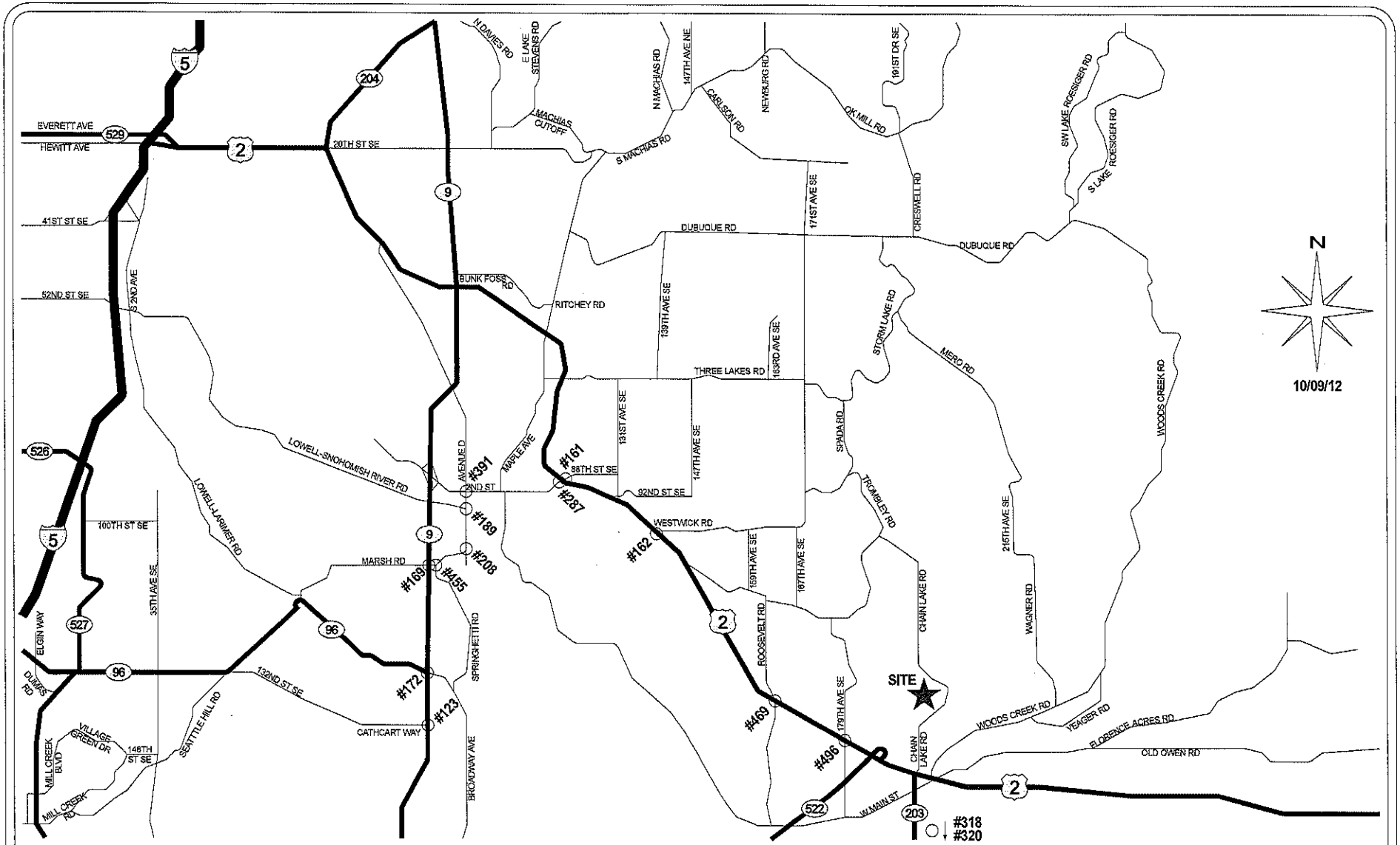
Snohomish County Key Intersection Impacts



