TRUNK LOCATION ADDRESS INFORMATION

EXPANDED 5XB ROTL

1. GENERAL

1.04 This appendix supplements Section 010-410-312, Issue 1. It contains detailed trunk location address information for the expanded 5XB ROTL.

1.02 If this appendix is reissued, the reason for reissue will be listed in this paragraph.

1.03 There are a maximum of 12 variables in a trunk location address for accessing a trunk by CAROT via an expanded 5XB ROTL. These 12 variables can be divided into two groups. One group, *trunk group location address*, is determined by the properties of the trunk group to which the trunk belongs. The other group, *particular trunk location address*, is determined by the properties of the particular trunk. When the trunk location addresses of a trunk group are compiled for the CAROT data base, only one trunk group address is required for each operational mode of the trunk group.

1.04 The service type of trunk group (TYP) entered in character position 11 (H field, TMF worksheet) determines the information required for the trunk group location address and the particular trunk location address as shown in Fig. 1A. Once the value of TYP is determined, the variables contained in character positions 12 through 22 can be determined as explained in Parts 2 and 3 of this appendix.

1.05 There are seven service types relevant to the expanded 5XB ROTL. A trunk group may perform one, two, or three types of services, depending on the number of its operational modes. Thus, a trunk group or a particular trunk may require up to three trunk group or particular trunk location addresses, depending on the number of possible modes of operation. The trunk location address used in CAROT 1 should be based on the service type that reflects the primary traffic use of the trunk group. Testing in alternate modes should be deferred until availability of CAROT 2.

2. TRUNK GROUP LOCATION ADDRESS (Fig. 2A)

2.01 As shown in Fig. 1A, character positions 11 and 17 through 22 contain the trunk group location address variables. The flow diagram shown in Fig. 2A can be used for determining the values of the trunk group variables.

2.02 The procedure in Chart 1 can be followed when initially using the flow diagram of Fig. 2A to code trunk group information in the H field of the TMF worksheet.

CHART 1

STEP	PROCEDURE

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1   Determine the value of TYP in Ⓐ.

CHART 1 (Cont)

STEP	PROCEDURE

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2   Enter the value of TYP in character position 11.

3   Determine the value of MG in Ⓑ for the particular TYP.

4   Enter the value of MG in character position 18.

5   Depending on the value of TYP in Ⓐ , perform the applicable steps:

     (a) *For TYP 0 or 9:* Steps 6 through 12

     (b) *For TYPE 1, 7, or 8:* Steps 13 through 17

     (c) *For TYP 2 or 4:* Steps 18 through 21.

TYP 0 or 9

6   Determine the values of CTA, CU, CGR (see note), and CRU in Ⓒ.

Note: Marker leads CGA and CGB, if present, may be used for the grouping of classes of service or for rate treatment tens. The symbol CGR is not one of the trunk group variables, but its value can be recorded and used along with the FETL number to determine the value of CG in Step 9.

7   Enter the values of CTA, CU, and CRU in character positions 19, 20, and 21, respectively.

8   Identify and record the FETL number as shown in Ⓓ .

9   Examine the FETL number and use the value of CGR to determine the value of CG.

10   Enter the value of CG in character position 22.

11   Examine the FETL number to determine the value of TR in Ⓔ .

12   Enter the value of TR in character position 17.

TYP 1, 7, or 8

13   Determine the values of CG and CTA in Ⓒ (see note).

Note: Use SD- or CD-26002-01 (5XB Completing Marker Circuit), if necessary. The set of incoming trunk class leads (TAN, TAN 1, TAN 2, TAN 3, TAN 4, TOL, INC, PCR, PCD, and PCD 1) applies to both trunk class groups. They should not be confused with the set of relays under the TCA group which bears almost the same designations.

14   Enter the values of CTA and CG in character positions 19 and 22, respectively.

CHART 1 (Cont)

STEP	PROCEDURE

15   Identify and record the FETL number as shown in Ⓓ.

16   Examine the FETL number to determine the value of TR in Ⓔ.

17   Enter the value of TR in character position 17.

     TYPE 2 or 4

18   Enter 0 in character position 22, and 6 in character position 19 (see note).

     Note: For TYP 2 or 4, the class properties of the terminating call are associated with marker leads TCA and INC.

