

Appendix C: Parking Analysis

Northbound

Block	Number of Meters	Unmetered distance in feet	Number of Unmetered Spaces (based on distance)
Larned to I-75			
Larned to Campus Martius	3	0	0
Campus Martius to State	6	0	0
State to Adams	18	0	0
Adams to I-75	0	0	0
I-75 to Alexandrine			
I-75 to Winder	0	0	0
Winder to Adelaide	0	0	0
Adelaide to Alfred	0	324	16
Alfred to Edmund	0	317	15
Edmund to Watson	0	320	16
Watson to Erskine	0	132	6
Erskine to Eliot	0	153	7
Eliot to Mack	0	80	4
Mack to Parsons	0	160	8
Parsons to Alexandrine	12	0	0
Alexandrine to Kirby			
Alexandrine to Willis	9	0	0
Willis to Canfield	14	0	0
Canfield to Garfield	0	300	15
Garfield to Forest	0	180	9
Forest to Hancock	0	200	10
Hancock to Warren	0	220	11
Warren to Farnsworth	9	0	0
Farnsworth to Kirby	5	380	19
Kirby to Grand			
Kirby to Ferry	10	0	0
Ferry to Palmer	7	0	0
Palmer to Hendrie	0	160	8
Hendrie to E Edsel Ford	0	0	0
E Edsel Ford to Harper	0	0	0
Harper to Piquette	0	380	19
Piquette to Endicott	0	0	0
Endicott to Baltimore	0	0	0
Baltimore to Milwaukee	4	0	0
Milwaukee to Grand	14	0	0
Grand to Chandler			
Grand to Horton	0	180	9
Horton to Custer	2	230	11
Custer to Bethune	0	90	4
Bethune to Chandler	0	450	22
Total	113	4256	209

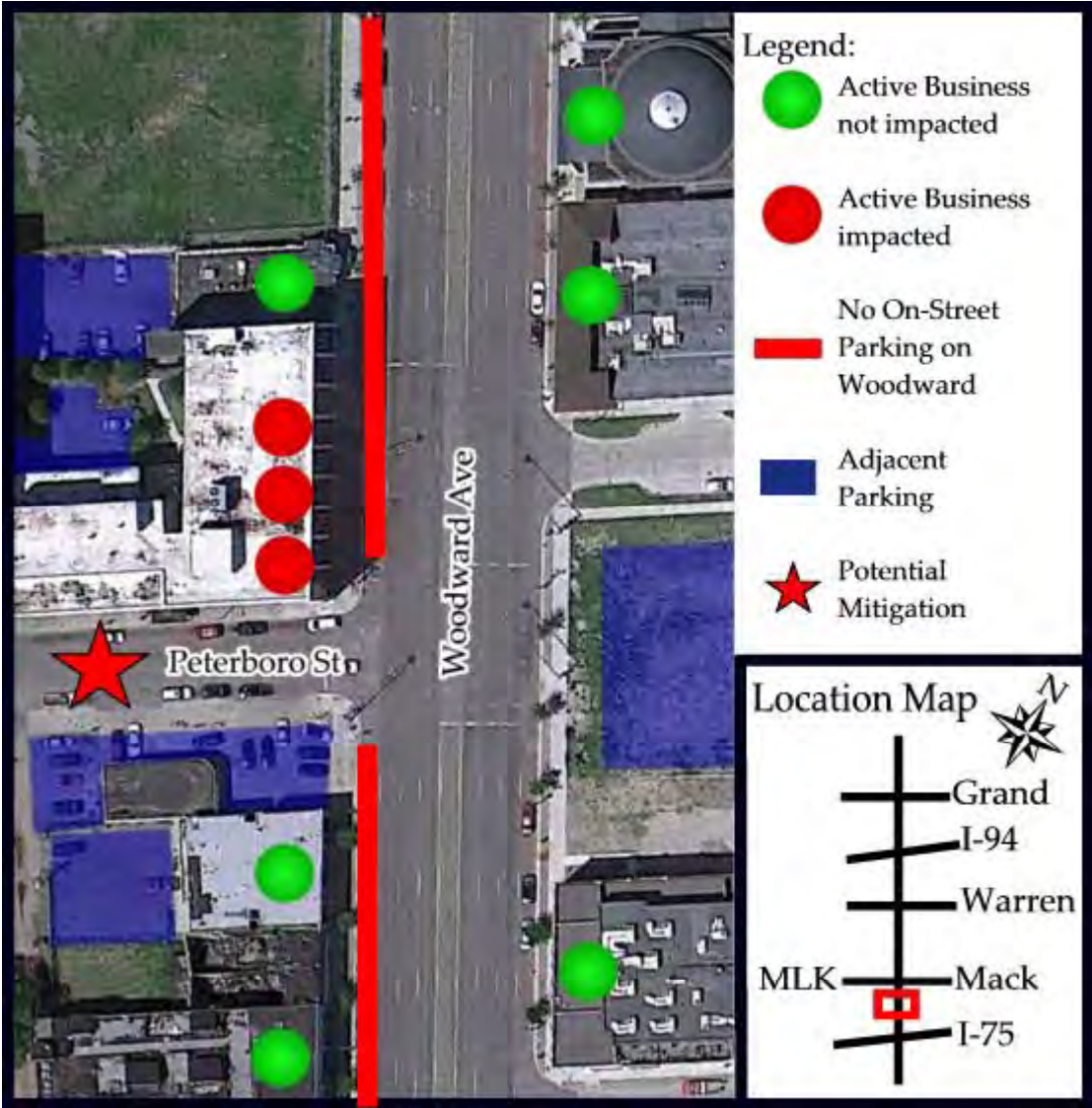
Southbound

Block	Number of Meters	Unmetered distance in feet	Number of Unmetered Spaces (based on distance)
Larned to I-75			
Larned to Campus Martius	0	0	0
Campus Martius to State	0	0	0
State to Adams	0	0	0
Adams to I-75	0	0	0
I-75 to Alexandrine			
I-75 to Henry	0	0	0
Henry to Sibley	0	0	0
Sibley to Sproat	0	0	0
Sproat to Temple	0	280	14
Temple to Charlotte	0	200	10
Charlotte to Peterboro	0	240	12
Peterboro to Stimson	0	300	15
Stimson to Mack	0	120	6
Mack to Parsons	0	320	16
Parsons to Selden	5	0	0
Selden to Alexandrine	14	0	0
Alexandrine to Kirby			
Alexandrine to Willis	6	0	0
Willis to Canfield	2	0	0
Canfield to Forest	0	240	12
Forest to Hancock	0	80	4
Hancock to Warren	12	0	0
Warren to Putnam	6	0	0
Putnam to Kirby	19	0	0
Kirby to Grand			
Kirby to Palmer	3	0	0
Palmer to Hendrie	16	0	0
Hendrie to Antoinette	4	0	0
Antoinette to Burroughs	7	220	11
Burroughs to Amsterdam	0	240	12
Amsterdam to Baltimore	0	0	0
Baltimore to Milwaukee	0	150	7
Milwaukee to Grand	10	0	0
Grand to Chandler			
Grand to Lothrop	0	0	0
Lothrop to Bethune	0	240	12
Bethune to Pallister	0	240	12
Pallister to Delaware	0	230	11
Total	104	3100	154

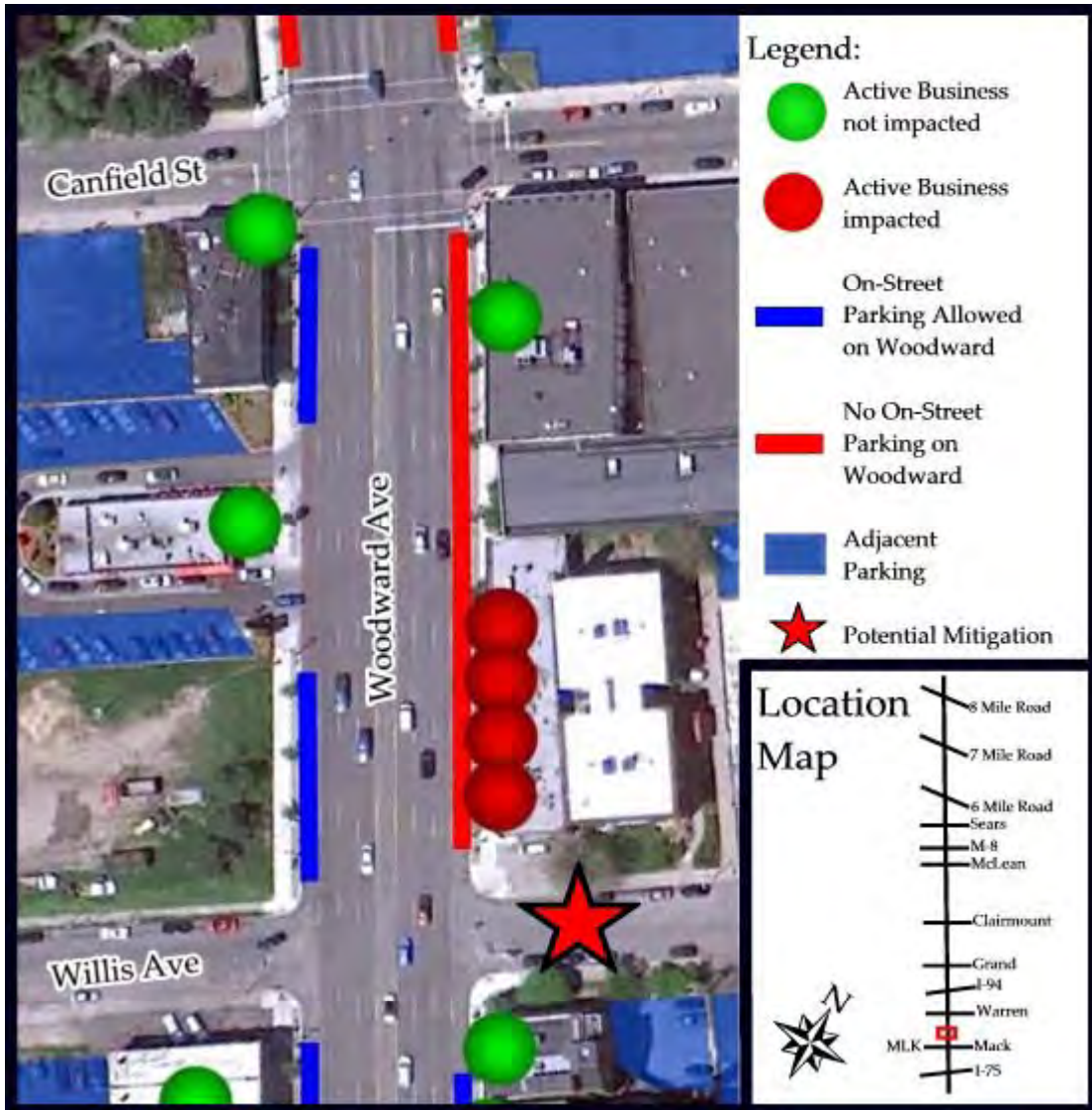
Parking Impacts along Southbound (west) Woodward at Charlotte Street



