DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	8-31-71	LBF ABW	DLM GES AFR

SHEET INDEX

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SHEET INDEX SUPPORTING INFORMATION		A1	1																			
FS 1 584D PANEL - INTERRUPTER CKT FS 2 LAMP STEADY AND LAMP GROUND SUPPLY CKT FS 3 TALK AND SIGNALING BATTERY FEED CKT		B1	1																			
FS 4 584D PANEL AUXILIARY RELAY CKT		B2	1																			
FS 5 PROGRAM RECEPTACLE FS 6 PROGRAM PLUG		B3	1																			
FS 7 LINE CKT CONNECTORS		B4	1																			
FS 8 FIELD CONNECTIONS CKT		B5	1																			
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CIRCUIT NOTES		D1	1																			
INFORMATION NOTES	301	D2	1																			
	302	D3	1																			
	303	D4	1																			
	304	D5	1																			
	305	D6	1																			

SUPPORTING INFORMATION

CATEGORY	NO.

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

/

SD-69635-01 1K03

STATION SYSTEMS
KEY TELEPHONE SYSTEM NO. 1A2
584D PANEL CONNECTIONS

AT&TCO
STANDARD

(1)

SD-69635-01-AI
13 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

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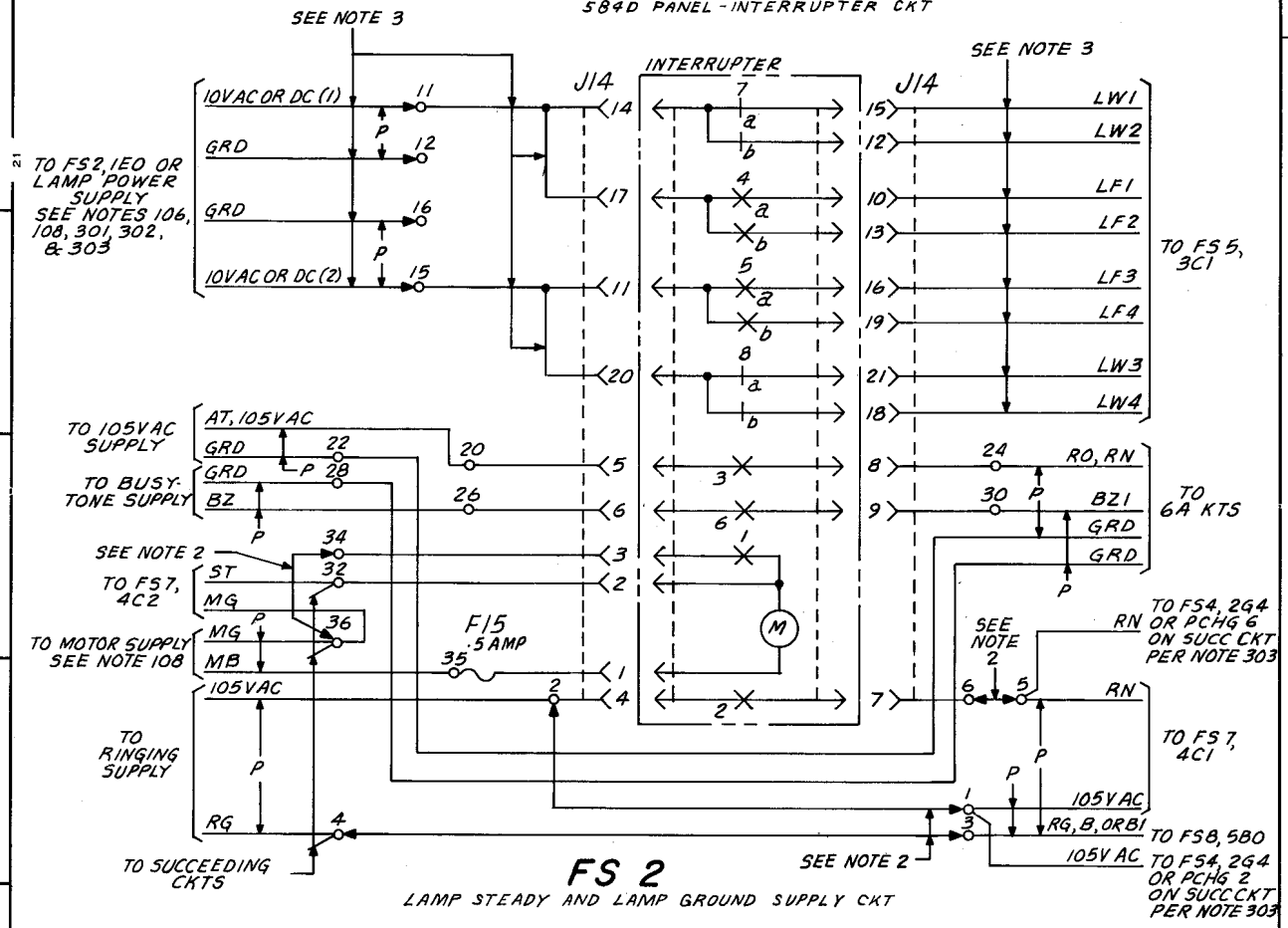
DRAWING ISSUE 1

