

MACKENZIE

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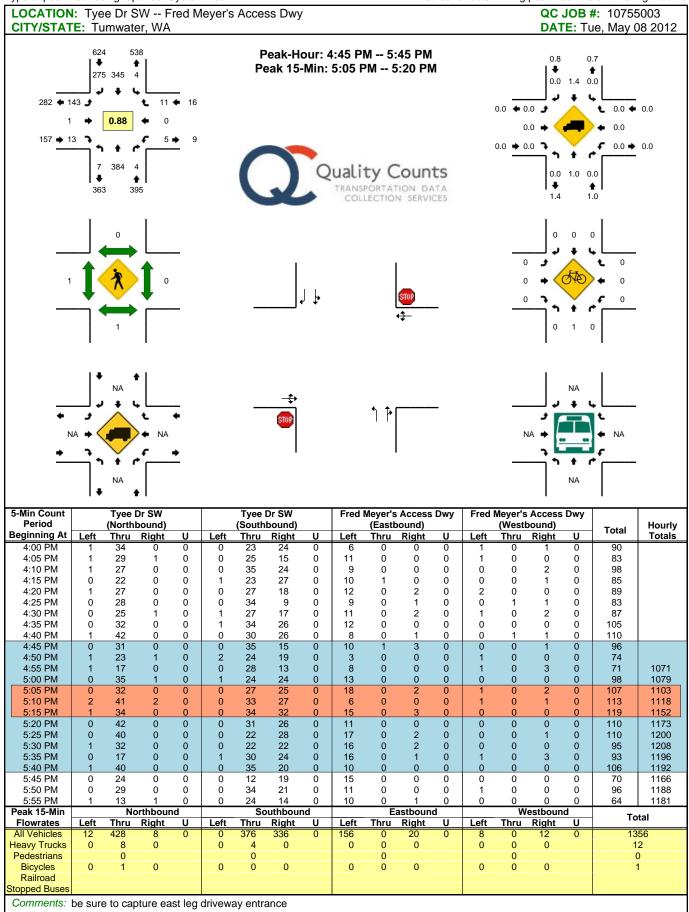
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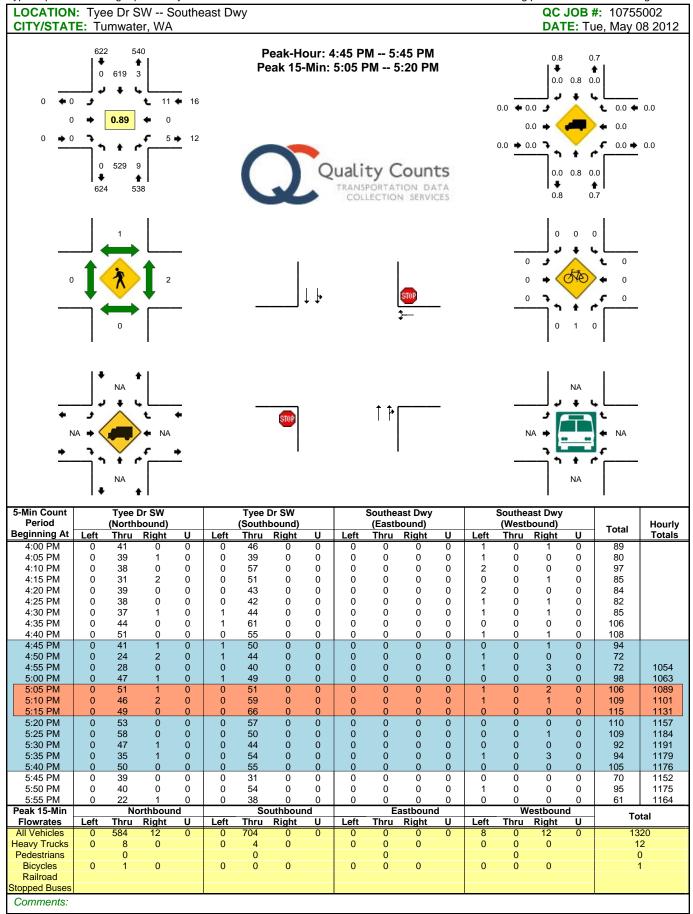
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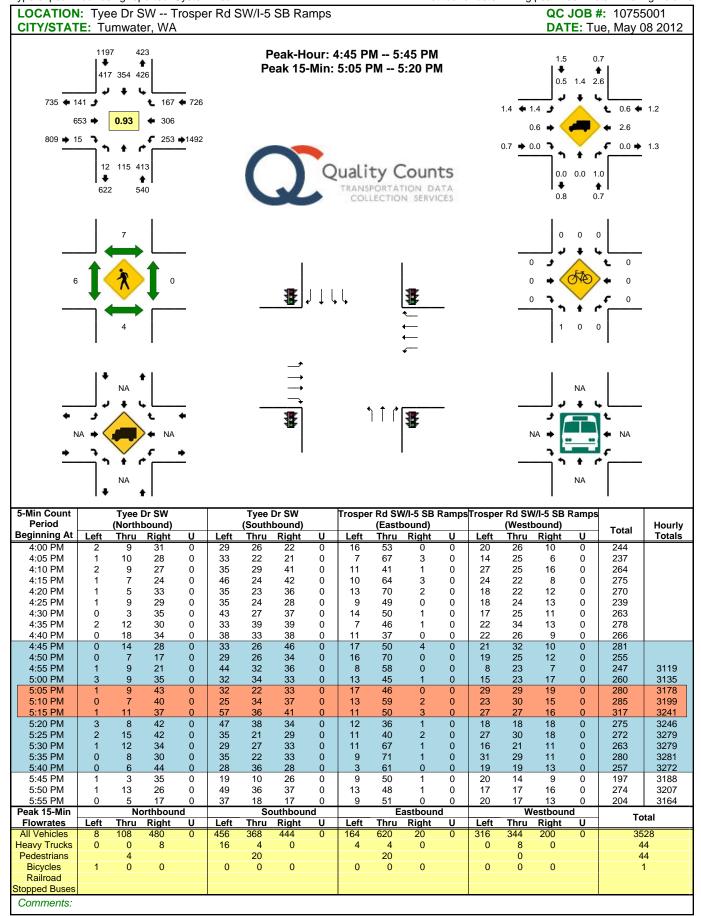
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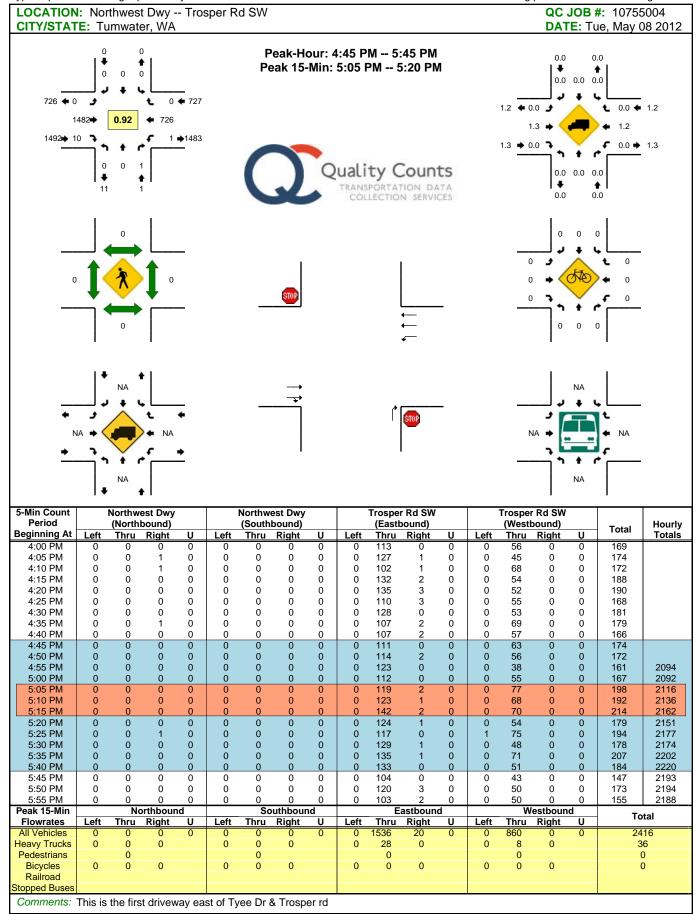
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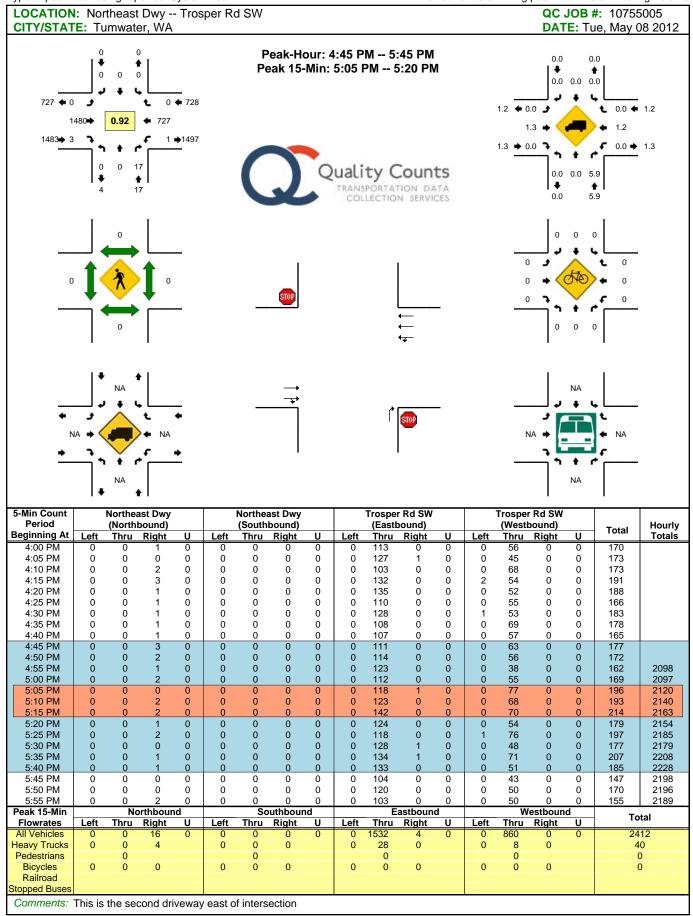
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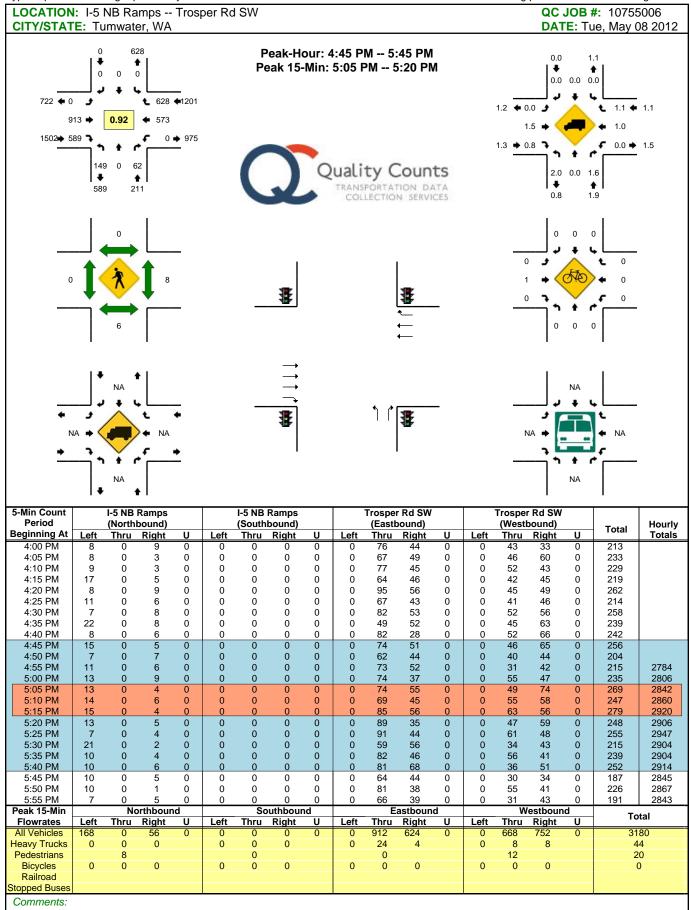












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GROUP MACKENZIE

February 7, 2012

Fred Meyer Attention: James Coombes PO Box 42121 Portland, OR 97242-0121

Re: **Fred Meyer Wood Village** *Fuel Facility Trip Surveys*Project Number 2100074.01

Dear Mr. Coombes:

This letter presents a summary of the customer surveys conducted by Group Mackenzie staff at the Gresham and Sandy, Oregon Fred Meyer fuel facility locations. The purpose of the surveys was to determine the number of each trip type, percentage of shared trips and use of rewards cards. Copies of the surveys are attached.

The Gresham, Oregon fuel facility has 10 fueling positions and is located in the main store parking lot along Burnside Street. The survey was conducted between 4:00 PM - 6:00 PM on Wednesday, January 18, 2012. Weather conditions were cold and overcast, normal for this time of year at this location. It is believed the weather had no impact on normal customer behavior.

The Sandy, Oregon fuel facility has 14 fueling positions and is located adjacent to the main store along Industrial Way. The survey was conducted between 4:00 PM – 6:00 PM on Thursday, January 19, 2012. Weather conditions were cold and rainy, normal for this time of year at this location. It is believed the weather had no impact on normal customer behavior.

TRIP TYPES

The surveys were designed to identify the trip type (primary, pass-by or diverted) and if the trip was shared with another use at the site. Shared trips are made by customers who also visit one or more other uses at the site. We further identified if purchasing fuel or visiting another use was the primary reason for the trip.

The following table presents the trip type results for both locations.

	-	TABLE	E 1 – S	SURVEY	TRIP TY	PE SUM	MARY				
Location					Trip T	ype					
Location	Pr	imary			Pass-by	Di	verted				
	External	Sha	red	External	Sha	ared	External	Shared		Total	
		Fuel	Other		Fuel	Other		Fuel	Other		
Gresham	14(13%)	3(3%)	7(7%)	22(20%)	10(9%)	7(7%)	34(32%)	5(5%)	5(4%)	107	
Sandy	15(11%)	4(3%)	6(4%)	55(40%)	24(17%)	17(12%)	10(7%)	5(4%)	3(2%)	139	
_	1										
Average	12%	3%	6%	30%	13%	9 %	20%	4%	3 %	100%	

Fred Meyer Fred Meyer Wood Village Project Number 2100074.01 February 7, 2012 Page 2

Primary Trips are vehicle trips to the site that immediately return to their point of origin. The two sites have similar Primary Trip characteristics. On the average, 12% of the surveyed trips were primary trips for fuel only. Another 9% were primary trips, but visited more than one use at the site, resulting in a shared trip.

Pass-by Trips are those trips to the site that are already driving by on the adjacent roadways. Trips to the Sandy fuel facility that were already traveling along Highway 26 are considered pass-by trips. The two sites have different Pass-by Trip characteristics. The Gresham site has a much lower percentage of pass-by trips at 20%, which is only half as many as Sandy. One likely reason for this difference is the Gresham location draws fuel customers using their rewards card discounts from the Wood Village Fred Meyer, which does not currently have a fuel facility.

Diverted Linked Trips are from vehicles already traveling in the area, but not on the roadways immediately adjacent to the site, and must change their travel route to get to the site. The Gresham site has a higher percentage of Diverted linked trips, at 32% of the total. This offsets the higher passby trip percentage noted at Sandy, and is likely due to trips by customers of other Fred Meyer stores without fuel facilities, notably Wood Village. These customers are already driving in the area, but travel to the Gresham fuel facility specifically to take advantage of the rewards card discount.

SHARED TRIPS

Shared trips are those taking advantage of more than one use at the site in the same trip. These are also referred to as Internal Capture trips, and are presented in the following table along with the external trip percentages. ITE rates for a stand along gas station are presented for comparison.

TABLE 2 - INTERNAL TRIP SUMMARY (%)											
Location	Internal	External									
Location	IIIICIIIai	Total	Primary	Pass-by	Diverted						
Gresham	35	65	13	20	32						
Sandy	42	58	11	40	7						
Average	38	62	12	30	20						
ITE (stand-alone gas station)	20	80	11	41.5	27.5						

On the average, 38% of the surveyed trips are Internal Capture trips compared to the recommended 20% for retail to retail trips in the ITE Trip Generation Handbook.

REWARDS CARD

A high percentage of fuel customers utilized their rewards cards. Overall, 93% used a card at Gresham with 88% taking a discount, while 91% used a card at Sandy, with 76% taking a discount. The following table presents the rewards card use by trip type.

Fred Meyer Fred Meyer Wood Village Project Number 2100074.01 February 7, 2012 Page 3

		TAB	LE 3	3 – RE	WARD C	ARD	USE B	Y TRIP T	YPE			
	Primary Trips			Pass-by Trips			Diverted Trips			Shared Trips		
Location	Total	Reward Card	%	Total	Reward Card	%	Total	Reward Card	%	Total	Reward Card	%
Gresham	14	13	93	22	21	95	34	33	97	37	32	93
Sandy	15	10	67	55	52	95	10	10	100	59	55	91
Average			80			95			99		`	90

The only significant difference in rewards card use between the two sites is a higher percentage of primary trips using the card at Gresham. This may be due to customers from other Fred Meyer stores making a special trip to Gresham to take advantage of a fuel discount.

The following table presents reward card use for shared trips only, identifying if the shared trip was with the Fred Meyer store or another use at the site. The results indicate a very high percentage of Fred Meyer store shoppers use the rewards card for fuel purchases in the same trip. Of those Fred Meyer store shoppers using the rewards card, 78% took advantage of a discount. This compares to 83% of customers taking advantage of a fuel discount when the shared trip is with another use.

TA	ABLE 4	- REWA	RD C	ARD L	JSE FOR	SHAI	RED T	RIPS		
	F	red Meyer			Other		Total			
Location	Total	Rewards Card	%	Total	Used Rewards Card	%	Total	Used Rewards Card	%	
Gresham	32	32	100	5	0	0	37	32	86	
Sandy	54	50	93	5	5	100	59	55	93	
Average			96			50		90		

In summary, the surveys indicate a high shared trip percentage, with most customers taking advantage of fuel discounts in the same trip. The Gresham fuel facility has a higher percentage of diverted linked trips, which is likely from customers of other Fred Meyer stores traveling to Gresham to purchase fuel.

If you have any questions about the data or would like more information please do not hesitate to ask.

Sincerely,

Brent Ahrend, PE

Senior Associate | Traffic Engineer

Enclosures: Survey Data Sheets Vicinity Maps

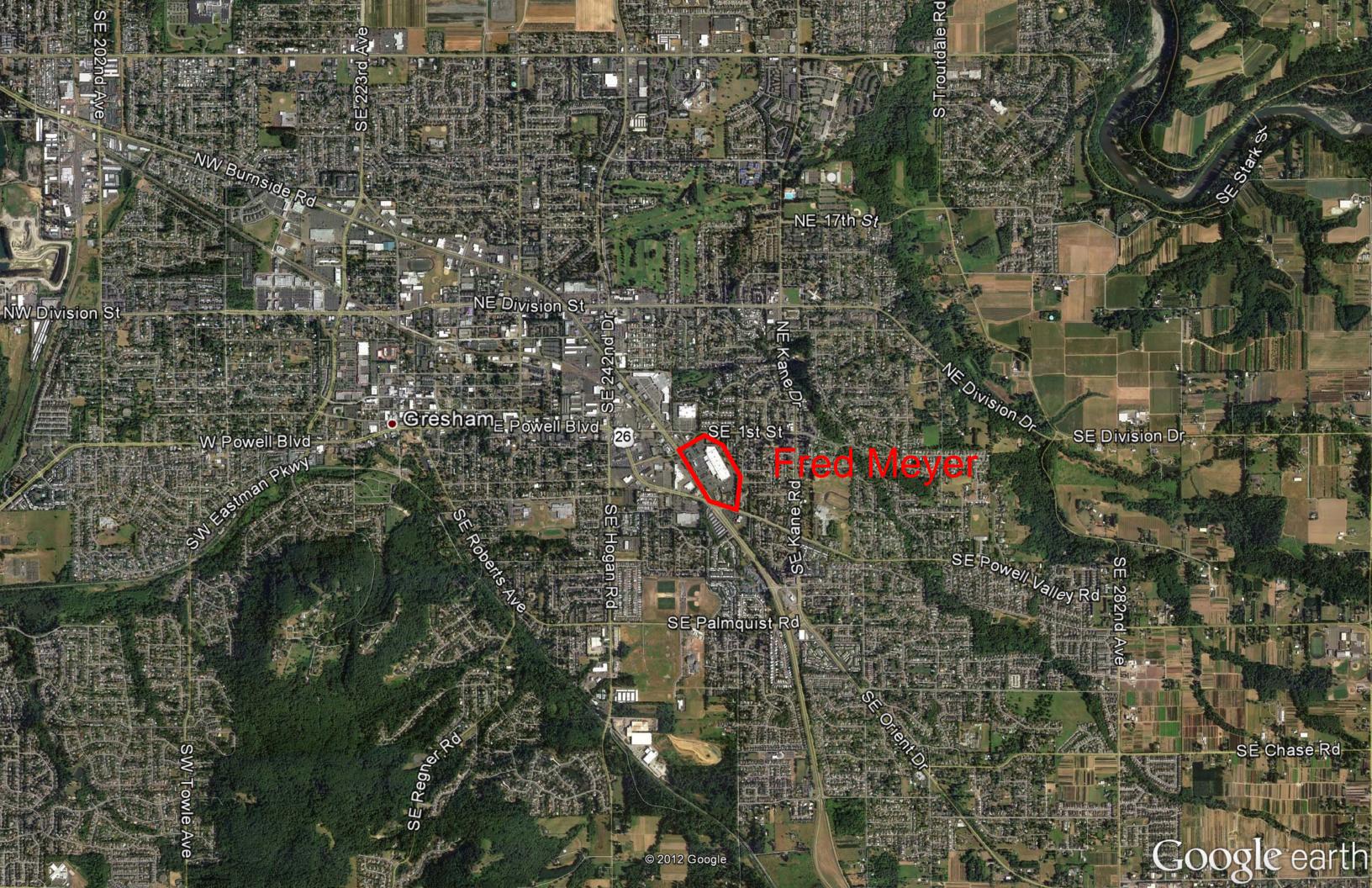
c: Pam Child – Fred Meyer

Lee Leighton – Westlake Consultants

FRED MEYER SURVEY QUESTIONS

Below are questions for the gas survey that will need to be asked to each of the following customers that approach the fueling station. Please talk with as many of these customers as you can. This is very important so we can get the most accurate data we need for our study.

- 1. I am conducting a trip survey for Fred Meyer. Will you please answer a few questions?
- 2. Of the following locations, where did your trip begin immediately prior to arriving here? (i.e. Home/Work/Retail Store/Other)
- 3. Will you go directly back there from here? (if yes go to 5)
- 4. If you had not needed to buy fuel today, would you have been driving by this site anyway? (Sandy Hwy 26, 362nd; Gresham Burnside, Powell Valley, 1st/3rd)
- 5. Was purchasing fuel the primary reason for your stop here today?
- 6. In addition to buying gas, on this visit will you or did you go to any of the other uses on site? [If no, go to 8]
- 7. Will you or did you go to the Fred Meyer store on this visit?
- 8. For your gas purchase did you use your rewards card? [If no, done. If yes, go to 9]
- 9. Did you use your rewards card discount?



