# WSDOT Transportation Management Plan

# I-5/SB Cowlitz River Bridge – Repair Bridge MP 59.04 to MP 59.22

WIN: D00516T

Work Order: XL5267

PIN: 400516T

This *Transportation Management Plan*, under my direct supervision, has been prepared in accordance with appropriate Washington State Department of Transportation manuals and current design guidelines and procedures.

Bv:

SWR Area Engineer

Southwest Region Concurrence

Bv: P.E. SWR Traffic Engineer

Date: <u>9-21-16</u>

Prepared By: David Wasson

**Project Manager: David Wasson** 

Project Engineer: Devin Reck, P.E.

Project Development Manager: Casey Liles, P.E

Southwest Region Administrator: Kris Strickler, P.E.

Southwest Region Construction Engineer: Chris Tams, P.E.

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P.E.

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### **Executive Summary**

The I-5/SB Cowlitz River Bridge No. 5/203W was identified as a P2 Structure Preservation project by the Washington State Department of Transportation. This project is a result of third party vehicular damage to the bridge.

A Traffic Management Plan (TMP) documents a set of strategies for managing the corridor work zone impacts of a project. A TMP is required on all projects, and is the key element in addressing work zone safety and mobility impacts. The two major components of a TMP are the temporary traffic control and public information plans.

This Transportation Management Plan (TMP) was prepared using the guidance in Chapter 1010 of the Washington State Department of Transportation Design Manual M 22-01.12 November 2015.

## **Project Description**

This P2 Structure Repair project will improve Interstate 5 from MP 59.04 to 59.22 by preserving the structural integrity of the Cowlitz River Bridge No. 5/203W, spanning the Cowlitz River. This structure preservation project will remove lead based paint from the damaged areas to allow for heat straightening of the damaged steel members. The exposed steel will be prepared and repainted after the steel members have been repaired.

The Cowlitz River Bridge No. 5/203W was damaged as a result of a known third party vehicle on July 16, 2015. Specifically, vertical truss member U4L4 of the West Truss in Span 5 received the damage. This project will require heat straightening and repainting of the vertical member. During inspection of the damaged structure damage at two other locations were identified as a result of unknown third party damage. Specifically, a vertical member of the west truss Span 4 and a sway brace on the east truss Span 5. WSDOT HQ Bridge Design Office has recommended the repair be completed as soon as possible. Project advertisement is currently scheduled for Advertisement Dec. 12, 2016.

Interstate 5 is classified with an NHS status. The terrain for location is classified as rolling and its functional classification is Rural Interstate. The posted speed limit is 70 mph and the design speed is 80 mph. There are two lanes in each direction. The Average Daily Traffic Volume, per the 2015 WSDOT Annual Traffic Report, is 43,000 units in the project limits with 36% truck traffic. This project is a P2 Structures Preservation project and does not require a Basis of Design. There are no design variances, evaluate upgrades, or design deviations to consider. Contract working days are estimated at 25 days.

### **TMP Roles and Responsibilities**

#### Area Engineer

The Area Engineer (AE) will work with the Contractor to minimize traffic impacts during construction. All traffic control will be evaluated continuously; adjustments will be made

as needed, to minimize traffic impacts to the extent possible. The AE will ensure that the Communications Office is up to date and informed of current construction and traffic control operations. The AE will work to maintain a positive relationship with the public and will review traffic control measures to ensure that the messages are timely and clear.

#### Communications Office

The Communications Office will provide accurate, timely and consistent information to both the public and the media as necessary. The Communications Office will maintain the project web page, updating it on a regular basis.

### **TMP Monitoring**

As construction proceeds, traffic control and its impact on traffic will be monitored and problems addressed. This process of monitoring and addressing traffic control issues will be ongoing throughout the project. The Contract will allow the AE to make the necessary adjustments to the lane closure and hours of work in order to reduce the impacts to the public.

### **Existing and Future Conditions**

Traffic Counts

Interstate 5 MP 59.04 to 59.22 Estimated Average Daily Traffic (ADT) and Design Hourly Volume (DHV)

Year	2015	2035
AADT	43,000	62,700
DHV	4,945	7,250

Daily Truck Percentage: 36%

### Work Zone Impacts Assessment Report

The I-5/SB Cowlitz River Bridge – Repair Bridge project is expected to impact through traffic on Interstate 5. Work zone impacts will include single lane closures, ramp closures and other temporary traffic control impacts.

