APPENDIX G

SPEED-FLOW-DENSITY RELATIONSHIPS

This appendix contains the speed-flow-density charts created for the high speed arterial and freeway facilities. As described in Chapter 4, data was separated based on mode. In addition, filters were used to restrict data to near steady-state conditions. A range rate envelope of $-1 \text{ m/s}$ to $+1 \text{ m/s}$ was used in addition to an acceleration limit of magnitude $0.01 \text{ g}$. The high speed arterial speed-flow-density relationships are presented first followed by the freeway speed-flow-density relationships.

G.1 High Speed Arterial Speed-Flow-Density Relationships

![Figure G-1 High Speed Arterial Manual Speed-Headway Relationship](image-url)
Figure G-2 High Speed Arterial Manual Speed-Density Relationship

Figure G-3 High Speed Arterial Manual Speed-Flow Relationship
Figure G-4 High Speed Arterial CCC Speed-Headway Relationship

Figure G-5 High Speed Arterial CCC Speed-Density Relationship
Figure G-6 High Speed Arterial CCC Speed-Flow Relationship

Figure G-7 High Speed Arterial ICC Speed-Headway Relationship
Figure G-8 High Speed Arterial ICC Speed-Density Relationship

Figure G-9 High Speed Arterial ICC Speed-Flow Relationship
G.2 Freeway Speed-Flow-Density Relationships

Figure G-10 Freeway Manual Speed-Headway Relationship

Figure G-11 Freeway Manual Speed-Density Relationship
Figure G-12 Freeway Manual Speed-Flow Relationship

Figure G-13 Freeway CCC Speed-Headway Relationship
Figure G-14 Freeway CCC Speed-Density Relationship

Figure G-15 Freeway CCC Speed-Flow Relationship
Figure G-16 Freeway ICC Speed-Headway Relationship

Figure G-17 Freeway ICC Speed-Density Relationship
Figure G-18 Freeway ICC Speed-Flow Relationship