RIDERSHIP BY LINE SEGMENT
(RBLS)

VERSION 1.2

USER'S GUIDE

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SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT

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RIDERSHIP BY LINE SEGMENT COMPUTER PROGRAM

USER'S GUIDE

TABLE OF CONTENTS

		PAGE
1.	SUMMARY	1
2.	LOGON SEQUENCE	2
3.	LINE SEGMENT SPECIFICATION	4
4.	ON-LINE PROCESSING OPTIONS	18
5.	PLOTTING CAPABILITIES	26
6.	LOGOFF SEQUENCE	34
7.	EXAMPLES	35
8.	FUTURE ENHANCEMENTS	51

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1.0 SUMMARY

The Ridership by Line Segment Program (RBLS) is a computer program which is used to summarize the data regarding ridership on lines operated by SCRTD.

The RBLS Program is a powerful and useful tool. It features interactive on-line processing; it interacts with the ride check processing database and facilitates quick and easy access to vital stop-by-stop ridership statistics such as passengers on, passengers off, passengers on-board, in-service bus hours and bus miles of service on any selected segment of a bus line. The user can further constrain the desired statistics by time-of-day and selected services available on a line, such as local vs limited operation, short lines etc. Another feature of the RBLS Program is that it is geared towards non-data processing oriented personnel. It can be used by planners, schedule makers, etc. The program is menu driven. A series of prompts guide the user through various operations until the final output, a summary report of ridership data by stops, is produced. This version of RBLS Program allows the user to generate a computer plot showing the ridership statistics on the selected segment. It is also possible to save the final summary report for subsequent downloading to a Personal Computer (PC).

This manual includes step-by-step instructions for executing the RBLS Program, samples of each screen that are included in the program, and examples of program execution. Those wishing to implement this package on their computing system can obtain the Source Code by contacting:

Mr. Keith Killough
Manager, Planning Systems
Planning Department
SCRTD
425 South Main Street
Los Angeles, CA 90013
Telephone (213) 972-3469

2.0 LOGON SEQUENCE

In this and subsequent sections, it has been assumed that the user has a basic knowledge of the IBM 3279 keyboard, Program Function (PF) keys and Edit Function of the IBM TSO/ISPF.[1]

The steps involved in invoking the Ridership by Line Segment Program are as follows:

1. The user should obtain a valid Logon Identification Code and a Password and should logon to the District's IBM computing facilities.

2. After logon is complete the system will respond with a READY prompt. The user should then type SVP and press the enter key.

3. The Service Analysis Programs Master Menu Panel will now appear. On this panel, Option Number 20 should be selected by typing a "20" at the designated location and then pressing the enter key.

This completes the Logon Sequence and access to the RBLS package.

---

[1] A document entitled: TSO/ISPF FOR THE END USER provides a good working knowledge of these topics. This document can be obtained from Service Analysis staff.

SERVICE ANALYSIS PROGRAMS

OPTION ===> _

1 - RIDE CHECK PROCESSING	(SVALINE)	11 - AREA ACCOUNTS REPORTS	(SVAWIDE)
2 - PRINT PAPER CHECK FORM	(SVALSTT)	12 - LINE LEVEL REPORTS	(SVALRPT)
3 - MISC. LINE STATUS JOB	(SVAPREP)	13 - MISC. UTILITIES	(SVAMISC)
4 - PATRONAGE REPORTING	(SVABRDG)	14 - HAND-HELD PROJECT JOBS	(SVAHHD)
5 - FARE SURVEY SERIES A	(SVACLST)	15 - UNIVAC TO IBM CONV.	(SVAFILES)
6 - FARE SURVEY SERIES B	(SVATRIP)	16 - SERVICE CONSUMED SE15	(SVASE15)
7 - FARE SURVEY SERIES C	(SVASMPL)	17 - RIDE CHECK STORAGE	(SVATAPE)
8 - FARE SURVEY SERIES D&E	(SVAFARE)	18 - LINE PERFORMANCE TREND	(SVAPERF)
9 - SE15 & MISC REPORTING	(SVAGOVT)	19 - SERVICE ANALYSIS PLOT	(SVAPLOT)
10 - TITLE 6 REPORTING	(SVATTL6)	20 - RIDERSHIP BY SEGMENT	(SVARBLS)

X = EXIT

SELECT THE DESIRED OPTION THEN PRESS ENTER

SERVICE ANALYSIS PROGRAMS - MAIN MENU

3.0 LINE SEGMENT SPECIFICATION

3.1 Specifying the Line Number and Day-of-Week to be Analyzed.

The purpose of the first data entry panel is to designate the line to be analyzed and the day-of-week (i.e., Daily, Saturday, Sunday) for analysis. The return key is used to move the cursor to locations where the data is to be entered. (See the Data Entry Panel Number 1). After entering the data at specified locations, the enter key should be pressed.

If the desired day-of-week for the requested line is not available, a message panel will appear that states that "THE DAY OF THE WEEK REQUESTED IS NOT CURRENTLY AVAILABLE. PLEASE CONTACT THE SERVICE ANALYSIS STAFF FOR INFORMATION". (See the Message Panel Number 1). This completes specification of the Line Number and day-of-week to be analyzed.

```
=================================================================================
                          SERVICE ANALYSIS
MRPAKK  -  SVAR910   RIDERSHIP BY LINE SEGMENT    87/03/21 -04:25
                          LINE FILE SELECTION
=================================================================================

ENTER THE FOLLOWING LINE FILE INFORMATION :

   LINE NUMBER   = ___     (001-999 Line number to be checked)

      DAY TYPE   = __      (DA=Daily,SA=Saturday,SU=Sunday)

Please note that if the line number contains  less than three digits
then leading zeros should be included.  The Day Type default is  DA
=================================================================================

PRESS ENTER TO CONTINUE OR PF3/15 TO EXIT FROM RBLS
```

DATA ENTRY PANEL NUMBER 1 (MAIN MENU)

```
---------------------------------------------------------------------------------
                          *      SERVICE ANALYSIS       *
MRPAKK  -  SVAR902        *  RIDERSHIP BY LINE SEGMENT  *  87/03/20 - 04:30
                          *       PROCESS ERROR         *
---------------------------------------------------------------------------------

*********************************************************************************
*                                                                               *
*    THE DAY OF THE WEEK REQUESTED IS NOT CURRENTLY AVAILABLE.                  *
*                                                                               *
*    PLEASE CONTACT THE SERVICE ANALYSIS STAFF FOR INFORMATION.                 *
*                                                                               *
*                                                                               *
*********************************************************************************

                PRESS ENTER TO RETURN TO MAIN MENU
                OR PRESS PF3/15 TO EXIT RBLS
```

MESSAGE PANEL NUMBER 1

3.2 Specifying the Line Direction to be Analyzed.

The purpose of the second data entry panel is to select the direction of the line to be analyzed (i.e. north, east, south, west, round trip) (See Data Entry Panel Number 2). The return key is used to move the cursor to locations where data is to be entered. The enter key should be pressed after data has been entered.

If one or more of the data elements for the desired line direction are missing in the database, a message panel will appear that states that "ONE OR MORE OF THE DATA ELEMENTS (HEAD, ROUT, DATA) ARE MISSING - PLEASE CONTACT THE SERVICE ANALYSIS STAFF FOR HELP". (See the Message Panel Number 2). This completes specification of the line direction to be analyzed.

```
                    ***********************************
                    *      SERVICE ANALYSIS           *
SVAR920             *  RIDERSHIP BY LINE SEGMENT      *          04:32
                    *     DIRECTION SELECTION         *
                    ***********************************

SELECT AVAILABLE DIRECTION CODE = __

            THE FOLLOWING CHECK FILES ARE AVAILABLE:

                    LINE NUMBER = ___
                            DAY = __
                     CHECK DATE = ______
                     DIRECTIONS = __

          (1=NORTH,2=EAST,3=SOUTH,4=WEST,5=ROUND TRIP)

==========================================================================

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO PREVIOUS MENU
```

DATA ENTRY PANEL NUMBER 2

```
--------------------------------------------------------------------------
                    *      SERVICE ANALYSIS           *
MRPAKK  -  RBLS3X   *  RIDERSHIP BY LINE SEGMENT      *  03/21/87 - 04:32
                    *       PROCESS ERROR             *
--------------------------------------------------------------------------

*****************************************************************************
*                                                                           *
*    ONE OR MORE OF THE DATA ELEMENTS ( HEAD,ROUT,DATA )  ARE               *
*                                                                           *
*    MISSING PLEASE CONTACT THE SERVICE ANALYSIS STAFF FOR HELP.            *
*                                                                           *
*                                                                           *
*****************************************************************************

                PRESS ENTER TO RETURN TO MAIN MENU
                OR PRESS PF3/15 TO RETURN TO READY
```

MESSAGE PANEL NUMBER 2

3.3 Specifying the PC Download Option.

The purpose of the third data entry panel is to specify whether the final ridership report should be saved as a data file on the mainframe computing system for subsequent downloading to a PC for spread sheet analysis. The default option is NO. If a user desires to save the final report, the yes option should be specified at the cursor location. This completes the PC Download Option. After the enter key has been pressed, a message panel will appear that states "LOADING FILES. PROCESSING PLEASE WAIT". After a few seconds "PRESS ENTER" prompt will appear. The enter key should then be pressed.

```
MRPAKK - SVARLOT        SERVICE ANALYSIS              03/23/87 - 01:39
                        RIDERSHIP BY LINE SEGMENT
                        LOTUS SPREAD SHEET OPTION

WOULD YOU LIKE TO SAVE YOUR FINAL REPORT FOR DOWNLOADING TO THE PC ?

___  SPECIFY YES OR NO

note: please do not specify the yes option +unless you really want to
      download the final report

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO MAIN MENU
```

