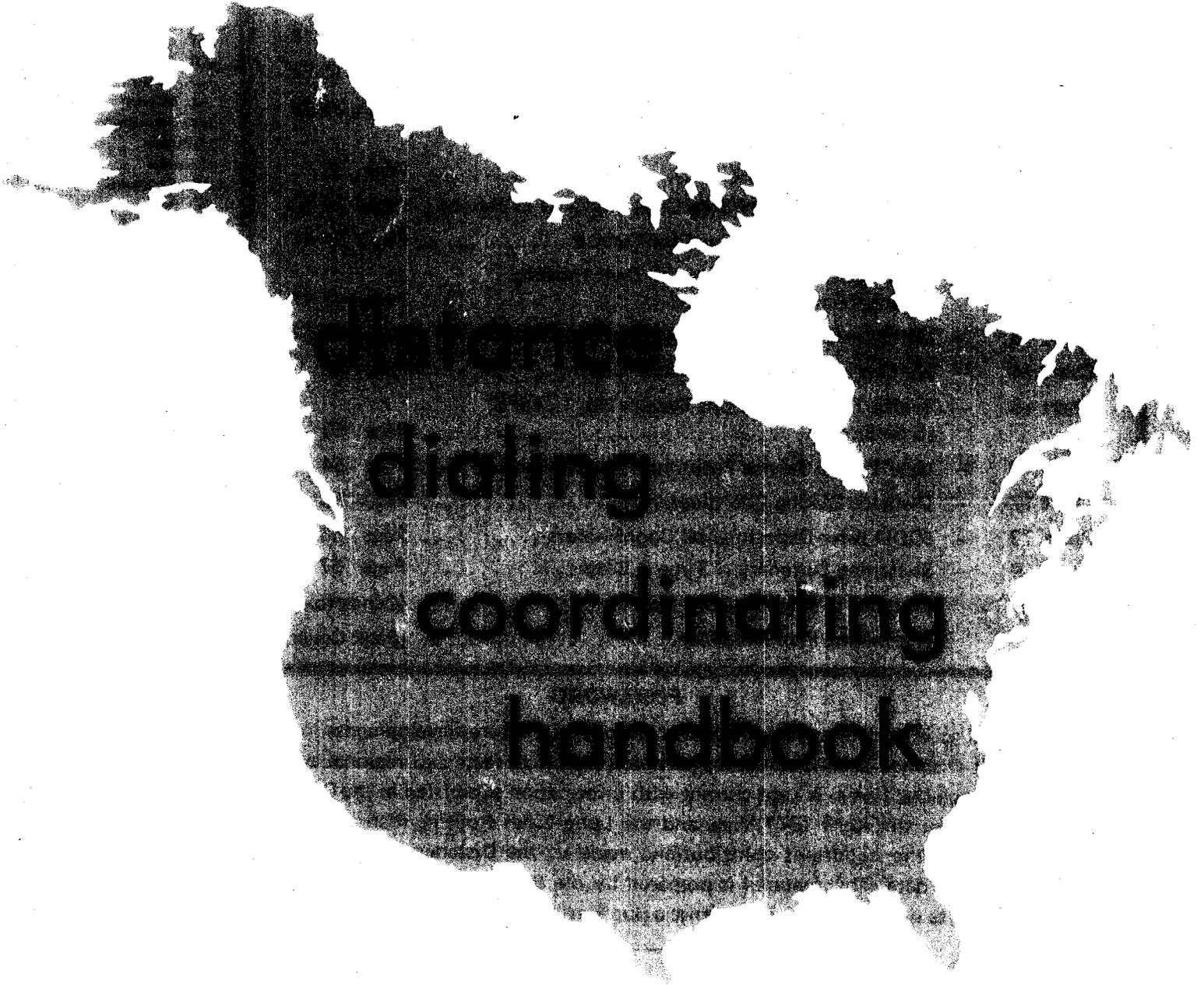


1977



distance dialing coordinating handbook



Vol. 16 Issue 1

Chart 1	— Distance Dialing Statistics	Page 1
Chart 2	— Nationwide Cutover Dates.	Page 2
Chart 3	— New Facilities and Features for Distance Dialing.	Pages 3- 6
Chart 4	— No. 4ESS Type Systems in Service	Page 7
Chart 5	— No. 4 Type Toll Crossbar Offices in Service	Pages 8-13
Chart 6	— Bell System No. 1ESS/1AESS Tandem Systems in Service.	Pages 14-15
Chart 7	— Crossbar Tandems in Service.	Pages 16-24
Chart 8	— Bell System No. 5 Crossbar Class 3 & 4 in Service.	Pages 25-29
Chart 9	— Bell System Step-by-Step CAMA and CSP's in Service.	Page 30
Chart 10	— Bell System Step-by-Step Class 4 Offices in Service.	Pages 31-33
Chart 11	— New Toll Offices Planned for Service	Pages 34-41
Chart 12A-F	— Control Switching Points and their Homing Arrangements	Pages 42-47
Chart 13	— Common Channel Interoffice Signaling (CCIS).	Pages 48-51
Chart 14	— Numbering Plan Area Principal Cities	Page 52
Chart 15	— Traffic Service Positions System No. 1 (TSPS) In Service	Page 53
Chart 16	— New Traffic Service Positions Systems Planned.	Page 54
Chart 17	— Distance Dialing Coordinators.	Page 55
Chart 18	— IDDD Inter-Departmental Coordinators	Page 56
Chart 19	— Switching Summary — Type & Class	Page 57
	Distance Dialing Network Map	(Centerfold)
	Numbering Plan Area Map.	(Back Cover)

**Distance Dialing
Coordinating
Committee**
J.J. Lawser
F.H. Parkinson
W.S. Hinckley
C.A. Pfitzinger
G.P. O'Reilly
J.R. Tamburrino
L.A. Ratliff
J.L. Macher
R.A. Hamilton
H. Power
R. Lehle
A.C. Soldavini
R.J. Craig
P.K. Bohacek
R.F. Elson

Mailing Address
Rm 5254B1
295 No. Maple Ave.
Basking Ridge, N.J.
07920
201-221-3875

FOREWORD

This handbook is intended to provide information about future developments in the Distance Dialing program, current Distance Dialing statistics, pertinent historical facts and regional switching plan arrangements. The data included herein is kept current with information submitted in the Companies' Construction Budget Summaries for the April 1977 View and the Long Lines Routing Plan. The Distance Dialing Committee acknowledges the important contributions made by the Distance Dialing Coordinators in keeping this handbook up to date. This material is prepared by the Bell System for Distance Dialing Coordination Information only. Its distribution is in no sense a publication.

NOTICE

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

Construction Plans Department

Chart 1

DISTANCE DIALING STATISTICS APRIL 1977 CONSTRUCTION BUDGET VIEW

LONG DISTANCE MESSAGES-BELL OPERATED (During Year-Millions)	1976 (Actual)		1977		1978	
Intrastate (Inc. SNE & Cinn.)* ϕ	7448.3		8038.3		8698.1	
Interstate (Inc. SNE & Cinn.)* ϕ	4386.0		4707.1		5062.0	
% Dialed by Customers (DDD)*	82.9		83.8		84.6	
% Dialed by Operators (DDD)*	9.6		7.7		5.9	
% Customer Dialed Operator Serviced (TSPS, TSP)*	7.5		8.5		9.4	
% Outward International DDD*	22.5		30.1		37.2	
TELEPHONES (End of Year - Millions)	Bell Cos.	Non-Bell	Bell Cos.	Non-Bell	Bell Cos.	Non-Bell
Total Main Tels. & Equiv. Main Tels	72.3	18.1	74.9	19.0	77.6	19.0
Equipped for DDD	71.9	17.8	74.6	18.6	77.4	18.5
Equipped for IDDD	20.6	\times	22.1	\times	26.2	\times
Served by TSPS or Equivalent	49.6	\times	57.1	\times	66.3	\times
With ANC Numbering	71.0	17.9	73.8	18.8	76.9	19.7
Operator Identified	4.2	\times	3.2	\times	2.4	\times
Automatically Identified - LAMA	37.6	\times	42.5	\times	47.0	\times
" " - ANI	30.1	\times	29.7	\times	28.0	\times
TOLL MESSAGE NETWORK TRUNKS (End of Year-Thousands)						
Intertoll-Owned	712.2	\times	763.4	\times	804.1	\times
Toll Connecting-Owned	1535.6	\times	1639.8	\times	1738.0	\times
Total-Owned	2247.8	\times	2403.2	\times	2542.1	\times
TOLL OFFICE DATA (End of Year)						
Local Central Office Buildings	8034	\times	8679	\times	8711	\times
Traffic Toll Centers (Toll offices of any rank providing inward operator assistance)	737	454	648	443	564	434
Toll Centers Equipped With CAMA	563	412	525	410	449	405
Total Toll Positions	46709	\times	42688	\times	37309	\times
TSPS and TSP Positions (included above)	19038	\times	20622	\times	21874	\times

"Bell Cos." includes Bell System Operating Companies plus Southern New England and Cincinnati Bell.
 "Non-Bell" Companies include Independent Companies in the territory served by the above Bell Companies.
 All data excludes Canada.
 *This data for Bell Companies. ϕ -on MA #9 Basis

ORDERING INFORMATION

To obtain additional copies of this handbook, use your Company's standard B.S.P. order form worded as follows:
 (Quantity) Distance Dialing Coordinating Handbook, (100-040), dated 1977. Send through normal channels
 To: Western Electric Co., Inc., Indiana Publication Center, P.O. Box 26205, Indianapolis, Ind. 46226

Chart 2

**CUTOVER DATES FOR DISTANCE DIALING
ACTIVITIES REQUIRING NATIONWIDE ROUTING CHANGES**

MONTH	1978	1979	1980	1981	1982
January	7-21	6-20	5-19	3-17	2-16
February	4-18	3-17	2-16	7-21	6-20
March	4-18	3-17	1-15-29#	7-21	6-20
April	1-15	7-21	19	4-25*	3-17
May	6-20	5-19	3-17	2-16	1-15
June	3-24*	2-23*	7-21	6-27*	5-26*
July	1-15	7-21	5-19	11*-18	3-17
August	5-19	4-18	2-16	1-15	7-21
September	2-16	1-15	6-20	5-19	4-18
October	7-21	6-20	4-18	3-17	2-16
November	4-18	3-17	1-15	7-21	6-20
December	2-16	1-15	6-20	5-19	4-18

NOTE: These dates are the first and third Saturdays of each month except when they fall on major holidays or immediately precede Easter, Mother's Day, or Father's Day.

*deferred one week
#advanced one week

Cutover Hour	
Time Zone	Saturday
	Nationwide time
Atlantic	3:00 PM
Eastern	2:00 PM
Central	1:00 PM
Mountain	12:00 Noon
Pacific	11:00 AM
Alaska** & Hawaii	9:00 AM

** Anchorage, Fairbanks

PRINCIPAL NEW FACILITIES AND FEATURES FOR DISTANCE DIALING
AVAILABLE OR PLANNED FOR SHIPMENT IN THE NEXT THREE YEARS

SUBJECT (NOTE 1)	SOURCE GL	SHIP DATE (2)	APPLICATION											
			PNL/SXS	1/5XB	1/2/3 ESS	XBT	4XB	4 ESS	TSP (S)	IDDD	MINI-CMPTR	OTHER		
Route Verification Administrative Practice	76-06-121	-				X								
Echo Suppressor Terminal (EST)	76-06-166 (EL4503)	-							X					
Network Management	76-08-193	-							X					
Common Channel Interoffice Signaling (CCIS) Conversion Planning	76-08-261 (EL4438/ PL3067)	-												CCIS
Network Administration - Identification Codes for Recorded Announcements	76-08-263	-												
Generic 4El Features for No. 4ESS	76-10-003 (EL3304)	-							X					
Billing Data Transmitter	76-10-011 (EL4593)	NOW	X	X		X	X							
Modification of the 4A Crossbar Sender Test Frame for Automation and CCIS Operation	76-10-066 (EL4825)	-						X						CCIS
Planning Considerations for Application of CAROT (Centralized Automatic Reporting on Trunks) and TFMS (Trunk and Facility Maintenance System) in a No. 4 Crossbar Environment	76-10-166 (EL4535/ PL3085)	-						X						
Interface Arrangements for the Engineering and Administration Data Acquisition System/Network Management (EADAS/NM)	76-11-243 (EL4569)	NOW				X								

PRINCIPAL NEW FACILITIES AND FEATURES FOR DISTANCE DIALING
AVAILABLE OR PLANNED FOR SHIPMENT IN THE NEXT THREE YEARS

SUBJECT (NOTE 1)	SOURCE GL	SHIP DATE (2)	APPLICATION									
			PNL/SXS	1/5XB	1/2/3 ESS	XBT	4XB	4 ESS	TSP (S)	IDDD	MINI-CMPTR	OTHER
No. 1ESS, TSPS No. 1, No. 4XB/ETS - Centralized Automatic Trouble Locating and Analysis System (CATLAS)	76-12-092	-			X		X		X			ETS
Message Protocol for Communication Between EADAS and EADAS/NM. Final Specification Including Reverse Control, Discrete, Interconnection and Register Quantity Specifications	76-12-103	-		X		X						
Mechanized Trunk Assignment System (MTA)	76-12-133	1Q77					X					
Common Systems - Remote Office Test Line (ROTL) and 105 Test Lines for No. 1 ESS HILO Project	76-12-135 (EL5089)	NOW			X							
Common Channel Interoffice Signaling (CCIS)	76-12-217											CCIS
Semiconductor Store for Use as Program and Call Store in 1A Processor	77-01-008 (EL 5080)	NOW			X			X				1A Processor
Directory Assistance Charging	77-01-015 (EL4895)	NOW	X									
Trunks for Direct INWATS Completion to No. 3A ACD	77-01-143 (EL4962)	-					X					
Directory Assistance Charging	77-01-161 (EL4920)	NOW		X								
Directory Assistance Charging	77-01-169 (EL 4971)	NOW		X								

PRINCIPAL NEW FACILITIES AND FEATURES FOR DISTANCE DIALING
AVAILABLE OR PLANNED FOR SHIPMENT IN THE NEXT THREE YEARS

SUBJECT (NOTE 1)	SOURCE GL	SHIP DATE (2)	APPLICATION											
			PNL/SXS	1/5XB	1/2/3 ESS	XBT	4XB	4 ESS	TSP (S)	IDDD	MINI-CMPTR	OTHER		
CCIS-1976-1980 Planning Information and Proposed Implementation Schedules	77-01-186 (EL5510)	-												CCIS
Transfer of CAMA Calls Requiring Operator Identification to TSPS	77-02-085 (EL5155)	NOW		X							X			
CAROT/ROTL - Manually Controlled Interrogator - Automatic Results Generator	77-02-128 (EL5170)	NOW												CAROT/ROTL
Outgoing Trunk Testing System/ Remote Office Test Line (OTTS/ROTL)	77-03-147A 77-03-147B (EL4858A/PL3124A)	1Q77						X						OTTS/ROTL
SXS Touch-Tone Systems - Arrangements for International Direct Distance Dialing	77-03-189 (EL5237)	1Q77	X								X			
Network Measurement Systems - Development of New Hardware Options for the Engineering and Administrative Data Acquisition System (EADAS)	77-03-229 (EL4781)	NOW												EADAS
Service Problems for Calls from Outward WATS and PBX Lines Routed to 4ESS Offices	77-04-083	-					X			X				
Toll Terminal - Preliminary Planning for 4ESS offices	77-04-107 (EL5214)	-								X				
InterEADAS/NETWORK MANAGEMENT Communications and Network Operations Center Status	77-05-255	3Q77												EADAS/NM

5

Chart 3

PRINCIPAL NEW FACILITIES AND FEATURES FOR DISTANCE DIALING
AVAILABLE OR PLANNED FOR SHIPMENT IN THE NEXT THREE YEARS

SUBJECT (NOTE 1)	SOURCE GL	SHIP DATE (2)	APPLICATION											
			PNL/SXS	1/5XB	1/2/3 ESS	XBT	4XB	4 ESS	TSP (S)	IDDD	MINI-CMPTR	OTHER		
Centralized Automatic Reporting On Trunks (CAROT) Systems/CAROT Controller - Hardware for Remote Make-Busy Call Back Answer	77-06-058 (EL 5202)	NOW												CAROT
Preliminary List of Features for Release in Generic 4E3 for No. 4ESS	EL3310									X				
Preliminary List of Features for Release in Generic 4E4 for No. 4ESS	EL5384									X				
<p>Note 1 - The time span covered by this chart is from June, 1976 to June, 1977. Consult prior DDCH issues for letters issued before the earlier date.</p> <p>Note 2 - The date indicated for Probable Initial Shipment is a current view. It should not be viewed either as the earliest date desired by the Companies or a commitment by W.E. Certain dates are based on intervals for similar developments, and are in advance of detail information.</p> <p>Note 3 - Several other AT&T publications provide valuable planning information. Departmental newsletters such as the Systems Planning Newsletter, Long Lines Operations Information Bulletin, etc., should be consulted on</p>														

NO. 4 ESS TYPE SYSTEMS IN SERVICE-END OF 1976

CO	LOCATION	CLLI	SERVICE DATE	GENERIC	CLASS	T = TOLL ONLY L = LOC. TDM. C = COMBINED	C = CAMA T = TSPS	MACHINE* RESPONSIBILITY			
								T	E	A	M
ILL	CHICAGO 7, IL	CHCGIL0L57T	1/76	4E0	SRT #	T	C	L	L	L	L
SO	JACKSONVILLE 3, FL Ø	JCVLFLCLO3T	12/76	4E1	4	T	C,T	L	L	L	L
SW	DALLAS 3, TX	DLLSTXTL34T	12/76	4E1	1	T	C,T	L	L	L	L
	KANSAS CITY 2, MO	KSCYMO0904T	7/76	4E1	2	T		L	L	L	L

* Machine Responsibility
 T = Traffic Engineering
 E = Equipment Engineering
 A = Machine Administration
 M = Machine Maintenance
 C = Associated Company
 L = Long Lines

#(SRT) Selective Routing Tandem
 Ø International Switching Center 3Q78

NO. 4 TYPE TOLL CROSSBAR OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	TYPE/ CLASS	SERVICE DATE			P = PBC C = CAMA T = TSPS S = STP	MACHINE * RESPONSIBILITY			
				OFFICE	ETS	CCIS		T	E	A	M
NE 10	Brockton 2, MA	BRTNMAC002T	4A/3	03/75	03/75		P,	C	C	C	C
	Boston 2, MA	BSTNMAFR02T	4M/2	11/49			C,T	L	L	L	C
	Boston 9, MA	BSTNMAFR09T	4A/2	04/70	04/70		P,C,T,S	L	L	L	L
	Springfield 2, MA	SPFDMABR01T	4A/2	05/63			C	L	L	L	C
	Providence 4, RI	PRVDRIGR04T	4A/3	06/72	06/72		P	L	L	L	L
	Cambridge 16, MA (Kendall Square)	CMBRMABEL16T	4A/3	06/73	06/73			C	C	C	C
	Portland 2, ME	PTLDMEFO02T	4A/3	06/73	06/73			C	C	C	C
	Lawrence 2, MA	LWRNMACA02T	4A/3	10/73	10/73			C	C	C	C
	Framingham, MA	FRMNMAWA03T	4A/3	06/74	06/74		P,T	C	C	C	C
	Worcester 2, MA	WRCSMA0202T	4A/3	09/75	09/75		P,C	L	L	L	L
NY 14	Albany 2	ALBYNYSS04T	4A/2	04/50			T	L	L	L	L
	Buffalo 1	BFLONYFR04T	4A/3	05/56	05/73		C	C	C	C	C
	New York 4	NYCMNYAA02T	4M/2	11/48				L	L	L	L
	New York 7	NYCMNY5404T	4A/2	09/63				L	L	L	L
	Suffolk 1	HNTNNYSU01T	4A/2	06/70	06/70		P,T	L	L	L	L
	Syracuse	SYRCNYSU04T	4A/3	05/54	04/76		C	C	C	C	C
	White Plains 2	WHPLNY0201T	4A/1	11/54	10/70		P,S	L	L	L	L
	Varick Street	NYCMNYVS01T	4A/4	12/71	12/71		T	C	C	C	C
	New York 6	NYCMNY5405T	4A/3	08/72	08/72		P	L	L	L	L
	New York 10	NYCMNYBW01T	4A/3	06/73	06/73			L	L	L	L
	White Plains 4	WHPLNYWP03T	4A/3	10/73	10/73		C,T	C	C	C	C
	Garden City 1	GRCYNYGC01T	4A/4	10/73	10/73		C	C	C	C	C
	Broadway 2	NYCMNYBW20T	4A/4	02/74	02/74			C	C	C	C
	New York 11	NYCMNYBW02T	4A/3	08/74	08/74		P	L	L	L	L
NJ 8	Camden 2	CMDNNJCE02T	4A/2	10/69	10/69		T	L	L	L	L
	Newark 2	NWRKNJ0205T	4A/2	08/53				L	L	L	L
	New Brunswick 4	NBWKNJNB02T	4A/3	08/70	08/70		P,T	C	C	C	C
	Rochelle Park 1	RCPKNJ0201T	4A/3	11/66	10/74		P,T	C	C	C	C
	Rochelle Park 2	RCPKNJ0202T	4A/4	06/75	06/75		P	L	L	L	L
	Newark 7	NWRKNJ0207T	4A/3	07/73	07/73		T	C	C	C	C
	Cedar Knolls 1	CDKKNJCK01T	4A/3	06/74	06/74		P,T	L	L	L	L
	Hamilton Sq. 1	HMSQNJHS01T	4A/3	10/74	10/74		P	L	L	L	L

NO. 4 TYPE TOLL CROSSBAR OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	TYPE/ CLASS	SERVICE DATE			P = PBC C = CAMA T = TSPS S = STP	MACHINE * RESPONSIBILITY			
				OFFICE	ETS	CCIS		T	E	A	M
PA 9	Harrisburg	HRBGPAA41T	4A/2	12/55	06/74		P,C	L	L	L	L
	Philadelphia 2	PHLAPAMK41T	4M/3	08/43			T	L	C	L	C
	Pittsburgh 1	PITBPADT41T	4A/2	07/51			C,T	L	L	L	C
	Pittsburgh 2	PITBPADG42T	4A/1	11/70	11/70		P	L	L	L	L
	Scranton	SCTNPASC41T	4A/3	05/53			C	C	C	C	C
	Wayne 1	WAYNPALA41T	4A/1	05/57	06/71		P	L	L	L	L
	Ft. Washington 1	FTWSPAFW41T	4A/3	06/72	06/72		P,T	C	C	C	C
	Philadelphia 3	PHLAPASL41T	4A/3	06/74	06/74		P	L	L	L	L
	Wilmington, DE	WLMGDEWL41T	4A/3	07/75	07/75		P,T	C	C	C	C
	C&P 9	Baltimore 2, MD	BLTMMDDT02T	4A/2	08/50	05/76		P,T	C	C	C
Charleston 1, WV		CHTNWVLE24T	4A/2	03/61			C	C	C	C	C
Richmond 1, VA		RCMDVAGR01T	4A/2	06/54	03/76		P,C,T	C	C	C	C
Washington 1, D.C.		WASHDCDT04T	4A/3	09/50			T	C	C	C	C
Washington 3, D.C.		WASHDCSW04T	4A/2	03/67	05/71		P,T	C	C	C	C
Norfolk 3, VA		NRFLVABS02T	4A/3	05/72	05/72		P,T	C	C	C	C
Arlington 2, VA		ARTNVACK03T	4A/3	02/72	02/72		P,T	C	C	C	C
Baltimore 9, MD		BLTMMDCH09T	4A/3	05/74	05/74		P,T	C	C	C	C
Roanoke, VA		RONKVALK02T	4A/3	05/75	05/75		P,C	C	C	C	C
SO 21		Atlanta 1, GA	ATLNGATL42T	4A/2	10/51	05/74		P,T,S	L	L	L
	Charlotte 1, NC	CHRLNCCA01T	4A/2	11/54	04/72		C,T	L	L	L	L
	Columbia 1, SC	CLMASCTL01T	4A/2	04/59	03/75		P,C,T	L	L	L	L
	Greensboro 1, NC	GNBONCEU01T	4A/2	08/60	3Q-73		C,T	L	L	L	L
	Jacksonville 1, FL	JCVLFLCL01T	4A/2	12/55	05/73		C,T	L	L	L	L
	Miami 2, FL	MIAMFLTLO2T	4A/4	11/57			T	L	L	L	L
	Orlando 1, FL	ORLDFLMA01T	4A/2	11/62	09/73		C,T	L	L	L	L
	Rockdale, GA	RCDLGATL41T	4A/1	06/60	06/70		P,T	L	L	L	L
	Columbus 1, GA	CLMBGAMT42T	4A/4	11/71	11/71		C,T	C	C	C	C
	Raleigh, NC	RLGHNCM003T	4A/3	08/71	08/71		C,T	C	C	C	C
	Ojus 1, FL	OJUSFLTLO1T	4A/3	11/72	11/72		P,C,T	L	L	L	L
	Florence, SC	FLRNSCMA02T	4A/3	04/72	04/72		P,C	C	C	C	C
	Pensacola, FL	PNSCFBLB03T	4A/4	05/73	05/73		T	C	C	C	C
	Atlanta 3, GA	ATLNGANW43T	4A/3	01/73	01/73		T	L	L	L	L
	Gainesville 2, FL	GSVLFLAN03T	4A/3	08/74	08/74		P,C	C	C	C	C
	Ojus 2, FL	OJUSFLTLO2T	4A/4	11/75	11/75		P,T	L	L	L	L
	West Palm Beach 3, FL	WPBHFLAN03T	4A/3	09/75	09/75		P,T	L	L	L	L
	Greenville, SC	GNVLSCTLO1T	4A/3	06/75	06/75		P,C	C	C	C	C
	Macon 2, GA	MACNGAGA42T	4A/2	05/75	05/75		P,C,T	C	C	C	C

