

LIST 2 CURRENT DRAINS FOR FULL SELECTOR CIRCUITS
FOR DISTRIBUTING EQUIPMENT
AMPERES PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY				COMB. 48V & 24V GRD		+130V SIG
				48V		24V		SIG	TLK	BAT.
AUTOMATIC NUMBER IDENTIFICATION										
LINE VERIFICATION	SD-32246-01			.905				.203		
AUTOMATIC TRUNK TEST IDENTIFIER	SD-32315-01 SD-32374-01		1	.911				.077		.019
			6	.903				5.32		.026
			6.8	.907						
OUTPULSER	SD-32375-01			.903				1.49		
RECEIVER	SD-32310-01			.913				4.49		.677 .67
NETWORK & BUS COMM	SD-32314-01			.903				2.50		
OUTPULSER IDENTIFIER TEST	SD-32315-01		2	.903				.20		
YICKETER	SD-32316-01			.903				3.15		
OSCILLATOR	SD-32327-01			.903				6.5		
RF SIGNAL GENERATOR	SD-32367-01		3	.903				.033		
OUTPULSER COMM	125 TRK 250 TRK 575 TRK 500 TRK	SD-32360-01		2.11				2.78		
				6.18				7.55		
				12.2				14.6		
				20.2				22.4		
COMMON CONTROL										
REGISTER, ORIG & OUTPULSING CONT	SD-32351-01		12,13	.155				.111		
			13		.111				.111	
			14	1.19				.935		
			15	2.12				1.45		
CONVERTER	SD-32352-01		10	.155				.111		
LINK, REGISTER TRUNK	SD-32353-01		11	.155				4.75		
CONNECTOR, TRANSLATOR DECODER	SD-32354-01		15	.535				.545		
			16,17	.155				.111		
			18	.155				.111		
			19,19	.155				.111		
TRANSLATOR	SD-32355-01			1.230				1.179		
RECEIVER	SD-32356-01			3.17				3.04		
TRANSLATOR, FOREIGN AREA	SD-32357-01		20	.301				.301		
ALARM	SD-32361-01	PER APP FIG. 4		.056						
TEST	SD-32362-01			1.46				1.46		
YICKETER	SD-32364-01			.903				.903		
TEST	SD-32365-01			3.72				3.72		
TRUNK CLASS	SD-32366-01			.129				.129		
COUNTING	SD-32368-01			.050				.050		
CONVERTER	SD-32369-01			.073				.073		
CONTROL & TRUNK	SD-33040-01									
CODE COMBINATION										
1, 2 OR 4 PARTY	ALL TYPES		4	.152				.220		
CODE RING	ALL TYPES		4	.152				.220		
COIN	SD-33022-01			.152				.220		
LINE INSULATION TEST TTY	SD-33046-01			.320				.320		
REMOTE CONTROL	SD-33073-01			.161		.009		.151		
TOLL	ALL TYPES		4		.061			.026		
CONTROL										
LINE INSULATION TEST	SD-33219-01			6.61		1.00		7.61		.406 .40
WIRING & CONTROL	SD-33035-01			2.75				2.75		
TRAFFIC REG CAMERA	SD-33073-01			.152				.152		
CONVERTER, DIAL PULSE	SD-33229-01		5	2.23	.100			1.12	.100	
FINDER										
TRK FOR WHEN USED FOR TOUCH-TONE	SD-31953-01			5.30				.510		
LINE-EMERGENCY	SD-32313-01	PER			.174			.110		
		APP FIG. 1								
		APP FIG. 2						.068		
		APP FIG. 3		.035				.036		
MAKE BUSY TRUNK	SD-32337-01	PER		.036				.036		
		APP FIG. 1		.011				.011		
		APP FIG. 2		.011				.011		
CONVERTER	SD-33028-01			5.30				5.30		
PERM SIG	SD-33033-01		7					.109		
LINE OR TRUNK	ALL TYPES		4	.095				.030		
				.095				.026		
PULSE GENERATOR & COUNTING	SD-32310-01				.132			.132		
RECEIVER, TOUCH-TONE CALLING	SD-33148-01		9							

