

**6A KEY TELEPHONE SYSTEM**  
**SELECTOR ONLY**  
**CONNECTIONS**

**1. GENERAL**

**1.01** This section is reissued to:

- (a) Show minor wiring changes.
- (b) Provide connection information for:
  - Auxiliary relay circuit, 227B KTU which replaces the 227A KTU rated MD.
  - TOUCH-TONE® adapter, 247A (MD) KTU formerly covered in Section 518-410-410.

(c) Delete installation information.

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

**1.02** Identification and installation information for this arrangement is covered in Section 518-410-100.

**2. CONNECTIONS**

**2.01** The connection diagrams serve as a guide to the installer in connecting the 6A system key telephone units to provide the desired features.

**2.02** When using a 247A (MD) KTU to provide TOUCH-TONE dialing, adjust H and L relays before placing unit in service. See Section 518-310-113 for adjustment.

**2.03 Connection Index**

Table A — Selector Only Wiring Options

Fig. 1 — Selector Circuit Connections to Transfer Circuit

Fig. 2 — Addition of Add-On Conference Circuit

Fig. 3 — Addition of Preset Conference Circuit

Fig. 4 — Addition of Long Line Circuit

Fig. 5 — Addition of Auxiliary Relay Busy Lamp Circuit

Fig. 6 — Addition of 247A (MD) KTU for TOUCH-TONE Service

Fig. 7 — Addition of 247B KTU for TOUCH-TONE Service

**TABLE A**  
**SELECTOR ONLY WIRING OPTIONS**

WIRING	OPTION
X	Without Transfer Circuit (Max Nine Codes)
W	With Transfer Circuit (over Nine Codes)
K	System with Preset Conference Circuit
H	Under 40 Lamps on System (without Aux Rel Busy Lamp Ckt)
M	Over 40 Lamps on System (with Aux Rel Busy Lamp Ckt)
R	Long Line Ckt Associated with Preset Conference Ckt

