

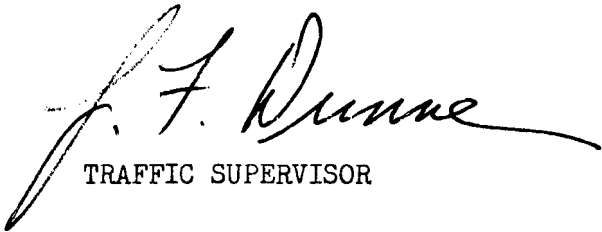
Washington, D. C., October 5, 1970

MEMORANDUM TO: Autovon Staffs

Attached is a copy of the Autovon Routing Guide (Orange Book) for the 4-4-71 cutover.

This is a completely new Routing Guide. The format is changed, so please read the Table of Contents to become familiar with the book.

Refer any questions to Jane Morgan, 202-466-3249.


TRAFFIC SUPERVISOR

JM:ep

Attachment

(1)

ROUTING GUIDE DATED: 4-4-71ISSUE DATE: 9-21-70

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15	0	A6	0	15	0
16	0	A7	0	16	0
17	0	A8	0	17	0
18	0	A9	0	18	0
19	0	A10	0		
20	0	A11	0		
21	0	A12	0		
22	0	A13	0		
23	0	A14	0		
24	0	A15	0		
25	0	B1	0		
26	0	B2	0		
27	0	B3	0		
28	0	B4	0		
		B5	0		
		B6	0		
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AUTOVON ROUTING GUIDE

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PREFACE

The Autovon Network consists of 4W#5 machines, ESS machines, and AE machines. A list of the machines appears on pages 2 and 3.

Autovon intermachine trunks are commonly used by all the Autovon and Norad/Sage commands which comprise the Autovon Network. The Autovon Network will operate on the Polygrid Routing Concept.

General Autovon and Norad/Sage access lines and lunks are separated by class marks and codes so that General Autovon can only communicate with General Autovon, and Norad/Sage only with Norad/Sage.

4W#5 Machines

Standard Abbreviation

Arlington, Virginia	ARL
Colorado Springs, Colorado	COL
Ennis, Texas	ENN
Hillsboro, Missouri	HIL
Monrovia, Maryland	MON
Norway, Illinois	NOR
Rockdale, Georgia	ROC
Santa Rosa, California	SRA
Yakima, Washington	YAK

4E Machines

Delta, Utah	DEL
Fairview, Kansas	FWV
Glendive, Montana	GLE
Haney, British Columbia, Canada	HAN
Lethbridge, Alberta, Canada	LET
North Bend, Washington	NEW
Parma, Michigan	PAR
Polk City, Florida	POL
Portage, Manitoba, Canada	POR
Regina, Saskatchewan, Canada	REG
Roscommon, Michigan	RSC
Sudbury, Ontario, Canada	SUD
Terre Haute, Indiana	TER
Toledo Jct., Ohio	TOL
Topaz Lake, Nevada	TOP
Wheatland, North Dakota	WHN

ESS Machines

Standard Abbreviation

Apache Junction, Arizona	APA
Boone, Iowa	BNE
Brewton, Alabama	BRE
C. M. C., Colorado	CMC
Cedar Brook, New Jersey	CED
Charlottesville, Virginia	CHV
Chatham, North Carolina	CHA
Cheshire, Connecticut	CSE
Chesterfield, Massachusetts	CHE
Dover-Foxcroft, Maine	DOV
Dranesville, Virginia	DRA
Ellisville, Florida	ELL
Fairacres, New Mexico	FAI
Fredericton, New Brunswick, Canada	FRE
Hagerstown, Maryland	HAG
Helena, Montana	HEL
Iron Mountain, Michigan	IRO
Jasper, Alabama	JAS
Julian, California	JUL
Lamar, Colorado	LAM
Leesburg, Virginia	LEE
Littleton, Massachusetts	LIT
Lodi, California	LOD
Lyons, Nebraska	LYO
Medford, Oregon	MED
Memphis Junction, Arkansas	MEM
Mojave, California	MOJ
Moseley, Virginia	MOS
Mounds, Oklahoma	MOU
Netcong, New Jersey	NTG
Pickens, Mississippi	PIC
Pottstown, Pennsylvania	POT
San Luis Obispo, California	SLO
Seguin, Texas	SEG
Sherbrooke, Quebec, Canada	SHE
Smith Falls, Ontario, Canada	SMF
Socorro, New Mexico	SOC
Stanfield, North Carolina	STN
Stevens Point, Wisconsin	STV
Sweetwater, Texas	SWE
Thunder Bay, Ontario, Canada	TBY
Tully, New York	TLY
Turquoise, California	TUR
Williamstown, Kentucky	WIL
Wyoming, Minnesota	WYO

POLYGRID ROUTING

1. General

1.1 The Polygrid network is composed of a continuum of grids of inter-connected switching centers, each serving a particular center for inbound and outbound traffic. All switching centers have equal rank in the Polygrid network. They are so connected that a large percentage of all switching centers must be destroyed before the network is disrupted. Thus the Polygrid switching network is ultra-survivable.

1.2 Establishing the Polygrid routing plan required two separate operations. The first, to select the alternate routing choices (in order of desirability) from each office in the network to every destination, based upon the geographical location of the switching centers and the intermachine trunking pattern established for the network. The second, to determine a control procedure for limiting the number of route choices available to a call as it progresses through the network. This is accomplished by the use of a route control digit which is transmitted from each switch, along with the destination code and other pertinent information. The reason for imposing limitations on the route choices available to calls are:

1.21 To promote efficient utilization of trunk groups and prevent looping conditions - "Ring-Around-the-rosy" and "shuttling."

1.22 To limit the number of links in tandem required for call completion - a transmission consideration.

1.3 The polygrid switching network consists of two networks, one superimposed on the other. First, there is a basic network which follows a geometrical pattern and furnishes short and medium haul capabilities. Second, to minimize the number of links on long haul calls, a long haul network is superimposed on the basic network.

1.4 The basic network is the home grid. The long haul network is the exterior grid.

1.5 Therefore, the polygrid routing plan is composed of two distinct types of routing arrangements, Home grid and Exterior grid. In addition, a third and distinct type of routing arrangement is used in the serving switching centers of a dual-homed combination -- which is called Home Operation in the 4W#5 and Linked Route Index technique in the ESS machines.

1.51 A home grid or interior operation is used to route to a destination by offices within the destination's home grid.

1.52 Exterior operation is used by offices not within the home grid of a particular destination.

1.53 Home operation and/or Linked Route Index technique is used for dual-homed routing by the two serving offices of the dual-homed combination.

2. Network Structure

2.1 Most centers will have direct trunk groups available to the six adjacent centers. Additional trunk groups available to the next closest surrounding centers will thus provide a basic grid configuration called the "Home Grid," as shown in Figure 2. The number of centers in this grid is variable in accordance with the number of access routes available. Likewise, the "Home Grid" for any other center will have its own set of switching centers constituting a grid array. The pattern, however, will be identical for all switching centers except for peripherally located centers which will have less than a full pattern.

2.2 Applying this network concept on a geographical basis for CONUS develops a polygrid network such as that shown in Figure 1. The structure of the final network is not yet completed.

2.3 A computer program is used in determining a system of long haul trunks which are required to reach points beyond the range of the basic network and to prevent excessive links in tandem. The basis network which is shown in Figure 1 does not reflect long haul trunk groups. The use of a computer program for long haul trunks distributes long haul trunk groups based upon calling loads thereby providing trunk groups where they can carry traffic most efficiently.

2.4 The network will be sufficiently balanced to enable any section of it to take on alternately routed loads occasioned either by unusual concentration of activity in suddenly-created communications

focal points or by sudden loss of facilities or switching centers.

The alternate routing capabilities of the network will enable automatic skirting of interrupted or overloaded trunk groups; however, this will be successful only if the trunk groups have been brought into some kind of balance with regard to the traffic loads of absolutely vital communications.

3. Routing Procedures

3.1 There will be ten possible trunk routes which can be programmed for each destination at a center exterior to the destination switching center home grid. One would be a single trunk group direct to the destination center. In many cases there will not be a direct trunk group and this stage of routing will be omitted in the testing sequence. Following the direct trunk group will be three alternate trunk group "triples." The first will be called the most direct triple and normally represents a set of three forward routes. The second group will be called the best alternate triple, and the third will be designated the second best alternate triple. Both the best and the second best alternate triples normally represent lateral routes.

3.2 There will be seven possible trunk routes which can be programmed for each destination within the home grid. One will be a direct trunk group which will be followed by two alternate trunk group "triples," called the best alternate triple and the second best alternate triple.

4. Route Control Principles

4.1 For exterior grid routing, it is necessary to make a distinction between forward and lateral routing in establishing the principles of route control (Figure 3). Forward routing may be defined as advancing a call to a switching center which is geographically nearer the destination. It is required that a predetermined distance to the destination be achieved on the first link, if the corresponding outlet is exterior to the Home Grid and is to be considered a forward route. Further, to meet the definition for forward routing, there must be no traffic programmed for that destination in the reverse direction over the trunk group in question. Lateral routing may be defined as routing a call to a switching center so as not to advance the call geographically by the factor required for forward routing. In this case there may be traffic for the same destination programmed in the reverse direction of the trunk group in question. Lateral routing has to be distinguished from forward routing for the same destination to prevent "shuttle" and "ring-around-the-rosy".

4.2 It is necessary, also, to establish a rule that a call arriving at, or originating in, a home grid does not leave the home grid in further routing. From this rule it can be seen that a call which enters a home grid from a switching center exterior to the home grid has employed forward routing and will not be programmed with reverse traffic.

5. Route Control Digits

5.1 Route Control in the Polygrid network will depend on the use of a Route Control Digit. This is a decimal digit designated RC,

within the assigned Numbering Plan, which immediately precedes the address digits transmitted over intertoll trunks (CCT (Precedence) + CCU (Routing) + RC (Route Control Digit) + 7 or 10 digits). The Route Control Digit will:

5.11 Exercise control over alternate routing at the switching center.

5.12 Prevent "shuttling" and "ring-around-the-rosy".

5.13 Assist in limiting the number of intertoll trunk links which may be used on a call.

5.2 The Route Control Digits functions for Home Grid and Exterior Grid, routine and precedence level calls are shown on Figures 5 and 6.

5.3 The meaning of the Route Control Digits which apply to the routing pattern Exterior to the Home Grid is:

5.31 RC-0 Use all programmed routes.

5.32 RC-1 Use direct route plus most direct triple plus best alternate triple.

5.33 RC-2 Use direct route plus most direct triple plus second best alternate triple.

5.34 RC-3 Use direct route plus most direct triple.

5.4 The application of a set of ten routes is shown in Figure 3. This figure shows the routing pattern employed on a call originating at Faulkner and destined for Ennis. The direct trunk group would be the first choice for all calls as the best possible route. Of the three triples shown, the two labeled "most direct triple" (MDT) and the "best alternate triple" (BAT) are preferred ahead of the other triple because these triples represent forward routes which advance the call

to switching centers which are substantially nearer the destination center than the originating center. The second best alternate triple (SBAT) shown in this figure is a lateral route which does not advance the call but which is important for survivability in that it would be automatically available to circumvent damaged or overloaded sections of the network.

5.5 The meaning of the Route Control Digits which apply to the Home Grid Routing Pattern is:

- 5.51 RC-0 Use all programmed routes.
- 5.52 RC-1 Use direct route plus best alternate triple.
- 5.53 RC-2 Use direct route plus second best alternate triple.
- 5.54 RC-3 Use direct route only.

5.6 Home Grid Routing capabilities are programmable over as many as seven trunk routes. This would include a direct route, best alternate triple (BAT), and second best alternate triple (SBAT). A rule is established that a call arriving at, or originating in, a Home Grid does not leave the Home Grid in further routing.

5.7 The principles of Route Control Digit Assignment to be sent to the succeeding switching center are:

- 5.71 Originating call equates with RC-0.
- 5.72 RC-0 is always used on forward routes (no reverse traffic may be programmed on these routes).
- 5.73 RC-1, RC-2, or RC-3 must be used on lateral routes (reverse traffic may be programmed on these routes).
- 5.74 RC-1 and RC-2 are used on first lateral route, RC-3 on second or only lateral route.

6. Route Control of a Call

6.1 Route Control on Precedence (P-0 to P-3) Calls - The application of the Route Control principles will now be considered on a typical call.

6.11 A precedence call which is originated in an exterior office has ten trunk groups available to it. The search pattern for these ten groups is divided into two stages. These are called the idle search and the pre-empt search. The idle search is restricted to the direct group to the destination center and to the most direct triple, which is a set of three forward routes. Selection of any of these routes advances the call; preference of the direct trunk group efficiently utilizes the network resources. The three trunk groups in the most direct triple are not necessarily equal in efficiency of routing, but for precedence traffic it is considered wise for maximum survivability to rotate the preference among the three trunk groups. The idle search is not extended into the alternate triples because these trunk groups represent round-about routings with additional links used to set up connections. The effect of using these in the idle search during heavy load periods would be to diminish the network's capability for total calls completed because of the larger number of links per connection required. A further effect would be to aggravate the

need for pre-emption to complete precedence calls.

Efficiency of network use is attained by limiting the idle search to the Most Direct Triple.

6.12 There are two alternatives in the selection of trunk groups for precedence calls: In the first alternative, a call failing to find an idle trunk in the direct route, and in the most direct triple, will enter the pre-empt search. In this search the trunk groups are tested, one by one, to see, first, if there are any idle trunks in the group, and if so, to select one of these, and secondly, if there are no idle trunks, to see if there are any calls in the trunk group at the P-4 level and if so, to select one for pre-emption. This process continues for succeeding levels of trunk occupancy until the level immediately below the level of the precedence call has been tested. Failing at this level, the pre-empt search will advance to the next trunk group in order, and so on until all ten trunk groups have been tested for all valid search levels. Complete failure will result in a pre-empt no circuit announcement.

6.121 In the second alternative; a call failing to find an idle trunk in the most direct route will immediately enter the pre-empt search and continue as described above.

6.13 At the originating office, consider the route control digit that would be sent to the next switching center under various routings. First, a direct trunk group to the

destination switching center would have been selected, and the route control digit outputted would have been "0". This digit value would have no function at the destination switching center other than to fill in the digit register for uniformity of operation on terminating and through calls. If one of the trunk groups of the most direct triple is selected, route control digit "0" would be outputted because it is a forward route and there is no reason why the switching center should not use all programmed routes. If a trunk group in either the Best or Second Best alternate triple is selected, the route control digit must be appropriate for either forward routing or the first stage of lateral routing, whichever the case may be. For the first stage of lateral routing a route control digit of RC-1 or RC-2 should be used. RC-1 will always be preferred to RC-2 because it will tell the next switching center to use its best alternate triple if the most direct trunk groups do not provide an available trunk on both searches. However, RC-1 cannot be used if an examination of the routing program at the next switching center shows a trunk group to the office where the call is now in its best alternate triple. If this were the case, RC-2 would have to be sent to prevent shuttling of the call.

6.14 Only two successive lateral routes are permissible, and this is accomplished by outputting RC-3 on the second

lateral route. After receipt of RC-3, a call can move forward only over the direct route or the most direct triple, and RC-0 is sent on this forward route. Once the call is advanced, two more laterals can be employed at this new switching stage.

6.15 The object on all forward routes will be to get to or toward the Home Grid or, better still, to the destination center if a direct trunk is available. A call arriving at the Home Grid will be accompanied with RC-0 which permits the use of all programmed routes and the use of two lateral routes in the Home Grid.

6.2 Route Control on Routine (P-4) Calls

6.21 Routine traffic may represent a very large share of the total traffic offered to the Polygrid network. It is most desirable to set up connections on a minimum link basis. For this reason alternate routing of P-4 traffic will, in general, be limited to forward routing. An exception to this will be in the Home Grid where the principle will be compromised to permit one lateral route so that the inherent advantages of alternate routing on a modest scale can be used to offset the effects of adding a link to the connection on a small percentage of calls. Routine traffic will employ a fixed order of search among the trunk groups of the Best Alternate Triple (Home Grid) and the Most Direct Triple (Exterior Grid). One of the three trunk groups in the most direct triple will advance the call farther

than the other two trunks, and so for this reason, its preference in a fixed order on a large proportion of calls will result in more efficient network utilization. Use of a fixed order of preference will allow a greater number of calls to be handled by the network at any given time.

6.22 The limitation of P-4 mentioned above, which will permit one lateral route in the Home Grid, will be accomplished by diverting P-4 traffic to an all trunk busy tone if RC-1 or RC-2 has been received (as a result of a previous lateral route) and the direct trunk group is busy.

7. Dual Homed PBX's with Single Addresses

7.1 A critical rule for dual homing of PBX's which will be reached by the use of single addresses is that the pair of switching centers serving the dual homed PBX must be directly interconnected by a trunk group.

7.2 Classification of centers relative to a dual homed PBX
Figure 4 illustrates a dual homing arrangement for a PBX with a single address. The two centers serving such a PBX are designated D1 and D2. D1 and D2 are interconnected according to the rule stated above. Each of these destination centers has a home grid determined by the basic network geometry and home grid principles discussed earlier. Centers in the home grid for D1 are designated G1. Centers in the home grid for D2 are designated G2. Those which

are in both home grids are designated G12. All other centers will be biased uniformly in their routing to the dual homed PBX by using the routing program for either D1 or D2. The bias of the dual homed routings of exterior centers toward one of the two destination centers results in efficient use of routing programs.

7.3 Routing principles for dual homed PBX's - forward routing toward a dual homed PBX is always used to reach any of the home grid centers G1, G2, or G12. Further, routing from any of these three classifications of home grid centers to the D1 or D2 destination centers is defined as forward routing. In both instances of forward routing RC-0 is sent ahead. Routing from G1 or G2 centers is conventional home grid lateral routing which follows the principles discussed previously.

7.31 The G12 centers (Figure 4) employ a special exterior grid routing pattern as shown in Section 7, pages A13 and B6. This pattern restricts lateral routings to other G12 offices. Lateral routings to G1 and G2 centers are regarded as backward routings in the context of dual homed PBX programming. The reason for this is that a call reaching a G12 center has direct trunking to both serving D1 and D2. In contrast to this, the G1 and G2 centers have direct trunking to only one of the two serving centers. Other backward routings not permitted are routings from G1, G2 and G12 centers to exterior centers and routings from D1 and D2 centers to G1, G2, and G12 centers. Further, the arrangement is to employ normal home grid programming in centers G1 and G2 with calls to the dual

homed locations being handled in these centers as though they were single homed in the respective D1 or D2 destination centers. This conserves routing programs in the ~~4W#5~~ machines.

8. Network Programming Principles

8.1 It is obvious that the constraints and rules covered in the previous sections must be observed because of the complex interrelationship of the various components of a network and routing control plan. Deviations from the rules are sometimes possible but may lead to undesirable complications.

8.2 Each destination will have to be programmed, throughout the network, separately from all other destinations. This will apply to both single homed destinations and dual homed destinations with single addresses. It will first be necessary to establish home grids for all destinations. This will also determine G12 centers for all dual homed destinations. Having established the home grid for a particular destination, the home grid routing patterns and route control digit assignments can be made. The same principle used in exterior lateral routing will be employed for home grid lateral routing. This means that RC-1 should be sent ahead on a first lateral route in all cases except where it would cause the call to shuttle back to the same center on the next lateral routing.

8.3 After programming the routings of one destination completely, other destinations are programmed one by one until all destinations have been programmed for all centers.

CONFIGURATION OF BASIC NETWORK

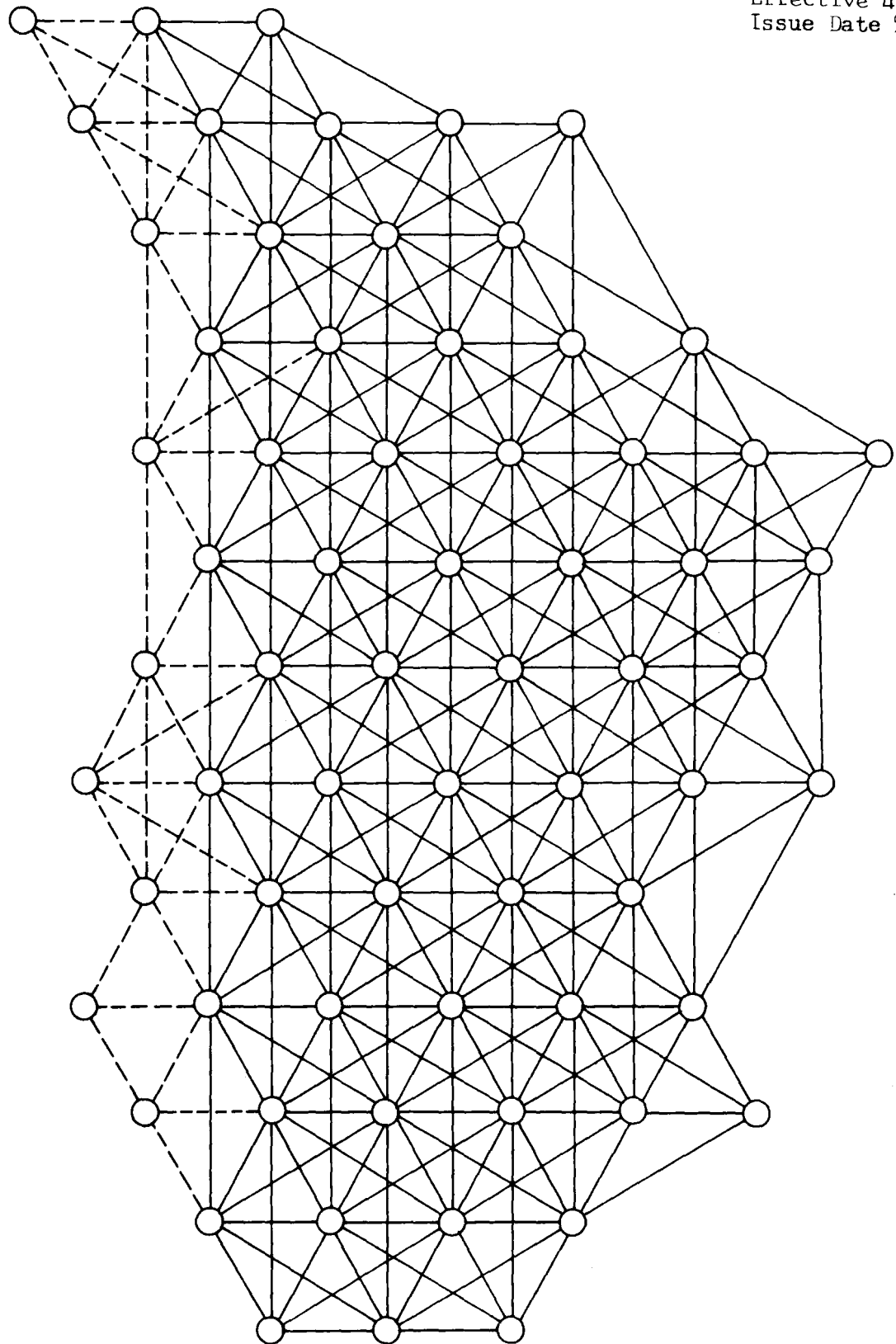


FIGURE 1

HOME GRID

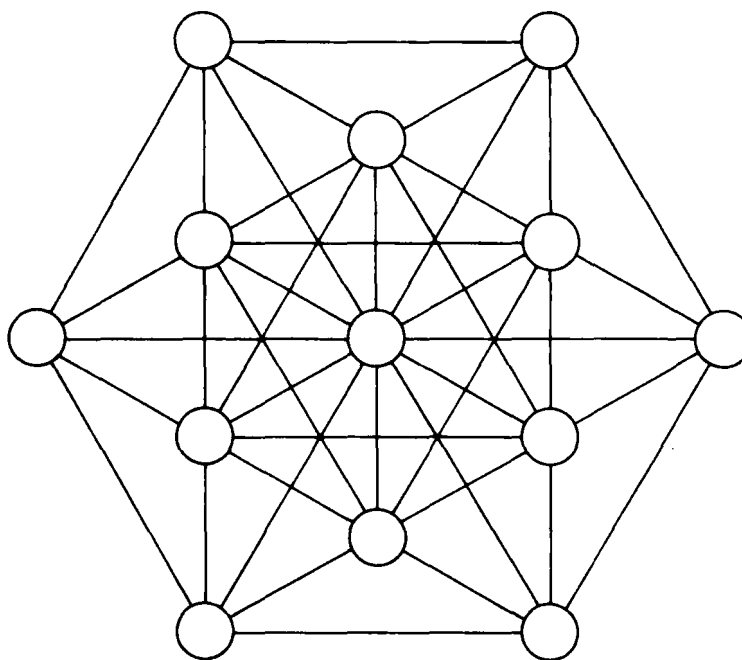


FIGURE 2

EXTERIOR GRID ROUTING

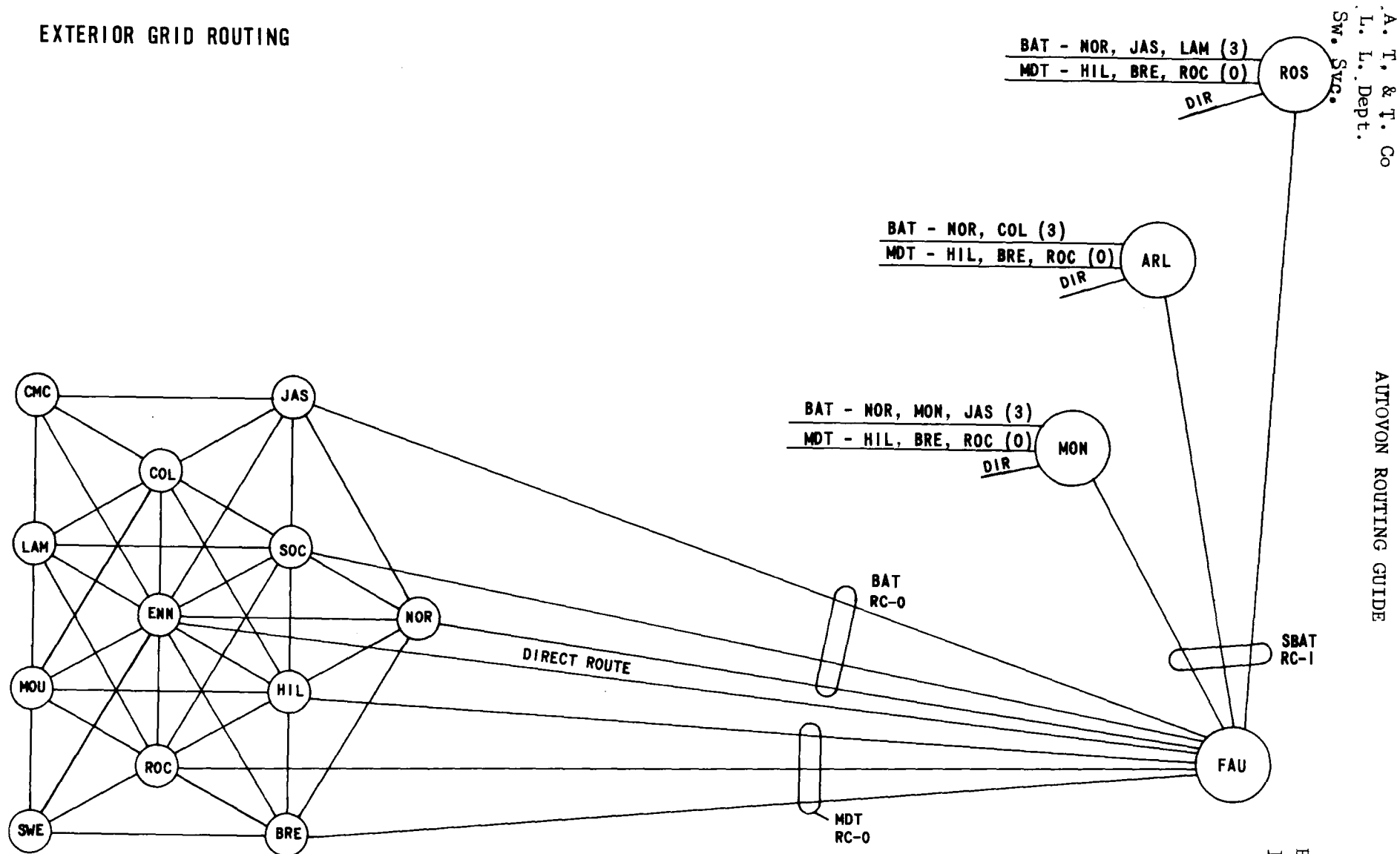


FIGURE 3

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DOUBLE GRID FOR DUAL HOMED PBX
SINGLE ADDRESS

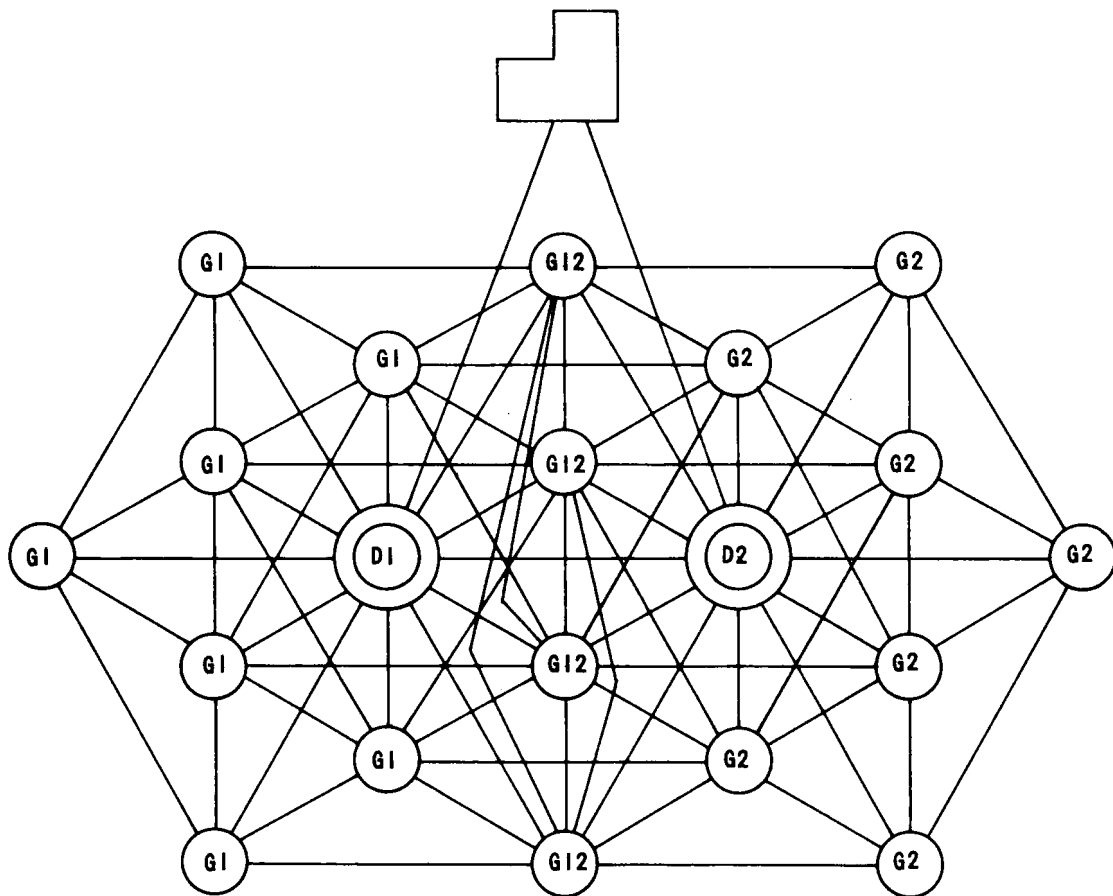


FIGURE 4

RCD/4W#5

HOME GRID

Programmed RCD		Direct 0	MDT 0 1 2 3	BAT 0 1 2 3	SBAT 0 1 2 3
Type of Call	RCD Received		RCD	Sent	Forward
P - 4 Routine	0	0		- 1 2 3	- - - -
	1	0		- - - -	- - - -
	2	0		- - - -	- - - -
	3	0		- - - -	- - - -
P-0 to P-3 Precedence	0	0		- 1 2 3	- 1 2 3
	1	0		- 3 3 3	- - - -
	2	0		- - - -	- 3 3 3
	3	0		- - - -	- - - -

EXTERIOR GRID

Programmed RCD		Direct 0	MDT 0 1 2 3	BAT 0 1 2 3	SBAT 0 1 2 3
Type of Call	RCD Received		RCD	Sent	Forward
P - 4 Routine	0	0	0 1 2 3	- - - -	- - - -
	1	0	0 1 2 3	- - - -	- - - -
	2	0	0 1 2 3	- - - -	- - - -
	3	0	0 1 2 3	- - - -	- - - -
P-0 to P-3 Precedence	0	0	0 1 2 3	0 1 2 3	0 1 2 3
	1	0	0 1 2 3	3 3 3 3	- - - -
	2	0	0 1 2 3	- - - -	3 3 3 3
	3	0	0 1 2 3	- - - -	- - - -

FIGURE 5

RCD/ESS

HOME GRID

Programmed RCD		Direct 0	1st Triple 0 1 2 3	2nd Triple 0 1 2 3	3rd Triple 0 1 2 3
Type of Call	RCD Received		RCD	Sent	Forward
P - 4 Routine	0	0	- 3 3 3	- - - -	
	1	0	- - - -	- - - -	
	2	0	- - - -	- - - -	
	3	0	- - - -	- - - -	
P-0 to P-3 Precedence	0	0	- 1 2 3	- 1 2 3	
	1	0	- 3 3 3	- - - -	
	2	0	- - - -	- 3 3 3	
	3	0	- - - -	- - - -	

EXTERIOR GRID

Programmed RCD		Direct 0	1st Triple 0 1 2 3	2nd Triple 0 1 2 3	3rd Triple 0 1 2 3
Type of Call	RCD Received		RCD	Sent	Forward
P - 4 Routine	0	0	0 1 2 3	- - - -	- - - -
	1	0	0 3 3 3	- - - -	- - - -
	2	0	0 3 3 3	- - - -	- - - -
	3	0	0 3 3 3	- - - -	- - - -
P-0 to P-3 Precedence	0	0	0 1 2 3	0 1 2 3	0 1 2 3
	1	0	0 3 3 3	0 3 3 3	- - - -
	2	0	0 3 3 3	- - - -	0 3 3 3
	3	0	0 3 3 3	- - - -	- - - -

FIGURE 6

A. T. & T. Co.
L. L. Dept.
Sw. Svc.

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Recommended
Number Group Frame Assignment

1000	1999
General Auto von AP	
1700	
Test Numbers	1699
1600 Non-Discriminate	
	1599
General Auto von AP	
1100	
Test Numbers	1099
1000 Non-Discriminate	

2000	2999
Sage/Norad AE	
2000	

3000		3999
General Autovon AP		
3300		
3200	FTS	3299 AT
Test Numbers		3199
3100 Non-Discriminate		
3000	FTS	3099 AT

4000	
	4999
	Spare
4600	
	4599
	General Autovon
	AP
4200	
	4299
	Spare
4000	

General Autovon

FTS

SAGE/NORAD

A Office Physical

A Office Theoretical

A Office Extra-Theoretical

B Office Physical

*Hillsboro and Santa Rosa Only

Line Numbers 1000-1099, 1600-1699 and 3100-3199 are "Non-Discriminating" and are reserved for test codes.

To provide uniformity in all offices, test numbers should be assigned as follows:

<u>4W#5</u> <u>All Communities</u>	<u>Type Line</u>
1001	Code 100 Balance Termination
1011	19A Testboard/Test Code 101/
1021	One Milliwatt/Test Code 102/
1061	Code 106 MW Tone & Loop Around Test
3118	Switchroom Phone Test Number
3120*	L. L. F. intercept announcement trunks (F-41) for precedence calls blocked A/C higher precedence.
3130-3131	INC Trunk Test Line
3134	4-Wire Ringer Tester
3135	Permanent Reorder Number
3136	Permanent Busy Test
3137	Originating Test Line - MTF
3138	Terminating Test Line - MTF
3140	10B Data Test Center
3150**	L. L. Intercept announcement trunks (F-41) for non-working numbers.
1611	Trouble reporting
3180-3199	These numbers should be used and reserved for additional test line supplementing directory numbers noted above; i.e., additional testboard lines, milliwatt lines, etc.

NNX Code 980 to be used for Ringer Test.

NNX Code 999 to be used for Trunk Test.

* Hillsboro, Ennis, and Santa Rosa use 1620.
** Hillsboro, Ennis, and Santa Rosa use 1650.

Line numbers 1000-1099 and 1611-1619 are reserved for
test codes.

To provide uniformity in all offices, test numbers
should be assigned as follows:

All Communities

Type Line

1001	600 Ohm Balance (100)
1011	Code 101 (TTB Trk)
1021	Milliwatt Test (102)
1031	E & M Test (103)
1051	ATMS Responder (105)
1061	Loop Around Test (106)
1081	ES Test (108)
1611	Trouble Reporting
(2) or (3)118	Switchroom Phone Test Number

NNX Code 980 to be used for Station Ringer TT-Test.
NNX Code 999 to be used for Trunk Testing.

