



Change Order Checklist

Cont. #: <u>009398</u> Cont. Title: <u>West Jefferson County Remove Fish Barrier</u>		If yes, State Construction Office Approval Required.
C.O. #: <u>02</u> C.O. Title: <u>Steamboat Detour Redesign</u>		
I. Executed by the State Construction Office		
1. Cost or credit equal to or exceeding \$500,000. *1, *3		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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
3. Any proposed revision or deletion of work that affects the condition of award requirements. (Must be coded "CO" in CCIS. Includes changes to goal or commitment)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Change in contract time greater than 30 working days, or a change in contract time not related to any change order. *1		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
II. Executed at the Region (Per Delegation)		
5. Determination of impacts and/or overhead.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Change to Contract Provisions or Standard Plans.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7. Material or product substitution. (Excludes materials associated with Std. Specification Sections 6-07, 8-01, 8-02, 8-12, 8-18 & 8-20)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. Structural design change in the roadway section. (Requires concurrence from designer)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Determination of changed condition. (Section 1-04.7 of the Standard Specifications)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10. Settlement of a claim. (Section 1-09.11(2) of the Standard Specifications)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. Repair of damage regarding "acts of God" or "acts of the public enemy or of government authorities". (Section 1-07.13 of the Standard Specification)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12. Structural change to structures.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Approvals obtained:

Project Engineer: Paul Mason Date: 7/16/2019

Region: Dave Ziegler Date: 7/16/2019

State Construction Office: Marco Foster Date: 7/16/2019

Other (Local Agency, FHWA, Surety, etc.): _____ Date: _____

To be completed by the Project Engineer :

CO Reason(s) (See "2008 Codes & Definitions" on State Construction Office web page): AD, 06, PM, DS

Change Order Prepared By: Kevin Dahl Date: 10/4/2019

Is this project under full FHWA stewardship oversight (Project Of Division Interest)? *1 Yes No

To be completed by the Region :

Is the change eligible for Federal participation where applicable? Yes No

Change Order Reviewed By: _____ Date: _____

*1 Change (Cost or Credit) greater than \$200,000 or greater than 30 days on Projects Of Division Interest (PODI) requires FHWA approval. (see Construction Manual - Chapter 1-00.10, Chapter SS1-04.4, and State Construction Office web page)

*2 Per RCW 47.28.050, any change beyond \$7,500 that is beyond the original scope shall go through the competitive bidding process.

*3 Engineering error changes over \$500,000 requires reporting (See reporting instructions & template on State Construction Office web page)

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.



Contract Number 009398	Contract Title West Jefferson County Remove Fish Barriers	Federal Aid Number NHPP-0101(382)
Change Order Number 02	Change Description Steamboat Detour Redesign	Date January 6, 2020
Region Olympic Region	Project Engineer Paul Mason	Phone Number 360-538-8500
Prime Contractor / Design-Builder Quigg Bros., Inc.		

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

Evolution & Description Of Change

This change order revises the planned embankment construction of the Steamboat Detour roadway, and provides compensation to the Contractor for the added Work and schedule recovery.

The Contract specifies construction of a detour roadway to facilitate the building of the Steamboat Creek Bridge No. 101/209. This detour roadway was designed on the east side of the new structure with a 185 foot long temporary retaining wall intended to support the fill section of the detour roadway. The Contract specifications state the wall shall be a temporary geosynthetic retaining wall constructed in accordance with Section 6-14.

Prior to the start of construction, the Contractor asserted that the plans were incomplete and did not account for the Structure Excavation Class A or Structural Shoring that would be required to construct the wall as specified in accordance with Section 6-14.3(3) and Section 2-09.3(3). The Contractor noted that the limits of excavation for the temporary geosynthetic retaining wall fell within the limits of existing roadway so there was no way to maintain even a single lane of traffic during construction of the detour. Structural Shoring also would be necessary between the detour roadway and the construction of the new bridge.

