

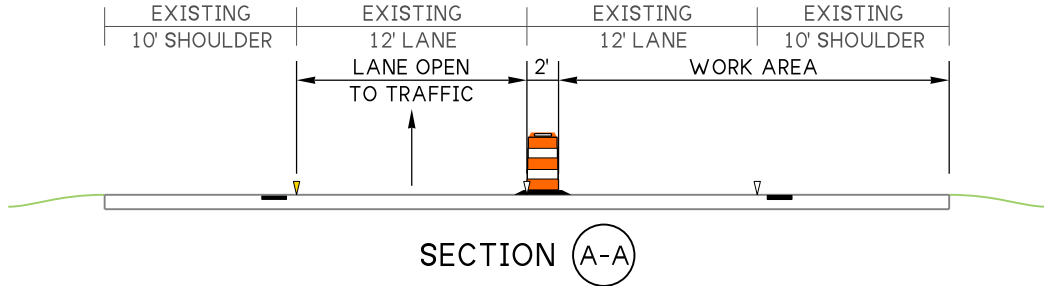
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3-MILE QUEUE WARNING SYSTEM MESSAGES					
TRAFFIC SENSORS		PCMS 2		PCMS 1	
B	A	1	2	1	2
TRIGGER SPEED		2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
35+ MPH	35+ MPH	■	(Blank)	RIGHT LANE CLOSURE	50 MPH ZONE AHEAD
35+ MPH	< 35 MPH	LANE CLOSURE 3 MILES	TRAFFIC BACKUPS PRESENT	SLOW OR STOPPED TRAFFIC	NEXT 1.5 MILES
< 35 MPH	< 35 MPH	SLOW OR STOPPED TRAFFIC	NEXT 3 MILES	USE ALL LANES	TAKE TURNS AT MERGE

LOCATE PCMSs PER STD. SPEC 2-04.3(6)C. PCMS AND TRAFFIC SENSORS MAY BE ADJUSTED AND/OR MOVED TO OPPOSITE SHOULDER TO AVOID CONFLICTS WITH TRAFFIC CONTROL DEVICES, NARROW SHOULDERS, RAMP, OR TO MAINTAIN VISIBILITY OF SEQUENTIAL ARROW SIGN.

WHEN PCMS OR TRAFFIC SENSOR PLACED BEHIND BARRIER/GUARDRAIL OR WITHIN CLOSED LANE, TRANSVERSE TRAFFIC DRUMS ARE NOT REQUIRED.

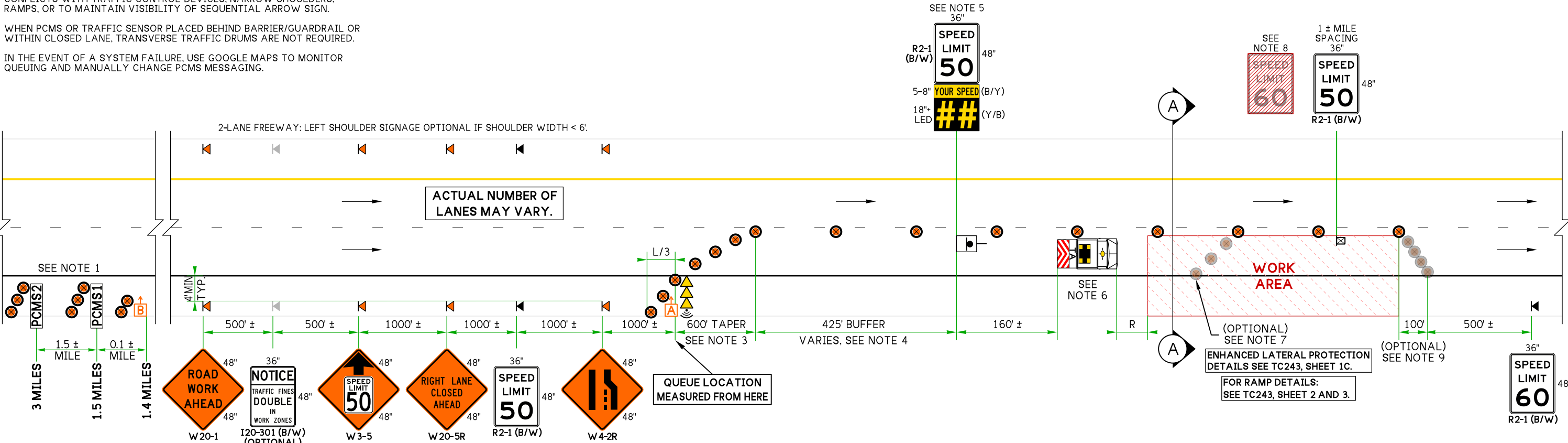
IN THE EVENT OF A SYSTEM FAILURE, USE GOOGLE MAPS TO MONITOR QUEUING AND MANUALLY CHANGE PCMS MESSAGING.



