

**V. APPENDICES**

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

INTERSECTION NAME	COUNT DATE	AM CLV	PM CLV	LATR STANDARD	POLICY AREA
16th St at 2nd Ave/Elkhart	6/8/2004	906	749	1600	Silver Spring/Takoma Park
16th St at Spring St	4/19/2005	700	943	1600	Silver Spring/Takoma Park
2nd Ave at Apple Ave/Cameron St	12/13/2005	626	648	1800	Silver Spring CBD
355-Somerset Ter	4/27/2005	779	830	1800	Friendship Heights
Arcola Ave at Kemp Mill Rd	5/11/2004	1020	1290	1600	Kensington/Wheaton
Arlington Rd at Bethesda Ave	10/4/2006	954	970	1800	Bethesda CBD
Arlington Rd at Edgemoor Ln	3/21/2007	597	823	1800	Bethesda CBD
Arlington Rd at Elm St	10/12/2006	712	892	1800	Bethesda CBD
Arlington Rd at Little Falls Pkwy	10/31/2003	420	552	1600	Bethesda/Chevy Chase
Arlington Rd at Montgomery Ln	3/28/2007	405	656	1800	Bethesda CBD
Bel Pre Rd at Beaverwood Dr	5/30/2006	876	936	1475	Aspen Hill
Bel Pre Rd at Homecrest Dr	6/1/2006	1252	842	1475	Aspen Hill
Bickerstaff/Diamondback/Story	9/7/2005	681	635	1450	Gaithersburg City
Bonifant Rd at Pebblestone Dr	3/10/2005	1325	1240	1450	Cloverly
Bou Ave at Chapman Ave	11/1/2005	535	721	1550	North Bethesda
Bradley Blvd at Arlington Rd	10/4/2006	932	1092	1800	Bethesda CBD
Bradley Blvd at Fairfax	10/12/2006	671	1098	1800	Bethesda CBD
Bradley Blvd at Fernwood Rd	12/8/2005	1211	1455	1600	Bethesda/Chevy Chase
Bradley Blvd at Goldsboro Rd	6/10/2003	1052	1091	1600	Bethesda/Chevy Chase
Bradley Blvd at Hill/Leland	10/12/2006	628	860	1800	Bethesda CBD
Bradley Blvd at Huntington Pkwy	6/11/2003	980	1321	1600	Bethesda/Chevy Chase
Briggs Chaney Rd at Automobile/Castle	10/18/2005	889	1244	1475	Fairland/White Oak
Briggs Chaney Rd at Fairdale Rd	11/16/2006	847	791	1475	Fairland/White Oak
Briggs Chaney Rd at Old Columbia Pk	11/14/2006	1531	1209	1475	Fairland/White Oak
Broad-Calv-Cherryhill	9/6/2007	1498	1462	1475	Fairland/White Oak
Burtonsville Blv at Burtonsville Xing SC	6/2/2004	1628	1310	1350	Patuxent
Calverton Blvd at Galway Dr	9/6/2007	1336	977	1475	Fairland/White Oak
Capitol View Ave at Forest Glen/Seminary	2/12/2004	937	900	1600	Kensington/Wheaton
Carroll Ave (MD 195) at Tulip Ave	8/5/2004	512	553	1600	Silver Spring/Takoma Park
Cedar St at Pershing Ln	6/4/2003	304	422	1800	Silver Spring CBD
Cherry Hill Rd at Plum Orch/Clover Patch	8/30/2007	1074	967	1475	Fairland/White Oak
Cherry Hill Rd at Prosperity Dr	9/5/2007	1019	1011	1475	Fairland/White Oak
Clopper Rd at Great Seneca Hwy	3/30/2004	1053	1169	1425	Germantown West
Clopper Rd at Hopkins Ln	11/19/2003	1039	751	1425	Germantown West
Clopper Rd at Kingsview Rd	2/5/2004	962	1037	1425	Germantown West
Clopper Rd at Kingsview Village Dr	9/13/2006	944	943	1425	Germantown West
Clopper Rd at Longdraft Rd	3/16/2004	914	1069	1450	North Potomac
Clopper Rd at Mateney Rd	3/30/2004	1041	1026	1425	Germantown West
Clopper Rd at Metropolitan Grove Rd	4/19/2005	819	1069	1450	Gaithersburg City
Clopper Rd at Quince Orchard Rd	3/4/2004	1350	1152	1450	Gaithersburg City
Clopper Rd at Watkins Mill/Pheasant	3/11/2004	726	1017	1450	Gaithersburg City
Colesville Rd at 2nd/Wayne	9/25/2007	964	835	1800	Silver Spring CBD
Colesville Rd at Dale Dr	4/7/2005	1464	1453	1600	Silver Spring/Takoma Park
Colesville Rd at East West Hwy	6/2/2004	1022	1061	1800	Silver Spring CBD
Colesville Rd at Fenton St	9/19/2006	943	1038	1800	Silver Spring CBD
Colesville Rd at Franklin Ave	4/13/2005	1670	1502	1600	Silver Spring/Takoma Park
Colesville Rd at Georgia Ave	9/26/2006	1378	1049	1800	Silver Spring CBD
Colesville Rd at Sligo Crk Pkwy/St Andre	3/6/2008	1508	1624	1600	Silver Spring/Takoma Park
Colesville Rd at Spring St	9/20/2006	1123	1248	1800	Silver Spring CBD
Colesville Rd at University Blvd (N)	9/13/2006	1589	1434	1600	Kensington/Wheaton

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Colesville Rd at University Blvd (S)	9/13/2006	1672	1492	1600	Kensington/Wheaton
Columbia Pike at Blackburn Rd	12/6/2006	1484	1448	1350	Patuxent
Columbia Pike at Burnt Mills Ave	10/7/2004	1374	1246	1475	Fairland/White Oak
Columbia Pike at Fairland Rd	9/6/2007	1636	1604	1475	Fairland/White Oak
Columbia Pike at Greencastle Rd	11/15/2006	1607	1575	1475	Fairland/White Oak
Columbia Pike at Industrial Pkwy	9/5/2007	1061	1365	1475	Fairland/White Oak
Columbia Pike at Lockwood Dr	10/26/2004	1699	1374	1475	Fairland/White Oak
Columbia Pike at Milestone/Stewart	8/30/2007	986	1520	1475	Fairland/White Oak
Columbia Pike at Musgrove Rd	9/13/2007	1265	1279	1475	Fairland/White Oak
Columbia Pike at Prelude Dr	3/21/2006	1362	1406	1475	Fairland/White Oak
Columbia Pike at Southwood	3/5/2008	1601	1521	1600	Kensington/Wheaton
Columbia Pike at Stewart/NB Slip Ramp	1/29/2003	1318	1371	1475	Fairland/White Oak
Columbia Pike at Tech Rd	9/5/2007	1192	1411	1475	Fairland/White Oak
Connecticut Ave at Adams	5/31/2007	926	885	1600	Kensington/Wheaton
Connecticut Ave at Aspen Hill Rd	6/1/2006	1446	1417	1475	Aspen Hill
Connecticut Ave at Bel Pre Rd	6/1/2006	1069	1227	1475	Aspen Hill
Connecticut Ave at Bradley Ln	3/17/2004	1516	1577	1600	Bethesda/Chevy Chase
Connecticut Ave at Chevy Chase Lake Dr	4/28/2004	950	1080	1600	Bethesda/Chevy Chase
Connecticut Ave at Denfield	2/12/2004	1273	1173	1600	Kensington/Wheaton
Connecticut Ave at Dunlop St	2/2/2006	1025	999	1600	Bethesda/Chevy Chase
Connecticut Ave at East West Hwy	3/29/2006	1831	1829	1600	Bethesda/Chevy Chase
Connecticut Ave at I-495 (N)	3/9/2004	1283	1245	1600	Kensington/Wheaton
Connecticut Ave at I-495 (S)	3/10/2004	1515	1100	1600	Bethesda/Chevy Chase
Connecticut Ave at Independence	10/8/2002	1063	880	1475	Aspen Hill
Connecticut Ave at Jones Bridge Rd	6/6/2007	1731	2017	1600	Bethesda/Chevy Chase
Connecticut Ave at Knowles Ave	9/4/2002	1433	1274	1600	Kensington/Wheaton
Connecticut Ave at Manor Rd	4/27/2004	1324	1299	1600	Bethesda/Chevy Chase
Connecticut Ave at Perry	2/11/2004	1188	1018	1600	Kensington/Wheaton
Connecticut Ave at Randolph Rd	3/3/2004	1631	1550	1600	Kensington/Wheaton
Connecticut Ave at Raymond/Rosemary	1/30/2007	1201	806	1600	Bethesda/Chevy Chase
Connecticut Ave at Saul Rd	2/5/2004	1002	990	1600	Kensington/Wheaton
Connecticut Ave at University Blvd	10/18/2005	1335	974	1600	Kensington/Wheaton
Connecticut Ave at Veirs Mill Rd	6/6/2007	1607	1535	1600	Kensington/Wheaton
Connecticut Ave at Washington St	5/26/2005	1034	819	1600	Kensington/Wheaton
Connecticut Ave at Weller Rd	12/7/2004	1286	1175	1600	Kensington/Wheaton
Crabbs Branch Way at Indianola Dr	4/25/2006	1277	1168	1800	Shady Grove
Dale Dr at Wayne Ave	4/21/2005	809	965	1600	Silver Spring/Takoma Park
Darnestown Rd at Beallsville Rd	10/5/2005	989	892	1350	Poolesville
Darnestown Rd at Darnestown-Germantn Rd	10/5/2005	1291	1060	1350	Darnestown/Travilah
Darnestown Rd at Glen Mill Rd	9/27/2007	1124	1038	1500	Rockville City
Darnestown Rd at Muddy Branch Rd	10/23/2007	1697	1250	1450	North Potomac
Darnestown Rd at Potomac Valley Drwy	10/9/2007	862	722	1450	Gaithersburg City
Darnestown Rd at Quince Orchard HS	10/6/2005	744	832	1450	North Potomac
Darnestown Rd at Quince Orchard Rd	10/2/2007	1311	1123	1450	North Potomac
Darnestown Rd at Riffle Ford Rd	11/9/2004	1558	1769	1450	North Potomac
Darnestown Rd at Seneca Rd (MD 112)	2/9/2006	1152	1160	1350	Darnestown/Travilah
Darnestown Rd at Shady Grove Rd	9/11/2007	1098	794	1500	Rockville City
Darnestown Rd at Travilah Rd	9/27/2007	1002	1330	1450	North Potomac
Darnestown Rd at Tschiffely Square Rd	10/2/2007	1202	997	1450	North Potomac
Darnestown-Germantown Rd at Clopper Rd	9/13/2006	1044	1361	1425	Germantown West
Darnestown-Germantown Rd at Middlebrook	10/23/2007	1256	1423	1600	Germantown Town Center
Darnestown-Germantown Rd at Observation	3/29/2007	942	1065	1425	Germantown East

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Darnestown-Germantown Rd at Wisteria Dr	10/18/2007	894	1356	1600	Germantown Town Center
Deer Park Dr at Railroad Ave	5/6/2003	1060	1034	1475	Derwood
Democracy Blvd at Falls Rd/S Glen Rd	12/9/2003	1390	1204	1450	Potomac
Democracy Blvd at Fernwood Rd	3/14/2006	1185	1348	1550	North Bethesda
Democracy Blvd at I-270	6/3/2004	1184	1371	1450	Potomac
Democracy Blvd at Rockledge Dr	4/21/2005	724	1013	1550	North Bethesda
Democracy Blvd at Seven Locks Rd	10/12/2005	1365	1278	1450	Potomac
Democracy Blvd at Westlake Terr	5/24/2005	835	869	1450	Potomac
E Gude Dr at Calhoun Dr	10/27/2005	1175	1084	1475	Derwood
E Gude Dr at Crabbs Branch/Cecil	10/27/2005	1395	1135	1475	Derwood
E Gude Dr at Southlawn Ln	9/28/2004	1545	1211	1500	Rockville City
E Randolph Rd at Fairland Rd/Octagon La	6/1/2006	1081	1357	1475	Fairland/White Oak
E Randolph Rd at Old Columbia Pike	9/13/2007	903	1080	1475	Fairland/White Oak
E Randolph Rd at Serpentine Way	9/13/2007	718	873	1475	Fairland/White Oak
E Randolph Rd at Tamarack Ln	10/29/2003	633	589	1475	Fairland/White Oak
E Wayne Ave at Flower Ave	5/18/2005	861	954	1600	Silver Spring/Takoma Park
East Diamond Ave at Summit Ave	4/24/2003	840	1051	1450	Gaithersburg City
East West Hwy at Newell/Blair Mill	12/14/2005	745	838	1800	Silver Spring CBD
East-West Hwy at 16th St	12/6/2006	1625	1669	1600	Silver Spring/Takoma Park
East-West Hwy at Blair Park Plz/NOAA	12/6/2006	489	541	1800	Silver Spring CBD
East-West Hwy at Chelton	4/19/2006	1147	690	1800	Bethesda CBD
East-West Hwy at Grubb Rd	2/6/2007	1203	1047	1600	Silver Spring/Takoma Park
East-West Hwy at Meadowbrook Ln	2/13/2002	1091	1268	1600	Silver Spring/Takoma Park
East-West Hwy at Montgomery Ave	4/19/2006	1082	678	1800	Bethesda CBD
East-West Hwy at Pearl St	4/19/2006	882	734	1800	Bethesda CBD
East-West Hwy at Sundale/Washington	9/15/2005	922	851	1600	Silver Spring/Takoma Park
East-West Hwy at Waverly	3/21/2007	786	781	1800	Bethesda CBD
Edgemoor Ln at Woodmont Ave	1/31/2007	912	734	1800	Bethesda CBD
Ethan Allen Ave (MD 410) at Carroll Ave	12/21/2005	1251	774	1600	Silver Spring/Takoma Park
Executive Blvd at Marinelli Rd	3/10/2005	376	569	1800	White Flint
Executive Blvd at Nicholson Ln	3/10/2005	755	751	1800	White Flint
Fairland Rd at Old Columbia Pike	9/6/2007	1336	1386	1475	Fairland/White Oak
Falls Rd at Bells Mill Rd	5/29/2003	885	995	1450	Potomac
Falls Rd at Dunster/Falls Chapel	3/15/2007	1115	957	1500	Rockville City
Falls Rd at Kersey	10/18/2001	1068	1009	1500	Rockville City
Falls Rd at Tuckerman Ln/Falls Chapel	3/7/2007	978	1006	1450	Potomac
Falls Rd at Wootton Pkwy	11/8/2006	1313	1203	1500	Rockville City
Father Hurley Blvd at Crystal Rock Dr	1/11/2007	984	956	1425	Germantown West
Father Hurley Blvd at Middlebrook Rd	5/17/2006	1102	1139	1425	Germantown West
Fenton St at Bonifant St	9/19/2006	684	849	1800	Silver Spring CBD
Fenton St at Burlington Ave	3/3/2005	1169	1046	1800	Silver Spring CBD
Fenton St at Cameron St	11/16/2005	473	644	1800	Silver Spring CBD
Fenton St at Ellsworth Ln	9/13/2006	419	678	1800	Silver Spring CBD
Fenton St at Silver Spring Ave	4/13/2005	711	903	1800	Silver Spring CBD
Fenton St at Sligo Ave	1/26/2005	988	1087	1800	Silver Spring CBD
Fenton St at Thayer Ave	9/13/2006	719	878	1800	Silver Spring CBD
Fenton St at Wayne Ave	9/14/2006	1090	1060	1800	Silver Spring CBD
Fernwood Rd at Rock Spring Dr/Marriott	3/9/2006	646	820	1550	North Bethesda
Fernwood Rd at Rockledge Dr/Westlake Ter	3/9/2006	857	838	1550	North Bethesda
Fields Rd at Rio Blvd	9/13/2005	439	1029	1450	R&D Village
Fields Rd at Washingtonian Blvd	9/14/2005	455	747	1450	R&D Village
First St at Baltimore Rd	1/13/2005	1193	1602	1500	Rockville City

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Frederick Ave at Education Blvd	10/27/2004	1324	944	1450	Gaithersburg City
Frederick Ave at Plummer Dr	12/7/2005	999	959	1425	Germantown East
Frederick Ave at Travis	10/13/2004	1056	1212	1450	Gaithersburg City
Frederick Rd (MD 355) at King Farm Blvd	3/6/2008	1556	2021	1800	Shady Grove
Frederick Rd (MD 355) at Lockheed / IBM	11/16/2004	991	876	1450	Gaithersburg City
Frederick Rd (MD 355) at Milestone CtrS	10/14/2004	1054	955	1425	Germantown East
Frederick Rd at Chestnut St	9/30/2004	1260	1204	1450	Gaithersburg City
Frederick Rd at Christopher St	11/9/2004	1237	1566	1450	Gaithersburg City
Frederick Rd at Clarksburg Rd	5/10/2006	1362	1482	1425	Clarksburg
Frederick Rd at Darnestown-Germantown Rd	3/5/2008	1670	1479	1425	Germantown East
Frederick Rd at Deer Park Dr	3/10/2004	1381	1192	1475	Derwood
Frederick Rd at Gunners Branch Rd	10/19/2004	940	937	1425	Germantown East
Frederick Rd at Henderson Corner Rd	11/4/2004	1088	854	1425	Germantown East
Frederick Rd at Lakeforest/Perry	3/10/2004	995	974	1450	Gaithersburg City
Frederick Rd at Montgomery Village Ave	5/5/2005	1560	1427	1450	Gaithersburg City
Frederick Rd at Newcut Rd	5/23/2006	1000	1034	1425	Clarksburg
Frederick Rd at Odenhal Ave	11/10/2004	1049	1372	1450	Gaithersburg City
Frederick Rd at Old Hundred Rd (MD 109)	10/12/2004	708	613	1350	Goshen
Frederick Rd at Redland Rd	10/19/2004	1542	1418	1800	Shady Grove
Frederick Rd at Ridge Rd	3/29/2007	1036	1496	1425	Germantown East
Frederick Rd at Shady Grove Rd	3/10/2005	1649	1497	1800	Shady Grove
Frederick Rd at Shakespeare Blvd	4/15/2004	1269	1018	1425	Germantown East
Frederick Rd at Solid Waste Drwy	9/21/2004	1280	1102	1800	Shady Grove
Frederick Rd at Stringtown Rd	5/18/2006	1289	1239	1425	Clarksburg
Georgia Ave at 16th St	6/2/2005	1075	1270	1600	Silver Spring/Takoma Park
Georgia Ave at Arcola Ave	2/23/2006	1231	1471	1600	Kensington/Wheaton
Georgia Ave at Aspen Hill Rd	6/6/2006	1018	1130	1475	Aspen Hill
Georgia Ave at August Dr	11/19/2003	1221	1002	1600	Kensington/Wheaton
Georgia Ave at Bel Pre Rd	6/1/2006	1530	1530	1475	Aspen Hill
Georgia Ave at Blueridge	11/28/2007	1114	1206	1800	Wheaton CBD
Georgia Ave at Bonifant St	9/26/2007	864	876	1800	Silver Spring CBD
Georgia Ave at Cameron St	11/16/2005	1081	866	1800	Silver Spring CBD
Georgia Ave at Columbia Blvd/Seminary Ln	5/10/2005	1631	1542	1600	Silver Spring/Takoma Park
Georgia Ave at Connecticut Ave	5/31/2006	1377	1539	1475	Aspen Hill
Georgia Ave at Dennis Ave	6/7/2007	1447	1437	1600	Kensington/Wheaton
Georgia Ave at East-West/Burlington/13th	12/7/2006	1471	1190	1800	Silver Spring CBD
Georgia Ave at Emory Ln	6/1/2006	1227	1461	1450	Olney
Georgia Ave at Forest Glen Rd	6/6/2007	1553	1377	1600	Kensington/Wheaton
Georgia Ave at Glenallen Ave	1/9/2003	963	1232	1800	Glenmont
Georgia Ave at Gold Mine Rd	3/15/2007	855	814	1450	Olney
Georgia Ave at Hathaway Dr	12/8/2004	1142	940	1600	Kensington/Wheaton
Georgia Ave at Hewitt Ave	1/12/2005	807	876	1600	Kensington/Wheaton
Georgia Ave at Hines/Prince Phillip	3/6/2007	1221	1145	1450	Olney
Georgia Ave at I-495 ramps	11/20/2003	1142	1206	1600	Kensington/Wheaton
Georgia Ave at International	12/18/2003	931	1012	1475	Aspen Hill
Georgia Ave at King William Dr	12/9/2003	1192	1095	1450	Olney
Georgia Ave at Layhill Rd	9/15/2005	1200	1071	1800	Glenmont
Georgia Ave at MD 108	3/15/2007	1337	1251	1450	Olney
Georgia Ave at Morningwood/Spartan	1/8/2002	1069	1293	1450	Olney
Georgia Ave at New Hampshire Ave	2/14/2006	1457	1356	1350	Patuxent
Georgia Ave at Norbeck Rd	6/1/2006	1703	1567	1475	Aspen Hill
Georgia Ave at Old Baltimore Rd	3/8/2007	1487	1077	1450	Olney

