### TABLE A
### TRAFFIC SEPARATION REGISTERS

| TRAFFIC SEPARATION RELAYS OPERATED DECODER INPUT ROW S2 11,12,13 OS 180-1 | GROUP RELAYS OPERATED IN DECODER | TS RELAYS OPERATED FROM CARD ROW S0 7,8, AND 9 OS 180-1 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TSO | TS1 | TS2 | TSO AND TS1 | TSO AND TS2 | TS1 AND TS2 | TSO, TS1, TS2 |
| | | REGISTER LEADS GROUNDED | | | | | | | |
| TSA | TSG1 | A1 | B1 | C1 | D1 | E1 | F1 | G1 |
| TSB | TSG2 | A2 | B2 | C2 | D2 | E2 | F2 | G2 |
| TSA AND TSB | TSG3 | A3 | B3 | C3 | D3 | E3 | F3 | G3 |
| TSA AND TSC | TSG4 | A4 | B4 | C4 | D4 | E4 | F4 | G4 |

### TABLE B
### TRUNK GROUP PEG COUNT AND OVERFLOW REGISTER CONTROL

| TP RELAY OPERATED ROW S0 11, 12, 13 OS 196-1 | PEG COUNT REGISTER LEAD GRD. OS 196-1 | OVERFLOW REGISTER LEAD GRD. OS 196-1 |
|---|---|---|
| 0 | PC0 | OF0 |
| 1 | PC1 | OF1 |
| 2 | PC2 | OF2 |
| 0 AND 1 | PC3 | OF3 |
| 0 AND 2 | PC4 | OF4 |
| 1 AND 2 | PC0 | NONE |
| 0,1 AND 2 | NONE | OF0 |

### TABLE C
### CLASS INFORMATION

| CLASS RECEIVING RELAYS READ BY MARKER FROM CARD T. ROW S0 22-29 OS 193-1 AND OS 164-1 | | CLASS REL.OPR. BY REC. RELAYS — OS-193-1 | CLASS SIG. TO SDR. TYPE OF PULSING ROW R3 0-4 OS-193-1 | CLASS CHECK ROW RO 16 OS-193-1 | CLASS SIG. TO SDR. TRUNK CONDITION ROW R3 5-9 OS 193-1 | CLASS CHECK ROW RO 17 OS 193-1 | CLASS SIG. TO SDR. TRUNK CONDITION ROW R3 6 OS 193-1 | CLASS CHECK ROW RO 18 OS 193-1 | CDLC RELAY READ BY MKR.FROM C.T. ROW R8 0 OS 193-1 | DLC CLASS SIG. TO SDR. ROW R3 7 OS 193-1 |
|---|---|---|---|---|---|---|---|---|---|---|
| CLT | CLU | | | | | | | | | |
| T0 | U4 AND U7 | CL0 | M | CLA | | | | | * | SEE NOTE |
| T0 | U0 AND U1 | CL1 | DC | CLA | | | | | CDLC | — |
| T0 | U0 AND U2 | CL2 | MF | CLA | | | | | * | SEE NOTE |
| T0 | U1 AND U2 | — | NOT USED | — | | | | | | |
| T0 | U0 AND U4 | — | | — | | | | | | |
| T0 | U1 AND U4 | CL5 | SXD | CLA | | | | | CDLC | — |
| T0 | U2 AND U4 | CL6 | SXD | CLA | XDD | CLB | | | CDLC | — |
| T0 | U0 AND U7 | CL7 | SXD | CLA | XSG | CLB | | | CDLC | — |
| T0 | U1 AND U7 | CL8 | LPD | CLA | SXR | CLB | | | * | SEE NOTE |
| T0 | U2 AND U7 | CL9 | LPD | CLA | | | | | * | SEE NOTE |
| T1 | U4 AND U7 | CL10 | LPD | CLA | XSG | CLB | | | * | SEE NOTE |
| T1 | U0 AND U1 | CL11 | LPD | CLA | 20C | CLB | | | * | SEE NOTE |
| T1 | U0 AND U2 | CL12 | LPD | CLA | XDDD | CLB | | | * | SEE NOTE |
| T1 | U1 AND U2 | CL13 | LPD | CLA | XDD | CLB | XSG | CLC | * | SEE NOTE |
| T1 | U0 AND U4 | CL14 | SXD | CLA | XDD | CLB | XSG | CLC | CDLC | — |