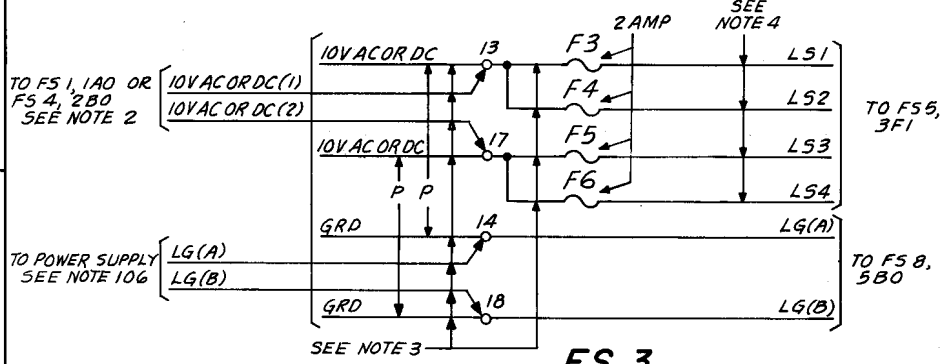
FS 1

584D PANEL - INTERRUPTER CKT



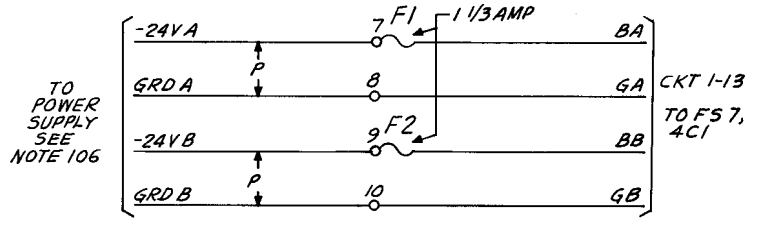
FS 2

LAMP STEADY AND LAMP GROUND SUPPLY CKT



FS 3

TALK AND SIGNALING BATTERY FEED CKT



NOTES:

1. WHEN RN LEAD (TERM. 5) IS LOADED TO CAPACITY ADDITIONAL RINGERS MAY BE ACCOMODATED OVER RN LEAD (TERM. 24) PROVIDED THE 6A KTS IS NOT USED.
2. ⟷ REMOVABLE FIELD STRAPS, FACTORY FURNISHED.
3. 18 GA OR EQUIVALENT (5 AMP CAPACITY)
4. 22GA OR EQUIVALENT (2 AMP CAPACITY)

PANEL CONNECTIONS

(1)

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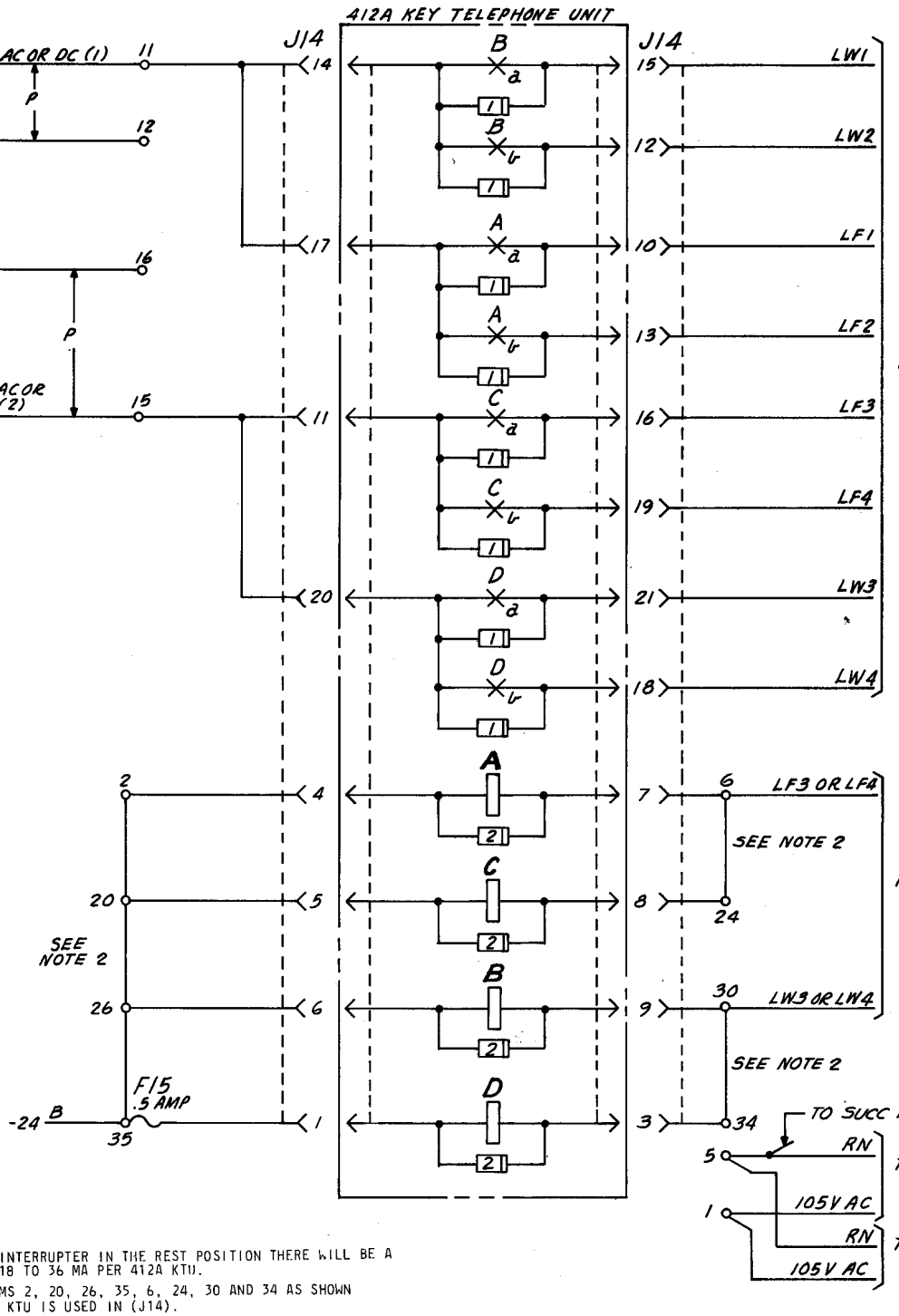
1

FS 4

584C PANEL
AUXILIARY RELAY CKT
SEE SHEET NOTES 1 AND 2



NOTES:

1. WITH THE INTERRUPTER IN THE REST POSITION THERE WILL BE A DRAIN OF 18 TO 36 MA PER 412A KTU.
2. STRAP TERMS 2, 20, 26, 35, 6, 24, 30 AND 34 AS SHOWN WHEN 412A KTU IS USED IN (J14).

