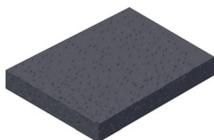




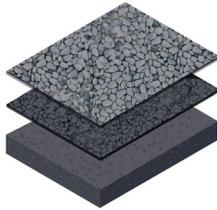
MEMORIAL HIGHWAY IMPROVEMENTS

Newsletter #7
*Let's learn about the
current roadway conditions*

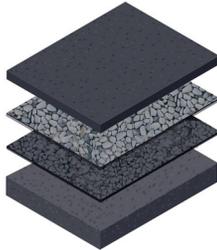
Assessing Current Roadway Conditions



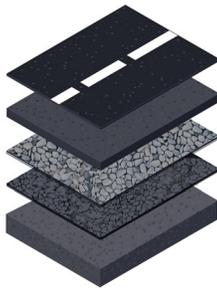
The current roadway was constructed in 1979. An asphalt roadway section typically has a 20 year design life consisting of hot bituminous material (asphalt) placed on an aggregate base.



A chip seal treatment was applied in 1985 and 1996. Chip seal is a surface treatment process where a thin layer of asphalt is applied with a layer of fine aggregate (sand, gravel crushed stone) to renew the surface of the road.



In 2009, a two-inch asphalt overlay was applied to the deteriorating surface. Rather than tearing up an old asphalt surface entirely, the asphalt overlay project used the existing layers as a base for the new asphalt pavement.



The roadway was microsurfaced in 2013. Microsurfacing is a process that is applied in order to help preserve and protect the underlying pavement structure and provide a new driving surface. Roads chosen for microsurfacing application generally have low to moderate distress and narrow crack width.

How long does pavement last?

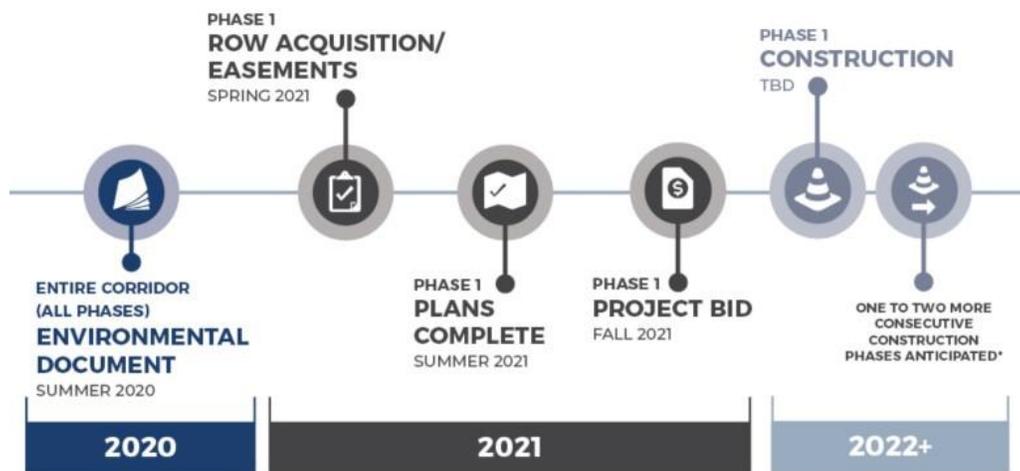
The “life” of asphalt pavement is typically 15-20 years with concrete surfacing lasting as long as 30 years. The lifespan of the pavement on Memorial Highway has been extended over the years due to the overlays and microsurfacing, however, it is nearing the end of its useful life.



Why not just overlay again?

Preventative maintenance techniques such as overlays lose their effectiveness in preserving the pavement after a certain point. In addition, overlays do not address the additional concerns on this corridor including safety enhancements or drainage concerns. The project team is evaluating concrete for the roadway surface based on longer lifespan and reduced maintenance costs. More information on surfacing materials will be shared as the project progresses.

Here's what's next...



The North Dakota Department of Transportation has created a website for the project. Visit dot.nd.gov/projects/memorialhwy for more information. To submit comments, email input@memorialhighwayproject.com. Periodic updates will also be posted to the cityofmandan.com website.

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