NOTES:

9. ADD PER REGISTER.
10. ADD PER (TW) REL.
11. ORIG REGISTER ONLY OR ORIG PEG & OUTPUTSING CONT.
12. ADD FOR PARTY TEST.
13. ORIG REGISTER ONLY.
14. ORIG REGISTER & OUTPUTSING CONTROLLER.
15. FUSE ON REGISTER FRAME.
16. ADD PER CONN PER TRANSLATOR.
17. ADD WHEN DECODER CONN IS USED.
18. PER GROUP OF FOREIGN AREA TRANSLATORS ASSOCIATED WITH THE SAME DECODER.

1. ADD PER CONTROL POSITION.
2. THIS DRAIN IS PER OFFICE AND APPLIES ONLY TO OFFICES HAVING TWO PARTY FLAT RATE LINES.
3. DRAIN FOR THIS CKT IS INCLUDED IN THE VALUES FOR SD-95811-01.
4. LINE CIRCUIT DRAINS ARE INCLUDED WITH THOSE OF COMM OR LINE FINDERS.
5. INCLUDES DRAINS FOR TOUCH-TONE CALLING RECEIVER CKT.
6. FUSES ARE ON OUTPUTLER FRAME.
7. ADD PER APP FIG. 3.
8. ADD PER APP FIG. 4.
9. DRAIN INCLUDED IN TOUCH-TONE CALLING SIGNAL TO DP CONVERTER CKT SD-32328-01.
10. DRAIN INCLUDES MF RECEIVER.
11. ADD PER (TB) REL.

12. ADD FOR PARTY TEST.
13. ORIG REGISTER ONLY OR ORIG REGISTER & OUTPULSING CONT.
14. ORIG REGISTER ONLY.
15. ORIG REGISTER & OUTPULSING CONT.
16. THE MAX. DRAIN FOR ALL COIN IS THIS VALUE TIMES THE NUMBER OF TRANSLATORS.
17. FUSE ON REGISTER FRAM.
18. ADD PER COIN PER TRANSLATOR.
19. ADD WHEN DECODER CONN IS USED.
20. PER GROUP OF FOREIGN AREA TRANSLATORS ASSOCIATED WITH THE SAME DECODER.

