



# City of Grand Island

Tuesday, August 23, 2016

Council Session

## Item G-14

**#2016-202 - Approving Certification of Final Completion for Pavement Lifting and Stabilization with Polyurethane Foam on South Locust Street from Lake Street to the Diversion Bridge**

Staff Contact: John Collins, P.E. - Public Works Director

# **Council Agenda Memo**

**From:** Shannon Callahan, Street Superintendent

**Meeting:** August 23, 2016

**Subject:** Approving Certification of Final Completion for Pavement Lifting and Stabilization with Polyurethane Foam on South Locust from Lake St to Diversion Bridge

**Presenter(s):** John Collins PE, Public Works Director

## **Background**

The project involved using polyurethane foam to lift and stabilize the pavement by compressing the base material. The entire northbound lanes were stabilized and isolated areas lifted up to 4 inches. This section took more quantities than estimated but was the worst of the two sections. A number of isolated areas for southbound were successfully stabilized including three large swales were removed near the Honda Power Equipment entrance.

Concrete panels needing lifted are in deflection, the act of lifting “bends” the concrete back into position exposing small cracks; these new cracks will need crack sealed this fall/winter. Areas where the concrete already had holes or large cracks were patched following the completion of the project. One panel on the northbound, outside lane just north of Lake St had settled and cracked in a manner that was not restorable with this method and will need further attention in the future.

Overall, the project’s goal of improving safety of the roadway was achieved by reducing the unevenness between panels and minimizing the bouncing action when traversing the swales in the roadway. Stabilizing or void filling will reduce the movement of the concrete in areas that are currently in good condition.

The City Council awarded the bid for the maintenance project to Thrasher, Inc. of LaVista, Nebraska on June 14, 2016 in the amount of \$250,500. Work on the project commenced July 12, 2016 with final completion on August 3, 2016.

## **Discussion**

The project was completed in accordance with the terms, conditions and stipulations of the contract, plans and specifications. Construction work was completed at a total cost of \$250,500.

## **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

## **Recommendation**

City Administration recommends that the Council approve the Certificate of Final Completion for Pavement Lifting and Stabilization with Polyurethane Foam on South Locust from Lake St to Diversion Bridge.

## **Sample Motion**

Move to approve the Certificate of Final Completion for Pavement Lifting and Stabilization with Polyurethane Foam on South Locust from Lake St to Diversion Bridge.

**ENGINEER'S CERTIFICATE OF FINAL COMPLETION**

PAVEMENT LIFTING & STABILIZATION WITH POLYURETHANE FOAM  
 South Locust St. from Lake St to Diversion Bridge  
 CITY OF GRAND ISLAND, NEBRASKA  
 August 23, 2016

TO THE MEMBERS OF THE COUNCIL  
 CITY OF GRAND ISLAND  
 GRAND ISLAND, NEBRASKA

This is to certify that PAVEMENT LIFTING & STABILIZATION WITH POLYURETHANE FOAM - South Locust St. from Lake St to Diversion Bridge has been fully completed by Thrasher Inc. of LaVista, Nebraska under the contract dated July 5, 2016. The work has been completed in accordance with the terms, conditions, and stipulations of said contract and complies with the contract, the plans and specifications. The work is hereby accepted for the City of Grand Island, Nebraska, by me as Public Works Director in accordance with the provisions of Section 16-650 R.R.S., 1943.

		Quantities			Total Amount
	Description	Placed	Unit	Price Bid	Completed
<b>Bid Section A – Northbound Lanes with Right Turn Lane</b>					
1	Pavement Lifting & Stabilization	<b>43,261</b>	LB	\$ 5.50	\$ 237,935.50
2	Traffic Control	<b>1</b>	LS	\$ 0.00	\$ 0.00
3	Mobilization/Demobilization	<b>1</b>	LS	\$ 1,500.00	\$ 1,500.00
					<b>\$ 239,435.50</b>
<b>Bid Section B – Southbound Lanes</b>					
1	Pavement Lifting & Stabilization	<b>1,739</b>	LB	\$ 5.50	\$ 9,564.50
2	Traffic Control	<b>4.00</b>	LS	\$ 0.00	\$ 0.00
3	Mobilization/Demobilization	<b>1.00</b>	LS	\$ 1,500.00	\$ 1,500.00
					<b>\$ 10,064.50</b>
<b>THRASHER INC. =</b>					<b>\$ 250,500.00</b>

**ADDITIONAL PROJECT COSTS – none**

**Total Cost - \$250,500.00**

I hereby recommend that the Engineer's Certificate of Final Completion for PAVEMENT LIFTING & STABILIZATION WITH POLYURETHANE FOAM - South Locust St. from Lake St to Diversion Bridge be approved.

\_\_\_\_\_  
 John Collins, PE - City Engineer/Public Works Director

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 Jeremy L. Jensen – Mayor

RESOLUTION 2016-202

WHEREAS, the City Engineer/Public Works Director for the City Of Grand Island has issued a Certificate of Completion for Pavement Lifting & Stabilization with Polyurethane Foam – South Locust St from Lake St. to Diversion Bridge certifying that Thrasher Inc. of LaVista, Nebraska, under contract, has completed the project.

WHEREAS, the City Engineer/Public Works Director recommends the acceptance of the project; and

WHEREAS, the Mayor concurs with the recommendation of the City Engineer/Public Works Director.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that:

1. The Certificate of Final Completion for Pavement Lifting & Stabilization with Polyurethane Foam – South Locust St from Lake St. to Diversion Bridge, in the amount of \$250,500 is hereby confirmed.

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Adopted by the City Council of the City of Grand Island, Nebraska, August 23, 2016.

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Jeremy L. Jensen, Mayor

Attest:

\_\_\_\_\_  
RaNae Edwards, City Clerk

Approved as to Form	☒ _____
August 19, 2016	☒ City Attorney