

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

**APPENDIX H-3b
HIGHWAY SEGMENT ANALYSIS (HSC) – LIVERMORE, DATED FALL
2014**

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	1250	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	340	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	401	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	4	
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	401	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	5.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	6430	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1747	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	1649	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	5	
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	1649	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.7	mi/h
Number of lanes, N	5	
Density, D	24.4	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Grant Line Rd/Flynn Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing
 Description: Tracy Hills Specific Plan

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

Volume, V	1250	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	340	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	380	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	4	
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	380	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	5.4	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	6430	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1747	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1957	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	4	
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	1957	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	63.4	mi/h
Number of lanes, N	4	
Density, D	30.9	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

-----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	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	388	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	4	
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	388	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	5.5	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	6385	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1735	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	1995	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	4	
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	1995	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.7	mi/h
Number of lanes, N	4	
Density, D	31.8	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	1379	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	375	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	393	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	393	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.0	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	7464	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2028	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2130	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2130	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	57.4	mi/h
Number of lanes, N	4	
Density, D	37.1	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	1370	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	372	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	395	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	395	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.1	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	7419	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2016	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2137	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2137	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	57.3	mi/h
Number of lanes, N	4	
Density, D	37.3	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	1437	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	390	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	414	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	414	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.4	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	7779	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2114	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2241	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2241	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	55.0	mi/h
Number of lanes, N	4	
Density, D	40.8	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Existing
 Description: Tracy Hills Specific Plan

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

Volume, V	1520	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	413	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	438	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	438	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8229	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2236	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2370	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2370	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	51.7	mi/h
Number of lanes, N	4	
Density, D	45.9	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8302	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2256	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	2662	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	4	
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	2662	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	45.2	mi/h
Number of lanes, N	4	
Density, D	58.9	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	3540	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	962	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	908	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	5	
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	908	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	5	
Density, D	13.0	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8302	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2256	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2527	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	4	
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	2527	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	49.6	mi/h
Number of lanes, N	4	
Density, D	51.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	3540	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	962	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1077	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	4	
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	1077	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	15.4	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8244	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2240	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2576	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	4	
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	2576	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	48.0	mi/h
Number of lanes, N	4	
Density, D	53.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	3515	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	955	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	1098	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	4	
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	1098	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	15.7	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8192	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2226	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2337	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2337	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	52.6	mi/h
Number of lanes, N	4	
Density, D	44.5	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	4109	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1117	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	1172	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1172	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	18.0+	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8143	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2213	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2346	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2346	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	52.3	mi/h
Number of lanes, N	4	
Density, D	44.8	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	4084	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1110	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1176	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1176	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	18.1	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	8537	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2320	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2459	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2459	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	49.1	mi/h
Number of lanes, N	4	
Density, D	50.1	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	4282	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1164	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1233	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1233	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	19.0	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	9031	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2454	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2601	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2601	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	44.5	mi/h
Number of lanes, N	4	
Density, D	58.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Existing
Description: Tracy Hills Specific Plan

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

Volume, V	4530	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1231	v
Trucks and buses	12	%
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	0.943	
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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1305	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	20.1	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	1408	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	383	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	451	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	4	
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	451	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	6.4	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205/Grant Line Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	6582	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1789	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	1688	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	5	
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	1688	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.2	mi/h
Number of lanes, N	5	
Density, D	25.1	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	1408	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	383	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	429	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	4	
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	429	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	6.1	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	6584	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1789	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2004	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	4	
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	2004	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.5	mi/h
Number of lanes, N	4	
Density, D	32.1	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing +Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	1399	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	380	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	437	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	4	
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	437	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	6.2	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	6539	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1777	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2043	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	4	
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	2043	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	61.8	mi/h
Number of lanes, N	4	
Density, D	33.1	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Altamont Pass Rd/Vasco Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	1530	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	416	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	437	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	437	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	7623	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2071	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2175	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2175	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	56.5	mi/h
Number of lanes, N	4	
Density, D	38.5	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year:
Description: Tracy Hills Specific Plan

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

Volume, V	1510	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	410	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	435	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	435	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing +Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	7582	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2060	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2184	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2184	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	56.3	mi/h
Number of lanes, N	4	
Density, D	38.8	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	1560	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	424	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	449	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	449	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.9	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	7917	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2151	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2280	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2280	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	54.0	mi/h
Number of lanes, N	4	
Density, D	42.2	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year:
 Description: Tracy Hills Specific Plan