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PANEL CONNECTIONS

(1)

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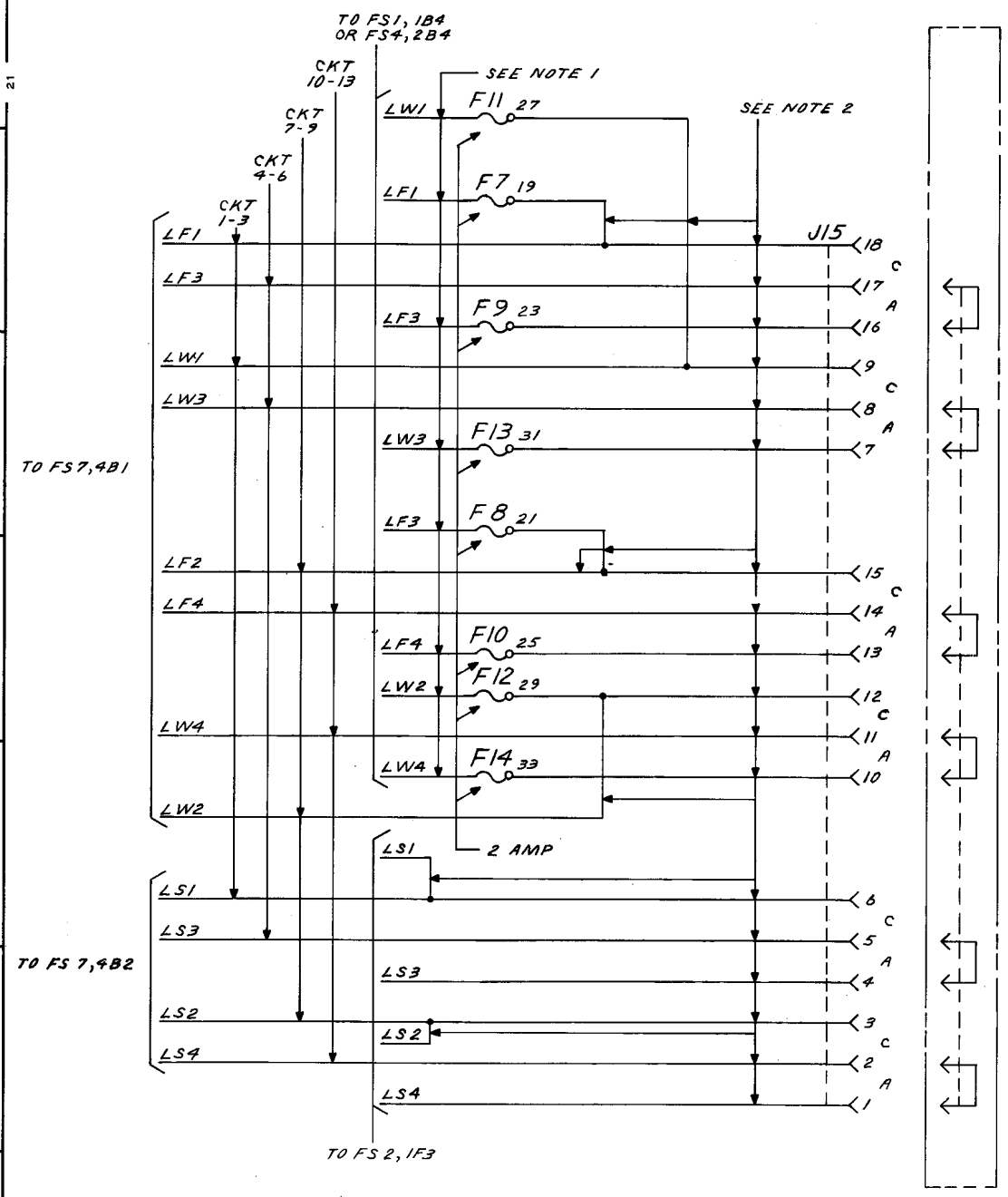

NOTES:
1. 18 GA OR EQUIVALENT (5 AMP CAPACITY)
2. 22 GA OR EQUIVALENT (2 AMP CAPACITY)