GIBSON TRAFFIC CONSULTANTS

TRAFFIC IMPACT STUDY
GTC #12-087

EAGLEMONT
149 SINGLE-FAMILY UNITS

CITY OF MONROE

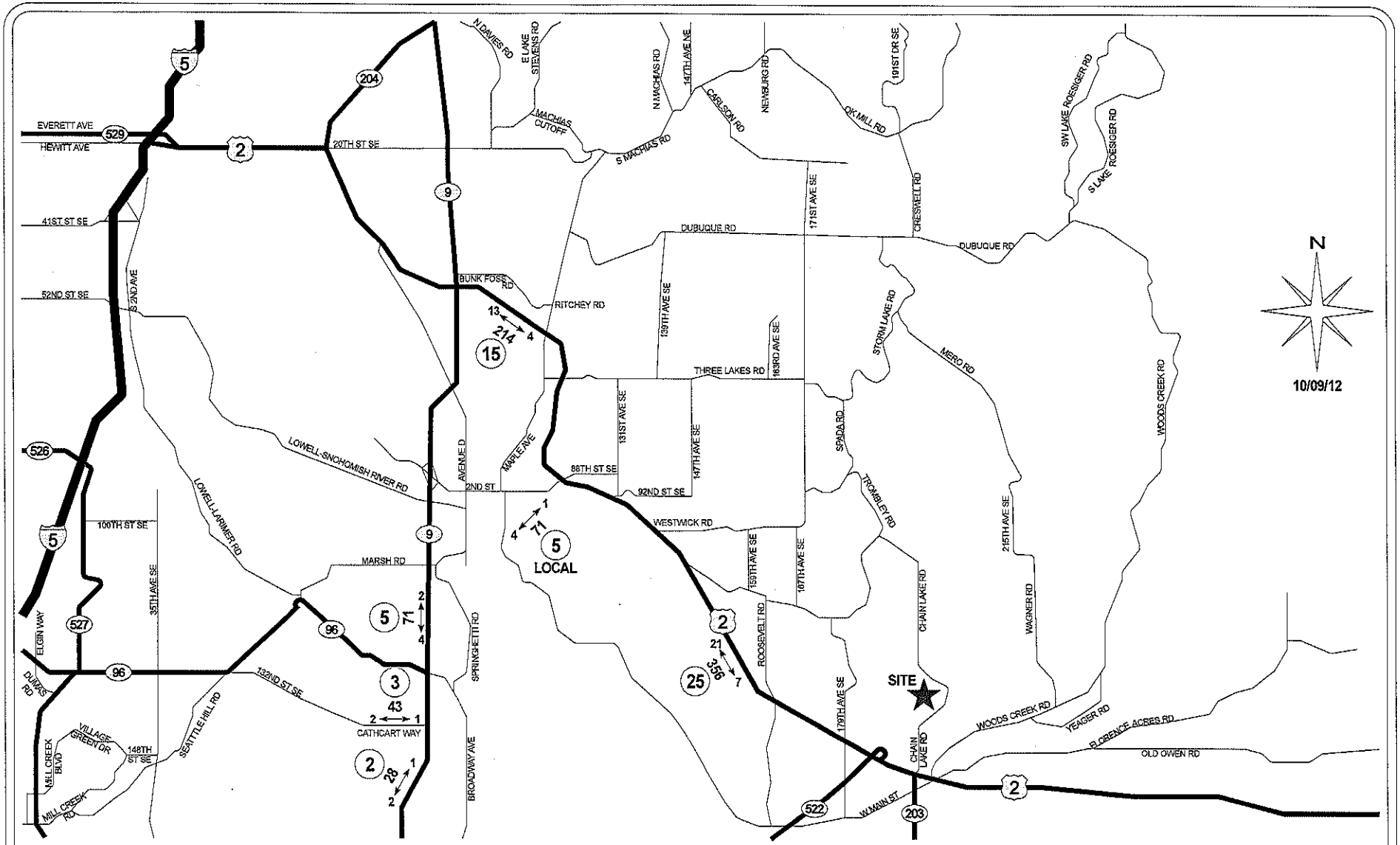
LEGEND

★ DEVELOPMENT SITE

KEY INTERSECTION

FIGURE A

KEY INTERSECTION LOCATIONS



GIBSON TRAFFIC CONSULTANTS

TRAFFIC IMPACT STUDY
GTC #12-087

EAGLEMONT
149 SINGLE-FAMILY UNITS

CITY OF MONROE

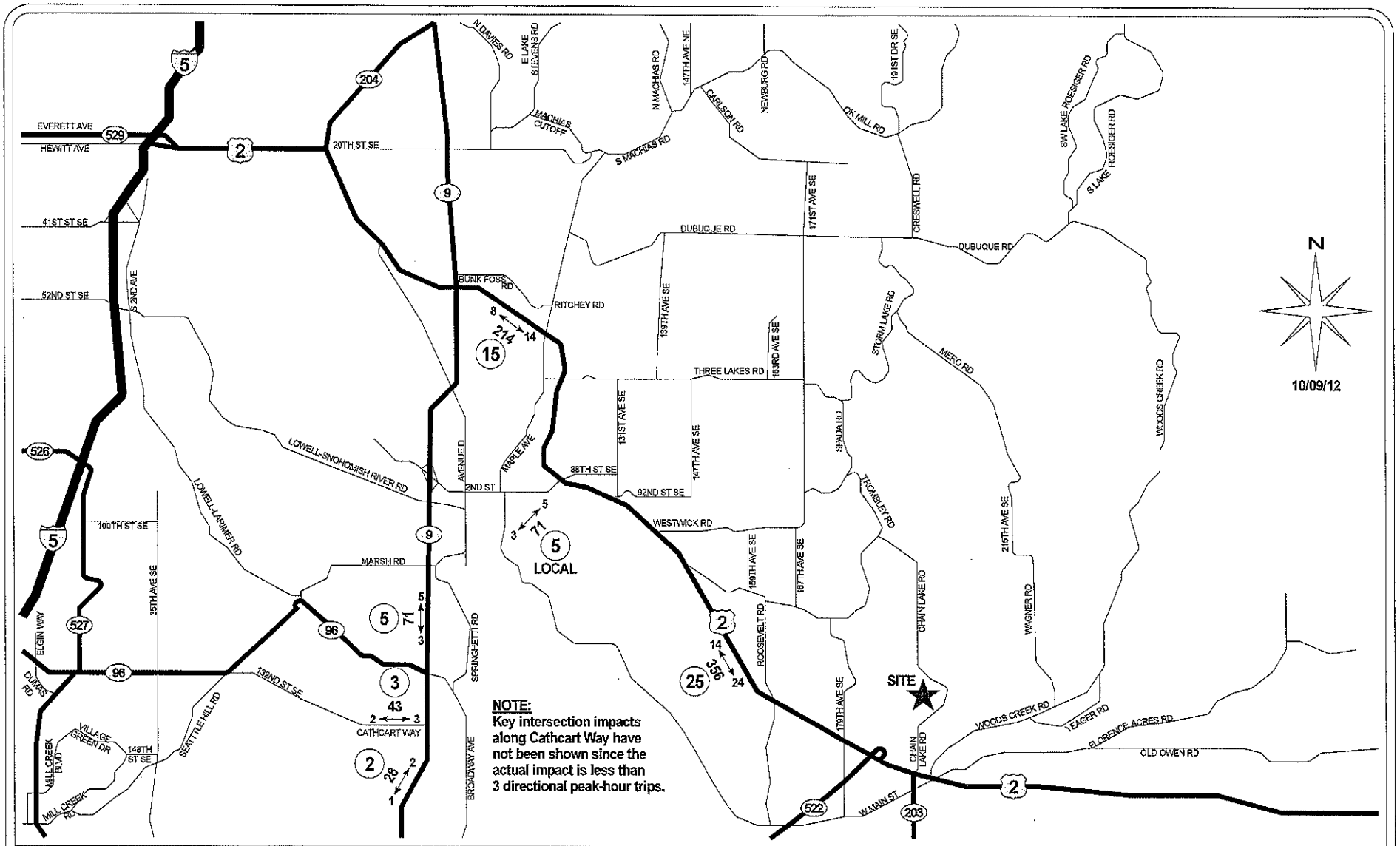
LEGEND

AWDT
PM ← → PEAK — NEW SITE TRAFFIC DAILY AND PM PEAK-HOUR

(XX) — TRIP DISTRIBUTION %

FIGURE B

DEVELOPMENT
TRIP DISTRIBUTION
AM PEAK-HOUR



GIBSON TRAFFIC CONSULTANTS

TRAFFIC IMPACT STUDY
GTC #12-087

EAGLEMONT
149 SINGLE-FAMILY UNITS

CITY OF MONROE

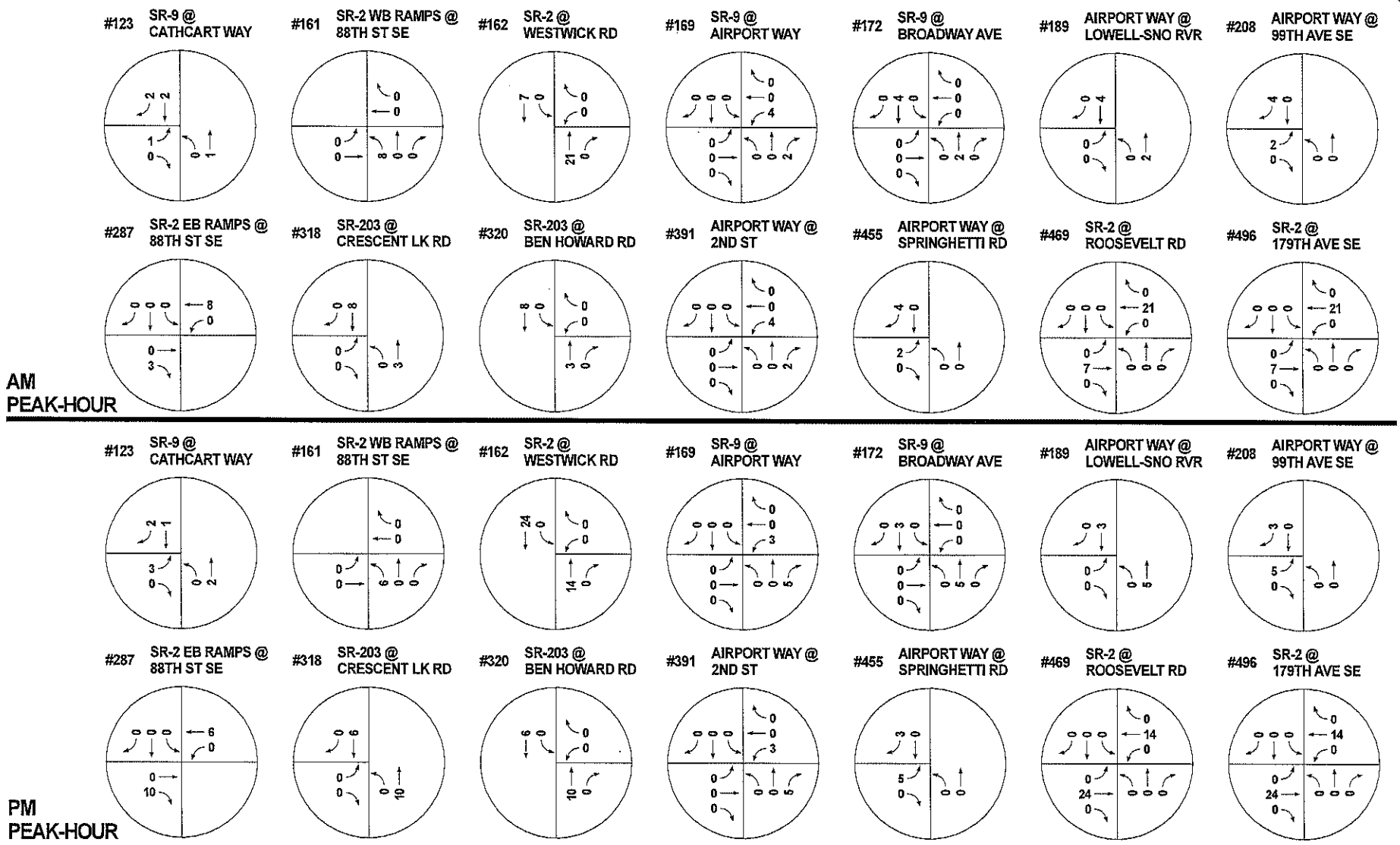
LEGEND

AWDT
PM ← → PEAK — NEW SITE TRAFFIC DAILY AND PM PEAK-HOUR

(XX) — TRIP DISTRIBUTION %

FIGURE C

DEVELOPMENT TRIP DISTRIBUTION PM PEAK-HOUR



GIBSON TRAFFIC CONSULTANTS

TRAFFIC IMPACT STUDY
GTC #12-087

EAGLEMONT
149 SINGLE-FAMILY UNITS

CITY OF MONROE

LEGEND

XX→ PEAK HOUR TURNING MOVEMENT VOLUME

FIGURE D

DEVELOPMENT
KEY INTERSECTION VOLUMES
AM & PM PEAK-HOURS

AM Peak-Hour Key Intersection Volumes

Intersection	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
#123: SR-9 at Cathcart Way	1	NA	0	NA	NA	NA	0	1	NA	NA	2	2
#161: SR-2 WB Ramps @ 88th St SE	0	0	NA	NA	0	0	8	0	0	NA	NA	NA
#162: SR-2 at Westwick Rd	NA	NA	NA	0	NA	0	NA	21	0	0	7	NA
#169: SR-9 at Airport Way	0	0	0	4	0	0	0	0	2	0	0	0
#172: SR-9 at Broadway Ave	0	0	0	0	0	0	0	2	0	0	4	0
#189: Airport Way at Lowell-Sno Rvr	0	NA	0	NA	NA	NA	0	2	NA	NA	4	0
#208: Airport Way at 99th Ave SE	2	NA	0	NA	NA	NA	0	0	NA	NA	0	4
#287: SR-2 EB Ramps at 88th St SE	NA	0	3	0	8	NA	NA	NA	NA	0	0	0
#318: SR-203 at Crescent Lk Rd	0	NA	0	NA	NA	NA	0	3	NA	NA	8	0
#320: SR-203 at Ben Howard Rd	NA	NA	NA	0	NA	0	NA	3	0	0	8	NA
#391: Airport Way at 2nd St	0	0	0	4	0	0	0	0	2	0	0	0
#455: Airport Way at Springhetti Rd	2	NA	0	NA	NA	NA	0	0	NA	NA	0	4
#469: SR-2 at Roosevelt Rd	0	7	0	0	21	0	0	0	0	0	0	0
#496: SR-2 at 179th Ave SE	0	7	0	0	21	0	0	0	0	0	0	0