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

Volume, V	1642	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	446	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	473	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	473	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	7.3	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Existing +Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	8380	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2277	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2414	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2414	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	50.4	mi/h
Number of lanes, N	4	
Density, D	47.9	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8631	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2345	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	2768	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	4	
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	2768	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	41.5	mi/h
Number of lanes, N	4	
Density, D	66.7	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	3660	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	995	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	939	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	5	
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	939	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	5	
Density, D	13.4	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8631	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2345	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2627	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	4	
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	2627	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	46.4	mi/h
Number of lanes, N	4	
Density, D	56.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	3660	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	995	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1114	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	4	
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	1114	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	15.9	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8571	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2329	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2678	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	4	
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	2678	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	44.7	mi/h
Number of lanes, N	4	
Density, D	60.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	3635	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	988	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	1136	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	4	
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	1136	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	16.2	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8504	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2311	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2426	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2426	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	50.1	mi/h
Number of lanes, N	4	
Density, D	48.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	4228	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1149	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	1206	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1206	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	18.6	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8432	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2291	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2429	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2429	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	50.0	mi/h
Number of lanes, N	4	
Density, D	48.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Vasco Rd/First St
 Jurisdiction: Caltrans
 Analysis Year: Existing + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	4200	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1141	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1210	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1210	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	18.6	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8803	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2392	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2536	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2536	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	46.7	mi/h
Number of lanes, N	4	
Density, D	54.3	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	4378	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1190	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1261	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1261	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	19.4	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Existing + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	9291	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2525	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2676	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2676	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	41.9	mi/h
Number of lanes, N	4	
Density, D	63.8	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Existing + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	4626	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1257	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1332	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1332	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	20.5	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	2066	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	561	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	662	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	4	
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	662	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	9.5	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	7707	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2094	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	1977	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	5	
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	1977	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	63.0	mi/h
Number of lanes, N	5	
Density, D	31.4	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	2066	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	561	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	629	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	4	
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	629	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	9.0	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Grant Line Rd/Flynn Rd
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040)
 Description: Tracy Hills Specific Plan

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

Volume, V	7707	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2094	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2346	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	4	
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	2346	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	54.8	mi/h
Number of lanes, N	4	
Density, D	42.8	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	2057	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	559	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	643	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	4	
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	643	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	9.2	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	7671	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2085	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2397	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	4	
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	2397	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	53.4	mi/h
Number of lanes, N	4	
Density, D	44.9	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	2135	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	580	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	609	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	609	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	9.4	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8967	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2437	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2559	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2559	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	46.0	mi/h
Number of lanes, N	4	
Density, D	55.7	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	1903	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	517	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	548	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	548	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	8.4	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8491	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2307	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2446	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2446	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	49.5	mi/h
Number of lanes, N	4	
Density, D	49.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
 E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: First St/Livermore Ave
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040)
 Description: Tracy Hills Specific Plan

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

Volume, V	2421	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	658	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	697	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	697	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	10.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8831	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2400	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2544	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2544	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	46.4	mi/h
Number of lanes, N	4	
Density, D	54.8	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040)
 Description: Tracy Hills Specific Plan

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

Volume, V	2290	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	622	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	660	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	660	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	10.2	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040)
 Description: Tracy Hills Specific Plan

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

Volume, V	8919	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2424	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2569	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2569	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	45.6	mi/h
Number of lanes, N	4	
Density, D	56.3	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8510	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2312	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	2729	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	4	
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	2729	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	42.9	mi/h
Number of lanes, N	4	
Density, D	63.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	5104	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1387	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	1309	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	5	
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	1309	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.9	mi/h
Number of lanes, N	5	
Density, D	18.7	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8582	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2332	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2612	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	4	
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	2612	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	46.9	mi/h
Number of lanes, N	4	
Density, D	55.7	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	5104	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1387	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1553	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	4	
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	1553	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.6	mi/h
Number of lanes, N	4	
Density, D	22.7	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8492	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2308	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2654	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	4	
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	2654	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	45.5	mi/h
Number of lanes, N	4	
Density, D	58.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	5083	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1381	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	1588	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	4	
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	1588	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.3	mi/h
Number of lanes, N	4	
Density, D	23.3	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8192	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2226	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2337	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2337	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	52.6	mi/h
Number of lanes, N	4	
Density, D	44.5	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	5509	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1497	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	1572	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1572	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.6	mi/h
Number of lanes, N	4	
Density, D	24.3	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8903	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2419	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2564	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2564	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	45.8	mi/h
Number of lanes, N	4	
Density, D	56.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	5779	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1570	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1665	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1665	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.0	mi/h
Number of lanes, N	4	
Density, D	26.0+	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	8537	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2320	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2459	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2459	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	49.1	mi/h
Number of lanes, N	4	
Density, D	50.1	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	5362	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1457	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1544	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1544	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.7	mi/h
Number of lanes, N	4	
Density, D	23.9	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040)
Description: Tracy Hills Specific Plan

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

Volume, V	9053	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2460	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2608	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2608	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	44.3	mi/h
Number of lanes, N	4	
Density, D	58.9	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040)
 Description: Tracy Hills Specific Plan

