

JAN 19 2016



Washington State  
Department of Transportation

## Memorandum

DATE: January 5, 2016

TO: Derek Case  
Assistant Construction Engineer  
Headquarters, Mail Stop 47354

THRU: Julie Meredith/ Dave Becher  
Program Director, SR 520 Program, Mail Stop NB82-99

FROM: Brian Dobbins, BU  
Construction Manager, West Approach Bridge North Project,  
Mail Stop TB-93, (206) 770-3518

PROJECT: C-8625 SR 520 West Approach Bridge North Project

SUBJECT: CO #68 – Casing Extension Interim Pay

**Requested Action:**

Review     Review and Region Execution     Review and HQ Execution

**Change Approval**

Project Engineer Change Approval: Brian Dobbins	12/11/15
Region Change Approval: Dave Becher	12/11/15
HQ Construction Change Approval: Derek Case	12/14/15
FHWA Change Concurrence: Anthony Sarhan	12/15/15

**Description of the Change**

The Contract Plans establish the elevations for the permanent shaft casings that are to be installed for the West Approach Bridge North substructure. During construction, there were repeated instances where the installed casings began to sink further into the shaft excavation once the shaft excavation activity advanced beyond the casing tip elevation. This was not expected by either the Engineer of Record or the WSDOT geotechnical engineering group nor had such behavior been previously experienced on a WSDOT contract. After consultation with the EOR, HQ Geotech, HQ Construction and 520 Program, WSDOT determined that the best solution was to extend the permanent shaft casings. This additional casing depth provided greater penetration into the dense underlying soils and ensured stability of the casings during shaft excavation. WSDOT directed the Contractor to extend the permanent shaft casings for Piers 34-41 and began negotiations for the changed work. This ~~Contractor requested~~ change order provides an interim estimated payment for work performed to extend the casings and ensure prompt payment to subcontractor(s) performing a portion of this work. The full scope for extending the permanent marine shaft casings will be detailed under a separate change order and will allow adjustments of costs for this Work.

*engineer ordered*

**Evolution of the Change**

On October 29, 2015, WSDOT SL 239 provided direction to extend the permanent shaft casings in order to prevent a reoccurrence of casing movement during excavation and avoid delays to the schedule and cost impacts associated with resources standing by. See Change Order 72 Extended Marine Shaft Casings for additional details on the Work, change approvals and prior approvals.

By mid-November, the Prime Contractor Flatiron was providing information from their casing subcontractor, Pacific Pile & Marine (PPM) of costs incurred performing the casing extension work. They requested payment for this work as soon as possible. Change Order negotiations had already begun but execution of the full change order would take time and could adversely impact the Contractor's ability to make prompt payment to their subcontractor(s). This interim payment change order was then initiated to establish a means of payment for the work performed to date.

Change approvals were received as noted above.

**Payment**

In accordance with Standard Specifications 1-04.4, the Contractor is entitled to compensation for the additional cost of the labor, material and equipment as a result of changes to the Work. The amount of this change order, \$1,500,000, is an estimated interim payment for costs to extend the permanent marine shaft casings and will be adjusted once actual costs are agreed to under Change Order 72 Extended Marine Shaft Casings. See attachment B for the engineer's estimate.

**Time**

Contract time is not affected by this change order.

**DBE Statement**

This change order adds casing to the drilled shafts already being placed by non-DBE subcontractors. It would be impractical for the Contractor to solicit a DBE firm to perform the work alongside the current subcontractors. There will be no additional DBE participation as a result of this change.

**Attachments**

- CCIS Change Order Document (3 pages)
- Change Order Checklist (2 pages)
- Change Approval Emails (Attachment A)
- Engineer's Estimate (Attachment B)

File: CO Files: CO 068; ProjectWise: 16.05.68

**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

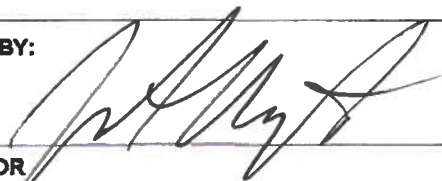
DATE: 12/17/15  
Page 1 of 3

CONTRACT NO: 008625 FEDERAL AID NO: BR-NHPP-0520 (053)  
 CONTRACT TITLE: SR 520, MONTLAKE TO EVERGREEN PT. BRIDGE WEST APPR  
 CHANGE ORDER NO: 68 CASING EXTENSION INTERIM PAY

