Asphalt Rubber SAM
(Stress Absorbing Membrane)
Spring 2014

Customer / Road:
Town of Barnstable, MA - Town-wide Program

Road Type / Condition:
The town-wide program included 21 town roads of varying types and conditions. Road types included main connectors, residential side streets, and neighborhood dead-ends. The AADT on the roads covered a broad range from from less than 250 to over 2000 vehicles per day. The existing pavement, constructed of a combination of HMA overlays and chip seals, were in overall fair to good condition with minor to moderate cracking and minor rutting.

Scope of Work:
In advance of the Asphalt Rubber SAM, the roads were prepared as needed including crack sealing of cracks greater than 1/8", shimming to repair any rutting or profile issues, structure adjustment, and removal of pavement markings. After 2-3 weeks, the roads were treated with an Asphalt Rubber SAM. This treatment involves the application of .55 gal/sy of 20% crumb rubber modified asphalt followed by a layer of heated and treated 7/16” aggregate. The surface is then rolled, swept immediately to remove any loose aggregate, and re-opened to traffic.

Treatment Selection & Benefits:
The town of Barnstable has been utilizing the Asphalt Rubber SAM treatment on their town roads for over 10 years. They have been extremely pleased with the performance of the treatment, especially its ability to seal the surface and preserve the existing pavement. Additionally, heavy seasonal traffic between June 1 and early September greatly limit the timeframe when work can be completed on town roads. For this reason, the town greatly values the quick application of the Asphalt Rubber SAM process.