


SHEET 1 OF 2 DATE: 12/17/09	<b>KITTITAS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>CHANGE ORDER</b>	CHANGE ORDER NUMBER  1
<input type="checkbox"/> Ordered by Engineer in accordance with Section 1-04.4 of the Standard Specifications  <input checked="" type="checkbox"/> Change order proposed by Contractor	TO: <b>Western Engineering Constructors Inc</b> <b>PO Box #84567</b> <b>Seattle, WA 98124-5867</b>	
ENDORSED BY:  3/31/10 Signature _____ Date _____ Title: <u>President</u>	PROJECT TITLE:  <b>West Fork Teanaway RD Bridge Replacement</b>	
CONSENT GIVEN BY SURETY: (When required)  By: _____ Attorney -in-fact _____ Date _____	CRP  <b>CRP #RC 1487</b>  <b>FA# BRS-19BG (001)</b>	
<p style="text-align: center;"><b>DESCRIPTION OF WORK</b></p> <p>YOU ARE ORDERED TO PERFORM THE FOLLOWING DESCRIBED WORK UPON RECEIPT OF AN APPROVED COPY OF THIS CHANGE ORDER. THE UNDERSIGNED HEREBY PROPOSES TO UNDERTAKE AND COMPLETE THIS IMPROVEMENT, IN ACCORDANCE WITH SAID PLANS, SPECIFICATIONS, AND CONTRACT, AND THE FOLLOWING SCHEDULE OR RATES AND PRICES.</p> <p><b><u>Add new item #40 Common Borrow including haul</u></b> – This item is to change the unit measure of Bid Item # 6 from Tons to Cubic Yards.</p> <p><b><u>Add new item #41 Additional De-Watering for Foundation</u></b> – This item is to compensate contractor for labor, equipment, and materials for additional excavation de-watering as required at east and west abutment pier foundation depth changes.</p> <p><b><u>Increase item #12 Structure Excavation</u></b>– This item is to compensate contractor for labor, equipment, and materials for additional quantity as required at east and west abutment pier foundation depth changes.</p> <p><b><u>Increase item #14 Gravel Backfill for Walls</u></b> – This item is to compensate contractor for labor, equipment, and materials for additional quantity as required at east and west abutment pier foundation depth changes.</p> <p><b><u>Increase item #15 Steel Reinforcing Bars</u></b> – This item is to compensate contractor for labor, equipment, and materials for additional quantity as required at east and west abutment pier foundation depth changes.</p> <p><b><u>Increase item #16 Concrete Class 4000</u></b>– This item is to compensate contractor for labor, equipment, and materials for additional quantity as required at east and west abutment pier foundation depth changes.</p>		

## Measurement and Payment

**Item # 40-Common Borrow including haul** - payment shall be at the converted bid unit price of **\$1.60 per CY** which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 2-03.5.

**Item # 41- Additional De-Watering for Foundation** payment shall be at the negotiated Lump Sum unit price of **\$6949.94** which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 2-09.5.

**Item #12 Structure Excavation** – payment shall be at the original unit price of **\$6.00 per CY** which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 2-09.5.




**Item #14 Gravel Backfill for Walls** – payment shall be at the original unit price of **\$27.60 per CY** which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 2-09.5.

**Item #15 Steel Reinforcing Bars**– payment shall be at the original unit price of **\$1.00 per LB** which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 6-02.5.

**Item #16 Concrete Class 4000**– payment shall be at the original unit price of **\$600.00 per CY** which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 6-02.5.


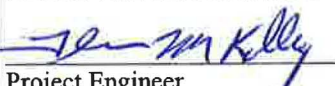


## Contract Time

**5 additional working days are added to this contract due to this change order.**

	ORIGINAL CONTRACT AMOUNT  <b>\$671,568.00</b>	CURRENT CONTRACT AMOUNT  <b>\$671,568.00</b>	ESTIMATED NET CHANGE THIS ORDER  <b>\$15,768.14</b>	ESTIMATED CONTRACT TOTAL AFTER CHANGE  <b>\$687,336.14</b>
APPROVAL RECOMMENDED   Project Engineer  APPROVED   Director		APPROVED   Chairperson Board of County Commissioners  Date <b>4/6/10</b>  Date <b>3-31-10</b>  Date <b>4-1-10</b>		