PRIME CONTRACTOR: SW0178155 FLATIRON WEST, INC  
 18702 NORTH CREEK PARKWAY #202  
 BOTHELL WA 98011-8019




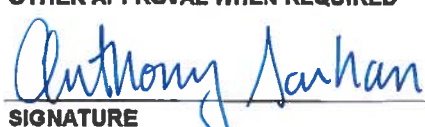
Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications

Change proposed by Contractor

ENDORSED BY:  _____ CONTRACTOR _____ DATE: 12/17/15	SURETY CONSENT: _____ ATTORNEY IN FACT _____ DATE: _____
---	--

ORIGINAL CONTRACT AMOUNT: 199,537,370.50  
 CURRENT CONTRACT AMOUNT: 200,343,095.50  
 ESTIMATED NET CHANGE THIS ORDER: 1,500,000.00  
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 201,843,095.50

Approval Required:  Region  Olympia Service Center  Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED  PROJECT ENGINEER _____ DATE: 12.22.15	<input type="checkbox"/> EXECUTED EXECUTED:  (For) MARK A. GRAVES STATE CONSTRUCTION ENGINEER _____ DATE: 02/01/2016
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED REGIONAL ADMIN:  BY: SR 520 Director of Construction _____ DATE: January 14, 2016	<input type="checkbox"/> EXECUTED OTHER APPROVAL WHEN REQUIRED  SIGNATURE _____ DATE: 1/29/16 REPRESENTING: FHWA

**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

DATE: 12/17/15  
Page 2 of 3

CONTRACT NO: 008625

CHANGE ORDER NO: 68

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 provides an interim estimated payment for work performed to extend the permanent shaft casings for Pier 34-41 to ensure the casings advance adequately into dense soil.

This change order is not considered final compensation for this issue, and therefore does not resolve or assign responsibility for any cost and/or time impacts associated with extending these casings, but instead provides an estimated payment for the Work that shall be adjusted once actual impacts and entitlement are agreed to.

**Construction Criteria:**

WSDOT Serial Letter (SL) 0239, dated October 29, 2015, directed the Contractor to add casing to extend the tip elevation of permanent shaft casings for Piers 34-41.

Full details of these modifications shall be detailed in a separate change order once impacts and entitlement are agreed to.

**Measurement and Payment:**

The new pay item, "CO#68 Casing Extension Interim Pay", in the amount of \$1,500,000, shall be interim payment for additional costs, for the work detailed above, realized by the Contractor and its subcontractors, consultants, and suppliers and shall be adjusted once actual costs and apportionment are agreed to.

**Time:**

Contract time will not be affected by this change order.

**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

DATE: 12/17/15  
Page 3 of 3

<b>CONTRACT NO: 008625</b>				<b>CHANGE ORDER NO: 68</b>			
ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE

1022	01		CO#68 CASING EXTENSION INTERIM PAY	L.S.	1,500,000.00	1.00	1,500,000.00
------	----	--	------------------------------------	------	--------------	------	--------------