DRAWING ISSUE 1

PANEL CONNECTIONS

SD-69635-01-B3

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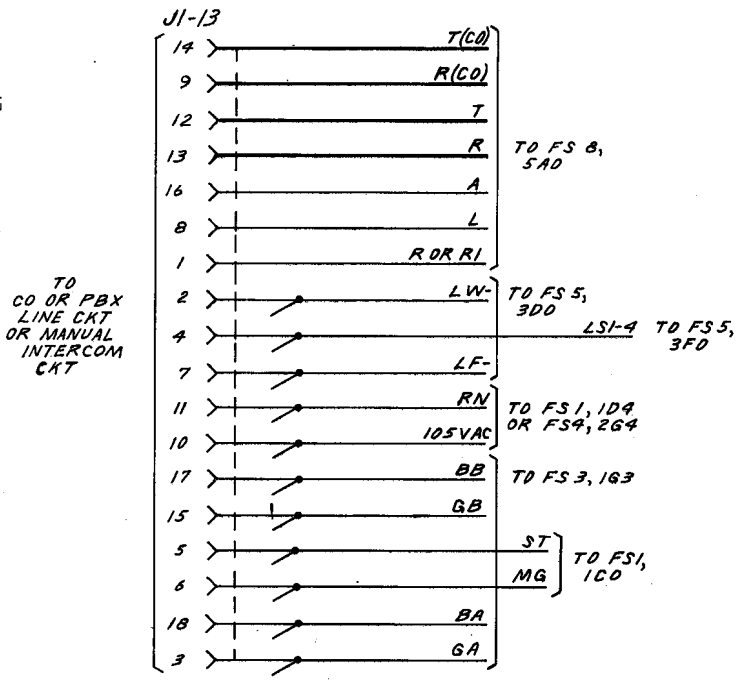
FS 7
LINE CKT CONNECTORS



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PANEL CONNECTIONS (1)

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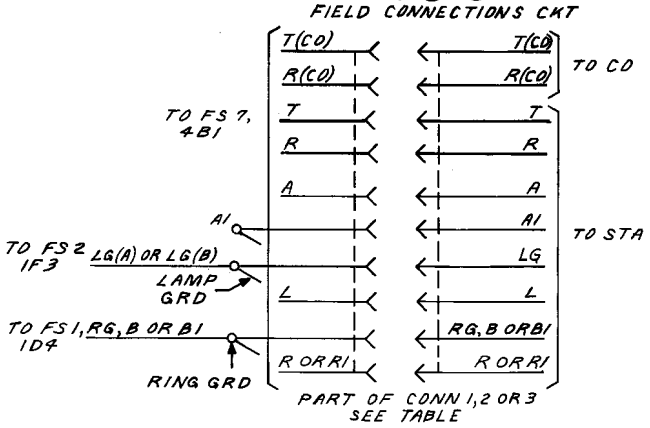
FS 8
FIELD CONNECTIONS CKT



MANUFACTURING INFORMATION ONLY

+ LG(A) MULTIPLE SUPPLIES GROUND RETURN FOR CIRCUITS 1-3, 7-9

LG(B) MULTIPLE SUPPLIES GROUND RETURN FOR CIRCUITS 4-6, 10-13

CONNECTOR 1				
BLUE-WHITE BINDER				
LEAD DESIG	TERM.	CONN TO LINE CKTJK	CONN TO MULT	COLOR
T (CO)	26	1		W-BL
R (CO)	1			BL-W
T	27			W-O
R	2			O-W
A	28			W-G
L	4			BR-W
R OR R1	5			S-W
A1	3		GB	G-W
LG1	29		+LG(A)	W-BR
B OR B1	30		RG	W-S
T (CO)	31	2		R-BL
R (CO)	6			BL-R
T	32			R-O
R	7			O-R
A	33			R-G
L	9			BR-R
R OR R1	10			S-R
A1	8		GB	G-R
LG2	34		+LG(A)	R-BR
B OR B1	35		RG	R-S
T (CO)	36	3		BK-BL
R (CO)	11			BL-BK
T	37			BK-O
R	12			O-BK
A	38			BK-G
L	14			BR-BK
R OR R1	15			S-BK
A1	13		GB	G-BK
LG3	39		+LG(A)	BK-BR
B OR B1	40		RG	BK-S
T (CO)	41	4		Y-BL
R (CO)	16			BL-Y
T	42			Y-O
R	17			O-Y
A	43			Y-G
L	19			BR-Y
R OR R1	20			S-Y
A1	18		GB	G-Y
LG4	44		+LG(B)	Y-BR
B OR B1	45		RG	Y-S
T (CO)	46	5		V-BL
R (CO)	21			BL-V
T	47			V-O
R	22			O-V
A	48			V-G
L	24			BR-V
R OR R1	25			S-V
A1	23		GB	G-V
LG5	49		+LG(B)	V-BR
B OR B1	50		RG	V-S

CONNECTOR 2				
ORANGE-WHITE BINDER				
LEAD DESIG	TERM.	CONN TO LINE CKTJK	CONN TO MULT	COLOR
T (CO)	26	6		W-BL
R (CO)	1			BL-W
T	27			W-O
R	2			O-W
A	28			W-G
L	4			BR-W
R OR R1	5			S-W
A1	3		GB	G-W
LG6	29		+LG(B)	W-BR
B OR B1	30		RG	W-S
T (CO)	31	7		R-BL
R (CO)	6			BL-R
T	32			R-O
R	7			O-R
A	33			R-G
L	9			BR-R
R OR R1	10			S-R
A1	8		GB	G-R
LG7	34		+LG(A)	R-BR
B OR B1	35		RG	R-S
T (CO)	36	8		BK-BL
R (CO)	11			BL-BK
T	37			BK-O
R	12			O-BK
A	38			BK-G
L	14			BR-BK
R OR R1	15			S-BK
A1	13		GB	G-BK
LG-8	39		+LG(A)	BK-BR
B OR B1	40		RG	BK-S
T (CO)	41	9		Y-BL
R (CO)	16			BL-Y
T	42			Y-O
R	17			O-Y
A	43			Y-G
L	19			BR-Y
R OR R1	20			S-Y
A1	18		GB	G-Y
LG9	44		+LG(A)	Y-BR
B OR B1	45		RG	Y-S
T (CO)	46	10		V-BL
R (CO)	21			BL-V
T	47			V-O
R	22			O-V
A	48			V-G
L	24			BR-V
R OR R1	25			S-V
A1	23		GB	G-V
LG10	49		+LG(B)	V-BR
B OR B1	50		RG	V-S