Parking Impacts along Southbound (west) Woodward at Peterboro Street



Parking Impacts along Northbound (east) Woodward at Willis Avenue



**Woodward Avenue Streetcar
Businesses between I-75 and Delaware
December 27th, 2012**

Removal of Parking on Northbound Side Only

<i>Address (Woodward Ave)</i>	<i>Business Name</i>	<i>Type</i>	<i>Existing Parking</i>	<i>On Street Parking Available with Streetcar? Yes/No</i>	<i>Parking Lot Adjacent Yes/No</i>	<i>Mitigation Needed Yes/No</i>	<i>Mitigation Treatment</i>
East Side of Woodward Avenue between I-75 and Alexandrine							
2966	ACLU of Michigan	All Other Business	On Street, Lot	N	Y	N	N/A
3100	Ye Olde Butcher Shoppe	Food Store	On Street, Lot	N	Y	N	N/A
3434	Bonstelle Theatre	All Other Business	Lot	N/A	Y	N	N/A
3670	Starbucks	Food Store	On Street, Lot	N	Y	N	N/A
3670	T-Mobile	General Merchandise	On Street, Lot	N	Y	N	N/A
3670	FedEx Kinko's	All Other Business	On Street, Lot	N	Y	N	N/A
3670	Bank of America	All Other Business	On Street, Lot	N	Y	N	N/A
3750	Subway	Food Store	On Street, Lot	N	Y	N	N/A
3750	China One	Food Store	On Street, Lot	N	Y	N	N/A
3750	Contains multiple medical offices	All Other Business	On Street, Lot	N	Y	N	N/A
3800	Contains multiple medical offices	All Other Business	On Street, Lot	N	Y	N	N/A
3800 Woodward Suite 1125	Lanzo Lining Services, Inc. - Florida	All Other Business	On Street, Lot	N	Y	N	N/A
East Side of Woodward Avenue between Alexandrine and Kirby							
4100	People's Records & Collectibles	General Merchandise	On Street, Lot	N	Y	N	N/A
4100	Be Nice Yoga	All Other Business	On Street, Lot	N	Y	N	N/A
4100	Detroit Community Acupuncture	All Other Business	On Street, Lot	N	Y	N	N/A
4120	Majestic Theater Center	All Other Business	On Street, Lot	N	Y	N	N/A
4120	Majestic Café	Food Store	On Street, Lot	N	Y	N	N/A
4120	Sgt. Pepperoni's Pizza	Food Store	On Street, Lot	N	Y	N	N/A
4120	Garden Bowl	All Other Business	On Street, Lot	N	Y	N	N/A
4120	Magic Stick	All Other Business	On Street, Lot	N	Y	N	N/A
4160	Vacant	Vacant	On Street, Lot	N	Y	N	N/A
4160	Gallery Tattoo Academy	All Other Business	On Street, Lot	N	Y	N	N/A
4200	Passport Pizza	Food Store	On Street Only	N	N	N	N/A
4206	Vacant	Vacant	On Street Only	N	N	N	N/A
4210	Metro PCS	General Merchandise	On Street Only	N	N	N	N/A
4216	Bangkok Cuisine	Food Store	On Street Only	N	N	N	N/A
4250	JVS Human Service Organization	All Other Business	On Street, Lot	N	Y	N	N/A
4612	Rite Aid	Food Store	On Street, Lot	N	Y	N	N/A
4662	Church's Chicken	Food Store	Lot	N/A	Y	N	N/A
4750	Hannan House Café	Food Store	Lot	N/A	Y	N	N/A

Address (Woodward Ave)	Business Name	Type	Existing Parking	On Street Parking Available with Streetcar? Yes/No	Parking Lot Adjacent Yes/No	Mitigation Needed Yes/No	Mitigation Treatment
East Side of Woodward Avenue between Kirby and Piquette							
15 East Kirby (Storefronts on Woodward Avenue)	Rodin	Food Store	On Street, Structure	N	Y	N	N/A
15 East Kirby (Storefronts on Woodward Avenue)	Wasabi Korean & Japanese Cuisine	Food Store	On Street, Structure	N	Y	N	N/A
15 East Kirby (Storefronts on Woodward Avenue)	Goods	General Merchandise	On Street, Structure	N	Y	N	N/A
15 East Kirby (Storefronts on Woodward Avenue)	Good Girls Go to Paris Crepes	Food Store	On Street, Structure	N	Y	N	N/A
5510	Charfoos & Christensen, P.C. Attorneys and Counselors at Law	All Other Business	On Street, Lot	N	Y	N	N/A
5564	Sunoco	Automotive Retail	Lot	N/A	Y	N	N/A
5564	Domino's Pizza	Food Store	Lot	N/A	Y	N	N/A
5708	Showtime Clothing	General Merchandise	On Street Only	N	N	Y	Meter Palmer Street
5730	Star of Woodward Liquor Store	Food Store	Lot	N/A	Y	N	N/A
5996	BP	Automotive Retail	Lot	N/A	Y	N	N/A
5996	Subway	Food Store	Lot	N/A	Y	N	N/A
6064	Mr. Mike's	Food Store	On Street, Lot	N	Y	N	N/A
6080	Mel's Salon and Associates	All Other Business	On Street, Lot	N	Y	N	N/A
6080	Offin River's Accessories, Etc	General Merchandise	On Street, Lot	N	Y	N	N/A
East Side of Woodward Avenue between Piquette and Grand Blvd							
6250	James-Martin Chevrolet Buick	Automotive Retail	Lot	N/A	Y	N	N/A
6364	White Castle	Food Store	Lot	N/A	Y	N	N/A
6426	Vacant	Vacant	On Street, Lot	N	Y	N	N/A
6432	Detroit Hardware	General Merchandise	On Street, Lot	N	Y	N	N/A
6500	Popeye's Chicken & Biscuits	Food Store	On Street, Lot	N	Y	N	N/A
6506	Vacant	Vacant	On Street, Lot	N	Y	N	N/A
6508	Vacant	Vacant	On Street, Lot	N	Y	N	N/A
6518	Roby's Shoes	General Merchandise	On Street, Lot	N	Y	N	N/A
6520	Vacant	Vacant	On Street Only	N	N	Y	Meter Grand Blvd and nearby public surface lot
6526	Rent-A-Center	General Merchandise	On Street Only	N	N	Y	
6534	Vacant	Vacant	On Street Only	N	N	Y	
6536	Celebrity Apparel	General Merchandise	On Street Only	N	N	Y	
6538	QT Boutique	General Merchandise	On Street Only	N	N	Y	
6540	Dollar Ocean Plus	General Merchandise	On Street Only	N	N	Y	
6560	Vacant	Vacant	On Street Only	N	N	Y	
6568	Lee's Beauty & Barber Supply	General Merchandise	On Street Only	N	N	Y	

Address (Woodward Ave)	Business Name	Type	Existing Parking	On Street Parking Available with Streetcar? Yes/No	Parking Lot Adjacent Yes/No	Mitigation Needed Yes/No	Mitigation Treatment
East Side of Woodward Avenue between Grand Blvd and Clairmont / Owen							
7310 Woodward	Lakeshore Engineering □ Services, LLC	All Other Business	Lot	N/A	Y	N	N/A
7310 Woodward □ Suite 700	A&H Contractors, Inc	All Other Business	Lot	N/A	Y	N	N/A
7310 Woodward □ Suite 740	Alan C. Young Associates, P.C.	All Other Business	Lot	N/A	Y	N	N/A
7400	New Center Liquor Store	Food Store	On Street, Lot	N	Y	N	N/A
7408	Klassy C's Salon	All Other Business	On Street, Lot	N	Y	N	N/A
7414	New China One	Food Store	On Street, Lot	N	Y	N	N/A
7450	Happy's Pizza	Food Store	On Street, Lot	N	Y	N	N/A
West Side of Woodward Avenue between I-75 and Alexandrine							
2951 Woodward	Vietnam Veterans of America Chapter 9	All Other Business	On Street, Lot	Y	Yes	No	N/A
2959 Woodward	Source Apparel	General Merchandise	On Street Only	Y	Yes	N	N/A
2967 Woodward	S&M Dollar Store	General Merchandise	On Street Only	Y	Yes	N	N/A
2969 Woodward	Snyder Wholesale	General Merchandise	On Street Only	Y	Yes	N	N/A
3111 Woodward	Atlas Global Bistro	Food Store	On Street, Lot	Y	Yes	No	N/A
3153 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
3157 Woodward	Physical Therapy	All Other Business	On Street, Lot	Y	Yes	No	N/A
3161 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
3169 Woodward	Pharmor Pharmacy	All Other Business	On Street, Lot	Y	Yes	No	N/A
3401 Woodward	Woodward Check Cashiers	All Other Business	On Street Only	Y	Yes	N	N/A
3411 Woodward	Ludy's Flower Shop	All Other Business	On Street Only	Y	Yes	N	N/A
3415 Woodward	Best N Detroit	All Other Business	On Street Only	Y	Yes	N	N/A
3433 Woodward	Detroit 1 Coney Island	Food Store	On Street, Lot	Y	Yes	N	N/A
3711 Woodward	Orchestra Hall	All Other Business	Valet, Lot	Y	No	No	N/A
3711 Woodward	Max M. Fisher Music Center	All Other Business	Valet, Lot	Y	No	No	N/A
3711 Woodward	Jacob Bernard Pincus Music Education Center	All Other Business	Valet, Lot	Y	No	No	N/A
3909 Woodward Avenue	Woodward Gardens Retail/Theater/Apartments	New Construction	On Street, Structure	Y	Yes	No	N/A
3939 Woodward	Midtown Detroit Inc	All Other Business	On Street, Structure	Y	Yes	N	N/A
3965 Woodward Suite 200A	Great Lakes Coffee Roasting Company	Food Store	On Street, Structure	Y	No	No	N/A
West Side of Woodward Avenue between Alexandrine and Kirby							
4111 Woodward	PNC Bank	All Other Business	Lot	N/A	Yes	No	N/A
4135 Woodward	Grace Harper Florists	All Other Business	On Street, Lot	Y	Yes	No	N/A
4145 Woodward	Union Street Restaurant	Food Store	On Street, Lot	Y	Yes	No	N/A
4161 Woodward	Midtown Liquor and Deli	Food Store	On Street, Lot	Y	Yes	No	N/A
4235 Woodward	McDonald's	Food Store	Lot	N/A	Yes	No	N/A
4265 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
4421 Woodward	The Whitney	Food Store	Valet, Lot	Y	Yes	No	N/A
4421 Woodward	Ghost Bar	Food Store	Valet, Lot	Y	Yes	No	N/A
4501 Woodward	Fifth Third Bank	All Other Business	On Street, Lot	Y	Yes	No	N/A
4501 Woodward	Biggby Coffee	Food Store	On Street, Lot	Y	Yes	No	N/A
4501 Woodward	Utrecht Art Supply	All Other Business	On Street, Lot	Y	Yes	No	N/A
4501 Woodward	Radio Shack	General Merchandise	On Street, Lot	Y	Yes	No	N/A
4501 Woodward	State Pharmacy	All Other Business	On Street, Lot	Y	YES	N	N/A
4501 Woodward	Starter's Bar and Grill	Food Store	On Street, Lot	Y	Yes	No	N/A
4661 Woodward	Mobile	Automotive Retail	Lot	Y	Yes	No	N/A

