

- 1. THIS PLAN IS USED IN CONJUNCTION WITH 2-LANE FREEWAY RIGHT LANE CLOSURE, 4'MAX LEFT SHOULDER SHIFT TRAFFIC CONTROL PLAN (PCMSs REPLACED WITH ONES SHOWN ON THIS PLAN).
- 2. SEE QUEUE WARNING SYSTEM (QWS) SPECIAL PROVISION OR RFP FOR DETAILS.
- 3. MODIFICATIONS TO PCMS MESSAGES SHALL BE ACCEPTED BY THE ENGINEER.
- 4. ADJUST QWS COMPONENTS LOCATION TO AVOID CONFLICTS WITH TRAFFIC CONTROL DEVICES, NARROW SHOULDERS, AND RAMPS. WHEN LOCATED BEHIND BARRIER/GUARDRAIL OR WITHIN LANE CLOSURE, TRANSVERSE TRAFFIC DRUMS OPTIONAL.
- 5. LOCATE PCMSs PER STANDARD SPECIFICATION 1-10.3(3)C. PCMS MAY BE PLACED ON OPPOSITE SHOULDER BUT AVOID RAMP GORES. MINIATURE PCMSs (~6'WIDE, 12+ INCH CHARACTERS) ALLOWED FOR ALL PCMSs
- 6. IF SYSTEM FAILS, SEE "QUEUE WARNING SYSTEM FAILURE PROTOCOL" PROVISION.
- 7. IF TRAFFIC QUEUES REACH 5.5 MILES, PLACE ADDITIONAL PCMS AT 8± MILES. RELOCATE FARTHER BACK AS NEEDED TO REMAIN IN ADVANCE OF QUEUE. TRUCK-MOUNTED PCMS WITH 10+ INCH CHARACTERS ACCEPTABLE. TRANSVERSE TRAFFIC SAFETY DRUMS OPTIONAL. REMOVE PCMS WHEN DISSIPATING QUEUES ARE LESS THAN 5 MILES.

 ADDED PCMS MESSAGE: TRAFFIC BACKUPS PRESENT / SLOW TRAFFIC AHEAD
- 8. "ROADWAY NARROWS 12'WIDE" PCMS MESSAGE MODIFIED TO MATCH THE ACTUAL MINIMUM TRAVEL WIDTH AVAILABLE THROUGH WORK ZONE MEASURED FROM FACE OF DEVICE TO FACE OF OPPOSITE DEVICE TRANSVERSELY.

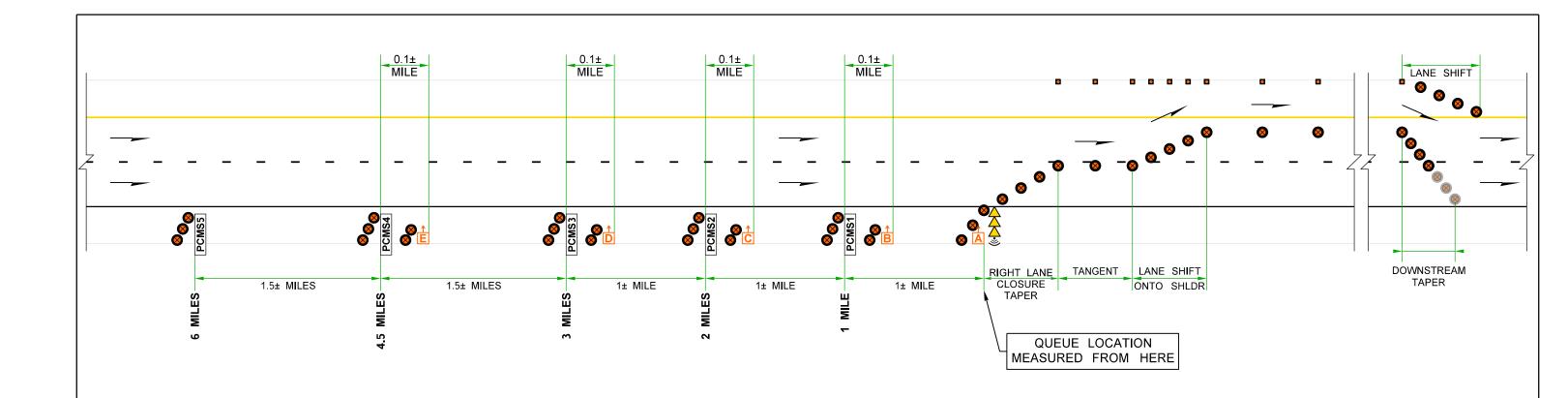
LEGEND:	
•	28" TRAFFIC CONE
•	42" CHANNELIZATION DEVICE (TRAFFIC SAFETY DRUM OK)
8	TRAFFIC SAFETY DRUM
#	TRAFFIC SENSOR
((•)	SMART SEQUENTIAL ARROW SIGN (CONNECTED)
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 5)

