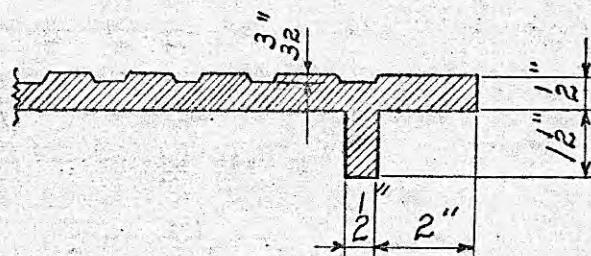
PLANSECTION A-ANOTE:-

Plate shall be set on the graded ground.
Paint one shop coat of oil alkyd rust inhibitive primer.

Material shall be grey cast iron per ASTM A-48 class 30.

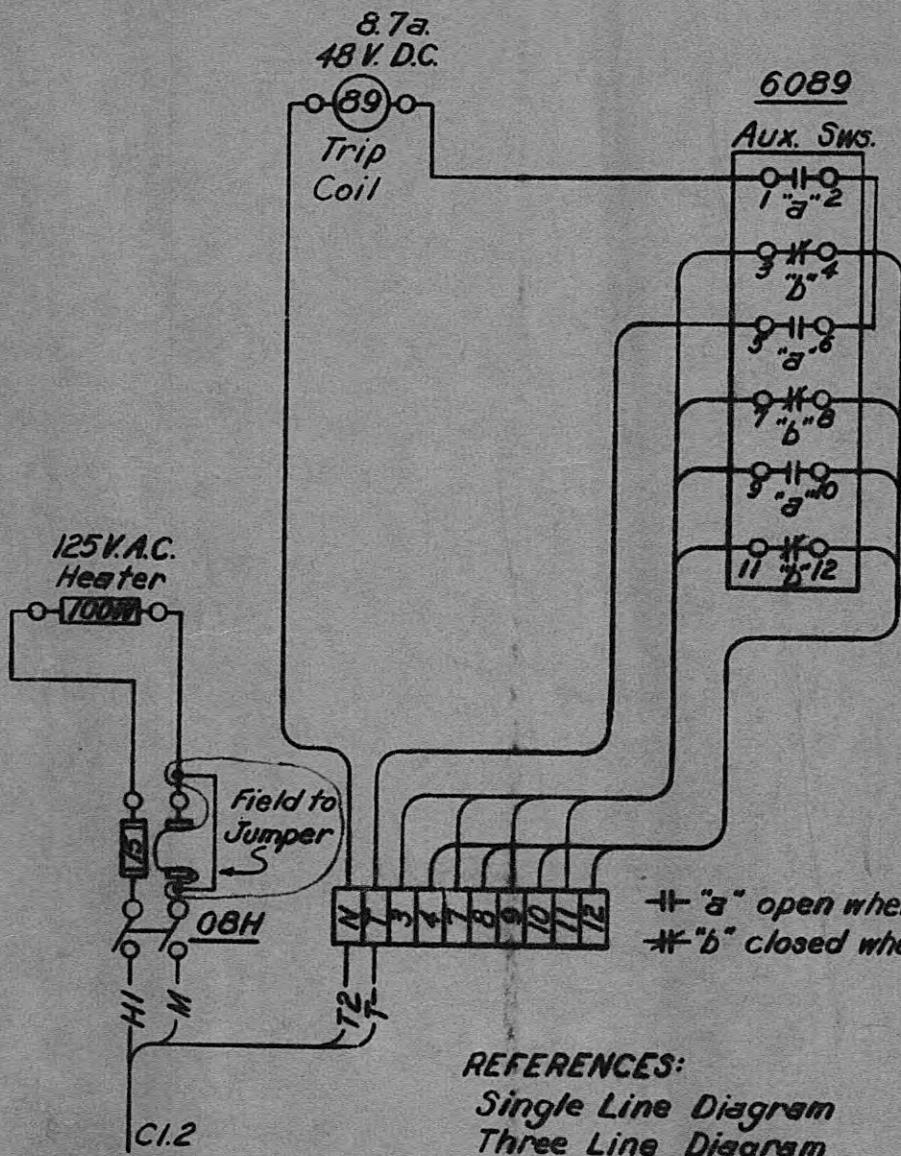
Approx. weight, 210#

9	Removed red lead and linseed oil.				
	9-16-81	W.H.F.	W.S.C.	W.S.C.	H.H.U.
8	TRACED				
	1-3-66	P.M.	R.W.R.	R.W.R.	W.G.T.
Rev. No.	DATE	DSGN.	DRWN.	CHKD.	SUPV.
	D.S.G.N.	D.F.	SUPV.		
	DRWN.	D.F.	W.O.		
	CHKD.	W.W.P.	PROJ. ENGR.		

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING

SUBSTATIONS GENERAL
GROUNDED PLATFORM PLATE
DETAIL FOR AIR BREAK SWITCH CONTROL

DATE	SUBMITTED	APPROVED	SHEET / OF / SHEETS
5-6-66	R.L. Connally	C.J. Reavis	1 / 1 / SHEETS
1" E 3/8"	CLASS. CODE	15 906 0	SC-3956
SCALE			



REFERENCES:

Single Line Diagram	WL-4545
Three Line Diagram	WL-4587
Elem. Diagram	WL-4588
Conduit Plant Details	LC-49979
Conduit & Cable List	CMC-49981
Mfr's Dwg's.	XA-2033
Mfr's Wiring Diagram	23-122-310-001

Norris - Rockwood - 69KV.	607	6089	6000
LOCATION	SWNO.	DEV. NO.	DEV. SER.