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Georgia Ave at Plyers Mill Rd	11/18/2003	1626	1248	1600	Kensington/Wheaton
Georgia Ave at Prince Phillip/Queen Eliz	3/8/2007	1158	1104	1450	Olney
Georgia Ave at Randolph Rd	2/23/2006	2069	1910	1800	Glenmont
Georgia Ave at Reedie Dr	11/28/2007	1032	1184	1800	Wheaton CBD
Georgia Ave at Rossmoor Ln	6/7/2006	1052	934	1475	Aspen Hill
Georgia Ave at Seminary	4/7/2005	1462	1374	1600	Silver Spring/Takoma Park
Georgia Ave at Shorefield Ln	2/23/2006	1066	1244	1600	Kensington/Wheaton
Georgia Ave at Sligo Ave	9/20/2007	719	975	1800	Silver Spring CBD
Georgia Ave at Spring St	11/17/2005	1176	1080	1800	Silver Spring CBD
Georgia Ave at Thayer St	9/26/2007	771	858	1800	Silver Spring CBD
Georgia Ave at University Blvd	11/28/2007	1269	1171	1800	Wheaton CBD
Georgia Ave at Urbana Ln	11/19/2003	783	778	1800	Glenmont
Georgia Ave at Veirs Mill Rd	6/7/2007	1410	1424	1800	Wheaton CBD
Georgia Ave at Wayne Ave	9/25/2007	1028	1171	1800	Silver Spring CBD
Georgia Ave at Windham Ln	6/6/2007	1211	1247	1800	Wheaton CBD
Germantown Rd at Dawson Farm Rd	2/14/2002	1244	1108	1425	Germantown West
Goshen Rd at Centerway Rd	9/19/2002	1214	1212	1425	Montgomery Village/Airpark
Goshen Rd at E Village Ave	3/25/2004	1025	891	1425	Montgomery Village/Airpark
Goshen Rd at Snouffer School/Wightman	1/4/2006	1041	1366	1425	Montgomery Village/Airpark
Goshen Rd at Warfield Rd	3/25/2004	1078	1105	1425	Montgomery Village/Airpark
Goshen Rd/N Summit at Odenhal Ave	5/9/2006	983	1225	1425	Montgomery Village/Airpark
Great Seneca Hwy at Clopper Mill/Richter	12/14/2004	1082	836	1425	Germantown West
Great Seneca Hwy at Darnestown Rd	9/27/2007	1028	1009	1450	R&D Village
Great Seneca Hwy at Dawson Farm Rd	10/25/2005	608	708	1425	Germantown West
Great Seneca Hwy at Key West Ave	10/3/2007	1227	1114	1450	R&D Village
Great Seneca Hwy at Lakeland Blvd	10/3/2007	1754	1498	1450	Gaithersburg City
Great Seneca Hwy at Mateney Rd (S)	3/30/2006	1094	1335	1425	Germantown West
Great Seneca Hwy at Middlebrook Rd	3/29/2007	980	1224	1425	Germantown West
Great Seneca Hwy at Muddy Branch Rd	3/5/2008	1654	2179	1450	Gaithersburg City
Great Seneca Hwy at Queenstown La	12/14/2004	887	764	1425	Germantown West
Great Seneca Hwy at Sam Eig Hwy	10/10/2007	1240	1348	1450	R&D Village
Great Seneca Hwy at Wisteria Dr	3/29/2006	637	868	1425	Germantown West
Gude Dr at Dover	6/17/2003	1148	1436	1475	Derwood
Hungerford Dr (MD 355) at Campus Dr	10/28/2004	1496	980	1500	Rockville City
Hungerford Dr (MD 355) at Manakee St	10/27/2004	1504	1027	1500	Rockville City
Hungerford Dr at Beall St	10/14/2004	839	965	1500	Rockville City
Hungerford Dr at College Pkwy	10/27/2004	1382	958	1500	Rockville City
Hungerford Dr at Middle Ln/Park Rd	10/21/2004	1352	1370	1500	Rockville City
Hungerford Dr at Monroe Pl/Church St	10/21/2004	1217	1055	1500	Rockville City
Hungerford Dr at N Washington St	7/8/2004	1094	1290	1500	Rockville City
Hungerford Ln (MD 355) at Gude Dr	10/26/2004	1656	1447	1500	Rockville City
Jones Bridge Rd at Manor Rd	11/19/2002	679	676	1600	Bethesda/Chevy Chase
Jones Bridge Rd at Platt Ridge Dr	11/19/2002	773	963	1600	Bethesda/Chevy Chase
Key West Ave at Broschart/Diamondback	10/3/2007	1666	1261	1450	R&D Village
Key West Ave at Darnestown Rd	9/27/2007	1085	1058	1450	North Potomac
Key West Ave at Medical Ctr/Omega Dr	10/2/2007	1313	1359	1450	R&D Village
Key West Ave at Shady Grove Rd	9/25/2007	1391	1640	1500	Rockville City
Key West Ave at W Gude Dr	9/18/2007	942	1304	1500	Rockville City
Knowles Ave at Summit Ave	10/2/2007	1167	1005	1600	Kensington/Wheaton
Layhill Rd at Ednor Rd/Norwood Rd	10/17/2006	1577	1230	1450	Olney
Layhill Rd at Glenallen Ave	9/15/2005	828	980	1600	Kensington/Wheaton
Layhill Rd at Middlevale	3/11/2005	1002	800	1600	Kensington/Wheaton

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Laytonsville Rd at Brink/Sundown	11/2/2006	1422	1433	1350	Goshen
Little Falls Pkwy at Dorset Ave	4/12/2007	690	692	1600	Bethesda/Chevy Chase
Little Falls Pkwy at Hillandale	4/18/2007	695	654	1600	Bethesda/Chevy Chase
Main St Damascus at Woodfield Rd	5/11/2006	599	1113	1400	Damascus
Massachusetts Ave at Biltmore	3/3/2005	1201	856	1600	Bethesda/Chevy Chase
Massachusetts Ave at Cromwell	3/2/2005	675	530	1600	Bethesda/Chevy Chase
Massachusetts Ave at Little Falls Pkwy	4/18/2007	1204	980	1600	Bethesda/Chevy Chase
Massachusetts Ave at Westbard Ave	3/4/2004	940	878	1600	Bethesda/Chevy Chase
MD 108 at Brooke/Meeting House Rd	10/19/2006	1188	1192	1450	Olney
MD 108 at Norwood Rd	9/19/2006	1234	1245	1450	Olney
MD 108 at Spartan	3/8/2007	965	1094	1450	Olney
MD 118 at Aircraft Dr	1/11/2007	880	1080	1600	Germantown Town Center
MD 118 at Crystal Rock Dr	5/16/2006	869	1232	1600	Germantown Town Center
MD 124 at Airpark Rd	3/21/2007	912	832	1425	Montgomery Village/Airpark
MD 124 at Girard	5/12/2004	573	521	1450	Gaithersburg City
MD 124 at I-270 SB Ramp	9/13/2001	808	975	1450	Gaithersburg City
MD 124 at Twinlakes	5/21/2003	765	1363	1450	Gaithersburg City
MD 355 at Cordell	5/17/2005	702	740	1800	Bethesda CBD
MD 355 at Edmondston Dr	10/13/2004	1450	1590	1500	Rockville City
MD 355 at Elm/Waverly	3/27/2007	762	954	1800	Bethesda CBD
MD 355 at Frederick Ave	10/26/2004	1035	1063	1500	Rockville City
MD 355 at Halpine	11/1/2005	1103	1277	1500	Rockville City
MD 355 at Indianola/Watkins Pond	6/6/2007	1462	1248	1500	Rockville City
MD 355 at Middlebrook (N)	4/29/2004	992	1351	1425	Germantown East
MD 355 at Professional	10/20/2004	1232	1184	1450	Gaithersburg City
MD 355 at S Westland	4/7/2005	1006	1147	1475	Derwood
MD 355 at Summit Ave	3/9/2004	1194	1246	1450	Gaithersburg City
MD 355 at Tuckerman (S)	4/27/2005	943	894	1800	Grosvenor
MD 355 at Watkins Mill Rd	3/16/2004	784	1057	1450	Gaithersburg City
MD 355 at Willard/Wisconsin Circle	5/18/2005	998	863	1800	Friendship Heights
MD 355 at Woodmont Ave	2/8/2007	1022	1800	1600	Bethesda/Chevy Chase
Md.28-Hurley	9/22/2004	830	998	1500	Rockville City
Md.28-Research	11/1/2005	941	1307	1500	Rockville City
Md28-I270-Nelson	11/3/2005	964	1371	1500	Rockville City
Midcounty Hwy at Goshen Rd	3/16/2004	1140	1255	1425	Montgomery Village/Airpark
Midcounty Hwy at Montgomery Village Ave	3/9/2004	1110	1553	1425	Montgomery Village/Airpark
Midcounty Hwy at Washington Grove Ln	3/22/2005	1508	1196	1475	Derwood
Midcounty Hwy at Woodfield/Saybrooke	3/16/2004	1150	838	1450	Gaithersburg City
Middlebrook Rd at Crystal Rock Dr	3/29/2007	889	890	1600	Germantown Town Center
Middlebrook Rd at Waring Station Dr	10/28/2004	959	1081	1425	Germantown West
Mont. Village Ave at Chris/Lost Knife	5/9/2006	1037	1454	1425	Montgomery Village/Airpark
Montgomery Ave at Waverly St	3/28/2007	697	1089	1800	Bethesda CBD
Montgomery Ln at East Ln	1/31/2007	446	649	1800	Bethesda CBD
Montgomery Ln at Pearl St	4/19/2006	755	1177	1800	Bethesda CBD
Montgomery Village Ave at Apple Ridge Rd	1/16/2002	752	784	1425	Montgomery Village/Airpark
Montgomery Village Ave at Centerway Rd	9/18/2002	1012	1171	1425	Montgomery Village/Airpark
Montgomery Village Ave at Russell Ave	3/6/2008	962	1755	1450	Gaithersburg City
Montrose Rd at E Jefferson St	6/5/2007	1278	1495	1550	North Bethesda
Montrose Rd at Falls Rd	11/8/2006	678	942	1450	Potomac
Montrose Rd at Farm Haven Dr	3/20/2007	1493	1409	1550	North Bethesda
Montrose Rd at Hitching Post/Monroe	3/20/2007	1354	945	1550	North Bethesda
Montrose Rd at Old Old Georgetown Rd	3/9/2005	713	926	1550	North Bethesda

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Montrose Rd at Seven Locks Rd	11/8/2006	999	860	1450	North Potomac
Montrose Rd at Tildenwood Ln	3/7/2007	1307	1308	1550	North Bethesda
Montrose Rd at Tower Oaks Blvd	11/14/2006	1663	1232	1550	North Bethesda
Montrose Rd at Whites Ford Rd	3/15/2007	813	593	1450	Potomac
Muddy Branch Rd at Diamondback Dr	10/9/2007	1563	1195	1450	Gaithersburg City
Muddy Branch Rd at East Dr	10/10/2007	863	887	1450	Gaithersburg City
Muddy Branch Rd at Festival Shop Ctr Ent	10/10/2007	830	966	1450	Gaithersburg City
Muddy Branch Rd at West Side Dr	10/10/2007	945	817	1450	Gaithersburg City
Muncaster Mill Rd at Avery Rd	4/12/2005	1258	1246	1350	Rock Creek
Muncaster Mill Rd at Bowie Mill Rd	4/12/2005	1314	1263	1350	Rock Creek
Muncaster Mill Rd at Needwood Rd	4/12/2005	1397	1510	1350	Rock Creek
Muncaster Rd at MD 108	6/3/2004	1638	1277	1350	Patuxent
MVA at Lakeforest Mall	11/10/2004	876	999	1425	Montgomery Village/Airpark
New Hampshire Ave at Adelphi/Dilston	1/13/2004	1253	1450	1600	Silver Spring/Takoma Park
New Hampshire Ave at Bonifant/Good Hope	5/25/2004	1476	1227	1450	Cloverly
New Hampshire Ave at Briggs Chaney Rd	2/6/2007	882	892	1450	Cloverly
New Hampshire Ave at Cape May Rd	2/1/2005	1459	1207	1475	Fairland/White Oak
New Hampshire Ave at Chalmers	5/24/2006	1097	1042	1475	Fairland/White Oak
New Hampshire Ave at Columbia Pk Ramps	10/23/2001	1121	1452	1475	Fairland/White Oak
New Hampshire Ave at Ednor Rd	1/30/2007	1160	1213	1450	Cloverly
New Hampshire Ave at I-495/Elton Rd	3/29/2007	1117	1255	1475	Fairland/White Oak
New Hampshire Ave at Lockwood Dr	3/23/2006	1353	1108	1475	Fairland/White Oak
New Hampshire Ave at MD 108	11/30/2006	1226	1223	1350	Patuxent
New Hampshire Ave at Midland Dr	2/3/2005	991	1060	1475	Fairland/White Oak
New Hampshire Ave at Northwest/Michelson	5/31/2006	1045	927	1475	Fairland/White Oak
New Hampshire Ave at Norwood Rd	5/26/2004	1019	1121	1450	Cloverly
New Hampshire Ave at Oakview	1/24/2006	1591	1492	1600	Silver Spring/Takoma Park
New Hampshire Ave at Powder Mill Rd	3/28/2007	1331	1379	1475	Fairland/White Oak
New Hampshire Ave at Schindler/Mahan	5/24/2006	1083	861	1475	Fairland/White Oak
New Hampshire Ave at Spencerville Rd	1/30/2007	979	1053	1450	Cloverly
New Hampshire Ave at Wolf	3/2/2005	1144	1180	1475	Fairland/White Oak
Nicholson Ln at Huff Ct	5/11/2006	618	854	1800	White Flint
Nicholson Ln at Nebel St	9/12/2006	808	1051	1550	North Bethesda
Nicholson Ln at White Flint	5/11/2006	604	1155	1800	White Flint
Nicholson Ln at Woodglen	5/18/2005	554	735	1800	White Flint
Norbeck Rd (MD 28) at Avery Rd	10/12/2005	1815	1629	1500	Rockville City
Norbeck Rd at Baltimore	1/13/2005	937	1390	1475	Aspen Hill
Norbeck Rd at Bauer Dr	10/20/2005	1710	1405	1475	Aspen Hill
Norbeck Rd at Bel Pre Rd	5/31/2006	1834	1251	1475	Aspen Hill
Norbeck Rd at E Gude Dr	10/12/2005	1185	1365	1500	Rockville City
Norbeck Rd at Layhill Rd	6/8/2006	941	861	1450	Cloverly
Norbeck Rd at Muncaster Mill Rd	6/1/2006	1684	1551	1475	Aspen Hill
Norbeck Rd at Norbeck Blvd	5/31/2006	1436	1562	1475	Aspen Hill
Norbeck Rd at Norwood Rd	2/6/2007	1122	910	1450	Cloverly
Norbeck Rd at Owens Glen/Manor Care	10/9/2007	1229	950	1450	North Potomac
Norbeck Rd at Wintergate Dr	5/18/2006	1246	1338	1475	Aspen Hill
Norfolk Ave at St Elmo Ave	11/1/2006	530	629	1800	Bethesda CBD
Odendhal Ave at Lost Knife Rd	5/9/2006	425	874	1450	Gaithersburg City
Odendhal at Russell Ave	5/9/2006	412	744	1450	Gaithersburg City
Old Columbia Pk at Greencastle Rd	11/14/2006	757	623	1475	Fairland/White Oak
Old Columbia Pk at Spencerville Rd	11/15/2006	1062	1332	1350	Patuxent
Old Georgetown Rd at Auburn St	10/4/2006	895	1138	1800	Bethesda CBD

Source: M-NCPPC Intersection Database



Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Old Georgetown Rd at Battery Ln	3/16/2006	1204	1320	1800	Bethesda CBD
Old Georgetown Rd at Beech St	5/5/2007	1373	1304	1600	Bethesda/Chevy Chase
Old Georgetown Rd at Cheshire Ln	3/1/2006	1073	1146	1550	North Bethesda
Old Georgetown Rd at Commerce	1/31/2007	558	773	1800	Bethesda CBD
Old Georgetown Rd at Democracy Blvd	5/25/2006	1352	1308	1550	North Bethesda
Old Georgetown Rd at Edson/Poindexter	3/10/2005	976	1181	1550	North Bethesda
Old Georgetown Rd at Executive Blvd	9/20/2006	0	0	1800	White Flint
Old Georgetown Rd at Huntington Pkwy	2/10/2005	1289	953	1600	Bethesda/Chevy Chase
Old Georgetown Rd at I-270 (N) Ramp	9/20/2006	1165	933	1550	North Bethesda
Old Georgetown Rd at Lone Oak	3/9/2006	1148	1002	1550	North Bethesda
Old Georgetown Rd at Nicholson/Tilden	3/10/2005	1191	1222	1800	White Flint
Old Georgetown Rd at Rock Spring Dr	5/26/2006	1133	1275	1550	North Bethesda
Old Georgetown Rd at South/Greentree	3/30/2006	1137	1251	1600	Bethesda/Chevy Chase
Old Georgetown Rd at Tuckerman Ln	5/26/2005	1746	1391	1550	North Bethesda
Old Georgetown Rd at W Cedar Ln	5/5/2007	1249	1510	1600	Bethesda/Chevy Chase
Old Georgetown Rd at Wilson/Arlington	5/1/2003	1347	1452	1800	Bethesda CBD
Old Georgetown Rd at Woodmont Ave	4/10/2007	929	901	1800	Bethesda CBD
Old G'town Rd (MD 187) at Mid Pike Plz	3/9/2005	633	625	1800	White Flint
Old Georgetown Rd at I-270 (S)	5/25/2005	1214	1163	1550	North Bethesda
Olney-Laytons Rd at Queen Elizabeth Dr	3/14/2007	828	980	1450	Olney
Olney-Laytonsville Rd at Olney Mill Rd	6/3/2004	1017	972	1450	Olney
Olney-Sandy Spg Rd at Old Baltimore Rd	3/1/2007	1366	1021	1450	Olney
Olney-Sandy Sprg Rd at Prince Philip D	3/6/2007	1031	1072	1450	Olney
Olney-Sandy Spring Rd at Doctor Bird Rd	10/18/2006	1025	1188	1450	Olney
Olney-Sandy Spring Rd at Olney Vil. Mart	1/12/2005	995	941	1450	Olney
Olney-Sandy Spring Rd at Sherwood HS	2/12/2002	1205	1163	1350	Patuxent
Parklawn Dr at Boiling Brook Pkwy	9/12/2006	1304	1554	1550	North Bethesda
Parklawn Dr at Braxfield	3/1/2001	784	603	1550	North Bethesda
Parklawn Dr at Twinbrook Pkwy	6/2/2005	1050	1184	1800	Twinbrook
Parklawn Dr at Wilkens (N)	6/2/2005	299	414	1800	Twinbrook
Philadelphia Ave (MD 410) at Carroll Ave	4/12/2005	930	1477	1600	Silver Spring/Takoma Park
Philadelphia Ave (MD 410) at Maple Ave	5/19/2005	693	1102	1600	Silver Spring/Takoma Park
Philadelphia Ave (MD 410) at Takoma Ave	1/26/2005	679	755	1600	Silver Spring/Takoma Park
Piney Branch Rd at Philadelphia Ave	4/20/2005	1244	1704	1600	Silver Spring/Takoma Park
Piney Branch Rd (MD 320) at Ray Dr/TPMS	12/18/2001	841	963	1600	Silver Spring/Takoma Park
Piney Branch Rd at Arliss St	9/20/2005	855	771	1600	Silver Spring/Takoma Park
Piney Branch Rd at Barron St	6/24/2003	1048	1044	1600	Silver Spring/Takoma Park
Piney Branch Rd at Carroll Ave	9/16/2003	706	774	1600	Silver Spring/Takoma Park
Piney Branch Rd at Dale Dr/Devon Rd	1/24/2006	1186	849	1600	Silver Spring/Takoma Park
Piney Branch Rd at Flower Ave	9/15/2005	855	807	1600	Silver Spring/Takoma Park
Piney Branch Rd at Sligo Ave/Hilltop	1/24/2006	1153	1085	1600	Silver Spring/Takoma Park
Pleasant/Shady-Grove/I370	3/5/2003	1277	1017	1800	Shady Grove
Plyers Mill Rd at Metropolitan Ave	9/21/2005	687	866	1600	Kensington/Wheaton
Quince Orchard Rd at Bank/North	2/5/2003	758	1056	1450	Gaithersburg City
Quince Orchard Rd at Longdraft Rd	9/20/2007	669	1017	1450	North Potomac
Quince Orchard Rd at Sioux	10/8/2007	866	1092	1450	Gaithersburg City
Randolph Rd at Colie Dr	5/6/2004	919	949	1600	Kensington/Wheaton
Randolph Rd at Gaynor/Rockinghorse	6/7/2005	1202	1339	1550	North Bethesda
Randolph Rd at Glenallen Ave	9/13/2005	1309	1026	1600	Kensington/Wheaton
Randolph Rd at Kemp Mill Rd	9/13/2005	1263	1270	1600	Kensington/Wheaton
Randolph Rd at Lauderdale	3/6/2001	1388	1663	1550	North Bethesda
Randolph Rd at Locksley	3/14/2006	1196	928	1475	Fairland/White Oak