SYMBOL	TRIGGER SPEED (mph)	TRAFFIC CONDITION
FF	35+	Free Flow
SL	<35	Slowed

QUEUE LOCATION		FFIC	SI	ENS	ORS	PCM	IS 5	PCN	IS 4	PCM	IS 3	PCN	1S 2	PCN	1 S 1
	Е	D	С	В	Α	1	2	1	2	1	2	1	2	1	2
(miles)	TR	AFFIC	co	NDITI	ON	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
												RIGHT	2	ROADWAY	SHOULDER
None	FF	FF	FF	FF	FF		(Blank)		(Blank)		(Blank)	LANE	MILES	NARROWS	DRIVING
							, , ,		,		, ,	CLOSURE	AHEAD	12' W I DE	AHEAD
										LANE	TRAFFIC	ROADWAY	SHOULDER	SLOW OR	NEXT
0.01 TO 0.9	FF	FF	FF	FF	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	NARROWS	DRIVIVING	STOPPED	1
										3 MILES	PRESENT	12' WIDE	2 MILES	TRAFFIC	MILE
										LANE	TRAFFIC	SLOW OR	NEXT	ZIPPER	ROADWAY
0.91 TO 1.9	FF	FF	FF	SL	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	STOPPED	2	MERGE	NARROWS
										3 MILES	PRESENT	TRAFFIC	MILES	1 MILE	12' WIDE
								LANE	TRAFFIC	SLOW OR	NEXT	2 MILES	USE	ZIPPER	ROADWAY
1.91 TO 2.9	FF	FF	SL	SL	SL		(Blank)	CLOSURE	BACKUPS	STOPPED	3	TO MERGE	ALL	MERGE	NARROWS
								4.5 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	1 MILE	12' WIDE
						LANE	TRAFFIC	SLOW OR	NEXT	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
2.91 TO 4.4	FF	SL	SL	SL	SL	CLOSURE	BACKUPS	STOPPED	4.5	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
						6 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	POINT	LANES	1 MILE	12' WIDE
						SLOW OR	NEXT	LANE	USE	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
4.41+	SL	SL	SL	SL	SL	STOPPED	6	CLOSURE	ALL	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
						TRAFFIC	MILES	4.5 MILES	LANES	POINT	LANES	POINT	LANES	1 MILE	12' WIDE

6-MILE QUEUE WARNING SYSTEM FREEWAY (2 LANES): SINGLE RIGHT LANE CLOSURE, 4' MAX LEFT SHOULDER SHIFT

								NOT TO SCALE			
FILE NAME	C:\Users\LintzF\OneDrive - Wa	shington State Department of Transportation\Desktop	Work Zone TC	Ps\157	Fwy6Mlle0	WS1RtLeftShldrShlft.dgn					Plot 1
TIME	1:13:30 PM				REGION S NO.	FED.AID PROJ.NO.					PLAN REF NO
DATE	1/5/2024				10 W	ASH					TC157
PLOTTED BY	LintzF				10 8	-311					1
DESIGNED BY					JOB NUMB	ER .			Washington State		CHEET
ENTERED BY									_		1 1
CHECKED BY					CONTRACT	NO. LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.							DATE	DATE	_	TYPICAL TRAFFIC CONTROL PLANS	2 SHEETS
REGIONAL ADM.		REVISION	DATE	BY			P.E. STAMP BOX	P.E. STAMP BOX			SHEETS