CONNECTOR 3				
GREEN-WHITE BINDER				
LEAD DESIG	TERM.	CONN TO LINE CKTJK	CONN TO MULT	COLOR
T (CO)	26	11		W-BL
R (CO)	1			BL-W
T	27			W-O
R	2			O-W
A	28			W-G
L	4			BR-W
R OR R1	5			S-W
A1	3		GB	G-W
LG11	29		+LG(B)	W-BR
B OR B1	30		R-G	W-S
T (CO)	31	12		R-BL
R (CO)	6			BL-R
T	32			R-O
R	7			O-R
A	33			R-G
L	9			BR-R
R OR R1	10			S-R
A1	8		GB	G-R
LG12	34		+LG(B)	R-BR
B OR B1	35		RG	R-S
T (CO)	36	13		BK-BL
R (CO)	11			BL-BK
T	37			BK-O
R	12			O-BK
A	38			BK-G
L	14			BR-BK
R OR R1	15			S-BK
A1	13		GB	G-BK
LG13	39		+LG(B)	BK-BR
B OR B1	40		RG	BK-S

DRAWING ISSUE 1

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PANEL CONNECTIONS (1)

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APP FIG. 1

CONNECTOR

DESIG	LOC	CODE
1	5B1	KS-16671,L1
2	5B1	KS-16671,L1 PLUG
3	5B1	KS-16671,L1
J1-J13	4A0	906
J14	1A2,1A3 2A1,2A2	KS-8586,L32 SOCKET
J15	3A3	906K

FUSES

DESIG	LOC	CODE
F1	1G1	24G
F2	1G1	24G
F3	1E1	24C
F4	1E1	24C
F5	1E1	24C
F6	1F1	24C
F7	3B1	24C
F8	3C1	24C
F9	3B1	24C
F10	3D1	24C
F11	3A1	24C
F12	3D1	24C
F13	3C1	24C
F14	3E1	24C
F15	1C1,2F1	24E

APP FIG. 2

INTERRUPTER

DESIG	LOC	CODE
	1A2	KS-15900,L1 KS-19384,L2

APP FIG. 3

KEY TEL UNIT

DESIG	LOC	CODE
	2A2	412A

PANEL CONNECTIONS

(1)

SD-69635-01-CI

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
F1,2	1-1/3	24V DC	PANEL
F3,4, 5,6, 7,8, 9,10, 11,12, 13,14	2	10V AC OR DC	
F15	.5	10V AC OR 24V DC	

BATTERY SYMBOL	VOLTAGE RANGE
±10V	8.75 - 11V **OR** 9.75 - 12V
-24A	18 - 26V
-24B	20 - 26V

102.

FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
584D PANEL		1		1 PER PANEL *
INTERRUPTER	KS-15900,L1	2		ONE PER PANEL WHEN REQD *
	KS-19384,L2			
412A KTU				

* SEE NOTES 301-303 FOR SPECIFIC APPLICATION

103. RECORD OF APP FIGURES, WIRING, AND APPARATUS CHANGES

CHANGED	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	

CIRCUIT NOTES: (CONT)

104.

NETWORK VALUES			
NETWORK NO.	NETWORK CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	186D	270	.5
2	185A	470	.13

105. THE GROUND SUPPLIED TO LEAD ST FROM A CONNECTING CIRCUIT MUST BE THE GROUND ASSOCIATED WITH THE 10V ± SUPPLY USED TO DRIVE THE MOTOR OF THE SIGNAL INTERRUPTER.

106. WHERE MORE THAN ONE SUPPLY IS USED TO PROVIDE 10V AC AND 24V DC POWER, THE GROUND TERMINALS OF THESE SUPPLIES ARE TO BE BONDED TOGETHER.

107. TOTAL LOOP RESISTANCE OF LEAD A TO GRD B THROUGH LEAD A1 SHALL NOT EXCEED 50 OHMS.

108. FURNISH 10V AC FOR KS-15900,L1 INTERRUPTER MOTOR SUPPLY; 24V DC FOR KS-19384,L2 INTERRUPTER MOTOR SUPPLY. LAMP SUPPLY IS NORMALLY 10V AC BUT MAY BE DC WHEN REQUIRED WITH THE KS-19384,L2 INTERRUPTER.

109. WHEN INTERRUPTER IS USED FOR ONE PANEL ONLY, PLACE PROGRAM PLUG IN POSITION A; FOR TWO PANELS, PLACE PLUG IN POSITION C.

DRAWING ISSUE 1

1

PANEL CONNECTIONS

(1)

