B.M. 1564.83 "S" In Globe S. Cb. Gilbert W.L. Oliver
B.M. 1571.27 "M" In Mueller Fire Plug N.E. Cor. Eastwd & Gilbert

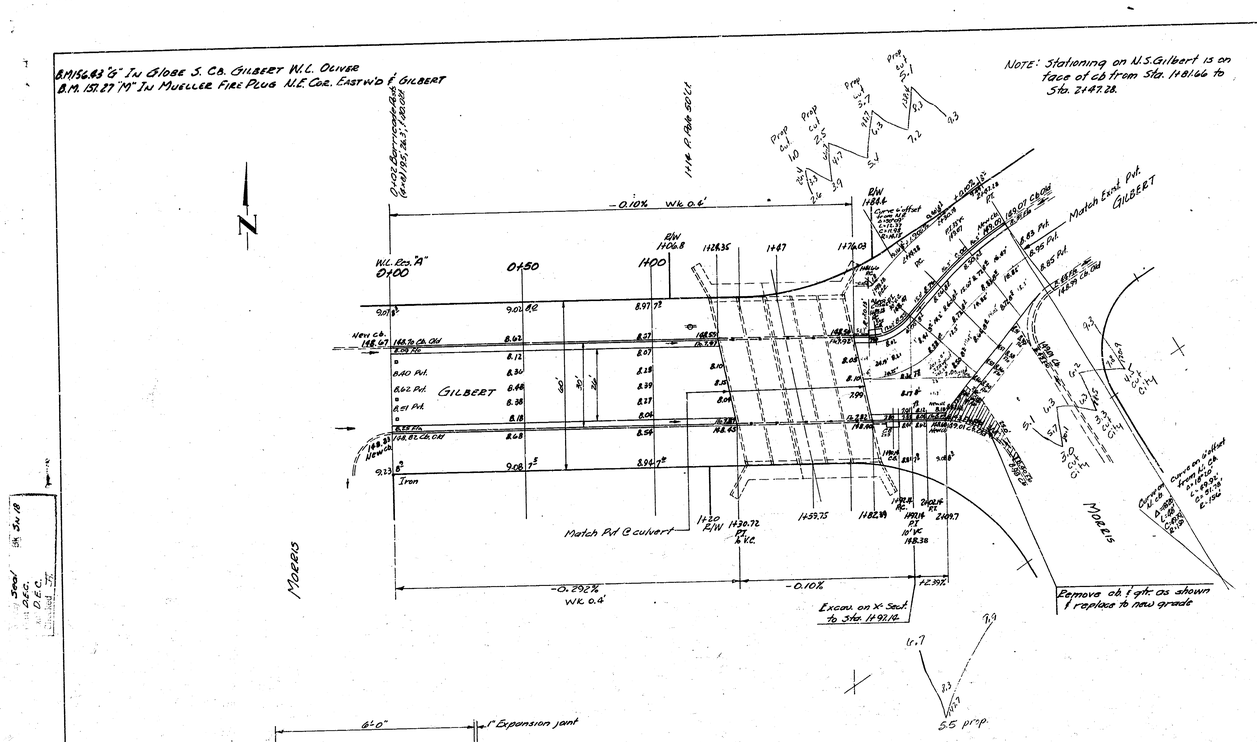
NOTE: Stationing on N.S. Gilbert is on face of cb from Sta. 1+81.66 to Sta. 2+47.28.

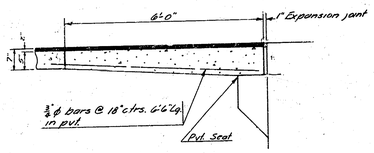
Excess Total

	Prop.	C.I.Y.
	17.8	12.8
x-sec	31.0	
+10%	4.9	+10% 1.3
Total	53.7 cu. yds	Total 14.1 cu. yds

