

SHEET INDEX

[illegible]

* SECTION D SHEETS WITH SUFFIX A WERE FORMERLY WITHOUT A SUFFIX LETTER.

SUPPORTING INFORMATION

CATEGORY	NO.
KEY TELEPHONE SYSTEM NO.1A2 KEY SHEET	SD-69592-C
CONTROLLING SD'S FOR THE FOLLOWING KTUS (SEE NOTE 301).	
400B, C, D, G, H KTU	SD-69513-C
401A, B KTU	SD-69475-C
407B, C, 420A, 422B, 424A, B, C 425A, 476A, AND 494A KTU'S	SD-69567-C
413A, 421A, 448A AND 449A KTU'S	SD-69590-C
414A, 415A, 416A, 418A, 419A, 461A AND 469A KTU'S	SD-69559-C
417A KTU	SD-69561-C
426A, 427B AND 427C KTU'S	SD-69595-C
428A KTU	SD-69489-C
429B AND 430A KTU'S	SD-69530-C
440A KTU	SD-69906-C
444A, B, 454A, B KTU	SD-69653-C
460A, B	SD-69652-C
467A	SD-69917-C
471A AND 479A KTU'S	SD-69921-C
478B KTU	SD-69931-C
498A KTU	SD-69922-C

* OR LATER

1A2 KTS PANELS
62Φ-64Φ SERIES

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.

**NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE
THE BELL SYSTEM EXCEPT UNDER
WRITTEN AGREEMENT**

ISSUE
5B

STATION SYSTEMS 1K03

KEY TELEPHONE SYSTEM NO. 1A2

PANELS 620A2, 626A, 641A, 642A
(MODULAR PANELS)

MOUNTING ARRANGEMENTS FOR LINE (620A),
MULTIPATH INTERCOM (626A),
INTERCOM (641A), AND MISCELLANEOUS (642A)

KEY TELEPHONE UNITS

AT&TCO
STANDARD
MFR DISC. FOR 620A

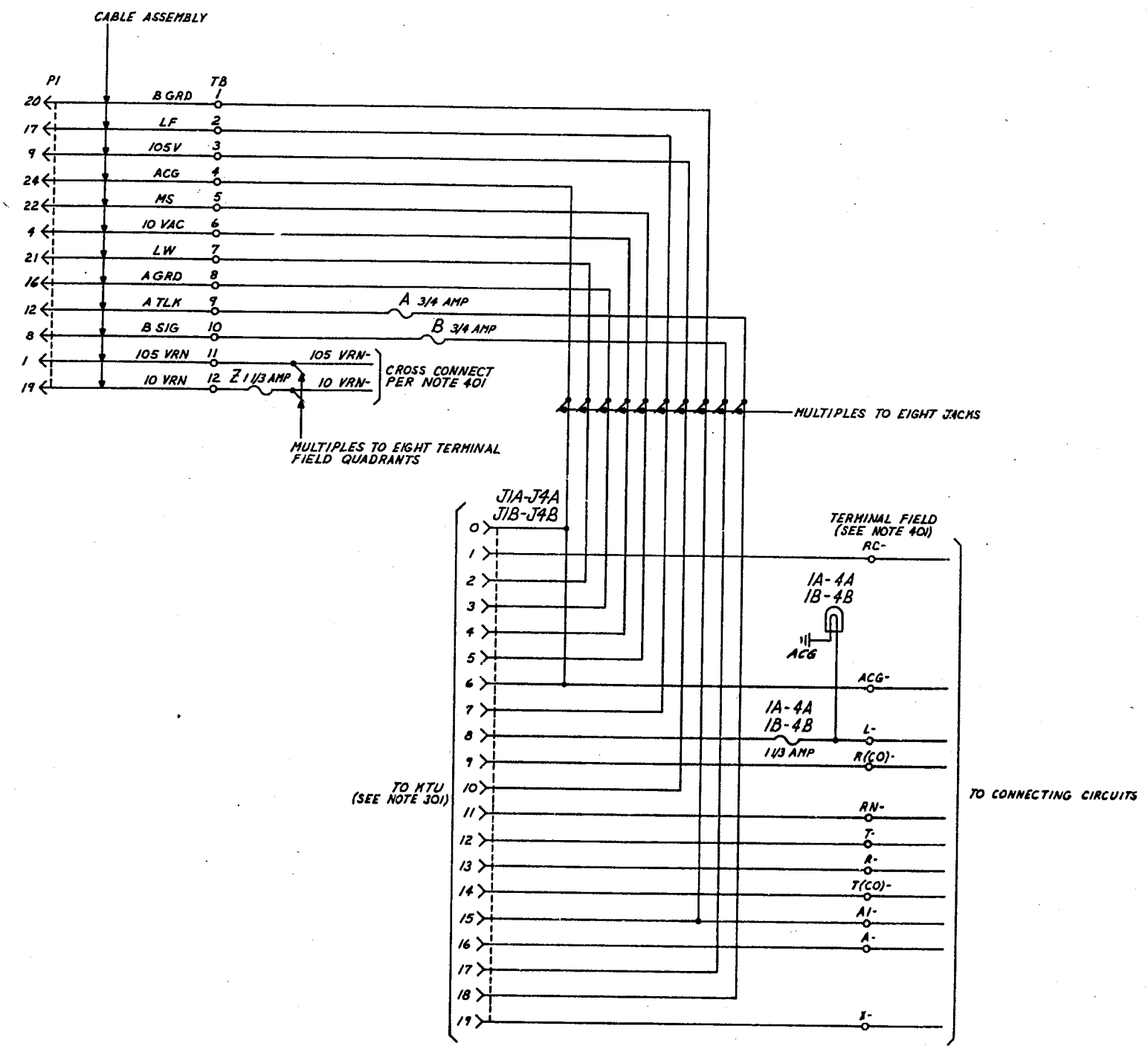
SD-69658-OI-AI
17 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