SD-69635-01-D1

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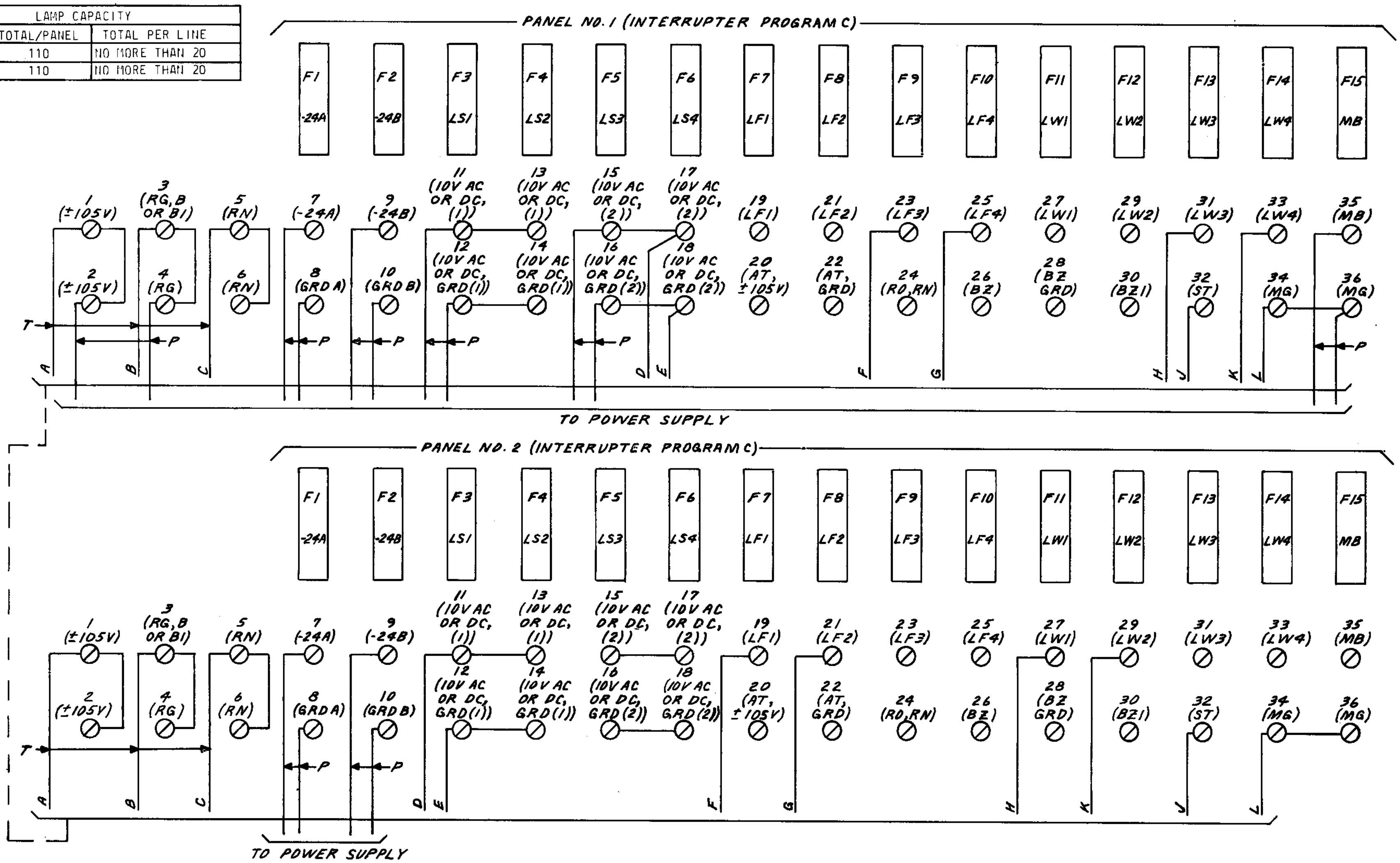
INFORMATION NOTES:

301. INSTALLER WIRING FOR CONNECTING 2 584D PANELS WHERE THE SECOND PANEL IS NOT EQUIPPED WITH AN INTERRUPTER OR A 412A KTU.

PANEL NO.	LAMP CAPACITY	
	TOTAL/PANEL	TOTAL PER LINE
1	110	NO MORE THAN 20
2	110	NO MORE THAN 20



PANEL CONNECTIONS

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DWG SIZE 3S

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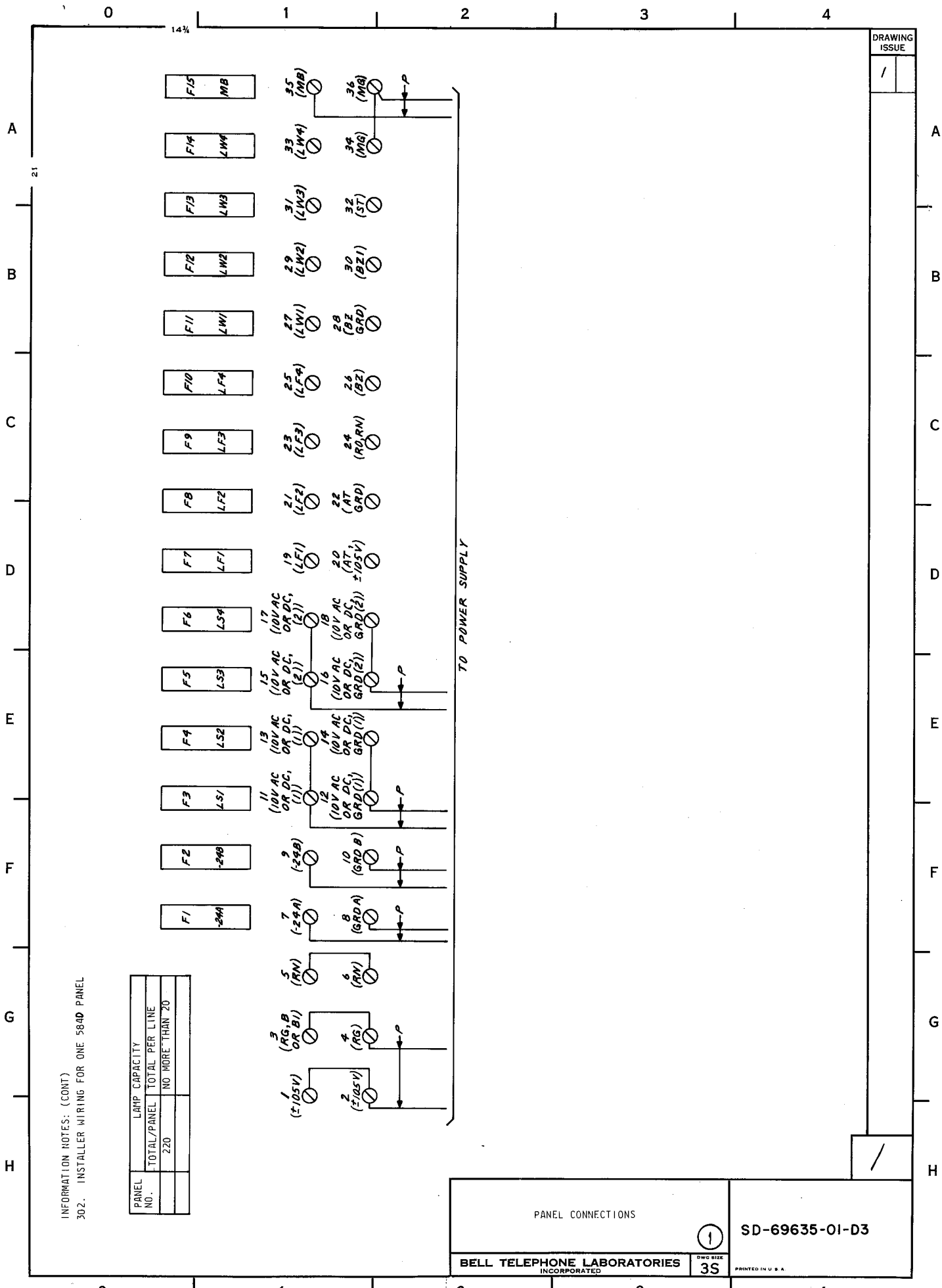