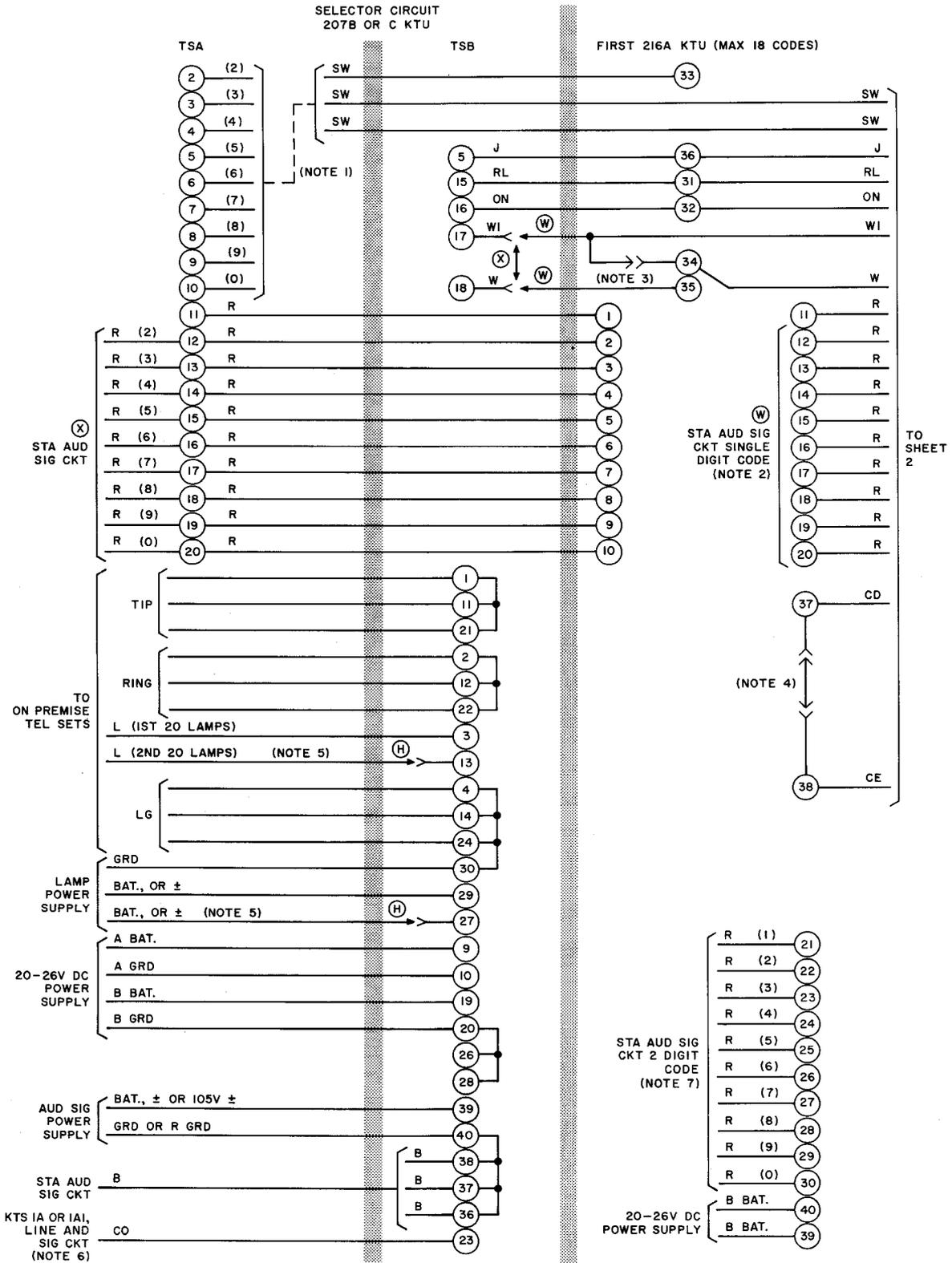


Fig. 1 — Selector Circuit Connection to Transfer Circuit (Sheet 1)



