



Mercer County Regional Planning Commission

*Mercer County  
Congestion Management Processes*

**PERFORMANCE MONITORING SUMMARY**

**CMP Corridor #204**

*PA 18 (Hermitage to Greenville)*

Data Date: Fall / Winter 2009

## PERFORMANCE MONITORING SUMMARY FOR:

<b>CORRIDOR #204</b>	<b>Data Date:</b>	<b>Fall / Winter 2009</b>
<b>PA 18</b>	<b>Limits:</b>	PA 518 & SR 3020 (Lamor Rd) (Hermitage) to PA 358 / Main St (Greenville Boro)
	<b>Length:</b>	10.9 Miles
	<b>Volume:</b>	Daily = 7,300-12,900 veh/day; Hourly = 730-1,240 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) Total Delay (veh-hr) and ( <i>County Rank</i> )	---	<b>PREVIOUS UPDATE</b> (none) Delay Rate (min / mi) and ( <i>County Rank</i> )
(n/a)		(n/a)	
<b>13</b>	<b>CURRENT UPDATE</b> (2009) Total Delay (veh-hr) and ( <i>County Rank</i> )	<b>0.1</b>	<b>CURRENT UPDATE</b> (2009) Delay Rate (min / mi) and ( <i>County Rank</i> )
<b>(18)</b>		<b>(20)</b>	
<b>12.9</b>	Travel Time (minutes)	<b>1.0</b>	Stops (#)
<b>0.7</b>	Delay (minutes)	<b>0.1</b>	Stop Rate (# / mi)
<b>6</b>	Delay Ratio (%)	<b>5</b>	Total Flagged Considerations (#)
<b>51</b>	Average Speed (mph)	<b>2</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>85%</b>	Residential	<b>31%</b>	Religious / Church / Cemetery
<b>97%</b>	Business / Commercial	<b>15%</b>	Health / Medical / Emergency Services
<b>45%</b>	Industrial / Manufacturing		Government / Institutional
	Educational		Other:

### *Context Description*

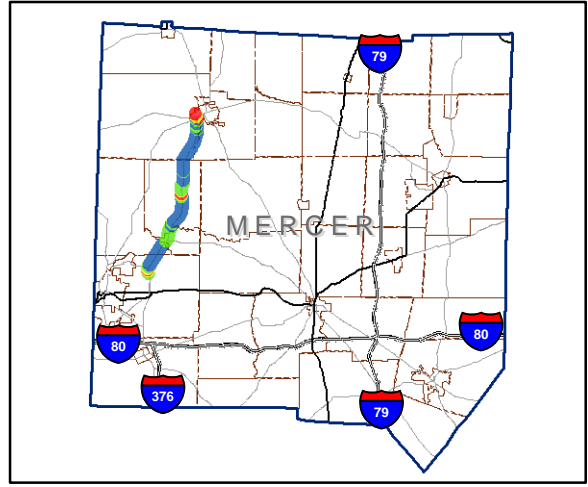
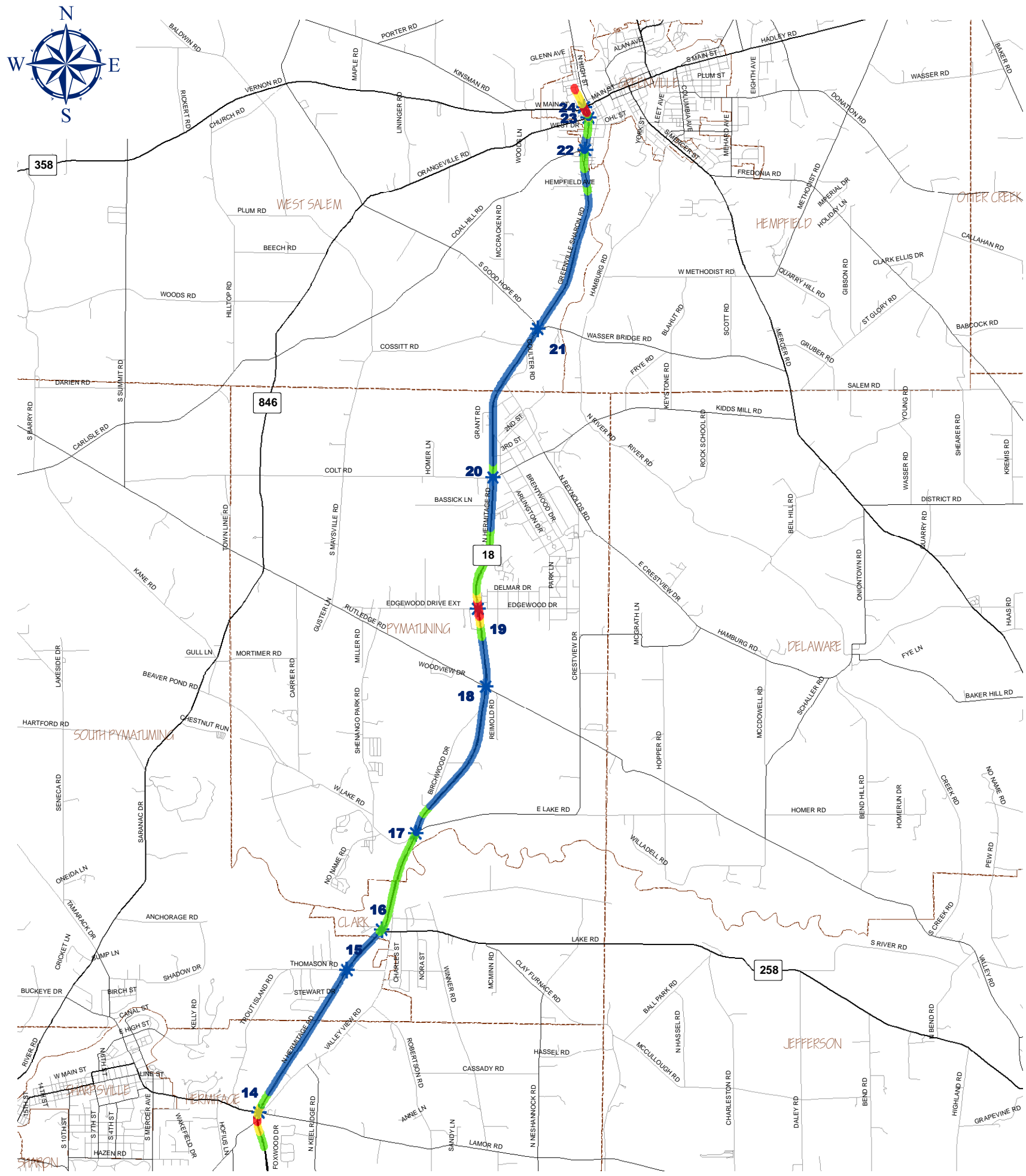
This PA 18 corridor is a “regional arterial” with 2-lanes in each direction and 45-55 mph posted speed limits through a mostly “rural places” context between Hermitage and Greenville. As the route approaches and enters Greenville, the roadway narrows to 1-lane in each direction with posted speeds of 25-40 mph through a “suburban corridor” and then a “town / village neighborhood” context. Although it is estimated that the heaviest traffic flows coincide with a typical weekday afternoon commuter peak, recurring delays throughout the corridor are essentially negligible.

### *Other Highlights*

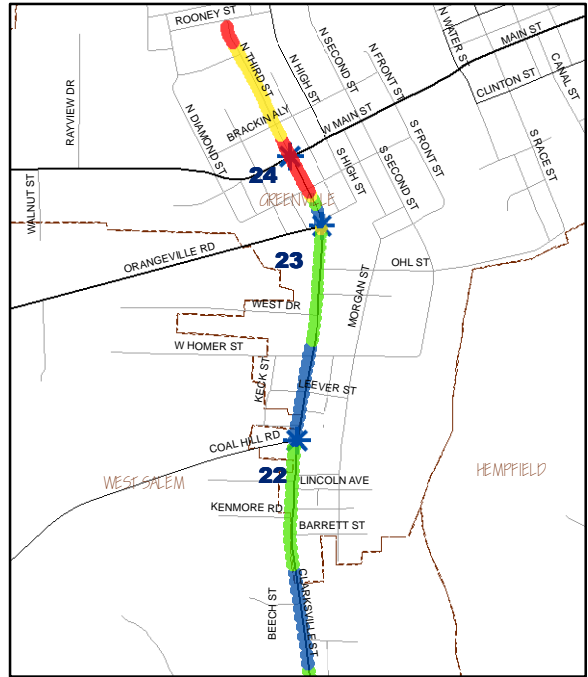
- Several jug-handles were utilized for turn-access throughout the corridor.
- Possible isolated hot-spots:
  - Non-specific community concerns have been cited regarding “safety” at the PA 18 exit to East Lake Road.