Location: Grestand Project No.: 2100074.01 <u>Date:</u> 1/18/12 <u>Surveyor:</u> MCD

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Location: 5 BURNSIDE GRESHAM MDate: 1/18/12

Project No.: 7100074.01 Surveyor: JMH

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FRED MEYER SURVEY QUESTIONS

Below are questions for the gas survey that will need to be asked to each of the following customers that approach the fueling station. Please talk with as many of these customers as you can. This is very important so we can get the most accurate data we need for our study.

- 1. I am conducting a trip survey for Fred Meyer. Will you please answer a few questions?
- 2. Of the following locations, where did your trip begin immediately prior to arriving here? (i.e. Home/Work/Retail Store/Other)
- 3. Will you go directly back there from here? (if yes go to 5)
- 4. If you had not needed to buy fuel today, would you have been driving by this site anyway? (Sandy Hwy 26, 362nd; Gresham Burnside, Powell Valley, 1st/3rd)
- 5. Was purchasing fuel the primary reason for your stop here today?
- 6. In addition to buying gas, on this visit will you or did you go to any of the other uses on site? [If no, go to 8]
- 7. Will you or did you go to the Fred Meyer store on this visit?
- 8. For your gas purchase did you use your rewards card? [If no, done. If yes, go to 9]
- 9. Did you use your rewards card discount?



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<u>Location:</u>
Project No.:

<u>Date:</u> <u>Surveyor:</u>

Question

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	. 4	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	•
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	Y/N	Y/N	Y/N	Y./ N	Y/N	Y/N	Y/N	•	
W/	Y/N	Y/N	$(\widehat{\mathbf{Y}}/\mathbf{N}$	Y/N	Y/N	Ϋ́/N	"Y/N	-]
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H	Y/N)	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	-	
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	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	•	
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VV	Y/N	Y / N	Y/N	Y/N	Y/N	Y/N	Y/N		130

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APPENDIX E
Collision Data
and Calculations

COLLISION RATE CALCULATIONS

Tyee Drive / Fred Meyer Store Access / Fuel Site Access

2012 Existing PM Peak Hour Total Entering Volume (TEV) = 1,197 vehicles

Million Entering Vehicles (MEV) per Year =

$$\left(\frac{ADT * 365}{1,000,000}\right) \approx \left(\frac{Peak\ Hour\ TEV * 10 * 365}{1,000,000}\right) = \left(\frac{1,197 * 10 * 365}{1,000,000}\right) = 4.37$$

Collision Rate per Year (using WSDOT data Apr. 2006 – Mar. 2011) =

$$\left(\frac{\text{Total number of collisions}}{\text{Number of Years}}\right) = \left(\frac{4 \text{ collisions}}{5 \text{ years}}\right) = \mathbf{0.18}$$

Trosper Road / Tyee Drive / Interstate 5 Southbound Ramps

2012 Existing PM Peak Hour Volume = 2,420 vehicles

Million Entering Vehicles (MEV) per Year =

$$\left(\frac{ADT * 365}{1,000,000}\right) \approx \left(\frac{Peak\ Hour\ TEV * 10 * 365}{1,000,000}\right) = \left(\frac{3,272 * 10 * 365}{1,000,000}\right) = 11.94$$

Collision Rate per Year (using WSDOT data Apr. 2006 – Mar. 2011) =

$$\left(\frac{\text{Total number of collisions}/\text{Number of Years}}{\text{MEV per Year}}\right) = \left(\frac{59 \text{ collisions}/\text{5 years}}{11.94 \text{ MEV per Year}}\right) = \mathbf{0.99}$$

COLLISION RATE CALCULATIONS

Trosper Road / Northeast Fuel Site Access

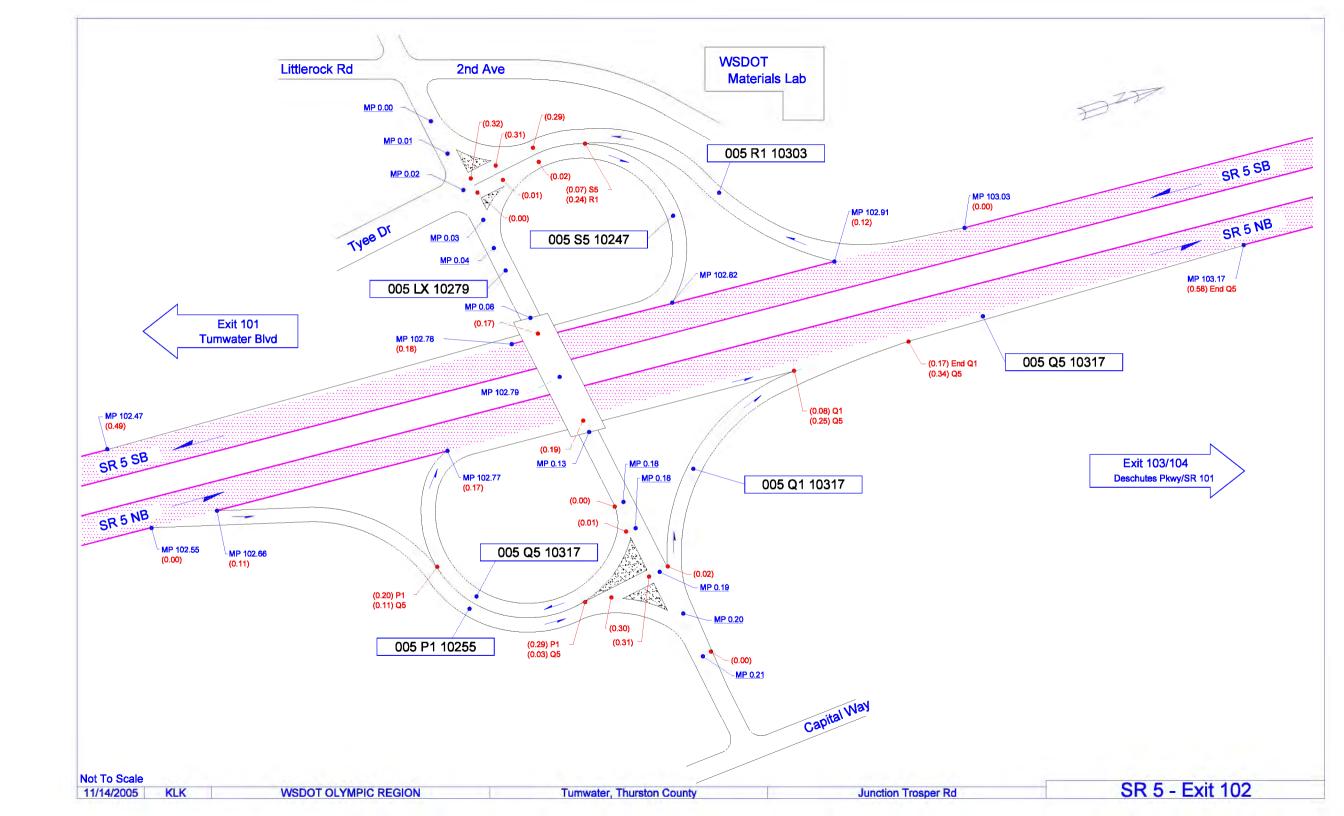
2012 Existing PM Peak Hour Volume = 2,228 vehicles

Million Entering Vehicles (MEV) per Year =

$$\left(\frac{ADT * 365}{1,000,000}\right) \approx \left(\frac{Peak \, Hour \, TEV * 10 * 365}{1,000,000}\right) = \left(\frac{2,228 * 10 * 365}{1,000,000}\right) = 8.13$$

Collision Rate per Year (using WSDOT data Apr. 2006 – Mar. 2011) =

$$\left(\frac{\text{Total number of collisions}}{\text{Number of Years}}\right) = \left(\frac{5 \text{ collisions}}{5 \text{ years}}\right) = \mathbf{0.12}$$



														TY	EE DRIVE	SW/F	RED N	IEYER A	CCESS														
JUR- IS- DIC- TION	PRIMARY TRAFFIC- WAY BLOCK NUMBER	INTER- SECTING TRAFFIC- WAY	DIST FROM REF POINT	MI DIR or FROM FT REF POIN	REF POINT NAME	IMPACT LOCATION	*REPORT NUMBER	DATE	TIME MOS SEVEI INJUF TYPI	E SEVERE	# I / N J	# # F V A E T H	FIRST COLLISION TYPE / OBJECT STRUCK	JUNCTION RELA- TIONSHIP	WEATHER	LIGHT- ING CONDI- TIONS	ROAD- WAY SUR- FACE CONDI- TIONS	TICS	VEH 1 TYPE	VEH 1 ACTION	VEH 1 TRAFFIC CONTROL	VEH 1 COMP DIR FROM	MV DRIVER CONT CIRC 1 (UNIT 1)	MV DRIVER CONT CIRC 2 (UNIT 1)	MV DRIVER 1 SEQ 1	DRIVER 1 DI	MV DRIVE RIVER 1 MISC SEQ 3 ACTION (UNIT 1	VEH 2 TYPE	VEH 2 ACTION	VEH 2 TRAFFIC CONTROL	VEH 2 COMP DIR FROM	VEH 2 D COMP (DIR TO (RIVER MV CONT DRIVER 2 IRC 1 SEQ 1
City Street	TYEE DR SW	FRED MEYER	300	FT S	TROSPER RD SW		2515433	12/15/06	3:05 PM No Inju	Had NOT y Been Drinking	0	0 2	One car leaving driveway access	At Driveway	Clear or Partly Cloudy	y Daylight	Dry	Straight & Level	Passenger Car	Making Left Turn	No Traffic Control	West North	Did Not Grant RW to Vehicle		Collision Involving Motor Vehicle in Transport			Pickup, Panel Truck or Vanette under	Going Straight Ahead	No Traffic Control	South	North Nor	Collision Involving Motor Vehicle in Transport
City Street	TYEE DR 500						2572216	03/29/08	12:14 AM No Inju	Had NOT y Been Drinking	0	0 1	Traffic Island or Raised Median	Not at Intersection and Not Related	Raining	Dark- Street Lights On	Wet	Curve & Level	Passenger Car	Going Straight Ahead	No Traffic Control	South North	Exceeding Stated Speed Limi	*	Collision Involving Fixed Object	Ran off Invite Road Fix	Out of control (ice, turn to fast, etc.) or sliding (r skidding).	ed					
City Street	TYEE DR	FRED MEYER					3297453	11/12/08	9:31 PM Possibl Injury	Had NOT Been Drinking	1	0 2	One car leaving driveway access	At Driveway	Raining	Dark- Street Lights On	Wet		Passenger Car	Making Left Turn	Stop Sign	West North	Did Not Grant RW to Vehicle		Collision Involving Motor Vehicle in Transport		Turn after stopping red flashing light or	at Passenge Car	Going Straight Ahead	No Traffic Control	South	North Nor	Collision Involving ne Motor Vehicle in Transport
City Street	TYEE SR SE	FRED MEYER THRUWAY				Lane of Primary Trafficway	3297845	03/09/10	10:27 AM No Inju	Had NOT y Been Drinking	0	0 2	anala	At Intersection and Related		Daylight	Dry	Straight & Level	Pickup, Panel Truck or Vanette under	Making Left Turn	Stop Sign	West North	Did Not Grant RW to Vehicle		Collision Involving Motor Vehicle in Transport		Turn after stopping red flashing light or	r	Going Straight Ahead	No Traffic Control	North	South Nor	Collision Involving Motor Vehicle in Transport

															TR	OSPER I	ROAD SW	//TYEE	DRIVE	SW / IN	TERSTA	TE 5 SO	UTHB	OUND RAM	PS															
JUR- IS- DIC- TION PRIMARY TRAFFIC- WAY	MILE	IMPACT LOCATION	*REPORT NUMBER	DATE	TIME	MOST SEVERI INJURY TYPE	E SEVEI SOBRIE	T # RE I ETY N E J	# # F V A E T H	# # P P E E L D D S A	FIRST COLLISION TYPE / OBJECT STRUCK	Junction Rela- Tionship	WEATHER	LIGHT- ING CONDI- TIONS		ROAD- WAY CHARAC- TERIS- TICS	LOCATION CHARAC- TERISTICS	VEH 1 TYPE	VEH 1 ACTION	VEH 1 TRAFFIC CONTROL	VEH 1 COMP DIR FROM	R TO CIE	ONT	CIRC 2 SEQ (UNIT 1)	R 1 DRIVER 1 SEQ 2	MV 1 DRIVER SEQ 3	ACTION 1	MV DRIVER MISC ACTION 2 (UNIT 1)	MV DRIVER MISC ACTION 3 (UNIT 1)	VEH 2 TYPE	VEH 2 ACTION	VEH 2 TRAFFIC CONTROI	VEH 2 COMP DIR FROM	VEH 2 COMP DIR TO	MV DRIVER CONT CIRC 1 (UNIT 2)	DRIVER 2 SEQ 1	MV M' DRIVER DRIV MISC MIS ACTION 1 ACTIO (UNIT 2) (UNI	ER CYCL C CON N 2 CIRC	IST CYCL NT COM C 1 CIRC	LIST NT C 2
State 005LX Route 10279	0.00	Lane 2 LX Increasing Milepost	2285503	06/02/06	3:22 Pf	M No Injury	Had NOT Been Drinking	0	0 2	0	One car leaving driveway access	At Driveway within Major Intersection	Clear or Partly Cloudy	Daylight	Dry	Straight & Level		Passenger Car	Going Straight Ahead	Signals	West Ea	st None		Collisio Involvir Motor Vehicle Transo	ig in						Making Left Turn	No Traffic Control	North	East	Did Not Grant RW to Vehicle	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.00	Intersecting Road Increasing Milepost	2723181	02/06/07	7 4:57 Pf	M Possible Injury	Had NOT Been Drinking	1	0 1	1 s	straight hits	At Driveway within Major Intersection	Raining	Daylight	Wet	Straight & Grade	Parking Lot	Passenger Car	Starting in Traffic Lane	No Traffic Control	South No	rth Row	o Yield to s-trian	Collisio Involvir Pedes- trian	ıg															
State 005LX Route 10279		Lane 1 LX Decreasing Milepost	3297526	02/06/09	9 5:30 Pf	M No Injury	Had NOT Been Drinking	0	0 2	C le	eft turn - one	At Driveway within Major Intersection	Overcast	Dusk	Dry	Straight & Level		Passenger Car	Making Left Turn	Signals	West No	Did N orth Grant to Ve	RW	Collisic Involvir Motor Vehicle Transp	ig in					Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	East	West	None	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	2285992	04/27/06	4:49 Pf	M No Injury	Had NOT Been Drinking	0	0 4	0 9 b	noth moving	At Intersection and Not Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Grade		Passenger Car	Going Straight Ahead	Signals	West Ea	st Follow Close	w Too ely	Collisio Involvir Motor Vehicle Transp	ig in						Slowing	No Traffic Control	West	East	None	Collision Involving Motor Vehicle in Transport	nother			
State 005LX Route 10279		Left Turn Lane LX Decreasing Milepost	2285502	05/13/06	4:52 Pf	M Possible Injury	Had NOT Been Drinking	1	0 2	Q Q	From same direction - both going straight - one stopped - rear-end	At Intersection and Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Level		Passenger Car	Stopped at Signal or Stop Sign	Signals		hicle ppped None		Collisic Involvir Motor Vehicle Transp	ig in					Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	East	vvesi	Follow Too Closely	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.02	Lane 2 LX Decreasing Milepost	2319951	06/15/06	1:08 Pf	M No Injury	Had NOT Been Drinking	0	0 3	c		At Intersection and Related	Overcast	Daylight	Dry	Straight & Grade		Truck Tractor & Semi- Trailer	Backing	Signals		hicle Impro cking Backi		Collisic Involvir Motor Vehicle Transp	ig in		Hit and run			Pickup, Panel Truck or Vanette under 10 000 lb	Stopped for Traffic	Signals		Vehicle Stopped	None	Collision Involving S Motor fi Vehicle in v Transport	or another			
State 005LX Route 10279		Intersecting Road Increasing Milepost	2572229	09/30/00	3:49 Př	M Possible Injury	Had NOT Been Drinking	2	0 2	9	From same direction - both going straight - one stopped - rear-end	At Intersection and Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Level		Passenger Car	Going Straight Ahead	Signals	South No	rth Inatte	ention	Collisic Involvir Motor Vehicle Transp	ig in					Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals		Vehicle Stopped	None	Collision Involving S Motor fi Vehicle in v Transport	or another			
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	C680133	11/22/00	5:10 Pf	M Possible Injury		1	0 2	Q Q	goning on angin	At Intersection and Related		Dusk	Dry	Straight & Level		Passenger Car	Stopped at Signal or Stop Sign	Signals		hicle opped								Passenger Car	Going Straight Ahead	Signals	West	East						
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	2136235	12/19/00	4:55 Pľ	M Possible Injury	Had NOT Been Drinking	1	0 2			At Intersection and Related	Overcast	Dark- Street Lights On	Dry	Straight & Level		Passenger Car	Going Straight Ahead	Signals	West Ea	st Other	-	Collisic Involvir Motor Vehicle Transp	Ran off the Road	Collision Involving Fixed Object				Pickup, Panel Truck or Vanette under	Going Straight Ahead	Signals	South	North	Other	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.02	Lane 2 LX Decreasing Milepost	2515349	01/12/0	6:43 Pľ	M Possible Injury	Had NOT Been Drinking	2	0 2	9	From same direction - both going straight - one stopped - rear-end			Dark- Street Lights On	Ice	Straight & Grade		Pickup, Panel Truck or Vanette under	Going Straight Ahead	Signals	East We	Exceest Reas Spee	. Safe	Collisic Involvir Motor Vehicle Transp	ig in					Passenger Car	Stopped at Signal or Stop Sign	Signals		Vehicle Stopped	None	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	2452971	05/04/07	7:54 Al	M Possible Injury	Had NOT Been Drinking	1	0 2	0 9 b	noth moving	At Intersection and Not Related	Overcast	Daylight		Straight & Grade		Passenger Car	Going Straight Ahead	No Traffic Control	West Ea	st Inatte	ention	Collisio Involvir Motor Vehicle Transp	ig in					Passenger Car	Slowing	No Traffic Control	West	East	None	Collision Involving Motor Vehicle in Transport	nother			
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	2723056	05/04/07	7:56 Al	M No Injury	Had NOT Been Drinking	0	0 2	0 9 b	noth moving -	At Intersection and Not Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Grade		(Flatbad, Van, etc)	Going Straight Ahead	No Traffic Control	West Ea		ating held ommu	Collisic Involvir Motor Vehicle Transp	ig in					Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	No Traffic Control	West	East	None	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	2515362	06/25/07	9:12 Pľ	M No Injury	Had NOT Been Drinking	0	0 2	c g b	noth moving -	At Intersection and Not Related	Clear or Partly Cloudy	Dusk	Dry	Straight & Grade		Pickup, Panel Truck or Vanette under 10 000 lb		No Traffic Control	West Ea	Did N st Grant to Ve	RW	Collisic Involvir Motor Vehicle Transp	ig in					Passenger Car	Going Straight Ahead	No Traffic Control	West	East	None	Collision Involving Motor Vehicle in Transport				
State 005LX Route 10279	0.02	Lane 2 LX Decreasing Milepost	2723015	10/04/0	7:32 Pľ	M No Injury	Had NOT Been Drinking	0	0 2	C le	From same direction - one eft turn - one straight	At Intersection and Related	Clear or Partly Cloudy	Dusk	Dry	Straight & Level		Passenger Car	Going Straight Ahead	Signals	North So	uth Impro		Collisio Involvir Motor Vehicle Transp	ig in					Pickup, Panel Truck or Vanette under 10 000 lb	Making Left Turn	Signals	North	East	None	Collision Involving Motor Vehicle in Transport				