Fill Total

Prop.	C.I.Y.
231.2	0
+10% 23.1	
Total 254.3 cu. yds	





TYPICAL SECTION AT PVT SEAT

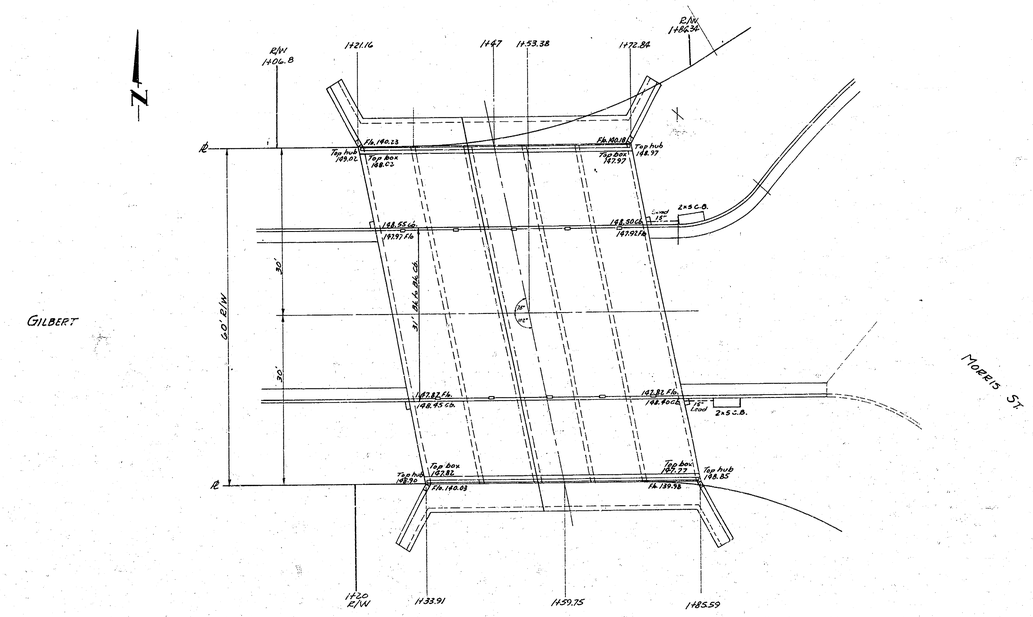
1/2

GILBERT ST.
W.L. Res. "A" EASTWD VILLAGE ADD'N TO W.L. Lot 17 Blk "F" EASTWD VILLAGE ADD'N
26-2-30
CITY OF WICHITA, KANSAS
B.E. SMITH CITY ENGINEER
MARCH 1954 PROJ. No. C13-213