PM Peak-Hour Key Intersection Volumes

Intersection	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
#123: SR-9 at Cathcart Way	31	NA	0	NA	NA	NA	0	2	NA	NA	1	2
#161: SR-2 WB Ramps @ 88th St SE	0	0	NA	NA	0	0	6	0	0	NA	NA	NA
#162: SR-2 at Westwick Rd	NA	NA	NA	0	NA	0	NA	14	0	0	24	NA
#169: SR-9 at Airport Way	0	0	0	3	0	0	0	0	5	0	0	0
#172: SR-9 at Broadway Ave	0	0	0	0	0	0	0	5	0	0	3	0
#189: Airport Way at Lowell-Sno Rvr	0	NA	0	NA	NA	NA	0	5	NA	NA	3	0
#208: Airport Way at 99th Ave SE	5	NA	0	NA	NA	NA	0	0	NA	NA	0	3
#287: SR-2 EB Ramps at 88th St SE	NA	0	10	0	6	NA	NA	NA	NA	0	0	0
#318: SR-203 at Crescent Lk Rd	0	NA	0	NA	NA	NA	0	10	NA	NA	6	0
#320: SR-203 at Ben Howard Rd	NA	NA	NA	0	NA	0	NA	10	0	0	6	NA
#391: Airport Way at 2nd St	0	0	0	3	0	0	0	0	5	0	0	0
#455: Airport Way at Springhetti Rd	5	NA	0	NA	NA	NA	0	0	NA	NA	0	3
#469: SR-2 at Roosevelt Rd	0	24	0	0	14	0	0	0	0	0	0	0
#496: SR-2 at 179th Ave SE	0	24	0	0	14	0	0	0	0	0	0	0

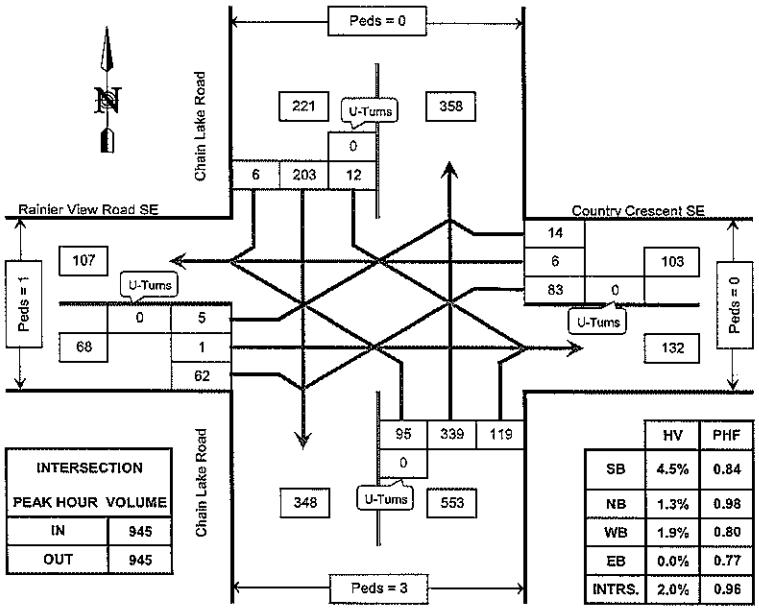
Turning Movement Volumes

C

TRAFFIC DATA GATHERING

TURNING MOVEMENTS DIAGRAM

4:00 - 6:00 PM PEAK HOUR: 5:00 PM TO 6:00 PM



INTERSECTION PEAK HOUR VOLUME	
IN	945
OUT	945

	HV	PHF
SB	4.5%	0.84
NB	1.3%	0.98
WB	1.9%	0.80
EB	0.0%	0.77
INTRS.	2.0%	0.96

PHF = Peak Hour Factor
HV = Heavy Vehicles

Chain Lake Road @ Country Crescent SE

Monroe, WA

COUNTED BY: JH

REDUCED BY: CN

REDUCTION DATE: Mon. 10/1/12

DATE OF COUNT: Thu. 9/27/12

TIME OF COUNT: 4:00 - 6:00 PM

WEATHER: Sunny

TRAFFIC DATA GATHERING

INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

LOCATION: Chain Lake Road @ Country Crescent SE
Monroe, WA

DATE OF COUNT: Thu. 9/27/12
TIME OF COUNT: 4:00 - 6:00 PM

COUNTED BY: JH
WEATHER: Sunny

TIME INTERVAL ENDING AT	FROM NORTH ON Chain Lake Road						FROM SOUTH ON Chain Lake Road						FROM EAST ON Country Crescent SE						FROM WEST ON Rainier View Road SE						INTERVAL TOTALS
	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	1	0	6	30	2	2	1	0	14	74	35	0	1	0	17	0	5	2	0	0	1	0	12	106
04:30 PM	0	2	0	2	36	0	0	3	0	16	68	33	0	0	0	24	2	8	0	0	0	0	2	8	209
04:45 PM	0	0	0	2	42	0	0	4	0	18	83	30	0	0	0	11	2	4	0	0	0	0	1	16	209
05:00 PM	0	5	0	2	58	1	1	1	0	24	81	26	0	0	0	19	0	3	1	0	0	1	0	18	233
05:15 PM	0	3	0	0	44	2	1	4	0	21	93	27	0	1	0	21	1	3	0	0	0	2	1	14	229
05:30 PM	0	1	0	5	41	0	1	1	0	25	88	28	0	1	0	14	1	4	0	0	0	0	0	18	224
05:45 PM	0	3	0	3	58	2	1	1	0	26	80	35	0	0	0	24	3	5	1	0	0	1	0	10	247
06:00 PM	0	3	0	4	60	2	0	1	0	23	78	29	0	0	0	24	1	2	0	0	0	2	0	20	245
PEAK HOUR TOTALS	0	10	0	12	203	6	3	7	0	95	339	119	0	2	0	83	6	14	1	0	0	5	1	62	INTERSECTION
ALL MOVEMENTS	221						553						103						68						945
% HV	4.5%						1.3%						1.9%						0.0%						2.0%
PEAK HOUR FACTOR	0.84						0.98						0.80						0.77						0.96

PHF = Peak Hour Factor

4:00 - 6:00 PM PEAK HOUR: 5:00 PM TO 6:00 PM

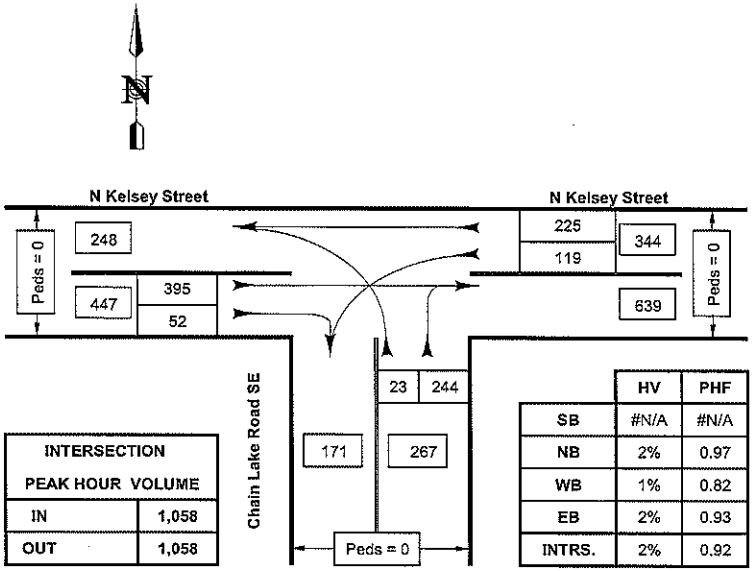
REDUCED BY: CN

DATE OF REDUCTION: 10/1/2012

TRAFFIC DATA GATHERING

TURNING MOVEMENTS DIAGRAM

4:00 - 6:00 PM PEAK HOUR: 4:45 PM TO 5:45 PM



INTERSECTION PEAK HOUR VOLUME	
IN	1,058
OUT	1,058

	HV	PHF
SB	#N/A	#N/A
NB	2%	0.97
WB	1%	0.82
EB	2%	0.93
INTRS.	2%	0.92

HV = HEAVY VEHICLES

PHF = PEAK HOUR FACTOR

Chain Lake Road @ N Kelsey Street

Woodinville, WA

COUNTED BY:	JH	DATE OF COUNT:	Thu. 9/20/12
REDUCED BY:	CN	TIME OF COUNT:	4:00 - 6:00 PM
DATE OF REDUCTION:	Fri. 9/21/12	WEATHER:	Sunny

TRAFFIC DATA GATHERING

INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

LOCATION:	Chain Lake Road @ N Kelsey Street Woodinville, WA	DATE OF COUNT:	Thu. 9/20/12
		TIME OF COUNT:	4:00 - 6:00 PM
COUNTED BY:	JH	WEATHER:	Sunny

TIME INTERVAL ENDING AT	FROM NORTH ON					FROM SOUTH ON Chain Lake Road SE					FROM EAST ON N Kelsey Street					FROM WEST ON N Kelsey Street					INTERVAL TOTALS
	Peds	HV	Left	Thru	Right	Peds	HV	Left	Thru	Right	Peds	HV	Left	Thru	Right	Peds	HV	Left	Thru	Right	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	2	8	0	49	0	0	23	55	0	0	2	0	75	15	225
04:30 PM	0	0	0	0	0	0	3	5	0	51	0	2	20	49	0	0	1	0	86	17	228
04:45 PM	0	0	0	0	0	0	0	5	0	44	0	10	23	73	0	2	3	0	66	10	221
05:00 PM	0	0	0	0	0	0	0	5	0	64	0	1	30	53	0	0	3	0	93	13	258
05:15 PM	0	0	0	0	0	0	4	5	0	59	0	1	26	47	0	0	2	0	108	12	250
05:30 PM	0	0	0	0	0	0	3	5	0	63	0	1	30	51	0	0	2	0	88	15	252
05:45 PM	0	0	0	0	0	0	2	8	0	58	0	2	31	74	0	0	2	0	106	12	280
06:00 PM	0	0	0	0	0	0	3	3	0	53	0	2	33	53	0	0	1	0	83	15	240
PEAK HOUR TOTALS	0	0	0	0	0	0	5	23	0	244	0	5	119	225	0	0	9	0	395	52	INTERSECTION
ALL MOVEMENTS	0					267					344					447					1058
% HV	#N/A					2%					1%					2%					2%
PEAK HOUR FACTOR	#N/A					0.97					0.82					0.93					0.92

