SECTION B

CAPACITY ANALYSIS - FREEWAY & RAMP JUNCTIONS

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	858	6753	457	N.A.
% TRUCKS	0	8	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	471	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 70 % OF FREEWAY TRUCKS

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	1945	457	7611
ET	1.7	1.7	1.7
Fhv	0.87	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	2353	491	8433

CHECKPOINT	VOLUME	LOS
FREEWAY:	8433	F
DIVERGE:	2353	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	1049	4719	812	N.A.
% TRUCKS	0	8	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	471	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 52 % OF FREEWAY TRUCKS

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	2174	812	5768
ET	1.7	1.7	1.7
Fhv	0.93	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	2410	854	6259

CHECKPOINT	VOLUME	LOS
FREEWAY:	6259	D
DIVERGE:	2410	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- AM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #1268
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #1268-31ST ST. -
2010 AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	1822	7089	1220	N.A.
% TRUCKS	0	8	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	471	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	3629	1220	8911
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	4157	1283	9670

CHECKPOINT	VOLUME	LOS
FREEWAY:	9670	F
DIVERGE:	4157	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #1268
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #1268-31ST ST. -
2010 AM ANALYSIS OFF RAMP

****

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	1490	10144	687	N.A.
% TRUCKS	0	8	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	471	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	3123	687	11634
ET	1.7	1.7	1.7
Fhv	0.87	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	3779	738	12891

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	12891	F
DIVERGE:	3779	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 PM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	4719	346	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 41 % OF FREEWAY TRUCKS

RAMP ANALYZED ALONE USING FIGURE I.5- 9

	V1	Vr	Vf
VPH	680	346	4719
ET	1.7	1.7	1.7
Fhv	0.86	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	815	364	5121

CHECKPOINT	VOLUME	LOS
FREEWAY:	5485	C
MERGE:	1179	C

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- AM ANALYSIS ON RAMP

****

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	6753	553	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 62 % OF FREEWAY TRUCKS

RAMP ANALYZED ALONE USING FIGURE I.5- 9

	V1	Vr	Vf
	****	****	*****
VPH	1116	553	6753
ET	1.7	1.7	1.7
Fhv	0.83	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	1415	594	7483

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	8077	F
MERGE:	2009	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS ON RAMP

****

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	7089	520	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 65 % OF FREEWAY TRUCKS

RAMP ANALYZED ALONE USING FIGURE I.5- 9

	V1	Vr	Vf
	****	****	*****
VPH	1179	520	7089
ET	1.7	1.7	1.7
Fhv	0.82	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	1482	547	7693

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	8240	F
MERGE:	2029	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 AM ANALYSIS ON RAMP

****

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #1268
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #1268-31ST ST. -
2010 PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	10144	831	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING FIGURE I.5- 9

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 3000 to 7700 vph

	V1	Vr	Vf
	****	****	*****
VPH	1832	831	10144
ET	1.7	1.7	1.7
Fhv	0.81	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	2381	893	11240

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	12133	F
MERGE:	3274	F

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1014	831	10144
ET	1.7	1.7	1.7
Fhv	0.70	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	1525	893	11240

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	12133	F
MERGE:	2418	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #1268
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #1268-31ST ST. -
2010 PM ANALYSIS ON RAMP

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION1 - EXIT #126B-31ST STREET
- AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	7897	558	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	OFF	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 73 % OF FREEWAY TRUCKS

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1292	558	7897
ET	1.7	1.7	1.7
Fhv	0.80	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	1665	587	8570

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	8570	F
DIVERGE:	1665	D

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION1 - EXIT #126B-31ST STREET
- AM ANALYSIS OFF RAMP

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	7543	295	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	OFF	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 69 % OF FREEWAY TRUCKS

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1020	295	7543
ET	1.7	1.7	1.7
Fhv	0.78	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	1377	317	8358

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	8358	F
DIVERGE:	1377	C

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS OFF RAMP

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	11863	838	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	OFF	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1941	838	11863
ET	1.7	1.7	1.7
Fhv	0.79	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	2533	882	12874

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	12874	F
DIVERGE:	2533	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 AM ANALYSIS OFF RAMP

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	11331	443	N.A.
% TRUCKS	N.A.	8	3	N.A.
RAMP TYPE	N.A.	N.A.	OFF	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1532	443	11331
ET	1.7	1.7	1.7
Fhv	0.76	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	2122	476	12555

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	12555	F
DIVERGE:	2122	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 PM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	7897	516	858
% TRUCKS	N.A.	8	3	0
RAMP TYPE	N.A.	N.A.	ON	OFF
DISTANCE	N.A.	N.A.	N.A.	552

