



Mercer County Regional Planning Commission

*Mercer County  
Congestion Management Processes*

**PERFORMANCE MONITORING SUMMARY**

## **CMP Corridor #403**

*PA 518 / Sharpsville Avenue & SR 3020 / Lamor Road*

*(Through Sharpsville)*

Data Date: Fall / Winter 2009

## PERFORMANCE MONITORING SUMMARY FOR:

<b>CORRIDOR # 403</b>	<b>Data Date:</b>	<b>Fall / Winter 2009</b>
<b>PA 518 &amp; SR 3020 / Lamor Rd</b>	<b>Limits:</b>	SR 3008 / E State St (City of Sharon) to SR 3011 / Keel Ridge Rd (City of Hermitage)
	<b>Length:</b>	5.3 Miles
	<b>Volume:</b>	Daily = 2,700-10,200 veh/day; Hourly = 270-1,020 veh/hr

### Applicable Type(s) of Congestion (✓)

✓	Commuter / Commercial Congestion		Non-recurring Incident Congestion
✓	Town Center / Main Street Congestion		Non-recurring Special Event Congestion
✓	School Congestion		Isolated Issues / Hot-Spots

### Performance Measures (per travel time data or field recon)

---	<b>PREVIOUS UPDATE</b> (none)	---	<b>PREVIOUS UPDATE</b> (none)
(n/a)	Total Delay (veh-hr) and (County Rank)	(n/a)	Delay Rate (min / mi) and (County Rank)
<b>36</b>	<b>CURRENT UPDATE</b> (2009)	<b>0.7</b>	<b>CURRENT UPDATE</b> (2009)
<b>(8)</b>	Total Delay (veh-hr) and (County Rank)	<b>(8)</b>	Delay Rate (min / mi) and (County Rank)
<b>12.2</b>	Travel Time (minutes)	<b>7.0</b>	Stops (#)
<b>3.7</b>	Delay (minutes)	<b>1.3</b>	Stop Rate (# / mi)
<b>30</b>	Delay Ratio (%)	<b>7</b>	Total Flagged Considerations (#)
<b>26</b>	Average Speed (mph)	<b>67</b>	Estimated Sidewalk Completion (%)

### Flagged Considerations (✓)

	National Highway System		Tourism / Recreation / Special Events
✓	Transit	✓	Community Concerns / Quality of Life
✓	Pedestrian		Growth / Land Use / Economic Impacts
✓	Bicycle		Roadway Infrastructure (or related)
✓	Truck Freight	✓	Traffic Operations (or related)
✓	Rail Freight		Access / Access Control
	Incident Management		Safety or Crash Activity

### Adjacent Land Uses (% of corridor length based on segment-level occurrences)

<b>100%</b>	Residential	<b>59%</b>	Religious / Church / Cemetery
<b>81%</b>	Business / Commercial	<b>18%</b>	Health / Medical / Emergency Services
<b>27%</b>	Industrial / Manufacturing		Government / Institutional
<b>7%</b>	Educational		Other:

### *Context Description*

PA 518 through Sharpsville, connecting with SR 3020 / Lamor Road in Hermitage, is primarily a 2-lane (1-lane in each direction) “community collector” through a “town center” or “town / village neighborhood” context. Posted speed limits vary from 25-35 mph through portions of Sharon or Sharpsville, and increase to 45 mph east of PA 18 where the roadway transitions to a “suburban corridor” and then “rural places” context.