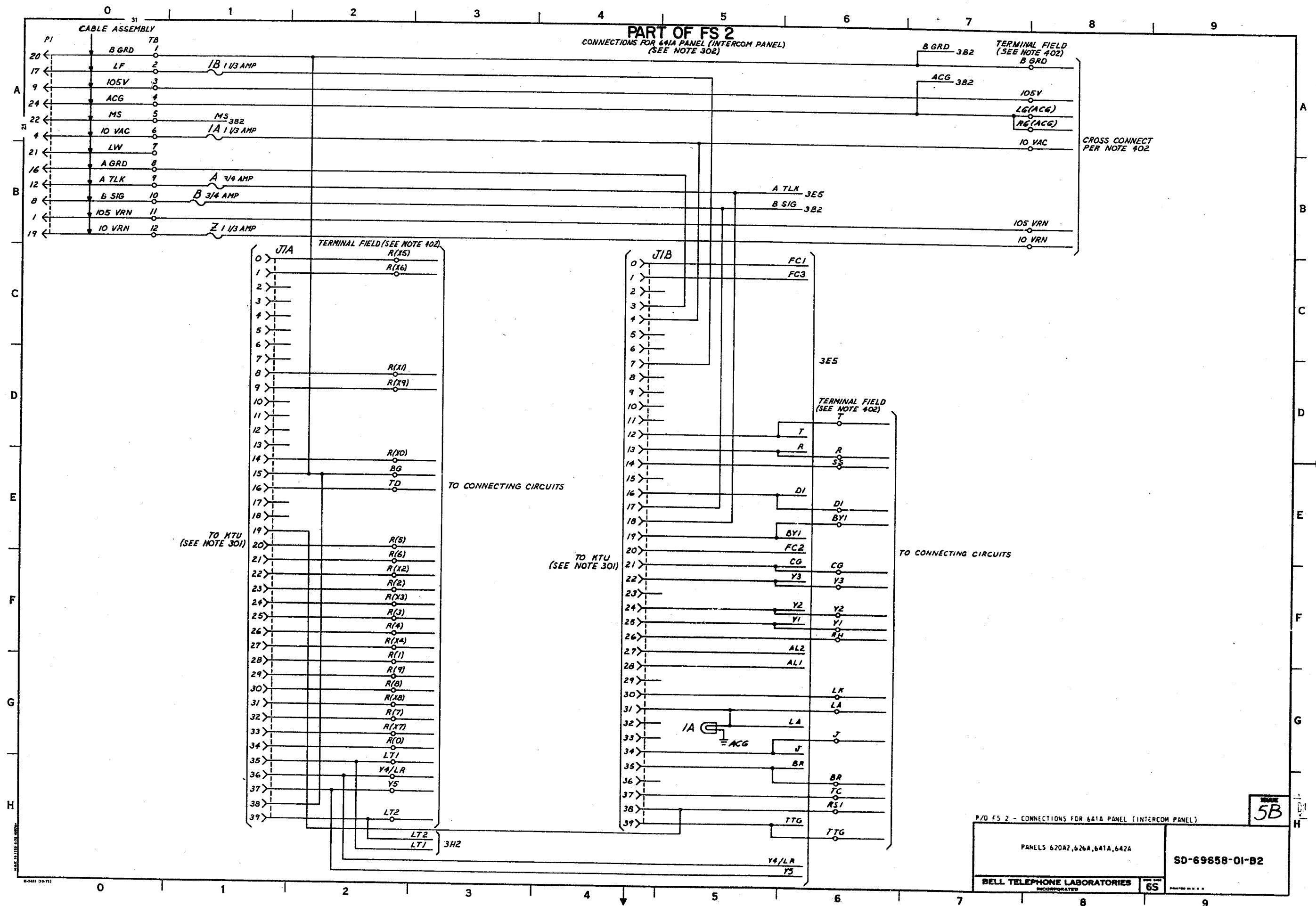
②

6

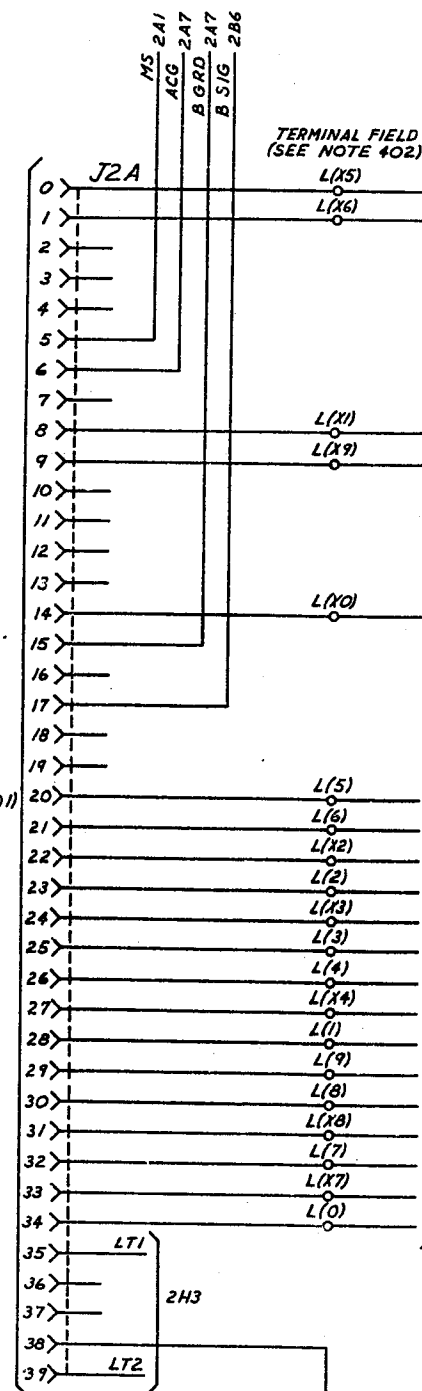
FS I (MFR DISC.)
 CONNECTIONS FOR 620A PANEL (LINE PANEL)
 (SEE NOTE 302)



SD-69658-01-B1

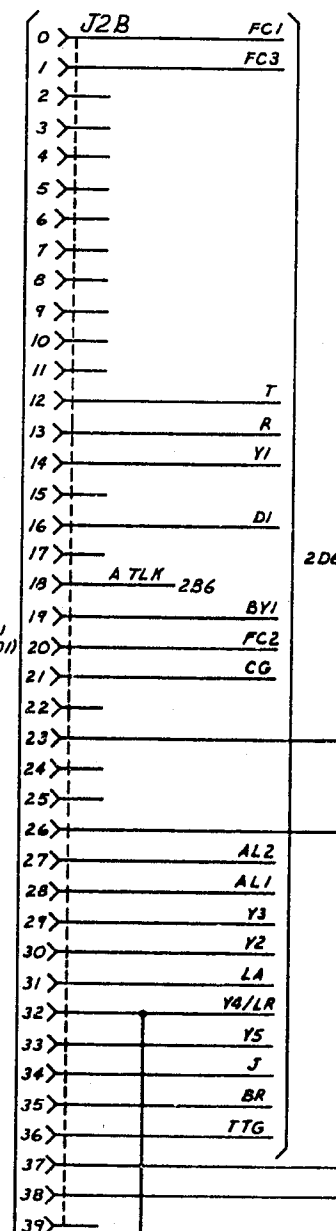


PART OF FS 2 CONNECTIONS FOR 641A PANEL (INTERCOM PANEL) (SEE NOTE 302)



TO CONNECTING CIRCUITS

TO MTU
(SEE NOTE 301)



TO CONNECTING CIRCUITS

P/O FS2 - CONNECTIONS FOR 641A PANEL (INTERCOM PANEL)

PANELS 620A2, 626A, 641A, 642A

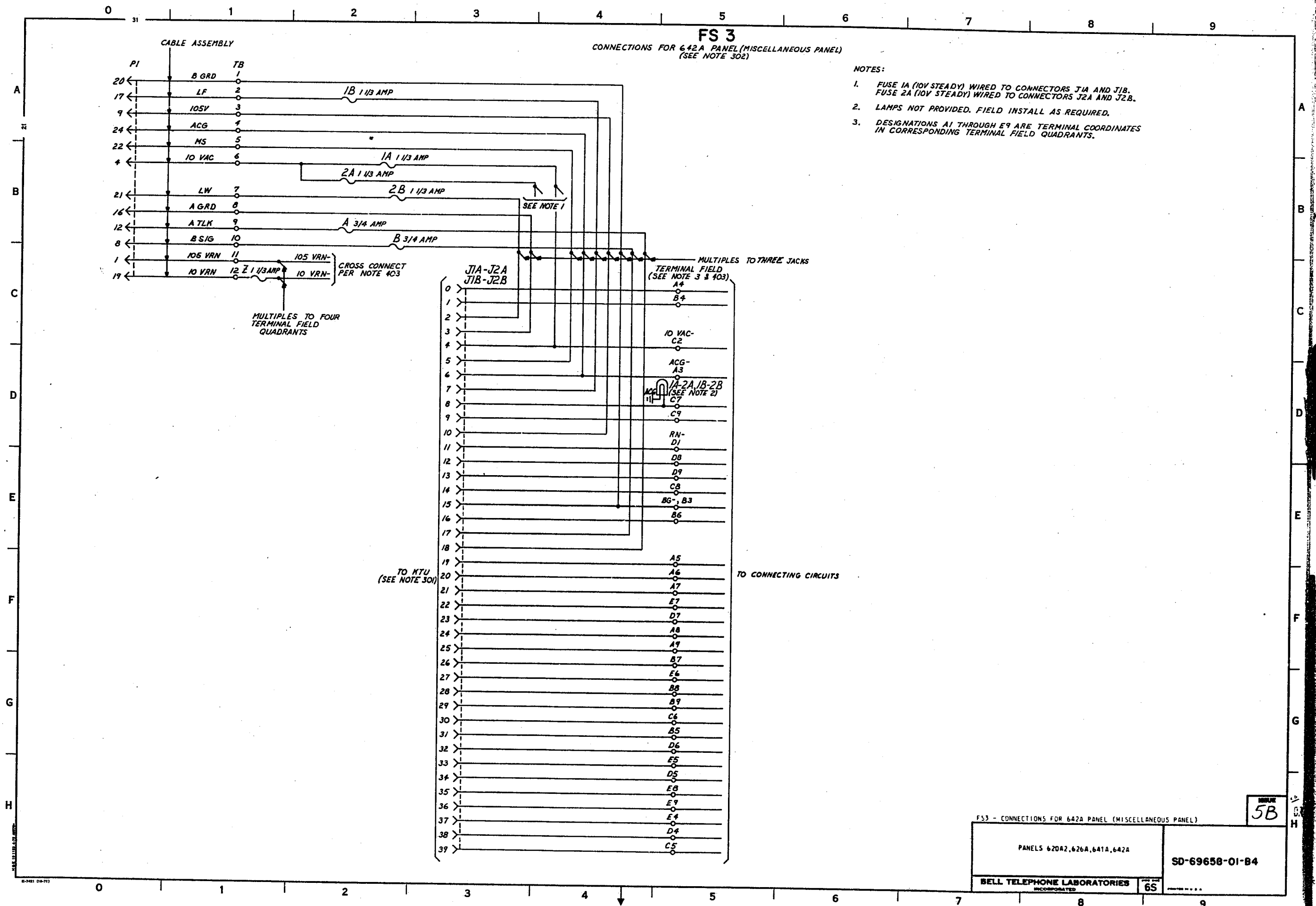
BELL TELEPHONE LABORATORIES
INCORPORATED

