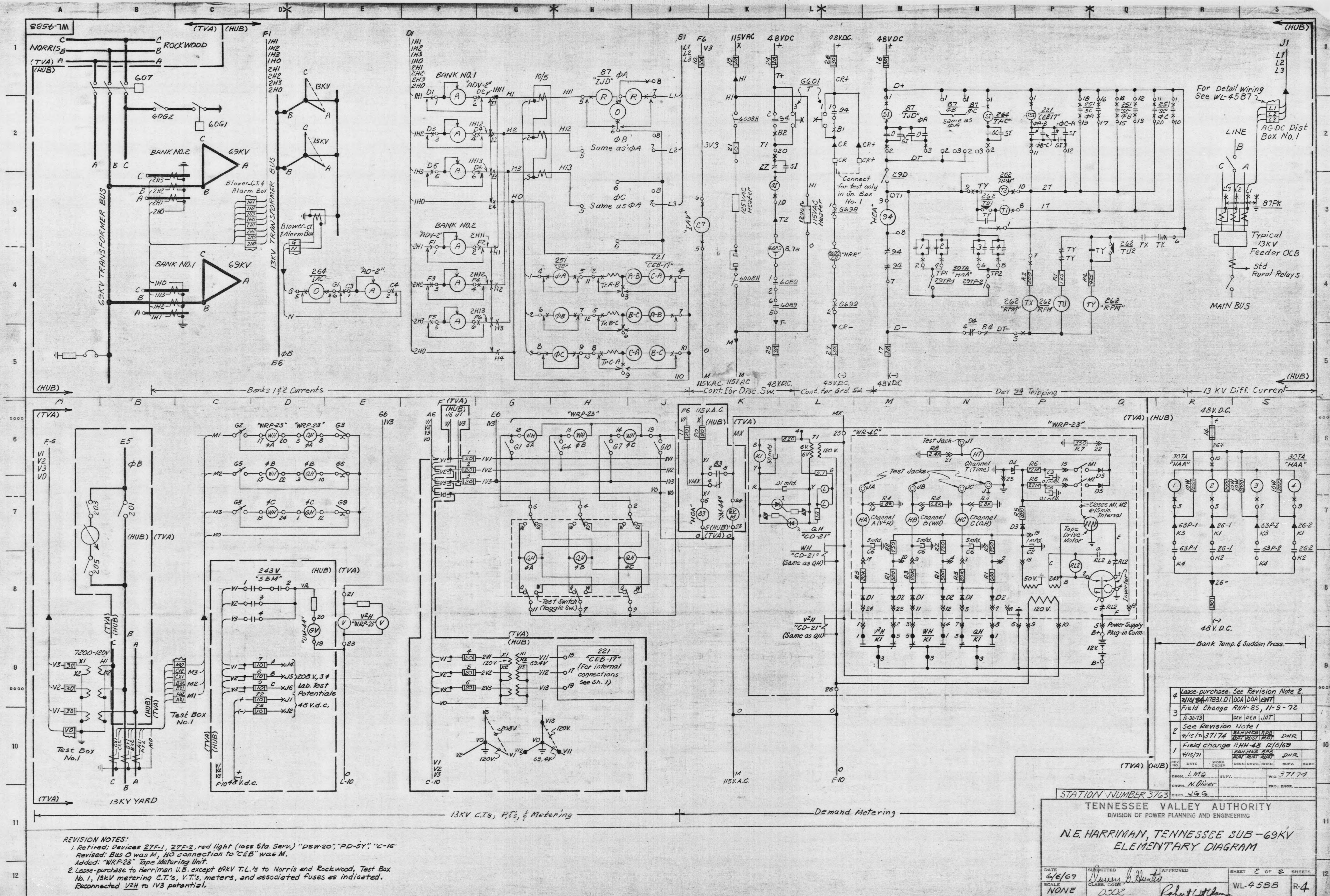
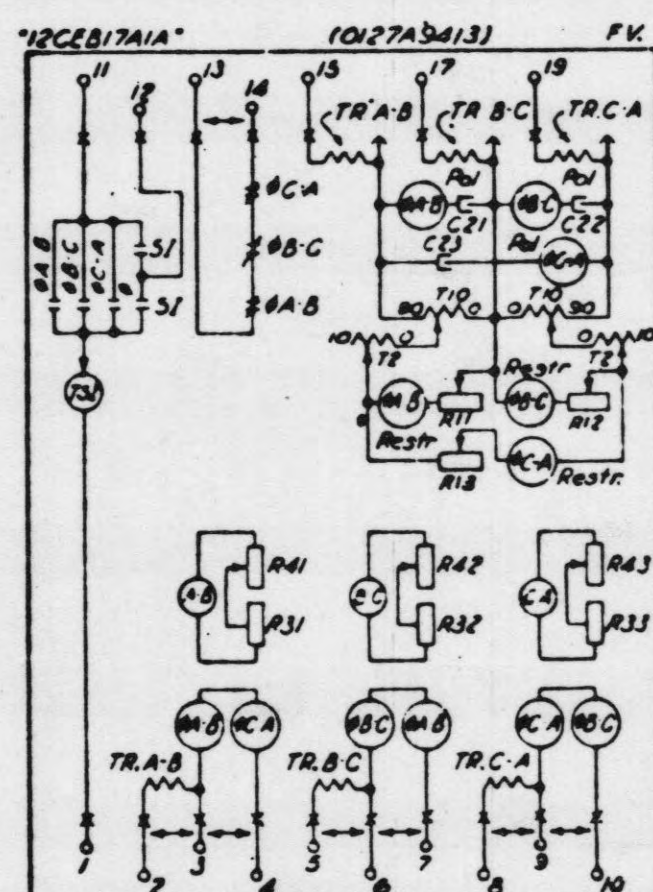




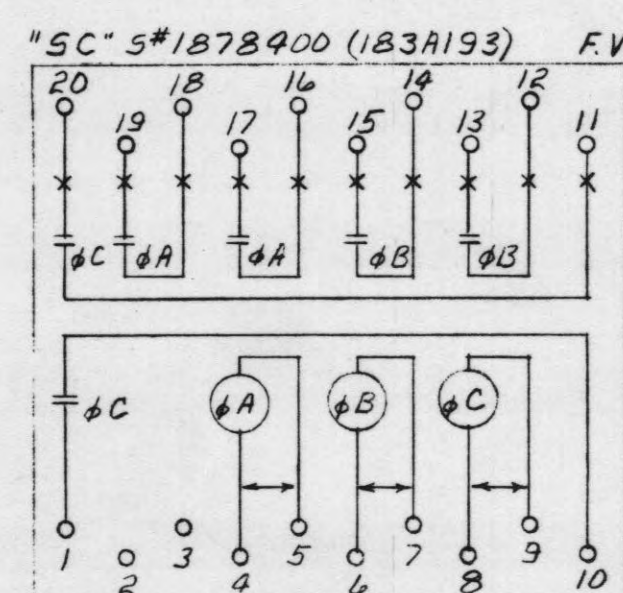
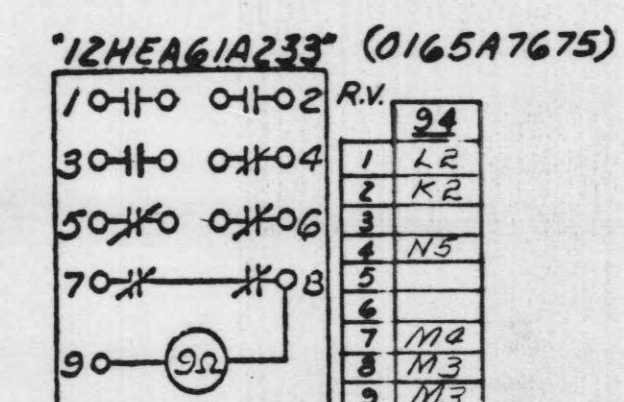
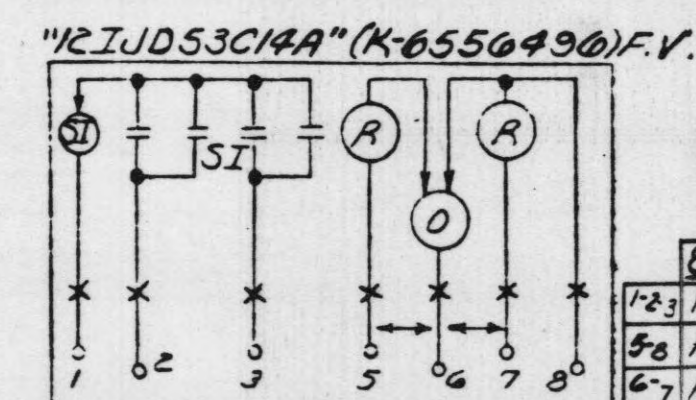
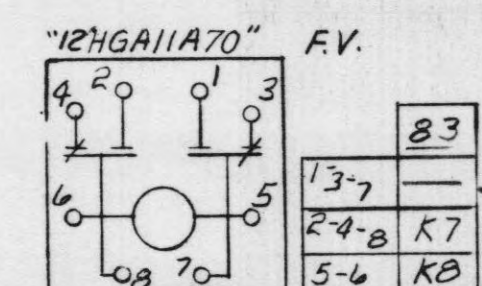
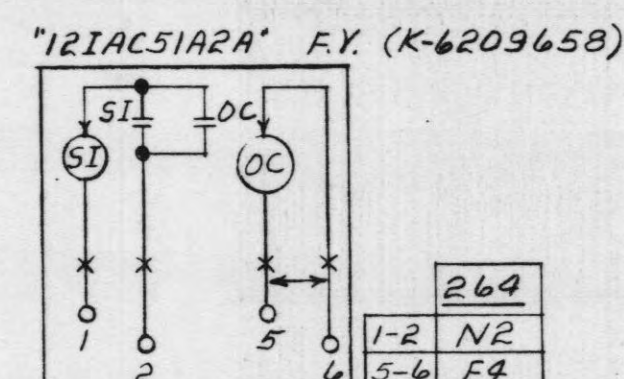
STATION NUMBER 3763		DRWN. T. G. H. P. E.	PROJ. ENGR.
CHKD. J. G. S.			
TENNESSEE VALLEY AUTHORITY DIVISION OF POWER PLANNING AND ENGINEERING			
N.E. HARRIMAN, TENNESSEE SUB - 69KV ELEMENTARY DIAGRAM			
DATE 6/6/69	SUBMITTED <i>Dwight B. Hunter</i>	APPROVED	SHEET 2 OF 2 SHEETS
SCALE NONE	CLASS. CODE D302	<i>Robert W. Clancy</i>	WL-4588 R-4

"SBM10AG622"					R.V.
CONTACTS	HANDLE END	POSITIONS	3	2	
1	1	X	2	1	OFF
2	2	X	X	X	D5
3	3	X	X	X	D5
4	4	X	X	X	D5

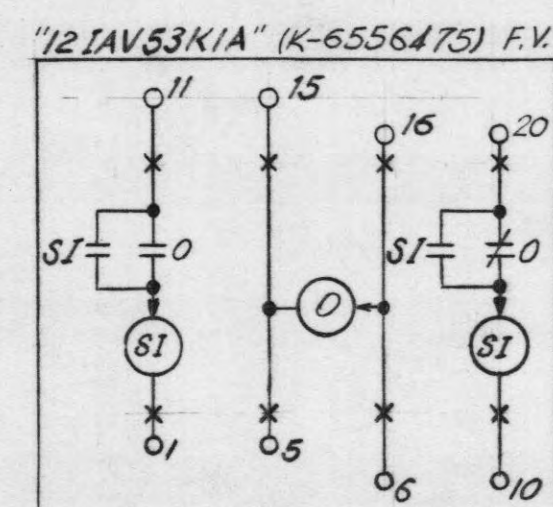
"1/6SB18B218"					6601
CONTACTS	HANDLE END	POSITIONS	3	2	
1	1	X	2	1	L-2
2	2	X	X	X	D5
3	3	X	X	X	D5
4	4	X	X	X	D5



221	
11-12	D2
13-14	U4
15-16	U4
17-18	U4
19-20	U4
21-22	U4
23-24	U4
25-26	U4
27-28	U4
29-30	U4
31-32	U4
33-34	U4
35-36	U4
37-38	U4
39-40	U4
41-42	U4
43-44	U4
45-46	U4
47-48	U4
49-50	U4
51-52	U4
53-54	U4
55-56	U4
57-58	U4
59-60	U4
61-62	U4
63-64	U4
65-66	U4
67-68	U4
69-70	U4
71-72	U4
73-74	U4
75-76	U4
77-78	U4
79-80	U4
81-82	U4
83-84	U4
85-86	U4
87-88	U4
89-90	U4
91-92	U4
93-94	U4
95-96	U4
97-98	U4
99-100	U4

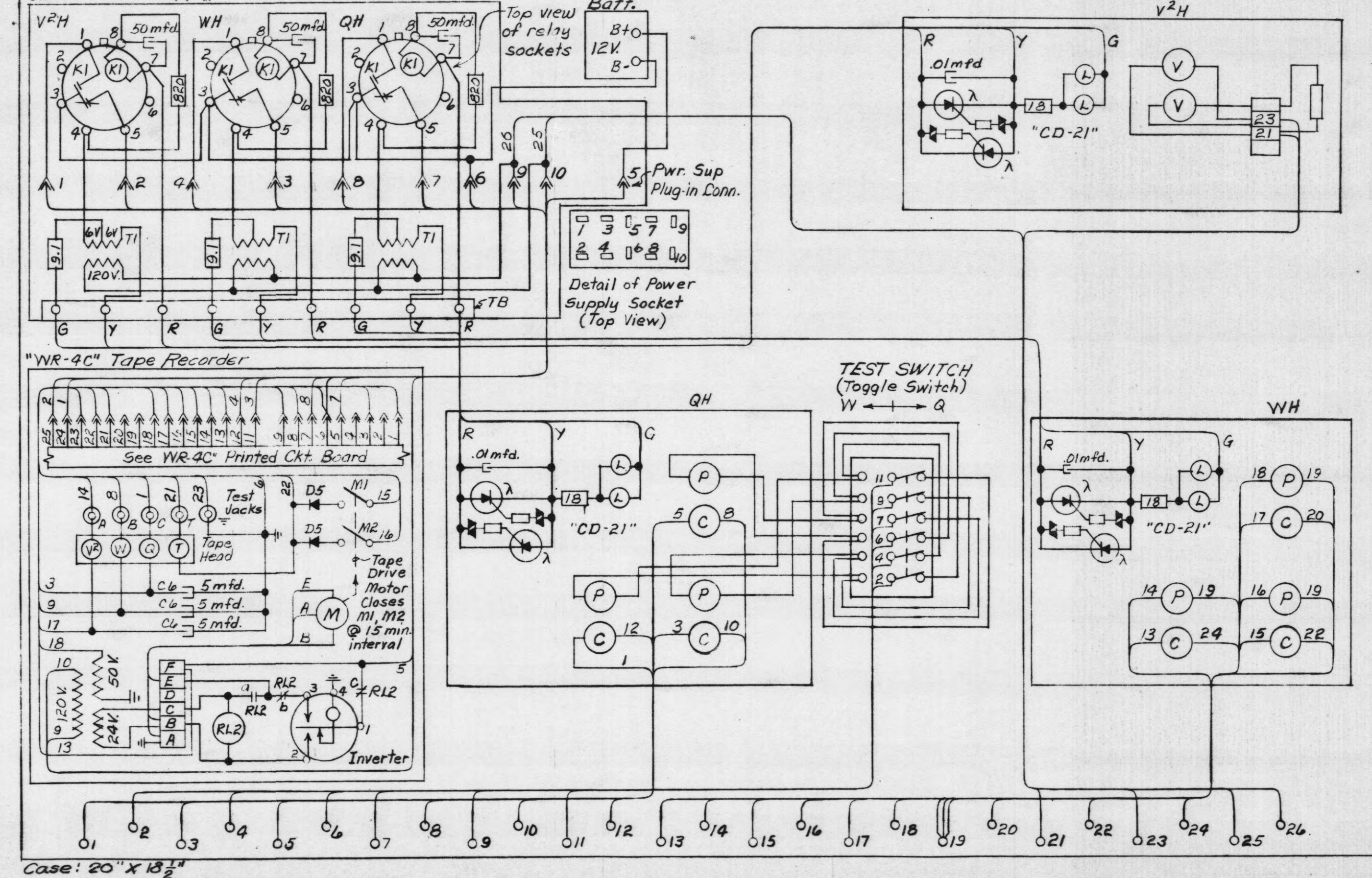


251	
1-10	R2
11-20	H4
21-30	H4
31-40	H4
41-50	H4
51-60	H4
61-70	H4
71-80	H4
81-90	H4
91-100	H4
101-110	H4
111-120	H4
121-130	H4
131-140	H4
141-150	H4
151-160	H4
161-170	H4
171-180	H4
181-190	H4
191-200	H4
201-210	H4
211-220	H4
221-230	H4
231-240	H4
241-250	H4
251-260	H4
261-270	H4
271-280	H4
281-290	H4
291-300	H4
301-310	H4
311-320	H4
321-330	H4
331-340	H4
341-350	H4
351-360	H4
361-370	H4
371-380	H4
381-390	H4
391-400	H4
401-410	H4
411-420	H4
421-430	H4
431-440	H4
441-450	H4
451-460	H4
461-470	H4
471-480	H4
481-490	H4
491-500	H4