The Contract special provision for the detour is lump sum item covering the complete construction and removal of the detour roadway. The Contractor stated that the informational quantities provided in the special provision did not account for the Structure Excavation Class A or Structural Shoring items of work and they did not account for these costs in their bid. The Project Engineer requested from the Contractor a proposal for alternatives that addressed the omissions and constructability issues identified. The Contractor proposed a detour bridge to replace the temporary geosynthetic retaining wall as the most economical and expeditious option. The estimated time to construct this option provided the least amount of risk that an additional in water work window would be needed and the Contract could be completed within the original number of working days.

The APEO confirmed with the Design Engineer of Record (EOR) that there was an omission in the Contract as the Contractor stated. The EOR also agreed that a detour bridge was a viable option.

The design for the bridge option did extend the limits of temporary cuts and fills further than shown in the Contract. Those extended limits are within the Special Use Permit area on National Park Service land. The National Park Service assessed the minor impacts and provided Notice to Proceed.

Marco Foster, HQ Construction approved the change and notice to proceed on 7/16/19. Dave Ziegler, OR Construction & Paul Mason, Asst. Project Engineer, approved the change on 7/16/19. (attachment B)

Contract Number 009398	Contract Title West Jefferson County Remove Fish Barriers	Change Order Number 02												
<p>Basis Of Cost & Justification:</p> <p>The Contractor is entitled to additional compensation for added construction Work not included in the Contract, design costs, and schedule recovery costs. The engineer's estimated net cost for the added work was \$729,406. (attachment C)</p> <p>The Contractor's proposal for the change order Work was \$631,451 and schedule recovery was \$48,496 for a total of \$679,947. The proposal was accepted.</p>														
<p>Contract Time:</p> <p>This change order does not impact the critical path; therefore, no extension of Contract time is warranted.</p>														
<p>Prior Approvals:</p> <table border="0"> <thead> <tr> <th><u>Approvals Obtained:</u></th> <th><u>Change Approval</u></th> <th><u>Approval to Proceed</u></th> </tr> </thead> <tbody> <tr> <td>Project Engineer: Paul Mason</td> <td>7/16/2019</td> <td></td> </tr> <tr> <td>OR Construction: Dave Ziegler</td> <td>7/16/2019</td> <td></td> </tr> <tr> <td>HQ Construction: Marco Foster</td> <td>7/16/2019</td> <td>7/16/19</td> </tr> </tbody> </table>			<u>Approvals Obtained:</u>	<u>Change Approval</u>	<u>Approval to Proceed</u>	Project Engineer: Paul Mason	7/16/2019		OR Construction: Dave Ziegler	7/16/2019		HQ Construction: Marco Foster	7/16/2019	7/16/19
<u>Approvals Obtained:</u>	<u>Change Approval</u>	<u>Approval to Proceed</u>												
Project Engineer: Paul Mason	7/16/2019													
OR Construction: Dave Ziegler	7/16/2019													
HQ Construction: Marco Foster	7/16/2019	7/16/19												
<p>List Attachments:</p> <p>Attachment A: 1 pg Change Order Checklist Attachment B: 4 pgs Change Approval & Approval to Proceed Attachment C: 7 pgs Independent Engineer's Estimate.</p>														

Distribution By: Project Office

- Copy of Change Records & Change Order w/Backup - Project Engineer
- Copy of ONLY Change Order - Prime Contractor / Design-Builder
- Electronic Copy of Change Records & Change Order w/Backup - State Construction Office
- Original of Change Records & Change Order w/Backup - Region Construction Office
Region
- Original of Change Records & Change Order w/Backup - State Construction Office

**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**


DATE: 11/27/19
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CONTRACT NO: 009398 FEDERAL AID NO: NHPP-0101(382)
 CONTRACT TITLE: US 101, WEST JEFFERSON COUNTY REMOVE FISH BARRIERS
 CHANGE ORDER NO: 2 STEAMBOAT DETOUR REDESIGN