6

Chart 5

NO. 4 TYPE TOLL CROSSBAR OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	TYPE/ CLASS	SERVICE DATE			P = PBC C = CAMA T = TSPS S = STP	MACHINE * RESPONSIBILITY			
				OFFICE	ETS	CCIS		T	E	A	M
SO	Gastonia, NC Winston-Salem, NC	GSTANCS002T	4A/3	04/75	04/75		P,C	C	C	C	C
		WNSLNCFI02T	4A/3	05/75	05/75		P,C	C	C	C	C
SOCN 10	Birmingham 1, AL	BRHMALMT56T	4A/2	08/57	05/74		P,C,T,S	L	L	L	L
	Jackson 2, MS	JCSNMSPS04T	4A/2	06/59	03/74		P,C,T	L	L	L	L
	Knoxville 1, TN	KNVLTNMA41T	4A/3	02/61			C,T	C	C	C	C
	Louisville 1, KY	LSVLKYCS04T	4A/2	11/57	04/72		P,C,T	L	L	L	L
	Memphis 1, TN	MMPHTNMA41T	4A/2	10/56	04/72		C,T	L	L	L	L
	Nashville 1, TN	NSVLTNMT41T	4A/2	10/56	05/73		C,T	L	L	L	L
	New Orleans 1, LA	NWORLAMA01T	4A/2	03/53	01/74		P,T	L	L	L	L
	Baton Rouge 1, LA	BTRGLAMA01T	4A/4	08/71	08/71		P,C	C	C	C	C
	Decatur 1, AL	DCTRALMT56T	4A/3	04/74	04/74		P,C	C	C	C	C
	Shreveport 1, LA	SHPTLATL02T	4A/3	04/74	04/74		P,C,T	C	C	C	C
OHIO 7	Dayton	DYTNOH1501T	4A/3	11/63	12/75		P,C,T	C	C	C	C
	Cleveland 1	CLEVOH6201T	4M/3	06/49			C,T	L	L	L	L
	Columbus 2	CLMBOH1102T	4A/3	10/56	11/71		P,T,S	C	C	C	C
	Toledo 1	TOLDOH2101T	4A/3	08/61	04/73		P,C,T	L	L	L	L
	Cleveland 2	CLEVOH0202T	4A/2	08/72	08/72		P,T	L	L	L	L
	Akron 2	AKRNOH2502T	4A/3	11/73	11/73		P,T	C	C	C	C
	Youngstown 2	YNTWOH0202T	4A/3	04/75	04/75		P,T	C	C	C	C
MICH 8	Detroit 1	DTRTMIBA40T	4A/2	10/53	12/70		P,S	L	L	L	L
	Grand Rapids 1	GDRPMIBL40T	4A/2	04/69	04/69		P,T	L	L	C	C
	Plymouth 1	PLMOMIFA40T	4A/3	07/69	07/69		P,C,T	C	C	C	C
	Pontiac 2	PNTCMIMN40T	4A/3	06/72	06/72		P,C,T	C	C	C	C
	Detroit 2	DTRTMIBH40T	4A/4	03/74	03/74		P,T	C	C	C	C
	Kalamazoo 2	KLMZMIFA40T	4A/3	06/74	06/74		P	C	C	C	C
	Saginaw 2	SGNWMIFA40T	4A/3	12/74	12/74		P,T	C	C	C	C
	Lansing 2	LNNGMIMN40T	4A/3	06/75	06/75		P,T	C	C	C	C
IND 3	Bloomington 1	BLTNINO104T	4A/2	08/70	08/70		P,T	C	C	C	C
	Indianapolis 1	IPLSINO104T	4A/2	05/50	06/73		P,C,S	L	L	L	L
	South Bend 1	SBNDINO504T	4A/2	04/70	04/70		P,T	L	L	L	L
WISC 4	Eau Claire 1	EUCLWIO141T	4A/2	05/70				C	C	C	C
	Milwaukee 1	MILWWI4841T	4A/3	05/55				L	L	L	L
	Waukesha 2	WKSHWIO241T	4A/2	05/73	05/73	11/76	P,T	L	L	L	L
	Madison 2	MDSNWIO241T	4A/3	05/76	05/76	05/76	P,T	L	L	L	L

10

Chart 5

NO. 4 TYPE TOLL CROSSBAR OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	TYPE/ CLASS	SERVICE DATE			P = PBC C = CAMA T = TSPS S = STP	MACHINE * RESPONSIBILITY			
				OFFICE	ETS	CCIS		T	E	A	M
ILL 10	Chicago 2	CHCGILCG42T	4M/3	12/48			C,T	L	L	L	L
	Chicago 3	CHCGILEG43T	4A/3	09/54			C	L	L	L	L
	Chicago 6	CHCGILCL46T	4A/2	06/71	06/71		P,T	L	L	L	L
	Norway 1	NRWYILNO41T	4A/1	12/62	12/75		P	L	L	L	L
	Springfield 1	SPFDILSF41T	4A/2	09/60	09/74		C,P	L	L	L	L
	Champaign 1	CHMPILRA41T	4A/3	11/72	11/72		C	C	C	C	C
	Oak Brook	OKBRILOA41T	4A/4	08/72	08/72		P,T	L	L	L	L
	Peoria 2	PEORILPJ41T	4A/3	10/73	10/73		C	C	C	C	C
	Northbrook 2	NBRKILNT41T	4A/3	04/74	04/74		P,T	L	L	L	L
	Collinsville 2	COVLILCL41T	4A/2	10/75	10/75		P,C	L	L	L	L
NW 5	Des Moines, IA	DESMIADT04T	4A/2	06/57	10/70		P,C	L	L	L	L
	Minneapolis 1, MN	MPLSMNDT04T	4A/2	02/51	06/71		C,T	L	L	L	L
	Omaha 1, NB	OMAHNENW04T	4A/2	02/52	01/71		P,C,T,S	L	L	L	L
	St. Paul 2, MN	STPLMNMK04T	4A/3	11/71	11/71		P,C,T	L	L	L	L
	Fargo 1, ND	FARGNDBC03T	4A/2	11/75	11/75		P,C	L	L	L	L
SW 18	Dallas 1, TX	DLLSTXTL14T	4A/1	11/51	06/71		P,C,T,S	L	L	L	L
	Dallas 2, TX	DLLSTXTL24T	4A/2	07/71	07/71		P,C,T	L	L	L	L
	Fort Worth, TX	FTWOTXED14T	4A/2	07/60	1Q-72		C,T	L	L	L	L
	Houston 1, TX	HSTNTX0114T	4A/2	07/52	10/73		C,T	L	L	L	L
	Houston 2, TX	HSTNTX0124T	4A/3	06/71	06/71		C,T	L	L	L	L
	Houston 3, TX	HSTNTX0834T	4A/4	03/75	03/75		P	L	L	L	L
	Little Rock, AR	LTRKARFR14T	4A/3	05/54	06/74		P,C,T	C	C	C	C
	Oklahoma City 1, OK	OKCYOKCE14T	4A/2	02/54	09/73		P,C,T,S	L	L	L	L
	San Antonio, TX	SNANTXCA04T	4A/2	08/55	12/74		C,T	L	L	L	L
	St. Louis 1, MO	STLSMO0914T	4A/1	04/55	02/70		P,T	L	L	L	L
	St. Louis 2, MO	STLSMO0924T	4A/3	04/70	04/70		P,T	L	L	L	L
	Tulsa, OK	TULSOKTB14T	4A/3	04/57	04/73		C,T	C	C	C	C
	Wichita, KS	WCHTKSBR14T	4A/3	10/57	06/74		C	C	C	C	C
	Mission, KS	MSSNKSFR04T	4A/3	04/72	04/72		C	C	C	C	C
	Dallas, TX	DLLS TX TA 42T	4A/Lcl.	02/70	02/70			C	C	C	C
	Longview, TX	LGVWXTL14T	4A/3	03/73	03/73		P,C,T	C	C	C	C
	Corpus Christi 1, TX	CRCHXTU04T	4A/3	10/73	10/73		P,C,T	C	C	C	C
	Austin 1, TX	AUSTTXGR04T	4A/3	05/74	05/74		P,C,T	C	C	C	C

NO. 4 TYPE TOLL CROSSBAR OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	TYPE/ CLASS	SERVICE DATE			P = PBC C = CAMA T = TSPS S = STP	MACHINE RESPONSIBILITY			
				OFFICE	ETS	CCIS		T	E	A	M
MTN 13	Albuquerque 1, NM	ALBQNMMA01T	4A/2	04/60	03/75		C	L	L	L	L
	Colorado Springs 1, CO	CLSPCOMA01T	4A/3	05/71	05/71		T,P	C	C	C	C
	Denver 1, CO	DNVRCOMA01T	4A/2	11/54	12/70		P,C,T	L	L	L	L
	Phoenix 1, AZ	PHNXAZMA01T	4A/2	12/66	12/73		P,C	L	L	L	L
	Pueblo 1, CO	PUBLCOMA01T	4A/3	04/69	04/69		P,C	C	C	C	C
	Salt Lake City 1, UT	SLKCUTMA01T	4A/2	05/58	07/73		P,C,T	L	L	L	C
	Cheyenne 1, WY	CHYNWYMA01T	4A/2	05/72	05/72		P,C	C	C	C	C
	Denver 3, CO	DNVRCOMA03T	4A/1	06/72	06/72		P,T	L	L	L	L
	Tucson 2, AZ	TCSNAZMA02T	4A/3	06/74	06/74		P,C	L	L	L	L
	Denver 4, CO	DNVRCOZJ04T	4A/4	04/74	04/74		P,C,T	L	L	L	L
	Greeley 1, CO	GRELCOJC01T	4A/3	04/75	04/75		P,C	C	C	C	C
	Boise 2, ID	BOISIDMA02T	4A/3	02/75	03/75		P,C	C	C	C	C
	Mesa 1, AZ	MESAAZMA01T	4A/4	10/75	10/75		P,C	L	L	L	L
PNB 5	Portland 1, OR	PTLDOR6201T	4A/2	11/55	03/75		P,C,T	C	C	C	C
	Seattle 1, WA	STTLWAO101T	4A/2	01/59	01/72		P,C,T	C	C	C	C
	Spokane, WA	SPKNWA0101T	4A/3	04/62			C	C	C	C	C
	Portland 2, OR	PTLDOR6202T	4A/3	04/74	04/74		P,T	C	C	C	C
	Seattle 2, WA	STTLWAO602T	4A/3	04/74	04/74		P,C,T	C	C	C	C
PAC 23	Anaheim 1	ANHMCA0128T	4A/2	12/64	04/72		P,T,S	C	C	C	C
	Los Angeles 2	LSANCA0201T	4A/2	05/54	04/72		P,S	C	C	C	C
	Los Angeles 3	LSANCA0307T	4A/3	03/62	09/69		P,T	C	C	C	C
	Oakland 3 (Franklin)	OKLDCA0341T	4M/2	10/49	02/72		P,T,S	C	C	C	C
	Redwood City	RDCYCA0242T	4A/3	02/70	02/70		P,T	C	C	C	C
	Sacramento 1	SCRMCA0121T	4A/1	06/53	03/75		P,S	C	C	L	L
	Fresno 2	FRSNCA0144T	4A/3	06/72	06/72		C	C	C	C	C
	San Bernardino	SNBRCA0133T	4A/1	10/57	01/74		P	C	C	L	L
	Anaheim 2	ANHMCA0177T	4A/3	05/74	05/74		P,T	C	C	C	C
	San Diego 1	SNDGCA0288T	4A/2	03/67			T	C	C	C	C
	San Francisco 1	SNFCCA0141T	4A/3	06/69	01/72		P,C,T	C	C	C	C
	San Jose 1	SNJSCA0203T	4A/2	06/58	03/73		P	C	C	C	C
	Sherman Oaks 2	SHOKCA0263T	4A/3	04/71	04/71		P,T	C	C	C	C
	Hayward	HYWRCA0246T	4A/3	03/73	03/73		P,C,T	C	C	C	C
	Gardena 1	GRDNCA0221T	4A/3	05/73	05/73		P	C	C	C	C
	Oakland 5 (Franklin)	OKLDCA0342T	4A/3	06/73	06/73		P,C,T	C	C	C	C
	Reno 3, NV	RENONV0304T	4A/2	05/73	05/73		P,T	C	C	C	C
	San Francisco 2 (Folsom)	SNFCCA2142T	4A/4	03/74	03/74		P,C	C	C	C	C
	Sherman Oaks 3	SHOKCA0373T	4A/3	06/74	06/74		P,T	C	C	C	C
	Stockton 2	SKTNCA0110T	4A/2	04/74	04/74		P	C	C	C	C

NO. 4 TYPE TOLL CROSSBAR OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	TYPE/ CLASS	SERVICE DATE			P = PBC C = CAMA T = TSPS S = STP	MACHINE * RESPONSIBILITY			
				OFFICE	ETS	CCIS		T	E	A	M
PAC	Gardena 2	GRDNCA0231T	4A/4	05/75	05/75		P	C	C	C	C
	Santa Rosa 2	SNRSCA0236T	4A/2	05/75	05/75		P	C	C	C	C
	Santa Clara	SNTCCA0120T	4A/Lcl	03/75	03/75		P	C	C	C	C
SNE 3	New Haven 4	NWHNCT0203T	4A/2	05/68	05/71		P,T	L	L	L	L
	Hartford 3	HRFRCT0304T	4A/3	10/73	10/73		P,C,T	L	L	L	L
	Bridgeport 4	BRPTCT0403T	4A/3	04/75	04/75		P,C	L	L	L	L
CINN	Cincinnati 1	CNCNOHWS04T	4A/2	09/52	04/72		P,C,T	L	L	L	L
NON-BELL 10	Clearwater, FL	CLWRFLXA02T	4A/4	11/72	11/72		C				
	St. Petersburg, FL	SPBGFLXA02T	4A/4	11/71	11/71						
	Tampa 2, FL	TAMPFLXA02T	4A/3	08/69	02/74		C,T				
	Tampa 3, FL	TAMPFLXA03T	4A/4	10/75	10/75		T				
	Sarasota 3, FL	SRSTFLXF01T	4A/4	10/74	10/74		P				
	Ft. Wayne, IN	FTWYINXA04T	4A/4	06/69							
	Fayetteville, NC	FYVLNCXA02T	4A/3	05/72	05/72						
	Rockey Mt. 2, NC	RCMTNCXA02T	4A/3	04/74	04/74		P				
	Honolulu, HI	HNLLHIZA01T	4A/3	01/72	01/72		C				
	Everett 1, WA	EVRTWAXA01T	4A/3	04/72	04/72		C				
Las Vegas 1, NV	LSVGNVXB04T	4A/4	11/72	11/72		C					
CANADA 9	TCTS Montreal 1, Que.	MTRLPQ0201T	4A/1	05/65	07/72		C				
	TCTS Toronto 1, Ont.	TOROON0101T	4A/2	06/55			C				
	TCTS Toronto 3, Ont.	TOROON1103T	4A/3	11/72	11/72		C				
	4 Ottawa 2, Ont.	OTWAON1002T	4A/3	04/73	04/73		C				
	Halifax 1, N.S.	HLFXNS0101T	4A/3	04/71			C				
	Saskatoon, Sask.	SKTNSK0102T	4A/4	09/70			C				
	Vancouver 2, B.C.	VANCB0104T	4A/2	04/71	04/71		C				
	Winnipeg 1, Man.	WNPGMB0101T	4A/2	02/65			C				
	5 Edmonton 1 Alta.	EDTNAB0201T	4A/3	03/72	03/72		C				

* Machine Responsibility
 T = Traffic Engineering
 E = Equipment Engineering
 A = Machine Administration
 M = Machine Maintenance
 C = Associated Company
 L = Long Lines

TCTS - Indicates Trans-Canada Telephone System throughout.

Chart 5

BELL SYSTEM NO. 1 ESS/1A ESS TANDEM SYSTEMS IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	* T = TDM. ONLY * /5 = COMBINED (*) = CLASS	SVC DATE	TYPE PROCESSOR	TRUNKS 2 = 2 WIRE 4 = HI-LO	T = TOLL ONLY L = LOC. TDM C = COMBINED	C = CAMA A = ANI T = TSPS T/R = RTA	CCIS SVC DATE
NE	(none)								
NY	Williamsburg	NYCKNYWMCGO	T	11/74	1E-SP	2	L		
NJ	Morristown	MRTWNJMRO3T	4/5	/71	1E-SP	2	C		
	Paterson	PTSNNJARO2T	4/5	/71	1E-SP	2	C		
	Vineland	VNLDNJVLO2T	4/5	/73	1E-CC	2	C		
	Wildwood	WLWDNJW103T	4/5	/68	1E-CC	2	C		
PA	Scranton	SCTNPASC81T	4/5	5/73	1E-SP	2	T	C,A	
	State College	STCGPAES81T	4/5	7/74	1E-CC	2	T	C,A	
C&P	Fredericksburg, VA	FRBGVAFB02T	4T	11/75	1E-CC	2	T	C,A	
	Huntington, WV	HNTNWVDT21T	4/5	6/76	1E-SP	2	C	C,A	
	Lynchburg, VA	LYBGVACH02T	4/5	11/75	1E-CC	2	T	C,A	
	Salisbury, MD	SLBRMDSB07T	4/5	7/76	1E-SP	2	C	C,A	
SO	Athens, GA	ATHNGAMA02T	4/5	12/75	1E-CC	2	T(orig)		
	Daytona Beach, FL	DYBHFLMA03T	4T	9/76	1E-SP	2	T		
	Panama City, FL	PNCYFLMA03T	3T	1/76	1E-SP	2	T		
	Rome, GA	ROMEATLO2T	4/5	12/73	1E-CC	2	T(orig)		
	Savannah, GA	SVNHGABS02T	3T	5/76	1E-SP	2	T		
SOCN	Greenville, MS	GNVLMMA06T	4T	11/74	1E-SP	2	C	A	
	Lake Charles, LA	LKCHLADT03T	4T	12/73	1E-SP	2	C	C	
OHIO	Middletown	MDTNOH4250T	4/5	5/76	1E-SP	2	C	C	
MICH	Port Huron	PTHRMIMN20T	4/5	8/76	1E-SP	2	C	C	
	Sault St. Marie	SSMRMIMN17T	4/5	6/76	1E-SP	2	C	C	
IND	(none)								
WISC	Eau Claire	EUCLWIO181T	4/5	3/75	1E-SP	2	T	C,A	
	Madison 3	MDSNWI1181T	4/5	8/70	1E-SP	2	T	A	
	Sheyboygan	SHBYWIO181T	4/5	12/76	1E-SP	2	T	C,A	

BELL SYSTEM NO. 1 ESS/1A ESS TANDEM SYSTEMS IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	* T = TDM. ONLY * /5 = COMBINED (*) = CLASS	SVC DATE	TYPE PROCESSOR	TRUNKS 2 = 2 WIRE 4 = HI-LO	T = TOLL ONLY L = LOC. TDM C = COMBINED	C = CAMA A = ANI T = TSPS T/R=RTA	CCIS SVC DATE
ILL	Chicago (Canal) Kankakee Northbrook	CHGOILCL50T	T	2/75	1E-SP	2	L	C	
		KNKKILKK50T	4/5	8/71	1E-SP	2	T		
		NBRKILNT50T	4T	4/76	1E-SP	2	C		
NW	Albert Lea, MN Davenport, IA Duluth, MN Marshalltown, IA Rochester, MN Wayzata, MN	ALLEMNAL01T	4/5	11/76	1E-CC	2	T	C	
		DVNPIADT07T	3T	10/76	1E-SP	2	T		
		DLTHMNME06T	4/5	6/74	1E-SP	2	T		
		MRTWIA5007T	4/5	11/75	1E-CC	2	T		
		ROCHMNRO01T	4/5	2/67	1E-SP	2	T		
		WYZTMNWA47M	4/5	6/76	1E-SP	2	T		
SW	Amarillo 2, TX Galveston, TX Greenville, TX Kirkwood, MO Lawton, OK Midland 1, TX Topeka, KS Wichita Falls, TX	AMRLTX0201T	4/5	11/76	1E-SP	2	T		
		GLTNTXSO01T	4/5		1E-SP	2	T		
		GNVLTXGLO3T	3/5	8/75	1E-SP	2	T		
		STLSMO4182T	T	11/73	1E-SP	2	L		
		LWTNOKTB14T	3T	10/75	1E-CC	2	T		
		MDLDTXMU01T	3/5	10/76	1E-SP	2	T		
		TPKAKSJA02T	4/5	11/73	1E-SP	2	T		
		WCFLTXNI03T	3/5	10/74	1E-SP	2	T		
		MTN	Idaho Falls, ID Provo, UT	IDFLIDMA01T	4/5	9/75	1E-CC		
PROVUTMA01T	4/5			5/76	1E-SP	2	T		
PNB	Corvallis, OR Portland, OR	CRVSORGS02T	4/5	3/75	1E-CC	2	T	C,A	
		PTLDOR69CGO	4/5	11/71	1E-SP	2	L		
PAC	Monterey San Mateo	MTRYCA0115T	4/5	2/74	1E-SP	2	L		
		BRLNCA0135T	4/5	10/69	1E-SP	2	L		
SNE	Manchester, CT	MNCHCT0002T	4/5	12/76	1E-SP	2	C		
CINN	(none)								

CROSSBAR TANDEM IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS- LATION
NE	Bangor, ME	BNGRMEPA01T	10/69	4		C,A	X
	Boston (Dorchester)	DRCHMAAD10T	01/64	4		C,A	X
	(Harrison)	BSTNMAHA15T	06/65	4	T	C,A	X
	(Metro)	BSTNMAFRO3T	06/49	4	T,S		
	(Malden)	MLDNMAEL13T	12/67	4			X
	(Newton)	NWTNMAWAO4T	06/55	4			X
	Brockton 1, MA	BRTNMACRO1T	06/63	4		C	X
	Fall River, MA	FLRVMANMO1T	05/64	3		C,A	X
	Framingham 1, MA (+)	FRMNMAUNO1T	01/65	4	S	C,A	X
	Framingham 2, MA (+)	FRMNMAUNO2T	10/72	4			
	Lawrence, MA	LWRNMACO01T	11/60	4		C,A	X
	Portland, ME	PTLDMEFO01T	04/62	3		C,A	X
	Providence 1, RI (*)	PRVDRIWA01T	09/56	4C		C,A	X
	Providence 2, RI (*)	PRVDRIWA02T	03/49	4C			
	White River Jct., VT	WRJTVTGA01T	11/61	3		C,A	X
	Worcester, MA	WRCSMACE01T	11/59	4		C,A	X
	Lewiston 2, ME	LSTNMEASO2T	06/72	4		C,A	X
	Boston 17, MA (#)	BSTNMAFR17T	10/72	3		C	X
	Boston CAMA, MA (#)	BSTNMAFRO5T	04/57	4		C	X
	Manchester 1, NH (##)	MNCHNHCO01T	06/63	3		C,A	X
Manchester 2, NH (##)	MNCHNHCO02T	05/73	3			X	
NY	Albany 1	ALBYNYSSO3T	12/61	3C	S	C,A	X
	Binghamton 1 (*)	BNGHNYHYO3T	06/59	3		C,A	X
	Binghamton 2 (*)	BNGHNYHYO4T	10/72	3		C	
	Buffalo Erie	BFLONYFRO1T	10/48	Lcl.			
	Buffalo Frontier	BFLONYFRO2T	11/61	Lcl.			
	Utica	UTICNYUTO1T	10/63	4		C,A	X
	Amsterdam 1 (#)	NYCMNY3701T	08/48	Lcl.			
	Amsterdam 2 (#)	NYCMNY3702T	11/59	4			X
	Midtown 1 (#)	NYCMNY3703T	09/62	4			X
	Midtown 2 (#)	NYCMNY3704T	09/64	4			X
	Borough 3 (*)	NYCMNY5003T	10/52	3			
	Borough 4 (*)	NYCMNY5004T	04/55	3			
	Gotham 8 (#)	NYCMNY1308T	06/48	4			
	Gotham 9 (#)	NYCMNY1309T	06/50	4			

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEMS IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS-LATION
NY	Chelsea 1 (*)	NYCMNY1801T	08/69	4C			X
	Chelsea 2 (*)	NYCMNY1802T	08/69	4C			X
	East 97th Street	NYCMNY9701T	07/52	Lcl.			
	Lexington	NYCMNY5602T	06/68	4C			X
	Tenth Ave. 1 (#)	NYCMNY5401T	12/63	4			X
	Tenth Ave. 2 (#)	NYCMNY5402T	08/65	3	T	C,A	X
	Tenth Ave. 3 (#)	NYCMNY5403T	10/67	3		C,A	X
	Vesey 1 (*)	NYCMNYWS01T	10/49	4			X
	Vesey 2 (*)	NYCMNYWS02T	09/50	4			X
	Vesey 3 (*)	NYCMNYWS03T	09/54	4		A	
	West St. 4 (*)	NYCMNYWS04T	09/59	3		C,A	X
	West St. 5 (*)	NYCMNYWS05T	10/63	3	T	C,A	X
	West St. 6 (*)	NYCMNYWS06T	10/72	4		C	
	York 1 (#)	NYCMNY3001T	11/47	Lcl.			
	York 2 (#)	NYCMNY3002T	10/51	Lcl.			
	E. 97th St. 4 DID	NYCMNY9702T	07/71	4			
	Bronx 1 (*)	NYCXNYGC01T	02/60	3C		C,A	X
	Bronx 2 (*)	NYCXNYGC02T	07/64	3C	T	C,A	X
	Tremont 1 (*)	NYCXNYGC03T	07/63	4C			X
	Tremont 2 (*)	NYCXNYGC04T	11/65	4C			X
	Mt. Kisco	MTKSNYMK01T	03/58	3C		C,A	X
	Mt. Vernon 1 (#)	MTVRNYMV01T	10/49	4C			
	Mt. Vernon 2 (#)	MTVRNYMV01T	12/68	Lcl.			
	White Plains 1	WHPLNYWP01T	03/50	4C			
	Nyack	NYACNYNK01T	05/59	3C		C,A	X
	Monticello 1	MNTINYMT01T	03/65	4	T	C,A	X
	Poughkeepsie	PGHKNYSH03T	11/56	3		C,A	X
	Albermarle Rd. 2 (*)	NYCKNYAL02T	02/59	3C		C,A	X
	Albermarle Rd. 3 (*)	NYCKNYAL03T	11/66	3C	T	C,A	X
	Brooklyn (*)	NYCKNYAL01T	09/48	4C			
	Bushwick 1 (#)	NYCKNYBU01T	09/63	4C			X
	Bushwick 2 (#)	NYCKNYBU02T	03/67	4C			X
	Kings 1 (*)	NYCKNYBR01T	08/64	4C			X
	Kings 2 (*)	NYCKNYBR02T	11/68	4C			X
	Forest Hills 1 (#)	NYXQNYFH01T	11/59	3C		C,A	X
	Forest Hills 2 (#)	NYCQNYFH02T	03/64	3C	T	C,A	X