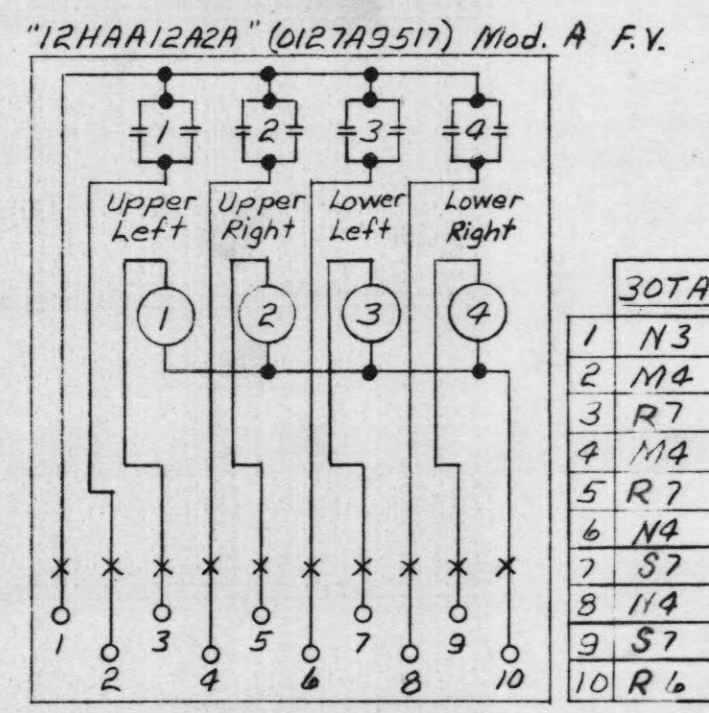


27	
1-11	—
12-20	K3

"WRP-23" Tape Metering Unit (TVA)
"CD-21" Power Supply



(TVA)	
1-12	D7
13-20	D7
21-28	D7
29-36	D7
37-44	D7
45-52	D7
53-60	D7
61-68	D7
69-76	D7
77-84	D7
85-92	D7
93-100	D7
101-108	D7
109-116	D7
117-124	D7
125-132	D7
133-140	D7
141-148	D7
149-156	D7
157-164	D7
165-172	D7
173-180	D7
181-188	D7
189-196	D7
197-204	D7
205-212	D7
213-220	D7
221-228	D7
229-236	D7
237-244	D7
245-252	D7
253-260	D7
261-268	D7
269-276	D7
277-284	D7
285-292	D7
293-300	D7



30TA	
1	N3
2	M4
3	R7
4	M4
5	R7
6	N4
7	S7
8	N4
9	S7
10	R4

REFERENCES:
Single Line Diag.
Three Line Diag.
13KV Meter & Relay Cab.

WL-4545
WL-4587
WL-4679

All Internals are indexed to
Sh. 2 of this drawing

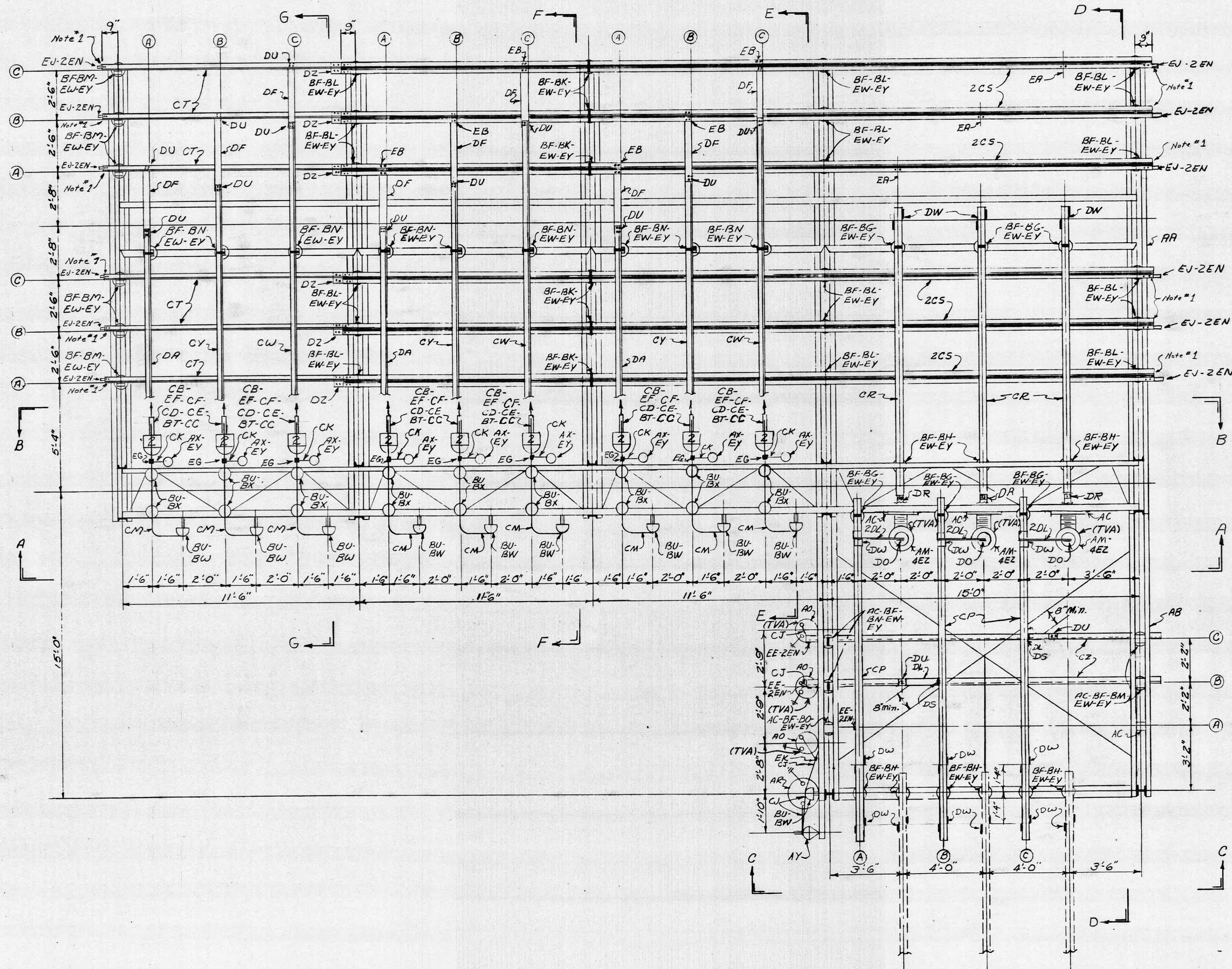
STATION NO. 3763			
TENNESSEE VALLEY AUTHORITY DIVISION OF POWER PLANNING AND ENGINEERING			
N. E. HARRIMAN, TENN., SUBSTATION - 69 KV.			
ELEMENTARY DIAGRAM INTERNAL CONNECTIONS			
DATE 6/6/69	SUBMITTED Dewey G. Hunter	APPROVED Robert C. St. Clair	SHEET 1 OF 2 SHEETS
SCALE None	CLASS CODE 2302	WL-4588	R-4

REVISION NOTES:

- Retired: "DSW-20", "PD-5Y", "C-16"
- Revised: Index No's as required.
- Added: "WRP-23" Tape Metering Unit.

DEVICE SERIES		
1-99	Device series for equipment general to station	
200	" " " " " 13KV	
6000	" " " " " for switch 607	
6600	" " " " " for grd. sw. 60G1	
DEVICE	TYPE	FUNCTION
SWITCHBOARD		
221	CEB17	Distance relay
27	IAY	A.C. undervoltage relay
30TA	HAA	Target tripping & alarm relay
243V	SBM	Voltmeter transfer switch
251	SC	Overcurrent relay
262	RPM	Timing relay
264	IAC	Overcurrent ground relay
83	HGA	Graphic voltmeter chart drive transfer relay
87	IJD	Bank differential relay
94	NEA	Aux. tripping relay
6601	SB1	Control switch for grounding switch
One element thermal demand ammeter		
Three element thermal demand		
Graphic voltmeter		
Tape Metering Unit.		
BANK		
Hot spot temperature contacts		
SWITCH 607		
Air-break switch		
Trip coil		
GROUNDING SWITCH 60G1		
Grounding switch		
Close release coil		

To Harriman Utility Board
556.5 Mcm 26/7 Str. ACSR



REFERENCES:

Bill of Material	---	BMC-49693
General Arrangement Plan(Initial)	---	LC- 47897
Foundation Plan	---	LC- 49682
Yard Improvement Plan	---	LC- 49684
69-13 Kv Power Transf. Bank	---	LC-49688

NOTES:

1. Drill ends of Main & Transfer buses for future extension per MC-36996, Sh. #3 & 4.
2. All bolted aluminum connections to be made per SC-37447.

From 69-13 Kv Power Transf. Bank
4"x4" Integral Web Channel
See LC-49688

Lease-purchase to Harriman U.B. except 13k
metering C.T.'s and V.T.'s.