SHOULDER CLOSURE TAPER LENGTH = L/3	
SHOULDER WIDTH	L/3
< 6'	80'
6'	120'
10'	200'

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R	
HOST VEHICLE WEIGHT LESS THAN 22,000 lbs.	HOST VEHICLE WEIGHT 22,000+ lbs.
123'	100'

MAXIMUM CHANNELIZING DEVICE SPACING		
MPH	TAPER	TANGENT
50	40'	80'



NOTES:

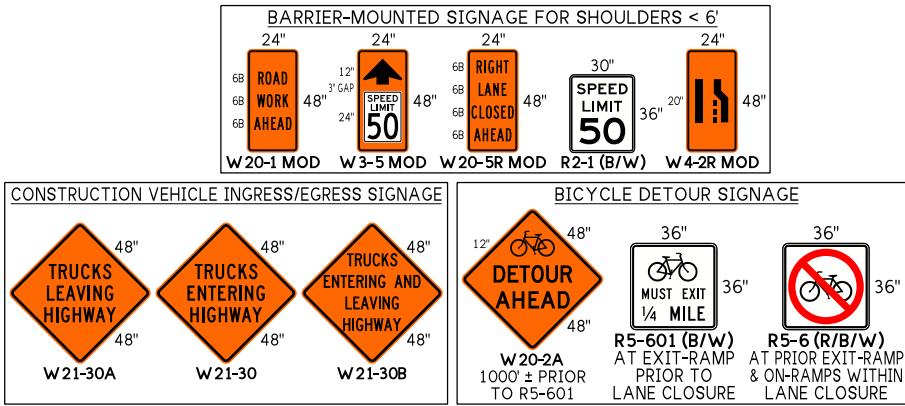
- miniPCMS PERMITTED ON 2-LANE FREEWAYS. ON 3+ LANE FREEWAYS USE PCMS.
- BARRIER-MOUNTED 24"x48" SIGNAGE MAY BE USED WHERE PAVED SHOULDERS < 6'.
- IF FEASIBLE, AVOID PLACING LANE CLOSURE OR LANE SHIFT TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL CURVES.
- BUFFER DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
- EXISTING BLACK/WHITE "YOUR SPEED" PLAQUES MAY STILL BE USED. RELOCATE RSDS AS WORK AREA MOVES DOWNSTREAM. IF ENGINEER ACCEPTS, ADDITIONAL RSDS MAY BE ADDED PRIOR TO EACH WORK CREW.
- RED/WHITE OR BLACK/YELLOW CHEVRON PATTERN OK. ADDITIONAL TRANSPORTABLE ATTENUATORS MAY BE ADDED BEHIND EACH WORK CREW.

- IF USED, PLACE DEVICES TRANSVERSELY ACROSS CLOSED LANES AT 45° ± AND 5' SPACING AT STRATEGIC LOCATIONS.
- COVER ALL CONFLICTING SIGNAGE WITH BLACK 1/8" ABS OR 1/4" PLYWOOD TEMP. SIGN COVER PER STD. SPEC 2-04.3(6)A.
- IF USED, DOWNSTREAM TAPER DEVICE SPACING IS 20'.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- PLAN IS APPLICABLE TO LANE CLOSURES OF 7 DAYS OR LESS.
- NOTIFY PUBLIC OF SPEED REDUCTION 3+ DAYS IN ADVANCE VIA PCMS: 50 MPH WZ SPEED LIMIT / BEGINS DAY OF WEEK MM/DD/YY @ 2.0 SEC.
- ADD W21-30-SERIES SIGNS (5' HEIGHT) 500' ± PRIOR TO FREQUENT CONSTRUCTION VEHICLES INGRESS/EGRESS INTO THE OPEN LANE(S). CHANNELIZING DEVICE SPACING MAY BE 120' AT INGRESS/EGRESS.