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Randolph Rd at Maple Ave	3/9/2005	861	1008	1550	North Bethesda
Randolph Rd at Nebel St	3/9/2005	757	1060	1550	North Bethesda
Randolph Rd at New Hampshire Ave	3/14/2006	1491	1794	1475	Fairland/White Oak
Randolph Rd at Parklawn Dr (W)	6/1/2005	1324	1332	1550	North Bethesda
Randolph Rd at Tivoli	9/14/2005	1040	789	1600	Kensington/Wheaton
Randolph Rd at Veirs Mill Rd	9/29/2005	1314	1216	1600	Kensington/Wheaton
Redland Rd at Crabbs Branch Way	6/6/2007	1515	1682	1800	Shady Grove
Redland Rd at Somerville	6/6/2007	741	765	1800	Shady Grove
Ridge Rd at Bethesda Church Rd	10/19/2004	874	1183	1400	Damascus
Ridge Rd at Brink Rd	3/28/2007	1007	1073	1425	Germantown East
Ridge Rd at High Corner St/Shop Ctr	5/23/2007	958	1021	1450	Damascus
Ridge Rd at Kings Valley Rd	6/6/2007	1039	1221	1425	Clarksburg
Ridge Rd at Lewis Dr/Locust Dr	5/16/2006	1437	1000	1400	Damascus
Ridge Rd at Main St (MD 108)	12/14/2005	893	1276	1400	Damascus
Ridge Rd at Observation Dr	3/29/2007	942	1065	1425	Germantown East
Ridge Road at Sweepstakes/Marlboro	9/7/2005	1101	1349	1400	Damascus
River Rd at Beech Tree/Nevis Rd	6/13/2007	1206	1195	1600	Bethesda/Chevy Chase
River Rd at Bradley Blvd	6/8/2006	1398	1293	1450	Potomac
River Rd at Brookside/Ridgefield	11/4/2003	1202	1071	1600	Bethesda/Chevy Chase
River Rd at Congressional/Norwood	6/7/2006	1220	1021	1450	Potomac
River Rd at Counselman	10/3/2002	1417	926	1450	Potomac
River Rd at Goldsboro Rd	10/20/2005	1141	1289	1600	Bethesda/Chevy Chase
River Rd at I-495 (E)	11/7/2002	1703	1503	1600	Bethesda/Chevy Chase
River Rd at Little Falls Pkwy	6/6/2007	1494	1573	1600	Bethesda/Chevy Chase
River Rd at Piney Meetinghouse Rd	11/14/2006	1384	1049	1450	Potomac
River Rd at Royal Dominion/Holton Arms	2/24/2004	1591	1358	1600	Bethesda/Chevy Chase
River Rd at Seven Locks Rd	6/7/2006	1356	1111	1450	Potomac
River Rd at Springfield-Kc	9/19/2006	1160	996	1600	Bethesda/Chevy Chase
River Rd at Whittier/Winston	6/7/2007	1370	1285	1600	Bethesda/Chevy Chase
River Rd at Willard Ln/Greenway	6/8/2004	1003	1191	1600	Bethesda/Chevy Chase
River Rd at Wilson Ln	10/18/2005	1392	1484	1600	Bethesda/Chevy Chase
Rock Spring Dr at Rockledge Dr	3/14/2006	772	819	1550	North Bethesda
Rockledge Blvd at I-270 Off Ramp	3/15/2006	796	651	1550	North Bethesda
Rockledge Blvd at Rockledge/Rock Forest	3/15/2006	772	790	1550	North Bethesda
Rockville Pike (MD 355) at Mid Pike Plz	3/8/2005	992	1335	1800	Grosvenor
Rockville Pike (MD 355) at Pooks Hill Rd	6/8/2004	1621	1923	1600	Bethesda/Chevy Chase
Rockville Pike at Bou Ave	11/1/2005	1123	1288	1550	North Bethesda
Rockville Pike at Congressional Ln	6/3/2004	1108	1538	1500	Rockville City
Rockville Pike at E Jefferson/Veirs Mill	10/26/2004	1438	1305	1500	Rockville City
Rockville Pike at East-West/Old G'town	2/6/2007	1454	1745	1800	Bethesda CBD
Rockville Pike at Edson/White Flint Mall	6/8/2005	1013	1224	1550	North Bethesda
Rockville Pike at Fed Plz / Pike Ctr	11/2/2005	852	1064	1550	North Bethesda
Rockville Pike at Hubbard	11/2/2005	1167	1478	1550	North Bethesda
Rockville Pike at Jones Bridge/Center	12/22/2005	1306	1536	1600	Bethesda/Chevy Chase
Rockville Pike at Marinelli Rd	3/8/2005	1067	998	1800	White Flint
Rockville Pike at Montrose/Randolph	3/8/2005	1501	1452	1550	North Bethesda
Rockville Pike at Nicholson Ln	5/10/2006	1236	1478	1800	White Flint
Rockville Pike at Old Georgetown Rd	9/20/2006	1152	1211	1800	White Flint
Rockville Pike at South/Wood/NNMC	3/12/2008	1198	1134	1600	Bethesda/Chevy Chase
Rockville Pike at Strathmore Ave	4/5/2005	1235	1493	1550	North Bethesda
Rockville Pike at Tuckerman Ln (N)	5/10/2005	1249	1586	1800	Grosvenor
Rockville Pike at W Cedar Ln	9/7/2006	1809	1996	1600	Bethesda/Chevy Chase

Source: M-NCPPC Intersection Database

Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

Rockville Pike at Wilson/NIH	6/10/2004	1395	1421	1600	Bethesda/Chevy Chase
Rockville Pike at Woodmont CC/Best Buy	6/8/2004	1229	1155	1500	Rockville City
Rockville Pk at Grosvenor/Beach	5/18/2004	1244	977	1800	Grosvenor
Rockville Pk at Security Ln	3/8/2005	922	994	1550	North Bethesda
Rockville Pk at Templeton Pl	6/8/2004	1272	1214	1500	Rockville City
Rockville-Pk/Twinbrook/Rollins	11/2/2005	1131	1450	1500	Rockville City
Sam Eig Hwy at Diamondback Dr	10/10/2007	933	1217	1450	R&D Village
Sam Eig Hwy at Fields Rd	10/11/2007	1456	1297	1450	R&D Village
Sandy Spring Rd at Mcknew	9/10/2003	1401	1260	1350	Patuxent
Second St at Fenwick Ln	5/19/2005	271	447	1800	Silver Spring CBD
Seminary Rd at 2nd Ave/Linden Ln	3/25/2004	741	1054	1600	Silver Spring/Takoma Park
Seven Locks Rd and Wootton Pkwy	11/14/2006	1144	1116	1500	Rockville City
Seven Locks Rd at Bells Mill Rd	10/12/2005	1122	911	1450	Potomac
Seven Locks Rd at Gainsborough	3/13/2007	1350	1290	1450	Potomac
Seven Locks Rd at Tuckerman Ln	11/9/2006	1499	1487	1450	Potomac
Shady Grove Rd and Crabbs Branch Way	3/8/2005	1203	1115	1800	Shady Grove
Shady Grove Rd at Corporate Dr	11/30/2005	1097	1467	1450	R&D Village
Shady Grove Rd at Epsilon/Tupelo	4/6/2005	1518	1359	1475	Derwood
Shady Grove Rd at I-270 Ramp NB/Redland	12/20/2005	945	687	1500	Rockville City
Shady Grove Rd at I-270 Ramp SB/Fields	12/8/2005	864	925	1500	Rockville City
Shady Grove Rd at Medical Center Dr	9/26/2007	867	1092	1500	Rockville City
Shady Grove Rd at Metro (N)	4/5/2005	1276	1298	1800	Shady Grove
Shady Grove Rd at Metro (S)	4/5/2005	1467	1375	1800	Shady Grove
Shady Grove Rd at Midcounty Hwy	3/5/2008	1894	1309	1475	Derwood
Shady Grove Rd at Oakmont	4/5/2005	1345	992	1800	Shady Grove
Shady Grove Rd at Research Blvd	9/25/2007	1074	1089	1450	R&D Village
Shady Grove Rd at Traville Gateway Dr	2/7/2008	431	585	1450	R&D Village
Snouffer School Rd at Centerway Rd	9/11/2002	1483	844	1425	Montgomery Village/Airpark
Spring St at 2nd Ave	12/5/2006	777	1270	1800	Silver Spring CBD
Spring St at Cameron St	9/20/2006	638	1074	1800	Silver Spring CBD
Spring St at Cedar/Ellsworth	9/13/2006	278	454	1800	Silver Spring CBD
Strathmore Ave at Kenilworth Ave	11/16/2006	823	854	1550	North Bethesda
Tuckerman Ln at Gainsborough Rd	4/27/2004	996	964	1450	Potomac
Tuckerman Ln at Westlake Terr	5/17/2005	507	1021	1450	Potomac
Twinbrook Pkwy at Ardennes Ave	9/11/2003	959	762	1800	Twinbrook
Twinbrook Pkwy at Chapman Ave	11/2/2005	785	1101	1500	Rockville City
Twinbrook Pkwy at Fishers Ln	6/9/2004	701	1048	1800	Twinbrook
University at Caddington/Gable	11/17/2005	791	871	1600	Kensington/Wheaton
University Blv at Newport Mill/Lexington	10/18/2005	703	772	1600	Kensington/Wheaton
University Blvd (MD 193) at Reedie Dr	11/15/2005	531	584	1800	Wheaton CBD
University Blvd at Amherst Ave	11/28/2007	846	1060	1800	Wheaton CBD
University Blvd at Arcola Ave	11/22/2005	1037	1155	1600	Kensington/Wheaton
University Blvd at Buckingham/Wayne	12/13/2005	697	790	1600	Silver Spring/Takoma Park
University Blvd at Carroll Ave	10/20/2005	1250	1156	1600	Silver Spring/Takoma Park
University Blvd at Dennis Ave	12/8/2005	841	978	1600	Kensington/Wheaton
University Blvd at East Ave	4/26/2005	583	707	1800	Wheaton CBD
University Blvd at Franklin Ave	5/10/2005	1512	1328	1600	Silver Spring/Takoma Park
University Blvd at Grandview Ave	11/28/2007	799	1000	1800	Wheaton CBD
University Blvd at Inwood	11/23/2004	589	761	1600	Kensington/Wheaton
University Blvd at Lexington	10/5/2005	777	902	1600	Kensington/Wheaton
University Blvd at Metro/Valley View Ave	5/10/2005	394	734	1800	Wheaton CBD
University Blvd at Midvale	6/4/2003	387	421	1800	Wheaton CBD

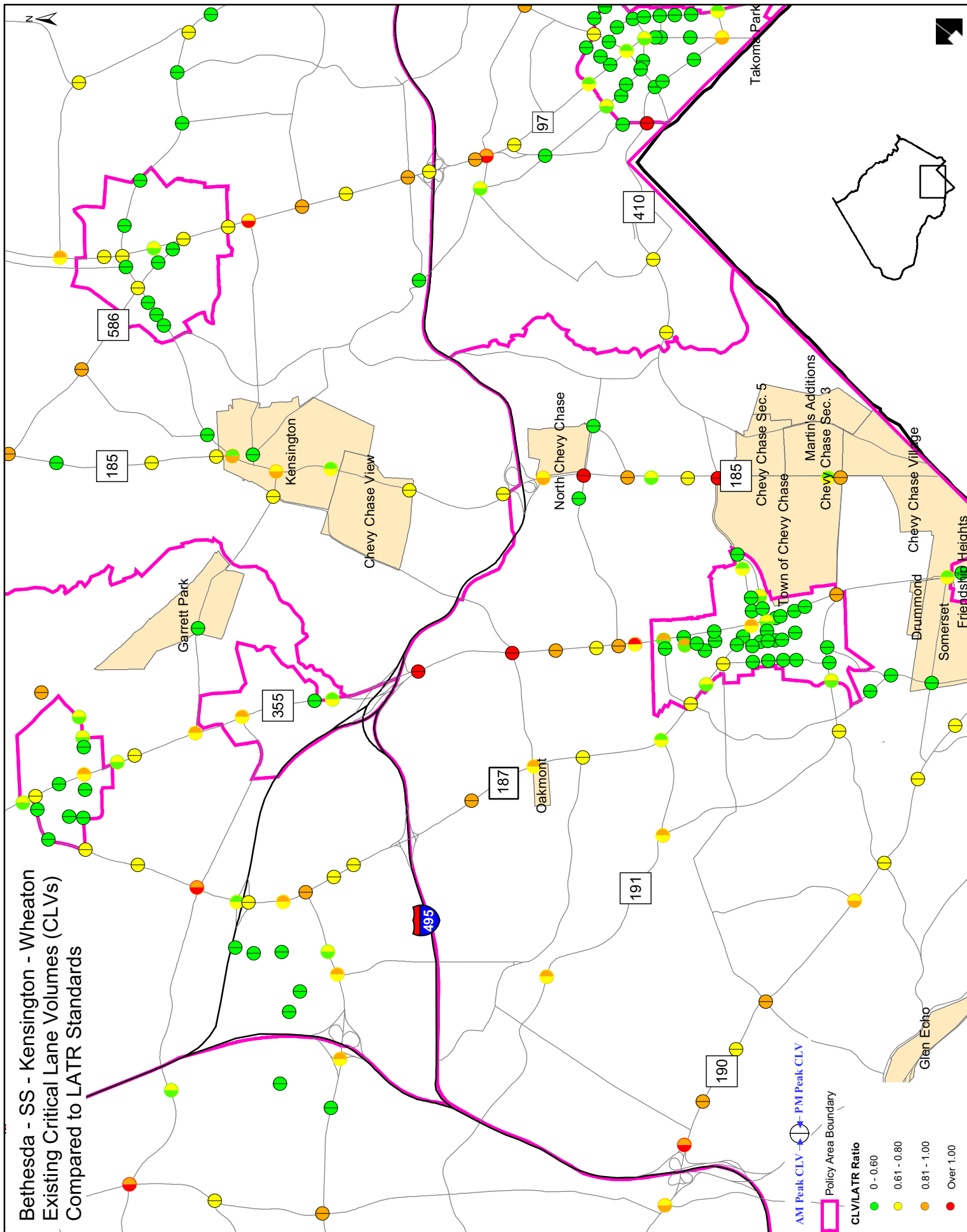
Source: M-NCPPC Intersection Database

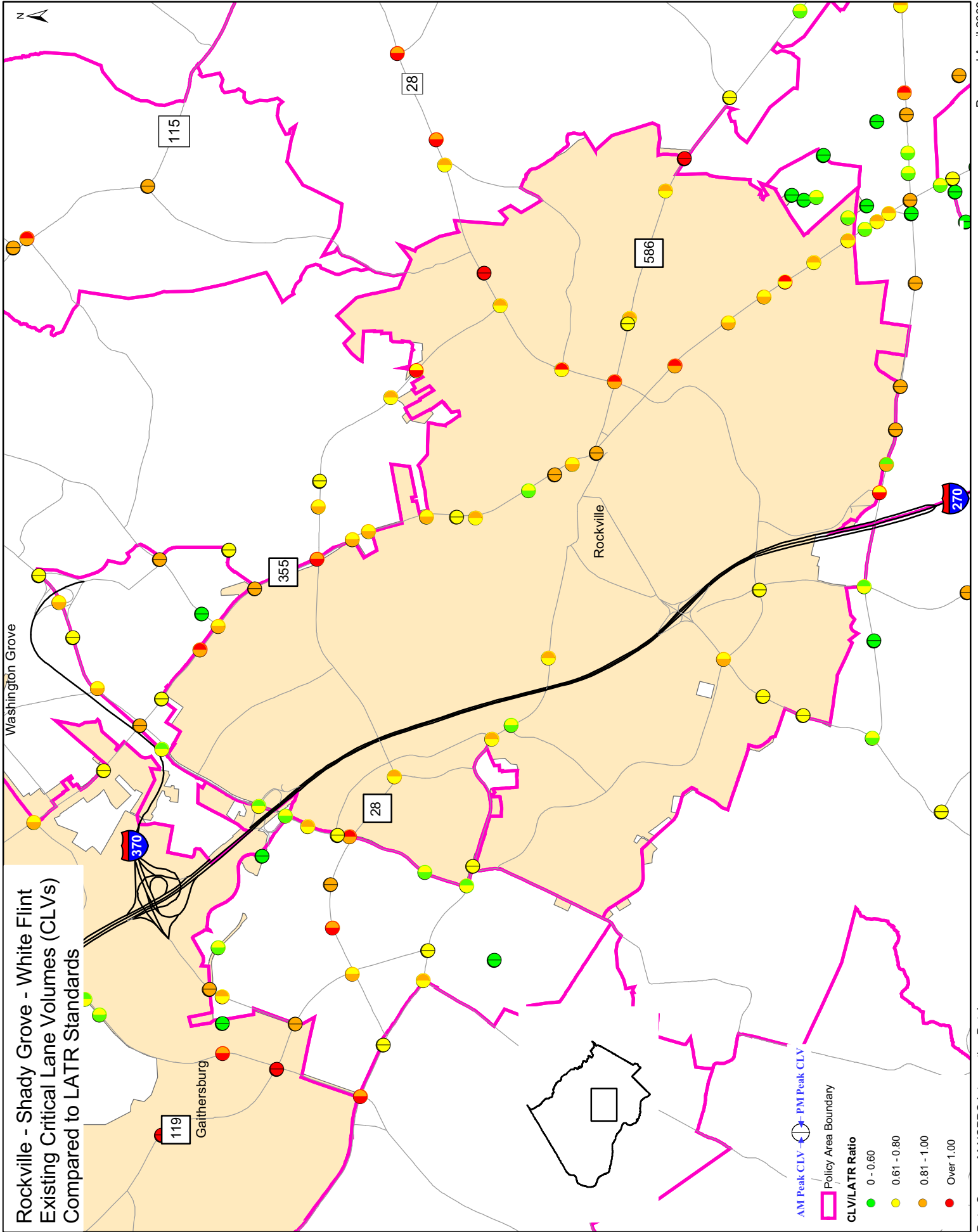
Appendix 5.1A: All Available Critical Lane Volume Data at Signalized Intersections