<i>Address (Woodward Ave)</i>	<i>Business Name</i>	<i>Type</i>	<i>Existing Parking</i>	<i>On Street Parking Available with Streetcar? Y/es/ N/o</i>	<i>Parking Lot Adjacent Y/es/ N/o</i>	<i>Mitigation Needed Y/es/ N/o</i>	<i>Mitigation Treatment</i>
4715 Woodward	MST Media Solutions	All Other Business	On Street, Lot	Y	Yes	No	N/A
4717 Woodward	Bob's Classic Kicks	All Other Business	On Street, Lot	Y	Yes	No	N/A
4719 Woodward	Detroit Artists Market	All Other Business	On Street, Lot	Y	Yes	No	N/A
5057 Woodward	Chase Bank	All Other Business	On Street Only	Y	Yes	N	N/A
West Side of Woodward Avenue between Amsterdam/Piquette and Grand Blvd							
5955 Woodward	London Luggage Shop	General Merchandise	On Street, Lot	Y	Yes	No	N/A
6501 Woodward	Motown Coney Island	Food Store	On Street, Lot	Y	Yes	No	N/A
6505 Woodward	Praise Him Beauty, Barber & Nail Salon	All Other Business	On Street, Lot	Y	Yes	No	N/A
6513 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
6525 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
6535 Woodward	Payless Shoes	General Merchandise	On Street, Lot	Y	Yes	No	N/A
6541 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
6545 Woodward	Hi Fashion Ladies Wear	General Merchandise	On Street, Lot	Y	Yes	No	N/A
6549 Woodward	Prince Men's Wear	General Merchandise	On Street, Lot	Y	Yes	No	N/A
6561 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
6565 Woodward	Vacant	Vacant	On Street, Lot	Y	Yes	No	N/A
West Side of Woodward Avenue between Grand Blvd and Clairmount/Owen							
7375 Woodward	YouthVille Detroit	All Other Business	Lot	N/A	Yes	No	N/A
7401 Woodward	Charter One	All Other Business	Lot	N/A	Yes	No	N/A
7451 Woodward	CVS	Food Store	On Street, Lot	Y	Yes	No	N/A

**Woodward Avenue Streetcar
Businesses between I-75 and Delaware
December 27th, 2012
Removal of Parking on Southbound Side Only**

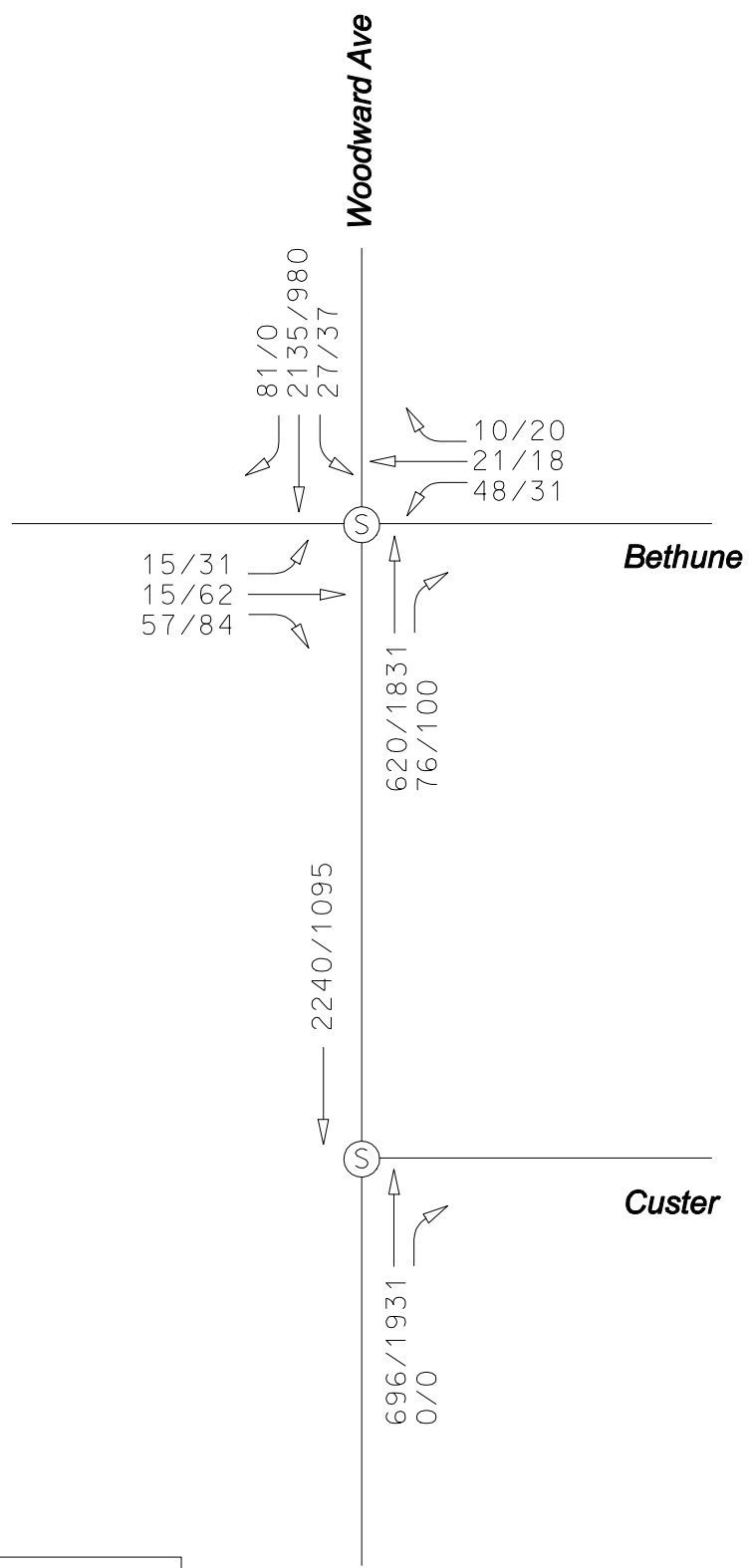
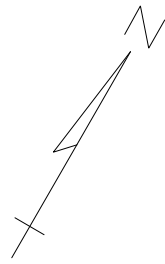
<i>Address (Woodward Ave)</i>	<i>Business Name</i>	<i>Type</i>	<i>Existing Parking</i>	<i>On Street Parking Available with Streetcar? Yes/ No</i>	<i>Parking Lot Adjacent Yes/ No</i>	<i>Mitigation Needed Yes/ No</i>	<i>Mitigation Treatment</i>
East Side of Woodward Avenue between I-75 and Alexandrine							
2966	ACLU of Michigan	All Other Business	On Street, Lot	Y	Y	N	N/A
3100	Ye Olde Butcher Shoppe	Food Store	On Street, Lot	Y	Y	N	N/A
3434	Bonstelle Theatre	All Other Business	Lot	Y	Y	N	N/A
3670	Starbucks	Food Store	On Street, Lot	Y	Y	N	N/A
3670	T-Mobile	General Merchandise	On Street, Lot	Y	Y	N	N/A
3670	FedEx Kinko's	All Other Business	On Street, Lot	Y	Y	N	N/A
3670	Bank of America	All Other Business	On Street, Lot	Y	Y	N	N/A
3750	Subway	Food Store	On Street, Lot	Y	Y	N	N/A
3750	China One	Food Store	On Street, Lot	Y	Y	N	N/A
3750	Contains multiple medical offices	All Other Business	On Street, Lot	Y	Y	N	N/A
3800	Contains multiple medical offices	All Other Business	On Street, Lot	Y	Y	N	N/A
3800 Woodward Suite 1125	Lanzo Lining Servcnies, Inc. - Florida	All Other Business	On Street, Lot	Y	Y	N	N/A
East Side of Woodward Avenue between Alexandrine and Kirby							
4100	People's Records & Collectibles	General Merchandise	On Street, Lot	Y	Y	N	N/A
4100	Be Nice Yoga	All Other Business	On Street, Lot	Y	Y	N	N/A
4100	Detroit Community Acupuncture	All Other Business	On Street, Lot	Y	Y	N	N/A
4120	Majestic Theater Center	All Other Business	On Street, Lot	N	Y	N	N/A
4120	Majestic Café	Food Store	On Street, Lot	Y	Y	N	N/A
4120	Sgt. Pepperoni's Pizza	Food Store	On Street, Lot	Y	Y	N	N/A
4120	Garden Bowl	All Other Business	On Street, Lot	Y	Y	N	N/A
4120	Magic Stick	All Other Business	On Street, Lot	Y	Y	N	N/A
4160	Vacant	Vacant	On Street, Lot	Y	Y	N	N/A
4160	Gallery Tattoo Academy	All Other Business	On Street, Lot	Y	Y	N	N/A
4200	Passport Pizza	Food Store	On Street Only	Y	N	N	N/A
4206	Vacant	Vacant	On Street Only	Y	N	N	N/A
4210	Metro PCS	General Merchandise	On Street Only	Y	N	N	N/A
4216	Bangkok Cuisine	Food Store	On Street Only	Y	N	N	N/A
4250	JVS Human Service Organization	All Other Business	On Street, Lot	N	Y	N	N/A
4612	Rite Aid	Food Store	On Street, Lot	Y	Y	N	N/A
4662	Church's Chicken	Food Store	Lot	N/A	Y	N	N/A
4750	Hannan House Café	Food Store	Lot	N/A	Y	N	N/A

<i>Address (Woodward Ave)</i>	<i>Business Name</i>	<i>Type</i>	<i>Existing Parking</i>	<i>On Street Parking Available with Streetcar? Y/es/ N/o</i>	<i>Parking Lot Adjacent Y/es/ N/o</i>	<i>Mitigation Needed Y/es/ N/o</i>	<i>Mitigation Treatment</i>
East Side of Woodward Avenue between Kirby and Piquette							
15 East Kirby (Storefronts on Woodward Avenue)	Rodin	Food Store	On Street, Structure	Y	Y	N	N/A
15 East Kirby (Storefronts on Woodward Avenue)	Wasabi Korean & Japanese Cuisine	Food Store	On Street, Structure	Y	Y	N	N/A
15 East Kirby (Storefronts on Woodward Avenue)	Goods	General Merchandise	On Street, Structure	Y	Y	N	N/A
15 East Kirby (Storefronts on Woodward Avenue)	Good Girls Go to Paris Crepes	Food Store	On Street, Structure	Y	Y	N	N/A
5510	Charfoos & Christensen, P.C. Attorneys and Counselors at Law	All Other Business	On Street, Lot	Y	Y	N	N/A
5564	Sunoco	Automotive Retail	Lot	N/A	Y	N	N/A
5564	Domino's Pizza	Food Store	Lot	N/A	Y	N	N/A
5708	Showtime Clothing	General Merchandise	On Street Only	Y	N	N	N/A
5730	Star of Woodward Liquor Store	Food Store	Lot	N/A	Y	N	N/A
5996	BP	Automotive Retail	Lot	N/A	Y	N	N/A
5996	Subway	Food Store	Lot	N/A	Y	N	N/A
6064	Mr. Mike's	Food Store	On Street, Lot	Y	Y	N	N/A
6080	Mel's Salon and Associates	All Other Business	On Street, Lot	Y	Y	N	N/A
6080	Offin River's Accessories, Etc	General Merchandise	On Street, Lot	Y	Y	N	N/A
East Side of Woodward Avenue between Piquette and Grand Blvd							
6250	James-Martin Chevrolet Buick	Automotive Retail	Lot	N/A	Y	N	N/A
6364	White Castle	Food Store	Lot	N/A	Y	N	N/A
6426	Vacant	Vacant	On Street, Lot	Y	Y	N	N/A
6432	Detroit Hardware	General Merchandise	On Street, Lot	Y	Y	N	N/A
6500	Popeye's Chicken & Biscuits	Food Store	On Street, Lot	Y	Y	N	N/A
6506	Vacant	Vacant	On Street, Lot	Y	Y	N	N/A
6508	Vacant	Vacant	On Street, Lot	Y	Y	N	N/A
6518	Roby's Shoes	General Merchandise	On Street, Lot	Y	Y	N	N/A
6520	Vacant	Vacant	On Street Only	Y	N	N	N/A
6526	Rent-A-Center	General Merchandise	On Street Only	Y	N	N	N/A
6534	Vacant	Vacant	On Street Only	Y	N	N	N/A
6536	Celebrity Apparel	General Merchandise	On Street Only	Y	N	N	N/A
6538	QT Boutique	General Merchandise	On Street Only	Y	N	N	N/A
6540	Dollar Ocean Plus	General Merchandise	On Street Only	Y	N	N	N/A
6560	Vacant	Vacant	On Street Only	Y	N	N	N/A
6568	Lee's Beauty & Barber Supply	General Merchandise	On Street Only	Y	N	N	N/A