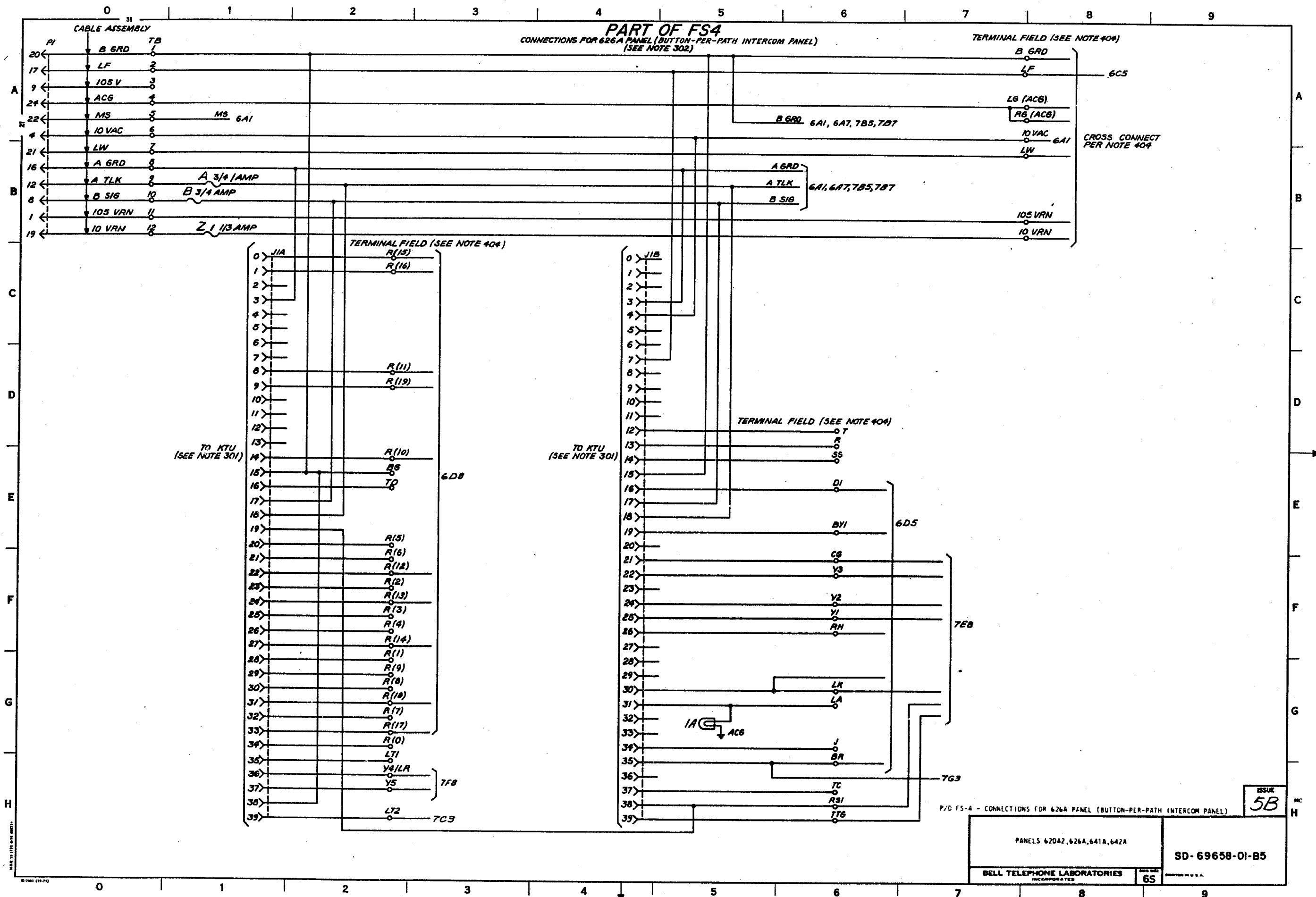
6S

SD-69658-01-B3

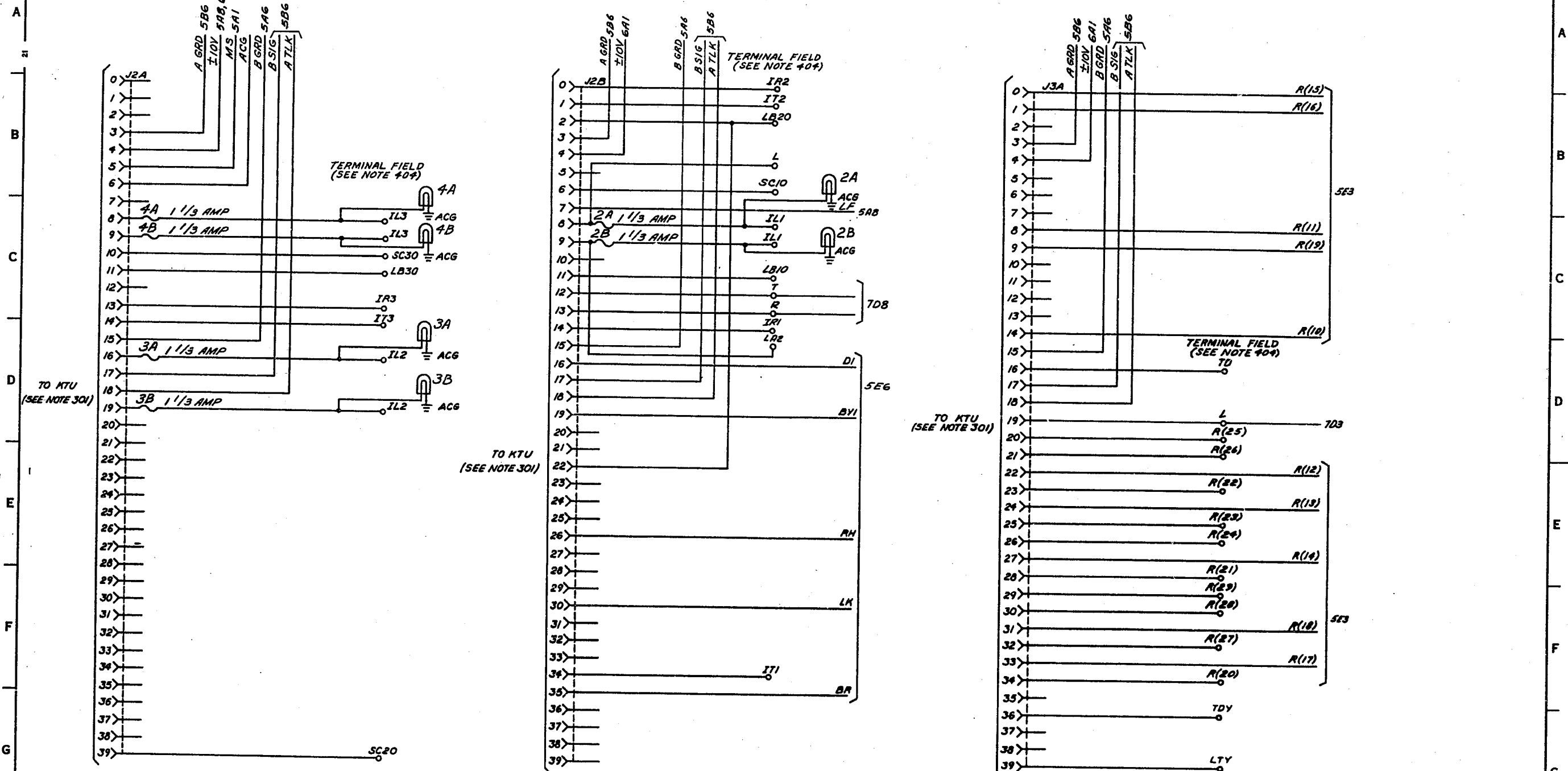
5B

SD-69658-01-B3

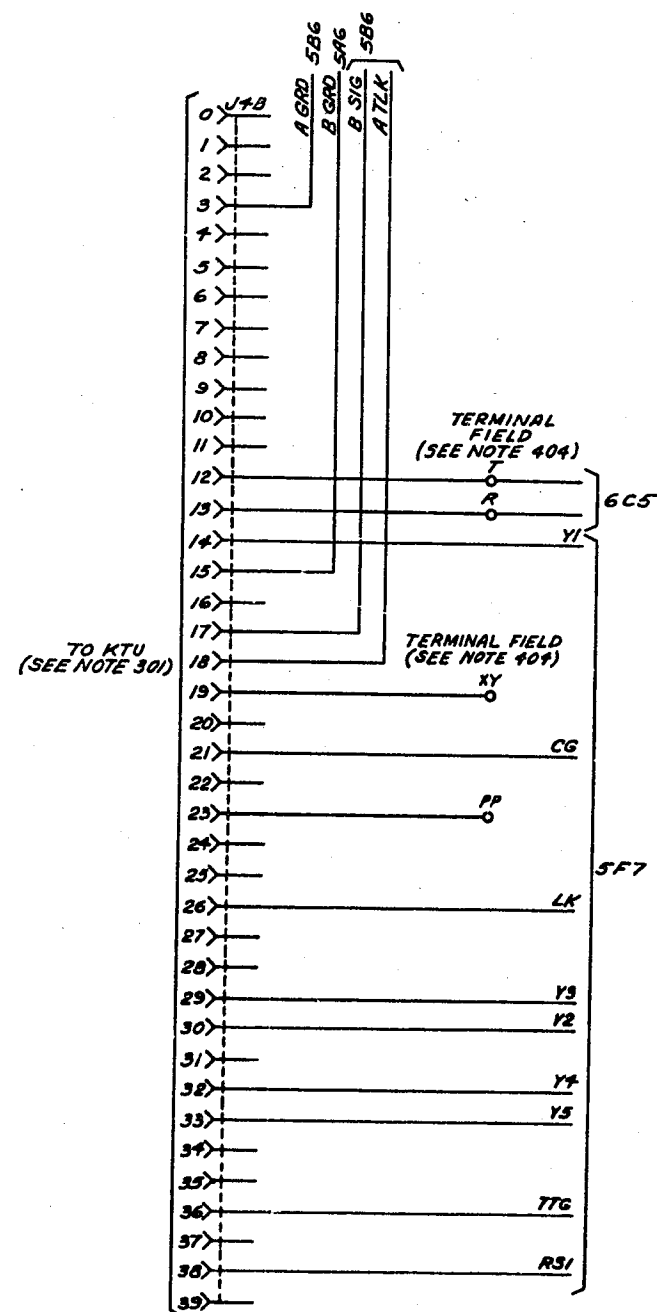
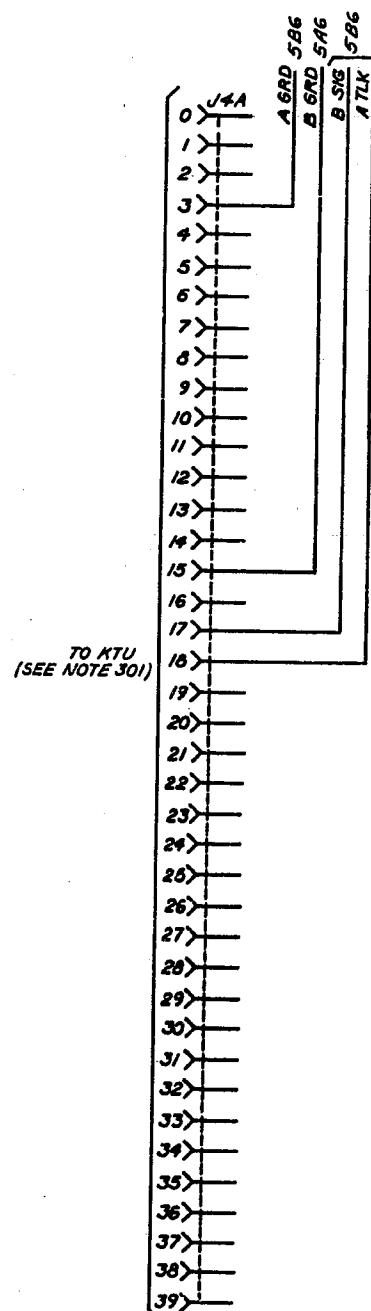
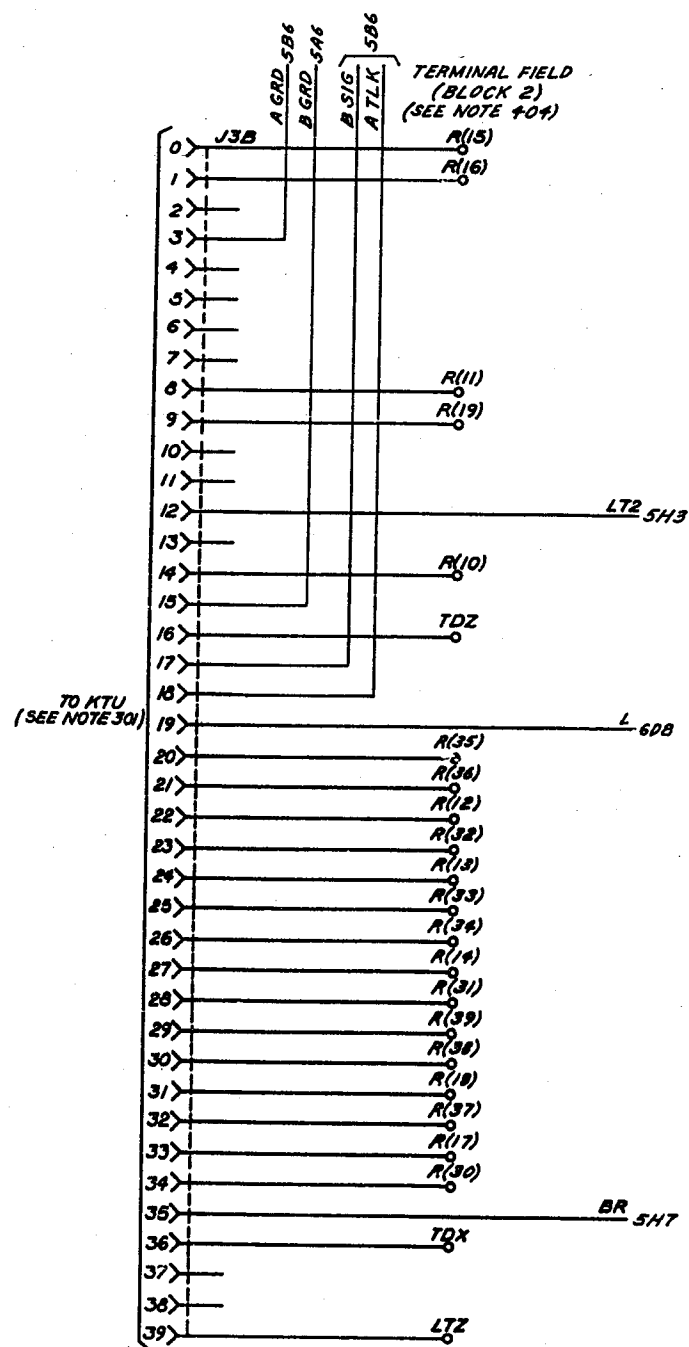




PART OF FS 4 CONNECTIONS FOR 626A PANEL (BUTTON-PER-PATH INTERCOM PANEL) SEE NOTE 404



PART OF FS 4
CONNECTIONS FOR 626A PANEL (BUTTON-PER-PATH INTERCOM PANEL)
SEE NOTE 404



PART OF FS 4

5B

PANELS 620A2, 626A, 641A, 642A