TENNESSEE VALLEY AUTHORITY

DIVISION OF POWER PLANNING AND ENGINEERING

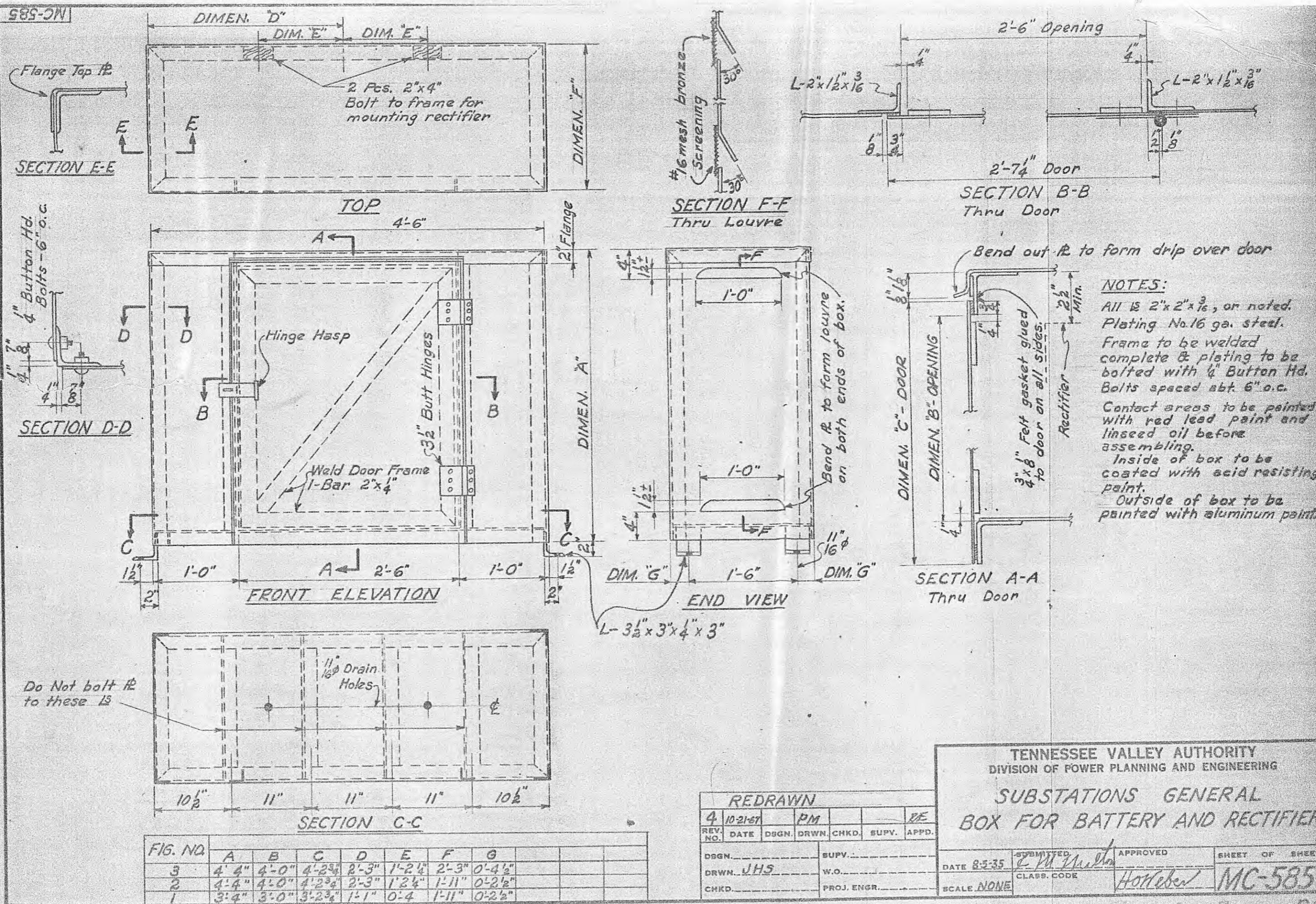
N.E. HARRIMAN, TENN., SUB. 69 KV.
CONTROL DIAG. FOR ALLIS-CHALMERS
"TA-1B", 69 KV, 600 A, DISC. SW. WITH "CHA" SPRING MECH.

1 Jumpered Grd. Circuit Fuse					
DSGN.	JGG	MFA	JGG		
REV. NO.	DATE	DESIGN	DRAWN	CHKD	SUPV.
LMG					
MFA					
JGG					

SUPV. W.O.	37174	SUBMITTED Denny L. Hunter	APPROVED Robert C. Clark	SHEET 1 OF 1 SHEETS WS-4602
DATE 6/6/69	SCALE None	CLASS CODE D338A		
PROJ. ENGR.				