SHEET 2 of 2		KITITAS COUNTY DEPARTMENT OF PUBLIC WORKS CHANGE ORDER ESTIMATE			C.R.P. RC 1487 Change Order #1	
ITEM NO.	GRP. NO.	DESCRIPTION	UNIT MEAS.	UNIT PRICE	EST. QUAN. CHANGE	EST. AMOUNT CHANGE
7	1	Common Borrow including haul	TON	\$1.00	(-2125)	(-\$2125)
40	1	Common Borrow including haul	CY	\$1.60	1328	\$2125.00
41	1	Additional De- Watering for Foundation	LS	\$6949.94	1	\$6949.94
12	1	Structure Excavation including haul	CY	\$6.00	56	\$336.00
14	1	Gravel Backfill for Walls	CY	\$27.60	72	\$1987.20
15	1	Steel Reinforcement Bars	LBS	\$1.00	2295	\$2295.00
16	1	Concrete Class 4000	CY	\$600.00	7	<u>\$4200.00</u>
					<b>TOTAL</b>	<b>\$15,768.14</b>



SHEET 1 OF 2 DATE: <b>12/17/09</b>	<b>KITTITAS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>CHANGE ORDER</b>	CHANGE ORDER NUMBER  <b>2</b>								
<input type="checkbox"/> Ordered by Engineer in accordance with Section 1-04.4 of the Standard Specifications  <input checked="" type="checkbox"/> Change order proposed by Contractor		TO: <b>Western Engineering Constructors Inc</b> <b>PO Box #84567</b> <b>Seattle, WA 98124-5867</b>								
ENDORSED BY: <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">             Signature            Title: <u>President</u> </div> <div style="text-align: center;"> <u>3/31/10</u>            Date         </div> </div>		PROJECT TITLE:  <b>West Fork Teanaway RD Bridge Replacement</b>								
CONSENT GIVEN BY SURETY: (When required)  By: _____ <div style="display: flex; justify-content: space-between;"> <span>Attorney -in-fact</span> <span>Date</span> </div>		CRP  <b>CRP #RC 1487</b>  <b>FA# BRS-19BG (001)</b>								
<b>DESCRIPTION OF WORK</b>  YOU ARE ORDERED TO PERFORM THE FOLLOWING DESCRIBED WORK UPON RECEIPT OF AN APPROVED COPY OF THIS CHANGE ORDER. THE UNDERSIGNED HEREBY PROPOSES TO UNDERTAKE AND COMPLETE THIS IMPROVEMENT, IN ACCORDANCE WITH SAID PLANS, SPECIFICATIONS, AND CONTRACT, AND THE FOLLOWING SCHEDULE OR RATES AND PRICES.  <b>Add new item #42 Additional Excavation for Foundation</b> -- This item is to compensate contractor for labor, equipment, and materials for additional excavation as required at east and west abutment pier foundation depth changes.  <u>Measurement and Payment</u>  <b>Item # 42- Additional Excavation for Foundation-</b> payment shall be at the negotiated Lump Sum unit price of <b>\$23,389.52</b> which shall include all costs of labor, equipment, and materials to perform the work in accordance with WSDOT Standard Specifications section 2-09.3.  <u>Contract Time</u>  <b>NO</b> additional working days are added to this contract due to this change order.										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">ORIGINAL CONTRACT AMOUNT</th> <th style="width: 25%;">CURRENT CONTRACT AMOUNT</th> <th style="width: 25%;">ESTIMATED NET CHANGE THIS ORDER</th> <th style="width: 25%;">ESTIMATED CONTRACT TOTAL AFTER CHANGE</th> </tr> <tr> <td style="text-align: center;"><b>\$671,568.00</b></td> <td style="text-align: center;"><b>\$687,336.14</b></td> <td style="text-align: center;"><b>\$23,389.52</b></td> <td style="text-align: center;"><b>\$710,725.66</b></td> </tr> </table>		ORIGINAL CONTRACT AMOUNT	CURRENT CONTRACT AMOUNT	ESTIMATED NET CHANGE THIS ORDER	ESTIMATED CONTRACT TOTAL AFTER CHANGE	<b>\$671,568.00</b>	<b>\$687,336.14</b>	<b>\$23,389.52</b>	<b>\$710,725.66</b>	
ORIGINAL CONTRACT AMOUNT	CURRENT CONTRACT AMOUNT	ESTIMATED NET CHANGE THIS ORDER	ESTIMATED CONTRACT TOTAL AFTER CHANGE							
<b>\$671,568.00</b>	<b>\$687,336.14</b>	<b>\$23,389.52</b>	<b>\$710,725.66</b>							
APPROVAL RECOMMENDED <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">             Project Engineer             APPROVED              Director         </div> <div style="text-align: center;"> <u>3-31-10</u>            Date   <u>4-1-10</u>            Date         </div> </div>		APPROVED <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">             Chairperson            Board of County Commissioners         </div> <div style="text-align: center;"> <u>4/16/10</u>            Date         </div> </div>								