- 1. THIS PLAN IS USED IN CONJUNCTION WITH 2-LANE FREEWAY RIGHT LANE CLOSURE, 9 MAX LEFT SHOULDER SHIFT TRAFFIC CONTROL PLAN (PCMSs REPLACED WITH ONES SHOWN ON THIS PLAN).
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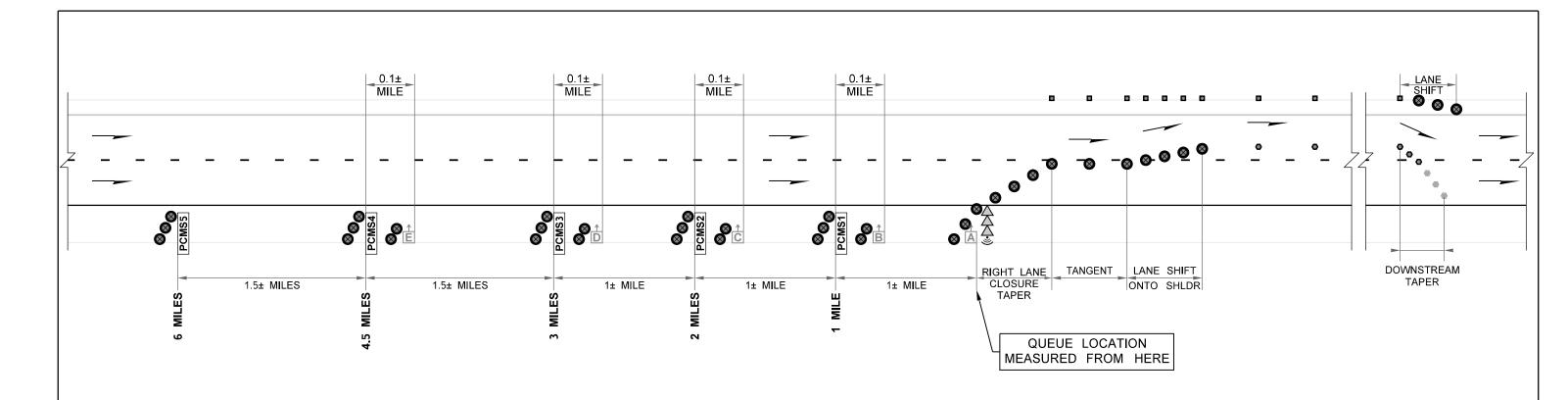
LEGEND:	
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PCMS	PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 5)

