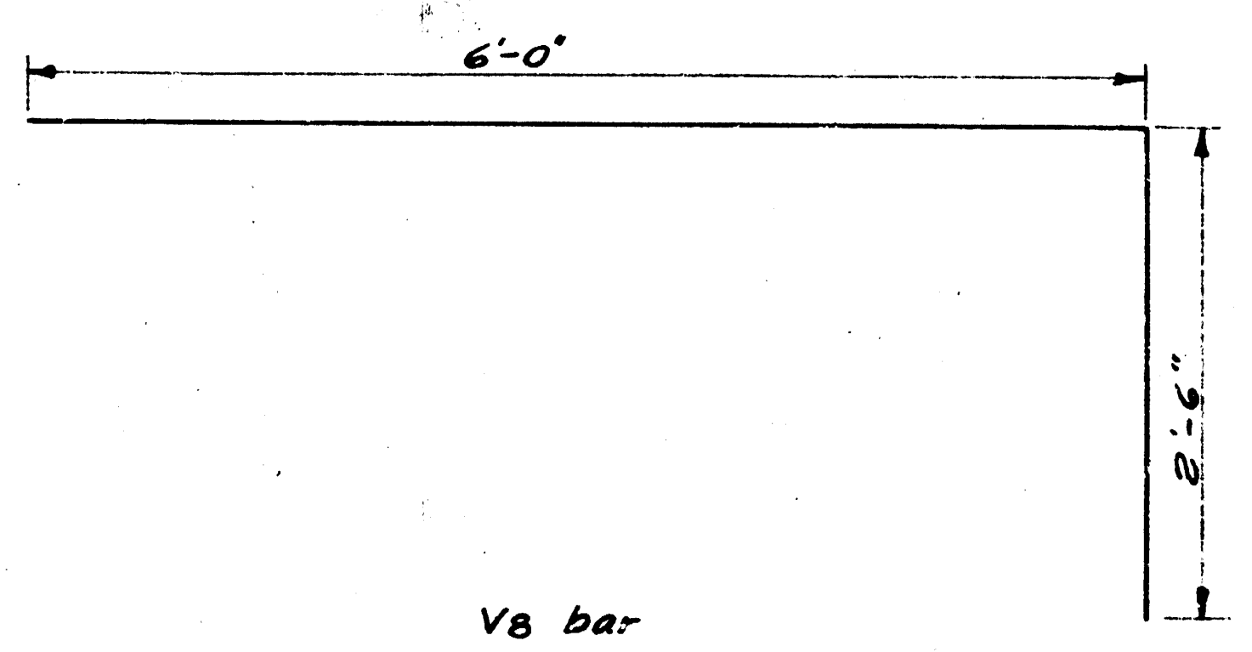
P bar


V_1 bar 6'-0"
V_2 bar 5'-6"
V_3 bar 5'-0"
V_4 bar 4'-6"
V_5 bar 4'-0"
V_6 bar 3'-6"
2'-0"

