

**ROAD CONSTRUCTION
ASPHALT**

GRANNAS BROS.

**CRUSHED STONE
HOLLIDAYSBURG, PA**



Granite Bros. Construction **ASPHALT**

Blair County — Rural interstate North of Altoona

- Paving 1.5 miles of road (including 1.5 miles of shoulders)

Included 15 Miles of Highway Lighting & Signage Upgrades

80% of the project was concrete patching, 5" 19.5mm leveling, 2.5" 19mm binder leveling and 1.5" 9.5mm SMA wearing course.

100% Warm Mix Asphalt was crack & seal, 1" 9.5mm SMA base course, 2.5" 19mm binder leveling, and 1.5" 9.5mm SMA wearing course.

- Constructed with 100% Warm Mix Asphalt

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Paved Road History:
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Original New Construction:

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10' 4" OG Subbase

6" 2A Subbase

1996 Concrete Pavement Patching

• 2008 Concrete

• concrete patching, crack & seal, and bituminous overlay

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CRACK & SEAL ROAD CONSTRUCTION ASPHALT

- Northbound – 2.3 miles & Southbound – 2.7 miles (10 total lane miles)

• Concrete to develop

- Sawing of dowel bars (longitudinal joints & transverse joints)
- Cracking of the concrete
- Roll with pneumatic tire roller
- Reflection test

• 1.5" leveling course

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- 4" 25mm base course
- 2.5" 12mm leveling course
- 1.5" 9.5mm 5.4A wearing course (66-12)

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After Action Review ROAD CONSTRUCTION

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• Faster / Less User Delays--eliminated concrete patching on the front / loading on the back end

• Less Cost - Cheaper than reconstruction

• Less Maintenance

• Eliminated the need for joint repairs and/or concrete repairs below the new bit

• Eliminated the surface saw & seal joints. In turn, significantly decreased the chances of water infiltration.

- Strongly feel as though this option is cheaper from a lifecycle standpoint
- Smoother--due to no saw & seal joints

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