NO. 1
CURRENT DRAIN DATA

SD-31359-42-81

BELL TELEPHONE LABORATORIES
INCORPORATED

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LIST 1 CURRENT DRAINS FOR FULL SELECTOR CIRCUITS
FOR POWER PLANT
AMPERE BUSY HOUR DRAIN PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY					
				48V	24V	+130V	SIG	TLK	SIG
RECORDER, TRAFFIC USAGE	SD-95738-01			NEG					.150
REPEATER (EXCEPT SEL REPEATER)	ALL TYPES	AMP HOURS PER CCS			.0055				
SELECTOR									
LOCAL OR INCOMING	SD-30200-01	AMP HOURS PER CCS		.0010					
3 OR 4 WIRE DIGIT ABSORBING	SD-30976-01	AMP HOURS PER CCS	1	.0071					
REVERTING CALL	SD-30978-01	AMP HOURS PER CCS			.0055				
3 OR 4 WIRE DIGIT ABSORBING	SD-30977-01	AMP HOURS PER CCS	1	.0010					
A-B TOLL PRECEDING	SD-31231-01	AMP HOURS PER CCS		.001					
*A-B TOLL WITH OR WITHOUT DIGIT ABS	SD-31411-01	AMP HOURS PER CCS	1	.007					
REVERTING CALL	SD-31413-01	AMP HOURS PER CCS			.005				
REVERTING CALL	SD-31447-01	AMP HOURS PER CCS			.005				
TOLL INTERMEDIATE OR INC.	SD-31744-01	AMP HOURS PER CCS		.0010					
TOLL XMSN WITH DIGIT ABS	SD-31941-01	AMP HOURS PER CCS	1	.0055	.0042				
TOLL INTER OR INC DIGIT ABS	SD-31943-01	AMP HOURS PER CCS	1	.0010					
3 OR 4 WIRE DIGIT ABS, OR SERVICE CODE	SD-32077-01	AMP HOURS PER CCS	1	.0010					
3 OR 4 WIRE DIGIT ABS	SD-32100-01	AMP HOURS PER CCS	1	.002					
LOCAL, INC OR 2 PTY NR, 3 OR 4 W	SD-33003-01	AMP HOURS PER CCS		.002					
CODE	SD-33027-01	AMP HOURS PER CCS	1	.001					
CODE, DIGIT ABS	SD-95898-01	AMP HOURS PER CCS	1	.001					
SELECTOR REPEATER	ALL TYPES	AMP HOURS PER CCS			.010				
SWITCH, ROTARY OUT, TRK	SD-30868-01	AMP HOURS PER CCS		.0017					
TEST									
LINE INSULATION	SD-95537-01			NEG					
AUX STATION RINGING	SD-32195-01			NEG	NEG				
MANUAL OUTGOING TRK TEST FRAME	SD-32349-01	AMP HOURS PER CCS	2	.015		.0030			
INC REMOTE TEST CKT	SD-99311-01	AMP HOURS PER CCS		.040					
TRANSFER									
LINE OR TRUNK, FOR RESTORING SERVICE ON AN EMERGENCY BASIS	SD-95690-01	FIG. 1 FIG. 2 FIG. 4 FIG. 5 FIG. 6	NEG NEG NEG NEG NEG						

NOTES:

- WHEN USED AS A DIGIT ABSORBING SELECTOR ADD .006 AH/WH SIG BAT. PER CKT.
- *A* INDICATES +110V OR +CC.

LIST 2 CURRENT DRAINS FOR FULL SELECTOR CIRCUITS
FOR DISTRIBUTING EQUIPMENT
AMPERES PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY			COMB 48V & 24V GRD		+130V SIG
				48V	24V	+130V	SIG	TLK	BAT. GRD
RECORDER, TRAFFIC USAGE	SD-95738-01		4	1.25			1.25		.112
REPEATER (EXCEPT SEL REPEATER)	ALL TYPES				.150				.200
SELECTOR									
LOCAL OR INCOMING	SD-30200-01			.024			.005		
3 OR 4 WIRE DIGIT ABSORBING	SD-30976-01		2	.010					
REVERTING CALL	SD-30978-01				.121				.258
3 OR 4 WIRE DIGIT ABSORBING	SD-30977-01		2	.022			.011		
A-B TOLL PRECEDING	SD-31231-01			.020			.020		
*A-B TOLL WITH OR WITHOUT DIGIT ABS	SD-31411-01		2	.141			.124		
REVERTING CALL	SD-31413-01				.099				.193
REVERTING CALL	SD-31447-01				.098				.186
TOLL INTERMEDIATE OR INC.	SD-31744-01			.021			.005		
TOLL XMSN WITH DIGIT ABS	SD-31941-01		2	.109	.083		.290	.083	
TOLL INTER OR INC DIGIT ABS	SD-31943-01		2	.021			.005		
3 OR 4 WIRE DIGIT ABS, OR SERVICE CODE	SD-32077-01		2	.021			.005		
3 OR 4 WIRE DIGIT ABS	SD-32100-01		2	.038					
LOCAL, INC OR 2 PTY NR, 3 OR 4 W	SD-33003-01			.021			.004		
CODE	SD-33027-01		2	.010					
CODE, DIGIT ABS	SD-95898-01		2	.010					
SELECTOR REPEATER	ALL TYPES				.200				.250
SWITCH, ROTARY OUT, TRK	SD-30868-01			.033			NEG		
TEST									
LINE INSULATION	SD-95537-01			.032			.032		
AUX STATION RINGING	SD-32195-01			.700	NEG		.700		
MANUAL OUTGOING TRK TEST FRAME	SD-32349-01		3	.292			.328		A.013
INC REMOTE TEST CKT	SD-99311-01			1.12			1.12		
TRANSFER									
LINE OR TRUNK, FOR RESTORING SERVICE ON AN EMERGENCY BASIS	SD-95690-01	FIG. 1 FIG. 2 FIG. 4 FIG. 5 FIG. 6	1 1 1 1 1	.026 .018 .174 .007 .000	A.009 A.218 A.031 A.031 A.000		.026 .013 .059 .059 .000	A.009 A.218 A.031 A.031 A.000	.009 .009 .031 .031 A.000