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

Volume, V	5293	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1438	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1525	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1525	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.8	mi/h
Number of lanes, N	4	
Density, D	23.5	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	2224	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	604	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	713	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	4	
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	713	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	10.2	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	7859	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2136	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	2016	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	5	
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	2016	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.3	mi/h
Number of lanes, N	5	
Density, D	32.4	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Grant Line Rd/Flynn Rd
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040) + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	2224	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	604	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	677	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	4	
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	677	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	9.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Grant Line Rd/Flynn Rd
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040) + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	7861	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2136	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2392	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	4	
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	2392	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	53.5	mi/h
Number of lanes, N	4	
Density, D	44.7	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	2215	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	602	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	692	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	4	
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	692	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	9.9	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	7825	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2126	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2445	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	4	
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	2445	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	52.0	mi/h
Number of lanes, N	4	
Density, D	47.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	2286	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	621	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	652	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	652	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	10.0	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	9126	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2480	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2604	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2604	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	44.4	mi/h
Number of lanes, N	4	
Density, D	58.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	2043	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	555	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	588	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	588	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	9.0	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Vasco Rd/First St
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040) + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	8654	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2352	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2493	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2493	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	48.1	mi/h
Number of lanes, N	4	
Density, D	51.9	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	2544	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	691	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	733	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	733	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	11.3	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8969	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2437	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2583	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2583	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	45.2	mi/h
Number of lanes, N	4	
Density, D	57.2	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	2412	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	655	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	695	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	695	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	10.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	9070	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2465	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2613	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2613	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	44.1	mi/h
Number of lanes, N	4	
Density, D	59.2	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8839	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2402	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	2834	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	4	
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	2834	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	39.0	mi/h
Number of lanes, N	4	
Density, D	72.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	5224	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1420	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	1340	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	5	
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	1340	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.8	mi/h
Number of lanes, N	5	
Density, D	19.2	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8911	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2421	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2712	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	4	
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	2712	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	43.5	mi/h
Number of lanes, N	4	
Density, D	62.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Grant Line Rd/Flynn Rd
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040) + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	5224	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1420	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1590	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	4	
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	1590	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.2	mi/h
Number of lanes, N	4	
Density, D	23.3	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8905	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2420	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2783	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	4	
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	2783	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	40.9	mi/h
Number of lanes, N	4	
Density, D	68.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	5203	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1414	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	1626	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	4	
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	1626	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.9	mi/h
Number of lanes, N	4	
Density, D	23.9	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8504	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2311	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2426	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2426	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	50.1	mi/h
Number of lanes, N	4	
Density, D	48.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	5628	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1529	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	1606	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1606	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.4	mi/h
Number of lanes, N	4	
Density, D	24.9	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	9192	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2498	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2648	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2648	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	42.9	mi/h
Number of lanes, N	4	
Density, D	61.7	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Vasco Rd/First St
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040) + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	5895	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1602	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1698	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1698	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	63.7	mi/h
Number of lanes, N	4	
Density, D	26.6	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	8803	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2392	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2536	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2536	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	46.7	mi/h
Number of lanes, N	4	
Density, D	54.3	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	5458	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1483	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1572	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1572	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.6	mi/h
Number of lanes, N	4	
Density, D	24.3	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Cumulative (2040) + Buildout
Description: Tracy Hills Specific Plan

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

Volume, V	9313	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2531	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2683	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2683	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	41.7	mi/h
Number of lanes, N	4	
Density, D	64.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Cumulative (2040) + Buildout
 Description: Tracy Hills Specific Plan