DATA ENTRY PANEL NUMBER 3

3.4 Specifying the Line Segment to be Analyzed.

The purpose of the fourth data entry panel is to select options which are used to specify stop range, service type, time range, and display/print report options for the line segment to be analyzed. (See Data Entry Panel Number 4). Only one option can be processed at a time. The data is entered at the cursor location.

```
                    ***********************************
*********************      SERVICE ANALYSIS      *********************
*   SVAR930            RIDERSHIP BY LINE SEGMENT            01:40    *
*********************      SEGMENT  SELECTION    *********************
                    ***********************************

SELECT SEGMENT DEFINITION OPTION ==> _

THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:

1 = DEFINE STOP RANGE  ( PRESENT - START STOP =  ____   END STOP =  ____  )

2 = SELECT SERVICE TYPES

3 = DEFINE TIME RANGE  ( START TIME = ____    END TIME = ____   )

4 = DISPLAY/PRINT REPORT

Please note that  Defaults are All Stops, All Services, All Trips
=================================================================================
    PRESS ENTER TO PROCESS OR SELECT OPTION 4 TO CONTINUE TO NEXT
            PANEL OR PRESS PF3/15 TO EXIT RBLS
```

DATA ENTRY PANEL NUMBER 4

3.4.1 Option 1 - Define Stop Range.

The purpose of Option 1 is to designate the range of bus stops to be analyzed. This option is selected by entering a "1" in Data Entry Panel Number 4 and then pressing the enter key. An instruction panel will appear. (See Instruction Panel Number 1).

After reading the instructions, the enter key should be pressed. A panel for stop selection will appear. (See Stop Selection Data Entry Panel Number 5).

After specifying the first (F) and last (L) stop, as instructed on the preceding screen, the PF3 key should be pressed. It should be noted that the first and the last stop are specified one at a time. That is, after selecting the first stop, enter key should be pressed. The last stop is specified on the second panel that appears after enter key has been pressed. After specifying the last stop, the PF3 key should be pressed. The segment selection option menu (Data Entry Panel Number 4) will re-appear. This completes the selection of stops on the line segment to be analyzed. If a Stop Range is not selected, the system assumes that the entire line needs to be analyzed.

```
-----------------------------------------------------------------------------
                        *      SERVICE ANALYSIS        *
  MRPAKK  -  SVAR93A    *  RIDERSHIP BY LINE SEGMENT   *   03/23/87 - 01:45
                        *      STOP RESTRICTION        *
-----------------------------------------------------------------------------
```

STOP RESTRICTION INSTRUCTIONS:

1. USING NORMAL ISPF EDITOR COMMANDS, MOVE THE CURSOR TO THE ROW CONTAINING FIRST STOP YOU WANT TO RESTRICT YOUR ANALYSIS TO. IN COLUMN 1 (LEFT) , TYPE THE UPPERCASE LETTER "F" AND PRESS ENTER.

2. AS IN STEP 1, MOVE THE CURSOR TO THE LAST STOP YOU WISH TO RESTRICT YOUR ANALYSIS TO. IN COLUMN 1 ENTER THE UPPERCASE LETTER "L" AND PRESS ENTER.

3. PRESS PF3 OR PF15 TO RETURN TO PREVIOUS MENU.

PRESS ENTER TO CONTINUE

INSTRUCTION PANEL NUMBER 1

```
------------------  RIDERSHIP BY LINE STOP LIST ------- LINE 000001 COL 001 080
COMMAND ===>                                          SCROLL ===> CUR
                                SVAR931
1 <---F=START L=STOP                              PF8=DOWN PF7=UP PF3=END
V ***********************************************************************
V  STOP                        STOP                          SERVICES
V  NO.                    ON            AT                   USING STOP
F  790                 VIA BOTH      ROUTES
   795
   800               * 11TH ST       GEORGIA                 1111011
   820                 PICO          GEORGIA                 1111011
   830                 FIGUEROA      PICO                    1111011
   840                 FIGUEROA      12TH ST                 1111011
   850                 12TH ST       FLOWER                  1111011
   860                 12TH ST       GRAND                   1111011
   870                 12TH ST       OLIVE                   1111011
   880                 12TH ST       BROADWAY                1111011
   890                 MAIN          12TH ST                 1111011
   900                 MAIN          11TH ST                 1111011
   910                 MAIN          OLYMPIC                 1111011
   920                 SPRING        8TH ST                  1111011
   930               * SPRING        8TH-7TH                 1111111
   920                 SPRING        6TH ST                  1111111
   920                 SPRING        6TH-5TH                 1111111
```

DATA ENTRY PANEL NUMBER 5

(SAMPLE DATA HAS BEEN INCLUDED IN THIS PANEL)

3.4.2 Option 2 - Select Service Types.

The purpose of Option 2 is to specify service types for the segment to be analyzed (i.e., limited, express).

This option is selected by entering a "2" in Data Entry Panel Number 4 and then pressing the enter key. An instruction panel will appear that explains service restriction instructions. (See Instruction Panel Number 2).

After reading instructions, the enter key should be pressed. A panel will appear that shows header cards (or different service types). (See Data Entry Panel Number 6). The return key is used to move cursor to a specified service types and a "S" is input in the left most column as instructed in the preceding panel. The enter key is then pressed. The process is repeated for each service type to be included in the analysis. The process is terminated by pressing the PF3 key. If services are not selected using this method, the system assumes that all services need to be analyzed.

This completes selection of the service types to be analyzed.

```
-----------------------------------------------------------------------------
                        *      SERVICE ANALYSIS        *
  MRPAKK  -  SVAR93B    *  RIDERSHIP BY LINE SEGMENT   *  03/23/87 - 01:50
                        *    SERVICE RESTRICTION       *
-----------------------------------------------------------------------------
```

SERVICE RESRICTION INSTRUCTIONS:

1. USING NORMAL ISPF EDITOR COMMANDS, MOVE THE CURSOR TO THE ROW CONTAINING SERVICE TYPE YOU WISH TO INCLUDE IN YOUR ANALYSIS. IN COLUMN 1 (LEFT) , TYPE THE UPPERCASE LETTER "S" AND PRESS ENTER. REPEAT THE PROCESS FOR EACH SERVICE SELECTED.

2. DEFAULT IS ALL SERVICES SELECTED.

3. PRESS PF3 OR PF15 TO RETURN TO PREVIOUS MENU.

PRESS ENTER TO CONTINUE

INSTRUCTION PANEL NUMBER 2

```
------------------- RIDERSHIP BY LINE SEGMENT HEADER -- LINE 000001 COL 001 080
COMMAND ===>                    SVAR932                SCROLL ===> PAGE

  SERVICE                          THE DESCRIPTION OF THE BRANCH
   NUM                                   IN THE HEADER CARD
   1      11TH AND GEORGIA TO EL MONTE, VIA GENERAL HOSP O P CLINIC
   2      11TH AND GEORGIA TO EL MONTE
   3      11TH AND GEORGIA TO SYBIL BRAND, VIA GENERAL HOSP O P CLINIC
   4      11TH AND GEORGIA TO SYBIL BRAND
   5      7TH AND SPRING TO SYBIL BRAND
   6      11TH AND GEORGIA TO SAN GABRIEL BLVD, VIA GENERAL HOSP O P CLINIC
   7      11TH AND GEORGIA TO EL MONTE, VIA GENERAL HOSP O P CLINIC
```

DATA ENTRY PANEL NUMBER 6

(SAMPLE DATA HAS BEEN INCLUDED IN THIS PANEL)

3.4.3 Option 3 - Define the Time Period for Analysis.

The purpose of Option 3 is to specify the time period for analysis. This option is selected by entering a "3" in Data Entry Panel Number 4 and pressing the enter key. A panel will appear that offers two choices for this option. (See Data Entry Panel Number 7). Choice 1 is to select trips within time slice and Choice 2 is to select stops within time slice. The implications of selecting Choice 1 vs. Choice 2 are as follows: If Choice 1 is selected then a bus trip is qualified for reporting purposes as long as it crosses the first selected stop within the time period of analysis. If Choice 2 is selected then elapsed time at each and every stop within the segment is analyzed in determining whether the ons/offs should be accumulated for reporting purposes. After choice is specified by inputting a "1" or a "2" at the designated location, the return key is used to move the cursor to the point where designated start time should be entered. After start time is input, the cursor will move to the point where designated end time should be entered. Now the end time should be input. The enter key should then be pressed. The segment selection options menu will re-appear. (Data Entry Panel Number 4). This completes specification of time period for analysis. The default to this option is the entire day, that is, all trips are selected for reporting purpose. Please note that starting and ending times on Data Entry Panel Number 7 are specified as military times. Military time is expressed as hours and minutes and is extended to thirty hours to cover service which begins before midnight and continues until 6am the following day.

```
                    ********************************
*********************      SERVICE ANALYSIS      ********************
*   SVAR933            RIDERSHIP BY LINE SEGMENT            08:30   *
*********************       TIME SELECTION       ********************
                    ********************************

SELECT TIME SLICE OPTION ==>  _

THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:


1 = SELECT TRIPS WITHIN TIME SLICE.

2 = SELECT STOPS WITHIN TIME SLICE.

        (ENTER TIME RANGE BELOW --- 00:00 - 30:00 HRS)

   ( START TIME =  __ : __ , END TIME =  __ : __    - HH:MM )
=================================================================
   PRESS ENTER TO PROCESS OR PRESS PF3/15 TO RETURN TO PREVIOUS MENU
```

DATA ENTRY PANEL NUMBER 7

3.4.4 Process Selection.

The purpose of Option 4 is to display the data that was requested for analysis and to print the summary report. This option is selected by entering a "4" at the designated location in Data Entry Panel Number 4 and then pressing the enter key. A panel will appear that lists two options: 1) Batch Processing and 2) On-line Processing. (See Data Entry Panel Number 8).