NOTES:

- *A* DENOTES -130V SIG BAT. & GRD.
- WHEN USED AS A DIGIT ABSORBING SELECTOR ADD THE FOLLOWING 48V SIG BAT. AND GRD VALUES TO THE ABOVE DRAIN IN ACCORDANCE WITH THE NUMBER OF SELECTORS WHICH ARE FED BY A COMMON FEEDER.
.023 AMP FOR 160 SEL
.0162 AMP FOR 320 SEL
.012 AMP FOR 640 SEL
.0105 AMP FOR 960 SEL
- *A* INDICATES +110V OR +CC.
- 130V DRAIN SHOWN IS ON A PER FRAME BASIS.

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STEP BY STEP SYSTEMS
NO. 1
CURRENT DRAIN DATA

BELL TELEPHONE LABORATORIES
INCORPORATED

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LIST 2 CURRENT DRAINS FOR "A" SWBD (SEE NOTE 1)
FOR DISTRIBUTING EQUIPMENT
AMPERES PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE		CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY				COMB. 48V & 24V GRD		130V SIG	
					48V		24V		SIG	TLK	BAT.	GRD
					SIG	TLK	SIG	TLK				
ALARM												
EMERGENCY		SD-90437-01		2								
MAJOR AUDIBLE		SD-95978-01			NEG							
AMPLIFIER, VF		SD-95112-01		3								
CONTROL INDICATOR		SD-96033-01			.060				.069			
CORD												
SPL SERV OR RCDG COMPL		ALL TYPES				.103	.175		.025	.103		
COMBINATION		ALL TYPES				.103		.175		.200		
JACK												
ANSWERING		SD-90467-01		4.5			.010		.010			
OUT. TRK		SD-90468-01		5.6			.004		.004			
JACK, LAMP AND KEY CKT		SD-32333-01	PER FIG. 2	7.5			.015		.015			
LINE, PLUGGING UP		ALL TYPES			.020							
LINK, KP SENDER		SD-90705-01		8	.100		A		A.100			
				9	.398				.425			
LONG LINE		USED AS A LONG LINE USED AS A LONG TRUNK	SD-96251-01		.100				.100			
MONITORING, DP POSITION		SD-95610-01 SD-90457-01		3	.100				.100			
PULSE CONVERTER												
DCKP TO MF		SD-95567-01		10	.688	P.075	.075		.308			
DP TO MF		SD-90453-01			.262				.226			
RECEIVING, MF P		SD-95538-01			.098				.215		.156	
RECEIVER-DUAL CHANNEL		X OPTION F, Z OPTION	SD-95956-01		NEG							
REGISTER, TOTALIZING PEG COUNT		SD-95265-01		11, 12	.215				.215		.168	
SENDER												
MF P		SD-95480-01			.78				.78			
DCKP		SD-95481-01			1.550				.810			
SERVICE OBSERVING												
MULTILINE		SD-95583-01		10	.705	P.025			.703			
MULTILINE		SD-95584-01		13	1.450		.153		1.766		C.108	C.059
				10, 14	.028	P.011			.025	P.011		
				10, 15	.028	P.011	.011		.028			
MULTILINE		SD-95805-01		13	1.630		.152		1.723		C.076	C.059
				10, 14	.028	P.011			.025	P.011		
				10, 15	.028	P.011	.011		.025			
REMOTE CONTROL COMM		SD-95763-01			.141		.009		.151			
MULTILINE		SD-95882-01			.693				.104			
SERV OBS		OTHERS			.100				.100			

