

City of  
Battle Creek



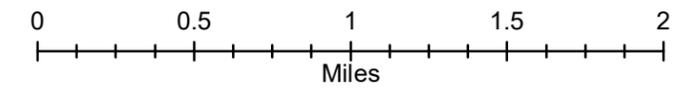
# Emmett Township

## Local Road Improvement Proposed Phase I Road Projects (2020 Construction Season)

### Proposed Treatment

- CMHO 1.5
- CMHO 2.0
- CMHO 3.5
- CSC 3.5
- HMA 1.5
- HMA 2.0
- HMA 2.5
- HMA 3.0
- Micro-Surface
- Regravel (5")

**NOTE: Schedule is preliminary.  
Roads and treatments are subject to change.**



Map Created by: Calhoun County GIS  
315 W Green St, Marshall MI 49068 | 269-781-0749  
Map Date: 8/20/2019

## Treatment Explanations

**CMHO1.5** – Cold Mill Hot Overlay. This work consists of milling and removing 1.5 inches of the existing asphalt and replacing it with 1.5 inches of new asphalt.

**CMHO2.0** - Cold Mill Hot Overlay. This work consists of milling and removing 2 inches of the existing asphalt and replacing it with 2 inches of new asphalt.

**CMHO3.5** - Cold Mill Hot Overlay. This work consists of milling and removing 3.5 inches of the existing asphalt. In many cases, this will be deep enough to remove all the asphalt. 3.5 inches of new asphalt will then be placed in two layers, the first being 2 inches and the last being 1.5 inches.

**CSC3.5** – Crush, Shape, and Compact. This work consists of pulverizing the existing asphalt into a gravel like substance. This crushed asphalt will then act as the new road base. In some locations additional gravel may be added on top of the crushed asphalt. Once this new base is graded and compacted, 3.5 inches of new asphalt will be placed. This asphalt will be installed in two lifts, the first being 2 inches thick and the last being 1.5 inches thick.

**HMA1.5** – Hot Mix Asphalt overlay. This work consists of overlaying the existing roadway with 1.5 inches of new asphalt.

**HMA2.0** – Hot Mix Asphalt overlay. This work consists of overlaying the existing roadway with 2.0 inches of new asphalt.

**HMA2.5** – Hot Mix Asphalt overlay. This work consists of overlaying the existing roadway with 2.5 inches of new asphalt.

**HMA3.0** – Hot Mix Asphalt overlay. This work consists of overlaying the existing roadway with 3.0 inches of new asphalt.

**Micro-Surface** – Micro-surfacing are mixtures of asphalt emulsions, dense-graded aggregate, mineral filler and water that are applied as a thin overlay to an existing road surface to correct aging, wear and wheel path rutting

**Regravel (5")** – This work consists of adding 5 inches of new gravel to an existing gravel road.

All treatments may or may not include deberming. This is the process of removing overgrown vegetation from the side of the road that has built up over time. This vegetation and organic matter must be removed in order for the road to properly drain. Deberming will be completed as needed.