Please note that Option 2 (On-line Processing) is the only option available at this time. If Batch Processing Option is selected, a message panel will appear which states that this option is not available. (See Message Panel Number 3). On-line processing option is selected by specifying a "2" in Data Entry Panel Number 8 and then pressing the enter key. A message will appear that states "Selecting Data. Please Wait", then the screen will prompt "Press Enter". The enter key should then be pressed.

SVAR940	SERVICE ANALYSIS RIDERSHIP BY LINE SEGMENT OUTPUT SELECTION	08:33

SELECT OPTION = _

THE FOLLOWING OUTPUT SELECTION OPTIONS ARE AVAILABLE:

1 = BATCH PROCESS - SUBMIT A BATCH JOB TO OBTAIN THE FINAL RESULTS

2 = ON-LINE - PROCESS ON LINE AND SEND RESULTS TO THE TERMINAL

(*NOTE - OPTION 2 MAY REQUIRE CONSIDERABLE PROCESSING TIME)

PRESS ENTER TO CONTINUE OR PRESS PF3/15 TO RETURN TO PREVIOUS MENU

DATA ENTRY PANEL NUMBER 8

MRPAKK - SVAR950	SERVICE ANALYSIS RIDERSHIP BY LINE SEGMENT PROCESS ERROR	03/23/87 - 01:58

BATCH PROCESSING AS REQUESTED IS NOT CURRENTLY AVAILABLE.

PLEASE CONTACT THE SERVICE ANALYSIS STAFF FOR INFORMATION.

PRESS ENTER TO RETURN TO PREVIOUS MENU
OR PRESS PF3/15 TO RETURN TO TSO

MESSAGE PANEL NUMBER 3

4.0 ON-LINE PROCESSING OPTIONS

At the completion of processing initiated by Data Entry Panel Number 8, a panel will appear that lists the options for the On-line processing. (See Data Entry Panel Number 9). The four options are: 1) Display Data, 2) Display Stops, 3) Display Report, and 4) Plot the Data Selected.

SVAR960 SERVICE ANALYSIS 02:05
RIDERSHIP BY LINE SEGMENT
ON-LINE SELECTION

SELECT ON-LINE OPTION = _

THE FOLLOWING ON-LINE OPTIONS ARE AVAILABLE:

1 = DISPLAY DATA

2 = DISPLAY STOPS

3 = DISPLAY REPORT

4 = PLOT THE DATA SELECTED

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO TSO

DATA ENTRY PANEL NUMBER 9

4.1 Option 1 - Display Data.

The purpose of this option is to display trip level data requested for analysis. To select this option, a "1" is entered at the designated location in Data Entry Panel Number 9 and then the enter key is pressed. A Display Data Panel will appear. This panel shows the on/off and passengers on-board activity by stop for trips qualified for the analysis. After browsing the data, the PF3 key should be pressed to return to the On-line selection menu. (Data Entry Panel Number 9).

---------- RIDERSHIP BY LINE DATA ----------
COMMAND ===>_ SCROLL ===>_

SVAR972

PF8=DOWN PF7=UP PF3=END

TRIP	STOP	SRV	TIME SCHED	ON	OFF	ONBOARD
1460	800	1	734	0	0	10
1460	820	1	737	1	0	11
1460	890	1	741	1	0	12
1460	900	1	742	1	0	13
1460	910	1	743	1	0	14
1460	920	1	743	3	0	17

DISPLAY DATA PANEL

(SAMPLE DATA HAS BEEN INCLUDED IN THIS PANEL)

4.2 Option 2 - Display Stops.

The purpose of this option is to display the stops requested for analysis. Display Stops Option is selected by specifying a "2" in the Data Entry Panel Number 9 and then pressing the enter key. A Display Stops Panel will appear. This panel shows the stops along the segment and displays "1" or "0" to indicate whether a specific service is available at a stop or not. The PF3 key should be pressed to return to the On-line selection menu (Data Entry Panel Number 9).

```
--------------------RIDERSHIP BY LINE STOP LIST --------LINE 000001 COL 001 080
COMMAND ===>                                                SCROLL ===> CUR
                                  SVAR931
1 <---F=START L=STOP                                PF8=DOWN PF7=UP PF3=END
V ***************************************************************************
V  STOP                      STOP                                SERVICES
V  NO.                    ON              AT                    USING STOP
   790                 VIA BOTH        ROUTES
   795
   800               * 11TH ST         GEORGIA                 1111011
   820                 PICO            GEORGIA                 1111011
   830                 FIGUEROA        PICO                    1111011
   840                 FIGUEROA        12TH ST                 1111011
   850                 12TH ST         FLOWER                  1111011
   860                 12TH ST         GRAND                   1111011
```

DISPLAY STOPS PANEL

(SAMPLE DATA HAS BEEN INCLUDED IN THIS PANEL)

4.3 Option 3 - Display Report.

This option provides the ridership statistics (in a report form) for the segment requested for analysis. The Display Report Option is selected by entering a "3" in Data Entry Panel Number 9 and then pressing the enter key. A message will appear that states "Report Processing. Please Wait". This process usually takes one or two minutes. The enter key should be pressed at the prompt and a Ridership by Line Stop Report is displayed for the user specified segment. (See Display Report Panel).

The report will show the stop number, the stop location, the number of passengers boarding and alighting at each stop, the number of passengers on board and number of bus trips serving each stop. The maximum load point is indicated by an asterisk. The total ons and total offs, total in-service bus hours and total in-service bus miles operated on the segment are displayed as last three rows in the table. Please note that bus hours and bus miles are displayed in tenths of hours and miles.

This completes the discussion on how to display the selected data and final report for the line segment to be analyzed.

Printing Summary Report

A hard copy of the report, as shown on the screen, can be printed by pressing the appropriate key. This key has the following symbol:

After viewing the summary report, PF3/15 key should be pressed.

---------- RIDERSHIP BY LINE STOP REPORT----------
COMMAND ===>_ SCROLL ===> CUR

SVAR974

PF8=DOWN PF7=UP PF3=END

STOP NO.	STOP ON	STOP AT	PASSENGERS ON	OFF	ON-BOARD	TRIPS
800	11TH ST	GEORGIA	9	0	9	24
820	PICO	GEORGIA	4	0	13	24
830	FIGUEROA	PICO	14	0	27	24
840	FIGUEROA	12TH ST	6	0	33	24
850	12TH ST	FLOWER	5	0	38	24
860	12TH ST	GRAND	1	0	39	24
870	12TH ST	OLIVE	1	0	39	24
880	12TH ST	BROADWAY	14	3	50	24
890	MAIN	12TH ST	11	3	58	24
9999	== TOTAL ON/OFF=>		64	6	0	0
9998	== TOTAL VHT*10=>		132	0	0	0
9997	== TOTAL VMT*10=>		1589	0	0	0

DISPLAY REPORT PANEL

(SAMPLE DATA HAS BEEN INCLUDED IN THIS PANEL)

4.4 Option 4 - Plot the Data Selected.

This option is used to bypass the viewing of trip level data, stops along the segment and on/off/on-board report, and to go directly to the plotting option panels described in the following section. This option can be selected by specifying a "4" in Data Entry Panel Number 9.

SVAR960 SERVICE ANALYSIS 02:05
RIDERSHIP BY LINE SEGMENT
ON-LINE SELECTION

SELECT ON-LINE OPTION = _

THE FOLLOWING ON-LINE OPTIONS ARE AVAILABLE:

1 = DISPLAY DATA

2 = DISPLAY STOPS

3 = DISPLAY REPORT

4 = PLOT THE DATA SELECTED

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO TSO

DATA ENTRY PANEL NUMBER 9

5.0 PLOTTING CAPABILITIES

Using the RBLS package, it is possible to summarize the selected segment data in a graphical form as well. Instructions for generating the plot data set are provided in the following sections.

5.1 Specifying the Continue Option.

At the conclusion of viewing the Ridership by Line Stop Report, the user has options to: (1) create a plot on a Calcomp Plotter (2) analyze a different segment on the selected line (3) exit the RBLS Package and return to TSO and (4) return to Main Menu (Data Entry Panel Number 1) to analyze a different line.

If a plot of the ridership data for the selected segment is desired, a "1" should be entered at the designated location in Data Entry Panel Number 10 and the enter key should then be pressed.

If the user wishes to analyze a different segment on the selected line, a "2" should be specified in the Data Entry Panel Number 10 and the enter key should be pressed. The Data Entry Panel Number 4 will re-appear for the segment specification.

