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Change Record

Contract Number 009151	Contract Title I-90, Floating Bridges Replace Anchor Cables	Federal Aid Number NHPP-0901(497)
Change Order Number 22	Change Description Longitudinal Cable Geometry	Date May 1, 2019
Region Northwest Region	Project Engineer Edward W. Kane, P.E. <i>E.W.K.</i>	Phone Number 425-225-8725
Prime Contractor / Design-Builder American Bridge Company		

- Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications or the
 Change proposed by Contractor / Design-

Evolution & Description Of Change

Attached for review and further processing is PE recommended Change Order No. 22. This change order compensates the Contractor for Work method changes and added Work required to replace longitudinal anchor cables on the I-90 Floating Bridges due to Differing Site Conditions.

This Contract provides for the replacement of 32 anchor cables on the I-90 Floating Bridges. Page 176 of the Special Provisions requires the Contractor to submit a Type 2E Working Drawing consisting of an anchor cable installation plan. After further review of as-built plans of the I-90 Floating Bridges, it was determined that an additional anchor cable installation plan submittal was needed to address the geometric complexity of the longitudinal anchor cables. Subsequently, the Contractor incurred added engineering costs to develop an installation plan for the longitudinal cables.

After performing an underwater inspection of both bridges' existing anchor cables, the Contractor found conditions not identified in the Contract Plans including lakebed debris, old ropes and abandoned cables conflicting with the longitudinal cables. In total, the Contractor identified Differing Site Conditions (DSC) on seven anchor cables (90/25S-L1-S, 90/25S-L2-S, 90/25S-L6-N, 90/25N-L1-N, 90/25N-L2-N, 90/25N-L6-S and 90/25N-L6-N). As a result, the Contractor was forced to redesign their longitudinal installation plan and incurred costs for unsalvageable material obtained for their previous plan.

The Contractor's approved longitudinal anchor cable installation plan involves utilizing a second barge and additional equipment throughout the longitudinal installation process, which lasted from July 26, 2018 to October 13, 2018. The Contractor incurred added equipment rental, operating, crew and Subcontractor costs over the course of three months due to the need for a secondary barge.

On April 22, 2019, WSDOT agreed with the Contractor's claims of multiple longitudinal DSCs. However, costs associated with the abandoned longitudinal anchor cable installation plan were determined to be partial fault of the Contractor since the plan was dependent on the Contractor's means and methods. Therefore, WSDOT agreed to pay half of the cost associated with the abandoned plan.

Distribution By:

Project Office

- Copy of Change Records & Change Order w/Backup - Project Engineer
- Copy of ONLY Change Order - Prime Contractor / Design-Builder
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Contract Number 009151	Contract Title I-90, Floating Bridges Replace Anchor Cables	Change Order Number 22
<p>Basis of Cost & Justification:</p> <p>New item "CO#22 Longitudinal Anchor Cables" will be paid at the agreed lump sum amount of \$1,086,000.00. This shall be full pay for all labor, equipment, materials and associated cost necessary to perform the Work.</p> <p>For further detail, please see the attached cost estimates addressing the abandoned longitudinal anchor cable installation plan and the new installation plan resulting from multiple DSCs.</p> <p>The net amount for this change order is \$1,086,000.00.</p>		
<p>Contract Time:</p> <p>No additional working days were required for this Work. As a result, it is mutually agreed that an extension of time will not be granted as a result of this change order, and a written time impact analysis is not required.</p>		
<p>Prior Approvals:</p> <p>Kevin Waligorski, Assistant State Construction Engineer, gave his approval on April 18, 2019</p> <p>Cathy Arnold, NWR Engineering Manager, gave her approval on April 29, 2019.</p> <p>Edward W. Kane, Project Engineer, gave his approval to proceed with this change order on April 22, 2019.</p>		
<p>List Attachments:</p> <p>Checklist</p> <p>Estimate</p> <p>Approvals</p>		

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**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

DATE: 04/29/19
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CONTRACT NO: 009151 FEDERAL AID NO: NHPP-0901 (497)
 CONTRACT TITLE: I-90, FLOATING BRIDGES REPLACE ANCHOR CABLES
 CHANGE ORDER NO: 22 LONGITUDINAL CABLE GEOMETRY

PRIME CONTRACTOR: [REDACTED] AMERICAN BRIDGE COMPANY
 1390 WILLOW PASS RD
 SUITE 330
 CONCORD CA 94520-5250

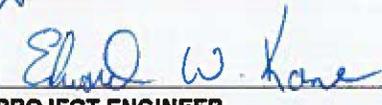
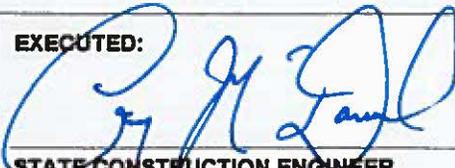
Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications

Change proposed by Contractor

ENDORSED BY:  Brian A. Petersen	SURETY CONSENT:
CONTRACTOR 30 APRIL 19 DATE	ATTORNEY IN FACT DATE

ORIGINAL CONTRACT AMOUNT: 5,755,000.00
 CURRENT CONTRACT AMOUNT: 10,911,600.51
 ESTIMATED NET CHANGE THIS ORDER: 1,086,000.00
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 11,997,600.51

Approval Required: Region Olympia Service Center Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED  PROJECT ENGINEER 5/1/2019 DATE	EXECUTED:  STATE CONSTRUCTION ENGINEER May 15, 2019 DATE
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED REGIONAL ADMIN:  BY: 5-7-19 DATE	OTHER APPROVAL WHEN REQUIRED SIGNATURE _____ DATE _____ REPRESENTING _____

**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

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CONTRACT NO: 009151

CHANGE ORDER NO: 22

All work, materials, and measurements to be in accordance with the provisions of the Standard Specifications and Special Provisions for the type of construction involved.

This contract is revised as follows:

DESCRIPTION

This change order compensates the Contractor for Work method changes and added Work required to replace longitudinal anchor cables on the I-90 Floating Bridges due to Differing Site Conditions.

CONSTRUCTION REQUIREMENTS

The Contractor shall replace longitudinal anchor cables in accordance with pages 4 through 16 of this change order.

MEASUREMENT AND PAYEMENT

New item "CO#22 Longitudinal Cable Geometry" will be paid at the agreed lump sum amount of \$1,086,000.00. This shall be full pay for all labor, equipment, material and associated costs necessary to perform the Work.

CONTRACT TIME

No additional working days were required for this Work. As a result, it is mutually agreed that an extension of time will not be granted as a result of this change order, and a written time impact analysis is not required.

**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

DATE: 04/29/19
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CONTRACT NO: 009151	CHANGE ORDER NO: 22
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ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE
1024	01		CO#22 LONGITUDINAL CABLE GEOMETRY	L.S.	0.00	0.00	504,214.00
1024 <i>070</i>	03		CO#22 LONGITUDINAL CABLE GEOMETRY	L.S.	0.00	0.00	310,286.00
1024	04		CO#22 LONGITUDINAL CABLE GEOMETRY	L.S.	0.00	0.00	271,500.00

1,086,000.00
