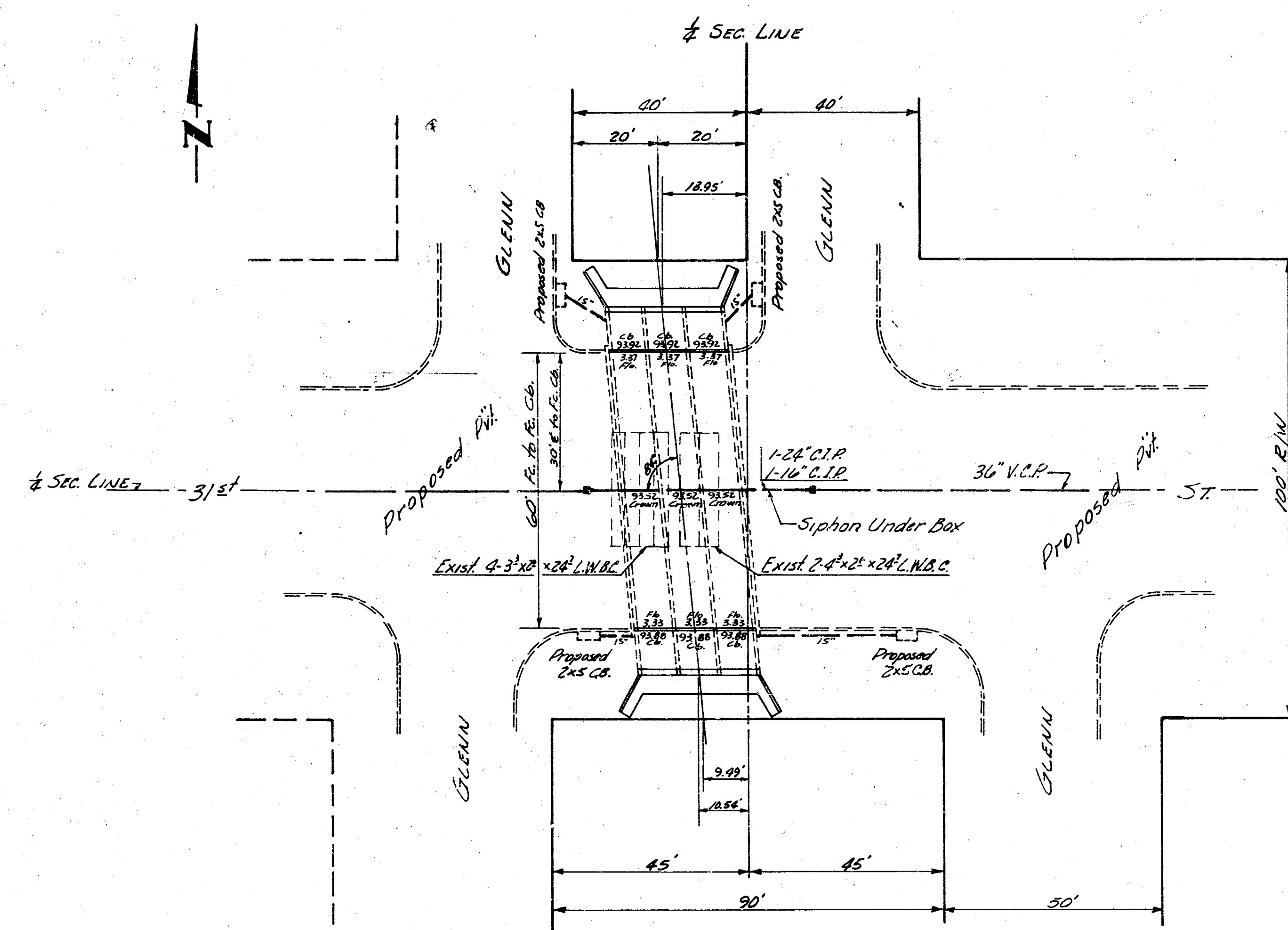


B.M. 95.67 STANDARD N.E. COR. GLENN & 31ST ST. SO.
 B.M. 97.36 DOUBLE SPIKE INSIDE TELE. POLE S.E. COR. MERIDIAN & 31ST ST. SO. (B.M. 43 ON W.S. SEWER)