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 73 % OF FREEWAY TRUCKS

RAMP ANALYZED WITH DOWNSTREAM RAMP USING FIGURE 1.5- 10

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 3000 to 7100 vph
Normal range for Vd is 100 to 800 vph
Normal range for Dd is 1500 to 3000 ft

	V1	Vr	Vf
VPH	1606	516	7897
ET	1.7	1.7	1.7
Fhv	0.83	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	1995	543	8570

CHECKPOINT	VOLUME	LOS
FREEWAY:	9113	F
MERGE:	2538	F

RAMP ANALYZED WITH DOWNSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	1558	516	7897
ET	1.7	1.7	1.7
Fhv	0.83	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	1935	543	8570

CHECKPOINT	VOLUME	LOS
FREEWAY:	9113	F
MERGE:	2478	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- AM ANALYSIS ON RAMP

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET
- PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	7543	865	1049
% TRUCKS	N.A.	8	3	0
RAMP TYPE	N.A.	N.A.	ON	OFF
DISTANCE	N.A.	N.A.	N.A.	552

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 69 % OF FREEWAY TRUCKS

RAMP ANALYZED WITH DOWNSTREAM RAMP USING FIGURE I.5- 10

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 3000 to 7100 vph
Normal range for Vd is 100 to 800 vph
Normal range for Od is 1500 to 3000 ft

	V1	Vr	Vf
VPH	1609	865	7543
ET	1.7	1.7	1.7
Fhv	0.85	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	1993	929	8358

CHECKPOINT	VOLUME	LOS
FREEWAY:	9287	F
MERGE:	2922	F

RAMP ANALYZED WITH DOWNSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	1693	865	7543
ET	1.7	1.7	1.7
Fhv	0.85	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	2097	929	8358

CHECKPOINT	VOLUME	LOS
FREEWAY:	9287	F
MERGE:	3026	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST STREET

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .97
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	11863	775	1490
% TRUCKS	N.A.	8	3	0
RAMP TYPE	N.A.	N.A.	ON	OFF
DISTANCE	N.A.	N.A.	N.A.	552

C) RAMP ANALYZED RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED WITH DOWNSTREAM RAMP USING FIGURE 1.5- 10

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 3000 to 7100 vph
Normal range for Vd is 100 to 800 vph
Normal range for Dd is 1500 to 3000 ft

	V1	Vr	Vf
	****	****	*****
VPH	2688	775	11863
ET	1.7	1.7	1.7
Fhv	0.85	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	3260	815	12874

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	13689	F
MERGE:	4075	F

RAMP ANALYZED WITH DOWNSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	2519	775	11863
ET	1.7	1.7	1.7
Fhv	0.84	0.98	0.95
PHF	0.97	0.97	0.97
PCPH	3092	815	12874

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	13689	F
MERGE:	3907	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 AM ANALYSIS ON RAMP

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 1 - EXIT #126B-31ST ST. -
2010 PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 8 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .95
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 4 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	11331	1299	1822
% TRUCKS	N.A.	8	3	0
RAMP TYPE	N.A.	N.A.	ON	OFF
DISTANCE	N.A.	N.A.	N.A.	552

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 75 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED WITH DOWNSTREAM RAMP USING FIGURE I.5- 10

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 3000 to 7100 vph
Normal range for Vr is 300 to 1100 vph
Normal range for Vd is 100 to 800 vph
Normal range for Dd is 1500 to 3000 ft

	V1	Vr	Vf
	****	****	*****
VPH	2713	1299	11331
ET	1.7	1.7	1.7
Fhv	0.85	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	3360	1395	12555

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	13950	F
MERGE:	4755	F

RAMP ANALYZED WITH DOWNSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	2764	1299	11331
ET	1.7	1.7	1.7
Fhv	0.85	0.98	0.95
PHF	0.95	0.95	0.95
PCPH	3423	1395	12555

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	13950	F
MERGE:	4818	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #126B
TIME AND DATE.....