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The following test codes provide a method for access lines to reach test terminations in the home switching machines. Thousand (D) digit translation is to be employed for Code 990. These codes apply to 4W#5 and #1 ESS machines.

<u>#1 ESS Machines</u>	<u>4W#5 Machines</u>	
990-0XXX	990-0100	Balance Termination
990-1XXX	990-1101	Toll Test Board
990-2XXX	990-2102	Milliwatt Test
990-3XXX	990-3103	Supervisory and Signaling Test (E & M Test)
	990-4104	Reserved for future use
990-5XXX	990-5105	ATMS Responder
990-6XXX	990-6161	Universal Trouble Reporting Number
	990-7107	Reserved for future use
990-8XXX	990-8108	E. S. Test
	990-9109	Reserved for future use

B-DIGIT SCREENING (4W#5)

CODE GROUPS

B - Digit	0	1	2	3	4	5	6	7	8	9
200-299			GA	GA	GA	GA	N/S	GA	GA	GA
300-399			N/S	N/S	GA	GA	GA	GA	GA	GA
400-499		GA*	N/S	GA		GA	GA	GA	GA	N/S
500-599			N/S	N/S	GA	GA	N/S	N/S	GA	GA**
600-699			GA	GA	N/S	N/S	N/S	N/S	GA	GA
700-799		GA*	GA	GA	GA	N/S	N/S	N/S	GA	GA
800-899			GA	GA	N/S	GA	GA	GA	GA	GA
900-999			GA	GA	GA	GA	GA	GA		

* Overseas

** Overseas Conference Code

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Switching Office: Apache Junction

<u>Location</u>	<u>Dual Homed Combinations</u>	<u>Digits Deleted</u>	<u>Code</u>	<u>Number Block Trans.</u>	<u>Effective</u>
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NORAD/SAGE

Central Office Code			845+		
Luke A. F. B., Arizona-RCC	Apa-Tur	4	656-0+	0	

GENERAL AUTOVON

Central Office Code		626+		
Davis Monthan A. F. B., Arizona	3	361+	1-5,7	
Ft. Huachuca, Arizona	3	879+	1-6,9	
Luke A. F. B., Arizona	3	853+	1,2,7	
Williams A. F. B., Arizona	3	474+	1,2,6,8	

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Switching Office: Arlington

<u>Location</u>	<u>Dual Homed Combinations</u>	<u>Digits Deleted</u>	<u>Code</u>	<u>Effective</u>
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NORAD/SAGE

None

GENERAL AUTOVON

Central Office Code			851+	
Andrews A. F. B., Md.		3	858+	
Bolling A. F. B., Wash., D. C.		3	991+	
Cameron Centrex	Arl-Dra	3	284+	
Columbia Pike Centrex, Arl, Va.	Arl-Dra	3	289+	
Forrestal Building, Wash., D. C.	Arl-Dra	3	223+	
Ft. Belvoir, Va.		3	354+	
Hoffman Bldg., Alex., Va.		3	221+	
Midtown Centrex, Wash., D. C.		3	294+	
Naval Academy, Annapolis, Md.		3	281+	1-8-72
Naval Comm. Sta., Cheltenham, Md.		3	251+	
Naval Med. Ctr., Bethesda (2W#5)		2	295+	
Naval Ocean Lab., Suitland (2W#5)		2	293+	
Naval Research Lab., Wash., D. C.		3	297+	
Naval Ships Res. & Dev. Ctr., Carderock, Md.		3	287+	
Pentagon PBX	Arl-Dra	2	224+	
Pentagon PBX	Arl-Dra	2	225+	
Pentagon PBX	Arl-Dra	2	227+	
Pentagon PBX	Arl-Dra	3	222+	
Tempo 8		2	286+	
U. S. Naval Eng. Cmd., Hyattsville, Md.		3	296+	
U. S. Stratcom-Operation Cabin Guard	Arl-Mon	3	964+	
Walter Reed Medical Ctr., Wash., D. C.		3	346+	11-20-71
Woodley Centrex, Washington, D. C.		2	292+	12-10-71

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Switching Office: Boone

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NORAD/SAGE

Central Office Code	496+
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GENERAL AUTOVON

Central Office Code	433+	
BCASD Cedar Rapids, Iowa	4	433+ 8
Rock Island Arsenal, Ill.	3	793+ 1,4-6

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Switching Office: Brewton

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NORAD/SAGE

Central Office Code			755+		
Tyndall A. F. B., Fla.-NCC	Bre-Roc	4	645-0+	0	

GENERAL AUTOVON

Central Office Code		436+		
Eglin A. F. B., Fla.	3	872+	1-7,9	
Ft. Benning, Columbus, Ga.	2	254+	0-4,7	
Ft. Benning, Columbus, Ga.	2	255+	1-7	
Ft. Rucker, Ala.	3	558+	1-6	
Geeia, E. Region, Kessler A. F. B., Miss.	3	363+	2	
Gulfport Naval Construction, Miss.	4	363+	4	
Kessler A. F. B., Miss.	3	868+	1-4	
Maxwell A. F. B., Ala.	Bre-Jas	3	875+	0-7
N. A. S., Pensacola, Fla.	2	922+	0-6	
N. A. S., New Orleans, Fla.	4	363+	7	
Nav. Sup. Act., East Bank, New Orleans, La.	3	363+	1,5	
Nav. Sup. Act., West Bank, New Orleans, La.	3	363+	9	
Tyndall A. F. B., Panama City, Fla.	3	970+	1-6	

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Switching Office: C. M. C.

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<u>NORAD/SAGE</u>					
Central Office Code			529+		
Ent A. F. B., Colo.-PBX		4	321+	1	
Ent A. F. B., Colo.-PBX		3	321+	2,3,6,7	

GENERAL AUTOVON

Central Office Code 834+

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Switching Office: Cedar Brook

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<u>NORAD/SAGE</u>					
Central Office Code			756+		
Atlantic City Dispersal, N. J.		5	676-1+	1	
Dover, Del.-FIS	Ced-Pot	4	666-3+	3	
Gibbsboro A. F. S., N. J.-LRR	Ced-Pot	5	666-0+	0	
McGuire A. F. B., N. J.-71st M.W.W.		4	676-0+	0	
New Egypt, N. J.-BOMARC	Ced-Pot	4	666-2+	2	
N. Y.-Phila. AADCP	Ced-Pot	4	666-1+	1	

GENERAL AUTOVON

Central Office Code		234+		
Aberdeen Proving Grounds, Md.		3	870+	1-5
Defense Clothing & Textile Ctr., Phila., Pa.		3	444+	1-4
Ft. Dix, N. J.		3	944+	1-6
Ft. Monmouth, N. J.		2	992+	0-9
Ft. Monmouth, N. J.		2	995+	0-9
Ft. Monmouth, N. J.		2	996+	0-9
Ft. Monmouth, N. J.		2	998+	0-9
Frankford Arsenal, Phila., Pa.		3	348+	1,5-7
Indiantown GAP Military Res., Pa.		3	637+	1,2
McGuire A. F. B., N. J.-Ft. Dix		3	440+	0,2-4
N. A. S., Johnsville, Pa.		3	441+	1,2,4
N. A. S., Lakehurst, N. J.		3	624+	1,2,7
Phila. Naval Support Depot, Pa.		3	442+	1-4,8
Phila. Navy Base - 4th Naval Dist.		3	443+	0-9
Phila. U. S. A. Electronics Support Cmd., Pa.		3	445+	1-3
Valley Forge General Hospital, Pa.		3	445+	4

OVERSEAS AUTOVON

Pre-Set Conference

Ced-Pot

594+

Dest. Hillingdon

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Switching Office: Charlottesville

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NORAD/SAGE

Central Office Code			574+		
Bedford A. F. S., Va.-LRP	Chv-Cha	4	659-4+	4	
Cape Charles A. F. S., Va.-LRR	Chv-Lee	4	654-1+	1	
Ft. Fisher A. F. S., N. C.-NCC	Chv-Cha	4	659-2+	2	
Ft. Lee, Va.-RCC	Chv-Cha-Lee	4	332+	1	
Hampton Roads-Norfolk AADGP		4	657-3+	3	
Langley Field, Va.-BOMARC	Chv-Lee	4	654-3+	3	
Langley Field, Va.-FIS	Chv-Lee	4	654-2+	2	
Pittsburgh, Pa.-AADGP	Chv-Lee	4	654-0+	0	
Roanoke Rapids A. F. S., N. C.-LRR	Chv-Cha	4	659-3+	3	

GENERAL AUTOVON

Central Office Code 934+

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Switching Office: Chatham

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NORAD/SAGE

Central Office Code			575+		
Bedford A. F. S., Val.-LRR	Chv-Cha	4	659-4+	4	
Ft. Fisher A. F. S., N. C.-NCC	Chv-Cha	4	659-2+	2	
Ft. Lee, Va.-RCC	Chv-Cha-Lee	4	332+	1	
McIntire A. F. B., S. C.	Stn-Cha	4	652-2+	2	
No. Charleston A. F. S., S. C.-LRR	Stn-Cha	4	652-0+	0	
Roanoke Rapids A. F. S., N. C.-LRR	Chv-Cha	4	659-3+	3	

GENERAL AUTOVON

Central Office Code		935+		
Ft. Bragg, Fayetteville, N. C.	2	236+	0-9	
Pope A. F. B., N. C.	3	486+	0,2,4	
Radford Army Ammo. Plant, Va.	4	486-9+	9	

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Switching Office: Cheshire

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NORAD/SAGE

Central Office Code			846+		
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GENERAL AUTOVON

Central Office Code			627+		
Naval Underwater Lab., New London, Conn.	3		636+	0,2	
New London Sub. Base, Conn.	3		241+	0,1,3,4	

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Switching Office: Chesterfield

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NORAD/SAGE

Central Office Code			767+		
Burlington, Vt.-FIS	Tly-Che	5	337-0+	0	
Griffis A. F. B., N. Y.-FIS	Tly-Che	4	337-1+	1	
Hancock Field, N. Y.-RCC	Tly-Che	4	337-5+	5	
Lockport A. F. S., N. Y.-LRR/Niagara BOMARC	Tly-Che	4	337-6+	6	
Montauk A. F. S., N. Y.-LRR	Lit-Che	4	843-5+	5	
New England AADCP	Lit-Che	4	843-0+	0	
No. Truro A. F. S., Mass.-NCC	Lit-Che	4	843-1+	1	
Otis A. F. B., Mass.-BOMARC	Lit-Che	4	843-2+	2	
Otis A. F. B., Mass.-FIS	Lit-Che	4	843-3+	3	
Saratoga Springs A. F. S., N. Y.-LRR	Tly-Che	4	337-4+	4	
St. Albans A. F. S., Vt.-LRR	Tly-Che	4	337-3+	3	
Watertown A. F. S., N. Y.-LRR	Tly-Che	4	337-2+	2	

GENERAL AUTOVON

Central Office Code		893+		
Plattsburgh A. F. B., N. Y.	3	689+	1,5,7	1-15-72
Watervliet Arsenal, Watervliet, N. Y.	3	974+	1,5	
Westover A. F. B., Mass.	3	589+	1-7	

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Switching Office: Colorado Springs

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NORAD/SAGE

Central Office Code			521+		
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GENERAL AUTOVON

Central Office Code		553+		
A. F. Academy, Colorado	3	259+	2-4	
Air Force Acctg. & Finance Ctr., Denver, Colo.	3	555+	1-6	
Ent A. F. B., Colorado	3	692+	1-3,5,6	
F. E. Warren A. F. B., Wyo	3	481+		
Fitzsimmons Gen. Hospital, Denver, Colo.	3	943+		
Ft. Carson, Colorado (Prefix 9)	3	691+		
Lowry A. F. B., Colorado	3	926+		
Peterson Field, Colorado Springs, Colo.	3	692+	4,7	1-31-72
Rocky Mt. Arsenal, Colorado	3	556+		

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Switching Office: Delta

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NORAD/SAGE

Central Office Code	764+
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GENERAL AUTOVON

Central Office Code		890+	
Def. Depot, Ogden, Utah		3	790+ 7
Desert Test Center, Utah	(Prefix 5)	1	924+ 2-5
Dugway Proving Ground, Utah		3	789+ 1-3,5,6
Hill A. F. B., Ogden, Utah	Del-Lam	3	929+ 1-7
Tooele Army Depot, Utah		3	790+ 1-2

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Switching Office: Dover-Foxcroft

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NORAD/SAGE

Central Office Code			847+		
Barrington ASN, N. S.-LRR	Dov-Fre	4	423-8+	8	
Bucks Harbor, Maine-LRP	Dov-Fre	4	423-1+	1	
Caswell A. F. S., Me.-LRP	Dov-Fre	4	423-2+	2	
Charleston A. F. S., Maine-NCC	Lit-Dov	4	649-0+	0	
Dow A. F. B., Maine	Dov-Fre	4	423-3+	3	
Loring A. F. B., Maine	Dov-Fre	4	423-4+	4	
Saint Margarets, N. B.-NCC	Dov-Fre	4	423-6+	6	
Sydney Mines, N. S.-LRR	Dov-Fre	4	423-7+	7	

GENERAL AUTOVON

Central Office Code			628+		
Cutler, Maine		4	476+	7	
Loring A. F. B., Limestone, Maine		3	920+	1-4,6,7	
Naval Air Station, Brunswick, Me.		3	476+	1,2	

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Switching Office: Dranesville

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NORAD/SAGE

None

GENERAL AUTOVON

Central Office Code			725+	
Army Map Service, Wash., D. C.		3	359+	0,2,3,6,9
Cameron Centrex	Arl-Dra	3	284+	6,7
Columbia Pike Centrex, Arl., Va.	Arl-Dra	3	289+	0-9
Forrestal Building, Wash., D. C.	Arl-Dra	3	223+	0-9
GPA	Dra-Mon		370+	to 399+
GPA	Dra-Mon		540+	to 549+
GPA	Dra-Mon		963+	
Marine Corps Dev. & Educ. Md., Quantico, Va.		3	278+	2-5
N. A. S., Patuxent, Md.		3	356+	0,3,4
Naval Weapons Lab., Dalgren, Va.		3	249+	1,8
Pentagon PBX	Arl-Dra	2	224+	0-9
Pentagon PBX	Arl-Dra	2	225+	0-9
Pentagon PBX	Arl-Dra	2	227+	0-9
Pentagon PBX	Arl-Dra	3	222+	0-9
Vint Hill Farms, Va.		3	249+	0,6

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Switching Office: Ellisville

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NORAD/SAGE

Central Office Code			497+		
Aiken A. F. S., S. C.-LRR	Roc-E11	4	265-6+	6	
Hunter A. F. B., Ga.-LRR	Roc-E11	4	265-0+	0	
Jacksonville International Airport, Fla.	Roc-E11	4	265-2+	2	
Jacksonville A. F. S., Fla. -LRR	Roc-E11	4	265-1+	1	
Key West N. A. S., Fla.-LRR	E11-Pol	4	641-1+	1	
MacDill A. F. B., Fla.-LRR	E11-Pol	4	641-2+	2	
Miami-Homestead AADCP	E11-Pol	4	641-0+	0	
Patrick A. F. B., Fla.-LRR	E11-Pol	4	641-4+	4	
Richmond A. F. S., Fla.-LRR	E11-Pol	4	641-3+	3	

GENERAL AUTOVON

Central Office Code		434+		
Cape Kennedy A. F. S., Fla.	3	559+	1-3,6-9	
Ft. Stewart, Georgia	3	971+	1-7	
Marine Corps Supply Ctr., Albany, Ga.	3	460+	2,5	
Mayport Naval Station, Jacksonville, Fla.	4	460+	8	
Moody A. F. B., Ga.	3	460+	1,3	
N. A. S., Albany, Ga.	3	860+	2-4	
N. A. S., Jacksonville, Fla.	3	942+	0,2,3	

OVERSEAS AUTOVON

Pre-Set Conference 593+

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Switching Office: Ennis

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NORAD/SAGE

Central Office Code			527+	
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GENERAL AUTOVON

Central Office Code		733+
DCASR, Dallas, Texas	4	940+
Ft. Hood, Texas	3	737+
Ft. Wolters, Texas	3	483+

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Switching Office: Fairacres

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NORAD/SAGE

Central Office Code			771+		
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GENERAL AUTOVON

Central Office Code			749+		
Ft. Bliss, El Paso, Texas	2		978+	0-9	
Ft. Bliss, El Paso, Texas	2		979+	0,8,9	
Holloman A. F. B., New Mexico	3		867+	1-4,7	
White Sands, New Mexico	2		258+	0-9	

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Switching Office: Fairview

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NORAD/SAGE

Central Office Code 761+

GENERAL AUTOVON

Central Office Code		886+	
Forbes A. F. B., Kansas	3	720+	1,4,5,7
Ft. Leavenworth, Kansas	3	552+	1-5,8
Ft. Riley, Kansas	3	856+	1-7,9
Marine Corp. Finance Ctr., Kansas City, Mo.	3	886+	7
Offutt A. F. B., Neb.	3	271+	0-9
Richards-Gebaur A. F. B., Mo.	3	960+	1-3
Whiteman A. F. B., Mo.	3	975+	1-3,5-7

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Switching Office: Fredericton

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NORAD/SAGE

Central Office Code			260+		
Barrington ASN, N. S.-LRR	Dov-Fre	4	423-8+	8	
Bucks Harbor, Maine-LRR	Dov-Fre	4	423-1+	1	
Caswell A. F. S., Maine-LRR	Dov-Fre	4	423-2+	2	
Chatham, N. B.-FIS	Fre-She	4	428-5+	5	
Dow A. F. B., Maine	Dov-Fre	4	423-3+	3	
Goose Bay (Melville) ASN, LAB-LRR	Fre-She	4	428-0+	0	
Loring A. F. B., Maine	Dov-Fre	4	423-4+	4	
Moisie RSI, Que.-LRR	Fre-She	4	428-1+	1	
Saint Margarets, N. B.-NCC	Dov-Fre	4	423-6+	6	
Sydney Mines, N. S.-LRR	Dov-Fre	4	423-7+	7	

GENERAL AUTOVON

Central Office Code

622+

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Switching Office: Glendive

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NORAD/SAGE

Central Office Code			753+		
Fortuna A. F. S., N. D.-NCC	Gle-Reg	4	653-0+	0	
Great Falls, Mont.-FIS	Gle-Hel	4	427-0+	0	
Havre A. F. S., Mont.-NCC/LRR	Gle-Let	4	429-0+	0	
Logan Field, Mont.-DISP		4	569-0+	0	
Minot A. F. B., N. D.-FIS	Gle-Reg	4	653-1+	1	
Minot A. F. B., N. D.-LRR	Gle-Reg	4	653-2+	2	
Opheim A. F. S., Mont.-LRR	Gle-Hel	4	427-1+	1	
Yorktown ASN, Sask.-LRR	Gle-Reg	4	653-4+	4	

GENERAL AUTOVON

Central Office Code			823+		
Minot A. F. B., N. D.		3	783+	1-5,7	

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Switching Office: Hagerstown

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NORAD/SAGE

Central Office Code			572+		
Ft. Meade A. F. S., Md.-LRR/ Wash.-Balt. AADCP Lee-Hag		4	662-1+	1	

GENERAL AUTOVON

Central Office Code		936+		
Carlisle Barracks, Pa.	3	242+	3,4	
Letterkenny Army Depot, Chambersburg, Pa.	3	242+	1,6,7	
Mechanicsburg Naval Supply Depot, Pa.	3	277+	1,2,3	

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Switching Office: Haney

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<u>NORAD/SAGE</u>					
Central Office Code			772+		
Baldy Hughes ASN, B. C.-LRR	Han-Nbw	4	490-5+	5	
Beaver Lodge, Alta.-LRR	Han-Yak	4	334-1+	1	
Elaine A. F. S., Wash.-LRR	Han-Nbw	4	490-4+	4	
Comox, B. C.-FIB	Han-Nbw	4	490-0+	0	
Holberg ADM, B. C.-LRR	Han-Nbw	4	490-6+	6	
Kamloops RSI, B. C.-LRR	Han-Yak	4	334-3+	3	
Makah A. F. S., Wash.-LRR	Han-Nbw	4	490-1+	1	
McChord A. F. B., Wash.-RCC	Han-Nbw	4	490-2+	2	

GENERAL AUTOVON

None

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Switching Office: Helena

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NORAD/SAGE

Central Office Code			983+		
ATSS (3 Digit No.'s)	Yak-Hel	4	325+	0-9	
ATSS (7 Digit No.'s)	Yak-Hel	3	907+	0-9	
Great Falls, Mont.-FIS	Gle-Hel	4	427-0+	0	
Kalispell A. F. S., Mont.-LRR	Hel-Let	5	267-1+	1	
Malsmtrom A. F. B., Mont.-RCC	Hel-Let	4	267-3+	3	
Opheim A. F. S., Mont.-LRR	Gle-Hel	4	427-1+	1	
Pedro Dome, Alaska (V. A.)	Yak-Hel	4	210+	0-9	
Penhold RSI, Alta.-LRR	Hel-Let	4	267-2+	2	

GENERAL AUTOVON

Central Office Code			728+		
ATSS (7 Digit No.'s)	Nbw-Hel	3	317+	0-9	
Conrad, Montana		4	728+	8	
Mt. Home A. F. B., Idaho		3	857+	1,2,6	

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Switching Office: Hillsboro

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NORAD/SAGE

Central Office Code			522+	
Automatic Conference Equipment**			422-0+	
Automatic Conference Equipment**			422-3+	
Automatic Conference Equipment**			422-4+	
Automatic Conference Equipment**			422-5+	
Automatic Conference Equipment**			422-6+	
Automatic Conference Equipment**			422-8+	
Automatic Conference Equipment**			424-0+	
Automatic Conference Equipment**			424-2+	
Automatic Conference Equipment**			424-3+	
Automatic Conference Equipment**			424-4+	
Automatic Conference Equipment**			424-6+	
Automatic Conference Equipment**			424-8+	

** Each office to route only originating Norad/Sage Automatic Conference, and Off-Hook class of service to codes 422 and 424. Tandem calls are permitted access to codes 422 and 424.

GENERAL AUTOVON

Central Office Code		631+
Automatic Conference Equipment-3*		969+
Scott A. F. B., Ill.	3	638+
St. Louis D. T. S., Mo.	2	693+
St. Louis D. T. S., Mo.	2	698+

* Each office to route only originating General Autovon Automatic Conference, and Off-Hook class of service to code 969. Tandem calls are permitted access to code 969.

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Switching Office: Iron Mountain

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NORAD/SAGE

Central Office Code			651+		
Calumet A. F. S., Mich.-NCC	Tby-Iro	4	421-1+	1	
Empire A. F. S., Mich.-LRR	Iro-Rsc	4	494-4+	4	
Falconbridge RSI, Ont.-LRR	Iro-Rsc	4	494-2+	2	
K. I. Sawyer A. F. B., Mich.-FIS	Iro-Rsc	4	494-1+	1	
Lowther ASN, Ont.-LRR	Tby-Iro	4	421-0+	0	
Port Austin A. F. S., Mich.-LRR	Iro-Rsc	4	494-3+	3	
Raco, Michigan-BOMARC	Iro-Rsc	4	494-5+	5	
S. S. Marie A. F. S., Mich.-LRR	Iro-Rsc	4	494-0+	0	

GENERAL AUTOVON

None

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Switching Office: Jasper

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NORAD/SAGE

Central Office Code			758+		
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GENERAL AUTOVON

Central Office Code			882+		
Anniston Army Depot, Ala.		3	694+	1-3	11-20-71
Atlanta Army Depot, Ga.		3	477+	1,5,7	
DCASR, Atlanta, Ga.		4	742+	9	
Ft. Campbell, Ky.		3	635+	0-8	
Ft. McClellan, Anniston		3	865+	1,3-5	
Ft. McPherson, Ga.		3	557+	1-4	
Maxwell A. F. B., Ala.	Bre-Jas	3	875+	0-7	
Redstone Arsenal, Ala.		2	746+	0-9	
Senscom H. Q., Huntsville, Ala.		3	742+	3-5	

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Switching Office: Julian

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NORAD/SAGE

Central Office Code			982+		
Boron A. F. S., Calif.-LRR	Jul-Moj	4	660-1+	1	
Cambria A. F. S., Calif.-LRR	Slo-Jul	4	778-1+	1	
Los Angeles AADCP	Jul-Moj	4	660-0+	0	
Mt. Laguna A. F. S., Calif.-NCC	Jul-Moj	4	660-2+	2	
San Pedro Hill A. F. S., Calif.-LRR	Jul-Tur	5	672-0+	0	

GENERAL AUTOVON

Central Office Code		727+		
11th Naval Dist., San Diego, Calif.	4	933+	8	
M.C.A.S., El Toro, Calif.	3	952+	0,2,3	
M. C. Recruiting Depot, San Diego, Calif. & Naval Training Center, San Diego, Calif.	3	957+	0,3-7	
March A. F. B., Calif.	3	283+	1-5	
Marine Air Station, Yuma, Arizona	4	933+	9	
Naval Air Facility, El Centro, Calif.	4	958+	8	
Naval Amphib. Base, Coronado, Calif.	4	958+	9	
Naval Electronics Lab., San Diego, Calif.	3	952+	1,6,7	
Naval Ord. Lab., Corona, Calif.	3	933+	0,4,5	
Naval Station, San Diego, Calif.	3	958+	0-2	
N. A. S., Marmar, Calif.	3	959+	0,2,3	
N. A. S., North Island, Calif.	3	951+	0,5-7	
Yuma Proving Grounds, Yuma, Ariz.	3	899+	1-3,5,6	

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Switching Office: Lamar

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NORAD/SAGE

Central Office Code 751+

GENERAL AUTOVON

Central Office Code			887+		
Buckley Air National Guard, Colo.		4	877-9+	9	1-18-72
Hill A. F. B., Ogden, Utah	Del-Lam	3	929+	1-7	
Pueblo Army Depot, Colo.		3	877+	8	

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Switching Office: Leesburg

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NORAD/SAGE

Central Office Code			573+		
Cape Charles A. F. S., Va.-LPP	Chv-Lee	4	654-1+	1	
Ft. Lee, Va.-RCC	Chv-Cha-Lee	4	332+	1	
Ft. Monro A. F. S., Md.-LPP/ Wash.-Balt. AADCP	Lee-Hag	4	662-2+	1	
Langley Field, Va.-ROMARC	Chv-Lee	4	654-3+	3	
Langley Field, Va.-FIS	Chv-Lee	4	654-2+	2	
Pittsburgh, Pa.-AADCP	Chv-Lee	4	654-0+	0	

GENERAL AUTOVON

Central Office Code	937+
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Switching Office: Lethbridge

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NORAD/SAGE

Central Office Code			775+		
Alsask ASN, Sask.-LRR	Let-Reg	4	531-1+	1	
Cold Lake ADR, Alta.-LRR		4	323-0+	0	
Dana ASN, Sask.-LRR	Let-Reg	4	531-0+	0	
Havre A. F. S., Mont.-NCC	Gle-Let	4	429-0+	0	
Kalispell A. F. S., Mont.-LRR	Hel-Let	5	267-1+	1	
Malmstrom A. F. B., Mont.-RCC	Hel-Let	4	267-3+	3	
Penhold RSI, Alta.-LRR	Hel-Let	4	267-2+	2	

GENERAL AUTOVON

Central Office Code	243+
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Switching Office: Littleton

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NORAD/SAGE

Central Office Code			757+		
Charleston A. F. S., Maine-NCC	Lit-Dov	4	649-0+	0	
Montauk A. F. S., N. Y.-LRR	Lit-Che	4	843-5+	5	
New England AADCP	Lit-Che	4	843-0+	0	
No. Truro A. F. S., Mass.-NCC	Lit-Che	4	843-1+	1	
Otis A. F. B., Mass.-BOMARC	Lit-Che	4	843-2+	2	
Otis A. F. B., Mass.-FIS	Lit-Che	4	843-3+	3	

GENERAL AUTOVON

Central Office Code		881+		
Boston Army Base, Mass.	4	955+	8	
Boston Naval Shipyard, Mass.	3	743+	1,2,7	
1st Navy District, Boston, Mass.	4	955+	9	
Fort Devens, Mass.	3	256+	1-4	
Hanscom Field, Mass.	3	478+	1-5	
N. A. S., Quonset Pt., R. I.	3	795+	1-3	
Natick Labs, Mass.	3	955+	1,2	
Naval Shipyard, Portsmouth, N. H.	3	684+	0-2	
Newport, R. I.-Navy Base	3	948+	1-4	
Pease A. F. B., N. H.	3	852+	1-7	
Watertown Arsenal, Mass.	4	684+	8	
Winter Harbor, Maine	4	684+	9	

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Switching Office: Lodi

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NORAD/SAGE

Central Office Code			985+		
Almaden A. F. S., Calif.-LRR	Lod-Top	4	644-0+	0	
Fallon A. F. S., Nev.-NCC	Lod-Top	4	644-1+	1	
Hamilton A. F. B., Calif.-FIS	Sra-Lod	4	646-5+	5	
McClellan A. F. B., Calif.-FN	Sra-Lod	4	646-7+	7	
Mill Valley A. F. S., Calif.-LRR	Sra-Lod	4	646-6+	6	
Point Arena A. F. S., Calif.-LRR	Sra-Lod	4	646-0+	0	

GENERAL AUTOVON

Central Office Code		730+	
Army Audit Agency, Redwood City, Calif.	4	462+	8
Ft. Ord, Calif.	3	973+	1-8
DCASR, San Francisco, Calif.	4	479+	9
Mather A. F. B., Calif.	3	828+	1-4
McClellan A. F. B., Calif.	3	633+	0-9
Moffett Field, Calif.-NAS	3	462+	0,5
Post Grad. School, Monterey, Calif.	3	479+	0,2
Sacramento Army Depot, Calif.	3	839+	1,2
Sharpe Army Depot, Stockton, Calif.	3	462+	2

OVERSEAS AUTOVON

Pre-Set Conference	Slo-Lod	595+	Dest. Wahiawa
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Switching Office: Lyons

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NORAD/SAGE

None

GENERAL AUTOVON

Central Office Code			939+	
Offutt A. F. B., Neb.	Fvw-Lyo	3	271+	1-5,7,9
Richards-Gebaur A. F. B., Mo.	Fvw-Lyo	3	960+	1-3

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Switching Office: Medford

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NORAD/SAGE

Central Office Code			447+		
Keno A. F. S., Ore.-NCC	Med-Yak	4	841-0+	0	
Kingsley A. F. B., Ore.-FIS	Med-Nbw	5	779-0+	0	
Klamath A. F. S., Calif.-LRR	Med-Yak	4	841-2+	2	
North Bend A. F. S., Ore.-LRR	Med-Yak	4	841-1+	1	

GENERAL AUTOVON

Central Office Code	620+
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Switching Office: Memphis Junction

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NORAD/SAGE

Central Office Code			498+		
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GENERAL AUTOVON

Central Office Code		435+		
Def. Depot, Memphis, Tenn.	3	966+	9	
Ft. Leonard Wood, Waynesville, Mo.	3	738+	0-9	
Pine Bluff Arsenal, Ark.	3	966+	1-3	

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Switching Office: Mojave

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NORAD/SAGE

Central Office Code			770+		
Boron A. F. S., Calif.-NCC	Jul-Moj	4	660-1+	1	
Los Angeles AADCP	Jul-Moj	4	660-0+	0	
Mt. Laguna A. F. S., Calif.-LRR	Jul-Moj	4	660-2+	2	

GENERAL AUTOVON

Central Office Code			898+		
DCAS -D- Anaheim, Calif.	3		873-2+	2	
DCAS -D- Van Nuys, Calif.	3		873-3+	3	
Edwards A. F. B., Calif.	3		350+	1-4	
Ft. McArthur, Calif.	3		972+	1,6,7	
George A. F. B., Calif.	3		353+	1-4,8,9	
Naval Ord. Test Sta., Pasadena, Calif.	4		873-1+	1	
Naval Station, Long Beach, Calif.	3		360+	0,6-8	
Norton A. F. B., Calif.	3		876+	1-7	
Pacific Missile Range, Point Mugo, Calif.	3		873+	7,8	
Space System Div., El Segundo, Calif.-(CTX)	2		833+	CTX Trks.	

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Switching Office: Monrovia

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NORAD/SAGE

Central Office Code			525+	
Blue Ridge Summit, Pa.-PBX		3	331+	

GENERAL AUTOVON

Central Office Code			231+	
Automatic Conference Equipment-0*			469+	
Blue Ridge Summit		2	988+	
Edgewood Arsenal, Md.		3	584+	
Ft. Detrick, Frederick, Md.		3	343+	
Ft. Meade, Md.		3	923+	
GPA	Dra-Mon		370+ to 399+	
GPA	Dra-Mon		540+ to 549+	
GPA	Dra-Mon		963+	
Naval Ord. Lab., White Oak, Md.		3	233+	
New Cumberland Army Depot, Pa.		3	977+	
N.S.A., Ft. Meade, Maryland		3	235+	
OCD Branch #1 PBX		3	246+	
U. S. Stratcom - Operation Cabin Guard	Arl-Mon	3	964+	

* Each office to route only originating class of service SF, SG, SJ, SH, and SK to code 469. Tandem calls are permitted access to code 469.