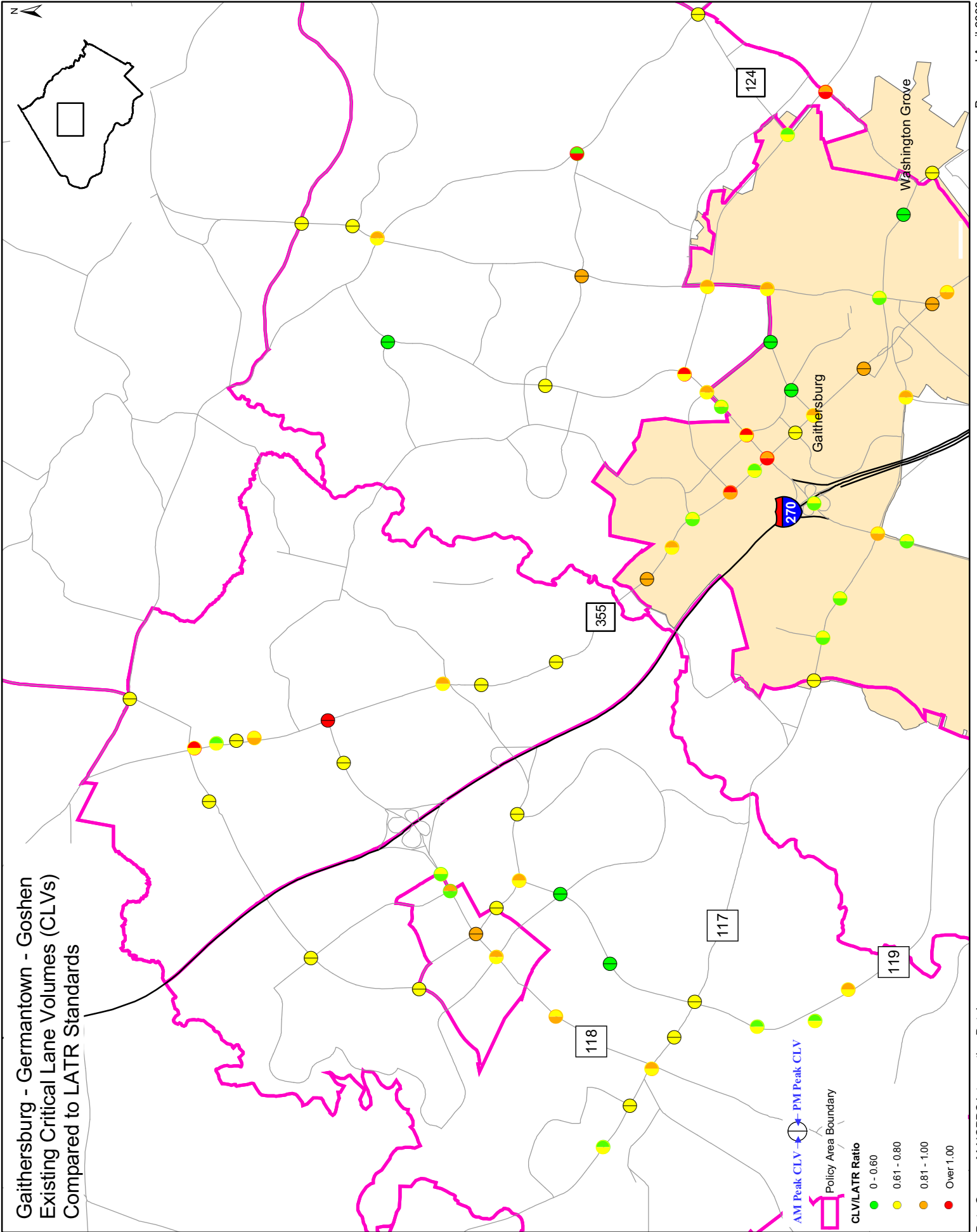
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University Blvd at Sligo Creek Pkwy	12/13/2005	751	909	1600	Kensington/Wheaton
University Blvd at Veirs Mill Rd	4/26/2005	1202	1239	1800	Wheaton CBD
University Blvd at Williamsburg	12/13/2005	801	955	1600	Kensington/Wheaton
Veirs Mill Rd at Aspen Hill Rd	11/8/2005	1137	1102	1475	Aspen Hill
Veirs Mill Rd at Atlantic Ave	5/17/2005	1042	1424	1500	Rockville City
Veirs Mill Rd at Edmonston Dr (E)	9/15/2005	1042	1311	1500	Rockville City
Veirs Mill Rd at Edmonston Dr (W)	11/9/2005	1110	1095	1500	Rockville City
Veirs Mill Rd at Ferrara Ave	10/27/2005	886	944	1600	Kensington/Wheaton
Veirs Mill Rd at First St	11/15/2005	1255	1765	1500	Rockville City
Veirs Mill Rd at Gaynor/Parkland	11/10/2005	1191	1237	1475	Aspen Hill
Veirs Mill Rd at Gridley	9/27/2005	1077	1189	1600	Kensington/Wheaton
Veirs Mill Rd at Newport	4/12/2005	1482	1339	1600	Kensington/Wheaton
Veirs Mill Rd at Reddie Dr	2/8/2006	836	959	1800	Wheaton CBD
Veirs Mill Rd at Robindale	11/9/2005	818	1054	1475	Aspen Hill
Veirs Mill Rd at Twinbrook Pkwy	9/8/2005	1783	1649	1550	North Bethesda
Veirs Mill Rd at Westfield Wheaton Drwy	6/13/2007	566	869	1800	Wheaton CBD
W Diamond Ave at Muddy Branch/Chestnut	3/9/2004	1039	1227	1450	Gaithersburg City
Wayne Ave at Cedar St	4/12/2005	657	776	1800	Silver Spring CBD
Wayne Ave at Ramsey	12/6/2006	354	845	1800	Silver Spring CBD
Westlake Terr at Westlake Dr	3/7/2006	818	687	1450	Potomac
Willard Ave at Friendship Blvd	4/27/2005	723	898	1800	Friendship Heights
Wisconsin Ave at Battery/Rosedale	2/8/2007	808	1745	1800	Bethesda CBD
Wisconsin Ave at Bethesda/Willow	11/9/2006	744	862	1800	Bethesda CBD
Wisconsin Ave at Bradley Blvd	11/9/2006	1503	1681	1800	Bethesda CBD
Wisconsin Ave at Cheltenham	3/28/2007	910	807	1800	Bethesda CBD
Wisconsin Ave at Dorset Ave	3/21/2007	1072	884	1600	Bethesda/Chevy Chase
Wisconsin Ave at Elm St (S)	4/10/2007	645	737	1800	Bethesda CBD
Wisconsin Ave at Leland St	11/9/2006	824	912	1800	Bethesda CBD
Wisconsin Ave at Montgomery Ln	2/8/2007	1051	1191	1800	Bethesda CBD
Wisconsin Ave at Montgomery St/S Park Av	4/27/2005	767	753	1800	Friendship Heights
Woodfield Rd at Cypress Hill Dr	9/14/2005	895	1109	1425	Montgomery Village/Airpark
Woodfield Rd at Fieldcrest/Hadley Farms	3/10/2005	1390	1635	1425	Montgomery Village/Airpark
Woodfield Rd at Muncaster Mill Rd	9/17/2002	1038	1127	1425	Montgomery Village/Airpark
Woodfield Rd at Sweepstakes Rd	12/4/2003	1128	1076	1400	Damascus
Woodmont Ave at Battery Ln	11/1/2006	892	746	1800	Bethesda CBD
Woodmont Ave at Bethesda Ave	11/9/2006	578	732	1800	Bethesda CBD
Woodmont Ave at Cheltenham/Norfolk	5/11/2006	852	673	1800	Bethesda CBD
Woodmont Ave at Cordell Ave	2/6/2007	615	1700	1800	Bethesda CBD
Woodmont Ave at Elm St	11/9/2006	557	730	1800	Bethesda CBD
Woodmont Ave at Hampden Ln	3/28/2007	503	654	1800	Bethesda CBD
Woodmont Ave at Montgomery Ln	11/9/2006	419	434	1800	Bethesda CBD
Woodmont Ave at North Ln	2/8/2007	498	669	1800	Bethesda CBD
Woodmont Ave at St Elmo Ave	4/10/2007	628	599	1800	Bethesda CBD

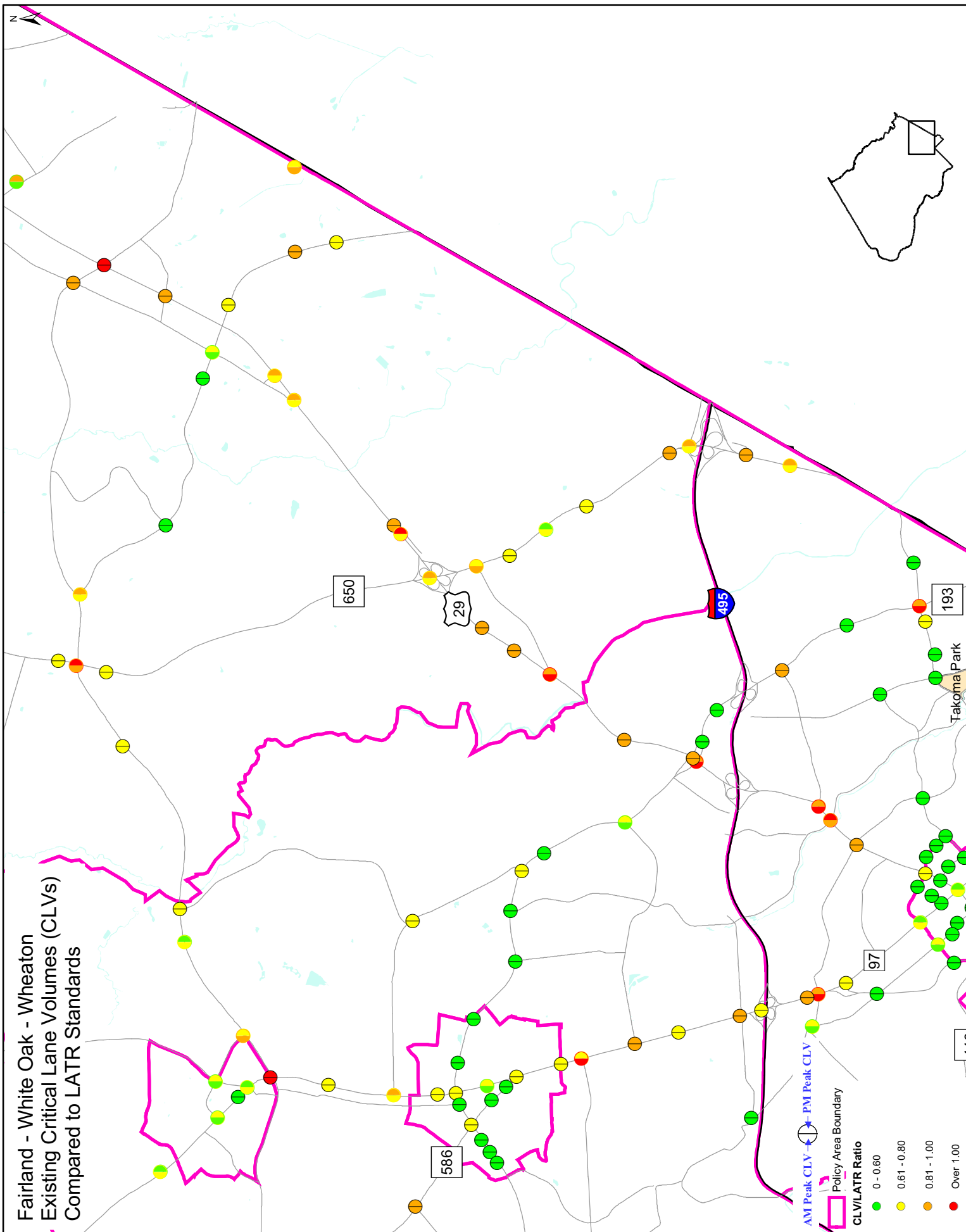
Source: M-NCPPC Intersection Database

Appendix 5.1B: Map of CLVs for Bethesda – Silver Spring - Kensington

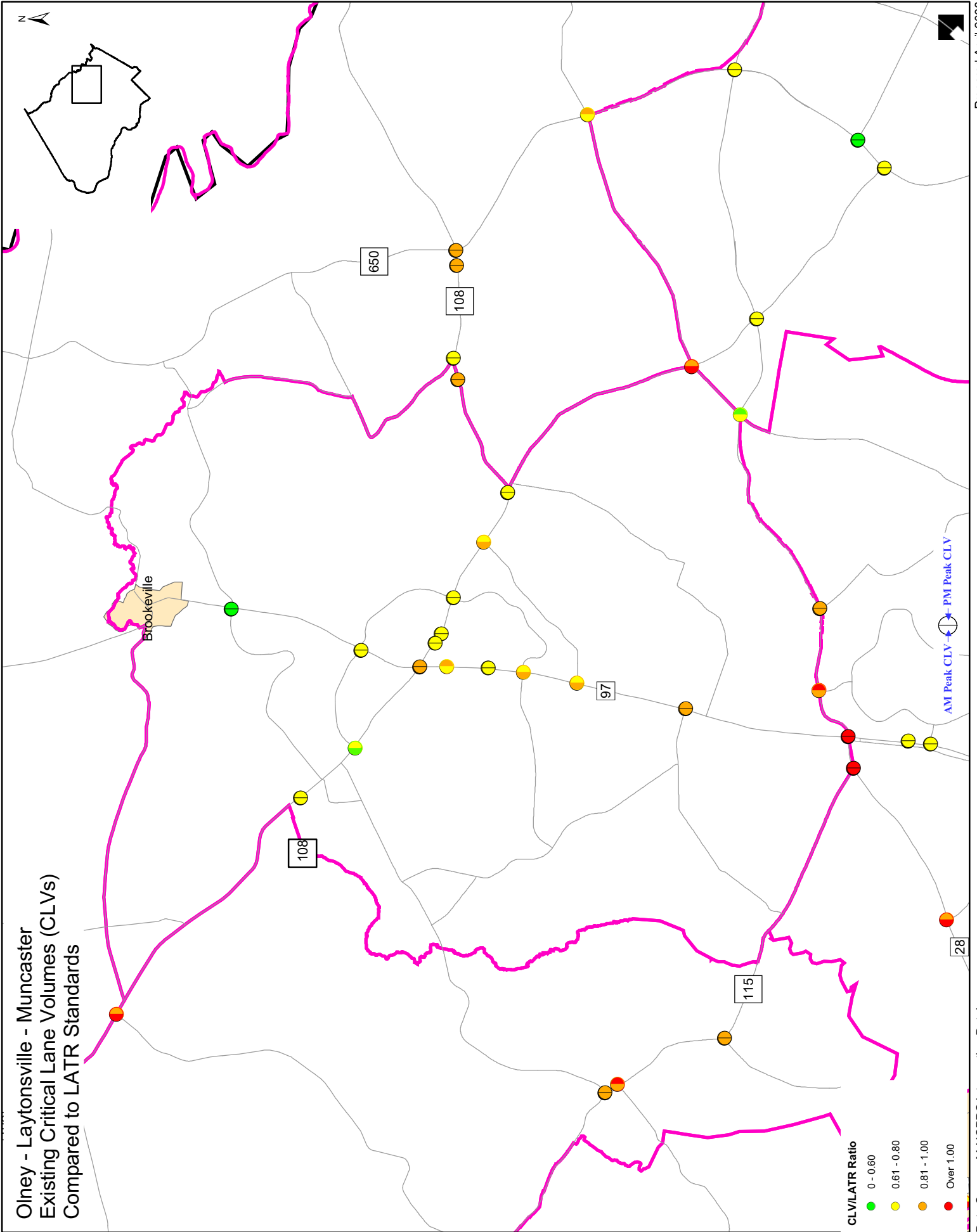


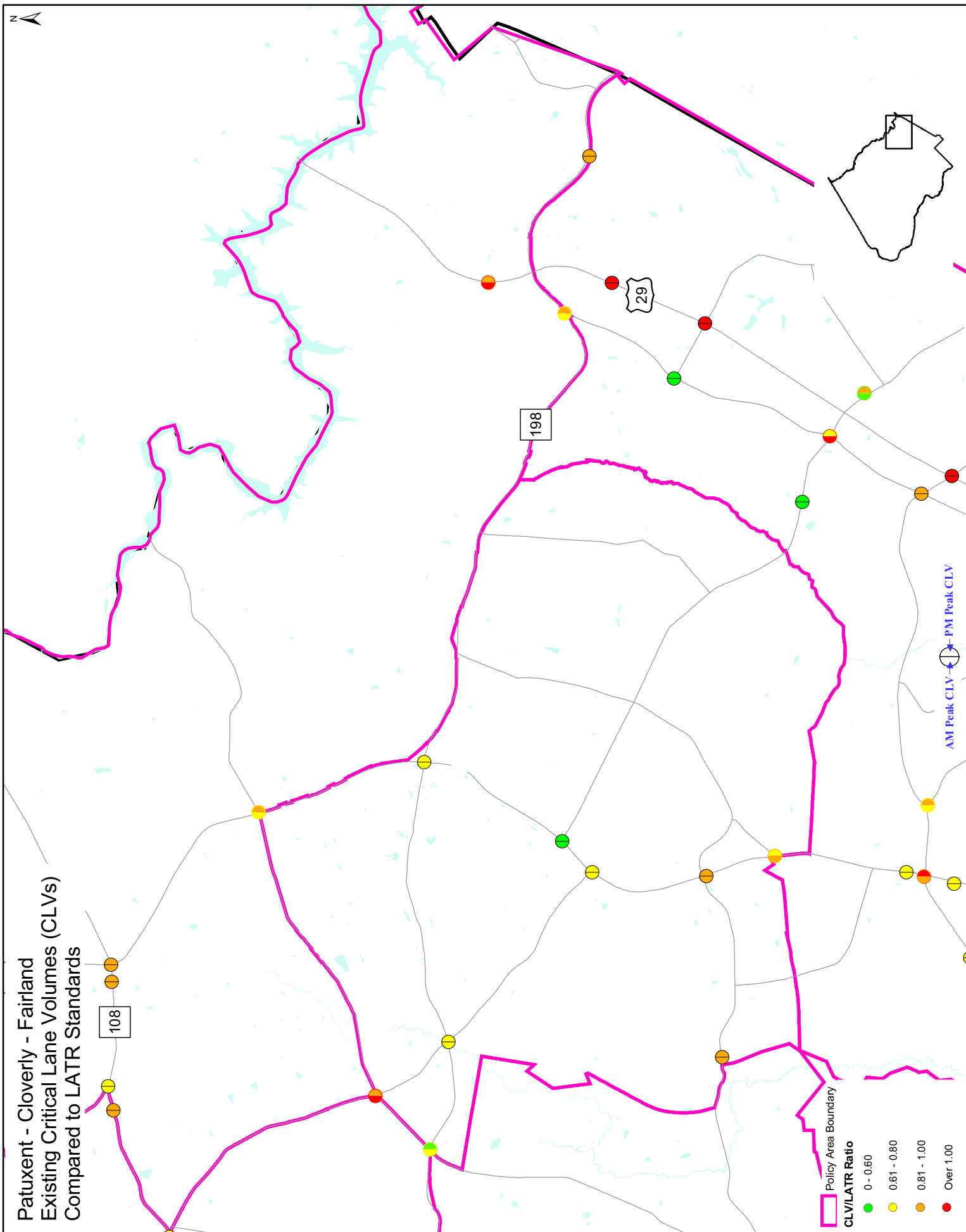


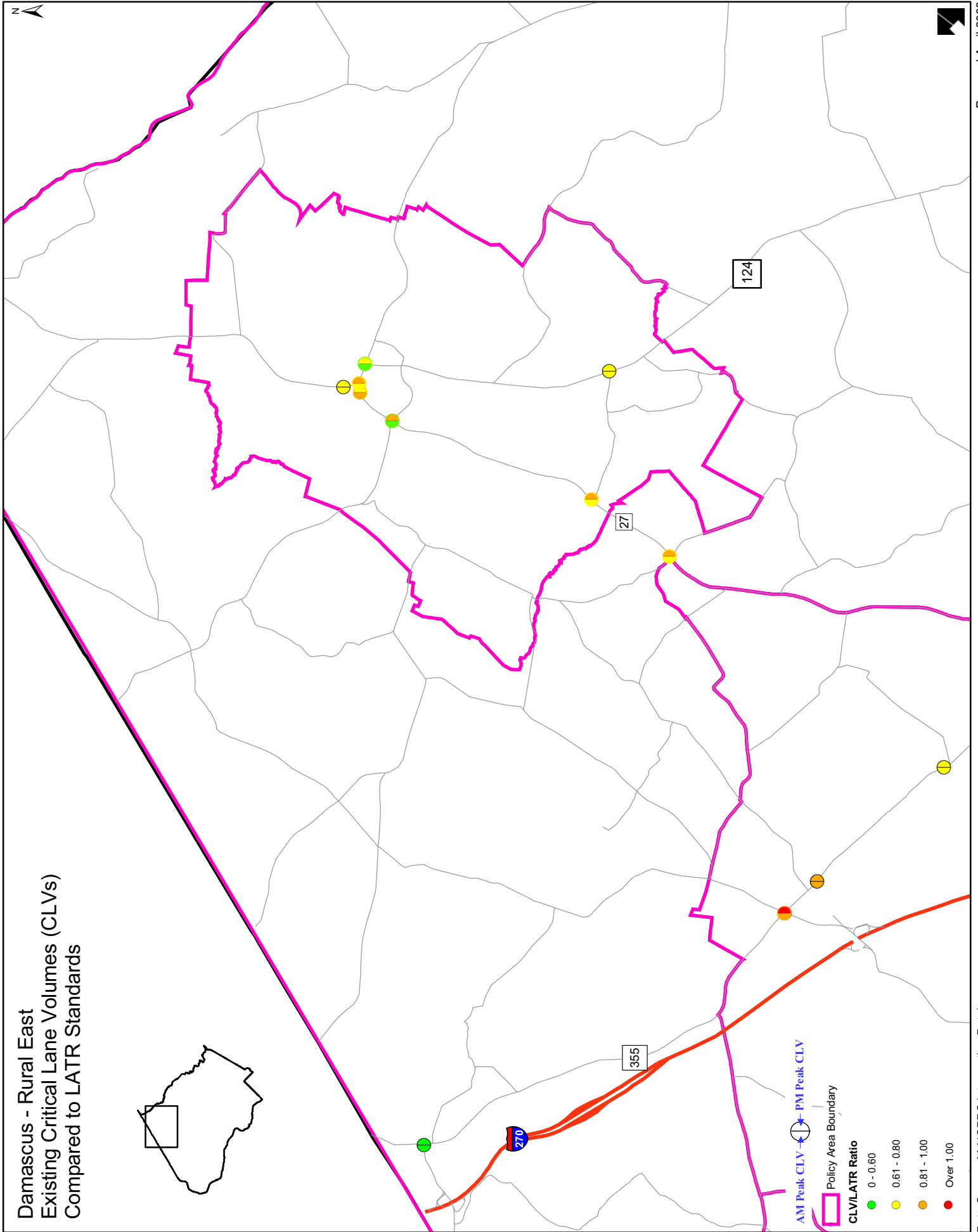












### Appendix 5.2A: Arterial Travel and Speed Sampling Overview

In support of the first congestion report (formerly the ADAC Report), which was assembled in 2004, the Department began collecting and analyzing travel time and speed samples obtained using probe vehicles equipped with Global Positioning System (GPS)-based tracking devices. These tracking devices differ from traditional GPS-based navigation systems in that they record the second-by-second position of the probe vehicle, calculated in the vehicle by the device by triangulating on the signal's broadcast from each satellite in a cluster of satellites. The probe vehicle drivers are instructed to travel a prescribed sequence of roadways and to travel at the speed of the flow of traffic around them, which results in a "chain" of sample data being recorded on the device. At the end of the sampling period, the recorded data is downloaded from the device. Subsequently, that data chain can be analyzed to derive information on travel time duration, spot and average speed, the specific start, end, and duration of significant traffic queues, and travel delays relative to a free-flow or speed-limit speed.