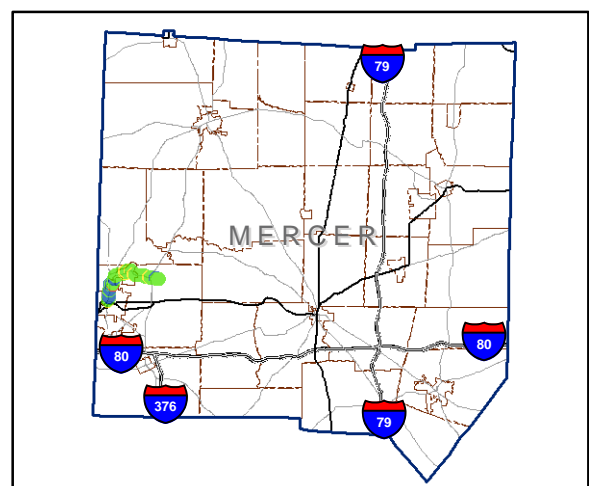
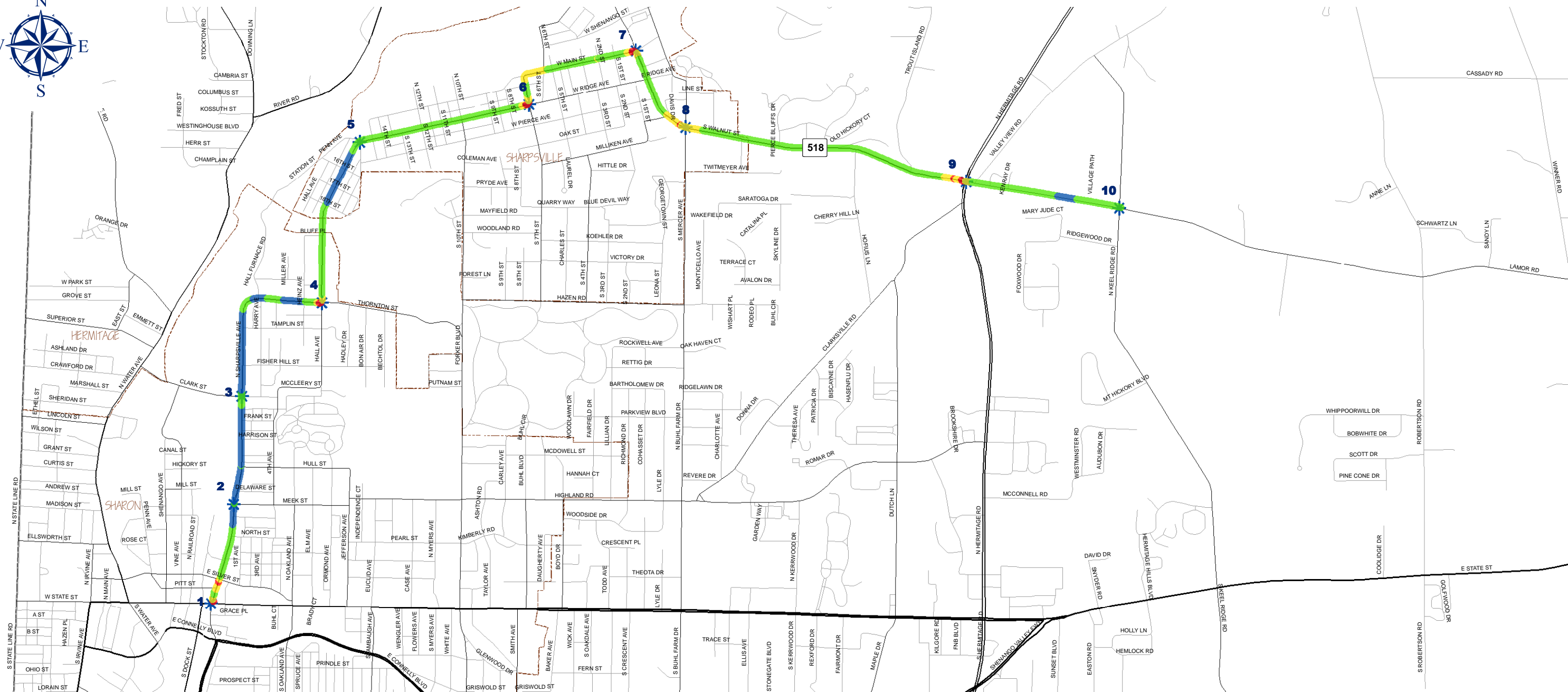
While heavy congestion and queuing along the overall route were not observed, some minor delays do occur as a natural result of travel through the town or neighborhood environments, including stops at various signal or stop-controlled intersections. It is anticipated that traffic impacts may be busier during an earlier afternoon “school” peak.

### *Other Highlights*

- On-street parking and residential access is common throughout the corridor.
- The overall route is somewhat “indirect”, including trailblazing for several 90-degree turns through Sharpsville.
- Traffic signals are “bagged” and non-operational at Pitt Street and Silver Street; these have been replaced with all-way stop-controlled intersections that appear to function with no apparent congestion.
- Possible isolated hot-spots:
  - Permissive left-turn delays at Mercer Avenue.
  - Queues and cycle failures at the PA 18 / Lamor Road intersection.

### *Change Since Previous*

- No change – data contained herein represents baseline conditions for Fall/Winter 2009 as defined during the CMP’s initial corridor assessments.
- Strategy Potential – An initial “Wish List” of Congestion Management Strategies has yet to be determined for this corridor.



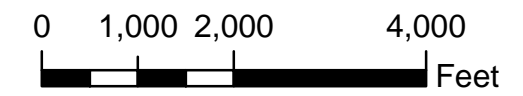
Detail 1 - County Location (N.T.S.)

**LEGEND**

- Speed-Based Congestion Estimate**
- Slowed / Stopped (Significant Congestion)
  - Slowed (Moderate Congestion)
  - Free-Flowing (Minimal Congestion)
  - Free-Flowing (No Congestion)

**Corridor Nodes, PA 518 / SR 3020 @:**

- ✳ 1, E State St (SR 3008)
- ✳ 2, Meek St
- ✳ 3, Clark St (SR 3012)
- ✳ 4, Hall Ave, Thornton St
- ✳ 5, Penn Ave, 15th St
- ✳ 6, 7th St (SR 3023)
- ✳ 7, Walnut St (SR 3018)
- ✳ 8, Mercer Ave (SR 3025)
- ✳ 9, PA 18, N Hermitage Rd
- ✳ 10, N Keel Ridge Rd (SR 3011)