PHF = Peak Hour Factor

4:00 - 6:00 PM PEAK HOUR: 4:45 PM TO 5:45 PM

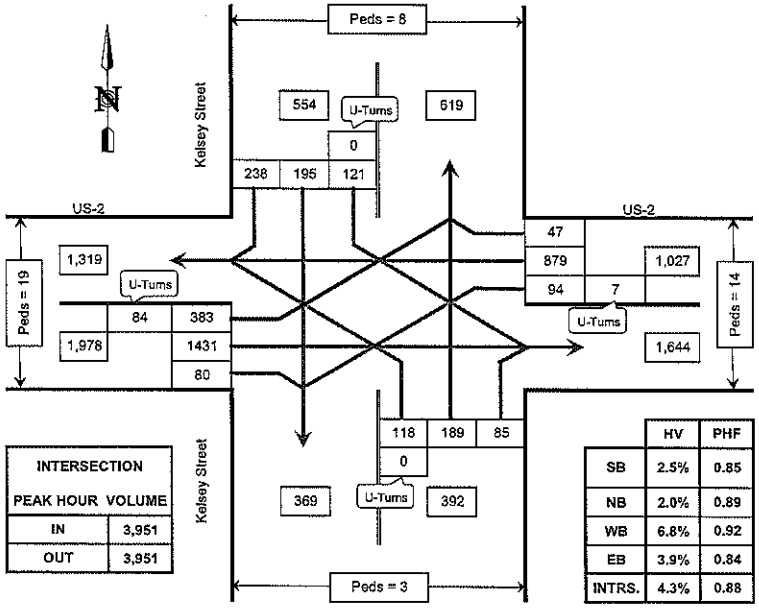
REDUCED BY: CN

DATE OF REDUCTION: 9/21/2012

TRAFFIC DATA GATHERING

TURNING MOVEMENTS DIAGRAM

4:00 - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM



INTERSECTION PEAK HOUR VOLUME	
IN	3,951
OUT	3,951

	HV	PHF
SB	2.5%	0.85
NB	2.0%	0.89
WB	6.8%	0.92
EB	3.9%	0.84
INTRS.	4.3%	0.88

PHF = Peak Hour Factor
HV = Heavy Vehicles

Kelsey Street @ US-2

Monroe, WA

COUNTED BY: CN/PB
DATE OF COUNT: Thu. 9/27/12
REDUCED BY: CN
TIME OF COUNT: 4:00 - 6:00 PM
REDUCTION DATE: Mon. 10/1/12
WEATHER: Sunny

TRAFFIC DATA GATHERING

INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

LOCATION: Kelsey Street @ US-2, Monroe, WA
DATE OF COUNT: Thu. 9/27/12
TIME OF COUNT: 4:00 - 6:00 PM
COUNTED BY: CN/PB
WEATHER: Sunny

TIME INTERVAL ENDING AT	FROM NORTH ON Kelsey Street						FROM SOUTH ON Kelsey Street						FROM EAST ON US-2						FROM WEST ON US-2						INTERVAL TOTALS
	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	4	0	0	38	46	48	2	0	0	22	45	32	6	13	3	29	252	14	3	23	10	100	302	33	864
04:30 PM	6	3	0	25	43	59	1	5	0	29	46	25	5	16	2	23	224	10	6	23	15	75	345	15	936
04:45 PM	1	3	0	32	48	51	0	0	0	29	41	21	1	25	2	28	238	12	4	15	21	82	327	22	954
05:00 PM	0	3	0	29	50	55	0	1	0	22	48	21	1	13	1	25	192	16	3	20	25	103	334	22	943
05:15 PM	2	6	0	35	54	73	2	2	0	38	54	18	7	21	2	18	225	9	6	20	23	123	475	21	1115
05:30 PM	0	0	0	23	46	42	1	2	0	27	40	27	7	14	3	35	194	9	3	15	22	96	300	18	682
05:45 PM	1	1	0	24	58	50	1	0	0	38	66	11	1	9	3	32	168	12	12	14	20	80	288	21	898
06:00 PM	1	3	0	35	60	60	1	0	0	18	40	17	1	10	6	23	217	19	6	17	14	95	281	22	997
PEAK HOUR TOTALS	8	14	0	121	195	238	3	8	0	118	189	85	14	75	7	94	879	47	19	73	84	383	1431	80	INTERSECTION
ALL MOVEMENTS	554						392						1027						1976						3951
% HV	2.5%						2.0%						6.8%						3.9%						4.3%
PEAK HOUR FACTOR	0.85						0.89						0.92						0.84						0.88

PHF = Peak Hour Factor

4:00 - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM

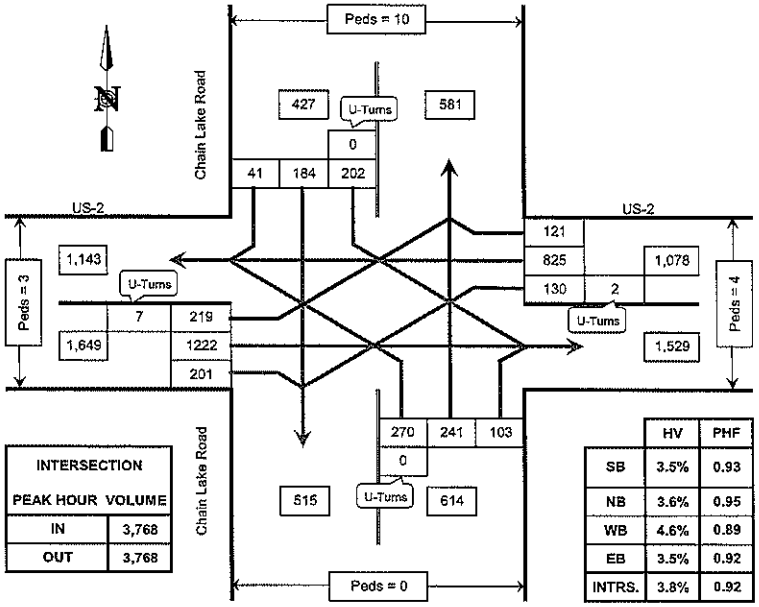
REDUCED BY: CN

DATE OF REDUCTION: 10/1/2012

TRAFFIC DATA GATHERING

TURNING MOVEMENTS DIAGRAM

4:00 - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM



INTERSECTION PEAK HOUR VOLUME	
IN	3,768
OUT	3,768

	HV	PHF
SB	3.5%	0.93
NB	3.6%	0.95
WB	4.6%	0.89
EB	3.5%	0.92
INTRS.	3.8%	0.92

PHF = Peak Hour Factor
HV = Heavy Vehicles

Chain Lake Road @ US-2

Monroe, WA

COUNTED BY: JH

DATE OF COUNT: Tue. 10/2/12

REDUCED BY: CN

TIME OF COUNT: 4:00 - 6:00 PM

REDUCTION DATE: Tue. 10/2/12

WEATHER: Sunny

TRAFFIC DATA GATHERING

INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

LOCATION: Chain Lake Road @ US-2, Monroe, WA

DATE OF COUNT: Tue. 10/2/12

TIME OF COUNT: 4:00 - 6:00 PM

COUNTED BY: JH

WEATHER: Sunny

TIME INTERVAL ENDING AT	FROM NORTH ON Chain Lake Road						FROM SOUTH ON Chain Lake Road						FROM EAST ON US-2						FROM WEST ON US-2						INTERVAL TOTALS
	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	Peds	HV	UTurn	Left	Thru	Right	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	1	0	50	36	3	1	0	0	60	53	30	0	15	1	25	173	38	1	17	3	66	226	46	897
04:30 PM	1	1	0	52	35	9	0	0	0	62	54	27	0	16	0	29	217	32	0	20	1	50	255	54	877
04:45 PM	3	3	0	49	50	6	0	6	0	72	64	16	1	16	0	28	210	33	1	13	2	53	313	49	945
05:00 PM	5	5	0	43	63	9	0	8	0	82	68	27	0	6	0	40	158	29	1	16	2	54	316	53	924
05:15 PM	1	6	0	58	36	17	0	1	0	74	55	33	0	12	2	33	240	27	1	7	2	62	338	45	1622
05:30 PM	1	2	0	42	47	13	0	7	0	58	58	24	0	9	0	33	201	23	1	6	0	45	240	48	842
05:45 PM	1	1	0	50	42	12	0	9	0	62	60	28	1	8	3	42	167	13	0	12	1	68	272	44	862
06:00 PM	0	1	0	55	35	16	0	14	0	68	42	29	0	8	0	41	190	25	0	6	0	55	237	54	845
PEAK HOUR TOTALS	15	15	0	202	184	41	0	22	0	270	241	103	4	50	2	130	825	121	3	58	7	219	1222	201	INTERSECTION
ALL MOVEMENTS	427						614						1078						1649						3768
% HV	3.5%						3.6%						4.6%						3.5%						3.8%
PEAK HOUR FACTOR	0.93						0.95						0.89						0.92						0.92

PHF = Peak Hour Factor

4:00 - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM

REDUCED BY: CN

DATE OF REDUCTION: 10/2/2012

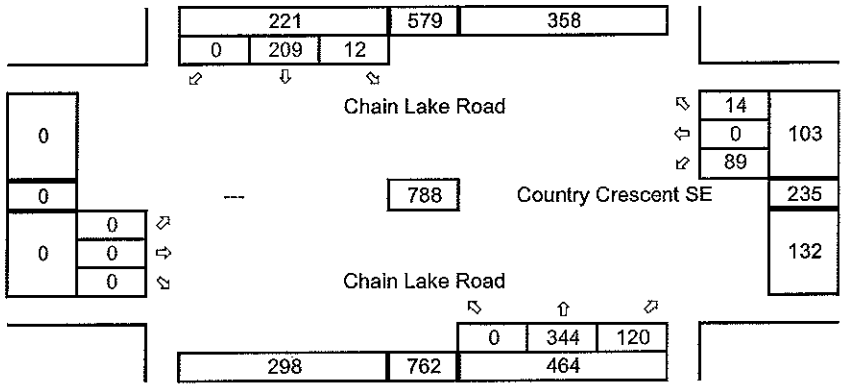
1 Chain Lake Rd @ Country Cres.