2	2/10/84	A7831.01	DOA	DOA	ENT
1	Field Change JRD 11-13-69				

1	11-10-72
---	----------

REV	DATE
-----	------

NO.	
ROOM	

DSGN. ----
 DRAWN *P(1)*

CHRD - *MM*

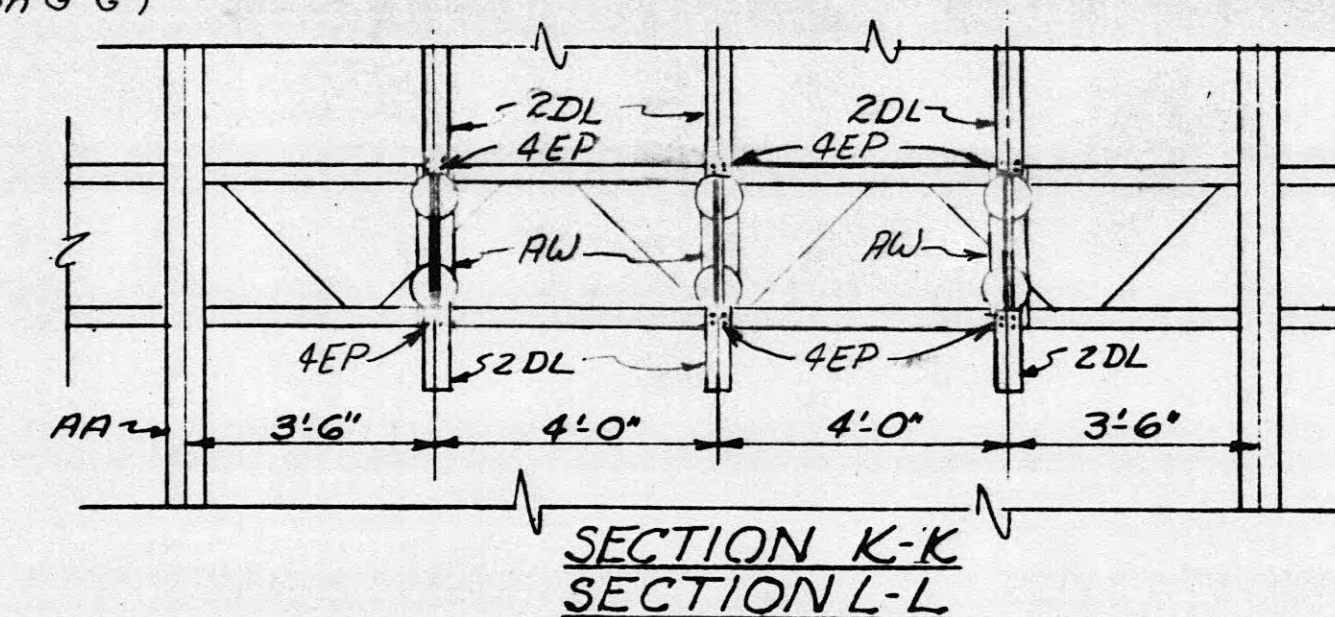
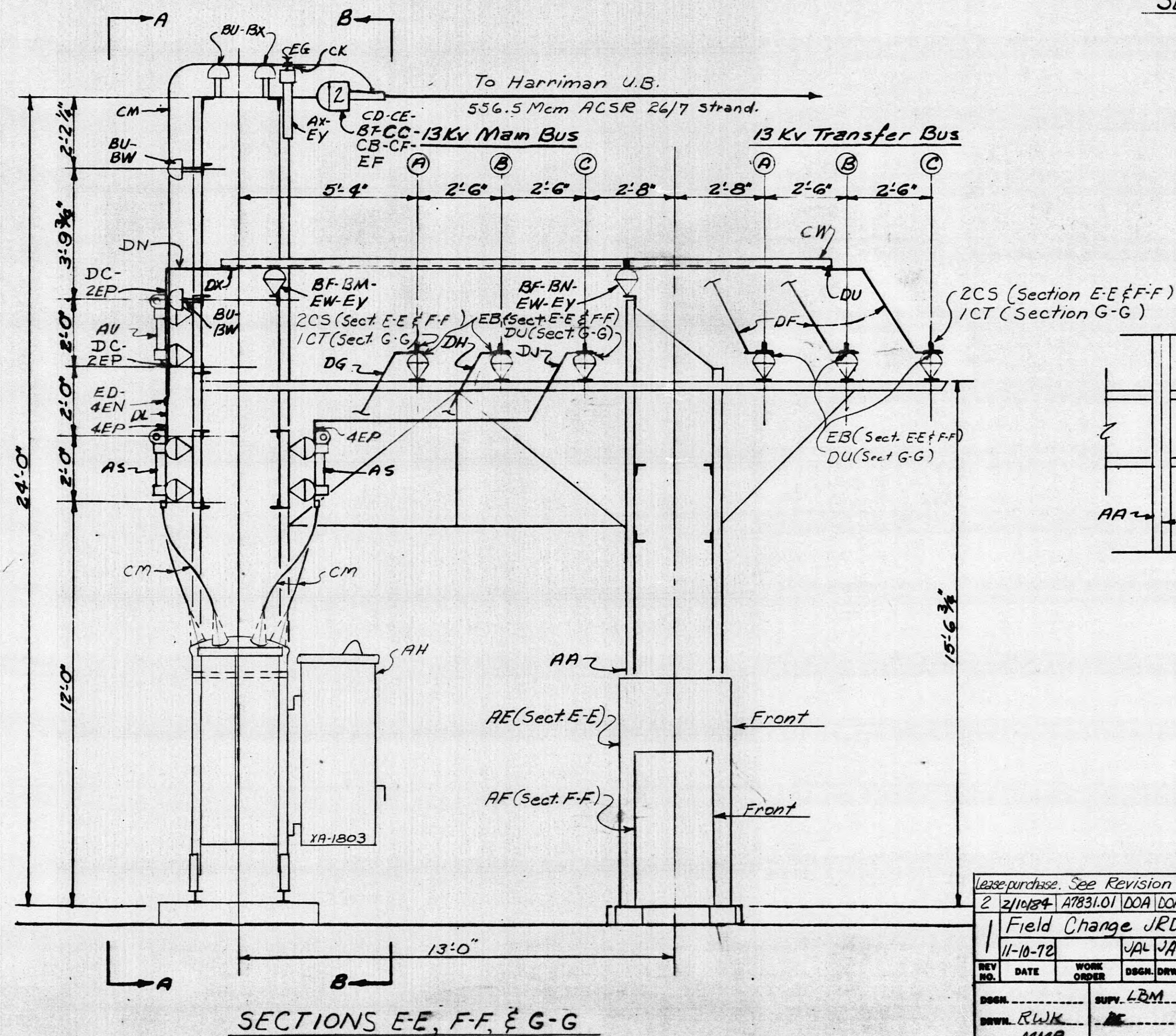
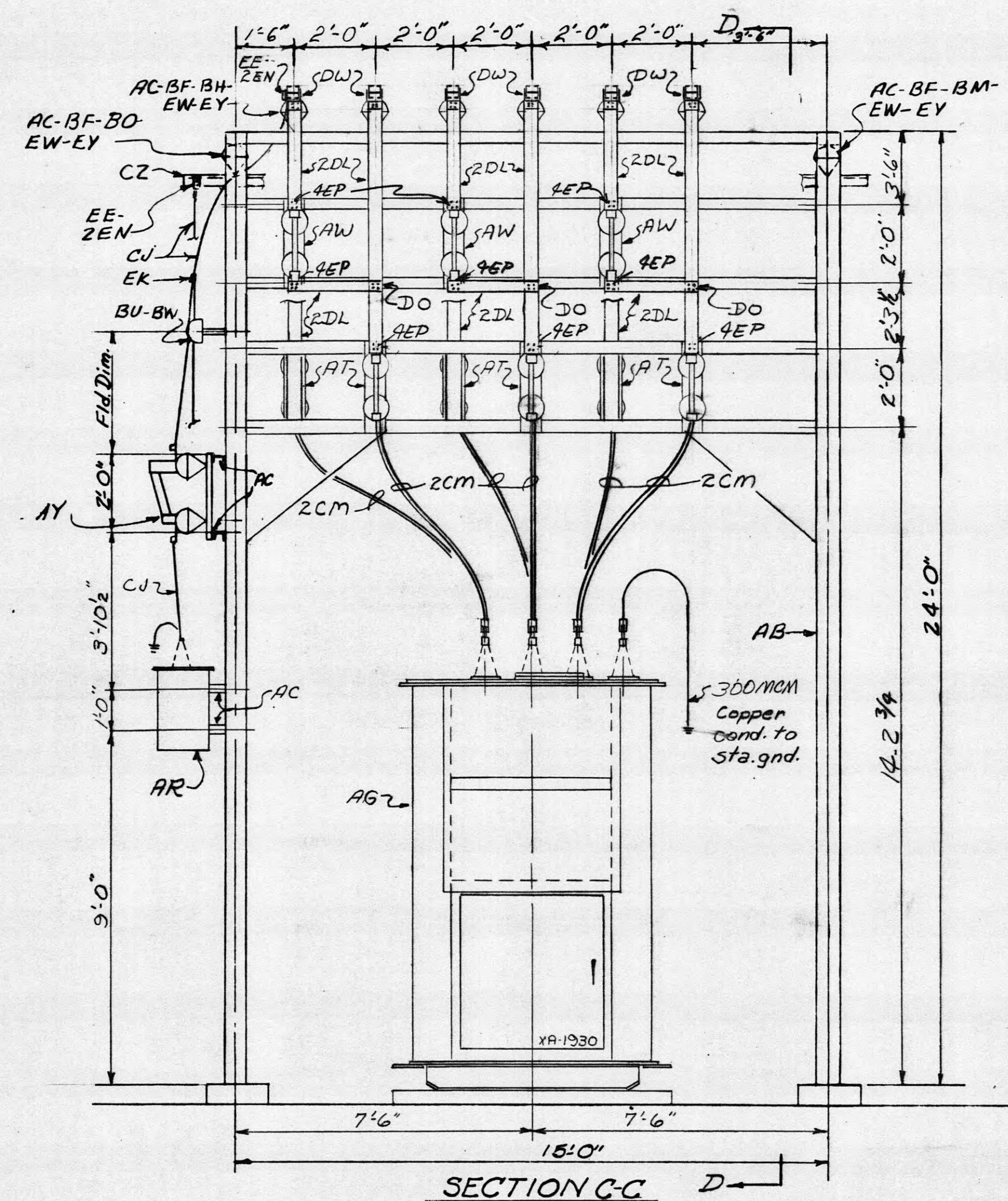
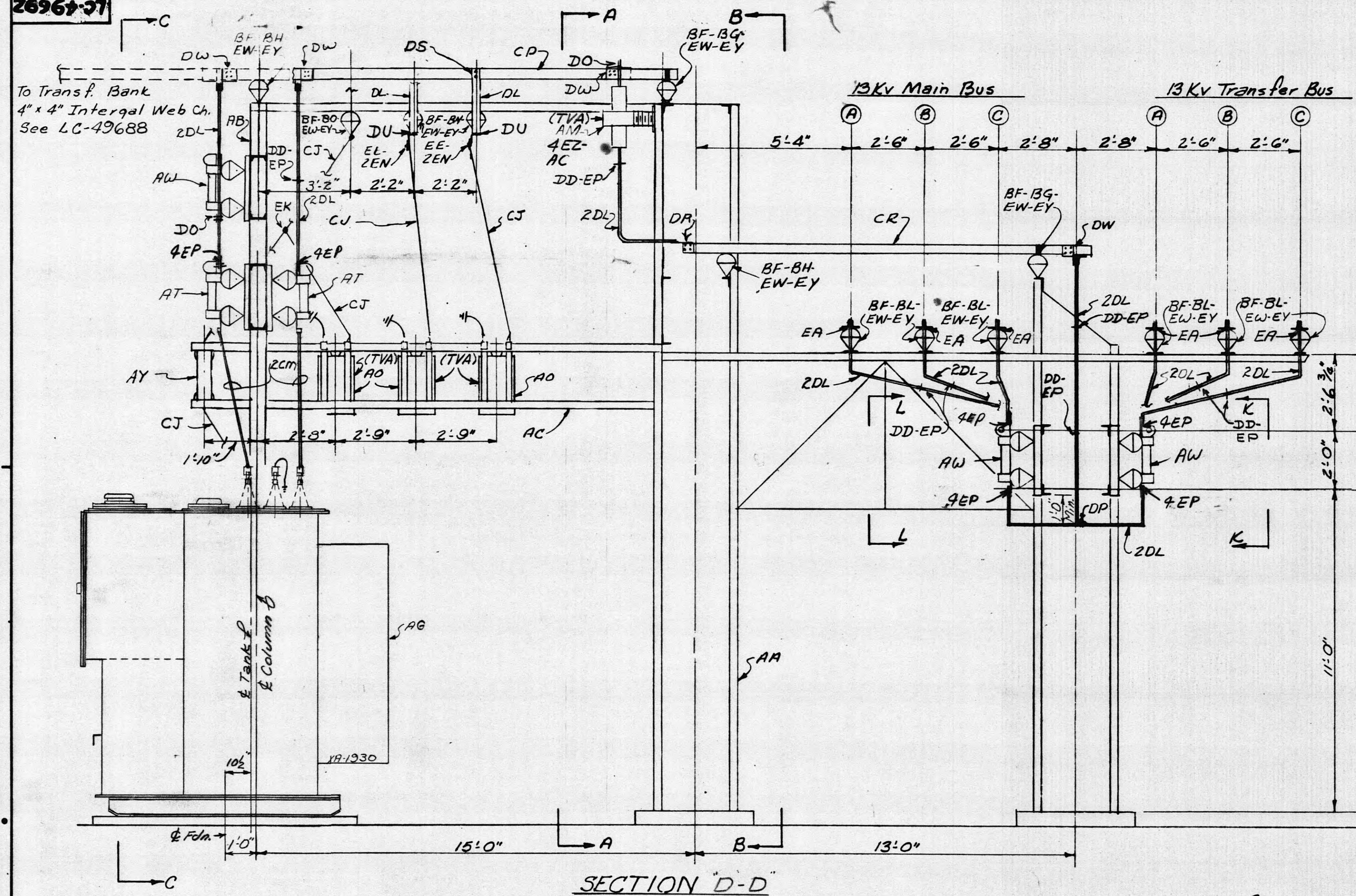
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TENNESSEE VALLEY AUTHORITY

N.E. HARRIMAN, TENN., SUBSTATION-69 KV.
13 KV SWITCHGEAR - TYPE 'B' & 'D'
PLAN & SECTIONS

DATE 5-26-69	SUBMITTED <i>James B. Linn</i>	APPROVED	SHEET 1 OF 3	SH
SCALE 3/4" = 1'-0"	CLASS CODE A0521	<i>Robert W. Linn</i>	LC-4969Z	R.

[illegible]



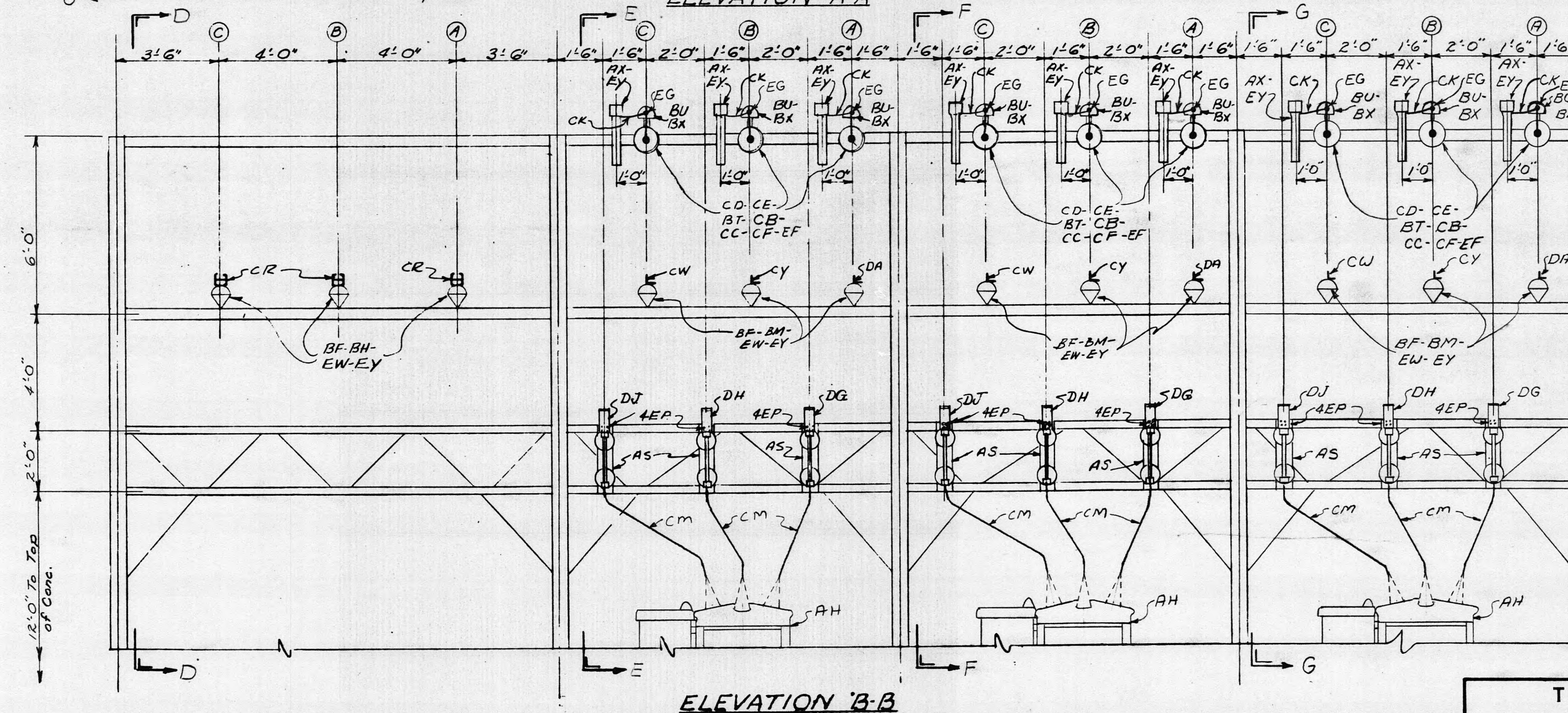
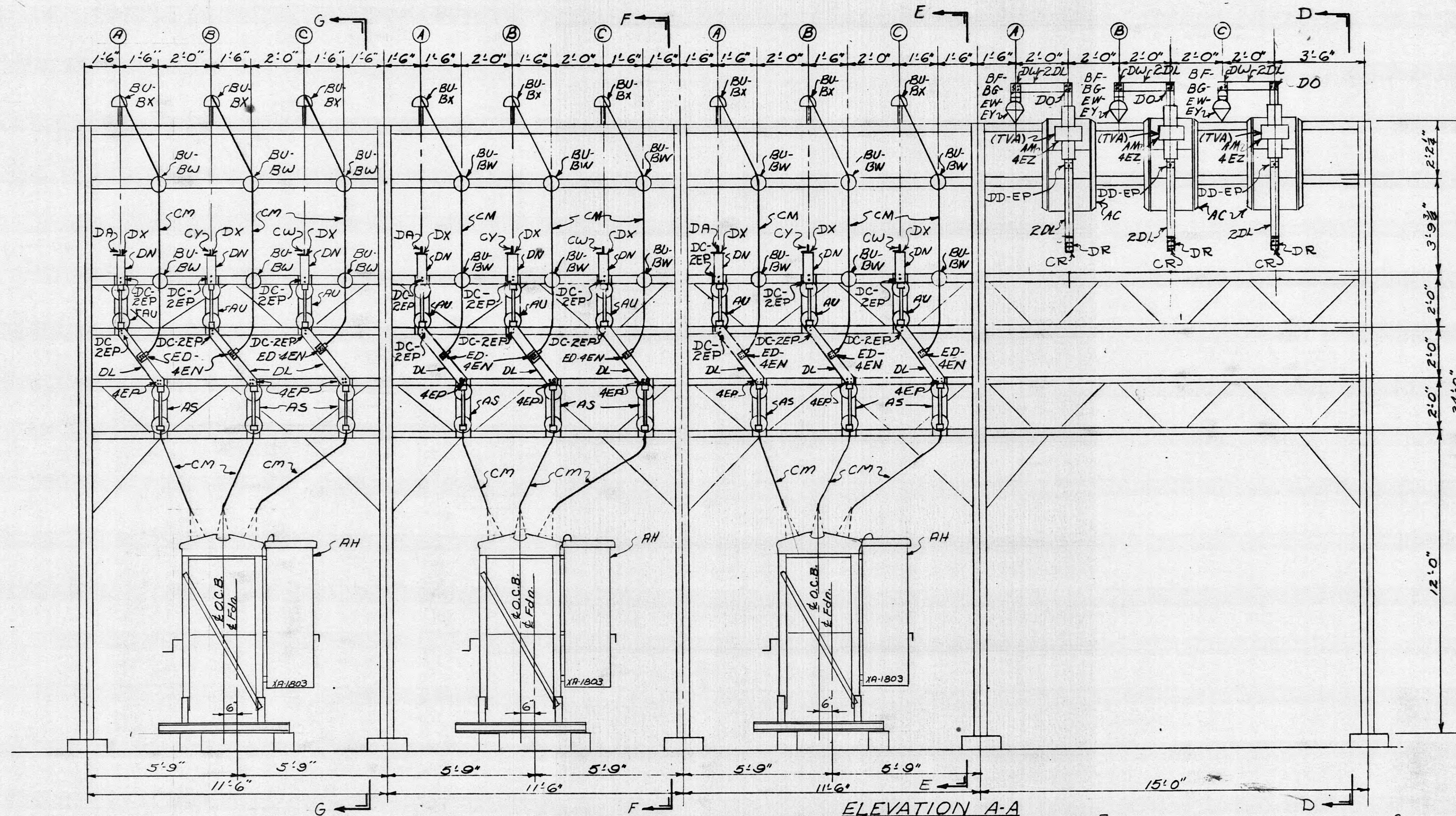
REFERENCE:
Bill of Material-----BMC-49693

TENNESSEE VALLEY AUTHORITY

N.E. HARRIMAN, TENN., SUBSTATION-69KV.
13KV SWITCHGEAR-TYPE 'B' & 'D'
PLAN & SECTIONS

lease purchase. See Revision Note 2, Sh. 1						
2	210184	A7831.01	DOA	DOA	EWT	
1	Field Change JRD			11-13-69		
	11-10-72		JAL	JAL	JHT	
REV NO.	DATE	WORK ORDER	DSGN.	DRWN.	CHEK.	SUPP.
DSGN.			SUPP.	LDM		W.O. 3717
DRWN.	RMK					PROJ. ENGR.
CHEK.						