3-8'x4' R.C.B. GLENN & 31ST ST. SO. PROJ. NO. C23-37



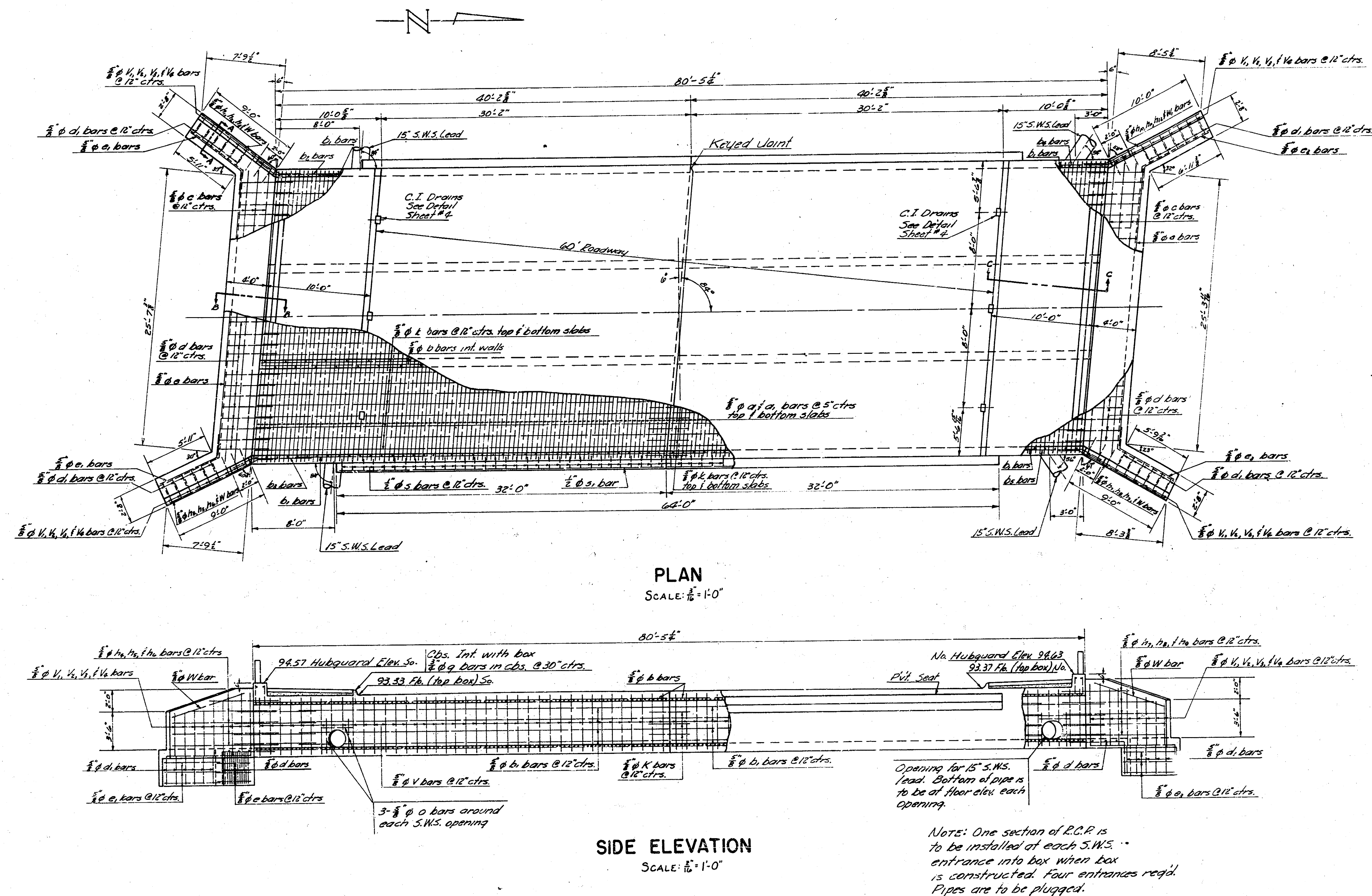
PLAN LAYOUT
 SCALE: 1" = 20'