If the user wishes to exit RBLS then a "X" should be specified in the Data Entry Panel Number 10 and the enter key should be pressed.

The user can return to the Main Menu, in order to analyze a new line, by simply pressing the PF3/15 key.

At the conclusion of the execution of Data Entry Panel Number 10, if the user had previously specified saving the Ridership by Line Stop Report for subsequent down loading to a PC, the following messages will be displayed:

>>>> NOTE DOWN THE NAME OF THE FOLLOWING LOTUS FILES <<<<

Userid.Lnnn.LOTUS.TEXT.Shhmmss
Userid.Lnnn.LOTUS.DATA.Shhmmss

Where Userid is the logon ID of the user and hhmmss is the time in hours: minutes: seconds format when the files were created. These files can then be down loaded to a floppy diskette for subsequent spread sheet analysis.

SVAR965 SERVICE ANALYSIS 02:20
RIDERSHIP BY LINE SEGMENT
PLOT OPTION

SELECT CONTINUE OPTION = _

THE FOLLOWING OPTIONS ARE AVAILABLE:

1 = PLOT THE DATA SELECTED OR SHOWN IN THE PREVIOUS REPORT

2 = ANALYZE A DIFFERENT LINE SEGMENT

X = EXIT RBLS AND RETURN TO TSO

PRESS ENTER TO PROCESS OR PF3/15 TO RETURN TO MAIN MENU

DATA ENTRY PANEL NUMBER 10

5.2 Specifying the Plotting Options.

If the plot option was selected by entering a "1" in the Data Entry Panel Number 10 or a "4" in the Data Entry Panel Number 9, the system will display Data Entry Panel Number 11. Using this data entry panel, the user specifies the type of plot and the choice of plotting medium. The RBLS package can generate two types of plots, namely: (1) Plot showing Passengers On, Passengers Off, Passengers On-board and Transit Capacity[2] at each stop in the selected segment, (2) Plot showing, by 15 minute intervals, Passengers On, Passengers Off, Passengers On-board and Transit Capacity. The choice is specified by entering a "1" or a "2" in the Data Entry Panel Number 11. There are two choices of plotting medium as well. The user can either generate a plot on a continuous roll or the plots can be drawn as a series of 8.5" x 11" sheets. This choice is also specified by entering a "1" or a "2" in the Data Entry Panel Number 11. After specifying the choices on Data Entry Panel Number 11, the enter key should be pressed.

While the plot data set is being created, the system also displays at the terminal the data values either by stop or by 15 minute time slice that will be plotted.

[2] In this version of the RBLS Package, the transit capacity is calculated by assuming 43 seats on each bus serving each stop in the specified segment.

```
                    ********************************
*********************      SERVICE ANALYSIS      *********************
*   SVAR966            RIDERSHIP BY LINE SEGMENT            08:50    *
*********************       PLOTTING OPTIONS     *********************
                    ********************************
SPECIFY THE TYPE OF PLOT DESIRED ==>  _

THE FOLLOWING TYPES OF PLOTS CAN BE GENERATED:

1 = PLOT SHOWING PASSENGERS ON/OFF, ON-BOARD BY STOP
2 = PLOT SHOWING PASSENGER LOADING BY TIME-OF-DAY

SPECIFY THE PAGING OF PLOT OUTPUT ==>  _

THE FOLLOWING PAGING OPTIONS ARE AVAILABLE:

1 = PLOT ON A CONTINUOUS ROLL OF PAPER
2 = PLOT AS 8.5 x 11 INCH  SHEETS
```

PRESS ENTER TO PROCESS OR PRESS PF3/15 TO RETURN TO PREVIOUS MENU

DATA ENTRY PANEL NUMBER 11

5.3 Specifying the Plot Tape Creation Option.

At the completion of plot data set creation, the system will display Data Entry Panel Number 12. In this data entry panel, the user will specify whether the plot data set created in the previous step should be copied to a tape[3] for subsequent plotting on a Calcomp Plotter or not. The choice is specified by entering a "yes" or a "no" followed by pressing of the enter key. This completes the selection and creation of RBLS plots. After Data Entry Panel Number 11, the Data Entry Panel Number 1 will again be displayed. The user can then analyze a different line segment or exit the RBLS Package. Samples of plots generated using RBLS are shown in Exhibit 1 and Exhibit 2.

```
MRPAKK - SVAR980        SERVICE ANALYSIS                    87/03/23 - 02:24
                        RIDERSHIP BY LINE SEGMENT
                        CALCOMP TAPE JOB OPTION

WOULD YOU LIKE TO SAVE YOUR PLOT FILES FOR SUBSEQUENT PLOTTING ON A
CALCOMP PLOTTER ?

___  SPECIFY YES OR NO

note: please do not specify yes option unless you previously
      selected the plot option. After terminating the RBLS session,
      use ISPF 9.h option to determine the volume serial of tape
      that contains your plot(s). Follow tape charge-out procedure.

PRESS ENTER TO CONTINUE OR PF3/15 TO EXIT RBLS AND RETURN TO TSO
```

DATA ENTRY PANEL NUMBER 12

[3] The computing facilities at the District allow plotting of plot files stored either on-line or one a tape. If a user wished to store a plot file on-line, he/she should seek the approval of Manager, Planning Systems.

THE FOLLOWING TWO PAGES SHOW TYPES OF PLOTS GENERATED USING THE RIDERSHIP BY LINE SEGMENT (RBLS) PACKAGE:

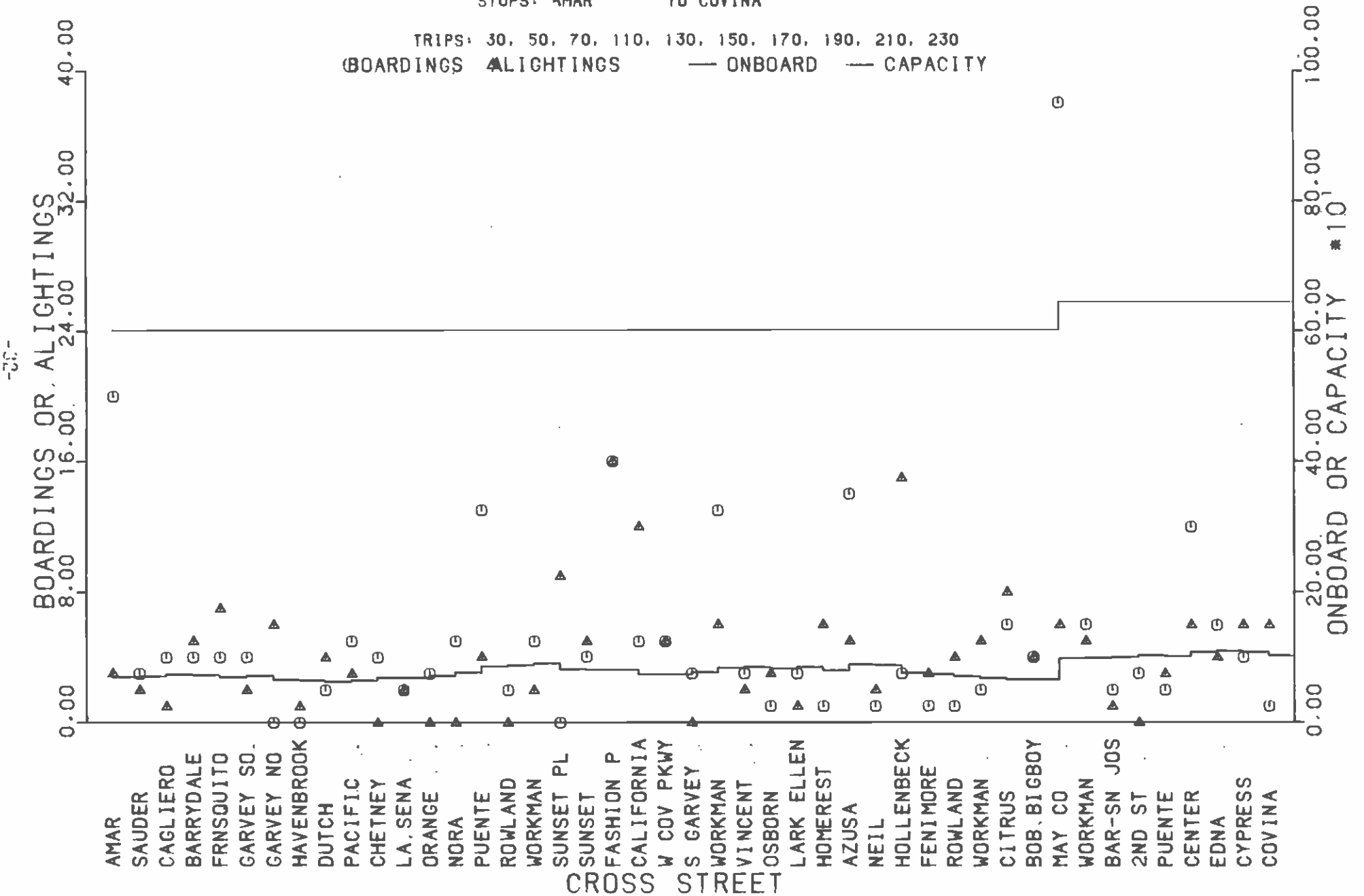
EXHIBIT 1 - PLOT SHOWING PASSENGERS ON/OFF, ON-BOARD BY STOP

EXHIBIT 2 - PLOT SHOWING PASSENGER LOADING BY TIME-OF-DAY

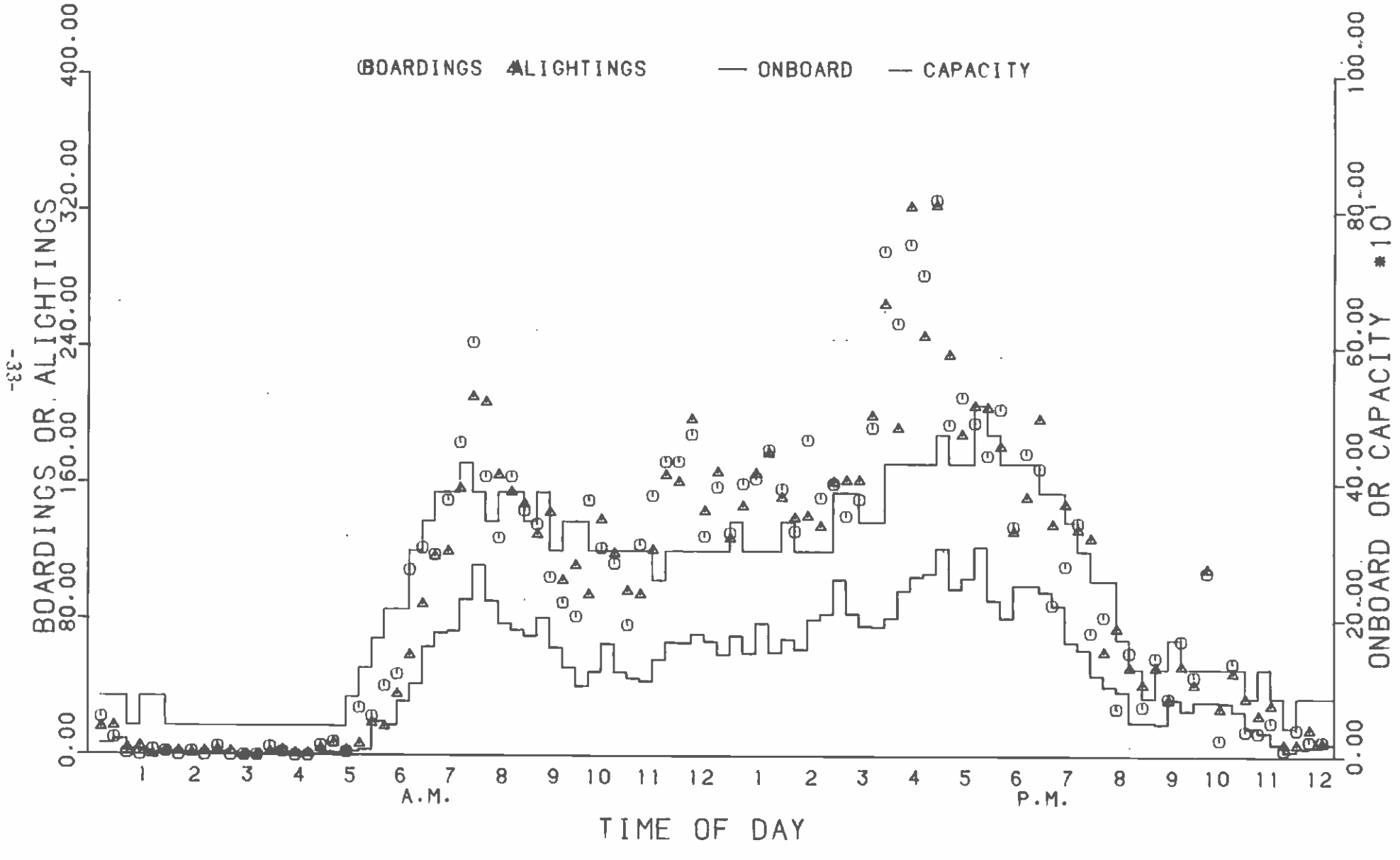
PASSENGER ACTIVITY
ROUTE 274 NORTHBOUND
CHECK DATE: TUE 6/10/86

SCHEDULE TIME: 0 THRU 3000
STOPS: AMAR TO COVINA

TRIPS: 30, 50, 70, 110, 130, 150, 170, 190, 210, 230



PASSENGER ACTIVITY
ROUTE 180 EASTBOUND
CHECK DATE: MON 6/30/86



6.0 LOGOFF SEQUENCE

After exiting from the RBLS Package, the Service Analysis Programs Master Menu Panel will re-appear. On this panel, a "X" should be specified at the designated location and the enter key should be pressed. After receiving the READY prompt, the session is terminated by typing LOGOFF and pressing the ENTER key.

SERVICE ANALYSIS PROGRAMS

OPTION ===> _

1 - RIDE CHECK PROCESSING	(SVALINE)	11 - AREA ACCOUNTS REPORTS	(SVAWIDE)
2 - PRINT PAPER CHECK FORM	(SVALSTT)	12 - LINE LEVEL REPORTS	(SVALRPT)
3 - MISC. LINE STATUS JOB	(SVAPREP)	13 - MISC. UTILITIES	(SVAMISC)
4 - PATRONAGE REPORTING	(SVABRDG)	14 - HAND-HELD PROJECT JOBS	(SVAHHD)
5 - FARE SURVEY SERIES A	(SVACLST)	15 - UNIVAC TO IBM CONV.	(SVAFILES)
6 - FARE SURVEY SERIES B	(SVATRIP)	16 - SERVICE CONSUMED SE15	(SVASE15)
7 - FARE SURVEY SERIES C	(SVASMPL)	17 - RIDE CHECK STORAGE	(SVATAPE)
8 - FARE SURVEY SERIES D&E	(SVAFARE)	18 - LINE PERFORMANCE TREND	(SVAPERF)
9 - SE15 & MISC REPORTING	(SVAGOVT)	19 - SERVICE ANALYSIS PLOT	(SVAPLOT)
10 - TITLE 6 REPORTING	(SVATTL6)	20 - RIDERSHIP BY SEGMENT	(SVARBLS)

X = EXIT

SELECT THE DESIRED OPTION THEN PRESS ENTER

SERVICE ANALYSIS PROGRAMS - MAIN MENU

7.0 EXAMPLES

This section presents an example of a line segment analyzed using the RBLS package. It is assumed that the user has successfully performed the logon sequence and has established the access to the RBLS package.

The user wishes to analyze a segment of the District's Line 424 during the pm rush hours on a weekday. The sequence of steps carried out to get the desired results are as follows:

- On the first Data Entry Panel, the user types the LINE NUMBER (424) and DAY TYPE (DA). This is followed by pressing the enter key.

- On the second Data Entry Panel, the system displays the day-of-week and date of the latest ride check available for the requested line. The directions of line operation are also displayed. The user specifies a direction code of "1", in order to analyze the northbound movement along this line. This is followed by pressing the enter key.

- On the third Data Entry Panel, the user selects the default option for subsequent downloading of RBLS Report. This default option is "NO". This is followed by pressing the enter key.

- On the fourth Data Entry Panel, the user first selects the option number 1 in order to select the stops to be included in the analysis. The default to this option is the selection of the entire line, that is, from stop number 400 to stop number 1430. This is followed by pressing the enter key.

- At this stage, the first Instruction Panel appears, which provides the instructions for specifying the first and last stops for the desired segment. The user presses the enter key to continue.

- On the fifth Data Entry Panel, which displays the stops along line 424 in the northbound direction, the user specifies the first stop by typing an uppercase 'F' in column 1. In this example, the first stop for inclusion is stop number 430 (Hill Street stop at Pico Boulevard intersection). This is followed by pressing the enter key.

- The Data Entry Panel Number 5 reappears showing stop number 430 as the first stop. The user specifies the last stop by typing an uppercase 'L' in column 1. In this example, the last stop for inclusion in the analysis is 780 (Ventura Boulevard stop at Dixie Canyon Road). This is followed by pressing the program function key 3 (PF3).

- At this stage, the Data Entry Panel Number 4 reappears. This time the user selects the option number 2, in order to select the service(s) of interest. This is followed by pressing the enter key.

- The system now displays Instruction Panel Number 2, which provides instructions for selecting the services of interest. The user presses the enter key to continue.

- On Data Entry Panel Number 6, the user types an uppercase 'S' in column 1 against service number 1. This is followed by pressing the enter key. Data Entry Panel Number 6 reappears. This time the user types an uppercase 'S' in column 1 against service number 2. This is allowed by pressing the enter key. The process is repeated untill all desired services have been selected. The service selection sequence is terminated by pressing the PF3 key.

- The Data Entry Panel Number 4 reappears. This time the user selects the option number 3, in order to define the time period of interest. This is followed by pressing the enter key.

- On Data Entry Panel Number 7, the user first selects the time constraint option number 2. That is, trips are qualified if scheduled times at selected stops fall within the time slice of interest. The time slice is specified by typing in the starting and ending time. The times are entered as military times in hours:minutes format. This is followed by pressing the enter key.

- The Data Entry Panel Number 4 again reappears. Since the segment has been fully defined, the user now selects option number 4, in order to generate the desired report. This is followed by pressing the enter key.

- On Data Entry Panel Number 8, the user selects the option number 2, in order to generate the reports on-line (at the time of writing of this manual, only Option 2 was available). This is followed by pressing the enter key.