SYMBOL	TRIGGER SPEED (mph)	TRAFFIC CONDITION
FF	35+	Free Flow
SL	<35	Slowed

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QUEUE		TRA	FFIC	SE	ENS	ORS	PCM	IS 5	PCN	IS 4	PCM	IS 3	PCN	IS 2	PCN	IS 1
	ואוי	Е	D	С	В	Α	1	2	1	2	1	2	1	2	1	2
(miles)		TR	AFFIC	CO	NDITI	ON	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
													RIGHT	2	ROADWAY	SHOULDER
None		FF	FF	FF	FF	FF		(Blank)		(Blank)		(Blank)	LANE	MILES	NARROWS	DRIVING
							-						CLOSURE	AHEAD	12' WIDE	AHEAD
											LANE	TRAFFIC	ROADWAY	SHOULDER	SLOW OR	NEXT
0.01 TO 0).9	FF	FF	FF	FF	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	NARROWS	DRIVIVING	STOPPED	1
											3 MILES	PRESENT	12' WIDE	2 MILES	TRAFFIC	MILE
											LANE	TRAFFIC	SLOW OR	NEXT	ZIPPER	ROADWAY
0.91 TO 1	1.9	FF	FF	FF	SL	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	STOPPED	2	MERGE	NARROWS
									-		3 MILES	PRESENT	TRAFFIC	MILES	1 MILE	12' WIDE
									LANE	TRAFFIC	SLOW OR	NEXT	2 MILES	USE	ZIPPER	ROADWAY
1.91 TO 2	2.9	FF	FF	SL	SL	SL		(Blank)	CLOSURE	BACKUPS	STOPPED	3	TO MERGE	ALL	MERGE	NARROWS
									4.5 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	1 MILE	12' WIDE
							LANE	TRAFFIC	SLOW OR	NEXT	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
2.91 TO 4	1.4	FF	SL	SL	SL	SL	CLOSURE	BACKUPS	STOPPED	4.5	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
							6 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	POINT	LANES	1 MILE	12' WIDE
							SLOW OR	NEXT	LANE	USE	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
4.41+		SL	SL	SL	SL	SL	STOPPED	6	CLOSURE	ALL	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
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						NOT TO SCALE			
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			CONTRACT NO.	LOCATION NO.			Department of Transportation		OF OF
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	REVISION	DATE	BY		P.E. STAMP BOX	P.E. STAMP BOX			SILLIS
	1:13:30 PM 1/5/2024	1:13:30 PM 1/5/2024 LintzF	1:13:30 PM 1/5/2024 LintzF	1:13:30 PM REGION STATE 1/5/2024 LintzF 10 WASH JOB NUMBER CONTRACT NO.	1/5/2024 LintzF 10 WASH JOB NUMBER CONTRACT NO. LOCATION NO.	1:13:30 PM	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\157Fwy6MileQWS1RtLeftShidrShift.dgn	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\157Fwy6MileQWS1RtLeftShldr.dgn 1:13:30 PM 1:15/2024 LintzF 10 WASH LintzF CONTRACT NO, LOCATION NO. DATE DATE	1:13:30 PM 1/5/2024 LintzF 10 WASH JOB NUMBER CONTRCT NO. LOCATION NO. DATE TYPICAL TRAFFIC CONTROL PLANS



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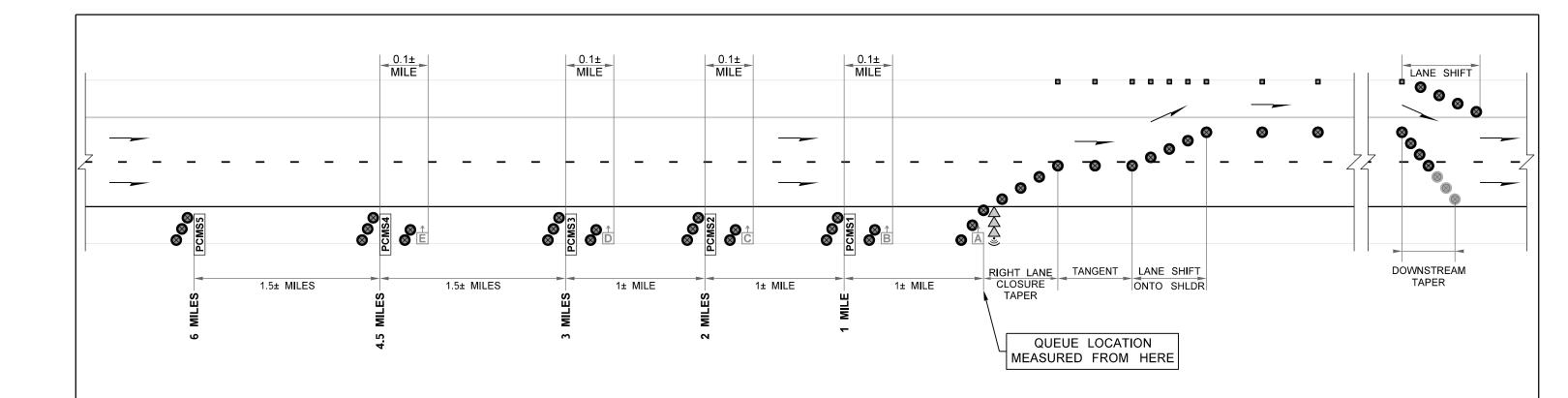
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		<u> </u>		<u> </u>	3101	wcu										
QUEUE LOCATIO	- 1	TRA	FFIC	SE	ENS	ORS	PCM	IS 5	PCN	IS 4	PCM	IS 3	PCN	IS 2	PCN	IS 1
	ווי רוי	Е	D	С	В	Α	1	2	1	2	1	2	1	2	1	2
(miles)		TR	AFFIC	CO	NDITI	ON	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
	П												RIGHT	2	ROADWAY	SHOULDER
None		FF	FF	FF	FF	FF		(Blank)		(Blank)		(Blank)	LANE	MILES	NARROWS	DRIVING
							-		-		-		CLOSURE	AHEAD	12' WIDE	AHEAD
											LANE	TRAFFIC	ROADWAY	SHOULDER	SLOW OR	NEXT
0.01 TO 0).9	FF	FF	FF	FF	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	NARROWS	DRIVIVING	STOPPED	1
											3 MILES	PRESENT	12' WIDE	2 MILES	TRAFFIC	MILE
											LANE	TRAFFIC	SLOW OR	NEXT	ZIPPER	ROADWAY
0.91 TO 1	1.9	FF	FF	FF	SL	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	STOPPED	2	MERGE	NARROWS
							-		-		3 MILES	PRESENT	TRAFFIC	MILES	1 MILE	12' WIDE
									LANE	TRAFFIC	SLOW OR	NEXT	2 MILES	USE	ZIPPER	ROADWAY
1.91 TO 2	2.9	FF	FF	SL	SL	SL		(Blank)	CLOSURE	BACKUPS	STOPPED	3	TO MERGE	ALL	MERGE	NARROWS
							-		4.5 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	1 MILE	12' WIDE
							LANE	TRAFFIC	SLOW OR	NEXT	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
2.91 TO 4	1.4	FF	SL	SL	SL	SL	CLOSURE	BACKUPS	STOPPED	4.5	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
							6 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	POINT	LANES	1 MILE	12' WIDE
							SLOW OR	NEXT	LANE	USE	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
4.41+		SL	SL	SL	SL	SL	STOPPED	6	CLOSURE	ALL	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
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6-MILE QUEUE WARNING SYSTEM FREEWAY (2 LANES): SINGLE RIGHT LANE CLOSURE, 4' MAX LEFT SHOULDER SHIFT