Address (Woodward Ave)	Business Name	Type	Existing Parking	On Street Parking Available with Streetcar? Yes/No	Parking Lot Adjacent Yes/No	Mitigation Needed Yes/No	Mitigation Treatment
East Side of Woodward Avenue between Grand Blvd and Clairmount / Owen							
7310 Woodward	Lakeshore Engineering Services, LLC	All Other Business	Lot	N/A	Y	N	N/A
7310 Woodward Suite 700	A&H Contractors, Inc	All Other Business	Lot	N/A	Y	N	N/A
7310 Woodward Suite 740	Alan C. Young Associates, P.C.	All Other Business	Lot	N/A	Y	N	N/A
7400	New Center Liquor Store	Food Store	On Street, Lot	Y	Y	N	N/A
7408	Klassy C's Salon	All Other Business	On Street, Lot	Y	Y	N	N/A
7414	New China One	Food Store	On Street, Lot	Y	Y	N	N/A
7450	Happy's Pizza	Food Store	On Street, Lot	Y	Y	N	N/A
West Side of Woodward Avenue between I-75 and Alexandrine							
2951 Woodward	Vietnam Veterans of America Chapter 9	All Other Business	On Street, Lot	N	Yes	No	N/A
2959 Woodward	Source Apparel	General Merchandise	On Street Only	N	Yes	Y	
2967 Woodward	S&M Dollar Store	General Merchandise	On Street Only	N	Yes	Y	
2969 Woodward	Snyder Wholesale	General Merchandise	On Street Only	N	Yes	Y	
3111 Woodward	Atlas Global Bistro	Food Store	On Street, Lot	N	Yes	No	N/A
3153 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
3157 Woodward	Physical Therapy	All Other Business	On Street, Lot	N	Yes	No	N/A
3161 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
3169 Woodward	Pharmor Pharmacy	All Other Business	On Street, Lot	N	Yes	No	N/A
3401 Woodward	Woodward Check Cashiers	All Other Business	On Street Only	N	Yes	Y	
3411 Woodward	Ludy's Flower Shop	All Other Business	On Street Only	N	Yes	Y	
3415 Woodward	Best N Detroit	All Other Business	On Street Only	N	Yes	Y	
3433 Woodward	Detroit 1 Coney Island	Food Store	On Street, Lot	N	Yes	N	N/A
3711 Woodward	Orchestra Hall	All Other Business	Valet, Lot	N	No	No	N/A
3711 Woodward	Max M. Fisher Music Center	All Other Business	Valet, Lot	N	No	No	N/A
3711 Woodward	Jacob Bernard Pincus Music Education Center	All Other Business	Valet, Lot	N	No	No	N/A
3909 Woodward Avenue	Woodward Gardens Retail/Theater/Apartments	New Construction	On Street, Structure	N	Yes	No	N/A
3939 Woodward	Midtown Detroit Inc	All Other Business	On Street, Structure	N	Y	N	N/A
3965 Woodward Suite 200A	Great Lakes Coffee Roasting Company	Food Store	On Street, Structure	N	No	No	N/A
West Side of Woodward Avenue between Alexandrine and Kirby							
4111 Woodward	PNC Bank	All Other Business	Lot	N/A	Yes	No	N/A
4135 Woodward	Grace Harper Florists	All Other Business	On Street, Lot	N	Yes	No	N/A
4145 Woodward	Union Street Restaurant	Food Store	On Street, Lot	N	Yes	No	N/A
4161 Woodward	Midtown Liquor and Deli	Food Store	On Street, Lot	N	Yes	No	N/A
4235 Woodward	McDonald's	Food Store	Lot	N/A	Yes	No	N/A
4265 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
4421 Woodward	The Whitney	Food Store	Valet, Lot	N	Yes	No	N/A
4421 Woodward	Ghost Bar	Food Store	Valet, Lot	N	Yes	No	N/A
4501 Woodward	Fifth Third Bank	All Other Business	On Street, Lot	N	Yes	No	N/A
4501 Woodward	Biggy Coffee	Food Store	On Street, Lot	N	Yes	No	N/A
4501 Woodward	Utrecht Art Supply	All Other Business	On Street, Lot	N	Yes	No	N/A
4501 Woodward	Radio Shack	General Merchandise	On Street, Lot	N	Yes	No	N/A
4501 Woodward	State Pharmacy	All Other Business	On Street, Lot	N	YES	N	N/A
4501 Woodward	Starter's Bar and Grill	Food Store	On Street, Lot	N	Yes	No	N/A
4661 Woodward	Mobile	Automotive Retail	Lot	N/A	Yes	No	N/A
4715 Woodward	MST Media Solutions	All Other Business	On Street, Lot	N	Yes	No	N/A

<i>Address (Woodward Ave)</i>	<i>Business Name</i>	<i>Type</i>	<i>Existing Parking</i>	<i>On Street Parking Available with Streetcar? <u>Y</u>es/<u>N</u>o</i>	<i>Parking Lot Adjacent <u>Y</u>es/<u>N</u>o</i>	<i>Mitigation Needed <u>Y</u>es/<u>N</u>o</i>	<i>Mitigation Treatment</i>
4717 Woodward	Bob's Classic Kicks	All Other Business	On Street, Lot	N	Yes	No	N/A
4719 Woodward	Detroit Artists Market	All Other Business	On Street, Lot	N	Yes	No	N/A
5057 Woodward	Chase Bank	All Other Business	N/A	N/A	N/A	N/A	N/A
West Side of Woodward Avenue between Amsterdam/Piquette and Grand Blvd							
5955 Woodward	London Luggage Shop	General Merchandise	On Street, Lot	N	Yes	No	N/A
6501 Woodward	Motown Coney Island	Food Store	On Street, Lot	N	Yes	No	N/A
6505 Woodward	Praise Him Beauty, Barber & Nail Salon	All Other Business	On Street, Lot	N	Yes	No	N/A
6513 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
6525 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
6535 Woodward	Payless Shoes	General Merchandise	On Street, Lot	N	Yes	No	N/A
6541 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
6545 Woodward	Hi Fashion Ladies Wear	General Merchandise	On Street, Lot	N	Yes	No	N/A
6549 Woodward	Prince Men's Wear	General Merchandise	On Street, Lot	N	Yes	No	N/A
6561 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
6565 Woodward	Vacant	Vacant	On Street, Lot	N	Yes	No	N/A
West Side of Woodward Avenue between Grand Blvd and Clairmount/Owen							
7375 Woodward	YouthVille Detroit	All Other Business	Lot	N/A	Yes	No	N/A
7401 Woodward	Charter One	All Other Business	Lot	N/A	Yes	No	N/A
7451 Woodward	CVS	Food Store	On Street, Lot	N	Yes	No	N/A

Appendix D: 2030 Streetcar Turning Movement Volumes and VISSIM Model Results



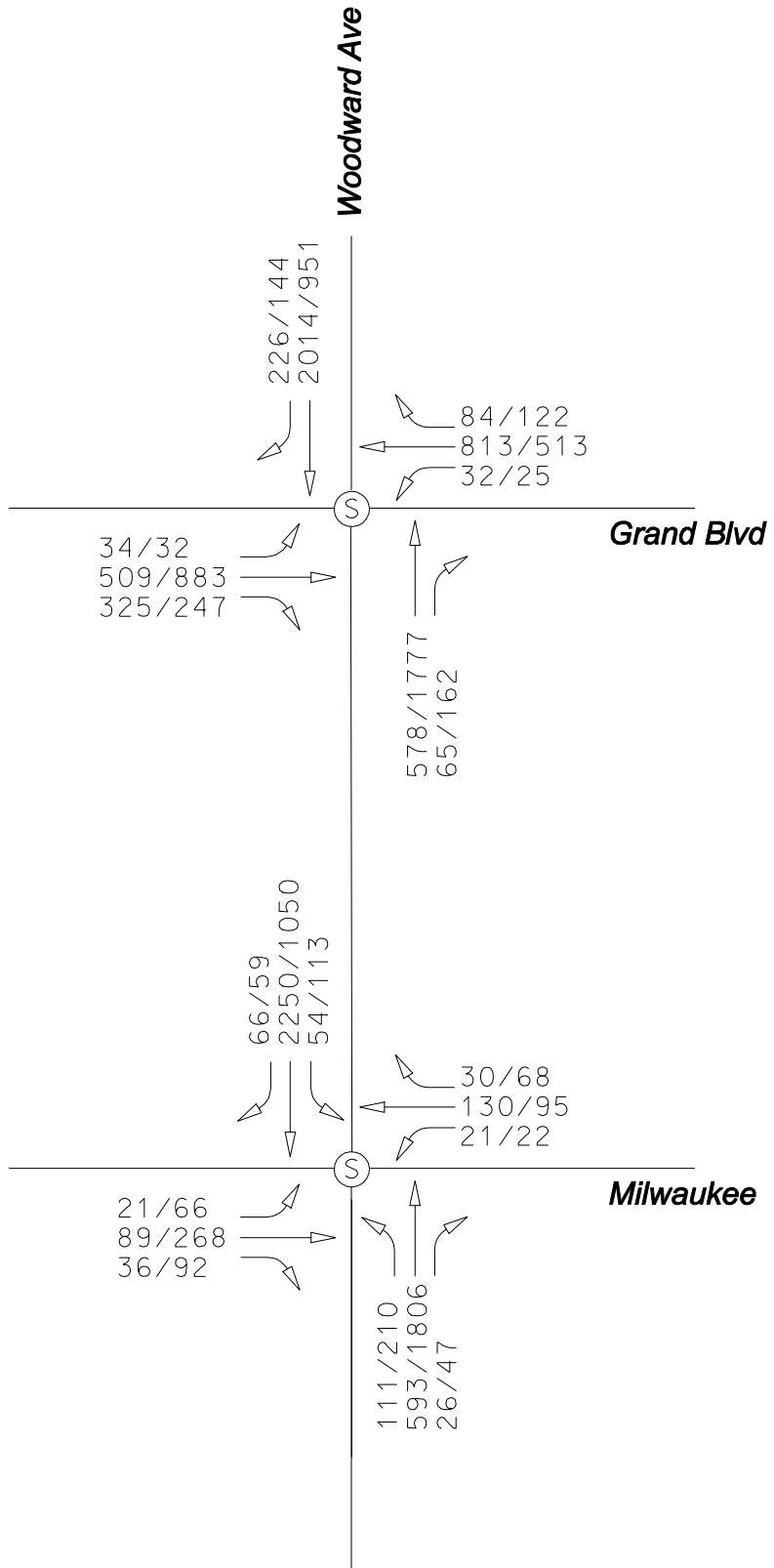
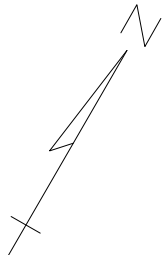
LEGEND
XX/XX = AM/PM Peak Hour Volumes
Ⓢ - Traffic Signal