														TRO	OSPER R	OAD SW /	TYEE D	DRIVE	SW / IN	TERST <i>A</i>	ATE 5	SOUTH	BOUND RAMPS													
JUR- IS- DIC- TION PRIMARY TRAFFIC- WAY	MILE II POST LC	MPACT OCATION	*REPORT NUMBER	DATE	TIME	MOST SEVERE INJURY TYPE	MOST SEVERI SOBRIET TYPE	# # E I F FY N #	# # # P F F D C C	FIRST COLLISION TYPE / OBJECT STRUCK	JUNCTION RELA- TIONSHIP	WEATHER	L CONDI-	ROAD- WAY SUR- FACE CONDI- TIONS	CHARAC-	LOCATION CHARAC- TERISTICS	VEH 1 TYPE	VEH 1 ACTION	VEH 1 TRAFFIC CONTROL	VEH 1 COMP DIR FROM	VEH 1 COMP DIR TO	MV DRIVER CONT CIRC 1 (UNIT 1)	MV DRIVER MV DRIVER 1 DRIVER 1 CIRC 2 (UNIT 1)	MV DR R 1 DRIVER 1 M 2 SEQ 3 ACT	VER DRIVE SC MISC ION 1 ACTION IT 1) (UNIT	MIS ACTIO	ER VEH 2 N 3 1)	VEH 2 ACTION	VEH 2 TRAFFIC CONTRO	VEH 2 COMP DIR FROM	VEH 2 COMP DIR TO	MV DRIVER CONT CIRC 1 (UNIT 2)	SEQ 1	MV MV DRIVER DRIVER MISC MISC ACTION 1 ACTION (UNIT 2) (UNIT 2)	CONT 2 CIRC 1	CONT CIRC 2
State 005LX Route 10279	0.02 Incr	e 1 LX easing epost	2722535	11/02/07	12:17 PM	Possible Injury	Had NOT Been Drinking	2 (3	From same direction - both going straight one stopped - rear-end	and Not Related		Daylight	ыу	Straight & B Grade C	Bridge or Pa Overpass Ca	assenger S ar A	Going Straight Jhead	No Traffic Control	West Ea		ollow Too losely	Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10 000 lb		No Traffic Control		Vehicle Stopped	None	Vehicle in to Transport	ine of		
State 005LX Route 10279	0.02 Dec	e 2 LX creasing epost	2722804	12/08/07	5:47 PM	/ No Injury	Had NOT Been Drinking	0 (2	Entering at angle	At Intersection and Related	Clear or Partly Cloudy	Dark- Street Lights On	Dry	Straight & Level	Pa Ca	s S	Going Straight Nhead	Signals	East W	Vest S	isregard top and to Light	Collision Involving Motor Vehicle in Transport	Attac	hod		Passeng Car	Going Straight Ahead	Signals	South	North	None	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02 Lan Dec	Turn e LX creasing epost	2722805	12/09/07	3:19 PN	/l No Injury	Had NOT Been Drinking	0 (2	Entering at angle	At Intersection and Related		Daylight		Straight & Grade	Tra Se	uck actor & M emi- Le ailer	Making eft Turn	Signals	North E	east O	ither	Collision Involving Motor Vehicle in Transport	traile struct anot vehic objec Pede trian Peda	c c eer le or t, s-		Pickup, Panel Truck or Vanette under 10,000 lb	Stopped at Signal or Stop Sign	Signals		Vehicle Stopped	None	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02 Dec	e 2 LX creasing epost	2722631	04/19/08	2:55 PM	/ No Injury	Had NOT Been Drinking	0 (2	From same direction - both going straight one stopped - rear-end			Daylight		Straight & Grade	Pa Tru Va un	uck or S	Going Straight Nhead	Signals	East W	Vest D	nknown river istraction	Collision Involving Motor Vehicle in Transport	aveli	,		Passengi Car	Stopped at Signal or Stop Sign			Vehicle Stopped	None	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02 Incr	e 2 LX easing epost	3297009	08/24/08	11:07 PM	Possible Injury	Had NOT Been Drinking	1 (2	Entering at angle	At Intersection and Related		Dark- Street Lights On	Wet	Straight & Level		assenger S	Going Straight Nead	Signals	West Ea	ast S	isregard top and to Light	Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	North	South	None	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02 Dec	e 1 LX creasing epost	3297201	10/03/08	5:27 PM	Evident Injury	Had NOT Been Drinking	1 (1	Vehicle overturned	At Driveway within Major Intersection	Raining	Daylight	Wet	Straight & Level	Mo	otorcycle S	Going Straight Nhead	No Traffic Control	East W	Vest O	ither	Overturn (Rollover)	Avoi anotl vehic	ier											
State 005LX Route 10279	0.02 Dec	e 2 LX creasing epost	E009485	10/25/08	10:11 AM	/ No Injury	Had NOT Been Drinking	0 (2		At Intersection and Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Level	Pa Ca	assenger S	Going Straight Nhead	Signals	North S	South O	ither	Collision Involving Motor Vehicle in Transport				Passeng Car	er Making Left Turn	Signals	North	East	None	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02 Dec	e 1 LX creasing epost	C712486	11/08/08	2:30 PM	Possible Injury		1 (2	From same direction - both going straight one stopped - rear-end	At Intersection and Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Grade	Pa Ca	assenger S ar fo	Stopped or Traffic	Signals		ehicle stopped			Stop line o traffi			Passeng Car	Going Straight Ahead	Signals	East	West					
State 005LX Route 10279	0.02 Dec	e 2 LX creasing epost	3297452	11/12/08	5:45 PM	Possible Injury	Had NOT Been Drinking	1 (2	From same direction - both going straight one stopped - rear-end	At Intersection and Not Related	Raining	Dark- Street Lights On	Wet	Straight & Grade	Pa Ca	assenger S ar A	Going Straight Nhead	No Traffic Control	East W	Vest C	ollow Too losely	Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10,000 lb		No Traffic Control	East	Vehicle Stopped	None	Collision Involving S Motor li Vehicle in tr Transport	ine of		
State 005LX Route 10279	0.02 Incr	e 1 LX easing epost	C714602	12/03/08	7:10 AN	/I No Injury		0 (2	Entering at angle	At Intersection and Related		Dark- Street Lights On		Straight & Level	Pa Ca	ssenger S	Going Straight Nhead	Signals	West Ea	ast						Passeng Car	Making Right Turn	Signals	South	East		c b id	/iew obscured by frost, ce, etc. on vindshield		
State 005LX Route 10279	0.02 Dec	e 2 LX creasing epost	2572218	12/05/08	5:49 PN	/I No Injury	Had NOT Been Drinking	0 (2	From same direction - both going straight one stopped - rear-end		Clear or Partly Cloudy	Dark- Street Lights Off		Straight & Grade	Pa Tru Va un	uck or	Starting in Traffic ane	Signals	East W	Vest In	attention	Collision Involving Motor Vehicle in Transport				Passeng Car	er Stopped for Traffic	Signals	East	Vehicle Stopped	None	Vehicle in Transport	or another		
State 005LX Route 10279	0.02 Dec	e 1 LX reasing epost	3297306	02/24/09	11:08 PM	Possible Injury	Had NOT Been Drinking	1 (2	Entering at angle	At Intersection and Related		Dark- Street Lights On		Straight & Level		assenger S	Going Straight Nhead	Signals	East W	Vest S	top and	Exceeding Involving Reas. Safe Motor Speed Vehicle in Transport				Passeng Car	Going Straight Ahead	Signals	North	South	None	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02 Lan	Turn e LX creasing epost	3297507	03/01/09	11:35 AN	Possible Injury	Had NOT Been Drinking	1 (2	From same direction - both going straight one stopped - rear-end	- Intersection	Raining	Daylight		Straight & Grade	Pa Ca	assenger S	Going Straight Nhead	Signals	East W	vesi i	ollow Too losely	Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10 000 lb	Stopped for Traffic	Signals	East	Vehicle Stopped	None	Collision Involving	ine of		

														TR	SPER ROAD	SW / TYE	E DRIVE	SW/IN	TERSTA	TE 5 SOU	THBOUND RAMPS													
JUR- IS- DIC- TION PRIMARY TRAFFIC- WAY	MILE POST	IMPACT LOCATION	*REPOR NUMBE	T DATE	TIME	MOST SEVERE INJURY TYPE	MOST SEVERI SOBRIET TYPE	# # E I F IY N #	# # P P E D S	FIRST COLLISION TYPE / OBJECT STRUCK	JUNCTION RELA- TIONSHIP	WEATHER	LIGHT- ING CONDI- TIONS	ROAD- WAY SUR- FACE CONDI- TIONS	ROAD- WAY CHARAC- TERIS- TICS	C- VEH 1	VEH 1 ACTION	VEH 1 TRAFFIC CONTROL	VEH 1 COMP DIR FROM	EH 1 DRIVE OMP CONT R TO CIRC (UNIT	R DRIVER DRIVER 1 CONT 1 CIRC 2 SEQ 1 SEQ	(6)	(0)	(UNIT 1)	VEH 2 TYPE	VEH 2 ACTION	VEH 2 TRAFFIC CONTROL	VEH 2 COMP DIR FROM	VEH 2 COMP DIR TO	MV DRIVER CONT CIRC 1 (UNIT 2)	DRIVER 2 SEQ 1 AC	MV MV RIVER DRIVE MISC MISC CTION 1 ACTION JNIT 2) (UNIT	C CYCLIST C CONT N 2 CIRC 1	CONT CIRC 2
State 005LX Route 10279	0.02	Past Right Shoulder LX Increasing Milepost	3297530	03/29/09	7:04 A		Had NOT		1		At Intersection and Not Related	Clear or Partly Cloudy	Dawn	Ice	Straight & Bridge or Grade Overpas	Passenge Car	Going Straight Ahead	No Traffic Control	West Ea	Exceedin Reas. Sa Speed		ng (ice, turned to fast,	raised barrier											
State 005LX Route 10279	0.02	Intersecting Road Increasing Milepost	3297224	4 09/29/09	1:19 P	M No Injury	Had NOT Been Drinking	0 (2	From opposite direction - one left turn - one straight	within Major	Overcast	Daylight		Straight & Level	Passenge Car	r Making Left Turn	Stop Sign	West No	Did Not rth Grant R\ to Vehicl		Turn after stopping al red flashing light or stop sign	t		Passenger Car	Going Straight Ahead	Stop Sign	East	West	None	Involving Motor Vehicle in Transport	oceeded er pping flashing I light or p sign		
State Route 005LX	0.02	Lane 2 LX Decreasing Milepost	3297544	4 11/06/09	12:44 P	M No Injury	Had NOT Been Drinking	0 (2	From same direction - both going straight - one stopped - rear-end			Daylight		Straight & Bridge or Grade Overpas		Going Straight Ahead	Signals	East We	Follow T Closely	Collision Involving Motor Vehicle in Transport				Тахі	Stopped for Traffic	Signals		Vehicle Stopped	None	Collision Involving Sto Motor line Vehicle in Transport	e of		
State Route 005LX		Lane 1 LX Increasing Milepost	329790!	5 12/05/09	2:00 P	Possible Injury	Had NOT Been Drinking	2 (2	From same direction - both going straight - both moving - rear-end	At Intersection and Not Related	Clear or Partly Cloudy	Daylight	Wet	Straight & Grade	Passenge Car	Going Straight Ahead	No Traffic Control	West Ea	Exceedir Reas. Sa Speed	ng Follow Too Closely Closely Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10.000 lb	Slowing	No Traffic Control	West	East		Collision Involving Slo Motor and Vehicle in Transport	other		
State Route 005LX	0.02	Left Turn Lane LX Decreasing Milepost	329778	3 12/31/09	2:22 P	M No Injury	Had NOT Been Drinking	0 (3	From same direction - both going straight - one stopped - rear-end			Daylight		Straight & Grade	Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	East We	Exceedir Reas. Sa Speed	ng Follow Too Closely Collision Involving Motor Vehicle in Transport				Passenger Car	Stopped for Traffic	Signals		Vehicle Stopped		Collision Involving Sto Motor line Vehicle in Transport	e of		
State 005LX Route 10279	0.02	Left Turn Lane LX Decreasing Milepost	272284	6 04/07/10	3:46 P	M No Injury	Had NOT Been Drinking	0 (2	From same direction - one left turn - one straight			Daylight	Wet	Straight & Level	Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Other Traffic Control	North So	uth Inattentio	Collision Involving on Motor Vehicle in Transport				Passenger Car	Making Left Turn	Signals	North	East		Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279		Lane 2 LX Decreasing Milepost	3297446	6 09/25/10	9:38 P	M No Injury	Had NOT Been Drinking	0 (2	From opposite direction - one left turn - one straight	At Intersection and Related	Clear or Partly Cloudy	Dark- Street Lights On	Dry	Straight & Level	Pickup, Panel Truck or Vanette under 10 000 lb	Making Left Turn	Signals	West No	Did Not rth Grant R\ to Vehicl					Passenger Car	Going Straight Ahead	Signals	East	West		Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279	0.02	Lane 1 LX Increasing Milepost	3297894	4 10/05/10	4:47 P	M No Injury	Had NOT Been Drinking	0 (2	From same direction - both going straight - one stopped - rear-end	and Not	Clear or Partly Cloudy	Daylight	Dry	Straight & Grade	Passenge Car	Going Straight Ahead	No Traffic Control	West Ea	st Follow T Closely	Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10.000.lb	Stopped for Traffic	No Traffic Control		Vehicle Stopped	None	Collision Involving Sto Motor line Vehicle in Transport	e of		
State 005LX Route 10279		Lane 1 LX Increasing Milepost	329813	5 10/23/10	6:24 P	M No Injury	Had NOT Been Drinking	0 (2	Entering at angle	At Intersection and Related		Dark- Street Lights On		Straight & Level	Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	West Ea	st Other	Collision Involving Motor Vehicle in Transport				Daccongor	Making Right Turn	Signals	South	East	Other	Collision Involving Motor Vehicle in Transport			
State 005LX Route 10279		Lane 1 LX Increasing Milepost	3298276	5 10/29/10	4:15 P	M No Injury	Had NOT Been Drinking	0 (2	From same direction - both going straight - both moving - rear-end	At Intersection and Not Related	Clear or Partly Cloudy	Daylight	Dry	Straight & Bridge or Grade Overpas	Passenge	Going Straight Ahead	No Traffic Control	West Ea	st Follow T Closely	Collision Involving Motor Vehicle in Transport				Pickup, Panel Truck or Vanette under 10 000 lb	Slowing	No Traffic Control	West	East	None	Collision Involving Slo Motor and Vehicle in Transport	other		
State 005LX Route 10279		Lane 1 LX Increasing Milepost	3297756	5 12/21/10	5:55 P	Possible Injury	Had NOT Been Drinking	1 (2	From same direction - both going straight - one stopped - rear-end		Overcast	Dark- Street Lights On		Straight & Grade	Passenge Car	Going Straight Ahead	No Traffic Control	West Ea	Follow T Closely	Collision Involving Motor Vehicle in Transport	Out of control (ice, turned to fast, etc.) or sliding (not skidding)			Passenger Car	Stopped for Traffic	No Traffic Control	West	Vehicle Stopped	None	Collision Involving Sto Motor line Vehicle in Transport	e of		
State 005LX Route 10279	0.02	Lane 2 LX Decreasing Milepost	329709	7 01/09/1	11:17 A	Possible Injury	Had NOT Been Drinking	1 (2	From same direction - both going straight - both moving - sideswipe	Intersection		Daylight		Straight & Grade	Pickup, Panel Truck or Vanette under 10 000 lb	Changing Lanes	Signals	East We	Did Not Grant RV to Vehicl					Passenger Car	Going Straight Ahead	Signals	East	West		Collision Involving Motor Vehicle in Transport			

															TROSPE	R ROAD S	W / TYE	E DRIVE	SW / IN	TERST	TATE 5	SOUTHBOU	JND RAMI	PS												
JUR- IS- DIC- TION		MILE POST	IMPACT LOCATION	*REPORT NUMBER	DATE	TIME S	Most Evere Jury Type	MOST SEVERE SOBRIETY TYPE	# # # I F \ N A E J T H	. E E I	FIRST COLLISION TYPE / OBJECT STRUCK	JUNCTION RELA- TIONSHIP	WEATHER	LIGHT- ING CONDI- TIONS	ROAD- WAY SUR- FACE CONDI- TIONS	LOCATION C- CHARAC- TERISTICS	VEH I	VEH 1 ACTION		VEH 1 COMP DIR FROM	VEH 1 COMP DIR TO		IV IVER MV DRIVER C 2 SEQ	MV R 1 DRIVER 1 SEQ 2	(UNIT 1)	DRIVER D MISC ACTION 2 AC	MV RIVER MISC CTION 3 JNIT 1)	VEH 2 TYPE	VEH 2 ACTION CO	EH 2 AFFIC NTROL	VEH 2 COMP DIR FROM	MV H 2 DRIVER MP CONT TO CIRC 1 (UNIT 2)	MV DRIVER 2 SEQ 1		MISC ACTION 2	PED-CYCLIST CYCLI CONT CON CIRC 1 CIRC (UNIT 2) (UNIT
State Route	005LX 10279	0.02 L	eft Turn ane LX Decreasing Milepost	3298290	02/24/11	4:40 PM No	Injury I	Had NOT Been Drinking	0 0 2	2	From same direction - both going straight one stopped - rear-end	Intersection	Snowing	Daylight	Snow/SI Straight ush Grade	&	Passenge Car	Going Straight Ahead	Signals	East	West	Exceeding Reas. Safe Speed Follow Close	Collision Involvin Motor Vehicle Transpo	g in	Out of control (ice, turned to fast, etc.) or sliding (not skidding)			Truck or a Vanette o	stopped t Signal r Stop sign	nals I	East Veh Stop		Collision Involving Motor Vehicle in Transport			
State Route		0.08 R	ane 1 Off Ramp Decreasing Milepost Side of Mainline	C689481	06/06/07	7:50 AM Po	ossible ury		2 0 2	2	From same direction - both going straight one stopped - rear-end	Not at Intersection and Not Related	Unknown	Daylight	Dry Straight Level	&	Passenge Car		No Traffic Control		Vehicle Stopped				Stopped in line of traffic			Truck or S			North- east wes					
State Route		0.14 R	ane 1 Off Ramp Decreasing Milepost Side of Mainline	E013186	12/30/08	2:24 PM Inj	ssible	Had NOT Been Drinking	1 0 2	2	From same direction - both going straight both moving - rear-end	intersection	Clear or Partly Cloudy	Daylight	Wet Curve & Grade		Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Other Traffic Control	North- east		Follow Too Closely	Collision Involvin Motor Vehicle Transpo	g in			ı	Passonger	Oth ilowing Traf Cor	fic	North- Sou east wes			Slowing for another vehicle		
State Route		0.15 R	ane 1 Off Ramp Decreasing Milepost Side of Mainline	E000213	06/04/07	8:06 AM No	Injury I	Had NOT Been Drinking	0 0 1		All other non-collision	Not at Intersection and Not Related	Raining	Daylight	Wet Curve & Level	Other	Truck & Trailer	Going Straight Ahead	Other Traffic Control	North	WASI	Exceeding Reas. Safe Speed	Jackkni	fe	Struck curb, traffic island, or raised barrier before additional	tow veh stru tow	icle ick									
State Route		0.18 R D M	Past Right Shoulder Off Ramp Decreasing Milepost Side of Mainline	2824358	12/05/07	3:00 AM No	o Injury I	Unknown	0 0 1		Wood Sign Post	Not at Intersection and Not Related	Raining	Dark- Street Lights On	Wet Curve & Grade		Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	No Traffic Control			Apparently Asleep	Ran off the Roa		imnacts											
State Route		0.28 D	ane 2 Off Ramp Decreasing Milepost Side of Mainline	2822528	02/19/09	12:53 PM No	Injury I	Had NOT Been Drinking	0 0 2	2	From same direction - both going straight both moving - rear-end	Intersection Related but Not at Intersection	Clear or Partly Cloudy	Daylight	Dry Curve & Level		Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	North	South	Follow Too Closely	Collision Involvin Motor Vehicle Transpo	g in				Pickup, Panel Truck or Vanette under 10.000 lh	ilowing Sigr	nals I	North Sou	h None	Collision Involving Motor Vehicle in Transport	Slowing for another vehicle		
State Route		0.30 R D M	Left Turn Lane Off Ramp Decreasing Milepost Side of Mainline	E089948	02/01/11	4:20 PM No	Injury I	Had NOT Been Drinking	0 0 2	2	From same direction - all others	Intersection Related but Not at Intersection	Clear or Partly Cloudy	Daylight	Dry Curve & Grade		Pickup, Panel Truck or Vanette under 10 000 lb	Changing Lanes	Signals	North	South	Did Not Grant RW to Vehicle	Collision Involvin Motor Vehicle Transpo	g in			ı	Passenger S	Going Sitraight Sigr Sigr	nals I	North Sou	h None	Collision Involving Motor Vehicle in Transport			
State Route		0.32 R	ane 1 Off Ramp Decreasing Milepost Side of Mainline	2180595	05/11/06	5:02 PM Inj	issible	Had NOT Been Drinking	1 0 2	2	Same directior - both turning right one stopped real end	At Intersection		Daylight	Dry Curve & Level		Pickup, Panel Truck or Vanette under 10 000 lb	Making Right Turn	Yield	North- east	West	Follow Too Closely						Passenger S Car fo	stopped or Traffic		North- east Stop		Collision Involving Motor Vehicle in Transport	for another vehicle	Stopped in process of turning	
State Route		0.32 R	ane 1 Off Ramp Decreasing Milepost Side of Mainline	2319980	06/09/06	1:05 PM No	Injury I	Had NOT Been Drinking	0 0 2	2	Same directior - both turning right one stopped real end	At Intersection		Daylight	Dry Curve & Level		Pickup, Panel Truck or Vanette under 10 000 lb	Stopped for Traffic			Vehicle Stopped	None	Collision Involvin Motor Vehicle Transpo	g in	Stopped for another vehicle			Passenger Car	Making Right Yiel urn	d I	North Wes	t Inattention	Collision Involving Motor Vehicle in Transport			
State Route		0.32 R	ane 2 Off Ramp Decreasing Milepost Side of Mainline	2824320	01/15/08	11:49 AM Pc	ossible	Had NOT Been Drinking	1 0 2	2	From same direction - both going straight both moving - rear-end	At Intersection and Related	Clear or Partly Cloudy	Daylight	Dry Straight Level	&	Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	North		Exceeding Opera Reas. Safe Hand Speed Telec nicati	ating Involvin held Motor commu Vehicle	g in		Hit and run	I	Passenger S	Going Straight Sign Straight Sign	nals I	North Sou	h None	Collision Involving Motor Vehicle in Transport			
State Route	005R1 10303	0.32 R D M	eft Turn ane Off Ramp Decreasing Milepost Side of Mainline	2849697	05/31/08	10:00 AM No	Injury I	Had NOT Been Drinking	0 0 2	2	From same direction - both going straight one stopped - rear-end		Clear or Partly Cloudy	Daylight	Dry Straight Level	&	Pickup, Panel Truck or Vanette under 10,000 lb	Going Straight Ahead	Signals	North		Exceeding Reas. Safe Speed	Collision Involvin Motor Vehicle Transpo	g in	Skidded attempting to avoid collision with vehicle, person,			Pickup, Panel Truck or S Vanette founder 10,000 lb	stopped or Traffic Sign	nals I	North Veh Stop	cle ped None				
State Route		0.32 R	ane 1 Off Ramp Decreasing Milepost Side of Mainline	3297004	08/03/08	11:44 AM Ev Inj	rident	Had NOT Been Drinking	2 0 2	2	Same direction - both turning right one stopped real end	At Intersection and Related	Clear or Partly Cloudy	Daylight	Dry Straight Level	&	Pickup, Panel Truck or Vanette under 10 000 lb	Going Straight Ahead	Signals	North	West	Follow Too Closely	Collision Involvin Motor Vehicle Transpo	g in	object atc			Passenger S Car fo	stopped or Traffic Sigr	nals I	North Veh Stop					

														TR	OSPER	ROAD SW / 1	TYEE DI	RIVE S	W / IN	TERST	ATE 5	OUTH	BOUND	RAMPS																\neg
JUR- IS- DIC- TION PRIMARY TRAFFIC- WAY	MILE POST	IMPACT LOCATION	*REPOR NUMBE	T DATE	TIME	MOST SEVERE INJURY TYPE	MOST SEVERE SOBRIET TYPE	# # E I I Y N A	# # # P	FIRST COLLISION L TYPE / O OBJECT STRUCK	JUNCTION RELA- TIONSHIP	WEATHER	CONDI-	ROAD- WAY SUR- FACE CONDI- TIONS	WAY CHARAC- TERIS-	- CHARAC- ,	EH 1 V	ZEH 1 CTION	VEH 1 TRAFFIC CONTROL	COMP	COMP DIR TO	MV DRIVER CONT CIRC 1 (UNIT 1)	CIRC 2	MV DRIVER 1 I SEQ 1	MV DRIVER 1 SEQ 2	DRIVER 1 SEQ 3		MV DRIVER MISC ACTION 2 (UNIT 1)	MV DRIVER MISC ACTION 3 (UNIT 1)	VEH 2 TYPE	VEH 2 ACTION	VEH 2 TRAFFIC CONTROI	VEH 2 COMP DIR FROM	VEH 2 COMP DIR TO	MV DRIVER CONT CIRC 1 (UNIT 2)	DRIVER 2 SEQ 1	DRIVER DE	RIVER C' MISC TION 2	CONT CIRC 1	PED- CYCLIST CONT CIRC 2 (UNIT 2)
State 005R1 Route 10303	0.32	Lane 1 Off Ramp Decreasing Milepost Sid of Mainline		5 03/23/0	9 11:14 AM	л No Injury	Had NOT Been Drinking	0 () 2	Same direction - both turning right one stopped readend			Daylight		Straight & Level	Van und	iel Ma ck or Rig rette Tur		'ield	North- east	Vest	ollow Too osely		Collision Involving Motor Vehicle in Transport						Passenger Car	Stopped for Traffic	Yield		Vehicle Stopped	None	Collision Involving S Motor p Vehicle in t Transport	process of			
State 005R1 Route 10303	0.32	Lane 2 Off Ramp Decreasing Milepost Sid of Mainline		2 06/22/0	9 2:34 PM	л No Injury	Had NOT Been Drinking	0 () 2	From same direction - bo going straight one stopped rear-end	h At Intersection and Related	Clear or Partly Cloudy	/ Daylight	Dry	Straight & Level				ignals	North S	South In	attention	Follow Too Closely	Collision Involving Motor Vehicle in Transport						Passenger Car	Stopped for Traffic	Signals		Vehicle Stopped	None	Collision Involving Motor Vehicle in Transport	or another			
State 005R1 Route 10303	0.32	Lane 1 Off Ramp Decreasing Milepost Sid of Mainline		4 08/12/0	9 2:31 PM	л No Injury	Had NOT Been Drinking	0 () 2	Same direction of the stopped respondent	At	Clear or Partly Cloudy	/ Daylight	Dry	Curve & Level	Van und	nel Ma ck or Rig nette Tur		ignals	North V	Vest	ollow Too osely		Collision Involving Motor Vehicle in Transport						Passenger Car	Stopped for Traffic	Signals	North	Vehicle Stopped	None	Collision Involving S Motor p Vehicle in t Transport	process of			
State 005R1 Route 10303	0.32	Lane 1 Off Ramp Decreasing Milepost Sid of Mainline		7 05/07/10	2:10 PM	Л No Injury	Had NOT Been Drinking	0 () 2	From same direction - bo going straight both moving sideswipe	h At Intersection and Related	Clear or Partly Cloudy	/ Daylight	Dry	Curve & Grade		senger Ch	anging nes	ignals	North S	South C	her		Collision Involving Motor Vehicle in Transport						Pickup, Panel Truck or Vanette under 10.000 lb	Changing Lanes	Signals	North	South	Other	Collision Involving Motor Vehicle in Transport				
State 005R1 Route 10303	0.32	Left Turn Lane Off Ramp Decreasing Milepost Sid of Mainline		0 10/05/10	12:38 PM	л No Injury	Had NOT Been Drinking	0 () 2	From same direction - bo going straight both moving sideswipe	At Intersection and Not Related	Clear or Partly Cloudy	/ Daylight	Dry	Straight & Level	Pas Car	senger Ch Lar	anging s	ignals	North S	South G	d Not rant RW Vehicle		Collision Involving Motor Vehicle in Transport						Pickup, Panel Truck or Vanette under	Going Straight Ahead	Signals	North	South	None	Collision Involving Motor Vehicle in Transport				
State 005R1 Route 10303	0.32	Lane 1 Off Ramp Decreasing Milepost Sid of Mainline		4 02/16/1	1 6:06 PM	л No Injury	Had NOT Been Drinking	0 () 2	Same direction both turning right one stopped readend			Daylight	Dry	Straight & Level	Van und	iel Ma ck or Rig rette Tur		'ield	North V	Vest R	ac Sata	Follow Too Closely	Collision Involving Motor Vehicle in Transport						Passenger	Stopped for Traffic	Yield		Vehicle Stopped	None	Collision Involving S Motor p Vehicle in t Transport	process of			
State 005S5 Route 10247	0.01	Lane 1 On Ramp Decreasing Milepost Sid of Mainline		4 03/17/0	7:05 AM	л No Injury	Had NOT Been Drinking	0 () 2	From same direction - bo going straigh both moving rear-end	- Intersection		Daylight	Wet	Curve & Grade		senger Go Str		lo Traffic Control		North-	ceeding eas. Safe	Driver Distractions Outside Vehicle	Collision Involving Motor Vehicle in Transport						Passenger Car	Going Straight Ahead	No Traffic Control		North- west	None	Collision Involving Motor Vehicle in Transport				
State 005S5 Route 10247	0.01	Left Shoulde On Ramp Decreasing Milepost Sid of Mainline	284904	7 08/12/0	9:46 AN	√ Unknown	Had NOT Been Drinking	0 () 1	Curb, Raised Traffic Island Raised Media Curb	or Intersection	Raining	Daylight	Wet	Curve & Level	Pas Car	Senger Str			South- N east w	lorth- lest	cceeding eas. Safe peed		Collision Involving Fixed Object		((ti	Out of control (ice, turned o fast, etc.) or sliding (not skidding)													