B.E. SMITH LICENSED KANSAS PROFESSIONAL ENGINEER 436

5-9'x7' R.C.B.
GILBERT & MORRIS

C 13-213



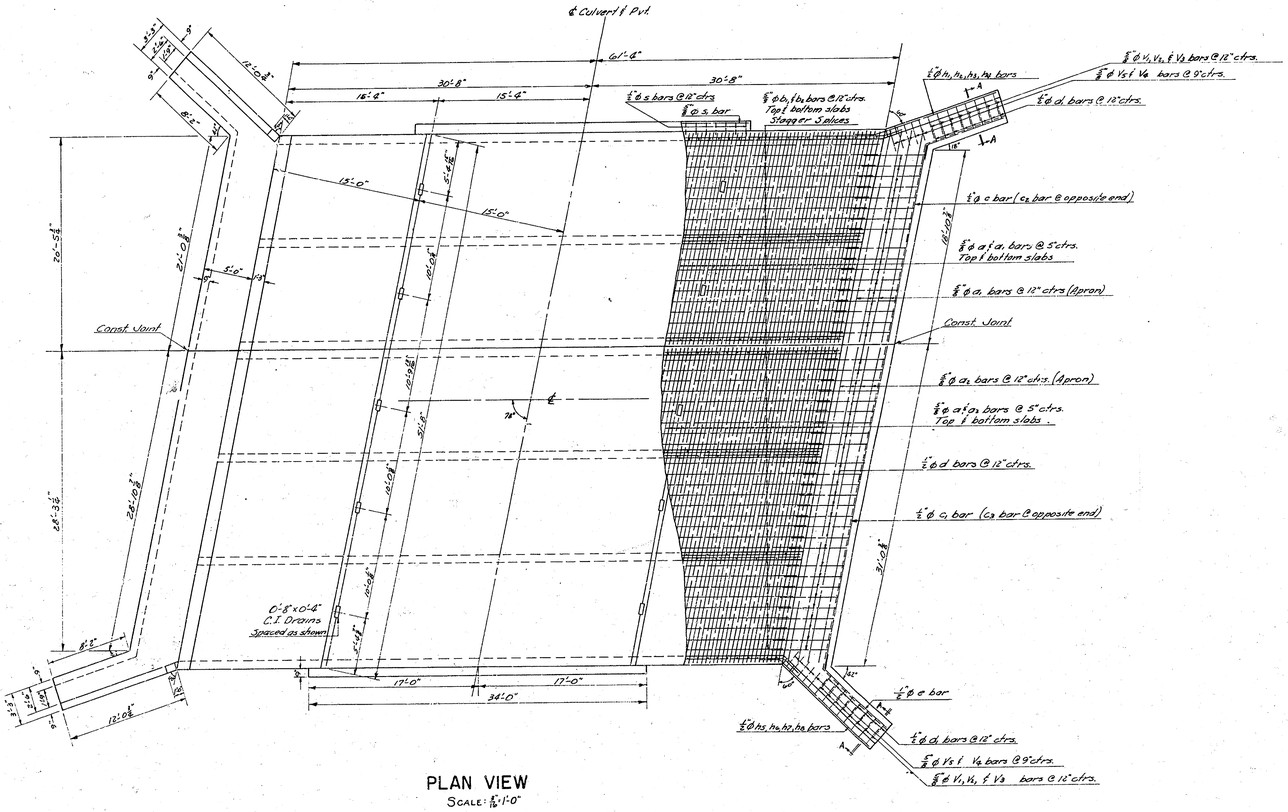
PLAN LAYOUT

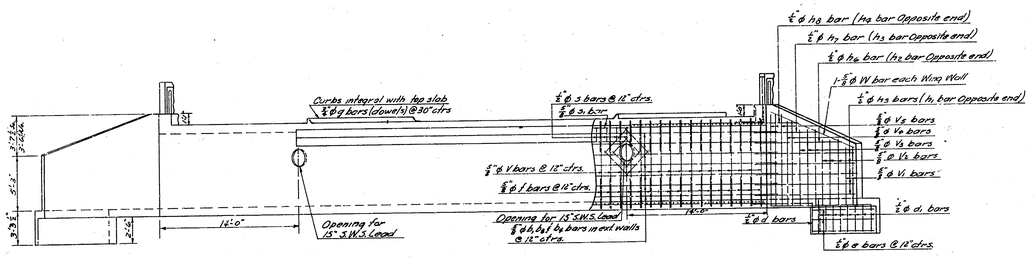
SCALE: 1"=10'-0"

Survey Seal 1 Hammock 5-18
Plan D.E.C.
Exc D.E.C.
Checked U.R.