DATE 5-26-69	SUBMITTED BY <i>Frank W. Smith</i>	APPROVED	SHEET 3 OF 3 SHEETS
SCALE 3" = 1'-0"	CLASS COT	<i>Robert J. Wilson</i>	LC 49692 R-2



REFERENCES:
Bill of Material-----BMC--49693

Lease Purchase See Revision Note 2, Sh. 1.					
2 210184 17831.01 DOA DOA/INT					
Field Change JRD 11-13-69					
REV	NO.	DATE	WORK ORDER	DESIGN, DRAWN, CHECKED	SUPPLY, APPROVED
		11-10-72		JPL VPL JNT	
DESIGN			SUPPLY	LPM	W.O. 37174
DRAWN	BLW			RC	
CHECK	MMR				PROJ. ENGR.

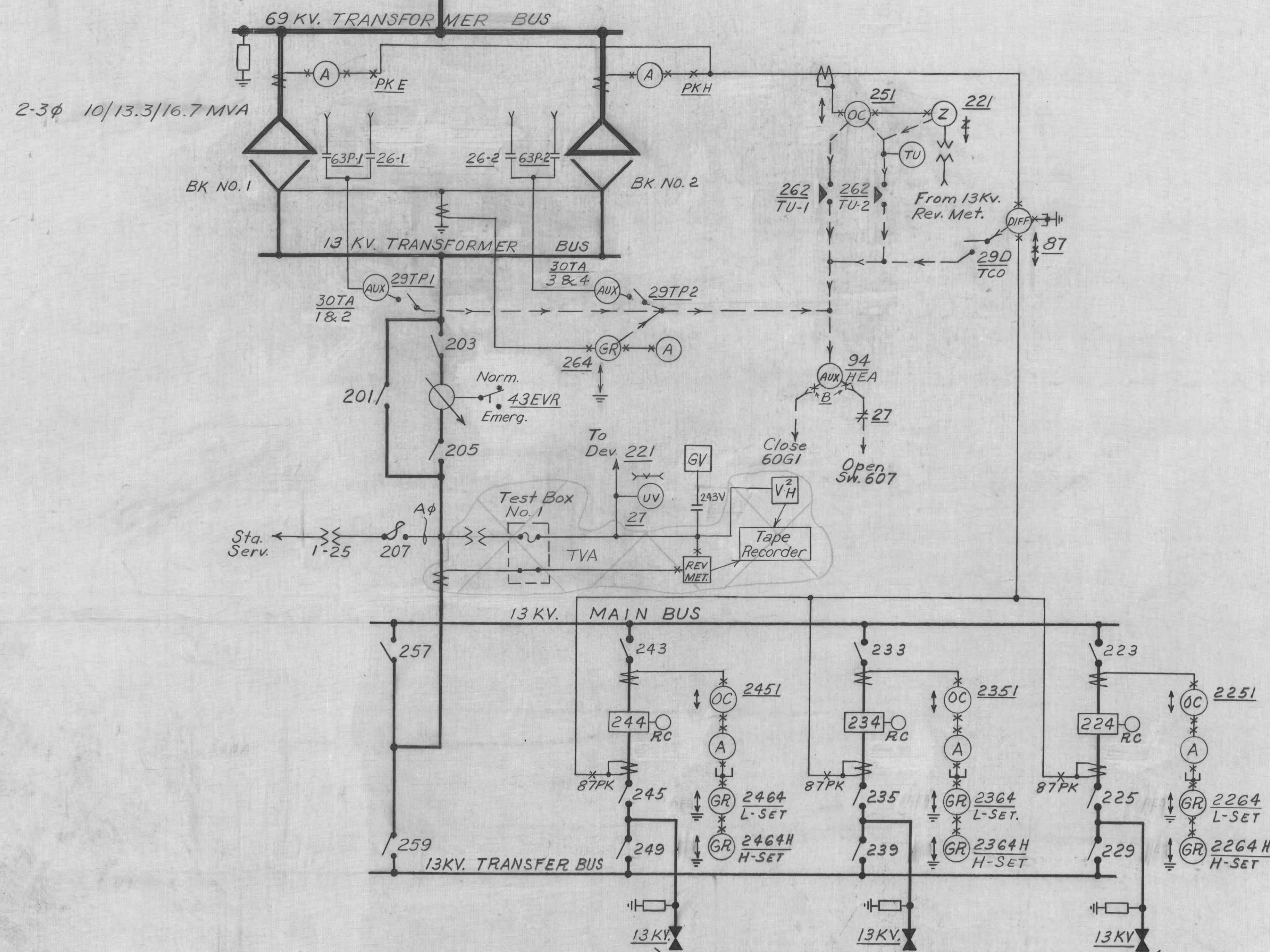
TENNESSEE VALLEY AUTHORITY DIVISION OF POWER PLANNING AND ENGINEERING					
N.E. HARRIMAN, TENN., SUBSTATION-69KV 13KV SWITCHGEAR TYPE 'B'D'					
PLAN & SECTIONS					
DATE	5-26-69	CHECKED	THL	APPROVED	
SCALE	3/4"=1'-0"	CLASS CODE	H052U	DATE	11-13-69
SHEET 2 OF 3 SHEETS				LC49692R-2	

HARRIMAN
OCB 694
4.44 Mi.

69 KV
613 615

TVA

OLIVER SPRINGS
7.24 Mi.



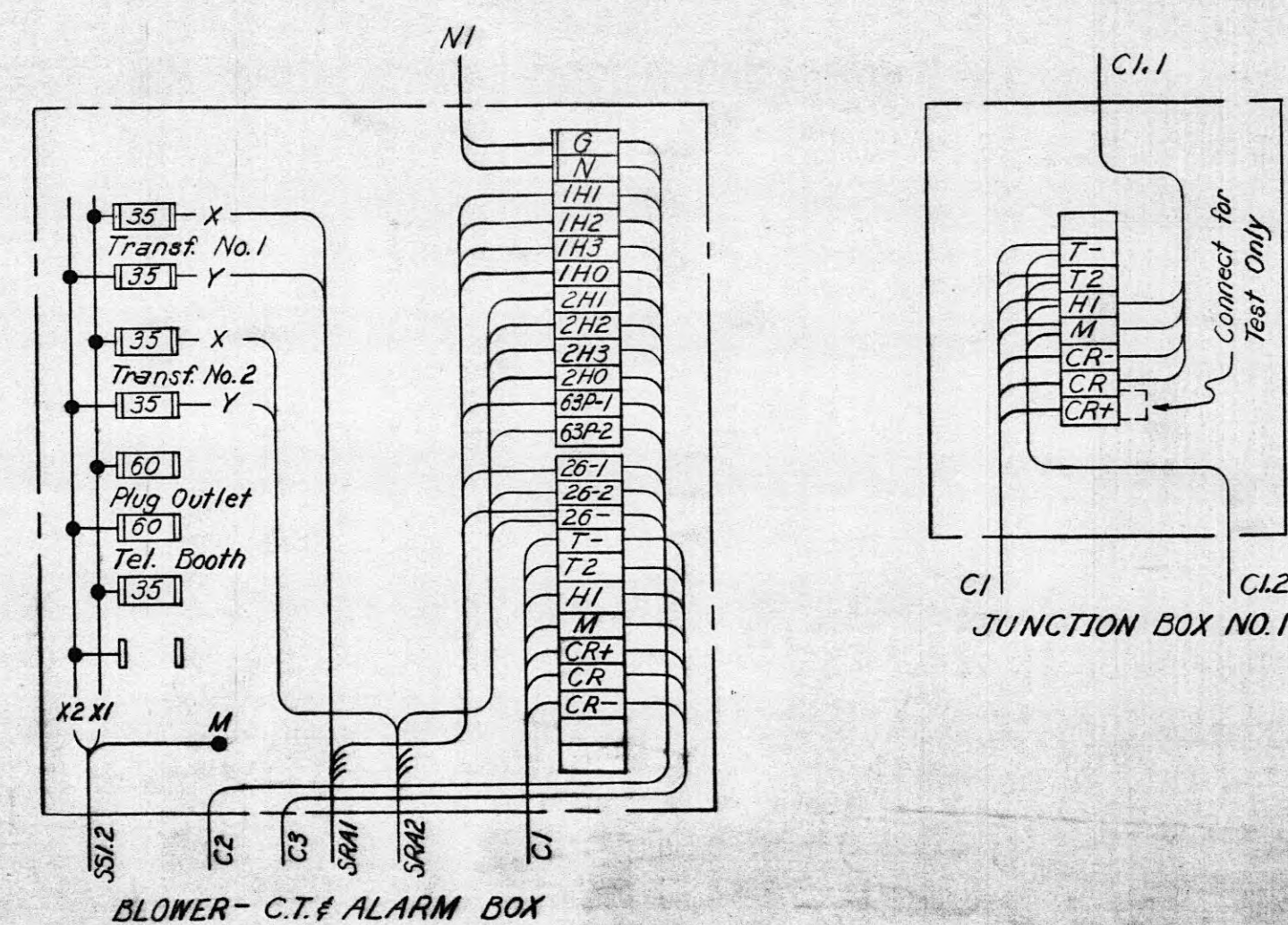
Lease-Purchase					
3	5-21-84	VS	VS	W.C. Lumsden	David M. Belling
REV	DATE	DESIGN	DRAWN	APPROVED	SUPERVISOR

7-1-69
DSGN. AAD
DRWN. AAD
CHKD. J.J.M.
SUPV. W.O. INT. 37174
W.O. CURR.