1
6

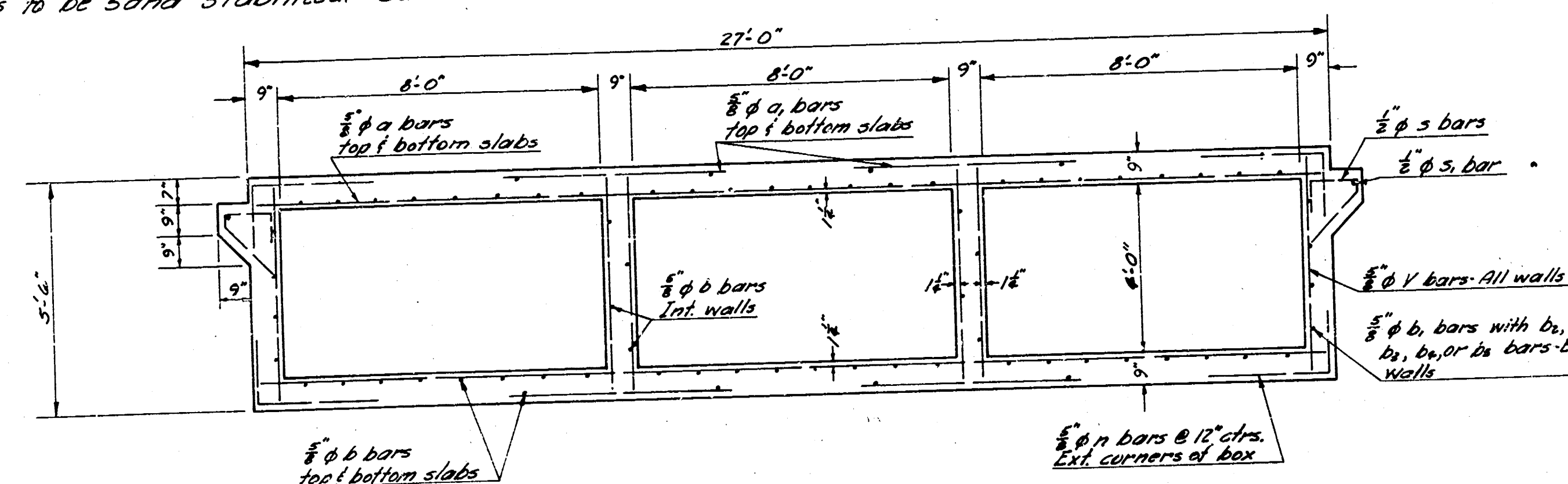


REINF. CONC. BOX CULVERT
 @ BOX APPROX. STA. 163+82.94
 SAN. SEWER #22
 CITY OF WICHITA, KANSAS
 B.E. SMITH CITY ENGINEER
 SEPT. 1954 PROJ. NO. C23-37

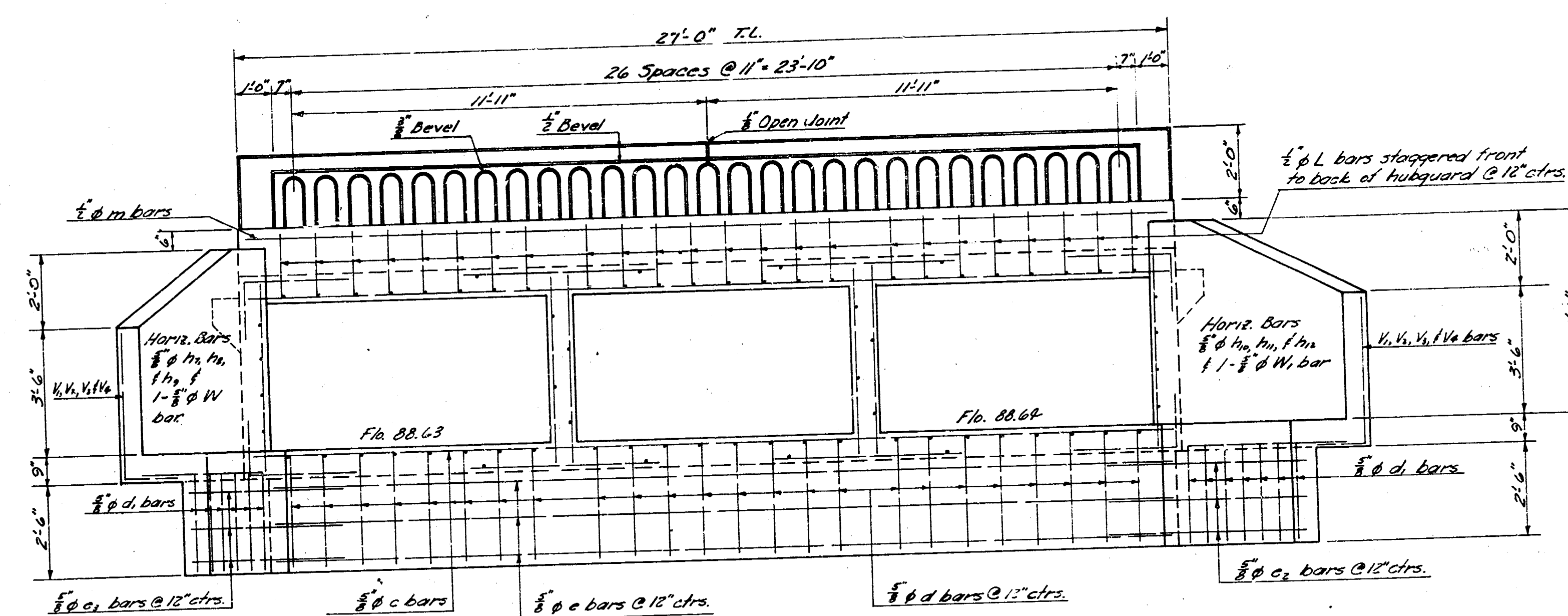
Surveyed by B.E. Smith
 Checked by J.E. C. C. C.
 Checked by J.E. C. C. C.