WOODWARD LRT FEIS

FUTURE 2030 VOLUMES
AM/PM PEAK HOUR PREFERRED ALTERNATIVE



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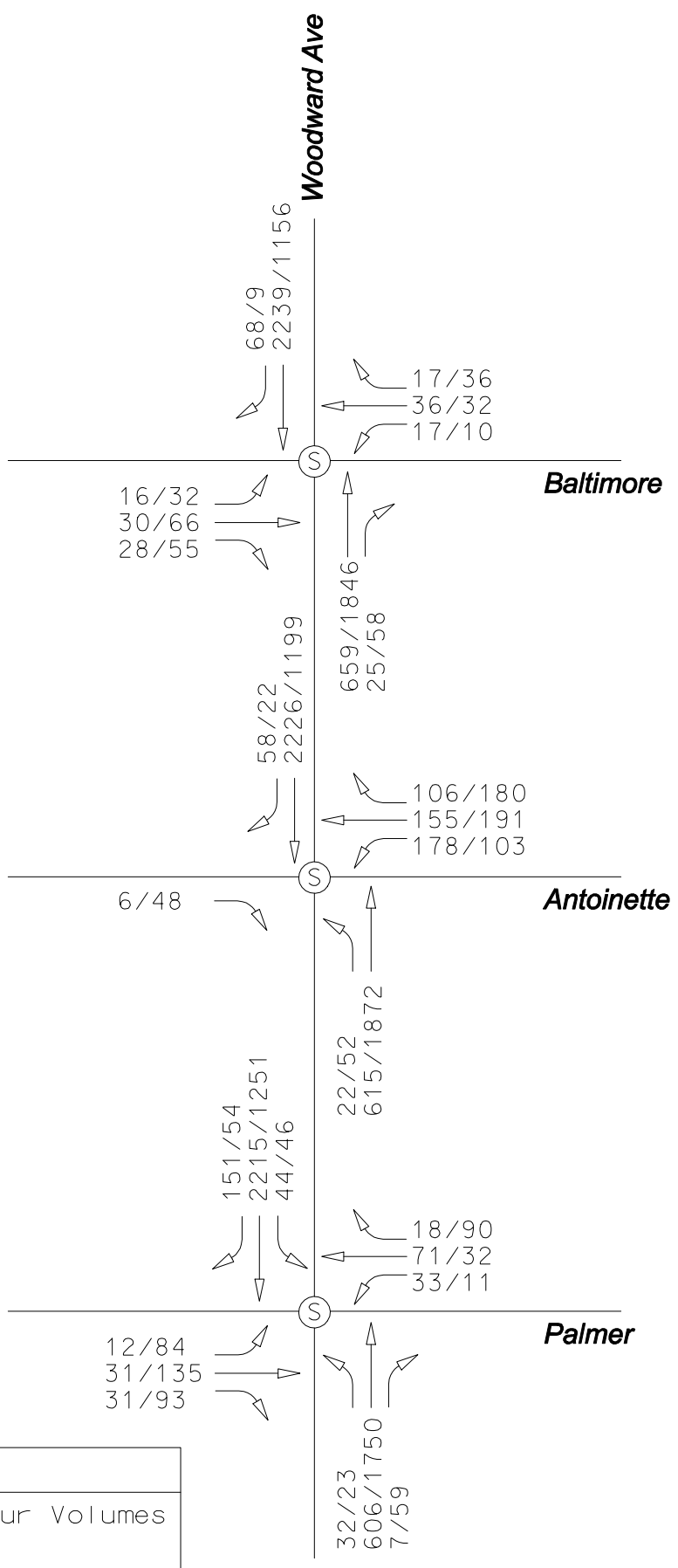
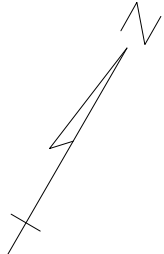


LEGEND

XX/XX = AM/PM Peak Hour Volumes

Ⓢ - Traffic Signal



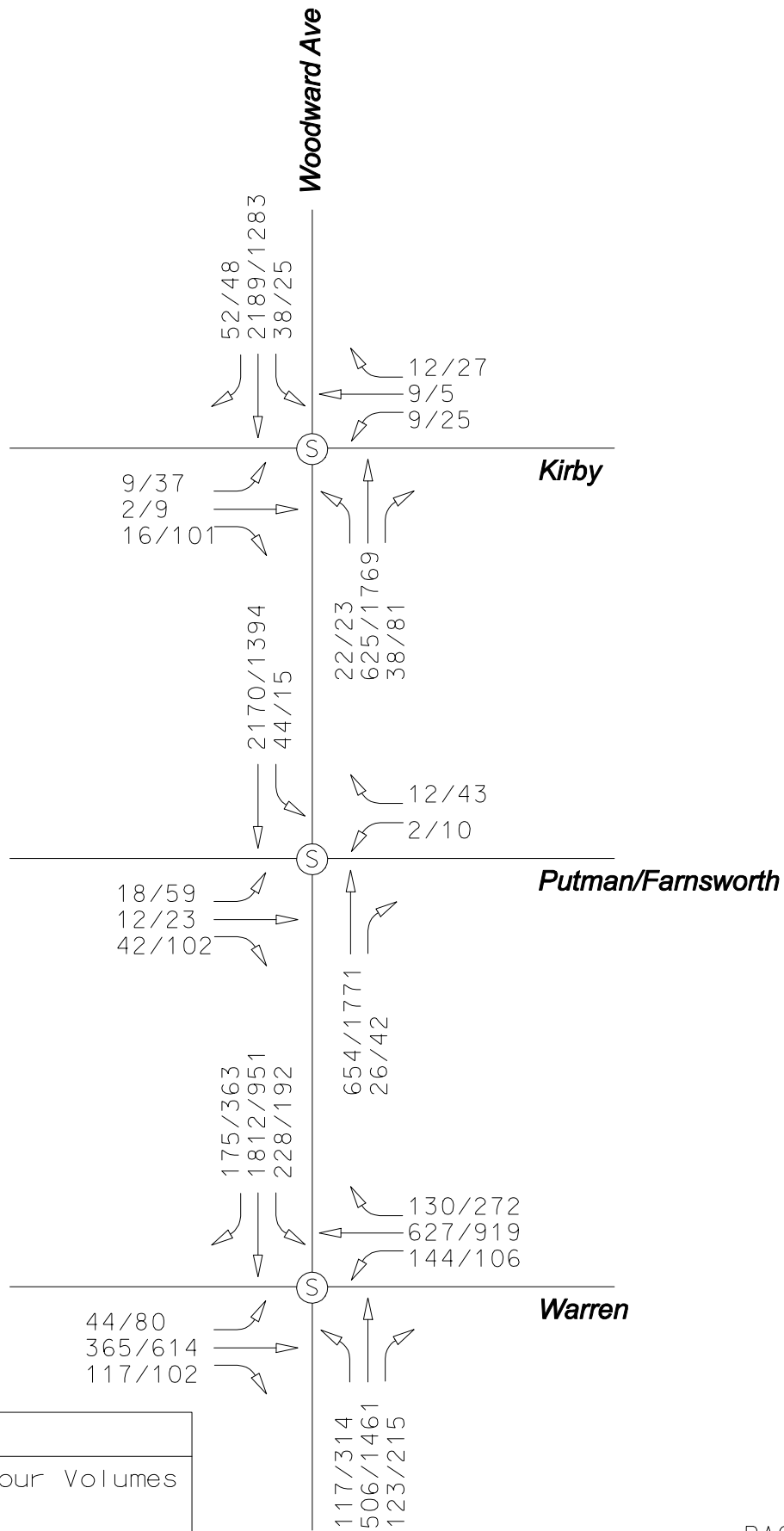
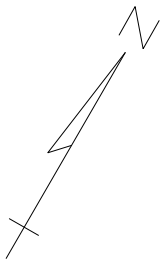


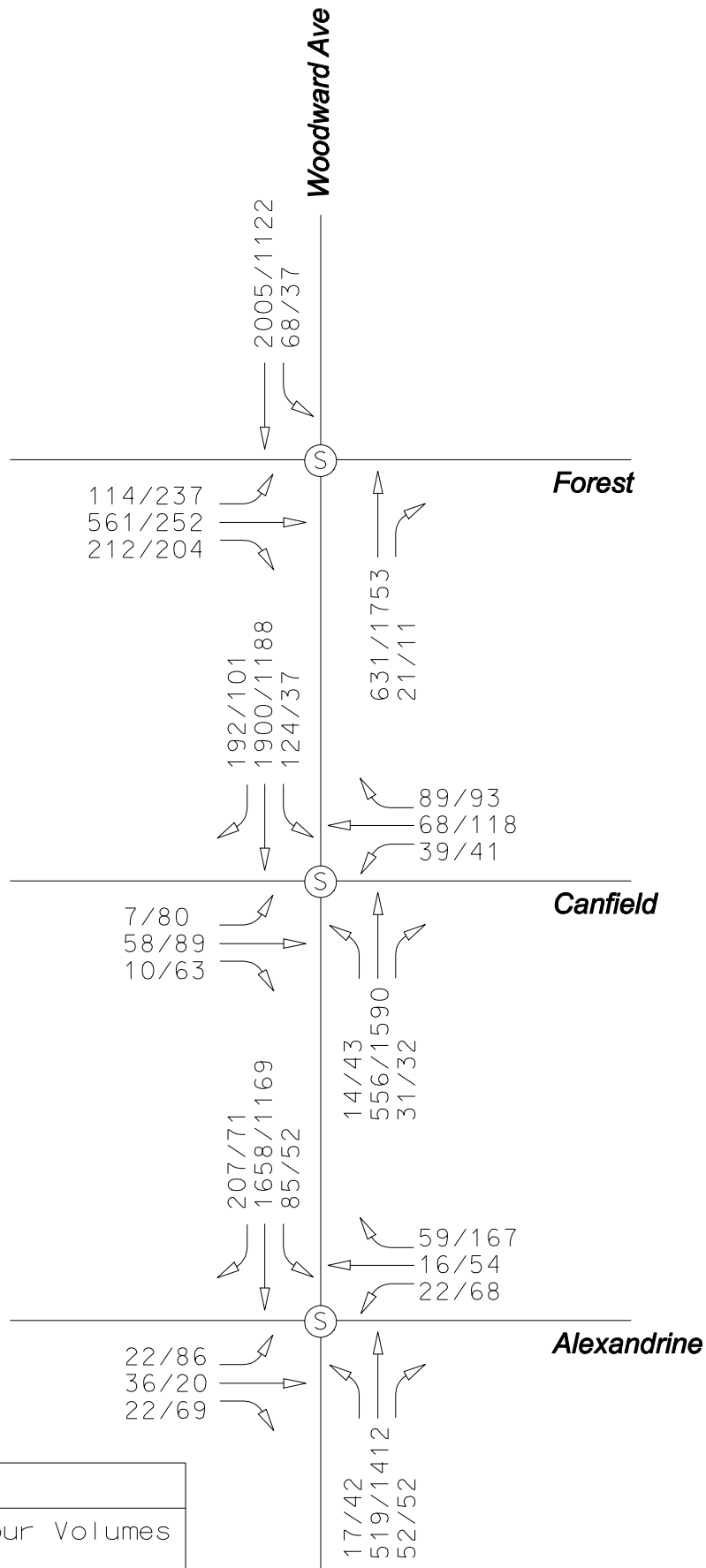
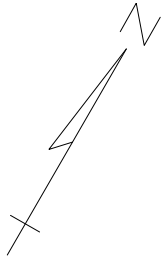
WOODWARD LRT FEIS

