

Phone: Fax:
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 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	4010	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1114	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1530	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1530	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	21.9	pc/mi/ln

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 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	6844	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1901	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2611	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2611	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S		mi/h
Number of lanes, N	3	
Density, D		pc/mi/ln

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 Jurisdiction: Rocklin
 Analysis Year:
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 Flow Inputs and Adjustments

Volume, V	6267	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1741	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2391	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2391	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	53.7	mi/h
Number of lanes, N	3	
Density, D	44.5	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	5236	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1454	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1997	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1997	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	64.9	mi/h
Number of lanes, N	3	
Density, D	30.8	pc/mi/ln

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 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	4157	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1155	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1586	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1586	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.5	mi/h
Number of lanes, N	3	
Density, D	22.8	pc/mi/ln

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 Jurisdiction: Rocklin
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 Flow Inputs and Adjustments

Volume, V	6456	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1793	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2463	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2463	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S		mi/h
Number of lanes, N	3	
Density, D		pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	5527	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1535	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2108	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2108	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.5	mi/h
Number of lanes, N	3	
Density, D	33.7	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	4964	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1379	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1894	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1894	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.6	mi/h
Number of lanes, N	3	
Density, D	28.4	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	3238	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	899	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1235	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1235	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	17.6	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	5088	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1413	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1941	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1941	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.9	mi/h
Number of lanes, N	3	
Density, D	29.5	pc/mi/ln

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 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	4298	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1194	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1640	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1640	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.2	mi/h
Number of lanes, N	3	
Density, D	23.7	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	3939	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1094	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1503	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1503	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.8	mi/h
Number of lanes, N	3	
Density, D	21.5	pc/mi/ln

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 Operational Analysis

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 Freeway/Direction: I-80 EB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	2643	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	734	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1008	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1008	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	14.4	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	4996	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1388	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1906	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1906	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.5	mi/h
Number of lanes, N	3	
Density, D	28.7	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	4526	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1257	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1727	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1727	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.6	mi/h
Number of lanes, N	3	
Density, D	25.2	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	3549	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	986	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1354	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1354	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	19.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	2547	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	708	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	972	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	972	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	13.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	4745	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1318	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1810	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1810	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.7	mi/h
Number of lanes, N	3	
Density, D	26.7	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	4369	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1214	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1667	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1667	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.0	mi/h
Number of lanes, N	3	
Density, D	24.1	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	3311	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	920	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1263	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1263	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	18.0+	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	3799	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1055	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2269	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2269	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	58.0	mi/h
Number of lanes, N	2	
Density, D	39.1	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	4144	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1151	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2475	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2475	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S		mi/h
Number of lanes, N	2	
Density, D		pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	3515	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	976	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2099	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2099	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.7	mi/h
Number of lanes, N	2	
Density, D	33.5	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	3324	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	923	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1985	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1985	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.1	mi/h
Number of lanes, N	2	
Density, D	30.5	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	3612	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1003	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2157	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2157	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	61.3	mi/h
Number of lanes, N	2	
Density, D	35.2	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	3910	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1086	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2335	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2335	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	55.8	mi/h
Number of lanes, N	2	
Density, D	41.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - AM

 Flow Inputs and Adjustments

Volume, V	3344	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	929	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1997	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1997	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	64.9	mi/h
Number of lanes, N	2	
Density, D	30.8	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Projects - PM

 Flow Inputs and Adjustments

Volume, V	3124	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	868	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1866	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1866	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.0	mi/h
Number of lanes, N	2	
Density, D	27.8	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	4027	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1119	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1536	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1536	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	22.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	6905	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1918	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2634	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2634	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S		mi/h
Number of lanes, N	3	
Density, D		pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	6275	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1743	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2394	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2394	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	53.6	mi/h
Number of lanes, N	3	
Density, D	44.7	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	5290	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1469	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2018	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2018	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	64.5	mi/h
Number of lanes, N	3	
Density, D	31.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	4175	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1160	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1593	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1593	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.5	mi/h
Number of lanes, N	3	
Density, D	22.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/08
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	6525	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1813	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2489	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2489	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S		mi/h
Number of lanes, N	3	
Density, D		pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	5538	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1538	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2113	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2113	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.4	mi/h
Number of lanes, N	3	
Density, D	33.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	5037	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1399	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1922	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1922	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.2	mi/h
Number of lanes, N	3	
Density, D	29.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	3268	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	908	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1247	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1247	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	17.8	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	5200	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1444	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1984	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1984	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.2	mi/h
Number of lanes, N	3	
Density, D	30.5	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/08
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	4316	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1199	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1646	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1646	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.2	mi/h
Number of lanes, N	3	
Density, D	23.8	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	4057	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1127	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1548	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1548	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	22.2	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	2674	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	743	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1020	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1020	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	14.6	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	5109	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1419	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1949	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1949	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.8	mi/h
Number of lanes, N	3	
Density, D	29.6	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/08
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	4545	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1263	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1734	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1734	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.5	mi/h
Number of lanes, N	3	
Density, D	25.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	3676	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1021	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1402	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1402	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	20.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	2556	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	710	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	975	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	975	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	13.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	4779	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1328	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1823	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1823	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.6	mi/h
Number of lanes, N	3	
Density, D	27.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	4374	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1215	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1669	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1669	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.0	mi/h
Number of lanes, N	3	
Density, D	24.2	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 12/31/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	3348	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	930	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1277	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1277	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	18.2	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	3811	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1059	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2276	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2276	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	57.8	mi/h
Number of lanes, N	2	
Density, D	39.4	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	4187	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1163	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2501	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2501	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S		mi/h
Number of lanes, N	2	
Density, D		pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	3521	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	978	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2103	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2103	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.6	mi/h
Number of lanes, N	2	
Density, D	33.6	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	3369	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	936	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2012	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2012	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	64.6	mi/h
Number of lanes, N	2	
Density, D	31.1	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	3617	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1005	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2160	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2160	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	61.2	mi/h
Number of lanes, N	2	
Density, D	35.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	3927	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1091	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	2345	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	2345	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	55.4	mi/h
Number of lanes, N	2	
Density, D	42.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - AM

 Flow Inputs and Adjustments

Volume, V	3347	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	930	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1999	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1999	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	64.9	mi/h
Number of lanes, N	2	
Density, D	30.8	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 1/29/2009
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: Existing Plus Approved Plus Project - PM

 Flow Inputs and Adjustments

Volume, V	3142	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	873	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1876	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	4.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1876	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.9	mi/h
Number of lanes, N	2	
Density, D	28.0	pc/mi/ln