

ITEM#: 34  
DATE: 02-14-23  
DEPT: PW

**COUNCIL ACTION FORM**

**SUBJECT: 2021/22 CONCRETE STREET PAVEMENT IMPROVEMENTS (24<sup>TH</sup> AND STANGE) PROFESSIONAL SERVICES AGREEMENT**

**BACKGROUND:**

This project is for the reconstruction of Stange Road (Blankenburg Drive to 24<sup>th</sup> Street) and 24<sup>th</sup> Street (Stange Road to Railroad crossing). Work will include improvements to pavement, storm and sanitary utilities, ADA ramp, sidewalk, shared use path, and the 24<sup>th</sup> and Stange intersection. On August 10, 2021, City Council awarded the Professional Services Agreement for design of the project to HR Green of Johnston, Iowa, in the amount of \$233,400.

The agreement with HR Green required the firm to complete an analysis of the traffic and storm sewer requirements for the project. After completing this analysis, HR Green determined that additional storm sewer design and additional traffic design—beyond the scope of HR Green’s initial contract—was warranted.

**Storm Sewer**

The results from the initial analysis conducted by HR Green showed that the 24<sup>th</sup> Street storm sewer system was undersized and lacking intakes. This has been causing buildup of standing water in the outside lanes (spread) during storm events. In order to meet the proper spread criteria for safety, ten new storm sewer intakes and the relocation of five existing intakes are required. The new intakes will allow for storm water to be removed from the new roadway much more quickly than the current intake system.

The addition of these intakes has also required the assessment of the existing storm sewer pipe sizes and the ability to take this water away from the roadway in a timely manner. HR Green’s review of the existing system showed that new lateral storm sewer pipes were needed to connect the new intakes and increase the capacity of the system. Design was completed to include additional 15”, 18”, 24” and 48” storm lines to meet the required additional stormwater capacity needs. **The design work for the spacing and locating new intakes and the additional storm system analysis and design were completed outside the scope of the original PSA with HR Green.**

**George Washington Carver Right Turn Lane**

The contract with HR Green included a traffic analysis of Stange Road and 24<sup>th</sup> Street. As part of this study, it was shown that the existing right turn lane of George Washington Carver onto Stange Road did not have sufficient storage length. The design of this right turn lane includes the adjacent shared use path due to expansion of the turn

lane. The elevation of the shared use path needs to be raised to reduce the slope between edge of the trail and the pavement through the length of the turn lane.

#### 24<sup>th</sup> Street Shared Use Path

Because of the storm sewer intake redesign described above, several sections of the shared use path along 24<sup>th</sup> Street will now require the removal and replacement due to the additional intakes and storm sewer infrastructure.

#### CyRide Stop and ISU Sidewalk Connections

After the design contract was approved with HR Green, ISU agreed to allow the City to include sidewalk improvements along the east side of Stange Road and the placement of CyRide bus stop pads in the project. These improvements must now be incorporated into the project to tie into the new pavement on Stange Road.

#### **ADDITIONAL COST SUMMARY:**

The additional work outlined above results in a cost increase as follows:

<b>ITEM</b>	<b>ADDITIONAL COST</b>
Additional Storm Sewer Design	\$ 40,215.75
GW Carver Turn Lane Design	6,315.70
24 <sup>th</sup> Street Shared Use Path Design	4,850.00
CyRide Stop and ISU Sidewalk	4,633.92
<b>TOTAL</b>	<b>\$ 56,015.37</b>

At the time staff was informed by HR Green about these increased expenses, HR Green told staff that much of the expense for this additional design work could be covered by savings in other areas of the design contract, allowing the changes to occur without increasing the total contract amount. **Therefore, City staff gave HR Green permission to move forward with the additional design. After this discussion, staff received an invoice from HR Green for this additional design work for an additional \$79,677.87.**

Staff reviewed HR Green's request compared to the original agreement and then met with HR Green to discuss this additional design effort. **There were several areas where staff believed additional design expenses were not the responsibility of the City, due to the work being included within the original agreement. After this discussion, HR Green ultimately agreed to reduce the amount to \$56,015.37. This would bring HR Green's total fee for the design of Stange Rd and 24<sup>th</sup> St to \$289,415.37.**

**Although it was not clear to City staff that additional design fees would be incurred at the time HR Green was authorized to proceed with the change in scope, it is evident that the additional work was necessary to successfully complete the design work for the project. Staff has reviewed the additional**

**\$56,015.37 in work and believes it is a reasonable fee for the design work performed.**

A summary of revenues and projected expenses is shown below.

<b>Funding Source</b>	<b>Available Revenue</b>	<b>Estimated Expenses</b>
GO Bonds 2021/22 Concrete Improvements	\$ 2,600,000	
MPO/STP Funds	1,600,000	
Water Quality Funds	100,000	
Unobligated GO Bonds	500,000	
2023/24 Storm Sewer Improvements	200,000	
Union Pacific Agreements		\$ 117,270.00
Engineering/Admin ( <b>inc. all HR Green fees</b> )		600,000.00
Stange and 24 <sup>th</sup> Construction (Low bid)		4,252,314.23
<b>TOTAL</b>	<b>\$ 5,000,000</b>	<b>\$ 4,969,584.23</b>

**ALTERNATIVES:**

1. Approve the professional services agreement amendment for the 2021/22 Concrete Street Pavement Improvements project with HR Green of Johnston, Iowa, in the amount of \$56,015.37.
2. Reject the design services amendment.

**CITY MANAGER’S RECOMMENDED ACTION:**

Staff has analyzed the amendment request for extra compensation from HR Green. It was determined that some of the work fell within the original design scope and other work was truly added engineering work based on unforeseen issues that arose during design. Staff has negotiated a lower fee from HR Green for the additional work in the amount of \$56,015.37. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as noted above.