COUNCIL COMMUNICATION

Number:	**20-220**	Meeting:	**May 18, 2020**
Agenda Item:	**7**	Roll Call:	**20-0809-10**
Submitted by:	**Steven L. Naber, P.E., City Engineer**		

AGENDA HEADING:

Items regarding the proposed 2nd Avenue Reconstruction from University Avenue to the Des Moines River:

(A) Approving the Concept Plan for the 2nd Avenue Reconstruction from University Avenue to the Des Moines River.

(B) Approving Professional Services Agreement (PSA) with Bolton & Menk, Inc. for professional services for 2nd Avenue Reconstruction from University Avenue to the Des Moines River, for an amount not to exceed $485,929.

SYNOPSIS:

The Concept Plan developed for the 2nd Avenue Reconstruction from University Avenue to the Des Moines River includes:

- *Pavement Reconstruction* - Full pavement reconstruction of a 4-lane roadway with 11-foot-wide lanes, new curbs and gutters and new 5-foot-wide sidewalks on both sides.
- *Forest Avenue Realignment* - Realignment of the east leg of Forest Avenue at the intersection of 2nd Avenue to align with the west leg of Forest Avenue at the intersection of 2nd Avenue.
- *Clark Street Realignment* - Realignment of the east leg of Clark Street at the intersection of 2nd Avenue to align with the west leg of Clark Street at the intersection of 2nd Avenue.
- *Left-Turn Lanes at Select Intersections* - Adding left-turn lanes at the following intersections along 2nd Avenue:
    - Franklin Avenue (2nd Avenue northbound left-turn lane)
    - College Avenue (2nd Avenue northbound and southbound left-turn lanes)
    - Forest Avenue (2nd Avenue northbound and southbound left-turn lanes)
- *Access Control Improvements* - Eliminate and/or consolidate driveway accesses along the corridor to reduce the number of conflict points/turning movements along the corridor.

Upon approval of the Concept Plan, City staff recommend approval of the PSA with Bolton & Menk, Inc., (Bradley C. DeWolf, P.E., President/CEO, 1960 Premier Drive, Mankato, MN, 56001-5900), for a total cost not to exceed $485,929, based on hourly rates, to provide design phase services for 2nd Avenue Reconstruction from University Avenue to the Des Moines River.

FISCAL IMPACT:

Amount:

Estimated Project Costs:

Roadway Reconstruction (*Includes realignment of east legs of intersections of Forest Avenue and Clark Street*)	$8,500,000
Storm Sewer Construction	$3,000,000
Property Acquisition	$3,500,000
Engineering Design & Construction Administration (*Includes Professional Services Agreement Costs*)	$1,500,000
Estimated Total Project Costs	$16,500,000

Amount for Approving PSA: $485,929

Funding Source: 2020-21 Pending CIP, Page Street-35, Roadway Reconstruction – Second Avenue, ST277, Tax Increment Bonds

ADDITIONAL INFORMATION:

- A new storm sewer along the west side of 2nd Avenue from College Avenue to the Des Moines River is needed as part of the River Bend and King Irving Sewer Separation project.
- The pavement along 2nd Avenue between University Avenue and the Des Moines River needs complete reconstruction.
- The storm sewer and pavement reconstruction work provides an opportunity to consider geometric improvements to the roadway.
- 2nd Avenue from University Avenue to the Des Moines River is currently a 40-foot-wide, 4-lane cross section roadway (lane widths ranging from 9.5-feet to 10-feet) with disconnected 4-feet-wide sidewalks on either side.
- The City hired a traffic engineering consultant, Snyder and Associates, to complete a traffic study of the 2nd Avenue corridor from University Avenue to the Des Moines River to determine if roadway geometric improvements were needed.
- Snyder and Associates completed the traffic study in February 2019. The study looked at crash trends, existing and future traffic operations, and multi-modal accommodations. Three (3) cross-section alternatives were analyzed:
    - 3-lane roadway
    - 4-lane roadway with turn lanes at select intersections
    - 5-lane roadway

- The analysis showed that 2nd Avenue had a higher than average corridor crash rate and several intersections were above the average statewide crash rate for similar intersections. The analysis also identified the following concerns along the corridor:
    - No turn lanes provided at intersections
    - Narrow travel lanes (less than 10-feet in width)
    - Proximity of utility poles to the road
    - Inadequate access management

- Due to the volume of vehicles on the corridor, a 3-lane cross-section would have considerable traffic queueing (some intersections would operate at a level of service F).