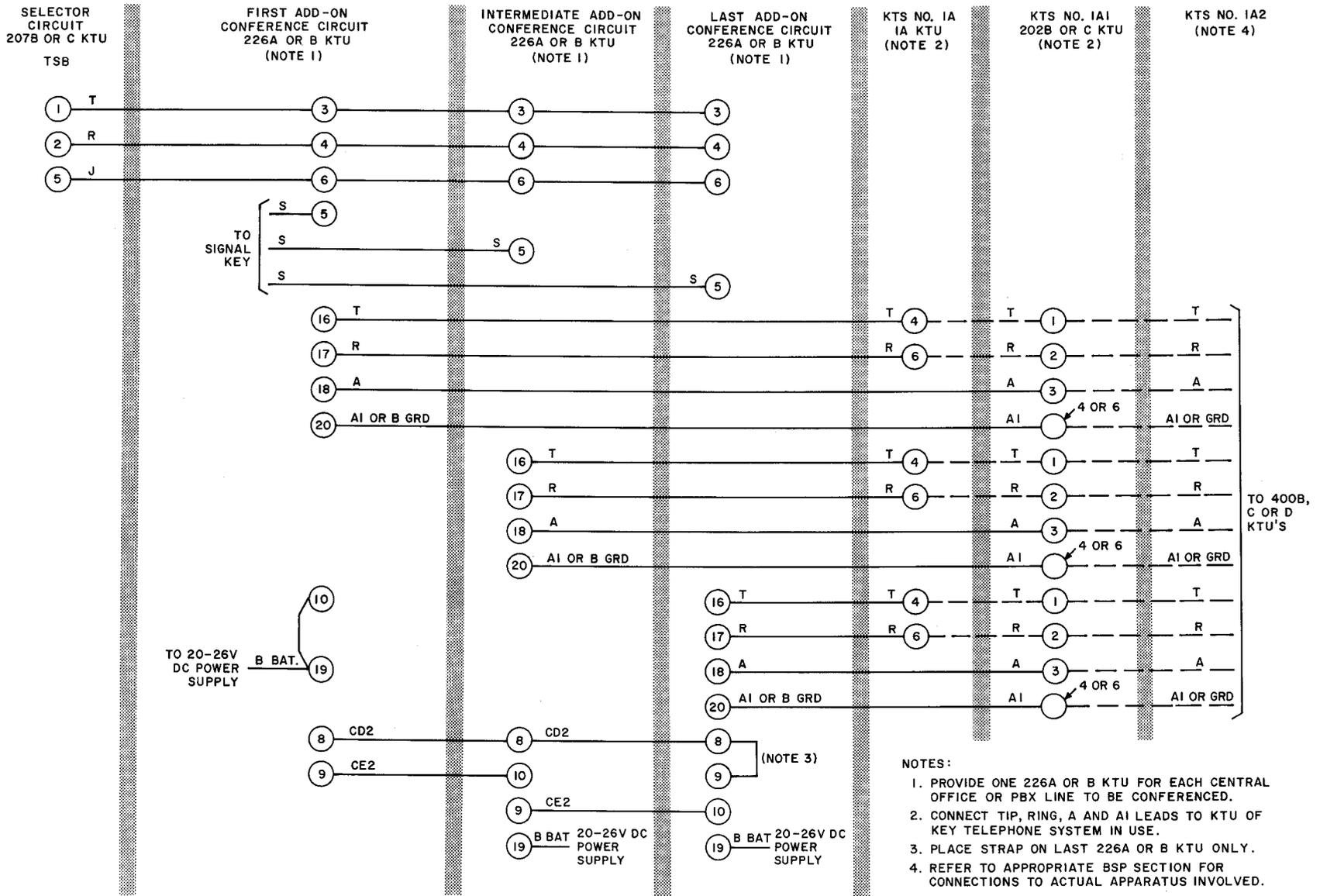
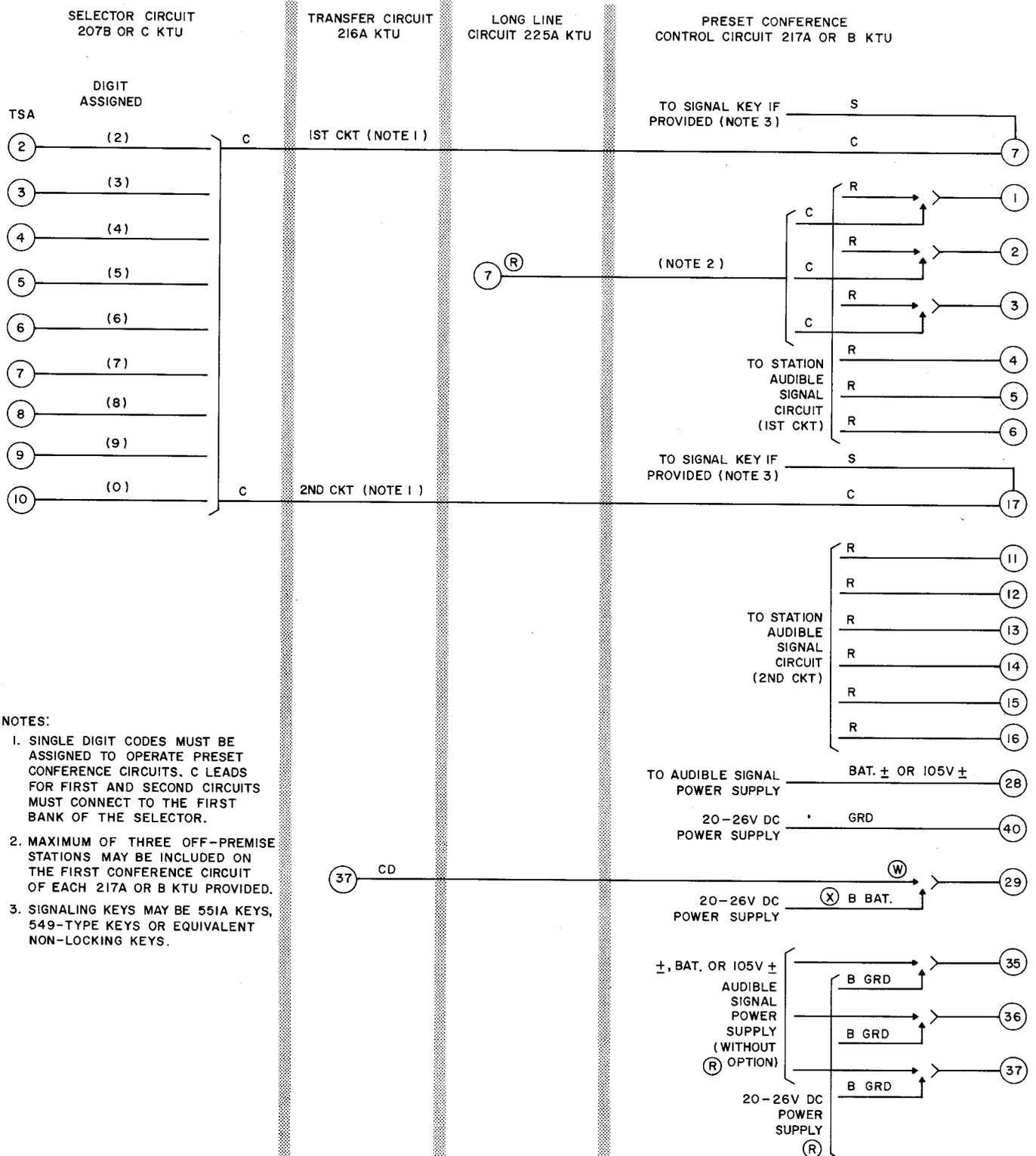


