

## 4-WIRE PRIVATE LINE SYSTEM CONNECTIONS

### 1. GENERAL

**1.01** This section contains information on typical single station set connections and presents station set multiplexing information for the 4-Wire Private Line System. Connections for the emergency power talking and signaling unit are also provided.

**1.02** This section is for use when SS1 system equipment is connected with the 4-Wire Private Line System. For connections using the SS1A System packaged units, refer to Section 518-600-401.

SD-98093 Common Systems, SS1 Selective Signaling System Pulsing, Counting, and Interdigital Control Circuit

SD-69249 Station System No. 102A and Switching System No. 302 Attendant Telephone and Key Circuit (Arranged for Wire Line and Radio Circuit Terminations, and for Calls Between Attendants on an Override Basis)

SD-98124 Common Systems, E4B Signaling Circuit, 2600 Cycle E and M Lead Supervision

### 2. CONNECTION INDEX

Fig. 1—Typical Connections for One Station Set, Using Simplex or Voice Signaling With Time-Out

SD-69294 Station Systems, Visual and Audible Signal Circuits, Key Telephone Systems No. 1A, 1A1, and 6A

Fig. 2—Typical Connections for Two to Four Station Sets, Using SS1 Selective Signaling

SD-69425 Station Systems, Key and Telephone Circuit

Fig. 3—Typical Connections for a 5-Line, 4-Wire Station Set, Using SS1 Selective Signaling and Data Service

SD-69455 Station Systems, Key and Telephone Circuit for 2- and 4-Wire Lines

Fig. 4—Emergency Power Talking and Signaling Unit Connections Arranged for 4-Wire Private Line