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Switching Office: Moseley

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NORAD/SAGE

Central Office Code			563+		
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GENERAL AUTOVON

Central Office Code		723+	
Camp Lejeune, N. C.	3	279+	0-7
Defense General Supply Ctr., Richmond, Va.	3	695+	0-9
Ft. Eustis, Va.	3	927+	1-5
Ft. Lee, Petersburg, Va.	3	687+	0-6
Ft. Monroe, Va.	3	680+	1-4
Langley A. F. B., Va.	3	432+	1-7
Marine Corps Air Station, Jacksonville, N. C.	4	680+	6
Nav. Amphib. Base, Little Creek, Va.	3	680+	0,7,8
Naval AS, Virginia Beach, Va.	3	274+	1-4
Naval Shipyard, Portsmouth, Va.	3	961+	0,3,5,7
Naval Weapons Station, Yorktown, Va.	3	953+	0-4,7
Norfolk Naval Base, Va.	3	690+	0-9
U. S. A. Engineering Dist., Norfolk, Va.	4	680+	9
U. S. Foreign Science Ctr., Charlottesville, Va.	4	274+	7

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Switching Office: Mounds

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NORAD/SAGE

Central Office Code 759+

GENERAL AUTOVON

Central Office Code		883+	
AFES, Dallas, Texas	3	582+	1-3
DCASO, Wichita, Kansas	5	956+	9
Ft. Chaffee, Ark.	3	962+	2,3
Ft. Sill, Lawton, Okla.	3	639+	1-7
McConnell A. F. B., Kansas	3	962+	1,5,6
N. A. D., McAlister, Okla.	3	956+	6
N. A. S., Dallas, Texas	4	582+	9
Oklahoma A. F. S., Okla.	4	735+	9
Red River Army Depot, Texas	3	956+	1-4
Tinker A. F. B., Okla.	3	735+	1-3,5,7
Vance A. F. B., Okla.	4	962+	7

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Switching Office: Netcong

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NORAD/SAGE

Central Office Code			535+		
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GENERAL AUTOVON

Central Office Code		938+			
Army Eng. Dist., New York, N. Y.	2	796+	0-9		
Brooklyn Army Term., N. Y.	3	740+	0-5		
DCAS, Springfield, N. J.	4	740+	9		
Def. Cont. Admin. Dist., N. Y., N. Y.	2	994+	0-9		
Ft. Hamilton, Brooklyn, N. Y.	2	232+	0-9		
Naval Supply Center, Bayonne, N. J.	3	247+	0,6,7		
Picatinny Arsenal, N. J.	3	880+	0-9		
Stewart A. F. B., N. Y.	3	247+	2,3		
Third Navy District, N. Y.	3	740+	7		
Tobyhanna Army Depot, Tobyhanna, Pa.	4	247+	9		
U. S. Military Academy, West Point, N. Y.	3	688+	1-5		12-4-71

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Switching Office: North Bend

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NORAD/SAGE

Central Office Code			765+		
Baldy Hughes ASN, B. C.-LRR	Han-Nbw	4	490-5+	5	
Blaine A. F. S., Wash.-LRR	Han-Nbw	4	490-4+	4	
Comox, B. C.-FIB	Han-Nbw	4	490-0+	0	
Holberg ADM, B. C.-LRR	Han-Nbw	4	490-6+	6	
Kingley A. F. B., Ore.-FIS	Med-Nbw	5	779-0+	0	
Makah A. F. S., Wash.-LRR	Han-Nbw	4	490-1+	1	
McChord A. F. B., Wash.-RCC	Han-Nbw	4	490-2+	2	
McChord A. F. B., Wash.-FIS	Nbw-Yak	5	670-6+	6	
Mica Peak, Wash.-LRR	Nbw-Yak	5	670-0+	0	
Mt. Hebo, Ore.-LRR	Nbw-Yak	4	670-7+	7	
Othello A. F. S., Wash.-NCC	Nbw-Yak	4	670-8+	8	
Portland, Ore.-FN	Nbw-Yak	4	670-9+	9	
Seattle AADCP	Nbw-Yak	4	670-4+	4	

GENERAL AUTOVON

Central Office Code			891+		
ATSS (7 Digit No.'s)	Nbw-He1	3	317+	0-9	
Fairchild A. F. B., Wash.		3	352+	1-5	
Ft. Lewis, Tacoma, Wash.		2	357+	2-6	
Ft. Lewis, Tacoma, Wash.		2	358+	2-5	
McChord A. F. B., Wash.		3	976+	1-3,5,6	
N. A. S., Seattle, Wash.		3	941+	3	
N. A. S., Whidby Island, Wash.		3	820+	0,2-4	
Naval Shipyard, Puget Sound, Wash.		3	439+	2-4,7	
Naval Supply Depot, Seattle, Wash.		4	820+	9	
Poulsbo Tel. Co., Seattle, Wash.		3	744+	0-2,4	

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Switching Office: Norway

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NORAD/SAGE

Central Office Code			523+	
Chicago-Milwaukee AADCP	Nor-Stv	4	844-0+	
Selfridge A. F. B., Mich.-LRR/Detroit- Cleveland AADCP	Nor-Rsc	4	491-1+	
Traux Field, Wisc.-FIS	Nor-Stv	4	844-1+	
Wurtsmith, Mich.-FIS	Nor-Rsc	4	491-0+	

GENERAL AUTOVON

Central Office Code		551+
Glenview N. A. S., Ill.	3	932+
Great Lakes Naval Training Ctr., Ill.	2	792+
O'Hare International Airport, Chicago, Ill.	3	930+

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Switching Office: Parma

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NORAD/SAGE

None

GENERAL AUTOVON

Central Office Code		892+	
Army Tank Automotive Command, Detroit, Mich.	2	273+	1,2
Def. log. Svc. Ctr., Battle Creek, Mich.	3	369+	0,6
DCASR, Detroit, Mich.	3	798+	1-6
Mich. Army Missile Plant, Warren, Mich.	3	369+	1,2

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Switching Office: Pickens

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NORAD/SAGE

Central Office Code			499+		
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GENERAL AUTOVON

Central Office Code			437+		
Barksdale A. F. B., La.	3		463+	2-4	
England A. F. B., La.	3		683+	1,2,5	
Ft. Polk, Leesville, La.	3		488+	1,2,4,5	

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Switching Office: Polk City

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NORAD/SAGE

Central Office Code			768+		
Key West N. A. S., Fla.-LRR	E11-Pol	4	641-1+	1	
MacDill A. F. B., Fla.-LRR	E11-Pol	4	641-2+	2	
Miami-Homestead AADCP	E11-Pol	4	641-0+	0	
Patrick A. F. B., Fla.-LRR	E11-Pol	4	641-4+	4	
Richmond A. F. S., Fla.-LRR	E11-Pol	4	641-3+	3	

GENERAL AUTOVON

Central Office Code		894+			
DCASR, Orlando, Fla.	4	854+	9		
Homestead A. F. B., Fla.	3	791+	0,7,8		
MacDill A. F. B., Fla.	3	968+	1-5		
McCoy A. F. B., Orlando, Fla.	3	341+	1,5,7		2-19-72
Naval Training Ctr., Orlando, Fla.	3	791+	4,5		
Patrick A. F. B., Fla.	2	854+	1,2,4-7		

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Switching Office: Portage

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NORAD/SAGE

Central Office Code			571+		
Baudette A. F. S., Minn.-NCC	Whn-Por	4	567-0+	0	
Beausejour RSI, Man.-LRR	Whn-Por	4	567-2+	2	
Finley A. F. S., N. D.-LRR	Whn-Por	4	567-1+	1	
Grand Forks, N. D.-FIS	Whn-Por	5	567-3+	3	
Gypsumville ASN, Man-LRR		4	324-0+	0	

GENERAL AUTOVON

Central Office Code 248+

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Switching Office: Pottstown

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<u>NORAD/SAGE</u>					
Central Office Code			777+		
Benton A. F. S., Pa.-LRR	Tly-Pot	4	577-0+	0	
Dover, Del.-FIS	Ced-Pot	4	666-3+	3	
Gibbsboro A. F. S., N. J.	Ced-Pot	5	666-0+	0	
N. Y.-Phila. AADCP	Ced-Pot	4	666-1+	1	
New Egypt, N. J.-BOMARC	Ced-Pot	4	666-2+	2	

GENERAL AUTOVON

Central Office Code 895+

OVERSEAS AUTOVON

Pre-Set Conference Ced-Pot 594+ Dest. Hillingdon

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Switching Office: Regina

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NORAD/SAGE

Central Office Code			579+		
Alsask ASN, Sask.-LRR	Let-Reg	4	531-1+	1	
Dana ASN, Sask.-LRR	Let-Reg	4	531-0+	0	
Fortuna A. F. S., N. D.-NCC	Gle-Reg	4	653-0+	0	
Minot A. F. B., N. D.-FIS	Gle-Reg	4	653-1+	1	
Minot A. F. B., N. D.-LRR	Gle-Reg	4	653-2+	2	
Yorkton ASN, Sask.-LRR	Gle-Reg	4	653-4+	4	

GENERAL AUTOVON

None

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Switching Office: Rockdale

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NORAD/SAGE

Central Office Code			526+	
Aiken A. F. S., S. C.-LRR	Roc-Ell	4	265-6+	
Hunter A. F. B., Ga.-LRR	Roc-Ell	4	265-0+	
Jacksonville International Airport, Fla.	Roc-Ell	4	265-2+	
Jacksonville A. F. S., Fla.-LRR	Roc-Ell	4	265-1+	
Tyndall A. F. B., Fla.-NCC	Bre-Roc	4	645-0+	

GENERAL AUTOVON

Central Office Code			431+	
Robbin A. F. B., A.F.L.C., Ga.		3	468+	

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Switching Office: Roscommon

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NORAD/SAGE

Central Office Code			536+	
Alpena, Mich.-FN		4	493-1+	
Empire A. F. S., Mich.-LRR	Iro-Rsc	4	494-4+	
Falconbridge RSI, Ont.-LRR	Iro-Rsc	4	494-2+	
K. I. Sawyer A. F. B., Mich.-FIS	Iro-Rsc	4	494-1+	
Port Austin A. F. S., Mich.-LRR	Iro-Rsc	4	494-3+	
Raco, Michigan-ROMARC	Iro-Rsc	4	494-5+	
S. S. Marie A. F. S., Mich.-LRR	Iro-Rsc	4	494-0+	
Selfridge A. F. B., Mich.-LRR/Detroit-				
Cleveland AADCP	Nor-Rsc	4	491-1+	
Wurtsmith, Mich.-FIS	Nor-Rsc	4	491-0+	

GENERAL AUTOVON

Central Office Code	722+
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Switching Office: San Luis Obispo

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NORAD/SAGE

Central Office Code			848+		
Cambria A. F. S., Calif.-LRR	Slo-Jul	4	778-1+	1	

GENERAL AUTOVON

Central Office Code			629+		
Naval Air Station, Lemoore, Calif.		3	949+	3,4	
Vandenburg A. F. B., Calif.		2	275+	1-7	
Vandenburg A. F. B., Calif.		2	276+	1-7	

OVERSEAS AUTOVON

Pre-Set Conference	Slo-Lod		595+		
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Switching Office: Santa Rosa

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NORAD/SAGE

Central Office Code			534+	
Hamilton A. F. B., Calif.-FIS	Sra-Lod	4	646-5+	
McClellan A. F. B., Calif.-FN	Sra-Lod	4	646-7+	
Mill Valley A. F. S., Calif.-LRR	Sra-Lod	4	646-6+	
Point Arena A. F. S., Calif.-LRR	Sra-Lod	4	646-0+	

GENERAL AUTOVON

Central Office Code		831+
Alameda, Calif.-N.A.S.	3	686+
Army Procurement Agency, Oakland, Calif.	3	993+
Hamilton A. F. B., Calif.	3	997+
Naval Fac. Eng. Cmd., San Bruno, Calif.	3	859+
Naval Hospital, Oakland, Calif.	3	855+
Naval Shipyard, Vallejo, Calif.	3	253+
Naval Station, Treasure Island, Calif.	3	869+
Naval Supply Center, Oakland, Calif.	3	836+
Oakland Army Term., Calif.	3	864+
Presidio of San Francisco, Calif.	3	586+
San Francisco Naval Shipyard, Calif.	3	799+
Travis A. F. B., Calif.	3	837+

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Switching Office: Seguin

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NORAD/SAGE

Central Office Code			984+		
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GENERAL AUTOVON

Central Office Code		729+		
Bergstrom A. F. B., Texas	3	685+	1-3	
Brooks A. F. B., Texas	3	240+	1-3	
Ellington A. F. B., Texas	3	954+	2	
Ft. Sam Houston, Texas	3	471+	1-7	
Kelly A. F. B., Texas	3	945+	1-8	
Lackland A. F. B., Texas	3	473+	1-5,7	
Laredo A. F. B., Texas	3	484+	1,2	
N. A. S., Chorpas Christi, Texas	3	861+	1-3	
Randolph A. F. B., Texas	3	487+	1-7	

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Switching Office: Sherbrooke

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NORAD/SAGE

Central Office Code			752+		
Bagotville, Que.-RIS	Sud-She	4	668-1+	1	
CFRC, Ottawa	Smf-She	3	262+	0-9	
Chatham, N. B.-RIS	Fre-She	1	428-5+	5	
Chibougamou ATN, Que.-Lyn	Sud-She	4	668-0+	0	
Goose Bay (Melville) ASN, Lab.-LHR	Fre-She	4	428-0+	0	
La Pl. Denis, Que.-LHR	Smf-She	4	269-1+	1	
Lamontville, Que.-ROMAR	Smf-She	4	269-2+	2	
Moisie PSI, Que.-LHR	Fre-She	4	428-1+	1	
Mont Apica PSI, Que.-LHR	Sud-She	4	668-2+	2	
Semeterre PSI, Que.-NCC	Smf-She	4	269-0+	0	

GENERAL AUTOVON

Central Office Code	621+
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Switching Office: Smith Falls

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NORAD/SAGE

Central Office Code			261+		
CFHC, Ottawa	Smf-She	3	262+	0-9	
Foymont RSI, Ont.-LRR	Sud-Smf	4	665-2+	2	
La. St. Denis, Que.-LRR	Smf-She	4	269-1+	1	
La. St. Denis, Que.-BOMARC	Smf-She	4	269-2+	2	
North Bay, Ont.-BOMARC	Sud-Smf	3	665-3+	3	
North Bay, Ont.-RCC	Sud-Smf	3	664+	0,3,4,7	
North Bay, Ont.-LRR	Sud-Smf	4	665-1+	1	
Leamington RSI, Que.-NCC	Smf-She	4	269-0+	0	

GENERAL AUTOVON

Central Office Code	827+
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Switching Office: Socorro

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NORAD/SAGE

Central Office Code			762+		
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GENERAL AUTOVON

Central Office Code		888+		
DASA Activities, Sandia Base, N. Mex.	3	829+	0-9	
Kirtland A. F. B., N. Mexico	3	946+	1-3	

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Switching Office: Stanfield

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NORAD/SAGE

Central Office Code			849+		
McIntire A. F. B., S. C.	Stn-Cha	4	652-2+	2	
New Hanover A. F. S., N. C.-FIS		5	655-1+	1	
No. Charleston A. F. S., S. C.-LRR	Stn-Cha	4	652-0+	0	

GENERAL AUTOVON

Central Office Code		630+		
Charleston Navy Base, S. C. (CTX)	3	794+	2-7	
Ft. Gordon, Augusta, Ga.	3	780+	1-7	
Ft. Jackson, Columbia, S. C.	3	734+	1-7	
Marine Corps Recruit Depot, Parris Island, N. C.	3	832+	1-6,9	
Myrtle Beach A. F. B., S. C.	3	748+	2,3	
Seymour Johnson A. F. B., N. C.	3	583+	5,6	
Shaw A. F. B., S. C.	3	965+	1-5,7	

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Switching Office: Stevens Point

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NORAD/SAGE

Central Office Code			760+		
Antigo A. F. S., Wisc.-IRR	Stv-Wyo	4	565-2+	2	
Chicago-Milwaukee AADCP	Nor-Stv	4	844-0+	0	
Duluth, Minn.-BOMARC	Stv-Wyo	4	565-3+	3	
Finland A. F. S., Minn.-IRR	Stv-Wyo	4	565-0+	0	
Oscoda A. F. S., Wisc.-IRR	Stv-Wyo	4	565-1+	1	
Traux Field, Wisc.-FIS	Nor-Stv	4	844-1+	1	
Volk Field, Wisc.-FW		4	495-0+	0	

GENERAL AUTOVON

Central Office Code		884			
Camp McCoy, Wisc.	3	280+	1-3		
K. I. Sawyer A. F. B., Mich.	3	344+	1,2		12-18-71
Mitchell Field, Wisc.	4	878:	9		
Savanna Army Depot, Savanna, Ill.	3	878+	1-4		

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Switching Office: Sudbury

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NORAD/SAGE

Central Office Code			774+		
Bagotville, Que.-FIS	Sud-She	4	668-1+	1	
Chibougamau ASN, Que.-LRR	Sud-She	4	668-0+	0	
Foymont RSI, Ont.-LRR	Sud-Smf	4	665-2+	2	
Mont Apica RSI, Que.-LRR	Sud-She	4	668-2+	2	
Moosonee ASN, Que.-LRR		4	669-0+	0	
North Bay, Ont.-BOMARC	Sud-Smf	3	665-3+	3	
North Bay, Ont.-RCC	Sud-Smf	3	664+	0,3,4,7	
Ramore RSI, Ont.-LRR	Sud-Smf	4	665-1+	1	

GENERAL AUTOVON

None

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Switching Office: Sweetwater

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NORAD/SAGE

Central Office Code			776+		
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GENERAL AUTOVON

Central Office Code		885+		
Altus A. F. B., Okla.	3	866+	1,6,7	
Cannon A. F. S., New Mexico	3	681+	1-3	
Carswell A. F. B., Texas	3	747+	1,5,7	
Laughlin A. F. B., Texas	3	732+	1,2	
OCD, Denton, Texas	4	838+	9	
Reese A. F. B., Texas	3	838+	1,2	
Sheppard A. F. B., Texas	3	736+	1,2,4,6	
Webb A. F. B., Texas	3	866+	0,2	

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Switching Office: Terre Haute

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NORAD/SAGE

None

GENERAL AUTOVON

Central Office Code		634+		
Chamute A. F. B., Ill.	3	862+	1-3	
Ft. Benjamin Harrison, Ind.	3	699+	1-3	
Granite City Army Depot, Ill.	4	947+	9	
Grissom A. F. B., Ill.	3	928+	2,3	
Joliet Arsenal, Ill.	3	947+	2-4	
Navy Ammo. Depot, Craine, Ind.	3	947-1+	1	12-4-71

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Switching Office: Thunder Bay

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NORAD/SAGE

Central Office Code			264+		
Armstrong RSI, Ont.-LRR		4	661-0+	0	
Calumet A. F. S., Mich.-NCC	Tby-Iro	4	421-1+	1	
Duluth A. F. S., Minn.-RCC	Whn-Tby	4	576-0+	0	
Lowther ASN, Ont.-LRR	Tby-Iro	4	421-0+	0	
Sioux Lookout RSI, Ont.-LRR	Whn-Tby	4	576-1+	1	

GENERAL AUTOVON

None

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Switching Office: Toledo Jct.

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NORAD/SAGE

Central Office Code			763+		
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GENERAL AUTOVON

Central Office Code			889+		
DCAS, Cleveland, Ohio	3		580+	2,4,5	
DCAS, Columbus, Ohio	3		850+	2,3	
Lockbourne A. F. B., Ohio	3		950+	1,3,4	

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Switching Office: Topaz Lake

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NORAD/SAGE

Central Office Code			769+		
Almaden A. F. S., Calif.-LRR	Lod-Top	4	644-0+	0	
Fallon A. F. S., Nev.-NCC	Lod-Top	4	644-1+	1	

GENERAL AUTOVON

Central Office Code		896+		
Sierra Army Depot, Herlong, Calif.		830+	2	

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Switching Office: Tully

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<u>NORAD/SAGE</u>					
Central Office Code			561+		
Benton A. F. S., Pa.-LRR	Tly-Pot	4	577-0+	0	
Burlington, Vt.-FIS	Tly-Che	5	337-0+	0	
Griffiss A. F. B., N. Y.-FIS	Tly-Che	4	337-1+	1	
Hancock Field, N. Y.-RCC	Tly-Che	4	337-5+	5	
Lockport A. F. S., N. Y.-LRR/Niagara BOMARC	Tly-Che	4	337-6+	6	
Saratoga Springs A. F. S., N. Y.-LRR	Tly-Che	4	337-4+	4	
St. Albans A. F. S., Vt.-LRR	Tly-Che	4	337-3+	3	
Watertown A. F. S., N. Y.-LRR	Tly-Che	4	337-2+	2	

GENERAL AUTOVON

Central Office Code		822+		
Griffis A. F. B., N. Y.	3	587+	1-4,6,7	
Hancock Field, Syracuse, N. Y.	4	587+	9	
Seneca Army Depot, N. Y.	4	489+	5,8	11-27-71

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Switching Office: Turquoise

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NORAD/SAGE

Central Office Code			667+		
Luke A. F. B., Ariz.-RCC	Apa-Tur	4	656-0+	0	
San Pedro Hill A. F. S., Calif.-LRR	Jul-Tur	4	672-0+	0	

GENERAL AUTOVON

Central Office Code		470+			
Marine Corps Supply Ctr., Calif.		3	282+	0-2,6	12-11-71
Nellis A. F. B., Nev.		3	682+	1-4	

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Switching Office: Wheatland

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NORAD/SAGE

Central Office Code			566+		
Baudette A. F. S., Minn.-NCC	Whn-Por	4	567-0+	0	
Beausejour RSI, Man.-LRR	Whn-Por	4	567-2+	2	
Duluth A. F. S., Minn.-RCC	Whn-Tby	4	576-0+	0	
Finley A. F. S., N. D.-LRR	Whn-Por	4	567-1+	1	
Grand Forks, N. D.-FIS	Whn-Por	5	567-3+	3	
Sioux Lookout RSI, Ont.-LRR	Whn-Tby	4	576-1+	1	

GENERAL AUTOVON

Central Office Code 871+

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Switching Office: Williamstown

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NORAD/SAGE

Central Office Code			981+		
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GENERAL AUTOVON

Central Office Code		726+		
Def. Elect. Sup. Ctr., Dayton, Ohio	3	989+	5,6	
DTS, Cincinnati, Ohio	3	989+	0,3	
Ft. Knox, Kentucky	3	464+	0-8	
Jefferson Proving Grounds, Ind.	3	480+	1,3-5	
Lexington Army Depot, Ky.	3	745+	1,3,7	
Wright-Patterson A. F. B., Ohio	2	782+	1	
Wright-Patterson A. F. B., Ohio	2	785+	1-5	
Wright-Patterson A. F. B., Ohio	2	787+	0-7	

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Switching Office: Wyoming

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NORAD/SAGE

Central Office Code			754+		
Antigo A. F. S., Wisc.-LRR	Stv-Wyo	4	565-2+	2	
Duluth, Minn.-BOMARC	Stv-Wyo	4	565-3+	3	
Finland A. F. S., Minn.-LRR	Stv-Wyo	4	565-0+	0	
Osceola A. F. S., Wisc.-LRR	Stv-Wyo	4	565-1+	1	

GENERAL AUTOVON

Central Office Code			897+		
DCASD, Twin Cities, Minn.		3	825-3+	3	1-15-72
Nekoma, N. D.		4	825-9+	9	

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Switching Office: Yakima

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NORAD/SAGE

Central Office Code			533+
ATSS (3 Digit No.'s)	Yak-Hel	4	325+
ATSS (7 Digit No.'s)	Yak-Hel	3	907+
Beaver Lodge, Alta.-LRR	Han-Yak	4	334-1+
Kamloops RSI, B. C.-LRR	Han-Yak	4	334-3+
Keno A. F. S., Ore.-NCC	Med-Yak	4	841-0+
Klamath A. F. S., Calif.-LRR	Med-Yak	4	841-2+
McChord A. F. B., Wash.-FIS	Nbw-Yak	5	670-6+
Mica Peak A. F. S., Wash.-LRR	Nbw-Yak	5	670-0+
Mt. Hebo A. F. S., Ore.-LRR	Nbw-Yak	4	670-7+
North Bend A. F. S., Ore.-LRR	Med-Yak	4	841-1+
Othello A. F. S., Wash.-NCC	Nbw-Yak	4	670-8+
Pedro Dome, Alaska (V.A.)	Yak-Hel	4	210+
Portland, Ore.-FN	Nbw-Yak	4	670-9+
Seattle AADCP	Nbw-Yak	4	670-4+
Walla Walla, Wash.-DISP		4	674-4+

GENERAL AUTOVON

Central Office Code	554+
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APACHE JUNCTION (24)

Norad/Sage: 845
General Autovon: 361, 474, 626, 853, 879

ARLINGTON (02)

Norad/Sage:
General Autovon: 221, 251, 281 (eff. 1-3-72), 286, 287, 292 (eff. 12-5-71),
293, 294, 295, 296, 297, 346 (eff. 11-15-71), 354, 851,
858, 991

BOONE (38)

Norad/Sage: 496
General Autovon: 433, 793

BREWTON (04)

Norad/Sage: 755
General Autovon: 254, 255, 363, 436, 558, 868, 872, 922, 970

C. M. C. (07)

Norad/Sage: 321, 529
General Autovon: 834

CEDAR BROOK (35)

Norad/Sage: 676, 756
General Autovon: 234, 348 (eff. 11-15-71), 440, 441, 442, 443, 444, 445,
624, 637, 870, 944, 992, 995, 996, 998

CHARLOTTESVILLE (05)

Norad/Sage: 574, 657
General Autovon: 934

CHATHAM (06)

Norad/Sage: 575
General Autovon: 236, 486, 935

CHESHIRE (39)

Norad/Sage: 846
General Autovon: 241, 627, 636

CHESTERFIELD (25)

Norad/Sage: 767
General Autovon: 589, 689 (eff. 1-10-72), 893, 974

COLORADO SPRINGS (08)

Norad/Sage: 521
General Autovon: 259, 481, 553, 555, 556, 691, 692, 926, 943

DELTA (40)

Norad/Sage: 764
General Autovon: 789, 790, 890, 924

DOVER-FOXCROFT (41)

Norad/Sage: 847
General Autovon: 476, 628, 920

DRANESVILLE (42)

Norad/Sage:
General Autovon: 249, 278, 356, 359, 725

ELLISVILLE (43)

Norad/Sage: 497
General Autovon: 434, 460, 559, 860, 942, 971
Overseas Autovon: 313*, 413*, 713*, 593

ENNIS (09)

Norad/Sage: 527
General Autovon: 483, 733, 737, 940

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Norad/Sage: 771
General Autovon: 258, 749, 867, 978, 979

FAIRVIEW (45)

Norad/Sage: 761
General Autovon: 552, 720, 856, 886, 975

FREDERICTON (47)

Norad/Sage: 260
General Autovon: 622

GLENDIVE (03)

Norad/Sage: 569, 753
General Autovon: 783, 823

HAGERSTOWN (12)

Norad/Sage: 572
General Autovon: 242, 277, 936

HANEY (49)

Norad/Sage: 772
General Autovon:

HELENA (50)

Norad/Sage: 983
General Autovon: 728, 857

HILLSBORO (13)

Norad/Sage: 422**, 424**, 522
General Autovon: 631, 638, 693, 698, 969*

* Each office to route only originating General Autovon Automatic Conference, and Off-Hook class of service to code 969. Tandem calls are permitted access to code 969.

** Each office to route only originating Norad/Sage Automatic Conference, and Off-Hook class of service to codes 422 and 424. Tandem calls are permitted access to codes 422 and 424.

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IRON MOUNTAIN (14)

Norad/Sage: 651

General Autovon:

JASPER (15)

Norad/Sage: 758

General Autovon: 477, 557, 635, 694 (eff. 11-15-71), 742, 746, 865, 882

JULIAN (01)

Norad/Sage: 982

General Autovon: 283, 727, 899, 933, 951, 952, 957, 958, 959

LAMAR (16)

Norad/Sage: 751

General Autovon: 877, 887

LEESBURG (17)

Norad/Sage: 573

General Autovon: 937

LETHBRIDGE (51)

Norad/Sage: 323, 775

General Autovon: 243

LITTLETON (18)

Norad/Sage: 757

General Autovon: 256, 478, 684, 743, 795, 852, 881, 948, 955

LODI (52)

Norad/Sage: 985

General Autovon: 462, 479, 633, 730, 828, 839, 973

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LYONS (53)

Norad/Sage:

General Autovon: 939

MEDFORD (19)

Norad/Sage: 447

General Autovon: 620

MEMPHIS JUNCTION (54)

Norad/Sage: 498

General Autovon: 435, 738, 966

MOJAVE (20)

Norad/Sage: 770

General Autovon: 350, 353, 360, 833, 873, 876, 898, 972

MONROVIA (21)

Norad/Sage: 331, 525

General Autovon: 231, 233, 235, 246, 343, 469*, 584, 923, 977, 988

MOSELEY (55)

Norad/Sage: 563

General Autovon: 274, 279, 432, 680, 687, 690, 695, 723, 927, 953, 961

MOUNDS (22)

Norad/Sage: 759

General Autovon: 582, 639, 735, 883, 956, 962

NETCONG (56)

Norad/Sage: 535

General Autovon: 232, 247, 688 (eff. 11-30-71), 740, 796, 880, 938, 994

* Each office to route only originating class of service SF, SG, SH, SJ, and SK to code 469. Tandem calls are permitted access to code 469.

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NORTH BEND (57)

Norad/Sage: 765

General Autovon: 352, 357, 358, 439, 744, 820, 891, 941, 976

NORWAY (23)

Norad/Sage: 523

General Autovon: 551, 792, 930, 932

PARMA (58)

Norad/Sage:

General Autovon: 273, 369, 798, 892

PICKENS (59)

Norad/Sage: 499

General Autovon: 437, 463, 488, 683

POLK CITY (60)

Norad/Sage: 768

General Autovon: 341 (eff. 2-14-72), 791, 854, 894, 968

PORTAGE (61)

Norad/Sage: 324, 571

General Autovon: 248

POTTSTOWN (99)

Norad/Sage: 777

General Autovon: 895

REGINA (62)

Norad/Sage: 579

General Autovon:

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ROCKDALE (26)

Norad/Sage: 526
General Autovon: 431, 468

ROSCOMMON (27)

Norad/Sage: 493, 536
General Autovon: 722

SAN LUIS OBISPO (63)

Norad/Sage: 848
General Autovon: 275, 276, 629, 949

SANTA ROSA (29)

Norad/Sage: 534
General Autovon: 253, ⁵⁸⁶486, 686, 799, 831, 836, 837, 855, 859, 864,
869, 993, 997

SEGUIN (64)

Norad/Sage: 984
General Autovon: 240, 471, 473, 484, 487, 685, 729, 861, 945, 954

SHERBROOKE (65)

Norad/Sage: 752
General Autovon: 621

SMITH FALLS (66)

Norad/Sage: 261
General Autovon: 827

SOCORRO (31)

Norad/Sage: 762
General Autovon: 829, 888, 946

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STANFIELD (67)

Norad/Sage: 655, 849

General Autovon: 583, 630, 734, 748, 780, 794, 832, 965

STEVENS POINT (32)

Norad/Sage: 495, 760

General Autovon: 280, 344 (eff. 12-13-71), 878, 884

SUDBURY (68)

Norad/Sage: 669, 774

General Autovon:

SWEETWATER (33)

Norad/Sage: 776

General Autovon: 681, 732, 736, 747, 838, 866, 885

TERRE HAUTE (69)

Norad/Sage:

General Autovon: 634, 699, 862, 928, 947

THUNDER BAY (46)

Norad/Sage: 264, 661

General Autovon:

TOLEDO JUNCTION (37)

Norad/Sage: 763

General Autovon: 580, 850, 889, 950

TOPAZ LAKE (70)

Norad/Sage: 769

General Autovon: 830, 896

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TULLY (34)

Norad/Sage: 561

General Autovon: 489 (eff. 11-22-71), 587, 822

TURQUOISE (71)

Norad/Sage: 667

General Autovon: 282 (eff. 12-6-71), 470, 682

WHEATLAND (10)

Norad/Sage: 566

General Autovon: 871

WILLIAMSTOWN (73)

Norad/Sage: 981

General Autovon: 464, 480, 726, 745, 782, 785, 787, 989

WYOMING (74)

Norad/Sage: 754

General Autovon: 825, 897

YAKIMA (36)

Norad/Sage: 533, 674

General Autovon: 554

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APACHE JUNCTION-TURQUOISE

Norad/Sage: 656

General Autovon:

ARLINGTON-DRANESVILLE

Norad/Sage:

General Autovon: 222, 223, 224, 225, 227, 284, 289

ARLINGTON-MONROVIA

Norad/Sage:

General Autovon: 964

BREWTON-JASPER

Norad/Sage:

General Autovon: 875

BREWTON-ROCKDALE

Norad/Sage: 645

General Autovon:

CEDAR BROOK-POTTSTOWN

Norad/Sage: 666

General Autovon:

Overseas Autovon: 314*, 414*, 714*, 594

CHARLOTTESVILLE-CHATHAM

Norad/Sage: 659

General Autovon:

* 10 Digit Code

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CHARLOTTESVILLE-CHATHAM-LEESBURG

Norad/Sage: 332

General Autovon:

CHARLOTTESVILLE-LEESBURG

Norad/Sage: 654

General Autovon:

DELTA-LAMAR

Norad/Sage:

General Autovon: 929

DOVER FOXCROFT-FREDERICTON

Norad/Sage: 423

General Autovon:

DRANESVILLE-MONROVIA

Norad/Sage:

General Autovon: 370 to 399, 540 to 549, 963

ELLSVILLE-POIK CITY

Norad/Sage: 641

General Autovon:

FAIRVIEW-LYONS

Norad/Sage:

General Autovon: 271, 960

FREDERICTON-SHERBROOKE

Norad/Sage: 428

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GLENDIVE-HELENA

Norad/Sage: 427

General Autovon:

GLENDIVE-LETHBRIDGE

Norad/Sage: 429

General Autovon:

GLENDIVE-PORTRAGE

Norad/Sage:

General Autovon:

GLENDIVE-REGINA

Norad/Sage: 653

General Autovon:

GLENDIVE-WHEATLAND

Norad/Sage:

General Autovon:

HANEY-NORTH BEND

Norad/Sage: 490

General Autovon:

HANEY-YAKIMA

Norad/Sage: 334

General Autovon:

HELENA-LETHBRIDGE

Norad/Sage: 267

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IRON MOUNTAIN-ROSCOMMON

Norad/Sage: 494

General Autovon:

JULIAN-MOJAVE

Norad/Sage: 660

General Autovon:

JULIAN-TURQUOISE

Norad/Sage: 672

General Autovon:

LEESBURG-HAGERS TOWN

Norad/Sage: 662

General Autovon:

LETHBRIDGE-REGINA

Norad/Sage: 531

General Autovon:

LITTLETON-CHESTERFIELD

Norad/Sage: 843

General Autovon:

LITTLETON-DOVER FOXCROFT

Norad/Sage: 649

General Autovon:

LODI-TOPAZ LAKE

Norad/Sage: 644

General Autovon:

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MEDFORD-NORTH BEND

Norad/Sage: 779

General Autovon:

MEDFORD-YAKIMA

Norad/Sage: 841

General Autovon:

NORTH BEND-HELENA

Norad/Sage:

General Autovon: 317*

NORTH BEND-YAKIMA

Norad/Sage: 670

General Autovon:

NORWAY-ROSCOMMON

Norad/Sage: 491

General Autovon:

NORWAY-STEVEENS POINT

Norad/Sage: 844

General Autovon:

ROCKDALE-ELLISVILLE

Norad/Sage: 265

General Autovon:

SAN LUIS OBISPO-JULIAN

Norad/Sage: 778

General Autovon:

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SAN LUIS OBISPO-LODI

Norad/Sage:

General Autovon:

Overseas Autovon: 315*, 415*, 715*, 595

SANTA ROSA-LODI

Norad/Sage: 646

General Autovon:

SMITH FALLS-SHERBROOKE

Norad/Sage: 262, 269

General Autovon:

STANFIELD-CHATHAM

Norad/Sage: 652

General Autovon:

STEVENS POINT-WYOMING

Norad/Sage: 565

General Autovon:

SUDEBURY-SHERBROOKE

Norad/Sage: 668

General Autovon:

SUDEBURY-SMITH FALLS

Norad/Sage: 664, 665

General Autovon:

THUNDER BAY-IRON MOUNTAIN

Norad/Sage: 421

General Autovon:

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TULLY-CHESTERFIELD

Norad/Sage: 337

General Autovon:

TULLY-POTTSTOWN

Norad/Sage: 577

General Autovon:

WHEATLAND-PORTAGE

Norad/Sage: 567

General Autovon:

WHEATLAND-THUNDER BAY

Norad/Sage: 576

General Autovon:

YAKIMA-HELENA

Norad/Sage: 325, 210*, 907*

General Autovon:

* 10 Digit Code

NNX CODE	NET- WORK	OFFICE	NNX CODE	NET- WORK	OFFICE
200			250	GA	
201			251	GA	Arl
202			252	GA	
203			253	GA	Sra
204			254	GA	Bre
205			255	GA	Bre
206			256	GA	Lit
207			257	GA	
208			258	GA	Fai
209			259	GA	Col
210	N/S	Yak-Hel	260	N/S	Fre
211			261	N/S	Smf
212			262	N/S	Smf-She
213			263	N/S	
214			264	N/S	Tby
215			265	N/S	Roc-Ell
216			266	N/S	
217			267	N/S	Hel-Let
218			268	N/S	
219			269	N/S	Smf-She
220	GA		270	GA	
221	GA	Arl	271	GA	Fvw-Lyo
222	GA	Arl-Dra	272	GA	
223	GA	Arl-Dra	273	GA	Par
224	GA	Arl-Dra	274	GA	Mos
225	GA	Arl-Dra	275	GA	Slo
226	GA		276	GA	Slo
227	GA	Arl-Dra	277	GA	Hag
228	GA		278	GA	Dra
229	GA		279	GA	Mos
230	GA		280	GA	Stv
231	GA	Mon	281	GA	Arl (eff. 1-3-72)
232	GA	Ntg	282	GA	Tur (eff. 12-6-71)
233	GA	Mon	283	GA	Jul
234	GA	Ced	284	GA	Arl-Dra
235	GA	Mon	285	GA	
236	GA	Cha	286	GA	Arl
237	GA		287	GA	Arl
238	GA		288	GA	
239	GA		289	GA	Arl-Dra
240	GA	Seg	290	GA	
241	GA	Cse	291	GA	
242	GA	Hag	292	GA	Arl (eff. 12-5-71)
243	GA	Let	293	GA	Arl
244	GA		294	GA	Arl
245	GA		295	GA	Arl
246	GA	Mon	296	GA	Arl
247	GA	Ntg	297	GA	Arl
248	GA	Por	298	GA	
249	GA	Dra	299	GA	

NNX CODE	NET- WORK	OFFICE	NNX CODE	NET- WORK	OFFICE
300			350	GA	MOJ
301			351	GA	
302			352	GA	Nbw
303			353	GA	Moj
304			354	GA	Arl
305			355	GA	
306			356	GA	Dra
307			357	GA	Nbw
308			358	GA	Nbw
309			359	GA	Dra
310			360	GA	Moj
311			361	GA	Apa
312			362	GA	
313	OA	Ell	363	GA	Bre
314	OA	Ced-Pot	364	GA	
315	OA	Slo-Lod	365	GA	
316			366	GA	
317	GA	Nbw-Hel	367	GA	
318			368	GA	
319			369	GA	Par
320	N/S		370	GA	Dra-Mon
321	N/S	CMC	371	GA	Dra-Mon
322	N/S		372	GA	Dra-Mon
323	N/S	Let	373	GA	Dra-Mon
324	N/S	Por	374	GA	Dra-Mon
325	N/S	Yak-Hel	375	GA	Dra-Mon
326	N/S		376	GA	Dra-Mon
327	N/S		377	GA	Dra-Mon
328	N/S		378	GA	Dra-Mon
329	N/S		379	GA	Dra-Mon
330	N/S		380	GA	Dra-Mon
331	N/S	Mon	381	GA	Dra-Mon
332	N/S	Chv-Cha-Lee	382	GA	Dra-Mon
333	N/S		383	GA	Dra-Mon
334	N/S	Han-Yak	384	GA	Dra-Mon
335	N/S		385	GA	Dra-Mon
336	N/S		386	GA	Dra-Mon
337	N/S	Tly-Che	387	GA	Dra-Mon
338	N/S		388	GA	Dra-Mon
339	N/S		389	GA	Dra-Mon
340	GA		390	GA	Dra-Mon
341	GA	Pol (eff. 2-14-72)	391	GA	Dra-Mon
342	GA		392	GA	Dra-Mon
343	GA	Mon	393	GA	Dra-Mon
344	GA	Stv (eff. 12-13-71)	394	GA	Dra-Mon
345	GA		395	GA	Dra-Mon
346	GA	Arl (eff. 11-15-71)	396	GA	Dra-Mon
347	GA		397	GA	Dra-Mon
348	GA	Ced (eff. 11-15-71)	398	GA	Dra-Mon
349	GA		399	GA	Dra-Mon