NOTES:

1. 24V TLK DRAIN IS REQUIRED ON SOME CIRCUITS, BUT THE TOTAL OF SUCH DRAINS IS CONSIDERED NEGLIGIBLE.
2. THE DRAINS ARE COVERED IN THE SPECIFICATION FOR THIS CIRCUIT.
3. DRAIN FOR THIS CIRCUIT IS SHOWN IN THE DRAIN FOR SERV OBS CIRCUIT.
4. PER 2G ANSWERING LAMP; FUSES ARE ON THIS CRT OR TRK CRT AS SPECIFIED.
5. GROUND IS LAMP GROUND.
6. PER 2U ANSWERING LAMP; FUSES ARE ON TRUNK CIRCUITS.
7. PER 2J GROUP BUSY LAMP; FUSES ARE ON TRK CIRCUITS OR GROUP BUSY RELAY CIRCUIT AS SPECIFIED.
8. -P- ADD .050 ONLY WHEN 24V IS SPECIFIED ON THE CIRCUIT DWG.
9. MAX. DRAIN ON ANY ONE POWER LEAD IS THE VALUE SHOWN TIMES THE NUMBER OF KP SENDERS IN THE OFFICE.
10. P INDICATES +130V PLATE DRAIN.
11. ADD .087 TO GROUND DRAIN WHEN THIS CIRCUIT IS USED WITH Y OPTION AND IS USED WITH A TRUNK.
12. ADD .044 GROUND DRAIN FOR EACH EMERGENCY LINE CRT (A) REL.
13. C INDICATES +130V SIG OR PLATE.
14. ADD PER 2 AMPLIFIERS.
15. ADD PER CONNECTOR.

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LIST 1 CURRENT DRAINS FOR "A" SWBD (SEE NOTE 1)
FOR POWER PLANT
AMPERE BUSY HOUR DRAIN PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY						
				48V		24V		+130V		
				SIG	TLK	SIG	TLK	SIG		
SUPPLY										
BAT. FOR ELECTRON TUBES	SD-80808-01		2,3	F .51	P .007					
MF CURRENT, & DISTRIBUTION	SD-85391-01		4	1.70		A 2.85				
FILAMENT, FOR MF RECEIVERS	SD-86676-01		5	.139						
				1.312						
TELEPHONE	SD-80486-01					.076				
TIMING, FOR INITIAL CHARGE	SD-85801-01			.028						
TRANSFER										
CAMA KEYSER	SD-86724-01			.041						
KEY & LAMP, FOR CAMA CONNECTIONS IN COMBINED DSA & CAMA POSITIONS	SD-86799-01			.123		.180				
			6	.039						
TRUNK	SD-30816-01		7		.018	.050				
TRUNK	SD-31108-01		7			.030				
TRUNK	SD-31127-01		7		.010	.003				
TRUNK	SD-31432-01		7		.003	.017				
TRUNK	SD-31499-01		7	.017		.003				
TRUNK	SD-31539-01		8		.004	.010				
TRUNK	SD-31839-01			.002	.035	.008				
TRUNK	SD-31678-01			.004	.066					
TRUNK	SD-31678-02			.003	.058					
TRUNK	SD-31710-01		7	.028		.061				
TRUNK	SD-31806-01		7			.082				
TRUNK	SD-31828-01		7		.100	.030				
TRUNK	SD-32326-01			.0134						
TRUNK	SD-80432-01				.004	.018				
TRUNK	SD-80466-01				NEG					
					NEG					
					NEG					
TRUNK	SD-88428-01		9,10	.018		.010				
TRUNK	SD-88428-02		9,10	.018		.010				
TRUNK	SD-88430-01		10		.027					
TRUNK	SD-88471-01		9,10			.059				
TRUNK	SD-88504-01		9,10	.033						
TRUNK	SD-88507-01			.013		.012				
TRUNK	SD-88560-01		11		.010	.009				
				.008		.008				