Fig. 2 — Addition of Add-On Conference Circuit



NOTES:

1. SINGLE DIGIT CODES MUST BE ASSIGNED TO OPERATE PRESET CONFERENCE CIRCUITS. C LEADS FOR FIRST AND SECOND CIRCUITS MUST CONNECT TO THE FIRST BANK OF THE SELECTOR.
2. MAXIMUM OF THREE OFF-PREMISE STATIONS MAY BE INCLUDED ON THE FIRST CONFERENCE CIRCUIT OF EACH 217A OR B KTU PROVIDED.
3. SIGNALING KEYS MAY BE 551A KEYS, 549-TYPE KEYS OR EQUIVALENT NON-LOCKING KEYS.

Fig. 3 — Addition of Preset Conference Circuit

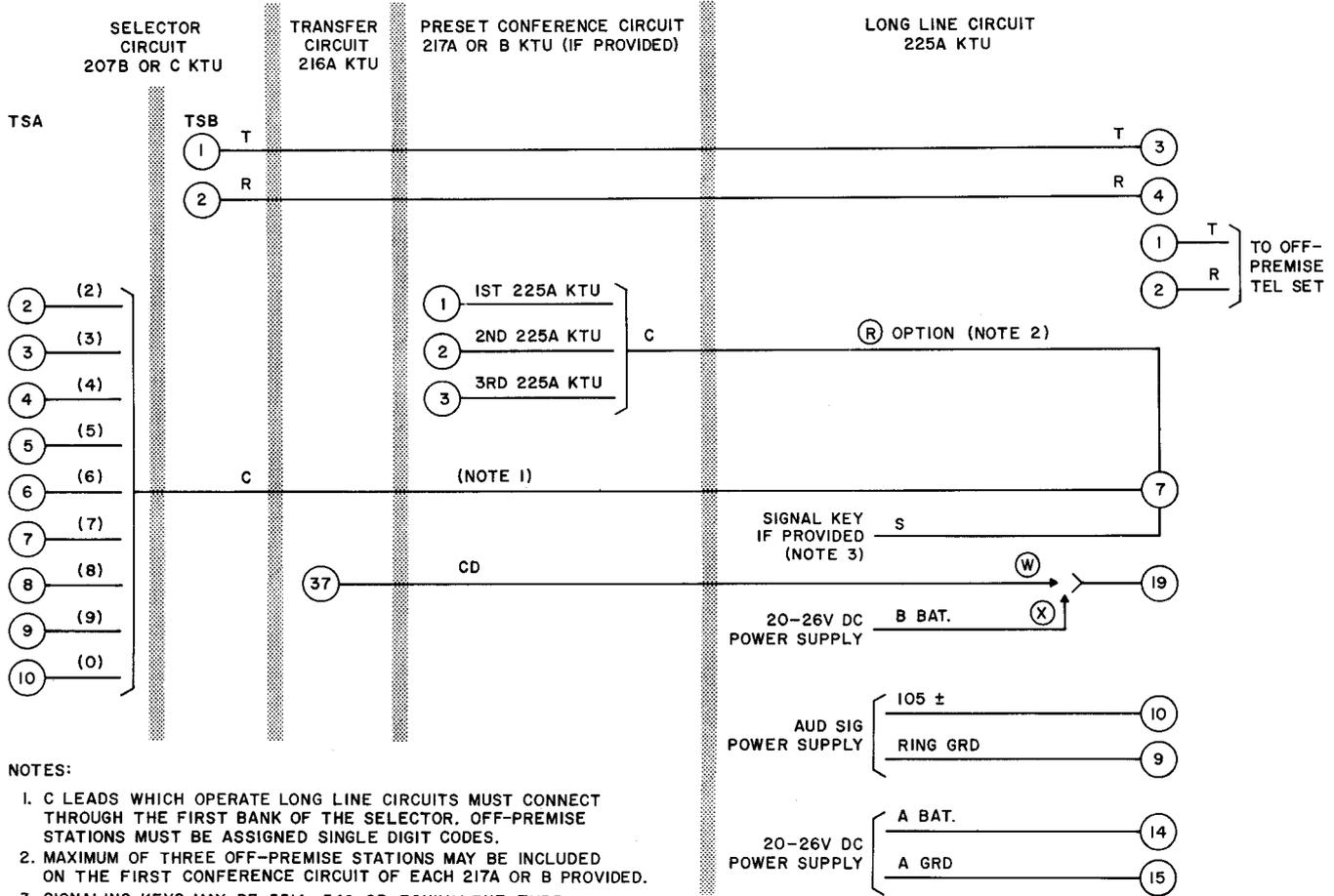