Synchro ID: 1

Existing Volumes
Average Weekday
PM Peak-Hour

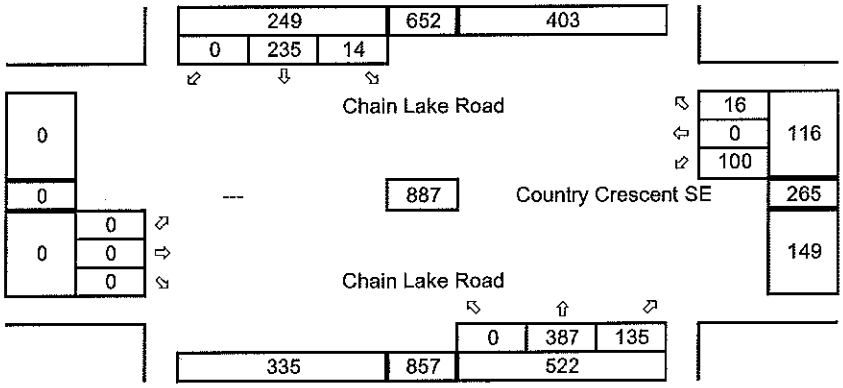
Year: **9/27/2012**

Data Source: **TDG**

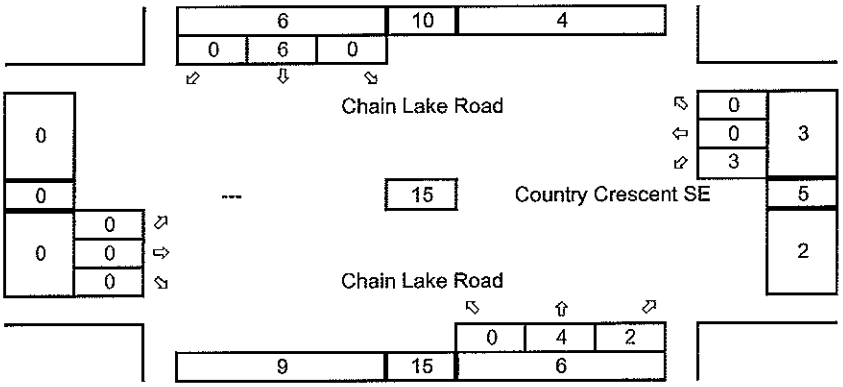


Baseline Volumes
Average Weekday
PM Peak-Hour

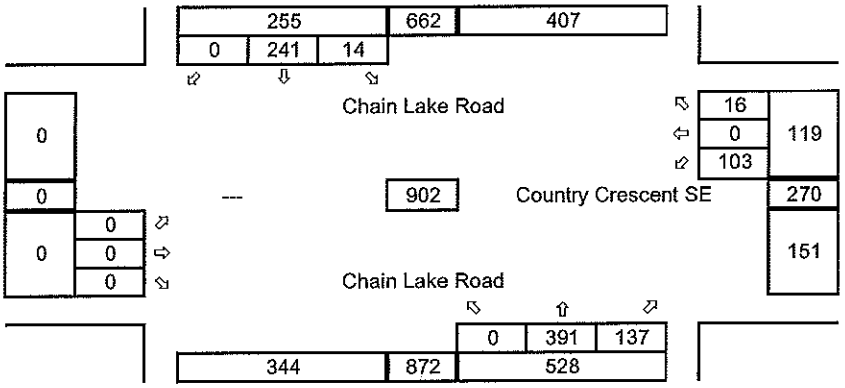
Year: 2018
Growth Rate = 2.0%
Years of Growth = 6
Total Growth = 1.1262



Development Trips
Average Weekday
PM Peak-Hour



Future with Dev. Volumes
Average Weekday
PM Peak-Hour



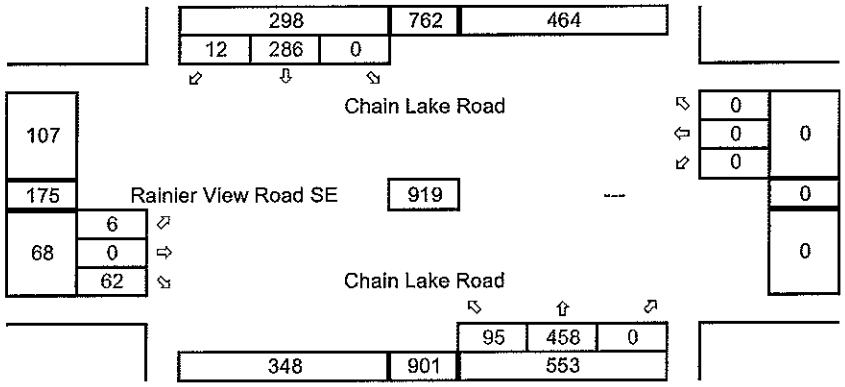
2 Chain Lake Rd @ Rainier View

Synchro ID: 2

Existing Volumes
Average Weekday
PM Peak-Hour

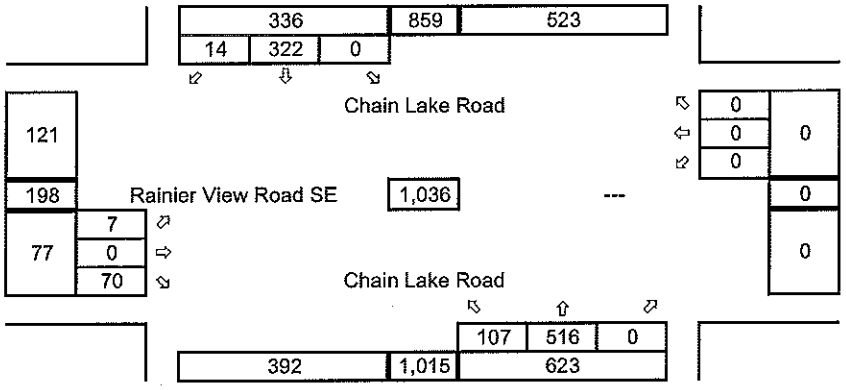
Year: **9/27/2012**

Data Source: **TDG**

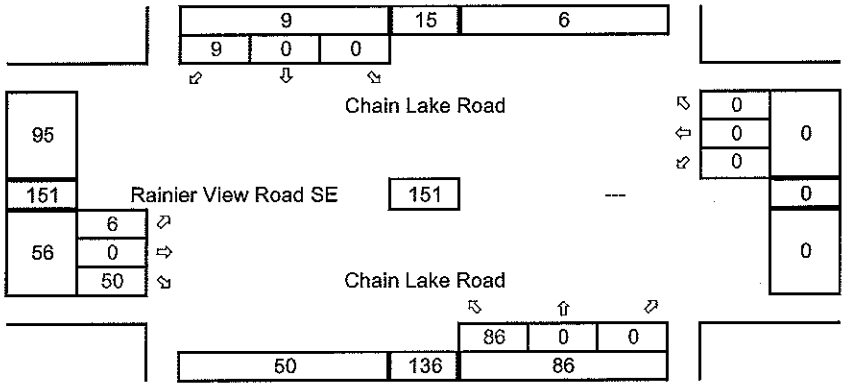


Baseline Volumes
Average Weekday
PM Peak-Hour

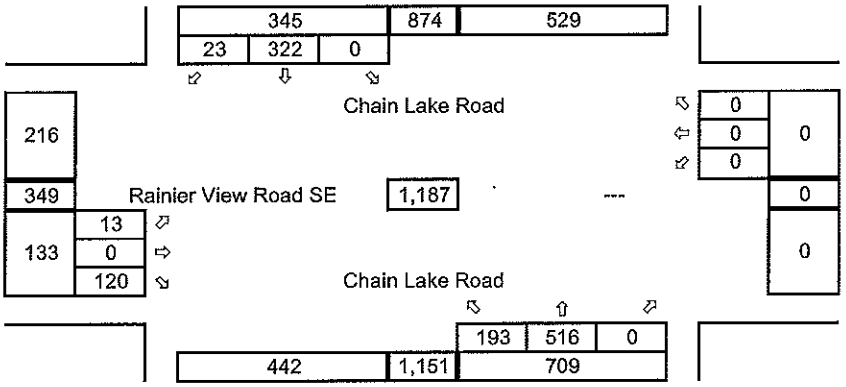
Year: 2018
Growth Rate = 2.0%
Years of Growth = 6
Total Growth = 1.1262