SHEET 2 of 2		KITITITAS COUNTY DEPARTMENT OF PUBLIC WORKS CHANGE ORDER ESTIMATE			C.R.P. RC 1487 Change Order #2	
ITEM NO.	GRP. NO.	DESCRIPTION	UNIT MEAS.	UNIT PRICE	EST. QUAN. CHANGE	EST. AMOUNT CHANGE
42	1	Additional Excavation for Foundation	LS	\$23,389.52	1	\$23,389.52
					TOTAL	\$23,389.52

## Verbal Change Order

This document is a supplement to the written justification.

Project: <b>WF Teanaway Bridge Replacement – RC-1487 / FA# BRS-19BG(001)</b>	
Change Order No. 1	
Project Engineer: Tom Kelley – Construction Mgr. <i>TK 8-24-09</i>	
Date of Verbal Approval: 8-24-09	
Verbal Approval Given by: Kirk Holmes - PW Director <i>KH</i>	
Verbal Approval by Project Manager (Reimbursable Projects): <u>Doug D'Hondt PE</u>	
Signature: <i>[Signature]</i>	Date: <u>8-24-09</u>
Nature of work:	
Delete Item #6 Common Borrow with Unit measure in TONS, and add Item #40 Common Borrow with Unit measure in CY at the unit bid price conversion- <b>No additional cost</b>	
During excavation activities by contractor the design footing base elevation encountered existing soil conditions that were not in accordance with soils report contained in project plans. In order to meet soil bearing requirements, additional structure excavation was required to achieve the acceptable bearing capacity for this proposed foundation installation.	
This condition could create quantity increases in the following bid items:	
Item #12-Structure Excavation; the incidental item of an additional larger de-watering pump to work with the differing soil conditions and increased depth was increased by mobilization to site, additional time, increased operating costs, and de-mobilization from site.	
Item #13-Shoring & Extra Excavation; this Lump Sum item was increased from original bid for additional time, larger equipment, increased operating costs, and excavation quantity.	
Items # 14-Gravel Backfill for Walls, 15-Steel Reinforcing Bars, 16-Concrete Class 4000 are increased from original plan quantity at the unit bid prices	
These costs will be identified, negotiated, and agreed upon with contractor. <b>Estimated cost range is \$8,000 to \$12,000.</b>	

Why is a verbal required? Discuss issues such as:
<ul style="list-style-type: none"> <li>• Contract Delay</li> <li>• Liabilities</li> <li>• Safety Concerns</li> <li>• Cost Savings</li> <li>• Attach Estimate of the Work</li> </ul>
In order to avoid contractor delay and the stand by charges associated, there is a potential impact to the Progress Schedule, and there are HPA requirements tied to calendar dates that limit the allowed time to work within the high water mark of the river.
The liability associated with not complying with required soil bearing capacity has many varied impacts in the term of new structure lifespan.
The safety concerns associated with that liability is tremendous, as well as the risk of an un-attended open excavation during a standby time frame is increased.
There is a greater cost savings associated with contractor cooperation to reduce the potential cost by expediting Change Order agreement.
Attached please find estimate breakdown information.

## CONSTRUCTION CHANGE ORDER JUSTIFICATION

PROJECT ENGINEER: Tom Kelley-Construction Manager		DATE: 12-17-09
PROJECT NAME: <b>West Fork Teanaway Bridge Replacement</b>	PROJECT NO.: <b>RC1487/FA#BRS-19BG(001)</b>	CHANGE ORDER NO.: <b>1</b>