The repair of Bridge No. 5/203W requires a single lane closure southbound on Interstate 5. This section of the freeway currently only has two lanes through the project area. All lane closures will be restricted to night time hours to minimize traffic impacts.

The southbound on-ramp at Exit 59 will be closed at night to allow the Contractor to access the west side of the bridge. The ramp will be utilized to stage equipment and supplies for the necessary bridge repair. All southbound ramp traffic will be detoured one mile north to Exit 60 when the ramp closure is in place. Project activities include needed repairs on the east side of the structure. The southbound on-ramp at exit 59 will be closed during the single lane closure to eliminate merging conflicts with ramp traffic. The placement of Class A Signs on the ramp will be in place five days prior to the ramp closure to inform the public of dates and times that the ramp will not be accessible. Signage will be in place during the nightly ramp closures to help direct the public to an alternate freeway access at Exit 60. The ramp closure will be opened and usable for daytime access to the freeway when single lane freeway closures on I-5 have been removed.

### Work Zone Impact Management Strategies

Large highway projects have an impact on businesses and the traveling public. The design team has worked to minimize and mitigate these impacts as much as possible. The mitigation strategies used on this project are described below:

### **Temporary Traffic Control (TTC) Strategies**

Multiple traffic control strategies will be implemented based on the type of work being performed. Typical traffic control plans (TCP) will be used for most of the work. Project-specific TCPs will be used providing a higher level of detail where typical plans do not provide sufficient detail to safely perform work. All TCPs and devices will conform to MUTCD and WSDOT Standards. The traffic control methods planned for use during the project are located in *Appendix A, B and C*.

Lane closures will be performed during permitted times to allow for truck access and work activities to occur in the work zone. The closures can be found under Lane Closure Restrictions that are located in the Contract Special Provisions.

During necessary preparation work and painting, signs and temporary traffic control devices will be used to direct traffic through the work area on the existing I-5 alignment. A single lane closure will be implemented by Traffic Control Labor under the direction of a Traffic Control Supervisor (TCS). The TCS will remain onsite during the closure to ensure that the Traffic Control Plan is functioning as intended. The TCS will also be available in cases of emergency or heavy traffic volume events.

The work-zone will be delineated with traffic control devices that do not provide positive protection of the work force. The placement of concrete barrier is not a viable option due to this section of I-5 only having two lanes. All traffic control established during the nightly

closure will need to be removed by morning. Multiple traffic management strategies will be implemented to help protect the laborers and the traveling public. Traffic management strategies include a posted reduction from 70 mph to 60 mph during the night time closure. Traffic will be evaluated during the closure on the effectiveness of the variable regulatory speed reduction. If necessary, WSDOT will notify Washington State Patrol (WSP) and request for trooper presence during working hours to help slow speeding drivers and improve safety within the work-zone area.

#### Lane Closures

Single Lane Closures will be used on Interstate 5 to provide a suitable work-zone.

#### *Short Duration or Mobile Operation on a Shoulder* This method will be used for installing and maintaining Class A Signs.

#### Lane Closure on a Two-Lane Road Using Flaggers

This method will be used for various work activities on the adjacent side and frontage roads for installing and maintaining Class A Signs.

#### Rolling Slow-downs

This method will be utilized for specific operations requiring a gap is traffic flows necessary for deliveries and/or operations that require no traffic for a short duration.

### **Transportation Operations**

#### Work Hour Restrictions:

To minimize the impact to traffic, the Contract imposes restrictions on closures. Closures are subject to restrictions and are outlined in *Appendix D*.

#### Enforcement:

WSP will be contacted if drivers do not adhere to the temporary speed reduction posted speed limit.

#### Liquidated Damages:

Liquidated Damages will be applied to working days and lane closure durations.

#### Public Information:

No public involvement planned at this time.

#### **Lane Restrictions**

Lane closures are subject to the following restrictions: MP 59.20 to MP 69.44 - One lane each direction shall remain open at all times.