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEM IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS-LATION	
NY	Jamaica	NYCQNYJA01T	08/47	Lcl.				
	Richmond Hill 1 (*)	NYCQNYRH01T	03/54	4C				
	Richmond Hill 2 (*)	NYCQNYRH02T	07/58	4C				
	Queens 1 (#)	NYCQNYNJ01T	08/65	4C			X	
	Queens 2 (#)	NYCQNYNJ02T	12/70	4			X	
	Staten Island	NYCRNYS01T	01/67	4C			X	
	Hempstead 1 (*)	HMPSNYHS01T	07/50	4C			X	
	Hempstead 2 (*)	HMPSNYHS02T	06/57	4C	T		X	
	Hempstead 3 (*)	HMPSNYHS03T	08/64	3C		C,A	X	
	Hempstead 4 (*)	HMPSNYHS04T	08/66	3C			X	
	Deer Park 1	DRPKNYDP01T	11/65	4C			X	
	Deer Park 2	DRPKNYDP02T	07/71	4C				
	NJ	Asbury Park	ASPKNJAP01T	02/66	4			X
		Atlantic City	ATCYNJAC01T	04/61	3		C,A	X
		Camden	CMDNNJCM01T	03/53	4	T	C,A	X
		Hackensack	HCKNNJHK01T	06/53	4		C,A	X
		Jersey City (Bergen)	JRCYNJBR01T	01/55	4		C,A	
Morristown		MRTWNJMR01T	01/55	4	S	C,A	X	
Newark (Essex 1) (#)		IVTNNJES01T	11/57	3				
(Essex 2) (#)		IVTNNJES02T	03/61	3		C,A	X	
(Jersey 1) (*)		NWRKNJ0203T	10/47	4				
(Jersey 2) (*)		NWRKNJ0204T	11/52	4		C,A		
(TSP Tandem) (*)		NWRKNJ0206T	07/65	4	T		X	
New Brunswick 1		NBWKNJNB01T	06/57	4		C,A	X	
Paterson		PTSNNJAR01T	07/50	4		C,A	X	
Trenton		TRENNJTN01T	03/57	4		C,A	X	
PA		Allentown	ALTWPAAL21T	10/61	4		C,A	X
		Altoona	ALNAPAAL21T	11/57	3		C,A	X
		Greensburg	GNBGPAGR21T	08/59	4		C,A	X
	Lancaster	LNCSPALA21T	05/62	4		C,A	X	
	Philadelphia (East A) (#)	PHLAPAMK21T	03/53	4	S	C,A		
	(East B) (#)	PHLAPAMK22T	06/60	4		C,A	X	
	(North A) (*)	PHLAPADA21T	08/55	4		C,A		
	(North B) (*)	PHLAPADA22T	10/64	4	T	C,A	X	

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEM IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS-LATION
PA	Pittsburgh (Tandem A) (#)	PITBPADT21T	04/55	Lcl.			
	(Tandem B) (#)	PITBPADT22T	08/57	4C		C,A	X
	Reading	RDNGPARE21T	11/59	4		C,A	X
	Tullytown	TULYPATU21T	03/59	4		C,A	X
	Wilkes-Barre	WLBRPAWB21T	11/62	4		C,A	X
	Williamsport	WLPTPAW121T	05/61	3		C,A	X
C&P	Arlington, VA (Local)	ARTNVAAR01T	09/51	Lcl.			X
	Arlington 1, VA (Toll)	ARTNVAAR02T	03/66	4C			X
	Baltimore 3 MD	BLTMMDDT03T	10/48	4C		C,A	X
	Baltimore 7, MD	BLTMMDWL07T	12/67	Lcl.			X
	Clarksburg, WV	CLBGWVMA23T	10/64	3		C,A	X
	Norfolk 1, VA	NRFLVABS01T	08/62	4C		C,A	X
	Silver Spring, MD (Local)	SLSPMDSS10T	09/61	Lcl.			X
	(Toll)	SLSPMDSS01T	05/64	4		C,A	X
	Washington, D.C. (Dupont)	WASHDCDP10T	11/64	Lcl.			
	(Uptown)	WASHDCUT01T	01/49	4C		C,A	X
	(Mt. Pleasant)	WASHDCUT10T	10/66	Lcl.			
	Baltimore 6, MD	CTVLMDC06T	01/63	Lcl.			
Hyattsville	HYVLMDDHY10T	10/51	Lcl.				
SO	Asheville, NC	AHVLNCOH01T	06/66	3		C,A	X
	Atlanta 2, GA	ATLNGATL53T	10/60	4		C,A	X
	Atlanta-Decatur, GA	ATLNGAEL62T	09/64	Lcl.			
	Charleston, SC	CHTNSCDT02T	04/66	4	S	C,A	X
	Ft. Lauderdale, FL	FTLDFLMA01T	12/64	4	S	C,A	X
	Miami 3, FL	MIAMFLLR03T	09/59	Lcl.		C,A	X
	West Palm Beach, FL	WPBHFLAN01T	11/66	4		C,A	X
	Miami-Biscayne, FL	MIAMFLBC31T	07/72	Lcl.			
SOCN	Chattanooga, TN	CHTGTNMA61T	09/57	4	S	C	X
	Lafayette, LA	LFYTLAMA01T	11/60	3		C,A	X
	Mobile, AL	MOBLALMT66T	05/65	3		C,A	X
	Montgomery, AL	MTGMALMT66T	07/62	3		C,A	X
	New Orleans 2, LA	NWORLABM01T	12/62	4		C,A	X
	Paducah, KY	PDCHKYMA02T	05/60	3		C,A	X

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEMS IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS- LATION
OHIO	Akron 1	AKRNOH2501T	11/57	4		C,A	X
	Canton	CNTNOH0101T	06/60	3		C,A	X
	Cleveland (Clearwater 1) (*)	CLEVOH2501T	01/59	3		C,A	X
	(Clearwater 2) (*)	CLEVOH2502T	07/69	Lcl.			
	(Garfield)	CLEVOH4201T	02/55	3		C,A	X
	(Henderson 1) (#)	CLEVOH4301T	04/48	Lcl.			
	(Henderson 2) (#)	CLEVOH4302T	09/66	Lcl.			
	Columbus 1	CLMBOH1101T	07/58	4C		C,A	
	Youngstown	YNTWOH0201T	08/56	4		C,A	X
MICH	Detroit (Cadillac) (*)	DTRTMIBA11T	07/58	4C		C,A	X
	(Trinity)	DTRTMIMD01T	10/41	Lcl.			
	(University)	DTRTMIUVO1T	06/59	4C			X
	(Woodward) (*)	DTRTMIBA21T	12/53	4C		C,A	X
	Flint	FLNTMIMN01T	06/57	4		C,A	X
	Grand Rapids 2	GDRPMIBL01T	04/57	3		C,A	X
	Jackson	JCSNMIMN01T	07/67	3		C,A	X
	Kalamazoo	KLMZMIMN01T	11/65	4		C,A	X
	Lansing	LNNGMIMN01T	08/64	4		C,A	X
	Pontiac	PNTCMIMN01T	04/58	4		C,A	X
	Saginaw	SGNWMIMN01T	06/61	4		C,A	X
	Traverse City	TRCYMIMN01T	06/73	4		C,A	X
	IND	Evansville	EVVLIN0101T	10/58	3		C,A
Indianapolis		IPLSIN0101T	10/70	Lcl.			
South Bend 2		SBNDIN0101T	08/56	3	S	C,A	X
WISC	Appleton 1	APPLWI0101T	05/62	3		C,A	X
	Madison 1	MDSNWIO101T	05/63	4P		C,A	X
	Milwaukee 2	MILWWI4801T	11/48	4P		C,A	X
	(Fairway Dr.)		11/65	Lcl.			
	Racine	RACNWIO101T	05/65	4P		C,A	X

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEM IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS-LATION
ILL	Centralia	CENLILCE01T	07/61	3C		C,A	X
	Chicago (Bell Plaine 1) (#)	CHCGILBP01T	08/54	4C			
	(Bell Plaine 2) (#)	CHCGILBP02T	12/61	Lcl.			
	(Congress WATS)	CHCGILCG01T	09/62	5			
	(Franklin 1) (*)	CHCGILFR01T	07/55	Lcl.			
	(Franklin 2) (*)	CHCGILFR02T	05/59	Lcl.			
	(Kedzie 1) (#)	CHCGILKE01T	10/58	Lcl.			
	(Kedzie 2) (#)	CHCGILKE02T	07/69	Lcl.			
	(Stewart 1) (*)	CHCGILST01T	11/52	4C			
	(Stewart 2) (*)	CHCGILST02T	10/66	4C			
	(Wabash 1) (#)	CHCGILWB01T	09/46	Lcl.			
	(Wabash 2) (#)	CHCGILWB02T	05/61	4C			
	Morton Grove	MRGVILMG01T	09/67	Lcl.			
	Chicago 5	CHCGILHK01T	07/69	4		C	
	Decatur	DCTRILDC01T	12/68	4C		C,A	X
	Peoria 1	PEORILPJ01T	09/61	4C		C,A	X
	Rockford	RCFRILRT01T	12/62	3		C,A	X
	Alton	ALTNILAL01T	12/72	4C		C,A	X
Champaign 2	CHMPILCP01T	06/59	4C		C,A	X	
Rock Island 2	RCISILR101T	10/73	4		C,A	X	
NW	Bismarck 1, ND	BSMRNDBC04T	04/70	3		C,A	X
	Cedar Rapids, IA	CDRRIADT03T	12/66	4		C,A	X
	Grand Island, NB	GDISNENW03T	05/70	3		C,A	X
	Omaha, NB		02/69	Lcl.			
	Rapid City, SD	RPCYSDC003T	03/70	4		C,A	X
	Souix City, IA	SXCYIADT03T	06/60	3	T	C,A	X
	Souix Falls, SD	SXFLSDC003T	11/58	3	S	C,A	X
	Waterloo, IA	WTRLIADT03T	06/61	3		C,A	X
	Grand Forks, ND	GDFRNDBC04T	10/73	3		C,A	X

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEMS IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS-LATION	
SW	Abilene, TX	ABLNTXOR01T	04/69	3		C,A	X	
	Amarillo, TX	AMRLTXDR01T	08/55	2		C,A	X	
	Beaumont, TX	BUMTTXTE01T	05/66	3	T	C,A	X	
	Ft. Smith, AR	FTSMARSU01T	11/66	4		C,A	X	
	Harlingen, TX	HRLNTXHG01T	08/71	3		C,A	X	
	Joplin, MO	JPLNMOMA01T	06/62	3		C,A	X	
	Kansas City, MO		09/49	Lcl.				
	Lubbock, TX	LBCKTXPS01T	07/57	3		C,A	X	
	St. Louis, MO (Jefferson 1) #	STLSMO0511T	08/49	Lcl.				
	(Jefferson 2) #	STLSMO0521T	04/61	4C		C,A	X	
	(Chestnut 1)	STLSMO0101T	09/66	4C	T	C,A	X	
	Salina, KS	SALNKSTA01T	09/56	3		C,A	X	
	Springfield, MO	SPFDMOTL01T	12/64	4	T	C,A	X	
	Sikeston, MO	SKSTMOGR01T	11/68	3		C,A	X	
	St. Joseph, MO	STJSMODN01T	06/70	4		C,A	X	
	Sweetwater, TX	SWTWTXSW01T	03/57	2			X	
	Waco, TX	WACOTX0101T	12/67	3		C,A	X	
	MTN	Billings, MT	BLNGMTMA01T	11/61	2		C,A	X
		El Paso, TX	ELPSTXMA01T	09/62	4		C,A	X
Grand Jct. CO		GDJTCOMA01T	03/68	3			X	
Twin Falls, ID		TWFLIDMA01T	08/74	4		C,A	X	
PNB	Eugene, OR	EUGNOR5301T	06/65	4		C,A	X	
	Seattle, WA (East)	STTLWA0350T	09/54	Lcl.				
	(Emerson)	STTLWA0451T	10/58	Lcl.				
	(Mutual)	STTLWA0103T	04/48	3				
	Tacoma, WA	TACMWA0201T	05/64	3		C,A	X	
Yakima, WA	YAKMWA0201T	08/58	3		C,A	X		
PAC	Alhambra, CA	ALHBCA0108T	09/57	Lcl.				
	Anaheim, CA	ANHMCA0134T	06/57	3	S	C,A	X	
	Bakersfield, CA	BKFDCA0130T	04/58	3		C,A	X	
	Compton, CA	CMTNCA0122T	12/58	Lcl.			X	
	Concord, CA	CNCRCA0100T	05/67	4		C,A	X	

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEM IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS-LATION
PAC	El Monte, CA	ELMNCA0116T	02/60	3			X
	Eureka, CA	EURKCA0131T	01/59	4		C	X
	Fresno 1, CA	FRSNCA0126T	10/56	4		C,A	X
	Hollywood 3T, CA (#)	HLWDCA0103T	01/50	Lcl.			
	Hollywood 4T, CA (#)	HLWDCA0104T	10/68	Lcl.			
	Los Angeles 5T, CA	LSANCA0105T	01/48	Lcl.			
	Los Angeles 6T, CA	LSANCA0206T	08/55	Lcl.			
	Los Angeles 17T, CA (*)	LSANCA0517T	06/49	Lcl.			
	Los Angeles 18T, CA (*)	LSANCA0518T	05/67	Lcl.			
	Modesto, CA	MDSTCA0233T	06/62	3		C,A	X
	Oakland 4 (Franklin 0) (#)	OKLDCA0300T	04/54	4		C,A	X
	Oakland 1, CA	OKLDCA0100T	01/42	Lcl.			
	Oakland 1 (Franklin 1) (#)	OKLDCA0301T	05/63	4		C,A	X
	Oceanside, CA	OCSDCA0127T	05/63	4		C,A	X
	Palo Alto, CA	PLALCA0216T	07/60	4		C,A	X
	Reno 2, NV	RENONV0200T	01/60	3		C,A	X
	Sacramento 2, CA	SCRMCA0124T	07/58	3		C,A	X
	Salinas, CA	SLNSCA0111T	04/64	3		C,A	X
	San Diego 2, CA	SNDGCA0245T	04/56	3		C,A	X
	San Francisco (Onon 0) (#)	SNFCCA0600T	01/56	Lcl.			X
	(Bush 0) (*)	SNFCCA0300T	12/41	4			X
	(Bush 1) (*)	SNFCCA0301T	06/49	4		C,A	X
	San Francisco 5 (Mission) (D-77)	SNFCCA0500T	05/65	Lcl.		C,A	X
	San Francisco 6 (Onon 1) (#)	SNFCCA0601T	01/56	4C		T C,A	X
	San Jose 2, CA	SNJSCA0212T	03/52	3		C,A	X
	San Rafael, CA	SNRFCA0100T	09/62	4		C,A	X
	Santa Rosa, CA	SNRSCA0129T	06/57	3		C,A	X
	Sherman Oaks, CA	SHOKCA0120T	12/58	Lcl.			
	Stockton 1, CA	SKTNCA0128T	08/57	3		C,A	X
	Redding, CA	RDNGCA0203T	01/72	3		C,A	X
	Chico, CA	CHICCA0105T	12/62	3		C,A	X

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

CROSSBAR TANDEM IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CLASS	T = TSP S = TSPS	C = CAMA A = ANI	6-DIGIT TRANS- LATION	
SNE	Bridgeport 2, CT	BRPTCT0202T	03/59	4	S	C,A	X	
	Hartford 1, CT	HRFRCT0203T	06/56	4		C,A	X	
	Hartford 2, CT	HRFRCT0202T	08/65	4		T	C,A	X
	Meriden, CT	MRDNCT0002T	10/58	4			C,A	X
	New Haven 2, CT	NWHVCT0201T	04/57	4	S	C,A	X	
	New London, CT	NWLNCT0201T	05/62	4		C,A	X	
	Norwalk, CT	NRWLCT0201T	12/70	4		C,A	X	
	Stamford, CT	SMFRCT0101T	09/56	4		C,A	X	
	Waterbury, CT	WTRBCT0002T	11/57	4		C,A	X	
	CINN	Cincinnati (St. Bernard)	CNCNOHWS01T STBROHSB01T	10/49 05/63		4C Lcl.	S	C,A
<u>NON-BELL</u>		Rochester 1, NY	ROCHNYXAQ1T	03/58	4	C	X	
	Rochester 2, NY	ROCHNYXA02T	04/69	4	C,A	X		
<u>CANADA</u>								
TCTS	Barrie, Ont.	BARION1801T	05/64	4		C,A	X	
	Hamilton 1, Ont.	HMTNON1401T	02/61	4		C,A	X	
	Kitchener 1, Ont.	KTNRON0601T	09/64	3		C,A	X	
	London 1, Ont.	LONDON4801T	08/60	4		C,A	X	
	Montreal 2, Que.	MTRLPQ0102T	03/60	4		C,A	X	
	Ottawa 1, Ont.	OTWAON2301T	05/63	4		C,A	X	
	Quebec 1, Que.	QUBCPQ1401T	09/63	2		C,A	X	
	Sherbrooke, Que.	SHBKPQ4001T	03/66	3		C,A	X	
	Sudbury, Ont.	SDBRON9701T	12/64	3		C,A	X	
	Toronto 2, Ont.	TOROON0202T	08/58	4		C,A	X	
	Windsor, Ont.	WNDSON1201T	05/62	4		C,A	X	
	Calgary 1, Alta.	CLGRAB0101T	04/59	4		C,A	X	
	Regina 1, Sask.	REGNSK0101T	11/55	2		C	X	
	St. John 1, N.B.	STJHNSU01T	05/62	2		C,A	X	
Prince George, B.C. (XPT)	PGRGBC0102T			3		C		

LOCATION: If two or more units (marker groups) with different names are located in the same building, these are indicated by alternating symbols (*) or (#) after the names.

SWITCHING CLASSIFICATION: If Local and Toll traffic is handled, the system is classed here as "C." Local only systems are noted as "Lcl."

BELL SYSTEM NO. 5 CROSSBAR CLASS 3 & CLASS 4 OFFICES IN SERVICE - END OF 1976

CO.	LOCATION	CLLI	CLASS	C = CAMA A = ANI	CO.	LOCATION	CLLI	CLASS	C = CAMA A = ANI		
NE	Ayer, MA	AYERMAPLO1T	4	C	NY	Rome	ROMENYRMO1T	4	C		
	Gardner, MA	GRNRMAWE01T	4	C		Watertown	WTTWNYUN01T	4	C		
	Milford, MA	MLFRMAWA01T	4			Peekskill	PKSKNYPS01T	4			
	Plymouth, MA	PLMOMACO01T	4			Riverhead	RVHDNYRV01T	4			
	Salem, MA	SALMMANO01T	4	C		Southampton	SATNNYSNO1T	4			
	Walpole, MA	WLPLMASS01T	4	C		NJ	Penns Grove	PGRVNJPG01T	4	C	
	Falmouth, MA	FLMOMAMG01T	4				Vineland	VNLDNJVL01T	4	C	
	Hyannis, MA	HYNSMAOC01T	4	C			Burlington	BURLNJBU01T	4		
	Wareham, MA	WAHMMAH101T	4				Mt. Holly	MTHLNMJH01T	4	C	
	Northampton, MA	NATNMAMA01T	4				Washinton	WASHNJWA01T	4	C	
	Pittsfield 2, MA	PTFDMAFEO2T	4	C			Red Bank	RDBKNJRB01T	4		
	Newport, RI	NWPTRIBU01T	4				Freehold	FRHDNJFH01T	4	C	
	Woonsocket, RI	WNSCRICLO1T	4				PA	Warren	WRRNPAWA51T	3	C
	Portsmouth, NH	PTMONHISO1T	4					West Chester	WCHSPAWC51T	3	C
	Dover, NH	DOVRNHTH01T	4	C				Coatesville	CTVLPACV51T	4	
	Keene, NH	KEENNHWA01T	4	C		Kennett Square		KNSQPAKS51T	4		
	Laconia, NH	LACNNHNM01T	4	C		Lansdale		LNDLPALD51T	4	C	
	Burlington 2, VT	BURLVTMAO2T	4	C		Norristown		NRTWPANT51T	4	C	
	NY	Plattsburgh	PLBGNYPB03T	3		C,A		Pottstown	PTTWPAPT51T	4	C
Kingston		KGTNNYKGO1T	4	C	Warrington	WGTNPAWR51T		4	C		
Newburgh		NWBRNYNW01T	4	C	Stroudsburg	SRBGPAST51T		4	C		
Amsterdam		AMSTNYAM01T	4		Bloomsburg	BMBGPABL51T	4	C			
Catskill		CTSKNYCT01T	4	C	Du Bois	DUBSPADU51T	4	C			
Troy		TROYNYO401T	4		Connellsville	CNVLPAC051T	4				
Malone		MALNNYMM01T	4		Rochester	ROCHPARC51T	4	C			
Saranac Lake		SRLKNYLO1T	4	C	Clarion	CLARPACL51T	4	C			
Hornell		HRNLNYHLO1T	4	C	Sharon	SHRNPASH51T	4	C			
Ithaca		ITHCNYIHO1T	4	C	Pottsville	PTTVPAP051T	4	C			
Oneonta		ONNTNYOAO1T	4	C	Washington	WASHPAWA51T	4				
Batavia		BATVNYBT01T	4	C	Dover, DE	DOVRDEDV51T	4	C			
Dunkirk		DNKRNYDK01T	4	C							
Olean		OLENNYHA01T	4	C							
Geneva		GENVNYGNO1T	4	C							
Herkimer		HRKMNYHC01T	4	C							
Newark		NWRKNYNK01T	4	C							
Ogdensburg		OGBGNYOG01T	4								
Oneida		ONEDNYODO1T	4	C							
Oswego		OSWGNYSO1T	4	C							
Potsdam		PTSDNYPS01T	4	C							

BELL SYSTEM NO. 5 CROSSBAR CLASS 3 & CLASS 4 OFFICES IN SERVICE - END OF 1976

CO.	LOCATION	CLLI	CLASS	C = CAMA	CO.	LOCATION	CLLI	CLASS	C = CAMA
				A = ANI					A = ANI
C&P	Wheeling, WV	WLNGWVCP25T	3	C	SO	Salisbury, NC	SLBRNCMA01T	4	
	Bel Air, MD	BLARMDBL01T	4	C		Goldsboro, NC	GLBONCMA01T	4	
	Chestertown, MD	CHRTMDCH01T	4	C		Orangeburg, SC	ORBGSCMA01T	4	C
	Cumberland, MD	CMLDMDCM01T	4	C		De Land, FL	DELDFLMA01T	4	C
	Easton, MD	ESTNMDES01T	4	C		Cocoa, FL	COCOFLMA01T	4	
	Hagerstown, MD	HGTWMDHG01T	4	C		Fort Pierce, FL	FTPRFLMA01T	4	C
	Havre de Grace, MD	HDGRMDHV01T	4	C		Melbourne, FL	MLBRFLMA01T	4	C
	Westminster, MD	WMNSMDWM01T	4	C		Sanford, FL	SNFRFLMA01T	4	C
	Danville, VA	DAVLVADA01T	4	C		Titusville, FL	TTVFLMA01T	4	
	Norton, VA	NRTNVAN001T	4	C		SOCN	Danville, KY	DAVLKYMA05T	3
	Leesburg, VA	LSBGVALB01T	4	C	Greenwood, MS		GNWDMMA05T	3	C,A
	Winchester, VA	WNCHVAWC01T	4	C	Madisonville, KY		MDVIKYMA05T	3	C,A
	Elkins, WV	EKNSWVDV25T	4	C	Paintsville, KY		PNVLKYMA05T	3	C,A
	Fairmont, WV	FAMTWVMN25T	4	C	Tupelo, MS		TUPLMSMA05T	3	C,A
	Weirton, WV	WRTNWVDW25T	4	C	Winchester, KY		WNCHKYMA05T	3	C,A
	Lewisburg, WV	LWBGWVMW25T	4	C	Jasper, AL		JSPRALMT61T	4	C
	Logan, WV	LOGNWVHC25T	4	C	Gadsden, AL		GSDALMT61T	4	C
	Williamson, WV	WMSNWVLG25T	4		Huntsville, AL		HNVIAMLT61T	4	C
	Frederick, MD	FRDRMDFR01T	4	C	Sheffield, AL		SHFDALMT61T	4	C
	La Plata, MD	LPLTMDLA01T	4	C	Tuscaloosa, AL	TSCLALMT61T	4	C	
Annapolis, MD	ANNPMDAN01T	4	C	Selma, AL	SELMALMT61T	4	C		
Culpeper, VA	CLPPVACU01T	4	C	Crowley, LA	CRWYLAMA01T	4			
Onancock, VA	ONNCVAON01T	4	C	Minden, LA	MINDLAMA01T	4			
SO	Chipley, FL	CHPLFLMA01T	4	C,A	Monroe, LA	MONRLAMA01T	4	C	
	Laurinburg, NC	LRBGNCMA01T	3	C,A	Ruston, LA	RSTNLAMA01T	4	C	
	Thomasville, GA	THVLGAMA01T	3	C,A	Covington, LA	CVTNLAMA01T	4	C	
	Waycross, GA	WYCRGAMA01T	3	C,A	Hammond, LA	HMNDLAMA01T	4	C	
	Cordele, GA	CORDGAMA01T	4	A	Houma, LA	HOURLAMA01T	4		
	Dublin, GA	DBLNGAMA01T	4	C,A	Gulfport, MS	GLPTMSTS05T	4	C	
	Millen, GA	MLLNGAMA01T	4	C,A	Columbus, MS	CLBMSMA05T	4	C	
	Bainbridge, GA	BNBRGAMA01T	4	C,A	Biloxi, MS	BILXMSMA05T	4	C	
	Valdosta, GA	VLD SGAMA01T	4	C,A	McComb, MS	MCCMSMA05T	4	C	
	Albany, GA	ALBYGAMA01T	4	C,A	Grenada, MS	GRNDMSMA05T	4	C	
	Brunswick, GA	BRWKGAMA01T	4	A	Columbia, TN	CLMATNMA51T	4	C	
	Cartersville, GA	CRVLGAMA01T	4	C,A	Lebanon, TN	LBNNTNMA51T	4		
	Griffin, GA	GRFNGAMA01T	4	C,A	Shelbyville, TN	SHVLTNMA51T	4	C	
	Newnan, GA	NWNNGAMA01T	4	A	Athens, TN	ATHNTNMA51T	4		
	Morganton, NC	MGTNNCGR01T	4		Harriman, TN	HIMNTNMA51T	4	C	
	Newton, NC	NWTNNCMA01T	4		Morristown, TN	MRTWTNMA51T	4	C	
						Dyersburg, TN	DYBGTNMA51T	4	C