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.
(3) LOOP RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	97	4307	649	N.A.
% TRUCKS	0	6	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	6000	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 56 % OF FREEWAY TRUCKS

RAMP ANALYZED WITH UPSTREAM RAMP USING FIGURE I.5- 7

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Du is 900 to 5700 ft

	V1	Vr	Vf
VPH	1420	649	4404
ET	1.7	1.7	1.7
Fhv	0.93	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	1542	669	4634

CHECKPOINT	VOLUME	LOS
FREEWAY:	4634	C
DIVERGE:	1542	D

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	1025	649	4404
ET	1.7	1.7	1.7
Fhv	0.91	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	1138	669	4634

CHECKPOINT	VOLUME	LOS
FREEWAY:	4634	C
DIVERGE:	1138	C

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - AM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.
(3) LOOP RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	227	6254	968	N.A.
% TRUCKS	0	6	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	6000	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED WITH UPSTREAM RAMP USING FIGURE I.5- 7

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 1100 to 6200 vph
Normal range for Du is 900 to 5700 ft

	V1	Vr	Vf
VPH	2051	968	6481
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	2374	1029	7032

CHECKPOINT	VOLUME	LOS
FREEWAY:	7032	F
DIVERGE:	2374	F

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	1960	968	6481
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	2269	1029	7032

CHECKPOINT	VOLUME	LOS
FREEWAY:	7032	F
DIVERGE:	2269	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA

****

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
ST. - 2010 AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.
(3) LOOP RAMP.

	UPSTREAM RAMP ********	FREEWAY *******	ANALYSIS RAMP ********	DOWNSTREAM RAMP **********
VOLUME	168	6470	975	N.A.
% TRUCKS	0	6	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	6000	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED WITH UPSTREAM RAMP USING FIGURE I.5- 7

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 1100 to 6200 vph
Normal range for Du is 900 to 5700 ft

	V1 ****	Vr ****	Vf *****
VPH	2091	975	6638
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	2347	1005	6984

CHECKPOINT **********	VOLUME ******	LOS ***
FREEWAY:	6984	F
DIVERGE:	2347	F

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1 ****	Vr ****	Vf *****
VPH	1994	975	6638
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	2238	1005	6984

CHECKPOINT **********	VOLUME ******	LOS ***
FREEWAY:	6984	F
DIVERGE:	2238	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.
(3) LOOP RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	394	9395	1454	N.A.
% TRUCKS	0	6	3	N.A.
RAMP TYPE	ON	N.A.	OFF	N.A.
DISTANCE	6000	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED WITH UPSTREAM RAMP USING FIGURE 1.5- 7

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 1100 to 6200 vph
Normal range for Du is 900 to 5700 ft

	V1	Vr	Vf
VPH	3045	1454	9789
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	3524	1545	10622

CHECKPOINT	VOLUME	LOS
FREEWAY:	10622	F
DIVERGE:	3524	F

RAMP ANALYZED WITH UPSTREAM RAMP USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	2954	1454	9789
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	3419	1545	10622

CHECKPOINT	VOLUME	LOS
FREEWAY:	10622	F
DIVERGE:	3419	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
[illegible]

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	4307	495	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 55 % OF FREEWAY TRUCKS

RESULTS USING FIGURE I.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph
Normal range for Vr is 1100 to 3000 vph

ITEM	VPH	Fhv	PCPH
V1	380	0.86	486
V(1+A)	1316	0.92	1445
Va	936	0.98	965
Vb	0	0.98	0
Vf	4307	0.96	4532

Vm1 = 1451 pcph (LOS = D)
Vm2 = 1445 pcph (LOS = C)

Vf(After merge) = 5053 pcph (LOS = D)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
V1	603	0.86	708
V(1+A)	851	0.89	966
Va	248	0.98	256
Vb	248	0.98	256
Vf	4307	0.96	4532

Vm1 = 964 pcph (LOS = B)
Vm2 = 1222 pcph (LOS = C)

Vf(After merge) = 5053 pcph (LOS = D)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	6254	884	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE 1.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph
Normal range for Vr is 1100 to 3000 vph

ITEM	VPH	Fhv	PCPH
V1	535	0.84	774
V(1+A)	2098	0.89	2456
Va	1563	0.98	1661
Vb	0	0.98	0
Vf	6254	0.96	6786

Vm1 = 2435 pcph (LOS = F)
Vm2 = 2456 pcph (LOS = F)

Vf(After merge) = 7745 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
V1	1126	0.84	1396
V(1+A)	1568	0.88	1856
Va	442	0.98	470
Vb	442	0.98	470
Vf	6254	0.96	6786

Vm1 = 1866 pcph (LOS = E)
Vm2 = 2326 pcph (LOS = F)

Vf(After merge) = 7745 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
ST. - 2010 AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	6470	744	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE I.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph
Normal range for Vr is 1100 to 3000 vph

ITEM	VPH	Fhv	PCPH
******	*****	****	******
V1	543	0.84	773
V(1+A)	2080	0.89	2361
Va	1537	0.98	1584
Vb	0	0.98	0
Vf	6470	0.96	6808