INFORMATION NOTES: (CONT)

302. INSTALLER WIRING FOR ONE 584D PANEL

PANEL NO.	LAMP CAPACITY	
	TOTAL/PANEL	TOTAL PER LINE
	220	NO MORE THAN 20

DRAWING ISSUE

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/

PANEL CONNECTIONS

(1)

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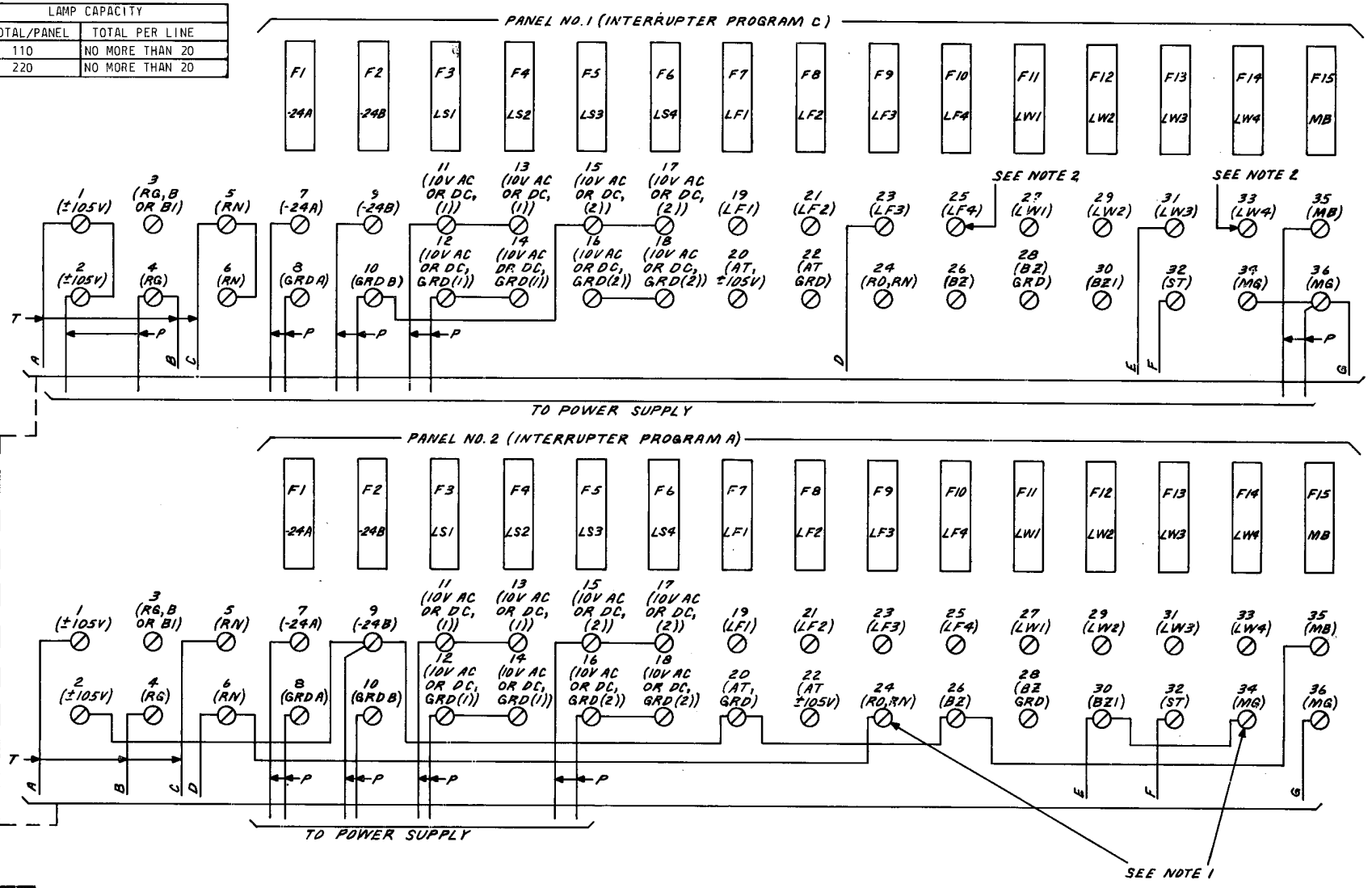
INFORMATION NOTES: (CONT)

303. INSTALLER WIRING FOR CONNECTING 2 OR MORE 584D PANELS WHEN USING A 412A KTU IN J14.

NOTES:

1. STRAP TO SUCCEEDING PANELS (MAXIMUM 99 PANELS).
2. MAY BE USED IN THE SAME WAY AS TERMINALS LF3 AND LW3 (MAXIMUM 100 PANELS).