- On Data Entry Panel Number 9, the user first specifies the Option 1, in order to browse the trip level data which will be aggregated in generating the desired report. This is followed by pressing the enter key.

- At this stage, the Display Data Panel appears. This panel shows for each selected trip, the on/off and on-board activity by stop. In addition, the service number and scheduled time at each stop are also displayed. The scheduled times are displayed in hours:minutes format. The user can use PF keys 7 and 8 to browse the file. The browsing mode is terminated by pressing the PF3 key.

- The Data Entry Panel Number 9 reappears. By selecting option 2 on this panel, the user can browse the stops in the line segment for which the data will be summarized. This is followed by pressing the enter key.

- Now the Display Stop Panel appears which shows the stop number and location of the stop. In addition, a 1,0 flag is used to designate whether a specific service serves this stop or not. A code of '1' means that a service does serve this stop. By pressing the PF3 key, the user can terminate the browse mode and return to Data Entry Panel Number 9.

- On Data Entry Panel Number 9, the user specifies option number 3, in order to browse the final report. This is followed by pressing the enter key.

- At this stage, the Oisplay Report Panel appears. This panel shows the on/off activity, passengers on-board and number of bus trips serving each stop within the selected segment. The stop having the maximum accumulation on-board is marked with an asterisk (*). The total on/off activity along the segment, in-service bus hours and bus miles along the segment are reported in the last three rows of the report. The user can use PF keys 7 and 8 to browse this report. The browsing mode is terminated by pressing the enter key.

- At this stage, the Continue Option Panel (Panel Number 10) appears. The user specifies option number 1, in order to plot the data shown in the previous report. This is followed by pressing the enter key.

- On Data Entry Panel Number 11 (Plotting Options), the user selects plot type 1 to generate the plot of passengers on/off, on-board by stop. On this panel, the user also specifies plot paging option as 2. This will generate the plot as a sequence of 8.5 x 11 inch sheets. This is followed by pressing the enter key.

- The system displays the data that will be included in the plot. The user should press the enter key at the end of the screen data display.

- At this stage, the Data Entry Panel Number 12 (CALCOMP tape job option) appears. The user wants to create a plot tape for subsequent plotting on a CALCOMP Plotter, therefore, he specifies "YES" as the selected option. This is followed by pressing of the enter key.

- At this stage, the Data Entry Panel Number 1 reappears. The user now has the option to either analyze a different line segment or terminate the dialog with RBLS by pressing the PF3 key.

- The CALCOMP plot generated for the segment selected in this example is shown at the end of the sample panels.

```
MRPAKK  -  SVAR910   *   SERVICE ANALYSIS                  *   87/03/21 -04:25
                     *  RIDERSHIP BY LINE SEGMENT          *
                     *     LINE FILE SELECTION             *
```

ENTER THE FOLLOWING LINE FILE INFORMATION :

LINE NUMBER = 424 (001-999 Line number to be checked)

DAY TYPE = __ (DA=Daily,SA=Saturday,SU=Sunday)

Please note that if the line number contains less than three digits then leading zeros should be included. The Day Type default is DA

PRESS ENTER TO CONTINUE OR PF3/15 TO EXIT FROM RBLS

EXAMPLE - ENTERING LINE NUMBER AND DAY TYPE IN DATA ENTRY PANEL NUMBER 1

```
                    ***********************************
                    *      SERVICE ANALYSIS           *
SVAR920             *  RIDERSHIP BY LINE SEGMENT      *          04:32
                    *     DIRECTION SELECTION         *
                    ***********************************
```

SELECT AVAILABLE DIRECTION CODE = 1

THE FOLLOWING CHECK FILES ARE AVAILABLE:

LINE NUMBER = 424
DAY = WED
CHECK DATE = 860312
DIRECTIONS = 1 3

(1=NORTH,2=EAST,3=SOUTH,4=WEST,5=ROUND TRIP)

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO PREVIOUS MENU

EXAMPLE - ENTERING THE DIRECTION CODE IN DATA ENTRY PANEL NUMBER 2

```
MRPAKK  -  SVARLOT      SERVICE ANALYSIS
                      RIDERSHIP BY LINE SEGMENT      03/23/87 -  01:39
                      LOTUS SPREAD SHEET OPTION
```

WOULD YOU LIKE TO SAVE YOUR FINAL REPORT FOR DOWNLOADING TO THE PC ?

_NO_ SPECIFY YES OR NO

note: please do not specify the yes option +unless you really want to download the final report

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO MAIN MENU

EXAMPLE - SPECIFYING THE PC DOWNLOAD OPTION IN DATA ENTRY PANEL NUMBER 3

```
                    ***********************************
*************************      SERVICE ANALYSIS      *************************
*   SVAR930            RIDERSHIP BY LINE SEGMENT                01:40      *
*************************      SEGMENT  SELECTION    *************************
                    ***********************************
```

SELECT SEGMENT DEFINITION OPTION ==> 1

THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:

1 = DEFINE STOP RANGE (PRESENT - START STOP = 400 END STOP = 1430)

2 = SELECT SERVICE TYPES

3 = DEFINE TIME RANGE (START TIME = 0 END TIME = 3000)

4 = DISPLAY/PRINT REPORT

Please note that Defaults are All Stops, All Services, All Trips

PRESS ENTER TO PROCESS OR SELECT OPTION 4 TO CONTINUE TO NEXT PANEL OR PRESS PF3/15 TO EXIT RBLS

EXAMPLE - SELECTING OPTION 1 IN DATA ENTRY PANEL NUMBER 4

```
-----------------------------------------------------------------------------
                        *      SERVICE ANALYSIS        *
  MRPAKK  -  SVAR93A    *  RIDERSHIP BY LINE SEGMENT   *   03/23/87 - 01:45
                        *      STOP RESTRICTION        *
-----------------------------------------------------------------------------
```

STOP RESTRICTION INSTRUCTIONS:

1. USING NORMAL ISPF EDITOR COMMANDS, MOVE THE CURSOR TO THE ROW CONTAINING FIRST STOP YOU WANT TO RESTRICT YOUR ANALYSIS TO. IN COLUMN 1 (LEFT) , TYPE THE UPPERCASE LETTER "F" AND PRESS ENTER.

2. AS IN STEP 1, MOVE THE CURSOR TO THE LAST STOP YOU WISH TO RESTRICT YOUR ANALYSIS TO. IN COLUMN 1 ENTER THE UPPERCASE LETTER "L" AND PRESS ENTER.

3. PRESS PF3 OR PF15 TO RETURN TO PREVIOUS MENU.

PRESS ENTER TO CONTINUE

EXAMPLE - INSTRUCTION PANEL NUMBER 1

```
------------------  RIDERSHIP BY LINE STOP LIST ------- LINE 000001 COL 001 080
COMMAND ===>                                            SCROLL ===> CUR
                                SVAR931
1 <---F=START L=STOP                                PF8=DOWN PF7=UP PF3=END
V ***************************************************************************
V  STOP                      STOP                                SERVICES
V  NO.                   ON          AT                         USING STOP
   400                TERMINAL      28                           111100111
   410                HILL          VENICE                       111100111
   420                HILL          14TH ST                      111100111
F  430                HILL          PICO                         111100111
   440                HILL          12TH ST                      111100111
   450                HILL          11TH ST                      111100111
   460                HILL          OLYMPIC                      111100111
   465                HILL          9TH ST                       111100111
   470                HILL          8TH ST                       111100111
   480                HILL          7TH ST                       111100111
   490                HILL          5TH ST                       111100111
   500                HILL          4TH ST                       111100111
   510                HILL          3RD ST                       111100111
```

EXAMPLE - SPECIFYING FIRST STOP IN

DATA ENTRY PANEL NUMBER 5

```
------------------  RIDERSHIP BY LINE STOP LIST ------- LINE 000001 COL 001 080
COMMAND ===>                                            SCROLL ===> CUR
                                SVAR931
1 <---F=START L=STOP                              PF8=DOWN PF7=UP PF3=END
V ***************************************************************************
V  STOP                      STOP                                SERVICES
V  NO.                   ON            AT                      USING STOP
   660                VENTURA       COLFAX                      111101000
   670                VENTURA       CARPENTER                   111101000
   680                VENTURA       VENTURA PL                  111101000
   690              * VENTURA LS    LAUREL CYN                  111101111
   700                VENTURA       VANTAGE                     111101000
   710                VENTURA       LAUREL GRO                  111101000
   720                VENTURA       WHITSETT                    111101000
   730                VENTURA       OPP 12632                   111101000
   740                VENTURA       GOODLAND                    111101000
   750                VENTURA LS    COLDWATER                   111101111
   760                VENTURA       ETHEL                       111101000
   770                VENTURA       FULTON                      111101000
L  780                VENTURA       DIXIE CYN                   111101000
   790                VENTURA       SUNNYSLOPE                  111101000
   800                VENTURA LS    WOODMAN                     111101111
   810                VENTURA       STERN                       111101000
   820                VENTURA       HAZELTINE                   111101000
   830                VENTURA       TYRONE                      111101000
```