- BICYCLIST ACCOMMODATIONS, WHERE FACILITY OPEN TO BICYCLES:
(A) BICYCLES PROHIBITED VIA W20-2A, R5-601 & R5-6 SIGNS. PROVIDE SIGNED DETOUR OR PHAMPLETS IN A WATER-PROOF, TRANSPARENT HOLDER WITH LAMINATED QR CODE.
(B) BICYCLES PROHIBITED VIA R5-601 & R5-6 SIGNS. PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS OK) + CONTACT INFORMATION OR PHONE BOX.
(C) ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES.

LEGEND:	
	TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
	TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
	TRAFFIC SAFETY DRUM
	TRAFFIC SPEED SENSOR
	RADAR SPEED DISPLAY SIGN (RSDS)
	CONNECTED SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR (TL-3)
	PCMS/mPCMS (SEE NOTE 1)

FREEWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE + 3-MILE QWS
(50 MPH WORK ZONE SPEED LIMIT)
NOT TO SCALE



FILE NAME	243_1B_Fwy1RtLane60to50WZSL.dgn	REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.	
TIME	10:46:23 AM						
DATE	20-NOV-2025						
PLOTTED BY	LintzF						
DESIGNED BY							
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.							
REVISION		DATE		BY			



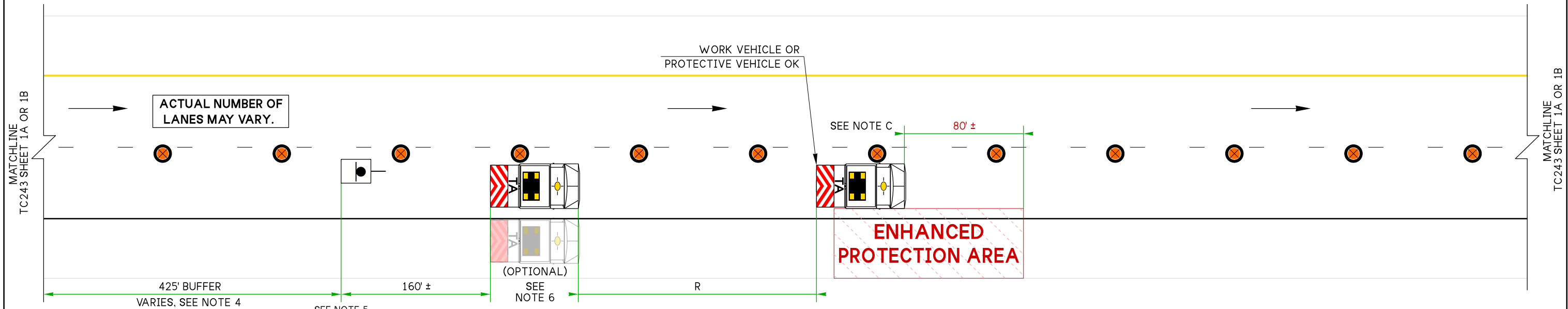
PRELIMINARY PLAN

SEE
CERTIFICATION SHEET
DATE
STAMP BOX

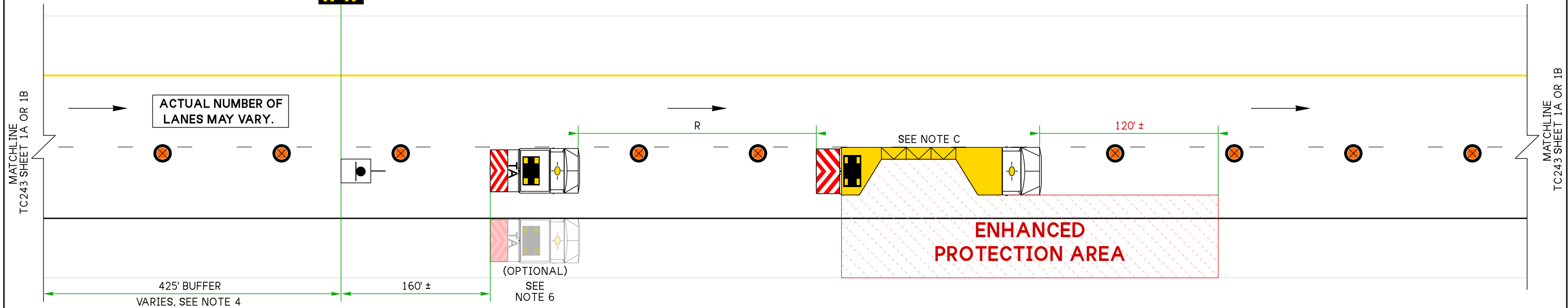
SEE
CERTIFICATION SHEET
DATE
STAMP BOX

TYPICAL TRAFFIC CONTROL PLANS

PLAN REF NO
TC243
SHEET
1B
OF
3
SHEETS



ENHANCED LATERAL PROTECTION VIA TRANSPORTABLE ATTENUATOR

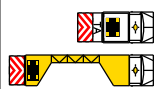


ENHANCED LATERAL PROTECTION VIA MOBILE BARRIER TRAILER SYSTEM

NOTES:

- A. FOR ADDITIONAL LEGEND, TABLES, AND NOTES: SEE TC243, SHEET 1A OR 1B.