BELL SYSTEM NO. 5 CROSSBAR CLASS 3 & CLASS 4 OFFICES IN SERVICE - END OF 1976

CO.	LOCATION	CLLI	CLASS	C = CAMA	CO.	LOCATION	CLLI	CLASS	C = CAMA
				A = ANI					A = ANI
SOCN	Jackson, TN	JCSNTNMA51T	4		WISC	Stevens Point	STPTWI1511T	3	C,A
	Middlesboro, KY	MDBOKYMA05T	4	C		Watertown	WTTWWI0151T	3	C,A
	Owensboro, KY	OWBOKYMA05T	4	C		Berlin	BRLNWI0151T	4	
	Frankfort, KY	FRFTKYMA05T	4	C		Fond du Lac	FDULWI0151T	4	C,A
	Shelbyville, KY	SHVLKYMA05T	4	C		Oshkosh	OSHKWI0151T	4	C,A
	Mayfield, KY	MYFDKYMA05T	4		ILL	LaSalle	LSLLILLS07T	4	C
	Hattiesburg, MS	HTBGMSMA05T	4	C,A		Morris	MRRSILMS07T	4	C
	Laurel, MS	LARLMSMA05T	4	C,A		Sterling	STNGILSI01T	4	C
	Meridian, MS	MRDNMSTL05T	4	C,A		Woodstock	WDSTILWS07T	4	C
	Bowling Green, KY	BWLGKYMA05T	4	C		Cairo	CAIRILCF07T	4	C
	Henderson, KY	HNSNKYMA05T	4	C		Waukegan	WKGNILWK07T	4	
	Humbolt, TN	HMBLTNMA51T	4	C		Beardstown	BDTWILBD07T	4	C
						Quincy	QNCYILQY07T	4	C
				Danville	DAVLILDA07T	4	C		
				Canton	CNTNILCN07T	4	C		
				Rock Island	RCISILRI07T	4	C		
				Mount Vernon	MTVRILMV07T	4	C		
				Edwardsville	EWVLILER07T	4	C		
				Springfield	SPFDILSF07T	4	C		
				Vandalia	VANDILVA07T	4	C		
OHIO	Piqua	PIQUOH7750T	4		NW	Mason City, IA	MSCYIATC05T	3	C,A
	Coshocton	CSTNOH6250T	4	C		Owatonna, MN	OWTNMNOW05T	3	C,A
	Gallipolis	GLPLOH4450T	4	C		Bemidji, MN	BMDJMNBE05T	4	C
	Ironton	IRTNOH5350T	4	C		Shakopee, MN	SHKPMNSH05T	4	
	Lancaster	LNC SOH6550T	4	C		Crookston, MN	CKTNMNCRO5T	4	C
	Marietta	MRTTOH3750T	4	C		Thief River Falls, MN	TRFLMNTH05T	4	C
	Washington (Ct. Hse.)	WACHOH3350T	4	C		Anoka, MN	ANOKMNaN05T	4	
	East Liverpool	ELVROH3850T	4			Ames, IA	AMESIATC05T	4	C
	Findlay	FNDYOH4205T	4	C		Carroll, IA	CRRLIATC05T	4	C
	Sandusky	SND SOH6250T	4	C		Webster City, IA	WBCYIATC05T	4	C
	Tiffin	TFFNOH4450T	4	C		Charles City, IA	CHCYIATC05T	4	
MICH	Escanaba	ESCNMIMN09T	3	C,A	Clinton, IA	CLTNIADT05T	4		
	Petosky	PTSKMIMN19T	4	C,A	Ft. Madison, IA	FTMDIATC05T	4		
	Monroe	MONRMIMN09T	4		Iowa City, IA	IWCYIATC05T	4	C	
	Niles	NILSMIMN09T	4		Dubuque, IA	DUBQIATC05T	4	C	
	Iron Mountain	IRMTMIMN09T	4	C,A	Muscatine, IA	MSCTIATC05T	4		
	Marquette	MRQTMIMN19T	4	C,A	Oelwein, IA	OLWNIATC05T	4	C	
					Spencer, IA	SPNCIATC05T	4	C	
IND	Crawfordsville	CFVLIN0105T	4	C					
	Kokomo	KOKMIN0105T	4	C					
	New Castle	NWCSIN0105T	4	C					
	Vincennes	VINCIN0105T	4	C					
	Auburn	AUBNIN0105T	4	C					
	Huntington	HNTNIN0105T	4	C					
	Crown Point	CRPNINCX07T	4	C					
	Hammond	HMNDINHWO7T	4	C					

BELL SYSTEM NO. 5 CROSSBAR CLASS 3 & CLASS 4 OFFICES IN SERVICE - END OF 1976

CO.	LOCATION	CLLI	CLASS	C = CAMA A = ANI	CO.	LOCATION	CLLI	CLASS	C = CAMA A = ANI
NW	Storm Lake, IA	STLKIATC05T	4		SW	Dodge City, KA	DDCYKSMA05T	4	
	Grafton, ND	GFTNNDBC05T	4			Independence, KA	INDPKSMA05T	4	C
	Jamestown, ND	JMTWNDBC05T	4			Pittsburg, KA	PSBGKSL005T	4	C
	Aberdeen, SD	ABRSDSDC005T	4	C		Atchison, KA	ATSNKSSF05T	4	
	Deadwood, SD	DDWSDSDC005T	4			Lawrence, KA	LWRNKSV05T	4	C
	Winona, MN	WINOMNWI05T	4	C		Leavenworth, KA	LVWOKSSH05T	4	
	Watertown, SD	WTTWSDC005T	4	C		Olathe, KA	KSCYKSOL05T	4	
	Winner, SD	WNNRSDC005T	4			Ottawa, KA	OTWAKSMA05T	4	C
	Fremont, NB	FRMTNENW05T	4	C		El Dorado, KA	ELDOKSST05T	4	C
	Norfolk, NB	NRFLNENW05T	4	C		Emporia, KA	EMPRKS0805T	4	C
	Atlantic, IA	ATLTIATC05T	4	C		Newton, KA	NWTNKS0505T	4	
	McCook, NB	MCCKNENW05T	4			Winifield, KA	WNFDKSMI05T	4	C
	North Platte, NB	NPLTNENW05T	4	C		Abilene, KA	ABLNKSCD05T	4	C
	Sidney, NB	SDNYNENW05T	3	C,A		Concordia, KA	CNCRKSBR05T	4	C
	St. Cloud, MN	STCDMNL005T	3	C,A		Ada, OK	ADA-OKMA05T	4	C
	Virginia, MN	VRGNMNV05T	3	C,A		Ardmore, OK	ARMROKMA05T	4	C
	Wadena, MN	WADNMNWA05T	3	C,A		Chickasha, OK	CHCKOKMA05T	4	C
	Willmar, MN	WLMRMNWI05T	3	C,A		Norman, OK	NRMNOKMA05T	4	
	Windom, MN	WNDMMNWI05T	3	C,A		Shawnee, OK	SHWNOKMA05T	4	C
SW	Clinton, OK	CLTNOKMA05T	3	C	Elk City, OK	EKCYOKMA05T	4		
	Durant, OK	DRNTOKMA05T	3	C	Altus, OK	ALTSOKMA05T	4	C	
	Enid, OK	ENIDOKMA05T	3	C	Duncan, OK	DNCNOKMA05T	4	C	
	Moberly, MO	MBRLMOAM05T	3	C,A	Bartlesville, OK	BRVLOKFE05T	4	C	
	Parsons, KS	PRSSKSWA05T	3	C,A	Cushing, OK	CSNGOKMA05T	4	C	
	Flat River, MO	FLRVMOGE05T	4	C	McAlester, OK	MCLSOKMA05T	4	C	
	Hannibal, MO	HNBLMOAC05T	4	C	Waxahachie, TX	WAXCTXWE05T	4		
	Mexico, MO	MEXCMOJU05T	4	C	Cisco, TX	CISCTXHI05T	4		
	Chillicothe, MO	CHLCMOMI05T	4	C	Wharton, TX	WHTNTXWH05T	4	C	
	Sedalia, MO	SDLIMOTA05T	4	C	Beeville, TX	BEVLTXBV05T	4	C	
	Blytheville, AR	BYVLARPO05T	4	C	Seguin, TX	SGINTXSG05T	4	C	
	Fayetteville, AR	FYVLARHI05T	4	C					
	Forrest City, AR	FRCYARMA05T	4	C					
	Jonesboro, AR	JNBOARMA05T	4	C					
	Magnolia, AR	MGNLARMA05T	4						
	McGehee, AR	MCGHARMA05T	4						
	Pine Bluff, AR	PNBLARJE05T	4	C					
	Rogers, AR	RGRSARMA05T	4						
	West Memphis, AR	WMPARMA05T	4	C					
	Chanute, KA	CHNTKSSS05T	4	C					

BELL SYSTEM NO. 5 CROSSBAR CLASS 3 & CLASS 4 OFFICES IN SERVICE - END OF 1976

CO.	LOCATION	CLLI	CLASS	C = CAMA	CO.	LOCATION	CLLI	CLASS	C = CAMA
				A = ANI					A = ANI
MTN	Casper, WY	CSPRWYMA26T	3	C,A	PAC	San Luis Obispo, CA	SNLOCA0117T	3	C,A
	Great Falls, MT	GRFLMTMA73T	3	C,A		Yuba City, CA	YBCYCA0167T	4	C
	Helena, MT	HLNAMTMA44T	3	C,A		Red Bluff, CA	RDBLCA0152T	4	
	Roswell, NM	RSWLNMA62T	3	C,A		Fairfield-Suisun, CA	FRFDCA0109T	4	
	Miles City, MT	MLCYMTMA23T	4	C,A		El Centro, CA	ELCNCA0141T	4	C
	Logan, UT	LOGNUTMA75T	4	C		Jackson, CA	JCSNCA0122T	4	C
	Price, UT	PRICUTMA63T	4	C,A		Dinuba, CA	DINBCA0120T	4	
	Ogden, UT	OGDNUTMA62T	4	C,A		Rialto, CA	RILTCA1173T	4	C
	Vernal, UT	VRNLUTMA78T	4	C,A		Newhall, CA	NHLLCA0147T	4	C
	Pocatello, ID	PCTLIDMA23T	4	C,A		Escondido, CA	ESCNCA0166T	4	C
	Ft. Collins, CO	FTCLCOMA48T	4	C,A		South Tahoe, CA	STAHCA0135T	4	C
	Grand Junction, CO	GDJTCO2324T	4	C,A		Lakeport, CA	LKPTCA0204T	4	
	Greeley, CO	GRELCOMA35T	4	C,A		Paso Robles, CA	PSRBCA0150T	4	
	Sterling, CO	STNGCOMA52T	4	C,A					
	Durango, CO	DURNCOMA24T	4	C	SNE	Danielson, CT	DNSNCT0001T	4	C
	Alamogordo, NM	ALMGNMMA43T	4	C,A					
	Prescott, AZ	PRSCAZMA44T	4	C	CINN	Batavia, OH	BATVOHBA01T	4	
	Livingston, MT	LVTNMTMA22T	4	C,A					
	Rock Springs, WY	RCSPWYMA38T	4	C	NON-				
	Missoula, MT	MSSLMTMA72T	4	C,A	BELL				
PNB	Astoria, OR	ASTROT6401T	3	C,A	TCTS	North Bay	NRBAON2401T	3	C,A
	Bellingham, WA	BLHMWA0101T	3			Chicoutini	CCTMPQ0301T	3	C
	Bend, OR	BENDOR2401T	3	C,A		New Castle	NWCSNBSC01T	3	C
	Medford, OR	MDFDOR3301T	3	C,A		Val D'Or	VLDRPQ0101T	3	C
	Pendleton, OR	PNTNOR5601T	3	C,A					
	Aberdeen, WA	ABRDWA0101T	3	C					
	Salem, OR	SALMOR5801T	4	C					
	Longview, WA	LGVWWA0201T	4	C					
	Olympia, WA	OLYMWA0201T	4	C					
	Walla Walla, WA	WLWLWA0101T	4	C					

BELL SYSTEM STEP-BY-STEP CAMA SYSTEMS IN SERVICE-END OF 1976 (ALL ANI)

CO.	LOCATION	CLLI	CO.	LOCATION	CLLI	CO.	LOCATION	CLLI									
NE	Augusta, ME Brattleboro, VT Concord, NH Fitchburg, MA St. Johnsbury, VT Littleton, NH Montpelier, VT Rockland, ME Rutland, VT Waterville, ME	AGSTMEST01T	ILL	Joliet 1 Springfield	JOLTILJ006T SPFDILSF06T	MTN	Cedar City, UT Glendive, MT Globe, AZ Santa Fe, NM	CDCYUTMA58T GLNDMTMA36T GLOBAZMA42T SNFENMMA98T									
		BRBOVTMA01T															
		CNCRNHSO01T	WISC	Ashland Green Bay Hudson Janesville Marinette Rhineland Superior	ASLDWIO111T GNBYWIO111T HDSNWIO111T JNVLWIO111T MRNTWIO111T RHNLWIO111T SPRRWIO111T				PAC	Salida, CA Ventura, CA	SALDCAROON1 VNTRCA0101T						
		FTBGMA01T															
		STBYVTSM01T															
		LTTNNHPL01T	STEP-BY-STEP CSP'S (CLASS 3)			CO.	LOCATION	CLLI									
		MTPLVTSC01T	NW	Marshall, MN Sheldon IA Luverne, MN	MRSHMMA01T SHLNIATC01T LVRNMNLU01T	PNB	Klamath Falls, OR (1940, ANI) Roseburg, OR (1951, ANI)	KLFLO5401T RSBGR5701T									
		RKLDLME101T							SW	Brenham, TX Cleveland, TX Colby, KS El Dorado, AR Garden City, KS Great Bend, KS Hays, KS Hope, AR Hutchinson, KS Liberal, KS Manhattan, KS Marysville, KS Midland, TX Nacogdoches, TX Newport, AR Odessa, TX Ponca City, OK Texas City, TX Woodward, OK Temple, TX Victoria, TX Huntsville, TX Eldon, MO Kirkville, MO	NON-BELL	Abbotsford, B.C. (1953, CAMA) Campbell River, B.C. (1955) Dauphin, Man. (1952) Kamloops, B.C. (1961, CAMA, ANI) Nanaimo, B.C. (1960, CAMA, ANI) Vancouver 1, B.C. (FW-1, 1959, C,A)	ABFDBC0101T CBRVBC0101T DAPHMB0101T KMLPBC0101T NNIMBC0101T VANBC0101T				
		RTLDTVWE01T															
		WTVLMEAP01T															
GLFLNYGF01T	NY	Glens Falls							BRFRPABR11T ESTNPAEA11T HZTNPAHZ11T NWCSPAN11T	TCTS							
BRFRPABR11T													C&P	Beckley, WV Martinsburg, WV Newport News, VA Parkersburg, WV Staunton, VA	BCKLWVWD21T MRBGVWBU21T NWNWVAHU01T PRBGVWKT21T STTNVAST01T		
ESTNPAEA11T																	
HZTNPAHZ11T																	
NWCSPAN11T																	
BCKLWVWD21T																	
MRBGVWBU21T																	
NWNWVAHU01T																	
PRBGVWKT21T																	
STTNVAST01T																	
AGSTGAMT01T	OHIO	Barnesville Hillsboro Middletown New Lexington Springfield Steubenville Upper Sandusky Winchester Xenia Zanesville Fremont	BRVIOH4250T HLBOOH3950T MDTWOH4250T NWLXOH3450T SPFD0H3250T SBVIOH2850T UPSNOH2950T WNCHOH6950T XENIOH3750T ZNVLOH2750T FRMTOH3350T														
GSVLGAMA01T																	
BRVIOH4250T																	
HLBOOH3950T																	
MDTWOH4250T																	
NWLXOH3450T																	
SPFD0H3250T																	
SBVIOH2850T																	
UPSNOH2950T																	
WNCHOH6950T																	
XENIOH3750T																	
ZNVLOH2750T																	
FRMTOH3350T																	
CLMBINO105T	IND	Columbus Gary	GARYING006T														

30

UNIT 9

BELL SYSTEM STEP-BY-STEP CLASS 4 OFFICES IN SERVICE END OF 1976

CO.	LOCATION	CLLI	CO.	LOCATION	CLLI	CO.	LOCATION	CLLI		
NE	Fitchburg, MA	FTBGMAMA01T	NY	Cobleskill	CBLSNYZB01T	C&P	Beckley, WV	BCKLWVWD21T		
	New Bedford, MA	NBFRMAAE01T		Glens Falls	GLFLNYGF01T		Parkersburg, WV	PRBGWVKT21T		
	Newburyport, MA	NBPTMAGR01T		Greenwich	GNWCNYGW01T		Morgantown, WV	MGTWVWFY21T		
	Greenfield, MA	GNFDMACH01T		Hudson	HDSNNYHD01T		Martinsburg, WV	MRBGWVBU21T		
	North Adams, MA	NADMMASO01T		Schenectady	SCHNNYSO01T		Leonardtwn, MD	LNTWMDLT01T		
	Pittsfield 1, MA	PTFDMAFE01T		Ticonderoga	TCNDNYTI01T		Newport News, VA	NWVVAHU01T		
	Claremont, NH	CLMTNHBRO1T		Bath	BATHNYBH01T		Staunton, VA	STTNVAST01T		
	Concord, NH	CHCRNHSO01T		Corning	CRNGNYCG01T		Christiansburg, VA	CRBGVACB01T		
	Conway, NH	CNWNHYHA01T		Cortland	CRLDNYCR01T		Radford, VA	RDFRVARA01T		
	Nashua, NH	NASHNHMA01T		Elmira	EMIRNYEM01T					
	August, ME	AGSTMEST01T		Lockport	LCPTNYLK01T		SO	Lenoir, NC	LENRNCHA01T	
	Farmington, ME	FRTNMEHI01T		Niagara Falls	NGFLNYPO01T			Shelby, NC	SHLBNCA01T	
	Bath, ME	BATHMEHI01T		Auburn	AUBNNYAU01T			Statesville, NC	SSVLNCA01T	
	Biddeford, ME	BDFRMEJE01T		Sodus	SODSNYSO01T			Wilmington, NC	WLMGNCFO01T	
	Calais, ME	CALSMECH01T						Hendersonville, NC	HNSNNCA01T	
	Dover Foxcroft, ME	DVFXMEMA01T		NJ	Manahawkin			MNHWNJMH01T	Aiken, SC	AIKNSCMA01T
	Ellsworth, ME	ELWOMEMA01T							Sumter, SC	SMTRSCTL01T
	Houlton, ME	HLTNMECO01T	PA	Easton	ESTNPAAE11T	Anderson, SC		ARSNSCA01T		
	Exeter, NH	EXTRNHCE01T		Lansdale	LNDLPALD11T	Spartanburg, SC		SPBGSCMA01T		
	Norway, ME	NRWYMEFA01T		Lebanon	LBNNPALE11T	Americus, GA		AMRCGAMA01T		
	Presque Isle, ME	PRISMESE01T		Lewistown	LWTWPALE11T	Vidalia, GA		VDALGAMA01T		
	Rockland, ME	RKLDMELI01T		Hazleton	HZTNPAHZ11T	Hazelhurst, GA	HZHLGAMA01T			
	Waterville, ME	WTVLMEAP01T		McDonald	MCDDPAMC11T	Jesup, GA	JESPGAMA01T			
	Bellows Falls, VT	BLFLVTHE01T		Shamokin	SHMKPASH11T	Athens, GA	ATHNGAMA01T			
	Bennington, VT	BGTNVTPL01T		Sunbury	SNBYPASU11T	Augusta, GA	AGSTGAMT01T			
	Brattleboro, VT	BRBOVTMA01T		Bellefonte	BLLFPABE11T	Carrollton, GA	CRTNGAMA01T			
	Burlington 1, VT	BURLVTMA01T		Clearfield	CLFDPACL11T	Gainesville, GA	GSVLGAMA01T			
	Middlebury, VT	MDLBVTCC01T	Butler	BTLRPABT11T	Rome, GA	ROMEGATL01T				
	Montpelier, VT	MTPLVTSC01T	Charleroi	CHRLPACH11T	Brooksville, FL	BKVLFLMA01T				
	Morrisville, VT	MRVLVTUN01T	Indiana	INDIPAIN11T	Palatka, FL	PLTKFLMA01T				
	Rutland, VT	RTLDTWE01T	New Castle	NWCSPANC11T	Key West, FL	KYWSFLMA01T				
	St. Albans, VT	STALVTBA01T	Uniontown	UNTNPAUN11T						
St. Johnsbury, VT	STBYVTSM01T	Bradford	BRFRPABR11T							
Narrangansett, RI	NRGNRIMA01T									

BELL SYSTEM STEP-BY-STEP CLASS 4 OFFICES IN SERVICE END OF 1976

CO.	LOCATION	CLLI	CO.	LOCATION.	CLLI	CO.	LOCATION	CLLI	
SOCN	Anniston, AL	ANTNALMT51T	IND	Anderson	ARNSIN0105T	NW	Little Falls, MN	LTFMLNLF01T	
	Flomaton, AL	FMTNALMT51T		Attica	ATTCIN0105T		Ortonville, MN	ORVLMNOR01T	
	Opelika, AL	OPLKALMT51T		Frankfort	FRFTIN0105T		Austin, MN	AUSTMNAU01T	
	Clarksdale, MS	CSDLMSMA01T		Marion	MARNIN0105T		Preston, MN	PSTNMNPRO1T	
	Corinth, MS	CRNTMSMA01T		Muncie	MUNCIN0105T		Luverne, MN	LVRNMNLU01T	
	New Iberia, LA	NWIBLAMA01T		Shelbyville	SHVLIN0105T		Marshall, MN	MRSHMNMA01T	
	Leesville, LA	LEVLLAMA01T		Clinton	CLTNIN0105T		Grand Rapids, MN	GDRPMNGRO1T	
	Donaldsonville, LA	DNVLLAMA01T		Columbus	CLMBIN0105T		Hibbing, MN	HBNGMNH101T	
	Maysville, KY	MYVLKYMA01T		New Albany	NWALIN0105T		Brainerd, MN	BRNRMNBRO1T	
	Pikeville, KY	PKVLKYMA01T		Gary	GARYING006T		Detroit Lakes, MN	DTLKMNDLO1T	
	Hopkinsville, KY	HPVLKYMA01T		WISC	Ashland		ASLDWIO111T	Fergus Falls, MN	FRFLMNFF01T
	Clarksville, TN	CLVLTNMA11T			Hudson		HDSNWIO111T	Ottumwa, IA	OTTMIAATCO1T
	OHIO	Middletown			MDTWOH4250T		Baraboo	BARBWIO111T	Algona, IA
Springfield		SPFDOH3250T	Superior		SPRRWIO111T	Iowa Falls, IA	IWFLIATCO1T		
Xenia		XENIOH3750T	Marinette		MRNTWIO111T	Burlington, IA	BURLIATCO1T		
Barnesville		BRVIOH4250T	Rhineland		RHNLWIO111T	Decorah, IA	DCRHIATCO1T		
New Lexington		NWLXOH3450T	Madison(Term.only)			Sheldon, IA	SHLNIATCO1T		
Steubenville		SBVIOH2850T	Green Bay		GNDWIO111T	Minot, ND	MNOTNDBC01T		
Zanesville		ZNVLOH2750T	Sturgeon Bay		STBYWIO111T	Dickinson, ND	DCSNNDBC01T		
Hillsboro		HLBOOH3950T	Manitowoc		MNTWWIO111T	Williston, ND	WLSTNDBC01T		
Fremont		FRMTOH3350T	West Bend		WBNDWIO111T	Mobridge, SD	MBRGSDCO01T		
Upper Sandusky		UPSNOH2950T	Lake Geneva		LKGNWIO111T	Pierre, SD	PIRRSDCO01T		
Winchester		WNCHOH6950T	Beaver Dam		BVDMWIO111T	Sauk Centre, MN	SKCTMNSCO1T		
MICH		Mt. Clemens	MTCLMIMN08T	ILL	Joliet 1	JOLTILJ006T		Pine City, MN	PNCYMNP01T
		Hillsdale	HLDLMIMN08T		Springfield	SPFDILSF06T		Montevideo, MN	MTVDMNMD01T
	Bad Axe	BDAXMIMN08T	CINN	Hamilton, OH	HMTNOHHM01T				
	Bay City	BYCYMIMN08T		Williamstown, KY	WLTWKYWT01T				
	Cadillac	CDLCMIMN08T							
	Holland	HLLDMIMN08T							
	Big Rapids	BGRPMIMN08T							
	Reed City	RDCYMIMN02T							
	Battle Creek	BTCKMIMN08T							
	Benton Harbor	BNHRMIMN08T							

BELL SYSTEM STEP-BY-STEP CLASS 4 OFFICES IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	CO.	LOCATION	CLLI	CO.	LOCATION	CLLI		
SW	Eldon, MO	ELDNMOEX09T	MTN	Glasgow, MT	GLSCMTMA22T	PAC	Ely, NV	ELY-NV01B2T		
	Kirkville, MO	KKVLMOM009T		Glendive, MT	GLNDMTMA36T		Winnemucca, NV	WNMCNV01B2T		
	Cape Girardeau, MO	CPGRMOED09T		Havre, MT	HAVRMTMA26T		Marysville, CA	NYVICA0100T		
	Poplar Bluff, MO	PPBLMOSU09T		Shelby, MT	SHLBMTMA43T		Portola, CA	PTOLCA0100T		
	El Dorado, AR	ELDOARMA09T		Butte, MT	BUTTMTMA72T		Willows, CA	WLWSCA1100T		
	Hope, AR	HOPEARMA09T		Missoula, MT	MSSLMTMA54T		Dunsmuir, CA	DNSMCA1100T		
	Newport, AR	NWPTARMA09T		Sheridan, WY	SHRDWYMA67T		Yreka, CA	YREKCA1100T		
	Garden City, KS	GRCYKS0709T		Worland, WY	WRLDWYMA34T		Auburn, CA	AUBNCA0100T		
	Great Bend, KS	GRTBKSST09T		Fort Morgan, CO	FTMRCOMA86T		Grass Valley, CA	GRVYCA0100T		
	Harper, KS	HRPRKSMA09T		Craig, CO	CRAGCOMA82T		Woodland, CA	WDLDCA1100T		
	Hutchinson, KS	HTSNKS0209T		Glenwood Springs, CO	GLSPCOMA94T		Fairfield			
	Liberal, KS	LBRLKS0409T		Alamosa, CO	ALMSCOMA58T		- Suisun SXS, CA	FRFDCA0100T		
	Pratt, KS	PRTTKSNI09T		La Junta, CO	LJNTCOMA38T		Fort Bragg, CA	FTBGCA0100T		
	Manhattan, KS	MNHTKS0409T		Lamar, CO	LAMRCOMA33T		Napa, CA	NAPACA0100T		
	Marysville, KS	MYVIKSEL09T		Deming, NM	DMNGNMMA54T		Petaluma, CA	PTLMCA0100T		
	Sabetha, KS	SBTHKSVI09T		Farmington, NM	FRTNNMMA32T		Ukiah, CA	UKIHCA0100T		
	Colby, KS	CLBYKS0509T		Gallup, NM	GLLPNMMA72T		Vallejo, CA	VLLJCA0100T		
	Hays, KS	HAYSKS1109T		Las Cruces, NM	LSCRNMMA52T		Lodi, CA	LODICA0100T		
	Ponca City, OK	PNCYOPMA09T		Las Vegas, NM	LSVGNMMA42T		Sonora, CA	SNRACA1100T		
	Hugo, OK	HUGOOKMA09T		Raton, NM	RATNNMMA44T		Coalinga, CA	CLNGCA0110T		
	Woodward, OK	WDWRKMA09T		Santa Fe, NM	SNFENMMA98T		Hanford, CA	HNFRCOA110T		
	Muskogee, OK	MSKGOKMA09T		Clovis, NM	CLVSNMMA76T		Merced, CA	MRCDCA0100T		
	Pampa, TX	PMPTTXPP09T		Payette, ID	PYTTIDMA64T		Visalia, CA	VISLCA1110T		
	McAllen, TX	MCALTXMU09T		Cedar City, UT	CDCYUTMA58T		Mojave	MOJVCA011T		
	Brownsville, TX	BWVLTXLI09T		Richfield, UT	RCFDUTMA89T		Ventura SXS	VNTRCA0164T		
	Temple, TX	TMPLTXDN09T		Flagstaff, AZ	FLGSAZMA77T		Pomona	POMNCA0172T		
	Brenham, TX	BRHMTX0109T		Globe, AZ	GLOBAZMA42T					
	Cleveland, TX	CLEVTXCL09T		Yuma, AZ	YUMAAZMA78T		SNE	Ansonia Derby	DRBYCT0001T	
	Freeport, TX	FRPTTXFP09T		Bisbee, AZ	BISBAZMA43T			Bridgeport 1	BRPTCT0101T	
	Hearne, TX	HERNTXHE09T						Bristol	BRSTCT0001T	
	Huntsville, TX	HNVITXHN09T		PNB	Bremerton, WA			BMTNWA0101T	Canaan	CNANCT0001T
	Nacogdoches, TX	NCGDTXNC09T			Centralia, WA			CENLWA0101T	Meriden	MRDNCT0001T
	Rosenberg, TX	RSBGTXRR09T			Pt. Angeles, WA			PTANWA0101T	Middletown	MDTWCT0001T
	Texas City, TX	TXCYTXTC09T			Ephrata, WA			EPHRWA0101T	New Britain	NWBRCT0001T
	Silsbee, TX	SLSBTXSL09T			Wenatchee, WA			WNTCWA0101T	New Milford	NMFRCT0001T
	Victoria, TX	VCTATX0109T			Albany, OR			ALBYOR6301T	Norwalk	NRWLCT0101T
	Alpine, TX	ALPITXAP09T			Lewiston, ID			LSTNID0101T	Norwich	NEQXXR0001T
	Big Spring, TX	BGSPTX0109T			Newport, OR			NWPTOR3501T	Saybrook	SYBKCT0001T
	Midland, TX	MDLDTXMU09T			Vancouver, WA			VANCWA0101T	Torrington	TRTNCT0001T
	Odessa, TX	ODSSTXFE09T						Willimantic	WLMNCT0001T	
								Windsor Locks	WLKSCT0001T	