To derive such information each chain first needs to be disaggregated into a set of "trajectories", which are directional samples each of which began at a unique time-of-day and had a unique travel time duration. These trajectory samples of traffic congestion fundamentally differ from traffic turning-movement counts (used to derive CLVs), which count and record the movement of all vehicles entering and exiting a specific intersection during a fixed time period (i.e. each successive 15-minute interval during a three-hour peak period). In a 15-minute time period, a probe vehicle on an arterial roadway may travel 5 to 10 miles passing through and "sampling" traffic congestion conditions for the through movements of many intersections located along that arterial. A different probe, either on the same day or a different day, is used similarly to sample traffic conditions on other arterials that cross the initial one. Thus over time, samples of congested conditions at each of the approaches to an intersection can be observed.

For most of the sample chains, the drivers are instructed to: (1) travel from one end of a roadway to the other end, (2) turn around, (3) travel back in the opposite direction to the start, (4) turn about again, and (5) then continue traveling back and forth several times. In some cases, more than one roadway would be sampled before the driver completed the directional run and returned to the point of origin. In many cases, one driver could thus collect three or four directional samples within a three-hour peak period. In other cases two or more drivers can be assigned to one route if the route is expected to be particularly long and/or slow, in terms of travel time duration. Depending upon the specific analytical application, a "temporal resolution" that samples between two and four observations in the peak period is usually a sufficient determinant of the range of congested conditions – of fastest to slowest. The more frequent the temporal resolution, the more certain would the analyst be that the true slowest and fastest conditions have been observed – however, such more frequent temporal resolution requires the availability of additional resources. The term "temporal coverage" refers to the overall time period covered by the sampling. (i.e., weekday AM peak period, mid-day peak period, and PM peak period).

Another dimension of the sampling is that of the “spatial coverage”, which refers to the geographic extent of the sampling. In 2007 sampling coverage included the urban and developing parts of the County, thereby excluding the rural parts of the County. The term “spatial resolution” refers to how closely spaced the samples were on different parts of the overall highway network. In 2007 within the spatial coverage area, samples were conducted on: (a) major and minor State Highways, (b) major and minor County arterials, (c) selected municipal roadways, and (d) selected M-NCPPC (park) arterial roadways. No samples were explicitly collected on Interstate Freeways or National Park Service Parkways.

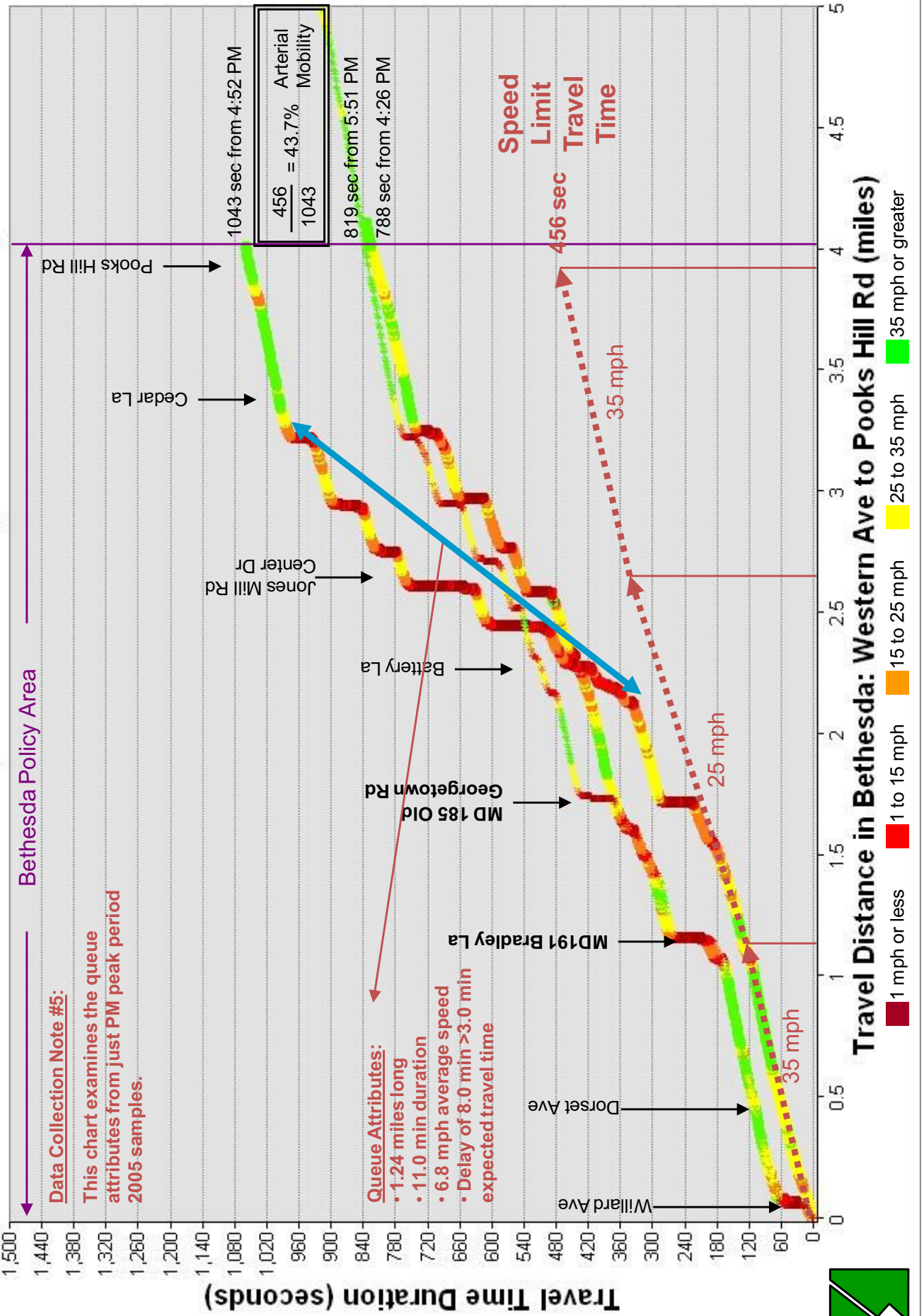
The arterial travel time and speed samples collected in 2007 represent a significant departure from the more ad hoc and limited sampling conducted in 2004, 2005, and 2006. Resources had been set-aside in the budget to carry out a more extensive and intensive sampling of travel times and speeds in support of the Annual Growth Policy (AGP) reform work that was conducted throughout most of 2007. In conjunction with the staff recommendations to the Board in early May 2007, a decision was made to perform a more extensive and intensive sampling of travel times and speeds, which was done in the last half of May and the first half of June 2007. However, it was also recognized at that time that: (1) the resources to analyze and summarize the resulting information from that data collection would not be available until FY07-08, (2) the timing of that analysis should not begin at best until after the Council had finished their review and actions, and (3) the time to carry out and summarize the resulting information would take at least until the preparation of the 2008 Highway Mobility Report commenced.

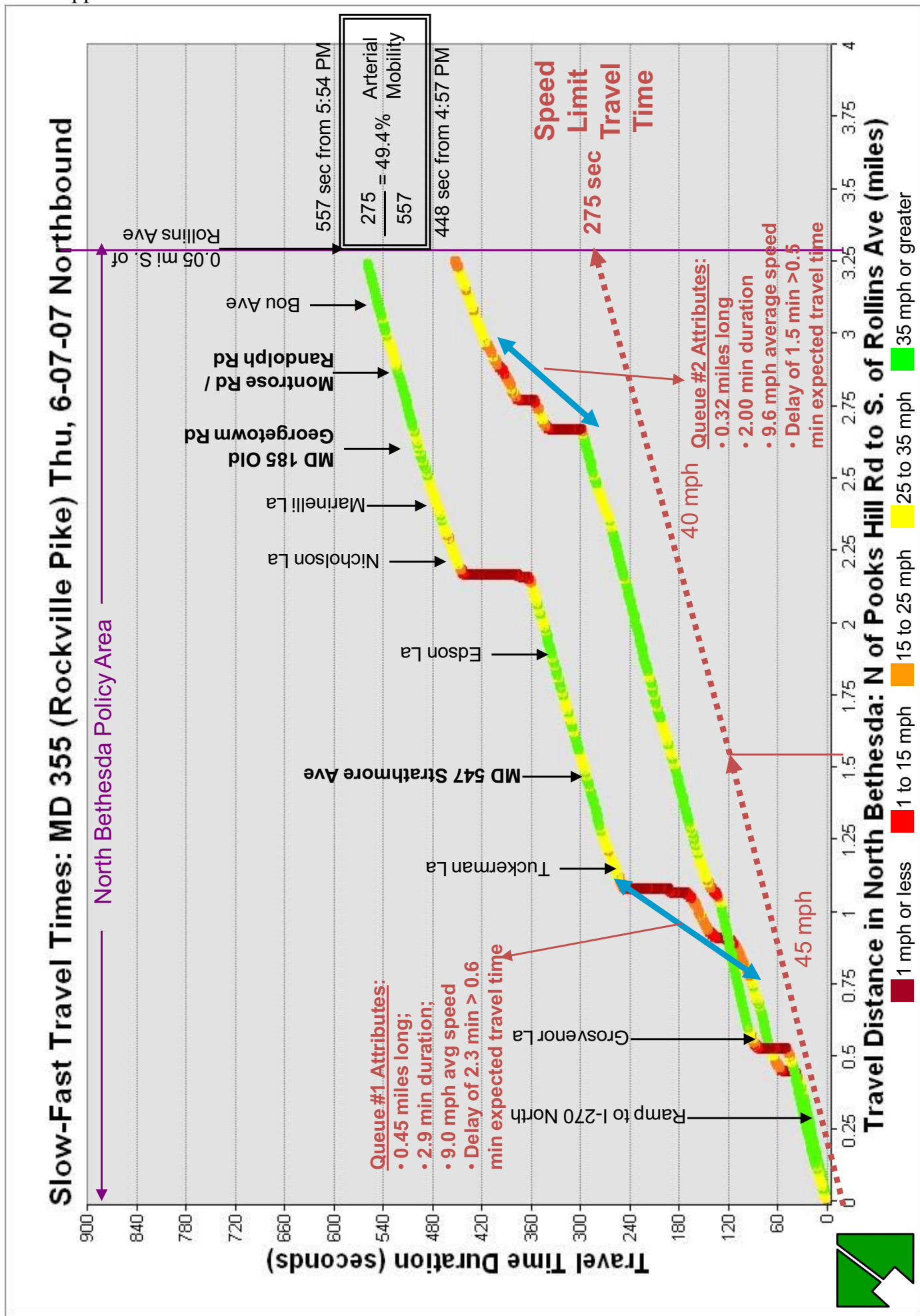
The decision to perform this sampling included the specification of a sampling approach that would be tailored to meet the needs and requirements for the expected outcome of the AGP reform options that were under consideration at that time. In particular, the sampling plan included: (a) the spatial coverage described above, (b) a spatial resolution that included most of the non-freeway roadways associated with the modeling network used in the Policy Area Mobility Review (PAMR) analysis, (c) temporal coverage initially of weekday (Monday through Thursday, non-holiday) PM peak period of 4 to 7 PM and an evening off-peak period of about 7:30 to 8:30 PM, and (d) a temporal resolution of about four samples in each direction in the peak period and two samples in the evening off-peak period.

The particulars of the sampling plan were developed by Motion Maps LLC, one of the consultants assisting Planning staff on this work program item. This included identifying which roadways would be sampled in conjunction with other roadways on particular days so as to try to efficiently use the time to actually be sampling and to minimize “dead-head” travel to and from the location of the survey crew meeting sites and of the turn-around distances along the chain. The initial field supervision, training, and one probe driver were provided by Motion Maps, while the remaining probe drivers were provided by MCV and Associates. About midway through the sampling schedule, it was realized that in order to conserve resources for the purpose of sampling the full spatial extent of roadways that: (a) it would not be necessary to collect additional samples during the evening off-peak, and (b) the remaining field supervisor-driver role could be fulfilled by

Planning staff. In the subsequent analysis and summary phases of the work, Motion Maps LLC provided training on the use of their specialized analysis software that enabled Planning staff to also work on the processing and analysis of the numerous dataset chains, ultimately converting them into trajectory samples of GPS travel time and speed. The following sections presents the summary of this information and displays derived from the arterial travel time and speed samples.

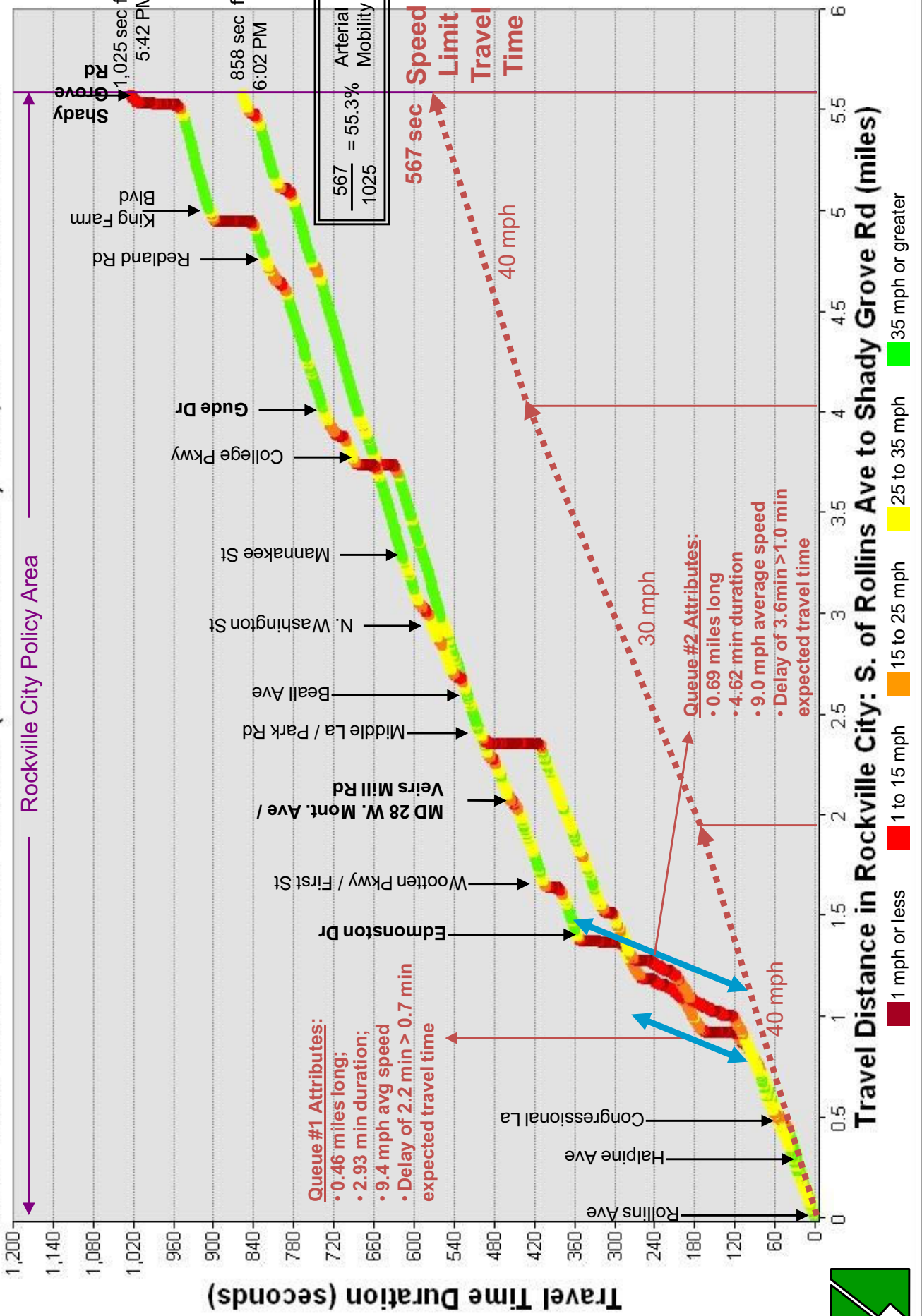
# Slow-Fast Travel Times: MD 355 (Wisconsin Ave) Northbound: May 12-14, 2005