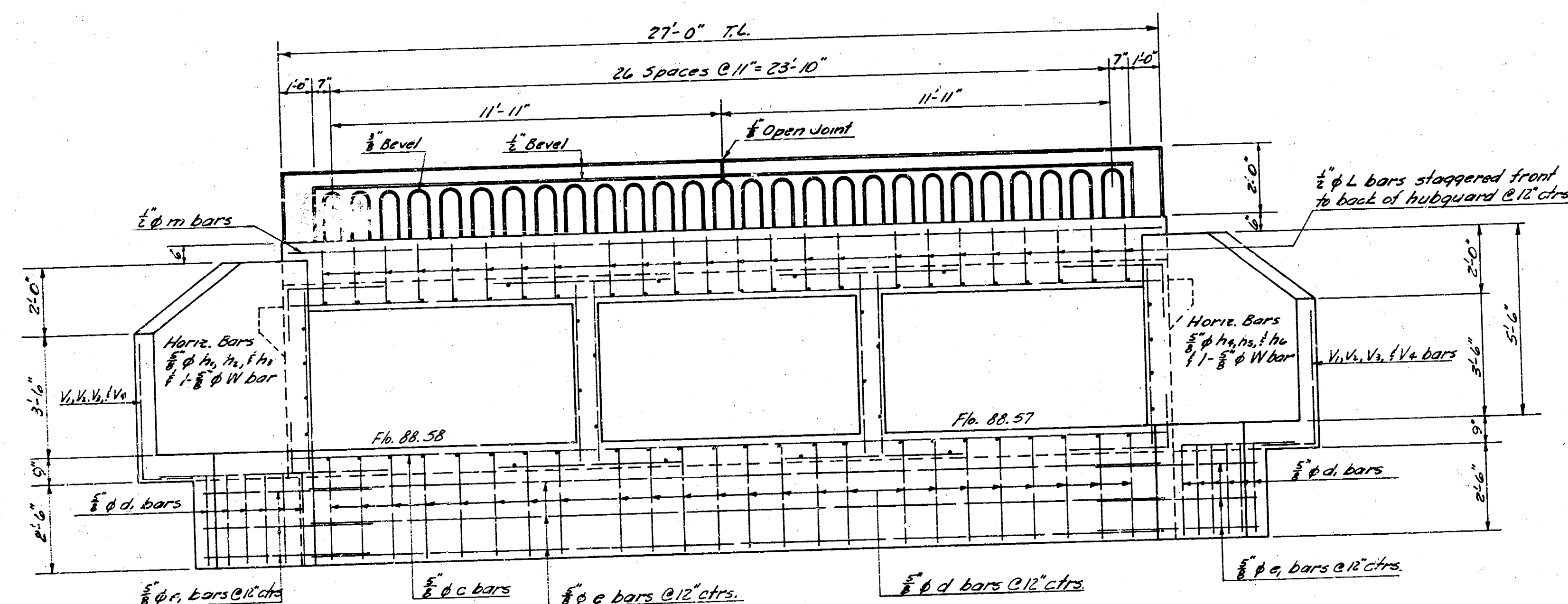
NOTE: General Excavation is to be extended 3' each side of box & wingwalls.
Fill is to be carried to approx. original ground elev. over top of box. All fill
is to be sand stabilized. Back fill at sides of box to be mechanically tamped.



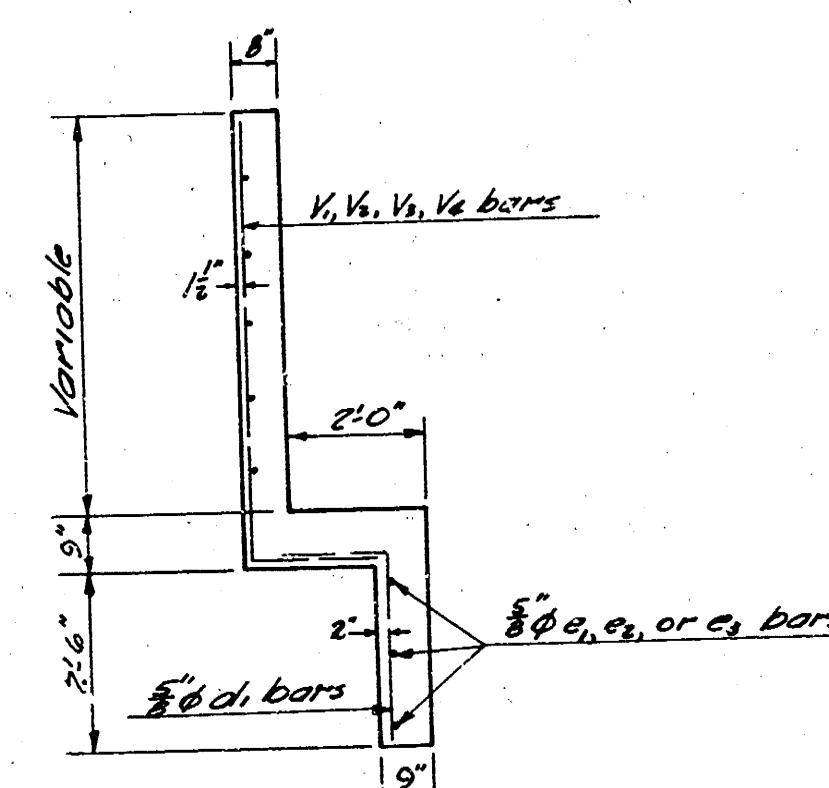
CROSS SECTION OF BOX
SCALE: 1/8" = 1'-0"