19   Identify and record the FETL or HOTL number as shown in Ⓓ.

20   Examine the HOTL or FETL number to determine the value of TR in Ⓔ.

21   Enter the value of TR in character position 17.

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3. PARTICULAR TRUNK LOCATION ADDRESS (FIG. 3A)

3.01 As shown in Fig. 1A, character positions 12 through 16 contain the particular trunk location address variables. The RA digit combines the number of route advances and allotter group information. While this is in many cases common to an entire trunk group, there are cases where individual trunks within a trunk group will be in different allotter groups and RA is therefore included here as a per-trunk variable.

3.02 The particular trunk information for trunks originating on the trunk link frame also consists of the trunk link frame number (FT, FU) and the busy test lead assignment on the TB relay (TT, TU). The busy test lead may be derived from the trunk link frame switch, appearance, and level for the early 160-point trunk link frames, Tables C and D of Section 010-410-312. In later 160-point link frames and 200-point frames the busy test is assignable and cross-connectable. The busy test lead should be given specifically on the traffic trunk orders along with allotter group, route advance, and trunk link frame number.

3.03 Using the flow diagram shown in Fig. 3A, one can determine the values of the particular trunk variables. The procedure in Chart 2 can be followed when initially using the flow diagram of Fig. 3A to code particular trunk information in the H field of the TMF worksheet.

CHART 2

STEP	PROCEDURE

1   Determine the value of TYP in Ⓐ or the TGD form (Fig. 25 of Section 010-410-312).

CHART 2 (Cont)

STEP	PROCEDURE

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2   Determine the value of RA in Ⓑ for the particular TYP. If TYP = 2 or 4, no information about allotter group or route advance is required.

3   Enter the value of RA in character position 12.

4   Determine the values of FT, FU, TT, and TU in Ⓒ for the particular TYP. If TYP = 4, no information about physical location is required. If TYP = 2, no information about FT is required.

5   Enter the values of FT, FU, TT, and TU in character positions 13, 14, 15, and 16, respectively.

A MESSAGE TRUNK GROUP ACCESSIBLE BY A LOCAL CUSTOMER (TYP=0) OR A CCSA TRUNK GROUP ACCESSIBLE BY A LOCAL CUSTOMER (TYP=9).

CHARACTER POSITION	11	12	13	14	15	16	17	18	19	20	21	22
TRUNK GROUP	TYP						TR	MG	CTA	CU	CRU	CG
PARTICULAR TRUNK		RA	FT	FU	TT	TU						

A MESSAGE TRUNK GROUP ACCESSIBLE BY AN INCOMING TANDEM TRUNK (TYP=8) OR
A CCSA TRUNK GROUP ACCESSIBLE BY AN INCOMING TANDEM TRUNK (TYP=7) OR
A MESSAGE TRUNK GROUP ACCESSIBLE BY AN INCOMING INTERTOLL TRUNK (TYP=1).

CHARACTER POSITION	11	12	13	14	15	16	17	18	19	20	21	22
TRUNK GROUP	TYP						TR	MG	CTA	X	X	CG
PARTICULAR TRUNK		RA	FT	FU	TT	TU						

A PBX TRUNK GROUP WITH LLP, ACCESSIBLE BY A TERMINATING CALL (TYP=2).

CHARACTER POSITION	11	12	13	14	15	16	17	18	19	20	21	22
TRUNK GROUP	TYP						TR	MG	CTA	X	X	CG
PARTICULAR TRUNK		X	X	FU	TT	TU						

A HOTL, ACCESSIBLE BY A TERMINATING CALL (TYP=4)

CHARACTER POSITION	11	12	13	14	15	16	17	18	19	20	21	22
TRUNK GROUP	TYP						TR	MG	CTA	X	X	CG
PARTICULAR TRUNK		X	X	X	X	X						

LEGEND:
X = BLANK

Fig. 1A—Trunk Location Address Information (H Field, TMF Worksheet)