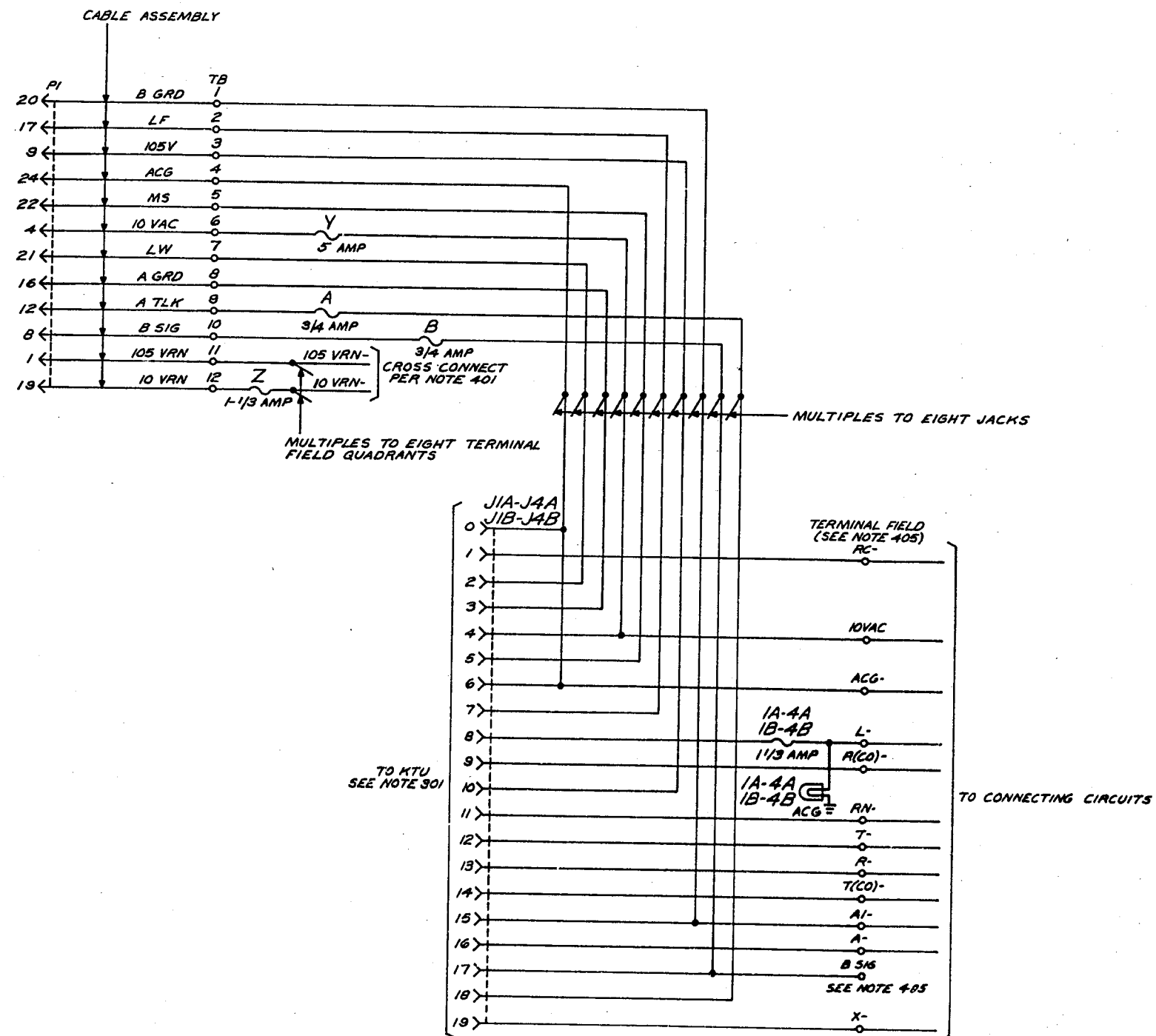
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BELL TELEPHONE LABORATORIES

65

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FS 5
CONNECTIONS FOR 620A2 PANEL (LINE PANEL)
(SEE NOTE 302)



FS 1 - CONNECTIONS FOR 620A2 PANEL (LINE PANEL)

PANELS 620A2, 626A, 641A, 642A		DWG SIZE	ISSUE
		65	5B
BELL LABORATORIES	SD-69658-01	-B8	

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APP FIG. 1 (MFR DISC.)