Development Trips
Average Weekday
PM Peak-Hour



Future with Dev. Volumes
Average Weekday
PM Peak-Hour



3 Chain Lake Rd @ N Kelsey St

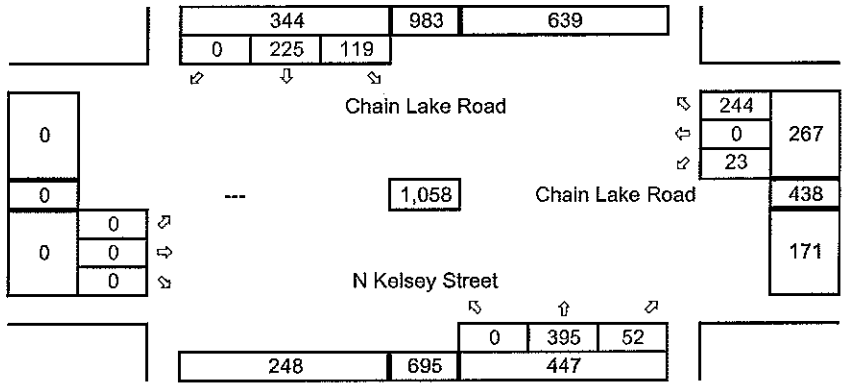
Synchro ID: 3

Existing Volumes
Average Weekday
PM Peak-Hour

Year: **9/20/2012**

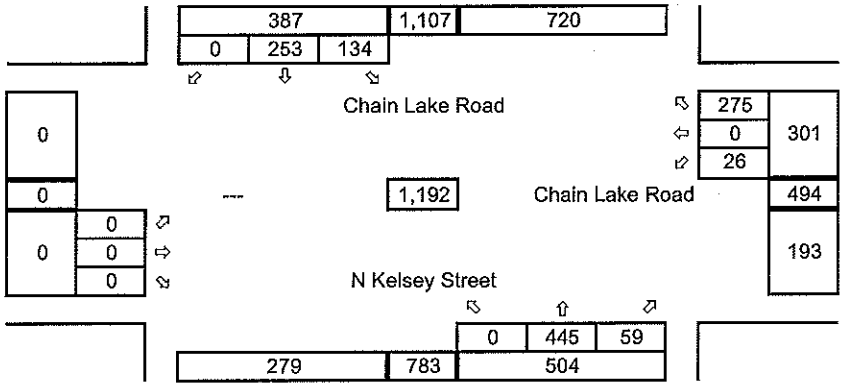
Data Source: **TDG**

The volumes have been rotated 90-degrees counterclockwise from the count data.

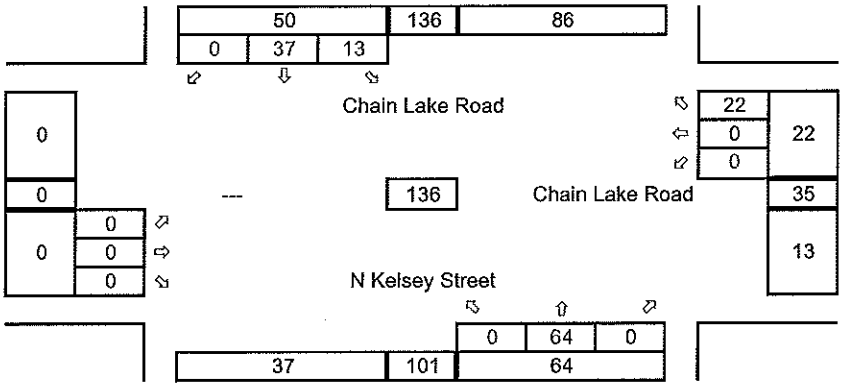


Baseline Volumes
Average Weekday
PM Peak-Hour

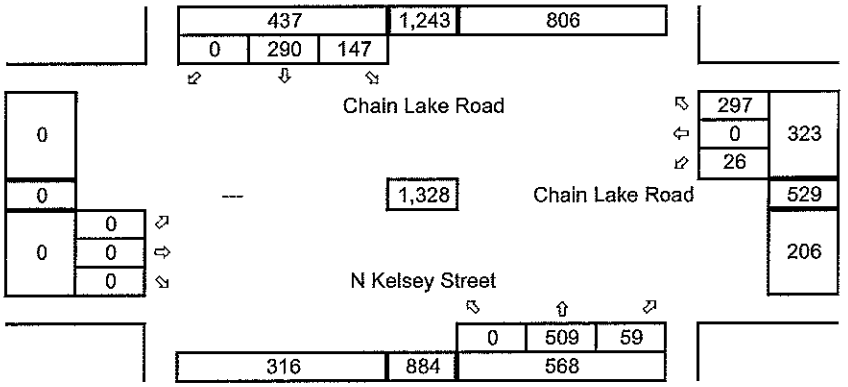
Year: 2018
Growth Rate = 2.0%
Years of Growth = 6
Total Growth = 1.1262



Development Trips
Average Weekday
PM Peak-Hour



Future with Dev. Volumes
Average Weekday
PM Peak-Hour



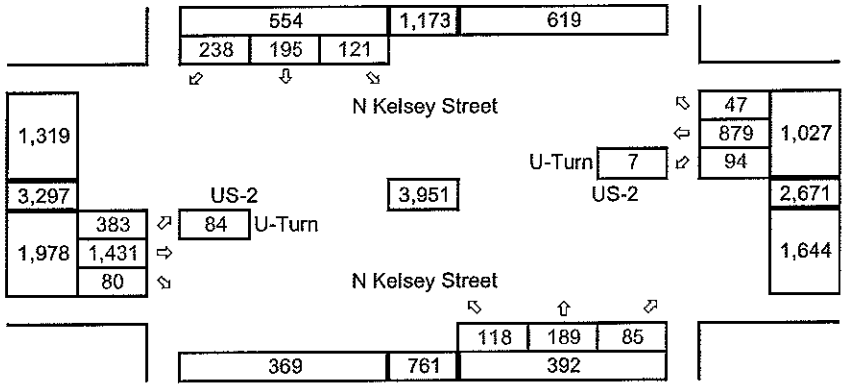
4 N Kelsey St @ US-2

Synchro ID: 4

Existing Volumes
Average Weekday
PM Peak-Hour

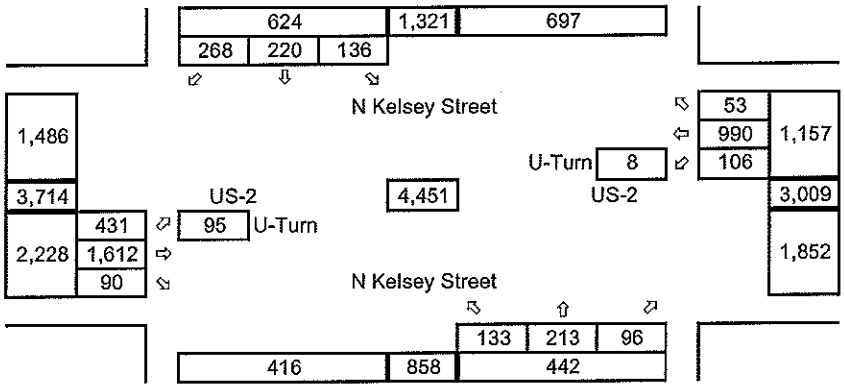
Year: **9/27/2012**

Data Source: **TDG**

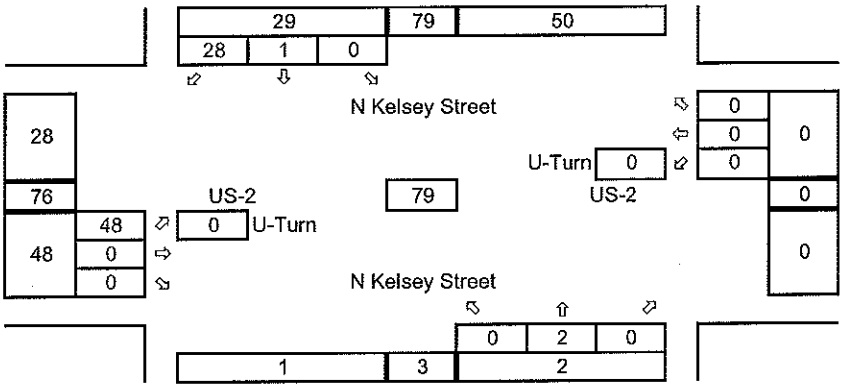


Baseline Volumes
Average Weekday
PM Peak-Hour

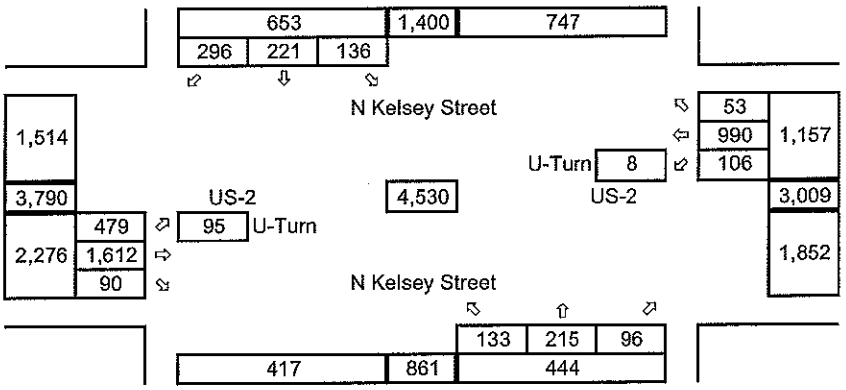
Year: 2018
Growth Rate = 2.0%
Years of Growth = 6
Total Growth = 1.1262



