

**TRACY HILLS SPECIFIC PLAN
DRAFT SUBSEQUENT ENVIRONMENTAL IMPACT REPORT
VOLUME II
DECEMBER 2014**

**APPENDIX H-3a
HIGHWAY SEGMENT ANALYSIS (HCS) – TRACY, DATED FALL 2014**

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205 Junction/Mtn House Pkwy
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

----- Flow Inputs and Adjustments -----

Volume, V	252	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	68	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	149	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	149	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.1	pc/mi/ln
Level of service, LOS	A	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mtn House Pkwy/I-205 Junction
 Jurisdiction: Caltrans
 Analysis Year: Existing
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	1897	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	515	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1124	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	1124	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	16.1	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Mtn House Pkwy/Corral Hollw R
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

----- Flow Inputs and Adjustments -----

Volume, V	236	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	64	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	140	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	140	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.0	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Corral Hollow Rd/Mtn House Pkw
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

-----Flow Inputs and Adjustments-----

Volume, V	1774	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	482	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1051	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	1051	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	15.0	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Corral Hollow Rd/Rte 132
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

----- Flow Inputs and Adjustments -----

Volume, V	244	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	66	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	145	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	145	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.1	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Rte 132/Corral Hollow Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

----- Flow Inputs and Adjustments -----

Volume, V	1836	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	499	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1088	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	1088	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	15.5	pc/mi/ln
Level of service, LOS	B	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mtn House Pkwy
 Jurisdiction: Caltrans
 Analysis Year: Existing
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	1813	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	493	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1074	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	1074	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	15.3	pc/mi/ln
Level of service, LOS	B	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mtn House Pkwy/I-205 Junction
 Jurisdiction: Caltrans
 Analysis Year: Existing
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	1053	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	286	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	624	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	624	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	8.9	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Mtn House Pkwy/Corral Hollw R
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

-----Flow Inputs and Adjustments-----

Volume, V	1696	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	461	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1005	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	1005	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	14.4	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Corral Hollow Rd/Mtn House Pkw
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

----- Flow Inputs and Adjustments -----

Volume, V	985	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	268	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	584	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	584	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	8.3	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Corral Hollow Rd/Rte 132
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

-----Flow Inputs and Adjustments-----

Volume, V	1754	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	477	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1039	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	1039	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	14.8	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Rte 132/Corral Hollow Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description:

-----Flow Inputs and Adjustments-----

Volume, V	1019	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	277	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	604	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	604	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	8.6	pc/mi/ln
Level of service, LOS	A	

HCS 2010: Basic Freeway Segments Release 6.50

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Phone:
E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	419	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	114	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	248	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	248	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.5	pc/mi/ln
Level of service, LOS	A	

Fax:

Phone:
E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	2896	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	787	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fHV	1.00	
Driver population factor, fp	1716	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	mi/h
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1716	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	25.6	pc/mi/ln
Level of service, LOS	C	

Fax:

Phone:
E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	425	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	115	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	252	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	252	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.6	pc/mi/ln
Level of service, LOS	A	

Fax:

Phone:
E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	2876	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	782	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1704	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1704	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.1	mi/h
Number of lanes, N	2	
Density, D	25.4	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	403	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	110	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fhv	1.00	
Driver population factor, fp	239	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	mi/h
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	239	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.4	pc/mi/ln
Level of service, LOS	A	

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E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	1920	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	522	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fhv	1.00	
Driver population factor, fp	1137	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	mi/h
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1137	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	16.2	pc/mi/ln
Level of service, LOS	B	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	2667	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	725	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1580	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1580	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.3	mi/h
Number of lanes, N	2	
Density, D	23.1	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	1268	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	345	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fHV	1.00	
Driver population factor, fp	751	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	mi/h
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	751	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.7	pc/mi/ln
Level of service, LOS	A	

HCS 2010: Basic Freeway Segments Release 6.50

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	2662	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	723	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1577	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1577	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.4	mi/h
Number of lanes, N	2	
Density, D	23.1	pc/mi/ln
Level of service, LOS	C	

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Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	1273	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	346	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	754	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	754	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.8	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	1874	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	509	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fHV	1.00	
Driver population factor, fp	1110	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	mi/h
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1110	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	15.9	pc/mi/ln
Level of service, LOS	B	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (2035)
 Description:

Flow Inputs and Adjustments

Volume, V	1191	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	324	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fHV	1.00	
Driver population factor, fp	706	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	mi/h
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	706	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.1	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
 E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction / Mtn House Pky
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	530	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	144	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	314	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	314	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	4.5	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction / Mtn House Pky
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2882	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	783	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1707	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1707	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	25.5	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mtn House Pkwy/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	554	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	151	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	328	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	328	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	4.7	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mtn House Pkwy/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2710	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	736	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1605	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flW	-	mi/h
Lateral clearance adjustment, flC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1605	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.1	mi/h
Number of lanes, N	2	
Density, D	23.6	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	371	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	101	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	220	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	220	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.1	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2006	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	545	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1188	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1188	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	17.0	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
 E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction / Mtn House Pky
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2636	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	716	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1562	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1562	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.5	mi/h
Number of lanes, N	2	
Density, D	22.8	pc/mi/ln
Level of service, LOS	C	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction / Mtn House Pky
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1454	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	395	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	861	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	861	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	12.3	pc/mi/ln
Level of service, LOS	B	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mtn House Pkwy/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2566	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	697	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1520	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1520	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.8	mi/h
Number of lanes, N	2	
Density, D	22.1	pc/mi/ln
Level of service, LOS	C	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mtn House Pkwy/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1584	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	430	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	938	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	938	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	13.4	pc/mi/ln
Level of service, LOS	B	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2047	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	556	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1213	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1213	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	17.3	pc/mi/ln
Level of service, LOS	B	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Existing+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1180	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	321	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	699	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	699	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.0	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	252	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	68	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	149	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	149	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.1	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	921	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	250	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	546	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	546	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	7.8	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	115	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	31	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	68	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	68	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	1.0	pc/mi/ln
Level of service, LOS	A	

Phone:
E-mail:

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1094	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	297	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	648	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flW	-	mi/h
Lateral clearance adjustment, flC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	648	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	9.3	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
 E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	101	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	27	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	60	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	60	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	0.9	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	960	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	261	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	569	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	569	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	8.1	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	117	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	32	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	69	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	69	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	1.0	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1245	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	338	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	738	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	738	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.5	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1972	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	536	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1168	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFSS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1168	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	16.7	pc/mi/ln
Level of service, LOS	B	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1318	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	358	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	781	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	781	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	11.2	pc/mi/ln
Level of service, LOS	B	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	2118	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	576	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1255	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1255	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	17.9	pc/mi/ln
Level of service, LOS	B	

Phone:
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Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1262	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	343	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	748	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	748	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.7	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	2103	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	571	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1246	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1246	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	17.8	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
 E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1163	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	316	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	689	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	689	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	9.8	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	2537	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	689	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1503	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1503	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.9	mi/h
Number of lanes, N	2	
Density, D	21.8	pc/mi/ln
Level of service, LOS	C	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative
 Description:

Flow Inputs and Adjustments

Volume, V	1545	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	420	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	915	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	915	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	13.1	pc/mi/ln
Level of service, LOS	B	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	345	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	94	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	204	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	204	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.9	pc/mi/ln
Level of service, LOS	A	

Phone:
E-mail:

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1032	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	280	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	611	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	611	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	8.7	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	291	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	79	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	172	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	172	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.5	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1476	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	401	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	874	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	874	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	12.5	pc/mi/ln
Level of service, LOS	B	

Phone:
E-mail:

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	175	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	48	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	104	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	104	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	1.5	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1064	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	289	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	630	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	630	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	9.0	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	149	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	40	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	88	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	88	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	1.3	pc/mi/ln
Level of service, LOS	A	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1611	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	438	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	954	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	954	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	13.6	pc/mi/ln
Level of service, LOS	B	

Phone:
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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	2203	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	599	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1305	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1305	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.9	mi/h
Number of lanes, N	2	
Density, D	18.7	pc/mi/ln
Level of service, LOS	C	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1487	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	404	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	881	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	881	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	12.6	pc/mi/ln
Level of service, LOS	B	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	2770	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	753	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1641	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1641	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.7	mi/h
Number of lanes, N	2	
Density, D	24.2	pc/mi/ln
Level of service, LOS	C	

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/20/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Mountain House/Lammers
Jurisdiction: Caltrans
Analysis Year: Cumulative+Project
Description:

Flow Inputs and Adjustments

Volume, V	1839	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	500	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1089	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1089	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	15.6	pc/mi/ln
Level of service, LOS	B	

Phone:
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Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	2350	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	639	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1392	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1392	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.6	mi/h
Number of lanes, N	2	
Density, D	20.0	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1345	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	365	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	797	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	797	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	11.4	pc/mi/ln
Level of service, LOS	B	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	2656	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	722	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1573	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1573	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.4	mi/h
Number of lanes, N	2	
Density, D	23.0	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

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 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Project
 Description:

Flow Inputs and Adjustments

Volume, V	1307	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	355	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	774	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	774	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	11.1	pc/mi/ln
Level of service, LOS	B	

HCS 2010: Basic Freeway Segments Release 6.50

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	410	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	111	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	%
Grade	-	mi
Segment length	1.5	
Trucks and buses PCE, ET	1.2	
Recreational vehicle PCE, ER	0.917	
Heavy vehicle adjustment, fHV	1.00	
Driver population factor, fp	243	pc/h/ln
Flow rate, vp		

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	243	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.5	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
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 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1075	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	292	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	637	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	637	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	9.1	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	338	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	92	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	200	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	200	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.9	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1349	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	367	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	799	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	799	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	11.4	pc/mi/ln
Level of service, LOS	B	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	256	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	70	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	152	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	152	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.2	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1146	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	311	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	679	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	679	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	9.7	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	169	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	46	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	100	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	100	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	1.4	pc/mi/ln
Level of service, LOS	A	

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Operational Analysis

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 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1671	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	454	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	990	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flw	-	mi/h
Lateral clearance adjustment, flc	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	990	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	14.1	pc/mi/ln
Level of service, LOS	B	