V_{1-6} bars

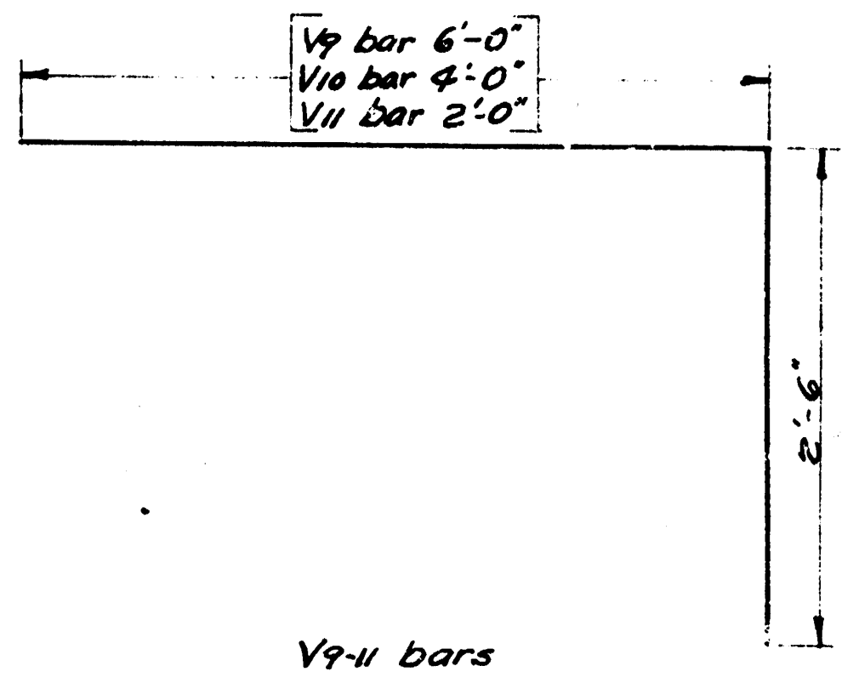


V_7 bar

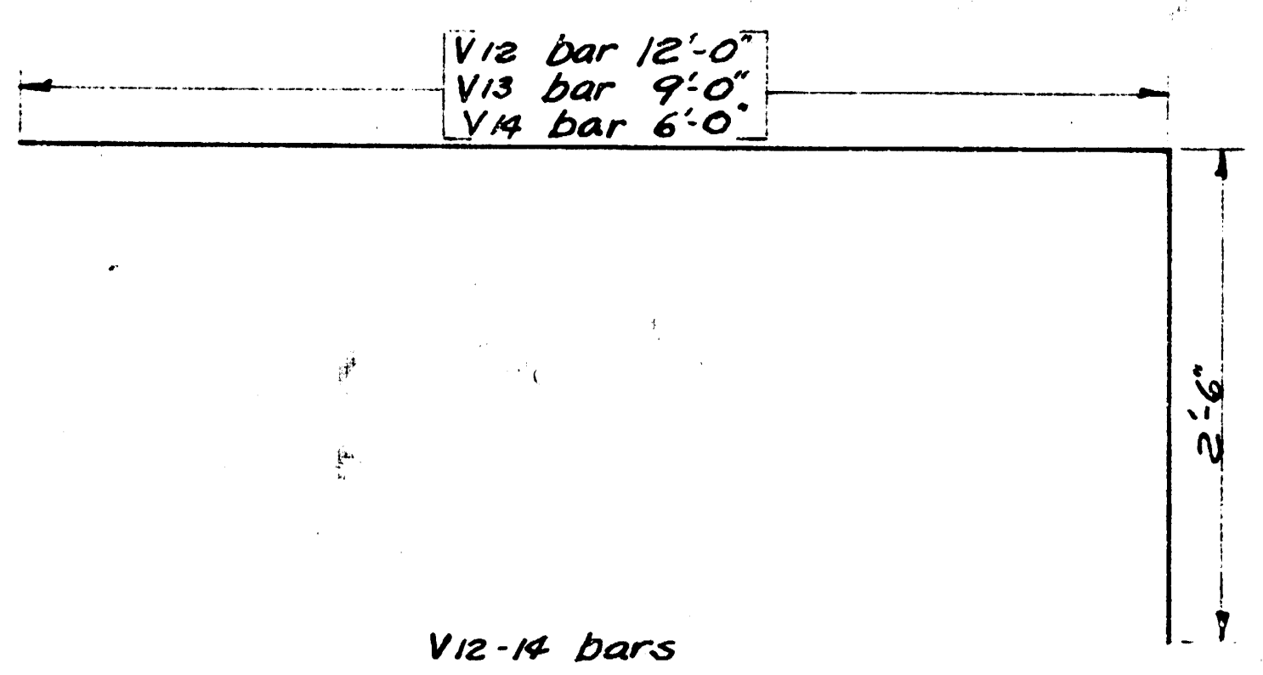


V_8 bar

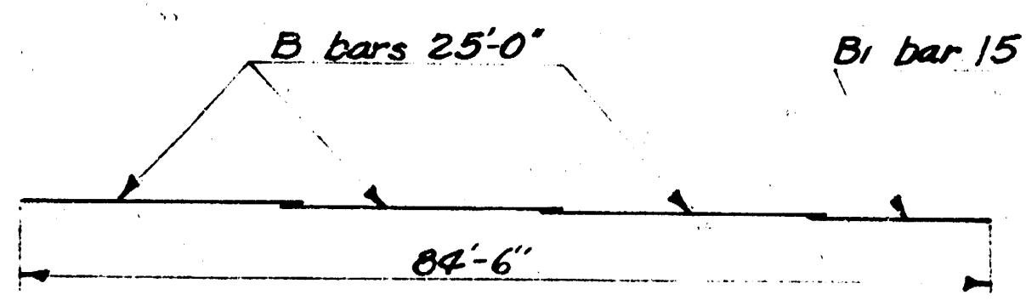
Bar Bending Diagrams


V_9 bar 6'-0"
V_{10} bar 4'-0"
V_{11} bar 2'-0"
2'-6"