Development Trips
Average Weekday
PM Peak-Hour



Future with Dev. Volumes
Average Weekday
PM Peak-Hour



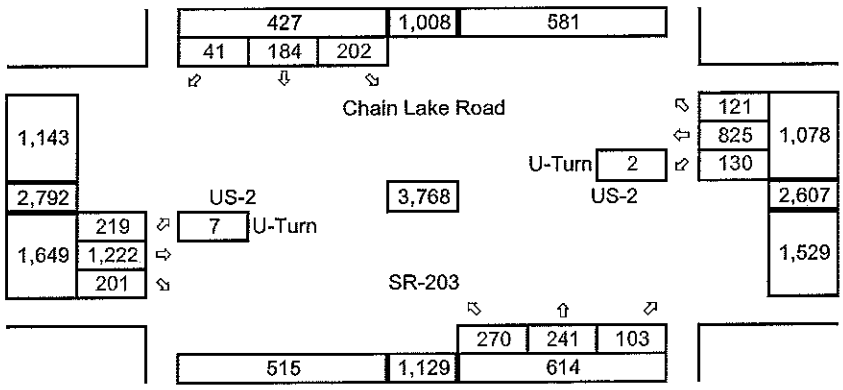
5 Chain Lake Rd-SR-203 @ US-2

Synchro ID: 5

Existing Volumes
Average Weekday
PM Peak-Hour

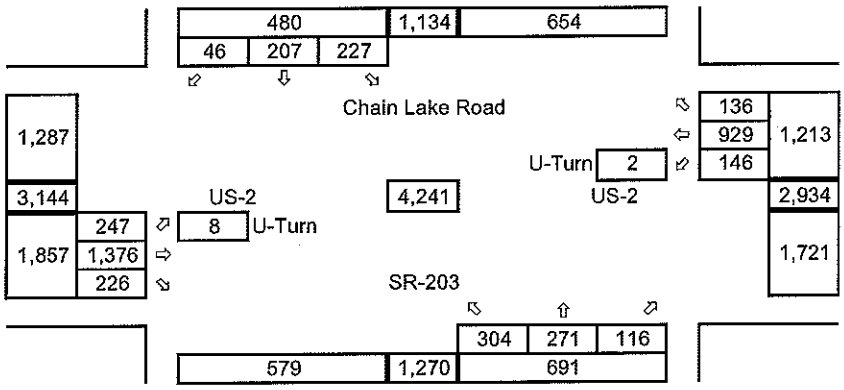
Year: **10/2/2012**

Data Source: **TDG**

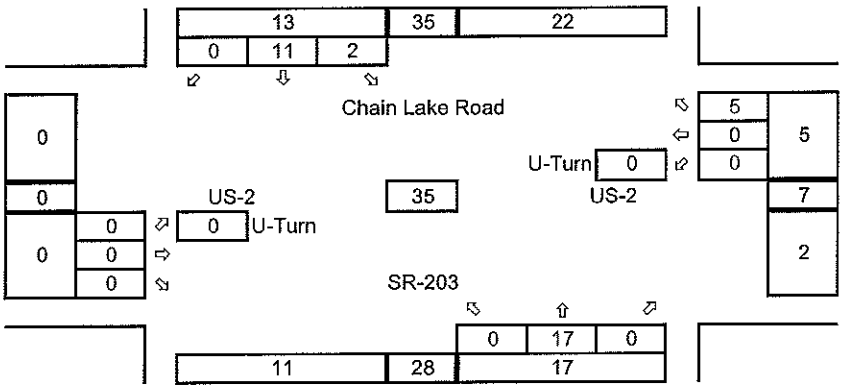


Baseline Volumes
Average Weekday
PM Peak-Hour

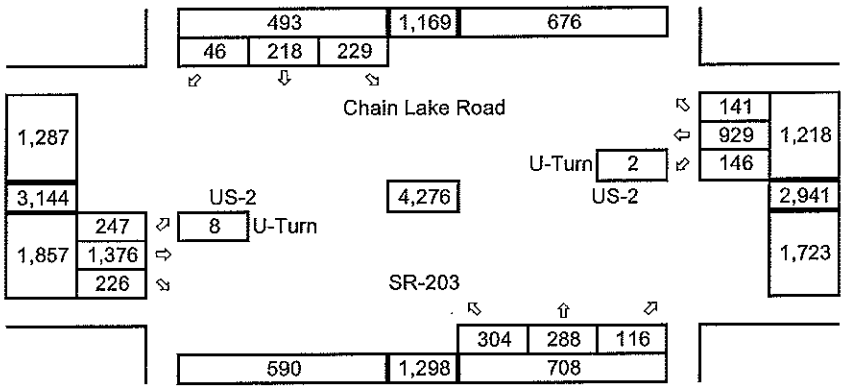
Year: 2018
Growth Rate = 2.0%
Years of Growth = 6
Total Growth = 1.1262



Development Trips
Average Weekday
PM Peak-Hour



Future with Dev. Volumes
Average Weekday
PM Peak-Hour



6 119th Ave @ Rainier View

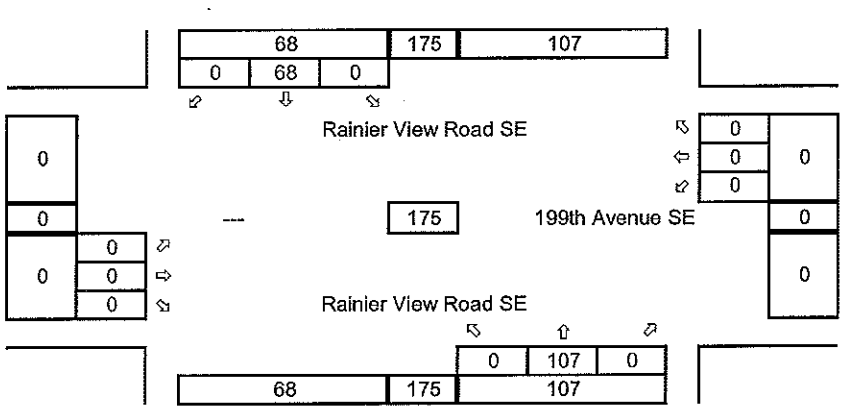
Synchro ID: 6

Existing Volumes
Average Weekday
PM Peak-Hour

Year: **9/27/2012**

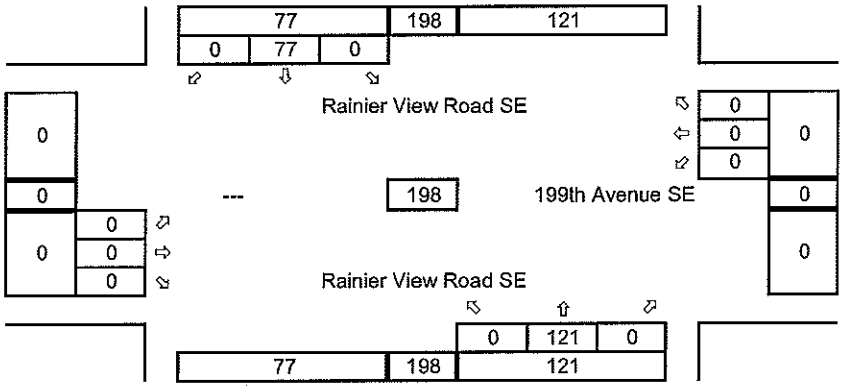
Data Source: **TDG**

Volumes are based on adjacent intersection with Chain Lake Road, but has been rotated 90 degress.

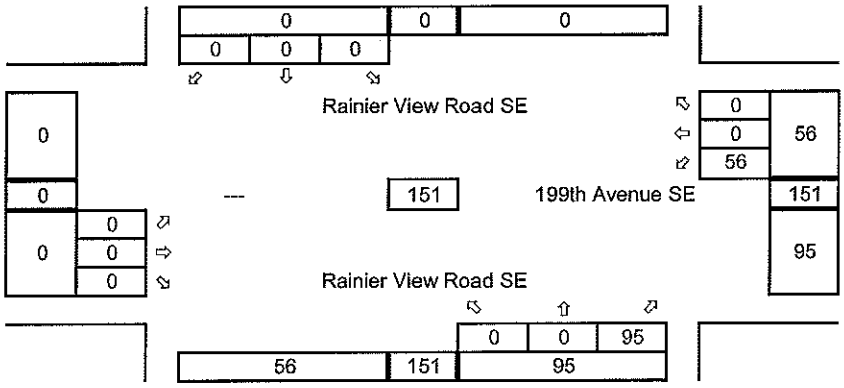


Baseline Volumes
Average Weekday
PM Peak-Hour

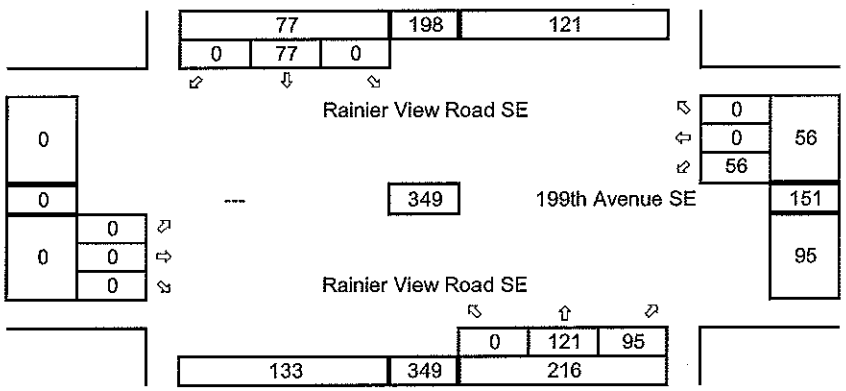
Year: 2018
Growth Rate = 2.0%
Years of Growth = 6
Total Growth = 1.1262



Development Trips
Average Weekday
PM Peak-Hour



Future with Dev. Volumes
Average Weekday
PM Peak-Hour



Level of Service Calculations

D

MP 14.57 - SR2 - Kelsey St

November 2, 2010

Control Table Info

Description	SR2 / Kelsey St
Created By	WagnerG
Created On	03/11/09 09:25:14
Modified By	WagnerG
Modified On	10/19/10 14:41:23