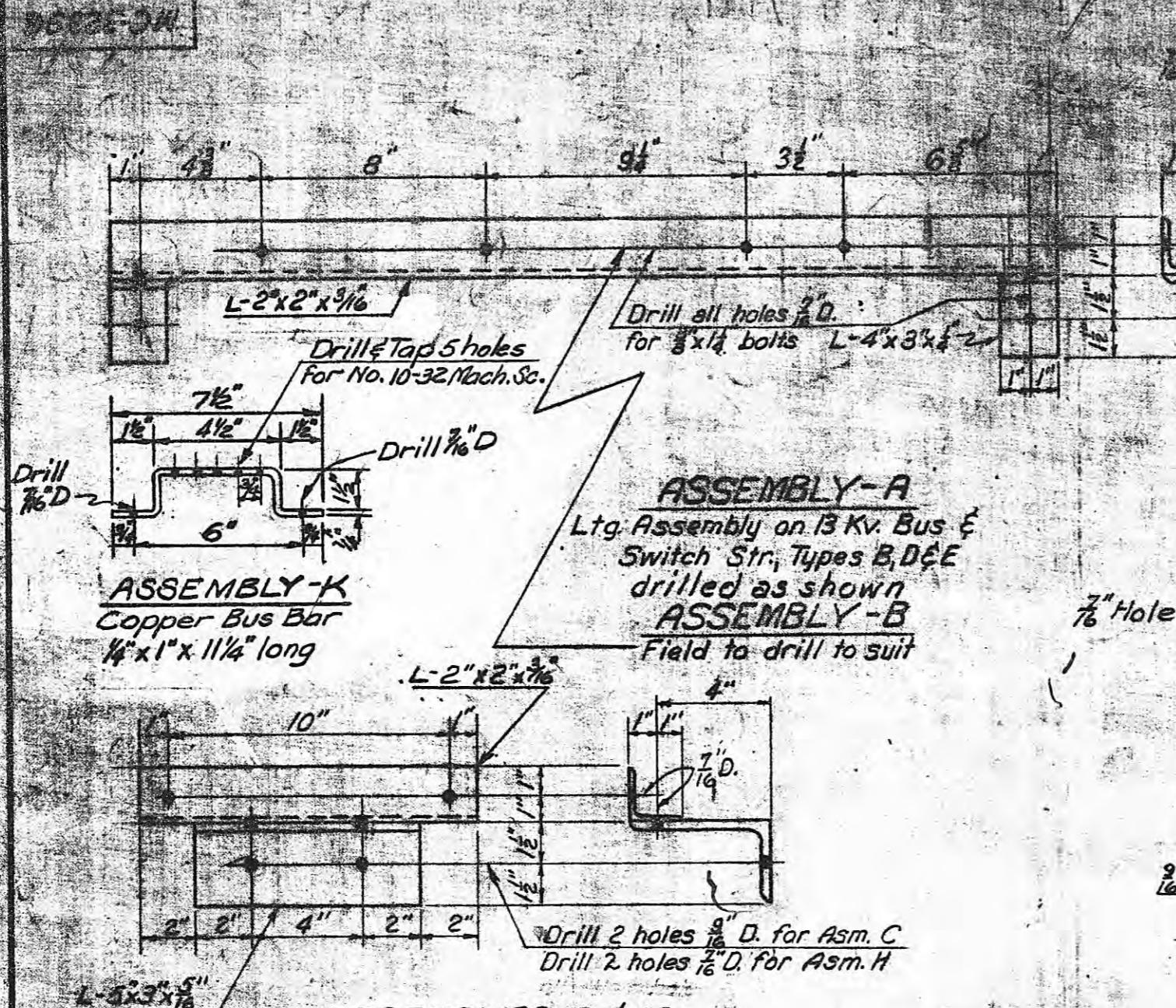
Original Issue

MICROFILMED



TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING

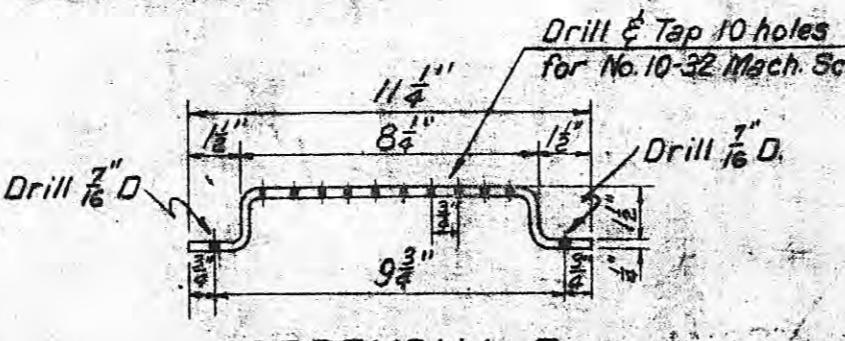
SUBSTATIONS GENERAL
BOX FOR BATTERY AND RECTIFIER



ASSEMBLIES-C & H

Mfg. for 24x24"x10' Boxes on
13 Kv. Bus & Sw. Str. Types B,D & E

Added Assembly K					
5	Printed	SS	REH		
Added Assembly J					
4	5/12/55	ACK	ACK		
Added Assembly H					
3	12-54 GFZ	HLP	GFZ		
Added Assembly G					
2	9/6/55	CKS	GFZ	R/E	
Added Assembly F					
1	10/1/54	ACK	EBA		
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV.
					SUBM
DSGN				SUPV	EBA - R/E
DRWN		H.L.P.		W.O.	
CHKD		EBA		PROJ. ENGR.	

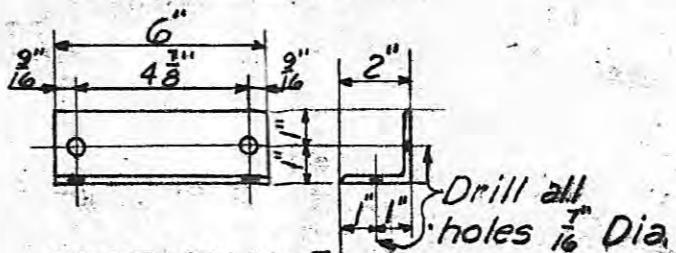


ASSEMBLY-D

Copper Bus Bar
 $\frac{1}{4}'' \times 1'' \times 1'-3''$ long

**MATERIAL REQUIRED
FOR ONE PUPPET**

ITEM	NO. R.D.	DESCRIPTION	QTY	WT.	UNIT	VAL.
A	1	L 2" x 2" x 3"	0	50	LB	50
E	2	L 4" x 3" x 1/2"	0	2	LB	2
B	4	3/8" Mach. Bolt, Galv.	0	14	LB	14
C	1	L 2" x 2" x 3"	1	2	LB	2
C	1	L 5" x 3" x 1/2"	0	8	LB	8
C	2	3/8" Mach. Bolt, Galv.	0	14	LB	14
C	2	1/2" Mach. Bolt, Galv.	0	3	LB	3
D	1	COPPER BUS BAR	1	3	LB	3
D	2	1/2" Everdur Bolt & Nut	0	1	LB	1
D	10	No. 10-32 Mach. Sc.	0	14	LB	14
E	1	L 4" x 3" x 3"	0	2	LB	2
F	1	L 2" x 2" x 3 1/2"	0	6	LB	6
G	1	L 2" x 2" x 3 1/2"	0	6	LB	6
H	1	L 2" x 2" x 3"	0	8	LB	8
H	1	L 5" x 3" x 1/2"	0	8	LB	8
H	4	3/8" Mach. Bolt, Galv.	0	14	LB	14
J	2	4" L @ 5.4"	0	7	LB	51
J	4	3/8" Mach. Bolt, Galv.	0	14	LB	14
K	1	COPPER BUS BAR	0	10	LB	10
K	2	3/8" Everdur Bolt & Nut	0	1	LB	1
K	5	No. 10-32 Mach. Sc.	0	14	LB	14



ASSEMBLY-1

L-2" x 2" x 3/8" x 0"-6" long
For Mtg. 100 Amp. plug
outlet at hoist tower

Note:

All steel material to be hot-dipped galvanized after fabrication.