CABLE ASSEMBLY DESIG	LOC	CODE
P1	1A2	841052673

CONNECTOR DESIG	LOC	CODE
[4] J1A-J4A	1D4	913B
[4] J1B-J4B	1D4	913B

FUSE DESIG	LOC	CODE
A	1C3	70H
B	1C4	70H
Z	1C3	70A
[4] 1A-4A	1E5	70A
[4] 1B-4B	1E5	70A

LAMP DESIG	LOC	CODE
[4] 1A-4A	1D6	51A
[4] 1B-4B	1D6	51A

APP FIG. 2

CABLE ASSEMBLY DESIG	LOC	CODE
P1	2A0	841052673

CONNECTOR DESIG	LOC	CODE
J1A	2C1	914B
J1B	2C4	914B
J2A	3C1	914B
J2B	3C4	914B

FUSE DESIG	LOC	CODE
A	2B1	70H
B	2B1	70H
Z	2B1	70A
1A	2A1	70A
1B	2A1	70A

LAMP DESIG	LOC	CODE
1A	2G5	51A

APP FIG. 3

CABLE ASSEMBLY DESIG	LOC	CODE
P1	4A0	841052673

CONNECTOR DESIG	LOC	CODE
[2] J1A-J2A	4C3	914B
[2] J1B-J2B	4C3	914B

FUSE DESIG	LOC	CODE
A	4B2	70H
B	4B2	70H
Z	4C1	70A
1A	4B2	70A
1B	4A2	70A
2A	4B2	70A
2B	4B2	70A

LAMP (SEE NOTE 1)

APP FIG. 4

CABLE ASSEMBLY DESIG	LOC	CODE
P1	5A0	841052673

CONNECTOR DESIG	LOC	CODE
[4] J1A-J4A	5C1, 6A0, 6A6, 6A8	914B
[4] J1B-J4B	5C4, 6A3, 7B1, 7B4	914B

FUSE DESIG	LOC	CODE
A	5B1	70H
B	5B1	70H
Z	5B1	70A
[3] 2A-4A	6C0, 6C3, 6D0	70A
[3] 2B-4B	6C0, 6C3, 6D0	70A

LAMP DESIG	LOC	CODE
[4] 1A-4A	5G5, 6B2, 6B5, 6C2	51A
[3] 2B-4B	6C2, 6C5, 6D2	51A

APP FIG. 5

CABLE ASSEMBLY DESIG	LOC	CODE
P1	8B2	841052673

CONNECTOR DESIG	LOC	CODE
[4] J1A-J4B	8D4	913B
[4] J1B-J4B	8D4	913B

FUSE DESIG	LOC	CODE
[4] 1A-4B	8E5	70A
[4] 1B-4B	8E5	70A
A	8C3	70H
B	8C4	70H
Y	8B3	70D
Z	8C3	70A

LAMP DESIG	LOC	CODE
[4] 1A-4A	8F5	51A
[4] 1B-4B	8F5	51A

NOTES:

1. LAMPS NOT PROVIDED. FIELD INSTALL AS REQUIRED.
USE 51A TYPE.

SD-69658-01-C1

APP FIG. 1, 2, 3, 4, 5

PANELS 620A2, 626A, 641A, 642A

BELL TELEPHONE LABORATORIES

6S

SD-69658-01-C1

5B

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL		VOLTAGE RANGE	

CIRCUIT NOTES:(CONT)

103.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD
5B	FIG. 5	FIG. 1		FIG.5		FIG.1

102.

FEATURE OR OPTION			APP FIG.	APP OR WRG	QUANTIT
620A2 LINE CIRCUIT PANEL			5		1 PER PNL
641A INTERCOM PANEL X			2		1 PER PNL
SELECTOR CIRCUIT	10 OR 19 CODES	NON TOUCH-TONE		Z	
		TOUCH-TONE		N	
	10 CODES	TOUCH-TONE OR NON TOUCH-TONE		F	
STATION BUSY				ZF**	
AUDIBLE RINGBACK				ZE**	
DIAL TONE				ZD**	
LONG LINE CIRCUIT				Q	
LAMP SIGNAL	STEADY			W	
	FLASHING	10 CODES		H	
		19 CODES		V	
AUDIBLE SIGNAL	INTER- RUPTED	10V AC BUZZER		E	
		105V 30 HZ RINGER		X	
	SINGLE SPURT	10V AC BUZZER		G	
		105V 30 HZ RINGER		M	
642A MISCELLANEOUS PANEL			3		1 PER PNL
626A BUTTON-PER-PATH PANEL			4		1 PER PNL
INTERCOM PATHS		STATION CODES			
1	19			N	
	37			Y	
2,3	19			S	
	37			FW**	
NON TOUCH-TONE				Z	

* ALL OPTIONS SHOWN ARE CONTROLLED BY SD-69567-01 (EXCEPT FOR THE 626A PANEL, WHICH IS COVERED HEREIN) (SEE NOTE 402,403, 404).

** APPEAR ON KTU OPTION BLOCK.

++ FW OPTION IS FACTORY PROVIDED.

(MFR DISC.)

FEATURE OR OPTION		PROVIDE	
		APP FIG.	APP OR WRG
620A LINE CIRCUIT PANEL		1	1 PER PNL

SD-69658-01-D1

CIRCUIT NOTES

PANELS 620A2,626A,641A,642A

BELL TELEPHONE LABORATORIES
INCORPORATED

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SD-69658-01-D1

5B

INFORMATION NOTES:

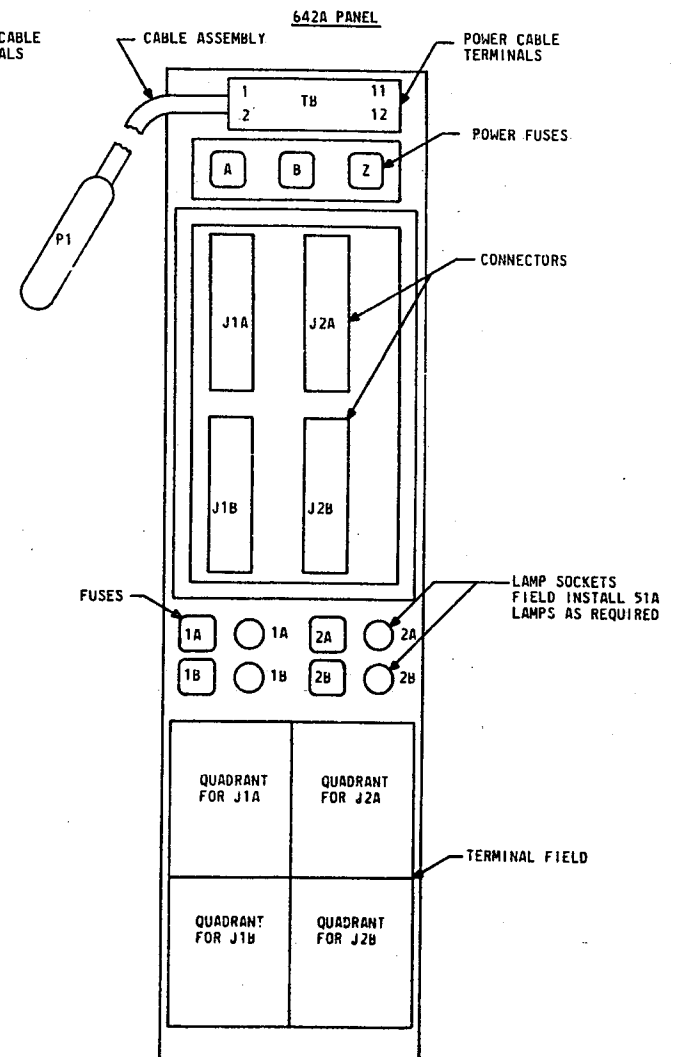
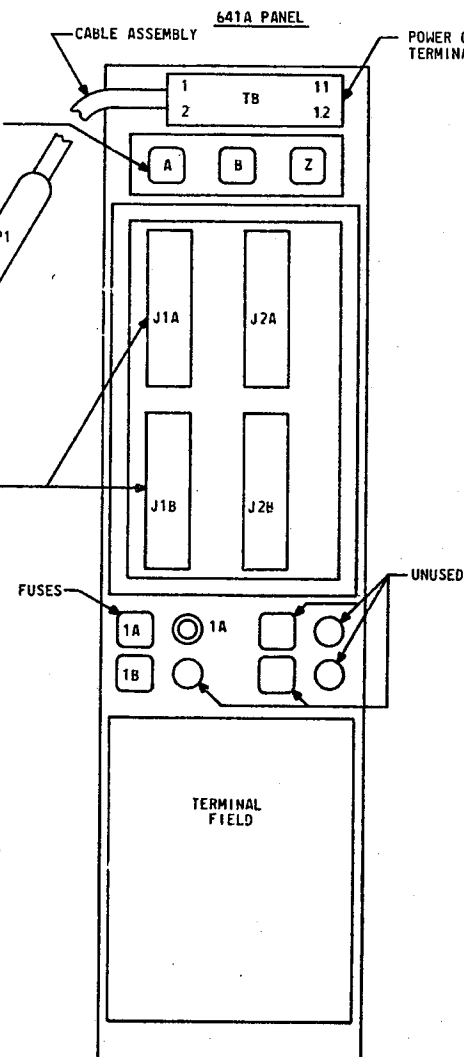
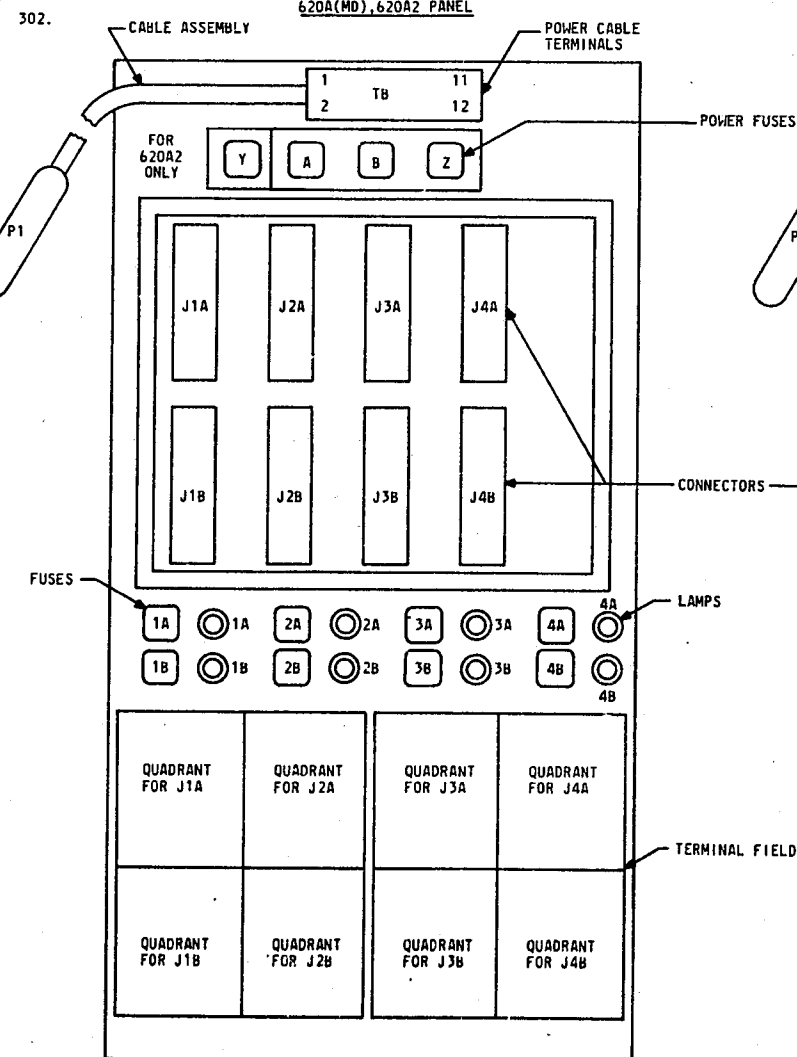
301. THIS SD CONTROLS THE WIRING AND TERMINAL ARRANGEMENTS FOR THE 620, 626, 641 AND 642 TYPE PANELS. THESE PANELS PROVIDE MOUNTING ARRANGEMENTS FOR 1A2 KEY TELEPHONE UNITS. THE APPLICATION OF EACH CIRCUIT (KTU) AND ITS INTER-CONNECTION ARE SHOWN IN THE CONTROLLING SD FOR THE VARIOUS KTU'S LISTED IN THE SUPPORTING INFORMATION ON SHEET A1. THE FOLLOWING TABLE SHOWS WHICH KTU'S CAN BE USED IN EACH OF THE PANELS.

KTU #	SIZE		CIRCUIT FUNCTION	MODULAR PANEL			
	INCHES	PINS		620A (MD), 620A2	641A	642A	626A
400B,C,D	4	18	CO/PBX LINE	/			
401A,B	4	18	MANUAL INTERCOM	/			
407B,C	8	80	DIAL INTERCOM, 10-CODE		J1A,B		
413A	4	18	AUXILIARY RING-UP	/			
414A	4	20	MANUAL SIGNALING, RINGDOWN TIE LINE	/			
415A	4	18	AUTOMATIC, DC SIGNAL RINGDOWN TIE LINE	/			
416A	4	20	STATION LINE	/			
417A	4	40	ADD-ON CONFERENCE			/	
418A	4	20	SHORT RANGE, DC SIGNAL TIE LINE			/	
419A	8	80	AUTOMATIC SIGNALING RINGDOWN TIE LINE	/			
420A	4	18	LONG LINE			/	
421A	4	40	POWER FAILURE TRANSFER			/	
422B	4	40	STATION BUSY SELECTOR			/	
424A,B,C	8	80	DIAL INTERCOM, 19-CODE		J1A,B		J1A,B
425A,B	8	80	DIAL INTERCOM, FLASHING LAMP		J2A,B		
426A & 427B (SERIES 4) OR 427C	8	80	TOUCH-TONE ADAPTER			/	
428A	4	40	MULTILINE EXCLUSION			/	
429A,B	4	40	SUPPLEMENTARY HOLD DETECTOR			/	
430A	4	20	FLUTTER GENERATOR			/	
440A	8	80	TOUCH-TONE ADAPTER		J2A,B	/	J4A,B
444A,B	8	80	SELECTOR EXTENDER 39-CODE				J3A,B
448A	4	40	DUAL TIMER CIRCUIT			/	
449A	4	40	DUAL FLIP-FLOP CIRCUIT			/	
451B	4	40	MUSIC ON HOLD			/	
454B	8	80	3 PATH ACCESS INTERCOM CIRCUIT				J2A,B
460B	8	80	2 PATH ACCESS INTERCOM CIRCUIT				J2A,B
461A	4	18	MANUAL SIGNALING, RINGDOWN PRIVATE LINE	/			
467A	4	18	LOW VOLTAGE MONITOR CIRCUIT	/		/	
469A	4	18	LAMP EXTENDER 20 LAMPS	/			
471A	4	18	TOLL RESTRICTION CIRCUIT (BATTERY REVERSAL)	/			
476A	4	20	DIAL INTERCOM, BUSY TONE, DIAL TONE, AND AUD RINGBACK TONE			/	
478B	8	80	TOUCH-TONE ADAPTER		/	/	J4A,B
479A	8	80	TOLL RESTRICTION CIRCUIT (ROTARY DIAL)	**		/	
494	8	80	TOUCH-TONE SELECTOR CKT		/		
498	8	80	MUSIC-ON-HOLD			/	

* OR LATER MODEL

** CAN BE USED IN 620A(MD), 620A2 PANEL PROVIDED THAT THE GUIDE BETWEEN THE JACK'S IS REMOVED.

INFORMATION NOTES: (CONT)



INFORMATION NOTES

PANELS 620A2, 626A, 641A, 642A

BELL TELEPHONE LABORATORIES

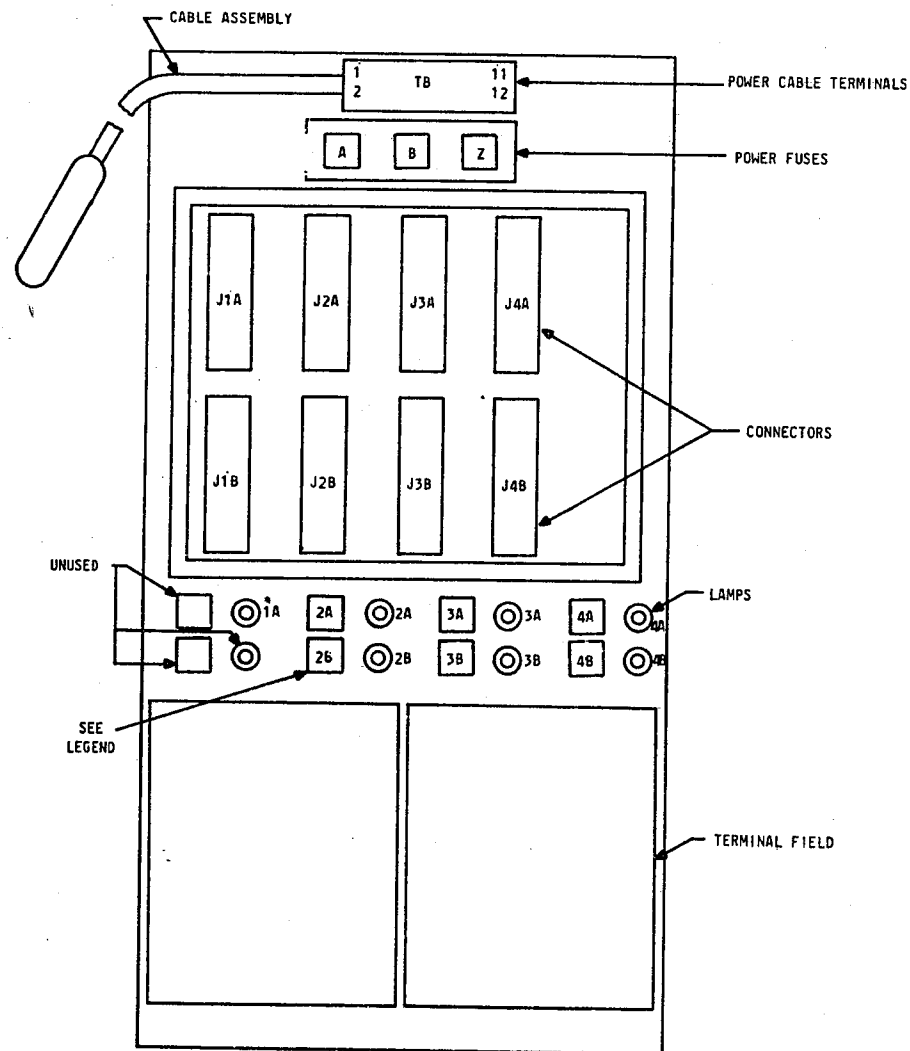
6S

SD-69658-01-D2A

SD-69658-01-D2A

INFORMATION NOTES: (CONT)
302.

