



AGENDA MEMORANDUM

Future Item for the City Council Meeting of July 25, 2017
Action Item for the City Council Meeting of August 8, 2017

DATE: July 19, 2017

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Construction Contract

Residential Street Rebuild Program (RSRP) Test Project
Rogerson Drive – McArdle Road to Sunnybrook Road

CAPTION:

Motion authorizing the City Manager, or designee, to execute a construction contract with J.E. Construction Services of Corpus Christi, Texas in the amount of \$699,807.62 for the Rogerson Drive Project - McArdle Road to Sunnybrook Road for Base Bid 2 – Portland Cement Concrete (PCC) as part of the Residential Street Rebuild Program (RSRP) test projects.

PURPOSE:

The purpose of this agenda item is to obtain authority to execute a construction contract with J.E. Construction Services of Corpus Christi, Texas for Rogerson Drive - McArdle Road to Sunnybrook Road in the amount of \$699,807.62 as part of the RSRP test projects program using Portland Cement Concrete (PCC).

BACKGROUND AND FINDINGS:

On November 8, 2016 city-voters approved the RSRP in the amount of \$11 M. On December 13, 2016, the City Council approved two contracts for engineering design services for the design of Residential Reconstruction "Test" Projects. The design contract for Rogerson Drive from McArdle Road to Sunnybrook Road was awarded to Freese and Nichols, Inc.

Project Scope:

The scope includes full depth reconstruction of the street pavement, new curb & gutter with new tied sidewalks on both sides, new ADA ramps, tree removal for trees within 3ft of new sidewalks and other miscellaneous improvements. The project includes minor extensions of the existing underground storm water pipelines and new curb inlets to improve drainage. The project also improves the roadway profile (slope) to achieve positive drainage. The profile improvements and new curb & gutter require driveway adjustments. The underground storm water improvements require relocation of an existing AT&T duct bank, that will be moved by AT&T.

The test project was developed to analyze the above improvements and collect more information to refine the design and construction approach for rehab/reconstruction of local streets to include the following:

- Pavement material selection and alternatives and pricing for Portland Cement Concrete (PCC) or Hot-Mix-Asphalt-Concrete (HMAC). The design engineer and staff also considered and will continue to research alternatives including new pavement technologies and materials that allow more cost-effective rehab options in lieu of full replacement.
- Extent of replacement and pricing for concrete sidewalks, driveways, curb & gutter and ADA ramps. The design team worked to minimize the impacts and improvements for these structures while ensuring the proposed improvements achieve a sustainable and cost effective street design. Typical improvements will be 5ft tied sidewalks on only one side unless there are existing sidewalks on both sides.
- Drainage and underground utility improvements. Each design will ensure positive drainage that prevents nuisance flooding and premature failure of the roadway and other structures. The intent is to find cost effective solutions without major underground infrastructure investments, and recommend deferral of streets with heavy utility corridors and drainage problems.
- Evaluation and recommendations with other surface improvements such as trees that undermine the roadway, sidewalks and curb & gutter, landscaping, fencing, irrigation and other miscellaneous items encountered in residential communities.

On June 21, 2017, the City received proposals from six (6) bidders and the respective bids were as follows:

CONTRACTOR	BASE BID	
	Base Bid 1 (Asphalt)	Base Bid 2 (Concrete)
J.E. Construction Services * Corpus Christi, Texas	\$ 673,567.23	\$ 699,807.62
J. Carroll Weaver Sinton, Texas	\$ 677,612.17	\$ 858,567.01
Grace Paving & Construction Corpus Christi, Texas	\$ 724,933.32	No Bid
MAX Underground Construction Corpus Christi, Texas	\$ 727,381.25	No Bid
Berry Contracting dba Bay, Ltd Corpus Christi, Texas	\$ 951,298.60	\$ 1,277,329.10
CPC Interest dba Clark Pipeline Corpus Christi, Texas	\$ 953,732.75	No Bid
<i>Engineer's Opinion of Probable Construction Cost (Base Bid)</i>	\$ 735,000.00	\$ 889,000.00
* Reflects corrected Mobilization Unit pricing to the maximum of 5% as required in the bid documents.		

J. Carroll Weaver failed to submit a bid bond for the Rogerson Drive project and was determined by City Legal to be Non-Responsive. Additionally, bid irregularities were noted with the construction mobilization unit prices from J.E. Construction and J. Carroll Weaver. The bid documents restrict mobilization to a maximum amount up to 5%. The actual bid price for these two bidders was computed using the mobilization unit price of 5% pursuant to and as required by the bid documents. This resulted in a \$40K reduction of the mobilization unit price and total bid from the low bidder, J.E. Construction Services.

J.E. Construction Services was notified and acknowledged the requirement. Staff recommends waiving of the irregularities in accordance with the bid documents, specifically the Invitation for Bidders that expressly states the City may accept or reject any or all bids and waive any irregularities that are determined to be in the best interest of the City.

The Rogerson Drive project was bid with Hot-Mix-Asphalt-Concrete (HMAC) and Portland Cement Concrete (PCC) pavement options. The final pavement recommendation of HMAC or PCC pavement is made based on the method described in an informal report to City Council dated June 2, 2017. Projects that are bid with PCC and HMAC alternates, Engineering will recommend the PCC alternate when the construction cost differential is less than \$100K per lane mile. The lowest PCC pavement bid was \$26,240.39 higher than HMAC which equates to \$55,747.59 per lane mile, and is within the \$100,000 per lane mile differential.

ALTERNATIVES:

1. Authorize the execution of the construction contract as presented (Recommended)
2. Authorize the execution of the construction contract as using the HMAC material (Not Recommended)
3. Do not authorize the execution of the construction contract. (Not Recommended)

OTHER CONSIDERATIONS:

None

CONFORMITY TO CITY POLICY:

Conforms to City Fiscal Policy.

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Street Department

FINANCIAL IMPACT:

☒ Operating ☐ Revenue ☐ Capital ☐ Not applicable

Fiscal Year 2016-2017	Project to Date Expenditures	Current Year	Future Years	TOTALS
Line Item Budget		4,290,000.00		4,290,000.00
Encumbered / Expended Amount		141,331.00		141,331.00
Rogerson – This Item		699,807.62		699,807.62
Future Anticipated Expenditures This Project		229,317.38		229,317.38
BALANCE		3,219,544.00		3,219,544.00

Fund(s): Operating and Utilities

Comments: This project requires approximately 120 calendar days for construction with anticipated completion in December 2017. The construction contract will result in the expenditure of an amount not to exceed \$699,807.62.

RECOMMENDATION:

City staff and the design engineer recommend waiving the mobilization bid price irregularity and to award the contract to the lowest bidder, J.E. Construction Services, in the amount of \$699,807.62 for the PCC pavement option.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Presentation
Form 1295
Letter of Recommendation
CCAR – Bidding Asphalt vs. Concrete