The Southwestern Pennsylvania Commission’s (SPC) Regional Traffic Signal Program was established to assist local municipalities with improving traffic signal operations by optimizing signal timings and upgrading existing signal equipment. **The Ambridge Borough Signals In Coordination with Equipment Upgrades (SINC-UP) Project** is a traffic signal project with the goal of optimizing signal operations at intersections along the 8th Street and Merchant St corridors while considering all users of the intersections [See map below for project area].

Due to the low vehicular volume along many of Ambridge Borough’s streets, the traffic signals at Merchant St & 6th St and Merchant St & 3rd St/Duss Ave intersections were recommended for removal and replaced with all-way stop control. The remaining signals were upgraded with new controller cabinets, new vehicular signal heads and one-way street signs to meet industry signalization and signing standards.

**Operational Benefit**

- **9,000** vehicles travel 8th Street on an average day
- **4,254** reduced vehicle hours of travel
- **$48,406** Operational Benefit

**Traffic Signal Removal Cost Savings**

- Approximately **$4,500/year**
- **2:1** Benefit Cost Ratio

**Operational Benefits**

- Reduced travel time, emissions, stops & fuel consumption
- Includes savings on electricity and maintenance costs

**Operational Benefits**

- **Maplewood Ave & 8th St**
- **Merchant St & 8th St**
- **Merchant St & 6th St**
- **Merchant St & 4th St**
- **Merchant St & 3rd St/Duss Ave**

**Corridor Length:** Approx. 0.60 miles

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**PROJECT LOCATION**

Beaver County

**SOUTHWESTERN PENNSYLVANIA COMMISSION**

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**PROJECT PARTNERS**

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Pennsylvania Department of Transportation, District 11-0
Ambridge Borough
Beaver County
Whitman, Requardt & Associates, LLP

**JULY 2019**