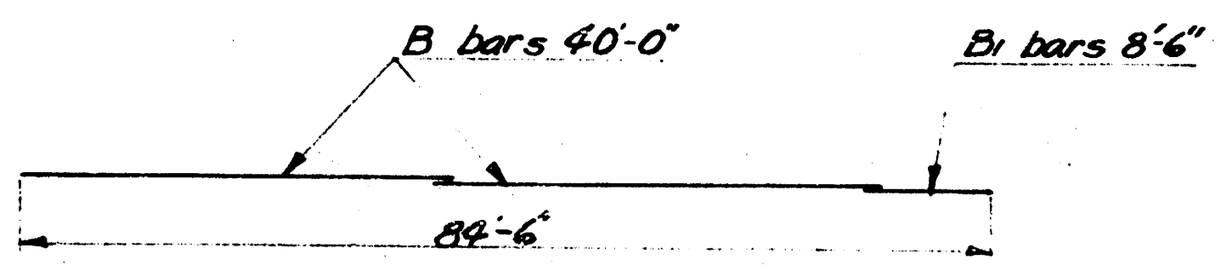
V_{9-11} bars


V_{12} bar 12'-0"
V_{13} bar 9'-0"
V_{14} bar 6'-0"
2'-6"

V_{12-14} bars


B bars 25'-0"
B_1 bar 15'-6"
84'-6"

B & B_1 bar arrangement if 25' bar lengths are used.


B bars 40'-0"
B_1 bars 8'-6"
84'-6"

B & B_1 bar arrangement if 40' bar lengths are used.

Minimum bar lap shall be 2'-0"

* Alternate B & B_1 Bar Arrangements

STEEL SCHEDULE

BAR	SIZE	LENGTH	NUMBER	LIN. FT.	SHAPE
A	3/4" ϕ	23'-9"	184	4370	—
A_1	3/4" ϕ	5'-0"	480	2400	—
A_{2-34}	3/4" ϕ	23'-1" to 1'-9" @ 8" intervals	4 each	1639	— —
B *	3/4" ϕ	25'-0"	198	4950	—
B_1 *	3/4" ϕ	15'-6"	66	1023	—
C	3/4" ϕ	33'-6"	16	536	—
D	3/4" ϕ	11'-6"	16	184	—
D_1	3/4" ϕ	3'-0"	16	48	—
E	3/4" ϕ	34'-6"	4	138	—
E_1	3/4" ϕ	6'-6"	4	26	—
H	3/4" ϕ	6'-0"	2	12	—/
H_1	3/4" ϕ	9'-0"	2	18	—/
H_2	3/4" ϕ	11'-0"	6	66	—/
H_3	3/4" ϕ	7'-6"	5	37.5	—/
H_4	3/4" ϕ	6'-6"	5	32.5	—\
H_5	3/4" ϕ	6'-9"	8	54	—
V	3/4" ϕ	6'-3"	504	3150	|
V_{1-6}	3/4" ϕ	8'-0" to 5'-6" @ 6" intervals	2 each	81	L
V_7	3/4" ϕ	4'-3"	24	102	┐
V_8	3/4" ϕ	8'-0"	21	168	┐
V_{9-11}	3/4" ϕ	8'-6" to 4'-6" @ 2'-0" intervals	1 each	19.5	┐
V_{12-14}	3/4" ϕ	14'-6" to 8'-6" @ 3'-0" intervals	1 each	34.5	┐
V_{15}	3/4" ϕ	8'-0"	6	48	|
P	5/8" ϕ	4'-3"	88	374	⌡
R	1/2" ϕ	16'-0"	4	64	—
R_1	1/2" ϕ	21'-6"	4	86	—

BILL OF MATERIALS

ITEM	QUANTITY	UNITS
Reinforcing Steel	29,233	Lbs.
Class A Concrete	180.5	Cu. Yds.
Hand Rail	76.33	Lin. ft.
General Excavation	~~862~~	Cu. Yds.
Hand Excavation	27	Cu. Yds.
Compaction of Back Fill	117	Cu. Yds.