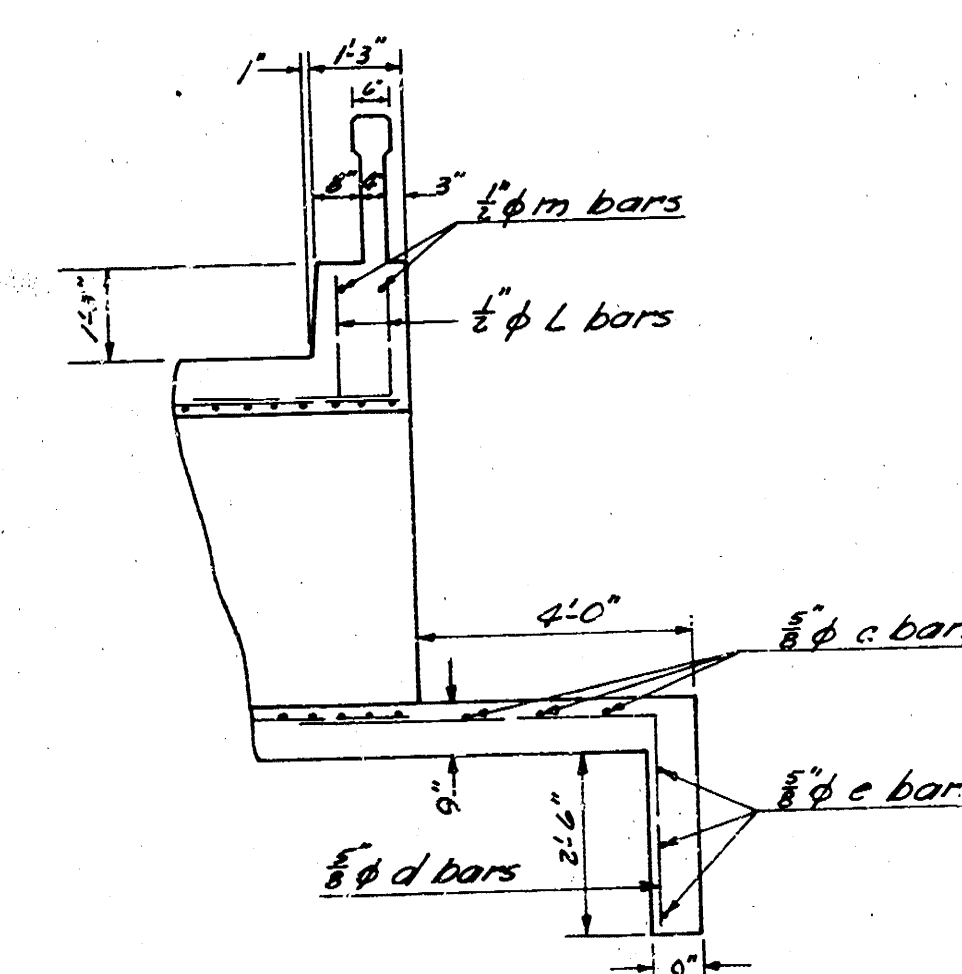
NO. END ELEVATION
SCALE: 1/8" = 1'-0"