626A PANEL



LEGEND

FUSE	INTERCOM LAMPS
2A	IL1, 0-19
2B	IL1, 20-39
3A	IL2, 0-19
3B	IL2, 20-39
4A	IL3, 0-19
4B	IL3, 20-39

5B

PANELS: 620A2, 626A, 641A, 642A

SD-69658-01-D2B

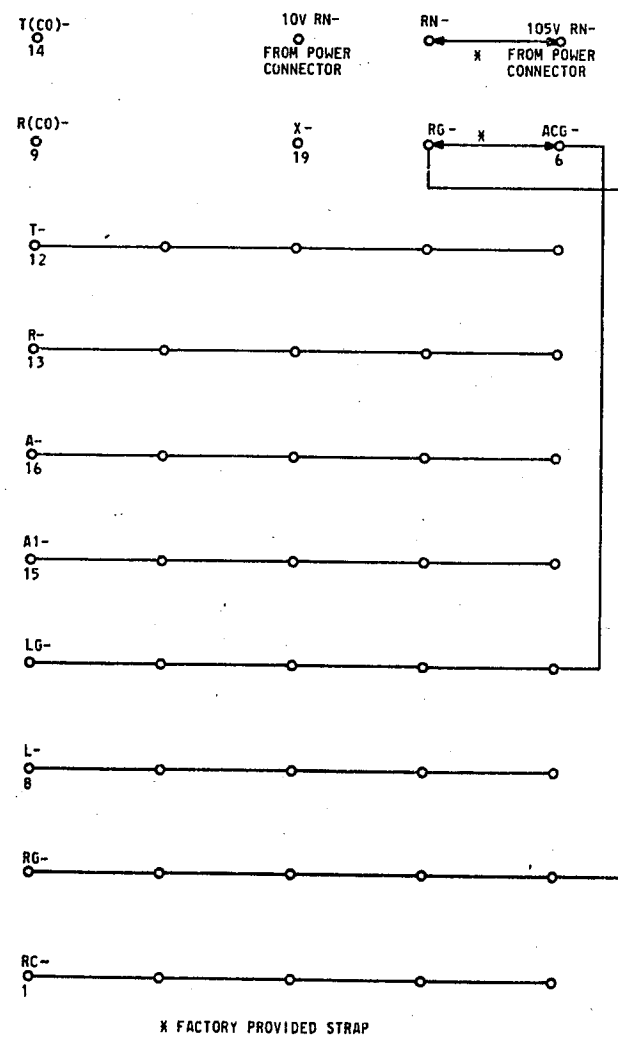
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INCORPORATED

6S

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401.

P/O OF TERMINAL FIELD FOR 620A PANEL
NUMBERS UNDER TERMINALS DESIGNATE CONNECTIONS
TO JACK PINS OF CORRESPONDING JACK.
(TYPICAL QUADRANT SEE NOTE 302)

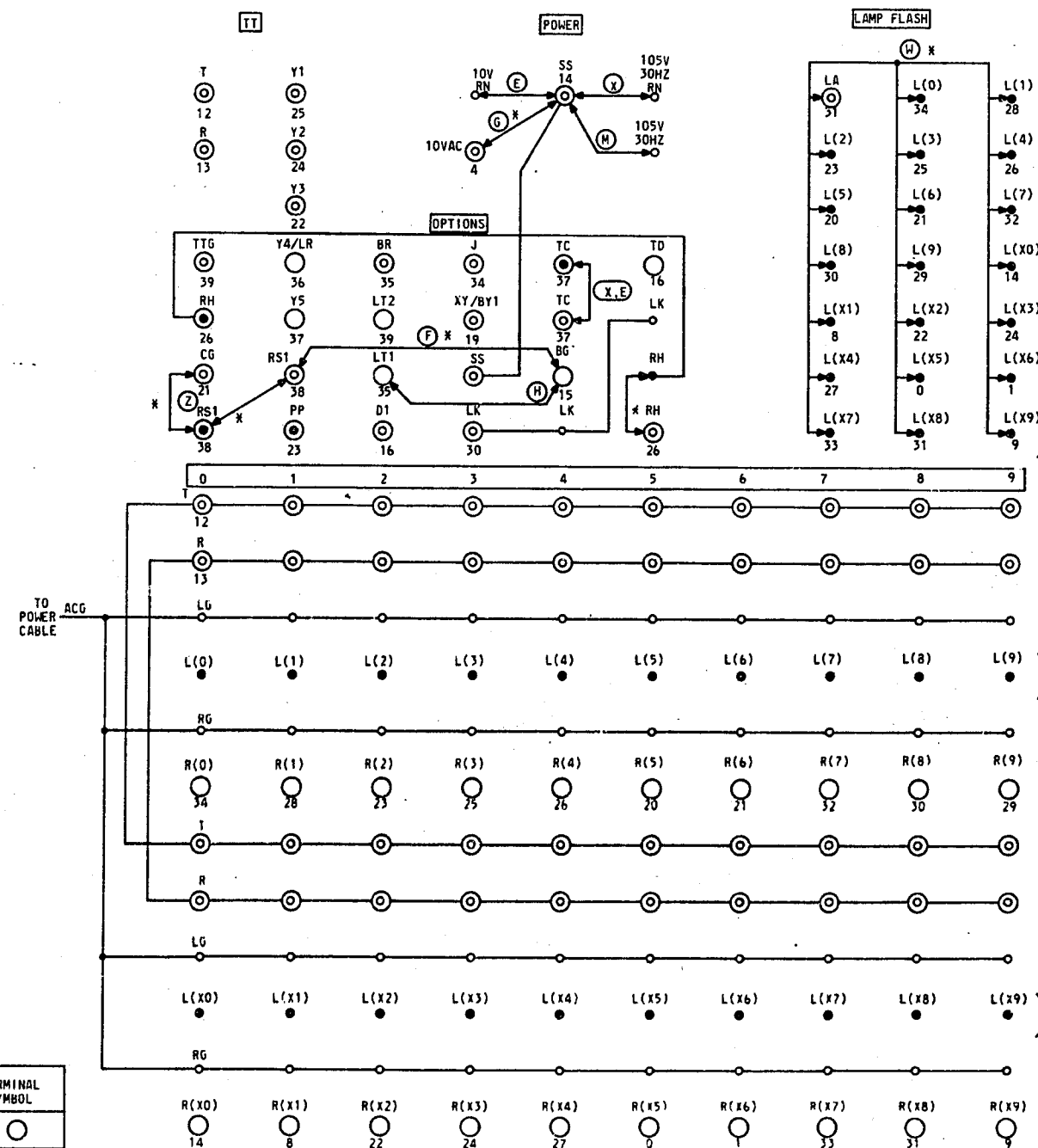


X FACTORY PROVIDED STRAP

CROSS CONNECTION INFORMATION AND NOTES: (CONT)

402.