Queue Lengths at 2nd Avenue and College Avenue
Blue = 4-lane road, current traffic; Red = 3-lane road, current traffic

- Both the 4-lane roadway with turn lanes at select intersections alternative and the 5-lane alternative provide adequate capacity for existing and projected future (2040) traffic volumes.

- Both the 4-lane roadway with turn lanes at select intersections alternative and the 5-lane alternative require right-of-way (ROW) acquisition. Below is a summary of the estimated approximate ROW needs:

	4-Lanes w/Turn Lanes	5-Lane
West ROW Required	4-feet	9.5-feet
East ROW Required	4-feet	9.5-feet
Full Property Acquisition Required	3-properties	4-properties
Full Property Acquisition Possible	3-properties	12-properties
Property with Parking Affected	4-properties	8-properties

Note: Properties with "Full Property Acquisition Possible" means this alternative will drastically impact site parking and/or access due to the roadway widening. If traffic flow on these properties cannot be altered to fit the existing property's needs, a full acquisition may be necessary. Properties with "Parking Affected" means they will lose on-site parking spaces, but may not be impacted to the degree of needing a full acquisition.

- Based on the traffic analysis, City staff recommends providing a 4-lane roadway with the following improvements as part of the 2nd Avenue Reconstruction from University Avenue to the Des Moines River:
    - *Pavement Reconstruction* - Full pavement reconstruction of a 4-lane roadway with 11-foot-wide lanes, new curbs and gutters and new 5-foot-wide sidewalks on both sides.
    - *Forest Avenue Realignment* - Realignment of the east leg of Forest Avenue at the intersection of 2nd Avenue to align with the west leg of Forest Avenue at the intersection of 2nd Avenue.
    - *Left-Turn Lanes at Select Intersections* - Adding left-turn lanes at the following intersections along 2nd Avenue:
        - Franklin Avenue (2nd Avenue northbound left-turn lane)
        - College Avenue (2nd Avenue northbound and southbound left-turn lanes)
        - Forest Avenue (2nd Avenue northbound and southbound left-turn lanes)
    - *Access Control Improvements* - Eliminate and/or consolidate driveway accesses along the corridor to reduce the number of conflict points/turning movements along the corridor.

- On February 28, 2018, the Ward Councilmember and City staff attended a Central Place Business Park meeting at the Neumann Brothers, Inc. office to discuss City projects and developments occurring around the Central Place Business Park, including announcing the 2nd Avenue corridor traffic study and planned 2nd Avenue Reconstruction.

- On April 24, 2019, City staff presented the results of the traffic analysis and recommendations for the 2nd Avenue corridor at the City Council Quarterly Planning Session.

- On May 14, 2019, a public meeting was held at the Municipal Services Center to discuss the 2nd Avenue Corridor. Attendees voiced concerns for access to businesses during the roadway construction.

- On July 9, 2019, City staff presented the results of the traffic analysis and recommendations for the 2nd Avenue corridor at the Transportation Safety Committee meeting. The Transportation Committee approved, seven (7) votes to one (1) vote, the 2nd Avenue Reconstruction from University Avenue to the Des Moines River Concept Plan for a 4-lane roadway section with turn lanes at select intersections and access control measures along the corridor.

- On September 24, 2019, the Ward Councilmember, City staff, and several stakeholders (business owners along the corridor, the President of the River Bend Neighborhood Association), met along 2nd Avenue to discuss the corridor. Several stakeholders voiced support of reconstructing 2nd Avenue as a 5-lane cross section and realigning the east leg of Clark Street at the intersection of 2nd Avenue be realigned to align with the west leg of Clark Street at the intersection of 2nd Avenue.