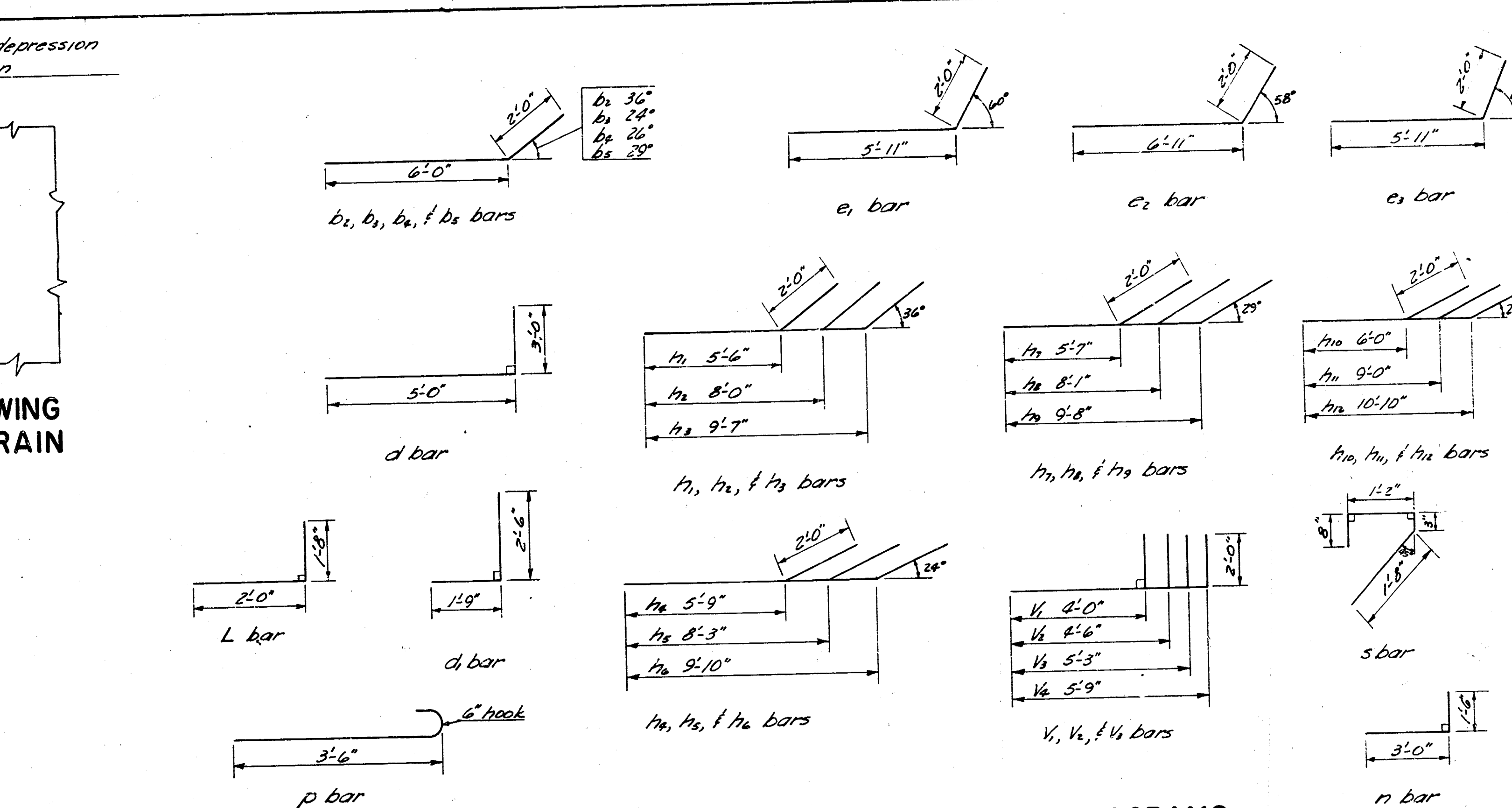
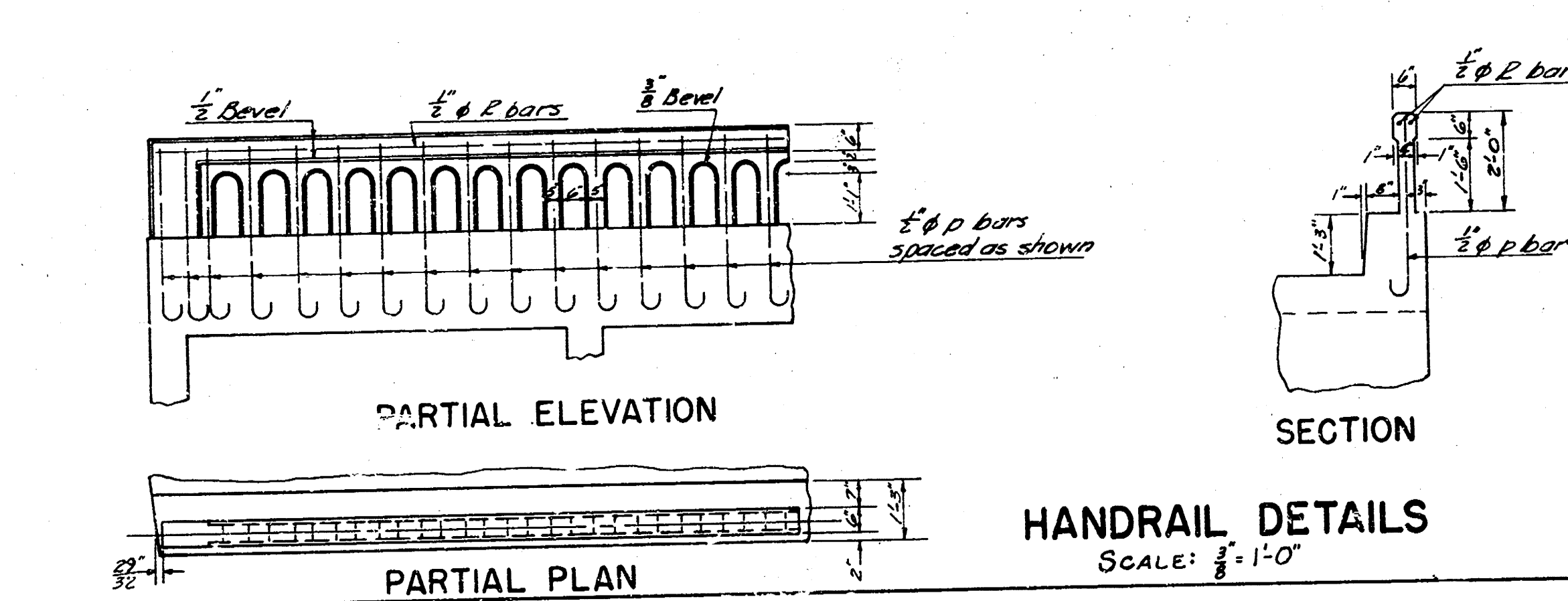