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R =RTA	REMARKS
						SHIP	SERVICE		
NE	CONCORD, NH	CNCRNHSOCGO	1E-4/5	156	----	10/77	10/78		
	WHITE RIVER JCT., VT	WRJTVTGA02T	1A-3/5	300	----	5/78	5/79	T, 4W*	
	BANGOR, ME	BNGRMEPACGO	1A-4/5	250	----	1979	1980	T	
	RUTLAND, VT	RTLDVTWE02T	1A-4/5	226	----	5/79	5/80		
	BURLINGTON, VT	BURLVTMA03T	1A-4/5	250	----	8/77	10/78		
	MANCHESTER, NH	MNCHNHCOCGE	4E/3	---	10.6	5/81	5/82		
	ST. JOHNSBURY, VT	STBYVTSM02T	1E-4/5	116	----	5/79	5/80		
	MONTPELIER, VT	MTPLVTSC02T	1E-4/5	175	----	5/81	5/82		
	PORTLAND, ME		4E/3	---	12.1	1980	1981	T	
	CAMBRIDGE 18, MA	CMBRMA0118T	4E/2	---	14.6	12/78	8/79	T	
SPRINGFIELD 2, MA	SPFDMABE02T	4E/2	---	17.5	4/79	4/80	T		
NY	NEW YORK 12 (REGO PK)	NYCQNYRP08T	4E/3	---	17.8	6/76	8/77	T	
	NEW YORK-BW24	NYCMNYBW24T	4E/3	---	28.4	5/77	4/78	I	International
	GARDEN CITY 2E	GRCYNYGC02T	4E/4	---	18.1	4/78	3/79	T	
	WHITE PLAINS 5	WHPLNY0504T	4E/1	---	15.5	7/79	6/80	I	International
	POUGHKEEPSIE 1A		1A-3/5	403	----	3/79	4/80		
NJ	FREEHOLD 2	FRHDNJ0202T	4E/4	---	3.9	10/77	5/78	T	
	CAMDEN 3	CMDNNJCO03T	4E/2	---	19.9	7/78	4/79	T	
	NEWARK 8	NWRKNJ0208T	4E/2	---	21.2	8/79	6/80	T	
	ROCHELLE PK 3	RCPKNJ0203T	4E/4	---	10.6	9/81	5/82	T	
PA	UNION TOWN	UNTNPAN81T	1E-4/5	188	----	2/76	1/77		
	HAZELTON	HZTNPAHZ81T	1E-4/5	256	----	6/76	6/77	T	
	WAYNE 2	WAYNPALA42T	4E/1	---	25.5	10/76	9/77		
	GREENSBURG	GNBGPAGR81T	1E-4/5	137	----	1/78	10/78		
	SCRANTON	SCTNPASC82T	1A/3	389	----	2/80	4/81	T	Add & Split Existing 1E
	NEW CASTLE	NWCSPANC81T	1E-4/5	145	----	1/79	10/79		
	SHARON		1E-4/5	153	----	1/80	10/80		
	INDIANA		1E-4/5	140	----	8/81	5/82		
	PITTSBURGH 3	PITBPADG43T	4E/4	---	6.8	1/77	11/77	T	
	WASHINGTON		1E-4/5	180	----	9/80	7/81		
	PHILADELPHIA 4	PHLAPASL42T	4E/3	---	22.7	9/79	3/80		
HARRISBURG	HRBGPAAH42T	4E/2	---	18.2	2/80	7/80	T		

*4W indicates 4 wire hi-lo network.

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R =RTA	REMARKS
						SHIP	SERVICE		
C&P	PARKERSBURG, WV	PRBGWVKT22T	1E-4/5	133	----	11/77	10/78		
	WASHINGTON 6, DC	WASHDCSW06T	4E/3	---	13.3	6/77	3/78		
	MORGANTOWN, WV	MGTWVWFY22T	1E-4/5	92	----	8/77	7/78		
	RICHMOND 2, VA	RCMDVAIT03T	4E/4	---	6.5	10/78	4/79		
	CLARKSBURG, WV	CLBGWVMA24T	1A/3	340	----	6/79	4/80		
	WHEELING, WV	WLNQWVCP26T	1A-3/5	214	----	7/80	5/81		
	BECKLEY, WV	BCKLWVWD22T	1A-4/5	215	----	12/79	10/80		
	BALTIMORE 10, MD	BLTMDCH01T	4E/3	---	27.9	7/79	5/80	T	
SO	ATLANTA 4, GA	ATLNGATL01T	4E/3	---	42.0	3/75	1/77	T	
	WILMINGTON, NC	WLMGNCFO02T	1E-4/5	319	----	4/76	4/77		
	AUGUSTA, GA	AGSTGAMT02T	1E/4	138	----	5/76	5/77	T/R	
	ASHEVILLE, NC	AHVLNCOH02T	1E-4/5	91	----	12/76	9/77	T	
	OJUS 3, FL	OJUSFLTL03T	4E/4	---	20.1	9/77	5/78	T	
	BROOKSVILLE, FL	BKVLFLJF02T	1E-4/5	122	----	2/78	12/78	T	
	CHARLESTON, SC	CHTNSCDT04T	1A/4	364	----	12/78	12/79	T	
	ALBANY, GA	ALBYGAMAE03	1A-4/5	133	----	12/77	12/78	T/R, 4W	
	GAINESVILLE, GA	GSVLGAMAE02	1A-4/5	171	----	4/78	4/79	T/R	
	ORLANDO 3, FL	ORLDFLPR03T	4E/2	---	30.0	12/80	8/81	T	
	SHELBY, NC	SHLBNCMA02T	1E-4/5	205	----	3/79	1/80		
	CHARLOTTE, NC	CHRLNCCA03T	4E/2	---	27.0	6/79	3/80		
	WAYCROSS, GA	WYCRGAMAE02	1A-4/5	193	----	4/79	4/80	T/R	
	VALDOSTA, GA	VLD SGAMAE02	1A-4/5	190	----	4/81	4/82	T/R	
	WEST PALM BEACH, FL	WPBHFLAN04T	4E/2	---	15.3	9/79	6/80	T	
	COCOA, FL	COCOFLMA02T	1A/4	200	----	9/81	9/82	T	
	LAURINBURG, NC	LRBGNCMA	1E-3/5	250	----	5/81	4/82		
	ASHEVILLE, NC	AHVLNCOH03T	4E/3	---	8.4	1Q81	1Q82	T	
HENDERSONVILLE, NC	HNVLNCCH02T	1E-4/5	190	----	7/80	4/81			

35

Chart 11

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R =RTA	REMARKS
						SHIP	SERVICE		
SOCN	CHATTANOOGA, TN	CHTGTNNS71T	1E/4	161	----	3/76	2/77	T	Class 4C only
	CHATTANOOGA, TN	CHTGTNNS73T	4E/4	---	10.2	11/78	12/79	T	
	ANNISTON, AL	ANTNALMT01T	1E-4/5	199	----	5/76	4/77	T	
	KNOXVILLE, TN	KNVLTNMA43T	4E/4	---	18.2	11/79	12/80	T	
	FRANKFORT, KY	FRFTKYMAB1T	1A-4/5	333	----	11/77	12/78	T,4W	
	OWENSBORO, KY	OWBOKYMAB1T	1A-4/5	149	----	9/78	10/79	T,4W	
	MOBILE, AL	MOBLALMT01T	4E/3	---	9.2	8/78	4/79	T	
	MONROE, LA	MONRLAMA03T	1A-4/5	340	----	9/78	4/80	4W	
	GULFPORT, MS	GLPTMSK-06T	1A-4/5	390	----	1/79	12/79	4W	
	MONTGOMERY, AL	MTGMALMT01T	4E/3	---	10.6	6/77	4/78	T	
	PADUCAH, KY	PDCHKYMAB1T	1E-3/5	80	----	6/78	5/79	T,4W	
	OPELIKA, AL	OPLKALMT01T	1A-4/5	140	----	6/79	3/80		
	NASHVILLE 2, TN	NSVLTNMT43T	4E/2	---	25.0	3/77	12/77	T	
	SELMA, AL	SELMALMT01T	1A-4/5	125	----	6/79	4/80		
	BIRMINGHAM, AL	BRHMALMT01T	4E/2	---	30.0	6/80	4/81	T	
	LAFAYETTE, LA	LAFYLAMA03T	1E/3	129	----	4/77	7/78	4W	
	ALEXANDRIA, LA	ALXNLAMA03T	1A-4/5	150	----	7/79	7/80		
	TUSCALOOSA, AL	TSCLALMT01T	1A-4/5	200	----	7/80	6/81		
	TUPELO, MS	TUPLMSMA06T	1A-4/5	215	----	4Q/80	4Q/81	4W	
	GADSDEN, AL	GDSDALMT01T	1A-4/5	200	----	8/78	7/79	T,4W	
	HUNTSVILLE, AL	HNVIALMT01T	1A-4/5	200	----	11/79	10/80		
	JASPER, AL	JSPRALMT01T	1A-4/5	125	----	8/81	6/82	4W	
	PAINTSVILLE, KY	PNVLKYMAB1T	1A-3/5	129	----	8/78	8/79	T,4W	
	WINCHESTER, KY	WNCHKYMAB1T	1A-3/5	114	----	1/79	2/80	T,4W	
	MADISONVILLE, KY	MDVIKYMAB1T	1A-3/5	133	----	10/79	11/80	T,4W	
	DANVILLE, KY	DAVLKYMAB1T	1A-3/5	160	----	4Q/79	10/80	T,4W	
	BOWLING GREEN, KY	BWLGKYMAB1T	1A-4/5	360	----	2Q/80	2Q/81	T,4W	
	MERIDIAN, MS	MRDNMSK-06T	1A-4/5	326	----	11/78	10/79	4W	
	GREENWOOD, MS	GNWDMMSMA06T	1A-4/5	240	----	2Q/80	2Q/81	4W	
	MEMPHIS, TN	MMPHTNMA43T	4E/2	---	25.0	4/80	2/81	T	
	NEW ORLEANS 3, LA	NWORLAMA04T	4E/2	---	25.0	9/79	7/80	T	
	LOUISVILLE 2, KY	LSVLKY-----	4E/2	---	25.0	7/79	5/80	T	

36

Chart 11

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R =RTA	REMARKS
						SHIP	SERVICE		
OHIO	SPRINGFIELD	SPFDOH3250T	1A-4/5	280	----	5/77	5/78	T	
	COLUMBUS 3	CLMBOH1103T	4E/3	---	10.0	2/76	4/77		
	CLEVELAND 3	CLEVOH0302T	4E/2	---	30.0	1/79	12/79		
MICH	FLINT 2	FLNTMIMN17T	1E/4	176	----	5/79	3/80	4W	
	DETROIT (METRO)	DTRMIBH50T	4E/2	---	37.0	----	1981	T	
IND	MUNCIE	MUNCINO102T	1E-4/5	25	----	2/77	5/78	T	Class 4P only
	COLUMBUS	CLMBINO102T	1E-4/5	210	----	11/77	8/78		
	GARY (IBT)	GARYINGO50T	1E-4/5	26	----	6/76	5/77		
	NEW ALBANY	NWALINO101T	1E-4/5	217	----	12/76	10/77		
	INDIANAPOLIS	IPLSINO102T	4E/2	---	25.0	12/79	6/80		
WISC	JANESVILLE	JNVLWIO181T	1E-4/5	154	----	9/76	6/77	T	Add Hi-Lo-Replace 4XB
	GREEN BAY - JEFF.	GNBYWIO181T	1E-4/5	174	----	12/76	10/77		
	WAUKESHA 3	WKSHWIO231T	4E/2	---	20.8	6/78	3/79		
	EAU CLAIR	EUCLWIO181T	1E-2/5	87	----	7/77	5/78		
ILL	JOLIET	JOLTILJO50T	1E/4	84	----	4/76	2/77	T	
	CHICAGO 8	CHCGILCG58T	4E/3	---	38.6	10/77	7/78		
	ROCKFORD	RCFRILRT51T	1E/3	132	----	1/78	11/78		
	OAK BROOK	OKBRILOA52T	4E/4	---	14.6	3/80	3/81		
	NORTHBROOK 3	NBRKILNT52T	4E/3	---	13.1	4/81	4/82		
NW	SIOUX FALLS, SD	SXFLSDCO06T	1E/3	224	----	2/76	4/77	T,4W	International
	BRAINERD, MN	BRNRMNBR06T	1E-4/5	121	----	6/76	4/77		
	ST. CLOUD, MN	STCDMNT006T	1E-3/5	203	----	12/76	11/77		
	MINNEAPOLIS 3, MN	MPLSMNDT18T	4E/2	---	50.0	3/79	5/80		
	MASON CITY, IA	MSCYIATC07T	1A-3/5	400	----	2/80	2/81		
	BISMARCK, ND	BSMRNBC07T	1E/3	180	----	1/79	5/80		
	ABERDEEN, SD	ABRDSDCO05T	1E-4/5	265	----	7/80	11/81		
	IOWA CITY, IA	IWCYIATC07T	1A-4/5	400	----	9/79	7/80		
	OMAHA 2, NE	OMAHNENW14T	4E/2	---	20.1	4/78	4/79		
	CEDAR RAPIDS, IA	CDRRIADT03T	1E-4/5	370	----	7/78	7/79		
	GRAND ISLAND, NE	GDISNENW38C	1A-4/5	250	----	12/78	10/79		
	AUSTIN, MN	AUSTMNAU06T	1E-4/5	130	----	2Q/80	1Q/81		
BURLINGTON, IA	BURLIATC07T	1A-3/5	300	----	9/80	6/81			

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R=RTA	REMARKS
						SHIP	SERVICE		
SW	SAN ANTONIO 2, TX	SNANTXCA02T	4E/2	---	26.1	4/76	5/77	T	
	FAYETTEVILLE 1, AR	FYVLARHI01T	1E-4/5	185	----	6/76	6/76	T,4W	
	HARLINGEN, TX	HRLNTXHG02T	1E-4/5	219	----	8/76	10/77	T	
	ROSENBERG, TX	RSBGTXRR01T	1E-4/5	230	----	12/76	11/77		
	LUBBOCK 1, TX	LBCKTXPS02T	1A-3/5	319	----	7/77	8/78	T	
	FORT SMITH, AR	FTSMARSU02T	1E-4/5	260	----	9/77	9/78	T,4W	
	PINE BLUFF 1, AR	PNBLARJE01T	1E-4/5	260	----	5/77	6/78	T,4W	
	NACOGDOCHES, TX	NCGDTXNC01T	1A-4/5	250	----	1/78	12/78		
	BEAUMONT, TX	BUMTTXTE02T	1A-4/5	402	----	7/77	9/78		
	HOUSTON 4, TX	HSTNTX0144T	4E/2	---	55.9	1/78	3/79	T	
	HUTCHINSON, KS	HTSNKS0202T	1A-4/5	200	----	4/78	4/79	T,4W	
	HAYS 1, KS	HAYSKS1102T	1A-4/5	235	----	6/78	6/79	T,4W	
	HUNTSVILLE, TX	HNVTXHN01T	1A-4/5	165	----	5/78	4/79		
	FORT WORTH 2, TX	FTWOTXED24T	4E/2	---	21.1	3/78	5/79	T	
	OKLAHOMA CITY 2, OK	OKCYOKCE04T	4E/2	---	24.8	6/78	5/79	T	
	JONESBORO, AR	JNBOARMA01T	1E-4/5	260	----	11/77	10/78	T,4W	
	VICTORIA, TX	VCTATX0101T	1A-4/5	300	----	3/79	2/80	T,4W	
	WACO 2, TX	WACOTX0102T	1A-3/5	425	----	12/78	12/79	T,4W	
	ST. LOUIS 3, MO	STLSMO0934T	4E/1	---	34.3	5/79	4/80	T	
	CAPE GIRARDEAU 1, MO	CPGRMOED02T	1A-4/5	172	----	12/77	8/78	4W	
	JOPLIN 1, MO	JPLNMOMA11T	1A-4/5	123	----	9/81	6/82	T,4W	
	MOBERLY, MO	MBRLMOAM02T	1A-3/5	95	----	8/79	4/80	T,4W	
	CHILLICOTHE 1, MO	CHLCMOMI02T	1A-4/5	74	----	4/79	1/80	4W	
	MEXICO 1, MO	MEXCMOJU01T	1A-4/5	96	----	8/79	4/80	T,4W	
	FLAT RIVER 1, MO	FLRVMOGE01T	1A-4/5	90	----	3/80	12/80	4W	
	HANNIBAL, MO	HNBLMOAC01T	1A-4/5	96	----	9/79	6/80	4W	
	SIKESTON 1, MO	SKSTMOGRO4T	1A-4/5	85	----	6/80	3/81	T,4W	
	KIRKSVILLE 1, MO	KKVLMOM002T	1A-4/5	100	----	1/80	10/80	4W	
	TULSA 2, OK	TULSOKTB04T	4E/3	---	20.4	7/79	5/80	T	
	WOODWARD, OK	WDWROKMA03T	1A-4/5	176	----	1/78	11/78	T	
	PONCA CITY, OK	PNCYOKMA03T	1A-4/5	200	----	9/78	7/79		
	AUSTIN, TX	AUSTTXGRO2T	4E/3	---	14.6	2/81	4/82	T	
	ABILENE 1, TX	ABLNTXOR03T	1A-3/5	250	----	11/79	12/80	T,4W	
	ABILENE 2, TX	ABLNTXOR02T	4E/2	---	14.0	2/81	6/82	T	
	AMARILLO 3, TX	AMRLTX0202T	4E/2	---	15.0	6/81	10/82	T	
	TEMPLE, TX	TMPLTXDN01T	1E-4/5	172	----	5/76	5/77		
SALINA, KS	SLNAKSTA02T	1A/3	72	----	12/78	11/79	T,4W		
LITTLE ROCK, AR	LTRKARFR15T	4E/3	---	12.2	6/80	4/81	T		
WICHITA 2, KS	WCHTKSBR24T	4E/3	---	24.0	3/80	6/81	T		

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R =RTA	REMARKS
						SHIP	SERVICE		
SW	TOPEKA, KS	TPKAKSJA03T	1A/4	160	----	4/77	12/77	T,4W	Combine Exist. Syst.
	GARDEN CITY, KS	GRCYKS0701T	1A-4/5	127	----	3/80	11/80	T,4W	
	COLBY, KS	CLBYKS0501T	1A-4/5	60	----	5/80	12/80	T,4W	
	PARSONS, KS	PRSSKSWA01T	1A-3/5	200	----	8/78	5/79	T,4W	
MTN	HELENA, MT	HLNAMTMA01T	1E/3	120	----	11/76	11/77	4W	
	ALBUQUERQUE 2, NM	ALBQNMMA02T	4E/2	---	13.2	2/77	11/77	T	
	CASPER, WY	CSPRWYMA01T	1E-4/5	186	----	3/77	3/78	T,4W	
	BILLINGS, MT	BLNGMTMA02T	1E/2	150	----	3/77	5/78	4W	
	CEDAR CITY, UT	CDCYUTMA01T	1E-4/5	164	----	12/79	5/80		
	EL PASO 2, TX	ELPSTXMA02T	1A/4	305	----	3/79	3/80	T/R,4W	
	SANTA FE 2, NM	SNFENMMA01T	1A-4/5	300	----	4/78	2/79	T,4W	
	POCATELLO, ID	PCTLIDMA01T	1A-4/5	230	----	10/78	8/79	4W	
	MISSOULA, MT	MSSLMTMA01T	1E-3/5	170	----	2/79	2/80	4W	
	GRAND JUNCTION, CO		1A/4	242	----	2/80	4/81	T,4W	
	PHOENIX 3, AR	PHNXAZMA03T	4E/3	---	30.6	11/79	11/80	T	
	GREAT FALLS, MT	GRFLMTMA01T	1E/3	150	----	2/80	2/81	4W	
CHEYENNE 2, WY	CHYNWYMA02T	1E-3/5	78	----	8/79	3/80	T,4W		
GLENDIVE, MT		1E-3/5	249	----	3/81	3/82	4W		
COLORADO SPRINGS, CO	CLSPCONO02T	4E/4	---	15.0	12/79	4/81	T		
DENVER 5, CO	DNVRCOZU05T	4E/1	---	30.6	12/78	11/79	I,T		
PNB	KLAMATH FALLS, OR	KLFLOR5402T	1A-4/5	120	----	4/79	2/80		
	LEWISTON, ID - CLARKSTON, WA		1E-4/5	107	----	2/79	11/79		
	PORTLAND 3, OR	PTLDOR6203T	4E/3	---	10.6	4/78	4/79	T	
	SEATTLE 6, WA	STTLWA0604T	4E/3	---	16.4	3/79	5/80	T	
PAC	VENTURA	VNTRCA0258T	1E-4/5	124	----	7/76	7/77		
	SAN DIEGO 3	SNDGCA0787T	4E/3	---	30.3	3/77	4/78	T	
	SAN LUIS OBISPO 2	SNLOCA0106T	1A-3/5	193	----	8/78	12/78	4W	
	LOS ANGELES 4	LSANCA0470T	4E/2	---	43.7	6/78	10/79		
	ANAHEIM 3	ANHMCA0211T	4E/4	---	49.0	1/80	1/81	T	
	SACRAMENTO 4	SCRMCA0404T	4E/2	---	22.1	8/77	8/78	T	
	SALINAS 2	SLNSCA0114T	1A/3	112	----	4/79	3/80	4W	
	MODESTO 2	MDSTCA0243T	1A/3	258	----	7/79	11/79	4W	

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C = CAMA A = ANI T = TSPS T/R = RTA	REMARKS
						SHIP	SERVICE		
SNE	DANBURY	DNBRCT0003T	1E-4/5	28	----	12/76	1/78		
	MERIDEN	MRDNCT0003T	1E-4/5	9	----	12/76	12/77		
	TORRINGTON	TRTNCT0002T	1E-4/5	30	----	3/77	3/78		
	NEW BRITAIN	NWBRCT0002T	1A-4/5	35	----	6/77	6/78		
	NEW HAVEN	NWHNCT0301T	1A-4/5	50	----	9/77	9/78		
	NEW LONDON	NWLNCT0202T	1A-4/5	50	----	10/77	10/78		
	MIDDLETOWN	MDTWCT0002T	1A-4/5	30	----	12/77	12/78		
	STAMFORD	SMFRCT0102T	1A-4/5	80	----	7/78	7/79		
	HARTFORD	HRFRCT0301T	1A-4/5	60	----	1/79	12/79		
	BRIDGEPORT	BRPTCT0102T	1A-4/5	70	----	2/79	12/79		
	NORWALK	NRWLCT0202T	1A-4/5	60	----	6/79	6/80		
	WILLIMANTIC	WLMNCT0002T	1A-4/5	50	----	1/80	11/80		
	ANSONIA-DERBY	DRBYCT0002T	1A-4/5	40	----	1/80	1/81		
	WATERBURY	WTRBCT0003T	1A-4/5	50	----	2/80	2/81		
	NORWICH	NRWCCT0002T	1A-4/5	50	----	3/80	3/81		
CINN	CINCINNATI 2	CNCNOHWS14T	4E/2	---	27.0	5/78	6/79	T	
Non- Bell	##								
	ASHLAND, KY	ASLDKYXA02T	1EAX/4				8/77		
	CARBONDALE, IL	CRDLILXE50T	1EAX/4				8/77		
	MATTOON, IL	MTONILXC50T	1EAX/4				5/77		
	OCALA, FL	OCALFLXA02T	NTS/4				1/77		
	SANTA MONICA, CA	SNMNCAXP41T	ETS4/4				6/77		
	WINTER HAVEN, FL	WNHNFLXC02T	4ESS/4				10/77		
	FORT MYERS, FL	FTMYFLXA03T	ETS4/4				9/78		
	ONTARIO, CA	ONTRCAXP91T	ETS4/3				11/78		
	LIMA, OH	LIMAOHXA51T	ETS4/4				11/78		
	RICE LAKE, WI	RCLKWIXB71T	3EAX/4				2/78		
	RICHMOND, IN	RCMDINXA02T	3EAX/4				9/78		
	YORK, PA	YORKPAXP49T	ETS4/4				4/78		
	LINCOLN, NE	LNCLNEXL12T	3EAX/3				12/78		
	BEAVERTON, OR	BVTNORXB02T	3EAX/4				4/79		
	BLUEFIELD, WV	BLFDWVXA12T	3EAX/4				6/79		
	EVERETT, WA	EVRTWAXA02T	3EAX/4				3/79		
	HONOLULU 4, HI	HNLLHIMN04T	4ESS/3				2/79		
	MARION, IL	MARNILXE50T	3EAX/3				3/79		