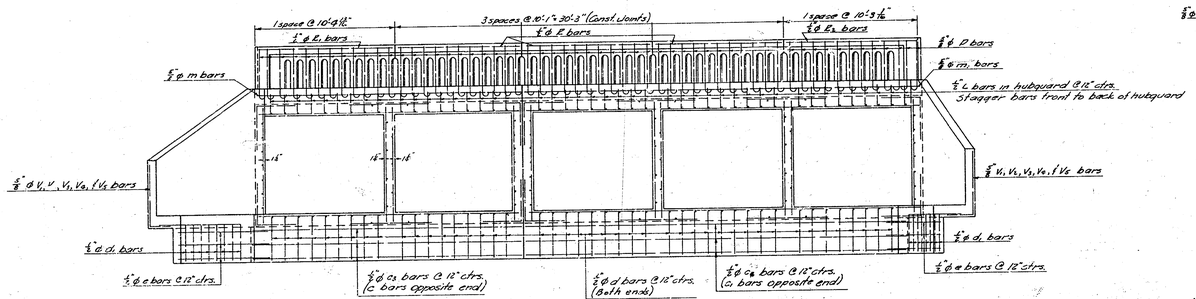
436

1/6

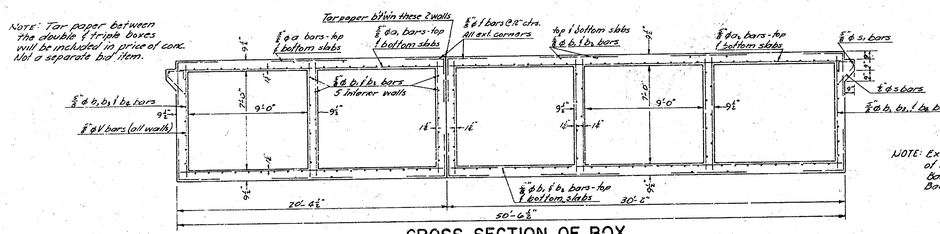

℄ Culvert & Pvt.
60'-6"
30'-8"
30'-8"
16'-6"
15'-6"
12'-0"
8'-2"
12'-0"
15'-0"
5'-0"
Const. Joint
Const. Joint
78°
17'-0"
34'-0"
17'-0"
C.I. Drains
Spaced as shown
13'-0"
11'-0"
8'-2"
5'-0"
5'-0"
5'-0



EAST ELEVATION

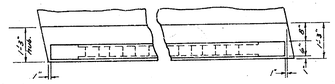


SOUTH ELEVATION

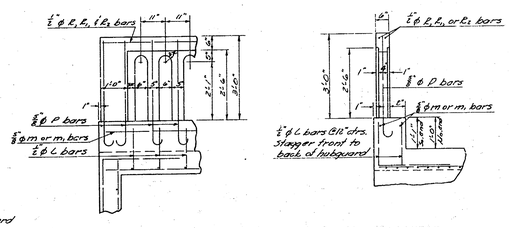


CROSS SECTION OF BOX

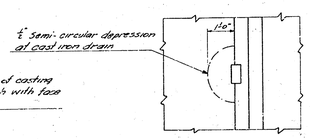
NOTE: Excavation is to be extended 20' beyond sides of the box & wingwalls. Backfill is to be carried to original ground elevation. Backfill is to be sand stabilized & mechanically tamped.