SD-69422 Station Systems, Auxiliary Service Transfer Circuit for 4-Wire Lines

463-221-100 Loudspeaker Set—107A

### RELATED REFERENCES

SECTION	TITLE
SD-69566	4-Wire Private Line Terminating and Station Circuit

502-512-401 Telephone Set—500AD Connections

518-600-401 4-Wire Private Line Systems, Connections to SS1A Packaged Units

SECTION 518-600-400

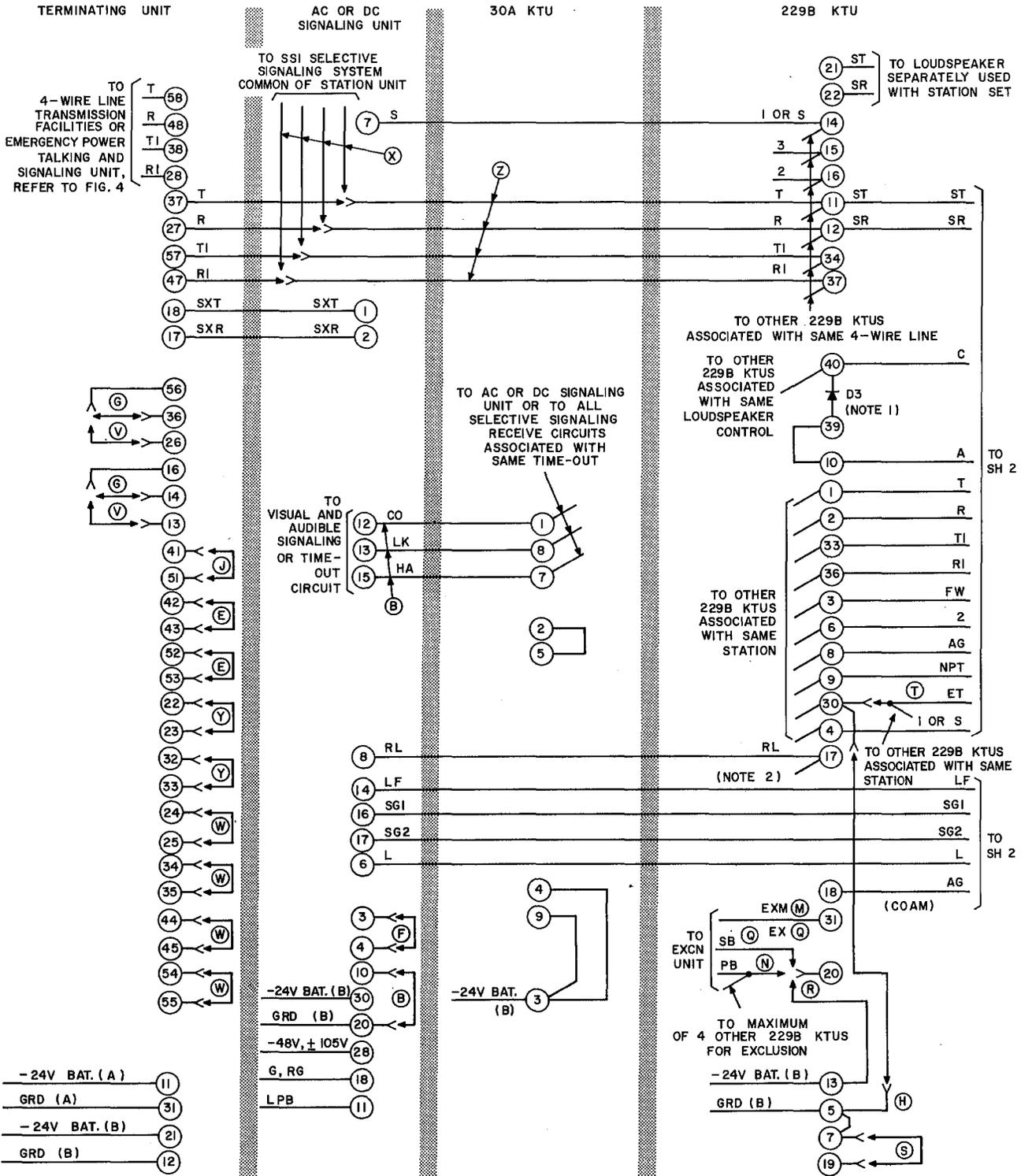


Fig. 1—Typical Connections for One Station Set, Using Simplex or Voice Signaling With Time-Out (Sheet 1)