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER SYSTEM OPERATIONS

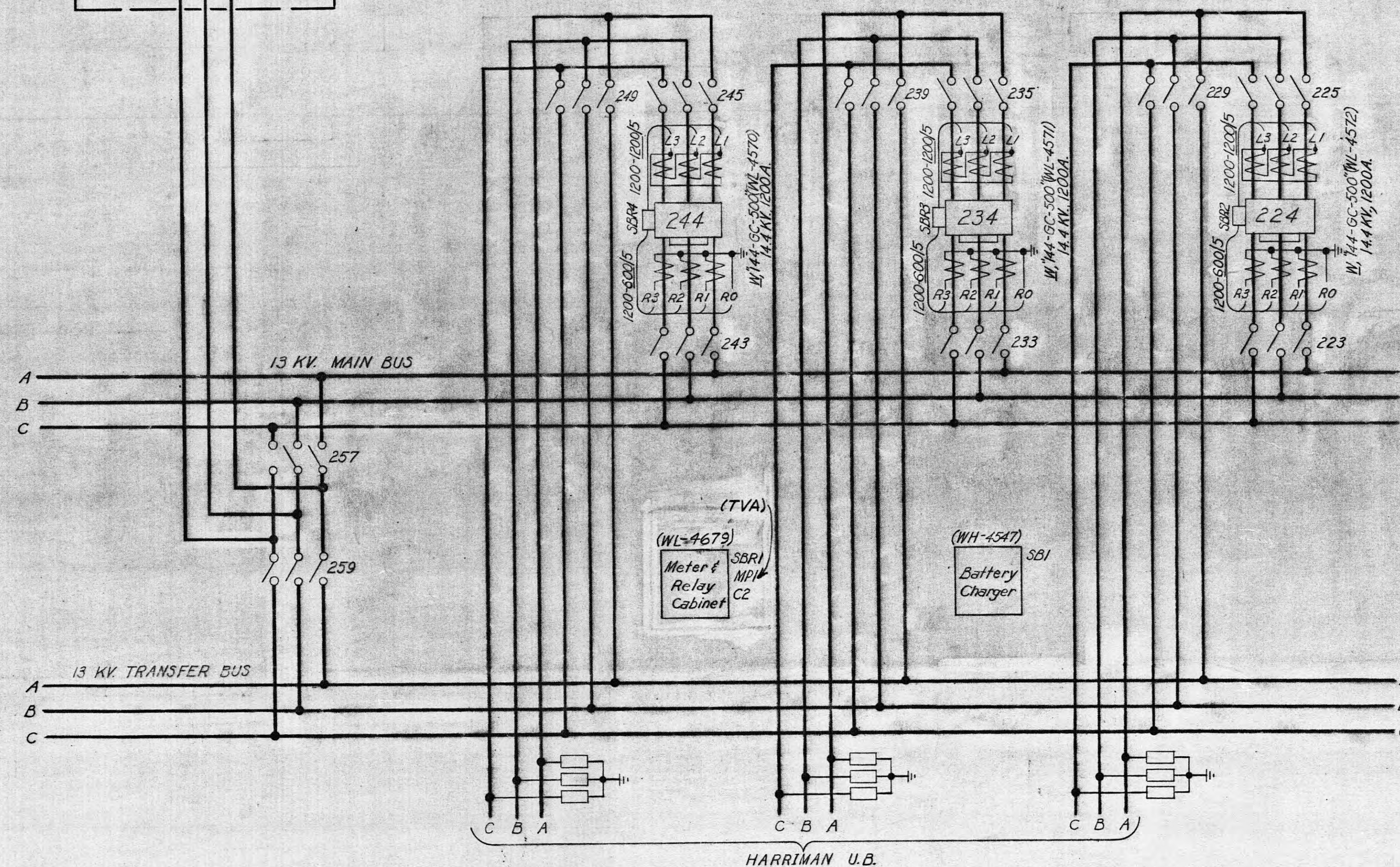
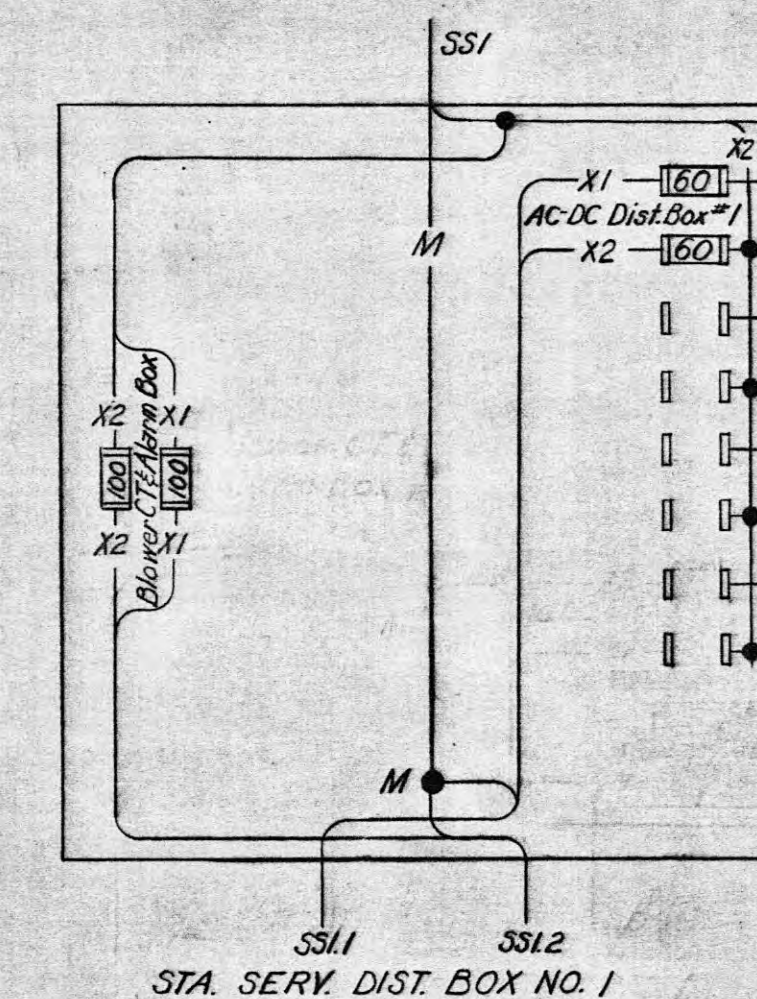
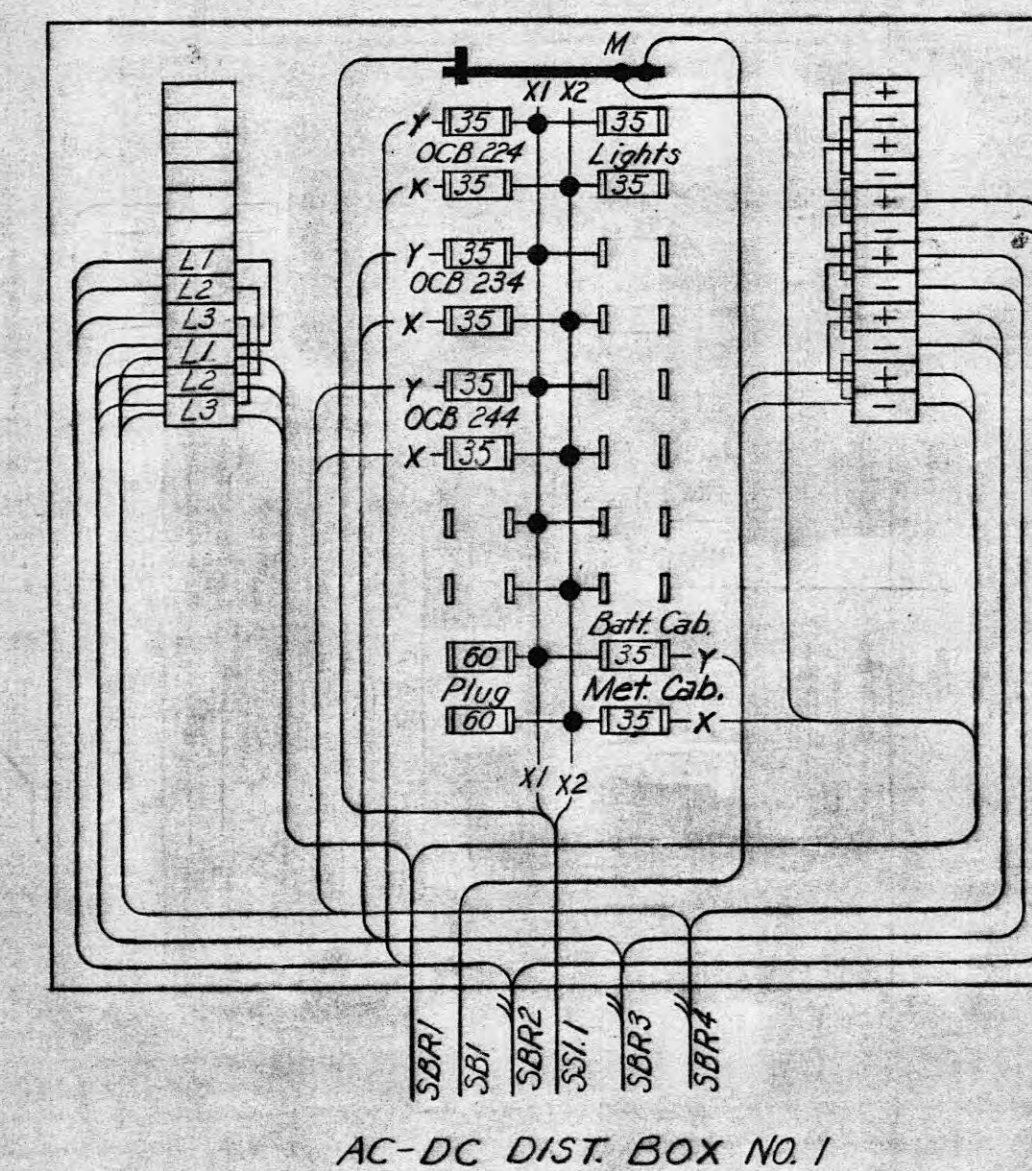
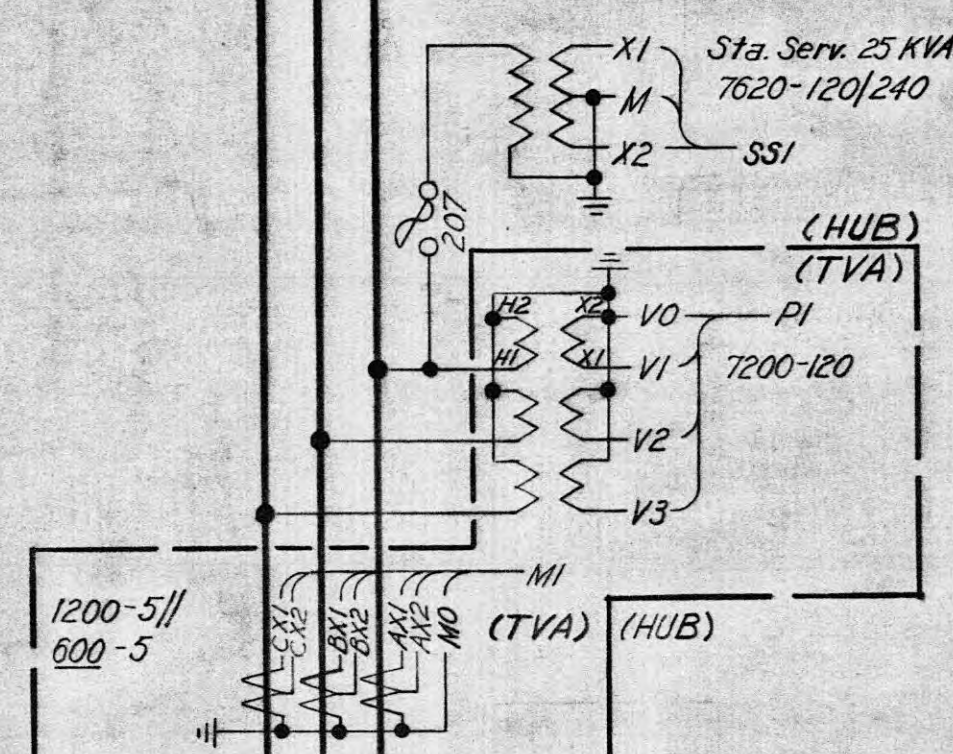
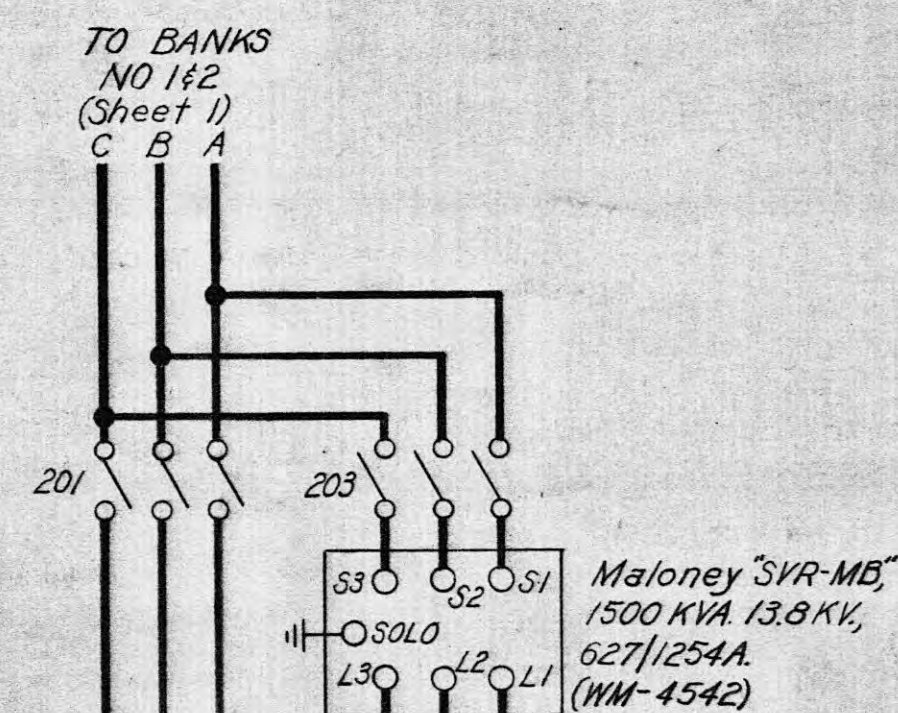
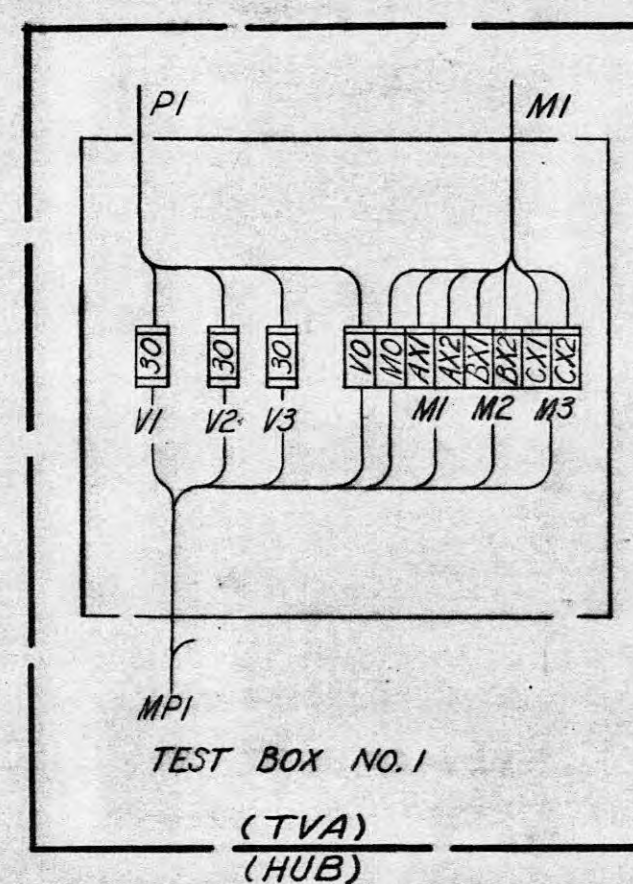
N. E. HARRIMAN

DATE 7-1-69
SCALE None
SUBMITTED J.F. Manette
APPROVED Stanley A. Park
LOC. 0301 843139-355741
SHEET 1 OF 1 SHEETS
PSO 3763 R-3



REFERENCES:	
<i>Single Line Diagram</i>	<i>WL-4545</i>
<i>Elementary Diagram</i>	<i>WL-4588</i>
<i>Conduit Plan & Details</i>	<i>LC-49979</i>
<i>Conduit & Cable List</i>	<i>CMC-49981</i>

3		Lease-purchase to Harriman U.B. except 69KV T.L.'s to Harriman to Petros.		TENNESSEE VALLEY AUTHORITY		DIVISION OF POWER PLANNING AND ENGINEERING		STATION NO. 3705	
2		2/10/84 A7831.01 LOA LOA EWT		N.E. HARRIMAN, TENN. SUBSTATION - 69KV					
2		Field Change RH4-48 12/3/69		THREE LINE DIAGRAM					
4		4/15/74		RAH MCB RPB RUST RUST RUST		DNR		69 KV YARD & TRANSFORMER BANK	
1		Corrected tap str. Switch numbers 8/6/69 3 7 1 7 4		DNR		DNR			
REV.	DATE	WORK ORDER	DSGN	DRWN	CHKD	SUPV	APPD		
DSGN.	LMG		SUPV	W.O.		37174		DATE	5/6/69
ORVN.	MFA		PROJ. ENGR.	SUBMITTED BY		APPROVED		SHEET	1 OF 2 SHEETS
CHDR.	JGS		SCALE	CLASS.		CODE		WL-4587	R 3



REVISION NOTES:

1. Lease-purchase to Harriman U.B. except 13KV metering C.T.'s and V.T.'s, Test Box No. 1, and cables MI, PI, MPI.

STATION NO. 3763

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING

N.E. HARRIMAN, TENNESSEE SUB - 69 KV.