NOTE - THE MARKER NORMALLY GROUNDS THE DLC LEAD TO THE SENDER TO OPERATE DLC RELAY. IF CDLC IS OPERATED - DLC WILL BE NORMAL FOR CLASSES MARKED * CDLC OPERATION IS OPTIONAL

TOLL COMPLETING MARKERS

### TABLE D
### CONTINUITY AND DIGIT CONTROL

| CDC - CONTINUITY AND DIGIT CONTROL RECORDED IN DEC. FROM CARD TRNSL. TBL. REC. CARD ROW R8 25-29 OS 164-1 | DIGIT CONT. RECORDED IN MARKER FROM DECODER TBL.REC.CARD ROW R4 11-14 OS 176-1 | CONTINUITY CONTROL RECORDED IN MKR. FROM DECODER TBL.REC.CARD ROW R4 9-10 OS 176-1 | DIGIT CONT. TRANSMITTED FROM MARKER TO SENDER TBL.REC.CARD ROW R3 11-13 OS 194-1 | DIGIT CONT. CHECK MKR. - SDR. TRANSMITTING TBL.REC.CARD ROW RO 28 OS 194-1 |
|---|---|---|---|---|
| CDC4 AND CDC7 | NDG | CLCT | — | — |
| CDC0 AND CDC1 | NDG | MLCT | — | — |
| CDC0 AND CDC2 | ODG | CLCT | ODG | DGA |
| CDC1 AND CDC2 | ODG | MLCT | ODG | DGA |
| CDC0 AND CDC4 | 4DG | CLCT | 4DG | DGA |
| CDC1 AND CDC4 | 4DG | MLCT | 4DG | DGA |
| CDC2 AND CDC4 | 5DG | CLCT | 5DG | DGA |
| CDC0 AND CDC7 | 5DG | MLCT | 5DG | DGA |
| CDC1 AND CDC7 | NOT USED | CLCT | — | — |
| CDC2 AND CDC7 | NOT USED | CLCT | — | — |

NOTE - NDG OR DGA MUST BE INDICATED FOR REGULAR MARKER RELEASE

### TABLE E
### ROUTING INSTRUCTION

| ROUTING INSTRUCTION READING RELAYS AS READ BY DECODER ROW R8 20-25 OS 164-1 | DECODER ROUTING RELAYS OPERATED ROW R5 0-10 OS 167-1 | PRINCIPAL CITY ROUTING TAKEN FROM 3D CARD ROW R5 9, 10 OS 165-1 |
|---|---|---|
| RI4 AND RI7 | CC | PCR |
| RI0 AND RI1 | CR | PCR |
| RI0 AND RI2 | RR | PCR |
| RI1 AND RI2 | FOF | PCR |
| RI0 AND RI4 | FRO | PCR |
| RI1 AND RI4 | FMB | PCR |
| RI2 AND RI4 | FST | PCR |
| RI0 AND RI7 | NPCR | NPCR |
| RI1 AND RI7 | SPARE | |
| RI2 AND RI7 | SPARE | |

### TABLE F
### VARIABLE SPILLING CONTROL

| VARIABLE SPILLING CONTROL AS READ BY MARKER OR BY CODE MATCHING ROW R7 9-11 OS 176-1 | VARIABLE SPILLING CONTROL LEADS GROUNDED TO SENDER ROW R3 15-17 OS 194-1 | VARIABLE SPILL CONTROL CHECK RELAY OPERATED ROW RO 20 OS 194-1 |
|---|---|---|
| NSK | NSK | SKA |
| SK3 | SK3 | SKA |
| SK6 | SK6 | SKA |