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CLASS OF SERVICE MARKER LEADS

TENS		UNITS	
CTA 4, 7.	(CTA=0)	CU 4, 7.	(CU=0)
CTA 0, 1.	(CTA=1)	CU 0, 1.	(CU=1)
CTA 0, 2.	(CTA=2)	CU 0, 2.	(CU=2)
CTA 1, 2.	(CTA=3)	CU 1, 2.	(CU=3)
CTA 0, 4.	(CTA=4)	CU 0, 4.	(CU=4)
CTA 1, 4.	(CTA=5)	CU 1, 4.	(CU=5)
CTA 2, 4.	(CTA=6)	CU 2, 4.	(CU=6)
CTA 0, 7.	(CTA=7)	CU 0, 7.	(CU=7)
CTA 1, 7.	(CTA=8)	CU 1, 7.	(CU=8)
CTA 2, 7.	(CTA=9)	CU 2, 7.	(CU=9)

RATE TREATMENT CLASS MARKER LEADS

GROUP		UNITS	
CGA.	(CGR=0)	CRU 4, 7.	(CRU=0)
CGB.	(CGR=1)	CRU 0, 1.	(CRU=1)
NOT USED.	(CGR=0)	CRU 0, 2.	(CRU=2)
		CRU 1, 2.	(CRU=3)
		CRU 0, 4.	(CRU=4)
		CRU 1, 4.	(CRU=5)
		CRU 2, 4.	(CRU=6)
		CRU 0, 7.	(CRU=7)
		CRU 1, 7.	(CRU=8)
		CRU 2, 7.	(CRU=9)
		NOT USED.	(CRU=0)

TRUNK CLASS MARKER LEADS *

GROUP		CLASS	
TGA.	(CG=0)	TAN.	(CTA=0)
TCB.	(CG=1)	TAN 1.	(CTA=1)
		TAN 2.	(CTA=2)
		TAN 3.	(CTA=3)
		TAN 4.	(CTA=4)
		TOL.	(CTA=5)
		INC.	(CTA=6)
		PCR.	(CTA=7)
		PCD.	(CTA=8)
		PCD 1.	(CTA=9)

* THE SET OF INCOMING TRUNK CLASS LEADS (TAN, TAN. 1, TAN 2, TAN 3, TAN 4, TOL, INC, PCR, PCD, AND PCD 1) APPLIES TO BOTH TRUNK CLASS GROUPS TCA AND TCB. THEY SHOULD NOT BE CONFUSED WITH THE SET OF RELAYS UNDER THE TCA GROUP WHICH BEAR ALMOST THE SAME DESIGNATIONS.

B MARKER GROUP, ETC

MARKER GROUP 00; 2-WIRE; NONCOIN.	(MG=0)
MARKER GROUP 100; 2-WIRE; NONCOIN.	(MG=1)
MARKER GROUP 200; 2-WIRE; NONCOIN.	(MG=2)
MARKER GROUP 00; 2-WIRE; COIN.	(MG=4)
MARKER GROUP 100; 2-WIRE; COIN.	(MG=5)
MARKER GROUP 200; 2-WIRE; COIN.	(MG=6)

MARKER GROUP 00; 2-WIRE; NONCOIN.	(MG=0)
MARKER GROUP 100; 2-WIRE; NONCOIN.	(MG=1)
MARKER GROUP 200; 2-WIRE; NONCOIN.	(MG=2)
MARKER GROUP 00; 4-WIRE; NONCOIN.	(MG=7)
MARKER GROUP 100; 4-WIRE; NONCOIN.	(MG=8)
MARKER GROUP 200; 4-WIRE; NONCOIN.	(MG=9)

TYP=0
TYP=8
TYP=1
TYP=9
TYP=7
TYP=2
TYP=4

D TEST LINE DIALING NUMBER

FAR END TEST LINE DIALING NUMBER

FOREIGN AREA CODE NOT USED; CGR=0.	(CG=2)
FOREIGN AREA CODE NOT USED; CGR=1.	(CG=3)
FOREIGN AREA CODE USED; CGR=0.	(CG=4)
FOREIGN AREA CODE USED; CGR=1.	(CG=5)