												TR	OSPER	ROAD	SW / NOR	THWES	T FUFI	SITE	ACCES	s										
JUR- IS-DIO TION		MILE IMPACT LOCATION	*REPORT DA	ATE T	MOST SEVERI INJURY TYPE		# # I F V N #	# # P E L D H A	FIRST COLLISION TYPE / OBJECT STRUCK	JUNCTION RELA- TIONSHIP	WEATHER	LIGHT- ING CONDI-	ROAD- WAY SUR-	ROAD- WAY CHARAC- TERIS- TICS	LOCATION CHARAC- TERISTICS	VEH 1 TYPE	VEH 1 ACTION	VEH	VEH 1		MV DRIVER CONT CIRC 1 (UNIT 1)	MV DRIVER CONT CIRC 2 (UNIT 1)	MV DRIVER 1 MISC ACTION 1 (UNIT 1)		H 2 TRAFFI CONTRO	VEH 2 COMP DIR FROM	CONT	DRIVER 2 SEQ 1 A	ORIVER C MISC CTION 1	PED-CYCLIST CYCLIST CONT CONT CIRC 1 CIRC 2 (UNIT 2)
	005LX 10279	0.02 Intersecting Road Increasing Milepost	2572701 10/	12/06 8:	56 PM Evident Injury	Had NOT Been Drinking	1 (Vehicle - Pedal- cyclist	At Driveway within Major Intersection	Clear or Partly Cloudy	Dark- Street Lights On	11)r\/	Straight & Grade		Passenger Car	Making Right Turr	No Traff n Control		East	Other	Collision Involving Pedal- cyclist							Sid	n Wrong de Of oad Headlight Violation
	005LX 10279	0.02 Intersecting Road Increasing Milepost	2384938 01/	02/07 5:	39 PM No Injury	Had NOT Been Drinking	0 (0 2	One car entering driveway access	At Driveway within Major Intersection	Raining	Dark- Street Lights On	Wet	Curve & Level		Pickup, Panel Truck or Vanette under	Making Left Turn	No Traff Control		South	Did Not Grant RW to Vehicle	Collision Involving Motor Vehicle i Transpor	Tractor Semi- Trailer	& Goin Strai Ahea	g No Traffi ght Control	North South	None	Collision Involving Motor Vehicle in Transport		
	005LX 10279	0.02 Intersecting Road Increasing Milepost	2722754 10/	26/07 7:	17 PM No Injury	Had NOT Been Drinking	0 (0 2	One car leaving driveway access	At Driveway within Major Intersection	Clear or Partly Cloudy	Dusk	Dry	Straight & Grade	Parking Lot	Pickup, Panel Truck or Vanette under	Making Right Turr	No Traff n Control		East	Improper Turn	Collision Involving Motor Vehicle i Transpor	Passen Car	ger Stop for Ti	ped No Traffic raffic Control	South Vehicle Stopped		Involving Motor pri	opped ior to rning jht	
	005LX 10279	0.02 Intersecting Road Increasing Milepost	2722630 04/	10/08 3:	13 PM No Injury	Had NOT Been Drinking	0 (0 2	One car entering driveway access	At Driveway within Major Intersection	Clear or Partly Cloudy	Daylight	Dry	Straight & Level		Pickup, Panel Truck or Vanette under 10 000 lb	Making Left Turn	Signals	North	East	Improper Turn	Collision Involving Motor Vehicle i Transpor	Passen Car	Goin Strai Ahea	ght Signals	North South	None	Collision Involving Motor Vehicle in Transport		
	005LX 10279	0.02 Lane 1 LX Increasing Milepost	3297504 02/	20/09 4:	16 PM No Injury	Had NOT Been Drinking	0 (0 2	Entering at angle	At Driveway within Major Intersection	Clear or Partly Cloudy	Daylight	Dry	Straight & Grade			Making Right Turi	No Traff n Control	fic South	East	Did Not Grant RW to Vehicle	Collision Involving Inattention Motor Vehicle in Transpor	1	Goin Strai Ahea	g No Traffi ght Control	West East	None	Collision Involving Motor Vehicle in Transport		

APPENDIX F
Vehicle Turning
Path

TRUCK TURNING PLAN 54TH AVENUE S.W. (TROSPER ROAD S.W.) 加 SW 30.00 $L \square$ 4.00 20.00 МН WIDTH : 8.00 TRACK : 8.00 LOCK TO LOCK TIME : 6.0 STEERING ANGLE : 33.8 28.50 28.50 **∤** 0.00 WB-67D Tractor Width Trailer Width Tractor Track Trailer Track : 8.00 : 8.50 : 8.00 : 8.50 : 6.00 : 15.6 : 70.0 Lock to Lock Time Steering Angle Articulating Angle DISCLAIMER: 1. THIS SITE PLAN IS BASED ON A SURVEY BY BARGHAUSEN CONSULTING ENGINEERS, INC., DATED 11/8/12. THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF COMPLETE ZONING INFORMATION OR CONFIRMATION OF SITE DEVELOPMENT STANDARDS AND THUS THE SITE DEVELOPMENT FEASIBILITY IS NOT IMPLIED OR GUARANTEED.

Fred Meyer

STORE #00--TUMWATER

501 TROSPER ROAD S.W. TUMWATER, WA

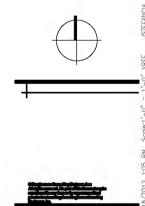
THE KROGER CO. AND FRED MEYER STORES INC.

31 ORES INC. 3800 SE 22ND AVENUE PORTLAND, OREGON 97202 503.232.8644 503.797.3509 FAX



FRED MEYER FUELING FACILITY

501 TROSPER ROAD S.W. TUMWATER, WA





DD-4 TRUCK TURNING PLAN

APPENDIX G
Signal Timing
Plans

TRAC	ONEX TMP390 DATA BASE REPORTER FILE A:\DB/	\SE-A1\SB()FF.I11				Ramps		
	EM # 11 TROSPER Drop Name: I-5 SB OFFRAMP his report printed: 08:20:58 05-23-2012	1)rop # 2			•	\$305.		
	OD CUBRENT CALENDAR AND CLOCK	5 · R ·		7	rosper		↓		
M N B M Y R	i CURRENT CALENDAR YEAR	DATA 11			rosper Ø1.	1		<	- φ2
MON	CURRENT CALENDAR MONTH	12						4	Ø5
DOM	CURRENT DAY OF MONTH	7			ø6 -		t t		-Alicandersonal
HR	CURRENT HOUR OF DAY	14				\boxtimes			
MIN	CURRENT MINUTE	20				رب			
RTC	REAL TIME CLK-1=DAYLT SAVE-2=NOT DAYLT	1					64		•
SEC	CURRENT SECOND	18					"		
DOW	DAY OF WEEK 1=SUNDAY	4				•	' جن' ا		
RSV	RESERVED - DO NOT EDIT	32					TYee Or		
CON	39=TMP390 DO NOT EDIT	39 10					8		
REV Ver	REVISION 1=A 2=B ETC DO NOT EDIT VERSION DISPLAY ONLY - DO NOT EDIT	10					F		
AGA EEEE	AREASTON DISCUS ONLY - DO BOT POTT	0 :=======	:=======					22222222	
(2)3 MNEM	90 MODE, PAGE 0, PHASE 0 - OPTION SELECTION	DATA							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
USE	PHASES IN USE	654321							
PED	PEDESTRIAN - ENABLE CONCURRENT PED MOVE	632							
FWK	FLASHING WALK	******	•						
ARW	ACTUATED REST IN WALK		•						
WCP	WALK CLEARANCE PROTECT		,						
DEN	DENSITY - ENABLES DENSITY OPERATION								
LCP	LAST CAR PASSAGE	1 + (1 3 +)							
VN1	VEHICLE TO NON-ACTUATED NO. 1	6 2							
PN1	PEDESTRIAN TO NON-ACTUATED NO. 1	62	•						
VN2 PN2	VEHICLE TO NON-ACTUATED NO. 2 PEDESTRIAN TO NON-ACTUATED NO. 2	1++++++	,						
FGN	CANADA FAST FLASH GREEN		1						
MNU	ENABLE MENU DISPLAY AND TIMING	0							
	SELECT LEFT TURN AMBER BLANK								
	SELECT ANTI-BACKUP PHASES		•						
				********					1. 有名字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字字
	90 MODE, PAGE 0, PHASES 1 TO 8 - PHASE TIMING		מ זות	DII 1	D11 4	n# F	nu (D# 7	DB 0
MNEM	MINIMUM GREEN INTERVAL	PH 1 4	PH 2 10	PH 3	PH 4 4	PH 5 4	PH 6 10	PH 7 0	P# 8 0
	WALK INTERVAL	0	10 6	4 6	0	0	6	0	0
	DEDESTRIAN CLEARANCE	ñ	14	19	0	0	19	0	0
	PASSAGE TIME (PRESET GAP)	3.0	3.0	3.5	3.2	3.0	2.7	0.0	0.0
	MAXIMUM GREEN NO. 1	20	28	22	15	15	28	Ö	0
	MAXIMUM GREEN NO. 2	20	40	38	14	40	30	0	0
		3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.0
RED	ALL RED CLEARANCE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	RED REVERT MIN TIME	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
ABA	ACTUATIONS BEFORE ADDED INITIAL	2	2	2	0	2	2	0	0
S/A	SECS PER ACTUATION ADDED INITIAL	2.0	2.0	2.0	0.0	2.0	2.0	0.0	0.0
UVI	MAXIMUM ADDED INILIAL LIME	6	6	6	0	6	6	0	0
	TIME BEFORE REDUCTION	b 20	6 20	6	0	6	6 20	0	0
	TIME TO REDUCE TO MINIMUM GAP	20 3,0	20 3.0	20 3.0	20 0.0	20 3.0	20 3.0	20 0.0	20 0.0
	MINIMUM GAP CONDITIONAL MINIMUM	5.U 6	ა. u 6	ა. ს ნ	0.U 0	3.U 6	5.U 6	0.0	0.0
	CONDITIONAL MINIMON	•	-				=	v ====================================	

```
(4)390 MODE, PAGE 0, PHASE 9 - ADDITIONAL PARAMETERS
MNEM
PUF POWER UP FLASH
SAR START-UP ALL RED TIME
                                    5
SUR START UP RED
SUG START UP YRLLOW
                                   . . 6 . . . 2 .
MSF MAIN STREETS FOR NUTCD FLASH
                                   . . 6 . . . 2 .
FMN MINIMUM MUTCD FLASH TIME
DLE DUAL ENTRY
                                  . . 6 . . . 2 .
SGO SIMULTANEOUS GAP OUT
                                   . . 6 . . . 2 .
NNR MINIMUM RECALLS
MNS FLAGS FOR SOFT MNR
MXR MAXIMUM RECALLS
PDR PEDESTRIAN RECALLS
LKD LOCKING VEHICLE DETECTORS
LCD LCD DISPLAY TEST
BLT DISPLAY BACKLIGHT ENABLE
                                   1
(5)390 MODE, PAGE O. PHASES A TO D - OVERLAPS (IF FOE=0 THEN NEMA)
                           OVERLAP A OVERLAP B OVERLAP C OVERLAP D
STD STANDARD OVERLAPS
                                  ...54... ...... ...... ......
PRO PROTECTED OVERLAPS
                                  PER PERMISSIVE OVERLAPS
                                  0
AXG AUXILIARY GREEN
                                          0
                                                    0
                                                             ()
                                 3.0 3.0 3.0 3.0
0.0 0.0 0.0 0.0
AXY AUXILIARY YELLOW
AXR AUXILIARY RED
FPP FOLLOW PARENT PHASES
                                 ******** ******** ********
(6)390 MODE, PAGE O, PHASE E - MISC. FUNCTION ENABLE
MNEM
FOE FRIPNLOL 2=RT T 3=FST FLS 1=STD OL
SFE ENABLE PED CLEARS AS SPEC FUNCT OUTPUT
                                  0
STE STE - ENB INTERVAL RESET AFTER STOP TIME
SOE SEC KNABLE - 1=BNAB EXT ROTATION INPUTS
CSE CONDITIONAL SERVICE ENABLE
NOE NEGATIVE OVERLAP ENABLE
DME DIMMING ENABLE
                                   Ω
PFE PREEMPT FLASH ENABLE
POM PREEMPT OUTPUT MODE
                                   Û
                                1
TOD TIME OF DAY ENABLE 1=ON 0=OFF
CRD COORDINATION ENABLE 1=ON 0=OFF
DIA DIAG ENAB 4=EEPROM 3=CPU 2=RAM 1=PROM
SCY SECURITY CODE ACCESS - DO NOT EDIT
CFG CONTROLLER CONFIGURATION
FLE DISABLE VOLTAGE MONITOR IN MUTCO FLASH
TBS START TBR AFTER INITIAL INTERVALS
                                   ()
```

```
17)390 NODE, PAGE O, PHASE F - MORE DATA
                                    DATA
MNEM
PNT PRINTED REPORT ENABLE SELECT START PAGE
SOK FRONT PANEL SEO SEL - PAGE 5-7 IN MANUAL
SOC PHASE SEO SELECTED BY EXTERNAL INPUT
SQI EFFECTIVE PHASE SEQUENCE - DO NOT EDIT
DRD DIM REDS
DYL DIM YELLOWS
DGN DIM GREENS
DWK DIM WALKS
DDW DIM DON'T WALK
DOR DIM OVERLAP REDS
DOY DIM OVERLAP YELLOWS
DOG DIM OVERLAP GREENS
CLK TEST FUNCTION - DO NOT EDIT
SAV ENABLE TOD EDIT SAVE
ACT ACTIVE TOD PLAN OSTOD OFF OR NO PLAN
AUD ENABLE AUDIBLE KEY
                                    1
(8)390 MODE. PAGE 1. PHASE 0 - RR PREEMPT TIMING
MNBM
                                    DATA
TPC PEDESTRIAN CLEARANCE
                                    3.0
TY1 YELLOW 1
TR1 ALL RED 1
                                   1.0
TM1 MINIMUM GREEN 1
TG1 GAP 1
                                    0.0
                                   3.0
TY2 YELLOW 2
TR2 ALL RED 2
                                   1.0
TM2 MINIMUM GREEN 2
                                   0.0
TG2 GAP 2
TY3 YELLOW 3
                                   3.0
TR3 ALL RED 3
                                   0.0
TPM PHASE MINIMUM
                                   3
                                   3.0
TPG PHASE GAP
TY4 YELLOW 4
                                   3.0
TR4 ALL RED 4
                                   1.0
(9)390 MODE, PAGE 1, PHASE 1 - RE PREEMPT SEQUENCE SELECT
CGR 1ST TRACK CLEAR GREENS
COG 1ST TRACK CLEAR OVERLAPS (ABCD) 1=A, ETC
TC2 2ND TRACK CLEAR GREENS
T20 2ND TRACK CLEAR OVERLAPS (ABCD) 1=A, ETC.
TGR TRACK PREEMPT GREENS
TOG TRACK PREEMPT OVERLAPS (ABCD) 1=A, ETC.
TRG RETURN PHASE GREENS
PRM RR PREEMPT RETURN MODE TO COORDINATION
PRR PREEMPT RED REVERT TIME
                                    2.0
PPR PRO CALLS AFTER PREEMPT
PVE VEHICLE CALLS AFTER PREEMPT
TVO VEHICLE OMITTED IN MINI CYCLE(ABCD)1=A,ETC ......
TPO PED OMITS FOR MINI CYCLE PHASES
TOO OVERLAP OMITTED IN MINI CYCLE(ABCD)1=A.ETC ......
```