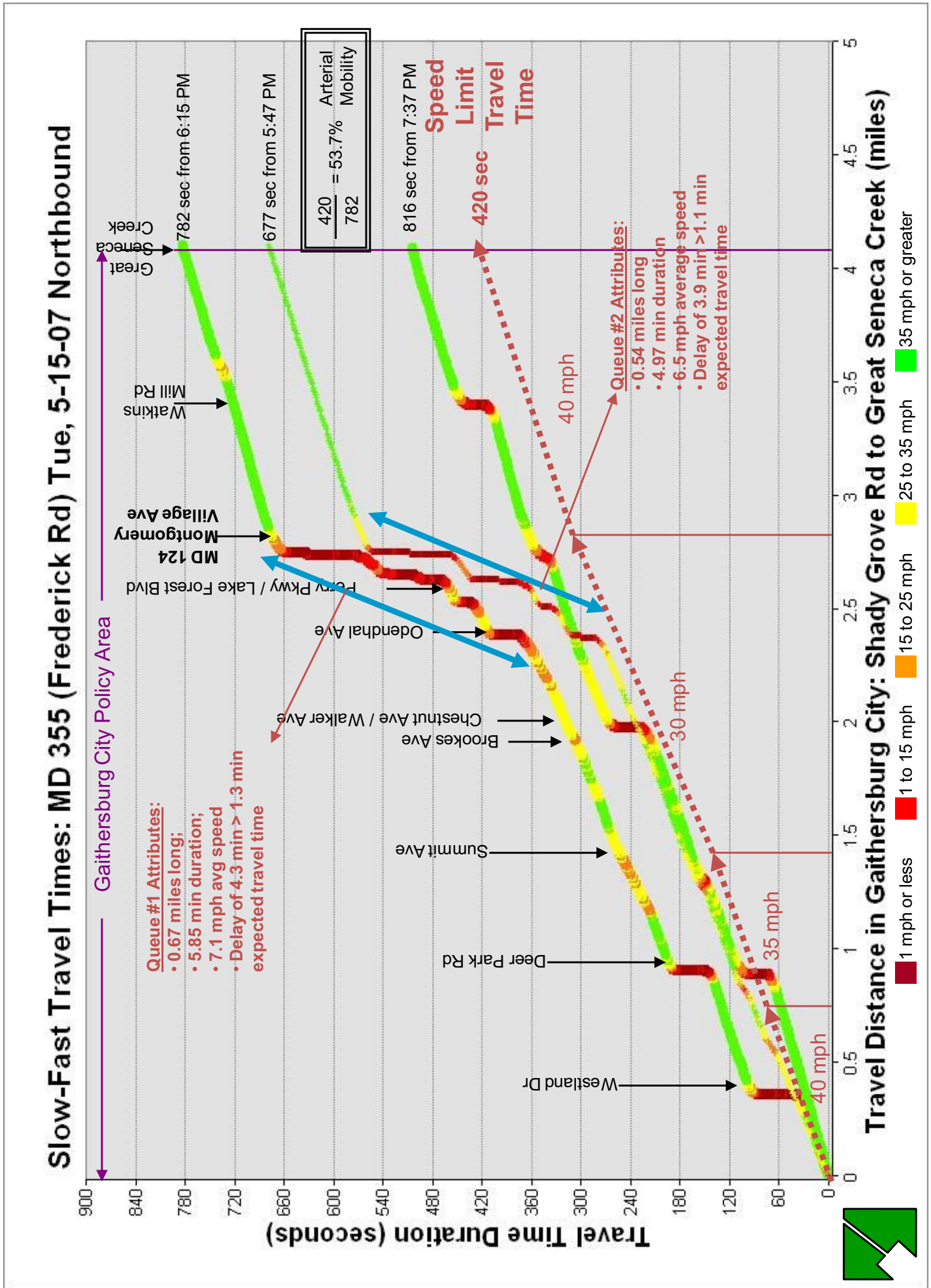




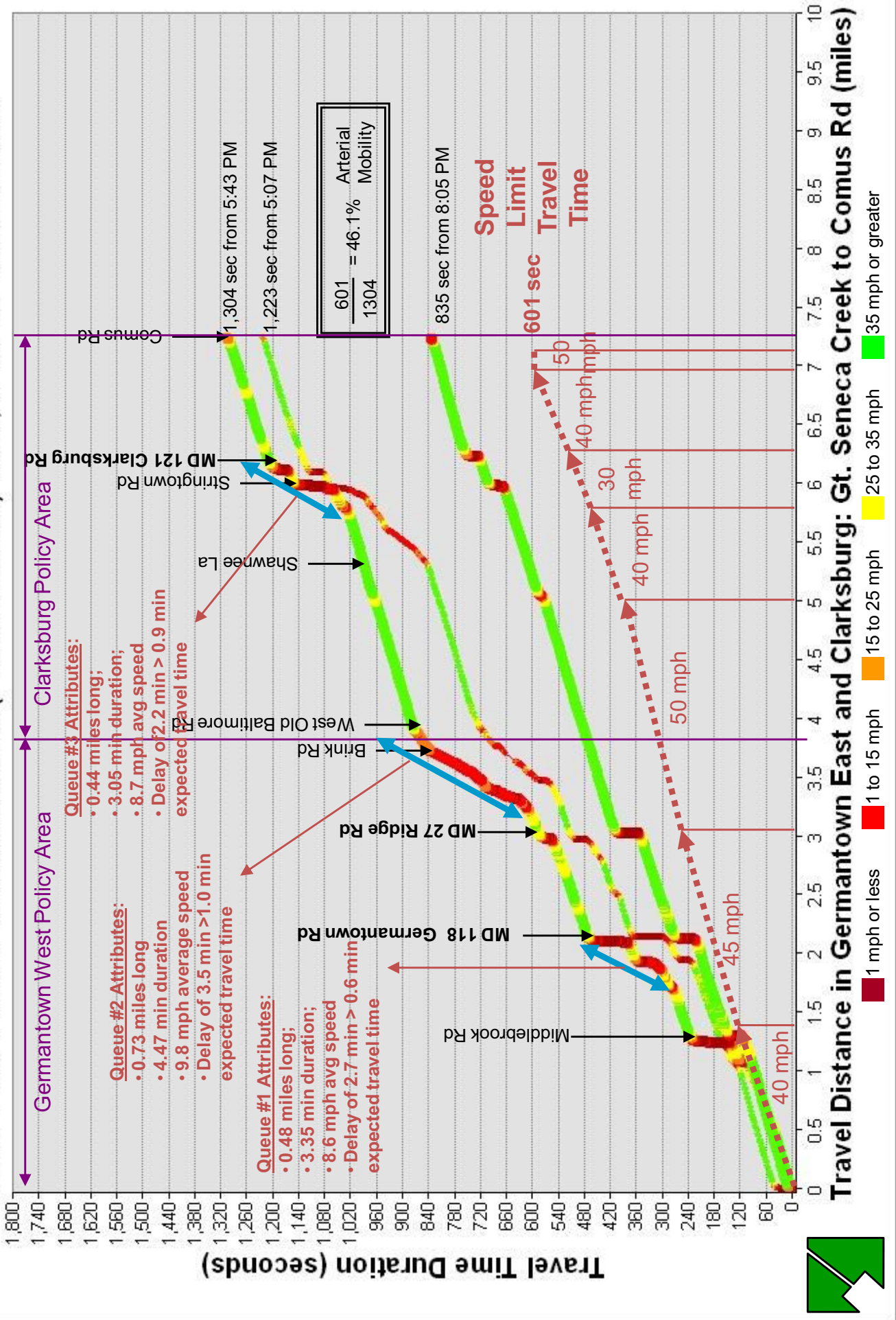


# Slow-Fast Travel Times: MD 355 (Rockville Pike) Thu, 6-07-07 Northbound

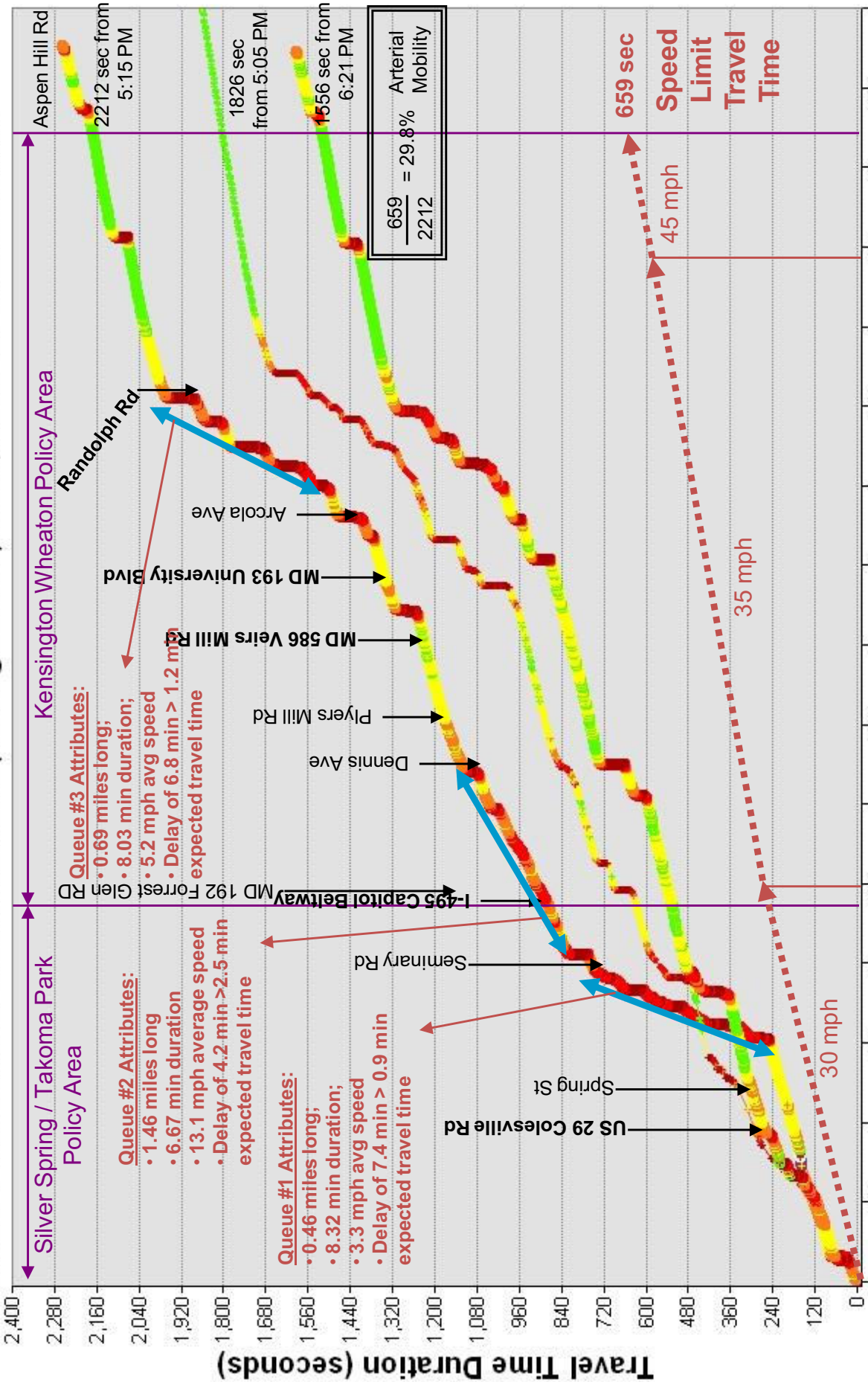




# Slow-Fast Travel Times: MD 355 (Frederick Rd) Mon, 5-14-07 Northbound



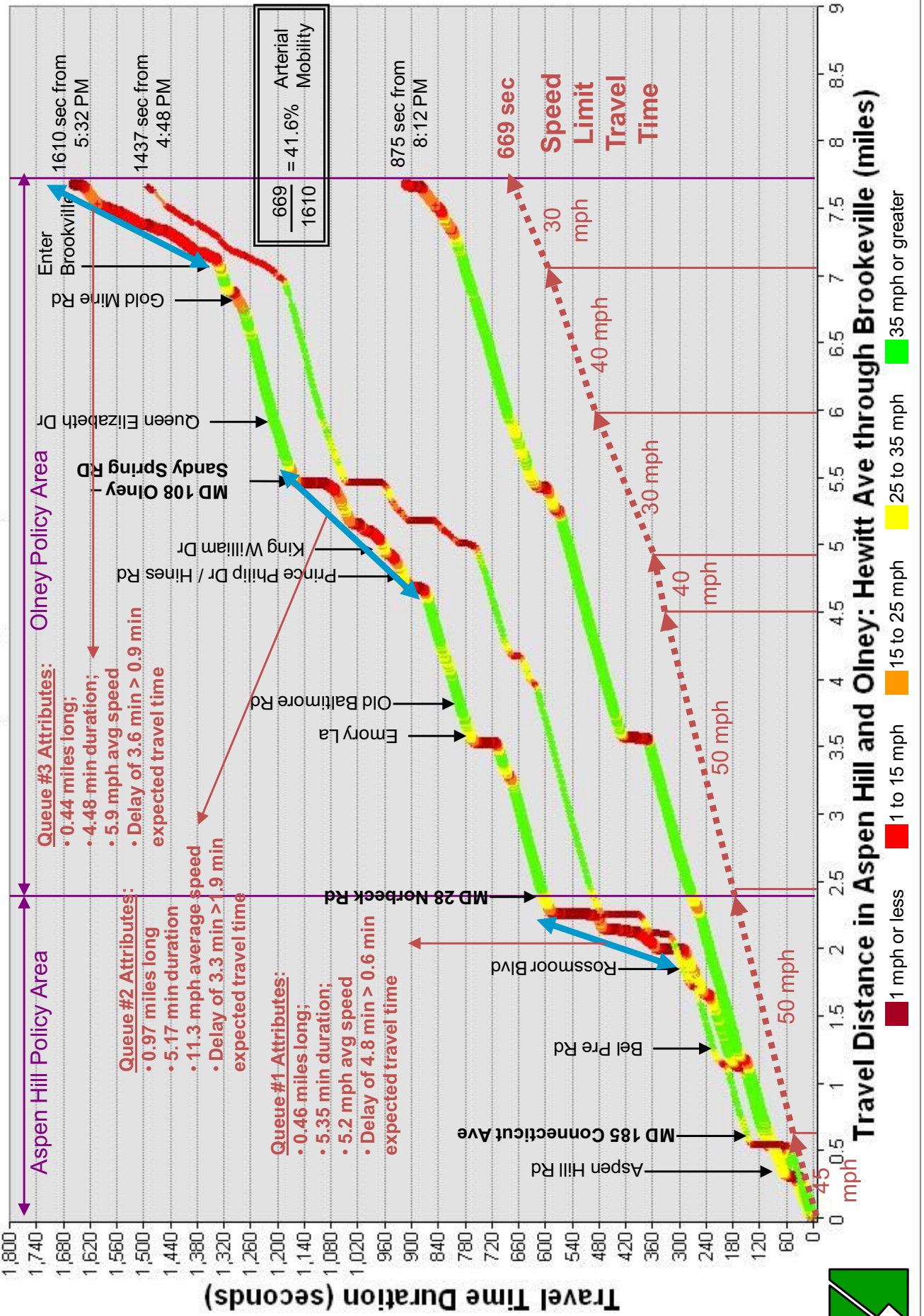
# Slow-Fast Travel Times: MD 97 (Georgia Ave) Mon, 6-04-07 Northbound

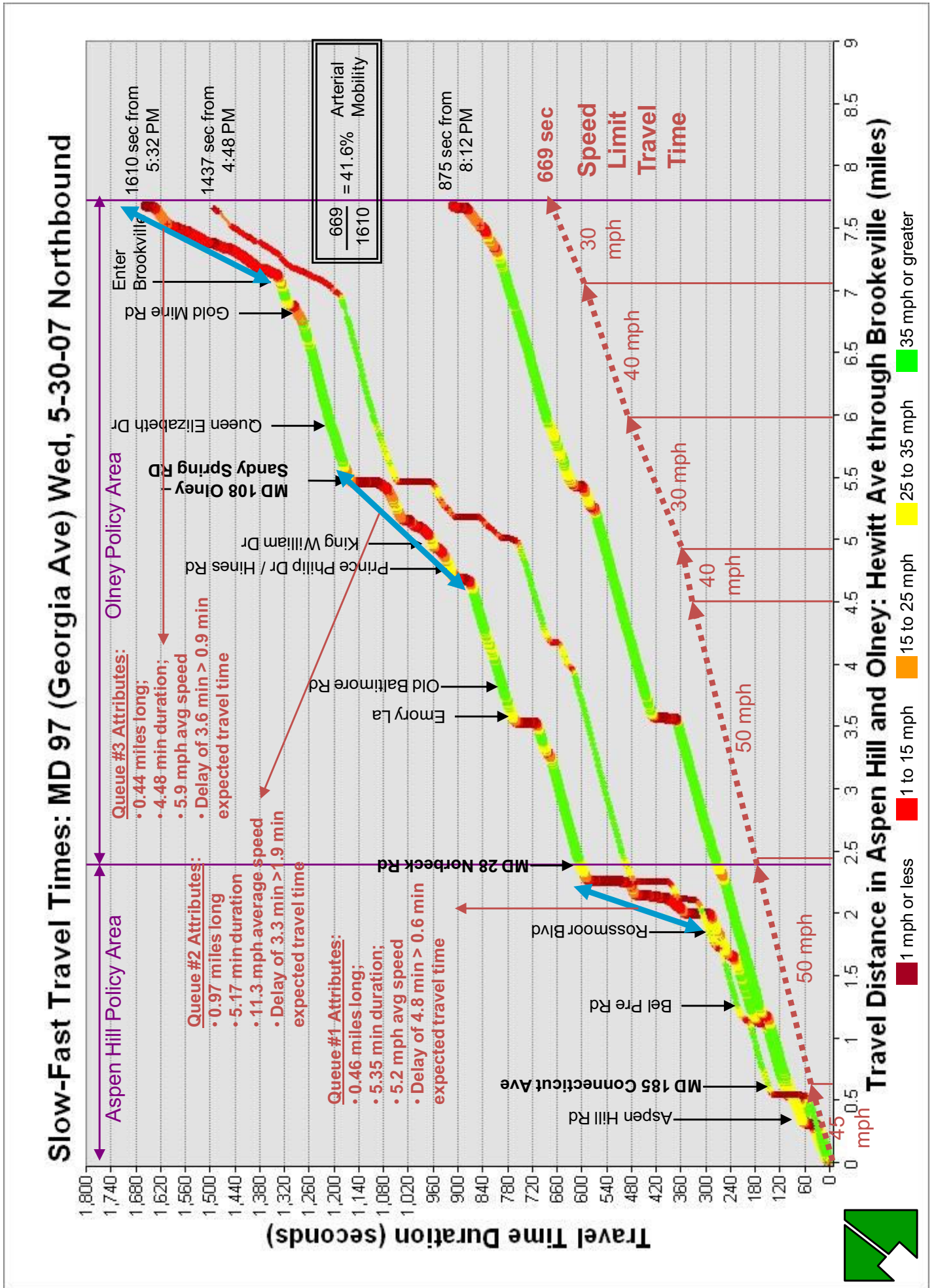


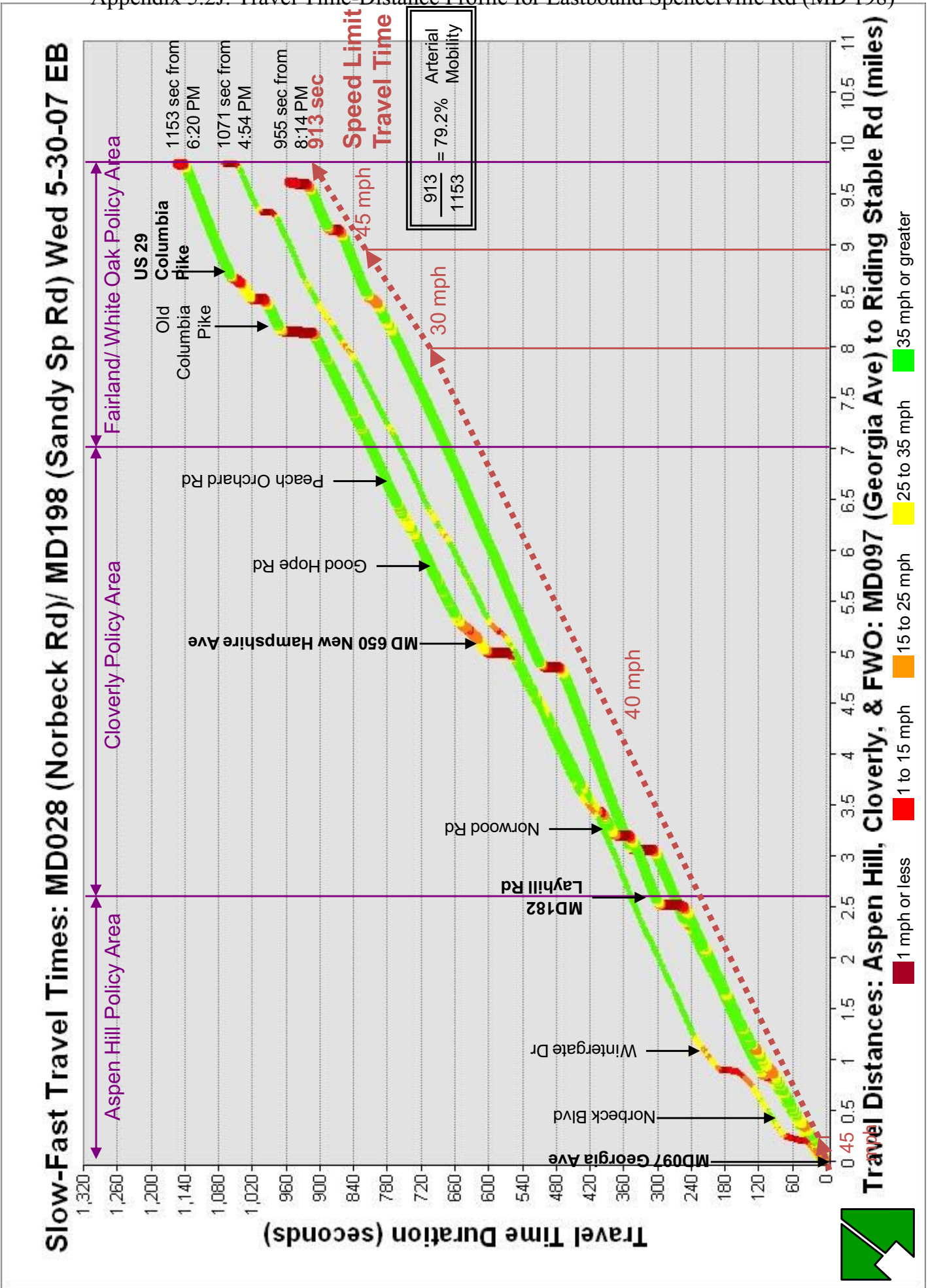
**Travel Distance in Silver Sp/Takoma Park and Kensington/ Wheaton: Eastern Ave to Hewitt Ave**