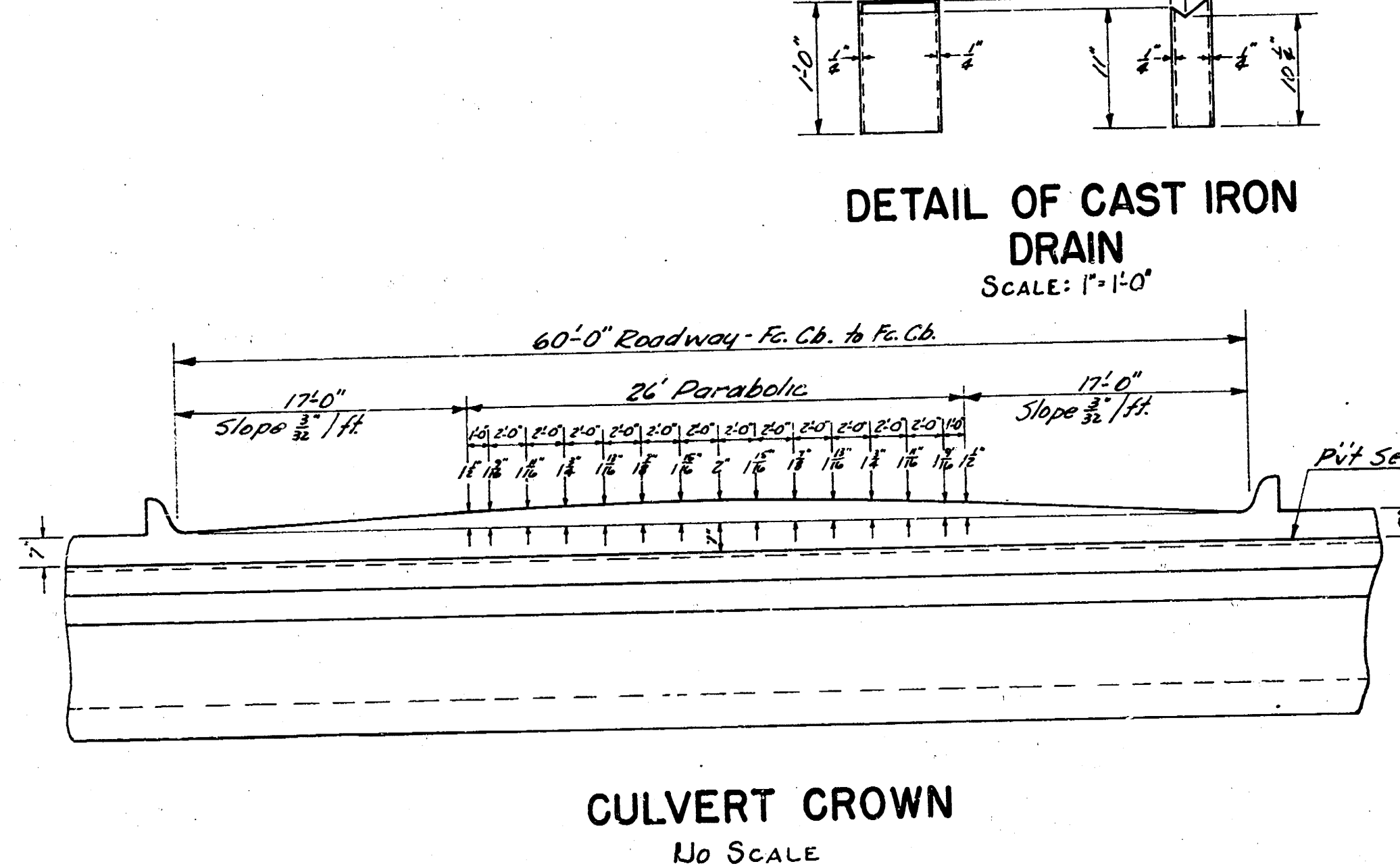
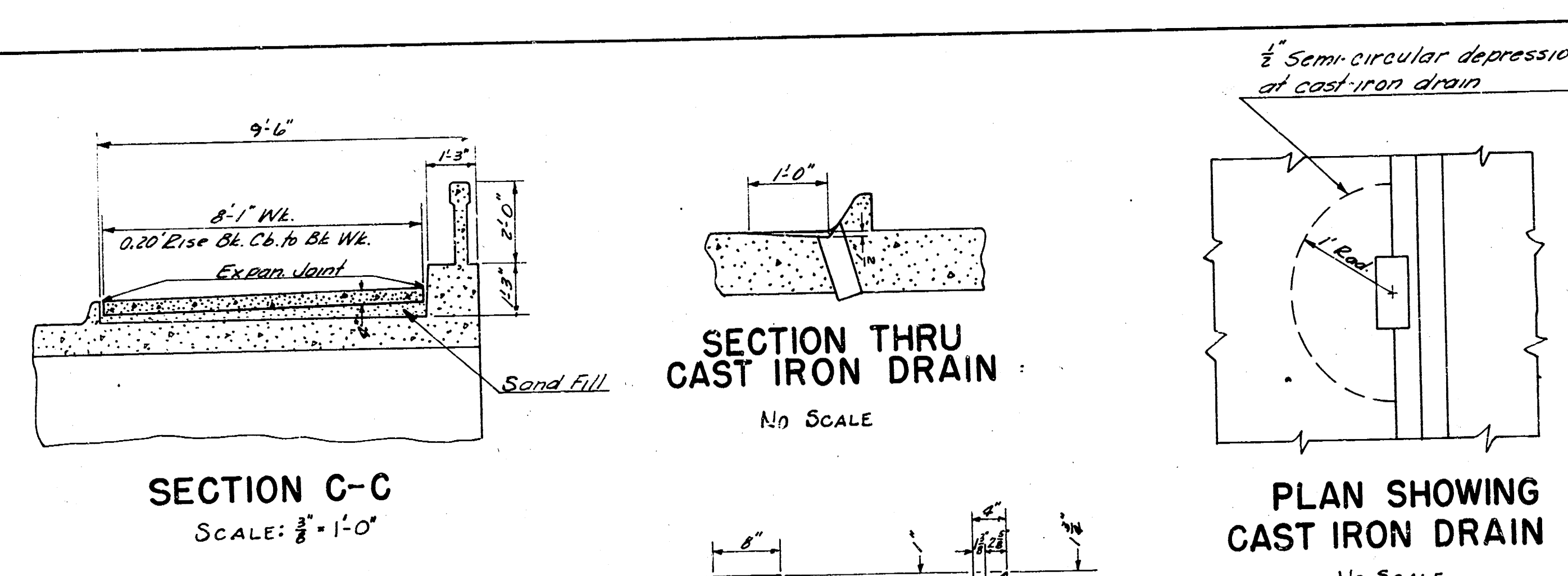
SO. END ELEVATION
SCALE: 1/8" = 1'-0"