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(10)390 NODE, PAGE 1, PHASES 2 TO 5 - EMERGENCY VEHICLE PREEMPT
                                       EMER.VEH. 1 EMER.VEH. 2 EMER.VEH. 3 EMER.VEH. 4
MNEM
EDE DELAY
                                       0
                                                0 0
EPC PED CLEAR
                                                6
                                       6
                                                          б
                                                                   6
                                                        3.5
EY1 YELLOW 1
                                       3.5
                                               3,5
                                                                   3.5
ER1 ALL RED 1
                                       1.0
                                               1.0
                                                        1.0
                                                                  1.0
KMN MINIMUM PREEMPT DWELL GREEN
                                      3
                                               3
                                                        3
ERG RETURN GREENS
                                       . . 6 . . . 2 .
                                              ...5...1 ..6...2. ....4...
PRM PREEMPT RETURN MODE TO COORDINATION
                                       41914844 34444449 44711144 66467144
LOK PREEMPT CALL LOCKING
                                       . . . . . . . .
                                                . . . . . . . .
                                                         . . . . . . . .
                                                                   . . . . . . . . .
                                                255
EMX PREEMPT MAXIMUM GREEN IN LOW PRIORITY
                                       255
                                                          255
                                                                   255
(11) CRD. PAGE O, PHASE O - MANUAL SELECTIONS
MNEM
                                       DATA
F/C FREE/COORDINATED - 1=COORDINATED
S/F SEMI/FULLY ACTUATED - 1=FULLY ACTUATED
DRQ DOWNLOAD REQUEST ENABLE
SYC SYNC TOLERANCE IN SECONDS
M/L MASTER/LOC CYCLE DISPLAY-1=LOCAL CYCLE
DAL DIAL SELECT
OFF OFFSET SELECT
SPL SPLIT SELECT
L/R LOCAL/REMOTE SWITCH - 0=LOCAL 1=REMOTE
TDP TIME OF DAY PLAN MANUAL SELECTION
SMP DETECTOR SAMPLING PERIOD IN MINUTES
                                      15
DVV DIVIDER FOR DETECTOR REPORT VOLUMES
CME ENABLE MAX DURING CRD PHASES
DPO DISABLE PED OMIT IN CRD PHASES
SCP ENABLE SECONDARY COORDINATION PHASES
```

112	ADD DIAGO 1 MA C DULAGO A DILI DIDINOMENO																			
	CRD, PAGES 1 TO 6, PHASE 0 - DIAL PARAMETERS	DIA	г 1		DIA	7		DIA	, ,		n t å	L 4		DIA	r s		DIA	1.6		
MNE	CYCLE LENGTH	120			120			135			135			120			120			
	OFFSET 1	8			0			28			0			116			116			
0F2	OFFSET 2				0			0			0			0			0			
		0			0			0			0			0			Û			
	OFFSET 3	0			0			0			0			0			0			
0F4	OFFSET 4	0			0			0			0			0			0			
	OFFSET 5	-																		
	MAXIMON SHRINKAGE PER CYCLE	10			10			10			10			10			10			
	MAXIMUM EXPANSION PER CYCLE	10			10			10			10			10			10			
	AIRTD BEKIOD	0			0			0			0			0			0			
	PHASE SEQUENCE - PAGE 2-16 OF MANUAL							•			0			0			U			
	MAIN STREET GREEN COORD PHASES(1 PER RING)									•	144	3 .		ხ	2		6	2		
										====	2222	====	====	====	:::::	2222	2222	5525		
(13)	CRD, PAGES 1 TO 6, PHASES 1 TO 3 - SPLIT DIVI	SLON		4.9	0.4	٥. ٥	0.0	2.4	2. 4	4. 4	1.1	4.0	4.1	r. 4	r . 6	F . 11	C . 1	C . A	1.1	
MNER	DELET 4 COLUMN DEVERSE	1)1	1)/	173	2>1	474	773	3)1	372	3)j	421	4>2	4>3	3>I	572	575	0>1	074	0/3	
SUI	PHASE 1 SPLIT DIVISION	21	11	1/	14	11	11	13	19	13	14	14	14	17	11	11	1/	1/	11	
שעה	PRADE & SPLIT DIVIDIUM	4.3	J0	JO	JU	JO	30	26	44	24	JU	JU	วข	Jū	JQ.	JO	JŪ	Ju	10	
SD3	PHASE 3 SPLIT DIVISION	31	34	34	39	34	34	43	ĝj od	43	54	34	14	J4	34	14	jį	j4	J4	
	PHASE 4 SPLIT DIVISION	23	51	31	31	31	31	31	31	31	31	31	31	31	51	31	31			
	PHASE 5 SPLIT DIVISION	23	13	13	19	13	13	26	26	26	19	19	19	13	13	13	13		13	
	PHASE 6 SPLIT DIVISION																			
		0																	0	
SD8	PHASE 8 SPLIT DIVISION	0	-	-				0	0	0	0	-	0	-	0	0	0	0	0	
	######################################	25222	*===	2222		:::::	===:	3252	2223	2522			225	2222	:::::	ESES:		2222	22222	2242222
. ,	CRD - ACTIVE PARAMETERS	D 1 / II																		
KNEM		DATA	ł																	
	CURRENT DIAL IN BFFECT - DO NOT EDIT	0																		
	CURRENT OFFSET IN EFFECT - DO NOT EDIT	0																		
	CURRENT SPLIT IN RFFECT - DO NOT EDIT	0																		
SEQ	CURRENT SEQUENCE IN EFFECT	0																		
2222		55331	::2:	2222	-5521	222	::::::			1152	====			=====		2222	1555	====	2555	222222
	CRD, PAGE 8, PHASE O - SYSTEM PARAMETERS																			
MNEM																				
	SYSTEM MODE ENABLE	1																		
	ENABLE AUXILIARY DETS AS SYSTEM DETECTORS		,	•																
	DROP ADDRESS FOR SYSTEM	2																		
	INTERSECTION PLAN NUMBER - DISPLAY ONLY	9																		
	INTERSECTION PLAN MODE 1=ON 2=WWV RECEIVE	1																		
	DETECTOR FAILURE TIME	255																		
	FAILED DETECTORS DISPLAY ONLY NO EDIT																			
	ENABLE LOCAL DET FAIL MONITORING			•																
5MV	FIVE MINUTE VOLUME DIV 10 DISPLAY ONLY	7																		
	HOUR OF SYNCHRONIZATION	0																		
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	HOUR TO SET CLOCK TO ON EXTERNAL INPUT	0																		
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(16)	TOD, PAGE 1, PHASE 0 - PLANS 1 THROUGH 6						
MNEM		PLAN 1		PLAN 3	PLAN 4	PLAN 5	PLAN 6
NOM	NUMBER OF THIS PLAN	1	2	3	4	5	0
YR	YEAR THIS PLAN CAN FIRST BE RFFECTIVE	6	7	7	7	6	0
MON	MONTH THIS PLAN FIRST BE EFFECTIVE	10	9	9	9	10	10
DOM	DAY OF MONTH PLAN FIRST EFFECTIVE	20	11	11	11	20	20
HR	HOUR OF DAY PLAN FIRST RPFECTIVE	7	7	8	8	11	0
MIN	MINUTE THIS PLAN FIRST EFFECTIVE	15	35	0	15	30	0
TYP	TYPE OF PLAN - MANUAL PAGE 4-2	8	8	8	8	8	8
F/C	FREE/COORDINATED - 1=COORDINATED	1	1	1	0	1	0
MDT	1=CNA1 2=CNA2 3=WRM 4=DSA 5678 SEE MANUAL						. , , , , , , ,
DAL	DIAL	2	4	2	0	1	V
OFF	OFFSET	1	1	1	0	1	0
\mathtt{SPL}	SPLIT	1	1	1	0	1	U
S/F	SEMI/FULLY ACTUATED - 1=FULLY ACTUATED	0	0	0	U	U	U
FLA	PROGRAMMED FLASH - 1=ENABLED	Q	Ü	Ü	0	U	Ų
SPF	SPECIAL FUNCTION				^		0
DIM	DIMMING ENABLE	0	0	0	0	0	•
MNR		******			******	* * * * * * * * *	******
MXR			14411414			6 2	1+1+11+1
PDR	PEDESTRIAN RECALL				********		
MX2	SRLECT MAX 2 OPTION	,,,,,,,,,			*******		1+++++
DEN	DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16.	۸	0	n	A	0	0
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RRD		*****			1111111		114(+114
ONT	PROESTRIAN OMIT						
OMP	OMIT RED CLEAR						11141414
UMA	SAFRENKARAKANANANANANANANANANANANANANANANANAN				******		
(17)		(14 and 144 and 144 and 144 and 144 and 144 and 144	4 E 4 4 E E E 6 E 7 E 9		****		
(17) KNEM	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12	PLAN 7	PLAN 8	PLAN 9	PLAN 10	PLAN 11	PLAN 12
MNEM	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12	PLAN 7	PLAN 8 0	9	PLAN 10 0	11	PLAN 12 12
MNEM	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S	7 6	0	9 6	0	11 6	
NUK	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN	7 6 10	0 0 10	9 6 10	0 0 10	11 6 10	
MNEM NUM YR	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE	7 6 10 20	0	9 6 10 20	0 0 10 20	11 6 10 20	12 7 1 9
MNEM NUM YR MON	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE	7 6 10	0 0 10	9 6 10 20 13	0 0 10	11 6 10 20 15	12 7 1 9 16
MNEM NUM YR MON DOM	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE	7 6 10 20	0 0 10 20	9 6 10 20	0 0 10 20	11 6 10 20	12 7 1 9 16 15
MNEM NUM YR MON DOM HR	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2	7 6 10 20 12	0 0 10 20	9 6 10 20 13	0 0 10 20	11 6 10 20 15	12 7 1 9 16
MNEM NUM YR MON DOM HR MIN	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED	7 6 10 20 12 20	0 0 10 20	9 6 10 20 13	0 0 10 20	11 6 10 20 15	12 7 1 9 16 15
MNEM NUM YR MON DOM HR MIN TYP F/C MDT	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1-CNA1 2-CNA2 3-WRM 4-DSA 5678 SEE MANUAL	7 6 10 20 12 20	0 0 10 20	9 6 10 20 13	0 0 10 20	11 6 10 20 15	12 7 1 9 16 15
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL	7 6 10 20 12 20 8	0 0 10 20 0 0 0	9 6 10 20 13 15 8	0 0 10 20 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET	7 6 10 20 12 20 8	0 0 10 20 0 0 0	9 6 10 20 13 15 8	0 0 10 20 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT	7 6 10 20 12 20 8	0 0 10 20 0 0 0	9 6 10 20 13 15 8	0 0 10 20 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED	7 6 10 20 12 20 8	0 0 10 20 0 0 0	9 6 10 20 13 15 8	0 0 10 20 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED	7 6 10 20 12 20 8	0 0 10 20 0 0 0	9 6 10 20 13 15 8	0 0 10 20 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
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MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL SPF FLA SPF DIM	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRM 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 10 20 0 0 0 0 0 0	9 6 10 20 13 15 8 0	0 0 10 20 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT OFF SPL SPF FLA SPF DIM MNR	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 10 20 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL SPF DIM SPF DIM MNR MXR	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 10 20 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F FLA SPF DIM MNR MXR PDR	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLR MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 10 20 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F FLA SPF DIM MNR MXR PDR MX2	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 10 20 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F FLA SPF DIM MNR MXR PDR MX2 DEN	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMNING ENABLE MINIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 10 20 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HIN TYP F/C MDT OFF SPL SPF DIM MXR PDR MXR PDR SEQ	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRW 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED PLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16.	7 6 10 20 11 2 20 8 1 1 1 1 0 0 0	0 0 10 20 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0 0
MNEM NUM YR MON DOM HRIN TYP F/C MDT OFF SPL SPF DIM MXR PDR MXR PDR SEQ CSV	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMNING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE	7 6 10 20 12 20 8 1 1 1 1 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0 0
MNEM NUM YR MON DOM HIN TYP F/C MDT SPL SPF DIM MXR PDR SEQ CSV RRD	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE REST IN RED	7 6 10 20 112 20 8 1 1 1 1 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0 0
MNEM NUM YR MON HR HIN TYP F/C MDT DAL OFF SPL S/F A SPF MNR MXR PDR MXR	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE REST IN RED PHASE OMIT	7 6 10 20 112 20 8 1 1 1 1 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0 0
MNEM NUM YR MON DOM HIN TYP F/C MDT SPL SPF DIM MXR PDR SEQ CSV RRD	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12 S HUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRH 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE REST IN RED	7 6 10 20 112 20 8 1 1 1 1 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 10 20 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0 0

)TOD, PAGE 1, PHASE 0 - PLANS 13 THROUGH 18	h.vv 4.5		2512 45	D	D1.111.47	22.40
MNE		PLAN 13	PLAN 14	PLAN 15	PLAN 16	PLAN 17	PLAN 18
NUK	NUMBER OF THIS PLAN	13	14	0	0	0	0
YR	YEAR THIS PLAN CAN FIRST BE EFFECTIVE	6	б	0	0	0	0
MON	MONTH THIS PLAN FIRST BE EFFECTIVE	10	10	Q.	0	0	0
MOG		20	20	0	0	0	0
HR	HOUR OF DAY PLAN FIRST EFFECTIVE	18	17	0	0	0	0
MIN	MINUTE THIS PLAN FIRST EFFECTIVE	30	50	0	0	0	0
TYP	TYPE OF PLAN - MANUAL PAGE 4-2	8	8	0	0	0	0
F/C	FREE/COORDINATED - 1=COORDINATED	0	1	0	0	0	0
TCK	1=CNA1 2=CNA2 3=WRM 4=DSA 5678 SEE MANUAL		4 + 5 1 1 + 5 +				1 * 1 * 1 * 1 * 1
DAL	DIAL	0	1	0	0	0	0
OFF	OFFSET	0	2	0	0	0	0
SPL	SPLIT	0	2	0	0	0	0
S/P	SEMI/FULLY ACTUATED - 1=FULLY ACTUATED	0	0	0	0	0	0
FLA	PROGRAMMED FLASH - 1=8NABLED	0	0	0	0	0	0
SPF	SPECIAL FUNCTION		******				1 + 4 + + + + 1
DIM	DIMMING ENABLE	0	0	0	0	0	0
MNR	MINIMUM RECALL PHASES					11111111	*****
MXR	MAXIMUM RECALL PHASES	11+1++1	* * * * * * * * * *	1114441	1 + 1 + 1 + 4 +	11111111	1 + 1 + 1 + 1 +
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MX2	SELECT MAX 2 OPTION			******			
DEN					******	£1 (+ £ + 1 +	63681111
SEQ	PHASE SEQUENCE. MANUAL TABLE 2-16.	0	0	0	0	0	0
CSV							
RRD	REST IN RED		******	******			1 * * * 1 1 * 1
OMT	PHASE ONIT				*******		+++++++
OMP	PEDESTRIAN OMIT	1 4 4 4 1 1 4 4		*******		1+111+++	******
OMR	OMIT RED CLEAR		*14,14,1		* * 1 * 1 1 1 1 1	******	1311111

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	EN # 11 TROSPER Drop Name: I-5 NB OFFRAMP his report printed: 08:25:59 05-23-2012	D	Orop # 3					1	4
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	CURRENT HOUR OF DAY	14					9	\boxtimes	
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	VERSION DISPLAY ONLY - DO NOT EDIT	IV Ω							
747	ARKSIAM NISAPAI AMPI - DA KAI PATI	0							
12139	90 MODE, PAGE 0, PHASE 0 - OPTION SELECTION			, , , , , , , , , , , , , , , , , , , ,	******				
MNEM	V House Comments of the commen	DATA							
	PHIDESTRIANSE ENABLE CONCURRENT PED MOVE	6.4.2.							
FWK	FLASHING WALK		•						
ARW	ACTUATED REST IN WALK	******	•						
	WALK CLEARANCE PROTECT	******	•						
DEN	DENSITY - ENABLES DENSITY OPERATION	******	•						
LCP	LAST CAR PASSAGE	* * 1 * * 1 * *	•						
VN1	VEHICLE TO NON-ACTUATED NO. 1	6 2 .	3						
PN1	PEDESTRIAN TO NON-ACTUATED NO. 1	6 2 .							
	VEHICLE TO NON-ACTUATED NO. 2								
	PEDESTRIAN TO NON-ACTUATED NO. 2								
	CANADA FAST FLASH GREEN								
MNU	ENABLE MENU DISPLAY AND TIMING	0							
LAB	SELECT LEFT TURN AMBER BLANK	******							
ABU	SELECT ANTI-BACKUP PHASES								
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	90 MODE, PAGE 0, PHASES 1 TO 8 - PHASE TIMING		•	#		_			
MNEM	LITTING ANNIO TUMBUILE	PH 1	PH 2	PH 3	PH 4	PH 5	PH 6	PH 7	PH 8
MIN	MINIMUM GREEN INTERVAL WALK INTERVAL	0	10	0	6	0	10	0	0
MCI MPY	WALK INTERVAL	0	Ü	Ü	U A	0	5	0	0
D G C	PRUBSTRIAN CLEARDANCE DAGGIGE WIND (DEGGE CAD)	0 0	. 2 E	0 0	V 2 N	0 0	4 2 K	Ú A	0 0
NY1	MINIMUM GREEN INTERVAL WALK INTERVAL PEDESTRIAN CLEARANCE PASSAGE TIME (PRESET GAP) MAXIMUM GREEN NO. 1 MAXIMUM GREEN NO. 2 YELLOW CLEARANCE ALL RED CLEARANCE RED REVERT MIN TIME ACTUATIONS BEFORE ADDED INITIAL SECS PER ACTUATION ADDED INITIAL MAXIMUM ADDED INITIAL TIME TIME BEFORE REDUCTION TIME TO REDUCE TO MINIMUM GAP MINIMUM GAP CONDITIONAL MINIMUM	0.U 0	2. J	0.U n	2.U 10	0.0	2.0 20	0.U	0.0 0
MY?	NYALMIN GDDLA NO . 1	0	U 10	٨	U T.2	υ Λ	V Jv	n	0
YRJ	VELLOW CLEADANCE	3 D	1 A	3.0	3 6	3.0	3 6	3.0	3.0
RED	ALL BED CLEARANCE	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0
RRT	BED REVERT MIN TIME	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
ABA	ACTUATIONS BEFORE ADDED INITIAL	0	0	0	0	0	Õ	0	0
S/A	SECS PER ACTUATION ADDED INITIAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MXI	MAXIMUM ADDED INITIAL TIME	0	0	0	0	0	0	0	0
TBR	TIME BEFORE REDUCTION	0	0	0	0	0	Ō	0	0
TTR	TIME TO REDUCE TO MINIMUM GAP	20	20	20	20	20	20	20	20
MNG	MINIMUM GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CMN	CONDITIONAL MINIMUM	0	0	0	0	0	0	0	0
=====			2222222	.========	22222222				

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(4)390 MODE, PAGE O, PHASE 9 - ADDITIONAL PARAMETERS
MNEM
PUF POWER UP FLASH
SAR START-UP ALL RED TIME
                                  5
SUR START UP RED
SUY START UP YELLOW
SUG START UP GREEN
                                 . . 6 . . . 2 .
MSF MAIN STREETS FOR MUTCO FLASH
FMN MINIMUM MUTCD FLASH TIME
                                 15
DLE DUAL ENTRY
                                 . . 6 . . . 2 .
SGO SIMULTANEOUS GAP OUT
                                 . . 6 . , . 2 ,
MNR MINIMUM RECALLS
MNS FLAGS FOR SOFT MNR
MXR MAXIMUM RECALLS
PDR PEDESTRIAN RECALLS
LKD LOCKING VEHICLE DETECTORS
LCD LCD DISPLAY TEST
BLT DISPLAY BACKLIGHT ENABLE
                                 1
(5)390 MODE, PAGE O, PHASES A TO D - OVERLAPS (IF FOE=0 THEN NEMA)
MNRM
                                  OVERLAP A OVERLAP B OVERLAP C OVERLAP D
STD STANDARD OVERLAPS
                                  ******** ******* ******* ******
PRO PROTECTED OVERLAPS
                                         . . . . . . . . .
                                                  . . . . . . . .
PER PERMISSIVE OVERLAPS
                                         0
                                  0
AXG AUXILIARY GREEN
                                                 0
                                                           ſ
                                         3.0
0.0
                                 3.0
0.0
AXY AUXILIARY YELLOW
                                                 3.0
AXR AUXILIARY RED
                                                 0.0
                                                          0.0
FPP FOLLOW PARENT PHASES ......
(6)390 MODE, PAGE O, PHASE E - MISC, FUNCTION ENABLE
MNEM
FOR FRIPNLOL 2=RT T 3=FST FLS 1=STD OL
SFE ENABLE PED CLEARS AS SPEC FUNCT OUTPUT
STE STE - ENB INTERVAL RESET AFTER STOP TIME
SQE SEQ ENABLE - 1=ENAB EXT ROTATION INPUTS
CSE CONDITIONAL SERVICE ENABLE
NOE NEGATIVE OVERLAP ENABLE
DME DIMMING BNABLE
                                  0
PFE PREEMPT FLASH ENABLE
POM PREEMPT OUTPUT MODE
TOD TIME OF DAY ENABLE 1=ON 0=OFF
                                 1
CRD COORDINATION ENABLE 1=ON 0=OFF
DIA DIAG ENAB 4=BEPROM 3=CPU 2=RAN 1=PROM
SCY SECURITY CODE ACCESS - DO NOT RDIT
CFG CONTROLLER CONFIGURATION
FLE DISABLE VOLTAGE MONITOR IN MUTCO FLASH
TBS START TER AFTER INITIAL INTERVALS
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(7)390 MODE, PAGE O, PHASE F - MORE DATA
MNEN
                                      DATA
PNT PRINTED REPORT ENABLE SELECT START PAGE
SQK FRONT PANEL SEQ SEL - PAGE 5-7 IN MANUAL
SQC PHASE SRQ SELECTED BY EXTERNAL INPUT
SQI EFFECTIVE PHASE SEQUENCE - DO NOT EDIT
DRD DIM REDS
DYL DIM YELLOWS
DGN DIM GREENS
DWK DIM WALKS
DDW DIM DON'T WALK
DOR DIM OVERLAP REDS
DOY DIM OVERLAP YELLOWS
DOG DIM OVERLAP GREENS
CLK TEST FUNCTION - DO NOT EDIT
SAV BNABLE TOD EDIT SAVE
                                     . . . . . . . . 1
ACT ACTIVE TOD PLAN 0=TOD OFF OR NO PLAN
AUD ENABLE AUDIBLE KEY
                                      1
(8)390 MODE, PAGE 1, PHASE 0 - RR PREEMPT TIMING
                                      DATA
TPC PEDESTRIAN CLEARANCE
                                      3
TY1 YELLOW 1
                                      0.6
TR1 ALL RED 1
                                     1.0
TM1 MINIMUM GREEN 1
TG1 GAP 1