40

Chart 11

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

BASED ON LL SWITCHING SYSTEM FORECAST (M953-JULY 1977 VIEW) & TCTS INPUTS

NEW TOLL OFFICES PLANNED FOR SERVICE 1977-1982**

CO.	LOCATION	CLLI	TYPE/ CLASS	FRMS	TERMS (000) 4 ESS	DATES		C =CAMA A =ANI T =TSPS T/R =RTA	REMARKS
						SHIP	SERVICE		
<u>Non-Bell</u>	##								
	WAUSAU, WI	WAUSWIXA31T	3EAX/				11/79		
	BOSCO BEL, WI	BOSCWIXA31T	3EAX/				/79		
	MUSKEGON, MI	MSKGMIXK12T	ETS4/4				10/79		
	N. JOHNSON CITY, TN	JHCYTNXC41T	ETS4/4				3/79		
	PORTAGE, IN	PRTGINXH02T	3EAX/				3/79		
	FT. WAYNE, IN	FTWYINXA02T	3EAX/4				1/80		
	LAFAYETTE, IN	LAFYIN-----	3EAX/				12/80		
	SOUTH HAVEN, MI	SOHNMIXH09T	3EAX/4				6/80		
	TERRE HAUTE, IN	TRRHINXA01T	3EAX/4				1/80		
	THREE RIVERS, MI	THRRMIXG09T	3EAX/4				10/80		
	COEUR D'ALENE, ID		3EAX/4				/80		
	MOREHEAD, KY	MRHDKYXA02T	1EAX/4				11/81		
	NORWALK, OH	NRWLOHXA50T	3EAX/				/81		
	OXNARD, CA	OXNRCAXP42T	3EAX/3				/81		
	TAMPA 4, FL	TAMPFLXA04T	3EAX/3				/81		
	ELIZABETHTOWN, KY	EZTWKYXA---	3EAX/4				/82		
WARREN, OH	WRRNOHXA51T	ETS4/				/82			
CLEARWATER, FL	CLWRFL-----	3EAX/4				/82			
<u>CANADA</u>	# #								
TCTS	HAMILTON 2, ONT	HMTNON1402T	SP1/3				6/77	C,A	
	KITCHENER 2, ONT	KTNRON0602T	DMS/3				7/79	C,A	
	LONDON 2, ONT	LONDON1402T	SP1/3				3/77	C,A	
	OTTAWA 3, ONT	OTWAON2303T	DMS/4				2/79	C,A	
	TORONTO 4, ONT	TOROON0104T	SP1/4				2/77	C,A	
	TORONTO 5, ONT	TOROON6305T	SP1/4				2/78	C	
	TORONTO 6, ONT	TOROON6306T	SP1/4				2/78	C	
	TORONTO 7, ONT	TOROON0107T	DMS/4				3/80	C,A	
	QUEBEC 2, QUE	QUBCPQ1402T	SP1/2				3/77	C,A	
	MONTREAL 4, QUE	MTRLPQ5804T	SP1/4				11/77		
	MONTREAL 5, QUE	MTRLPQ5805T	DMS/2				1980		
	WINNIPEG 2	WNPGB-----	DMS/2				1981		
	SHERBROOKE, QUE	SHBKPQ-----	DMS/3				1980		

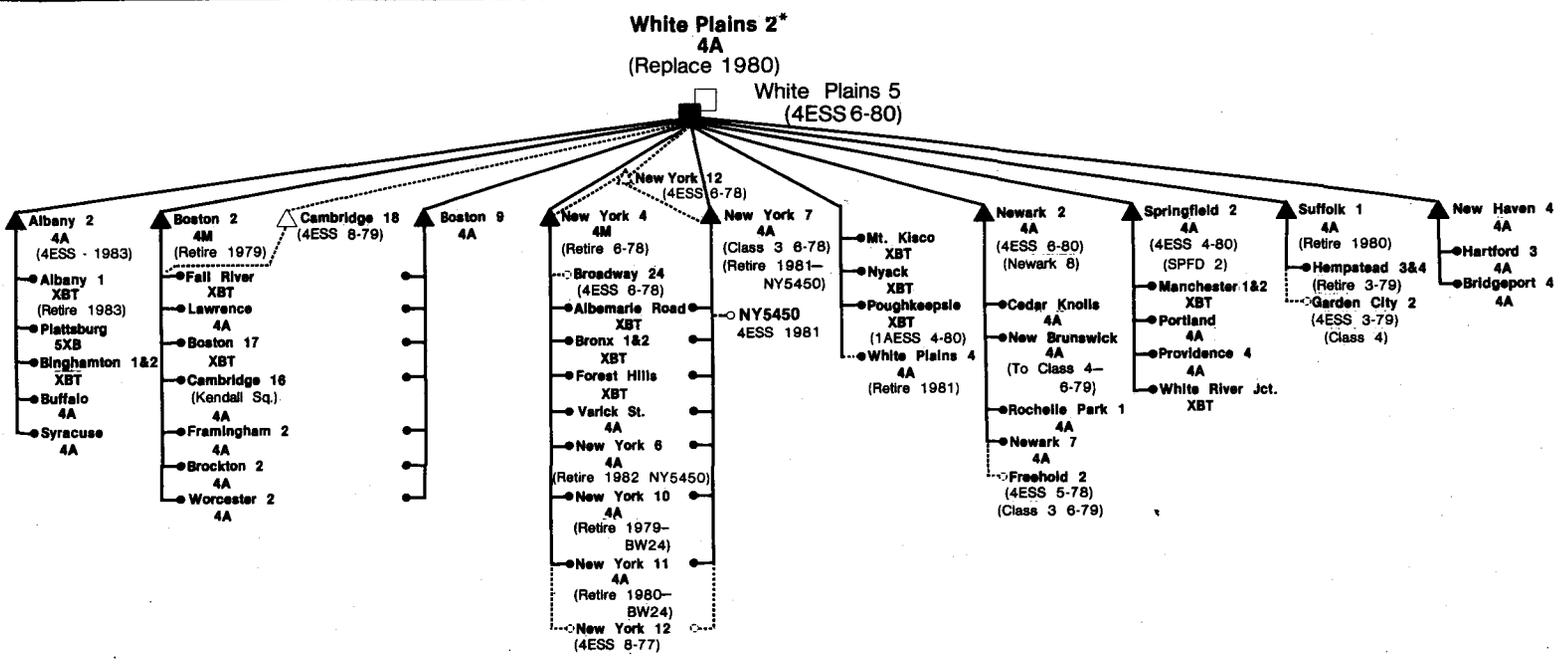
41

Chart 11

** BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW

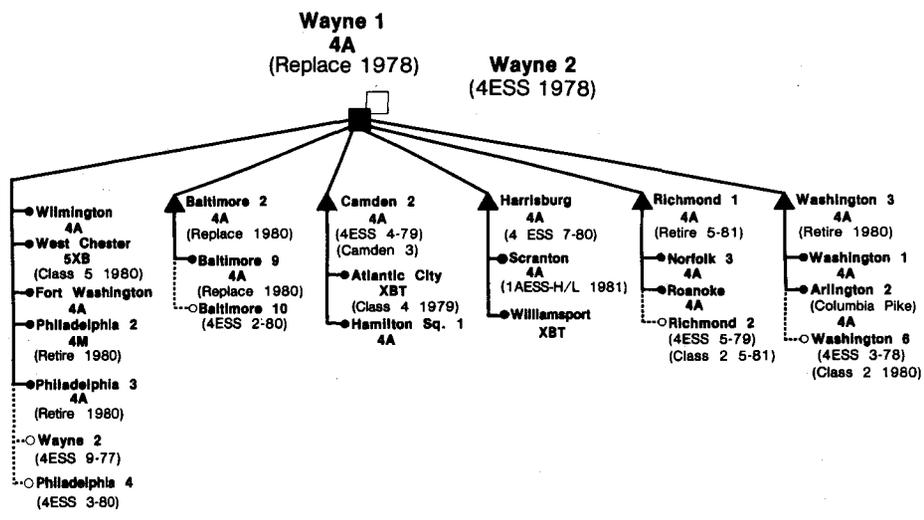
BASED ON LL SWITCHING SYSTEM FORECAST (M953-JULY 1977 VIEW) & TCTS INPUTS

CONTROL SWITCHING POINTS AND THEIR HOMING ARRANGEMENTS
 (Present & Future Arrangements Through 1982)
 (Based on April 1977 Construction Budget View)



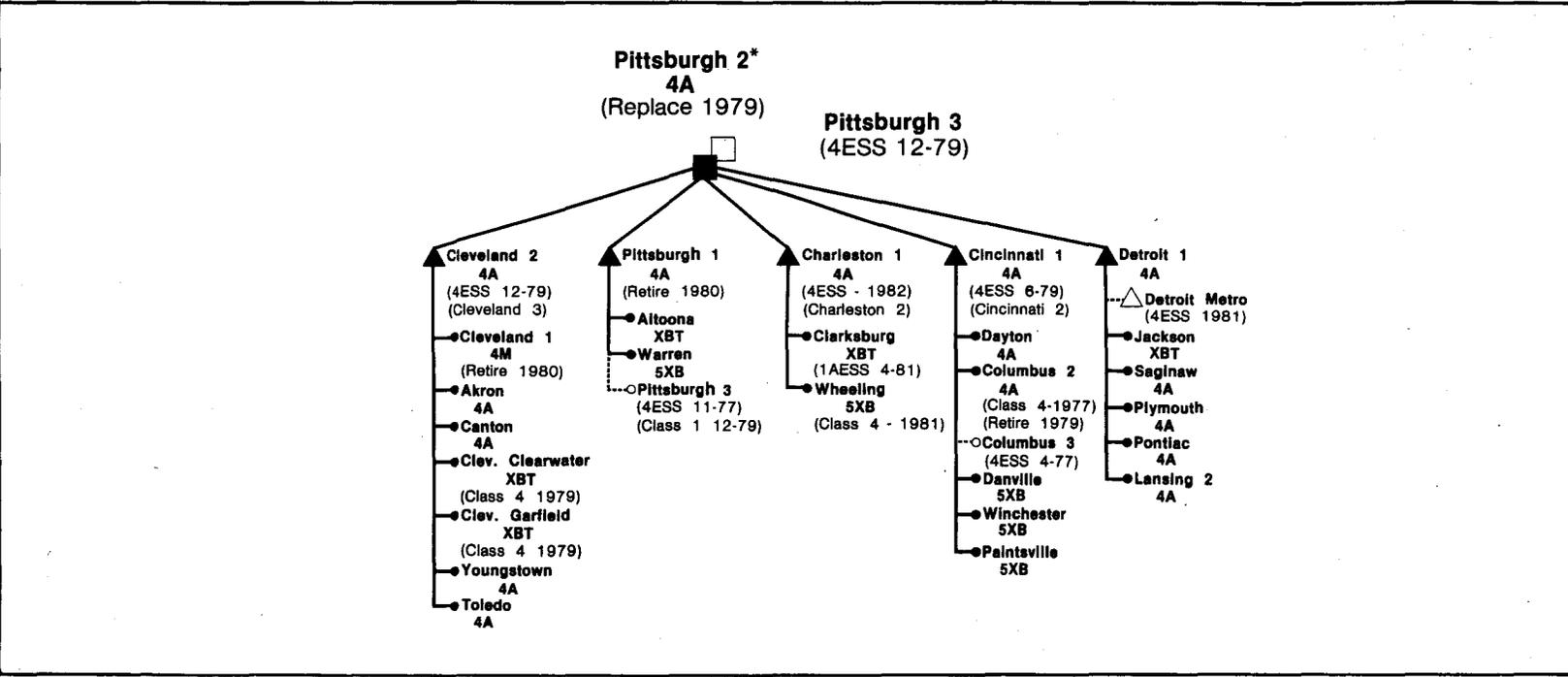
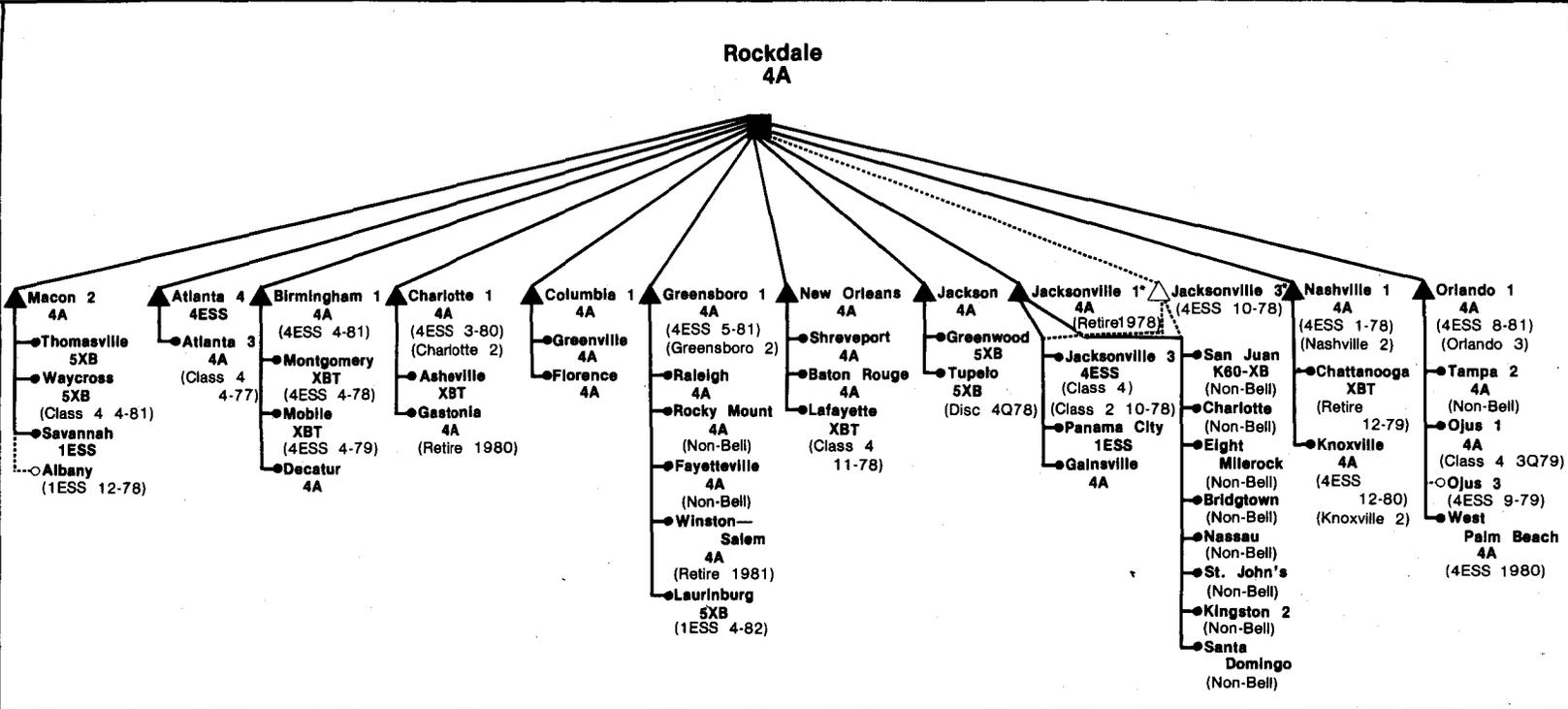
SOME OF THE LOCATIONS HAVE NOT MET ALL OF THE REQUIREMENTS FOR CSPTS OF THE CLASSES SHOWN FOR DISTANCE DIALING. THEREFORE, THE ROUTING, SWITCHING, TRANSMISSION ARRANGEMENTS AND ADEQUACY OF INTERCEPTING FACILITIES SHOULD BE INVESTIGATED BEFORE DISTANCE DIALING IS AUTHORIZED TO GO THROUGH ANY SYSTEM.

EXISTING REGIONAL CENTER (CLASS 1)
 FUTURE REGIONAL CENTER (CLASS 1)
 EXISTING SECTIONAL " (" " 2)
 FUTURE SECTIONAL " (" " 2)
 EXISTING PRIMARY " (" " 3)
 FUTURE PRIMARY " (" " 3)
 * INTERNATIONAL SWITCHING CENTER



IN SERVICE 12/31/78
 PLANNED BY END OF 1982
 FINAL GROUP

CONTROL SWITCHING POINTS AND THEIR HOMING ARRANGEMENTS
 (Present & Future Arrangements Through 1982)
 (Based on April 1977 Construction Budget View)

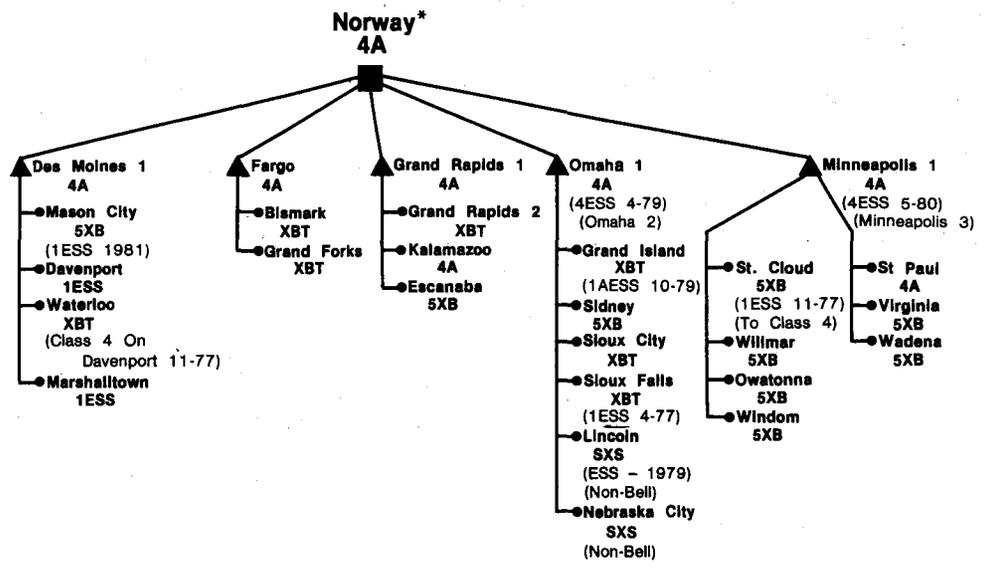
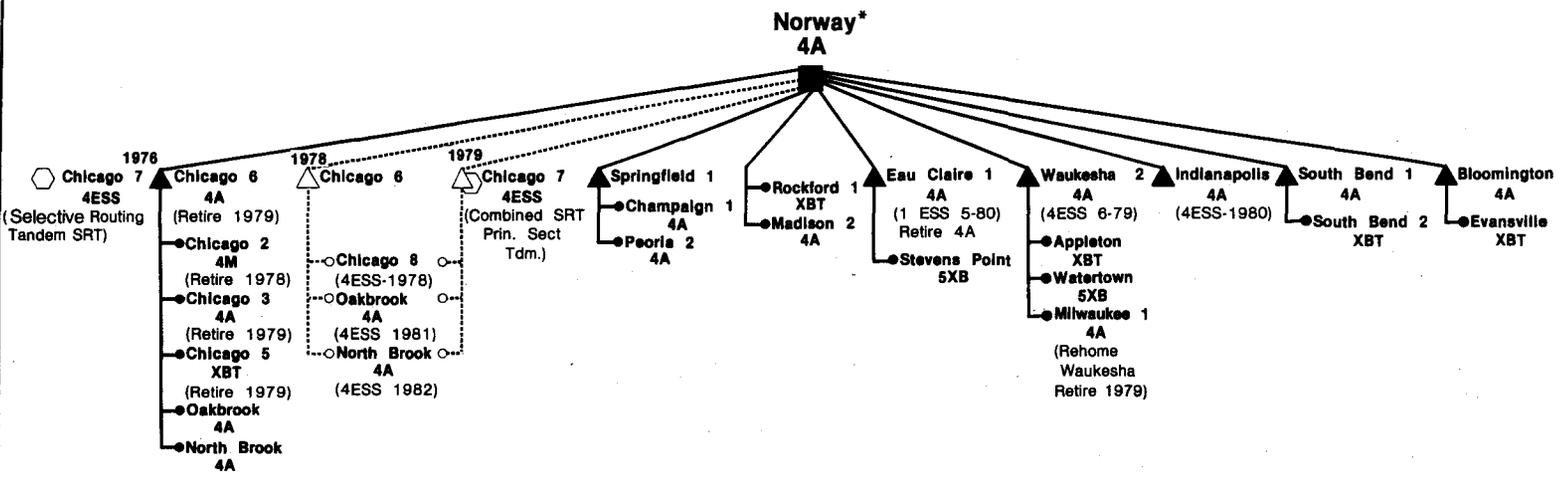


SOME OF THE LOCATIONS HAVE NOT MET ALL OF THE REQUIREMENTS FOR CSP'S OF THE CLASSES SHOWN FOR DISTANCE DIALING. THEREFORE, THE ROUTING, SWITCHING, TRANSMISSION ARRANGEMENTS AND ADEQUACY OF INTERCEPTING FACILITIES SHOULD BE INVESTIGATED BEFORE DISTANCE DIALING IS AUTHORIZED TO GO THROUGH ANY SYSTEM.

EXISTING
 REGIONAL CENTER (CLASS 1)
 SECTIONAL " (" " 2)
 PRIMARY " (" " 3)
 FUTURE
 IN SERVICE 12-31-78
 PLANNED DATE IS SHOWN IN ()
 * INTERNATIONAL SWITCHING CENTER

FINAL GROUP

CONTROL SWITCHING POINTS AND THEIR HOMING ARRANGEMENTS
 (Present & Future Arrangements Through 1982)
 (Based on April 1977 Construction Budget View)



SOME OF THE LOCATIONS HAVE NOT MET ALL OF THE REQUIREMENTS FOR CSP'S OF THE CLASSES SHOWN FOR DISTANCE DIALING. THEREFORE, THE ROUTING, SWITCHING, TRANSMISSION ARRANGEMENTS AND ADEQUACY OF INTERCEPTING FACILITIES SHOULD BE INVESTIGATED BEFORE DISTANCE DIALING IS AUTHORIZED TO GO THROUGH ANY SYSTEM.

EXISTING REGIONAL CENTER (CLASS 1) SECTIONAL " (" 2) PRIMARY " (" 3) INTERNATIONAL SWITCHING CENTER

CSP FUTURE

PLANNED DATE IS SHOWN IN ()

* INTERNATIONAL SWITCHING CENTER

IN SERVICE 12-31-76

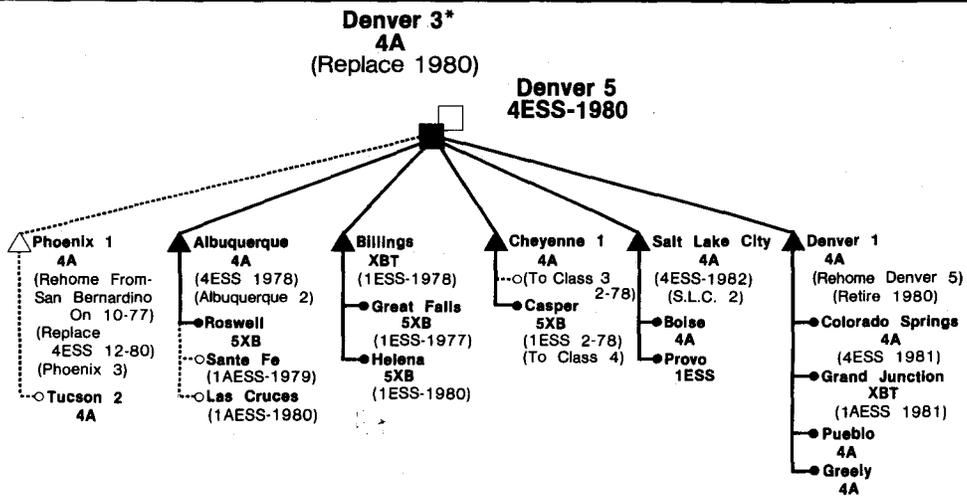
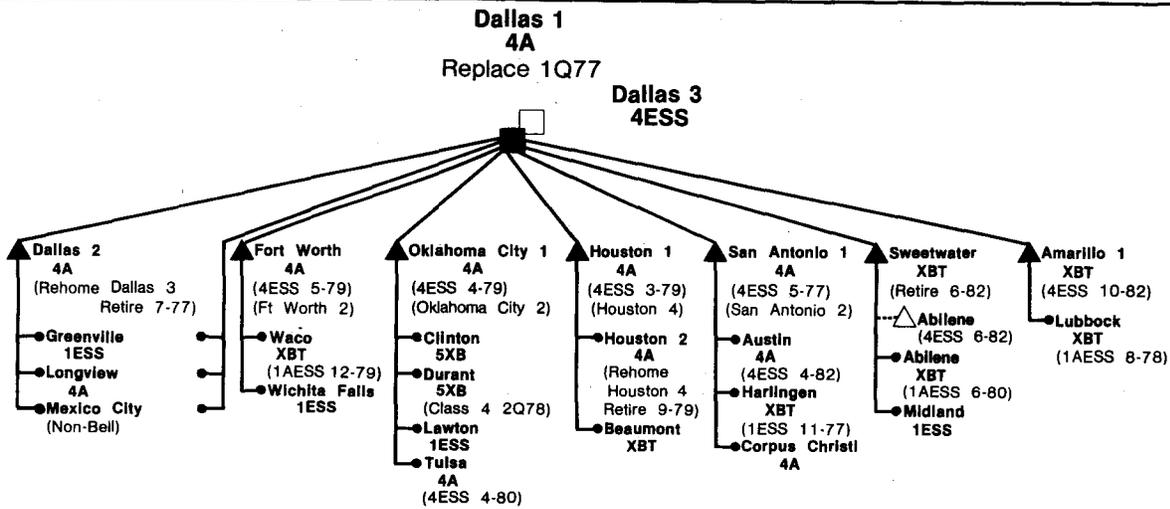
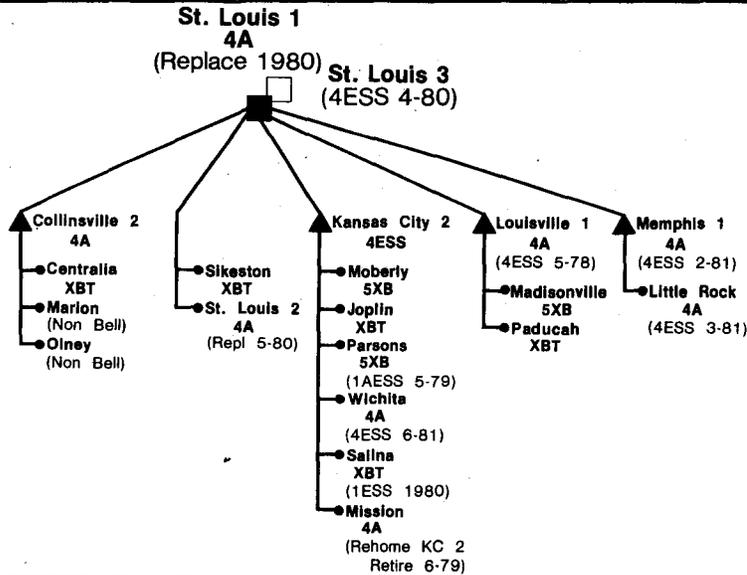
PLANNED BY END OF 1982

FINAL GROUP

CONTROL SWITCHING POINTS AND THEIR HOMING ARRANGEMENTS

(Present & Future Arrangements Through 1982)

(Based on April 1977 Construction Budget View)



SOME OF THE LOCATIONS HAVE NOT MET ALL OF THE REQUIREMENTS FOR CSP'S OF THE CLASSES SHOWN FOR DISTANCE DIALING. THEREFORE, THE ROUTING, SWITCHING, TRANSMISSION ARRANGEMENTS AND ADEQUACY OF INTERCEPTING FACILITIES SHOULD BE INVESTIGATED BEFORE DISTANCE DIALING IS AUTHORIZED TO GO THROUGH ANY SYSTEM.