PRIME CONTRACTOR: [REDACTED] QUIGG EROS., INC.
 819 W STATE ST
 98520-5934
 ABERDEEN WA 98520-0281

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

Change proposed by Contractor

ENDORSED BY:  _____ JOHN D QUIGG CONTRACTOR _____ 11/27/2019 DATE	SURETY CONSENT: _____ ATTORNEY IN FACT _____ DATE
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ORIGINAL CONTRACT AMOUNT: 15,542,998.00
 CURRENT CONTRACT AMOUNT: 15,537,568.00
 ESTIMATED NET CHANGE THIS ORDER: 679,947.00
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 16,217,515.00

Approval Required: Region ~~Olympia Service Center~~ Local Agency
 HQ Construction

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED _____ Paul Mason PROJECT ENGINEER _____ 2019.11.27 DATE	EXECUTED: _____ STATE CONSTRUCTION ENGINEER _____ 12/3/19 DATE
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED REGIONAL ADMIN: John Wynands BY: _____ _____ DATE 12/2/19	OTHER APPROVAL WHEN REQUIRED SIGNATURE _____ DATE _____ REPRESENTING _____

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**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

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CONTRACT NO: 009398

CHANGE ORDER NO: 2

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 deletes bid item 15, and adds Work to provide a temporary single-lane detour for the Steamboat Creek site, for use during the Project. This Work includes pumping or draining excavated areas, protecting excavated slopes and materials from erosion, furnishing materials, and placing, and compacting, and removing backfill. This detour shall include a temporary bridge, approaches, temporary retaining walls, and other Work as necessary. The Contractor is responsible for the design, procurement, construction, maintenance and removal of the detour in its entirety and grade to final grade as shown in the plans.

This change also provides payment to the Contractor for all additional efforts to ensure physical completion is achieved within the Time for Completion of this Contract.

Materials:

All materials shall be in accordance with the Standard Specifications including Amendments and Special Provisions of the Contract.

Construction Requirements:

All Work associated with the temporary bridge shall be in accordance with the Contract Provisions page 187 line 14 through page 188 line 45.

The minimum width of the temporary bridge between barriers or railings shall be twenty-one (21) feet.

The Contractor shall reconstruct shoulders damaged due to traffic load to its pre-construction condition after the temporary detour road is no longer needed.

The Contractor shall submit a Schedule Update in accordance with Section 1-08.3(3), which shows all additional Work associated with this change completed within the number of "working days" stated in the Contract Provisions.

Plan sheets 164 and 166 are replaced with pages 5 and 6 of this change order.

Measurement:

No specific unit of measurement shall apply to the new Lump Sum item "CO#2 Temp Detour Steamboat".

No specific unit of measurement shall apply to the new Lump Sum item "CO#2 Schedule Recovery".

WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER

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CONTRACT NO: 009398

CHANGE ORDER NO: 2

Payment:

"CO#2 Temp Detour Steamboat" lump sum.

The lump sum price for "CO#2 Temp Detour Steamboat" shall be full pay for costs for performing the Work as specified.

"CO#2 Schedule Recovery" lump sum.

The lump sum price for "CO#2 Schedule Recovery" shall be full pay for a Schedule Update and any and all costs, related to additional efforts associated with this change that are necessary to ensure physical completion is achieved within the Time for Completion of this Contract.

Bid item #15 "Temporary Detour Install and Remove - Steamboat Creek", lump sum is deleted.

Contract Time:

No extension of Contract time is granted as a result of this change order.