EXAMPLE - SPECIFYING LAST STOP IN

DATA ENTRY PANEL NUMBER 5

```
                    ***********************************
 ************************      SERVICE ANALYSIS      ************************
 *   SVAR930            RIDERSHIP BY LINE SEGMENT              01:40     *
 ************************      SEGMENT  SELECTION    ************************
                    ***********************************

 SELECT SEGMENT DEFINITION OPTION ==> 2

 THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:

1 = DEFINE STOP RANGE  ( PRESENT - START STOP =  430    END STOP =   780  )

2 = SELECT SERVICE TYPES

3 = DEFINE TIME RANGE  ( START TIME = 0       END TIME = 3000   )

4 = DISPLAY/PRINT REPORT

Please note that  Defaults are All Stops, All Services, All Trips
=================================================================================
    PRESS ENTER TO PROCESS OR SELECT OPTION 4 TO CONTINUE TO NEXT
          PANEL OR PRESS PF3/15 TO EXIT RBLS
```

EXAMPLE - SELECTING OPTION 2 IN

DATA ENTRY PANEL NUMBER 4

```
------------------------------------------------------------------------------
                        *      SERVICE ANALYSIS       *
  MRPAKK  -  SVAR93B    *  RIDERSHIP BY LINE SEGMENT  *  03/23/87 - 01:50
                        *    SERVICE RESTRICTION      *
------------------------------------------------------------------------------

 SERVICE RESRICTION INSTRUCTIONS:

 1. USING NORMAL ISPF EDITOR COMMANDS, MOVE THE CURSOR TO THE ROW CONTAINING
    SERVICE TYPE YOU WISH TO INCLUDE IN YOUR ANALYSIS.  IN COLUMN 1
    (LEFT) , TYPE THE UPPERCASE LETTER "S" AND PRESS ENTER.  REPEAT THE
    PROCESS FOR EACH SERVICE SELECTED.

 2. DEFAULT IS ALL SERVICES SELECTED.

 3. PRESS PF3 OR PF15 TO RETURN TO PREVIOUS MENU.

                          PRESS ENTER TO CONTINUE
```

EXAMPLE - INSTRUCTION PANEL NUMBER 2

```
------------------ RIDERSHIP BY LINE SEGMENT HEADER -- LINE 000001 COL 001 080
COMMAND ===>                      SVAR932              SCROLL ===> PAGE

  SERVICE                          THE DESCRIPTION OF THE BRANCH
    NUM                                 IN THE HEADER CARD
 S 1       TERMINAL 28 TO RESEDA & DEVONSHIRE -RTE 424-
   2       TERMINAL 28 TO RESEDA & NORDOFF -RTE 424-
   3       TERMINAL 28 TO RESEDA & SHERMAN WAY -RTE 424-
   4       TERMINAL 28 TO RESEDA & LINNET & RHEA, SCHOOL -RTE 424-
   5       VENTURA & VAN NUYS TO LINNET & RHEA, SCHOOL RTE 424-
   6       VENTURA & LANKERSHIM TO VENTURA & SEPULVEDA -RTE 424-
   7       TERMINAL 28 TO RESEDA & DEVONSHIRE -RTE 425-
   8       TERMINAL 28 TO RESEDA & NORDOFF -RTE 425-
   9       TERM 28 TO RESEDA & SHERMAN WAY -RTE 425-
```

EXAMPLE - SPECIFYING A SERVICE TO BE SELECTED IN DATA ENTRY PANEL NUMBER 6

```
                    ***********************************
*************************      SERVICE ANALYSIS      *************************
*   SVAR930              RIDERSHIP BY LINE SEGMENT              01:40     *
*************************      SEGMENT  SELECTION    *************************
                    ***********************************

SELECT SEGMENT DEFINITION OPTION ==> 3

THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:

1 = DEFINE STOP RANGE  ( PRESENT - START STOP =  430    END STOP =   780  )

2 = SELECT SERVICE TYPES

3 = DEFINE TIME RANGE  ( START TIME = 0       END TIME = 3000   )

4 = DISPLAY/PRINT REPORT

Please note that  Defaults are All Stops, All Services, All Trips
=================================================================================
    PRESS ENTER TO PROCESS OR SELECT OPTION 4 TO CONTINUE TO NEXT
           PANEL OR PRESS PF3/15 TO EXIT RBLS
```

EXAMPLE - SELECTING OPTION 3 IN
DATA ENTRY PANEL NUMBER 4

```
                    ***********************************
*************************      SERVICE ANALYSIS      *************************
*   SVAR933              RIDERSHIP BY LINE SEGMENT              04:20     *
*************************      TIME SELECTION        *************************
                    ***********************************

SELECT TIME SLICE OPTION ==>  2

THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:

1 = SELECT TRIPS WITHIN TIME SLICE.

2 = SELECT STOPS WITHIN TIME SLICE.

        (ENTER TIME RANGE BELOW --- 00:00 - 30:00 HRS)

    ( START TIME =  14 : 30 , END TIME =  18 : 30   - HH:MM )
=================================================================================
    PRESS ENTER TO PROCESS OR PF3/15 TO RETURN TO PREVIOUS MENU
```

EXAMPLE - SELECTING OPTION 2 IN DATA ENTRY PANEL NUMBER 7
AND SPECIFYING THE TIME PERIOD OF ANALYSIS

```
                    ************************************
*************************      SERVICE ANALYSIS      *************************
*   SVAR930             RIDERSHIP BY LINE SEGMENT                01:40    *
*************************      SEGMENT  SELECTION    *************************
                    ************************************

SELECT SEGMENT DEFINITION OPTION ==> 4

THE FOLLOWING SEGMENT SELECTION OPTIONS ARE AVAILABLE:

1 = DEFINE STOP RANGE  ( PRESENT - START STOP =  430    END STOP =   780  )

2 = SELECT SERVICE TYPES

3 = DEFINE TIME RANGE  ( START TIME = 1430    END TIME = 1830    )

4 = DISPLAY/PRINT REPORT

Please note that  Defaults are All Stops, All Services, All Trips
=====================================================================
   PRESS ENTER TO PROCESS OR SELECT OPTION 4 TO CONTINUE TO NEXT
          PANEL OR PRESS PF3/15 TO EXIT RBLS
```

EXAMPLE - SELECTING OPTION 4 IN

DATA ENTRY PANEL NUMBER 4

```
                    ===============================
===================      SERVICE ANALYSIS      ===================
   SVAR940             RIDERSHIP BY LINE SEGMENT                04:25
===================      OUTPUT   SELECTION    ===================
                    ===============================

SELECT OPTION = 2

THE FOLLOWING OUTPUT SELECTION OPTIONS ARE AVAILABLE:

1 = BATCH PROCESS - SUBMIT A BATCH JOB TO OBTAIN THE FINAL RESULTS

2 = ON-LINE - PROCESS ON LINE AND SEND RESULTS TO THE TERMINAL

   (*NOTE - OPTION 2 MAY REQUIRE CONSIDERABLE PROCESSING TIME)


=====================================================================

   PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO PREVIOUS MENU
```

EXAMPLE - SELECTING OPTION 2 IN

DATA ENTRY PANEL NUMBER 8

SVAR960 SERVICE ANALYSIS 02:05
RIDERSHIP BY LINE SEGMENT
ON-LINE SELECTION

SELECT ON-LINE OPTION = 1

THE FOLLOWING ON-LINE OPTIONS ARE AVAILABLE:

1 = DISPLAY DATA

2 = DISPLAY STOPS

3 = DISPLAY REPORT

4 = PLOT THE DATA SELECTED

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO TSO

EXAMPLE - SELECTING OPTION 1 IN

DATA ENTRY PANEL NUMBER 9

RIDERSHIP BY LINE DATA

COMMAND ===>_ SCROLL ===>_

SVAR972

PF8=DOWN PF7=UP PF3=END

TRIP	STOP	SRV	TIME SCHED	ON	OFF	ONBOARD
2410	730	1	1430	0	0	2
2410	740	1	1430	0	0	2
2410	750	1	1431	0	0	2
2410	760	1	1431	0	0	2
2410	770	1	1433	0	0	2
2410	780	1	1433	0	0	2
2430	570	6	1430	0	0	0
2410	580	6	1430	0	0	0
2410	590	6	1431	0	0	0
2410	600	6	1431	2	0	2
2410	610	6	1432	0	0	2
2410	620	6	1433	0	1	1

EXAMPLE - DISPLAY DATA PANEL

```
                    SERVICE ANALYSIS
   SVAR960             RIDERSHIP BY LINE SEGMENT                02:05
                    ON-LINE  SELECTION

   SELECT ON-LINE OPTION = 2

   THE FOLLOWING ON-LINE OPTIONS ARE AVAILABLE:

  1 = DISPLAY DATA

  2 = DISPLAY STOPS

  3 = DISPLAY REPORT

  4 = PLOT THE DATA SELECTED

=====================================================================

    PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO TSO
```

EXAMPLE - SELECTING OPTION 2 IN DATA ENTRY PANEL NUMBER 9

```
------------------  RIDERSHIP BY LINE STOP LIST ------- LINE 000001 COL 001 080
COMMAND ===>                                          SCROLL ===> CUR
                                  SVAR931
1 <---F=START L=STOP                              PF8=DOWN PF7=UP PF3=END
V ***************************************************************************
V  STOP                      STOP                          SERVICES
V  NO.                  ON           AT                   USING STOP
   430                HILL         PICO                    111100111
   440                HILL         12TH ST                 111100111
   450                HILL         11TH ST                 111100111
   460                HILL         OLYMPIC                 111100111
   465                HILL         9TH ST                  111100111
   470                HILL         8TH ST                  111100111
   480                HILL         7TH ST                  111100111
   490                HILL         5TH ST                  111100111
   500                HILL         4TH ST                  111100111
   510                HILL         3RD ST                  111100111
```