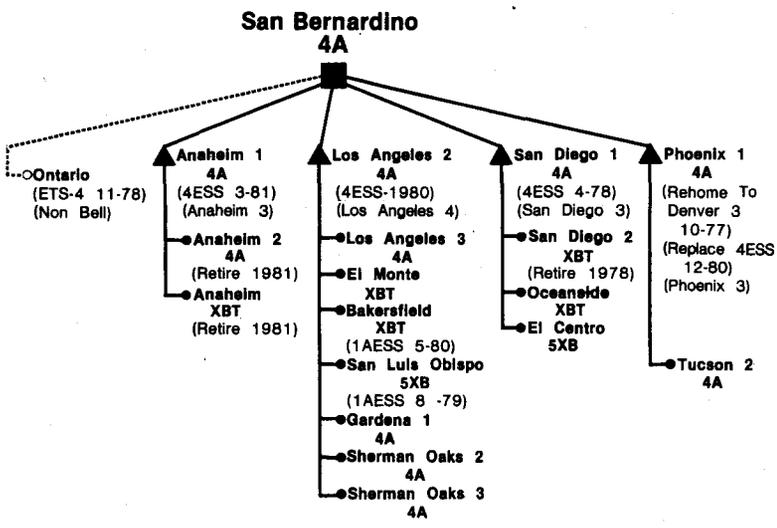
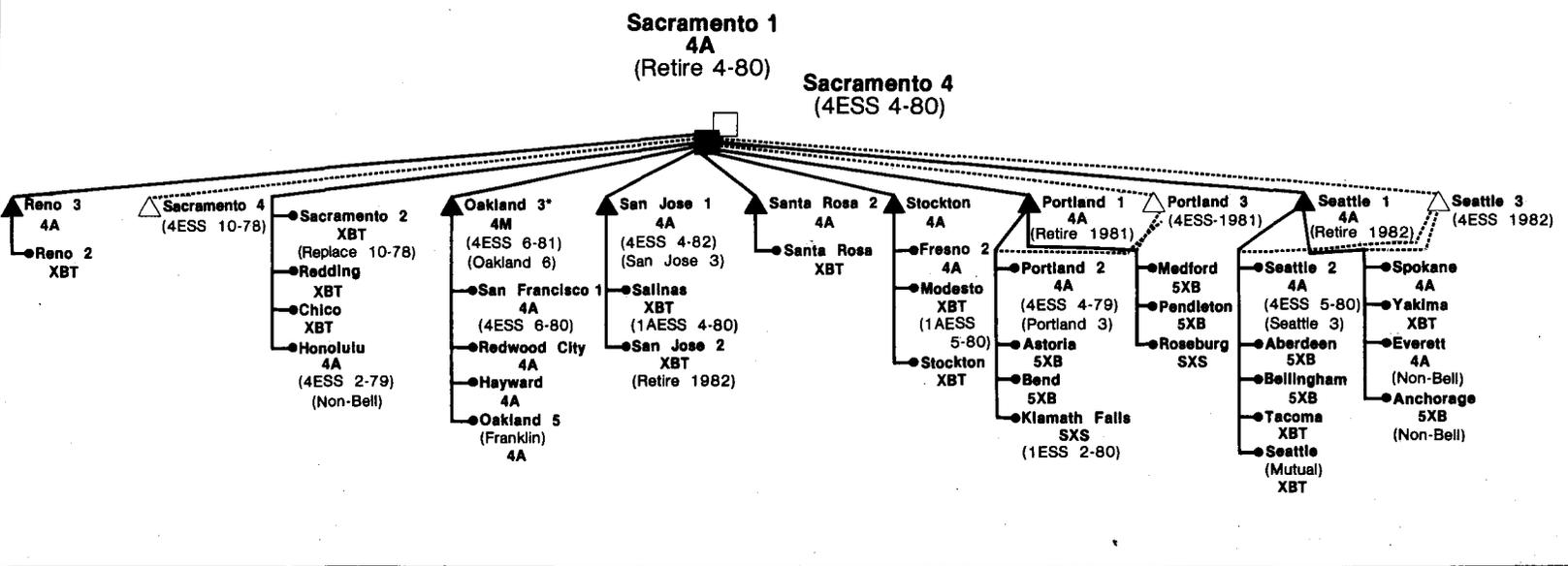
EXISTING	CSP	FUTURE
■ REGIONAL CENTER (CLASS 1)	□	□
▲ SECTIONAL " (" 2)	△	△
● PRIMARY " (" 3)	○	○

PLANNED DATE IS SHOWN IN ()
* INTERNATIONAL SWITCHING CENTER

IN SERVICE 12-31-76	_____
PLANNED BY END OF 1982	- - - - -

FINAL GROUP

CONTROL SWITCHING POINTS AND THEIR HOMING ARRANGEMENTS
(Present & Future Arrangements Through 1982)
(Based on April 1977 Construction Budget View)

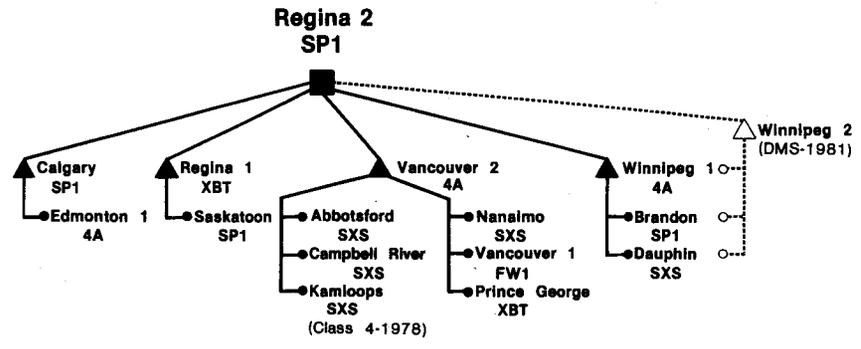
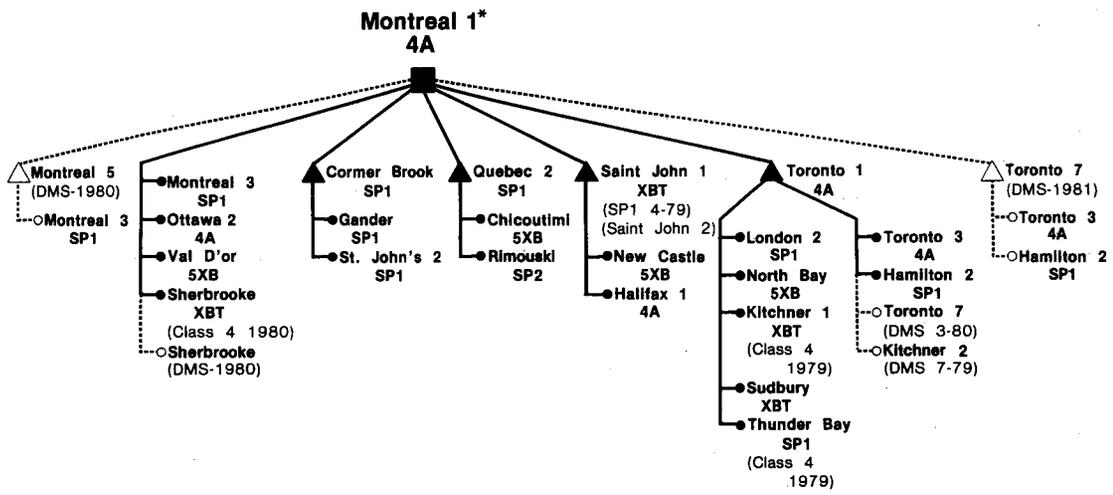


SOME OF THE LOCATIONS HAVE NOT MET ALL OF THE REQUIREMENTS FOR CSP'S OF THE CLASSES SHOWN FOR DISTANCE DIALING. THEREFORE, THE ROUTING, SWITCHING, TRANSMISSION ARRANGEMENTS AND ADEQUACY OF INTERCEPTING FACILITIES SHOULD BE INVESTIGATED BEFORE DISTANCE DIALING IS AUTHORIZED TO GO THROUGH ANY SYSTEM.

EXISTING
REGIONAL CENTER (CLASS 1)
SECTIONAL " (" " 2)
PRIMARY " (" " 3)
PLANNED DATE IS SHOWN IN ()
* INTERNATIONAL SWITCHING CENTER

IN SERVICE 12-31-78
PLANNED BY END OF 1982
FINAL GROUP

CONTROL SWITCHING POINTS AND THEIR HOMING ARRANGEMENTS
 (Present & Future Arrangements Through 1982)
 (Based on April 1977 Construction Budget View)



SOME OF THE LOCATIONS HAVE NOT MET ALL OF THE REQUIREMENTS FOR CSP'S OF THE CLASSES SHOWN FOR DISTANCE DIALING. THEREFORE, THE ROUTING, SWITCHING, TRANSMISSION ARRANGEMENTS AND ADEQUACY OF INTERCEPTING FACILITIES SHOULD BE INVESTIGATED BEFORE DISTANCE DIALING IS AUTHORIZED TO GO THROUGH ANY SYSTEM.

EXISTING CSP FUTURE
 REGIONAL CENTER (CLASS 1) □
 SECTIONAL " (" 2) △
 PRIMARY " (" 3) ○
 PLANNED DATE IS SHOWN IN ()
 * INTERNATIONAL SWITCHING CENTER

IN SERVICE 12.31.76
 PLANNED BY END OF 1982
 FINAL GROUP

47

Chart 13

COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)
 IMPLEMENTATION SCHEDULE 1976-1980 ∅
 SIGNAL TRANSFER POINTS (STP) AND SERVING OFFICES (SO)

REGION	LOCATION	TYPE/ CLASS	SERVICE DATE	REMARKS
White Plains	Boston 9, MA	4A/2	12/76	STP only
	White Plains 2, NY	4A/1	12/76	STP only
	Hartford 3, CT	4A	4/77	
	New Haven 4, CT	4A	4/77	
	Providence 4, RI	4A	4/77	
	New York 12, NY	4ESS	8/77	
	Buffalo 1, NY	4A	12/77	
	Cedar Knolls 1, NJ	4A	4/78	
	New York BW24, NY	4ESS	4/78	
	Freehold 2, NJ	4ESS	5/78	
	Bridgeport 4, CT	4A	7/78	
	Brockton 2, MA	4A	11/78	
	Garden City 2E, NY	4ESS	3/79	
	Worcester 2, MA	4A	4/79	
	Framingham, MA	4A	4/79	
	Syracuse, NY	4A	6/79	
	Portland 2, ME	4A	6/79	
	Cambridge 18, MA	4ESS	8/79	
	Lawrence 2, MA	4A	/80	
	Springfield 2, MA	4ESS	4/80	
White Plains 5, NY	4ESS	6/80		
Newark 8, NJ	4ESS	6/80		
Wayne	Wayne 1, PA	4A/1	5/77	STP only
	Richmond 1, VA	4A/2	4/77	STP only
	Arlington 2, VA	4A	8/77	
	Washington 3, DC	4A	8/77	
	Ft. Washington 1, PA	4A	9/77	
	Wayne 2, PA	4ESS	9/77	
	Pittsburgh 3, PA	4ESS	11/77	
	Washington 6, DC	4ESS	3/78	
	Wilmington 2, DE	4A	6/78	
	Roanoke 2, VA	4A	12/78	
	Camden 3, NJ	4ESS	4/79	
	Richmond 2, VA	4ESS	4/79	
	Philadelphia 4, PA	4ESS	3/80	
	Baltimore 10, MD	4ESS	5/80	
	Harrisburg, PA	4ESS	5/80	

Chart 13

COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)
IMPLEMENTATION SCHEDULE 1976-1980 Ø
SIGNAL TRANSFER POINTS (STP) AND SERVING OFFICES (SO)

REGION	LOCATION	TYPE/ CLASS	SERVICE DATE	REMARKS
Pittsburgh	Detroit 1, MI	4A/2	10/76	STP only
	Columbus 2, OH	4A/3	10/76	STP only
	Toledo 1, OH	4A	4/77	
	Columbus 3, OH	4E	4/77	
	Plymouth 1, MI	4A	6/77	
	Pittsburgh 3, PA	4E	11/77	
	Dayton, OH	4A	6/78	
	Pontiac 2, MI	4A	9/78	
	Akron 2, OH	4A	4/79	
	Lansing 2, MI	4A	5/79	
	Cincinnati 2, OH	4ESS	6/79	
	Cleveland 3, OH	4ESS	12/79	
	Saginaw 2, MI	4A	/80	
	Youngstown 2, OH	4A	/80	
Rockdale	Atlanta 1, GA	4A/2(*)	8/76	STP only
	Birmingham 1, AL	4A/2	8/76	STP only
	Jacksonville 3, FL	4ESS	12/76	
	Atlanta 4, GA	4ESS	1/77	
	Jackson 2, MS	4A	4/77	
	New Orleans 1, LA	4A	4/77	
	Winter Haven, FL (NB)	4ESS	10/77	
	Shreveport 1, LA	4A	12/77	
	Nashville 2, TN	4ESS	1/78	
	Macon 2, GA	4A	3/78	
	Montgomery, AL	4ESS	4/78	
	Ojus 3, FL	4ESS	5/78	
	Greensboro 1, NC	4A	5/78	
	Lafayette, LA	1ESS	7/78	INIT. INSTALLATION
	Pensacola, FL	4A	9/78	
	Baton Rouge 1, LA	4A	12/78	
	Raleigh, NC	4A	12/78	
	Columbia 1, SC	4A	4/79	
	Mobile, AL	4ESS	5/79	
	Chattanooga, TN	4ESS	12/79	
	Gainsville 2, FL	4A	2/80	
	Charlotte 2, NC	4ESS	3/80	
	West Palm Beach 4, FL	4ESS	6/80	
New Orleans 1, LA	4ESS	7/80		
Knoxville 1, TN	4ESS	12/80		
<p>* Sw. Sys. Retired Stand Alone ETS BSP 212-827-303</p> <p>(NB) - indicates Non-Bell</p>				

Chart 13

COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)
IMPLEMENTATION SCHEDULE 1976-1980 Ø
SIGNAL TRANSFER POINTS (STP) AND SERVING OFFICES (SO)

REGION	LOCATION	TYPE/ CLASS	SERVICE DATE	REMARKS
Norway	Indianapolis 1, IN	4A/2	5/76	STP only
	Omaha 1, NB	4A/2	5/76	STP only
	Chicago 7, IL	4ESS	1/76	
	Madison 2, WI	4A	5/76	
	Waukesha 2, WI	4A	5/76	
	Norway, IL	4A	4/77	
	Northbrook 2, IL	4A	7/77	
	Oak Brook, IL	4A	7/77	
	Grand Rapids 1, MI	4A	8/77	
	Springfield 1, IL	4A	11/77	
	South Bend 1, IN	4A	6/78	
	Chicago 8, IL	4ESS	7/78	
	Champaign 1, IL	4A	11/78	
	Peoria 2, IL	4A	11/78	
	Rockford, IL	1ESS	11/78	
	Davenport, IA	1ESS	11/78	INIT. 1ESS RETROFIT
	Fargo 1, ND	4A	12/78	
	Waukesha 3, WI	4ESS	3/79	
	Des Moines, IA	4A	4/79	
	Omaha 1, NB	4ESS	4/79	
	Eau Claire 1, WI	1ESS	5/79	
	Kalamazoo 2, MI	4A	5/79	
	Bloomington 1, IN	4A	11/79	
	Indianapolis 2, IN	4ESS	/80	
	Minneapolis 3, MN	4ESS	5/80	
	Ft. Wayne, IN (NB)	3EAX	6/80	
St. Louis	St. Louis 1, MO	4A/1	11/77	STP only
	Kansas City 1, MO	4A/2(*)	11/77	STP only
	Kansas City 2, MO	4ESS	7/76	
	Collinsville 2, IL	4A	4/78	
	St. Louis 3, MO	4ESS	4/80	
	Louisville 2, KY	4ESS	5/80	
Dallas	Dallas 1, TX	4A/1	3/76	STP only
	Oklahoma City 1, OK	4A/2	3/76	STP only
	Dallas 3, TX	4ESS	12/76	
	San Antonio 2, TX	4ESS	5/77	
	Austin 1, TX	4A	3/79	
	Corpus Christi 1, TX	4A	3/79	
	Houston 4, TX	4ESS	3/79	
	Oklahoma City 2, OK	4ESS	5/79	
	Ft. Worth 2, TX	4ESS	5/79	
	Longview, TX	4A	/80	
		* Sw. Sys. Retired Stand Alone ETS BSP 212-827-303		
	(NB) - indicates Non-Bell			

Chart 13

COMMON CHANNEL INTEROFFICE SIGNALING (CCIS)
IMPLEMENTATION SCHEDULE 1976-1980 Ø
SIGNAL TRANSFER POINTS (STP) AND SERVING OFFICES (SO)

REGION	LOCATION	TYPE/ CLASS	SERVICE DATE	REMARKS
Denver	Denver 3, CO	4A/1	10/77	STP only
	Albuquerque 1, NM	4A/2	10/77	STP only
	Albuquerque 2, NM	4ESS	11/77	
	Tucson 2, AZ	4A	5/78	
	Boise 2, ID	4A	6/78	
	Salt Lake City 1, UT	4A	8/78	
	Casper 2, WY	1ESS	9/78	INIT. H/L RETROFIT
	Sante Fe 2, NM	1ESS	4/79	
	Pocatello 2, ID	1ESS	5/79	
	Provo, UT	1ESS	8/79	
	Denver 5, CO	4ESS	11/79	
	Cheyenne 2, WY	1ESS	3/80	
	Phoenix 3, AZ	4ESS	11/80	
	Sacramento	Sacramento 1, CA	4A/1	12/76
Oakland 3, CA		4M/2	12/76	STP only
San Francisco 2, CA		4A	3/77	
Oakland 5, CA		4A	4/77	
Seattle 2, WA		4A	6/77	
Redwood City, CA		4A	7/77	
San Francisco 1, CA		4A	9/77	
Seattle 1, WA		4A	8/78	
Sacramento 4, CA		4ESS	10/78	
Honolulu 4, HI (NB)		4ESS	2/79	
Hayward, CA		4A	3/79	
Fresno 2, CA		4A	3/79	
Reno 3, NV		4A	4/79	
Portland 3, OR		4ESS	5/79	
Stockton 2, CA		4A	5/79	
Santa Rosa 2, CA		4A	6/79	
San Francisco 3, CA		4ESS	/80	
Seattle 3, WA		4ESS	5/80	
San Bernardino	Los Angeles 2, CA	4A/2	12/76	STP only
	Anaheim 1, CA	4A/2	12/76	STP only
	Anaheim 2, CA	4A	2/77	
	Gardena 2, CA	4A	2/77	
	Sherman Oaks 3, CA	4A	5/77	
	San Bernardino, CA	4A	8/77	
	Gardena 1, CA	4A	11/77	
	Los Angeles 3, CA	4A	1/78	
	Sherman Oaks 2, CA	4A	1/78	
	San Diego 3, CA	4ESS	4/78	
	Los Angeles 4, CA	4ESS	10/79	
(NB) - indicates Non-Bell				

Ø Source - July 1977 Schedule of Cutovers & Conversions (SOCC)

Chart 14

NUMBERING PLAN AREA PRINCIPAL CITIES END OF 1976

AREA CODE	LOCATION	PRINCIPAL CITY MACHINE	AREA CODE	LOCATION	PRINCIPAL CITY MACHINE
201	New Jersey	Newark 2	601	Mississippi	*Jackson
202	Dist. of Col.	Washington 3	602	Arizona	Phoenix 1
203	Connecticut	New Haven 4	603	New Hampshire	Manchester
204	Manitoba	Winnipeg	604	British Columbia	Vanconver 2
205	Alabama	Birmingham	605	South Dakota	Sioux Falls
206	Washington	Seattle 1	606	Kentucky	*Cincinnati
207	Maine	Portland 2	607	New York	Binghamton
208	Idaho	Boise	608	Wisconsin	Madison 1
209	California	Stockton 2	609	New Jersey	Camden 2
212	New York	New York 4 & 7	612	Minnesota	*Minneapolis
213	California	*Los Angeles 2	613	Ontario	Ottawa 2
214	Texas	Dallas 1	614	Ohio	Columbus
215	Pennsylvania	Wayne	615	Tennessee	Nashville
216	Ohio	Cleveland 2	616	Michigan	*Grand Rapids 1
217	Illinois	Springfield 1	617	Massachusetts	Boston 2 & 9
218	Minnesota	*Minneapolis	618	Illinois	Collinsville
219	Indiana	South Bend 1	701	North Dakota	Fargo
301	Maryland	Baltimore 2	702	Nevada	Reno 3
302	Delaware	Wilmington	703	Virginia	*Richmond
303	Colorado	Denver 1	704	North Carolina	Charlotte
304	West Virginia	Charleston	705	Ontario	*Toronto 1
305	Florida	*Orlando	707	California	Santa Rosa
306	Saskatchewan	Regina	709	Newfoundland	*Montreal 1, Quebec
307	Wyoming	Cheyenne	712	Iowa	*Omaha, Nebraska
308	Nebraska	*Omaha	713	Texas	Houston 1
309	Illinois	Peoria 2	714	California	*San Bernardino
312	Illinois	Chicago 6	715	Wisconsin	Eau Claire 1
313	Michigan	*Detroit 1	716	New York	Buffalo
314	Missouri	St. Louis 1	717	Pennsylvania	Harrisburg
315	New York	Syracuse	801	Utah	*Salt Lake City
316	Kansas	Wichita	802	Vermont	White River Jct.
317	Indiana	Indianapolis	803	South Carolina	Columbia
318	Louisiana	*Jackson, Mississippi	804	Virginia	*Richmond
319	Iowa	*Des Moines	805	California	*Los Angeles 2
401	Rhode Island	Providence 4	806	Texas	Amarillo 1
402	Nebraska	*Omaha	807	Ontario	Thunder Bay
403	Alberta	Calgary	808	Hawaii	Honolulu
404	Georgia	Atlanta 1	809	Virgin Island	*Jacksonville, Florida
405	Oklahoma	Oklahoma City		Puerto Rico	
406	Montana	Billings	812	Indiana	Bloomington
408	California	San Jose 1	813	Florida	*Orlando
412	Pennsylvania	*Pittsburgh 1	814	Pennsylvania	*Pittsburgh 1
413	Massachusetts	Springfield 2	815	Illinois	Norway
414	Wisconsin	Waukesha 2	816	Missouri	Kansas City
415	California	Oakland 3	817	Texas	Fort Worth
416	Ontario	*Toronto 1	819	Quebec	*Montreal 1
417	Missouri	Joplin	901	Tennessee	Memphis
418	Quebec	Quebec	902	Nova Scotia and Prince Edward Island	Halifax 1
419	Ohio	Toledo		Mexico	
501	Arkansas	Little Rock	903	Florida	*San Bernardino, Calif.
502	Kentucky	Louisville	904	Florida	*Jacksonville
503	Oregon	Portland 1	905	Mexico	Mexico City
504	Louisiana	New Orleans 1	906	Michigan	*Grand Rapids 1
505	New Mexico	Albuquerque	907	Alaska	*Seattle 1, Washington
506	New Brunswick	St. John	912	Georgia	Macon
507	Minnesota	*Minneapolis	913	Kansas	Mission, Kansas
509	Washington	Spokane	914	New York	White Plains 2
512	Texas	San Antonio 1	915	Texas	Sweetwater
513	Ohio	*Cincinnati	916	California	Sacramento 1
514	Quebec	*Montreal 1	918	Oklahoma	Tulsa
515	Iowa	*Des Moines	919	North Carolina	Greensboro
516	New York	Suffolk			
517	Michigan	*Detroit 1			
518	New York	Albany 2			
519	Ontario	*Toronto 1			

*Principal City for more than one NPA.