**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

DATE: 11/27/19
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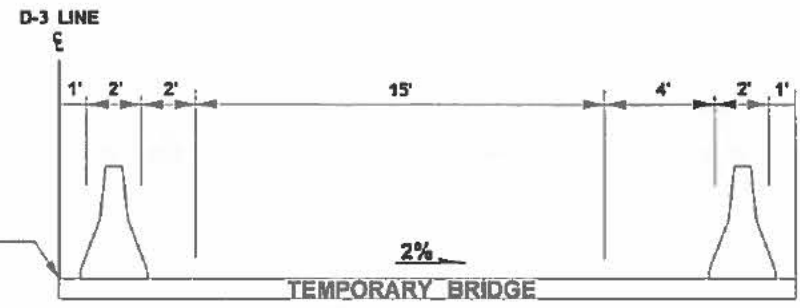
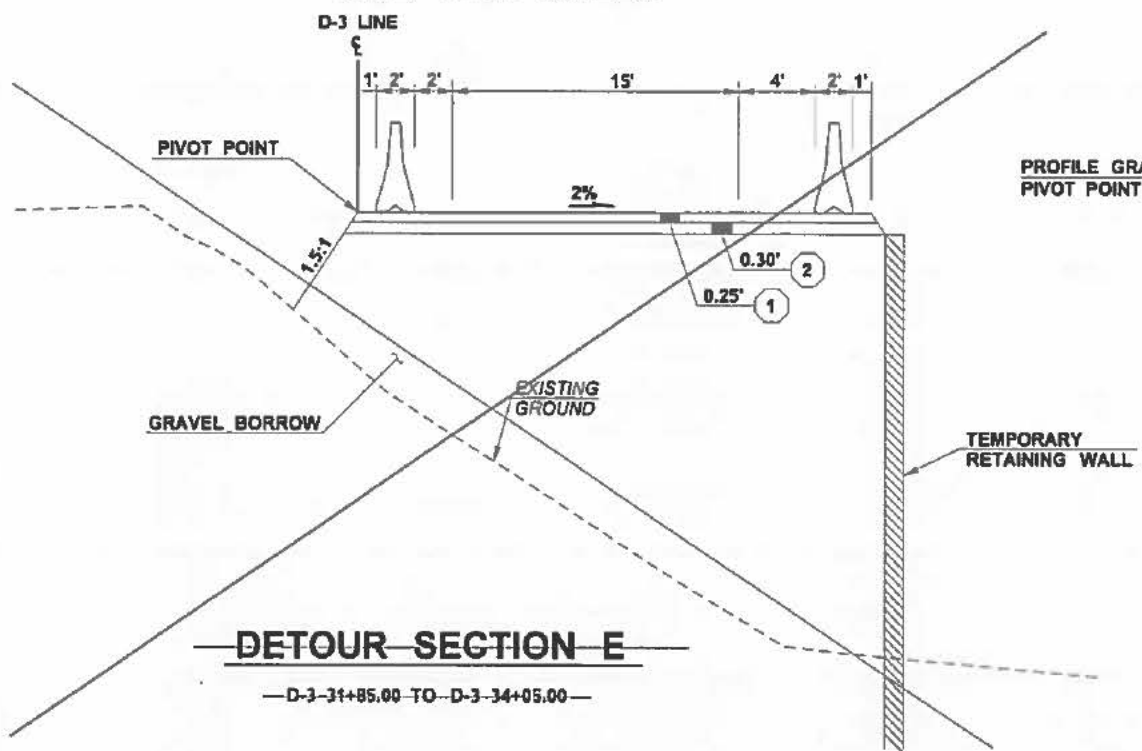
CONTRACT NO: 009398 CHANGE ORDER NO: 2

ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE
0015	03		TEMPORARY DETOUR INSTALL AND REMOVE - STE	L.S.	400,000.00	0.00	-400,000.00
1902	125	03	CO#2 TEMP DETOUR INSTALL & REMOVE STEAMBO	L.S.	0.00	0.00	1,031,451.00
1903	126	03	CO#2 SCHEDULE RECOVERY	L.S.	0.00	0.00	48,496.00