Single Lane Closure The closure of one lane each direction will be allowed during the following times:

From 8:00 PM to 6:00 AM daily, Monday night through Thursday morning From 9:00 PM Thursday night to 6:00 AM Friday morning

The closure of one lane on weekends will be allowed during the following time periods:

From 10:00 PM Friday night to 7:00 AM Saturday morning From 10:00 PM Saturday night to 8:00 AM Sunday morning From 10:00 PM Sunday night to 6:00 AM Monday morning

#### **TMP Implementation Costs**

		Unit		
Bid Item	Unit	Cost	Quantity	Total Cost
Class A Signs	S.F.	10	124	1,240.00
PCMS	HR	20	225	4,500.00
TCS	L.S.			20,250.00
оттс	L.S.			10,000.00
OTCL	HR	54	675	36,450.00
Transportable Attenuator	Each	8000	1	8,000.00
Operation of Transportable				
Attenuator	HR	48	225	10,800.00
Repair Transportable Attenuator	Est.			5,000.00
Sequential Arrow Sign	HR	10	225	2,250.00
Sub Total				98,490.00
Mob 9%				8,864.10
Sales Tax 7.00%				6,894.30
Engineering 15%				14,773.50
Contingencies 4%				3,939.60
Final Costs				\$132,961.50





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DATE	9/22/2016				STPF-0052(214)					TCP1	
PLOTTED BY	wassond								SB COWLITZ RIVER BRIDGE		
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SOWLITZ RIDGE ROAD
ON-RAMP
INTERSTATE 5
EXIT 59
-
HWY 506

NOTES:

- 1. NO FLAGGERS OR SPOTTERS.
- 2. EXTEND DEVICE TAPER AT L/3 (240') ACROSS SHOULDER.
- 3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
- 4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (RECOMMENDED).
- 5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(TAPER IS OPTIONAL)
- 6. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- 7. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 8. MIRROR PLAN FOR EASTERLY LANE CLOSURE.
- 9. SPEED REDUCTION CLASS A SIGNS SHALL BE COVERED DURING NON-WORKING HOURS.
- 10. SIGN SPACING LESS THAN STANDARD DUE TO EXIT 60 ON-RAMP CONSTRAINTS.



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DATE

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REGIONAL ADM. K. STRICKLER

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-COWLITZ LOOP ROAD-⊗- -⊗- • - -∞-∞-- -

570 FT

						Z	APPENDIX B			
				COWLITZ RIVER	RSTATE 5					
LEGE	ND									
þ	CLASS A SIGN									
	CLASS B SIGN									
$\otimes$	TRAFFIC SAFETY DRUM					CHA	ANNELIZATION DEVICE SPACING (feet)			
	SEQUENTIAL ARROW SIGN					MP1	H TAPER TANGEN	T		
	TRANSPORTABLE ATTENUATOR					35/4	5 30 60			
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN									
	EXISTING IMPACT ATTENUATOR			<b></b>						
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REVISION

D. RECK

REGIONAL ADM. K. STRICKLER

Washington State	
Department of Transportatio	n

TRAFFIC CONTROL PLAN

- 10. SIGN SPACING LESS THAN STANDARD DUE TO EXIT 60 ON-RAMP CONSTRAINTS.
- 9. SPEED REDUCTION CLASS A SIGNS SHALL BE COVERED DURING NON-WORKING HOURS.
- 8. MIRROR PLAN FOR EASTERLY LANE CLOSURE.
- 7. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 6. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- 5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (TAPER IS OPTIONAL)
- 4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (RECOMMENDED).
- 3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
- 2. EXTEND DEVICE TAPER AT L/3 (240') ACROSS SHOULDER.
- 1. NO FLAGGERS OR SPOTTERS.

NOTES:



REGIONAL ADM. K. STRICKLER

REVISION

DATE

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	CHANNELIZATION DEVICE SPACING (feet)									
(OPTIONAL	MPH	TAPER	TANGENT							
PH OR LESS)	50/65	10 to 20	80							
	35/45	10 to 20	60							
	25/30	10 to 20	40							

- 1. ALL SIGNS ARE BLACK ON ORANGE
- 2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS
- 3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR
- 4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

		Plot 5
	I-5	PLAN REF NO
,	SB COWLITZ RIVER BRIDGE	TCP2
State ansportation	REPAIR BRIDGE	SHEET 4 OF
	TRAFFIC CONTROL PLAN	7 SHEETS

SIGN SPACING = X (1)				MINII	MUM	SHOUL	DER T	APER	LENG	ΓH = L	_/3 (fee	et)		CHANN	
REEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±												мрн	
RURAL HIGHWAYS	60 / 65 MPH	800' ±	SHOULDER				Pos	ted Sp	eed (n	nph)	-			50/70	40
RURAL ROADS	45 / 55 MPH	500' ±	(feet)	25	30	35	40	45	50	55	60	65	70	35/45	30
1) ALL SPACING MAY BE ADJUSTED	TO ACCOMMODATE	INTERCHANGE	8'	40	40	60	90	120	130	150	160	170	190	L	
RAMPS, AT-GRADE INTERSECT	IONS AND DRIVEWAY	·S	10'	40	60	90	90	150	170	190	200	220	240		
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										APPEN	DIX D				