                                     0.0
TY2 YELLOW 2
                                     3.0
                                     1.0
TR2 ALL RED 2
TM2 MINIMUM GREEN 2
                                     n
TG2 GAP 2
                                     0.0
TY3 YELLOW 3
                                     3.0
TR3 ALL RED 3
                                     0.0
TPM PHASE MINIMUM
                                     3
TPG PHASE GAP
                                     3.0
TY4 YELLOW 4
                                     3.0
TR4 ALL RED 4
                                     1.0
(9)390 MODE. PAGE 1, PHASE 1 - RR PREEMPT SEQUENCE SELECT
CGR 1ST TRACK CLEAR GREENS
                                      . . . . . . . .
COG 1ST TRACK CLEAR OVERLAPS (ABCD) 1=A, ETC
TC2 2ND TRACK CLEAR GREENS
T20 2ND TRACK CLEAR OVERLAPS (ABCD) 1=A, ETC.
TGR TRACK PREEMPT GREENS
TOG TRACK PREEMPT OVERLAPS (ABCD) 1=A, ETC.
                                     . . 6 . . . 2 .
TRG RETURN PHASE GREENS
PRM RR PREEMPT RETURN NODE TO COORDINATION
                                     ......
PRR PREEMPT RED REVERT TIME
                                     2.0
PPE PED CALLS AFTER PREEMPT
PVE VEHICLE CALLS AFTER PREEMPT
TVO VEHICLE OMITTED IN MINI CYCLE(ABCD)1=A.ETC
TPO PED OMITS FOR MINI CYCLE PHASES
TOO OVERLAP OMITTED IN MINI CYCLE(ABCD)1=A.ETC ......
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(10)390 MODE, PAGE 1. PHASES 2 TO 5 - EMERGENCY VEHICLE PREEMPT
                                      EMER, VEH. 1 EMER. VEH. 2 EMER, VEH. 3 EMER, VEH. 4
MNEM
EDE DELAY
                                      0
                                               0
                                                                  0
EPC PED CLEAR
                                      б
                                               6
                                                         6
                                                                  ń
                                                                3.0
EY1 YELLOW 1
                                      3.0
                                              3.0
                                                       3.0
                                                      1.0
                                              1.0
                                                                1.0
ER1 ALL RED 1
                                     1.0
                                      3
                                               3
                                                        3
                                                                  3
EMN MINIMUM PREEMPT DWELL GREEN
                                                               3.0
                                             3.0
EPG GAP TIME
                                     3.0
                                                      3.0
                                                               3.0
1.0
BY2 YELLOW 2
                                      3.0
                                              3.0
                                                       3.0
                                             1.0 1.0
                                     1.0
ER2 ALL RED 2
                                      .....2. ....4... ...6..... .......
PRG PREEMPT GREENS
OLG PREEMPT DWELL OVERLAP GREEN(ABCD) A=1, ETC ...... ......
                                                        . . 6 . . . 2 .
ERG RETURN GREENS
                                      . . 6 . . . 2 .
                                               . . 6 . . . 2 .
PRM PREEMPT RETURN MODE TO COORDINATION
                                      1414(111 14111111 11111111 11111111
LOK PREEMPT CALL LOCKING
                                      255 255 255
                                                                 255
EMX PREEMPT MAXIMUM GREEN IN LOW PRIORITY
(11)CRD, PAGE O, PHASE O - MANUAL SELECTIONS
MNRM
                                     DATA
F/C FREE/COORDINATED - 1=COORDINATED
S/F SEMI/FULLY ACTUATED - 1=FULLY ACTUATED
DRQ DOWNLOAD REQUEST ENABLE
SYC SYNC TOLERANCE IN SECONDS
                                      2
M/L MASTER/LOC CYCLE DISPLAY-1=LOCAL CYCLE
DAL DIAL SELECT
OFF OFFSET SELECT
SPL SPLIT SELECT
L/R LOCAL/REMOTE SWITCH - 0=LOCAL 1=REMOTE
TDP TIME OF DAY PLAN MANUAL SELECTION
SMP DETECTOR SAMPLING PERIOD IN MINUTES
                                     15
DVV DIVIDER FOR DETECTOR REPORT VOLUMES
CME ENABLE MAX DURING CRD PHASES
DPO DISABLE PED ONIT IN CRD PHASES
SCP ENABLE SECONDARY COORDINATION PHASES
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(12)CRD, PAGES 1 TO 6, PHASE 0 - DIAL PARAMETERS MNEM CYC CYCLE LENGTH OF1 OFFSET 1 OF2 OFFSET 2 OF3 OFFSET 3 OF4 OFFSET 4 OF5 OFFSET 5 SHK MAXIMUM SHRINKAGE PER CYCLE EXP MAXIMUM EXPANSION PER CYCLE YLD YIELD PERIOD SEQ PHASE SEQUENCE - PAGE 2-16 OF MANUAL MSG MAIN STREET GREEN COORD PHASES(1 PER RING)	6	2			2		DIAI 135 127 0 0 0 0 10 10 0 0			DIAI 135 7 0 0 0 0 10 10 0 0			DIA. 120 14 0 0 0 10 10 06		,	DIA 120 14 0 0 0 10 0 0	2		
(13)CRD, PAGES 1 TO 6, PHASES 1 TO 3 - SPLIT DIVI MNEM SD1 PHASE 1 SPLIT DIVISION SD2 PHASE 2 SPLIT DIVISION SD3 PHASE 3 SPLIT DIVISION SD4 PHASE 4 SPLIT DIVISION SD5 PHASE 5 SPLIT DIVISION	1>1 0 80 0 40 0	S 1>2 0 88 0 32 0 88 0	1>3 0 88 0 32	2>1 0 70 0 50 0 70	2>2 0 88 0 32 0 88	0 88 0 32 0 88	0 98 0 37 0 98	0 98 0 37 0 98	0 98 0 37 0 98	0 85 0 50 0 85	0 85 0 50	0 85 0 50 0 85	0 88 0 32 0 88	0 88 0 32 0	0 88 0 32 0	0 88 0 32 0	0 88 0 32 0	0 88 0	
(14)CRD - ACTIVE PARAMETERS MNEM DAL CURRENT DIAL IN EFFECT - DO NOT EDIT OFF CURRENT OFFSET IN EFFECT - DO NOT EDIT SPL CURRENT SPLIT IN EFFECT - DO NOT EDIT SEQ CURRENT SEQUENCE IN EFFECT (15)CRD, PAGE 8, PHASE 0 - SYSTEM PARAMETERS	DATA O O O O O													:222;					========
MNEM SYE SYSTEM MODE ENABLE SDT ENABLE AUXILIARY DETS AS SYSTEM DETECTORS ADD DROP ADDRESS FOR SYSTEM IPL INTERSECTION PLAN NUMBER - DISPLAY ONLY IPM INTERSECTION PLAN MODE 1=ON 2=WNV RECEIVE DFT DETECTOR FAILURE TIME FDT FAILED DETECTORS DISPLAY ONLY NO EDIT DFM ENABLE LOCAL DET FAIL MONITORING 5MV FIVE MINUTE VOLUME DIV 10 DISPLAY ONLY SHE HOUR OF SYNCHRONIZATION SMN MINUTE OF SYNCHRONIZATION EHR HOUR TO SET CLOCK TO ON EXTERNAL INPUT EMN MINUTE TO SET CLOCK TO ON EXTERNAL INPUT	3 9 1 255																		

(16)	TOD, PAGE 1, PHASE 0 - PLANS 1 THROUGH 6						
MREM	S	PLAN 1	PLAN 2	PLAN 3	PLAN 4	PLAN 5	PLAN 6
MUM	NUMBER OF THIS PLAN	1	2	3	4	5	0
YR	YEAR THIS PLAN CAN FIRST BE EFFECTIVE	6	7	7	7	6	Ü
MON	MONTH THIS PLAN FIRST BE EFFECTIVE	10	9	9	9	10	U
DOM	DAY OF MONTH PLAN FIRST EFFECTIVE	20	11	11	11	20	V
HE	HOUR OF DAY PLAN FIRST RFFECTIVE	/ 1 E	7 35	0	a 15	11 30	0
MIN	MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2	15	33 8	Q Q	g g	8	r N
TYP F/C	FREE/COORDINATED - 1=COORDINATED	บ 1	1	1	ſ	1	n
r o T	1=CNA1 2=CNA2 3=WRM 4=DSA 5678 SEE MANUAL			*			
DAL	DIAL	2	4	2	0	1	0
OFF	OFFSET	1	1	1	0	1	0
SPL	SPLIT	1	1	1	0	1	0
S/F	SEMI/FULLY ACTUATED - 1=FULLY ACTUATED	0	0	0	0	0	0
FLA	PROGRAMMED FLASH - 1=ENABLED	0	0	0	0	0	0
SPF	SPECIAL FUNCTION		1 + + 1 + 1 + +	1 * 1 * 1 * 1 *	1111111		1+1+1+1+
DIM	DIMMING ENABLE	0	0	0	0	0	0
MNR	MINIMUM RECALL PHASES		,,,,,,,		*******		******
MXR	MAXIMUM RECALL PHASES	*******	*******		* * * ! ! ! * * *	*******	1+1+4+4+
PDR	PEDESTRIAN RECALL SELECT MAX 2 OPTION		*******		*******		6 4 + 1 1 + 5 1
MX2 Den	DENSITY - USE VOL DENSITY CALC			14(14))			*******
SEQ	PHASE SEQUENCE. MANUAL TABLE 2-16.	0	0	0	0	0	0
CSV	CONDITIONAL SERVICE					*****	*1****
RRD	REST IN RED		1+1++1+1		14611446	*******	19141411
ONT	PHASE OMIT		1661111		11444414	******	*****
OMP	PEDESTRIAN OMIT						*******
OMR	OMIT RED CLEAR	******			*****	,,,,,,,,	*******
10 44 14							
1171	#AD DAGE 4 DUAGE A DEAM 7 MUDAUGU 17	# # # # # # # # # # # # # # # # # # #	***************************************				
	TOD, PAGE 1, PHASE 0 - PLANS 7 THROUGH 12	Pr.an 7	PLAN 8	PT.AN 9	PI.AN 10	PT.AN 11	PLAN 12
MNEM	S	PLAN 7	PLAN 8	PLAN 9	PLAN 10	PLAN 11 11	PLAN 12 12
MNEM	S NOMBER OF THIS PLAN	PLAN 7 7 6		PLAN 9 9 6		PLAN 11 11 6	
MNEM NUM	S			9		11	
MNEM Num Yr	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE	7 6		9 6 10 20		11 6 10 20	12 7 1 9
MNEM NUM YR MON	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE NONTH THIS PLAN FIRST BE EFFECTIVE	7 6 10		9 6 10 20 13		11 6 10 20 15	12 7 1 9 16
MNEM NUM YR MON DOM	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE	7 6 10 20		9 6 10 20 13 15		11 6 10 20	12 7 1 9
MNEM NUM YR MON DOM HR MIN TYP	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE NONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2	7 6 10 20 12		9 6 10 20 13		11 6 10 20 15	12 7 1 9 16
MNEM NUM YR MON DOM HR MIN TYP F/C	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED	7 6 10 20 12		9 6 10 20 13 15 8	0 0 0 0 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C NDT	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL	7 6 10 20 12		9 6 10 20 13 15		11 6 10 20 15	12 7 1 9 16
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL	S NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL	7 6 10 20 12 20 8	0 0 0 0 0 0 0	9 6 10 20 13 15 8	0 0 0 0 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF	NUMBER OF THIS PLAE YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET	7 6 10 20 12 20 8	0 0 0 0 0 0 0	9 6 10 20 13 15 8	0 0 0 0 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE NONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT	7 6 10 20 12 20 8	0 0 0 0 0 0 0	9 6 10 20 13 15 8	0 0 0 0 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED	7 6 10 20 12 20 8	0 0 0 0 0 0 0	9 6 10 20 13 15 8	0 0 0 0 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE NONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT	7 6 10 20 12 20 8	0 0 0 0 0 0 0	9 6 10 20 13 15 8	0 0 0 0 0 0 0	11 6 10 20 15 10 8	12 7 1 9 16 15 8
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F FLA	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0	0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL SPF	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SRE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DINMING ENABLE MINIMUM RECALL PHASES	7 6 10 20 12 20 8 1	0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0	0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL SPF DIM MNR MXR	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0	0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 1.6 1.5 8 1 3 1 1 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL S/F FLA SPF DIM MNR PDR	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE YEAR THIS PLAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BEFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTEIAN RECALL	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL OFF SPL SPF DIM MNR MXR PDR MX2	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DINMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION	7 6 10 20 12 20 8 1 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL SPF FLA SPF DIM MNR MXR PDR MX2 DEN	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SRE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR MIN TYP F/C MDT DAL SPF FLA SPF DIM MXR PDR MXR PDR MX2 DEN SEQ	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE HINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16.	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 1.6 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR YP F/C NDT DAL OFF SPL SPF DIM MXR PDR MXR PDR CSV	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE HINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SRE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DINMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE	7 6 10 20 112 20 8 1 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR YP F/C MDT DAL OFF SPL SPF DIM MXR PDR SEQ CSV RRD	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SRE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE REST IN RED	7 6 10 20 12 20 8 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0
MNEM NUM YR MON DOM HR YP F/C NDT DAL OFF SPL SPF DIM MXR PDR MXR PDR CSV	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE HINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SRE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DINMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTRIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE	7 6 10 20 112 20 8 1 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 2 0 0 0 0	12 7 1 9 16 15 8 1 3 1 1 0 0 0 0
MNEM NUM YR MON DOM HR TYP F/C MDT OFF SPL SPF DIM MXR PDR MXR PDR CSV RRD OMT	NUMBER OF THIS PLAN YEAR THIS PLAN CAN FIRST BE EFFECTIVE MONTH THIS PLAN FIRST BE EFFECTIVE DAY OF MONTH PLAN FIRST EFFECTIVE HOUR OF DAY PLAN FIRST EFFECTIVE MINUTE THIS PLAN FIRST EFFECTIVE TYPE OF PLAN - MANUAL PAGE 4-2 FREE/COORDINATED - 1=COORDINATED 1=CNA1 2=CNA2 3=WRN 4=DSA 5678 SEE MANUAL DIAL OFFSET SPLIT SEMI/FULLY ACTUATED - 1=FULLY ACTUATED PROGRAMMED FLASH - 1=ENABLED SPECIAL FUNCTION DIMMING ENABLE MINIMUM RECALL PHASES MAXIMUM RECALL PHASES PEDESTEIAN RECALL SELECT MAX 2 OPTION DENSITY - USE VOL DENSITY CALC PHASE SEQUENCE. MANUAL TABLE 2-16. CONDITIONAL SERVICE REST IN RED PHASE OMIT	7 6 10 20 112 20 8 1 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 10 20 13 15 8 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	11 6 10 20 15 10 8 1 1 2 2 2 0 0 0 0	12 7 1 9 16 15 8 13 1 1 0 00

, ,	TOD, PAGE 1, PHASE 0 - PLANS 13 THROUGH 18						
MNEM	IS .	PLAN 13	PLAN 14	PLAN 15	PLAN 16	PLAN 17	PLAN 18
NON	NUMBER OF THIS PLAN	13	14	0	0	0	0
YR	YEAR THIS PLAN CAN FIRST BE EFFECTIVE	6	6	0	0	0	0
MON	MONTH THIS PLAN FIRST BE EFFECTIVE	10	10	0	0	0	0
DOM	DAY OF MONTH PLAN FIRST EFFECTIVE	20	20	0	0	0	0
HR	HOUR OF DAY PLAN FIRST EFFECTIVE	18	17	0	0	0	0
MIN	MINUTE THIS PLAN FIRST EFFECTIVE	30	50	0	0	0	0
TYP	TYPE OF PLAN - MANUAL PAGE 4-2	8	8	0	0	0	0
F/C	FREE/COORDINATED - 1=COORDINATED	0	1	0	0	0	0
MDT	1=CNA1 2=CNA2 3=WRM 4=DSA 5678 SEE MANUAL			*******		*******	
DAL	DIAL	0	1	0	0	0	0
OFF	OFFSET	0	2	0	0	0	0
\mathtt{SPL}	SPLIT	0	2	0	0	0	0
S/F	SEMI/FULLY ACTUATED - 1=FULLY ACTUATED	0	0	0	0	0	0
FLA	PROGRAMMED FLASH - 1=ENABLED	0	0	0	0	0	0
SPF	SPECIAL FUNCTION					*****	
DIM	DIMMING ENABLE	0	0	0	Đ	0	0
MNR	MINIMUM RECALL PHASES				* * * * * * * * *		
MXR	MAXIMUM RECALL PHASES	1 * 1 * * 1 * *	1111111		1 * 1 7 * * * 1		******
PDR	PEDESTRIAN RECALL				, , , , , , , ,		1+(+)1+(
MX2	SELECT MAX 2 OPTION	1			* * * * * * * * * * * * * * * * * * * *		+1+1+++
DEN	DENSITY - USE VOL DENSITY CALC		* * * ! * * * *		11611661	11111111	******
seg	PHASE SEQUENCE. MANUAL TABLE 2-16.	0	0	0	0	0	0
CSV	CONDITIONAL SERVICE						* * * * * * * * *
RRD	REST IN RED	*****				******	1 5 4 5 5 5 5 5
OMT	PHASE ONIT						(+())))
OMP	PEDESTRIAN OMIT						+1+1>++
OMR	OMIT RED CLEAR						111111
****	的 医骨骨骨 医乳腺 医乳腺 化二甲甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲					50 mm sp. am am am sp. sp. am am am am am am sp. am sp. am am am sp. sp. sp. am am am am am am	

APPENDIX H
Capacity
Calculations

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations Volume (veh/h) Sign Control Grade	143	4 1 Stop 0%	13	5	♣ 0 Stop 0%	11	ኘ 7	391 Free 0%	4	6	341 Free 0%	7 275
Peak Hour Factor Hourly flow rate (vph) Pedestrians	0.89 161	0.89	0.89 15	0.89 6	0.89	0.89 12	0.89	0.89 439	0.89 4	0.89 7	0.89 383	0.89 309
Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh)												
Median type Median storage veh) Upstream signal (ft)								None			None 231	
pX, platoon unblocked	0.87	0.87	0.87	0.87	0.87		0.87					
vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol	864	856	383	869	854	442	383			444		
vCu, unblocked vol	769	760	216	775	757	442	216			444		
tC, single (s) tC, 2 stage (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free % cM capacity (veh/h)	41 271	100 290	98 721	98 267	100 291	98 620	99 1188			99 1127		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	176	18	8	444	390	309						
Volume Left	161	6	8	0	7	0						
Volume Right cSH	15 286	12 439	0 1188	4 1700	0 1127	309 1700						
Volume to Capacity	0.62	0.04	0.01	0.26	0.01	0.18						
Queue Length 95th (ft)	95	3	0.01	0.20	0.01	0.10						
Control Delay (s)	36.0	13.5	8.1	0.0	0.2	0.0						
Lane LOS	Е	В	Α		Α							
Approach Delay (s) Approach LOS	36.0 E	13.5 B	0.1		0.1							
Intersection Summary												
Average Delay Intersection Capacity Utilizat Analysis Period (min)	ion		5.0 51.2% 15	IC	CU Level o	of Service			А			

	•	•	†	/	>	↓	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		↑ ↑₽			र्स	
Volume (veh/h)	0	1	539	6	0	622	
Sign Control	Stop		Free			Free	
Grade	0%		0%	0.00		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	0	1	599	7	0	691	
Pedestrians Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)						110	
pX, platoon unblocked	0.81						
vC, conflicting volume	1293	203			606		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	1244	203			606		
tC, single (s)	6.8	6.9			4.1		
tC, 2 stage (s)	2.5	2.2			2.2		
tF(s)	3.5	3.3			2.2		
p0 queue free %	100 137	100 810			100 982		
cM capacity (veh/h)							
Direction, Lane #	WB 1	NB 1	NB 2	NB 3	SB 1		
Volume Total	1	240	240	126	691		
Volume Left	0	0	0	0	0		
Volume Right cSH	1 810	0 1700	0 1700	7 1700	0 982		
Volume to Capacity	0.00	0.14	0.14	0.07	0.00		
Queue Length 95th (ft)	0.00	0.14	0.14	0.07	0.00		
Control Delay (s)	9.4	0.0	0.0	0.0	0.0		
Lane LOS	Α	0.0	0.0	5.0	5.0		
Approach Delay (s)	9.4	0.0			0.0		
Approach LOS	Α						
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliza	ation		42.7%	IC	U Level	of Service	Α
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ň	^	7	Ť	ተኈ		7	†	7	44	†	7
Volume (vph)	141	653	15	253	306	167	12	115	413	426	354	417
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	12	12	12	12	12	12	13	13	12	13
Total Lost time (s)	4.6	4.6	4.6	4.6	4.6		4.6	4.6	4.6	4.6	4.6	4.6
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		1.00	1.00	1.00	0.97	1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.95		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	1787	3574	1615	1805	3342		1805	1900	1652	3513	1881	1652
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	1787	3574	1615	1805	3342		1805	1900	1652	3513	1881	1652
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	152	702	16	272	329	180	13	124	444	458	381	448
RTOR Reduction (vph)	0	0	4	0	51	0	0	0	50	0	0	335
Lane Group Flow (vph)	152	702	12	272	458	0	13	124	394	458	381	113
Heavy Vehicles (%)	1%	1%	0%	0%	3%	1%	0%	0%	1%	3%	1%	1%
Turn Type	Prot	NA	Perm	Prot	NA		Split	NA	pt+ov	Split	NA	Perm
Protected Phases	1	6		5	2		4	4	4 5	3	3	
Permitted Phases			6									3
Actuated Green, G (s)	13.8	35.8	35.8	21.4	43.4		25.4	25.4	51.4	34.0	34.0	34.0
Effective Green, g (s)	13.8	35.8	35.8	21.4	43.4		25.4	25.4	51.4	34.0	34.0	34.0
Actuated g/C Ratio	0.10	0.27	0.27	0.16	0.32		0.19	0.19	0.38	0.25	0.25	0.25
Clearance Time (s)	4.6	4.6	4.6	4.6	4.6		4.6	4.6		4.6	4.6	4.6