- The Ward Councilmember, following meetings with stakeholders along the corridor, requested the east leg of Clark Street at the intersection of 2nd Avenue be realigned to align with the west leg of Clark Street at the intersection of 2nd Avenue.

- The Concept Plan for the 2nd Avenue Reconstruction from University Avenue to the Des Moines River includes:
  - *Pavement Reconstruction* - Full pavement reconstruction of a 4-lane roadway with 11-foot-wide lanes, new curbs and gutters and new 5-foot-wide sidewalks on both sides.
  - *Forest Avenue Realignment* - Realignment of the east leg of Forest Avenue at the intersection of 2nd Avenue to align with the west leg of Forest Avenue at the intersection of 2nd Avenue.
  - *Clark Street Realignment* - Realignment of the east leg of Clark Street at the intersection of 2nd Avenue to align with the west leg of Clark Street at the intersection of 2nd Avenue.
  - *Left-Turn Lanes at Select Intersections* - Adding left-turn lanes at the following intersections along 2nd Avenue:
    - Franklin Avenue (2nd Avenue northbound left-turn lane)
    - College Avenue (2nd Avenue northbound and southbound left-turn lanes)
    - Forest Avenue (2nd Avenue northbound and southbound left-turn lanes)
  - *Access Control Improvements* - Eliminate and/or consolidate driveway accesses along the corridor to reduce the number of conflict points/turning movements along the corridor.

- A Request for Proposals (RFP) for professional services for 2nd Avenue Reconstruction from University Avenue to the Des Moines River was issued in 2019 and posted on the City's website, and 11 proposals were received in response to the RFP.

- A selection committee of Engineering staff reviewed and rated the 11 proposals received in response to the RFP. Bolton & Menk, Inc. was selected based on their qualifications, approach and the selection criteria in the RFP.