NOTES:

- 24V TLK DRAIN IS REQUIRED ON SOME CIRCUITS, BUT THE TOTAL OF SUCH DRAINS IS CONSIDERED NEGLIGIBLE.
- F INDICATES +130V PLATE.
- F INDICATES FILAMENT BAT. OR GROUND. DRAINS ARE 48V OR 24V AS SPECIFIED.
- A DENOTES 24V SIG OR FILAMENT.
- ADD FOR EACH FIG. 4 (EMERGENCY BAT. SUPPLY).
- ADD PER SWITCHBOARD.
- DRAINS FOR LAMPS FUSED ON THIS CIRCUIT ARE SHOWN ON CONNECTING ANSWERING JACK CIRCUIT.
- ADD PER (CH) LAMP.
- WHEN CONNECTED TO TRK BUSY RELAY CRT ADD .010 TO 24V SIG BATTERY.
- DRAINS FOR LAMPS FUSED ON THIS CRT ARE SHOWN ON CONNECTING OUT. TRK JACK CRT.
- FOR EACH 2G LAMP ADD .008 FOR 24V SIG BATTERY. FOR EACH 2U LAMP ADD .002 FOR 24V SIG BATTERY.

LIST 2 CURRENT DRAINS FOR "A" SWBD (SEE NOTE 1)
FOR DISTRIBUTING EQUIPMENT
AMPERES PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY				COMB. 48V & 24V GRD		+130V SIG	
				48V	24V	48V	24V	SIG	TLK	BAT.	GRD
				SIG	TLK	SIG	TLK	SIG	TLK		
SUPPLY											
BAT. FOR ELECTRON TUBES	SD-80808-01		3	F .28				F .28			
MF CURRENT, & DISTRIBUTION	SD-85391-01		4	1.28		A 1.91		1.28		A 1.91	
FILAMENT, FOR MF RECEIVERS	SD-86676-01		5	.412				.268			
				3.840				3.840			
TELEPHONE	SD-80486-01					.040		.018		.040	
TIMING, FOR INITIAL CHARGE	SD-85801-01			.04		.084		.132			
TRANSFER											
CAMA KEYSER	SD-86724-01			.002				.011			
KEY & LAMP, FOR CAMA CONNECTIONS IN COMBINED DSA & CAMA POSITIONS	SD-86799-01		6	.001		.111		.208			
				.024							
TRUNK	SD-30816-01		7	.036	.008			.228	.036		
TRUNK	SD-31108-01		7		.005			.008			
TRUNK	SD-31127-01		7	.018	.007			.069			
TRUNK	SD-31432-01		7	.008	.008			.003			
TRUNK	SD-31499-01		7	.037	.007			.134			
TRUNK	SD-31539-01			.005	.050			.108	.005		
TRUNK	SD-31839-01			.060	.050	.011		.118	.050		
TRUNK	SD-31678-01			.102	.102			.137	.102		
TRUNK	SD-31678-02			.102	.102			.118	.102		
TRUNK	SD-31710-01		7	.037	.068			.144			
TRUNK	SD-31806-01		7		.056			.103			
TRUNK	SD-31828-01		7		.100	.020		.087	.100		
TRUNK	SD-32326-01			.0141				.028			
TRUNK	SD-80432-01			.006	.028			.028	.006		
TRUNK	SD-80466-01		8,9					.013			
			8,10					.000			
			8,11					.022			
TRUNK	SD-88428-01		9,12	.024		.017		.082			
TRUNK	SD-88428-02		9,12	.024		.017		.082			
TRUNK	SD-88430-01		8	.086				.091	.086		
TRUNK	SD-88471-01		8,12		.038			.128			
TRUNK	SD-88504-01		8,12	.014				.022			
TRUNK	SD-88507-01			.028		.028		.037			
TRUNK	SD-88560-01		2	.024		.103		.208	.024		
				.022		.145		.230			

NOTES:

- 24V TLK DRAIN IS REQUIRED ON SOME CIRCUITS, BUT THE TOTAL OF SUCH DRAINS IS CONSIDERED NEGLIGIBLE.
- FOR EACH 2G LAMP, ADD .010 FOR 24V SIG BAT. & GRD. FOR EACH 2U LAMP, ADD .004 FOR 24V SIG BAT. & GRD.
- F INDICATES FILAMENT BAT. OR GROUND, DRAINS ARE 48V OR 24V AS SPECIFIED.
- "A" DENOTES 24V SIG OR FILAMENT.
- ADD FOR EACH FIG. 4 (EMERGENCY BAT. SUPPLY).
- ADD PER SWITCHBOARD.
- DRAINS FOR LAMPS FUSED ON THIS CIRCUIT ARE SHOWN ON CONNECTING ANSWERING JACK CIRCUIT.
- DRAINS FOR LAMPS FUSED ON THIS CIRCUIT ARE SHOWN ON CONNECTING OUT. TRK JACK CIRCUIT.
- DRAINS ARE PER (GB) RELAY.
- DRAINS ARE PER 34 OR 37 OHM SLEEVE.
- DRAINS ARE PER 800 OHM SLEEVE.
- WHEN CONNECTED TO TRK BUSY RELAY CRT, ADD .013 TO 24V SIG BATTERY. WHEN CONNECTED TO IDLE TRK INDICATING CRT, ADD .021 TO SIG GRD.

STEP BY STEP SYSTEMS
NO. 1
CURRENT DRAIN DATA

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SD-31359-02-E1

BELL TELEPHONE LABORATORIES
INCORPORATED

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PRINTED IN U.S.A.

LIST 1 CURRENT DRAINS FOR "A" SWBD
FOR POWER PLANT
AMPERE BUSY HOUR DRAIN PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY								
				NEG		24V		+130V	SIG	TLK	SIG	TLK
TRUNK	SD-95811-01				.100							
TRUNK	SD-95873-01					.228						
TRUNK	SD-95704-01		1,2			.017						
TRUNK	SD-95789-01		3	.091	.008	.167						
TRUNK	SD-95796-01		3	NEG								
TRUNK	SD-95851-01		4	.021				A .004				
TRUNK	SD-96164-01		8	.021								
TRUNK	SD-96164-01			NEG								
TRUNK	SD-96164-01			NEG								
TRUNK	SD-96168-01		3			.008						
TRUNK	SD-96216-01		1,2,3			.035						
TRUNK	SD-96283-01		3			.020						
TRUNK	SD-96301-01		3			.020						
TRUNK	SD-96394-01		2,3			.040						
TRUNK	SD-96395-01		2	.022								
TRUNK	SD-96412-01		3			.008						
TRUNK	SD-96459-01				.039	.011						
TRUNK	SD-96522-01		1,3	NEG								
TRUNK	SD-96523-01				.009							

NOTES:

1. DRAINS FOR LAMPS FUSED ON THIS CKT ARE SHOWN ON CONNECTING OUT. TRK JACK CKT.
2. WHEN CONNECTED TO TRK BUSY RELAY CKT, ADD .010 TO 24V SIG BATTERY.
3. DRAINS FOR LAMPS FUSED ON THIS CKT ARE SHOWN ON CONNECTING ANSWERING JACK CKT.
4. A DENOTES +130V COIN OR SIGNAL.
5. DRAINS ARE PER 1300 OHM RELAY (SL).