### WRITTEN JUSTIFICATION

<b>1. Description of Change.</b>  Item #12-Structure Excavation; the incidental item of a higher volume water pump necessary to control the increased amount of water seepage from river into excavation due to the additional 3' depth of excavation with the differing soil conditions was increased by mobilization to site, additional time, increased operating costs, and de-mobilization from site. Item #13-Shoring & Extra Excavation; this Lump Sum item was increased from original bid for additional time, increased operating costs, and excavation quantity. Items # 14-Gravel Backfill for Walls, 15-Steel Reinforcing Bars, 16-Concrete Class 4000 are increased from original plan quantity at the unit bid prices.
<b>2. What is required by Contract? Why the change? (Reference plan sheets &amp; spec sections.)</b>  Contract Plans Page 13 of 26; Pier Details-section A (IE=elevation 2255)(Actual Bearing Capacity elevation = 2253.5) Contract Plans Page 14 of 26; Pier Details-section A (IE=elevation 2250)(Actual Bearing Capacity elevation = 2247.0) The Geotechnical Report contained in the Contract Project Specifications Appendix A indicates dense material of suitable bearing capacity at the proposed design elevation, which was actually encountered at a lower elevation to meet bearing capacity requirements.
<b>3. How is change order the solution?</b>  WSDOT Standard Specifications section 1-04.7-Differing Site Conditions. In order to complete the foundations for abutment pier footings it was necessary for the contractor to bring to site larger specialized equipment, and has incurred additional costs in equipment, labor, and materials to complete the work as required.
<b>4. Alternative(s) considered.</b>  In order to avoid contractor delay and the stand by charges associated, there is a potential impact to the Progress Schedule, and there are HPA requirements tied to calendar dates that limit the allowed time to work within the high water mark of the river.
<b>5. Reason for entitlement and why it cannot be paid under existing contract.</b>  This is a change order item as defined in WSDOT Standard Specifications section 1-04.7-Differing Site Conditions. Written notice was provided by contractor for this condition as required by specifications. The additional compensation for this work is not included in this contract. Add Bid Item #41 Additional De-watering for Foundation at the negotiated shared cost as per Standard Specifications.
<b>6. Approvals: project manager, technical advisor (Traffic, Structural), jurisdiction, other agency.</b>  Verbal Approval was given on 8-24-09 by Doug D'Hondt PE, and Kirk Holmes PW Director. Structural Engineer JJ Lee PE concurred.
<b>7. Time: increase or decrease working days.</b>  There will be 5 additional Working Days added to the time for completion on this contract by Change Order #1.
<b>8. Cost: establish or verify increase or decrease. (Contractor proposal, Engineer's estimate, negotiated, supplier, bid item, etc.)</b>  There is a greater cost savings associated with contractor cooperation to reduce the potential cost by expediting Change Order agreement. These costs have been identified, negotiated, and agreed upon with contractor to share these incurred costs with the county. <b>Estimated cost range is \$8,000 to \$12,000.</b>
Attached please find estimate breakdown information.

Attach backup documentation.



## Verbal Change Order

This document is a supplement to the written justification.

Project: <b>WF Teanaway Bridge Replacement – RC-1487 / FA# BRS-19BG(001)</b>	
Change Order No. 2	
Project Engineer: Tom Kelley – Construction Mgr. <i>JK 8-24-09</i>	
Date of Verbal Approval: 8-24-09	
Verbal Approval Given by: Kirk Holmes - PW Director <i>KH</i>	
Verbal Approval by Project Manager (Reimbursable Projects): Doug D'Hondt PE	
Signature: <i>[Signature]</i>	Date: 8-24-09
Nature of work:	
WSDOT Standard Specifications section 1-04.7-Differing Site Conditions. The Soils Report in the Contract plans indicate dense material of suitable bearing capacity at the indicated design elevation which was actually at a lower elevation to meet bearing capacity requirements.	
This condition will create quantity increases in the following bid items:	
12-Structure Excavation, 13-Shoring & Extra Excavation, 14-Gravel Backfill for Walls, 15-Steel Reinforcing Bars, 16-Concrete Class 4000, and incidentals related to other bid items.	
Item #12-Structure Excavation; the incidental item of a hydraulic hammer to work with the differing soil conditions was increased by mobilization to site, additional time, increased operating costs, and de-mobilization from site.	
Item #13-Shoring & Extra Excavation; this Lump Sum item was increased from original bid for additional time, increased operating costs, and excavation quantity.	
Items # 14-Gravel Backfill for Walls, 15-Steel Reinforcing Bars, 16-Concrete Class 4000 are increased from original plan quantity at the unit bid prices	
These costs will be identified, negotiated, and agreed upon with contractor. <b>Estimated cost range is \$8,000 to \$12,000.</b>	

