



City of Waukesha  
Department of Public Works  
130 Delafield Street  
Waukesha, WI 53188  
Waukesha-wi.gov

# Contract Change Order

Form C107  
(Rev 01/18)

Project: Barstow Street and Riverfront Street Utility and Street Improvements

Date: 6/4/20

Contract Number: 4150

Branch: Engineering Department.

Change Order Number: 1

Contractor: State Contractors, Inc.

Amount of original contract ..... \$7,222,222.22

Amount of Contract prior this Change Order ..... \$7,222,222.22

### Description of change:

As part of the overall project work, the existing Barstow St. Bridge over the Fox River (B-67-039) was to be rehabilitated with a new concrete deck overlay, sidewalk rehabilitation, and minor substructure rehabilitation work. Immediately after the start of the rehabilitation work on the existing concrete deck, it was discovered that the overall condition of the existing bridge deck was worse than expected. The depth of the deck removal was required to be increased in order to remove all unsound concrete from the previous deck overlay in 1988. Once the additional depth was removed, more poor/failed areas of the bridge deck were discovered within the reinforced section of the deck which required increased areas of Type 1 and Type 2 preparations than originally envisioned for the scope of the rehabilitation work. Spot areas were found on the bridge deck that also required a full depth repair of the area. After the discovery of the condition of the existing bridge deck, it was also observed that multiple concrete girders showed cracking at the south end of the structure. It was recommended by the structural engineer that provided the rehabilitation plans to utilize an epoxy injection method to seal the cracks before further deterioration could occur. Overall the existing condition of the structure was worse than could be seen by routine inspections, and additional unit bid quantities, as well as, extra work items were required to be utilized to create a safe and complete rehabilitation as part of the Barstow Street and Riverfront St. project.

### Additional Bridge Rehabilitation Items:

1. Increase of quantity for Bid Item #94 – Preparation Decks Type 1, WisDOT 509.0351

Description: Additional areas of the bridge deck were required to be prepared for concrete replacement to a depth within the reinforced area of the bridge deck consistent with WisDOT's Type 1 definition.

107 SY @ \$230.00/SY ..... \$ 24,610.00

2. Increase of quantity for Bid Item #95– Preparation Decks Type 2, WisDOT 509.0352  
Description: Additional areas of the bridge deck were required to be prepared for concrete replacement to a depth within the reinforced area of the bridge deck consistent with WisDOT's Type 2 definition.  
50.39 SY @ \$290.00/SY.....\$ 14,613.10
  
3. Increase of quantity for Bid Item #99– Concrete Masonry Overlay Decks, WisDOT 509.2500  
Description: The increase in Type 1 and Type 2 deck preparation areas, and the additional deck surface depth removed to locate sound concrete for the overall to bond to lead to additional volume of concrete for the deck overlay.  
16.9 CY @ \$2,000.00/CY .....\$ 33,800.00
  
4. Extra No. 1 Full Depth Deck Repair  
Description: Multiple areas of the existing concrete deck had complete failure of the existing concrete and required a full depth repair of the existing deck at these locations.  
2.2 SY @ \$1,552.50/SY .....\$ 3,415.50
  
5. Extra No. 2 Epoxy Crack Injection  
Description: Cracking was discovered on the existing concrete girders, on the south end of the structure. The recommended rehabilitation method to prevent further deterioration was epoxy crack injection.  
70 LF @ \$139.15/LF.....\$ 9,740.50

Amount of this Change Order.....\$ 86,179.10

Net Contract Amount after this Change Order.....\$ 7,308,401.32

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City of Waukesha  
Director of Public Works

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor  
State Contractors, Inc.

\_\_\_\_\_  
Date