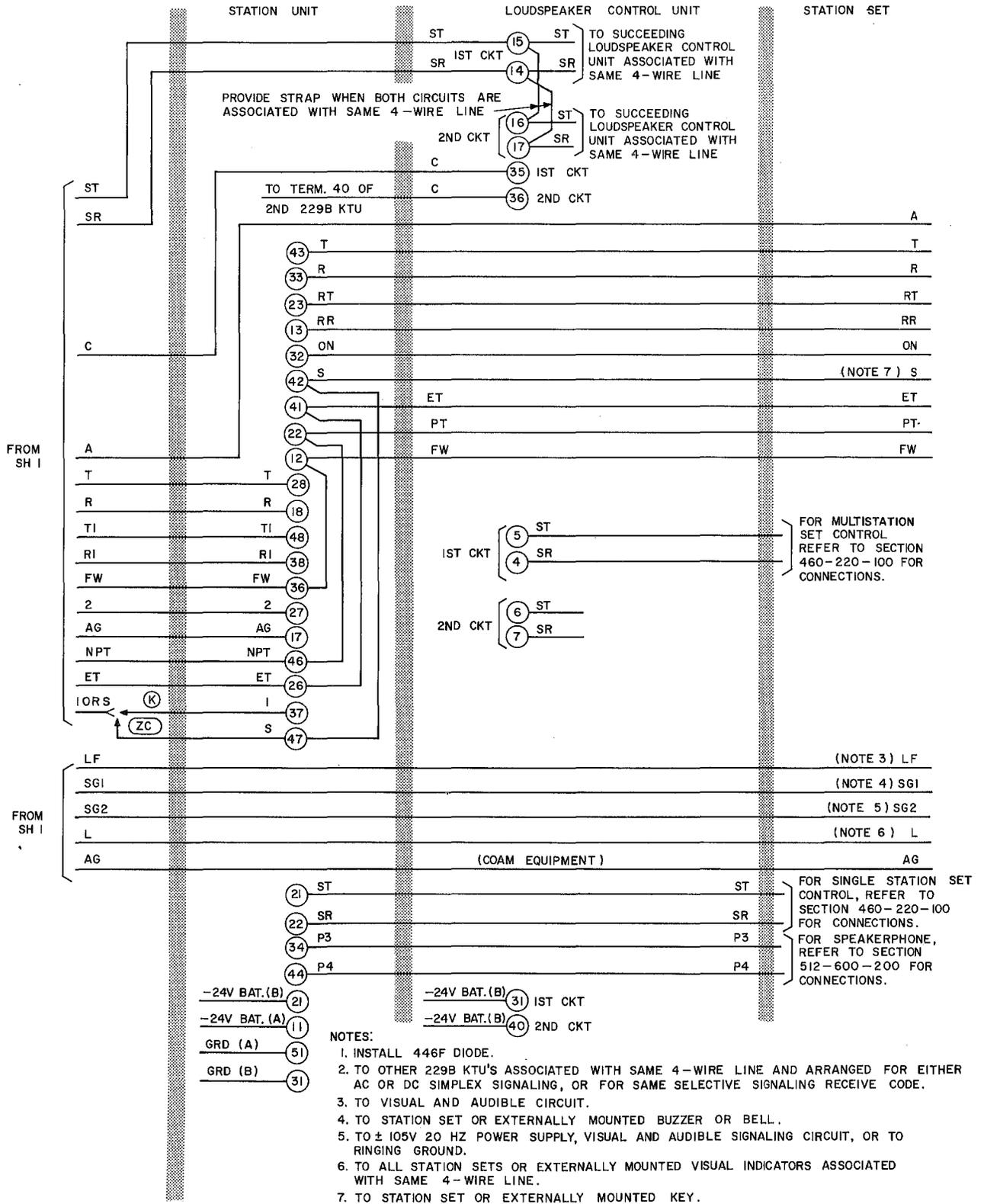


Fig. 1—Typical Connections for One Station Set, Using Simplex or Voice Signaling With Time-Out (Sheet 2)