								-	NOT TO SCALE			
FILE NAME	C:\Users\LintzF\OneDrive - V	VashIngton State Department of Transportation\Desktop\\	Vork Zone TCF	Ps\157F	Fwy6Mlle	QWS1RtLeft	ftShldrShlft.dgn					Plot 1
TIME	1:13:31 PM				REGION S	FE FE	ED.AID PROJ.NO.					PLAN REF NO
DATE	1/5/2024			I 1	10 W	A C L						TC157
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CHECKED BY					CONTRACT	NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.								DATE	DATE	-	TYPICAL TRAFFIC CONTROL PLANS	2 SHEETS
REGIONAL ADM		REVISION	DATE	BY				P.E. STAMP BOX	P.E. STAMP BOX			SHEETS



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LEGEND:	
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8	TRAFFIC SAFETY DRUM
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PCMS	PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 5)

SYMBOL	TRIGGER SPEED (mph)	TRAFFIC CONDITION			
FF	35+	Free Flow			
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			133		wcu										
QUEUE LOCATION	ION TRAITIO DENOCIO		PCM	IS 5	PCN	IS 4	PCMS 3		PCMS 2		PCMS 1				
	E	D	С	В	Α	1	2	1	2	1	2	1	2	1	2
(miles)	TF	TRAFFIC CONDITION			2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	
	1											RIGHT	2	ROADWAY	SHOULDER
None	FF	FF	FF	FF	FF		(Blank)		(Blank)		(Blank)	LANE	MILES	NARROWS	DRIVING
							, ´ ´		, ,		. ,	CLOSURE	AHEAD	12' W I DE	AHEAD
	1									LANE	TRAFFIC	ROADWAY	SHOULDER	SLOW OR	NEXT
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0.91 TO 1.9) FF	FF	FF	SL	SL		(Blank)		(Blank)	CLOSURE	BACKUPS	STOPPED	2	MERGE	NARROWS
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2.91 TO 4.4	⊦ FF	SL	SL	SL	SL	CLOSURE	BACKUPS	STOPPED	4.5	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
						6 MILES	PRESENT	TRAFFIC	MILES	POINT	LANES	POINT	LANES	1 MILE	12' WIDE
						SLOW OR	NEXT	LANE	USE	3 MILES	USE	2 MILES	USE	ZIPPER	ROADWAY
4.41+	SL	SL	SL	SL	SL	STOPPED	6	CLOSURE	ALL	TO MERGE	ALL	TO MERGE	ALL	MERGE	NARROWS
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6-MILE QUEUE WARNING SYSTEM FREEWAY (2 LANES): SINGLE RIGHT LANE CLOSURE, 9' MAX LEFT SHOULDER SHIFT