679,947.00

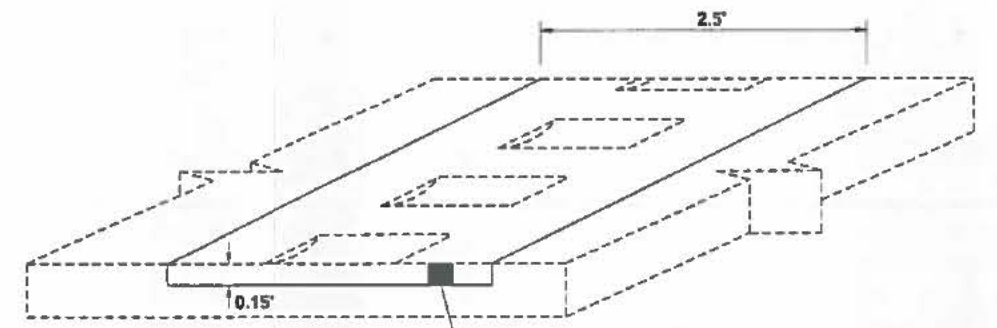
Change order No. 2
Page 5 of 6

SECTION E REPLACED
SEE THIS SHEET



DETOUR SECTION E

D-3 31+34 TO D-3 34+03.50



RUMBLE STRIP REMOVAL AND INLAY DETAIL

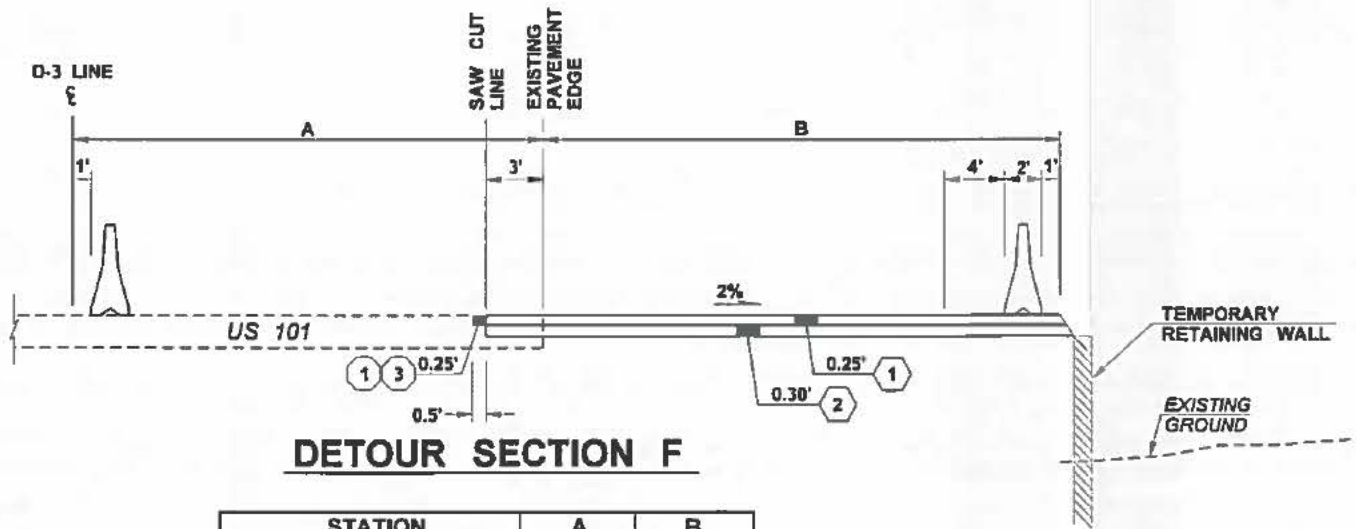
M-3 547+04.00 TO M-3 548+64.00
M-3 558+85.00 TO M-3 560+56.00

NOTES:

1. ALL HMA DEPTHS SHOWN ARE FINAL COMPACTED DEPTHS. SEE STD SPEC 5-04 3(7) FOR MAXIMUM COMPACTED DEPTHS PER LAYER.
2. ALL CRUSHED SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS SEE STD SPEC 4-04 3(4) FOR MAXIMUM COMPACTED DEPTHS PER COURSE.
3. SEE DETOUR PLANS FOR VARIABLE WIDTH DIMENSIONS. UNLESS OTHERWISE NOTED, VARIABLE WIDTH DIMENSIONS REPRESENT MINIMUM AND MAXIMUM VALUES WITHIN STATION RANGES SHOWN.
4. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.
5. SEE TRAFFIC CONTROL PLANS FOR BARRIER LOCATIONS AND ANCHOR DETAILS.
6. SEE SPECIAL PROVISION "DETOUR" FOR CONSTRUCTION REQUIREMENTS AND APPROXIMATE QUANTITIES.