NNX CODE	NET- WORK	OFFICE	NNX CODE	NET- WORK	OFFICE
400			450	GA	
401			451	GA	
402			452	GA	
403			453	GA	
404			454	GA	
405			455	GA	
406			456	GA	
407			457	GA	
408			458	GA	
409			459	GA	
410	OA		460	GA	Ell
411	OA		461	GA	
412	OA		462	GA	Lod
413	OA	Ell	463	GA	Pic
414	OA	Ced-Pot	464	GA	Wil
415	OA	Slo-Lod	465	GA	
416	OA		466	GA	
417	OA		467	GA	
418	OA		468	GA	Roc
419	OA		469	GA	Mon
420	N/S		470	GA	Tur
421	N/S	Tby-Iro	471	GA	Seg
422	N/S	Hil	472	GA	
423	N/S	Dov-Fre	473	GA	Seg
424	N/S	Hil	474	GA	Apa
425	N/S		475	GA	
426	N/S		476	GA	Dov
427	N/S	Gle-Hel	477	GA	Jas
428	N/S	Fre-She	478	GA	Lit
429	N/S	Gle-Let	479	GA	Lod
430	GA		480	GA	Wil
431	GA	Roc	481	GA	Col
432	GA	Mos	482	GA	
433	GA	Bne	483	GA	Eon
434	GA	Ell	484	GA	Seg
435	GA	Mem	485	GA	
436	GA	Bre	486	GA	Cha
437	GA	Pic	487	GA	Seg
438	GA		488	GA	Pic
439	GA	Nbw	489	GA	Tly (eff. 11-22-71)
440	GA	Ced	490	N/S	Han-Nbw
441	GA	Ced	491	N/S	Nor-Rsc
442	GA	Ced	492	N/S	
443	GA	Ced	493	N/S	Rsc
444	GA	Ced	494	N/S	Iro-Rsc
445	GA	Ced	495	N/S	Stv
446			496	N/S	Bne
447	N/S	Med	497	N/S	Ell
448			498	N/S	Mem
449	N/S		499	N/S	Pic

NNX CODE	NET- WORK	OFFICE	NNX CODE	NET- WORK	OFFICE
500			550	GA	
501			551	GA	Nor
502			552	GA	Fvw
503			553	GA	Col
504			554	GA	Yak
505			555	GA	Col
506			556	GA	Col
507			557	GA	Jas
508			558	GA	Bre
509			559	GA	Ell
510			560	GA	
511			561	N/S	Tly
512			562	N/S	
513			563	N/S	Mos
514			564	N/S	
515			565	N/S	Stv-Wyo
516			566	N/S	Whn
517			567	N/S	Whn-Por
518			568	N/S	
519			569	N/S	Gle
520	OA		570	OA	
521	N/S	Col	571	N/S	Por
522	N/S	Hil	572	N/S	Hag
523	N/S	Nor	573	N/S	Lee
524	N/S		574	N/S	Chv
525	N/S	Mon	575	N/S	Cha
526	N/S	Roc	576	N/S	Whn-Tby
527	N/S	Enn	577	N/S	Tly-Pot
528	N/S		578	N/S	
529	N/S	CMC	579	N/S	Reg
530	N/S		580	GA	Tol
531	N/S	Let-Reg	581	GA	
532	N/S		582	GA	Mou
533	N/S	Yak	583	GA	Stn
534	N/S	Sra	584	GA	Mon
535	N/S	Ntg	585	GA	
536	N/S	Rsc	586	GA	Sra
537	N/S		587	GA	Tly
538	N/S		588	GA	
539	N/S		589	GA	Che
540	GA	Dra-Mon	590	OA	
541	GA	Dra-Mon	591	OA	
542	GA	Dra-Mon	592	OA	
543	GA	Dra-Mon	593	OA	Ell
544	GA	Dra-Mon	594	OA	Ced-Pot
545	GA	Dra-Mon	595	OA	Slo-Lod
546	GA	Dra-Mon	596	OA	
547	GA	Dra-Mon	597	OA	
548	GA	Dra-Mon	598	OA	
549	GA	Dra-Mon	599	OA	

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600			650	N/S	
601			651	N/S	Iro
602			652	N/S	Stn-Cha
603			653	N/S	Gle-Reg
604			654	N/S	Chv-Lee
605			655	N/S	Stn
606			656	N/S	Apa-Tur
607			657	N/S	Chv
608			658	N/S	
609			659	N/S	Chv-Cha
610			660	N/S	Jul-Moj
611			661	N/S	Tby
612			662	N/S	Lee-Hag
613			663	N/S	
614			664	N/S	Sud-Smf
615			665	N/S	Sud-Smf
616			666	N/S	Ced-Pot
617			667	N/S	Tur
618			668	N/S	Sud-She
619			669	N/S	Sud
620	GA	Med	670	N/S	Nbw-Yak
621	GA	She	671	N/S	
622	GA	Bra	672	N/S	Jul-Tur
623	GA		673	N/S	
624	GA	Ced	674	N/S	Yak
625	GA		675	N/S	
626	GA	Apa	676	N/S	Ced
627	GA	Cse	677	N/S	
628	GA	Dov	678	N/S	
629	GA	Slo	679	N/S	
630	GA	Stn	680	GA	Mos
631	GA	Hil	681	GA	Swe
632	GA		682	GA	Tur
633	GA	Lod	683	GA	Pic
634	GA	Ter	684	GA	Lit
635	GA	Jas	685	GA	Seg
636	GA	Cse	686	GA	Sra
637	GA	Ced	687	GA	Mos
638	GA	Hil	688	GA	NTG (eff. 11-30-71)
639	GA	Mou	689	GA	CHE (eff. 1-10-72)
640	N/S		690	GA	Mos
641	N/S	Ell-Pol	691	GA	Col
642	N/S		692	GA	Col
643	N/S		693	GA	Hil
644	N/S	Lod-Top	694	GA	Jas (eff. 11-15-71)
645	N/S	Bre-Roc	695	GA	Mos
646	N/S	Sra-Lod	696	GA	
647	N/S		697	GA	
648	N/S		698	GA	Hil
649	N/S	Lit-Doy	699	GA	Ter

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700			750	N/S	
701			751	N/S	Lam
702			752	N/S	She
703			753	N/S	Gle
704			754	N/S	Wyo
705			755	N/S	Bre
706			756	N/S	Ced
707			757	N/S	Lit
708			758	N/S	Jas
709			759	N/S	Mou
710	OA		760	N/S	Stv
711	OA		761	N/S	Fvw
712	OA		762	N/S	Soc
713	OA	Ell	763	N/S	Tol
714	OA	Ced-Pot.	764	N/S	Del
715	OA	Slo-Lod	765	N/S	Nbw
716	OA		766	N/S	
717	OA		767	N/S	Che
718	OA		768	N/S	Pol
719	OA		769	N/S	Top
720	GA	Fvw	770	N/S	Moj
721	GA	Sec	771	N/S	Fai
722	GA	Rsc	772	N/S	Han
723	GA	Mos	773	N/S	
724	GA		774	N/S	Sud
725	GA	Dra	775	N/S	Let
726	GA	Wil	776	N/S	Swe
727	GA	Jul	777	N/S	Pot
728	GA	Hel	778	N/S	Slo-Jul
729	GA	Seg	779	N/S	Med-Nbw
730	GA	Lod	780	GA	Stn
731	GA		781	GA	
732	GA	Swe	782	GA	Wil
733	GA	Enn	783	GA	Gle
734	GA	Stn	784	GA	
735	GA	Mou	785	GA	Wil
736	GA	Swe	786	GA	
737	GA	Enn	787	GA	Wil
738	GA	Mem	788	GA	
739	GA		789	GA	Del
740	GA	Ntg	790	GA	Del
741	GA		791	GA	Pol
742	GA	Jas	792	GA	Nor
743	GA	Lit	793	GA	Bne
744	GA	Nbw	794	GA	Stn
745	GA	Wil	795	GA	Lit
746	GA	Jas	796	GA	Ntg
747	GA	Swe	797	GA	
748	GA	Stn	798	GA	Par
749	GA	Fai	799	GA	Sra

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800			850	GA	Tol
801			851	GA	Arl
802			852	GA	Lit
803			853	GA	Apa
804			854	GA	Pol
805			855	GA	Sra
806			856	GA	Fvw
807			857	GA	Hel
808			858	GA	Arl
809			859	GA	Sra
810			860	GA	Ell
811			861	GA	Seg
812			862	GA	Ter
813			863	GA	
814			864	GA	Sra
815			865	GA	Jas
816			866	GA	Swe
817			867	GA	Fai
818			868	GA	Bre
819			869	GA	Sra
820	GA	Nbw	870	GA	Ced
821	GA		871	GA	Whn
822	GA	Fly	872	GA	Bre
823	GA	Gle	873	GA	Moj
824	GA		874	GA	
825	GA	Wyo	875	GA	Bre-Jas
826	GA		876	GA	Moj
827	GA	Smf	877	GA	Lam
828	GA	Lod	878	GA	Stv
829	GA	Soc	879	GA	Apa
830	GA	Top	880	GA	Ntg
831	GA	Sra	881	GA	Lit
832	GA	Stn	882	GA	Jas
833	GA	Moj	883	GA	Moj
834	GA	CMC	884	GA	Stv
835	GA		885	GA	Swe
836	GA	Sra	886	GA	Fvw
837	GA	Sra	887	GA	Lam
838	GA	Swe	888	GA	Soc
839	GA	Lod	889	GA	Tol
840	N/S		890	GA	Del
841	N/S	Med-Yak	891	GA	Nbw
842	N/S		892	GA	Par
843	N/S	Lit-Che	893	GA	Che
844	N/S	Nor-Stv	894	GA	Pol
845	N/S	Apa	895	GA	Pot
846	N/S	Cse	896	GA	Top
847	N/S	Dor	897	GA	Wyo
848	N/S	Slo	898	GA	Moj
849	N/S	Stn	899	GA	Jul

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CODE ASSIGNMENT

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NNX CODE	NET- WORK	OFFICE	NNX CODE	NET- WORK	OFFICE
900			950	GA	Tol
901			951	GA	Jil
902			952	GA	Jul
903			953	GA	MOS
904			954	GA	Seg
905			955	GA	Lit
906			956	GA	Mou
907	N/S	Yak-Hel	957	GA	Jil
908			958	GA	Jul
909			959	GA	Jul
910			960	GA	Fvw-Lyo
911			961	GA	Mos
912			962	GA	Mou
913			963	GA	Dra-Mon
914			964	GA	Arl-Mon
915			965	GA	Stn
916			966	GA	Mem
917			967	GA	
918			968	GA	Pol
919			969	GA	Hil
920	GA	Dov	970	GA	Bre
921	GA		971	GA	Ell
922	GA	Bre	972	GA	Moj
923	GA	Mon	973	GA	Lod
924	GA	Del	974	GA	Chc
925	GA		975	GA	Fvw
926	GA	Col	976	GA	Nbw
927	GA	Mos	977	GA	Mon
928	GA	Ter	978	GA	Fai
929	GA	Del-Lam	979	GA	Fai
930	GA	Nor	980		
931	GA		981	N/S	Wil
932	GA	Nor	982	N/S	Jul
933	GA	Jul	983	N/S	Hel
934	GA	Chv	984	N/S	Seg
935	GA	Cha	985	N/S	Lod
936	GA	Hac	986		
937	GA	Lee	987		
938	GA	Ntg	988	GA	Mon
939	GA	Lyo	989	GA	Wil
940	GA	Enn	990		
941	GA	Nbw	991	GA	Arl
942	GA	Ell	992	GA	Ced
943	GA	Col	993	GA	Sra
944	GA	Ced	994	GA	Ntg
945	GA	Seg	995	GA	Ced
946	GA	Soc	996	GA	Ced
947	GA	Ter	997	GA	Sra
948	GA	Lit	998	GA	Ced
949	GA	Sto	999		

5D SWITCHBOARD TRUNKING ARRANGEMENTS

The following new trunking arrangements have been made available for use at offices equipped with 5D switchboards to provide simplified switchboard operation, improved echo suppressor control, and operation with multilevel pre-emption.

A. Operator Trunk Circuit

A new operator trunk circuit per SD-27733-01 for completing assistance ("0") calls from a trunk link frame appearance to a 5D switchboard in the same building has been made available. The circuit is arranged for the following features:

1. Completion of calls originating in the same office on a subscriber outgoing (SOG) switched basis.
2. Completion of calls originating in remote offices, via intertoll trunks, on a tandem switched basis.
3. Separate switchboard lamps to indicate whether the local originating calls are from 4-wire stations or from 2-wire PBX's.
4. Return answer supervision when the 5D operator answers.
5. A calling customer terminated on a serving 5D office may signal the operator on a flashing recall basis (120 ipm on cord light) by a switch book flash of approximately 0.38 to 1.9 seconds. This feature will be available for customer homed on ESS machines when the ESS is provided with the AV3 retrofit. Flashing recall is not available to customers on a 4W#5 not equipped with 5D switchboards.
6. A disconnect by the calling customer will release the linkage and light the cord supervisory lamp as a disconnect signal to the operator.
7. If the intertoll trunk or the calling line or LUNK is preempted, the switchboard cord lamp will flash at 120 ipm and preempt notification tone will be transmitted toward the switchboard. After answering and recognizing a preempt signal, the operator should disconnect from the trunk and if the called party has not disconnected, notify him that the call has been preempted.

B. Operator Tandem Trunk

A new operator tandem trunk per SD-27732-01 is provided for completing calls from a 5D switchboard in the same building to lines via a trunk link frame appearance and to intertoll trunks or to LUNKS via a line link frame appearance. The circuit is arranged from the following features:

1. Multifrequency 2/6 pulsing to incoming registers.
2. Answer supervision is returned to the 5D switchboard during the time the called party remains off-hook.
3. On line busy conditions, 60 ipm tone is returned to the switchboard only on P-4 calls. Precedence (P-0 - P-3) will return preempt line busy announcement.
4. On overflow conditions, 120 ipm tone is returned to the switchboard only on P-4 calls. Precedence (P-0 - P-3) will return preempt no circuit announcement.
5. If a circuit on an established connection (auxiliary line, LUNK, or intertoll trunk) is preempted, the connection forward will be released, the cord supervisory lamp will light, and preempt notification tone will be transmitted by the operator tandem trunk toward the switchboard. A lit cord supervisory lamp signals the operator to disconnect when a called connection has been preempted or which a called party goes on-hook.
6. The trunk is arranged for use with controllable echo suppressors.

C. Operator Listed Directory Number Trunk

A new operator listed directory number trunk circuit per SD-27747-01 for completing calls from a distant Autovon Switching Center to a 5D switchboard has been made available. The circuit is arranged for the following features:

1. Return answer supervision when the 5D operator answers.
2. A disconnect by the calling customer will release the connected intertoll or intraoffice trunk which in turn will release the linkage and light the cord supervisory lamp as a disconnect signal to the operator.

3. If a circuit on an established connection is preempted, the cord supervisory lamp will light and preempt notification tone will be transmitted toward the switchboard. A lit cord supervisory lamp signals the operator to disconnect when a connection has been preempted or when a calling party has disconnected.

D. 5D Operator Features for General Autovon

1. The 5D operator will not be allowed to originate or terminate off-hook service (CCU5 or 6).
2. The 5D operator will be allowed to upgrade all precedence levels (P-4 to P-0).
3. The 5D operator will be allowed access to the Automatic Conference Equipment (ACE).
4. There is no requirement to protect a non-precedence line that dials "0" operator from being pre-empted. The 5D operator will call the originating subscriber back with a precedence level for this protection.
5. The 5D operator is permitted to call General Autovon codes only.
6. The 5D operator has no abbreviated dial capability.
7. The 5D operator will be allowed to complete all overseas GA NPA's.

E. Remote Dial "0" Operation

The homing arrangements for offices that do not have 5D Boards and serve General Autovon are as follows:

<u>Office</u>	<u>Type</u>	<u>Serving 5D Office</u>
Apache Jct.	ESS	San Luis Obispo
Arlington	4W#5	Monrovia
Boone	ESS	Monrovia
Brewton	ESS	Polk City
Cedar Brook	ESS	Monrovia
Charlottesville	ESS	Monrovia
Chatham	ESS	Monrovia
Cheshire	ESS	Monrovia

5D SWITCHBOARD TRUNKING ARRANGEMENTS

<u>Office</u>	<u>Type</u>	<u>Serving 5D Office</u>
Chesterfield	ESS	Monrovia
Colorado Springs	4W#5	San Luis Obispo
Delta	AE	San Luis Obispo
Dover-Foxcroft	ESS	Monrovia
Dranesville	ESS	Monrovia
Ellisville	ESS	Polk City
Ennis	4W#5	Polk City
Fairacres	ESS	San Luis Obispo
Fairview	AE	San Luis Obispo
Frederickton	C ESS	No 5D access
Glendive	AE	San Luis Obispo
Hagerstown	ESS	Monrovia
Haney	C AE	No 5D access
Helena	ESS	San Luis Obispo
Hillsboro	4W#5	Polk City
Iron Mountain	ESS	No 5D access
Jasper	ESS	Polk City
Julian	ESS	San Luis Obispo
Lamar	ESS	San Luis Obispo
Leesburg	ESS	Monrovia
Lethbridge	C AE	No 5D access
Littleton	ESS	Monrovia
Lodi	ESS	San Luis Obispo
Lyons	ESS	San Luis Obispo
Medford	ESS	San Luis Obispo
Memphis Jct.	ESS	Polk City
Mojave	ESS	San Luis Obispo
Monrovia	4W#5	5D Board
Moseley	ESS	Monrovia
Mounds	ESS	Polk City
Netcong	ESS	Monrovia
North Bend	AE	San Luis Obispo
Norway	4W#5	Monrovia
Parma	AE	Monrovia
Pickens	ESS	Polk City
Polk City	AE	5D Board
Portage	C AE	No 5D access
Pottstown	ESS	Monrovia
Regina	C AE	No 5D access
Rockdale	4W#5	Polk City
Roscommon	AE	Monrovia
San Luis Obispo	ESS	5D Board
Santa Rosa	4W#5	San Luis Obispo
Seguin	ESS	Polk City
Sherbrooke	C ESS	No 5D access
Smith Falls	C ESS	No 5D access

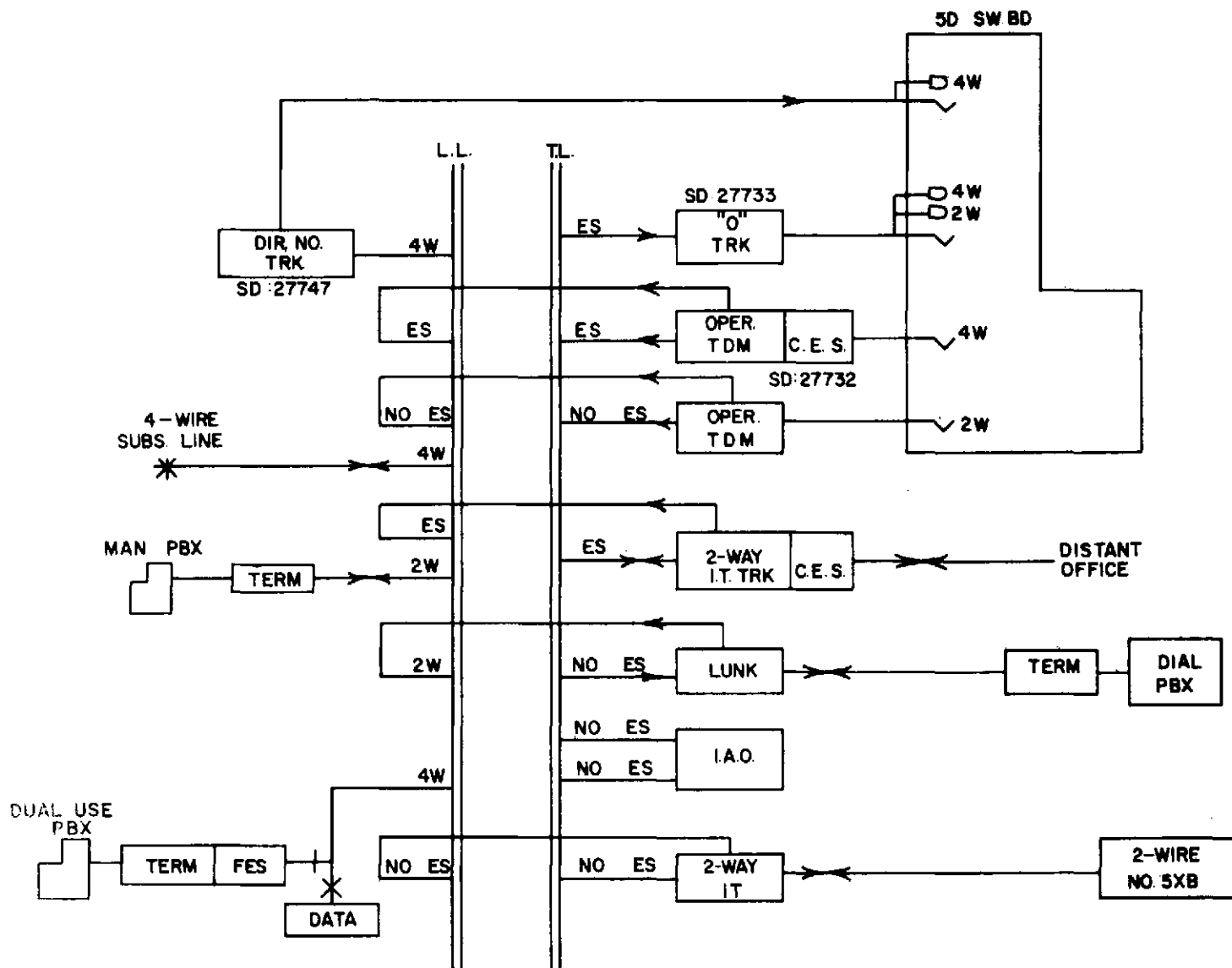
5D SWITCHBOARD TRUNKING ARRANGEMENTS

<u>Office</u>	<u>Type</u>	<u>Serving 5D Office</u>
Socorro	ESS	San Luis Obispo
Stanfield	ESS	Monrovia
Stevens Point	ESS	Monrovia
Sudbury	C AE	No 5D access
Sweetwater	ESS	San Luis Obispo
Terre Haute	AE	Polk City
Thunder Bay	C ESS	No 5D access
Toledo Jct.	AE	Monrovia
Topaz Lake	AE	San Luis Obispo
Tully	ESS	Monrovia
Turquoise	ESS	San Luis Obispo
Wheatland	AE	San Luis Obispo
Williamstown	ESS	Monrovia
Wyoming	ESS	Monrovia
Yakima	4W#5	San Luis Obispo

5D SWITCHBOARD TRUNKING ARRANGEMENTS

Remote dial "O" service is to be provided on a precedence multi-level pre-emption basis for all calls. Class of Call Tens (CCT) and Class of Call Units (CCU) will pass this information between the remote switching machine and the switching machine with the serving 5D board. These remote dial "O" calls are to be routed to the serving 5D office with a separate program and no alternate routes. Route Control Digit "O" will be prefixed from 4W#5 offices.

5D SWITCHBOARD ARRANGEMENT



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Tandem Switch Dial "0" at BRM, ELL, LOD, MOJ, NBW, PAR,
PIC, POT, ROC, TOL, TLY, TUR, DEL

Effective Date 4-4-71

APA	1st- MOJ 2nd- 3rd-	COL	1st-SLO 2nd- 3rd-	HAG	1st- MON 2nd- 3rd-
ARL	1st- MON 2nd- 3rd-	DEL	1st-SLO 2nd- 3rd-	HAN	1st- SLO 2nd- 3rd-
BNE	1st- TOL 2nd- 3rd-	DOV	1st-TLY 2nd- 3rd-	HEL	1st- SLO 2nd- 3rd-
BRE	1st- POL 2nd- 3rd-	DRA	1st-MON 2nd- 3rd-	HIL	1st- ROC 2nd- 3rd-
CMC	1st- 2nd- 3rd-	ELL	1st-POL 2nd- 3rd-	IRO	1st- 2nd- 3rd-
CED	1st- MON 2nd- 3rd-	ENN	1st-PIC 2nd- 3rd-	JAS	1st- POL 2nd- 3rd-
CHV	1st- MON 2nd- 3rd-	FAI	1st-TUR 2nd- 3rd-	JUL	1st- SLO 2nd- 3rd-
CHA	1st- MON 2nd- 3rd-	FWW	1st-SLO 2nd- 3rd-	LAM	1st- MOJ 2nd- 3rd-
CSE	1st- MON 2nd- 3rd-	FRE	1st- 2nd- 3rd-	LEE	1st- MON 2nd- 3rd-
CHE	1st- POT 2nd- 3rd-	GLE	1st- DEL 2nd- 3rd-	LET	1st- 2nd- 3rd-

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Tandem switch dial "0" at BRE, ELL, LOD, MOJ, NEW, PAR,
PIC, PCT, ROC, TOL, TLY, TUR, DEL

Effective Date 4-4-71

LIT	1st- MON 2nd- 3rd-	NEW	1st- LOD 2nd- 3rd-	SLO	1st- 5D Board 2nd- 3rd-
LOD	1st- SLO 2nd- 3rd-	NOR	1st- MON 2nd- 3rd-	SRA	1st- SLO 2nd- 3rd-
LYO	1st- SLO 2nd- 3rd-	PAR	1st- MON 2nd- 3rd-	SEG	1st- POL 2nd- 3rd-
MED	1st- LOD 2nd- 3rd-	PIC	1st- POL 2nd- 3rd-	SHE	1st- 2nd- 3rd-
MEM	1st- ELL 2nd- 3rd-	POL	1st- 5D Board 2nd- 3rd-	SMF	1st- 2nd- 3rd-
MOJ	1st- SLO 2nd- 3rd-	POR	1st- 2nd- 3rd-	SOC	1st- MOJ 2nd- 3rd-
MCN	1st- 5D Board 2nd- 3rd-	POT	1st- MON 2nd- 3rd-	STN	1st- MON 2nd- 3rd-
MOS	1st- MON 2nd- 3rd-	REG	1st- 2nd- 3rd-	STV	1st- TOL 2nd- 3rd-
MOU	1st- PIC 2nd- 3rd-	ROC	1st- POL 2nd- 3rd-	SUD	1st- 2nd- 3rd-
NTG	1st- MON 2nd- 3rd-	RSC	1st- MON 2nd- 3rd-	SWE	1st- MOJ 2nd- 3rd-

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Tandem Switch Dial "0" at BRE, ELL, LOD, MOJ, NBW, PAR,
PIC, POT, ROC, TOL, TLY, TUR, DEL

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TER	1st- POL 2nd- 3rd-				
TBY	1st- 2nd- 3rd-				
TOL	1st- MON 2nd- 3rd-				
TOP	1st- LOD 2nd- 3rd-				
TLY	1st- MON 2nd- 3rd-				
TUR	1st- SLO 2nd- 3rd-				
WHN	1st- SRA 2nd- 3rd-				
WIL	1st- MON 2nd- 3rd-				
WYO	1st- PAR 2nd- 3rd-				
YAK	1st- SLO 2nd- 3rd-				

AUTOVON ANNOUNCEMENT REQUIREMENTS

1. Vacant Code and restricted route digit attempted calls are to be routed to common overflow trunk (G-127) for announcement "B".
2. No such number or vacant number calls are to be routed to Line Link Intercept announcement trunks (F-41) for announcement "B".
3. Precedence calls to trunks or lunks blocked due to all trunk or lunk busy with equal or higher precedence are to be routed to a separate group of common overflow trunks (G-127) for pre-empt "N. C." announcement "A".
4. Precedence calls to lines blocked due to all lines busy with equal or higher precedence are to be routed to a separate group of Line Link Intercept announcement trunks (F-41) for announcement "A".
5. Unauthorized precedence level attempted calls are to be routed to a separate group of common overflow trunks (G-127) and given announcement "C".

RECORDED ANNOUNCEMENTS

- A. A precedence call is blocked.

Announcement

"Equal or higher precedence calls have prevented completion of your call or the number you have dialed is not equipped for pre-emption. Please hang up and try again. This is a recording. (Pause) SSB No."

- B. A no such service, vacant number or restricted route digit is attempted.

Announcement

"Your call cannot be completed as dialed. Please consult your directory and call again, or ask your operator for assistance. This is a recording. (Pause) SSB No."

- C. An unauthorized precedence level is attempted.

Announcement

"The precedence used is not authorized for your line. Please use an authorized precedence or ask your operator for assistance. This is a recording."

- D. Destination code cancellation.

Announcement

"Autovon service disruption has prevented the completion of your call. Please wait 30 minutes and try again. In case of emergency call your operator. This is a recording. (Pause) SSB No."

AUTOVON 4WL ESS ANNOUNCEMENT TRUNKS

In the 4WL ESS there is Receiver-Off-Hook announcement trunk capability. To provide a standardized announcement throughout all ESS switching machines, it is suggested that the following wording be utilized for the ROH announcement. "You have left your receiver off hook too long. Please hang up and dial again. This is a recording."

OTHER MISCELLANEOUS ROUTING

Permanent Signal Routing

4W#5 - Permanent signals are to be directed to permanent signal trunks. When all permanent signal trunks are busy these calls are to route advance to the common overflow trunk group.

4W#1 ESS - Permanent signals are to be routed to "Receiver Off Hook" announcement, followed by Receiver Off Hook tone and then put on the "High and Wet" list.

No Circuit (N. C.) Routings for Trunks or Lunks

(A) Precedence Calls (PO-3)

Precedence calls that cannot pre-empt because all trunks or lunks are busy with equal or higher precedence calls are to route to the group of announcement trunks to receive pre-empt N. C. announcement "A" as covered on Pages 1 and 2 of this section.

(B) Non-Precedence (Routing) Calls

1. S. O. G. - Originating Calls

All non-precedence calls encountering an all trunk busy are to route to overflow trunks and receive N. C. tone.

2. T. O. G. - Tandem Calls

All non-precedence T. O. G. calls encountering an all trunks busy do not route to the common overflow trunks in 4W#5's. In this case the completing marker signals the incoming trunk to return N. C. tone to the originating office. (Since S. O. G. and T. O. G. calls use the same program relays it will be necessary to separate the two types by screening just ahead of the common overflow route relay.) Route T. O. G. calls in 4W#1 ESS to overflow trunks to receive N. C. tone.

Line Busy Routings

(A) Precedence Calls

Precedence calls that cannot pre-empt because all lines are busy with equal or higher precedence calls or because pre-emptible lines were not provided are to route to

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announcement "A" as covered on Pages 1 and 2 of this section.

(B) Non-Precedence (Routing) Calls

Non-precedence calls encountering all lines busy are to receive line busy tone. (60 I. P. M.)

<u>Mark</u>	<u>Prece-</u> <u>dence</u>	<u>Conus</u> <u>GA</u>	<u>N/S</u>	<u>General Autovon Overseas</u>				<u>Remarks</u>
				<u>Global</u>	<u>C&E</u>	<u>C&P</u>	<u>C&C</u>	
<u>VOICE GRADE</u>								
Voice Grade Basic P-4 with ability to upgrade precedence with Touch Tone.								
2W	P-4	SS	XS	OS	ES	PS	CS	Non Pre-emptible
2W	P-4	SW	XW	--	--	--	--	
2W	P-3	SR	XR	OR	ER	PR	CR	
2W	P-2	SQ	XQ	OQ	EQ	PQ	CQ	
2W	P-1	SB	XB	OB	EB	PB	CB	
2W	P-0	SA	XA	OA	EA	PA	CA	
4W	P-0	SE	XE	--	--	--	--	

VOICE GRADE/DATA CAPABLE

Voice Grade/Data Capable Basic P-4 with ability to upgrade precedence with Touch Tone.

4W	P-4	ST	XT	OT	ET	PT	CT	Non Pre-emptible
2W	P-4	SU	XU	--	--	--	--	
4W	P-4	SO	XO	OO	EO	PO	CO	
4W	P-3	SL	XL	OL	EL	PL	CL	
2W	P-3	SV	XV	--	--	--	--	
2W	P-2	SZ	XZ	OZ	EZ	PZ	CZ	
4W	P-2	SM	XM	OM	EM	PM	CM	
2W	P-1	SD	XD	OD	--	--	--	
4W	P-1	SN	XN	ON	EN	PN	CN	
2W	P-0	SC	XC	--	--	--	--	
4W	P-0	SP	XP	OP	EP	PP	CP	

Mark	Prece- dence	Conus GA	N/S	General Autovon Overseas				Remarks
				Global	C&E	C&P	C&C	

AUTOMATIC CONFERENCE REQUIREMENTS

Voice Grade/Data Capable - Basic P-4 with access to Automatic Conference arrangers and ability to upgrade precedence.

LW	P-3	SG	XG	--	--	--	--	
LW	P-2	SH	XH	OH	EH	PH	CH	
LW	P-1	SJ	XJ	OJ	EJ	PJ	CJ	
LW	P-0	SK	XK	OK	EK	PK	CK	
LW	All	SX*	XX	--	--	--	--	All levels originating - No Precedence memory (Used only by Conf. Bridge legs)
LW	P-1	SY	XY	--	--	--	--	No Prec. Memory (Used only by Conf. Bridge legs)

OFF HOOK REQUIREMENTS

Voice Grade/Data Capable - any one precedence level as determined by A. C. L. C., M. A. R., or Hot Line Assignment. Access to Automatic Conference Arrangers and overseas permitted.

LW	--	SF	XF	--	--	--	--
----	----	----	----	----	----	----	----

DIRECT STATION SELECTION LINES (ESS E/W AV5 ONLY)

LW	TA	YA		Terminating - Unrestricted
LW	TB	YB		Terminating - Restricted to D.S.S. subs only.

AIR FORCE PERSONNEL CENTER

Intra-office use (only on Ennis)

WS	--	--	--	--	--
----	----	----	----	----	----

* Permit access to all Overseas Areas if ordered for Automatic Conference Arranger Bridge Legs.

NOTES

1. 1X Code - "11" - Must be prefixed before 7 or 10 digit address to invoke Data grade routing for Dual use classes of service.
2. Touch Tone button Precedence (P, I, F, or FO) must be prefixed to upgrade precedence level from basic level.
3. User will be given an announcement if he attempts routing or precedence levels not authorized by his class of service.
4. C&E = Conus and Europe.
5. C&P = Conus and Pacific.
6. C&C = Conus and Caribbean.

LW#5

TYPICAL RINGING COMBINATIONS FOR MULTI-LEVEL FEATURES

<u>TBS</u>	<u>RCT</u>	<u>Features</u>	
0	2	Non-Pre-emptible, non-hunt	Ring from line
0	3	Non-Pre-emptible, hunt	Ring from line
0	4	Pre-emptible, non-hunt	Ring from line
0	5	Pre-emptible, hunt	Ring from line
0	9	Off hook service, non-hunt	Ring from line
1	9	Off hook service, hunt	Ring from line
0	12	Switchboard LDN, hunt	Ring from line
1	12	Intercept Ann. Trunks, hunt	Ring from line
0	13	FTS line, non-hunt	Ring from trunk
0	14	FTS line, hunt	Ring from trunk
0	15	Plant test line, non-hunt	Ring from line
0	TN	Trunk (combinations)	

Additional ringing combinations may be obtained by using additional contacts of TBS relays 1-3.

