

## Legislation Text

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**File #:** BILL NO. 20-171, **Version:** 1

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An Ordinance awarding the bid for Project No. 324-20/21 (Crack Seal) for the Crack Seal 20/21 Program to American Pavement Solutions, Inc. in the amount of \$218,700.00, and authorizing the City Manager to execute an agreement for the same. (PWC 9/16/20)

### Issue/Request:

An Ordinance awarding the bid for Project No. 324-20/21 (Crack Seal) for the Crack Seal 20/21 Program to American Pavement Solutions, Inc. in the amount of \$218,700.00, and authorizing the City Manager to execute an agreement for the same.

### Key Issues:

- Pavement crack sealing is a vital part of the City's Pavement Maintenance Program.
- Timely application of the correct type of maintenance has been shown to extend the life of a pavements.
- Crack sealing minimizes the probability of potholes by sealing cracks greater than 1/8", protecting the pavement sub-grade from excessive moisture.
- The 20/21 Crack Seal project will seal cracks along 54.5 lane miles of road.
- American Pavement Solutions, Inc. was found to be the lowest and best bidder.

### Proposed City Council Motion:

FIRST MOTION: I move for a second reading of an Ordinance awarding the bid for Project No. 324-20/21 (Crack Seal) for the Crack Seal 20/21 Program to American Pavement Solutions, Inc. in the amount of \$218,700.00, and authorizing the City Manager to execute an agreement for the same.

SECOND MOTION: I move for adoption of an Ordinance awarding the bid for Project No. 324-20/21 (Crack Seal) for the Crack Seal 20/21 Program to American Pavement Solutions, Inc. in the amount of \$218,700.00, and authorizing the City Manager to execute an agreement for the same.

### Background:

The Crack Seal Program is a pavement preservation process performed annually to protect the integrity of

street pavements, thus extending the life expectancy of the pavement surfaces. This practice is similar to caulking seams on a house to prevent water infiltration. Crack sealing keeps water from further damaging the roadways and helps limit future pot holes and pavement failures. To achieve the greatest benefit, crack seal must be placed on sound pavement. Crack sealing has been observed to significantly reduce the frequency and severity of potholes forming in pavements that have sound base and subgrade.

Crack Sealing is a specialized construction process with a limited number contractors performing this on service on a large scale. The limited number of contractors results in contractors traveling across the nation to perform work.

Currently, the City maintains 1,066 lane miles of pavement. This year, 136.5 lane miles, or about 12.8%, of the City's streets will be treated as part of the pavement maintenance programs. This summer's overlay program spent \$2.6M to resurface 33 lane miles, the surface seal program spend \$1.0M to seal-coat about 49 lane miles, and this contract \$219,000 contract will crack seal about 54.5 lane miles.

#### Impact/Analysis:

Seal coating and crack sealing combined will treat three times the amount pavement that can will be overlaid this year, for 46% of the cost of the overlay. Using these lower cost surface treatments can greatly expand the scope of annual maintenance programs and extend the life of pavements between re-surfacing with an asphalt overlay. These three techniques, although they only address surface issues, have extended many of the City's streets well beyond their expected 20-year design life. The pavement maintenance programs spend about \$4M to \$6M per year to maintain local roads so as to avoid re-constructing pavements at the end of their design life. Generally, studies show re-constructing pavement costs about ten times the cost of maintenance. So re-constructing the same amount of pavement maintained annually by the pavement maintenance program would cost the City about \$40M to \$60M per year.

#### Timeline:

October 2020 - December 2020

#### Other Information/Unique Characteristics:

Public Works Engineering issued a bid for Project No. 324-20/21 (Crack Seal) on August 14, 2020. This project's Invitation to Bid was posted for advertisement on the City's website and at Quest Construction Data Network. Three (3) responsive bids were received by the September 4, 2020, bid opening date. The bids were evaluated, and City staff determined American Pavement Solutions, Inc. to be the lowest and best bidder. The recommended bid is approximately 15% lower than City staff's estimate.

Michael Anderson, Interim Director of Public Works

Staff recommends approval

Committee Recommendation: The Public Works Committee voted unanimously 4-0 to recommend to City Council approval of an Ordinance awarding the bid for Project No. 324-20/21 (Crack Seal) for the Crack Seal 20/21 Program to American Pavement Solutions, Inc. in the amount of \$218,700.00, and authorizing the City Manager to execute an agreement for the same.