Vehicle Extension (s)	3.0	2.7	2.7	3.0	3.0		3.2	3.2		3.5	3.5	3.5
Lane Grp Cap (vph)	183	948	428	286	1074		340	357	629	885	474	416
v/s Ratio Prot	0.09	c0.20		c0.15	0.14		0.01	0.07	c0.24	0.13	c0.20	
v/s Ratio Perm			0.01									0.07
v/c Ratio	0.83	0.74	0.03	0.95	0.43		0.04	0.35	0.63	0.52	0.80	0.27
Uniform Delay, d1	59.5	45.4	36.7	56.3	36.0		44.8	47.6	34.0	43.4	47.4	40.6
Progression Factor	1.00	1.00	1.00	0.85	0.95		1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	26.1	5.2	0.1	37.7	1.1		0.0	0.6	2.0	0.6	9.8	0.4
Delay (s)	85.6	50.5	36.8	85.5	35.2		44.9	48.2	36.0	44.0	57.2	41.0
Level of Service	F	D	D	F	D		D	D	D	D	Е	D
Approach Delay (s)		56.4			52.7			38.8			46.9	
Approach LOS		Ε			D			D			D	
Intersection Summary												
HCM Average Control Delay			49.2	H	CM Level	of Service)		D			
HCM Volume to Capacity ratio			0.78									
Actuated Cycle Length (s)			135.0		um of lost	` '			18.4			
Intersection Capacity Utilization	1		67.3%	IC	U Level o	of Service			С			
Analysis Period (min)			15									
c Critical Lane Group												

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Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	↑ ↑			ተተቡ		7		
Volume (veh/h)	1482	10	1	726	0 Stop	1		
Sign Control Grade	Free 0%			Free 0%	Stop 0%			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92		
Hourly flow rate (vph)	1611	11	1	789	0.72	1		
Pedestrians					-			
Lane Width (ft)								
Walking Speed (ft/s)								
Percent Blockage								
Right turn flare (veh)								
Median type	None			None				
Median storage veh) Upstream signal (ft)	79			816				
pX, platoon unblocked	19		0.82	010	0.82	0.82		
vC, conflicting volume			1622		1882	811		
vC1, stage 1 conf vol			.022		.002	0		
vC2, stage 2 conf vol								
vCu, unblocked vol			1320		1637	332		
tC, single (s)			4.1		6.8	6.9		
tC, 2 stage (s)			0.0		0.5	0.0		
tF (s)			2.2		3.5	3.3		
p0 queue free % cM capacity (veh/h)			100 435		100 76	100 549		
	ED 4	ED 0		WD 0				
Direction, Lane # Volume Total	EB 1 1074	EB 2	WB 1	WB 2	WB 3	NB 1		
Volume Fotal Volume Left	0	548 0	159 1	316 0	316 0	1 0		
Volume Right	0	11	0	0	0	1		
cSH	1700	1700	435	1700	1700	549		
Volume to Capacity	0.63	0.32	0.00	0.19	0.19	0.00		
Queue Length 95th (ft)	0	0	0	0	0	0		
Control Delay (s)	0.0	0.0	0.1	0.0	0.0	11.6		
Lane LOS			Α			В		
Approach Delay (s)	0.0		0.0			11.6		
Approach LOS						В		
Intersection Summary								
Average Delay			0.0				Δ.	
Intersection Capacity Utiliz	ation		51.3%	IC	CU Level o	of Service	А	
Analysis Period (min)			15					

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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	↑ ↑			ተተተ		7	
Volume (veh/h)	1480	3	1	727	0	17	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	1609	3	1	790	0	18	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)							
Upstream signal (ft)	161			734			
pX, platoon unblocked			0.82		0.82	0.82	
vC, conflicting volume			1612		1876	806	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol			1000		4/04	000	
vCu, unblocked vol			1309		1631	328	
tC, single (s)			4.1		6.8	7.0	
tC, 2 stage (s)			2.2		2.5	2.4	
tF(s)			2.2		3.5	3.4	
p0 queue free %			100 439		100 77	97 539	
cM capacity (veh/h)							
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	NB 1	
Volume Total	1072	539	159	316	316	18	
Volume Left	0	0	1	0	0	0	
Volume Right	1700	3	0	1700	1700	18	
cSH	1700	1700	439	1700	1700	539	
Volume to Capacity	0.63	0.32	0.00	0.19	0.19	0.03	
Queue Length 95th (ft)	0	0	0	0	0	3	
Control Delay (s)	0.0	0.0	0.1	0.0	0.0	11.9	
Lane LOS	0.0		A			B 11.0	
Approach LOS	0.0		0.0			11.9	
Approach LOS						В	
Intersection Summary							
Average Delay			0.1				
Intersection Capacity Utiliza	ation		51.0%	IC	CU Level o	of Service	A
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations Volume (veh/h) Sign Control Grade	143	4 1 Stop 0%	13	5	♣ 0 Stop 0%	11	1	399 Free 0%	4	6	4 348 Free 0%	7 275
Peak Hour Factor Hourly flow rate (vph) Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage	0.89 161	0.89	0.89 15	0.89	0.89	0.89 12	0.89	0.89 448	0.89	0.89 7	0.89 391	0.89 309
Right turn flare (veh) Median type Median storage veh) Upstream signal (ft)								None			None 231	
pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol	0.86 881	0.86 873	0.86 391	0.86 886	0.86 871	451	0.86 391			453	201	
vCu, unblocked vol tC, single (s) tC, 2 stage (s)	782 7.1	773 6.5	214 6.2	788 7.1	771 6.5	451 6.2	214 4.1			453 4.1		
tF (s) p0 queue free % cM capacity (veh/h)	3.5 39 263	4.0 100 283	3.3 98 717	3.5 98 260	4.0 100 284	3.3 98 613	2.2 99 1180			2.2 99 1118		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total Volume Left Volume Right cSH Volume to Capacity Queue Length 95th (ft) Control Delay (s) Lane LOS Approach Delay (s) Approach LOS	176 161 15 278 0.64 100 38.1 E 38.1	18 6 12 430 0.04 3 13.7 B 13.7	8 8 0 1180 0.01 1 8.1 A 0.1	453 0 4 1700 0.27 0 0.0	398 7 0 1118 0.01 0 0.2 A 0.1	309 0 309 1700 0.18 0 0.0						
Intersection Summary Average Delay Intersection Capacity Utiliz Analysis Period (min)	ation		5.2 51.6% 15	IC	CU Level (of Service			А			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		↑ ↑₽			र्स	
Volume (veh/h)	0	1	550	6	0	634	
Sign Control	Stop		Free			Free	
Grade	0%		0%	0.00		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	0	1	611	7	0	704	
Pedestrians							
Lane Width (ft) Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type			None			None	
Median storage veh)			140110			110110	
Upstream signal (ft)						110	
pX, platoon unblocked	0.80						
vC, conflicting volume	1319	207			618		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	1275	207			618		
tC, single (s)	6.8	6.9			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	100	100			100		
cM capacity (veh/h)	130	805			972		
Direction, Lane #	WB 1	NB 1	NB 2	NB 3	SB 1		
Volume Total	1	244	244	129	704		
Volume Left	0	0	0	0	0		
Volume Right cSH	1 805	0 1700	0 1700	7 1700	0 972		
Volume to Capacity	0.00	0.14	0.14	0.08	0.00		
Queue Length 95th (ft)	0.00	0.14	0.14	0.08	0.00		
Control Delay (s)	9.5	0.0	0.0	0.0	0.0		
Lane LOS	7.5 A	0.0	0.0	0.0	0.0		
Approach Delay (s)	9.5	0.0			0.0		
Approach LOS	A						
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliz	ation		43.4%	IC	U Level o	of Service	A
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ĭ	† †	7	ň	↑ ₽		¥	†	7	1,14	†	7
Volume (vph)	144	666	15	258	312	170	12	117	421	435	361	425
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	12	12	12	12	12	12	13	13	12	13
Total Lost time (s)	4.6	4.6	4.6	4.6	4.6		4.6	4.6	4.6	4.6	4.6	4.6
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		1.00	1.00	1.00	0.97	1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.95		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	1787	3574	1615	1805	3342		1805	1900	1652	3513	1881	1652
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	1787	3574	1615	1805	3342		1805	1900	1652	3513	1881	1652
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	155	716	16	277	335	183	13	126	453	468	388	457
RTOR Reduction (vph)	0	0	4	0	51	0	0	0	47	0	0	341
Lane Group Flow (vph)	155	716	12	277	467	0	13	126	406	468	388	116
Heavy Vehicles (%)	1%	1%	0%	0%	3%	1%	0%	0%	1%	3%	1%	1%
Turn Type	Prot	NA	Perm	Prot	NA		Split	NA	pt+ov	Split	NA	Perm
Protected Phases	1	6		5	2		4	4	4 5	3	3	
Permitted Phases			6									3
Actuated Green, G (s)	13.9	35.3	35.3	21.4	42.8		25.6	25.6	51.6	34.3	34.3	34.3
Effective Green, g (s)	13.9	35.3	35.3	21.4	42.8		25.6	25.6	51.6	34.3	34.3	34.3
Actuated g/C Ratio	0.10	0.26	0.26	0.16	0.32		0.19	0.19	0.38	0.25	0.25	0.25
Clearance Time (s)	4.6	4.6	4.6	4.6	4.6		4.6	4.6		4.6	4.6	4.6
Vehicle Extension (s)	3.0	2.7	2.7	3.0	3.0		3.2	3.2		3.5	3.5	3.5
Lane Grp Cap (vph)	184	935	422	286	1060		342	360	631	893	478	420
v/s Ratio Prot	0.09	c0.20		c0.15	0.14		0.01	0.07	c0.25	0.13	c0.21	
v/s Ratio Perm			0.01									0.07
v/c Ratio	0.84	0.77	0.03	0.97	0.44		0.04	0.35	0.64	0.52	0.81	0.28
Uniform Delay, d1	59.5	46.0	37.1	56.5	36.6		44.6	47.5	34.2	43.3	47.3	40.4
Progression Factor	1.00	1.00	1.00	0.86	0.95		1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	27.9	6.0	0.1	41.6	1.2		0.0	0.6	2.3	0.6	10.4	0.4
Delay (s)	87.4	52.0	37.2	89.9	35.8		44.7	48.1	36.5	44.0	57.7	40.8
Level of Service	F	D	D	F	D		D	D	D	D	E	D
Approach Delay (s)		57.9			54.6			39.1			46.9	
Approach LOS		E			D			D			D	
Intersection Summary												
HCM Average Control Delay			50.1	H	CM Level	of Service	9		D			
HCM Volume to Capacity ratio			0.80									
Actuated Cycle Length (s)			135.0		um of lost				18.4			
Intersection Capacity Utilization	1		68.4%	IC	CU Level of	of Service			С			
Analysis Period (min)			15									
c Critical Lane Group												

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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	† 1>			44₽		7	
Volume (veh/h)	1512	10	1	741	0	1	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	1643	11	1	805	0	1	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)	70			017			
Upstream signal (ft)	79		0.00	816	0.00	0.00	
pX, platoon unblocked			0.82 1654		0.82 1920	0.82 827	
vC, conflicting volume vC1, stage 1 conf vol			1034		1920	027	
vC2, stage 2 conf vol							
vCu, unblocked vol			1349		1675	334	
tC, single (s)			4.1		6.8	6.9	
tC, 2 stage (s)					0.0	0.7	
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	100	
cM capacity (veh/h)			421		72	544	
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	NB 1	
Volume Total	1096	559	162	322	322	1	
Volume Left	0	0	1	0	0	0	
Volume Right	0	11	0	0	0	1	
cSH	1700	1700	421	1700	1700	544	
Volume to Capacity	0.64	0.33	0.00	0.19	0.19	0.00	
Queue Length 95th (ft)	0	0	0	0	0	0	
Control Delay (s)	0.0	0.0	0.1	0.0	0.0	11.6	
Lane LOS	0.0		A			В	
Approach Delay (s)	0.0		0.0			11.6	
Approach LOS						В	
Intersection Summary							
Average Delay			0.0		NIII ?		
Intersection Capacity Utiliz	zation		52.1%	IC	CU Level o	of Service	Α
Analysis Period (min)			15				

	→	•	•	•	1	~	
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations Volume (veh/h)	ተኈ 1510	3	1	↑↑↑ 742	0	1 7	
Sign Control Grade	Free 0%	· ·	•	Free 0%	Stop 0%	.,	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	1641	3	1	807	0	18	
Pedestrians							
Lane Width (ft) Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)	Mana			Maraa			
Median type Median storage veh)	None			None			
Upstream signal (ft)	161			734			
pX, platoon unblocked			0.82		0.82	0.82	
vC1, stage 1 confive			1645		1914	822	
vC1, stage 1 conf vol vC2, stage 2 conf vol							
vCu, unblocked vol			1338		1668	330	
tC, single (s)			4.1		6.8	7.0	
tC, 2 stage (s) tF (s)			2.2		3.5	3.4	
p0 queue free %			100		100	97	
cM capacity (veh/h)			426		72	534	
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	NB 1	
Volume Total	1094	550	162	323	323	18	
Volume Left	0	0	1	0	0	0	
Volume Right cSH	0 1700	3 1700	0 426	0 1700	0 1700	18 534	
Volume to Capacity	0.64	0.32	0.00	0.19	0.19	0.03	
Queue Length 95th (ft)	0	0	0	0	0	3	
Control Delay (s)	0.0	0.0	0.1	0.0	0.0	12.0	
Lane LOS			Α			В	
Approach Delay (s)	0.0		0.0			12.0	
Approach LOS						В	
Intersection Summary							
Average Delay Intersection Capacity Utiliz	vation		0.1 51.8%	ıc	'III ovol c	of Service	А
Analysis Period (min)	.auun		15	IC	O LEVEL	JI JEI VICE	Α
Analysis Penou (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations Volume (veh/h) Sign Control Grade	ነ 143	47 Stop 0%	13	5	47 Stop 0%	35	7	389 Free 0%	15	1 27	345 Free 0%	5
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Hourly flow rate (vph) Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh)	161	53	15	10	53	39	8	437	17	30	388	6
Median type Median storage veh)								None			None	
Upstream signal (ft)											329	
pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol	0.91 970	0.91 921	0.91 390	0.91 951	0.91 915	446	0.91 393			454		
vCu, unblocked vol	916	862	278	895	856	446	281			454		
tC, single (s) tC, 2 stage (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	10	80	98	95	80	94	99			97		
cM capacity (veh/h)	178	258	693	192	260	615	1174			1112		
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2	SB 1	SB 2				
Volume Total	161	67	10	92	8	454	30	393				
Volume Left	161	0 1E	10	0	8 0	0 17	30	0				
Volume Right cSH	0 178	15 298	0 192	39 345	1174	17 1700	0 1112	6 1700				
Volume to Capacity	0.90	0.23	0.05	0.27	0.01	0.27	0.03	0.23				
Queue Length 95th (ft)	169	21	4	26	1	0.27	2	0.20				
Control Delay (s)	97.0	20.6	24.8	19.2	8.1	0.0	8.3	0.0				
Lane LOS	F	С	С	С	Α		Α					
Approach Delay (s) Approach LOS	74.4 F		19.8 C		0.1		0.6					
Intersection Summary												
Average Delay Intersection Capacity Utilization Analysis Period (min)	n		15.9 43.7% 15	IC	CU Level o	of Service			А			

	•	•	•	†	ļ	✓			
Movement	EBL	EBR	NBL	NBT	SBT	SBR			
Lane Configurations				†	†	7			
Volume (veh/h)	0	0	0	570	382	270			
Sign Control	Stop			Free	Free				
Grade	0%	0.00	0.00	0%	0%	0.00			
Peak Hour Factor Hourly flow rate (vph)	0.90 0	0.90 0	0.90 0	0.90 633	0.90 424	0.90 300			
Pedestrians	U	U	U	033	424	300			
Lane Width (ft)									
Walking Speed (ft/s)									
Percent Blockage									
Right turn flare (veh)									
Median type				None	None				
Median storage veh)									
Upstream signal (ft)	0.05	0.05	0.05		226				
pX, platoon unblocked	0.85	0.85	0.85						
vC, conflicting volume vC1, stage 1 conf vol	1058	424	424						
vC1, stage 1 conf vol									
vCu, unblocked vol	980	236	236						
tC, single (s)	6.4	6.2	4.1						
tC, 2 stage (s)									
tF (s)	3.5	3.3	2.2						
p0 queue free %	100	100	100						
cM capacity (veh/h)	238	688	1143						
Direction, Lane #	NB 1	SB 1	SB 2						
Volume Total	633	424	300						
Volume Left	0	0	0						
Volume Right cSH	0 1700	0 1700	300 1700						
Volume to Capacity	0.37	0.25	0.18						
Queue Length 95th (ft)	0.57	0.23	0.10						
Control Delay (s)	0.0	0.0	0.0						
Lane LOS	0.0	5.0	0.0						
Approach Delay (s)	0.0	0.0							
Approach LOS									
Intersection Summary									
Average Delay			0.0					_	
Intersection Capacity Utiliz	ation		33.3%	IC	CU Level o	of Service		A	
Analysis Period (min)			15						

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ĭ	^	7	, j	↑ ↑		¥	†	7	44	†	7
Volume (vph)	144	680	15	276	306	170	31	119	419	439	361	425
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	12	12	12	12	12	12	13	13	12	13
Total Lost time (s)	4.6	4.6	4.6	4.6	4.6		4.6	4.6	4.6	4.6	4.6	4.6
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		1.00	1.00	1.00	0.97	1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.95		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	1787	3574	1615	1805	3340		1805	1900	1652	3513	1881	1652
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	1787	3574	1615	1805	3340		1805	1900	1652	3513	1881	1652
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	155	731	16	297	329	183	33	128	451	472	388	457
RTOR Reduction (vph)	0	0	4	0	53	0	0	0	46	0	0	341
Lane Group Flow (vph)	155	731	12	297	459	0	33	128	405	472	388	116
Heavy Vehicles (%)	1%	1%	0%	0%	3%	1%	0%	0%	1%	3%	1%	1%
Turn Type	Prot	NA	Perm	Prot	NA		Split	NA	pt+ov	Split	NA	Perm
Protected Phases	1	6		5	2		4	4	4 5	3	3	
Permitted Phases			6									3
Actuated Green, G (s)	13.9	35.4	35.4	21.4	42.9		25.5	25.5	51.5	34.3	34.3	34.3
Effective Green, g (s)	13.9	35.4	35.4	21.4	42.9		25.5	25.5	51.5	34.3	34.3	34.3
Actuated g/C Ratio	0.10	0.26	0.26	0.16	0.32		0.19	0.19	0.38	0.25	0.25	0.25
Clearance Time (s)	4.6	4.6	4.6	4.6	4.6		4.6	4.6		4.6	4.6	4.6
Vehicle Extension (s)	3.0	2.7	2.7	3.0	3.0		3.2	3.2		3.5	3.5	3.5
Lane Grp Cap (vph)	184	937	423	286	1061		341	359	630	893	478	420
v/s Ratio Prot	0.09	c0.20		c0.16	0.14		0.02	0.07	c0.25	0.13	c0.21	
v/s Ratio Perm			0.01									0.07
v/c Ratio	0.84	0.78	0.03	1.04	0.43		0.10	0.36	0.64	0.53	0.81	0.28
Uniform Delay, d1	59.5	46.2	37.0	56.8	36.4		45.2	47.6	34.2	43.4	47.3	40.4
Progression Factor	1.00	1.00	1.00	0.86	0.94		1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	27.9	6.4	0.1	8.06	1.2		0.1	0.7	2.3	0.6	10.4	0.4
Delay (s)	87.4	52.6	37.1	109.5	35.4		45.4	48.3	36.5	44.0	57.7	40.8
Level of Service	F	D	D	F	D		D	D	D	D	Ε	D
Approach Delay (s)		58.3			62.6			39.5			46.9	
Approach LOS		Е			E			D			D	
Intersection Summary												
HCM Average Control Delay			52.0	Н	CM Level	of Service	9		D			
HCM Volume to Capacity ratio			0.82									
Actuated Cycle Length (s)			135.0		um of lost				18.4			
Intersection Capacity Utilization	1		71.3%	IC	CU Level of	of Service			С			
Analysis Period (min)			15									
c Critical Lane Group												

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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations Volume (veh/h) Sign Control	↑ ↑ 1502 Free	36	0	↑↑↑ 753 Free	0 Stop	7 34	
Grade	0%			0%	0%		
Peak Hour Factor	0.92	0.92 39	0.92	0.92 818	0.92	0.92 37	
Hourly flow rate (vph) Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh)	1633	39	0	818	0	37	
Median type Median storage veh)	None			None			
Upstream signal (ft)	228		0.01	667	0.04	0.04	
pX, platoon unblocked vC, conflicting volume			0.81 1672		0.81 1925	0.81 836	
vC1, stage 1 conf vol vC2, stage 2 conf vol			1072		1925	630	
vCu, unblocked vol			1361		1674	330	
tC, single (s) tC, 2 stage (s)			4.1		6.8	7.0	
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	93	
cM capacity (veh/h)			415		72	537	
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	NB 1	
Volume Total	1088	583	273	273	273	37	
Volume Left	0	0	0	0	0	0	
Volume Right cSH	0 1700	39 1700	0 1700	0 1700	0 1700	37 537	
Volume to Capacity	0.64	0.34	0.16	0.16	0.16	0.07	
Queue Length 95th (ft)	0.04	0.34	0.10	0.10	0.10	6	
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	12.2	
Lane LOS	0.0	0.0	0.0	0.0	0.0	В	
Approach Delay (s)	0.0		0.0			12.2	
Approach LOS						В	
Intersection Summary							
Average Delay Intersection Capacity Utiliza Analysis Period (min)	ation		0.2 52.7% 15	IC	CU Level o	of Service	А

APPENDIX I

Queue

Calculations

SIGNALIZED QUEUING ANALYSIS - 2013 PRE-DEVELOPMENT CONDITIONS - WEEKDAY PM PEAK HOUR									
Intersection	Lane(s)	# Lanes	Lane Factor	Volume*	Cycle (s)	Green (s)	Queue (ft)	Available (ft)**	Queue> Avail?
	EB LT	1	1	144	135.0	13.9	250	100	YES
	EB TH	2	1.05	666	135.0	35.3	475	400	YES
	EB RT	1	1	14	135.0	35.3	25	75	no
	WB LT	1	1	258	135.0	21.4	400	300	YES
Trosper Road / Tyee	WB TH+ TH/RT	2	1.05	465	135.0	42.8	325	500+	no
Drive / I-5 Southbound Ramps	NB LT	1	1	12	135.0	25.6	25	95	no
Southbound Namps	NB TH	1	1	117	135.0	25.6	175	105	YES
	NB RT	1	1	379	135.0	51.6	450	225	YES
	SB LT	2	1.05	435	135.0	34.3	325	400	no
	SB TH	1	1	361	135.0	34.3	500	400	YES
	SB RT	1	1	383	135.0	34.3	525	400	YES

^{*} Volumes include a 10% right turn on red (RTOR) reduction for shared through/right lanes.

BOLD values either exceed available storage or, in thru lanes, extend into the influence area of the prior driveway/intersection.

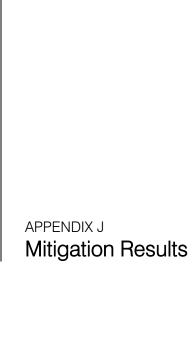
SIGNALIZED QUE	SIGNALIZED QUEUING ANALYSIS - 2013 POST-DEVELOPMENT CONDITIONS - WEEKDAY PM PEAK HOUR									
Intersection	Lane(s)	# Lanes	Lane Factor	Volume*	Cycle (s)	Green (s)	Queue (ft)	Available (ft)**	Queue> Avail?	