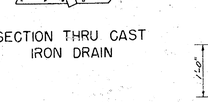
LOCATION OF HANDRAIL ON HUBGUARD



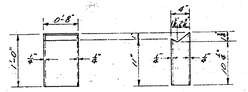
DETAIL OF HANDRAIL



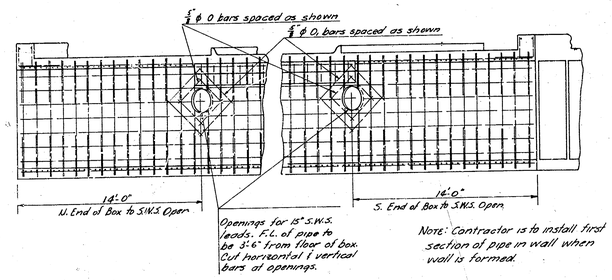
PLAN SHOWING CAST IRON DRAIN



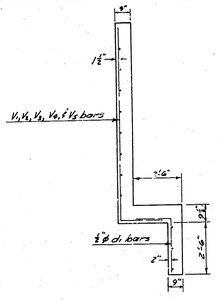
SECTION THRU CAST IRON DRAIN



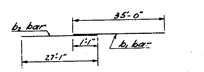
DETAIL OF CAST IRON DRAIN IO REQD



SECTION EAST WALL & S.W.S. OPENINGS

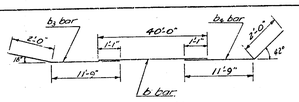


SECTION A-A
WING WALLS

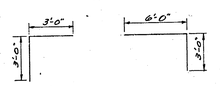


b, & b4 bar splice

Note: Splice of b, & b1 bars to be staggered



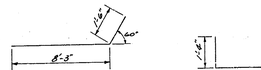
b, b2 & b4 bar splice



f bar d bar

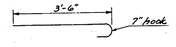


d1 bar

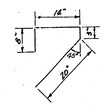


e bar

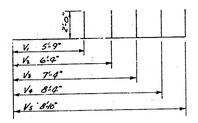
L bar



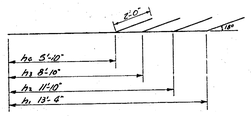
P bar



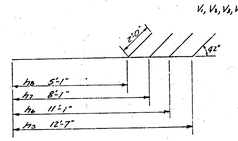
s bar



V, V1, V2, V3, V4, & V5 bars

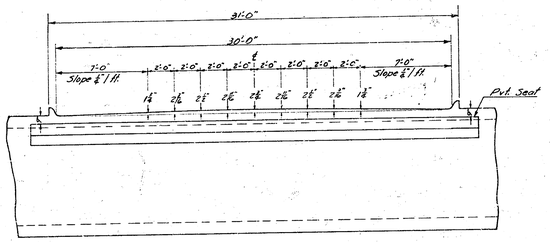


h1, h2, h3, & h6 bars



h3, h4, h5, & h6 bars

BAR BENDING DIAGRAMS



CULVERT CROWN

STEEL SCHEDULE

BAR	SIZE	NO.	LENGTH	SHAPE	BAR	SIZE	NO.	LENGTH	SHAPE
a	⅝" ϕ	876	6'-0"	—					
a1	"	300	20'-6"	—	h1	⅝" ϕ	2	10'-1"	—
a2	"	300	30'-6"	—	h6	⅝" ϕ	2	7'-1"	—
b	"	14	40'-0"	—	W	⅝" ϕ	4	11'-5"	—
b1	"	137	35'-0"	—	L	⅝" ϕ	90	3'-5"	—
b2	"	137	27'-1"	—	m	⅝" ϕ	4	20'-0"	—
b3	"	14	13'-9"	—	m1	"	4	30'-6"	—
b4	⅝" ϕ	14	13'-9"	—	O	"	8	7'-8"	—
c	⅝" ϕ	3	19'-2"	—	O1	"	8	3'-10"	—
c1	"	3	30'-11"	—	P	⅝" ϕ	1'4	4'-1"	—
c2	"	3	20'-11"	—	R	⅝" ϕ	12	9'-9"	—
c3	"	3	29'-2"	—	R1	"	4	10'-0"	—
d	"	88	9'-0"	—	R2	"	4	9'-11"	—
d1	"	32	8'-3"	—	S	⅝" ϕ	68	3'-9"	—
e	⅝" ϕ	12	9'-9"	—	S1	⅝" ϕ	2	33'-8"	—
f	⅝" ϕ	488	6'-0"	—	V	"	427	8'-3"	—
g	⅝" ϕ	42	1'-0"	—	V1	"	8	7'-9"	—
h1	⅝" ϕ	10	15'-6"	—	V2	"	12	8'-6"	—
h2	"	2	13'-10"	—	V3	"	12	9'-6"	—
h3	"	2	10'-10"	—	V4	"	8	10'-6"	—
h6	"	2	7'-10"	—	V5	⅝" ϕ	12	10'-10"	—
h5	"	10	14'-"	—					
h4	⅝" ϕ	2	13'-1"	—					

BILL OF MATERIALS

ITEM	QUANTITY	UNITS
Class "A" Concrete	327	Cu. Yd.
Reinforcing Steel	41,155	Lbs
Handrail	101.81	Lin. Ft.
Gen. Excavation	3446	Cu. Yd.
Hand Excavation	9.3	Cu. Yd.
Cast Iron Drains	10	each
Sand for Compact Backfill	20	Ton
Tot. Cb.	1023.33	Lin. Ft.