Fig. 4 — Addition of Long Line Circuit

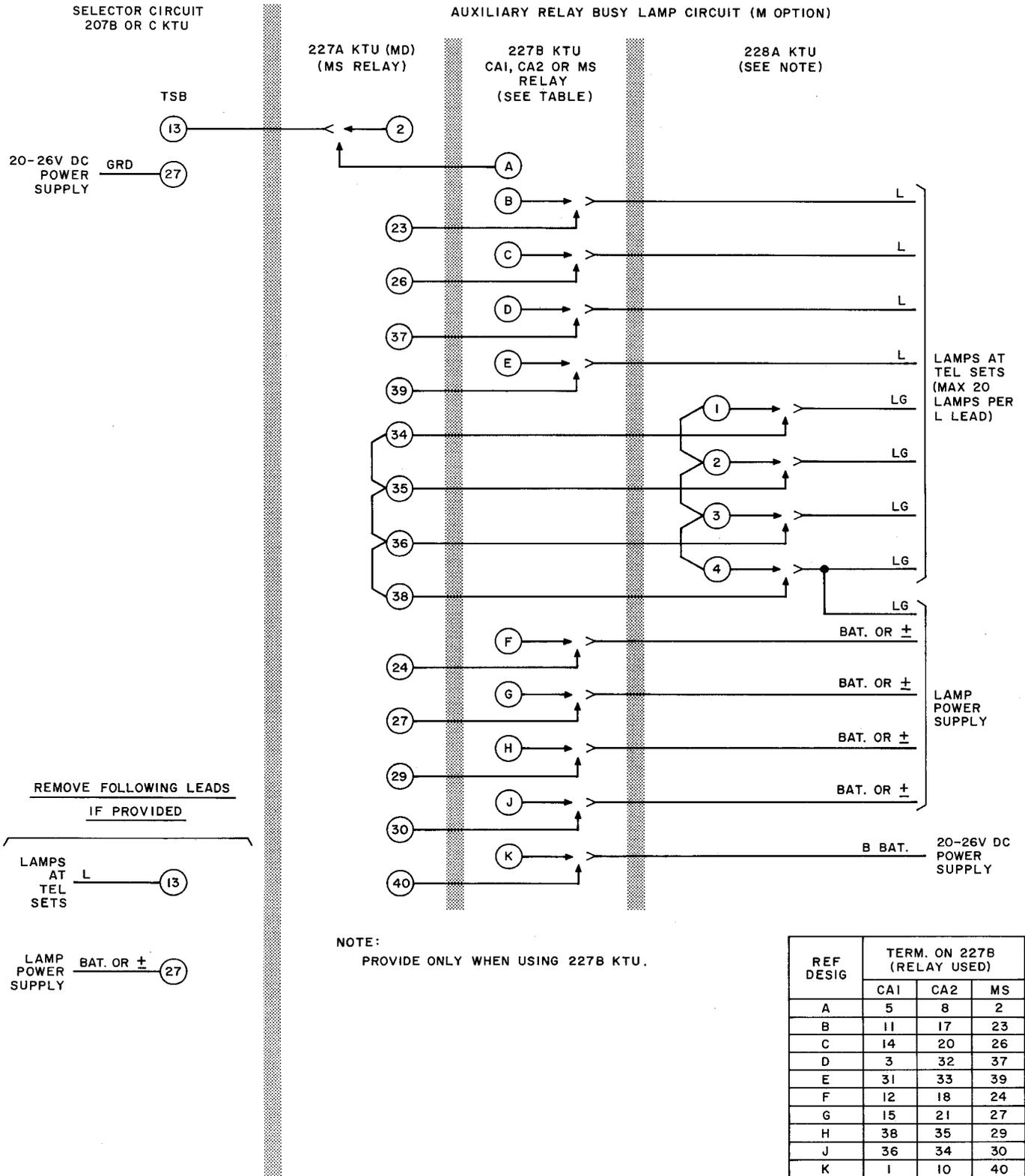


Fig. 5 - Addition of Auxiliary Relay Busy Lamp Circuit

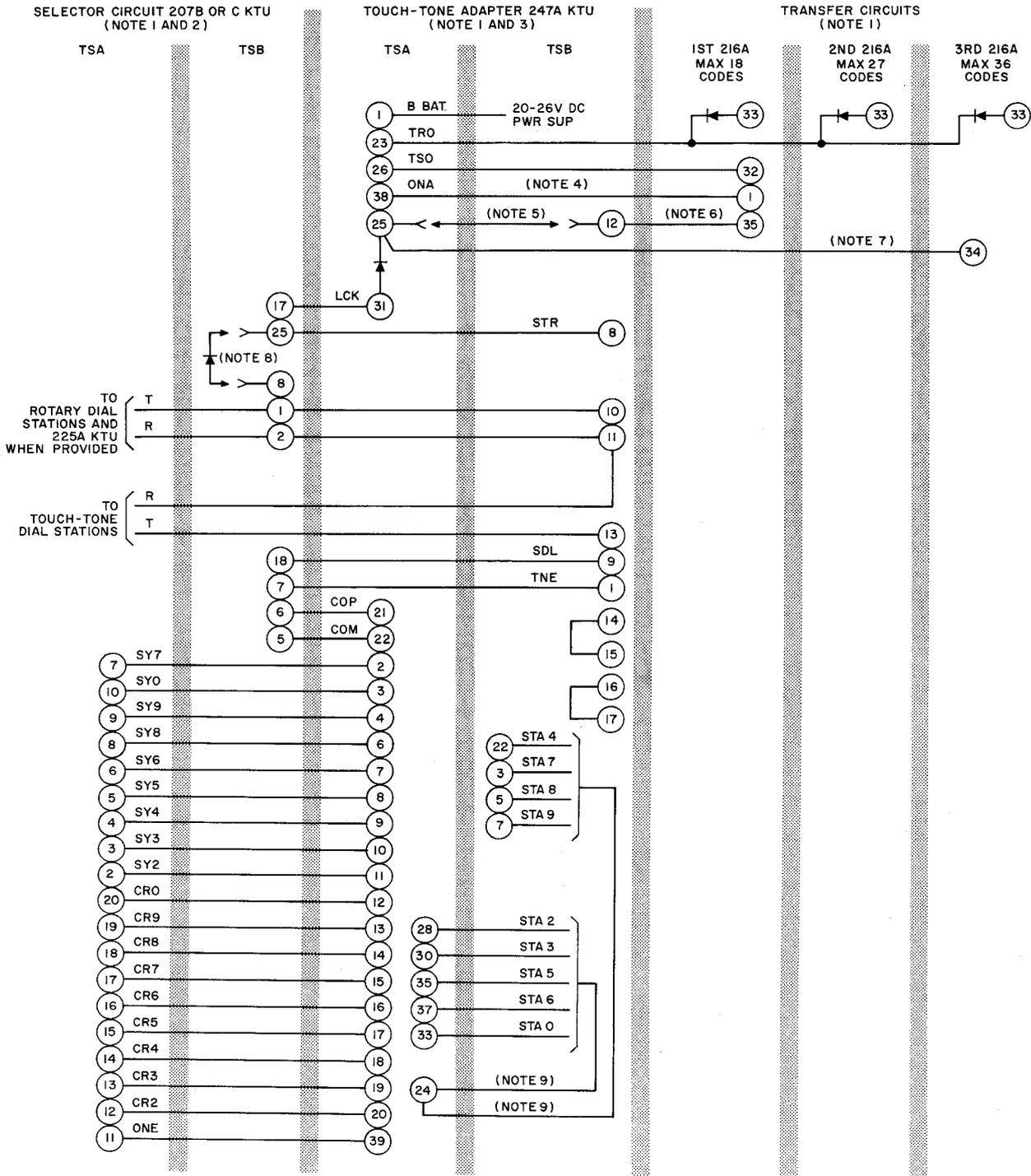
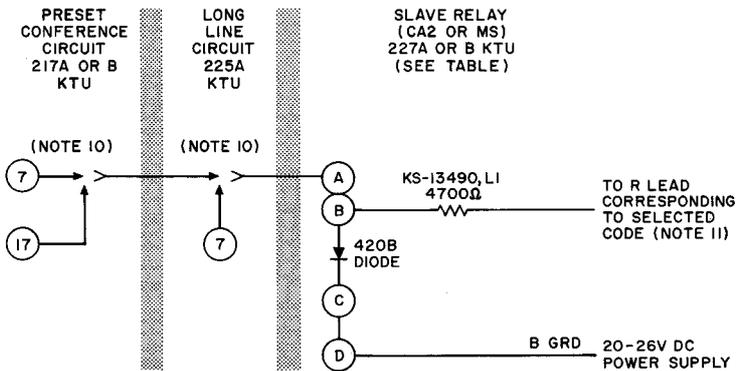
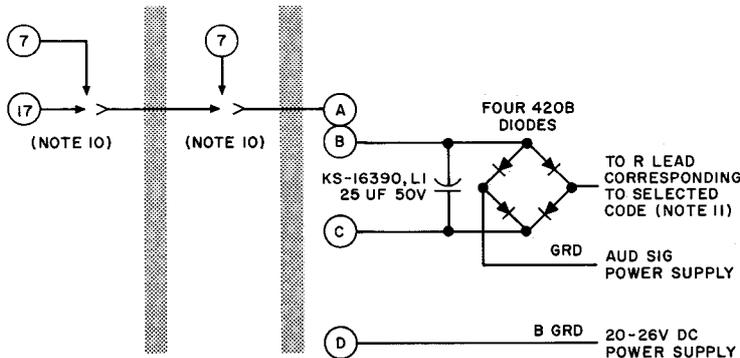