LEGEND

- ① COMMERCIAL HMA
- ② CRUSHED SURFACING BASE COURSE
- ③ PLANING BITUMINOUS PAVEMENT



DETOUR SECTION F

STATION	A	B
D-3 34+80.00 TO D-3 35+21.00	14.14' - 20.58'	12.86' - 6.42'

FILE NAME	G:\CONTRACT\9398 - West Jefferson County - Remove Fish Barriers\05 Change Orders\CO-002 Steamboat Detour Bridge\3-Plans & Specs\CO 2 Plans\XL5117_RS_04.dgn		
TIME	9:15:29 AM		
DATE	11/27/2019		
PLOTTED BY	CoresyM		
DESIGNED BY	K. COUNTRYMAN		
ENTERED BY	P. DANA		
CHECKED BY	B. REGISTER		
PROJ. ENGR.	K. MUELLER	CHANGE ORDER #2	11/22/2019 MCC
REGIONAL ADM.	J. WYNANDS	REVISION	DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	17C505	
CONTRACT NO.	XL5117	



US 101 STEAMBOAT CREEK	
US 101 WEST JEFFERSON COUNTY REMOVE FISH BARRIERS	
DETOUR SECTIONS	

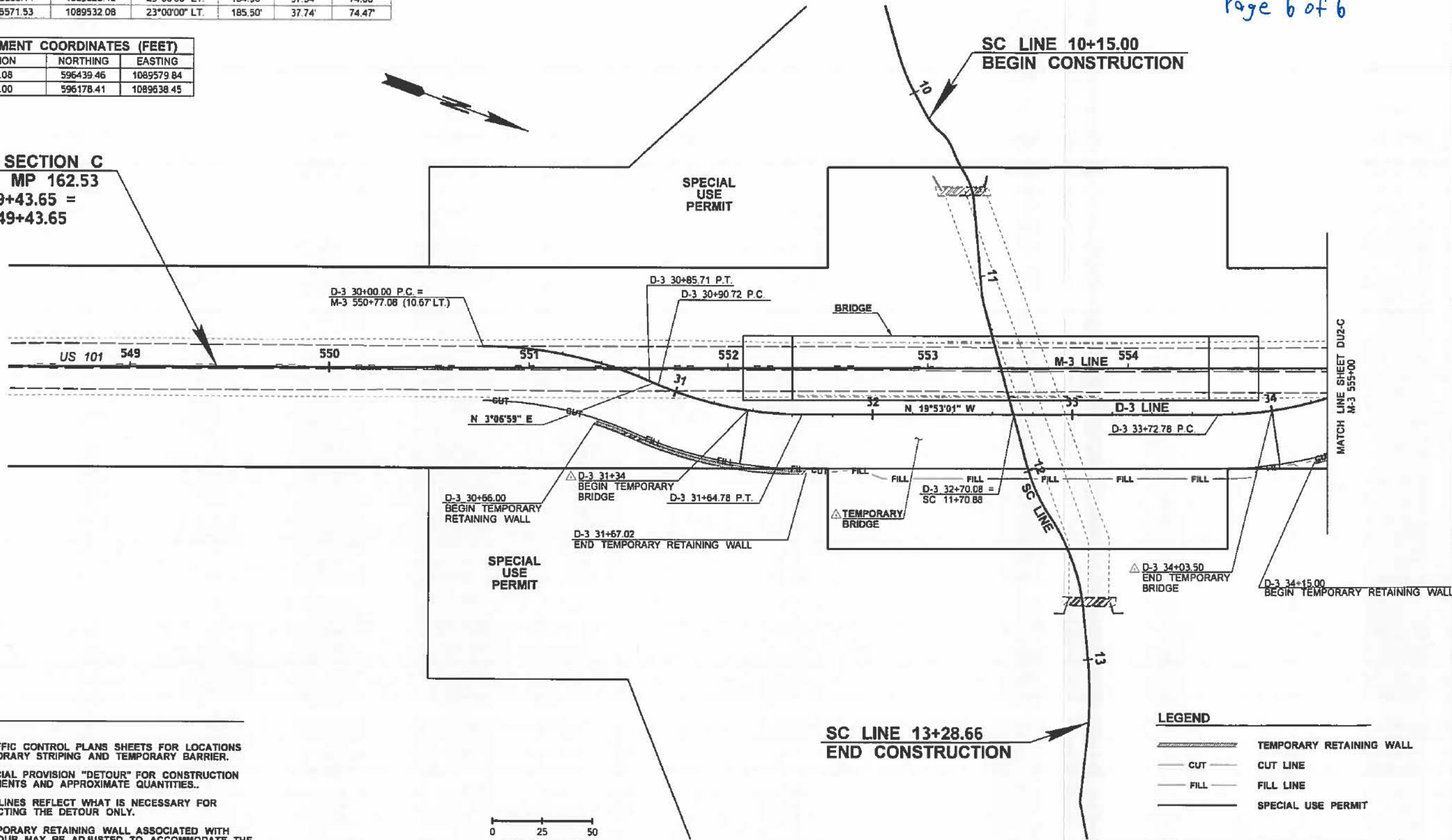
PLAN REF NO	RS4-C
SHEET	154
OF	246
SHEETS	