									NOT TO SCALE			
FILE NAME	C:\Users\LintzF\OneDrive - W	ashIngton State Department of Transportation\Desktop	Work Zone TC	CPs\157	Fwy6Mll	leQWS1	RtLeftShldrShlft.dgn					Plot 2
TIME	1:13:31 PM				REGION NO.	STATE	FED.AID PROJ.NO.					PLAN REF NO
DATE	1/5/2024				10	WASH						TC157
	LintzF											10101
DESIGNED BY					JOB NU	UMBER				Washington State		SHEET
ENTERED BY										_		2
CHECKED BY					CONTRA	ACT NO.	LOCATION NO.			Department of Transportation		OF OF
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REGIONAL ADM.		REVISION	DATE	BY				P.E. STAMP BOX	P.E. STAMP BOX			SILETO

WORK ZONE MICROSTATION CELLS: Updated work zone cells incorporated (January 2024).	DESIGNER NOTES:
WSDOT CAE automatically updates cell libraries on WSDOT and on-site consultant staff computers (no action needed); however, external users or off-site consultants must manually install them. For additional information email HQCAEHelpDesk@wsdot.wa.gov.	A. Region Transportation Operations will determine if and what queue mitigation system is needed using work zone traffic analysis (Traffic Manual 5-9). For additional information, see Traffic Manual 5-17 or Work Zone Traffic Control Fundamentals presentation.
Division 4 in WSDOT Plans Preparation Manual, Section 400.06(29), provides updated work zone cell library policy and information for PS&Es. See https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/manuals/plans-preparation-manual	B. These typical traffic control plans may be modified for site-specific situations and/or WSDOT Region Transportation Operations standard practices. Typical Traffic Control Plans are not "Standard Plans".
TYPICAL TCP USAGE EXPLANATION:	C. When used, include the following Queue Warning System General Special Provisions listed below: 1-10.3(3).OPT4.FR1 Specifications
Plot 1: Supplements Typical Traffic Control Plans TC236 and TC256 when 6-mile Queue Warning System utilized on 2-Lane Freeways.	1-10.5(3).OF14.1 R1 Specifications 1-10.4(2).OPT7.GR1 Measurement (Traffic Control as Bid Items) 1-10.5(2).OPT4.GR1 Payment
Plot 2: Supplements Typical Traffic Control Plans TC238 and TC258 when 6-mile Queue Warning System utilized on 2-Lane Freeways.	D. If traffic queues regularly exceed 6 miles, this plan can be modified into a 8-mile or 9-mile queue warning system without needing additional PCMSs or
	traffic sensors. Contact State Work Zone Engineers for guidance at HQWorkZone@wsdot.wa.gov.
	E. Except for projects requiring them in the Provisions, Pan-Tilt-Cameras (PTZ Cameras) are optional and may be mounted on various PCMSs as desired. PTZ Cameras are used remotely by Agency to monitor incidents and queues.
6-MILE OLIEUE V	VARNING SYSTEM
	ANE CLOSURE, LEFT SHOULDER SHIFT
	Dlot
	INFORMATIONAL USE ONLY
	DO NOT INCLUDE THIS SHEET IN
	CONTRACT PS&Es or TCP SUBMITTALs.
	DESIGNER GUIDANCE