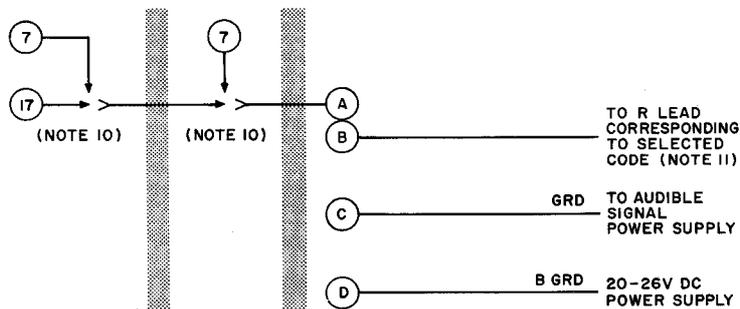
Fig. 6 — Addition of 247A (MD) KTU for TOUCH-TONE Service (Sheet 1)



6A- 105V± USED TO OPERATE AUDIBLE SIGNALS OF 6A KTS



6B- 18V± USED TO OPERATE AUDIBLE SIGNALS OF 6A KTS



6C- BAT. USED TO OPERATE AUDIBLE SIGNALS OF 6A KTS

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL DIODES SHOWN ARE 400J OR EQUIVALENT AND MUST BE PROVIDED LOCALLY.
2. EACH LONG LINE (225A KTU) OR PRESET CONFERENCE (217A OR B KTU) CIRCUIT ON THE 6A KTS REQUIRES A SLAVE RELAY. USE THE CA2 OR MS RELAY OF THE 227A OR B KTU AND CONNECT AS SHOWN IN FIG. 6A, B, OR C, WHICHEVER APPLIES.
3. BEFORE PLACING 247A KTU IN SERVICE ADJUST "H" AND "L" RELAY OPERATION. SEE SECTION 518-310-113 FOR ADJUSTMENT.
4. REMOVE EXISTING STRAP BETWEEN TERMINAL 11A OF 207B OR C KTU AND TERMINAL 1 OF THE FIRST 216A KTU IF PROVIDED.
5. PLACE STRAP WHEN 216A KTU NOT PROVIDED. REMOVE EXISTING STRAP BETWEEN TERMINALS 17B AND 18B OF 207B OR C KTU.
6. WHEN A 216A KTU IS PROVIDED, REMOVE EXISTING STRAP BETWEEN TERMINALS 35 OF FIRST 216A KTU AND 18B OF 207B OR C KTU.
7. PLACE STRAP TO TERMINAL 34 OF LAST 216A KTU PROVIDED. REMOVE EXISTING STRAP BETWEEN TERMINALS 34 OF LAST 216A KTU AND 17B OF 207B OR C KTU.
8. PROVIDE DIODE ON 207B KTU ONLY.
9. PROVIDE STRAP FOR EACH SINGLE DIGIT NUMBER APPEARING ON THE 6A KTS.
10. REMOVE EXISTING STRAP BETWEEN TERMINAL 7 OR 17 OF THE 217A OR B KTU OR 7 OF THE 225A KTU AND THE SELECTED C LEAD TERMINAL (TERMINAL 2A-10A) OF THE 207B OR C KTU.
11. PLACE STRAP FOR CORRESPONDING CODE TO THE SELECTED R LEAD TERMINAL (TERMINAL 12-20) OF THE LAST TRANSFER CIRCUIT PROVIDED OR TO THE SELECTED R LEAD TERMINAL (TERMINAL 12A-20A) ON THE 207B OR C KTU WHEN NO TRANSFER CIRCUITS ARE PROVIDED.