LIST 2 CURRENT DRAINS FOR "A" SWBD
FOR DISTRIBUTING EQUIPMENT
AMPERES PER JOB FACTOR

TYPE OF EQUIPMENT OR CIRCUIT TITLE	CIRCUIT NUMBER	JOB FACTOR (EACH CIRCUIT UNLESS OTHERWISE SPECIFIED)	SEE NOTE NO.	BATTERY					COMB. NEG & 24V GRD		+130V SIG	
				NEG		24V			SIG	TLK	SIG	TLK
TRUNK	SD-95811-01		8		.100				.020	.100		
TRUNK	SD-95873-01					.028			.118			
TRUNK	SD-95704-01		1,2			.017			.038			
TRUNK	SD-95789-01		3	.264	.008	.167			.437	.008		
TRUNK	SD-95796-01		3	.184					.245			
TRUNK	SD-95851-01		4	.121					.125		A .021	A .021
TRUNK	SD-96164-01		8	.021					.020			
TRUNK	SD-96164-01		7						.022			
TRUNK	SD-96168-01		3			.008			.062			
TRUNK	SD-96216-01		1,2,3			.008			.190			
TRUNK	SD-96283-01		3			.040			.140			
TRUNK	SD-96301-01		3			.040			.060			
TRUNK	SD-96394-01		2,3			.061			.135			
TRUNK	SD-96395-01		2	.089					.120			
TRUNK	SD-96412-01		3			.017			.105			
TRUNK	SD-96459-01				.039	.011			.084			
TRUNK	SD-96522-01		1,3	NEG					.014			
TRUNK	SD-96523-01				.005				.043			

NOTES:

1. DRAINS FOR LAMPS FUSED ON THIS CKT ARE SHOWN ON CONNECTING OUT. TRK JACK CKT.
2. WHEN CONNECTED TO TRK BUSY RELAY CKT, ADD .413 TO 24V SIG BATTERY. WHEN CONNECTED TO IDLE TRK INDICATING CKT ADD .021 TO SIG GROUND.
3. DRAINS FOR LAMPS FUSED ON THIS CKT ARE SHOWN ON CONNECTING ANSWERING JACK CKT.
4. A DENOTES +130V COIN OR SIGNAL.
5. DRAINS ARE PER 1300 OHM RELAY (SL).
6. DRAINS ARE PER 34 OR 37 OHM SLEEVE.
7. DRAINS ARE PER 500 OHM SLEEVE.
8. WHEN CONNECTED TO IDLE TRK INDICATING CKT, ADD .007 FOR TLK GRD. WHEN CONNECTED TO TRAFFIC REGISTER CKT ADD .005 FOR TLK GRD.

TRAFFIC INFORMATION REQUIRED FOR CALCULATING POWER PLANT

FULL SELECTOR CIRCUITS	CIRCUIT NO.	CCS PER BUSY HOUR	
		INITIAL	ULTIMATE
<u>AUTOMATIC NUMBER IDENTIFICATION</u>	*		
<u>CONNECTORS</u>			
LOC OR COMB. 1, 2, OR 4 PTY	ALL TYPES		
LOC OR COMB. CODE RING.	ALL TYPES		
TOLL	ALL TYPES		
<u>FINDERS</u>			
LINE	ALL TYPES		
TRUNK	ALL TYPES		
<u>REPEATERS</u>	ALL TYPES		
<u>SELECTORS</u>	*		
<u>SELECTOR REPEATERS</u>	ALL TYPES		
<u>SWITCH</u>	SD-30868-01		
<u>TRUNKS</u>			
COIN	SD-31502-02		
MSG RATE	ALL TYPES		
OUT. SPL SERV TO CENT. "A" BD	ALL TYPES		
OUT. RCDG COMPL	ALL TYPES		
OUT. INCPT	SD-30990-01 & SD-32309-01		
CAMA OGT TO XER TDM	SD-32109-01 & SD-32244-01		
INCPT FOR USE WITH ANN MACH	SD-32202-01		
CAMA OGT	SD-32240-01		
ANI OGT	SD-32244-01 & SD-32245-01		
AUX	SD-32381-01		
OUT. FROM SEL MULT	SD-32311-01		
OUT. FROM COMB MULT	SD-32312-01		
OTHERS (INCL LONG TRUNKS)	ALL TYPES		

*SEE CURRENT DRAIN VALUES AS LISTED PER
CIRCUIT UNDER THIS HEADING ON SHEET -B1.

SD-31359-02-F1