PANEL NO.	LAMP CAPACITY	
	TOTAL/PANEL	TOTAL PER LINE
1	110	NO MORE THAN 20
2	220	NO MORE THAN 20



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PANEL CONNECTIONS

DWG. SIZE 3S

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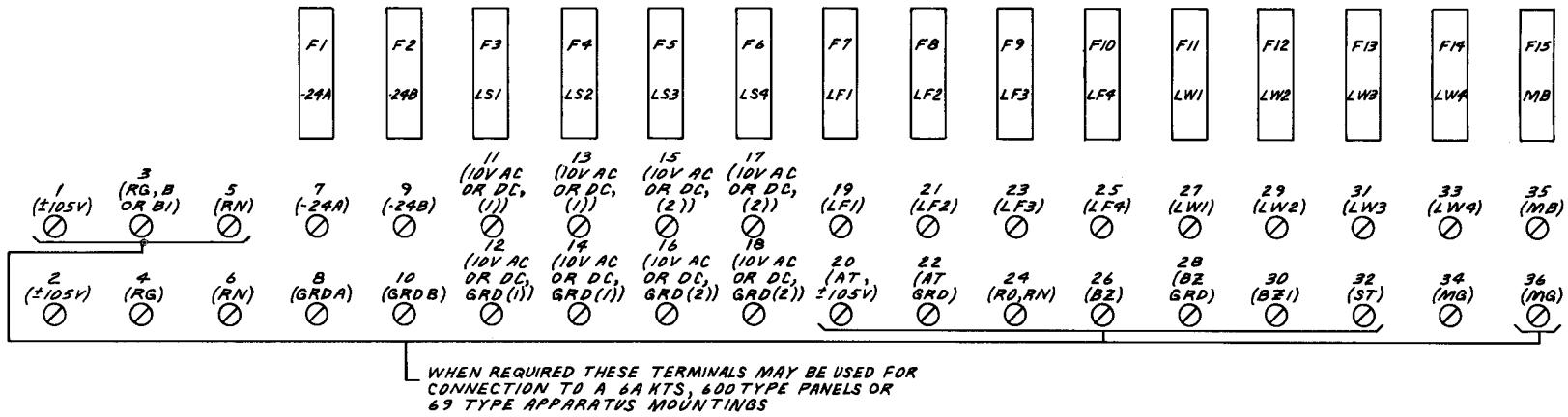
INFORMATION NOTES: (CONT)

304. INSTALLER WIRING FOR CONNECTING A 584D PANEL TO A 6A KTS,600 TYPE PANELS OR 69 TYPE APPARATUS MOUNTINGS.



WHEN REQUIRED THESE TERMINALS MAY BE USED FOR CONNECTION TO A 6A KTS, 600 TYPE PANELS OR 69 TYPE APPARATUS MOUNTINGS

PANEL CONNECTIONS

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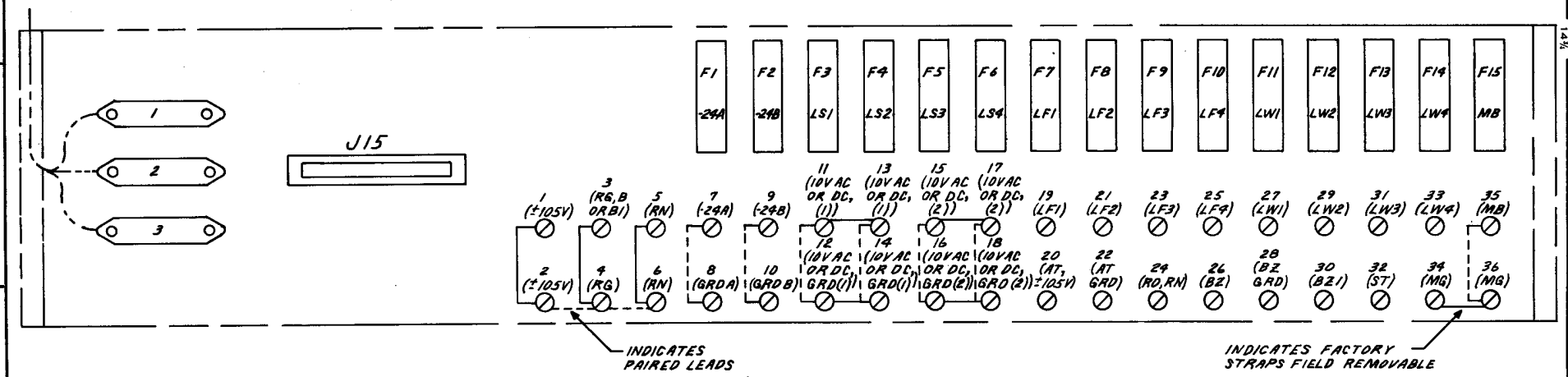
INFORMATION NOTES: (CONT)

305. REAR OF 584D PANEL.



PANEL CONNECTIONS

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