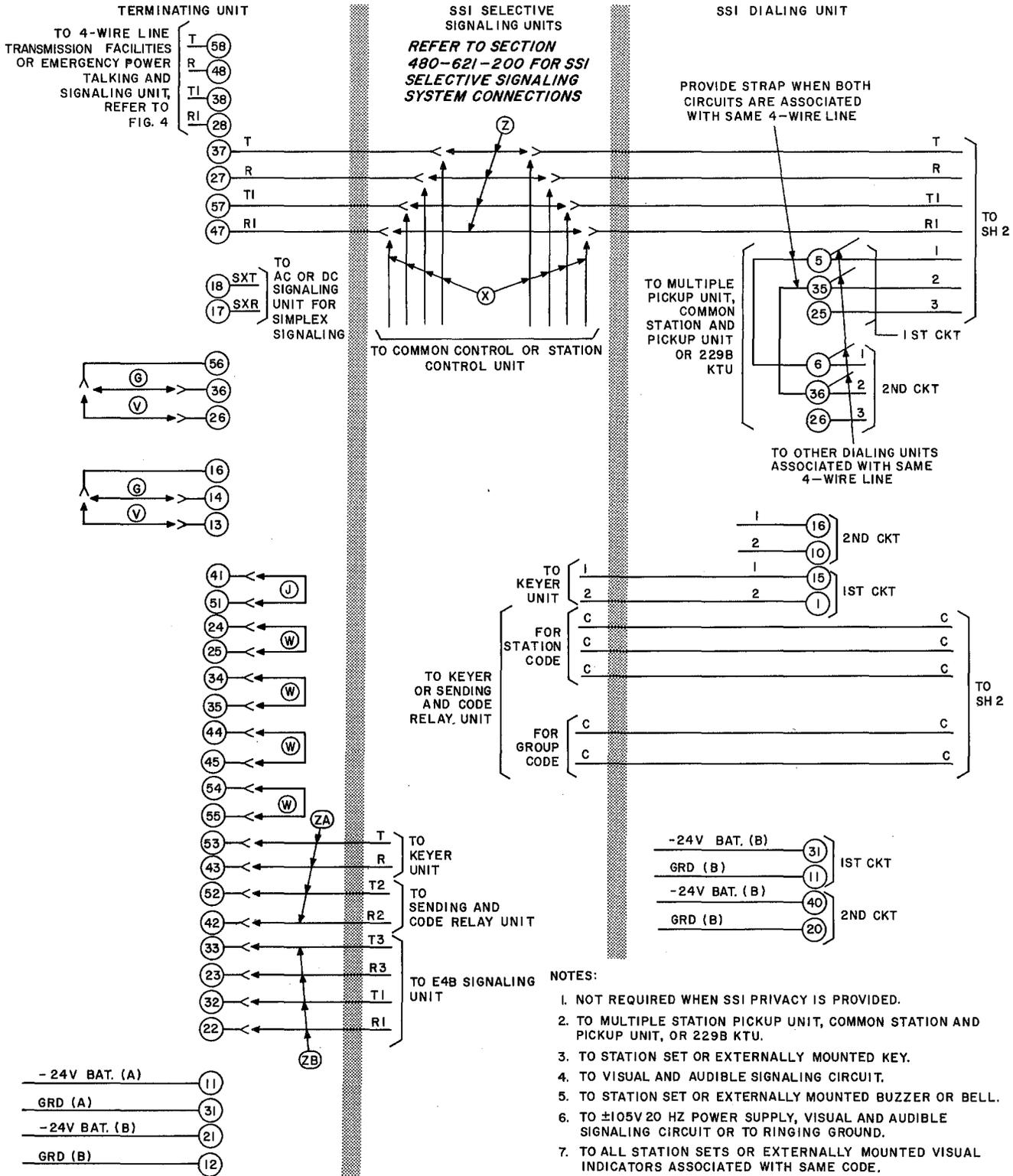


Fig. 2—Typical Connections for Two to Four Station Sets, Using SSI Selective Signaling (Sheet 1)