ASSEMBLY-G

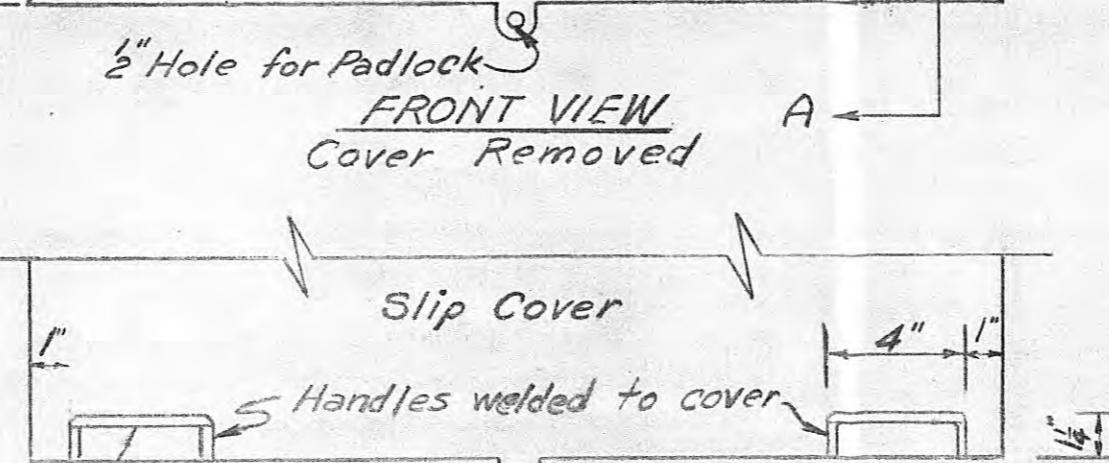
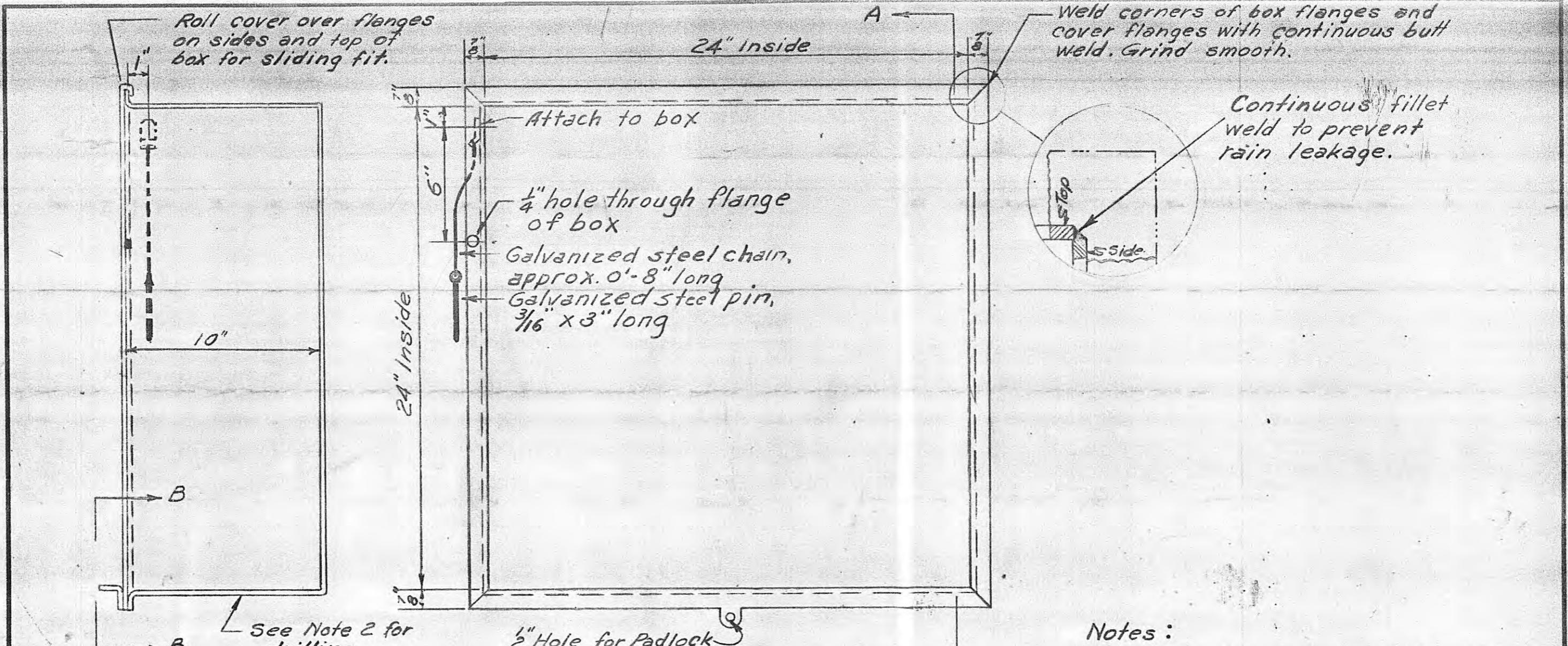
L-2" x 2" x 3/16" x 0'-6" long
For Mtg. 60 amp. Plug
outlet at hoist tower.

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION

**SUBSTATION GENERAL
BOX MOUNTING DETAILS
FOR STD. DISTRIBUTION SUBSTATION**

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION

SUBSTATION GENERAL
BOX MOUNTING DETAILS
FOR STD. DISTRIBUTION SUBSTATION



4" Rod bent as shown

SECTION B-B

Added cover support pin

21-26-71 BAH/REH/TAT

Added Note 3

11-16-61 TME

REV. NO. DATE DSGN DRWN CHKD SUPV. APPD

DSGN _____ SUPV. _____

DRWN H55 W.O. _____

CHKD _____ PROJ. ENGR. _____

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION

SUBSTATIONS GENERAL
SHEET STEEL DISTRIBUTION BOX
24" X 24" X 10" WITH SLIP COVER

DATE 8-3-61	SUBMITTED	APPROVED 2-11-61	SHEET 1 OF 1 SHEETS
SCALE None	2-4-61	MC-40291	

NOTE: Take one turn of
grounding wire around
saddle bolt or eyebolt
at top of pole in Figs. 1, 2, 3 & 4