NextPhase 1.7.4 Control Params

Control Mode	scheduler
Manual Plan	1: Free Plan
Free Plan	1: Free Plan
Default Schedule	1: Basic Schedule Parameters

Schedule Table Info

Table	Description	Created By	Created On	Modified By	Modified On
1	Basic Schedule Parameters	WagnerG	03/11/09 09:25:14	WagnerG	10/19/10 14:17:22

Schedule Table 1 Params

Event	Enable	Hour	Minute	Day Of Week							CtrMode	Plan
				Su	Mo	Tu	We	Th	Fr	Sa		
1	X	0	1	X	X	X	X	X	X	X	free	1
2	X	6	30		X	X	X	X	X		sched	2
3	X	8	30		X	X	X	X	X		sched	3
4	X	10	0	X						X	sched	5
5	X	14	0	X							sched	6
6	X	15	0		X	X	X	X	X		sched	4
7	X	19	0		X	X	X	X	X		free	1
8	X	21	0	X						X	free	1
9		0	0								sched	0
10		13	0								sched	7
11		21	0								sched	1
12		0	0								sched	0
13		0	0								sched	0
14		0	0								sched	0
15		0	0								sched	0
16		0	0								sched	0
17		0	0								sched	0
18		0	0								sched	0
19		0	0								sched	0
20		0	0								sched	0
21		0	0								sched	0
22		0	0								sched	0
23		0	0								sched	0
24		0	0								sched	0
25		0	0								sched	0
26		0	0								sched	0
27		0	0								sched	0
28		0	0								sched	0
29		0	0								sched	0
30		0	0								sched	0
31		0	0								sched	0
32		0	0								sched	0
33		0	0								sched	0
34		0	0								sched	0

NextEdit

MP 14.57 - SR2 - Kelsey St

Parameters Holiday Floating

Holiday	Enable	Month	Week	Day of Week							Schedule	Description
				Su	Mo	Tu	We	Th	Fr	Sa		
5		1	1								1: Basic Schedule Parameters	
6		1	1								1: Basic Schedule Parameters	
7		1	1								1: Basic Schedule Parameters	
8		1	1								1: Basic Schedule Parameters	
9		1	1								1: Basic Schedule Parameters	
10		1	1								1: Basic Schedule Parameters	
11		1	1								1: Basic Schedule Parameters	
12		1	1								1: Basic Schedule Parameters	
13		1	1								1: Basic Schedule Parameters	
14		1	1								1: Basic Schedule Parameters	
15		1	1								1: Basic Schedule Parameters	
16		1	1								1: Basic Schedule Parameters	
17		1	1								1: Basic Schedule Parameters	
18		1	1								1: Basic Schedule Parameters	
19		1	1								1: Basic Schedule Parameters	
20		1	1								1: Basic Schedule Parameters	

Plan Table Info

Table	Description	Created By	Created On	Modified By	Modified On
1	Free Plan	WagnerG	03/11/09 09:25:14	WagnerG	03/11/09 09:26:06
2	AM Peak 140sec	WagnerG	03/11/09 09:26:05	WagnerG	10/19/10 14:06:16
3	Noon Peak 145sec	WagnerG	03/11/09 09:26:05	WagnerG	10/19/10 14:23:41
4	PM Peak 150sec	WagnerG	03/11/09 09:26:05	WagnerG	10/19/10 14:12:06
5	Weekend 145sec	WagnerG	03/11/09 09:26:05	WagnerG	10/19/10 14:23:52
6	Weekend Peak 150sec	WagnerG	03/11/09 09:26:05	WagnerG	10/19/10 14:27:05
7	Memorial Day Plan	WagnerG	05/31/10 12:25:06	WagnerG	05/31/10 12:28:51

Plan Table 1 Params

Plan Mode	Max Mode	Splt/Ofs	Phase	Sequence
free	max1	seconds	1: Basic Phase Parameters	1: Basic Sequence Parameters

Plan Table 1 Params

Overlap	Prioritor	Config	Cycle Length	Permissive
1: Basic Overlap Parameters	1: Basic Prioritor Parameters	1: Basic Active Configuration	0	0

Plan Table 1 Params

SpcFcn								AuxFcn								Prioritor Disable									
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10

NextEdit

MP 14.57 - SR2 - Kelsey St

Plan Table 3 Splits

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CordMin	20	30	12	20	20	30	12	20	0	0	0	0	0	0	0
CordNom	35	62	13	35	35	62	13	35	0	0	0	0	0	0	0
CordMax	50	100	15	50	50	100	15	50	0	0	0	0	0	0	0
PriMin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PriMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan Table 3 Splits

Phase	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CordMin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CordNom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CordMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PriMin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PriMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan Table 3 Splits

Phase	31	32	33	34	35	36	37	38	39	40
CordMin	0	0	0	0	0	0	0	0	0	0
CordNom	0	0	0	0	0	0	0	0	0	0
CordMax	0	0	0	0	0	0	0	0	0	0
PriMin	0	0	0	0	0	0	0	0	0	0
PriMax	0	0	0	0	0	0	0	0	0	0

Plan Table 3 Offsets

Offset	1	2	3	4	5	6	7	8	9	10	11
Barrier	a	None	None	None	None	None	None	None	None	None	None
Value	20	0	0	0	0	0	0	0	0	0	0

Plan Table 3 Offsets

Offset	12	13	14	15	16	17	18	19	20
Barrier	None	None	None	None	None	None	None	None	None
Value	0	0	0	0	0	0	0	0	0

Plan Table 4 Params

Plan Mode	Max Mode	Split/Ofs	Phase	Sequence
coord	none	seconds	1: Basic Phase Parameters	1: Basic Sequence Parameters

Plan Table 4 Params

Overlap	Prioritor	Config	Cycle Length	Permissive
1: Basic Overlap Parameters	1: Basic Prioritor Parameters	1: Basic Active Configuration	150	0

MP 14.57 - SR2 - Kelsey St

Plan Table 4 Params

SpcFcn								AuxFcn								Prioritor Disable									
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10

Plan Table 4 Flags

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Coord		X				X														
Hold		X				X														

Plan Table 4 Flags

Phase	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Coord																				
Hold																				

Plan Table 4 Splits

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CordMin	20	35	13	25	20	35	13	25	0	0	0	0	0	0	0
CordNom	30	70	13	37	42	58	13	37	0	0	0	0	0	0	0
CordMax	40	100	25	50	40	100	25	50	0	0	0	0	0	0	0
PriMin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PriMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan Table 4 Splits

Phase	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CordMin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CordNom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CordMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PriMin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PriMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan Table 4 Splits

Phase	31	32	33	34	35	36	37	38	39	40
CordMin	0	0	0	0	0	0	0	0	0	0
CordNom	0	0	0	0	0	0	0	0	0	0
CordMax	0	0	0	0	0	0	0	0	0	0
PriMin	0	0	0	0	0	0	0	0	0	0
PriMax	0	0	0	0	0	0	0	0	0	0

Plan Table 4 Offsets

Offset	1	2	3	4	5	6	7	8	9	10	11
Barrier	a	None	None	None	None	None	None	None	None	None	None
Value	15	0	0	0	0	0	0	0	0	0	0

NextEdit

MP 14.57 - SR2 - Kelsey St

Phase Table 1 Flags

Phase	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Omit																				
PedOmit																				
MinRcl																				
MaxRcl																				
SftRcl																				
ConSvc																				
PedRcl																				
DualEnt																				
SimGap																				
RedRest																				
AutoPed																				
WlkRest																				
PedRcycl																				
RedLock																				
YelLock																				
NoExtend																				
NoAdded																				
NoReduce																				
NoRange																				
NoMaxLck																				

Phase Table 1 Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MinGm	3	15	3	5	3	15	3	5	0	0	0	0	0	0	0
Passage	2.5	4.0	2.0	2.5	2.5	4.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MinTerm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max1	25	65	20	25	30	60	20	25	0	0	0	0	0	0	0
Max2	25	65	20	25	30	60	20	25	0	0	0	0	0	0	0
CSMax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YelClr	3.6	4.0	3.6	4.0	3.6	4.0	3.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RedClr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Walk	0	7	0	5	0	7	0	5	0	0	0	0	0	0	0
PedClr	0	21	0	21	0	15	0	26	0	0	0	0	0	0	0
Added	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MinGap	2.5	4.0	2.0	2.5	2.5	4.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MxInit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Active Config Table 1 Params

Phase	1: Basic Phase Configuration
Overlap	1: Basic Overlap Configuration
Preempt	1: Basic Pre-empt Configuration
Cabinet	1: Basic Cabinet Configuration 332
Detector	1: Basic 332 Detector Configuration
Coordination	1: Basic Coordination Configuration
Peer	1: Basic Peer Configuration

Phase Config Table Info

Table	Description	Created By	Created On	Modified By	Modified On
1	Basic Phase Configuration	WagnerG	03/11/09 09:25:14	wagnerg	03/11/10 07:54:41

Phase Config Table 1 Phase ID

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Direction	wbl	ebt	sbl	nbt	ebl	wbt	nbl	sbt	none	none	none	none	none	none	none

Phase Config Table 1 Phase ID

Phase	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Direction	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none

Phase Config Table 1 Phase ID

Phase	31	32	33	34	35	36	37	38	39	40
Direction	none	none	none	none	none	none	none	none	none	none

Phase Config Table 1 Flags

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Startup		X				X														
YelStart																				
RedStart																				
SecStart																				
Ped		X		X		X		X												
YelFlash																				
AltFlsHz																				
FlsEntry																				
FlsExit																				
NoCall																				
MCEOmit																				