AUTOVON DIALING FORMAT

<u>Dialing Formats</u>	<u>Touch Tone Set</u>	<u>Rotary Dial</u>
1. Basic Service	7 or 10 digits	7 or 10 digits
2. Precedence Change	Prec. Button + 7 digits	
3. Data Capable	11 + 7 digits	

<u>Precedence Assignments</u>	<u>Touch Tone Prec. Button</u>	<u>1X Code Prefix</u>
P-0 Flash Override	FO	*12
P-1 Flash	F	*13
P-2 Immediate	I	*14
P-3 Priority	P	*18
P-4 Routine	None	

<u>1X PREFIX</u>		<u>INTERMACHINE DIGIT</u>	
<u>Precedence</u>	<u>Routing</u>	<u>CCT</u>	<u>CCU</u>
	10		0
	11		1
*12		0	
*13		1	
*14		2	
	15		5
	16		6
	17		
*18		3	
	19		
		4	

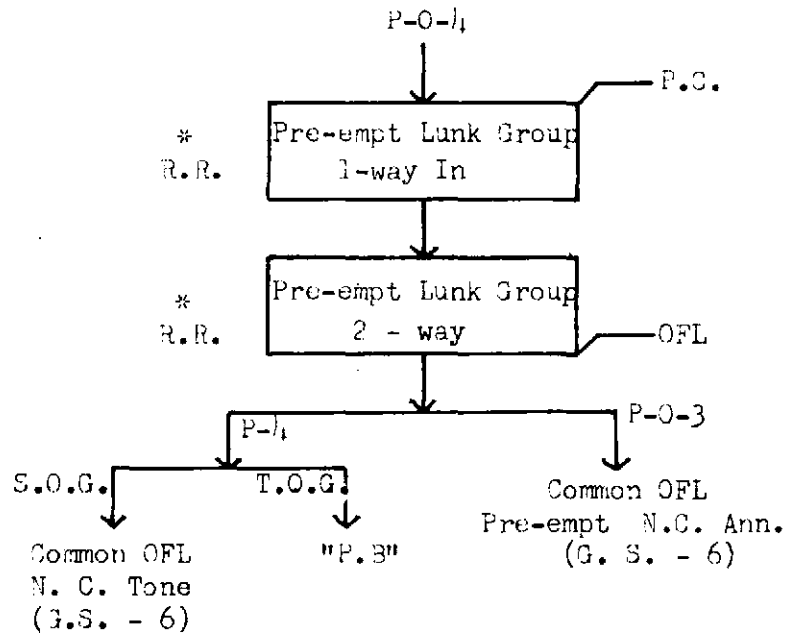
INTERMACHINE DIGIT FORMAT

(Precedence) (Routing) (Route Control Digit) (Address)
CCT + CCU + RC + 7 or 10 digits

* Selected Subscribers only

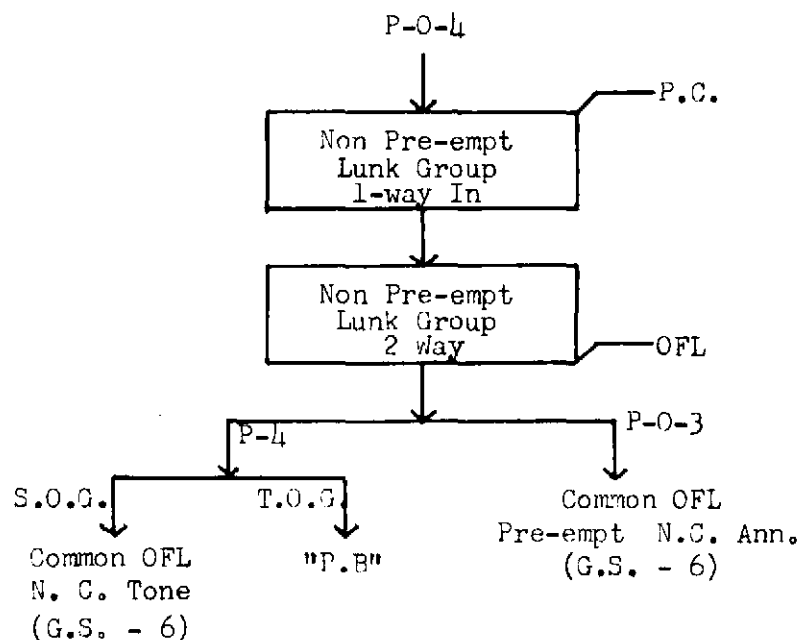
Address = NPA + NNX + 4 Digits, or NNX + 4 Digits

SINGLE HOMED PBX ROUTING, 100% PRE-EMPT

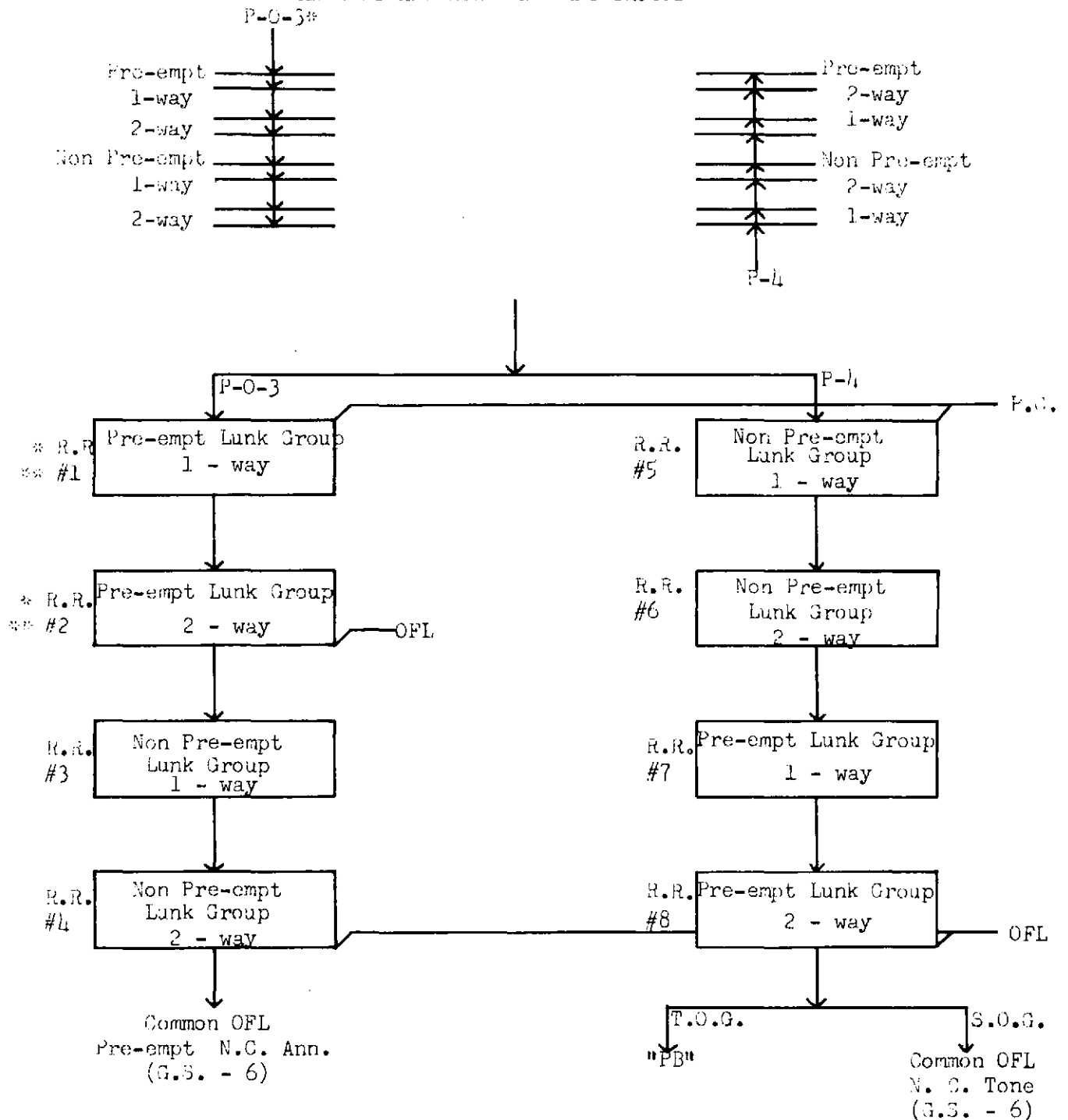


* Use Immediate Pre-empt Route Series Relay

SINGLE HOMED PBX ROUTING, 100% NON PRE-EMPT

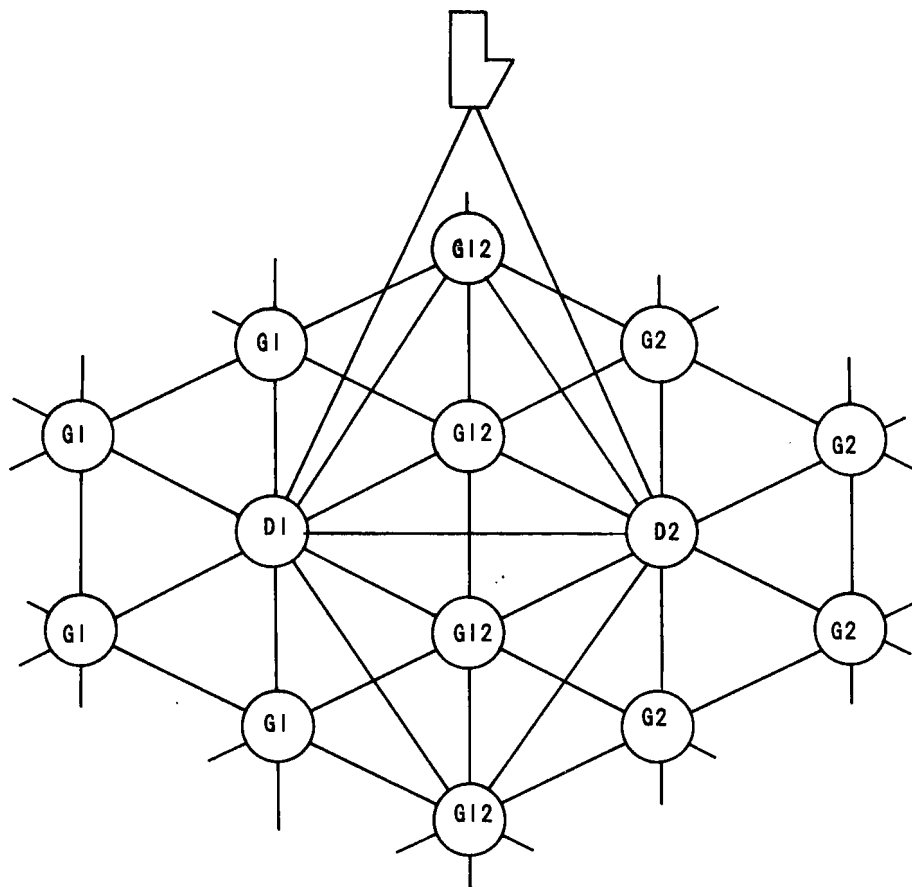


SINGLE HOMED PBX ROUTING WITH SPLIT GROUP
PRE-EMPT AND NON PRE-EMPT GROUPS



- * Use Immediate Pre-empt Route Series Relay
- ** If no PNID (all priority calls to PBX Opr.) R.R.#1 will not require outdial sender.

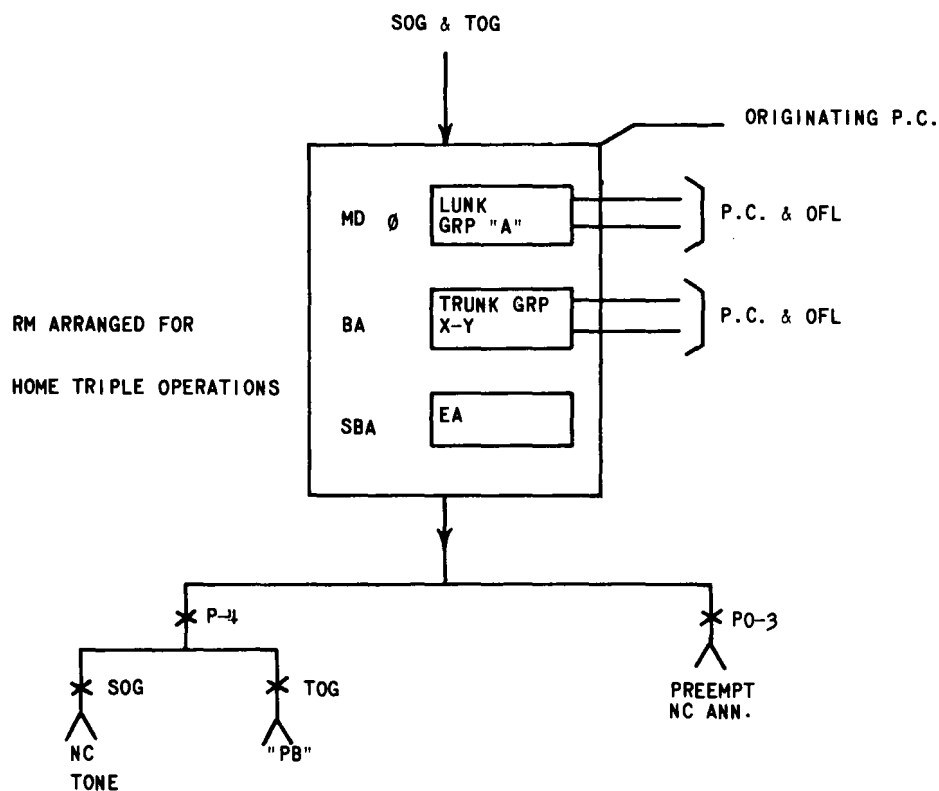
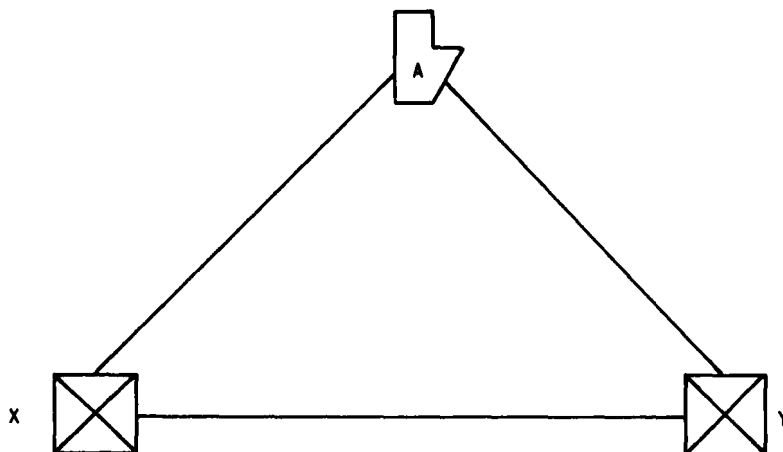
AUTOVON ROUTING GUIDE
Dual Homed PBX in Polygrid Configuration



AUTOVON ROUTING GUIDE

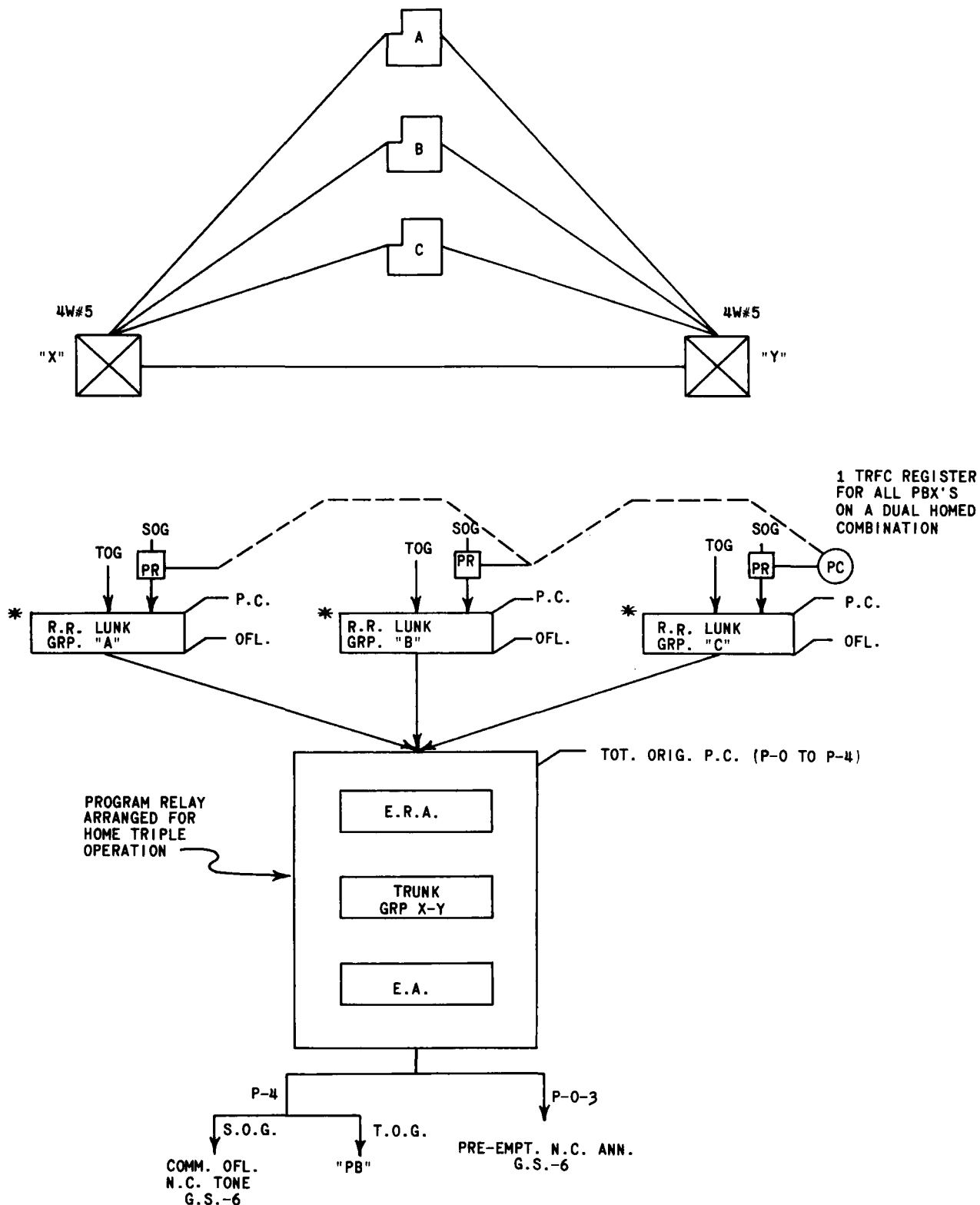
Dual Homed PBX Lunk Group 100% Preempt

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Ø USE IMMEDIATE PREEMPT ROUTE SERIES RELAY

DUAL HOMED PBX LUNK ROUTING 100% PRE-EMPT

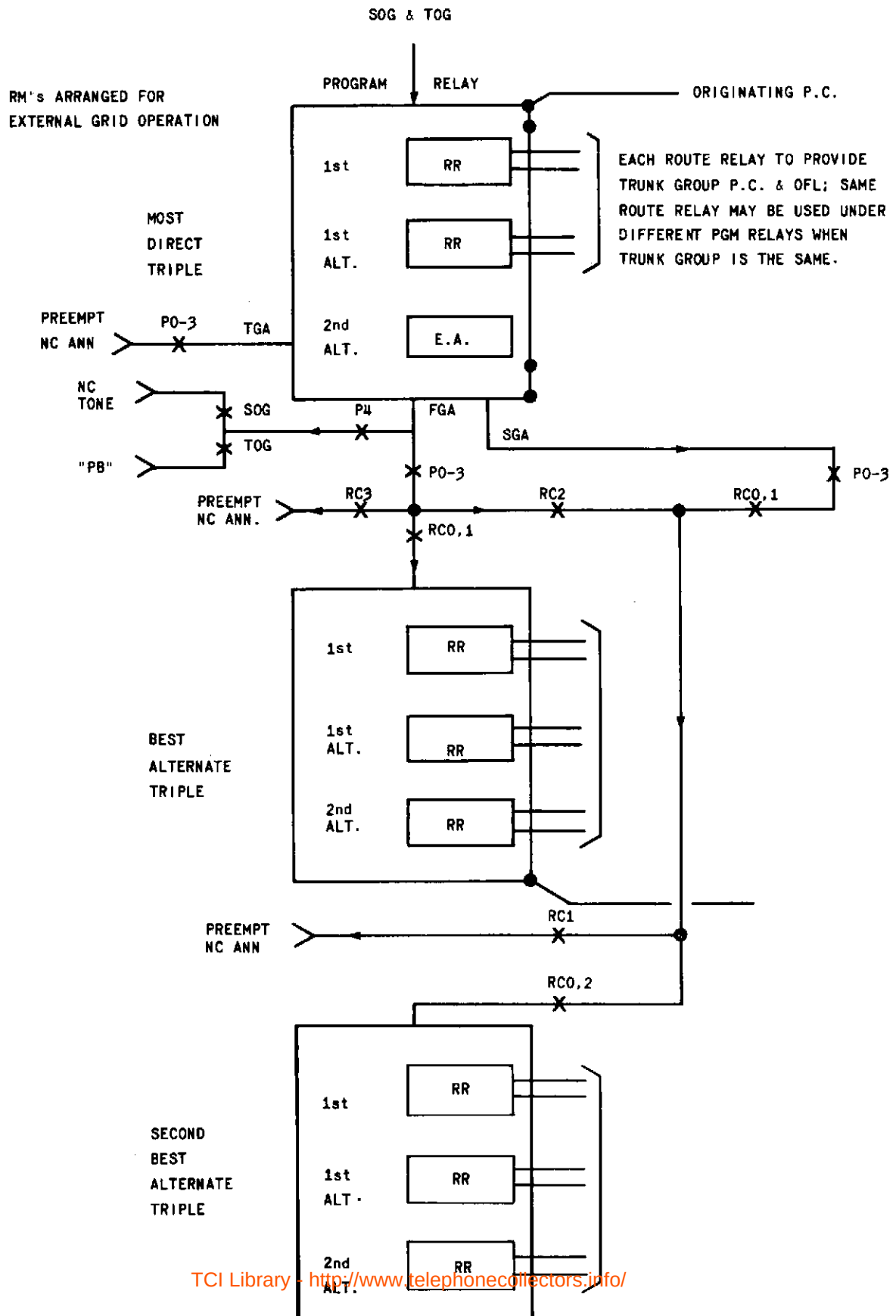


* USE IMMEDIATE PRE-EMPT ROUTE SERIES RELAY

AUTOVON ROUTING GUIDE

Program Relay & Traffic Register Arrangement

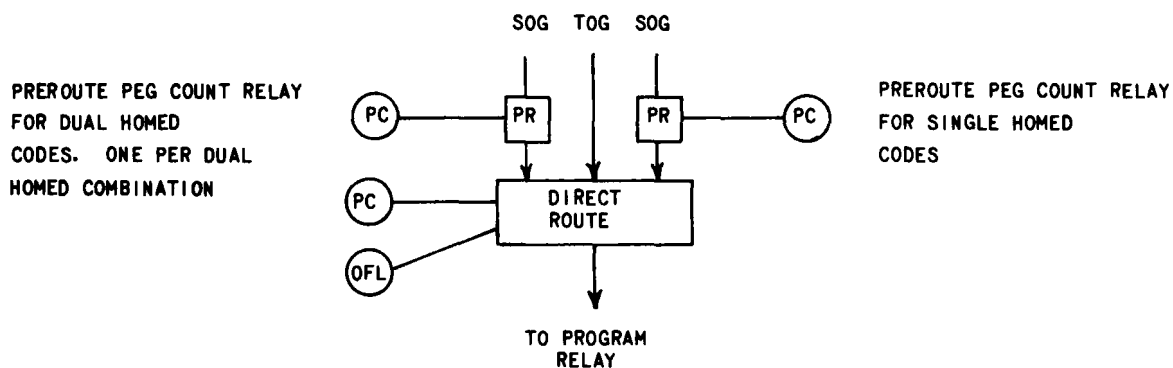
For Dual Home PBX G-12's



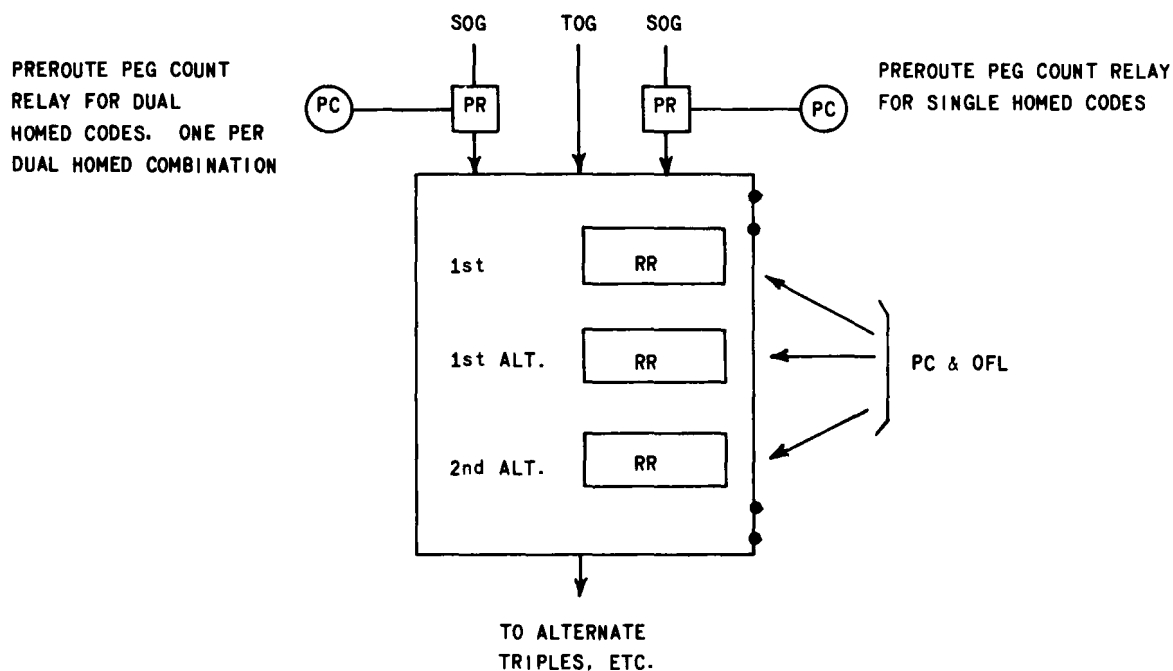
AUTOVON ROUTING GUIDE

Reuse of Direct and Alternate Route Programs on Dual Homed Combinations

A. With Direct Trunk Group.



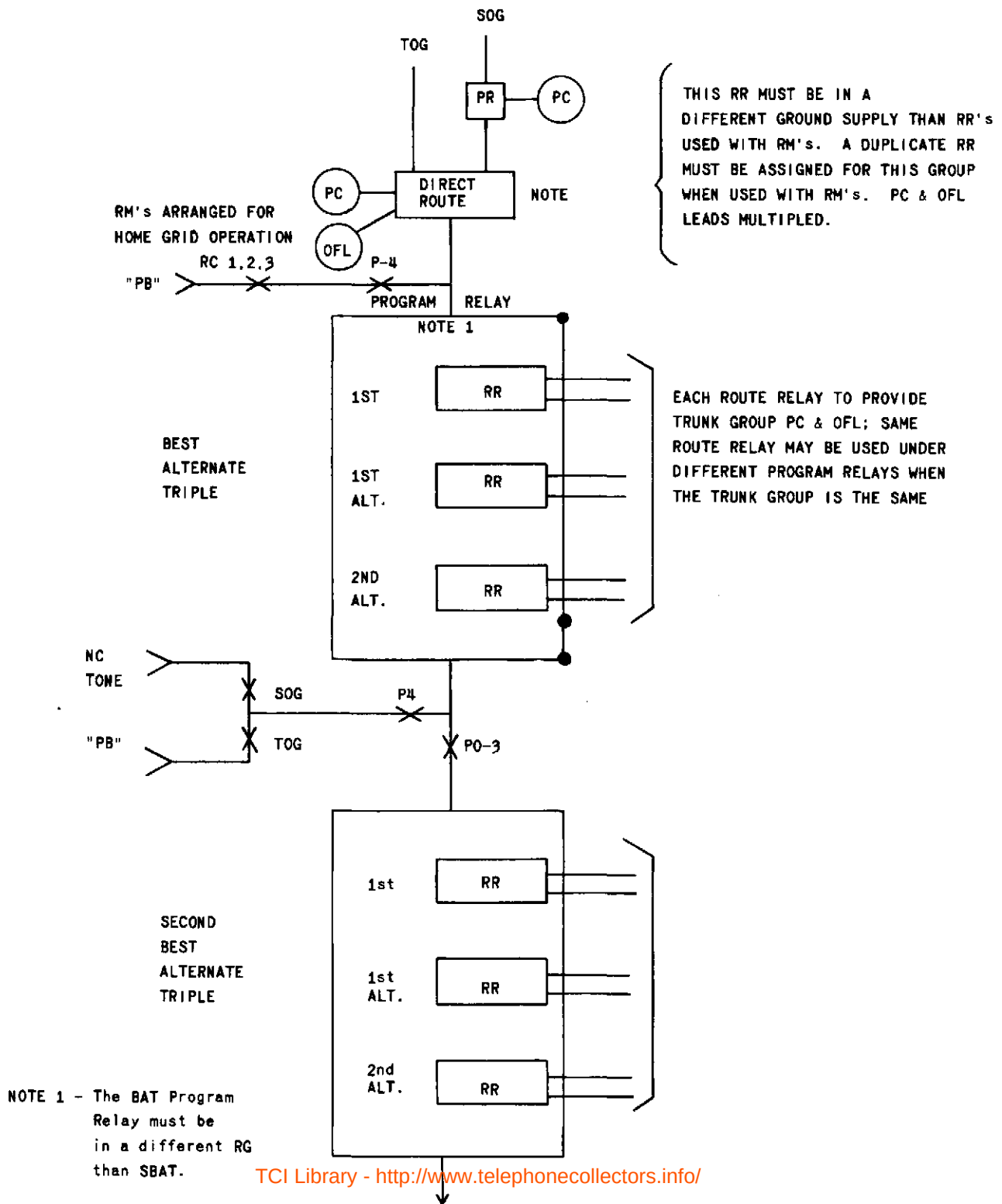
B. Without Direct Trunk Group.



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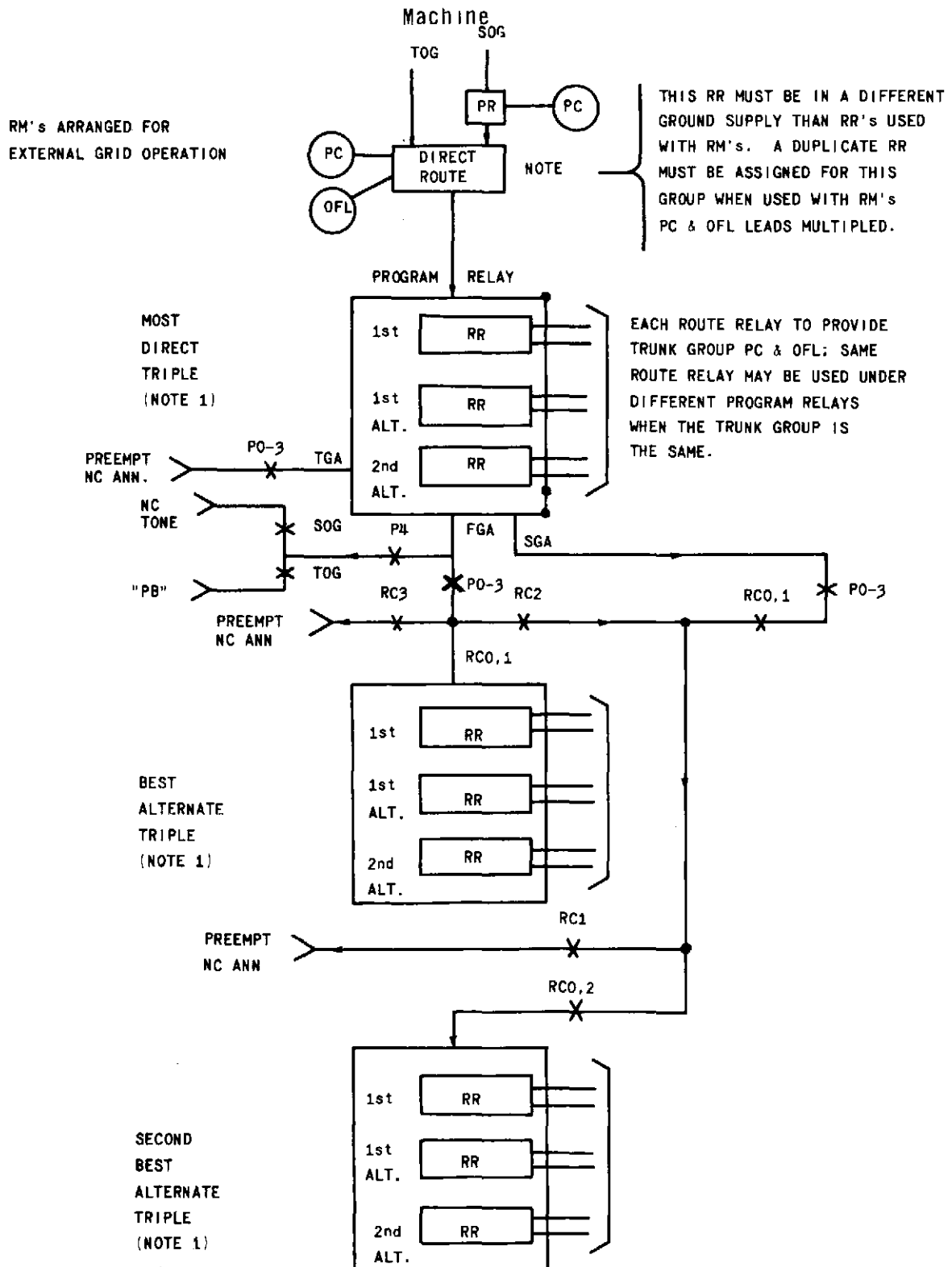
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Effective 4-4-71
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AUTOVON ROUTING GUIDE Program Relay & Traffic Register Arrangement For Home Grid, Non - G12



AUTOVON ROUTING GUIDE

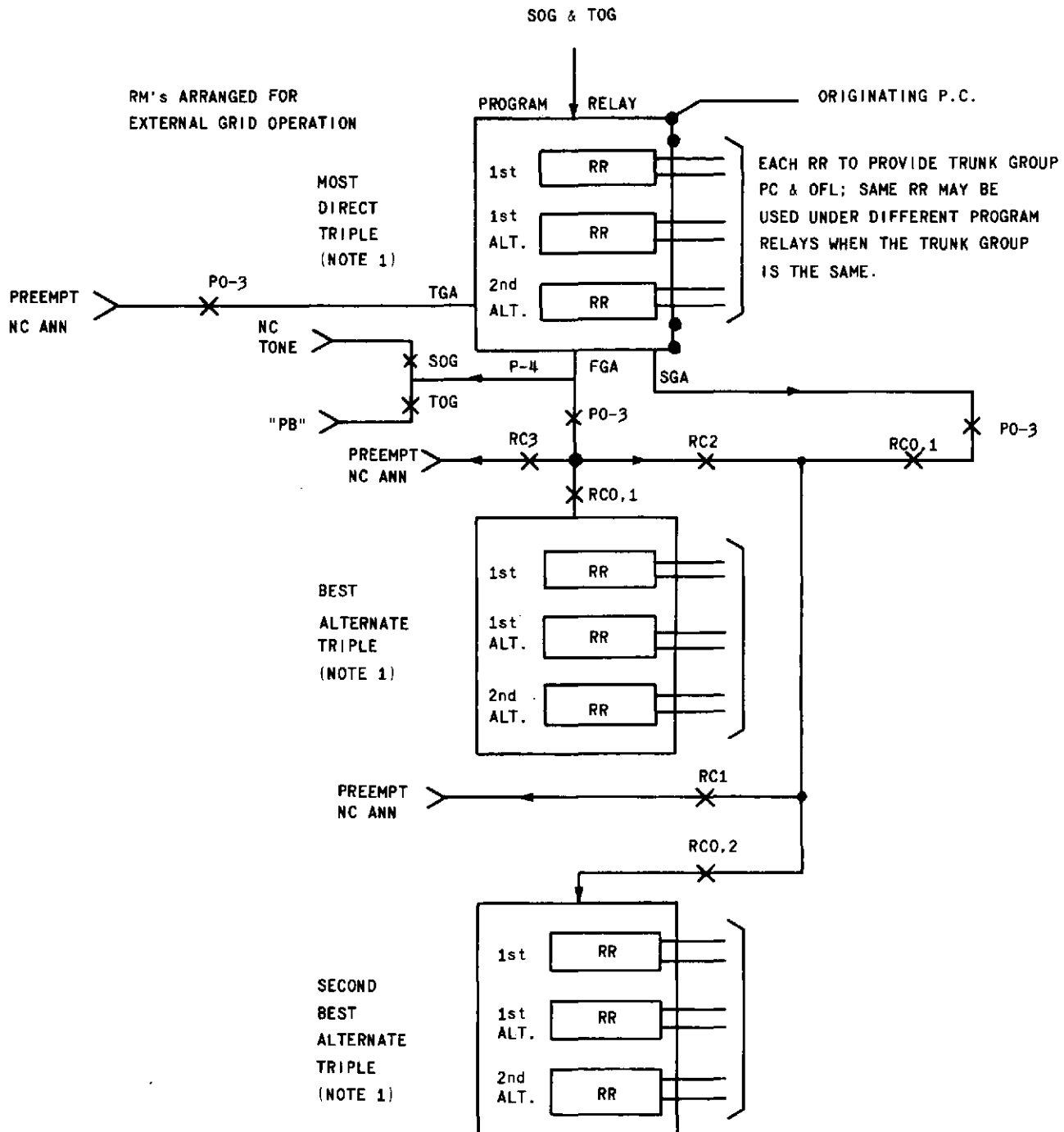
Program Relay & Traffic Register Arrangement For External Grid With Direct Group To Destination



NOTE 1:

The MDT Pgm Relay must be in a different RG than either the BAT or SBAT. The BAT and SBAT may be in the same RG.

AUTOVON ROUTING GUIDE Program Relay & Traffic Register Arrangement For External Grid Without Direct Group To Destination Machine



NOTE 1:

The MDT Pgm Relay must be in a different RG than either the BAT or SBAT. The BAT and SBAT may be in the same RG.

