

**CITY OF WAUKESHA****Administration**

201 Delafield Street, Waukesha, WI 53188
Tel: 262.524.3701 fax: 262.524.3899
www.waukesha-wi.gov

Committee: Board of Public Works	Date: 1/18/2018
Common Council Item Number: ID #18-0068	Date: 2/6/2018
Submitted By: Fred Abadi, Director of Public Works	City Administrator Approval: Kevin Lahner, City Administrator
Finance Department Review: Rich Abbott, Finance Director	City Attorney's Office Review: Brian Running, City Attorney
Subject: Review and act on Contract Change Order No. 2 with Vinii Solar Engineering and Electric, for Saratoga Complex Lighting Upgrades.	

Details:

This Contract Change Order explains additional quantities needed to finish the project.

Description of quantity changes:

1. The conduit quantities were based on estimated of where the equipment would be installed per plan. Field conditions and adjustments of poles to avoid conflict with existing structures increased estimated quantities.

Bid Item 6: 1.25-inch conduit nonmetallic special was estimated at 1,200 Lin. Ft.. The actual measured quantity 1,268 Lin. Ft.. Additional 68 Lin. Ft. @ \$14.94 \$ 1,015.92

2. The wire quantities were based on estimates of where equipment would be installed per plan. Field conditions and adjustments of poles to avoid conflict with existing structures increased the estimated quantities.

Bid Item 8: #6 AWG wire was estimated at 17,800 Lin. Ft. The actual measured quantity was 22,728 Lin. Ft. Additional 4,928 Lin. Ft. @ \$0.84 \$ 4,139.27

Bid Item 9: #4 AWG wire, was estimated at 8,400 Lin. Ft.. The actual measured quantity was 9,496 Lin. Ft.. Additional 1,056 Lin. Ft. @ \$1.28 \$ 1,403.14

3. Asphalt patching was originally estimated for only the repairs around the new poles within the north and south alleys of the complex. The repairs to the east and west poles and the alleys where the conduit was trenched around the complex was not in the original estimate. This has led to an increase in asphalt repairs:

Bid Item 14: Remove and Replace Asphalt Path, was estimated for 3 square yards. The actual measured quantity was 20.24 square yards. Additional 17.24 Lin. Ft. at \$216.67 equals an additional \$ 3,735.09

Subtotal costs for materials measured \$10,293.72



4. The contract does include a provision to assess liquidated damages for failure to complete the project on time. Change Order No. 1 extended the contract to May 30, 2017 due to the large amount of rainfall in the beginning of the project. The project was accepted on October 2, 2017, which is 88 days over the amended contract. It is recommended that the contract be extended 78 days to September 18, 2017, for delays that occurred outside the contractor's control.

Subtotal Liquidated damages @\$500/day for 10 days (\$5,000.00)

5. Deduction for Vinii damage to light pole and fixture. (\$ 286.20)

6. All 2-inch conduit was installed instead of 2-inch and 1.25-inch (Bid Items 5 & 16). By doing so, the total cost was less than the original cost estimate.

Bid Item 5: 2-inch conduit increased 983 Lin. Ft. adding a cost of \$4,070.30

Bid Item 16: 1.25-inch conduit was decreased 983 Lin. Ft., decreasing the cost (\$4,224.00)

Subtotal Items 5 and 6 (\$ 439.90)

Total Contract Change Order No 2: \$4,853.82

Options & Alternatives:

There were no other feasible alternatives. Projects are based off estimates under all known conditions. Quantities can increase when an unknown circumstance presents itself during construction. To complete the project and deliver a working end product, changes in the field had to be made. The Contractor has a responsibility to complete the project per contract, when a Contractor creates their own delays, not to the fault of the City, the Contractor must take responsibility and complete the project per the signed contract.

Financial Remarks:

PO #170159

Original contract: \$98,372.00

Change Order No. 1 – extended the time to May 30, 2017.

Change Order No. 2 - \$4,853.82 and time extension to September 18, 2017.

Total Contract after Change Order No. 2 - \$103,225.82

Account No. : 5572.68290 = \$4,853.82

Executive Recommendation:

Recommend approval of Contract Change Order No. 2 with Vinii Solar Engineering and Electric to increase quantities for wire and asphalt repair, and to assess liquidated damages for failure to complete the project on time, per the contract.