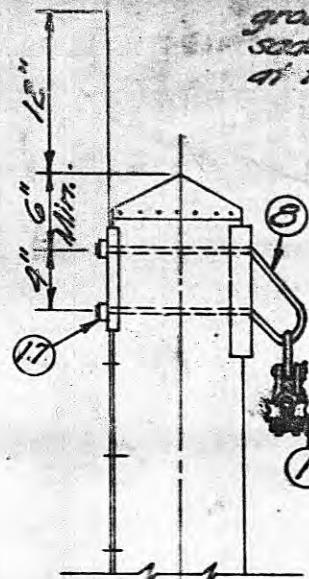


FIGURE 1
GROUND WIRE SUSPENSION

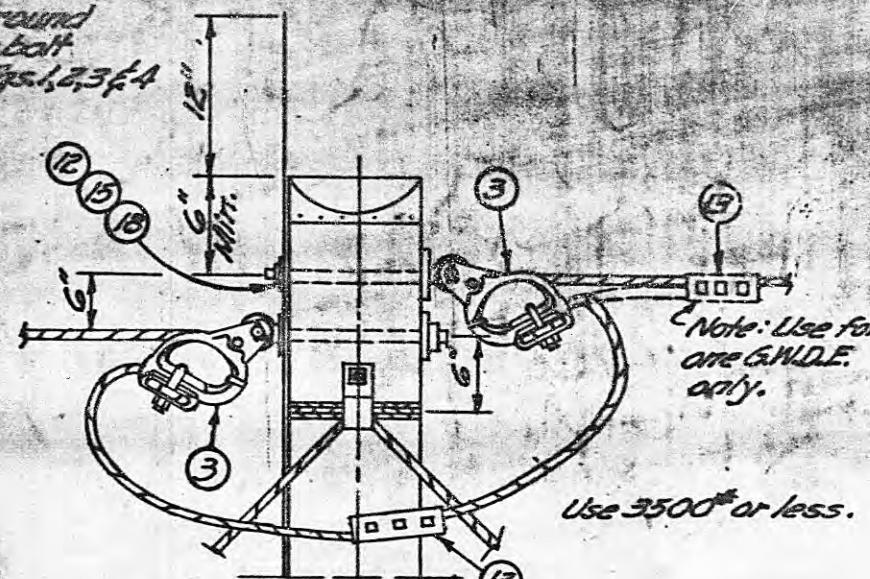


FIGURE 2
GROUND WIRE DEAD END

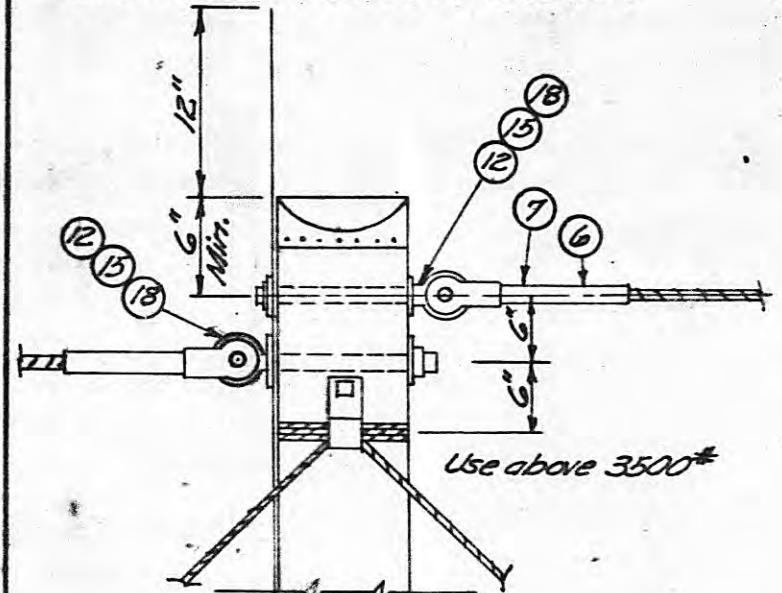


FIGURE 3
GROUND WIRE DEAD END

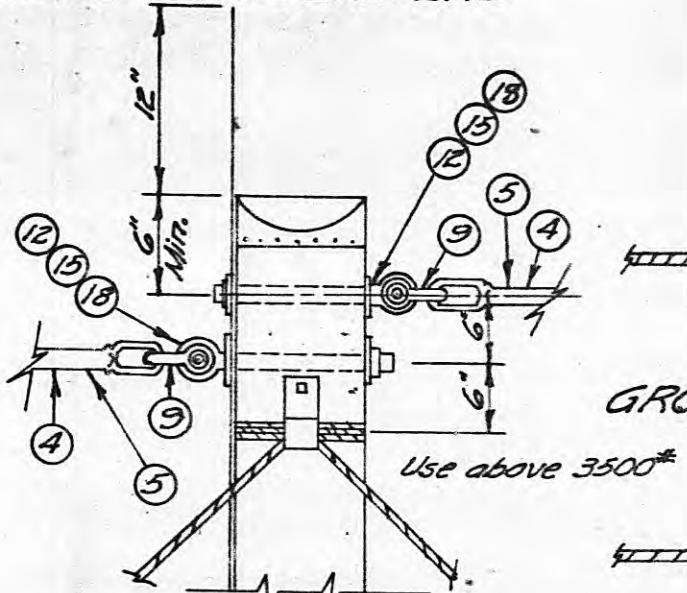


FIGURE 4
GROUND WIRE DEAD END

REMOVED COMPUTER ID NO.					
21	Added Computer ID No. 5/18/72 DLS HAE				
Rev. Figure 11 G.W. Susp.					
20 10-8-70	DLS	HAE	H&J		
Rev. P/nut Spec. Numbers					
19 4-20-66	HCJ				
Removed Guy Clip					
18 1/28/63	CRP		HCJ		
17-Rev. Items 162 in Figure 5					
17 3/22/62	CRP		HCJ	ACP	
16-Revised, Redrawn and added Sheet 3					
16 2-3-60	A.N.S.	J.E.B.	HCJ		
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV.
DSGN	A.N.S.		SUPV	H.C.J.	
DRWN	A.N.S.		W.O.		
CHKD	J.E.B.		PROJ. ENGR.	Z.W.M.	
22 9/25/68					

FIGURE 5
GROUND WIRE SUSPENSION

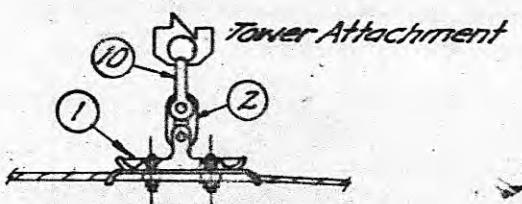


FIGURE 5
GROUND WIRE SUSPENSION

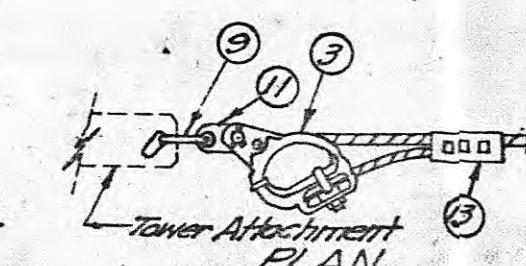


FIGURE 6
GROUND WIRE DEADEND PLAN

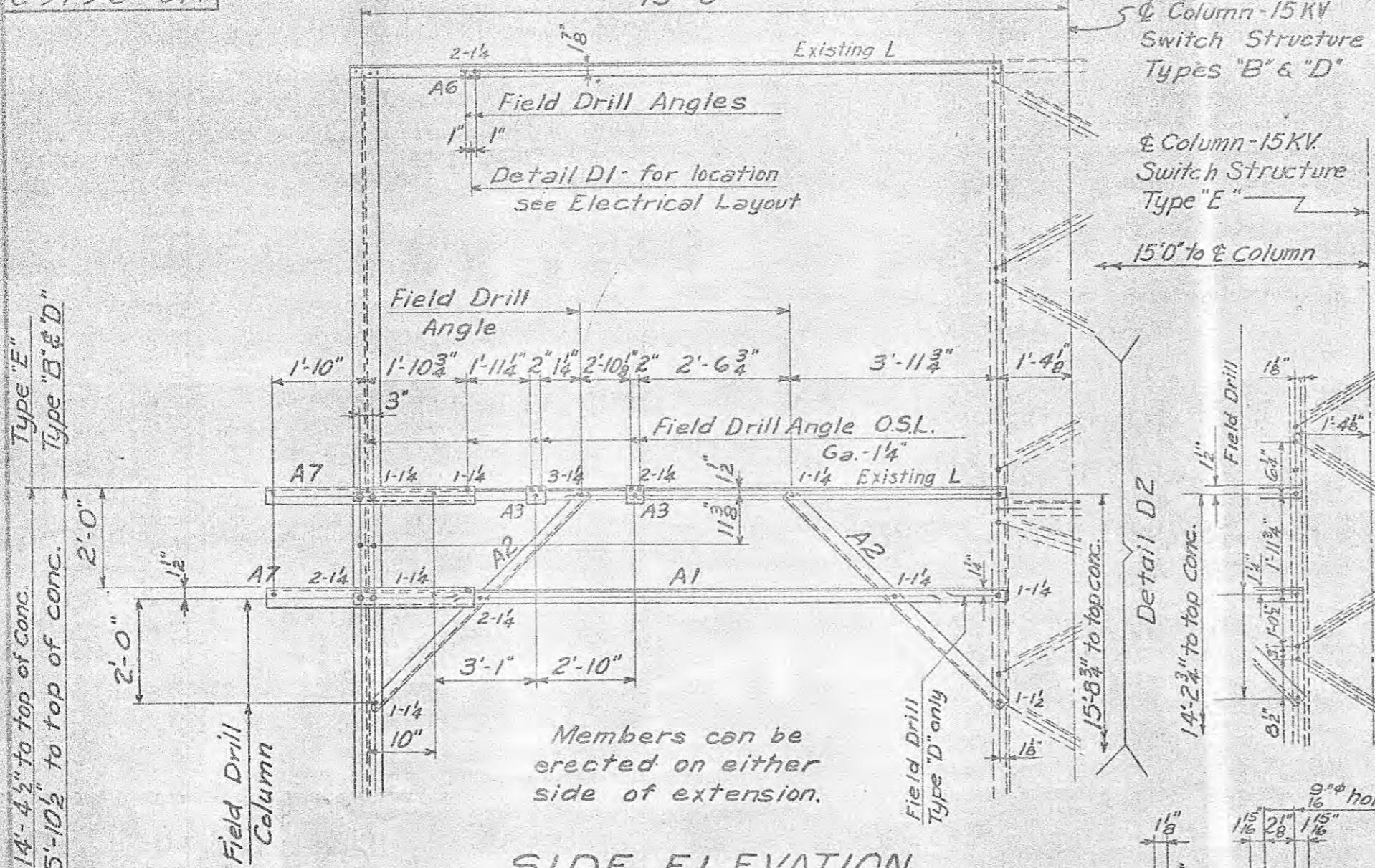
LIST OF MATERIAL (PER ASSEMBLY)