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Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2299	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	625	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1362	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, flW	-	mi/h
Lateral clearance adjustment, flC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1362	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	2	
Density, D	19.5	pc/mi/ln
Level of service, LOS	C	

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Operational Analysis

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 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205 Junction/Mountain House
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1601	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	435	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	948	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	948	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	13.5	pc/mi/ln
Level of service, LOS	B	

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Operational Analysis

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 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	3056	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	830	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1810	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1810	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.7	mi/h
Number of lanes, N	2	
Density, D	27.6	pc/mi/ln
Level of service, LOS	D	

Phone:
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Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mountain House/Lammers
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2185	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	594	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1294	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1294	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.9	mi/h
Number of lanes, N	2	
Density, D	18.5	pc/mi/ln
Level of service, LOS	C	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2560	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	696	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1517	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1517	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.8	mi/h
Number of lanes, N	2	
Density, D	22.0	pc/mi/ln
Level of service, LOS	C	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Lammers/Corral Hollow
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1606	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	436	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fhv	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	951	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	951	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	13.6	pc/mi/ln
Level of service, LOS	B	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	2770	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	753	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1641	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	1641	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.7	mi/h
Number of lanes, N	2	
Density, D	24.2	pc/mi/ln
Level of service, LOS	C	

Phone:
E-mail:

Fax:

Operational Analysis

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/20/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Corral Hollow/Rte 132
 Jurisdiction: Caltrans
 Analysis Year: Cumulative+Buildout
 Description:

Flow Inputs and Adjustments

Volume, V	1352	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	367	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	801	pc/h/ln

Speed Inputs and Adjustments

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

LOS and Performance Measures

Flow rate, vp	801	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	11.4	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205 Junction/Mtn House Pkwy
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

----- Flow Inputs and Adjustments -----

Volume, V	355	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	96	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	210	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	210	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.0	pc/mi/ln
Level of service, LOS	A	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mtn House Pkwy/I-205 Junction
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (Phase I)
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	2230	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	606	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1321	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	1321	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.8	mi/h
Number of lanes, N	2	
Density, D	18.9	pc/mi/ln
Level of service, LOS	C	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Mtn House Pkwy/Corral Hollow R
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (Phase I)
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	401	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	109	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	238	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	238	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	3.4	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Corral Hollow Road/Mtn House P
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

-----Flow Inputs and Adjustments-----

Volume, V	2169	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	589	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1285	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	1285	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.9	mi/h
Number of lanes, N	2	
Density, D	18.4	pc/mi/ln
Level of service, LOS	C	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Corral Hollow Rd/Rte 132
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

-----Flow Inputs and Adjustments-----

Volume, V	277	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	75	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	164	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	164	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	2.3	pc/mi/ln
Level of service, LOS	A	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Rte 132/Corral Hollow Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (Phase I)
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	1941	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	527	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1150	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	1150	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	16.4	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205 Junction/Mtn House Pkwy
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

-----Flow Inputs and Adjustments-----

Volume, V	2184	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	593	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1294	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	1294	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.9	mi/h
Number of lanes, N	2	
Density, D	18.5	pc/mi/ln
Level of service, LOS	C	

Phone: _____ Fax: _____
 E-mail: _____

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 02/11/14
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Mtn House Pkwy/I-205 Junction
 Jurisdiction: Caltrans
 Analysis Year: Existing+Project (Phase I)
 Description:

----- Flow Inputs and Adjustments -----

Volume, V	1241	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	337	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	735	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	735	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.5	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Mtn House Pkwy/Corral Hollow R
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

-----Flow Inputs and Adjustments-----

Volume, V	2115	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	575	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1253	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	1253	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	17.9	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

-----Operational Analysis-----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Corral Hollow Road/Mtn House P
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

-----Flow Inputs and Adjustments-----

Volume, V	1218	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	331	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	722	pc/h/ln

-----Speed Inputs and Adjustments-----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

-----LOS and Performance Measures-----

Flow rate, vp	722	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	10.3	pc/mi/ln
Level of service, LOS	A	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Corral Hollow Rd/Rte 132
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

----- Flow Inputs and Adjustments -----

Volume, V	1866	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	507	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	1105	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	1105	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	15.8	pc/mi/ln
Level of service, LOS	B	

Phone: Fax:
E-mail:

----- Operational Analysis -----

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 02/11/14
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Rte 132/Corral Hollow Rd
Jurisdiction: Caltrans
Analysis Year: Existing+Project (Phase I)
Description:

----- Flow Inputs and Adjustments -----

Volume, V	1121	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	305	v
Trucks and buses	18	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.917	
Driver population factor, fp	1.00	
Flow rate, vp	664	pc/h/ln

----- Speed Inputs and Adjustments -----

Lane width	-	ft
Right-side lateral clearance	-	ft
Total ramp density, TRD	-	ramps/mi
Number of lanes, N	2	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	70.0	mi/h

----- LOS and Performance Measures -----

Flow rate, vp	664	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	2	
Density, D	9.5	pc/mi/ln
Level of service, LOS	A	