Vm1 = 2357 pcph (LOS = F)
Vm2 = 2361 pcph (LOS = F)

Vf(After merge) = 7590 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
******	*****	****	******
V1	1165	0.84	1401
V(1+A)	1537	0.87	1785
Va	372	0.98	383
Vb	372	0.98	383
Vf	6470	0.96	6808

Vm1 = 1784 pcph (LOS = E)
Vm2 = 2168 pcph (LOS = F)

Vf(After merge) = 7590 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
ANALYST..,..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
ST. - 2010 PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	9395	1328	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE I.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph

ITEM	VPH	Fhv	PCPH
V1	777	0.84	1140
V(1+A)	3255	0.90	3767
Va	2478	0.98	2634
Vb	0	0.98	0
Vf	9395	0.96	10194

Vm1 = 3774 pcph (LOS = F)
Vm2 = 3767 pcph (LOS = F)

Vf(After merge) = 11635 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
V1	1691	0.84	2097
V(1+A)	2355	0.88	2788
Va	664	0.98	706
Vb	664	0.98	706
Vf	9395	0.96	10194

Vm1 = 2803 pcph (LOS = F)
Vm2 = 3494 pcph (LOS = F)

Vf(After merge) = 11635 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 EB/NB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
STREET - AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	6256	1043	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	OFF	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING FIGURE I.5- 7

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 1100 to 6200 vph

	V1	Vr	Vf
	****	****	*****
VPH	2034	1043	6256
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	2283	1075	6582

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	6582	F
DIVERGE:	2283	F

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1981	1043	6256
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	2223	1075	6582

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	6582	F
DIVERGE:	2223	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
STREET - AM ANALYSIS OFF RAMP

****

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	6315	1685	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

****

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING FIGURE I.5- 6

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 2400 to 6200 vph

	V1	Vr	Vf
	****	****	*****
VPH	1421	1685	6315
ET	1.7	1.7	1.7
Fhv	0.87	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	1701	1791	6852

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	8643	F
MERGE:	3492	F

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
	****	****	*****
VPH	1137	1685	6315
ET	1.7	1.7	1.7
Fhv	0.84	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	1410	1791	6852

CHECKPOINT	VOLUME	LOS
**********	******	***
FREEWAY:	8643	F
MERGE:	3201	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - PM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 AM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	9398	1567	N.A.
% TRUCKS	N.A.	.6	3	N.A.
RAMP TYPE	N.A.	N.A.	OFF	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING FIGURE I.5- 7

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 1100 to 6200 vph

	V1	Vr	Vf
VPH	3008	1567	9398
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	3376	1615	9888

CHECKPOINT	VOLUME	LOS
FREEWAY:	9888	F
DIVERGE:	3376	F

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	2977	1567	9398
ET	1.7	1.7	1.7
Fhv	0.90	0.98	0.96
PHF	0.99	0.99	0.99
PCPH	3341	1615	9888

CHECKPOINT	VOLUME	LOS
FREEWAY:	9888	F
DIVERGE:	3341	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 AM ANALYSIS OFF RAMP

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 PM ANALYSIS OFF RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) ONE LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	9486	2531	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RAMP ANALYZED ALONE USING FIGURE I.5- 6

WARINING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 2400 to 6200 vph
Normal range for Vr is 100 to 1700 vph

	V1	Vr	Vf
VPH	2194	2531	9486
ET	1.7	1.7	1.7
Fhv	0.87	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	2627	2690	10293

CHECKPOINT	VOLUME	LOS
FREEWAY:	12983	F
MERGE:	5317	F

RAMP ANALYZED ALONE USING APPROXIMATION METHOD

	V1	Vr	Vf
VPH	1707	2531	9486
ET	1.7	1.7	1.7
Fhv	0.84	0.98	0.96
PHF	0.96	0.96	0.96
PCPH	2117	2690	10293

CHECKPOINT	VOLUME	LOS
FREEWAY:	12983	F
MERGE:	4807	F

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
[illegible]

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
STREET - AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	6256	2029	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE I.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph

ITEM	VPH	Fhv	PCPH
******	*****	****	******
V1	591	0.84	807
V(1+A)	2757	0.92	3027
Va	2166	0.98	2233
Vb	0	0.98	0
Vf	6256	0.96	6582

Vm1 = 3040 pcph (LOS = F)
Vm2 = 3027 pcph (LOS = F)

Vf(After merge) = 8717 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
******	*****	****	******
V1	1126	0.84	1354
V(1+A)	2141	0.90	2403
Va	1015	0.98	1046
Vb	1015	0.98	1046
Vf	6256	0.96	6582