→ FAR-END TEST LINE DIALING NUMBER

→ HOME OFFICE TEST LINE DIALING NUMBER

A SERVICE TYPE

MESSAGE, LOCAL ACCESSIBLE.	(TYP=0)
MESSAGE, TANDEM ACCESSIBLE.	(TYP=8)
MESSAGE, TOLL ACCESSIBLE.	(TYP=1)
CCSA, LOCAL ACCESSIBLE.	(TYP=9)
CCSA, TANDEM ACCESSIBLE.	(TYP=7)
PBX, WITH LLP.	(TYP=2)
HOME OFFICE TEST LINE.	(TYP=4)

LOCAL TRANSLATOR, NO PREFIX.	(TR=0)
LOCAL TRANSLATOR, PREFIX 1.	(TR=1)
LOCAL TRANSLATOR, PREFIX 0.	(TR=2)
LOCAL TRANSLATOR, PREFIX 8.	(TR=3)
2-DIGIT TRANSLATOR.	(TR=4)
XII TRANSLATOR.	(TR=5)
5-DIGIT TRANSLATOR.	(TR=9)

LOCAL TRANSLATOR, NO PREFIX.	(TR=0)
TOLL TRANSLATOR.	(TR=8)
5-DIGIT TRANSLATOR.	(TR=9)

E MARKER TRANSLATION

OFFICE A.	(TR=6)
OFFICE B.	(TR=7)
5-DIGIT TRANSLATOR.	(TR=9)
LOCAL TRANSLATOR, NO PREFIX.	(TR=0)
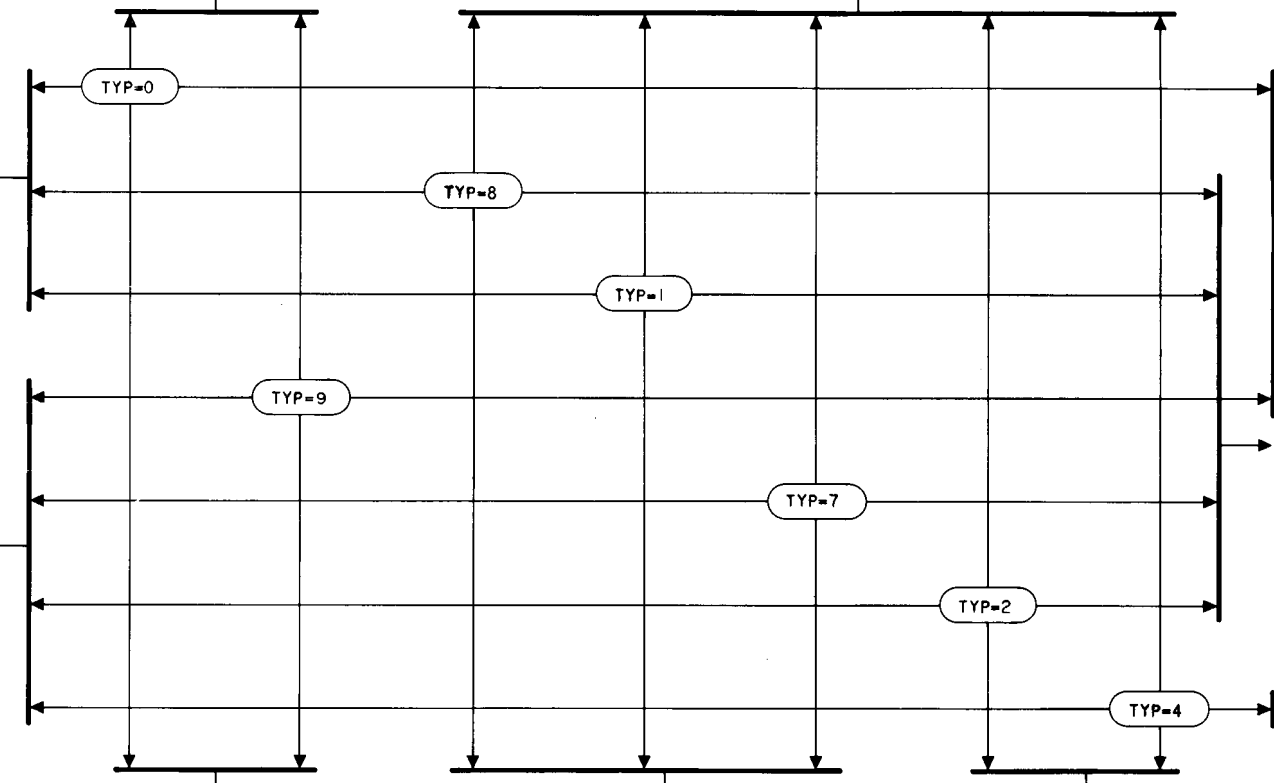
Fig. 2A—Flow Diagram for Use in Determining Trunk Group Variables