CHANNELIZATION DEVICE SPACING (feet)									
MPH	TAPER	TANGENT							
50/70	40	80							
35/45	30	60							

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BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH) 25 30 35 40 45 50 55 60 65 55										
LENGTH (feet) 360 425 495									645	730
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
RANSPORTABLE ATTENUATOR INIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL TO 100 FEET MAX										MIN. MAX.

NOTES:

1. NO ENCROACHMENT IN TRAVELLED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.

2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'O.C.

Plot 6 plan ref no

TCP3

SHEET 5 OF 7 SHEETS

3. ALL SIGNS ARE BLACK ON ORANGE.

4. NO FLAGGERS OR SPOTTERS.

TRAFFIC CONTROL PLAN

I-5

SB COWLITZ RIVER BRIDGE

REPAIR BRIDGE

SIGHT DISTANCE DATE MINIMUM STOPPING SIGHT DISTANCE = S SPEED LIMIT 50 70 25 30 35 40 45 55 60 65 (MPH) DISTANCE 155 200 250 305 360 425 495 570 645 730 FEET DISTANCES SHOWN ARE MINIMUMS, USE ADDITIONAL DISTANCE WHEN POSSIBLE.

<u>LEGEND</u>

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APPENDIX E



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		Plot 7
	I-5	PLAN REF NO
	SB COWLITZ RIVER BRIDGE	TCP4
State insportation	REPAIR BRIDGE	SHEET 6 OF
•	TRAFFIC CONTROL PLAN	7 SHEETS

- 4. NO FLAGGERS OR SPOTTERS.
- 2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'O.C.
- 1. NO ENCROACHMENT IN TRAVELLED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.

APPENDIX F

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1. ROLLING SLOWDOWN VEHICLES WILL SLOW TRAFFIC DOWN TO 40 MPH.

2. TRAFFIC SWITCH SHOULD LAST NO MORE 5 MINUTES.

3. 4 MILES DISTANCE AHEAD OF WORK TO START THE ROLLING SLOWDOWN.

4. ALL WORK ACTIVITIES THAT REQUIRE 10,00- GVW OR GREATER TO ENTER OR EXIT THE WORK AREA AND NEED TO DECELERATE/ACCELERATE IN LANE(S) OF TRAFFIC SHALL BE REQUIRED TO USE LANE RESTRICTION AND ASSOCIATED WORK HOURS. TRAFFIC CONTROL VEHICLES ARE EXCLUDED FROM THE GROSS VEHICLE WEIGHT REQUIREMENTS.

5. SEE SPECIAL PROVISIONS; PUBLIC CONVENIENCE AND SAFETY, CONSTRUCTION UNDER TRAFFIC, FOR WORK HOUR RESTRICTIONS.

6. THIS PLAN SHALL OPERATE WITHOUT THE USE OF FLAGGERS OR SPOTTERS.

7. ALL WORK VEHICLES SHALL USE WARNING BEACONS.

		Plot 8
	I-5	PLAN REF NO
,	SB COWLITZ RIVER BRIDGE	TCP5
State ansportation	REPAIR BRIDGE	SHEET 7 OF
•	TRAFFIC CONTROL PLAN	7 SHEETS



- 2. EXISTING SPEED SIGNS SHALL BE COMPLETELY COVERED WHILE SPEED REDUCTION IS IN EFFECT.
- 3. SPEED REDUCTION TO BE UTILIZED SOUTHBOUND MP 58.90 TO MP 60.10 ONLY IN THE ACTIVE WORK ZONES.
- 3. ALL SIGNS ARE BLACK ON WHITE UNLESS DENOTED OTHERWISE.

#### ★ BARRIER MOUNTED SIGN BASE.

FILE NAME	G:\444307\03-Design\Design\I-5	ة/I-5 SB Cowlitz River Bridge _Known Third Party_Rep	alr Bridge\04	TRAF	FIC DESIG	SN DA	\TA\4-8 Traffic Management P	an\Speed Reduction\XL5267-5_P	\$_TC.dgn	
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