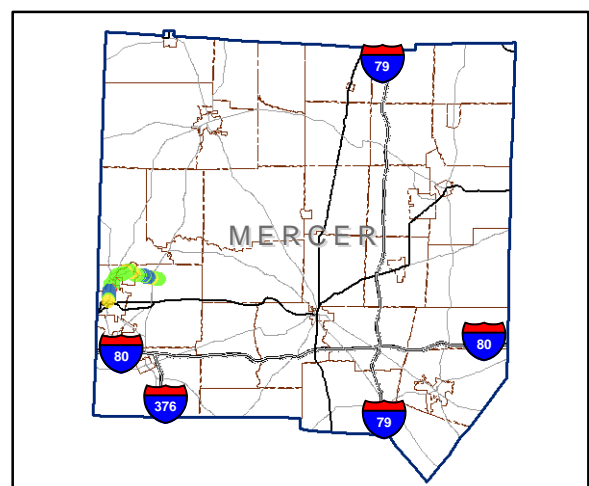
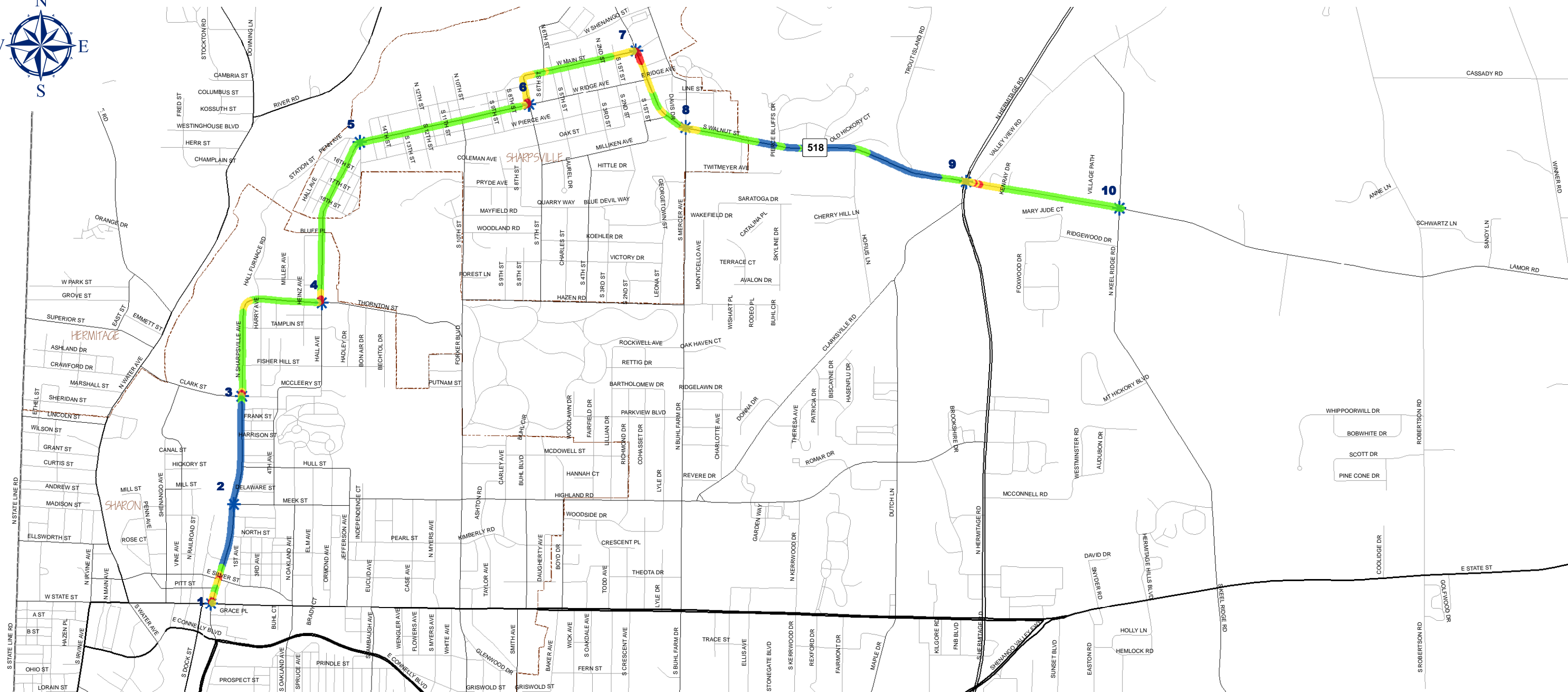


**Mercer County CMP**

**PA 518 & SR 3020 (Lamor Rd)**  
Speed Display Diagram for  
Typical Weekday PM Peak (NB)

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MCRPC *Planning for Livable Communities*

Corridor #403  
Revised 04/27/10



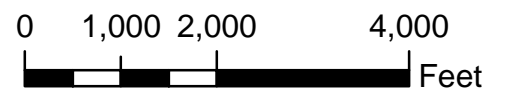
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