Why is a verbal required? Discuss issues such as:
<ul style="list-style-type: none"> <li>• Contract Delay</li> <li>• Liabilities</li> <li>• Safety Concerns</li> <li>• Cost Savings</li> <li>• Attach Estimate of the Work</li> </ul>
In order to avoid contractor delay and the stand by charges associated, there is a potential impact to the Progress Schedule, and there are HPA requirements tied to calendar dates that limit the allowed time to work within the high water mark of the river.
The liability associated with not complying with required soil bearing capacity has many varied impacts in the term of new structure lifespan.
The safety concerns associated with that liability is tremendous, as well as the risk of an un-attended open excavation during a standby time frame is increased.
There is a greater cost savings associated with contractor cooperation to reduce the potential cost by expediting Change Order agreement.
Attached please find estimate breakdown information.



## CONSTRUCTION CHANGE ORDER JUSTIFICATION

PROJECT ENGINEER: Tom Kelley-Construction Manager <i>TK</i> <i>12-17-09</i>		DATE: 12-17-09
PROJECT NAME: <b>West Fork Teanaway Bridge Replacement</b>	PROJECT NO.: <b>RC1487/FA#BRS-19BG(001)</b>	CHANGE ORDER NO.: <b>2</b>

### WRITTEN JUSTIFICATION

<b>1. Description of Change.</b>  Item #12-Structure Excavation; the incidental item of a hydraulic hammer to work with the differing soil conditions was increased by mobilization to site, additional time, increased operating costs, and de-mobilization from site. Item #13-Shoring & Extra Excavation; this Lump Sum item was increased from original bid for additional time, increased operating costs, and excavation quantity. Items # 14-Gravel Backfill for Walls, 15-Steel Reinforcing Bars, 16-Concrete Class 4000 are increased from original plan quantity at the unit bid prices in accordance with Change Order #1.
<b>2. What is required by Contract? Why the change? (Reference plan sheets &amp; spec sections.)</b>  Contract Plans Page 13 of 26; Pier Details-section A (IE=elevation 2255)(Actual Bearing Capacity elevation = 2253.5) Contract Plans Page 14 of 26; Pier Details-section A (IE=elevation 2250)(Actual Bearing Capacity elevation = 2247.0) The Geotechnical Report contained in the Contract Project Specifications Appendix A indicates dense material of suitable bearing capacity at the proposed design elevation, which was actually encountered at a lower elevation to meet bearing capacity requirements.
<b>3. How is change order the solution?</b>  WSDOT Standard Specifications section 1-04.7-Differing Site Conditions. In order to complete the foundations for abutment pier footings it was necessary for the contractor to bring to site larger specialized equipment, and has incurred additional costs in equipment, labor, and materials to complete the work as required.
<b>4. Alternative(s) considered.</b>  In order to avoid contractor delay and the stand by charges associated, there is a potential impact to the Progress Schedule, and there are HPA requirements tied to calendar dates that limit the allowed time to work within the high water mark of the river.
<b>5. Reason for entitlement and why it cannot be paid under existing contract.</b>  This is a change order item as defined in WSDOT Standard Specifications section 1-04.7-Differing Site Conditions. Written notice was provided by contractor for this condition as required by specifications. The additional compensation for this work is not included in this contract. Add Bid Item #42 Additional Excavation for Foundation at the negotiated shared cost as per Standard Specifications.
<b>6. Approvals: project manager, technical advisor (Traffic, Structural), jurisdiction, other agency.</b>  Verbal Approval was given on 8-24-09 by Doug D'Hondt PE, and Kirk Holmes PW Director. Structural Engineer JJ Lee PE concurred.
<b>7. Time: increase or decrease working days.</b>  There will be no additional Working Days added to the time for completion on this contract by this change order.
<b>8. Cost: establish or verify increase or decrease. (Contractor proposal, Engineer's estimate, negotiated, supplier, bid item, etc.)</b>  There is a greater cost savings associated with contractor cooperation to reduce the potential cost by expediting Change Order agreement. These costs have been identified, negotiated, and agreed upon with contractor to share these incurred costs with the county. <b>Estimated cost range is \$8,000 to \$12,000.</b>
Attached please find estimate breakdown information.

Attach backup documentation.