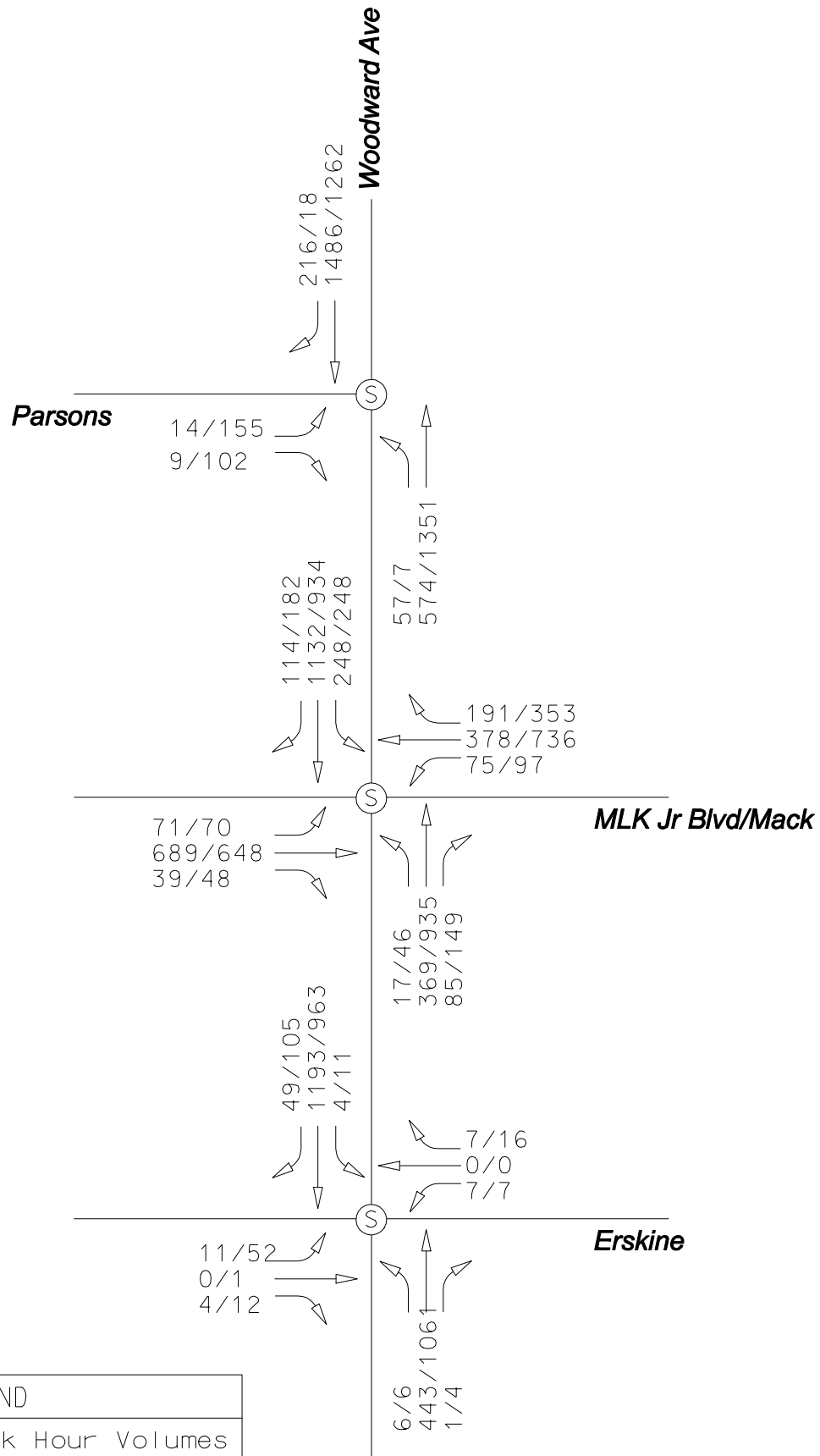
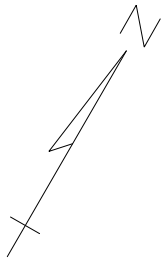
FUTURE 2030 VOLUMES
AM/PM PEAK HOUR PREFERRED ALTERNATIVE



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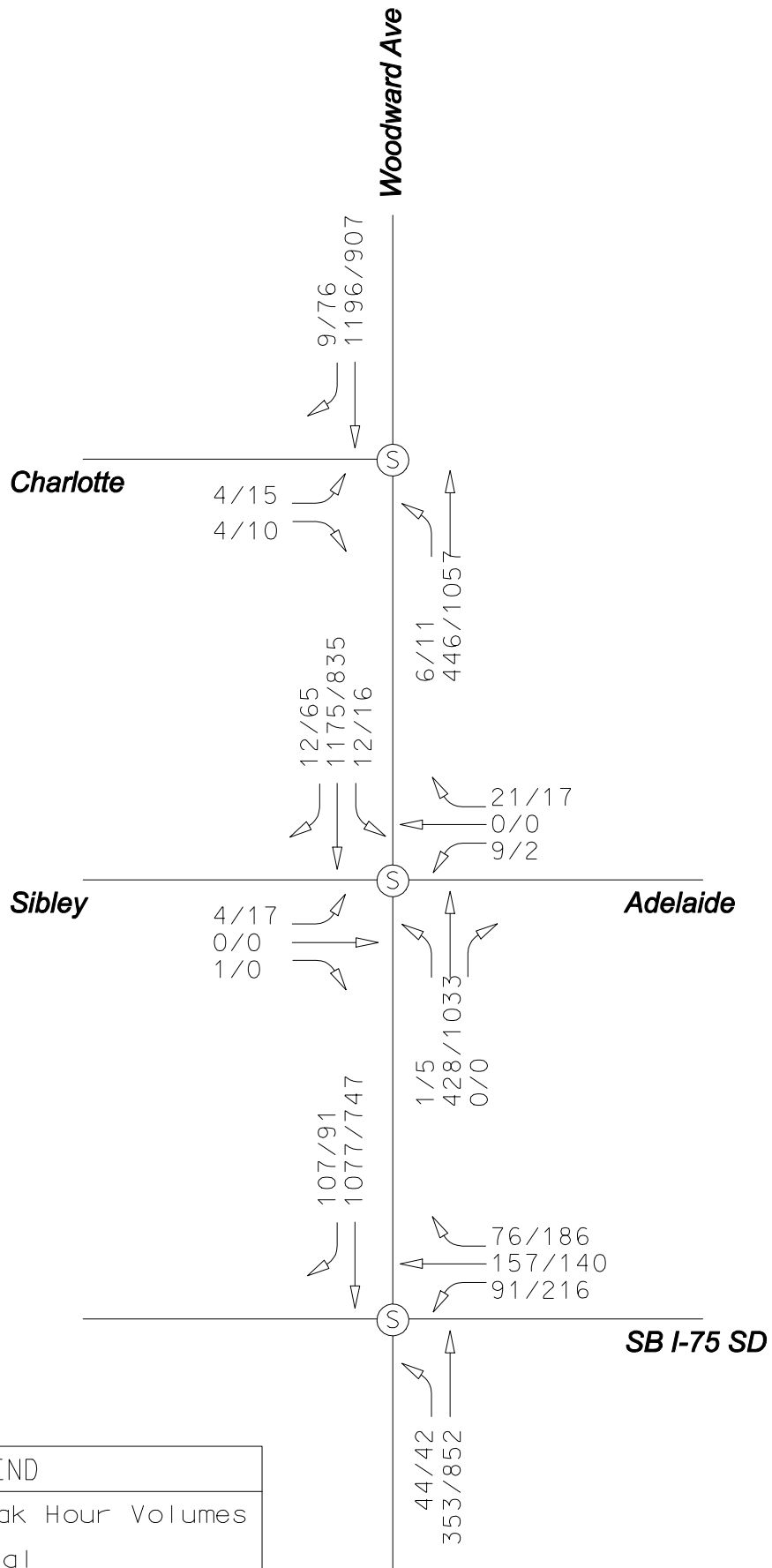
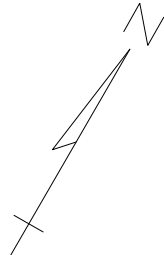


LEGEND

XX/XX = AM/PM Peak Hour Volumes

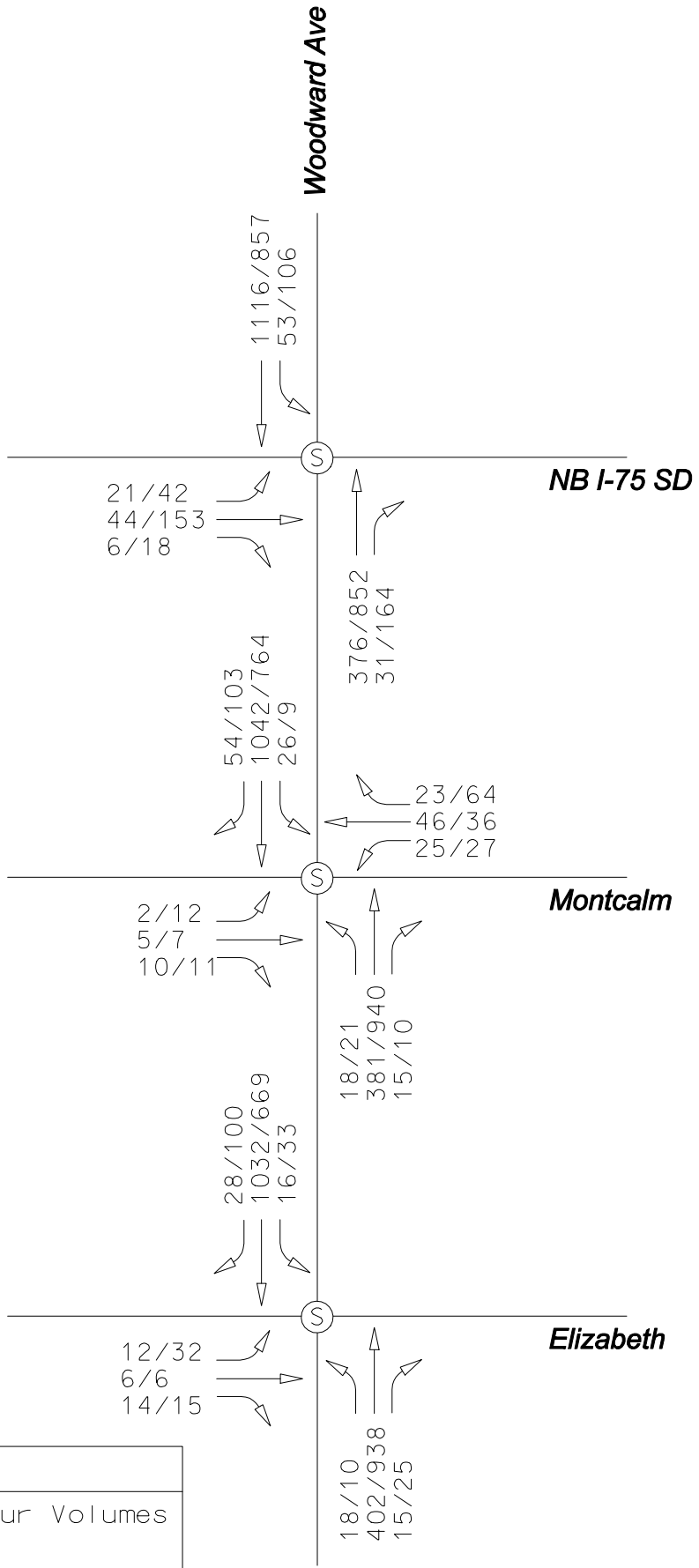
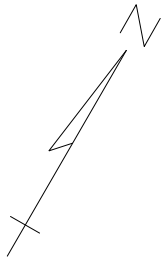
Ⓢ - Traffic Signal