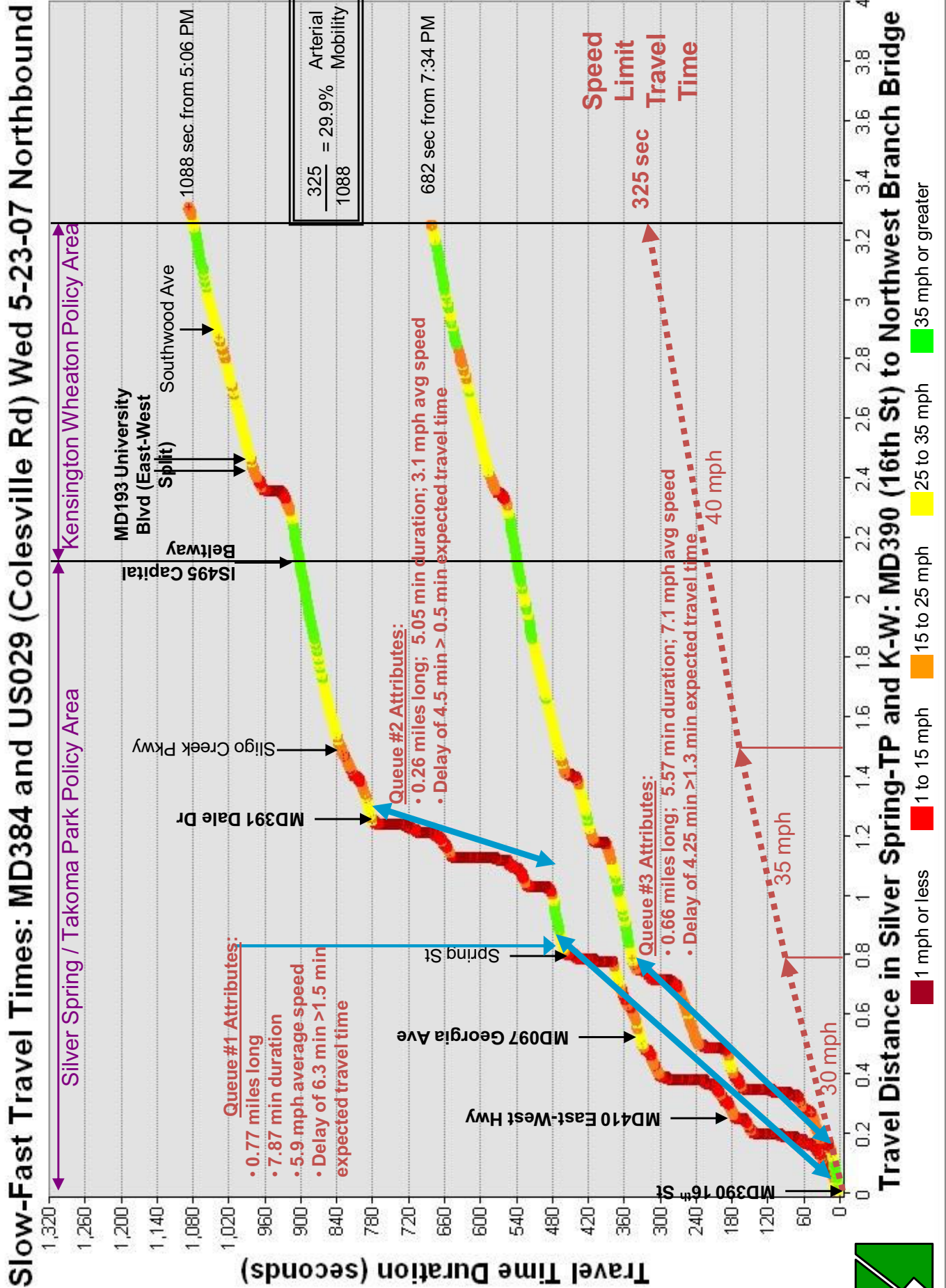
- 1 mph or less
- 1 to 15 mph
- 15 to 25 mph
- 25 to 35 mph
- 35 mph or greater

# Slow-Fast Travel Times: MD 97 (Georgia Ave) Wed, 5-30-07 Northbound



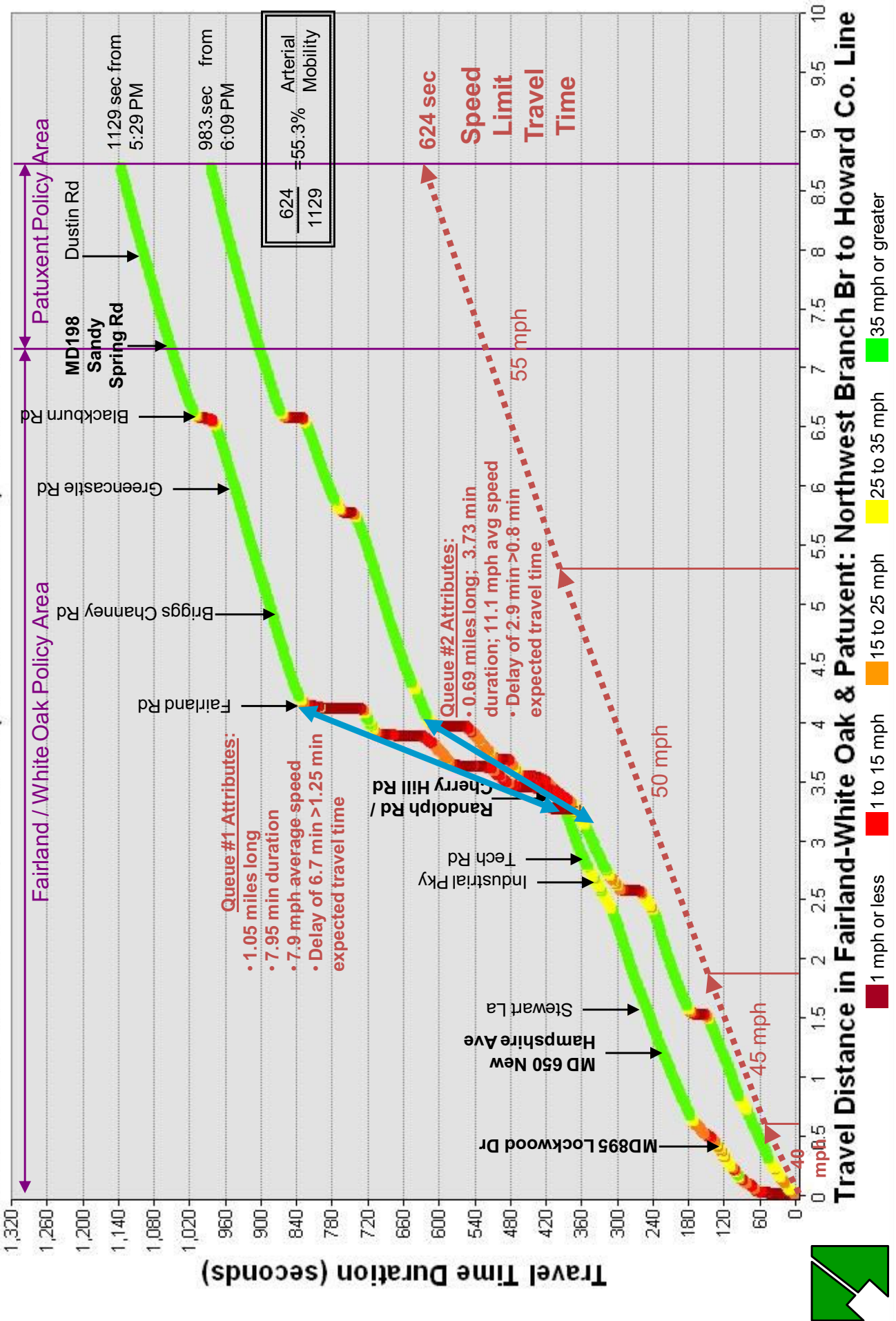




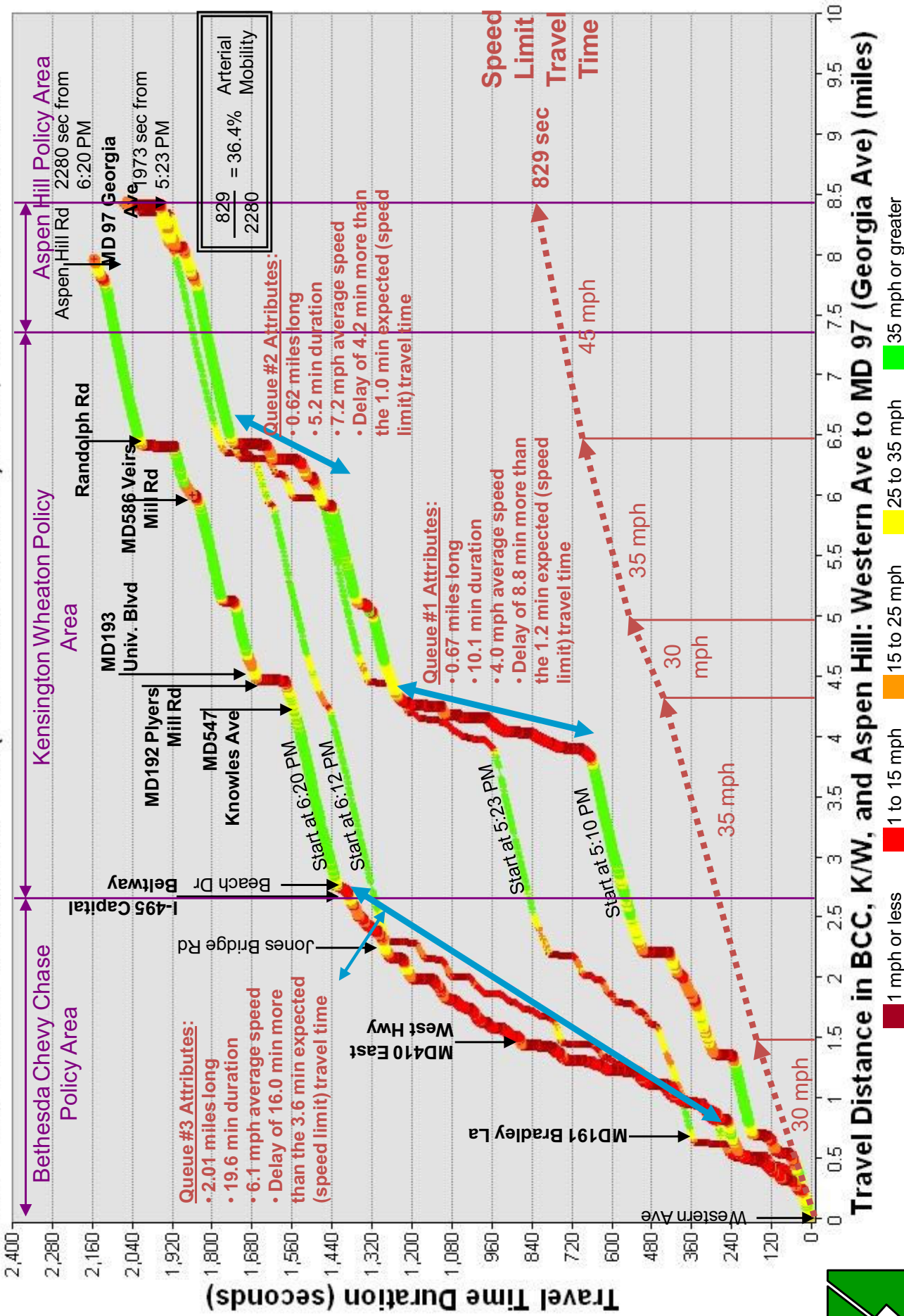




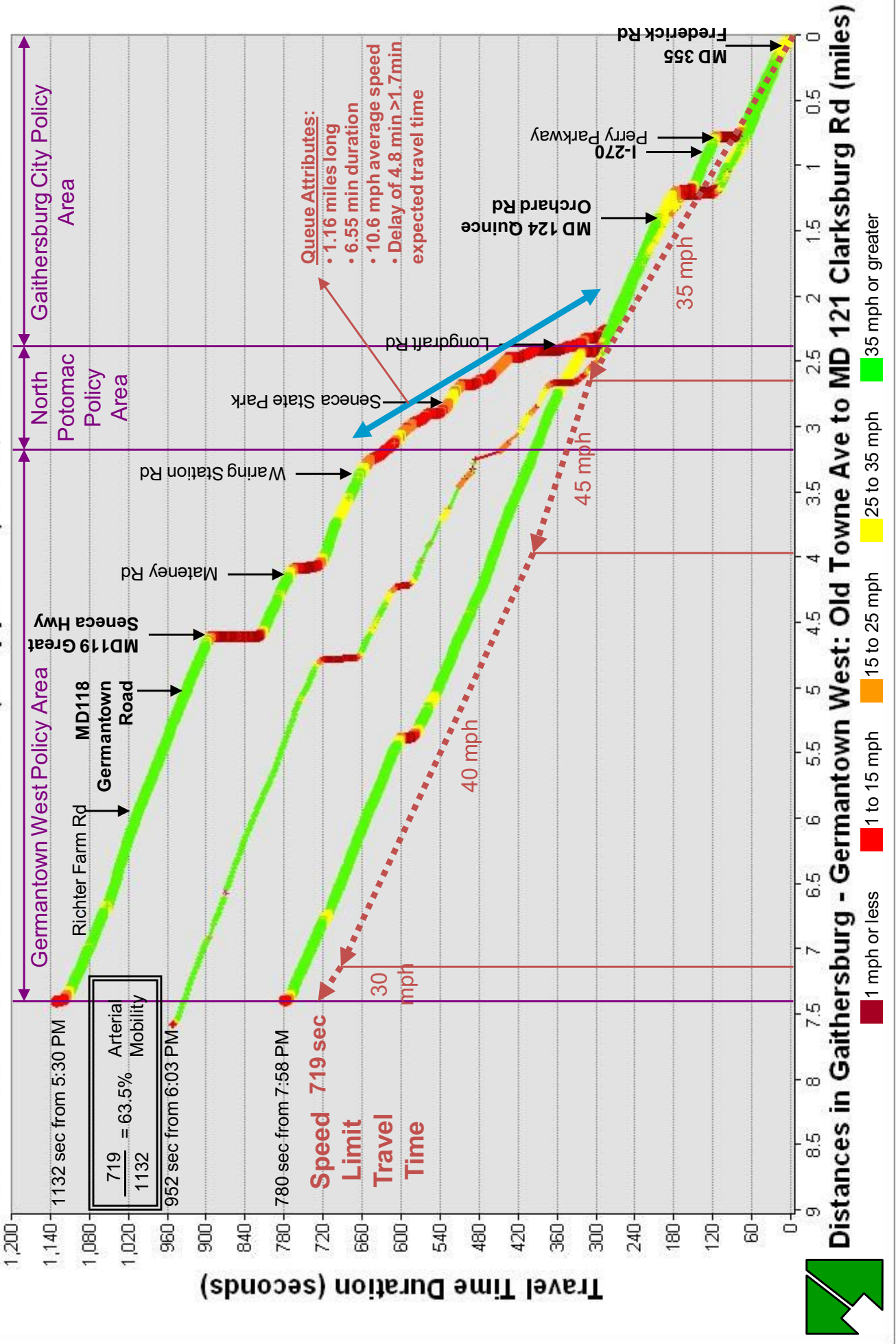
# Slow-Fast Travel Times: US 29 (Columbia Pike) Thu 5-10-07 Northbound



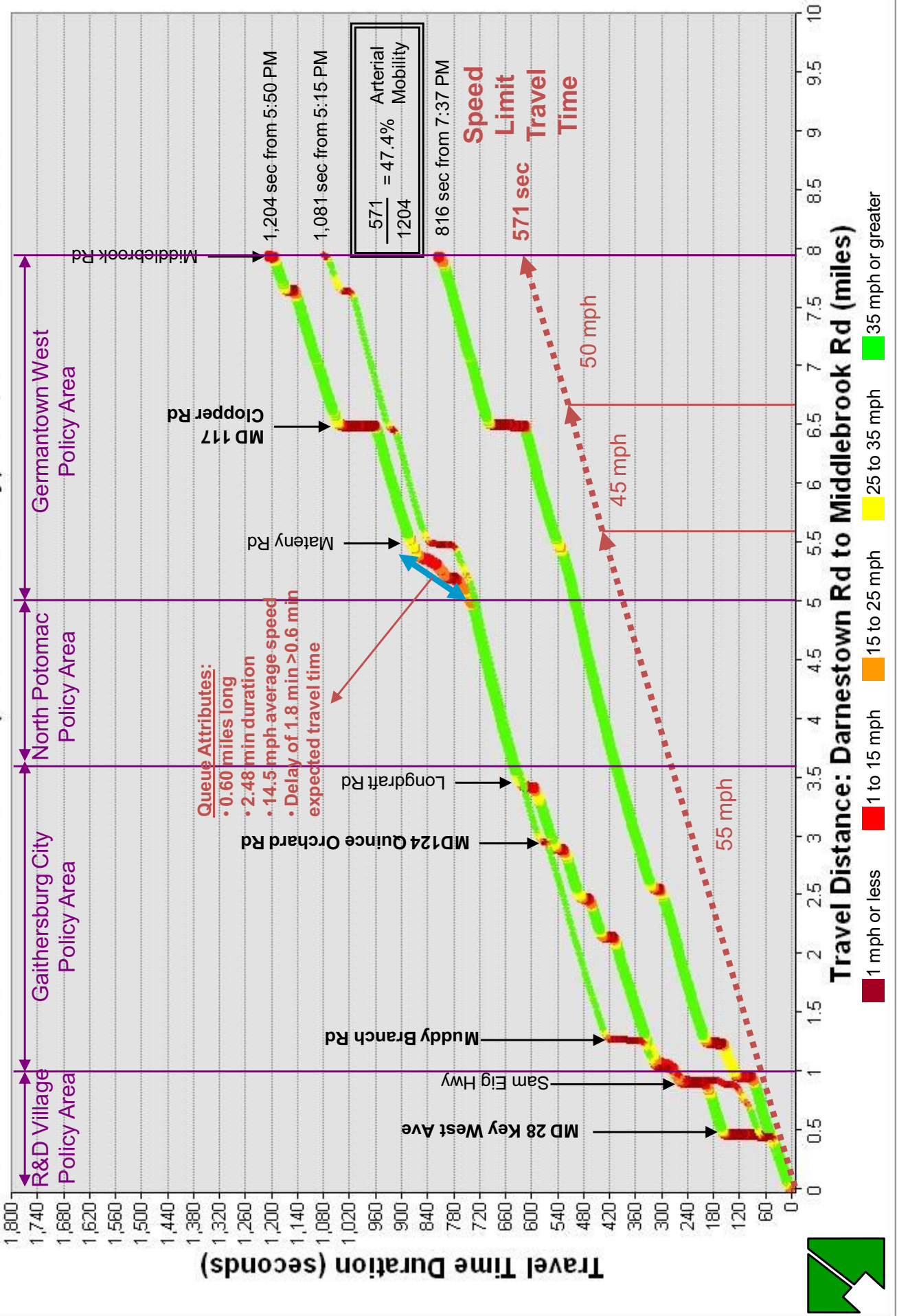
# Slow-Fast Travel Times: MD 185 (Connecticut Ave) Mon, 6-4-07 Northbound



# Slow-Fast Travel Times: MD 117 (Clopper Rd) Mon, 5-21-07 Westbound



# Slow-Fast Travel Times: MD 119 (Gt. Seneca Hwy) Tue, 5-22-07 Northbound



## Pipeline of Approved Residential Development

by Unit Type and Policy Area  
 Montgomery County and Policy Areas

Source: M-NCPPC, Research & Technology Center, Pipeline of Approved Development, 2008 Base.  
 as of: February 29, 2008

Policy Area*	Approved Unit Type				Total	Remaining Unit Type				Total
	Detached Single Family	Townhouse	Multifamily	Total		Detached Single Family	Townhouse	Multifamily	Total	
Aspen Hill	90	54	46	190	58	48	46	152		
Bethesda Central Business District	4	12	1,161	1,177	4	12	1,161	1,177		
Bethesda/Chevy Chase	35	39	240	314	20	17	240	277		
Clarksburg	4,946	2,249	2,031	9,226	3,737	942	1,890	6,569		
Cloverly	87	0	0	87	62	0	0	62		
Damascus	58	52	0	110	57	52	0	109		
Derwood	142	256	196	594	142	256	196	594		
Fairland/White Oak	101	386	0	487	75	302	0	377		
Friendship Heights	0	200	733	933	0	200	733	933		
Gaithersburg City	1,134	1,478	3,223	5,835	390	1,131	3,223	4,744		
Germantown East	7	192	0	199	3	129	0	132		
Germantown West	1,159	217	491	1,867	218	168	179	565		
Germantown Town Center	0	0	604	604	0	0	172	172		
Glenmont	0	0	0	0	0	0	0	0		
Grosvenor	0	112	473	585	0	112	0	112		
Kensington/Wheaton	518	446	45	1,009	511	446	45	1,002		
Montgomery Village/Montgomery Airpark	22	32	0	54	21	3	0	24		
North Bethesda	41	0	1,480	1,521	10	0	860	870		
North Potomac	67	85	0	152	64	67	0	131		
Olney	226	103	241	570	188	103	141	432		
Potomac	208	165	547	920	116	42	467	625		
Research & Development Village	4	0	168	172	4	0	52	56		
Rockville City	49	59	4,259	4,367	49	28	3,516	3,593		
Shady Grove	6	36	0	42	6	36	0	42		
Silver Spring Central Business District	0	0	2,721	2,721	0	0	2,578	2,578		
Silver Spring/Takoma Park	23	132	169	324	22	100	169	291		
Twinbrook	0	0	0	0	0	0	0	0		
Wheaton Central Business District	0	0	180	180	0	0	180	180		
White Flint	0	0	1,973	1,973	0	0	1,973	1,973		
Rural	1,282	75	0	1,357	1,081	55	0	1,136		
<b>Total</b>	<b>10,209</b>	<b>6,380</b>	<b>20,981</b>	<b>37,570</b>	<b>6,838</b>	<b>4,249</b>	<b>17,821</b>	<b>28,908</b>		

Note: The Pipeline of Approved Residential Development is the number of housing units that have been approved but not yet built in Montgomery County at a given point in time.