### *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.)



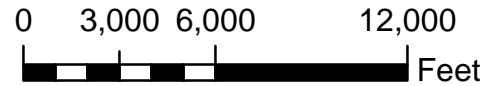
Detail 2 - Greenville (N.T.S.)

**LEGEND**

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

- Corridor Nodes, PA 18 @:**
- \* 24, PA 358, W Main St
  - \* 23, PA 846, Orangeville St
  - \* 22, Coal Hill Rd (SR 4002)
  - \* 21, S Good Hope Rd (SR 4003)
  - \* 20, Colt Rd, Reynolds Ind Pk Rd
  - \* 19, Edgewood Dr
  - \* 18, Rutledge Rd (SR 3022)
  - \* 17, W Lake Rd, E Lake Rd
  - \* 16, PA 258, Lake Rd
  - \* 15, Thomason Rd
  - \* 14, PA 518, Lamor Rd (SR 3020)

Note: Nodes 14-24 are numbered intentionally as a continuation of nodes 1-14 that are listed separately under Corridor #203, PA 18 (Through Hermitage).

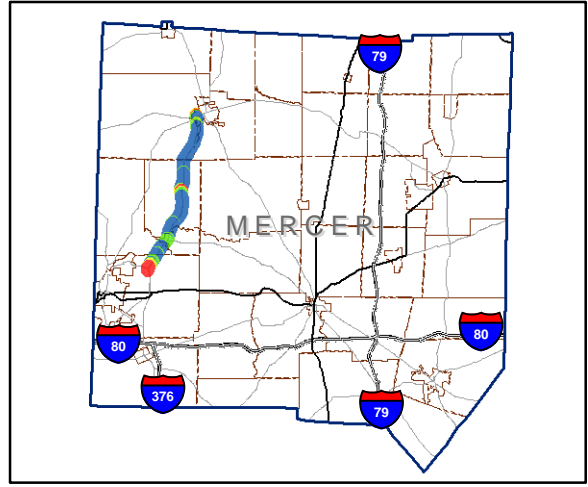
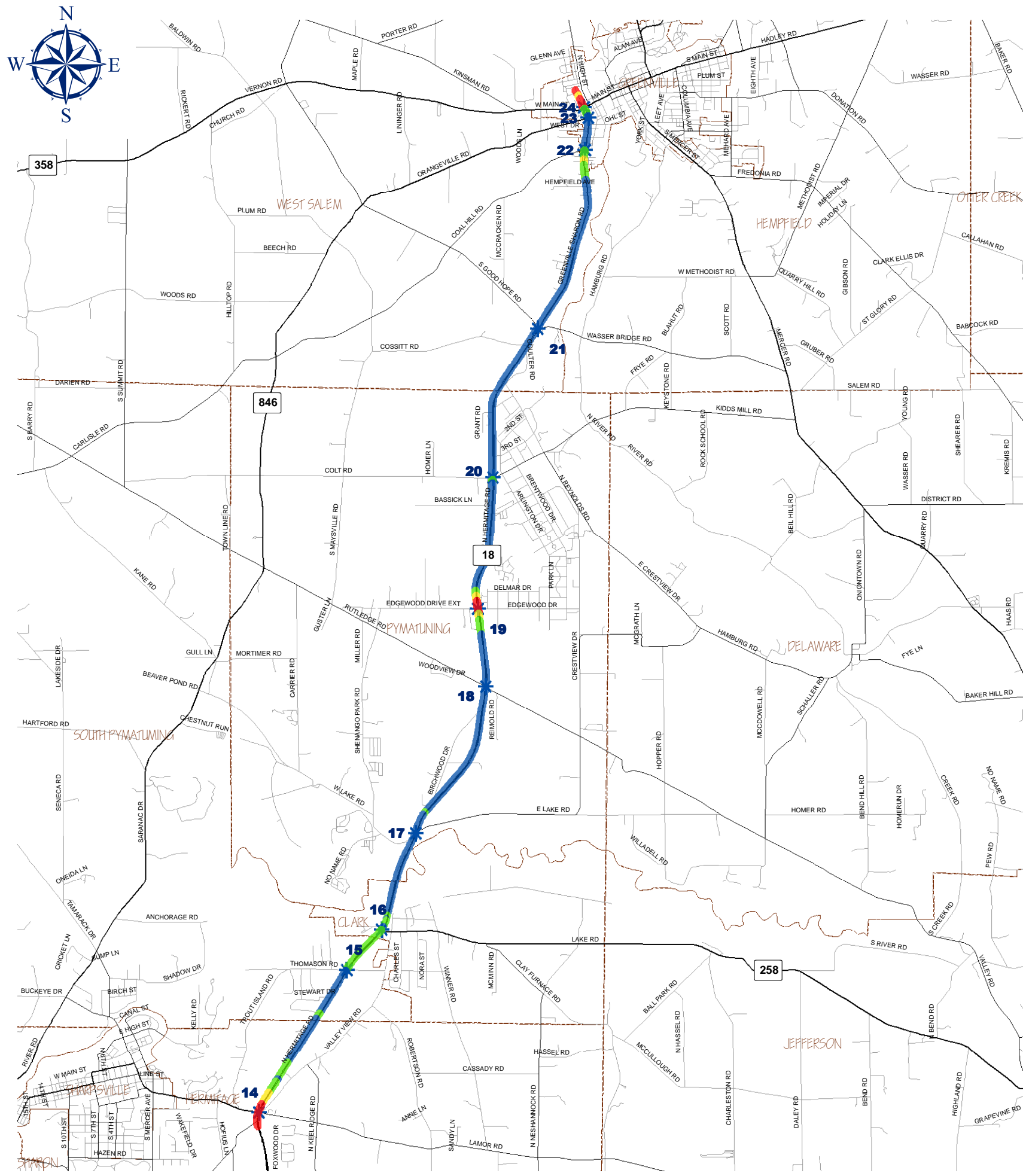