THREE LINE DIAGRAM

13 KV. YARD

2	Lease-Purchase. See Revision Note 1.	
1	Field change RHH-48 12/8/69	
1	4/5/71	13KV METER, TEST BOX, DIST. BOX
REV. NO.	DATE	WORK ORDER
DESIGN	LMG	SUPV.
DRAWN	MFA	PROJ. ENGR.
CHECKED	JG 4	

DATE	6/6/69	SUBMITTED BY	APPROVED	SHEET 2 OF 2 SHEETS
CLASS. CODE				
SCALE	None	D303		WL-4587 R-2

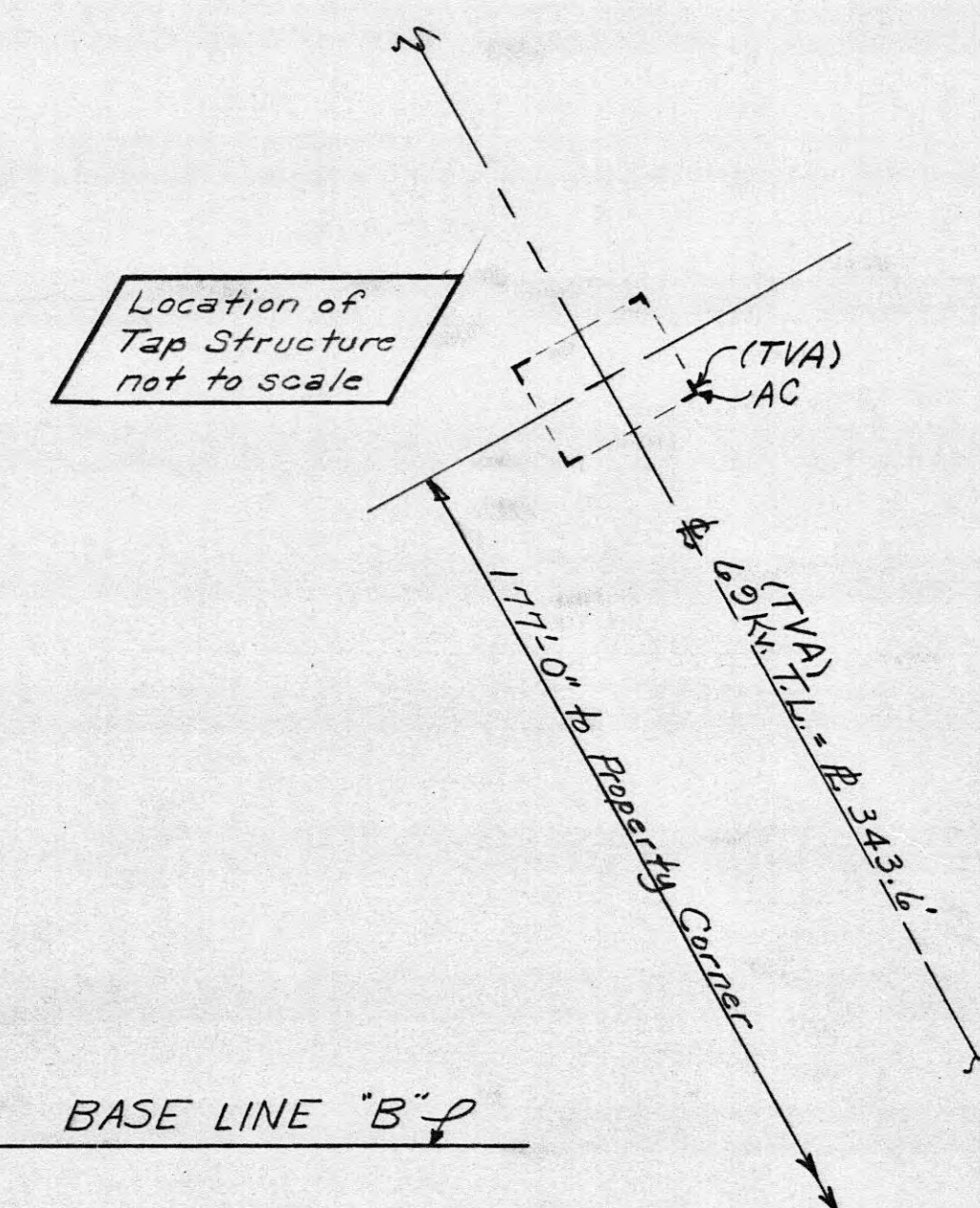
2896497

LIST OF FOUNDATIONS

MK.	QUAN.	DESCRIPTION	DWG. X File No.	Fdn. Dwg. No.	Elev.	CU. YDS. CONC.	CU. YDS. GRAV.	TOTAL
AA	2	69 kv. Bus & Switch Struct.	LC-23257	HC-2046 T3	843.5	0.97	1.94	
AB	4	69 kv. Bus & Switch Struct.	LC-23257	HC-2046 T1	843.5	0.97	3.88	
AC	1	69 kv. Tap Structure	LC-41305	Grillage	—	—	—	
AD	4	13 kv. L.V. Bus Support Tower	LC-38700	SC-38701	843.7	1.10	4.40	
AE	1	69 kv. Transformer Bus Tower	LC-41056	MC-41204	843.6	2.51	2.51	
AF	2	69-13 kv. 3 Phase Transformer	XA-1775	HC-44994-A	843.5	3.10	6.20	
AG	2	15 kv. Type D Regulator Extension	LC-22617	SC-3709	843.7	0.41	0.82	
AH	1	13.8 kv. 3 Phase Voltage Regulator	XA-1930	HC-38463-B	843.4	3.10	3.10	
AJ	10	15 kv. Type B & D Bus & Sm. Struct.	LC-25912 LC-17485	MC-19168	843.7	1.85	18.50	
AK	3	14.4 kv. Oil Circuit Breaker	XA-1803	SC-40568	843.6	0.69	2.07	
AL	1	Outdoor Meter Cabinet, Type A	LC-33843	SC-23266	843.6	0.32	0.32	
AM	1	Outdoor Battery Box	MC-585, Fig 3	SC-603	843.6	0.15	0.15	
AN								
AO	2	65' Overhead Groundwire Tower	LC-4956	MC-6165	See Plan	16.5	33.0	
AP	1	55' Overhead Groundwire Tower	LC-48704	MC-48705	842.9	18.4	18.4	

(TVA) (HUB)

* Top of Concrete



REFERENCES:
 General Arrangement Plan (Initial) LC-47897
 Grading Plan LC-49591
 Fence Plan HC-49683
 Yard Improvement Plan LC-49684

T.B.M. - R.R. spike in pole #2 1/2 located 14' West of S.W. Corner of substation site. Elevation 854.42 MSL datum.

TENNESSEE VALLEY AUTHORITY
 DIVISION OF POWER PLANNING AND ENGINEERING

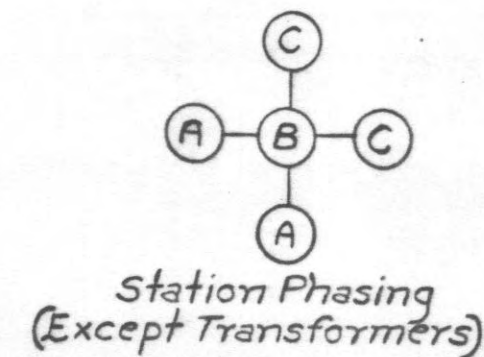
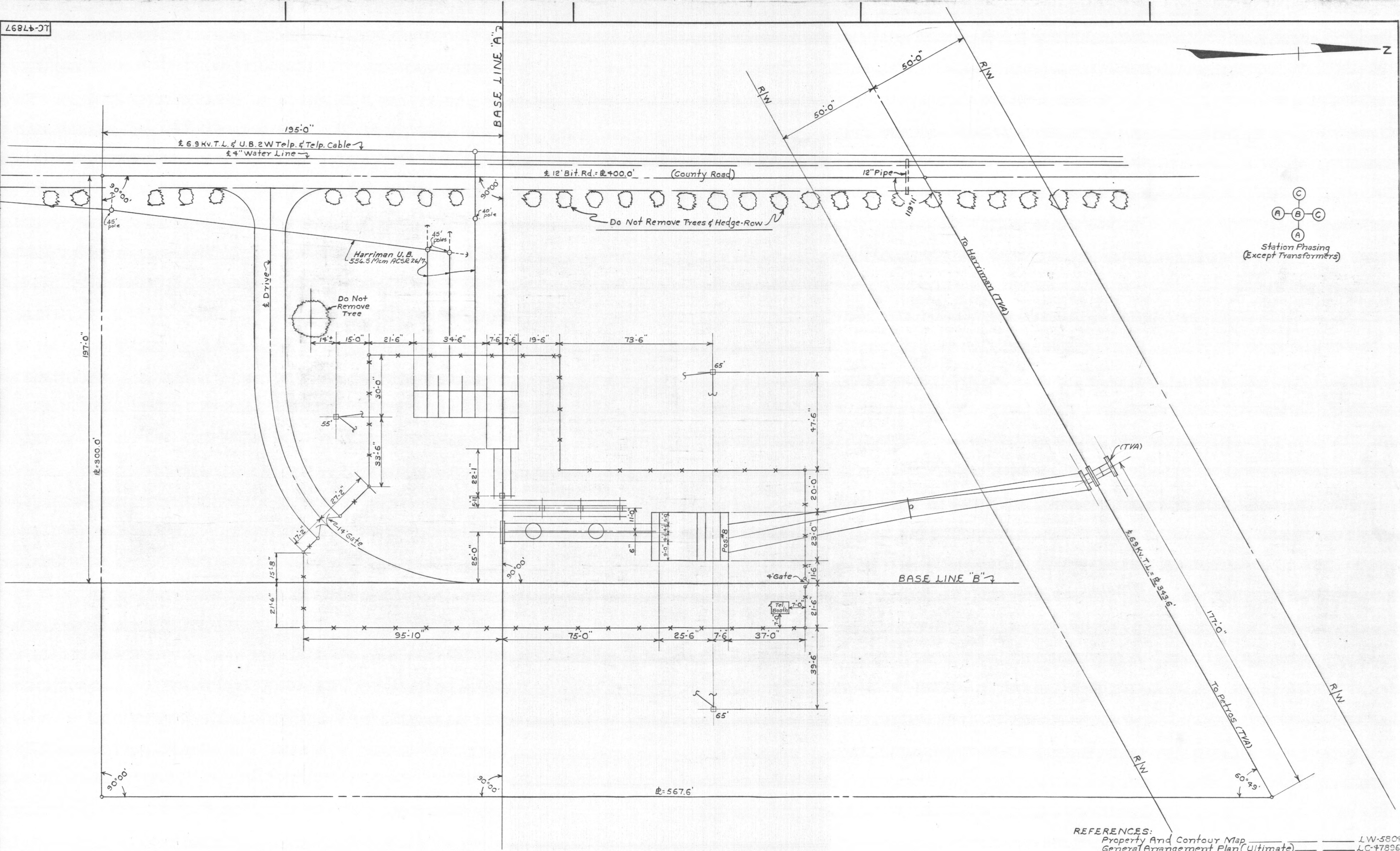
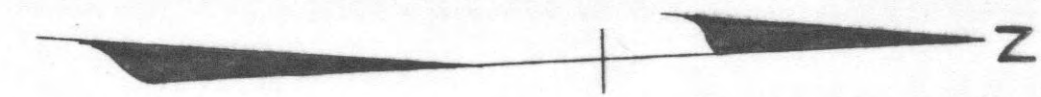
N.E. HARRIMAN, TENN. SUBSTATION-69KV.
 FOUNDATION PLAN

1. Lease purchase to Harriman U.B. except Mk. AC. 2/1/84 A7831.01 DOA DOA ENT				
REV.	DATE	WORK ORDER	DESN. DRWN. CHKD.	SUPV. APPD.
DESN.		SUPV.	LEM	W.O. 37174
DRWN.	R.W.K.	FE		
CHKD.	MMR			

DATE	SUBMITTED	APPROVED	SHEET	OF	SHEETS
5-27-69	Frank Smith	Robert Wilson	LC49682	R-1	
SCALE	CLASS. CODE				
1"=10'-0"	A305				

MICROFILMED 2

LC-47897



REFERENCES:
 Property And Contour Map _____ LW-5804
 General Arrangement Plan (Ultimate) _____ LC-47896

Lease-purchase to Harriman U.B. except 69KV T.L.'s to Harriman & to Petros and 69KV top str.					
3 2/10/68 47831.01 DOA DOA EMT					
Added feeder conductor size:					
2 5-26-69 37174 RWK/AMR/LZM RE					
Moved Station 30'-0" East					
1 10-17-68 37174 T.P. JRS RE					
REV.	DATE	WORK ORDER	DESN	DRWN	CHKD.
1	10-17-68	37174	T.P.	JRS	RE
2	5-26-69	37174	RWK/AMR/LZM	RE	
3	2/10/68	47831.01	DOA	DOA	EMT

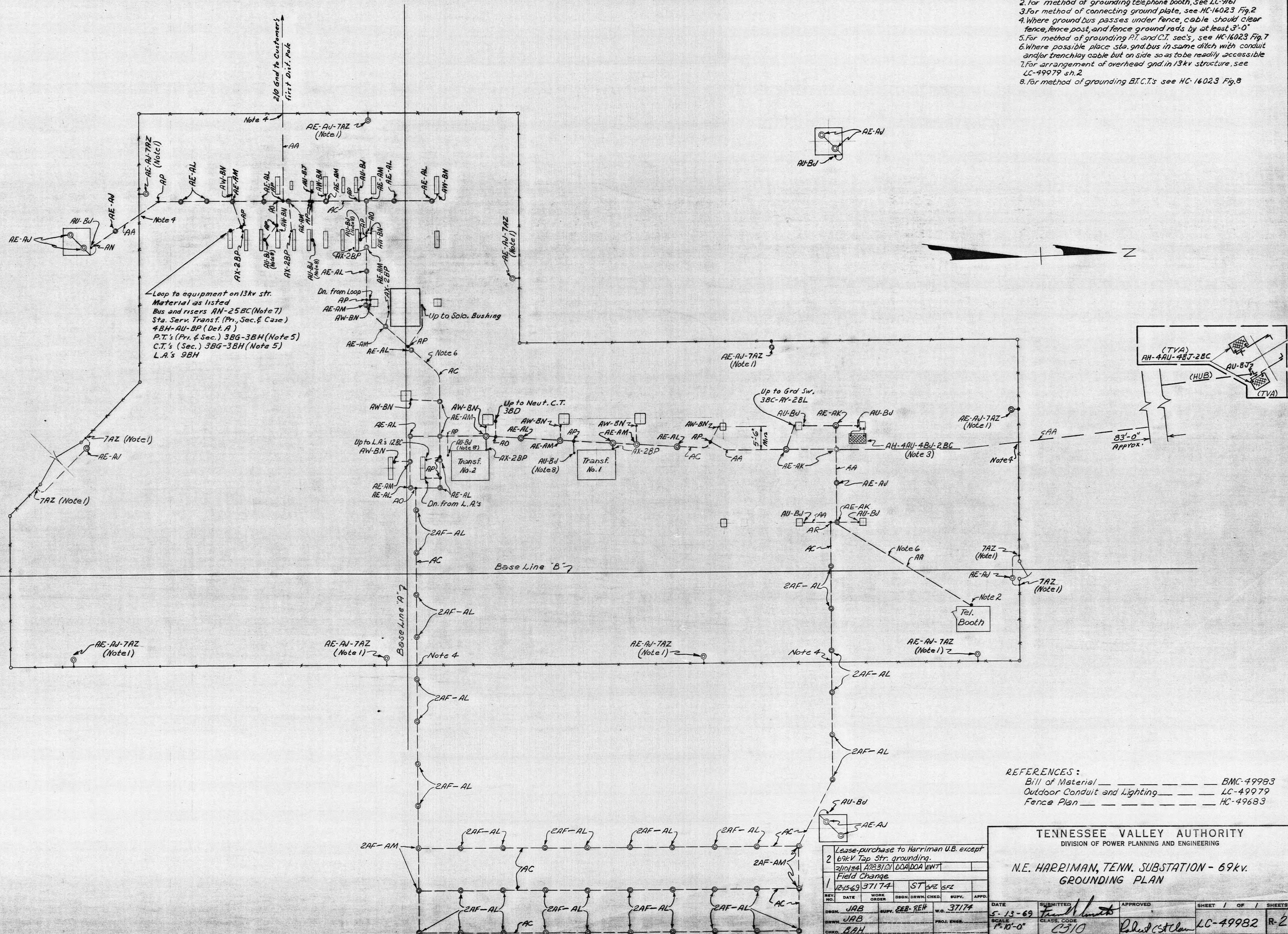
TENNESSEE VALLEY AUTHORITY	
DIVISION OF POWER PLANNING AND ENGINEERING	
N.E. HARRIMAN, TENN. SUBSTATION-69KV.	
GENERAL ARRANGEMENT PLAN	
INITIAL	
DATE 8-16-68	SUBMITTED 8/20/68
SCALE 1"=20'-0"	CLASS CODE 1301
APPROVED Fred Chapman	SHEET 1 OF 1 SHEETS
	LC-47897 R-3

MICROFILMED 2

DETAIL A
STA. SERV. TRANSF.
N.T.S.