ITEM REQUIRED		DESCRIPTION		STOCK NO.
1	1	1	1	1
1	1	1	1	2
1	1	1	1	3
1	1	1	4	4
1	1	1	5	5
1	1	1	6	6
1	1	1	7	7
1	1	1	8	8
1	1	1	9	9
1	1	1	10	10
1	1	1	11	11
1	1	1	12	12
1	1	1	13	13
1	1	1	14	14
2	2	2	15	15
1	1	1	16	16
1	1	1	17	17
1	1	1	18	18

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION
TRANSMISSION GENERAL
OVERHEAD GROUND WIRE ASSEMBLIES
FOR $\frac{3}{8}$ " AND $\frac{5}{16}$ " H.S. STEEL

DATE	SUBMITTED	APPROVED	SHEET / OF / SHEETS
10-25-68	R.P. Gentry	A.J. Green	1 / 3 / 3
SCALE M.S.	DEP		MC-4528

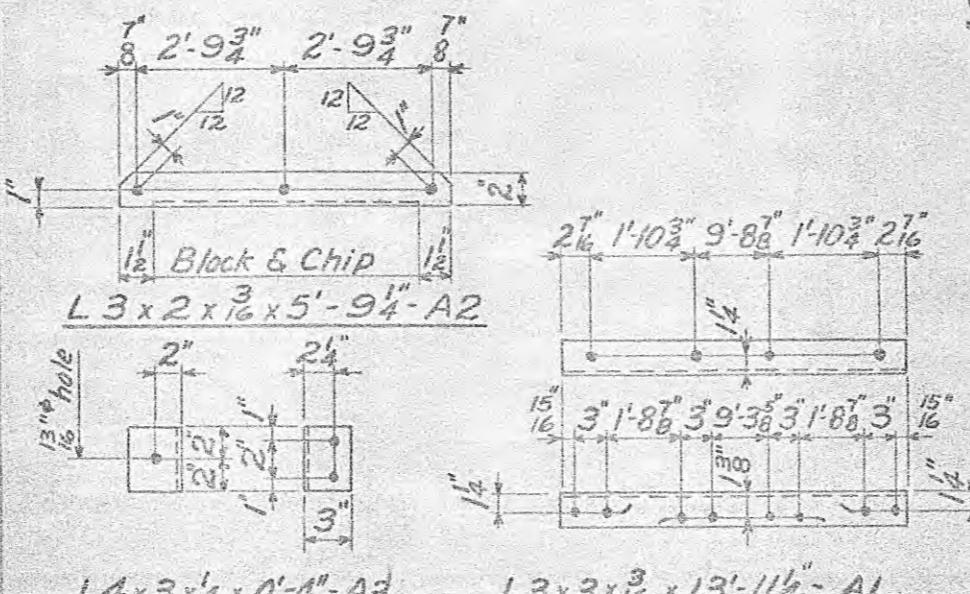
MC-26163



SIDE ELEVATION

Added sheet 3			
6		PF	DL
Removed pcs A4 & A5 from Det D2			
Wt. of Det. D2 was 168 #			
5 216-62	WHTPA R/C	WGT	AMM
Added sheet 2			
4 1-8-60	CWT	R/C	WGT
Added Type "E" Extension			
3 12-10-53	JKB	O.F.S.	GMW
Traced; Bolt weights corrected			
2 8-19-53	RWR	OKC	GMW. R/C.
Added piece A7, A3 was L 3x2 x $\frac{3}{8}$			
1 11-11-52	WSL	CWD	

R.F.C



L4x3x4 x 0'-4"-A3

L3x3x $\frac{3}{16}$ x 13'-1 $\frac{1}{2}$ - A1

BILL OF MATERIAL

NO.	REQ'D	MARK	DESCRIPTION	LENGTH		WT.
				DET.D1	DET.D2	
					FT	IN. EACH
1	A1	L	3 x 3 x $\frac{3}{16}$	13	11 $\frac{1}{4}$	53
2	A2	L	3 x 2 x $\frac{3}{16}$	5	9 $\frac{1}{4}$	18
2	A3	L	4 x 3 x $\frac{1}{4}$	0	4	2
1	A6	L	6" [Ø 8.2] *	0	4	3
2	A7	L	4 x 3 x $\frac{1}{4}$	4	2	25
5	19		$\frac{5}{8}$ " Bolts, sq. hd, hex. nut	0	1 $\frac{1}{4}$	0.31
	2		do	0	1 $\frac{1}{2}$	0.33
Total Weight 4#						
Total Weight 150**						

NOTES:

All holes $\frac{1}{16}^{\prime\prime}$ unless noted.
Material to be hot-dip galvanized.

