Bonded Wearing Surface Course

What it is

Bonded wearing surface course (BWSC) is a high-performance ultrathin overlay that seals the existing road surface and provides a new, skid-resistant, smooth, and thin (5/8" to 3/4") hot mix asphalt (HMA) wearing course in one simultaneous operation. The tack coat is spray applied immediately prior to the application of the wearing course to produce a durable wearing surface that can be opened to traffic. For this type of work cast iron structures in the street will have to be reset to final grade prior to application of this treatment.

Process

- Pavement failure areas are dugout and repaired.
- Streets are cleaned of vegetation or debris, and cracks are filled with crack sealant.
- Existing traffic stripes and markings are removed.
- Manholes and other utility valve covers are adjusted to final grade.
- Then the Bonded Wearing Course consisting of a warm polymer modified asphalt emulsion bond coat followed immediately with an ultra-thin hot mix asphalt wearing course is applied.
- Several weeks later, permanent striping is replaced.

Impact to Residents

Preparation activities such as repair of damaged pavement and crack sealing may begin as early as 3-4 weeks in advance. Traffic delays can be expected during repair of pavement failure areas; however, roads are typically not closed. For the Bonded wearing Course process, the road is closed to traffic. The road will be reopened once the mixture is cured, typically within 1-2 hours. Alternate routes are advised to avoid traffic and will be posted on the street if necessary.

Residents can expect to be notified via door hanger notices at least 72 hours prior to the treatment. Vehicles may not be parked on affected roads on the day of the treatment application; however, they may be parked outside of the construction zone if you plan to use them that day. Residents with special needs may contact the Town (jcormier@concordma.gov) beforehand to plan accordingly. All work is coordinated with transit and waste providers to minimize impacts to service.