



MEMORANDUM

TO: Steve Salwei
Director of Transportation Programs

FROM: Rob Rayhorn
Dickinson District

DATE: June 3, 2019

SUBJECT: Change in Scope Request
ND 67, Jct. 12 at Scranton N Approx 15 miles

This project is scheduled for a preventative maintenance overlay in 2021. The [Scoping Report](#) was signed in March 2017. The decisions made were as follows:

- a preventative maintenance mill and overlay keeping milling to a minimum
- not place concrete at the intersection of ND 67 and Brodie Street
- add sidewalk by the convenience store and median
- investigate rehabilitation strategies for the pipe at RP 11.62.

Since the scoping report was completed, approximately 1600 feet of the 2400 feet of the curb and gutter section have shown severe distress including shoving and break ups. The remainder of the curb and gutter section has medium to high severity pavement distress. Despite repeated maintenance efforts, the roadway is not holding up. At this point, a mill and overlay with minimum milling will not correct the problem. Below are two pictures of this section taken July 26, 2018.



To correct this problem, a scope change would be required for the 0.44 mile long curb and gutter section (RP 0.235 to RP 0.675) from the current preventative maintenance mill and overlay to a minor rehabilitation. The curb and gutter would remain in place, with a full depth pavement section placed between the curb and gutter.

Materials and Research completed a Linear Soils Survey and Recommendation in April 2019. They recommend to subcut 24" from the top of existing pavement to remove all of the existing pavement,

base and scoria. Their Preliminary Pavement Design Recommendation is for either 5.5" of HMA on 18" of dense graded base or 8.5" of PCC on 8" of dense graded base.

The scoping report decisions to investigate rehabilitation strategies for the pipe at RP 11.62 and to install sidewalk in the triangular median and near the convenience store would not change.

Preliminary cost estimates are:

Preventative Maintenance Mill and Overlay	\$ 200,000
HBP Pavement Section	\$1,400,000
Concrete Pavement Section	\$2,000,000

Decisions:

1. Should the scope be changed to a major rehabilitation from RP 0.235 to 0.675?

Yes

No

2. If the scope change is selected, which option should be chosen for the project?

HBP at an estimated additional cost of \$1,200,000

Concrete at an estimated additional cost of \$1,800,000

Comments: _____



Director of Transportation Programs

6/3/19
Date

C: Design
District
materials