Vm1 = 2400 pcph (LOS = F)
Vm2 = 3449 pcph (LOS = F)

Vf(After merge) = 8717 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA
STREET - AM ANALYSIS ON RAMP

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA STREET - PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	6315	1432	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE I.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph

ITEM	VPH	Fhv	PCPH
V1	566	0.84	808
V(1+A)	2431	0.90	2814
Va	1865	0.98	1982
Vb	0	0.98	0
Vf	6315	0.96	6852

Vm1 = 2790 pcph (LOS = F)
Vm2 = 2814 pcph (LOS = F)

Vf(After merge) = 8406 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
V1	1137	0.84	1410
V(1+A)	1853	0.89	2169
Va	716	0.98	761
Vb	716	0.98	761
Vf	6315	0.96	6852

Vm1 = 2171 pcph (LOS = F)
Vm2 = 2930 pcph (LOS = F)

Vf(After merge) = 8406 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 AM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .99
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:
****
(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
	********	*******	********	**********
VOLUME	N.A.	9398	3048	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE I.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph
Normal range for Vr is 1100 to 3000 vph

ITEM	VPH	Fhv	PCPH
******	*****	****	******
V1	861	0.84	1191
V(1+A)	4245	0.92	4661
Va	3384	0.98	3488
Vb	0	0.98	0
Vf	9398	0.96	9888

Vm1 = 4679 pcph (LOS = F)
Vm2 = 4661 pcph (LOS = F)

Vf(After merge) = 13096 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
******	*****	****	******
V1	1692	0.84	2035
V(1+A)	3216	0.90	3609
Va	1524	0.98	1571
Vb	1524	0.98	1571
Vf	9398	0.96	9888

Vm1 = 3606 pcph (LOS = F)
Vm2 = 5180 pcph (LOS = F)

Vf(After merge) = 13096 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 AM ANALYSIS ON RAMP

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
ANALYST..... MF
TIME OF ANALYSIS.....
DATE OF ANALYSIS.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA ST. - 2010 PM ANALYSIS ON RAMP

A) ADJUSTMENT FACTORS

PERCENTAGE OF TRUCKS..... 6 (Typical - 200 #/HP)
PEAK HOUR FACTOR..... .96
HIGHWAY DESIGN SPEED (mph)..... 70
(BUSES AND RV'S ARE CONSIDERED AS TRUCKS)

LEVEL TERRAIN

B) INPUT INFORMATION

NO. OF LANES ON FREEWAY : 3 (per direction)

ANALYSIS RAMP CHARACTERISTICS:

(1) RIGHT-HAND RAMP.
(2) TWO LANE RAMP.

	UPSTREAM RAMP	FREEWAY	ANALYSIS RAMP	DOWNSTREAM RAMP
VOLUME	N.A.	9486	2151	N.A.
% TRUCKS	N.A.	6	3	N.A.
RAMP TYPE	N.A.	N.A.	ON	N.A.
DISTANCE	N.A.	N.A.	N.A.	N.A.

C) RAMP ANALYSIS RESULTS

TRUCK PRESENCE IN LANE 1: 80 % OF FREEWAY TRUCKS

WARNING: % trucks in lane 1, ... Volume is outside Fig 5.6

RESULTS USING FIGURE 1.5- 11

WARNING! IN USING THIS NOMOGRAPH:
Normal range for Vf is 600 to 3000 vph

ITEM	VPH	Fhv	PCPH
V1	823	0.84	1191
V(1+A)	3754	0.91	4297
Va	2931	0.98	3115
Vb	0	0.98	0
Vf	9486	0.96	10293

Vm1 = 4306 pcph (LOS = F)
Vm2 = 4297 pcph (LOS = F)

Vf(After merge) = 12627 pcph (LOS = F)

FIRST RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

SECOND RAMP RESULTS USING APPROXIMATION METHOD (NOTE 3)

ITEM	VPH	Fhv	PCPH
V1	1707	0.84	2117
V(1+A)	2783	0.89	3257
Va	1076	0.98	1144
Vb	1076	0.98	1144
Vf	9486	0.96	10293

Vm1 = 3261 pcph (LOS = F)
Vm2 = 4401 pcph (LOS = F)

Vf(After merge) = 12627 pcph (LOS = F)

IDENTIFYING INFORMATION

FACILITY LOCATION.... I-20/59 WB/SB @ EXIT #128
TIME AND DATE.....
OTHER INFORMATION.... CMS LOCATION 8 - EXIT #128-TALLAPOOSA