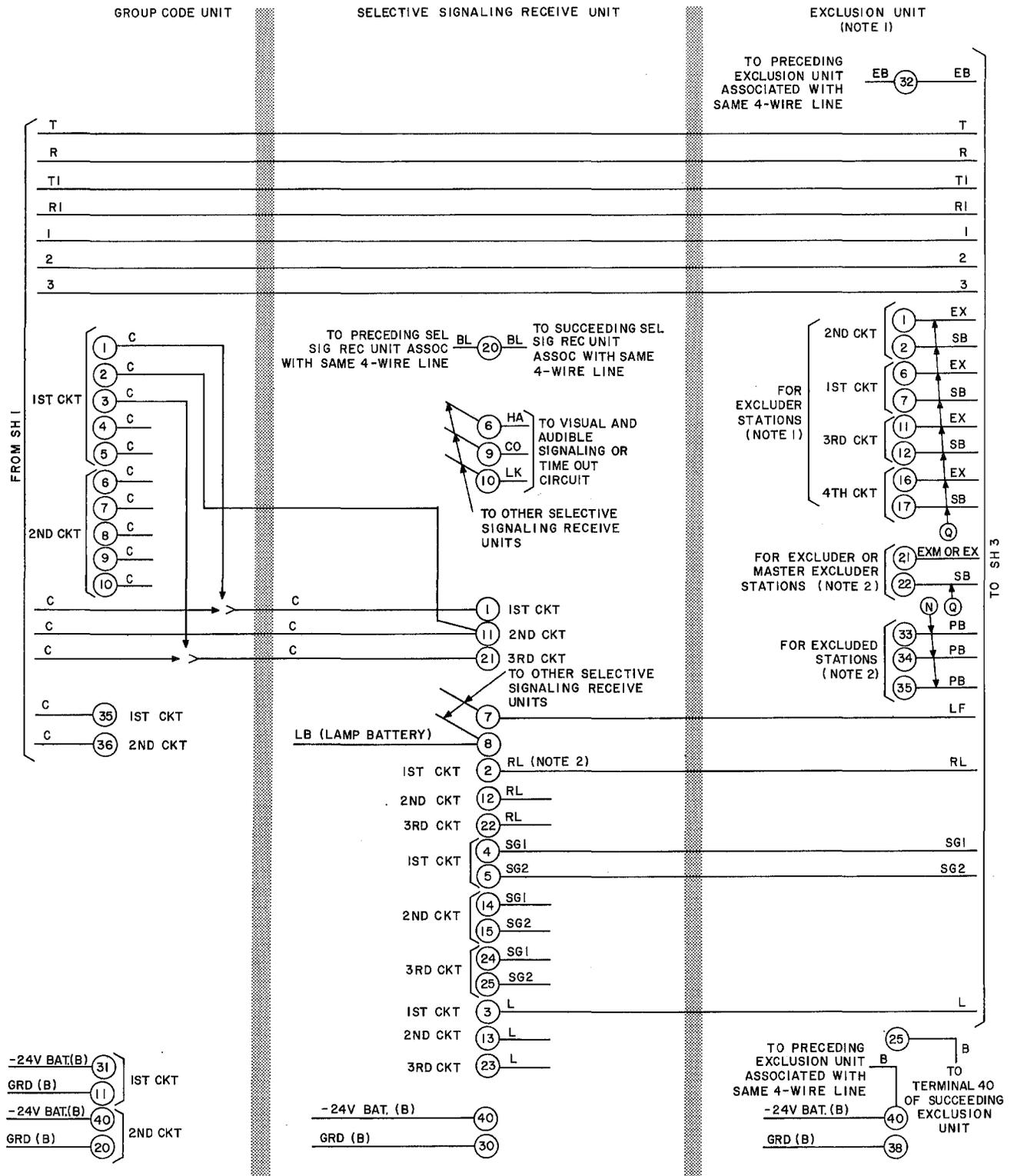


Fig. 2—Typical Connections for Two to Four Station Sets, Using SS1 Selective Signaling (Sheet 2)