	EB LT	1	1	144	135.0	13.9	250	100	YES	
	EB TH	2	1.05	680	135.0	35.4	500	400	YES	
	EB RT	1	1	14	135.0	35.4	25	75	no	
	WB LT	1	1	276	135.0	21.4	425	300	YES	
Trosper Road / Tyee	WB TH+ TH/RT	2	1.05	459	135.0	42.9	300	500+	no	
Drive / I-5 Southbound Ramps	NB LT	1	1	31	135.0	25.5	50	95	no	
Southbound Namps	NB TH	1	1	119	135.0	25.5	175	105	YES	
	NB RT	1	1	419	135.0	51.5	475	225	YES	
	SB LT	2	1.05	439	135.0	34.3	325	400	no	
	SB TH	1	1	361	135.0	34.3	500	400	YES	
	SB RT	1	1	383	135.0	34.3	525	400	YES	

^{*} Volumes include a 10% right turn on red (RTOR) reduction for shared through/right lanes.

BOLD values either exceed available storage or, in thru lanes, extend into the influence area of the prior driveway/intersection.

^{**} Available storage lanes are measured for the length of the full-width lane; transitions (tapers) are not included.

^{**} Available storage lanes are measured for the length of the full-width lane; transitions (tapers) are not included.



Post-Development Scenario - Weekday PM Peak Hour - with 2WSC at Tyee Access

Intersection: 1: Tyee Drive & FM Fuel Access

Movement	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	TR	L	TR	L	TR	L	TR	
Maximum Queue (ft)	346	325	34	145	27	197	40	85	
Average Queue (ft)	124	70	9	59	2	25	12	9	
95th Queue (ft)	298	224	31	126	13	108	36	56	
Link Distance (ft)	577	577	309	309		774		51	
Upstream Blk Time (%)							1	1	
Queuing Penalty (veh)							0	6	
Storage Bay Dist (ft)					50		50		
Storage Blk Time (%)						3	1	1	
Queuing Penalty (veh)						0	3	0	

Intersection: 1: Tyee Drive & FM Fuel Access

Movement	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	TR	L	TR	L	TR	L	TR	
Maximum Queue (ft)	156	81	43	100	100	801	29	58	
Average Queue (ft)	66	33	8	44	18	559	2	3	
95th Queue (ft)	134	62	31	80	80	990	15	32	
Link Distance (ft)	577	577	309	309		774		51	
Upstream Blk Time (%)						33		1	
Queuing Penalty (veh)						0		2	
Storage Bay Dist (ft)					50		50		
Storage Blk Time (%)						89		1	
Queuing Penalty (veh)						6		0	

Intersection: 1: Tyee Drive & FM Fuel Access

Movement	EB	EB	WB	WB	NB	NB	SB
Directions Served	L	TR	L	TR	LT	TR	LTR
Maximum Queue (ft)	127	61	34	105	100	435	76
Average Queue (ft)	52	30	8	42	53	133	5
95th Queue (ft)	100	55	29	79	106	353	37
Link Distance (ft)	583	583	302	302		775	50
Upstream Blk Time (%)							1
Queuing Penalty (veh)							4
Storage Bay Dist (ft)					50		
Storage Blk Time (%)					3	36	
Queuing Penalty (veh)					6	76	

1: Tyee Drive & FM Fuel Access Performance by approach

Approach	EB	WB	NB	SB	All
Total Delay (hr)	3.7	1.1	0.4	0.1	5.3
Total Del/Veh (s)	66.1	40.3	3.2	1.5	17.8
Speed Delay (hr)	3.7	1.1	0.3	0.1	5.2
Speed Del/Veh (s)	66.0	40.1	2.7	1.5	17.6
Total Stops	201	92	38	21	352
Stop/Veh	1.00	0.96	0.09	0.06	0.33
Avg Speed (mph)	4	4	22	16	10
Vehicles Entered	194	92	409	355	1050
Vehicles Exited	198	95	409	356	1058
Hourly Exit Rate	198	95	409	356	1058
Input Volume	203	92	411	382	1087
% of Volume	98	104	100	93	97

Post-Development Scenario - Weekday PM Peak Hour - with 2WSC at Tyee Access

1: Tyee Drive & FM Fuel Access Performance by lane

Lane	EB	EB	WB	WB	NB	NB	SB	SB	All	
Movements Served	L	TR	L	TR	L	TR	L	TR		
Total Delay (hr)	3.1	0.5	0.0	1.0	0.0	0.3	0.1	0.1	5.3	
Speed Delay (hr)	3.1	0.5	0.0	1.0	0.0	0.3	0.1	0.1	5.2	
Total Stops	132	69	10	82	2	36	14	8	352	
Avg Speed (mph)	4	7	7	4	9	22	2	18	10	
Vehicles Entered	0	0	0	0	0	0	0	356	1050	
Vehicles Exited	140	59	10	86	7	402	24	333	1058	
Hourly Exit Rate	140	59	10	86	7	402	24	333	1058	

1: Tyee Drive & FM Fuel Access Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay (hr)	3.2	0.4	0.1	0.0	0.6	0.4	0.0	0.3	0.0	0.1	0.1	0.0
Total Del/Veh (s)	81.7	31.7	18.4	16.5	49.0	35.8	7.9	3.1	2.5	10.4	0.8	1.6
Speed Delay (hr)	3.2	0.4	0.1	0.0	0.6	0.4	0.0	0.3	0.0	0.1	0.1	0.0
Speed Del/Veh (s)	81.5	31.6	18.3	16.4	48.9	35.6	4.3	2.7	2.0	10.4	0.8	1.6
Total Stops	139	49	13	10	44	38	3	34	1	16	5	0
Stop/Veh	0.99	1.04	1.08	1.00	0.94	0.97	0.43	0.09	0.07	0.67	0.02	0.00
Avg Speed (mph)	4	7	9	7	3	4	20	22	21	5	19	11
Vehicles Entered	136	46	12	10	44	38	7	387	15	24	327	4
Vehicles Exited	140	46	12	10	46	39	7	387	15	24	328	4
Hourly Exit Rate	140	46	12	10	46	39	7	387	15	24	328	4
Input Volume	143	47	13	9	47	35	7	389	15	27	350	5
% of Volume	98	98	94	108	98	111	97	99	102	89	94	76

1: Tyee Drive & FM Fuel Access Performance by movement

Movement	All
Total Delay (hr)	5.3
Total Del/Veh (s)	17.8
Speed Delay (hr)	5.2
Speed Del/Veh (s)	17.6
Total Stops	352
Stop/Veh	0.33
Avg Speed (mph)	10
Vehicles Entered	1050
Vehicles Exited	1058
Hourly Exit Rate	1058
Input Volume	1087
% of Volume	97

1: Tyee Drive & FM Fuel Access Performance by approach

Approach	EB	WB	NB	SB	All
Total Delay (hr)	1.3	0.4	23.8	0.1	25.5
Total Del/Veh (s)	21.8	17.7	201.0	0.6	86.6
Speed Delay (hr)	1.2	0.4	18.8	0.1	20.5
Speed Del/Veh (s)	21.7	17.6	159.1	0.6	69.7
Total Stops	204	87	642	6	939
Stop/Veh	0.99	1.00	1.51	0.02	0.89
Avg Speed (mph)	8	7	3	20	4
Vehicles Entered	204	86	411	341	1042
Vehicles Exited	206	88	411	341	1046
Hourly Exit Rate	206	88	411	341	1046
Input Volume	203	92	411	382	1087
% of Volume	102	96	100	89	96

1: Tyee Drive & FM Fuel Access Performance by lane

Lane	EB	EB	WB	WB	NB	NB	SB	SB	All	
Movements Served	L	TR	L	TR	L	TR	L	TR		
Total Delay (hr)	1.1	0.2	0.0	0.4	0.0	18.8	0.0	0.0	25.5	
Speed Delay (hr)	1.1	0.2	0.0	0.4	0.0	18.8	0.0	0.0	20.5	
Total Stops	139	65	10	78	7	635	3	3	939	
Avg Speed (mph)	7	11	9	6	5	3	11	21	4	
Vehicles Entered	0	0	0	0	0	0	0	341	1042	
Vehicles Exited	141	65	10	79	7	404	25	316	1046	
Hourly Exit Rate	141	65	10	79	7	404	25	316	1046	

1: Tyee Drive & FM Fuel Access Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay (hr)	1.1	0.2	0.0	0.0	0.2	0.2	0.4	22.5	0.9	0.0	0.0	0.0
Total Del/Veh (s)	27.1	11.7	6.4	9.6	17.1	19.4	193.4	201.4	206.7	1.0	0.5	-0.1
Speed Delay (hr)	1.1	0.2	0.0	0.0	0.2	0.2	0.3	17.8	0.7	0.0	0.0	0.0
Speed Del/Veh (s)	26.9	11.5	6.2	9.6	17.0	19.3	160.4	159.3	161.2	1.0	0.5	-0.1
Total Stops	139	48	17	10	45	32	18	599	25	3	3	0
Stop/Veh	0.98	1.00	1.00	1.00	0.98	0.94	2.57	1.49	1.56	0.12	0.01	0.00
Avg Speed (mph)	7	10	12	9	7	6	3	3	3	15	21	15
Vehicles Entered	140	47	17	9	45	32	7	388	16	25	312	4
Vehicles Exited	141	48	17	10	45	33	7	388	16	25	312	4
Hourly Exit Rate	141	48	17	10	45	33	7	388	16	25	312	4
Input Volume	143	47	13	9	47	35	7	389	15	27	350	5
% of Volume	99	102	133	108	96	94	97	100	108	93	89	76

1: Tyee Drive & FM Fuel Access Performance by movement

Movement	All
Total Delay (hr)	25.5
Total Del/Veh (s)	86.6
Speed Delay (hr)	20.5
Speed Del/Veh (s)	69.7
Total Stops	939
Stop/Veh	0.89
Avg Speed (mph)	4
Vehicles Entered	1042
Vehicles Exited	1046
Hourly Exit Rate	1046
Input Volume	1087
% of Volume	96

1: Tyee Drive & FM Fuel Access Performance by approach

Approach	EB	WB	NB	SB	All
Total Delay (hr)	0.7	0.3	3.2	0.1	4.4
Total Del/Veh (s)	13.4	12.1	27.7	0.7	14.9
Speed Delay (hr)	0.7	0.3	3.0	0.1	4.1
Speed Del/Veh (s)	13.2	12.0	25.7	0.7	14.0
Total Stops	196	96	462	4	758
Stop/Veh	0.99	0.98	1.10	0.01	0.72
Avg Speed (mph)	10	8	11	19	11
Vehicles Entered	195	96	411	339	1041
Vehicles Exited	197	98	417	340	1052
Hourly Exit Rate	197	98	417	340	1052
Input Volume	203	92	411	382	1087
% of Volume	97	107	101	89	97

1: Tyee Drive & FM Fuel Access Performance by lane

Lane	EB	EB	WB	WB	NB	NB	SB	All
Movements Served	L	TR	L	TR	LT	TR	LTR	
Total Delay (hr)	0.6	0.1	0.0	0.3	0.2	2.8	0.1	4.4
Speed Delay (hr)	0.6	0.1	0.0	0.3	0.2	2.8	0.1	4.1
Total Stops	137	59	9	87	113	350	5	758
Avg Speed (mph)	9	11	10	8	6	11	19	11
Vehicles Entered	0	0	0	0	0	0	339	1041
Vehicles Exited	138	59	9	88	111	305	340	1052
Hourly Exit Rate	138	59	9	88	111	305	340	1052

1: Tyee Drive & FM Fuel Access Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay (hr)	0.6	0.1	0.0	0.0	0.2	0.1	0.0	3.1	0.1	0.0	0.1	0.0
Total Del/Veh (s)	15.5	9.0	6.0	7.3	13.8	10.9	24.5	28.0	22.7	0.9	0.7	-0.1
Speed Delay (hr)	0.6	0.1	0.0	0.0	0.2	0.1	0.0	2.9	0.1	0.0	0.1	0.0
Speed Del/Veh (s)	15.3	8.9	5.9	7.2	13.7	10.8	20.5	26.0	21.5	0.9	0.7	-0.1
Total Stops	137	46	13	9	50	37	9	437	16	1	3	0
Stop/Veh	0.99	1.00	1.00	1.00	0.98	0.97	1.29	1.10	1.07	0.04	0.01	0.00
Avg Speed (mph)	9	11	12	10	7	8	12	11	12	15	20	15
Vehicles Entered	136	46	13	9	50	37	7	389	15	28	306	5
Vehicles Exited	138	46	13	9	51	38	7	395	15	28	307	5
Hourly Exit Rate	138	46	13	9	51	38	7	395	15	28	307	5
Input Volume	143	47	13	9	47	35	7	389	15	27	350	5
% of Volume	97	98	102	97	109	108	97	102	102	104	88	95

1: Tyee Drive & FM Fuel Access Performance by movement

Movement	All
Total Delay (hr)	4.4
Total Del/Veh (s)	14.9
Speed Delay (hr)	4.1
Speed Del/Veh (s)	14.0
Total Stops	758
Stop/Veh	0.72
Avg Speed (mph)	11
Vehicles Entered	1041
Vehicles Exited	1052
Hourly Exit Rate	1052
Input Volume	1087
% of Volume	97

APPENDIX K **Scoping**

David Holt

From: Matt Webb [MWEBB@ci.tumwater.wa.us]

Sent: Thursday, May 24, 2012 4:47 PM

To: David Holt

Subject: Re: Fwd: Fred Meyer Fuel: Growth Rate

>>> Jay Eaton 5/24/2012 4:42 PM >>> The 2% is acceptable.

>>> On 5/24/2012 at 4:20 PM, in message <4FBEC22A.771 : 117 : 7076>, Matt Webb wrote:

>>> David Holt < $\underline{\text{DHolt@grpmack.com}} > 5/24/2012 \ 2:46 \ PM >>> \\ \text{Hi Matt,}$

Today's question regarding the proposed Fred Meyer fuel facility at the Trosper Road/Tyee Drive intersection addresses traffic growth. The WSDOT 2011 Annual Traffic Report shows increases from 2008 to 2011 of 1% to 2% at nearby locations along Interstate 5; the average is 0.5% per year.

We propose to apply a 2.0% growth rate for one year --- anticipating the Fred Meyer Fuel opening in the next 12 months --- to the existing traffic. Since the WalMart was open at the time of the traffic counts (May 8th), 2.0% should more than cover both general background growth and any pipeline trips from developments already approved but not yet occupied.

Please confirm this 2.0% growth rate will be acceptable. Thanks very much for your time.

David Holt, P.E.

Transportation/Civil Project Engineer

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Heritage Building | Suite 101 601 Main Street Vancouver, WA 98660 T: 360.695.7879 | F: 360.693.6637 www.groupmackenzie.com | vcard

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David Holt

From: David Holt

Sent: Wednesday, May 23, 2012 2:57 PM

To: Matt Webb
Cc: Brent Ahrend

Subject: RE: Fred Meyer Tumwater Fuel - Trips

Attachments: Trip Generation Estimate (PM).pdf; Trip Assignments (Prelim).pdf; Site Plan with Existing Demo.pdf

Thanks very much, Matt (and Jay).

We anticipated analyzing the net increase of the Fred Meyer Fuel trips over the counted 76 Fuel trips; the updated trip accounting is attached. We expected to provide thorough documentation of the unique trip generation, trip types, and trip distribution patterns, so these comments are as expected as well. The updated total trip assignment sheet is attached; the detailed assignments of shared trips, pass-by+diverted trips, and primary trips will be provided with the analysis.

The proposed site plan includes a single right-in/right-out driveway on Trosper Road and a single full-movement driveway on Tyee Drive aligned with the Fred Meyer Store exit, and these modifications are consistent with the concern over consolidating or restricting driveways. The current site plan is attached for reference.

So just to be clear: our analysis will address traffic conditions at the site driveways and the Trosper Road/Tyee Drive/I-5 Southbound Ramps intersection (the adjacent intersection). The Fred Meyer Fuel trips are anticipated to add no more than 20 trips to other intersections, well below the thresholds noted in Tumwater Municipal Code 15.48.60, so no other intersections will be included in the analysis.

Thank you again for your quick reply. We will be in contact again soon.

David Holt

From: Matt Webb [mailto:MWEBB@ci.tumwater.wa.us]

Sent: Wednesday, May 23, 2012 2:31 PM

To: David Holt Cc: Brent Ahrend

Subject: Fwd: RE: Fred Meyer Tumwater Fuel - Trips

Hi David. Here are the comments.

Matt

>>> Jay Eaton 5/23/2012 9:31 AM >>>

Matt

The data from the existing Circle K is what I had expected. What this means, is that the ADDITIONAL trips at the driveways will be significantly greater than what was originally discussed. This is important when assessing existing intersection/driveway operations and comparing them to future operations with the project.

The survey information seems to be (unless I'm reading it wrong) indicating that virtually all of the trips to the surveyed Fred Meyer gas locations used a Fred Meyer Rewards card. In as much as the counts to/from the existing Circle K include almost no Fred Meyer traffic, I would infer that any Fred Meyer trips (primary, pass-by, or diverted) would be additive to the existing traffic at the Circle K. This seems logical due to the location of the facility at the junction of a ramp terminal from I-5 as well as it's location on a Major arterial with 1500 to 2000 vehicles per hour in the pm peak.

It also seems logical that by virtue of being located on the I-5 ramp the gas facility would be very likely to draw "out of area" Fred Meyer customers from the I-5 corridor as a diverted trip from I-5 (which is a new trip to the local system).

In summary, the *unique* location of the proposed facility requires that there are additional influences that need to be considered. The trip generation for the proposed facility needs to include and discuss:

- 1. Typical LOCAL Fred Meyer Gas Station trip generation.
- 2. Non Fred Meyer Store trip generation (similar to what the Circle K currently generates).
- 3. Fred Meyer Gas Station OUT OF AREA trips (FM patrons diverted from I-5).

The total trips as well as the shared trip and primary trip percentages could be significantly impacted by the above.

The consultant needs to include analysis and discussion of the above in their work in regards to the trip generation and total traffic volumes to be used in the analysis.

The *expanded* use of this site is (very) likely to result in the elimination/restriction of one or more of the existing driveways. Operational analysis of the driveways and adjacent intersections will ultimately need to include driveway trip assignments based on reduced/modified access points.

Jay

>>> On 5/22/2012 at 3:34 PM, in message <4FBC1468.73D : 117 : 7076>, Matt Webb wrote:

>>> David Holt < $\underline{\text{DHolt@grpmack.com}} > 5/22/2012 \ 10:12 \ \text{AM} >>> \\ \text{Hi Matt,}$

Linked below are the driveway counts for the existing 76/Circle K establishment. With 67 total trips during the weekday PM peak hour, these data are much lower than ITE would predict for a similar facility (8 fueling positions + 1,736 SF convenience market), no matter which ITE land use (853 or 945) is used or which unit (VFP or KSF) is used as the trip basis.

Also linked below is the recent survey of Fred Meyer fuel facilities in Gresham and Sandy, Oregon. The average results show (of the total trips):

- > 38% shared trips with the Fred Meyer store
- > 30% pass-by trips
- > 20% diverted linked trips
- > 12% primary trips

We propose to apply these trip type percentages to the proposed Fred Meyer fuel facility development in Tumwater.

Click on the link below to access the files that have been referred to you: http://www.grpmack.org/dl/dl.php?id=WbWLk9JOFEd735KlmdBm

*The files will be available until August 20th, 2012.

Our client has asked us to submit an application as soon as possible, so please complete your review of the traffic study scope at your earliest opportunity. Thank you for your time.

Sincerely,

David Holt, P.E.

Transportation/Civil Project Engineer

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From: Matt Webb [mailto:MWEBB@ci.tumwater.wa.us]

Sent: Tuesday, May 01, 2012 4:02 PM

To: David Holt **Cc:** Brent Ahrend

Subject: Re: Fred Meyer Tumwater Fuel - Trips

Hi David. Sorry for the long delay. Can you provide us with the existing driveway counts for the 76/Circle K and get us copies of the data from recent surveys of other Fred Meyer fuel locations.

Thanks,

Matt

>>> David Holt <DHolt@grpmack.com> 4/18/2012 3:22 PM >>> Hi Matt,

Following upon our phone message this afternoon, attached are the numbers and estimates we'd like to discuss with you. The trip generation estimate includes the following assumptions:

- 5% of the trips currently at the 76/Circle-K are traveling to/from the Fred Meyer store. These are labeled "internal trips."
- 38% of the trips at the proposed Fred Meyer Fuel will travel directly to/from the Fred Meyer store. This value, like the 50% pass-by+diverted linked and the 12% primary rates, is based on recent surveys we've conducted at similar Fred Meyer Fuel locations.
- You'll see that we're modeling the pass-by and diverted linked trips together, an approach we've often used for sites such as this one where several high-volume roadways are located nearby.
- The trip assignments address only the net increases in site trips (internal + primary). The decrease in passby+diverted linked trips is ignored for a conservative estimate.

Ultimately the new Fred Meyer Fuel facility is anticipated to add 79 peak hour trips at the relocated driveways to Tyee Drive. Fewer than 5 peak hour trips will be added at the nearby intersections along Trosper Road. Based on this information, we'd like to discuss the scope of the traffic analysis required for the project. We look forward to hearing from you.

Sincerely,

David Holt, P.E. Transportation/Civil Project Engineer

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Trip Generation Estimates

ITE TRIP GENERATION RATES -- PROPOSED USE

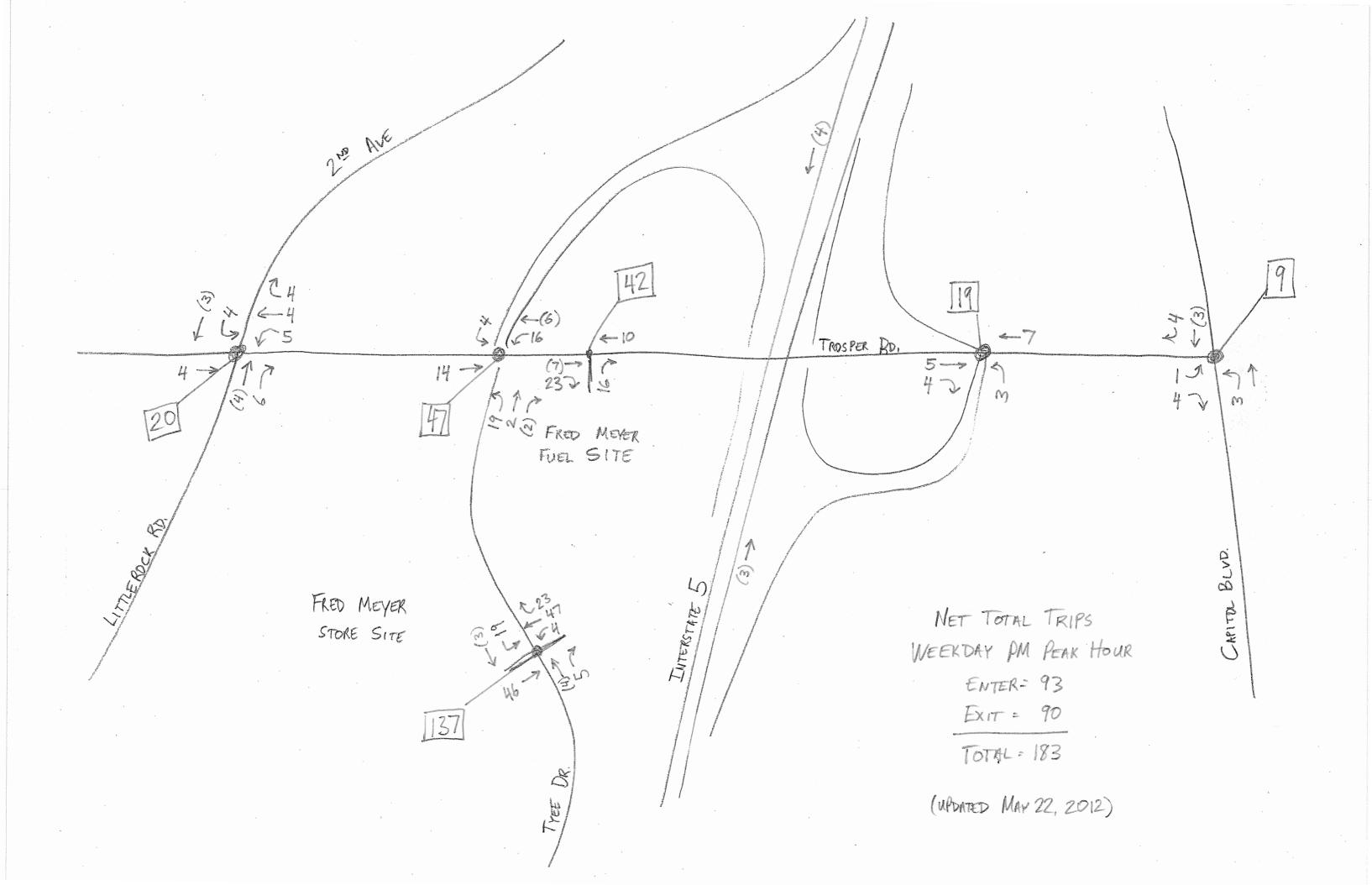
ITE Ed.	ITE CODE	LAND USE	VAR	UNITS	PM Total	PM Enter	PM Exit
8	944	Gasoline/Service Station Internal Pass-By + Diverted Linked Primary	VFP	18 38% 50% 12%	250 94 125 31	47	46 63

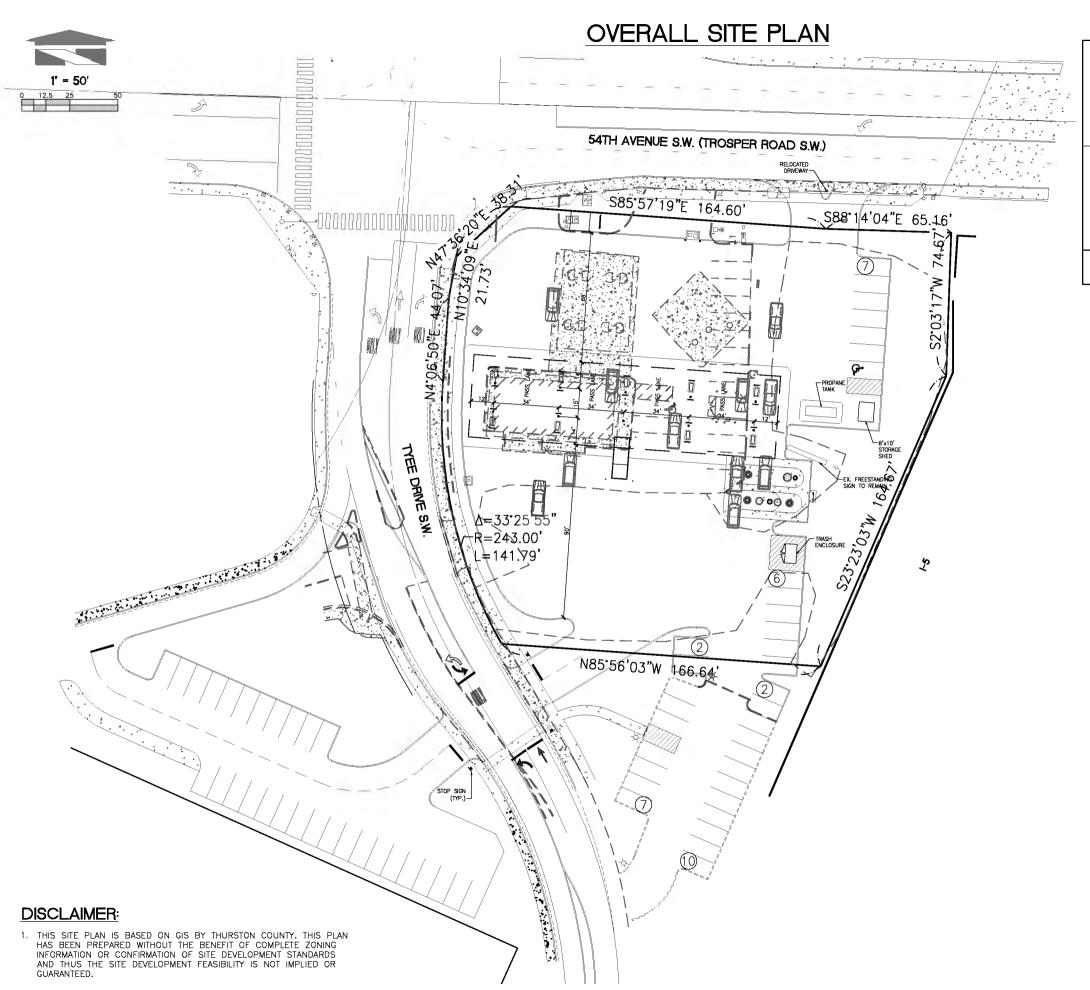
ITE TRIP GENERATION RATES -- EXISTING USE

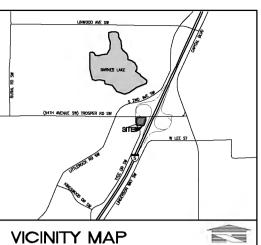
ITE Ed.	ITE CODE	LAND USE	VAR	UNITS	PM Total	PM Enter	PM Exit
<u> </u>		•		•	•		
8	853	Convenience Market with Gas Pumps	VFP	8	153	76	77
		Internal		5%	8	4	4
		Pass-By + Diverted Linked		80%	122	61	61
		Primary		15%	23	11	12

NET TRIPS = (PROPOSED TRIPS) - (EXISTING TRIPS)

ITE	ITE	LAND USE	VAR	UNITS	PM	PM	PM
Ed.	CODE				Total	Enter	Exit
		Total Trips			97	49	48
		Internal			86	<i>4</i> 3	42
		Pass-By + Diverted Linked			3	1	2
		Primary			8	5	4







Fred Meyer

STORE #00--

501 TROSPER ROAD S.W. TUMWATER, WA

THE KROGER CO. AND FRED MEYER STORES INC.

3800 SE 22ND AVENUE PORTLAND, OREGON 97202 503.232.8844 503.797.3509 FAX



FRED MEYER FUELING FACILITY

501 TROSPER ROAD S.W. TUMWATER, WA



Burghmann Corn string Engineers, Inc.
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BCE #15204 PM: CHRIB FERIO DATE: 4/19/11

> OVERALL SITE PLAN