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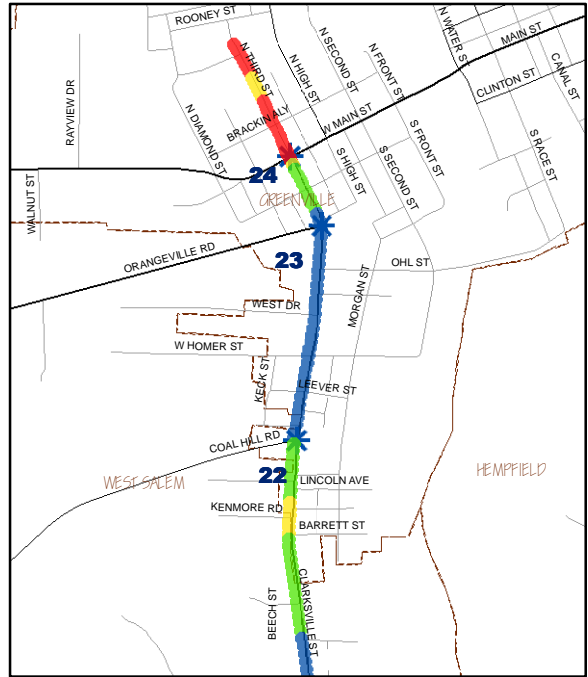
**PA 18 (Hermitage to Greenville)**  
Speed Display Diagram for  
Typical Weekday PM Peak (NB)

Corridor #204

Revised 04/27/10



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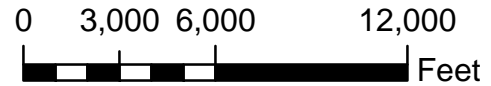
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**PA 18 (Hermitage to Greenville)**  
Speed Display Diagram for  
Typical Weekday PM Peak (SB)

Corridor #204

Revised 04/27/10