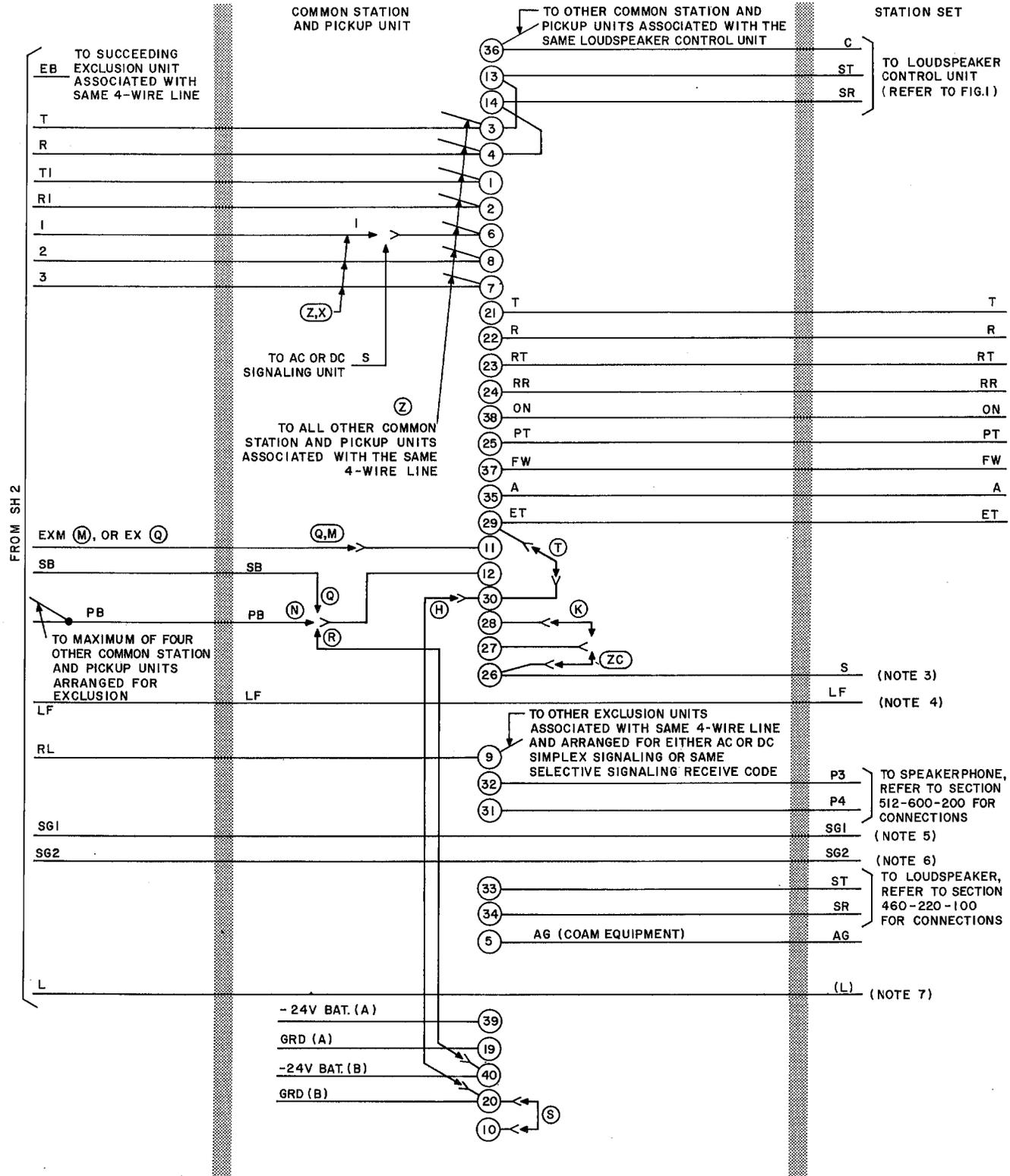


Fig. 2—Typical Connections for Two to Four Station Sets, Using SS1 Selective Signaling (Sheet 3)



MULTIPICKUP RELAY UNIT

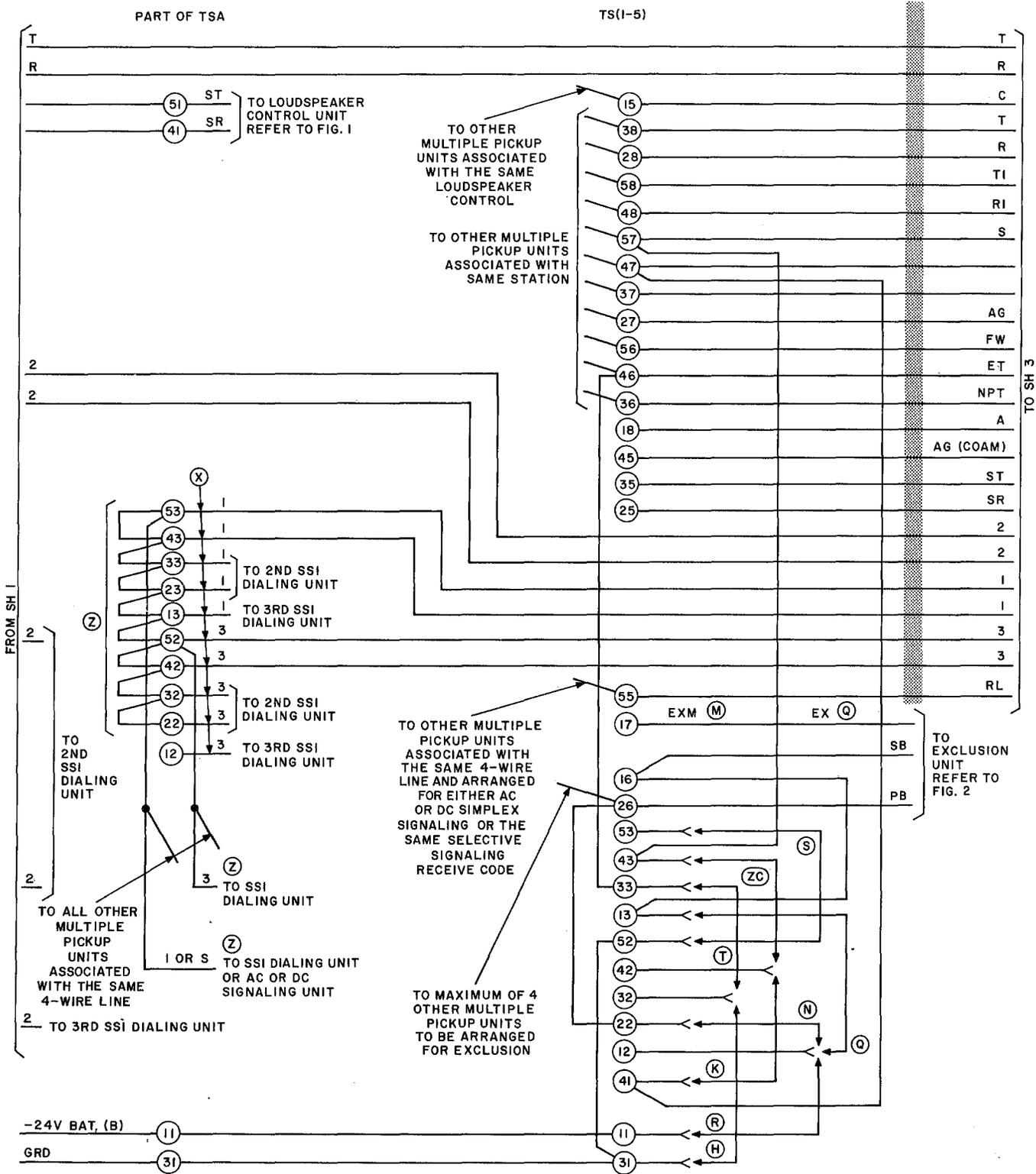


Fig. 3—Typical Connections for a 5-Line, 4-Wire Station Set, Using SSI Selective Signaling and Data Service (Sheet 2)