SECTION A-A
DIMENSIONS TYPICAL
4 WINGWALLS
NO SCALE



SECTION B-B
DIMENSIONS TYPICAL
BOTH ENDS OF BOX
NO SCALE



STEEL SCHEDULE				STEEL SCHEDULE			
BAR	SIZE	NO.	LENGTH	BAR	SIZE	NO.	LENGTH
a	#4	384	26'-10"	h1	#4	1	7'-7"
a1	"	768	5'-6"	h2	"	1	10'-1"
b	"	128	30'-10"	h3	"	3	11'-8"
b1	"	16	36'-10"	h4	"	1	8'-0"
b2	"	4	8'-0"	h5	"	1	11'-0"
b3	"	4	8'-0"	h6	"	3	12'-10"
b4	"	4	8'-0"	h7	#4	64	4'-0"
b5	"	4	8'-0"	h8	#4	48	3'-8"
c	"	6	27'-0"	h9	#4	2	26'-9"
d	"	48	8'-0"	h10	#4	320	4'-6"
d1	"	28	8'-3"	h11	#4	12	3'-0"
e	"	6	25'-11"	h12	#4	64	4'-0"
e1	"	6	7'-11"	h13	#4	8	13'-2"
e2	"	3	8'-11"	h14	"	128	3'-9"
e3	#4	3	7'-11"	h15	#4	4	3'-8"
g	#4	22	1'-0"	h16	#4	320	5'-2"
h1	#4	1	7'-6"	h17	"	8	6'-0"
h2	"	1	10'-0"	h18	"	9	6'-6"
h3	"	3	11'-7"	h19	"	12	7'-3"
h4	"	1	7'-9"	h20	"	8	7'-9"
h5	"	1	10'-3"	h21	"	3	8'-3"
h6	#4	3	11'-10"	h22	#4	1	9'-3"

BAR BENDING DIAGRAMS
NO SCALE

BILL OF MATERIALS		
ITEM	QUANTITY	UNITS
Class A Concrete	187.6	Cu Yds.
Rein. Steel	27,075	Lbs.
General Excavation	697.7	Cu Yds.
Hand Excavation	72.5	Cu Yds.
Handrail	54	Lm. Ft.
6" Curb	54.3	Lm. Ft.
4" Walk	438.9	Sq. Ft.
15" R.C.P.	16	Lm. Ft.
Cast Iron Drains	6	—
Sand (Stabilized Fill)	175	Tons
Remove Exist. Boxes	—	—