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TRUNK LINK FRAME		BUSY TEST LEAD		LINE LINE	NUMBER GROUP FRAME	
TENS	UNITS	TENS	UNITS	HOLD MAGNET	HUNDREDS BLK	TENS BLK
0. (FT = 0)	0. (FU = 0)	0. (TT = 0)	0. (TU = 0)	0. (FU = 0)	0. (TT = 0)	0. (TU = 0)
1. (FT = 1)	1. (FU = 1)	1. (TT = 1)	1. (TU = 1)	1. (FU = 1)	1. (TT = 1)	1. (TU = 1)
2. (FT = 2)	2. (FU = 2)		2. (TU = 2)	2. (FU = 2)	2. (TT = 2)	2. (TU = 2)
	3. (FU = 3)		3. (TU = 3)	3. (FU = 3)	3. (TT = 3)	3. (TU = 3)
	4. (FU = 4)		4. (TU = 4)	4. (FU = 4)	4. (TT = 4)	4. (TU = 4)
	5. (FU = 5)		5. (TU = 5)	5. (FU = 5)	5. (TT = 5)	5. (TU = 5)
	6. (FU = 6)		6. (TU = 6)	6. (FU = 6)	6. (TT = 6)	6. (TU = 6)
	7. (FU = 7)		7. (TU = 7)	7. (FU = 7)	7. (TT = 7)	7. (TU = 7)
	8. (FU = 8)		8. (TU = 8)	8. (FU = 8)	8. (TT = 8)	8. (TU = 8)
	9. (FU = 9)		9. (TU = 9)	9. (FU = 9)	9. (TT = 9)	9. (TU = 9)

INFORMATION ON PHYSICAL LOCATION IS NOT REQUIRED

TYP=0

® **ROUTE ADVANCE ; ALLOTTER GROUP**

0 ROUTE ADVANCE; ALLOTTER GROUP A. � (RA=0)
1 ROUTE ADVANCE; ALLOTTER GROUP A. � (RA=1)
2 ROUTE ADVANCES; ALLOTTER GROUP A.� (RA=2)
3 ROUTE ADVANCES; ALLOTTER GROUP A.� (RA=3)
0 ROUTE ADVANCE; ALLOTTER GROUP B. (RA=5)
1 ROUTE ADVANCE; ALLOTTER GROUP B. (RA=6)
2 ROUTE ADVANCES; ALLOTTER GROUP B. (RA=7)
3 ROUTE ADVANCES; ALLOTTER GROUP B. (RA=8)