AUTOVON ROUTING GUIDE

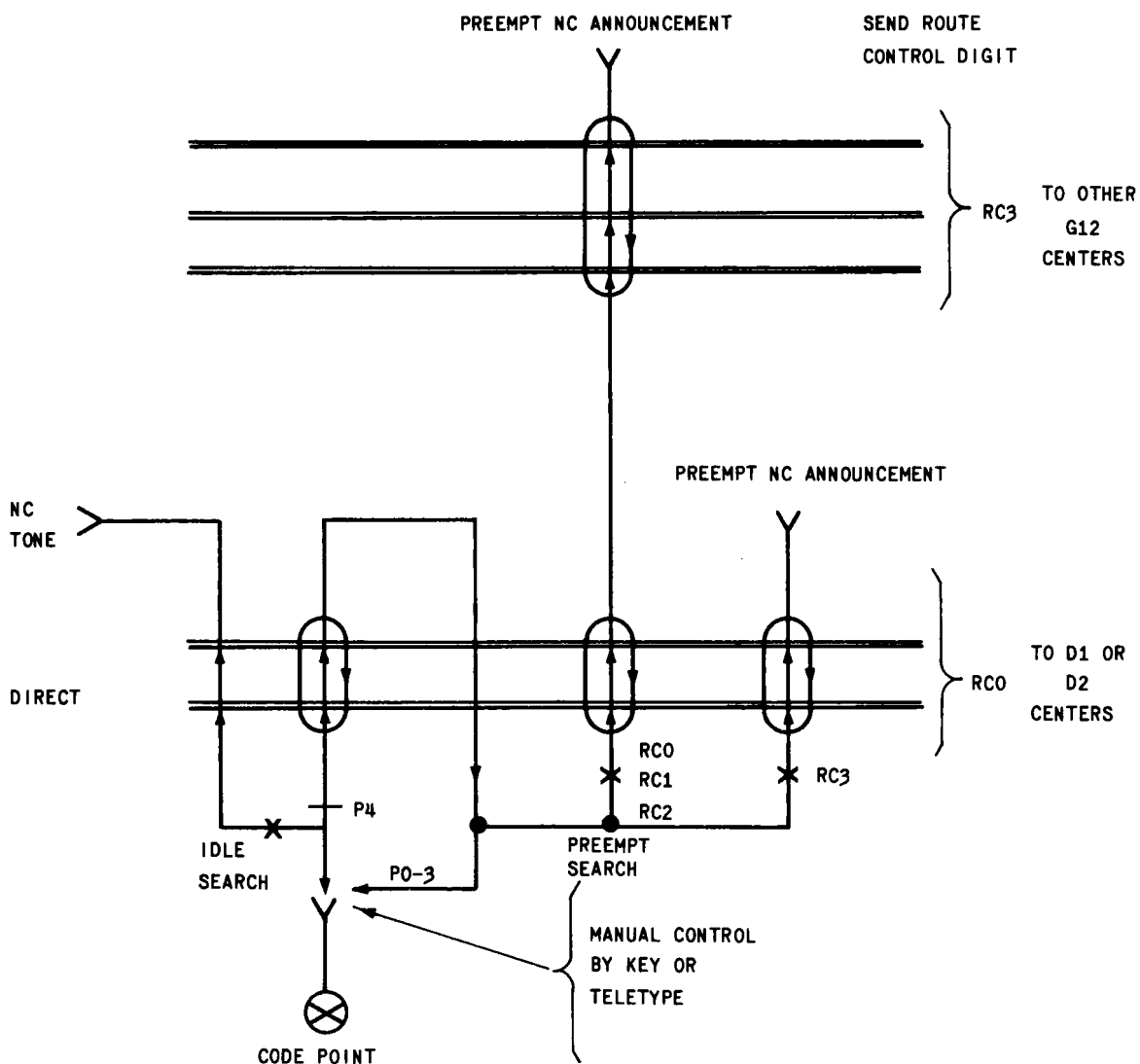
Trunk Group Selection Dual Homed PBX'S G12 Centers, Voice Grade

TRIPLES

ALTERNATE
TRIPLE
(BA OR SBA)

PREEMPT NC ANNOUNCEMENT

SEND ROUTE
CONTROL DIGIT



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AUTOVON ROUTING GUIDE

Trunk Group Selection

Interior To Home Grid, Voice Grade, Non - G12

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TRIPLES

PREEMPT NC ANNOUNCEMENT

SEND ROUTE
CONTROL DIGIT

SECOND
BEST
ALTERNATE

1, 2 OR 3

1, 2 OR 3

1, 2 OR 3

NC
TONE

BEST
ALTERNATE

1, 2 OR 3

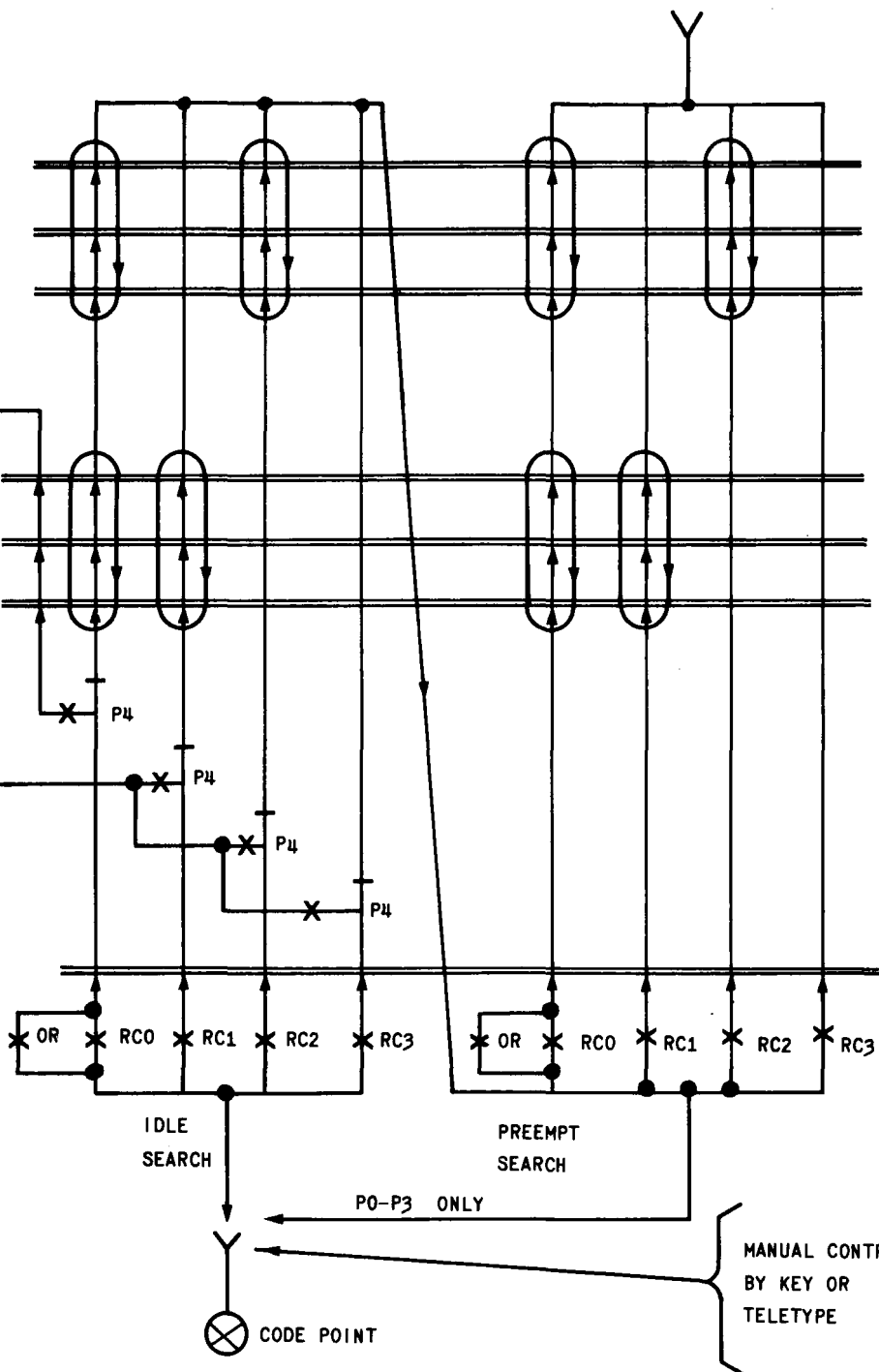
1, 2 OR 3

1, 2 OR 3

NC
TONE

DIRECT

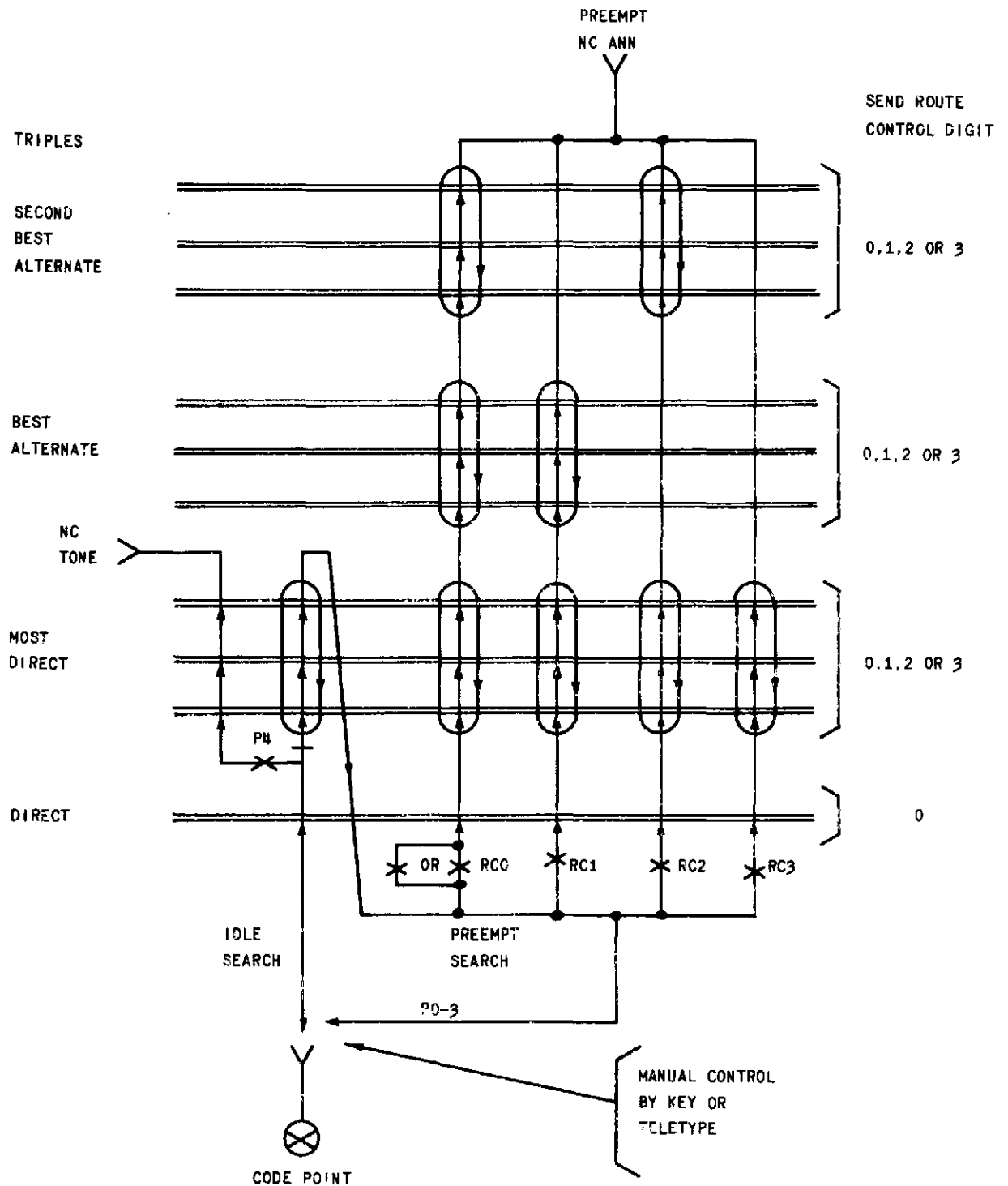
0



AUTOVON ROUTING GUIDE

Trunk Group Selection

Exterior Grid With Direct Route, Voice Grade



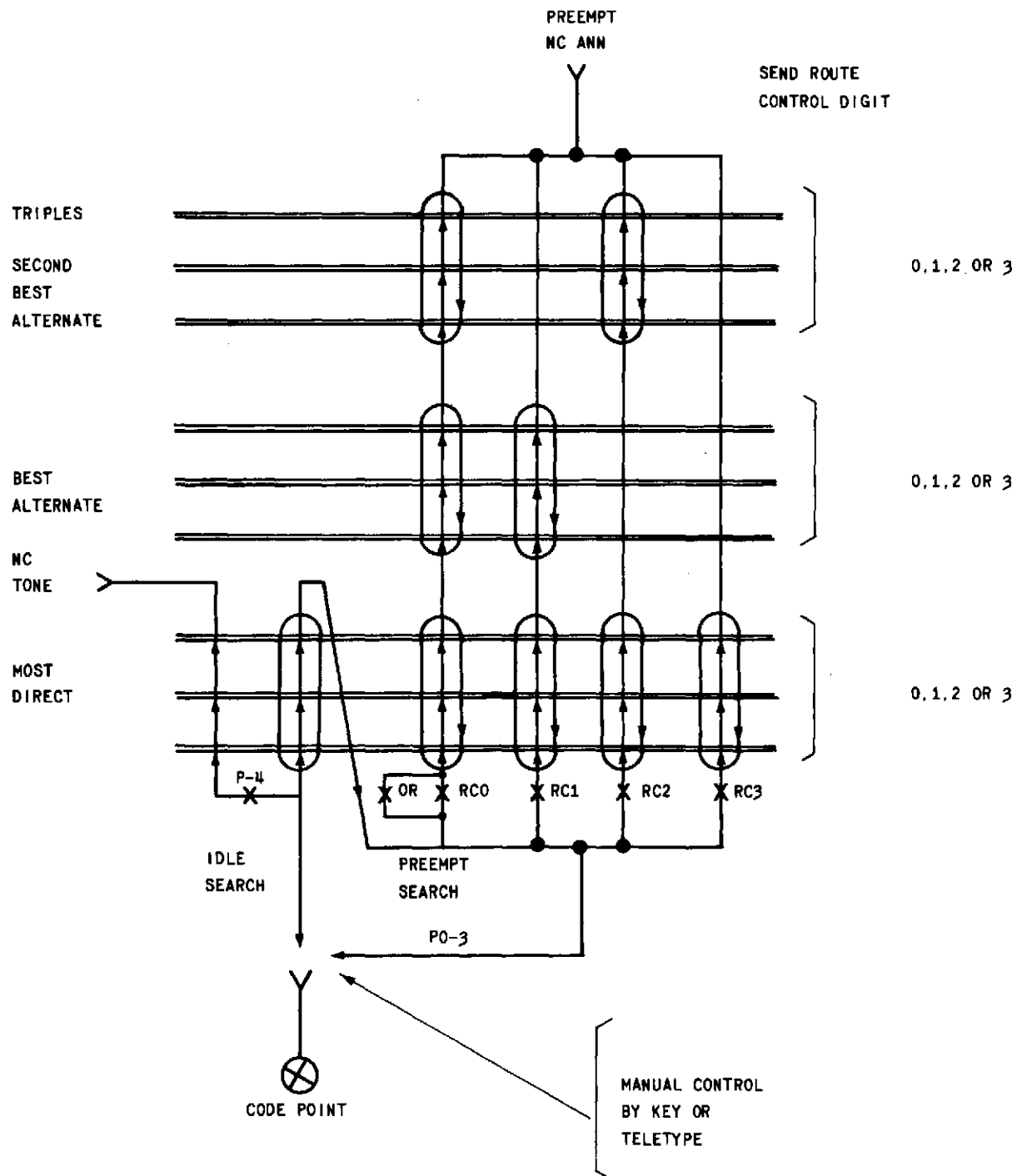
A. T. & T. Co.
L. L. Dept.
Sw. Svc.

Section 7
Page All
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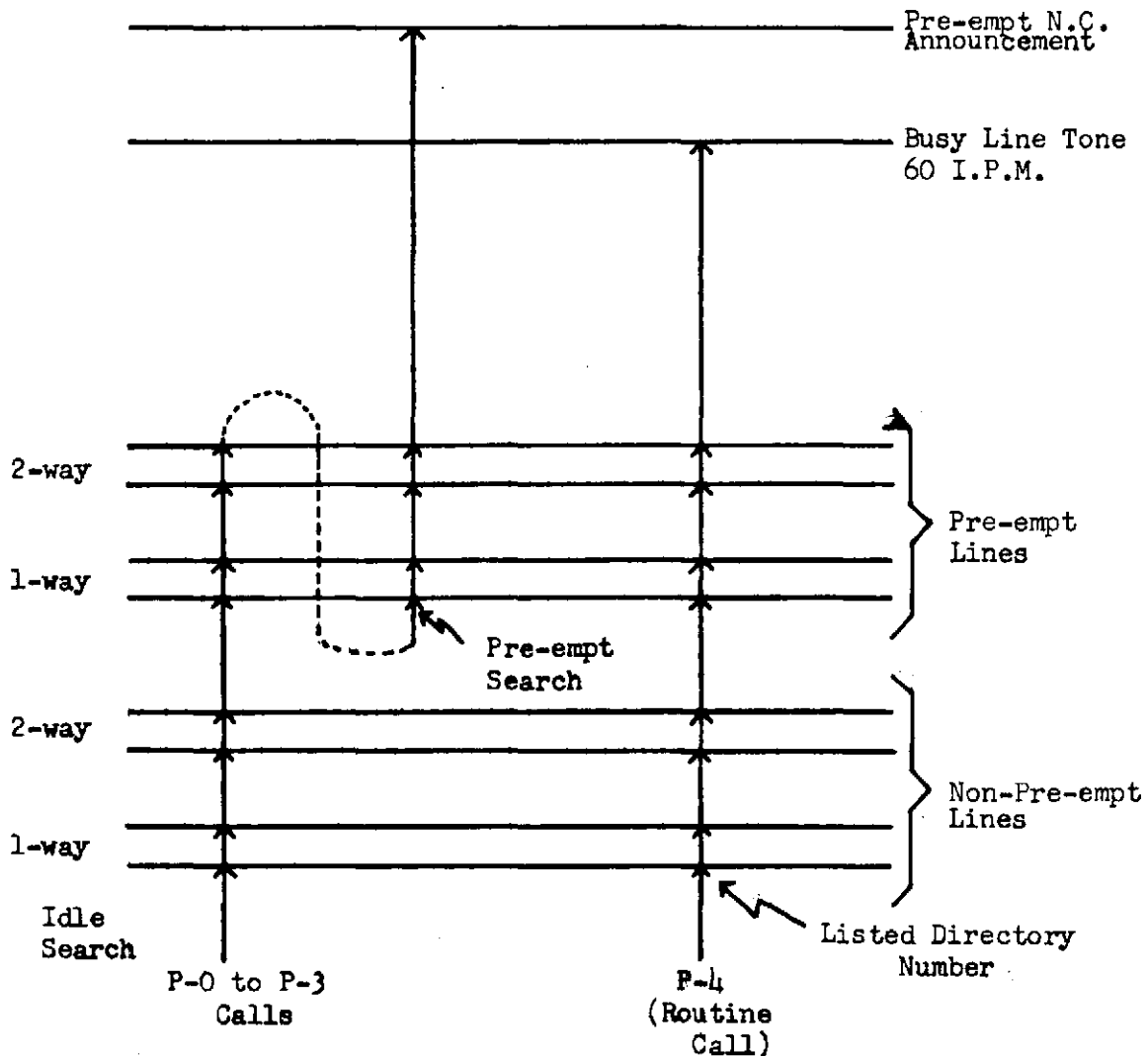
AUTOVON ROUTING GUIDE

Trunk Group Selection

Exterior Grid Without Direct Route, Voice Grade



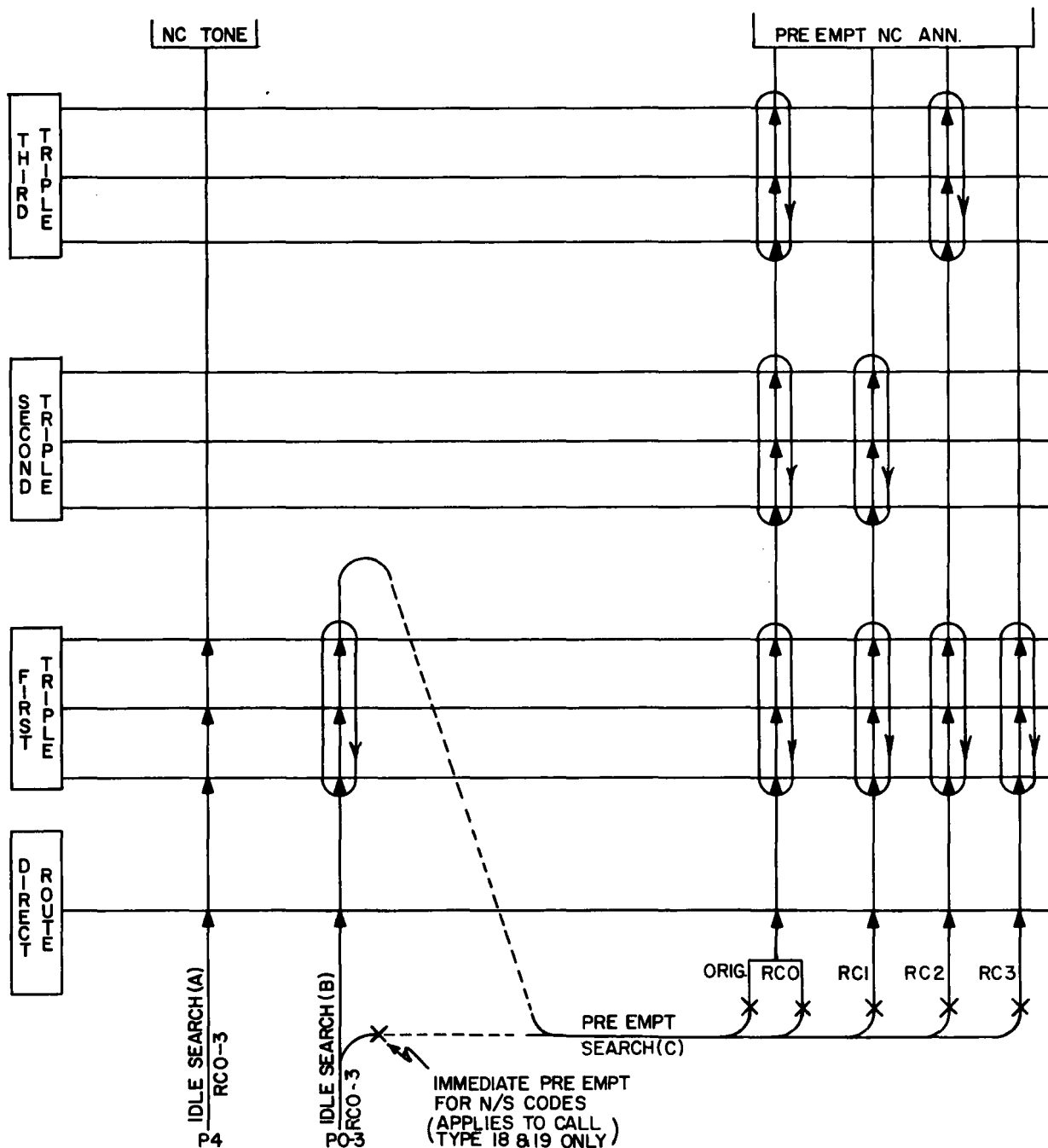
LINE HUNT GROUP SELECTION
WITH PRE-EMPT AND NON PRE-EMPT LINES



AUTOVON ROUTING GUIDE

ESS TRUNK GROUP SELECTION

PRN TYPE: EXA (EXTERNAL ROUTING)

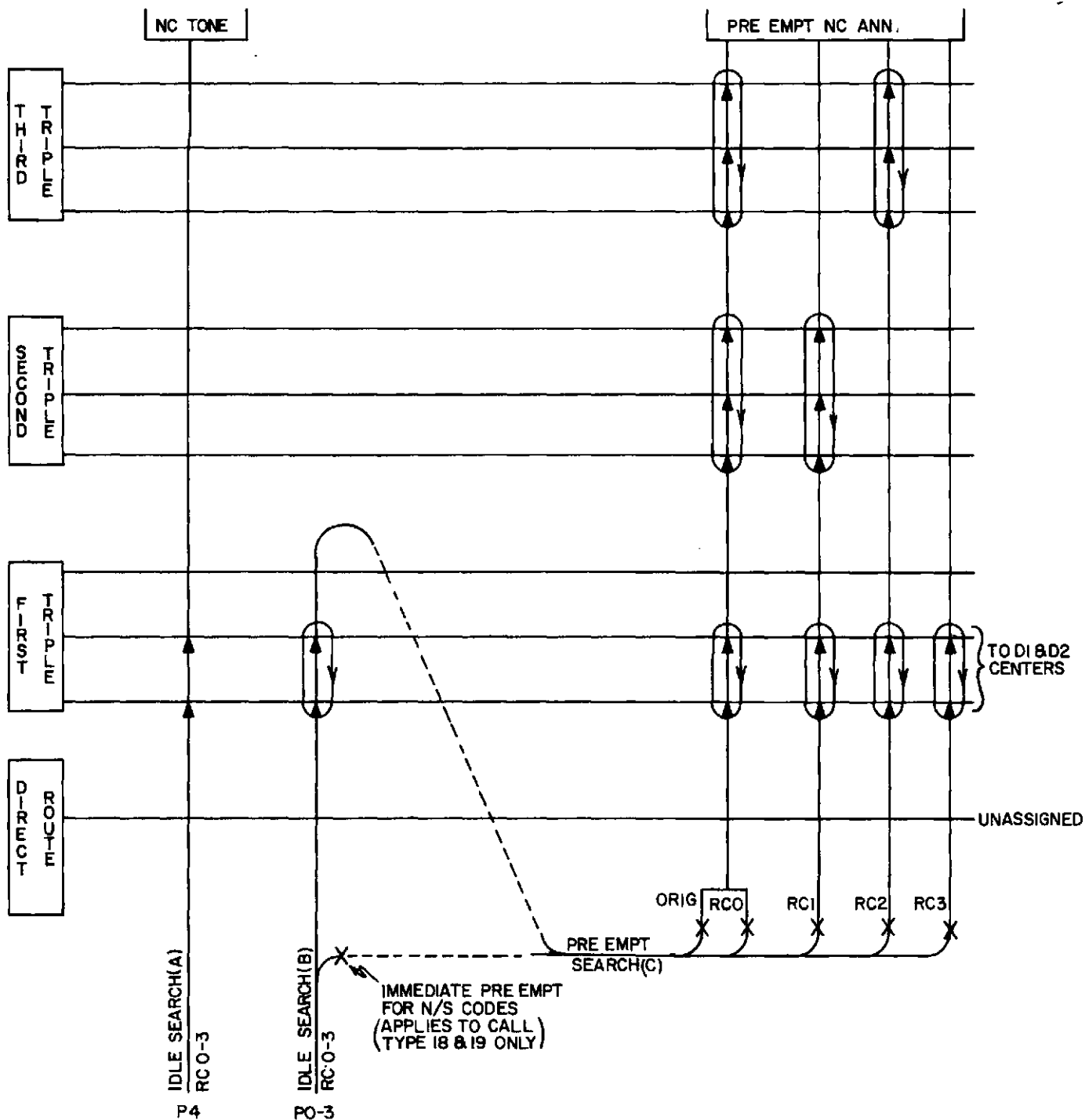


AUTOVON ROUTING GUIDE
ESS TRUNK GROUP SELECTION

Section 7
Page B2
Revision 0
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Issue Date 9-21-70

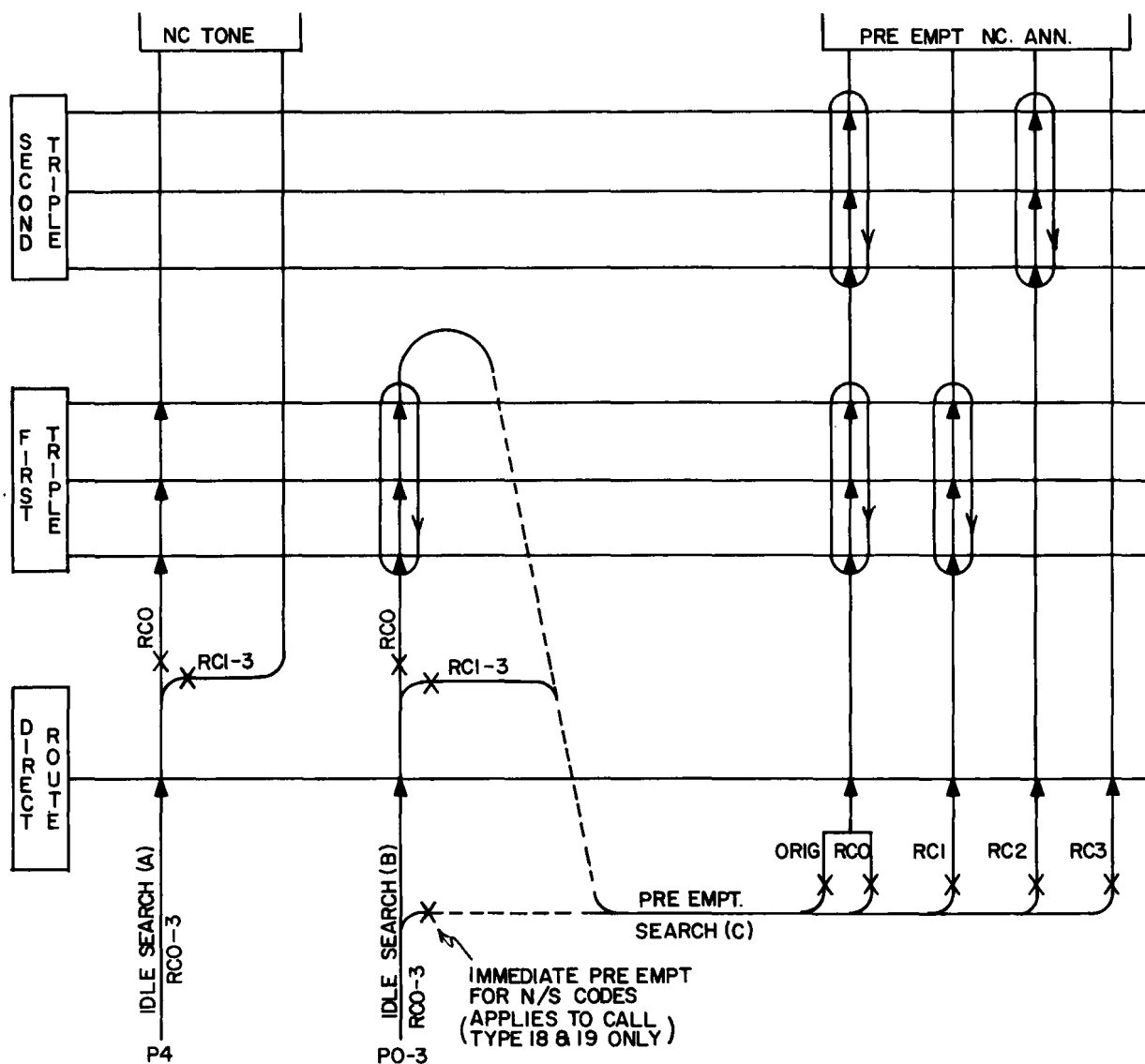
PRN TYPE: EXA (EXTERNAL ROUTING)

ROUTING TO DI & D2 OFFICES FROM A G-12 OFFICE OR AN
EXTERIOR OFFICE HAVING A DIRECT TRUNK GROUP TO DI & D2



DI&D2 TRUNK GROUPS ARE
THE ONLY TWO ASSIGNED
TO THE FIRST TRIPLE

AUTOVON ROUTING GUIDE
ESS TRUNK GROUP SELECTION
PRN TYPE: INT (INTERNAL ROUTING)



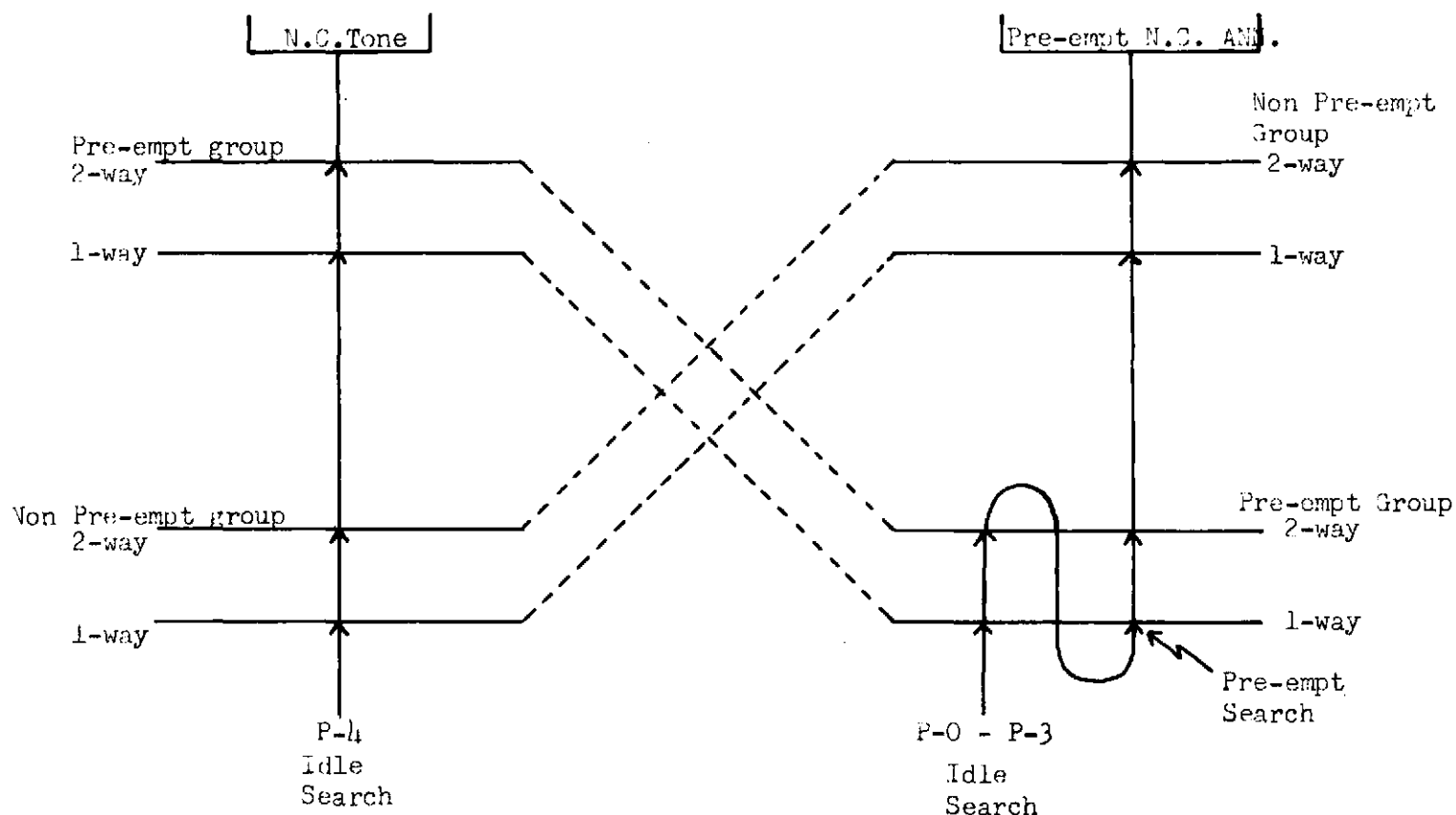
A. T. & T. Co.
L. L. Dept.
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AUTOVON ROUTING GUIDE

TRUNK GROUP SELECTION
ESS SPLIT GROUP ROUTING

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USE LINKED ROUTE INDEX TECHNIQUE (WITH
EXTENDED ROUTING) AND PROGRAM INDEX 3