REF DESIG	TERMINAL ON 227A OR B KTU FOR	
	CA2 RELAY	MS RELAY
A	20	26
B	10	40
C	8	2
D	21	27

Fig. 6 — Addition of 247A (MD) KTU for TOUCH-TONE Service (Sheet 2)

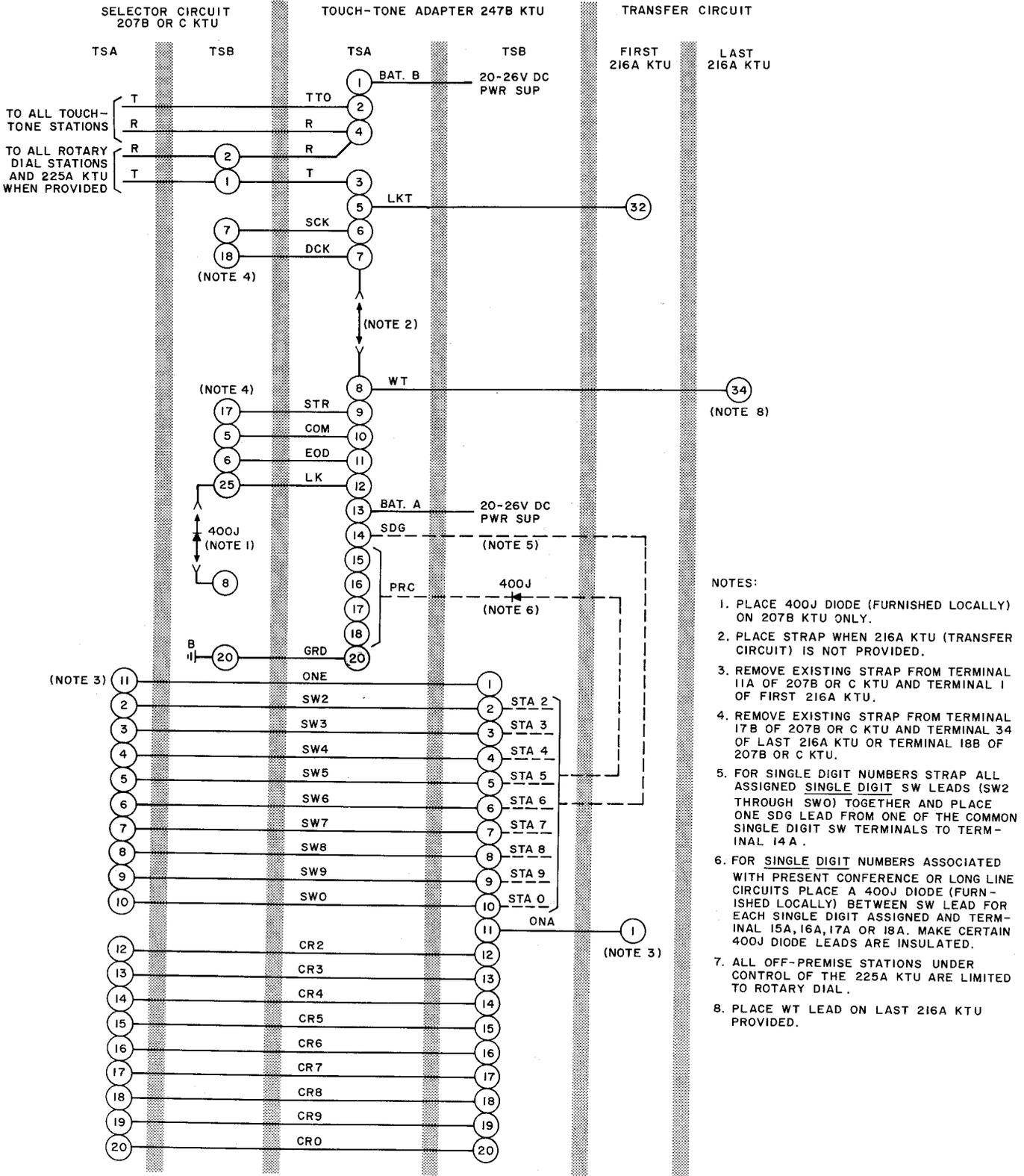


Fig. 7 — Addition of 247B KTU for TOUCH-TONE Service