� - OR ALLOTTER GROUP NOT USED

TYP=8

TYP=1

TYP=9

TYP=7

TYP=2

NO INFORMATION ABOUT RA IS REQUIRED

TYP=4

Ⓐ **SERVICE TYPE**

MESSAGE, LOCAL ACCESSIBLE. (TYP=0)
MESSAGE, TANDEM ACCESSIBLE. (TYP=8)
MESSAGE, TOLL ACCESSIBLE. (TYP=1)
CSSA, LOCAL ACCESSIBLE. (TYP=9)
CSSA, TANDEM ACCESSIBLE. (TYP=7)
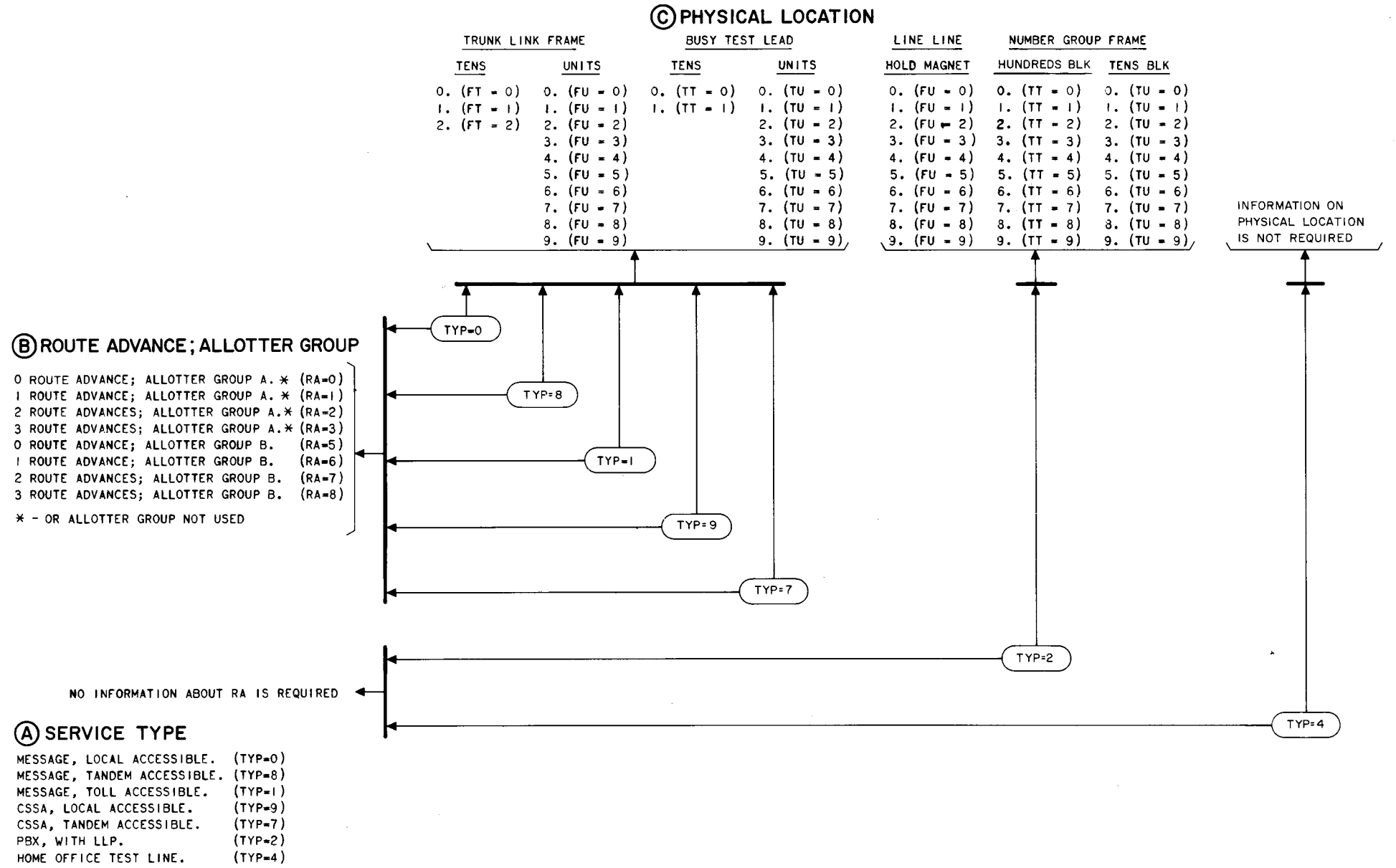PBX, WITH LLP. (TYP=2)
HOME OFFICE TEST LINE. (TYP=4)

Fig. 3A—Flow Diagram for Use in Determining Particular Trunk Variables