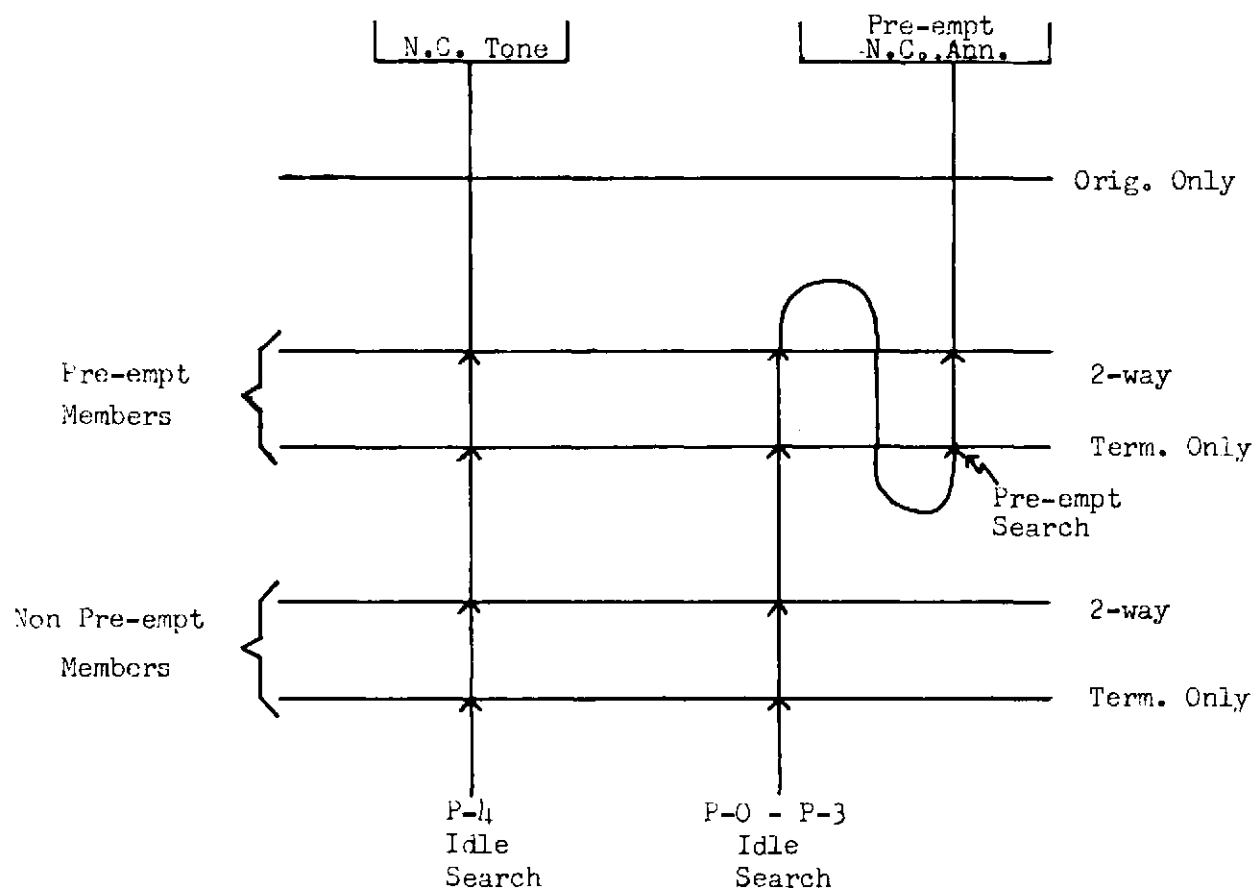
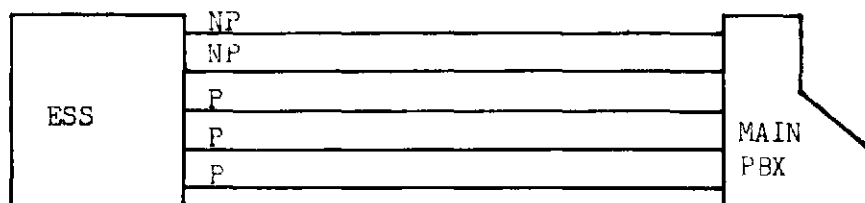


A. T. & T. Co.
L. L. Dept.
Sw. Svc.

AUTOVON ROUTING GUIDE

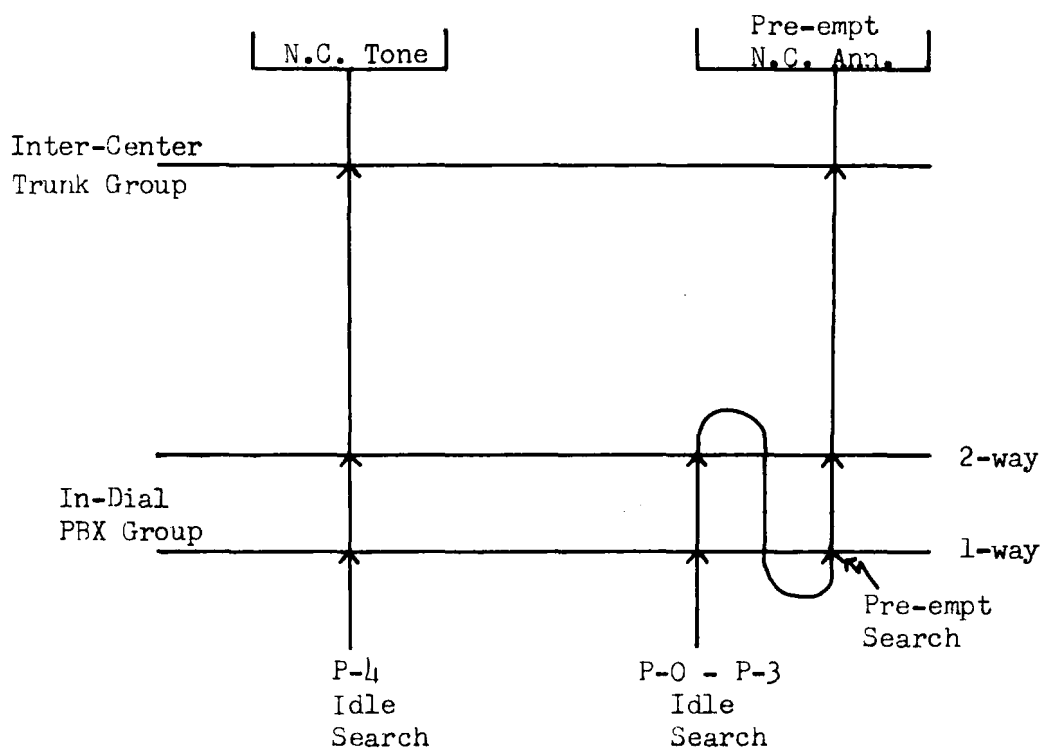
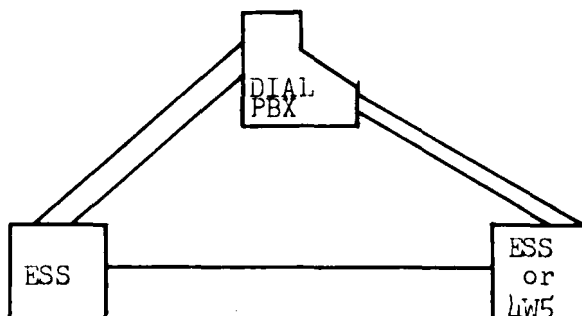
MULTI LINE HUNT GROUP SELECTION SPLIT GROUP ROUTING

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Establish the above search pattern by assigning the individual member numbers in ascending order.

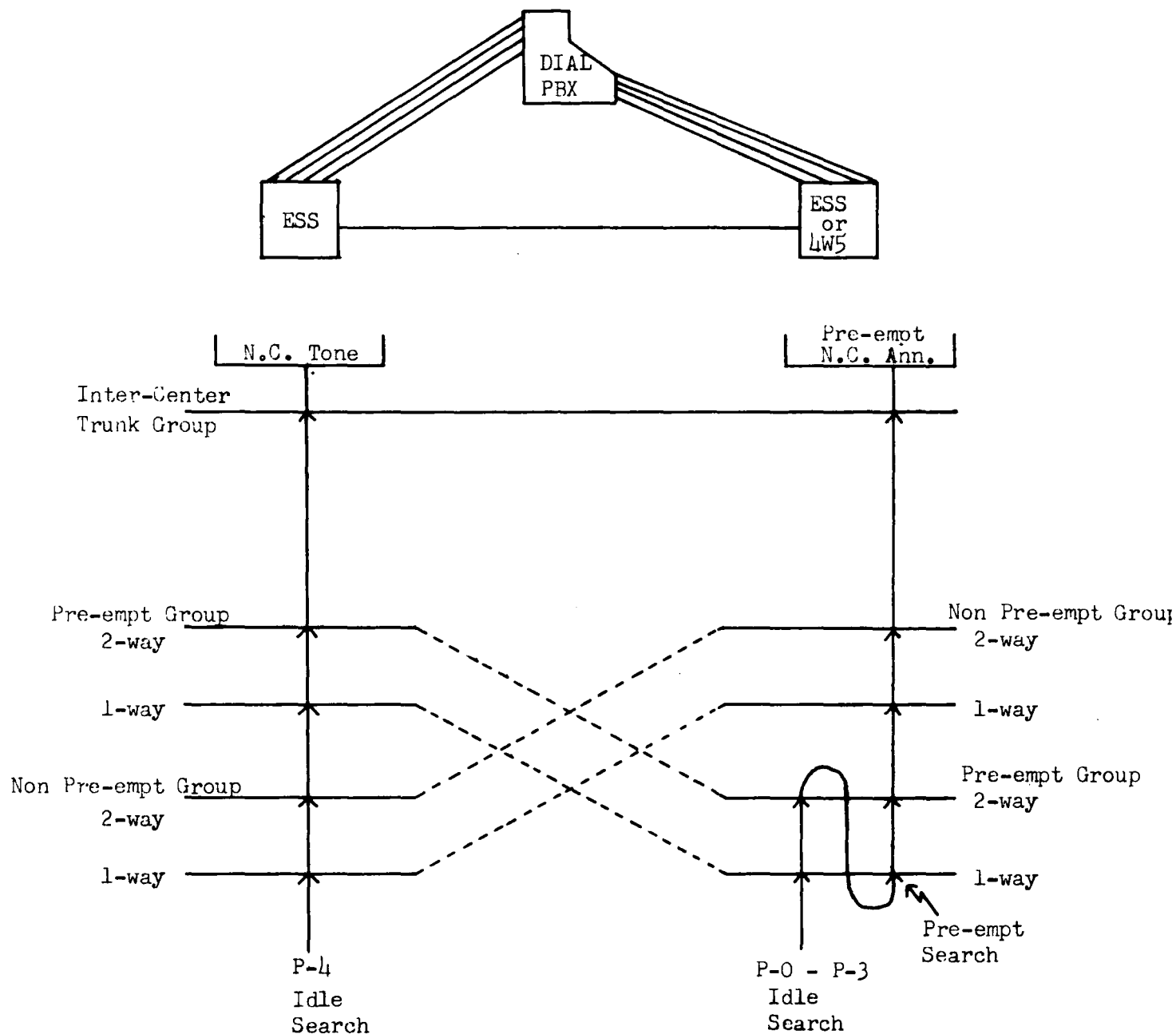
Lines are marked as Non-Tes.



Use Linked Route Index Technique (with extended routing) and Program Index 3

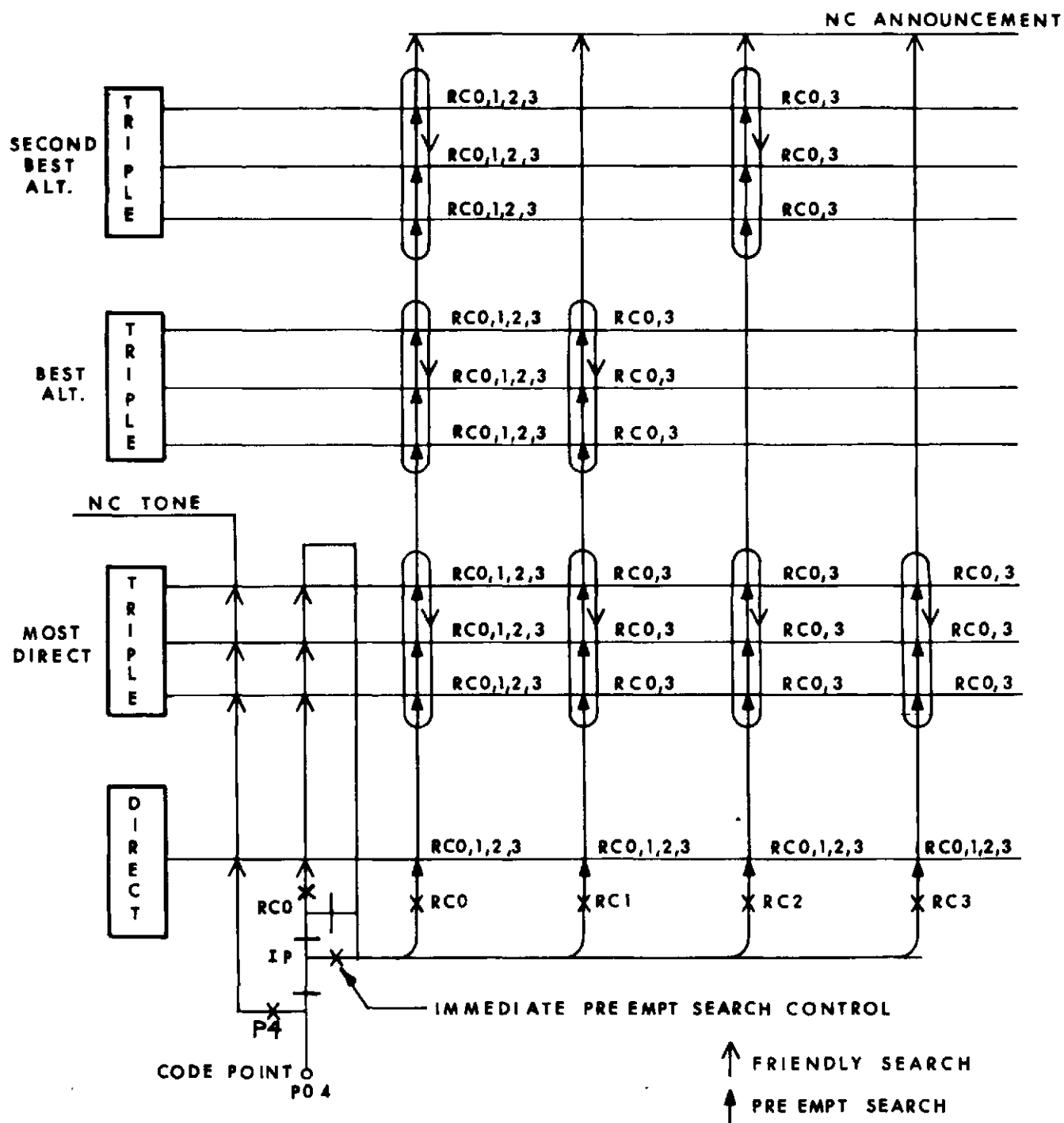
AUTOVON ROUTING GUIDE
TRUNK GROUP SELECTION
ESS SPLIT GROUP/DUAL HOMED ROUTING

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Revision 1
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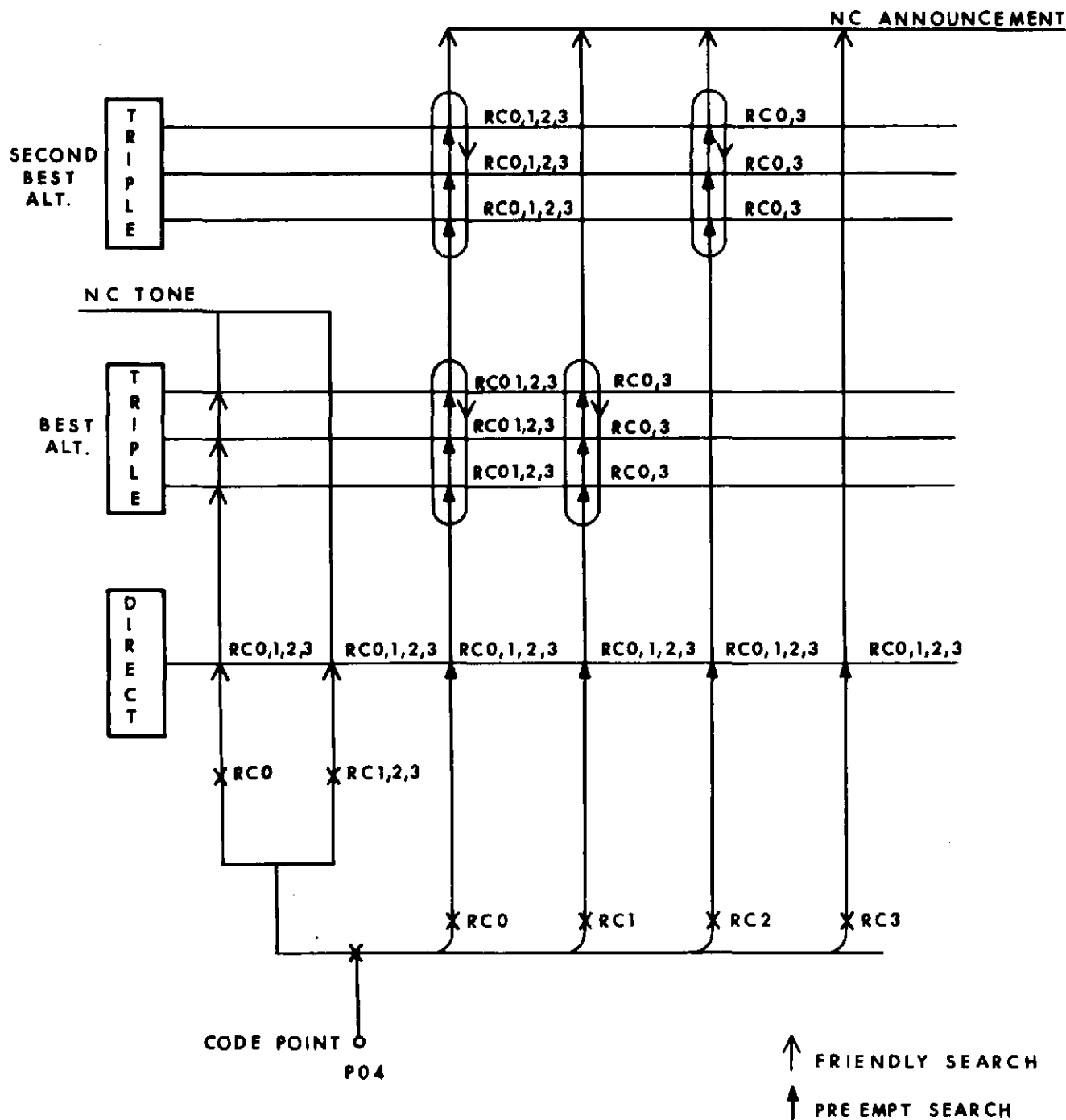
Use Linked Route Index Technique (with extended routing) and Program Index 3

AUTOVON ROUTING GUIDE **TRUNK GROUP SELECTION FOR AE WITH** **RCD CAPABILITY** **EXTERIOR ROUTING-VOICE GRADE**



**ONE GROUP AT A TIME SEARCH, TRUNK GROUP
ROTATION FOR PRECEDENCE CALLS**

AUTOVON ROUTING GUIDE **TRUNK GROUP SELECTION FOR AE WITH** **RCD CAPABILITY** **INTERIOR ROUTING-VOICE GRADE**

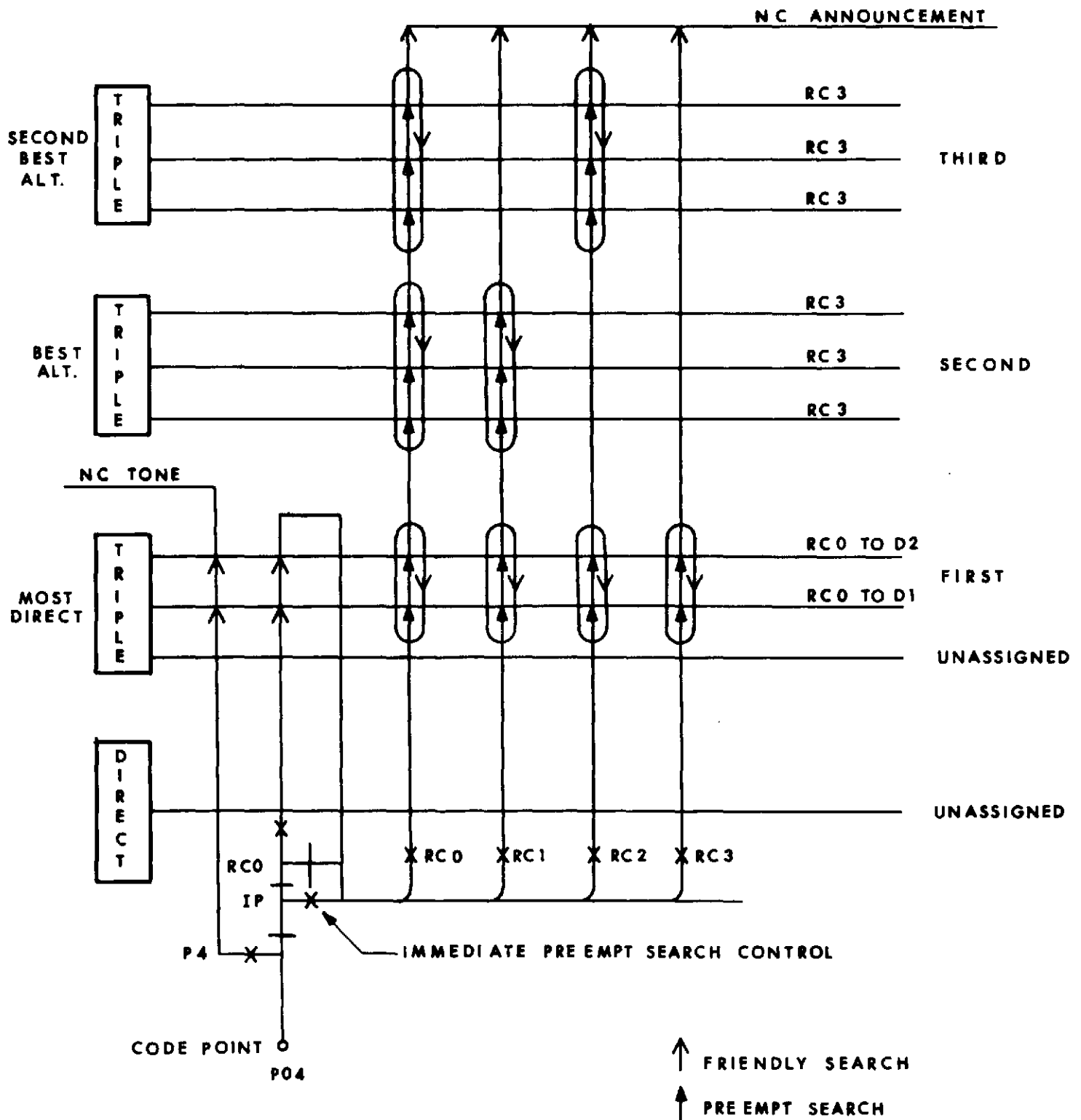


**ONE GROUP AT A TIME SEARCH, TRUNK GROUP
ROTATION FOR PRECEDENCE CALLS**

AUTOVON ROUTING GUIDE

TRUNK GROUP SELECTION FOR AE WITH RCD CAPABILITY

VOICE GRADE G12 CENTERS ROUTING TO D1 AND D2 OFFICES FROM A G12
OFFICE OR AN EXTERIOR OFFICE HAVING A DIRECT TRUNK GROUP TO D1 AND D2



AUTOVON ROUTING GUIDE **PBX ROUTING PATTERN FOR AE WITH** **RCD CAPABILITY VOICE GRADE**

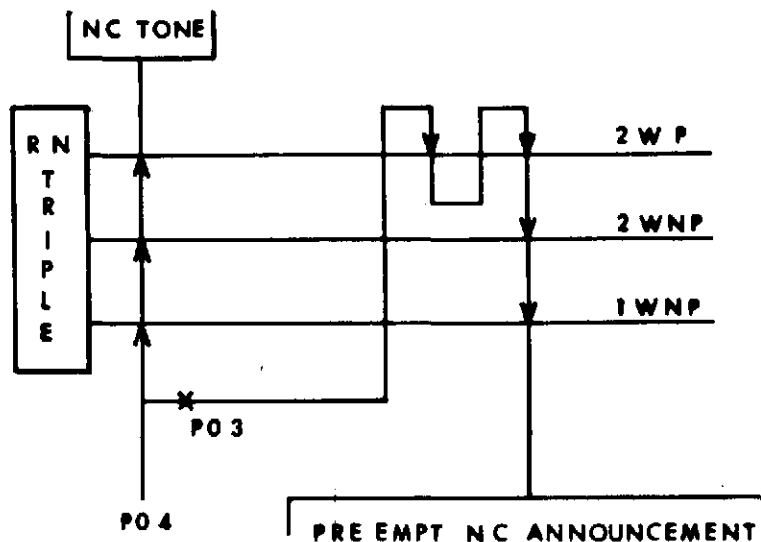


FIGURE 1

LEGEND :

2WP-2 WAY PREEMPTIBLE
2WNP-2 WAY NON-PREEMPTIBLE
1WNP-1 WAY NON-PREEMPTIBLE

↑ FRIENDLY SEARCH

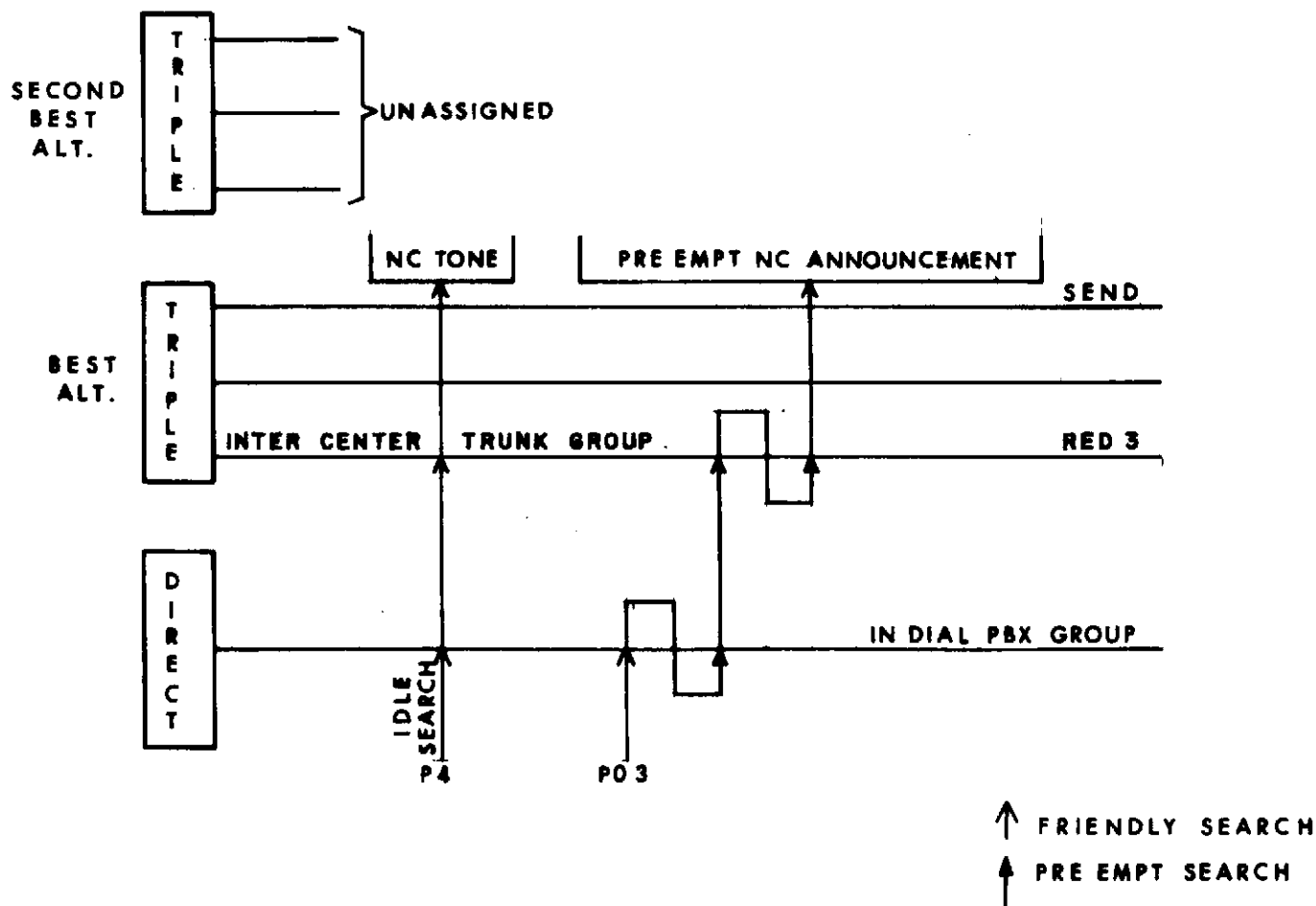
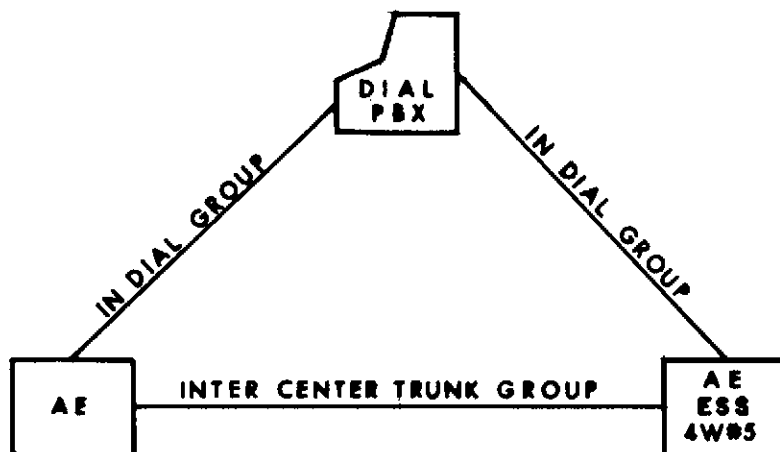
↑ PREEMPT SEARCH

NOTE :

FIGURE 1 IS A TYPICAL ARRANGEMENT FOR SPLIT GROUP ROUTING. THERE MAY BE OTHER COMBINATIONS OF 2-WAY, 1WAY, PREEMPT AND NON PREEMPT LINES HOWEVER, TERMINATING SEARCH IS LIMITED TO THREE TRUNK GROUPS. TO PERMIT THIS, SMALL QUANTITIES OF ACCESS LINES HAVING VARIABLE OUTWARD CALLING CAPABILITIES SHOULD BE GROUPED TOGETHER AND INDIVIDUALLY CLASS MARKED. IF CASES ARISE WHERE REQUIREMENTS CANNOT BE MET BY THIS ARRANGEMENT THEY SHOULD BE REFERRED TO DECCO FOR RESOLUTION BY DCA.

NO TRUNK GROUP ROTATION

AUTOVON ROUTING GUIDE TRUNK GROUP SELECTION AE DUAL HOMED PBX VOICE GRADE INTERIOR ROUTING



NO TRUNK GROUP ROTATION

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AUTOVON ROUTING GUIDE
MISCELLANEOUS CODE ASSIGNMENT

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AIR FORCE PERSONNEL CENTER (Intra-Office SW)

No Network Routing Required

<u>Switching Office</u>	<u>Codes Served</u>
Ennis	788

GLOBAL AUTOVON

1. General

1.0 The existing Autovon Network is a global system of switching centers in the United States (Conus) and overseas. Trunk groups, available to all valid traffic connect Autovon switching centers in the United States (Conus) to switching centers in Europe, Panama, and the Pacific.

2. Access

2.0 Access to overseas areas is to be limited to General Autovon access lines with a class of service as listed in the Autovon Routing Guide, Section 6. An overseas class of service will permit dialing the European, Caribbean, and Pacific areas. Alaska will continue to be available to all General Autovon users and is not limited to holders of overseas classes of service.

3. Trunking

3.0 Specific trunking arrangements and configurations will change as the Autovon network grows, and specific trunk arrangements will be issued as part of this section. The trunks between Conus and overseas will be common grade to carry Voice, Record/Data, Secure Voice traffic, plus Hot Line traffic. Trunk groups between Conus and overseas will be non-RCD groups. Route Control Digits will not be sent overseas and the Conus gateway switching centers will simulate a Route Control Digit of zero (0) on all calls received from overseas.

4. Switchable Regeneration

4.0 Since a common grade trunk group overseas will handle all calls, regeneration and security interface equipment will be required

on some calls. These equipments are to be inserted in the path of a call on an as required basis, and will be referred to as "Switchable" regenerators or security interface (S. I.) equipment. Switchable S. I. equipment is to be homed on the Conus gateway offices to Europe and the Pacific, and switchable regenerators will be provided at the overseas switching centers as required.

4.1 The switchable S. I. equipment will be placed at a location exterior to the serving switch center and will have two machine appearances, each of which will require a trunk termination. The trunk terminations will be back to back through the S. I. equipment, and a call accessing one of the trunk pair would go through the S. I. equipment and re-enter the same switch center for further call advancement on the second trunk of the trunk pair. Secure Voice calls, both to and from overseas, will access S. I. equipment by distinct NPA's. The switchable regenerators located overseas will also be accessed by distinct NPA's for Record Data and Secure Voice traffic. In all cases, it will be necessary to Code Convert when accessing switchable equipment in order to prevent access of more than one switchable equipment per call.

5. Traffic Measurements

5.0 All Conus offices are to include originating overseas calls in the Originating Destination Peg Count to the serving Conus dual-homed combination or gateway office. At the Conus gateway, Peg Count, Overflow, and TUR to all overseas switching centers are required. Calls from overseas are to score Originating Destination Peg Count for the proper Conus destination at the receiving gateway office.

6 Overseas and Conus Area Codes

	<u>Conus</u>	<u>Caribbean</u>	<u>Europe</u>	<u>Pacific</u>	<u>Alaska*</u>
Voice	312	313	314	315	317
Record/Data	712	713	714	715	---
Secure Voice	412	413	414	415	---
NPA' **	212	213	214	215	---
NPA'' **	512	513	514	515	---

* Alaska Code will be available to all General Autovon users, with no Record/Data or Secure Voice Codes established.

** NPA' is the machine generated code upon access to switchable security interface equipment.

** NPA'' is the machine generated code upon access to a switchable regenerator.

6.1 The 31X series is a dual use code, valid for Voice and Special Grade trunking in the overseas area, while the 41X and 71X series are only valid to Special Grade trunking overseas. The 31X series of codes are to be forwarded to overseas on a seven (7) digit basis, and the 41X and 71X or arbitrary codes are to be forwarded on a ten (10) digit basis to Europe and the Pacific. Caribbean will receive seven (7) digits in all cases from Conus.

7. Caribbean Routing

7.0 All offices route 313, 413, and 713 codes on a ten (10) digit basis to destination Ellisville. At Ellisville, perform 6 digit translation to deny invalid codes and pass all calls to Caribbean on a seven (7) digit basis.

8. European Routing

8.0 All offices route 314, 414, and 714 codes on a ten (10) digit basis to dual homed destination Cedar Brook-Pottstown. At Cedar Brook and Pottstown, access switchable security interface equipment with code 414, code convert to 214, and then codes 214, and 714 access one 6 digit translator, and code 314 another 6 digit translator to determine proper routing and denial of invalid codes.

9. Pacific Routing

9.0 All offices route 315, 415, and 715 codes on a ten (10) digit basis to dual homed destination San Luis Obispo-Lodi. At San Luis Obispo and Lodi, access switchable security interface equipment with code 415, code convert to 215. Access switchable regenerator equipment with code 715 and code convert to code 515. Codes 215 and 515 access one 6 digit translator and code 315 another 6 digit translator to determine proper routing and denial of invalid codes.

10. Trunk Groups

10.0 The present configuration will consist of the following Conus gateways:

Cedar Brook & Pottstown	-	Europe
Lodi & San Luis Obispo	-	Pacific
Ellisville	-	Panama

Trunk group selection should start at the lowest number trunk if the Conus office alphabetically precedes the other end.

If the overseas office alphabetically precedes the Conus office, the Conus office should start trunk selection at the highest numbered trunk.

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AUTOVON ROUTING GUIDE

SWITCHING OFFICE
CODE ASSIGNMENT

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Switching Office: Cedar Brook-Pottstown

Valid NNX Codes for Area Codes 314, 414, & 714

ITALY
Coltano

631
632
633
634
635

GERMANY
Donnersberg

431
432
433
434
435
437
438

GERMANY
Feldberg

440 447
441 448
442 462
443 465
444 472
445 473

ENGLAND
Hillingdon

231
232
234
235
236
237

SPAIN
Humosa

721
722
723
724
725
726
727
728

GERMANY
Langerkopf

420
421
422
423
424
425
426
427
428
429

ENGLAND
Martlesham-Heath

220 228
221 229
222 262
223 263
224 264
225 265
226 266

GREECE
Mt. Pateras

661 672
662 673
663 674
664 675
665 676
667 677
668 678
671 679

ITALY
Mt. Vergine

621
622
623
624
625
626
627

GERMANY
Schoenfeld

451
452
453
454
455

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L. L. Dept.
Sw. Svc.

AUTOVCN ROUTING GUIDE
SWITCHING OFFICE
CODE ASSIGNMENT
(OVERSEAS GENERAL AUTOVON)

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Switching Office: Ellisville

Valid NNX Codes for Area Codes
313, 413, and 713

221
222
281
282
283
284
285
286
287
288
289

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L. L. Dept.
w. Svc.