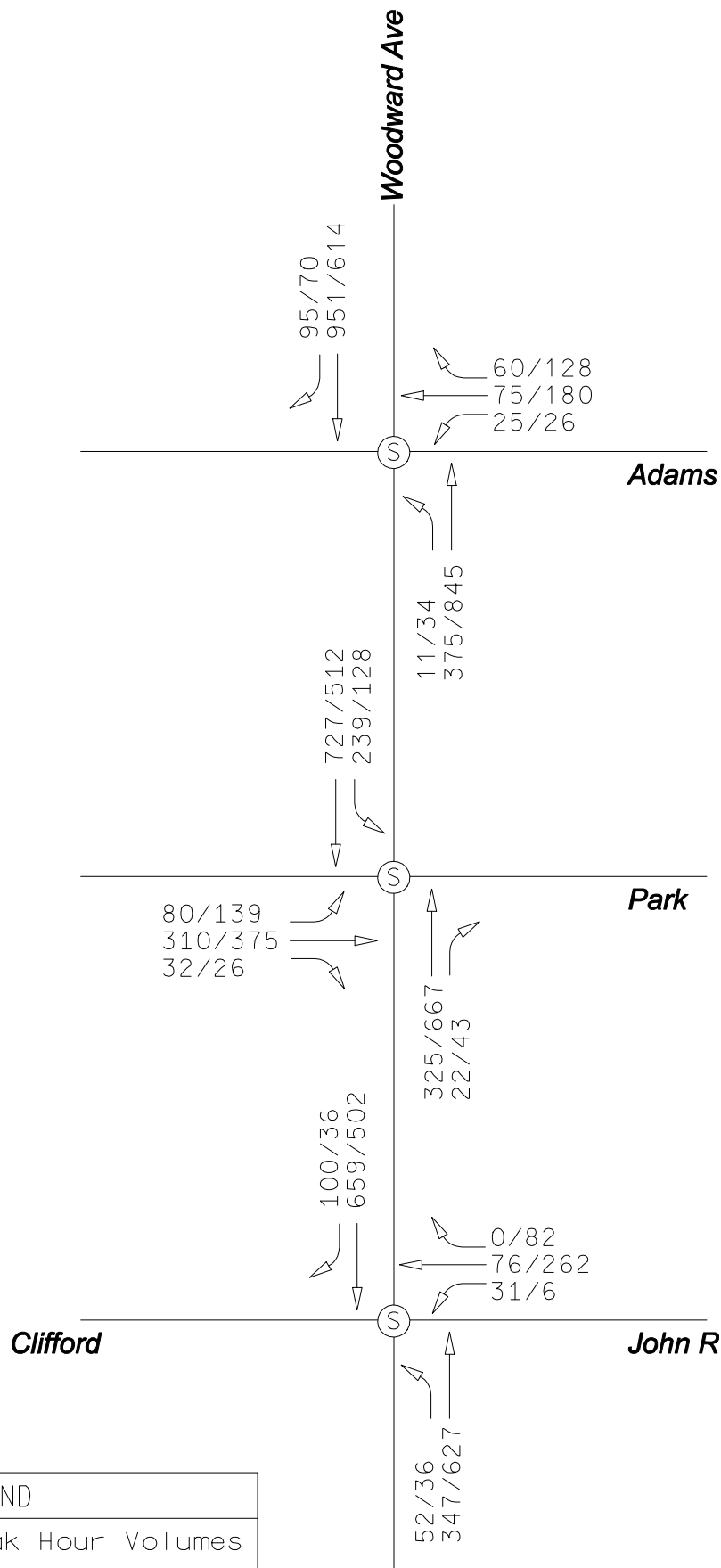
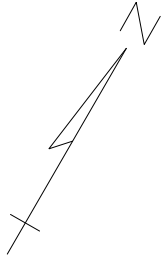


LEGEND
 XX/XX = AM/PM Peak Hour Volumes
 (S) - Traffic Signal





LEGEND
XX/XX = AM/PM Peak Hour Volumes
(S) - Traffic Signal

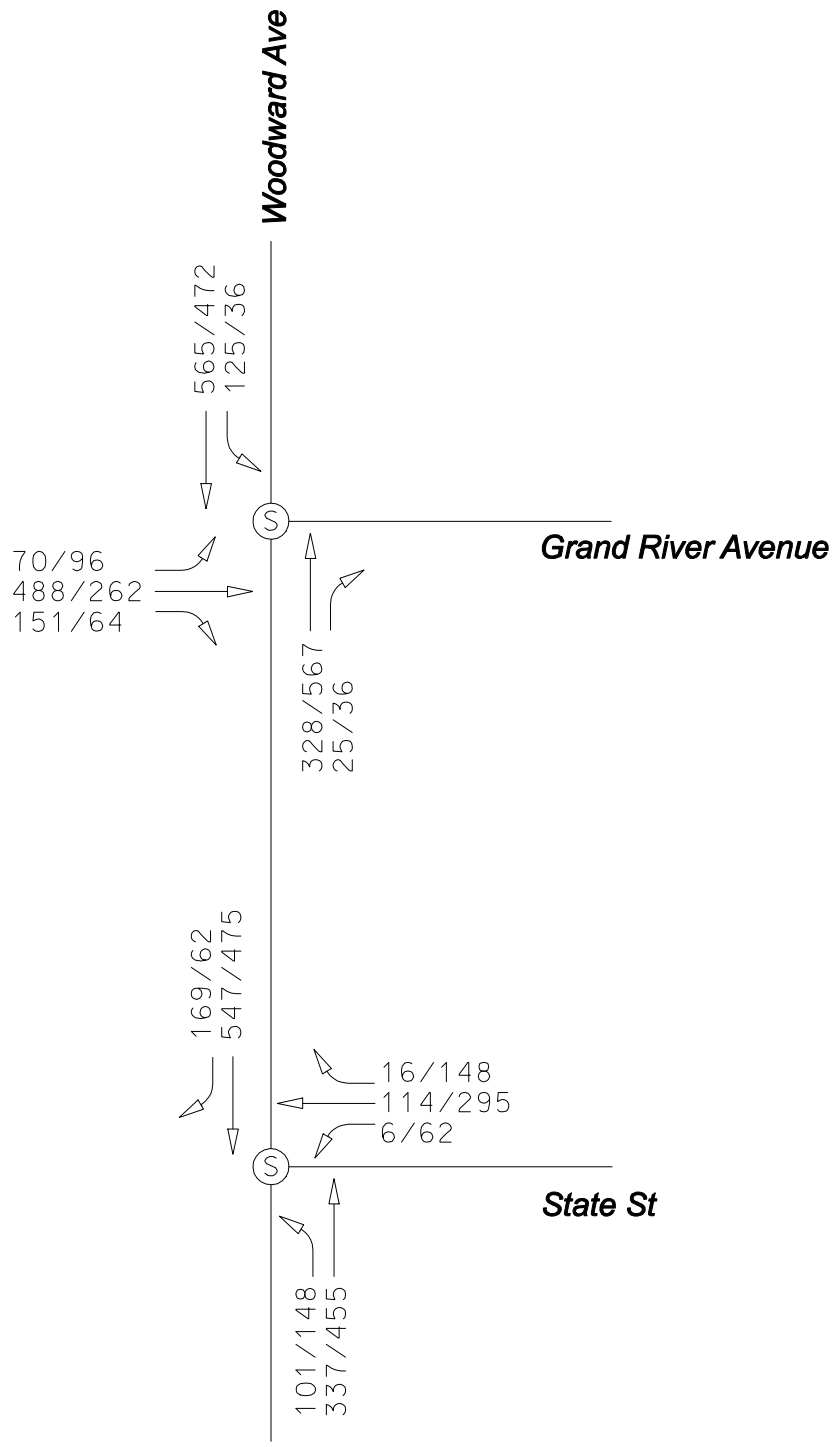
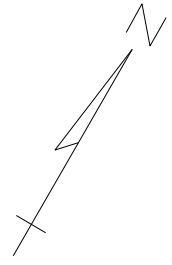


LEGEND

XX/XX = AM/PM Peak Hour Volumes

Ⓢ - Traffic Signal



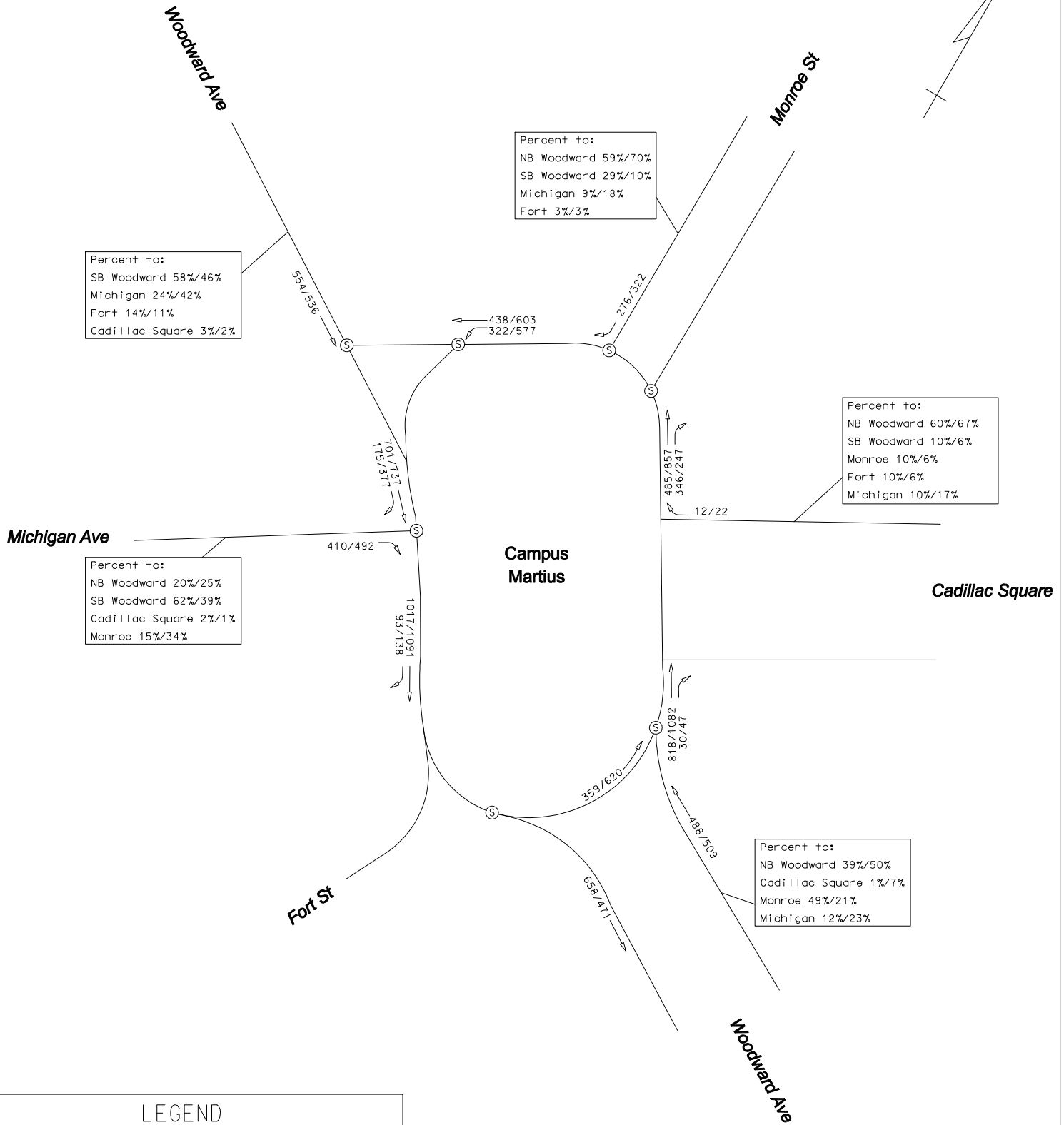
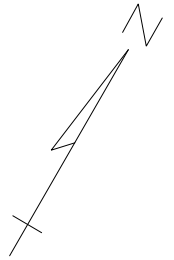