## Pipeline of Approved Commercial Development

### Summary by Policy Area

#### Montgomery County, Maryland

Source: M-NCPPC, Research & Technology Center, *Pipeline of Approved Development*, 2007 Base, as of: January 3, 2008

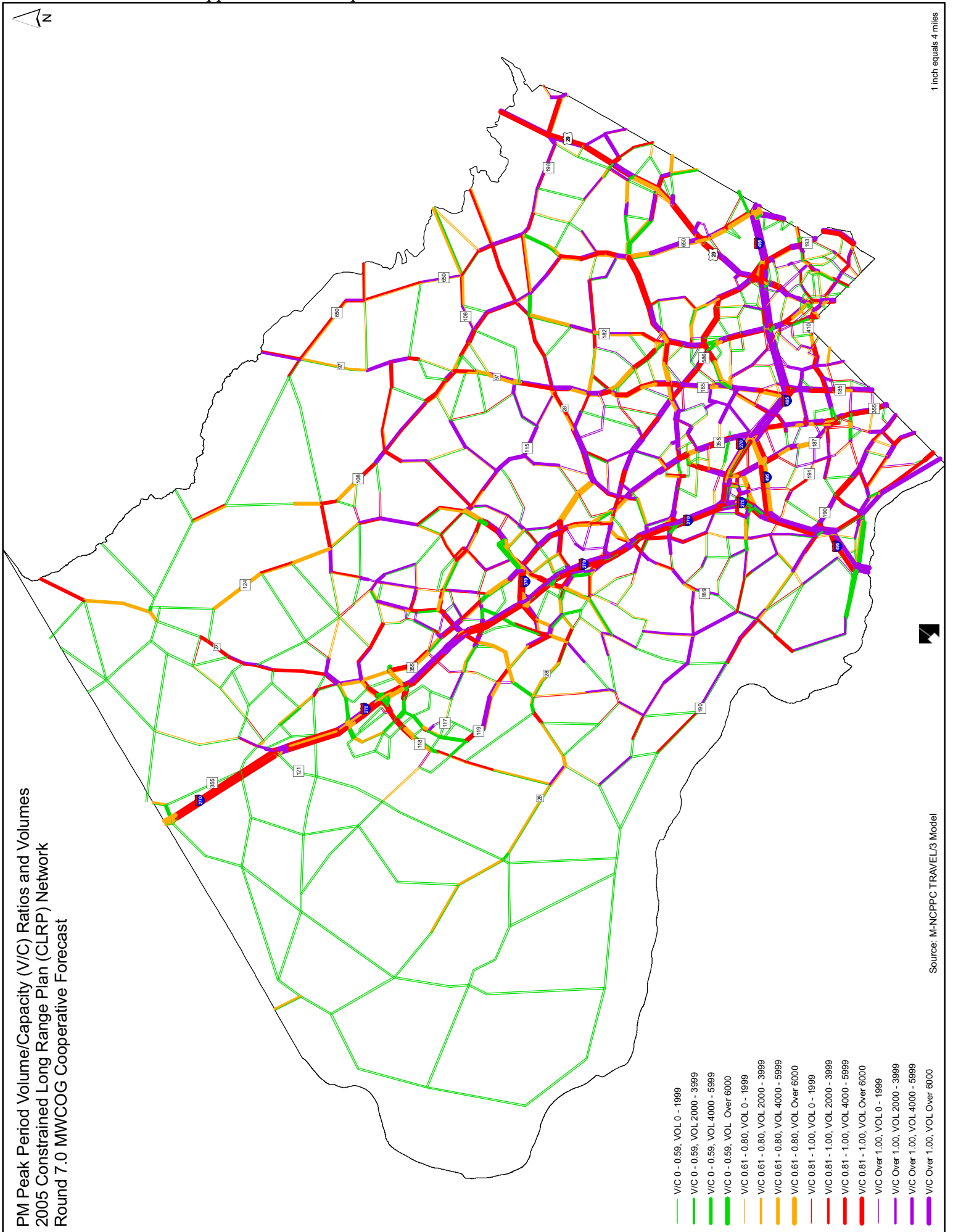
Policy Area	Square Feet		Estimated Job Capacity		Estimated Job Capacity by Development Type			
	Approved	Remaining	Approved	Remaining	Office	Retail	Industrial	Other
Aspen Hill	62,986	62,986	80	80	0	75	0	5
Bethesda Central Business District	327,845	303,514	587	525	3	420	0	102
Bethesda/Chevy Chase	299,023	299,023	1,203	1,203	860	268	0	75
Clarksburg	2,902,000	2,365,139	11,210	9,063	8,405	648	0	10
Cloverly	103,000	103,000	10	10	0	0	0	10
Damascus	3,162	3,162	13	13	13	0	0	0
Derwood	427,775	409,925	1,572	1,522	1,389	10	123	0
Fairland/White Oak	4,975,839	2,879,884	17,342	9,581	9,041	146	128	266
Friendship Heights	760,055	760,055	3,058	3,058	2,670	347	0	41
Gaithersburg City*	4,784,620	3,871,526	16,801	13,911	11,840	1,647	222	202
Germantown East	3,059,378	1,949,829	10,826	7,975	7,643	316	0	16
Germantown West	1,701,740	1,468,640	6,642	5,846	5,714	48	0	84
Germantown Town Center	21,929	16,877	140	128	29	24	0	75
Glenmont	8,585	8,585	17	17	0	0	0	17
Grosvenor	0	0	0	0	0	0	0	0
Kensington/Wheaton	54,766	51,486	159	151	30	75	32	14
Montgomery Village/Montgomery Airpark	1,322,613	1,268,925	3,843	3,776	1,263	32	1,014	1,466
North Bethesda	1,752,554	1,752,554	6,017	6,017	4,544	850	-43	667
North Potomac	40,000	40,000	160	160	160	0	0	0
Olney	576,035	576,035	310	310	0	30	0	280
Potomac	1,350,000	1,350,000	3,673	3,673	1,880	1,613	0	181
Research & Development Village	4,086,667	2,147,647	12,827	6,915	346	0	5,060	1,509
Rockville City*	5,168,201	5,078,488	18,025	16,711	15,099	871	177	564
Shady Grove	0	0	75	75	0	0	0	75
Silver Spring Central Business District	1,827,973	986,324	3,767	2,420	1,563	338	210	309
Silver Spring/Takoma Park	232,171	203,445	334	334	213	49	21	51
Twinbrook	447,914	447,914	1,280	1,280	1,280	0	0	0
Wheaton Central Business District	4,000	4,000	10	10	0	10	0	0
White Flint	1,780,415	1,780,415	5,937	5,937	4,592	1,098	0	247
Rural	599,568	546,924	1,128	999	246	617	0	136
<b>Total</b>	<b>38,680,814</b>	<b>30,736,302</b>	<b>127,047</b>	<b>101,699</b>	<b>78,823</b>	<b>9,530</b>	<b>6,944</b>	<b>6,402</b>

**Note:** The *Pipeline of Approved Commercial Development* is the total square footage and estimated job-generating capacity of office, retail, industrial and other commercial development projects that have been approved but not yet built in the County. Approved square footage is converted to job estimates using standard square-foot-to-job multipliers for a given type of development, unless the developer has agreed to limit the number of jobs in a project.

**Derivation of Year 2012 PAMR Results by Policy Area**

Policy Area	Relative Arterial Mobility				Relative Transit Mobility				
	VMT	VHT (free-flow)	VHT (congested)	Free-Flow Speeds	Congested Speeds	Relative Arterial Mobility	Average Arterial Travel Time	Average Transit Travel Time	Relative Transit Mobility
Aspen Hill	161,213	4,817	10,223	33.5	15.8	47%	35.9	52.4	69%
Bethesda/Cherry Chase	376,903	14,428	32,661	26.1	11.5	44%	26.1	36.0	73%
Clarksburg	89,934	2,823	4,162	31.9	21.6	68%	38.2	73.3	52%
Cloverly	67,482	1,711	2,342	39.4	28.8	73%	38.2	62.8	61%
Damascus	69,936	1,679	2,275	41.7	30.7	74%	44.8	92.7	48%
Derwood	124,044	4,305	9,192	28.8	13.5	47%	33.5	47.3	71%
Fairland/White Oak	350,177	9,312	22,124	37.6	15.8	42%	35.3	58.3	61%
Gaithersburg City	222,111	8,005	18,137	27.7	12.2	44%	29.4	53.1	55%
Germentown East	94,819	3,189	6,812	29.7	13.9	47%	33.7	65.1	52%
Germentown West	125,987	4,296	7,022	29.3	17.9	61%	34.4	58.4	59%
Kensington/Wheaton	417,941	13,091	27,484	31.9	15.2	48%	32.0	44.7	72%
Montgomery Village/Airpark	105,663	3,539	7,022	29.9	15.0	50%	36.6	61.1	60%
North Bethesda	210,721	8,815	20,816	23.9	10.1	42%	25.7	38.0	68%
North Potomac	58,199	2,095	4,010	27.8	14.5	52%	35.5	60.7	58%
Olney	144,206	3,985	7,909	36.2	18.2	50%	41.7	62.2	67%
Potomac	189,873	5,613	13,564	33.8	14.0	41%	32.6	50.9	64%
R & D Village	59,491	2,385	4,157	24.9	14.3	57%	27.1	49.7	55%
Rockville City	263,083	10,857	23,895	24.2	11.0	45%	27.5	43.8	63%
Silver Spring/Takoma Park	229,564	9,063	18,939	25.3	12.1	48%	28.3	38.9	73%
Rural East	475,864	12,139	22,097	39.2	21.5	55%	43.0	66.3	65%
Rural West	212,900	5,703	8,425	37.3	25.3	68%	42.5	74.2	57%
<b>Montgomery County Total</b>	<b>4,050,111</b>	<b>131,850</b>	<b>273,268</b>	<b>30.7</b>	<b>14.8</b>	<b>48%</b>	<b>33.5</b>	<b>48.0</b>	<b>70%</b>

Relative Arterial Mobility measures total PM Peak Period vehicular travel on arterial roadways within each policy area  
 Relative Transit Mobility measures AM Peak Period travel times for journey-to-work trips originating within each policy area  
 VMT = Vehicle Miles of Travel  
 VHT = Vehicle Hours of Travel





Appendix 5.4: CTP and CIP Project Status as of April 2008

Construction Projects (State & County)			AGENCY DETAILS	% comp/status
PROJECT NAME	LOCATION/LIMITS	AGENCY	DETAILS	
Stringtown Road Extended	MD 355 to I-270 ramps at MD 121	County	New 4-lane arterial road	99%
I-495 Ramps @ University Blvd*		State	WB off-ramp modified to allow access to SB MD 193	96%
MD 396	MD 614 to Onodaga Rd	State	Resurfacing, safety improvements	95%
I-495 Ramps @ Georgia Ave*		State	EB off-ramp widening to 2 lanes	87%
Montrose Pkwy West	E. of Tildenwood to MD 187	County	New 4-lane arterial road	79%
Fairland Rd*	US 29 to County Line	County	Widening from 2 to 3 lanes	59%
Travilah Rd - Phase 1*	MD 28 to Duffief Mill Rd	County	Reconstruction	47%
Greencastle Rd*	Greencastle Ridge Terr to Fairland Park	County	Widening from 2 to 4 lanes	38%
MD 650 @ Holton Lane*	to Merrimac Dr 800' e/w of MD 650	State	NB left turn lane construction, safety improvements	38%
Citadel Avenue Extended*	S. of Marinelli to Nicholson Ln	County	New 2-lane road	20%
MD 124 (Woodfield Rd) phase I*	S. of Airpark Rd to N. of Fieldcrest Rd	State	Widening from 4 to 6 lanes	5%
Intercounty Connector*	I-270 to I-95/US 1	State	New 6-lane multi-modal freeway facility	0%
MD 27 @ Sweepstakes Rd/Marlboro Dr*		State	NB right turn lane construction	0%
MD 355 @ Randolph Rd/Montrose Rd (Phase I)*	Old Georgetown Rd to Maple/Chapman Ave	State	New Interchange	0%
MD 650 @ MD 97*		State	EB left turn lane (to NB MD 97) construction	0%
MD 650 @ Oakview Dr*		County	Construction of EB & WB turning lanes	0%
<b>SHA Development &amp; Evaluation (D&amp;E)</b>				
I-270 @ Watkins Mill Rd extended	Future interchange @ Watkins Mill extended	State	New interchange	PP
I-270/US 15 multi-modal study	Shady Grove Rd to N Biggs Rd	State	Multi-modal improvements	PP
I-495 Capital Beltway	American Legion Bridge (County Line) to I-270	State	Lane feasibility study	PP
MD 108 @ Fieldcrest Rd*		State	New bypass lane construction	PP
MD 115 at Bowie Mill Rd*		State	Extension of EB left turn lane	PP
MD 117 (Clopper Rd/Diamond Ave) [Phase II]	I-270 to Metropolitan Grove Rd	State	Intersection improvements, widening to 4/6 lanes	PP
MD 117 (Clopper Rd) [Phase III]	Metropolitan Grove Rd to Seneca Creek Park	State	Intersection improvements, widening to 4/6 lanes	PP
MD 124 (Woodfield Rd) [Phase I]	Fieldcrest Rd to S. of Airpark Rd	State	Widening to 6 lanes	PP
MD 124 (Woodfield Rd) [Phase II]	Mid County Hwy to Warfield Rd	State	Widening to 6 lanes	PP
MD 193 University Blvd @ MD 320*		State	EB right turn lane (to SB MD 320) construction	PP
MD 28/MD 355/MD 586/MD 911	Intersection Vicinity	State	Study to construct intersection improvements	PP
MD 28/MD198 corridor study	MD 97 and PG County Line	State	Widening to 4 lanes	PP
MD 355/Montrose Rd/Randolph Rd/CSX RR		State	New interchange	PP
MD 586 (Veirs Mill Rd) @ Twinbrook Pkwy*		State	SB through lane, right turn lane construction, and	PP
MD 650 @ Adelphi Rd*		State	WB right turn lane construction	PP
MD 97 (Brookville Bypass)		State	EB lane construction	PP
MD 97 @ MD 28*	MD 97 to N. of Town of Brookeville	State	Reconstruction of MD 97 as a bypass road	PP
MD 97 @ Randolph Rd		State	SB 2nd left turn lane construction	PP
US 29 @ Blackburn Rd		State	New interchange	PP
US 29 @ Fairland/Musgrove Rd		State	New interchange	PP
US 29 @ Greencastle La		State	New interchange	PP
US 29 @ Stewart La		State	New interchange	PP
US 29 @ Tech Rd/Industrial Pkwy		State	New interchange	PP

Sources: SHA DPW monthly status reports (CTP, CIP) - May 2006 to April 2008, FY 08-13 MD CTP and FY 09-14 County CIP catalogs

County DPWT Facility Planning									
MD 355 @ Twinbrook Pkwy	Chapman Ave to Randolph Rd	County	NB right turn lane construction	County	Property Acquisition				
Nebel Street Extended	Father Hurley Blvd to Crystal Rock Dr	County	Roadway extension to Randolph Rd	County	Property Acquisition				
Century Blvd Extended*		County	Roadway extension to Crystal Rock Dr	County	Participation				
Watkins Mill Rd Extended*	E. of I-270 to W. of I-270	County	Construction of (non developer-funded) roadway section	County	Participation				
Burtonsville Access Rd	MD 198 to School Access Rd	County	New 2-lane road	County	Phase II FP (Design)				
Chapman Ave Extended*	N. of MD 187 to Randolph Rd	County	Roadway extension to Randolph Rd	County	Phase II FP (Design)				
Dale Dr @ Colesville Rd		County	Construct EB & WB approach lanes	County	Phase II FP (Design)				
Father Hurley Blvd Extended	Wisteria Dr to MD 118	County	Roadway extension to MD 118	County	Phase II FP (Design)				
Goshen Rd	Girard Street to Warfield Rd	County	Widening from 2 to 4/6 lanes	County	Phase II FP (Design)				
Montrose Pkwy East*	MD 187 to MD 586	County	New 4-lane arterial road	County	Phase II FP (Design)				
Randolph Rd	Gaynor Rd to Charles Rd	County	Safety improvements	County	Phase II FP (Design)				
Redland Rd	Crabbs Branch Way to Needwood Rd	County	Intersection improvements	County	Phase II FP (Design)				
S. Glen Rd @ Falls Rd		County	EB right turn lane construction	County	Phase II FP (Design)				
Snouffer School Rd*	Goshen Rd to MD 124	County	Widening from 2 to 4 lanes	County	Phase II FP (Design)				
Woodfield Rd Ext. (A-12)	Main St to MD 27	County	New 2-lane arterial road	County	Phase II FP (Design)				
Longdraft Rd	MD 124 to MD 117	County	Widening from 2 to 4 lanes	County	Phase I FP				
Midcounty Corridor Study*	MidCounty Area	County	Transportation-related improvements	County	Phase I FP				
Observation Dr	Water Discovery Ln to Stringtown Rd	County	Construction of (non developer-funded) roadway sections	County	Phase I FP				
Thompson Road Connection*	Thompson Rd and Rainbow Dr	County	New 2-lane primary road	County	Phase I FP				
<b>Completed Projects (State &amp; County)</b>									
<b>New Roads/Interchanges:</b>									
Skylark Rd*	adjacent to Ovid Hazen Wells Park	County							
US 29 @ Briggs Chaney Rd*		State							
US 29 @ MD 198 N. to Dustin Rd		State							
<b>Road Widening:</b>									
Briggs Chaney Rd*	Automobile Blvd to E. of Ashton Manor Dr	County							
<b>Grade-Separated Interchange Improvements:</b>									
I-495 @ MD 355*	Interchange Ramps	State							
<b>Intersection Improvements:</b>									
Father Hurley Blvd @ Observation Dr*		County							
MD 124 (Midcounty Hwy) @ Goshen Rd*		State							
MD 27 @ Oak Dr*		County							
MD 28 @ Wintergate Dr*	WB left turn lane construction	State							
MD 410 (Montgomery Ave)*	Pearl St to Chelton Ave	State							
MD 410 @ MD 390 (16th St)		County							
MD 586 @ MD 185 & Randolph Rd		State							
MD 614 (Goldsboro Rd) @ Radnor Rd*		State							
MD 650/FDA*	Powder Mill Rd to N. of US 29	State							
MD 97 @ Bonifant St*		County							
MD 650 @ Oakview Dr*		County							
Observation Dr @ Shakespear Blvd*		County							
Old Baltimore Rd @ Covered Wagon Way*		County							
Warfield Rd @ Plum Creek Rd*		County							

<b>Resurfacing/Rehabilitation:</b>			
I-270*	MD 189 to Muddy Branch Rd	State	
MD 109*	MD 355 to Little Monocacy River	State	
MD 193*	Rock Creek Run	State	
MD 193*	MD 320 to Lebanon Street	State	
MD 97*	I-495 to MD 586	State	
US 29*	MD 193 to Burnt Mills Ave	State	
<b>Safety/Spot Improvements:</b>			
MD 115*	MD 28 to Muncaster Rd/Redland Rd	State	
MD 198 (Spencerville Rd)*	Kruhnm Rd	State	
Muncaster Road*	Rock Creek Bridge Vicinity	County	
Old Columbia Pike*	Perrywood Dr	County	
<b>KEY/NOTES:</b>			
PP = Project Planning (State)			
TBA = Awaiting Start of Construction			
Property Acquisition = Property/Right-of-Way Acquisition Phase			
Participation = Partial developer funded/participation project			
Phase I FP = Plans < 35% Complete (County)			
Phase II FP = Plans 35% Complete (County)			
Design = Plans 35 to 100% Complete (County)			
* Denotes newly added project or change in status since May 2006			

# Staff Acknowledgements

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