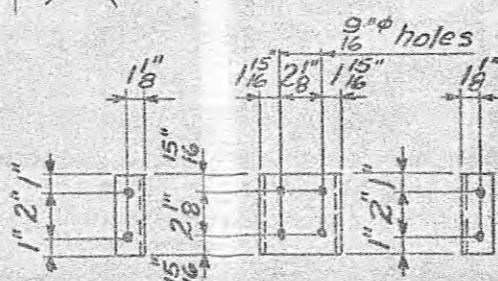
Piece marks to be die-s
RFFFRFNF:

15 KV. Switch Structure type "E".....LC-28284
Regulator Extr type "E".....LC-28285

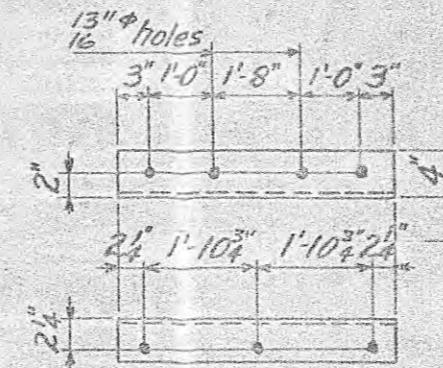
15 KV Switch Structure, type "B" - LC-17485

Regulator Ext'n. type "B-LG17113E-LC-21730Rev1
15KV Switch Structure, type "D"-- LC-28012

Regulator Extn. Type "D" ----- LC-22617



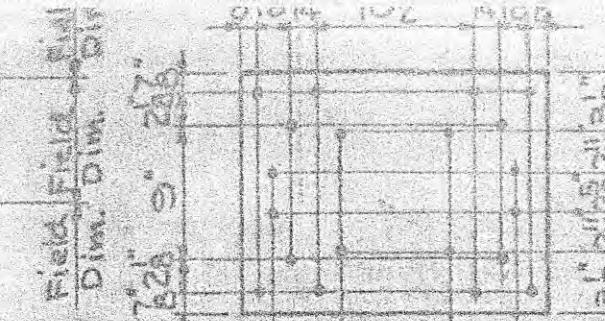
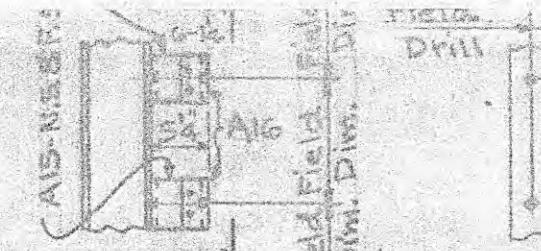
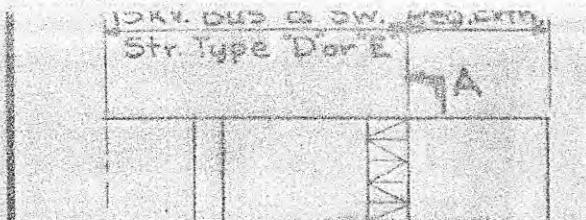
6"[@8.2[#]x0'-4"-AG]



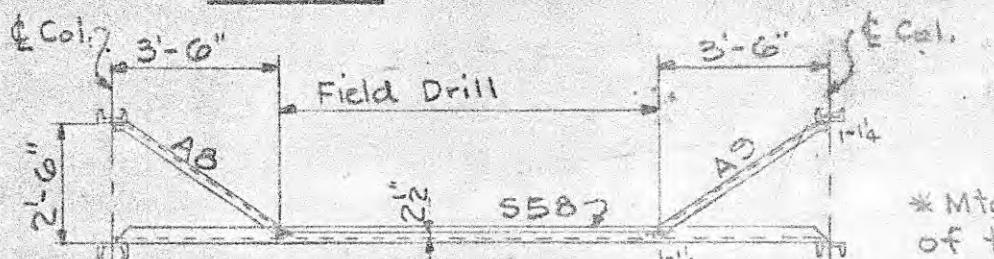
14x3x4x4'-2" - A7

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION
SUBSTATIONS GENERAL
ADDITIONAL MEMBERS FOR 15KV REGULATOR
EXTENSION ERECTION DIAGRAM & DETAILS