LEGEND
XX/XX = AM/PM Peak Hour Volumes
Ⓢ - Traffic Signal

WOODWARD LRT FEIS

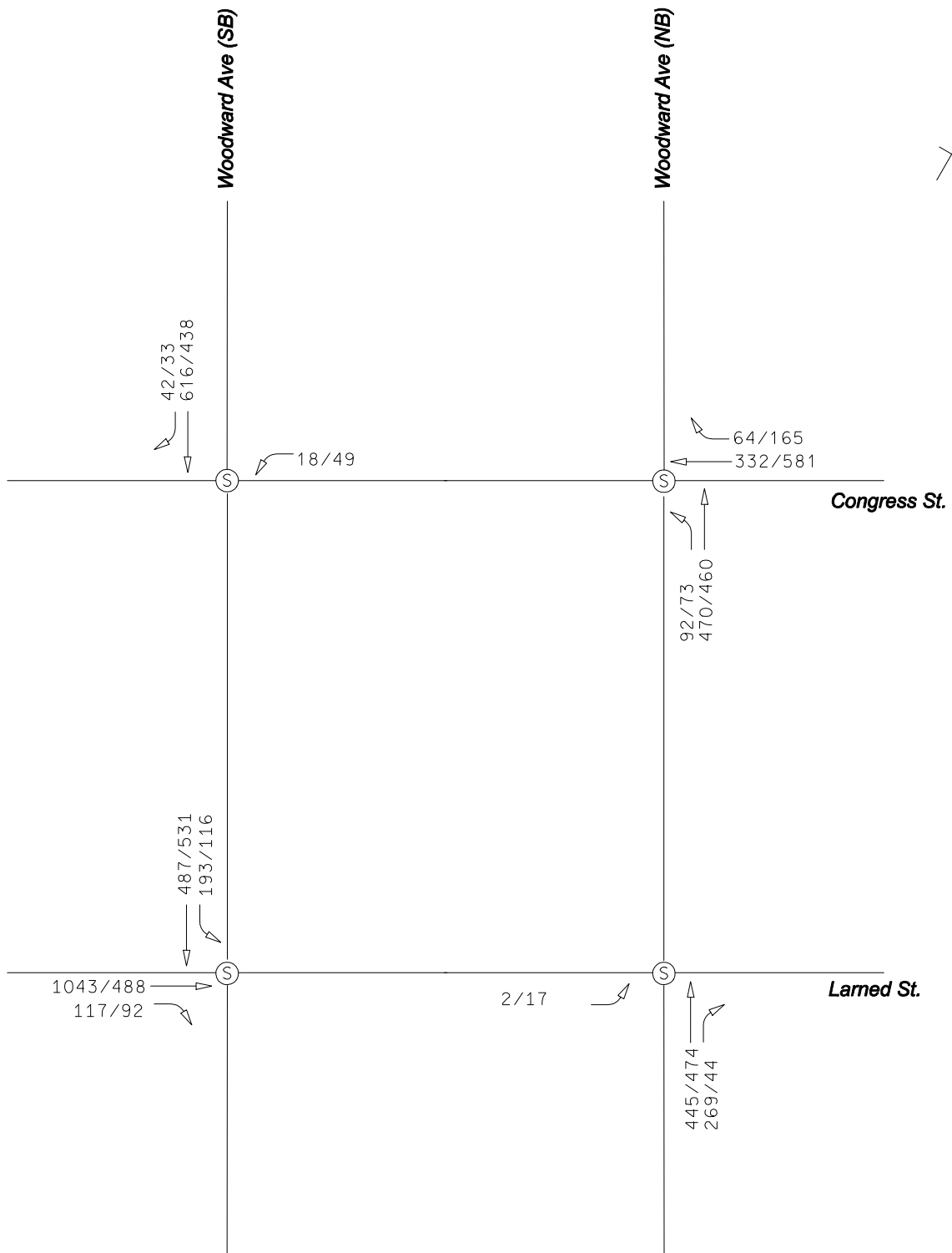
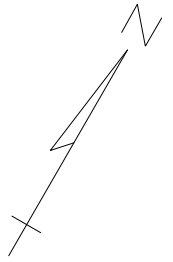
FUTURE 2030 VOLUMES
AM/PM PEAK HOUR PREFERRED ALTERNATIVE

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LEGEND
XX/XX = AM/PM Peak Hour Volumes
Ⓢ - Traffic Signal





LEGEND

XX/XX = AM/PM Peak Hour Volumes

(S) - Traffic Signal

WOODWARD LRT FEIS

**FUTURE 2030 VOLUMES
AM/PM PEAK HOUR PREFERRED ALTERNATIVE**



**PARSONS
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2030 AM Peak Hour Level of Service and Delay (seconds per vehicle)
with Woodward Streetcar

Intersection	Level of Service					Delay (seconds per vehicle)				
	NB	SB	EB	WB	TOTAL	NB	SB	EB	WB	TOTAL
Bethune	A	A	C	D	A	1.6	6.9	31.1	53.2	7.4
Lothrop	A	A			A	1.2	1.1			1.1
Grand Blvd	A	B	C	D	C	5.0	18.0	33.4	43.3	25.4
Milwaukee	B	A	D	D	B	19.9	5.9	35.6	45.1	15.1
Baltimore	A	A	D	B	A	2.5	1.7	47.6	13.7	2.6
Piquette/Amsterdam	B	A	C	C	A	15.0	4.8	29.4	31.8	9.8
Antoinette	A	A	A	D	B	6.9	5.2	7.5	36.1	10.7
Palmer	A	A	C	D	A	3.2	4.6	29.0	40.0	6.7
Ferry St	A	A		A	A	9.3	2.6		0.0	4.5
Kirby	A	A	B	C	A	5.5	7.9	18.7	23.9	7.6
Putnam	A	A	B	A	A	2.8	0.7	17.8	6.3	1.9
Warren	A	A	D	D	B	6.2	2.1	36.2	40.7	18.4
Forest	A	A	C		B	9.4	2.5	33.0		12.8
Canfield	B	A	C	C	A	10.3	4.4	31.2	29.3	8.4
Alexandrine	A	A	C	B	A	6.8	3.7	30.8	19.9	6.0
Parsons	A	A	C	A	A	3.6	1.2	31.1	0.0	2.2
Mack/MLK Blvd	C	B	C	C	C	20.7	14.2	32.1	28.4	22.8
Peterboro	A	A	C	C	A	6.7	3.7	28.6	20.2	5.1
Charlotte	A	A	C		A	8.5	1.5	28.9		3.9
Sibley/Adelaide	B		C	B	B	10.9		28.1	12.2	10.8
Woodward south of Cadillac	C	A			B	22.7	4.7			11.7
Cadillac Square	B		A		A	15.1		3.7		4.4
Monroe			A	C	A			0.8	25.8	8.4
SBI75service Dr	A	B		C	B	2.2	15.8		34.6	16.0
NBI75Service Dr	A	A	C		A	8.6	2.2	29.9		5.1
Montcalm	A	A	C	C	A	7.8	2.1	22.0	29.4	5.2
Elizabeth	A	A	C		A	5.1	3.8	25.3		4.6
Adams	A	B		B	B	7.1	17.3		19.2	14.7
Park	A	A	C		B	5.6	9.2	27.7		13.2
John R	A	A		C	A	6.1	7.7		34.9	9.3
Grand River	A	B	C		B	9.1	13.6	22.5		15.8
State	A	A		C	A	9.7	7.4		21.4	9.8
Larned	D	C	A		C	41.7	30.8	3.6		21.6
Congress	B	B		C	B	16.3	17.7		24.3	19.3
Woodward north of Michigan		B		A	B		11.9		9.0	10.3
Michigan		B		A	A		15.0		0.5	5.1

NB=Northbound, SB=Southbound, EB=Eastbound, WB=Westbound

2030 PM Peak Hour Level of Service and Delay (seconds per vehicle)
with Woodward Streetcar

Intersection	Level of Service					Delay (seconds per vehicle)				
	NB	SB	EB	WB	TOTAL	NB	SB	EB	WB	TOTAL
Bethune	A	A	D	D	A	2.5	6.8	41.3	42.1	7.6
Lothrop	A	A			A	2.3	0.9			1.7
Grand Blvd	A	B	D	D	C	4.9	15.8	39.7	40.7	21.4
Milwaukee	B	B	D	D	B	16.4	14.1	39.0	35.5	19.7
Baltimore	C	A	D	D	C	31.4	1.5	49.4	46.1	23.9
Piquette/Amsterdam	B	A	D	D	B	12.9	2.7	45.3	41.8	11.8
Antoinette	A	B	A	C	B	5.3	17.2	6.1	34.4	13.0
Palmer	A	A	D	C	A	1.0	8.1	52.6	27.7	9.6
Ferry St	A	A		A	A	9.2	3.6		0.0	7.0
Kirby	A	A	C	C	A	7.1	7.8	22.7	26.7	8.4
Putnam	A	B	C	B	A	2.5	11.2	23.0	12.5	7.2
Warren	B	B	C	C	C	11.9	13.5	26.2	32.5	20.4
Forest	A	A	C		B	4.2	2.5	33.4		10.1
Canfield	A	B	C	C	B	6.5	17.8	30.7	31.8	14.9
Alexandrine	A	B	C	C	B	5.4	12.0	27.4	21.5	11.1
Parsons	B	A	C	A	B	11.2	9.2	30.3	0.0	12.2
Mack/MLK Blvd	A	C	C	C	C	8.5	23.4	27.8	29.3	23.4
Peterboro	A	A	C	B	A	4.2	2.3	31.3	16.1	4.2
Charlotte	B	A	C		A	12.4	1.0	24.3		7.2
Sibley/Adelaide	B		C	A	B	15.7		29.0	8.1	13.9
Woodward south of Cadillac	C	A			B	22.2	9.8			14.8
Cadillac Square	C		B		B	26.5		12.9		13.6
Monroe			A	B	A			5.8	16.4	8.9
SBI75Service Dr	A	C		C	B	1.8	20.3		29.2	15.6
NBI75Service Dr	A	A	C		A	8.0	6.8	30.9		9.7
Montcalm	A	A	C	C	A	9.9	3.9	27.9	21.6	8.1
Elizabeth	A	A	C		A	4.5	2.6	20.3		4.2
Adams	B	C		C	B	14.7	20.3		20.0	17.7
Park	A	A	C		B	4.7	7.8	32.7		14.8
John R	A	A		C	A	3.2	2.6		28.1	8.3
Grand River	B	B	C		B	10.8	10.6	20.2		13.2
State	A	A		C	A	8.1	4.8		21.4	9.1
Larned	C	B	B		B	26.4	19.5	13.8		19.5
Congress	B	B		C	C	15.8	16.1		32.1	23.5
Woodward north of Michigan		B		B	B		12.2		10.0	10.9
Michigan		B		A	A		14.5		0.6	5.8

NB=Northbound, SB=Southbound, EB=Eastbound, WB=Westbound