### TABLE G
### FRAME IDENTIFICATION AND SELECTION

| FRAME IDENTIFICATION FREQUENCY COMBINATIONS ROW R3 22-29 OS 204-1 | | | FRAME NUMBER | INC. FRAME GROUP ROW S4 30-49 OS 205-1 | INC. FRAME ODD OR EVEN ROW S1 30-31 OS 205 | OUT. FRAME GROUP ROW S2 30-49 OS 205-1 | OUT. FRAME ODD OR EVEN ROW S1 32,33 OS 205 |
|---|---|---|---|---|---|---|---|
| FA | FB | FC | 0 | 0 | E | 0 | E |
| FA | FB | FD | 18 | 9 | E | 9 | E |
| FA | FB | FE | 6 | 3 | E | 3 | E |
| FA | FB | FF | 12 | 6 | E | 6 | E |
| FA | FB | FG | 20 | 10 | E | 10 | E |
| FA | FB | FH | 34 | 17 | E | 17 | E |
| FA | FC | FD | 2 | 1 | E | 1 | E |
| FA | FC | FE | 14 | 7 | E | 7 | E |
| FA | FC | FF | 8 | 4 | E | 4 | E |
| FA | FC | FG | 22 | 11 | E | 11 | E |
| FA | FC | FH | 36 | 18 | E | 18 | E |
| FA | FD | FE | 17 | 8 | 0 | 8 | 0 |
| FA | FD | FF | 5 | 2 | 0 | 2 | 0 |
| FA | FE | FF | 11 | 5 | 0 | 5 | 0 |
| FA | FE | FH | 25 | 12 | 0 | 12 | 0 |
| FA | FF | FH | 27 | 13 | 0 | 13 | 0 |
| FB | FC | FE | 10 | 5 | E | 5 | E |
| FB | FC | FE | 4 | 2 | E | 2 | E |
| FB | FC | FF | 16 | 8 | E | 8 | E |
| FB | FC | FG | 26 | 13 | E | 13 | E |
| FB | FC | FH | 38 | 19 | E | 19 | E |
| FB | FD | FE | 9 | 4 | 0 | 4 | 0 |
| FB | FD | FF | 15 | 7 | 0 | 7 | 0 |
| FB | FD | FG | 32 | 16 | E | 16 | 0 |
| FB | FE | FF | 3 | 1 | 0 | 1 | 0 |
| FB | FE | FG | 28 | 14 | E | 14 | E |
| FB | FE | FH | 23 | 11 | 0 | 11 | 0 |
| FB | FF | FG | 30 | 15 | E | 15 | E |
| FC | FD | FE | 13 | 6 | 0 | 6 | 0 |
| FC | FD | FF | 7 | 3 | 0 | 3 | 0 |
| FC | FD | FG | 24 | 12 | E | 12 | E |
| FC | FE | FF | 19 | 9 | 0 | 9 | 0 |
| FC | FE | FH | 21 | 10 | 0 | 10 | 0 |
| FD | FE | FF | 1 | 0 | 0 | 0 | 0 |
| FD | FE | FG | 35 | 17 | 0 | 17 | 0 |
| FD | FE | FH | 31 | 15 | 0 | 15 | 0 |
| FD | FF | FG | 37 | 18 | 0 | 18 | 0 |
| FD | FF | FH | 29 | 14 | 0 | 14 | 0 |
| FE | FF | FG | 39 | 19 | 0 | 19 | 0 |
| FE | FF | FH | 33 | 16 | 0 | 16 | 0 |

TROUBLE ANALYSIS DATA

CHARTS

NO. 4A TOLL

RM3-10

ORDER AS BSP ITEM MP-11768