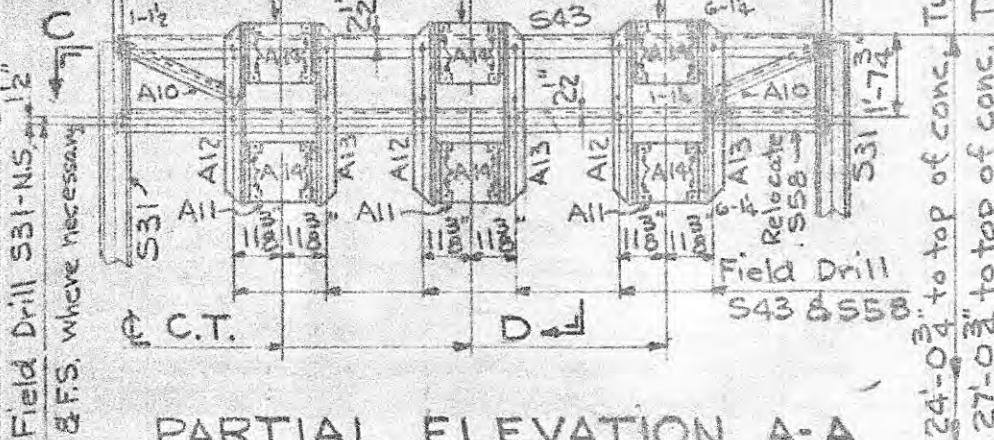
8-4-50 Admittance
None 50048



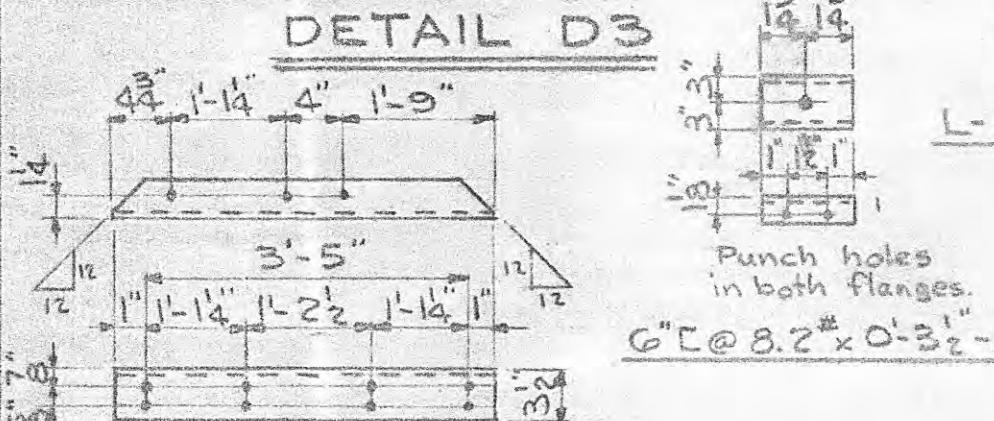
PLAN



SECTION C-C



PARTIAL ELEVATION A-A

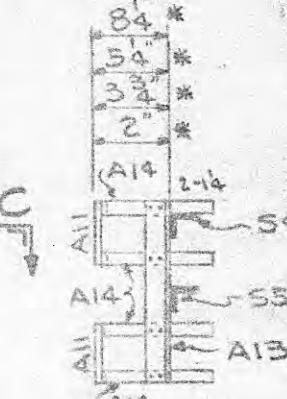


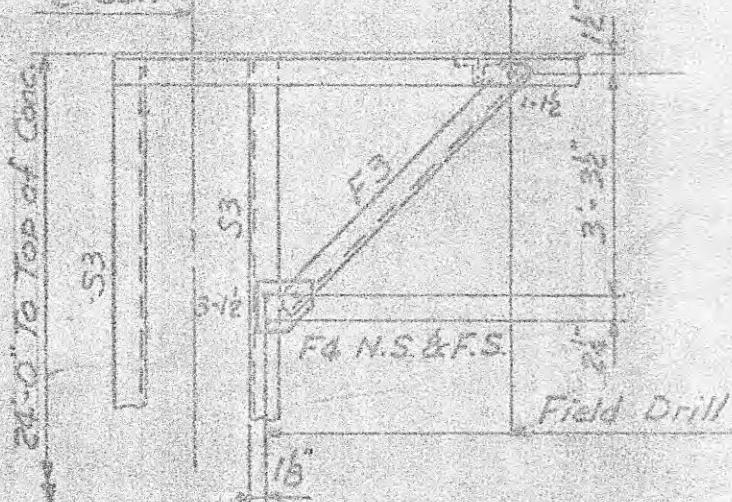
L-3 1/2 x 2 1/2 x 1/4 x 3'-7" - A12 - AS SHOWN
Do. x 3'-7" - A13 - OPP. HAND

SEC. E-E

DETAIL D4

* Mtg. can be at any of these positions.



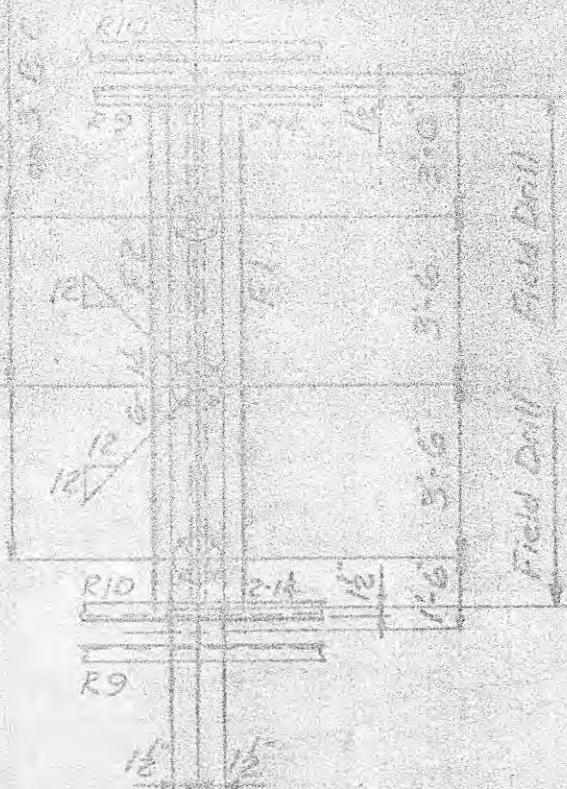


DETAIL D-5
KEY PLAN

X-X

4'-0"

E Col.



PLAN X-X

4'-0" (6 added)

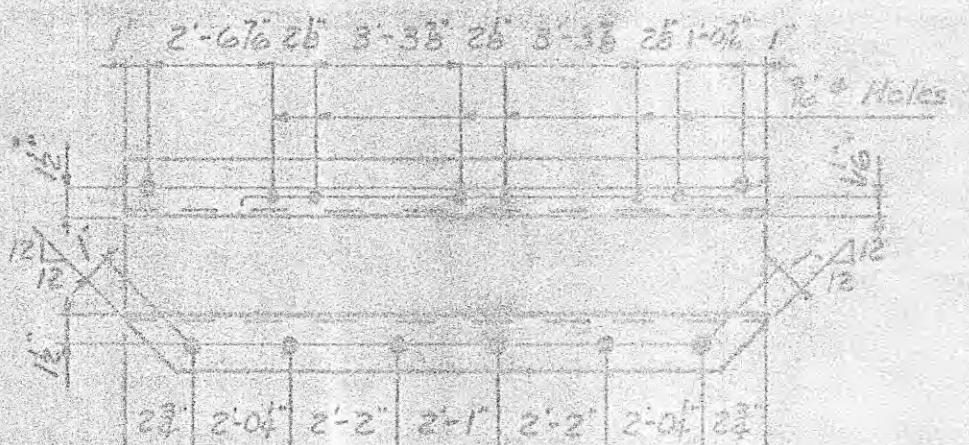
Cut 0.3 L 45° Both Ends

Punch Both Flanges

6" C @ 8 1/2" x d - 6 1/2 - F3

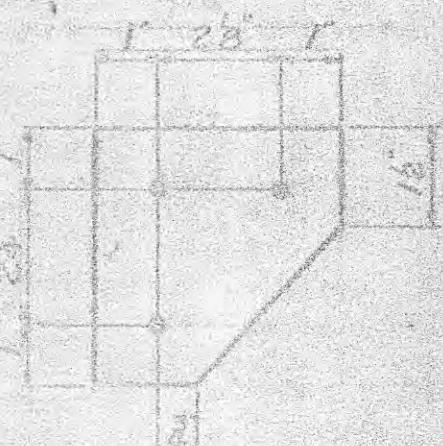
SECTION A-A (As Shown)

SECTION B-B (Opp. Hand)



L 3 x 3 x 96 x 10'-11" - F1 (As Shown)

Do x 10'-11" - F2 (Opp. Hand)



R 46 x 6 x 0'-9" - F4

Do x 0'-9" - F5 (Opp. Hand)

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

NOTES:

- Holes 1/2" unless noted
- Place marks to be die stamped before galvanizing.
- Material to be hot dip galvanized after fabrication.

REFERENCES:

- 15KV Str. Str. Type "B" -- LC-17485
- Req. Extr. Type "B" -- LC-21730

TENNESSEE VALLEY AUTHORITY

DIVISION OF POWER PLANNING AND ENGINEERING

SUBSTATIONS GENERAL

ADDITIONAL MEMBERS FOR 15KV REGULAR
EXTENSION ERECTION DIAGRAM & DETAILS

REV. NO.	DATE	DECR.	DRWGS.	SPCS.	PPR.
01	5-5-62	PL	100	100	100

REV. NO.	DATE	DECR.	DRWGS.	SPCS.	PPR.
N.T.S.	5-5-62	PL	100	100	100