TERMINAL FIELD FOR 641A PANEL (SEE NOTE 302)
NUMBERS UNDER TERMINALS DESIGNATE CONNECTIONS
TO JACK PINS.
(SEE LEGEND)



LEGEND	
CONNECTOR	TERMINAL SYMBOL
J1A	
J1B	
J2A	
J2B	

* FACTORY PROVIDED STRAP

TERMINAL FIELDS 620A, 641A
CROSS CONNECT INFORMATION AND NOTES

PANELS 620A2, 626A, 641A, 642A

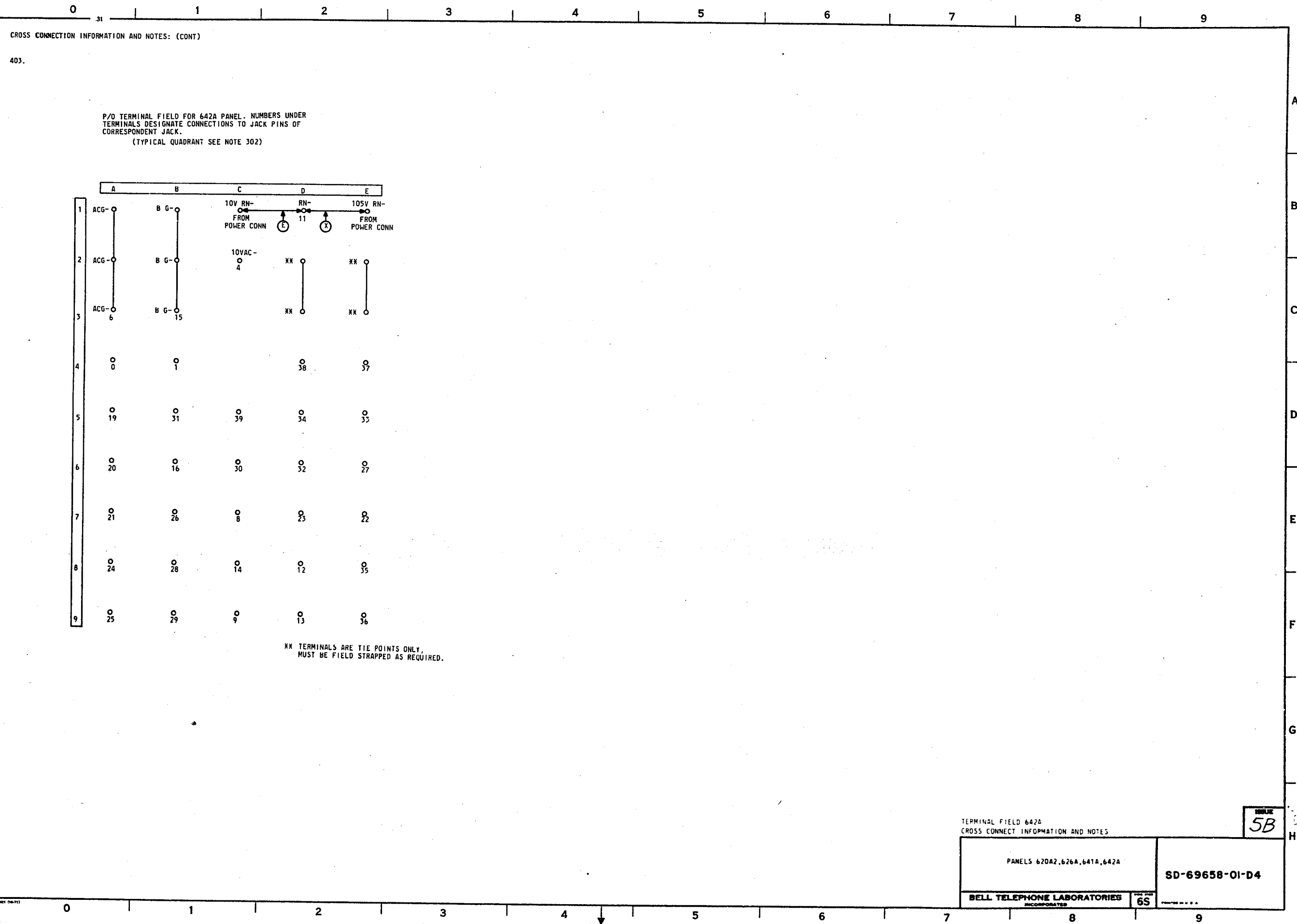
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SD-69658-01-D3



SD-69658-01-D4

TERMINAL FIELD 642A
CROSS CONNECT INFORMATION AND NOTES

PANELS 620A2, 626A, 641A, 642A

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

SD-69658-01-D4

5B

CROSS CONNECTION INFORMATION AND NOTES:(CONT)

404. TERMINAL FIELD FOR 626A PANEL (SEE NOTE 302) NUMBERS UNDER TERMINALS DESIGNATE CONNECTIONS TO JACK PINS. (SEE LEGEND) UNNUMBERED TERMINALS APPEAR ONLY ON TERMINAL BLOCK EXCEPT AS NOTED.

* TO POWER CABLE TERMINALS.

IF A 19 CODE (424 TYPE KTU ONLY) INTERCOM IS REQUIRED THE R(10) TO R(19) LEADS WILL BE OBTAINED FROM THIS ROW.

† THE 1, 2 AND 3 DIGITS ARE FACTORY WIRED AS TRANSFER DIGITS AND CANNOT BE USED AS STATION CODES ALTHOUGH OTHER STATION CODES CAN BE USED AS TRANSFER DIGITS IT IS NOT RECOMMENDED.

** FOR 18V AC, 105V -30 Hz, 24V DC OR AS REQUIRED FOR SIGNALLING PURPOSES OTHER THAN PROVIDED (EXTERNAL LEAD OR SEPARATE SUPPLY MAY BE REQUIRED).

NOTE: RING GROUND (RG) ALSO SERVES AS LAMP GROUND (LG) AND MUST BE LOOPED ON THE STATION CROSS-CONNECT FIELD TO THE LAMP GROUNDS (CONTINUOUS STRAPPING IS REQUIRED).

LEGEND

CONNECTOR	TERMINAL SYMBOL
J1A	○
J1B	⊙
J2A	●
J2B	⊗
J3A	□
J3B	⊠
J4B	⊡

INTERCOM PATH 1
STATION CODES
(0-19)

INTERCOM PATH
1 & 2
RINGER LEADS
STATION CODES
(0-19)
SEE NOTE

INTERCOM PATH 2
STATION CODES
(0-19)

INTERCOM PATH 1
STATION CODES
(20-39)

INTERCOM PATH
1 & 2
RINGER LEADS
STATION CODES
(20-39)
SEE NOTE

INTERCOM PATH 2
STATION CODES
(20-39)

†† FW OPTION IS FACTORY WIRED

‡ USE 183B2 ADAPTER OR TERMINATE ON UNUSED TERMINAL(S) OF CORRESPONDING TRANSFER DIGIT CODE (FOR EXAMPLE STA CODE 1 TERMINALS ARE USED HERE)

‡‡ WIRING ON FLEXIBLE PRINTED BOARD (INTERNAL)

* Y OPTION REQUIRES USE OF A 469A KTU (LAMP EXTENDER) IN CONNECTOR J2B. (TERMINAL IT2 NOW PROVIDES INPUT TO THE 469A KTU).

** USE CONTINUOUS STRAPPING IF NECESSARY.

BLOCK 1

BLOCK 2

TERMINAL FIELD 626A
CROSS CONNECT INFORMATION AND NOTES

PANELS 620A2, 626A, 641A, 642A

BELL TELEPHONE LABORATORIES
RECOMMENDED

6S

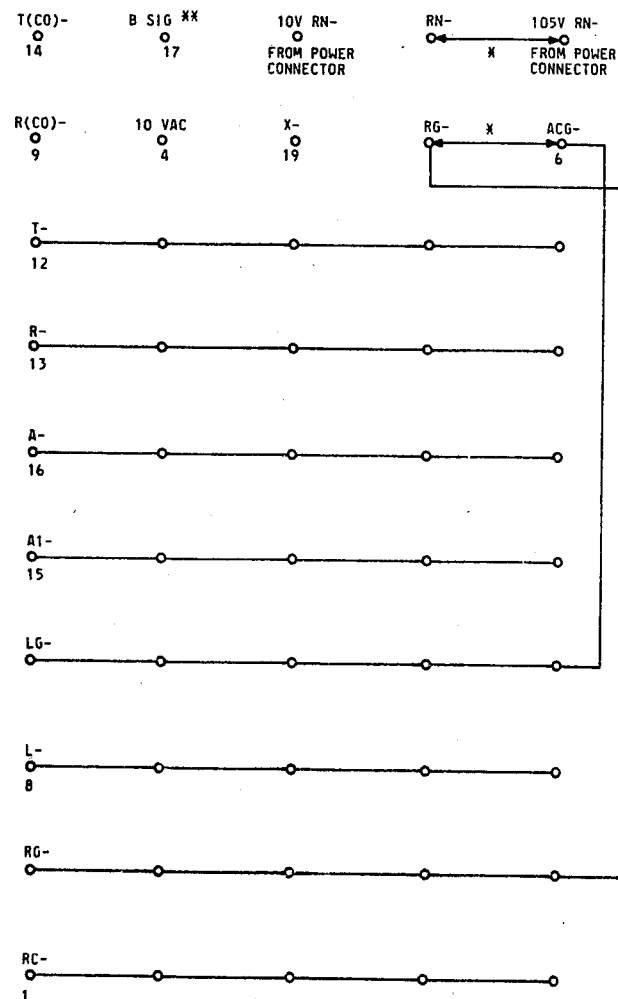
SD-69658-01-D5

5B

CROSS CONNECTION INFORMATION AND NOTES:

405.

P/O OF TERMINAL FIELD FOR 620A2 PANEL
NUMBERS UNDER TERMINALS DESIGNATE CONNECTIONS
TO JACK PINS OF CORRESPONDING JACK.
(TYPICAL QUADRANT SEE NOTE 302)



X FACTORY PROVIDED STRAP
XX APPEARS IN QUADRANT 1A ONLY

TERMINAL FIELDS 620A2
CROSS CONNECT INFORMATION AND NOTES

PANELS 620A2, 626A, 641A, 642A		DWG SIZE	ISSUE
		6S	5B
BELL LABORATORIES	SD-69658-01	-D6	

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