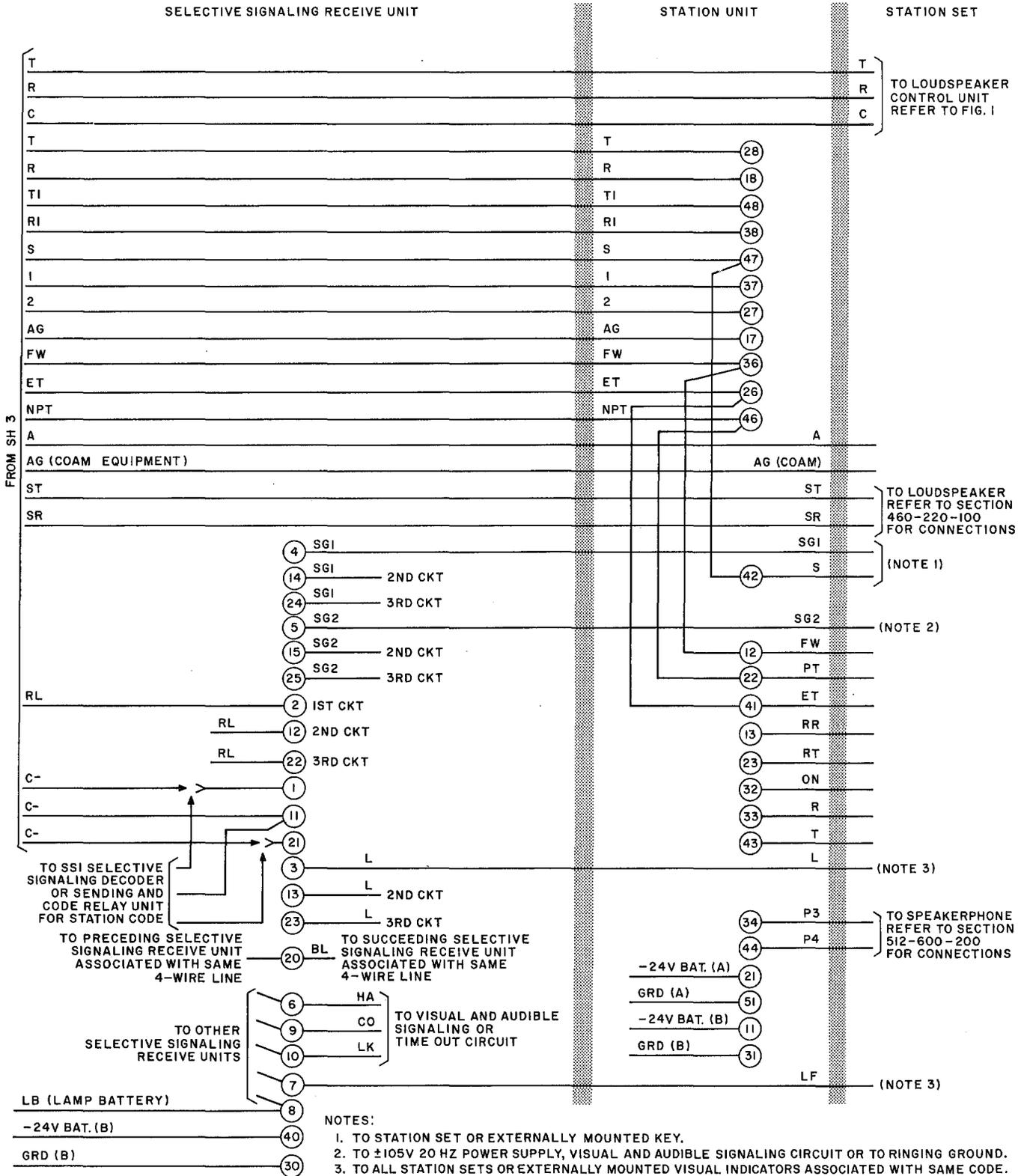
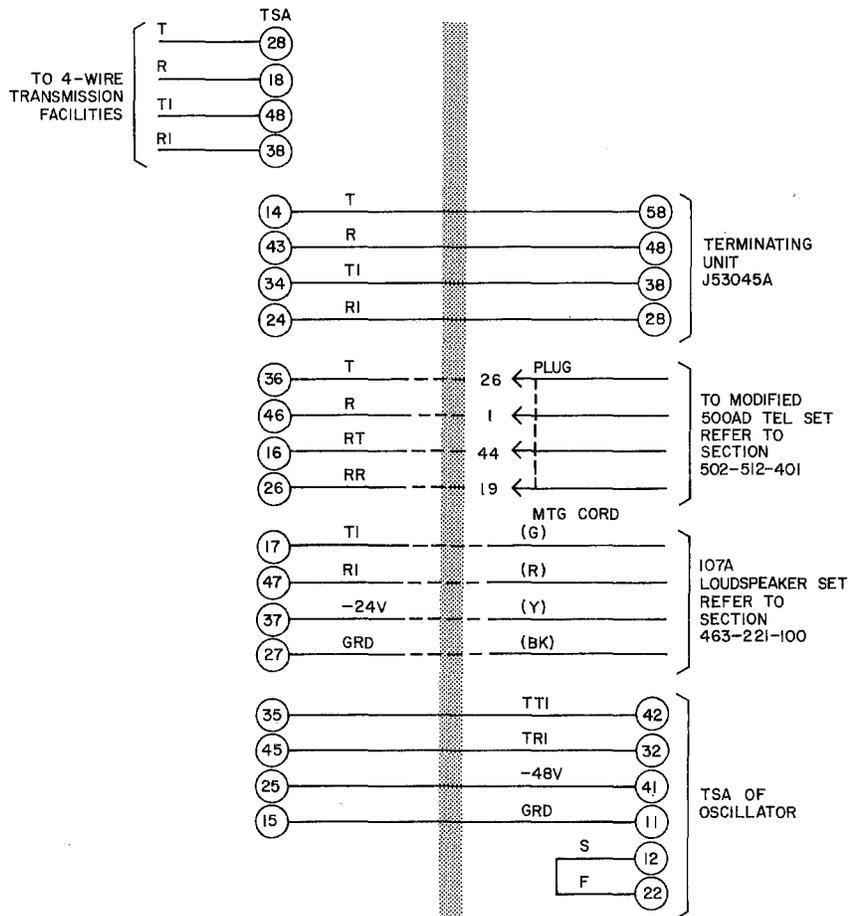
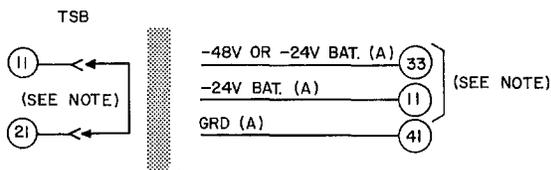