GROUNDING NOTES :

1. For method of grounding fence, see HC-16023 Fig.5
2. For method of grounding telephone booth, see LC-961
3. For method of connecting ground plate, see HC-16023 Fig.2
4. Where ground bus passes under fence, cable should clear fence, fence post, and fence ground rods by at least 3'-0"
5. For method of grounding P.T. and C.T. see, see HC-16023 Fig.7
6. Where possible place sta. gnd. bus in same ditch with conduit and/or trenchlay cable but on side so as to be readily accessible
7. For arrangement of overhead gnd. in 13kv structure, see LC-49979 sh.2
8. For method of grounding B.T.C.T.s see HC-16023 Fig.8



REFERENCES:

Bill of Material	_____	BMC-49983
Outdoor Conduit and Lighting	_____	LC-49979
Fence Plan	_____	HC-49683

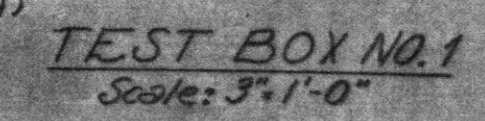
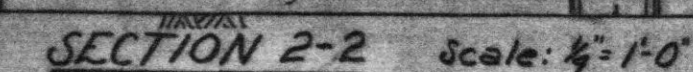
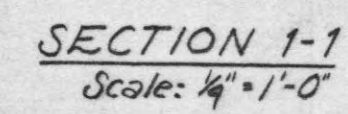
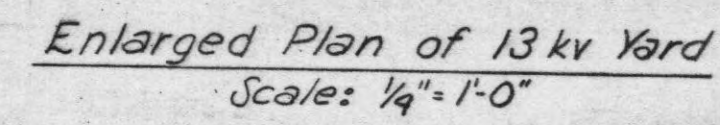
TENNESSEE VALLEY AUTHORITY
 DIVISION OF POWER PLANNING AND ENGINEERING

N.E. HARRIMAN, TENN. SUBSTATION - 69kv.
GROUNDING PLAN

2	Lease-purchase to Harriman U.B. except 69KV Tap Str. grounding.						
	2/10/84	A7B31.01	DOA DOA EWT				
1	Field Change						
	12-15-69	37174	ST	SFZ	SFZ		
REV. NO.	DATE	WORK ORDER	DSGN.	DRWN.	CHKD.	SUPV.	AP
		JAB	SUPV.	EEB-REH		37174	
DSGN.		JAB					
DRWN.		BAB					
CHKD.		BAB					
						PROJ. ENGR.	

DATE	SUBMITTED	APPROVED	SHEET / OF / SHEETS
5-13-69	<i>Frank M. Smith</i>		
SCALE 1"=10'-0"	CLASS, CODE C310	<i>Robert C. St. Clair</i>	LC-49982 R-2

AH-AP-AR-AS-AT-AW-AY-4CC-CE-CR-CW-2CX-
EO-EP-EQ, Asm Z, LC-32439, Sh. 2



TENNESSEE VALLEY AUTHORITY DIVISION OF POWER PLANNING AND ENGINEERING N.E. HARRIMAN, TENN. SUBSTATION - 69 kv. OUTDOOR CONDUIT AND LIGHTING PLAN AND DETAILS			
DATE 5-13-69	SUBMITTED <i>[Signature]</i>	APPROVED	SHEET 2 OF 3 SCALE Shown CLASS. CODE C501
		<i>[Signature]</i>	LC-49979 R-2

6296-TM

AUX. P.T.S.

2V1

2V2

2V3

V0

V1

V2

V3

V4

V5

V6

V7

V8

V9

V10

V11

V12

V13

V14

V15

V16

V17

V18

V19

V20

V21

V22

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V24

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V363

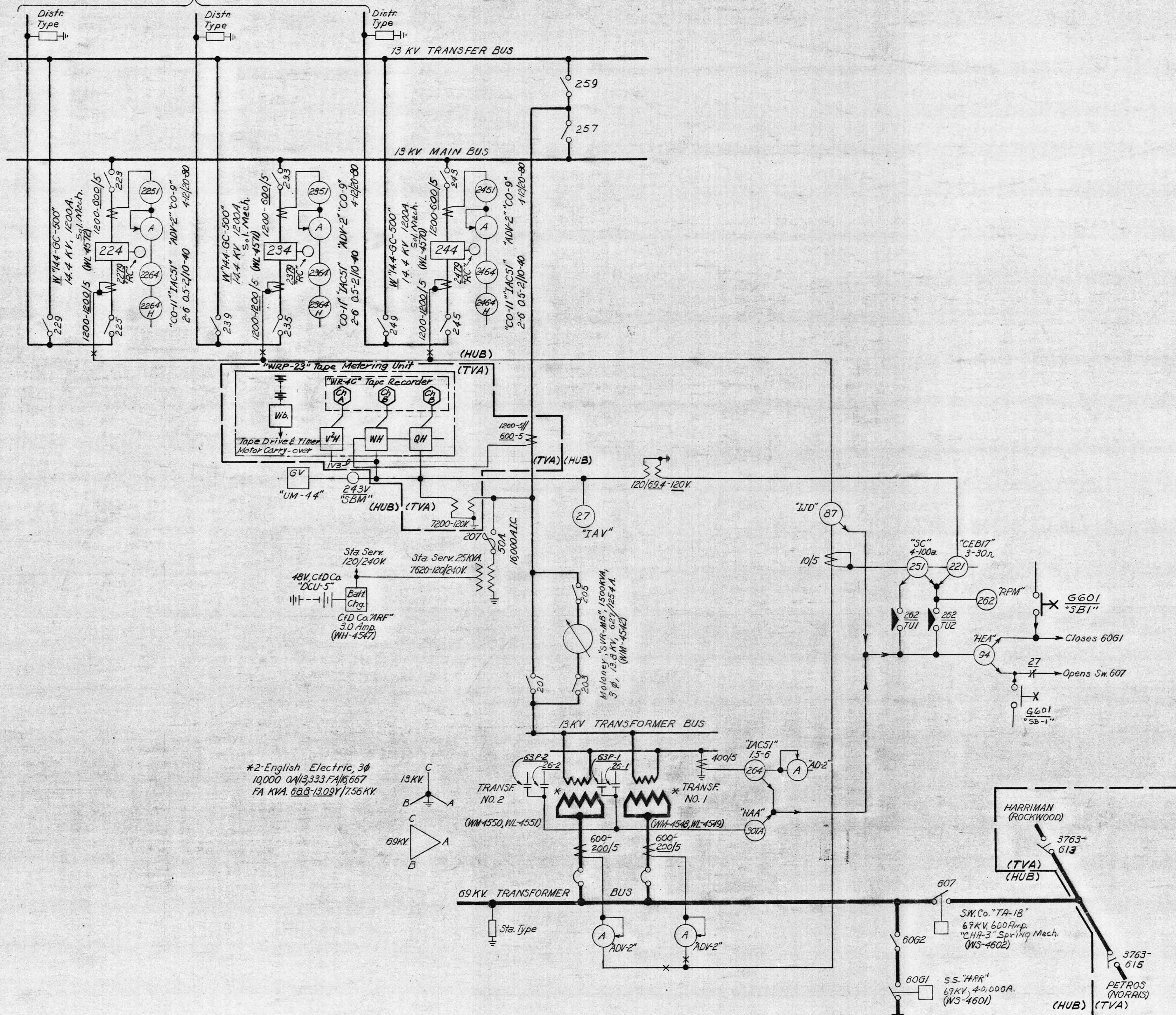
V364

V365

V366

5454-TM

HARRIMAN U.B.



REVISION NOTES:

1. Retired: Devices 27F-1, 27F-2, "PD-5Y", "DSW-20", "C-16"
2. Added: "WRP-23" Tape Metering Unit
3. Lease-purchase to Harriman U.B. except 69KV T.L.'s to Harriman and to Petros and 13KV metering C.T.'s, V.T.'s and meters. Reconnected V2H to IV3 potential.

REFERENCES:

Three Line Diagram
Elementary Diagram
Relay Meter Cab. Panel
Wiring, RK, FV, & E/M

5	Lease-Purchase. See Revision Note 2.				
4	Flu. Chg. RHH-85, 11/9/72				
3	See Revision Note 1				
2	Field Change RHH-48 12/8/69				
1	Corrected tap str. sub. numbers				
REV	DATE	WORK	DRGN	DRWN	SUPV.
NO		ORDER			
1	6/6/69				
2	10/30/73				
3	4/16/74				
4	4/15/74				
5	8/21/69				
6					
7					
8					
9					
10					
11					
12					

STATION NO. 3763

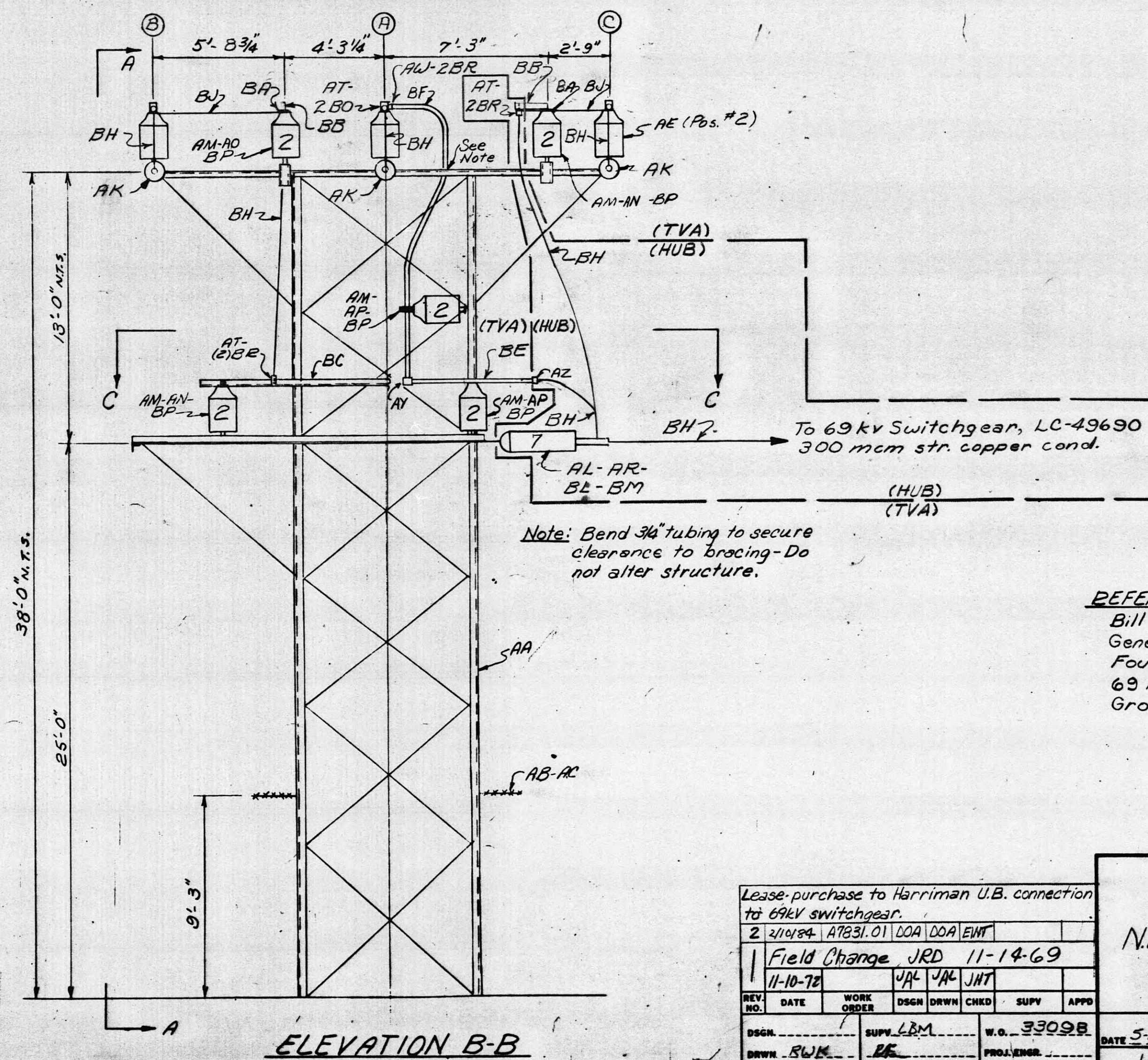
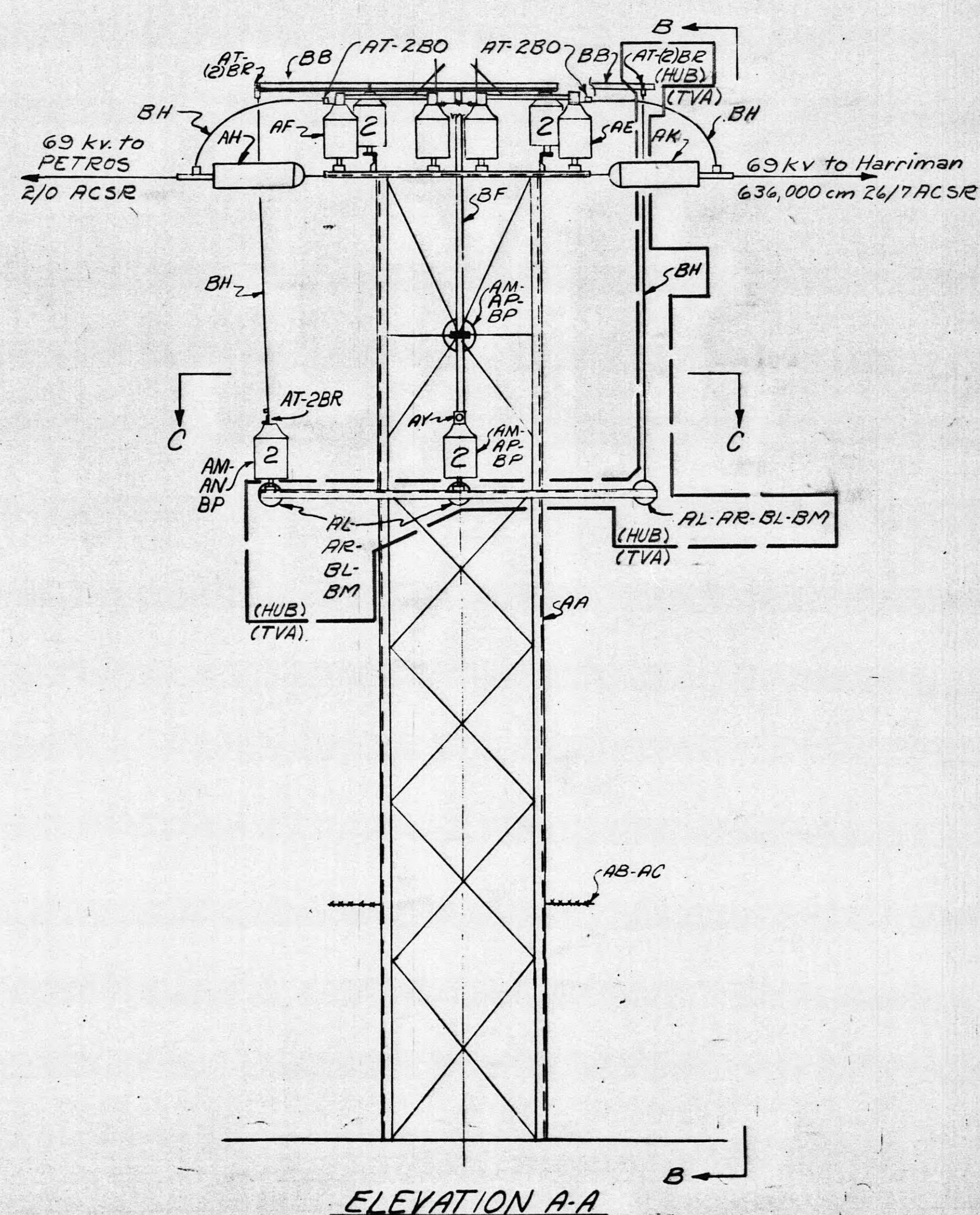
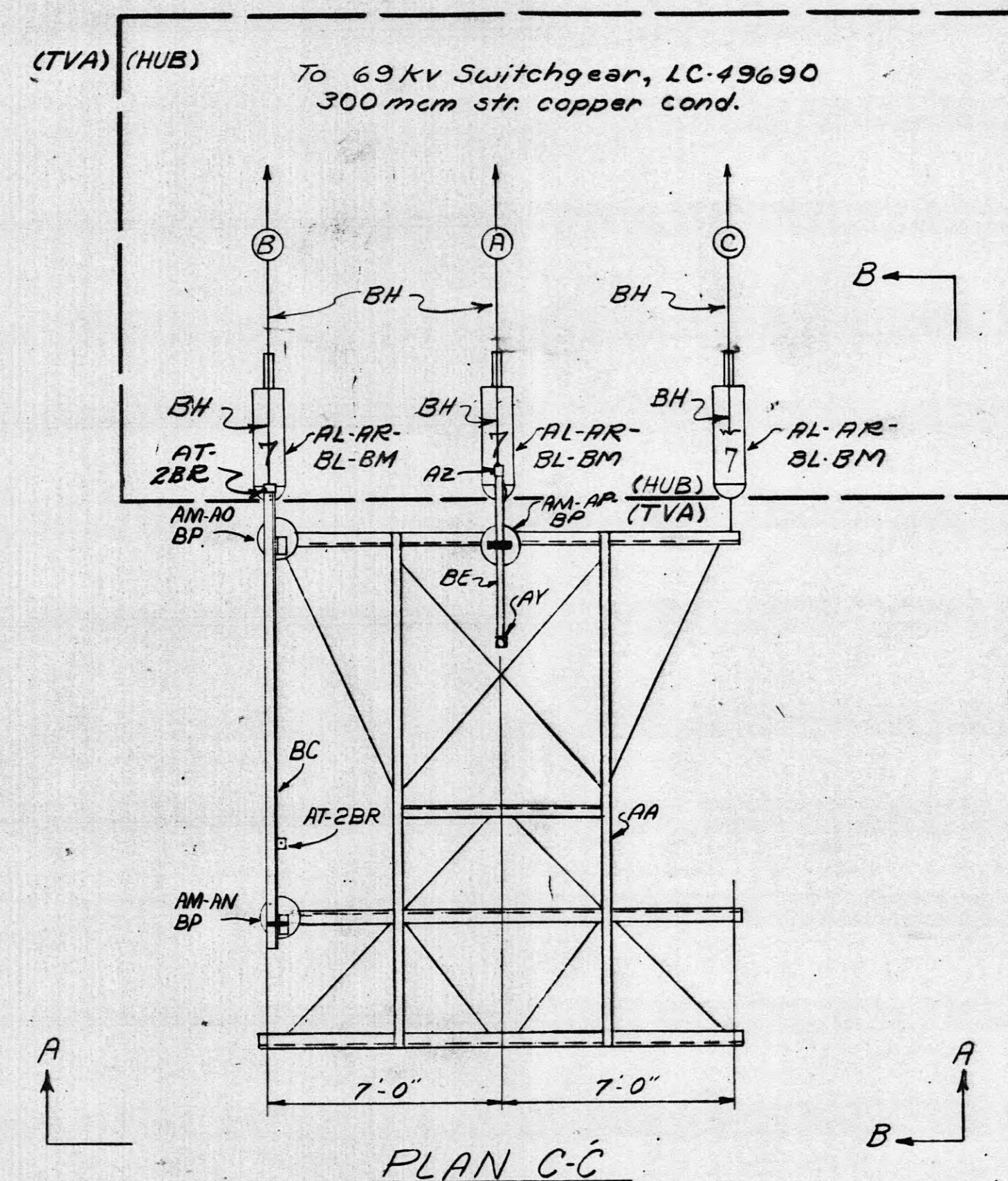
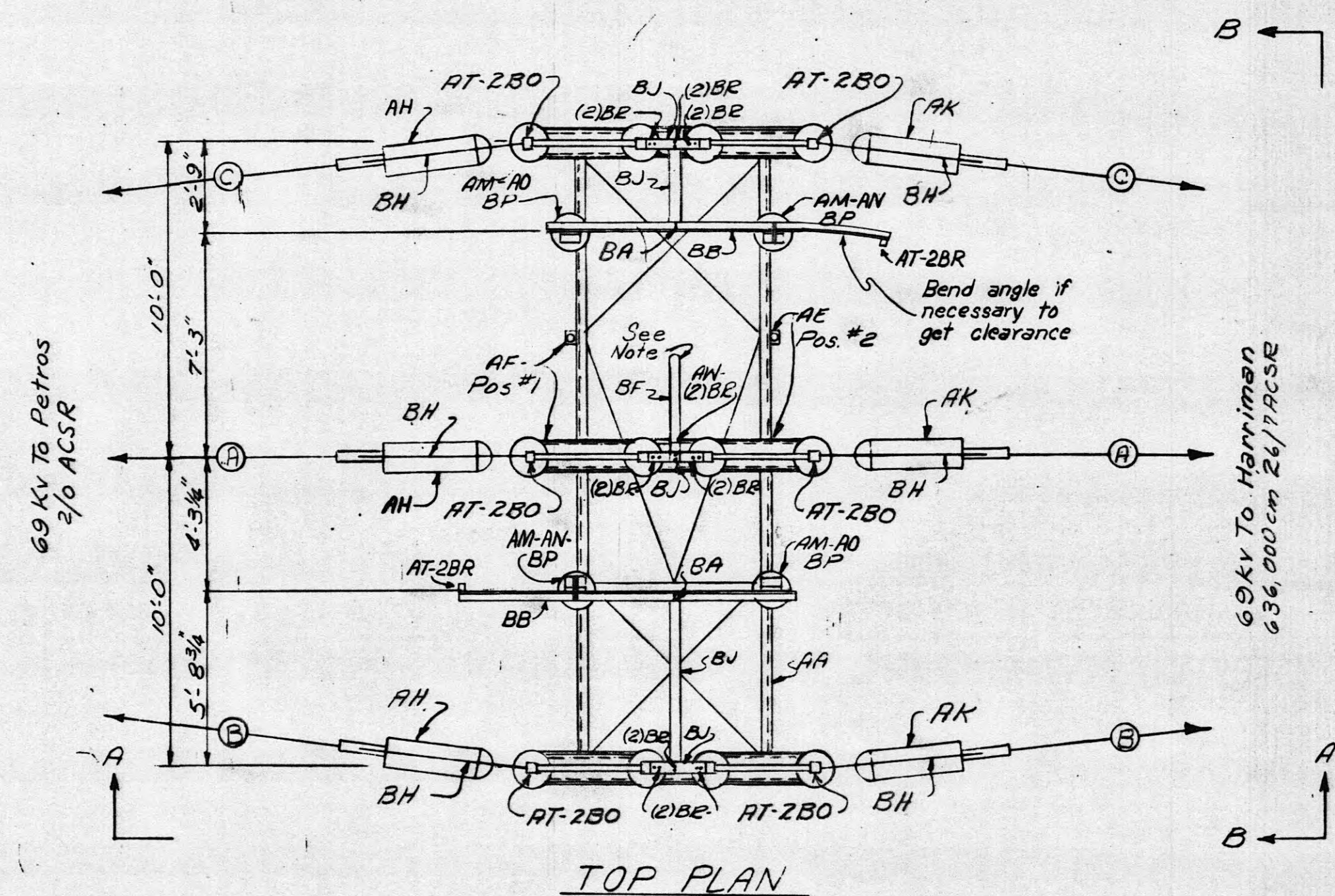
TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING

N.E. HARRIMAN, TENNESSEE SUBSTATION-69 KV.

SINGLE LINE DIAGRAM

DATE	SUBMITTED	APPROVED	SHEET	OF	SHEETS
6/6/69	6/6/69	6/6/69	1	1	1
SCALE	CLASS. CODE		WL-4545		R-5
None	2501				

MICROFILMED



REFERENCES:

Bill of Material	BMC-49687
General Arrangement Plan (Initial)	LC-47897
Foundation Plan	LC-49682
69 kv Switchgear	LC-49690
Grounding Plan	LC-49982

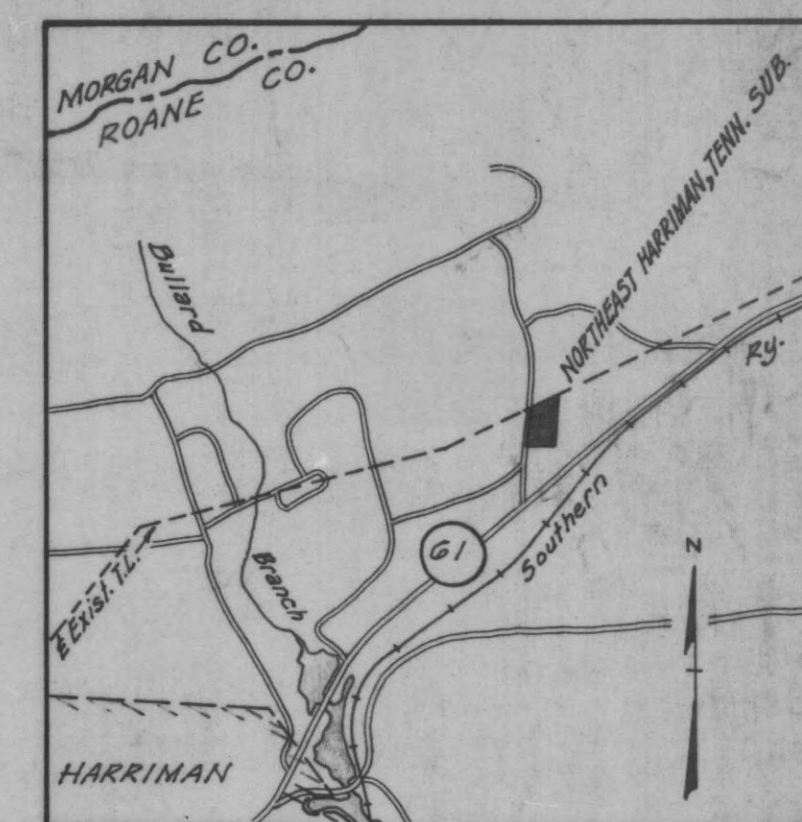
Lease purchase to Harriman U.B. connection to 69kv switchgear.					
2 2/14/69 47831.01 00A 00A EWT					
Field Change JRD 11-14-69					
REV	NO.	DATE	WORK ORDER	DESIGN	DRWN
1	1	11-10-78	JAL	JAL	JNT
DESIGN	DATE	WORK ORDER	DESIGN	DRWN	CHKD
DRWN	5/16/69	5/16/69	5/16/69	5/16/69	5/16/69
CHKD	MMR	MMR	MMR	MMR	MMR

TENNESSEE VALLEY AUTHORITY					
DIVISION OF POWER PLANNING AND ENGINEERING					
NE. HARRIMAN, TENN. SUBSTATION-69 KV.					
69 kv TAP STRUCTURE					
PLAN AND SECTIONS					
DATE	5-16-69	SUBMITTED	5-16-69	APPROVED	5-16-69
SCALE	1"=10'	ASSEMBLED	ASSEMBLED	ASSEMBLED	ASSEMBLED
LC49686-2					

LW-5804

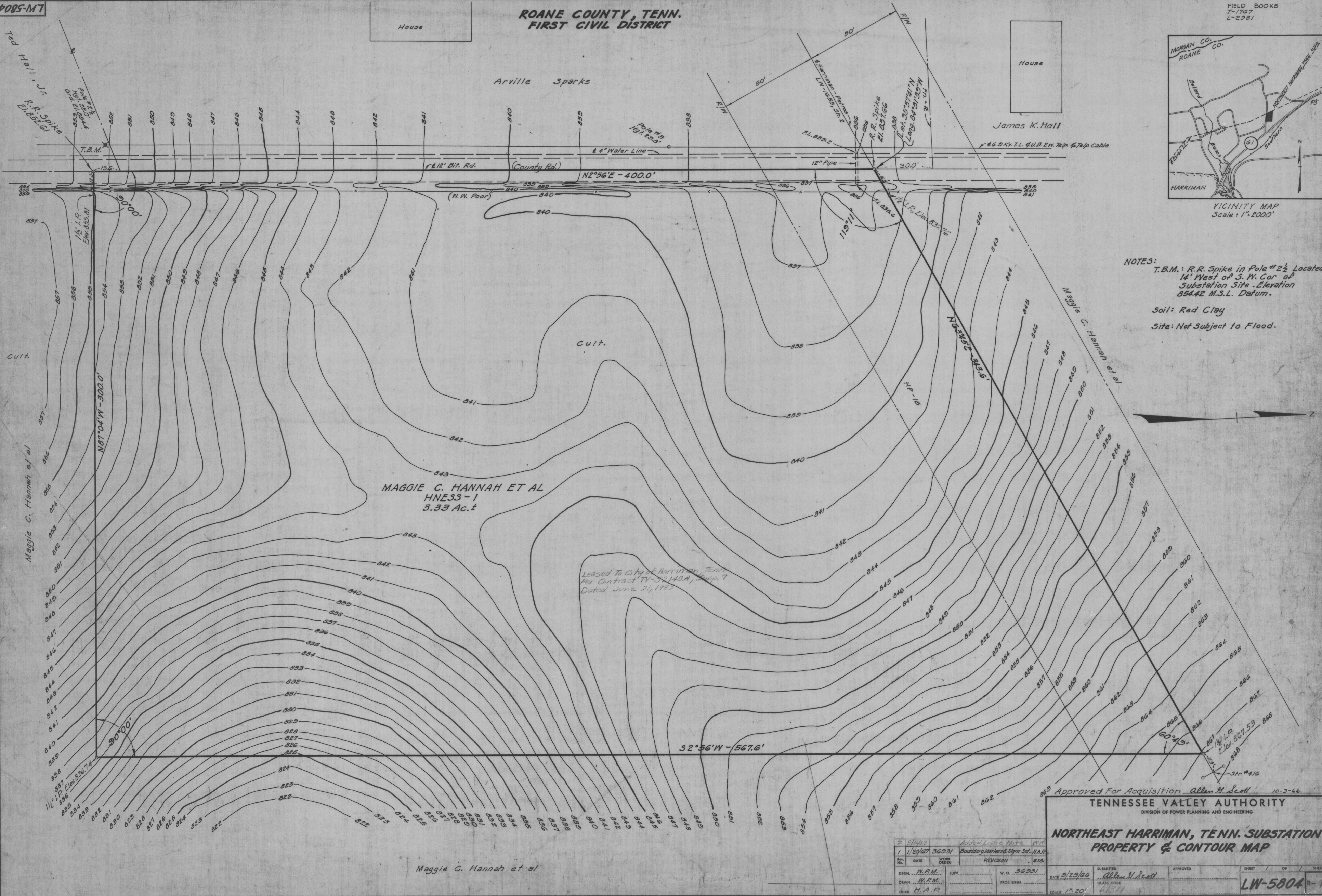
ROANE COUNTY, TENN.
FIRST CIVIL DISTRICT

FIELD BOOKS
T-1767
L-2981



VICINITY MAP
Scale: 1"=2000'

NOTES:
T.B.M.: R.R. Spike in Pole #2 1/2 Located
14' West of S.W. Cor. of
Substation Site. Elevation
854.42 M.S.L. Datum.
Soil: Red Clay
Site: Not Subject to Flood.



Approved For Acquisition Allen H. Scott 10-3-66

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING

NORTHEAST HARRIMAN, TENN. SUBSTATION
PROPERTY & CONTOUR MAP

2	3/19/63	Added Loose Note	YRL
1	1/24/67	36931 Boundary Markers & Signs Set	H.A.P.
REV.	DATE	WORK ORDER	REVISION
1			318
DSGN.	W.P.M.	SUPV.	W.O. 36931
DRWN.	W.P.M.	PROJ. ENGR.	
CHKD.	H.A.P.		
DATE	3/23/66	SUBMITTED	Allen H. Scott
CLASS. CODE		APPROVED	
SCALE	1"=20'		
SHEET		OF	SHEETS
LW-5804			R-1

MICROFILMED