-----  
1,500,000.00  
=====

## CHANGE ORDER-CHECKLIST

Cont. #: <u>8625</u> Cont. Title: <u>SR 520 West Approach Bridge North (WABN)</u> C.O. #: <u>68</u> C.O. Title: <u>Casing Extension Interim Pay</u>	If yes, State Construction Office Approval Required.
<b>I. Executed by the State Construction Office</b>	
1. Cost or credit equal to or exceeding \$200,000.*1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <span style="float: right;">X</span>
2. Change in the contract documents beyond the scope, intent or termini of the original contract.*2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
3. Any proposed revision or deletion of work that affects the condition of award requirements. (Must be coded "CO" in CCIS)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
4. Change in contract time greater than 30 working days, or a change in contract time not related to any change order.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
<b>II. Executed by the Region</b>	
5. Cost or credit greater than \$100,000 but less than \$200,000.*1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Change in contract time greater than 10 and less than or equal to 30 working days (must be related to changes implemented by change order).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>III. Executed by the Project Engineer</b>	
7. Determination of impacts and/or overhead.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
8. Specification change involving Headquarters generated specification. <i>(Includes Region generated specification requiring State Construction Office Approval)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
9. Specification change involving Region generated specifications.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10. Material or product substitution.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
11. Structural design change in the roadway section. <i>(Requires State Materials Lab approval)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12. Determination of changed condition. <i>(Section 1-04.7 of the Standard Specifications)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
13. Settlement of a claim. <i>(Section 1-09.11(2) of the Standard Specifications)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
14. Repair of damage regarding "acts of God" or "acts of the public enemy or of government authorities". <i>(Section 1-07.13 of the Standard Specification)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>
15. Structural change to structures. <i>(See BTA authority as shown in the Construction Manual)</i>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">X</span>

**Approvals obtained:** Project Engineer (Required): Brian Dobbins Date: 12/11/2015  
 Region (Required If yes marked): Dave Bechar/Julia Meredith Date: 12/11/2015  
 State Construction Office: Derek Case Date: 12/14/2015  
 State Materials Lab: N/A Date: \_\_\_\_\_  
 Other (Local Agency, FHWA, Surety, etc.): Anthony Sarhan Date: 12/15/2015

**To be completed by the Project Engineer :**

CO Reason(s) (See "2008 Codes and Definitions" on HQ Construction SharePoint): AI-04, UC, AW, DS  
 Change Order Prepared By: Michelle Huggins Date: 12/15/2015  
 Has change been entered as lesson learned?  Yes  No Has design documentation been updated?  Yes  No  
 Is this project under full FHWA stewardship oversight? \*1  Yes  No

**To be completed by the Region :**

Is the change eligible for Federal participation where applicable?  Yes  No  
 Change Order Reviewed by: Jon Danks Date: 12/28/2015

\*1 Change (Cost or Credit) greater than \$200,000 or greater than 30 days on Full Federal Stewardship Oversight projects requires FHWA approval. (see Construction Manual - Chapter 1-2.4C(3), Chapter 1-3.4, and <http://www.wsdot.wa.gov/blz/construction/Stewardship/Stewardship.xls>)  
 \*2 Per RCW 47.28.050, any change beyond \$7,500 that is beyond the original scope shall go through the competitive bidding process.

This form represents the minimum information required by the State Construction Office. If you wish to supplement this information, you may do so on a separate sheet of paper.

## CHANGE ORDER-CHECKLIST

### SR 520 Corridor Program: Change Order Page 2 - Checklist Supplement

Cont. #:

C.O. #:

**To be completed by the Project Engineer:**

Does this change order require coordination with other SR 520 Projects / Program Areas?  Yes  No

Coordination has taken place with:

Contract Project (identify your project):

Pontoon	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
Pontoon Mitigation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
Pontoon Moorage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
Eastside HOV	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
Evans Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
FB&L	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
WCB	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
WABN	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>

Identified risk has been entered into the SR 520 Risk Management Database:  Yes  No  N/A

Risk ID Number (if pending, identify as Pending):

Project Risk ID No.:	<input type="text" value="WN.CNS.900.01"/>
Project Risk ID No.:	<input type="text" value="N/A"/>
Project Risk ID No.:	<input type="text" value="N/A"/>

**To be coordinated with Program Finance, Budget and Controls Group:**

Program Funding Concurrence?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Funding Concurrence Obtained on:	Date: <input type="text" value="12/16/2015"/>
Is Sales Tax Included in CO Cost?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is sales tax deferred?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Max Payment Curve Changes discussed with:	<input type="text" value="Janet Buoy"/>	Date:	<input type="text" value="12/16/2015"/>
Third Party Agreements discussed with:	<input type="text" value="N/A"/>	Date:	<input type="text"/>

**Coordination with Others:**

Design / Technical Lead:	Name: <input type="text" value="Jeremy Butkovich"/>	Date: <input type="text" value="10/29/2015"/>
Maintenance:	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>
Environmental Commitments:	Name: <input type="text" value="N/A"/>	Date: <input type="text"/>