Fig. 3—Typical Connections for a 5-Line, 4-Wire Station Set, Using SS1 Selective Signaling and Data Service (Sheet 4)



CONNECTIONS FOR MODIFICATION OF 500AD TELEPHONE SET TO BE USED WITH POWER EMERGENCY TALKING AND SIGNALING UNIT



NOTE:  
 FOR -48V BATTERY, CONNECT TSA 33 TO BATTERY.  
 FOR -24V BATTERY, STRAP TSB 11 TO TSB 21 AND CONNECT BATTERY TO TSA 33, OR CONNECT -24V BATTERY TO TSA 11 WITHOUT STRAPPING TSB 11 TO TSB 21.

OPTION	FEATURE	WIRE OR LEAD	REMOVE FROM TERM.	CONNECT TO TERM.
PUSH-TO-TALK NOT REQUIRED (ZE)	G3AR HANDSET	(BK)	B	C
PUSH-TO-TALK REQUIRED (ZD)	G3AR HANDSET (REMOVE)	(W) (W) (R) (BK)	9 10 R B	
	G5KR HANDSET (REPLACE)	(W) (W) (R) (R) (BK) (BK)		9 10 R B B 7

Fig. 4—Emergency Power Talking and Signaling Unit, Connections Arranged for 4-Wire Private Line