Chart 15

TRAFFIC SERVICE POSITIONS SYSTEM NO. 1 IN SERVICE-END OF 1976

CO.	LOCATION	CLLI	SERVICE DATE	CO.	LOCATION	CLLI	SERVICE DATE	
NE	Framingham, MA	FRMMAUN1EB	6/70	MICH	Plymouth	PLMOMIFA1UD	6/71	
	Boston (Franklin St.)	BSTNMAFRIEB	4/72		Pontiac	PNTCMIMN1UD	3/75	
	Lawrence, MA	LWRNMACA1EB	9/75		Detroit	DTRTMIBHIUD	3/76	
	Brockton, MA	BRTNMACO1EB	4/76	IND	Bloomington	BLTNINO11EB	8/70	
	Providence, RI	PRVDRIGR1UD	9/76		South Bend	SBNDIN991EB	12/73	
NY	Albany (State)	ALBYNYSS1UD	1/71	Indianapolis	IPLSINO11EB	11/76		
	Dix Hills (Suffolk 1)	HNTNNYSU01T	5/71	WISC	Waukesha	WKSHWIO21UD	11/73	
	Varick St. (NYC1)	NYCMNYVS1UD	11/72		Madison	MDSNWIO21UD	5/76	
	811 Tenth Ave. (NYC2)	NYCMNY5405T	10/73		ILL	Chicago (Canal)	CHCGILCL1UD	10/71
	White Plains 4	WHPLNYWPO3T	1/74			Chicago (Wabash)	CHCGILWB2UD	12/73
Syracuse	SYRCNYSU04T	8/75	Oak Brook			OKBRILOA3UD	10/74	
NJ	Morristown	MRTWNJCE1UD	1/69	Northbrook	NBRKILNT4UD	10/75		
	Rochelle Park 1	RCPKNJRO2UD	6/70	NW	Minneapolis, MN	MPLSMNDT1UD	3/72	
	New Brunswick	NBNKNJNB1UD	6/71		Sioux Falls, SD	SXFLSDCO1EB	11/71	
	Camden	CMDNNJCE1UD	4/72		St. Paul, MN	STPLMNMK1UD	6/72	
	Newark	NWRKNJO21UD	10/74		Omaha, NB	OMAAENW5UD	3/75	
Hamilton Sq.	HMSQNJHS01T	4/75	SW		Houston 1 (Jefferson) TX	HSTNTX011UD	3/70	
PA	Philadelphia	PHLAPAMK1UD		10/70	Dallas 1, TX	DLSTXTL1UD	4/70	
	Pittsburgh	PITBPADG1UD		12/71	Fort Worth 1, TX	FTWOTXEDB1T	1/71	
	Wilmington, DE	WLMGDEWL1UD		10/71	Kansas City, MO	KSCYMOO91UD	9/71	
	Fort Washington	FTWSPAFW1UD		7/74	San Antonio 1, TX	SNANTXCA1UD	5/71	
	Harrisburg	HRBGPAAH1UD	12/75	St. Louis, MO	STLSMOO91CB	8/71		
C&P	Washington, D. C.	WASHDCDT1UD	5/70	Oklahoma City, OK	OKLAOKCE1UD	9/71		
	Norfolk-Bute, VA	NRFLVAO11EB	9/72	Dallas 2, TX	DLSTXTL3UD	11/71		
	Richmond (Grace St.)	RCMDVAGR1UD	9/73	Houston 2 (Jefferson) TX	HSTNTX012UD	12/72		
	Baltimore, MD	BLTMDCH1UD	3/74	Longview, TX	LGWVXTL1UD	4/73		
	Arlington, VA	ARTNVACK1UD	1/75	Tulsa, OK	TULSOKTB1UD	12/73		
SO	Miami 2, FL	MIAMFLTL1UD	9/69	MTN	Denver, CO	DNVRCOMA1EB	5/71	
	Jacksonville, FL	JCVLFLCL1UD	12/70		Colorado Springs, CO	CLSPCOMA1EB	6/72	
	Charlestown, SC	CHTNSCDT1UD	4/71		Albuquerque, NM	ALBQNMM1UD	5/76	
	Rockdale, GA	RCDLGATL1UD	4/71		Salt Lake City, UT	SLKUTMA1EB	12/76	
	Raleigh, NC	RLGHNCM01UD	8/71		PNB	Portland, OR	PTLDOR621UD	7/71
	Charlotte, NC	CHRLNCCA1UD	11/71	Seattle 1, WA		STTLWASPIUD	9/71	
	Ft. Lauderdale, FL	FTLDFLMA1UD	11/71	PAC		San Francisco 1	SNFCCA011UD	3/72
	Orlando, FL	ORLDFLMA1UD	8/72			Redwood City	RDCYCA021UD	3/72
	Pensacola, FL	PNSCFLEL1UD	5/73			Los Angeles 3	LSANCA031UD	4/72
	Atlanta NW, GA	ATLNGANW1UD	5/73		Oakland-Franklin 3	OKLDCA031UD	7/72	
	Ojus 1, FL	OJUSFLTL1UD	5/73		Anaheim 1	ANHMCA01D30	6/72	
	Greensboro, NC	GNBONCEU1UD	1/74	San Diego	SNDGCA021UD	6/73		
	Atlanta 51 IVY, GA	ATLNGATL1UD	5/74	Sherman Oaks 2	SHOKCA029UD	7/73		
	Ojus 2, FL	OJUSFLTL2UD	8/74	Sherman Oaks 3	SHOKCA038UD	10/74		
	Columbia, SC	CLMASCTL1UD	9/74	Reno 2, NV	RENONVO21UD	3/75		
	West Palm Beach, FL	WPBHFLAN1UD	9/75	SNE	Bridgeport	BRPCTO21EB	1/71	
	Columbus, GA	CLMBGAMT1UD	4/76		Norwalk	NRWLCTO21EB	6/71	
	Macon, GA	MACNGAMT1UD	12/75		New Haven #2	NWHNCTO21EB	7/72	
Savannah, GA	SVNHGABS1UD	2/76	Hartford #3		HRFRCTO31EB	9/74		
Daytona Beach, FL	DYBHFLMA1UD	9/76	CINN		Cincinnati	CNCNOWHS1EB	11/70	
SC	Memphis, TN	MMPHTNMA1EB		6/70	CANADA TCTS	Vancouver, B.C.	VANCB011EB	11/74
	New Orleans, LA	NWORLAMA1UD		10/70				
	Nashville, TN	NSVLTNMT1EB	4/71					
	Jackson, MS	JCSNMSPS1UB	4/72					
	Chattanooga, TN	CHTGTNMA1EB	7/72					
Birmingham, AL	BRHMALMT1UB	6/72						
Louisville, KY	LSVLKYCS1EB	4/73						
Knoxville, TN	KNVLTNMA1EB	5/74						
Shreveport, LA	SHPTLATL1EB	11/75						
OHIO	Cleveland	CLEVOH621UD	3/71					
	Columbus	CLMBOH111EB	6/71					
	Dayton	DYTNOH221EB	2/72					
	Youngstown	YNTWOH021UD	9/72					
	Akron	AKRNOH251UD	11/73					
	Toledo	TOLDOR211UD	6/74					

Chart 16

NEW TRAFFIC SERVICE POSITIONS SYSTEM NO. 1 IN-SERVICE - 1977-1982
(BASED ON APRIL 1977 CONSTRUCTION BUDGET VIEW)

CO.	LOCATION	CLLI	GENERIC	SHIP DATE	SERVICE DATE
NE	Portland, ME	PTLDMEF01UD	7	5/76	5/77
	Worcester, MA	WRCSMAMA1EB	7	8/76	9/77
	White River Jct., VT	WRJCVTGABIT	8	1978	1979
NY	New York - East (Williamsburg)	NYCKNYWM---	8	9/78	9/79
	New York - West (Broadway)	NYCMNYBW---	8	9/79	9/80
	Mid-Nassau (Hempstead)		8	2/78	5/79
	Buffalo		8	3/79	5/80
NJ	(none)				
PA	Altoona		7	2/77	12/77
C&P	Baltimore 2, MD	BLTMMDCH2EB	8	4/79	5/80
	Charleston, WV	CHTNWVLEA00	8	6/79	4/80
SO	Greenville, SC	GNVLSCTLIEB	7	2/77	1/78
SOCN	Montgomery, AL	MTGMALMT---	8	12/76	4/78
	Winchester, KY	WNCHKYMA1EB	8	2/79	2/80
	Baton Rouge, LA	BTRGLAMA1UD	6	4/76	3/77
OHIO	(none)				
MICH	Saginaw	SGNWMIMN1UD	7	3/76	1/77
	Grand Rapids	GDRPMIMN1UD	6	5/76	2/77
IND	(none)				
WISC	(none)				
ILL	Peoria-Jefferson Collinsville		7.2	12/76	11/77
			8.0	12/77	11/78
NW	Des Moines, IA Fargo, ND	DESMIADT1EB	7.0	10/76	10/77
		FARGNDBC1EB	8.0	4Q77	2Q80
SWB	Wichita, KS		7.0	2/76	4/77
	Midland, TX (Mutual)		7.0	8/76	6/77
	Kansas City, KA (Springfield)		7.0	12/76	12/77
	Topeka, KA		7.0	7/77	6/78
	St. Louis 2, MO (Olive)		7.0	9/77	9/78
	Houston 3, TX (Wesleyan)		7.0	9/77	9/78
	Oklahoma City 2, OK		8.0	2/78	2/79
	San Antonio, TX		7.0	4/81	4/82
MTN	Phoenix, AZ			6/76	7/77
	Tucson, AZ			3/78	4/79
PNB	(none)				
PAC	Gardena 2	GRDNCA-----	7	5/77	4/78
	San Jose 2	SNJSCA-----	7	5/78	2/79
	Sacramento 1		7	4/78	2/79
	San Diego 2		8	5/81	4/82
SNE	(none)				
CINN	(none)				

DISTANCE DIALING COORDINATORS AS OF APRIL 1, 1977

CO.	AREA	LOCATION	COORDINATOR	TELEPHONE NO.	CO.	AREA	LOCATION	COORDINATOR	TELEPHONE NO.
NE	Staff Massachusetts Northern States Rhode Island	Boston	J. F. Beer	617-879-9279	NW	Staff Minnesota Iowa Nebraska South Dakota North Dakota	Omaha	G. H. Sanders	402-422-2274
		Framingham	E. B. Scheipers	617-879-9279			Minneapolis	L. G. Kappel	612-344-6118
		Manchester	R. M. Dudley	603-645-3431			Des Moines	D. L. Heidt	515-286-6066
		Providence	P. A. O'Brien	401-525-2424			Omaha	F. D. Fleck	402-422-3863
NY	Staff Network Operations	New York	A. B. Bortz	212-394-1248	SW	Staff	St. Louis	C. W. Edmundson	314-247-3804
		New York	J. R. Bryant	212-370-2810			Little Rock	J. Zanoff	501-371-5123
NJ	Staff	East Orange	H. Wolfe	201-672-7190	SW	Arkansas Kansas Kansas City St. Louis Oklahoma Dallas Houston San Antonio	Topeka	H. L. Thompson	913-357-2811
		Philadelphia	L. C. Franks	215-466-2386			Kansas City	W. M. Schmit	816-275-8510
		Philadelphia	J. R. Link	215-466-5420			St. Louis	F. F. Stieffermann	314-247-4469
PA	Staff Eastern & Delaware Central Western	Harrisburg	A. H. Peters	717-255-4582	SW	Oklahoma Dallas Houston San Antonio	Oklahoma City	F. W. Kamp	405-276-6321
		Pittsburgh	R. S. Stoker	412-633-4783			Dallas	C. V. Looper	214-745-3836
							Houston	J. D. Wanja	713-521-8431
C&P	Staff Washington Maryland Virginia West Virginia	Washington	M. E. Ricketts	202-392-5556	MTN	Staff	San Antonio	J. L. Zumwalt	512-222-3909
		Washington	M. J. Dumas	202-392-3111			Denver	F. E. Marick	303-624-4516
		Baltimore	E. M. Fields	301-393-3336			Phoenix	A. H. Hall, Jr.	602-263-1976
		Richmond	S. E. Craddock	804-772-5791			El Paso	D. H. Becker	915-543-4455
SO	Hq. Staff Florida Staff Northern Florida Southern Florida Southeastern Florida Georgia - Metro Georgia - Outstate North Carolina South Carolina	Charleston	R. A. Taylor	304-344-6572	MTN	Arizona El Paso Colorado Idaho Montana New Mexico Utah Wyoming	Denver	J. A. Stinson	303-624-7657
		Atlanta	C. Perkins, Jr.	404-529-8557			Boise	L. L. Dieter	208-385-2371
		Miami	G. D. Boggs	305-263-2941			Helena	L. C. Stetzner	406-449-3230
SO	Hq. Staff Florida Staff Northern Florida Southern Florida Southeastern Florida Georgia - Metro Georgia - Outstate North Carolina South Carolina	Jacksonville	R. W. Williams	904-353-2576	PNB	Staff	Albuquerque	J. L. Baker	505-765-7454
		Miami	H. N. Ivestor	305-263-2342			Wash. - Idaho	S. M. Carlson	801-257-6428
		Ft. Lauderdale	R. B. Vogel	305-776-3506			Oregon	June Kepp	307-634-2580
SO	Hq. Staff Florida Staff Northern Florida Southern Florida Southeastern Florida Georgia - Metro Georgia - Outstate North Carolina South Carolina	Atlanta	M. D. English	404-391-2557	PNB	Staff	Salt Lake City	G. D. Frampton	206-345-4060
		Atlanta	T. J. Smith	404-391-2559			Seattle	R. P. Kersten	206-345-3700
		Atlanta	G. K. Robinson	704-377-8726			Portland	H. M. Brown	503-242-5414
SO	Hq. Staff Florida Staff Northern Florida Southern Florida Southeastern Florida Georgia - Metro Georgia - Outstate North Carolina South Carolina	Charlotte	W. A. Humphries	803-799-9872	PAC	Staff	San Francisco	C. B. Esser	415-542-3164
		Columbia	H. D. Adamson	205-321-8580			Sacramento	M. G. Jerome	916-648-5566
		Birmingham	J. A. LeCroy	205-877-5612			San Diego	L. R. Rarick	714-238-2655
SO	Hq. Staff Florida Staff Northern Florida Southern Florida Southeastern Florida Georgia - Metro Georgia - Outstate North Carolina South Carolina	Birmingham	A. P. Crump	502-582-8719	PAC	Northern Sector Southern Sector Bay Sector Los Angeles Sector Nevada	San Jose	R. G. Tinch	408-291-2947
		Louisville	C. Fusellier	504-529-8232			Los Angeles	D. S. Myers	213-621-5420
		New Orleans	G. L. Robertson	601-948-3514			Reno	W. A. Hohn	702-789-6582
SO	Hq. Staff Florida Staff Northern Florida Southern Florida Southeastern Florida Georgia - Metro Georgia - Outstate North Carolina South Carolina	Jackson	V. E. Matthews	615-298-7470	LL	Staff	Bedminster	A. C. Soldavini	201-234-4906
		Nashville	H. D. Adamson	205-321-8580			White Plains	E. E. Estey	914-320-2263
		Birmingham	J. A. LeCroy	205-877-5612			New York	R. W. Hoffman	212-334-6587
OHIO	216 Area 4-5-6 Area	Cleveland	J. L. Draheim	216-822-7679	LL	Central Southern Midwestern Eastern - PA Eastern - C&P Western	Chicago	J. W. Duncan	312-885-8500
		Columbus	T. A. Norman	614-460-8640			Atlanta	M. J. Garcia	404-529-6701
							Kansas City	H. W. Townsend	816-391-2423
MICH	Michigan	Southfield	J. A. McGill	313-424-0075	LL	Eastern - PA Eastern - C&P Western	Washington, DC	J. M. Hogan	202-457-2250
							Washington, DC	J. L. Torbert	202-457-2030
IND	-	Indianapolis	V. C. Klinger	317-265-3818	CANADA TCTS	Trans-Canada Tel. Sys.	San Francisco	F. J. Curran	415-442-2226
							Ottawa	L. H. W. deLauney	613-239-2916
WISC	-	Milwaukee	P. B. Cramton	414-678-2164					
ILL	Headquarters	Chicago	R. L. McDowell	312-727-6193					
SNE	-	New Haven	H. J. Beaudin	203-771-6569					
CINN	-	Cincinnati	R. Kidd	513-397-4151					

Chart 18

IDDD INTER-DEPARTMENTAL COORDINATORS AS OF JUNE 1, 1977

CO.	COORDINATOR	TELEPHONE NO.	REMARKS
NE	M. L. Walsh	617-743-3537	
NY	R. A. Dereska (Mrs.)	212-399-7403	Overall Coordinator
NJ	R. C. Harrison	201-649-3292	
PA	E. Durrwachter M. Saunders	215-466-4660 215-466-3000	Overall Co. & Engrg. Operations
C&P	A. W. Capuano E. E. Goodrich D. C. Michaelis, Jr. W. D. Cauley W. C. Hogue	202-392-8941 202-392-2231 301-393-2881 804-772-5791 304-344-7686	Overall Coordinator Washington Maryland Virginia West Virginia
SO	J. B. Grainger C. Perkins	404-529-8108 404-529-8557	IOTC IDDD
SOCN	G. C. Newcomer R. T. Mason	205-321-8529 205-321-8494	Overall Coordinator Traffic Matters
OHIO	J. L. Draheim	216-822-7542	
MICH	K. Killoran	313-424-0571	
IND	R. C. Harold	317-265-2999	
WISC	C. H. Weaver	414-678-2256	
ILL	K. E. Gerler	312-727-2963	
NW	G. R. Gabrielson	402-422-3549	
SW	T. R. Hanske	314-247-4654	
MTN	D. F. Krell	303-624-8687	
PNB	J. G. Kent	206-345-6933	
PAC	T. W. Powers	415-542-1238	
LL	K. A. Pomroy R. G. Hattauer A. E. Kavanaugh T. B. Washburn R. N. Stein K. E. Koenig H. P. Hart E. M. Lubahn	201-234-7835 914-320-4253 212-334-3370 202-466-3264 904-350-5143 312-855-8857 816-391-2866 303-233-3634	Headquarters Northeastern Area New York City Area Eastern Area Southern Area Central Area Midwestern Area Western Area
SNE	M. Aldrich	203-771-2427	IDDD
CINN	W. L. Reeves	513-397-2231	
AT&T	J. R. DeLeon N. K. Wickham (Mrs.) J. V. Murphy (Mrs.) C. R. Crump D. G. Miller T. Fay R. E. Zanders L. Smith R. Keevers	201-221-4720 201-221-3522 201-221-3959 201-221-4754 201-463-7649 201-221-3223 201-221-4870 201-221-6272 201-949-5388	Network Operations Operator Services Customer Assistance Network Maintenance Comptrollers Matters Public Relations Eng'g & Ntwk Services Marketing Bell Laboratories
<u>CANADA</u>			
TCTS	W. H. Snuggs L. H. W. deLauney	613-230-4468 613-239-2916	IOTC Engineering Matters

CLASS	CLASS 1				CLASS 2				CLASS 3				CLASS 4				TOTAL						
	1	2	3	4	1	2	3	4	2	3	4	2	3	4	3	4	3	4	1	2	3	4	
CO.																							
NE						3	7						6	15		18		34		3	13	67	
NY					1	4	6	3				1	20	42	1	25		14	1	3	27	85	
NJ						2	5	1				4	3	11		7		1		2	8	24	
PA					2	2	5					2	2	12	2	16		16	2	2	9	46	
C&P						4	5					4	1	2	1	22		9		4	7	47	
SO				1	1	7	9	4			2	3	1	7	2	22		21	1	7	15	58	
SOCN						6	3	1				2	4	2	6	37		12		6	13	54	
OHIO						1	8					1	3	6		11		11		1	9	29	
MICH						2	5	1				2	2	10	1	5		10		2	8	28	
IND						3							2	1		8		10		3	2	19	
WISC						2	2					3	1	4	2	3		13		2	5	23	
ILL				1 ^②	1	3	5	1				3	2	17		15		2	1	3	7	39	
NW						4	1				1	5	6	3	8	29		25		4	16	62	
SW	1 ^①	1			2 ^①	5	9	2			4	4	2	8	7	5	45		40	2	8	26	98
MTN					1	5	5	2				2	1	1	2	4	16		29	1	6	10	51
PNB						2	3					2	3	3	6	4	2	9		2	14	18	
PAC					2	8	10	3				2	13	23	1	12		26	2	8	24	66	
SNE						1	2					1		9		1		14		1	2	25	
CINN						1								2		1		2		1		5	
SYSTEM TOTAL	1	1		2	10	65	88	18			7	41	3	78	188	40	297	2	298	10	69	215	844
NON-BELL							5	6						2			3				8	8	
CANADA					1	3	4	1				3	4	8	4		6		1	6	18	9	
TOTAL	1	1		2	11	68	97	25			7	41	6	82	198	44	297	11	298	11	75	241	861

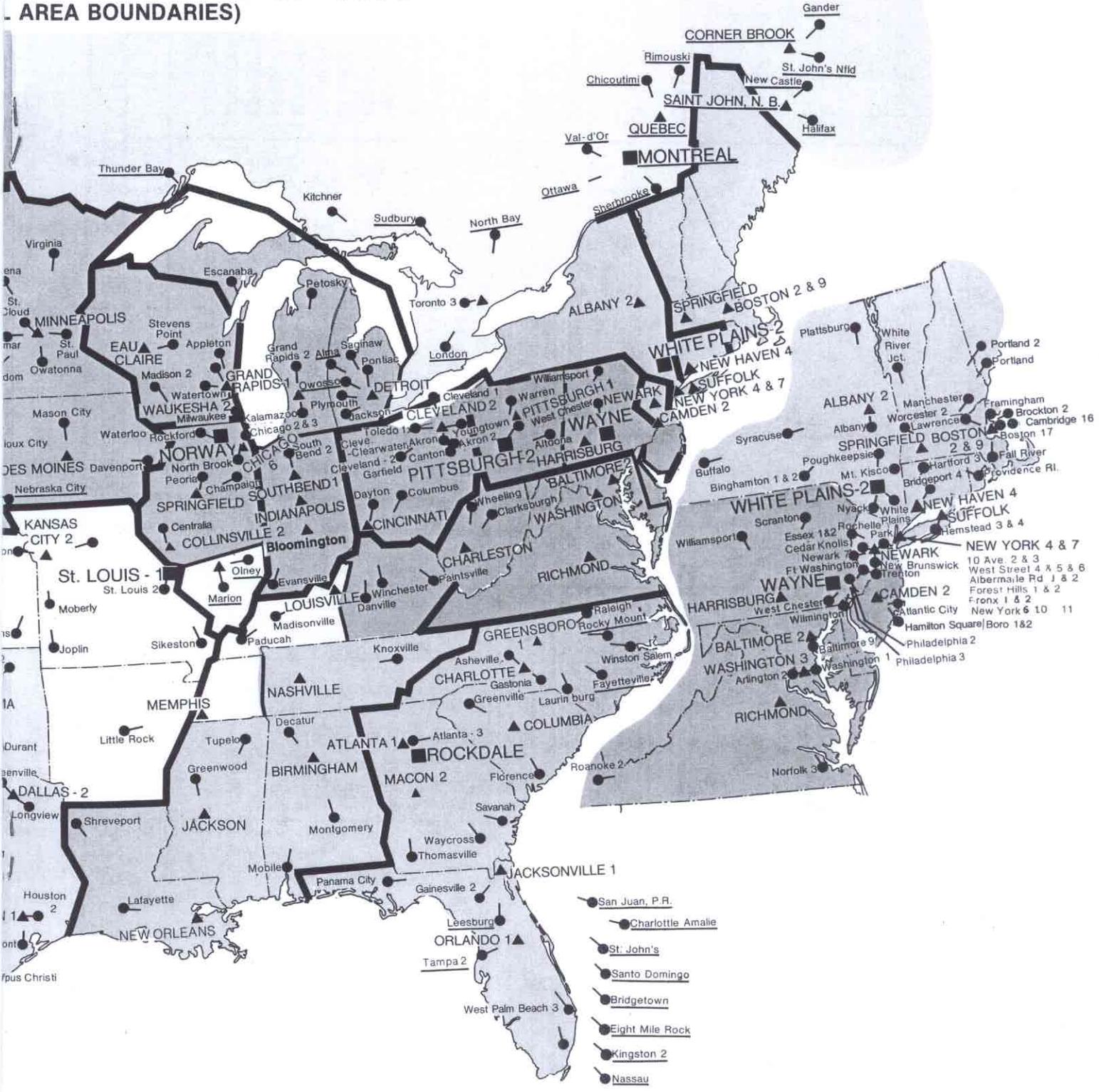
Notes: This tabulation presents a summary based on data included on the various charts herein.
Future issues will be updated to reflect those Class 4 and above systems not shown.

① 4 ESS/4A (Class 1 Shared) ② Chicago SRT φ Indicates other type switching systems

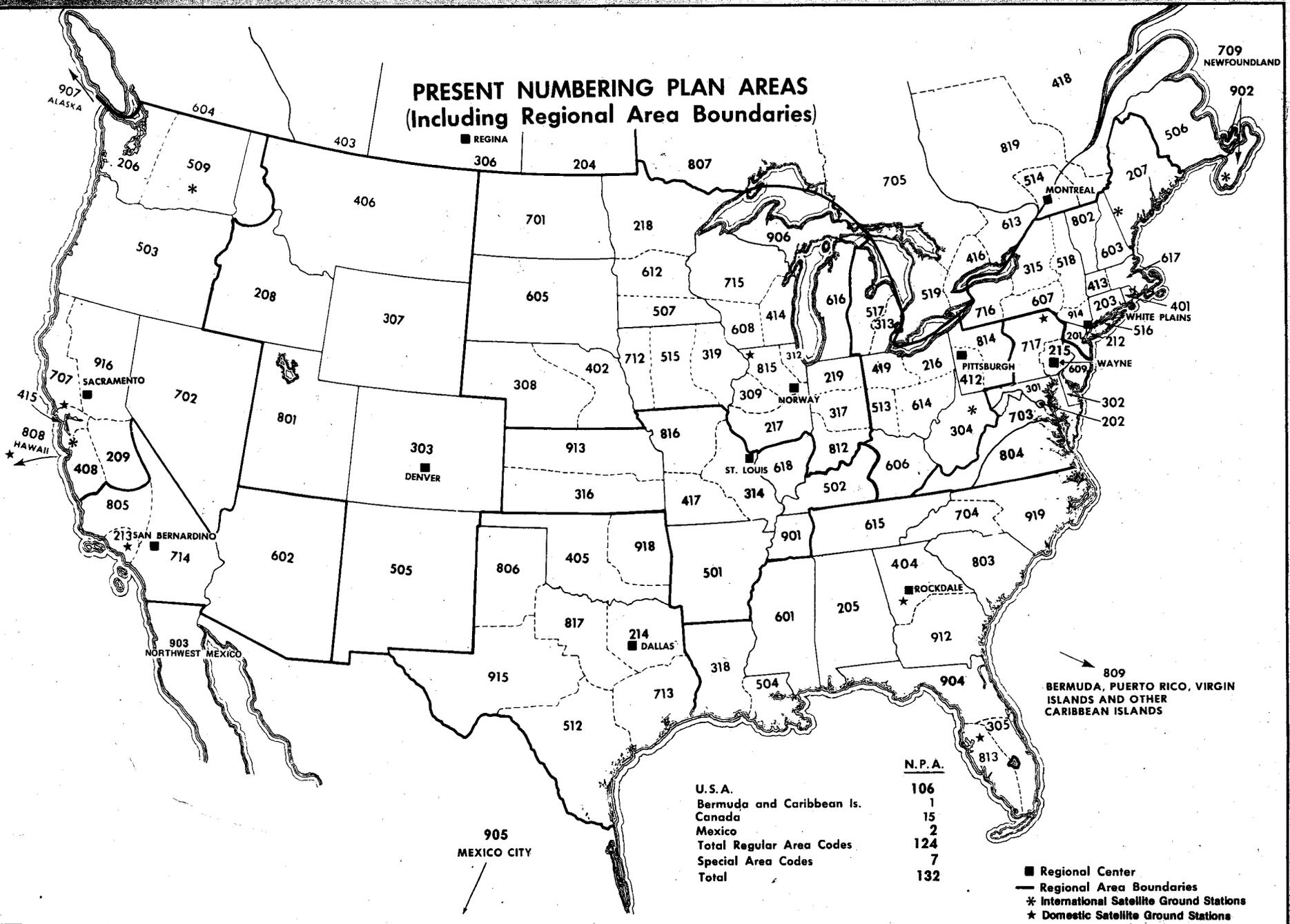
NON-BELL φ				12	
CANADA φ	1	3	9		
	12	78	262	861	

NETWORK - END OF 1976

(AREA BOUNDARIES)



PRESENT NUMBERING PLAN AREAS (Including Regional Area Boundaries)



905
MEXICO CITY

U.S.A.
Bermuda and Caribbean Is.
Canada
Mexico
Total Regular Area Codes
Special Area Codes
Total

N.P.A.	
U.S.A.	106
Bermuda and Caribbean Is.	1
Canada	15
Mexico	2
Total Regular Area Codes	124
Special Area Codes	7
Total	132

- Regional Center
- Regional Area Boundaries
- * International Satellite Ground Stations
- ★ Domestic Satellite Ground Stations