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

Volume, V	5389	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1464	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1552	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1552	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	64.7	mi/h
Number of lanes, N	4	
Density, D	24.0	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	1281	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	348	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	411	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	4	
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	411	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	5.9	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: I-205/Grant Line Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	6460	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1755	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	1657	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	5	
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	1657	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.6	mi/h
Number of lanes, N	5	
Density, D	24.5	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	1281	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	348	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	390	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	4	
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	390	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	5.6	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Grant Line Rd/Flynn Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	6460	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1755	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1966	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	4	
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	1966	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	63.2	mi/h
Number of lanes, N	4	
Density, D	31.1	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	1272	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	346	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	397	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	4	
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	397	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	5.7	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	6415	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1743	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2005	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	4	
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	2005	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.5	mi/h
Number of lanes, N	4	
Density, D	32.1	pc/mi/ln
Level of service, LOS	D	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	1409	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	383	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	402	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	402	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.2	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	7495	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2037	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2139	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2139	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	57.3	mi/h
Number of lanes, N	4	
Density, D	37.4	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	1398	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	380	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	403	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	403	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.2	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	7451	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2025	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2146	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2146	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	57.1	mi/h
Number of lanes, N	4	
Density, D	37.6	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: First St/Livermore Ave
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	1461	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	397	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	421	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	421	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.5	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: AM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	7806	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2121	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2248	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2248	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	54.8	mi/h
Number of lanes, N	4	
Density, D	41.0	pc/mi/ln
Level of service, LOS	E	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	1544	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	420	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	445	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	445	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	6.8	pc/mi/ln
Level of service, LOS	A	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: AM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	8259	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2244	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2379	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2379	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	51.4	mi/h
Number of lanes, N	4	
Density, D	46.3	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
 E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 EB
 From/To: I-205/Grant Line Rd
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	8356	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2271	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	2679	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	4	
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	2679	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	44.6	mi/h
Number of lanes, N	4	
Density, D	60.0	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: I-205/Grant Line Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	3560	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	967	v
Trucks and buses	12	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.847	
Driver population factor, fp	1.00	
Flow rate, vp	913	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	5	
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	913	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	5	
Density, D	13.0	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	8356	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2271	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	2543	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	4	
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	2543	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	49.1	mi/h
Number of lanes, N	4	
Density, D	51.8	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Grant Line Rd/Flynn Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	3560	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	967	v
Trucks and buses	8	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.893	
Driver population factor, fp	1.00	
Flow rate, vp	1083	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	4	
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	1083	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	4	
Density, D	15.5	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	8297	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2255	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
Driver population factor, fp	1.00	
Flow rate, vp	2593	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	4	
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	2593	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	47.5	mi/h
Number of lanes, N	4	
Density, D	54.6	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Flynn Rd/Altamont Pass Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	3535	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	961	v
Trucks and buses	10	%
Recreational vehicles	0	%
Terrain type:	Rolling	
Grade	-	%
Segment length	-	mi
Trucks and buses PCE, ET	2.5	
Recreational vehicle PCE, ER	2.0	
Heavy vehicle adjustment, fHV	0.870	
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	4	
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	4	
Density, D	15.8	pc/mi/ln
Level of service, LOS	B	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	8243	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2240	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	2352	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2352	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	52.1	mi/h
Number of lanes, N	4	
Density, D	45.1	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Altamont Pass Rd/Vasco Rd
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	4128	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1122	v
Trucks and buses	10	%
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	0.952	
Driver population factor, fp	1.00	
Flow rate, vp	1178	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1178	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	18.1	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	8190	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2226	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2359	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2359	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	52.0	mi/h
Number of lanes, N	4	
Density, D	45.4	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: Vasco Rd/First St
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	4103	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1115	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1182	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1182	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	18.2	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	8580	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2332	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2471	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2471	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	48.7	mi/h
Number of lanes, N	4	
Density, D	50.7	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 WB
From/To: First St/Livermore Ave
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	4298	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1168	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1238	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1238	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	19.0	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax:
E-mail:

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

Analyst: Kimley-Horn & Assc., Inc.
Agency or Company:
Date Performed: 9/17/2014
Analysis Time Period: PM Peak Hour
Freeway/Direction: I-580 EB
From/To: Livermore Ave/SR-84 (Isabel)
Jurisdiction: Caltrans
Analysis Year: Existing + Phase 1A
Description: Tracy Hills Specific Plan

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

Volume, V	9074	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	2466	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	2614	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	2614	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	44.1	mi/h
Number of lanes, N	4	
Density, D	59.3	pc/mi/ln
Level of service, LOS	F	

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: _____ Fax: _____
 E-mail: _____

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

Analyst: Kimley-Horn & Assc., Inc.
 Agency or Company:
 Date Performed: 9/17/2014
 Analysis Time Period: PM Peak Hour
 Freeway/Direction: I-580 WB
 From/To: Livermore Ave/SR-84 (Isabel)
 Jurisdiction: Caltrans
 Analysis Year: Existing + Phase 1A
 Description: Tracy Hills Specific Plan

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

Volume, V	4546	veh/h
Peak-hour factor, PHF	0.92	
Peak 15-min volume, v15	1235	v
Trucks and buses	12	%
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	0.943	
Driver population factor, fp	1.00	
Flow rate, vp	1309	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	4	
Free-flow speed:	Measured	
FFS or BFFS	65.0	mi/h
Lane width adjustment, fLW	-	mi/h
Lateral clearance adjustment, fLC	-	mi/h
TRD adjustment	-	mi/h
Free-flow speed, FFS	65.0	mi/h

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

Flow rate, vp	1309	pc/h/ln
Free-flow speed, FFS	65.0	mi/h
Average passenger-car speed, S	65.0	mi/h
Number of lanes, N	4	
Density, D	20.1	pc/mi/ln
Level of service, LOS	C	

Overall results are not computed when free-flow speed is less than 55 mph.