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CURVE DATA						
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	TANGENT	LENGTH
D-3 30+43.44	596219.29	1089623.75	22°53'44" RT.	214.50'	43.44'	85.72'
D-3 31+28.26	596305.14	1089628.42	23°00'00" LT.	184.50'	37.54'	74.06'
D-3 34+10.52	596571.53	1089532.08	23°00'00" LT.	185.50'	37.74'	74.47'

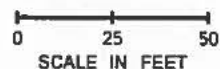
ALIGNMENT COORDINATES (FEET)		
STATION	NORTHING	EASTING
D-3 32+70.08	596439.46	1089579.84
D-3 30+00.00	596178.41	1089638.45

BEGIN SECTION C
US 101 MP 162.53
M-3 549+43.65 =
R/W 549+43.65



NOTES:

- SEE TRAFFIC CONTROL PLANS SHEETS FOR LOCATIONS OF TEMPORARY STRIPING AND TEMPORARY BARRIER.
- SEE SPECIAL PROVISION "DETOUR" FOR CONSTRUCTION REQUIREMENTS AND APPROXIMATE QUANTITIES.
- CUT/FILL LINES REFLECT WHAT IS NECESSARY FOR CONSTRUCTING THE DETOUR ONLY.
- ANY TEMPORARY RETAINING WALL ASSOCIATED WITH THIS DETOUR MAY BE ADJUSTED TO ACCOMMODATE THE CONTRACTOR-DESIGNED DETOUR BRIDGE



LEGEND

- TEMPORARY RETAINING WALL
- CUT LINE
- FILL LINE
- SPECIAL USE PERMIT

FILE NAME	G:\CONTRACT\9398 - West Jefferson County - Remove Fish Barriers\05 Change Orders\CO-002 Steamboat Detour Bridge\3-Plans & Specs\CO 2 Plans\XL5117_PS_DU_01.dgn		
TIME	8:59:24 AM		
DATE	11/27/2019		
PLOTTED BY	CoryM		
DESIGNED BY	K. COUNTRYMAN		
ENTERED BY	P. DANA		
CHECKED BY	B. REGISTER		
PROJ. ENGR.	K. MUELLER	CHANGE ORDER #2	11/22/2019
REGIONAL ADM.	J. WYNANDS	REVISION	DATE BY
REGION	STATE	FED.AID PROJ.NO.	LOCATION NO.
10	WASH		XL5117
JOB NUMBER	17C505		
CONTRACT NO.			



US 101 STEAMBOAT CREEK	
US 101 WEST JEFFERSON COUNTY REMOVE FISH BARRIERS	
DETOUR PLAN	
PLAN REF NO	DU1-C
SHEET	166
OF	246
SHEETS	

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