EXAMPLE - DISPLAY STOPS PANEL

SVAR960 SERVICE ANALYSIS 02:05
RIDERSHIP BY LINE SEGMENT
ON-LINE SELECTION

SELECT ON-LINE OPTION = 3

THE FOLLOWING ON-LINE OPTIONS ARE AVAILABLE:

1 = DISPLAY DATA

2 = DISPLAY STOPS

3 = DISPLAY REPORT

4 = PLOT THE DATA SELECTED

PRESS ENTER TO CONTINUE OR PF3/15 TO RETURN TO TSO

EXAMPLE - SPECIFYING OPTION 3 IN
DATA ENTRY PANEL NUMBER 9

---------- RIDERSHIP BY LINE STOP REPORT----------
COMMAND ===>_ SCROLL ===> CUR

SVAR974

PF8=DOWN PF7=UP PF3=END

STOP NO.	STOP ON	STOP AT	ON	PASSENGERS OFF	ON-BOARD	TRIPS
430	HILL	PICO	5	0	33	17
440	HILL	12TH ST	12	0	45	17
450	HILL	11TH ST	9	0	54	17
460	HILL	OLYMPIC	12	0	65	16
465	HILL	9TH ST	15	0	80	16
470	HILL	8TH ST	30	1	109	16
480	HILL	7TH ST	112	2	219	16
490	HILL	5TH ST	68	0	287	16
740	VENTURA	GOODLAND	0	4	480	19
750	VENTURA	COLDWATE	19	23	476	19
760	VENTURA	ETHEL	6	4	478	19
770	VENTURA	FULTON	6	7	477	19
780	VENTURA	DIXIE CY	7	8	476	19
9999	== TOTAL ON/OFF=>		733	332	0	0
9998	== TOTAL VMT*10=>		134	0	0	0
9997	== TOTAL VMT*10=>		2520	0	0	0

EXAMPLE - DISPLAY REPORT PANEL

```
                    SERVICE ANALYSIS
  SVAR965             RIDERSHIP BY LINE SEGMENT              02:20
                      PLOT OPTION

  SELECT CONTINUE OPTION = 1

  THE FOLLOWING OPTIONS ARE AVAILABLE:

1 = PLOT THE DATA SELECTED OR SHOWN IN THE PREVIOUS REPORT

2 = ANALYZE A DIFFERENT LINE SEGMENT

X = EXIT RBLS AND RETURN TO TSO

================================================================================

        PRESS ENTER TO PROCESS OR PF3/15 TO RETURN TO MAIN MENU
```

EXAMPLE - SELECTING OPTION 1 IN DATA ENTRY PANEL NUMBER 10

```
                    SERVICE ANALYSIS
  SVAR966             RIDERSHIP BY LINE SEGMENT              04:32
                      PLOTTING OPTIONS

  SPECIFY THE TYPE OF PLOT DESIRED ==>  1

  THE FOLLOWING TYPES OF PLOTS CAN BE GENERATED:

1 = PLOT SHOWING PASSENGERS ON/OFF, ON-BOARD BY STOP
2 = PLOT SHOWING PASSENGER LOADING BY TIME-OF-DAY

  SPECIFY THE PAGING OF PLOT OUTPUT ==> 2

  THE FOLLOWING PAGING OPTIONS ARE AVAILABLE:

1 = PLOT ON A CONTINUOUS ROLL OF PAPER
2 = PLOT AS 8.5 x 11 INCH  SHEETS

================================================================================

     PRESS ENTER TO PROCESS OR PF3/15 TO RETURN TO PREVIOUS MENU
```

EXAMPLE - SPECIFYING TYPE OF PLOT AND PLOT PAGING OPTIONS IN DATA ENTRY PANEL NUMBER 11

MRPAKK - SVAR980	SERVICE ANALYSIS RIDERSHIP BY LINE SEGMENT CALCOMP TAPE JOB OPTION	87/03/23 - 02:24

WOULD YOU LIKE TO SAVE YOUR PLOT FILES FOR SUBSEQUENT PLOTTING ON A CALCOMP PLOTTER ?

YES SPECIFY YES OR NO

note: please do not specify yes option unless you previously selected the plot option. After terminating the RBLS session, use ISPF 9.h option to determine the volume serial of tape that contains your plot(s). Follow tape charge-out procedure.

PRESS ENTER TO CONTINUE OR PF3/15 TO EXIT RBLS AND RETURN TO TSO

EXAMPLE - SPECIFYING CALCOMP PLOTTING OPTION IN DATA ENTRY PANEL NUMBER 12

THE FOLLOWING PAGE SHOWS THE PLOT THAT WAS GENERATED FOR THE LINE 424 SEGMENT SELECTED IN THE PREVIOUS EXAMPLE

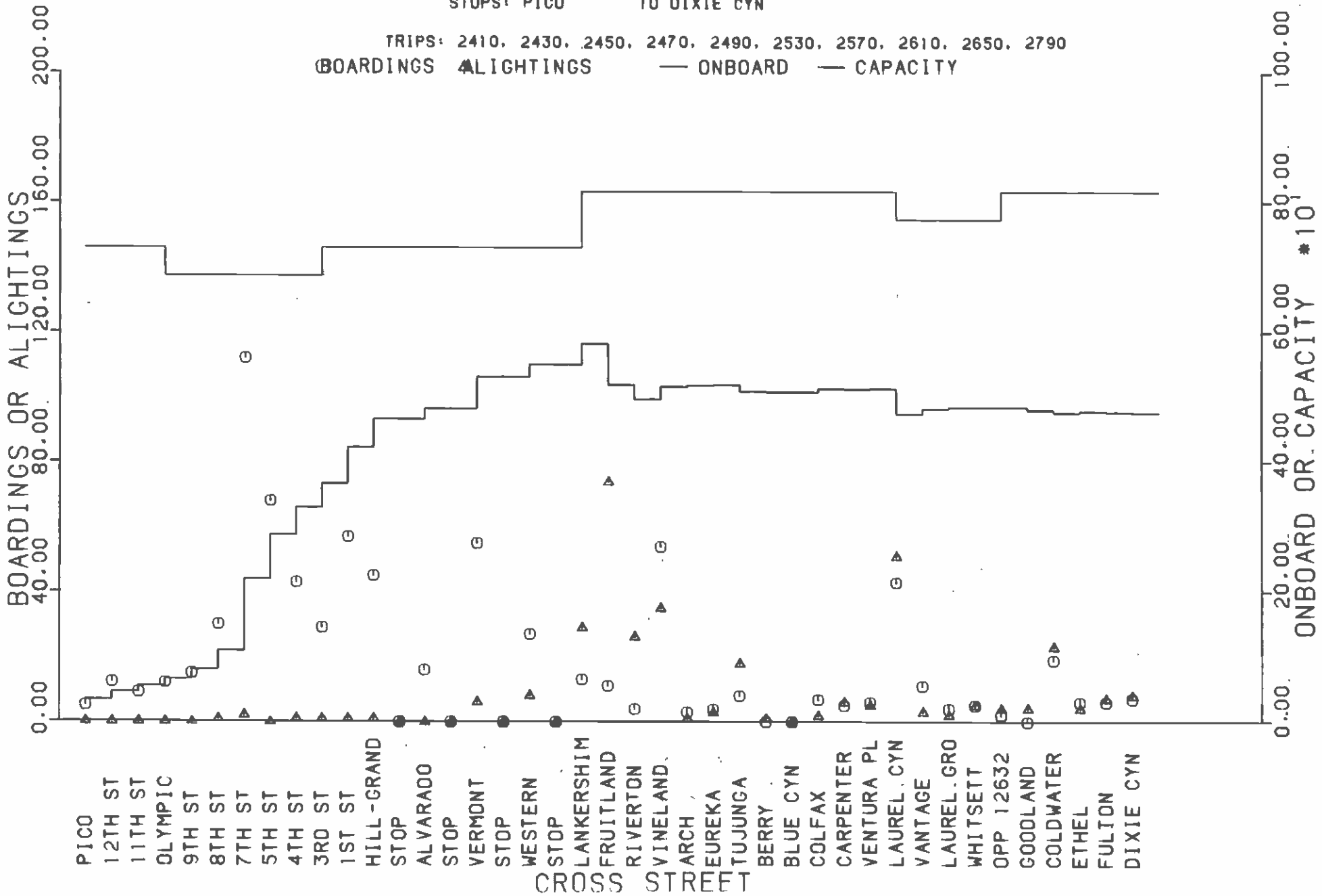
ROUTE 424 NORTHBOUND

CHECK DATE: WED 3/12/86

SCHEDULE TIME: 1430 THRU 1830
STOPS: PICO TO OIXIE CYN

TRIPS: 2410, 2430, 2450, 2470, 2490, 2530, 2570, 2610, 2650, 2790

BOARDINGS ALIGHTINGS — ONBOARD — CAPACITY



8.0 FUTURE ENHANCEMENTS

The future enhancements to the RBLS package will incorporate the following:

- Capability to compute and report farebox revenue for the selected segment.
- Capability to report both scheduled and actual time at each selected stop for the qualified bus trips.
- Capability to generate the reports under the "batch" option.
- Implementation of the RBLS package under CICS to improve the system response time. The current version operates under TSO with system response time slower than possible under CICS. On-line applications are better suited under CICS.