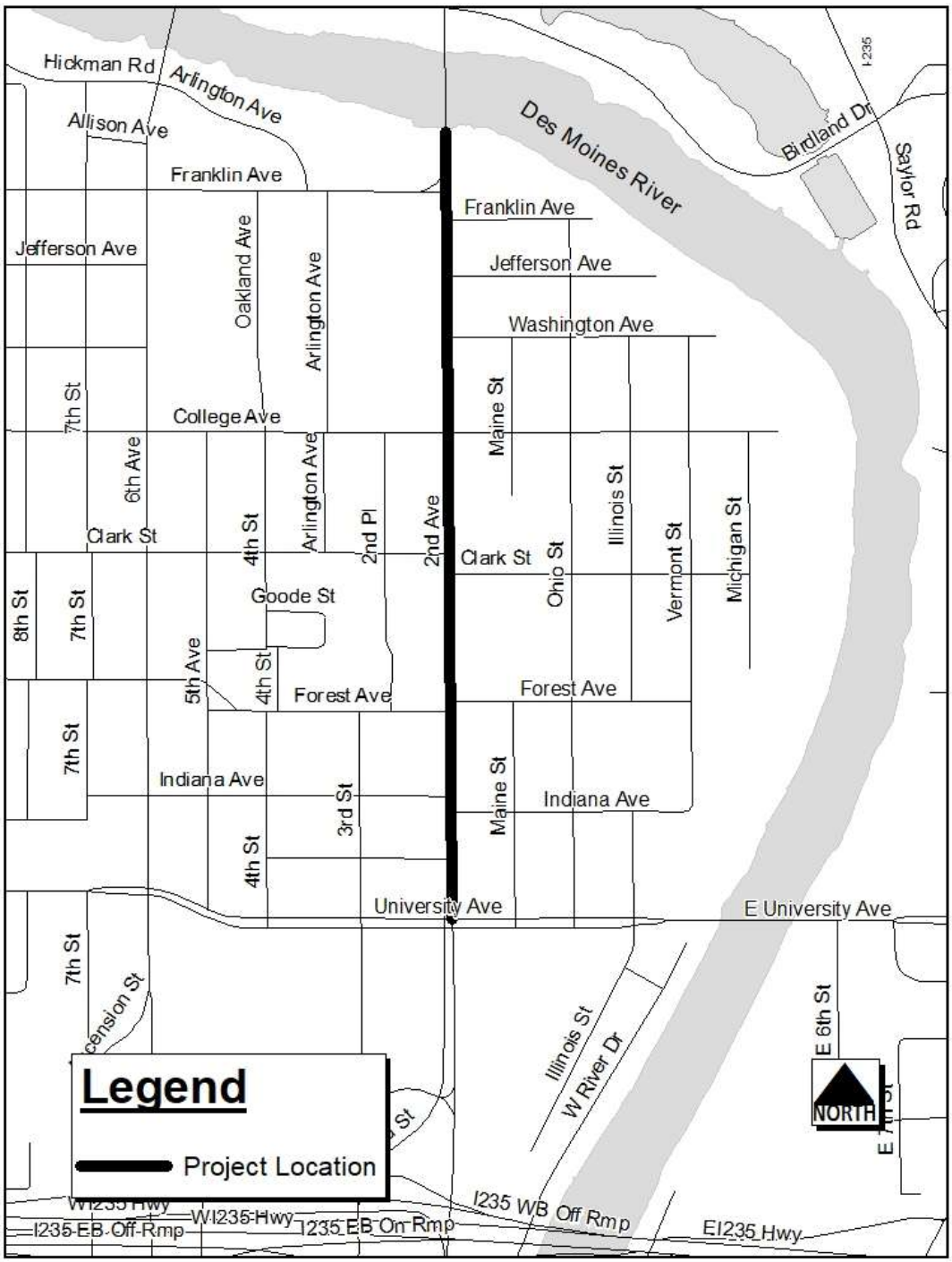
- City staff have negotiated a PSA with Bolton & Menk, Inc. for a total cost not to exceed $485,929, based on hourly rates and reimbursable costs, to provide design phase services for 2nd Avenue Reconstruction from University Avenue to the Des Moines River.

- Should design start in May 2020, City staff estimate the following project schedule:

May 2020 – Fall 2020 (6 months)	Preliminary Design
Fall 2020 – Late-Spring 2021 (*6-7 months)	Stakeholder Engagement, Property Acquisition & Detailed Design
Late-Spring 2021 – Late-Spring 2022 (*12 months)	Property Acquisition/Relocation & Final Design
Late-Spring 2022 – End of 2022 (*7-9 months)	Utility Relocation & Bidding
2023 – 2024 (**24 months plus/minus)	Construction

*Property Acquisition & Relocation timeframe and Utility Relocation timeframe can vary drastically and could alter construction schedule.
**May have restoration work in spring 2025.

- The 2nd Avenue Bridge over Des Moines River Rehabilitation is scheduled to start construction in 2021, with completion in 2022.



PREVIOUS COUNCIL ACTION(S):

Date: June 3, 2019

Roll Call Number: 19-0873

Action: Authorization to proceed with acquisition of the necessary property interests for 2nd Avenue Reconstruction – University Avenue to the Des Moines River Project. (Council Communication No. 19-248) Moved by Coleman to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S):

Board: Transportation Safety Committee

Date: July 9, 2019

Resolution Number: 1

Action: Motion was made by Jim Windsor to approve the 2nd Avenue Reconstruction from University Avenue to the Des Moines River Concept Plan for a 4-lane roadway section with turn lanes at select intersections and access control measurers along the corridor, seconded by Blake Hanson. Motion passed 7:1. Opposed: Dave Ferree (preferred 5-lane).

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

- City staff anticipate there will be actions related to supplemental agreements to this professional services agreement for construction phase services.
- City staff anticipate actions related to construction, including ordering construction.

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Hall, 400 Robert D Ray Drive. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to cityclerk@dmgov.org.