AUTOVON ROUTING GUIDE

SWITCHING OFFICE
CODE ASSIGNMENT
(OVERSEAS GENERAL AUTOVON)

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Issue Date 11-3-71

Switching Office: San Luis Obispo-Lodi

Valid NNX Codes for Area Codes 315, 415, & 715

PHILIPPINES
Clark

821
822
831
842
844
852
862
920 thru 989

GUAM
Fingayan

321 349
322 355
332 362
333 363
339 366
342 381
344 388

OKINAWA
Ft. Buckner

621
622
623
624
625
627
630
632
633
634
635
636
637
640

JAPAN
Fuchu

221 232
222 233
223 234
224 235
225 236
226 237
227 242
228 251
229 262
230 271
231 272

TAIWAN
Taipei

721
722
723
724
725
726
727

HAWAII
Wahiawa

421 448
426 454
430 458
431 459
432 460
433 461
434 462
435 465
436 466
437 486
441 490
443 491
444 493
445 494
446 495

AUTOVON ROUTING GUIDE
OVERSEAS ROUTING

FROM: Cedar Brook

FROM: San Luis Obispo

TO EUROPE			TO PACIFIC		
ATH	1st- NPS 2nd- POT 2 3rd- FEL	NPS	1st- NPS 2nd- POT 2 3rd- FEL	DAU	1st- DAU 2nd- LOD 2 3rd- WHW
CLO	1st- NPS 2nd- POT 2 3rd- FEL	SCH	1st- FEL 2nd- POT 2 3rd- HIN	FGB	1st- WHW 2nd- LOD 2 3rd-
DON	1st- FEL 2nd- POT 2 3rd- NPS		1st- 2nd- 3rd-	FJU	1st- FUU 2nd- LOD 2 3rd- WHW
FEL	1st- FEL 2nd- POT 2 3rd- HIN		1st- 2nd- 3rd-	PTA	1st- FUU 2nd- LOD 2 3rd- DAU, WHW
HIN	1st- HIN 2nd- POT 2 3rd- FEL		1st- 2nd- 3rd-	GRM	1st- DAU 2nd- LOD 2 3rd- FUU, WHW
HUM	1st- NPS 2nd- POT 2 3rd- HIN		1st- 2nd- 3rd-	WHW	1st- WHW 2nd- LOD 2 3rd-
LKF	1st- FEL 2nd- POT 2 3rd- HIN		1st- 2nd- 3rd-		1st- 2nd- 3rd-
MAM	1st- HIN 2nd- POT 2 3rd- FEL		1st- 2nd- 3rd-		1st- 2nd- 3rd-

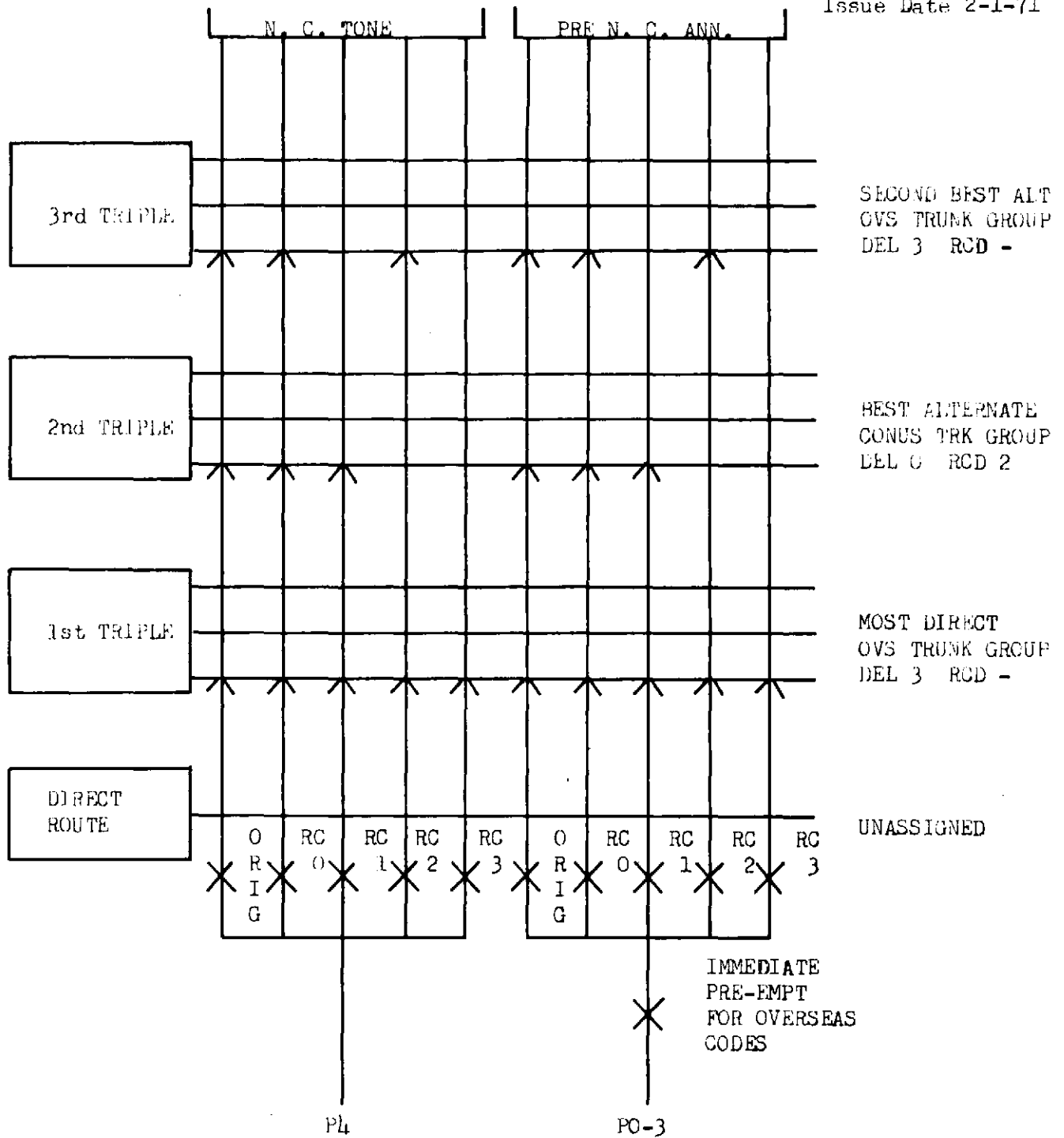
FROM: Pottstown

FROM: Lodi

TO EUROPE			TO: PACIFIC		
ATH	1st- NPS 2nd- CED 2 3rd- FEL	NPS	1st- NPS 2nd- CED 2 3rd- FEL	DAU	1st- DAU 2nd- SLO 2 3rd- WHW
CJO	1st- NPS 2nd- CED 2 3rd- FEL	SCH	1st- FEL 2nd- CED 2 3rd- HIN	PGB	1st- WHW 2nd- SLO 2 3rd-
DON	1st- FEL 2nd- CED 2 3rd- NPS		1st- 2nd- 3rd-	FUU	1st- FUU 2nd- SLO 2 3rd- WHW
FEL	1st- FEL 2nd- CED 2 3rd- HIN		1st- 2nd- 3rd-	FTA	1st- FUU 2nd- SLO 2 3rd- DAU, WHW
HIN	1st- HIN 2nd- CED 2 3rd- FEL		1st- 2nd- 3rd-	GRM	1st- DAU 2nd- SLO 2 3rd- FUU, WHW
HUM	1st- NPS 2nd- CED 2 3rd- HIN		1st- 2nd- 3rd-	WHW	1st- WHW 2nd- SLO 2 3rd-
LKF	1st- FEL 2nd- CED 2 3rd- HIN		1st- 2nd- 3rd-		1st- 2nd- 3rd-
MAM	1st- HIN 2nd- CED 2 3rd- FEL		1st- 2nd- 3rd-		1st- 2nd- 3rd-

OVERSEAS AUTOVON
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CODES ROUTED OVERSEAS ON A 7D BASIS

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USE PRN TYPE - EXT "B" (NO ROTATION)

THE THREE TRUNK GROUPS ARE
ASSIGNED TO THE FIRST ROUTE
IN THE FIRST, SECOND, AND
THIRD TRIPLES.

OVERSEAS AUTOVON
TRUNK GROUP SELECTION-PRN ASSIGNMENT
CODES ROUTED OVERSEAS ON A 10D BASIS

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	N. C. TONE					PRE N. C. ANN.				
3rd TRIPLE										
2nd TRIPLE										
1st TRIPLE										
DIRECT ROUTE	O R I G	RC 0	RC 1	RC 2	RC 3	O R I G	RC 0	RC 1	RC 2	RC 3

P4

PO-3

SECOND BEST ALT
OVS TRUNK GROUP
DEL O RCD -

BEST ALTERNATE
CONUS TRK GROUP
DEL O RCD 2

MOST DIRECT
OVS TRUNK GROUP
DEL O RCD -

UNASSIGNED

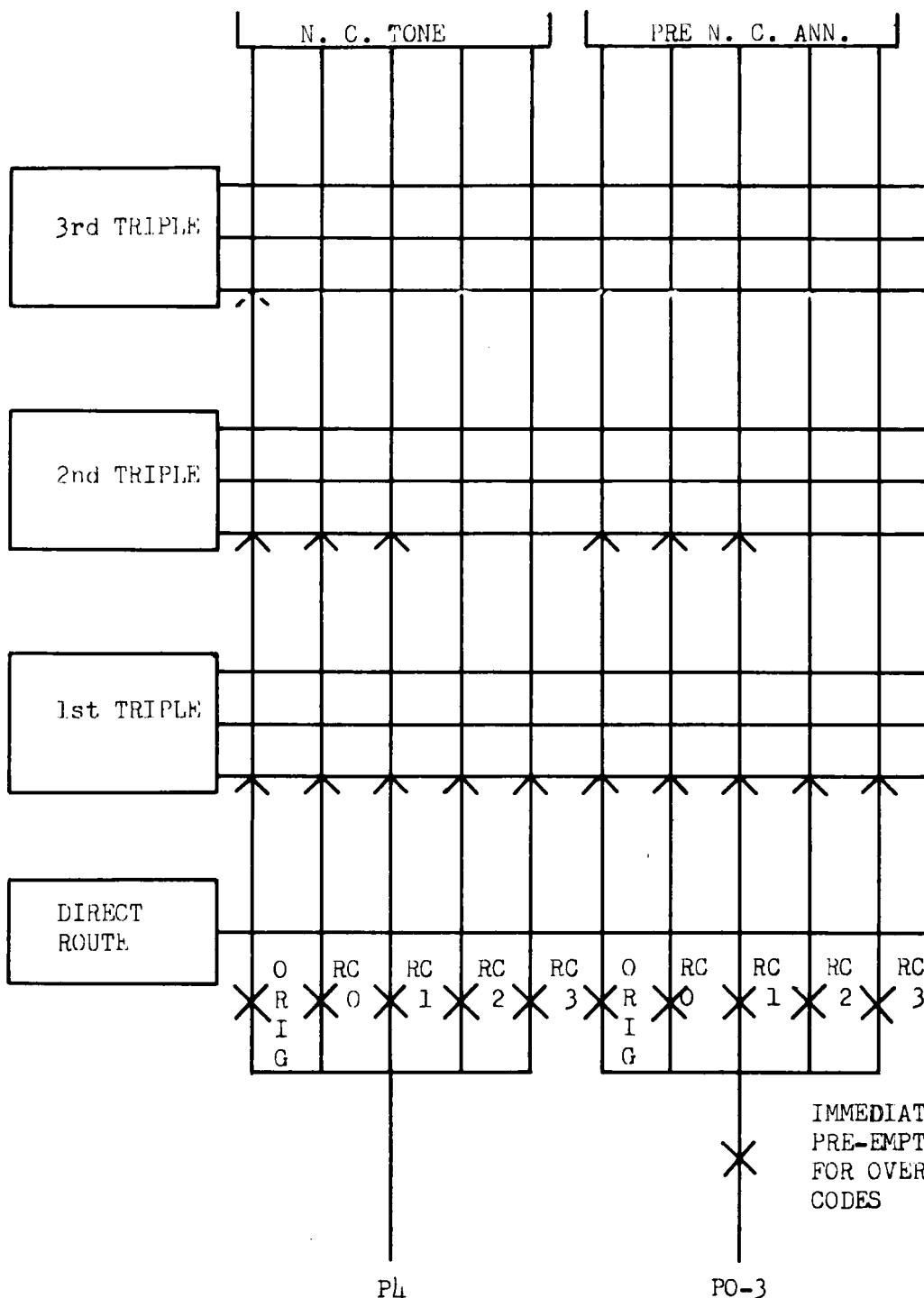
IMMEDIATE
PRE-EMPT
FOR OVERSEAS
CODES

THE THREE TRUNK GROUPS ARE
ASSIGNED TO THE FIRST ROUTE
IN THE FIRST, SECOND, AND
THIRD TRIPLES

A. T. & T. Co.
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Sw. Svc.

OVERSEAS AUTOVON
TRUNK GROUP SELECTION-PRN ASSIGNMENT
SWITCHABLE REGENERATORS
AND KEY CHANGERS

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BEST ALTERNATE
CONUS TRK GROUP
DEL 0 RCD 3

MOST DIRECT
SWITCHABLE EQUIPMENT
DELETE & PREFIX
AS NOTED IN THIS
SECTION.

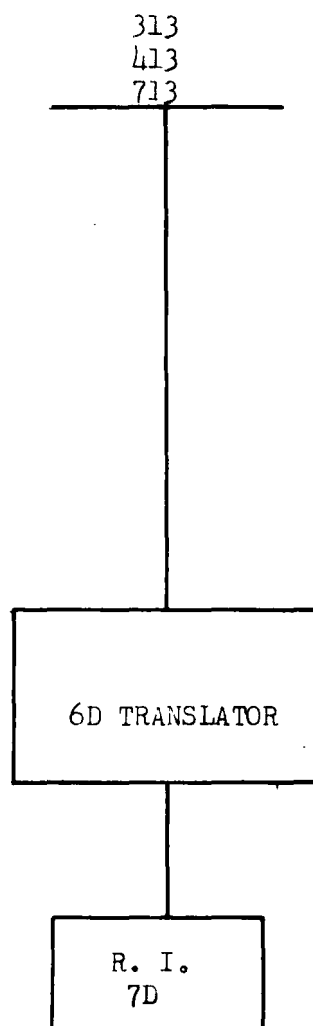
USE PRN TYPE - EXT "B" (NO ROTATION)

THE THREE TRUNK GROUPS ARE
ASSIGNED TO THE FIRST ROUTE
IN THE FIRST, SECOND, AND
THIRD TRIPLES

A. T. & T. Co.
I. L. Dept.
Sw. Svc.

CONUS GATEWAY
CODE TREATMENT TO CARIBBEAN

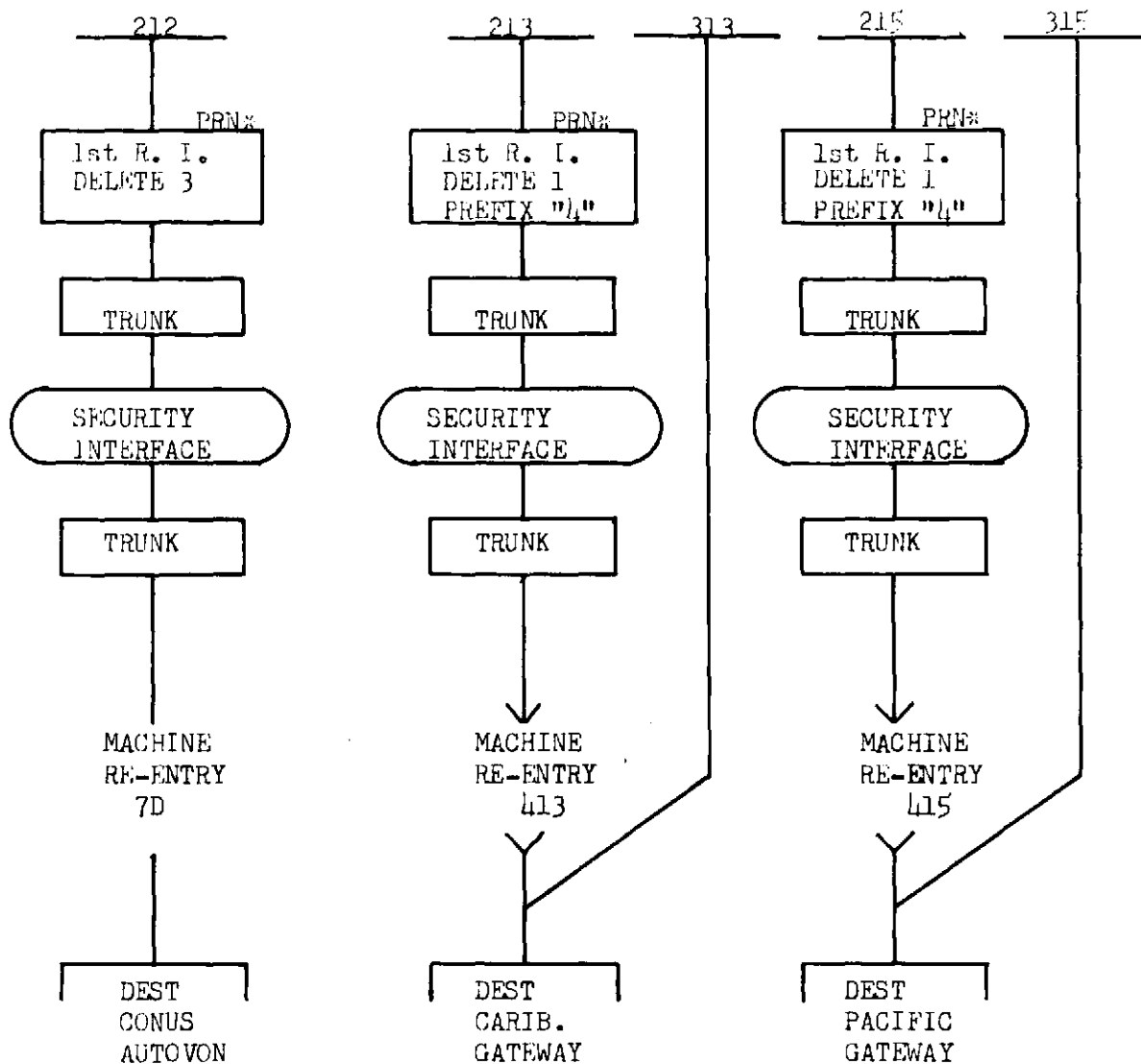
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L. I. Dept.
Sw. Svc.

CONUS GATEWAY
CODE TREATMENT FROM EUROPE

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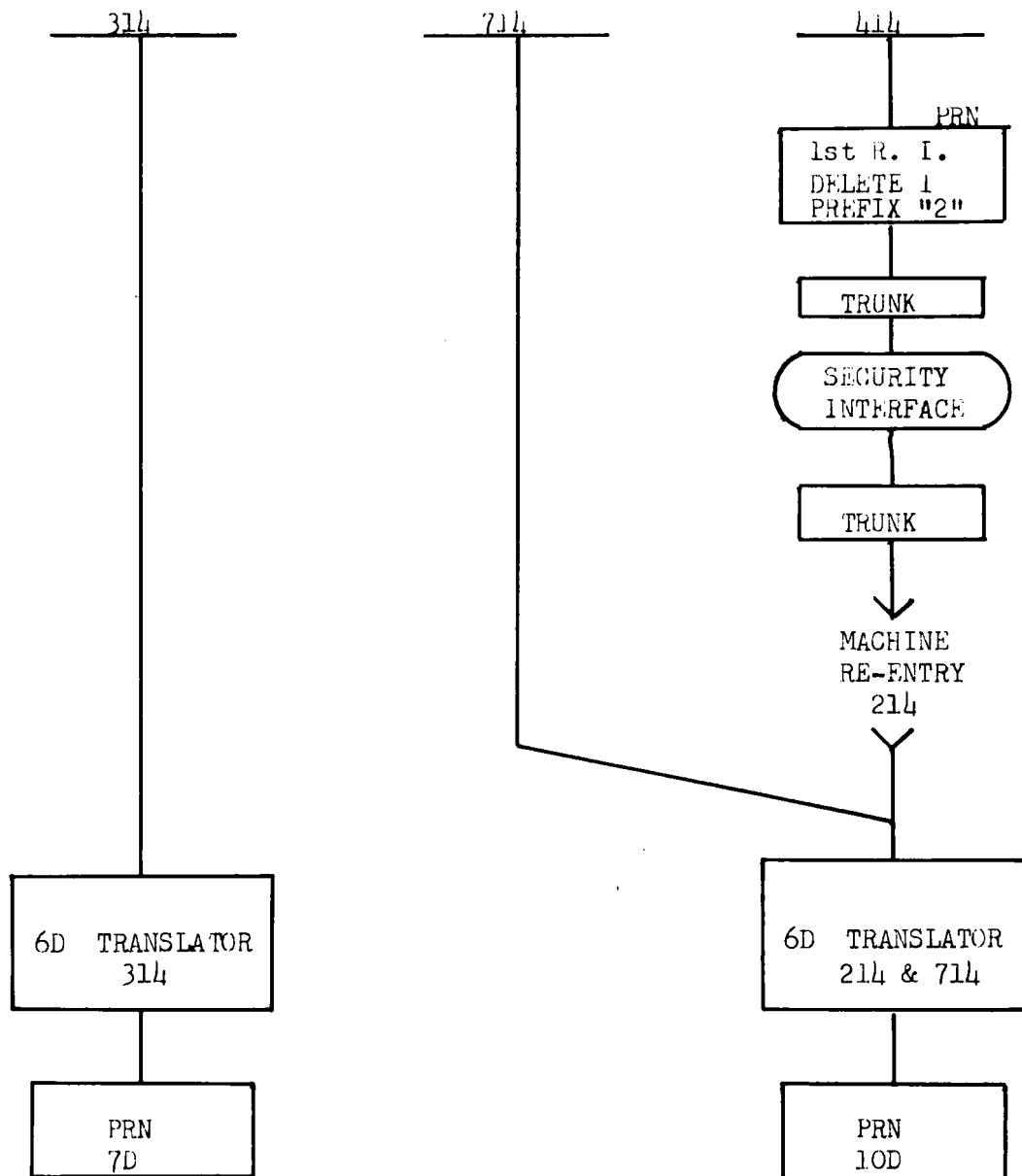


* SWITCHABLE EQUIPMENT PRN

A. T. & T. Co.
I. L. Dept.
Sw. Svc.

CONUS GATEWAY
CODE TREATMENT TO EUROPE

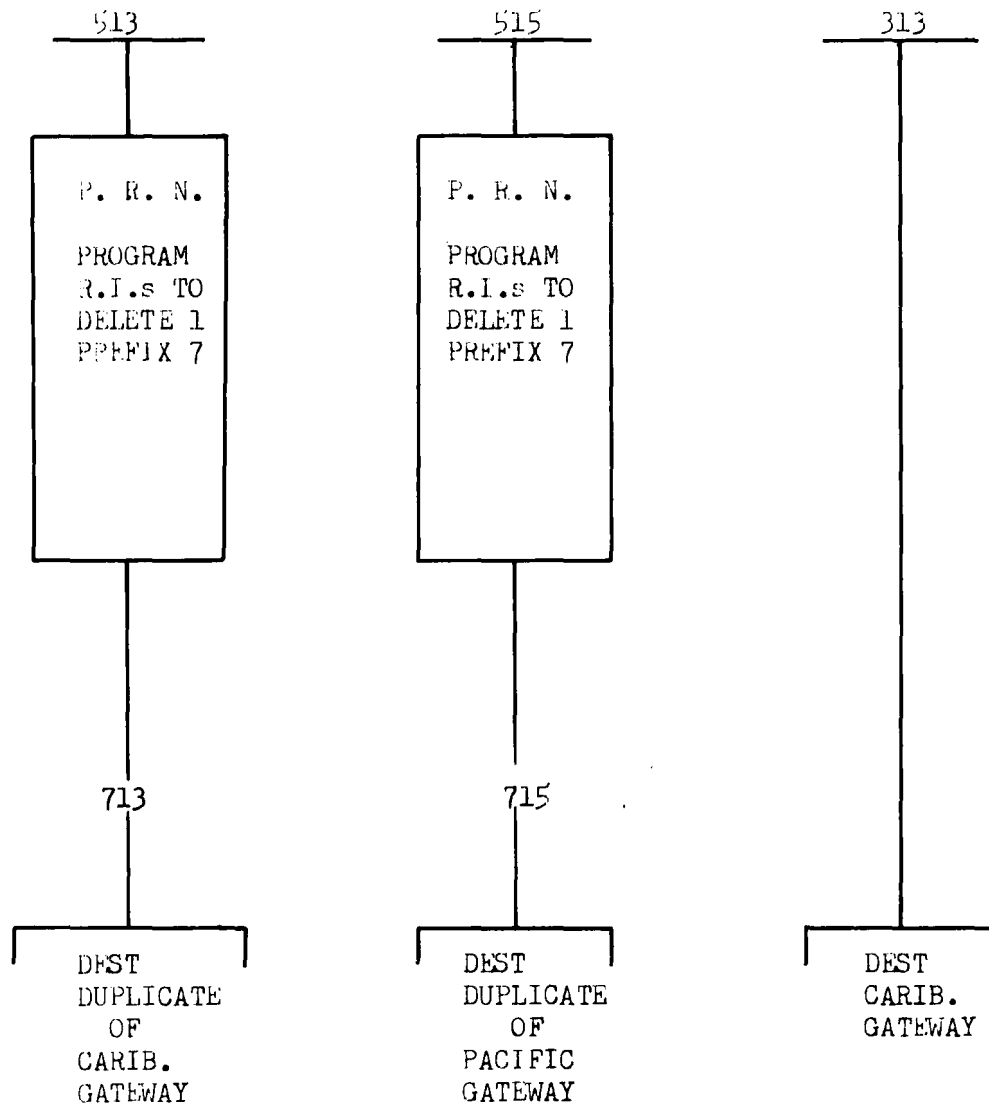
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I. I. Dept.
Sw. Svc.

CONUS GATEWAY
CODE TREATMENT FROM EUROPE

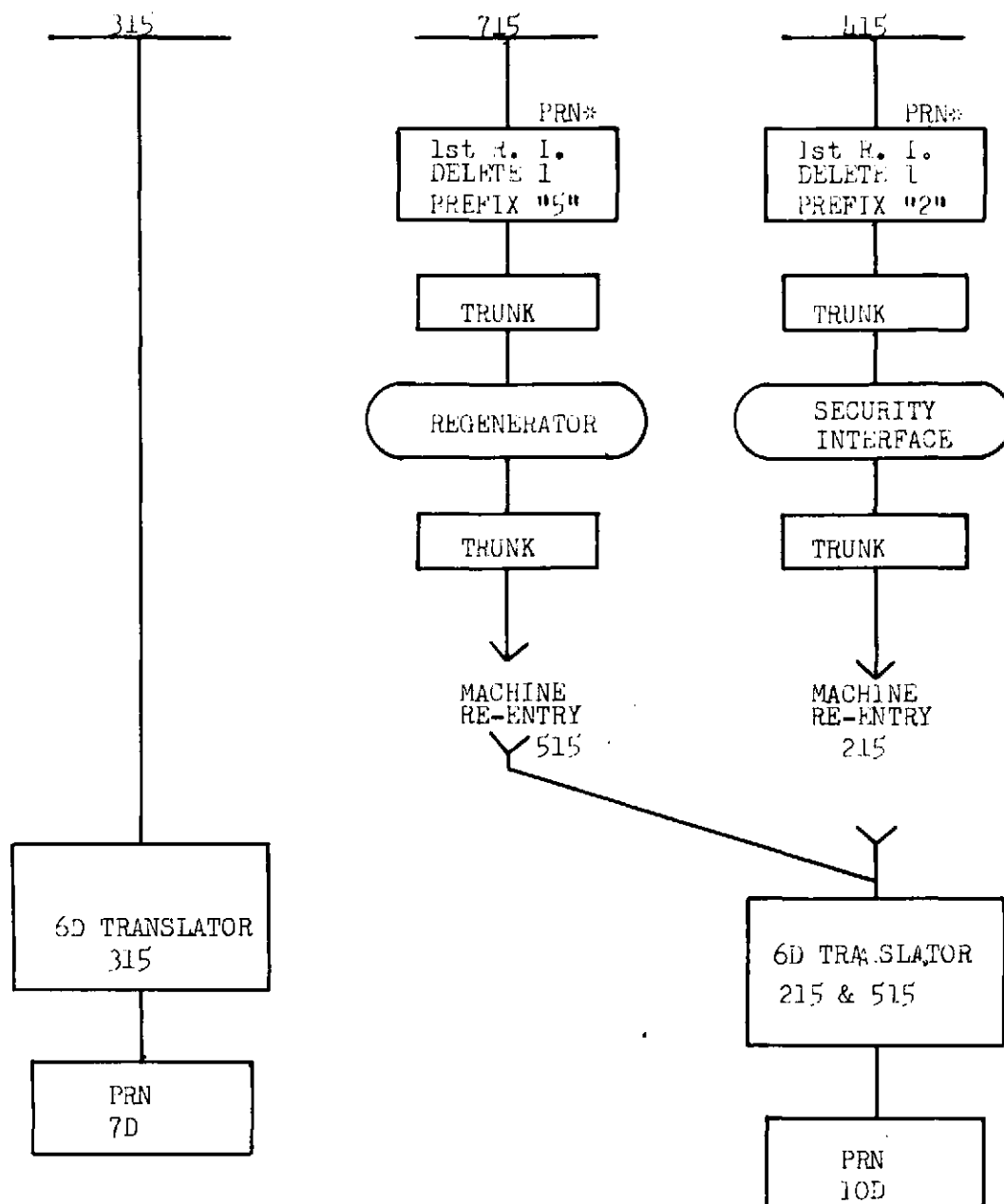
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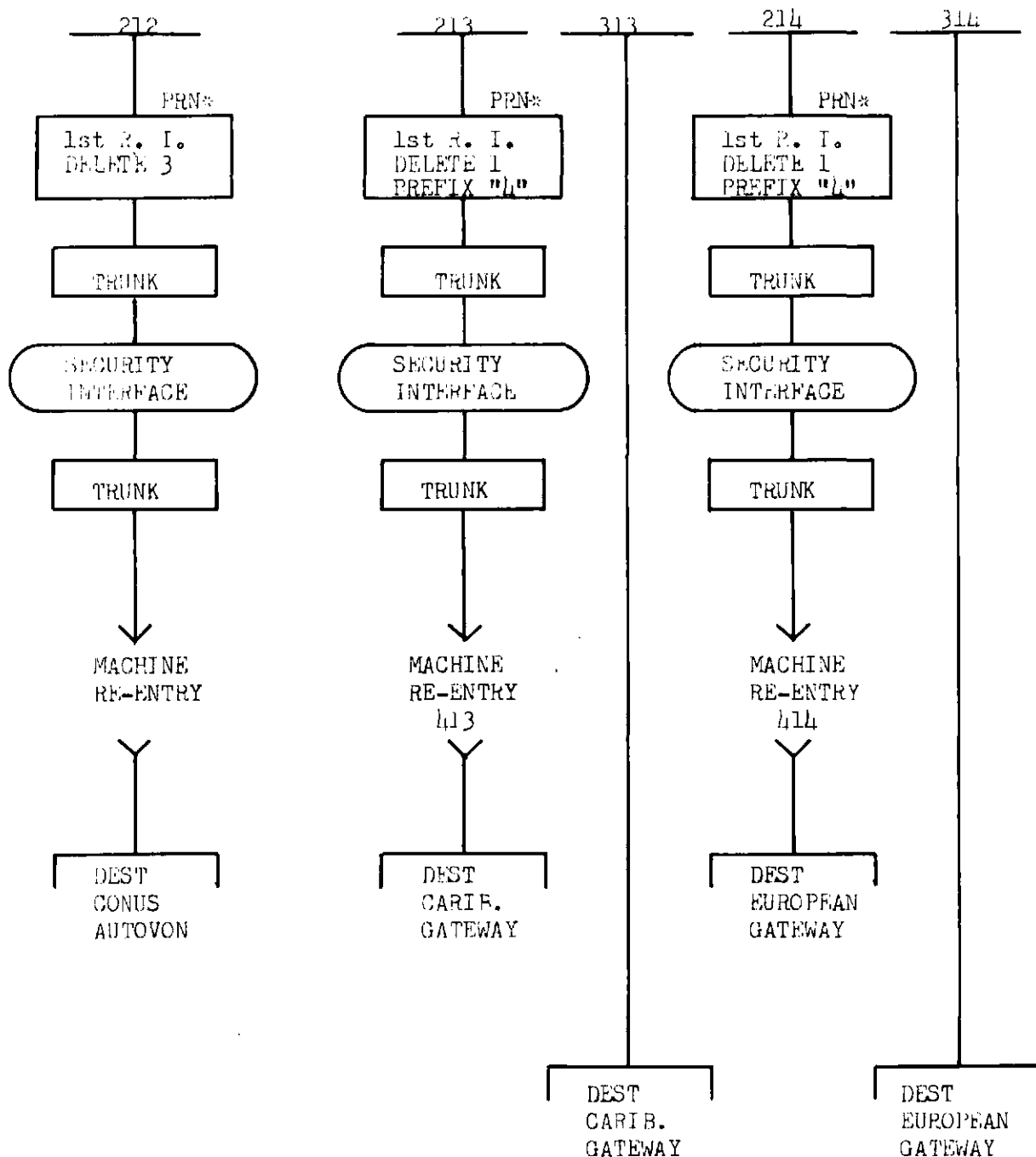
CONUS GATEWAYS

CODE TREATMENT TO PACIFIC

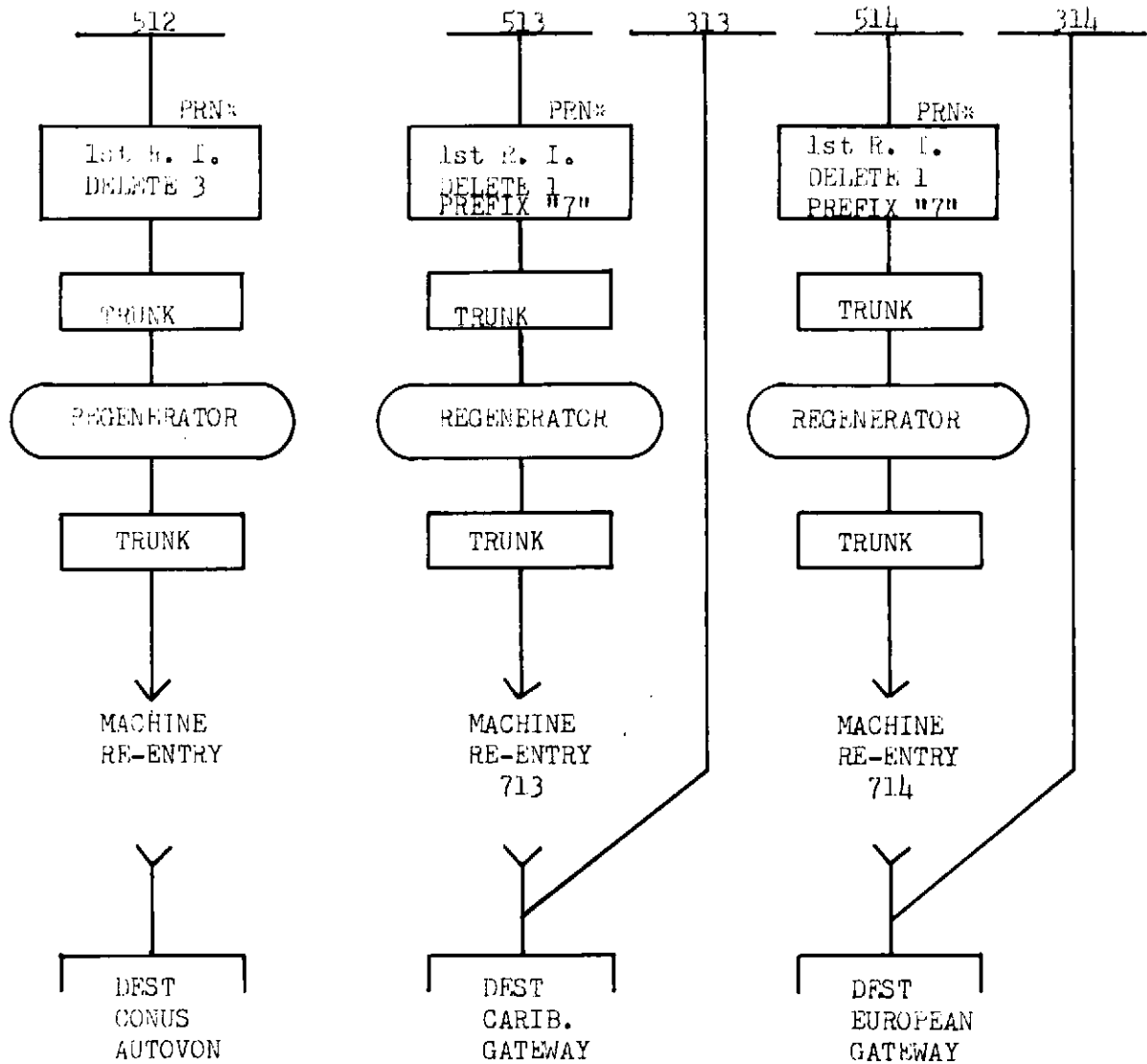
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* SWITCHABLE EQUIPMENT PRN



* SWITCHABLE EQUIPMENT PRN



* SWITCHABLE EQUIPMENT PRN