- B. WITH ENGINEER ACCEPTANCE, MULTIPLE ENHANCED LATERAL PROTECTION AREAS MAY BE USED THROUGHOUT THE LANE CLOSURE LIMITS.
- C. PARKING BRAKE TO BE ENGAGED AND WHEELS FACING STRAIGHT (DO NOT TURN THEM).

LEGEND:



TRANSPORTABLE ATTENUATOR (TL-3)

MOBILE BARRIER TRAILER SYSTEM (TL-3)

FREEWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE (50 MPH WORK ZONE SPEED LIMIT)

NOT TO SCALE

FILE NAME 243_1C_Fwy1RtLane60to50WZSL.dgn				REGION NO.	STATE	FED. AID PROJ. NO.	<div> PRELIMINARY PLAN</div>	<div>SEE CERTIFICATION SHEET DATE</div> <div>STAMP BOX</div>	<div>SEE CERTIFICATION SHEET DATE</div> <div>STAMP BOX</div>	TYPICAL TRAFFIC CONTROL PLANS	PLAN REF NO.
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DATE 20-NOV-2025											
PLOTTED BY LintzF											
DESIGNED BY											
ENTERED BY											
CHECKED BY			CONTRACT NO.	LOCATION NO.		SHEET 1C OF 3 SHEETS					
PROJ. ENGR.											
REGIONAL ADM.	REVISION	DATE		BY							

15. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC243, SHEET 1A OR 1B.

16. SEE DETOUR PLAN FOR ADDITIONAL RAMP CLOSURE DETOUR SIGNAGE.

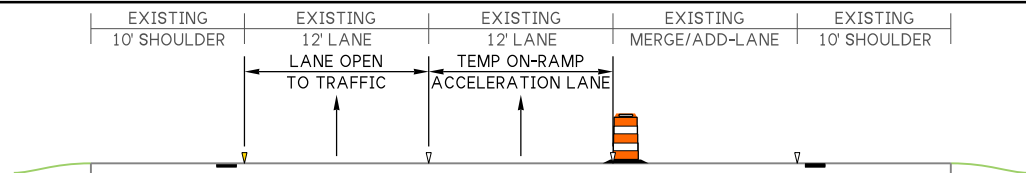


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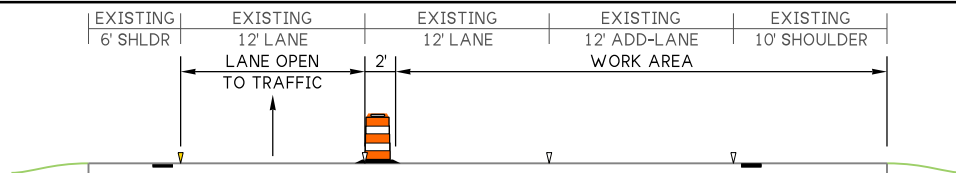
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DATE20-NOV-2025				JOB NUMBER							SHEET 2A OF 3 SHEETS
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DESIGNED BY											
ENTERED BY				CONTRACT NO.	LOCATION NO.						
CHECKED BY											
PROJ. ENGR.											
REGIONAL ADM.	REVISION	DATE	BY								

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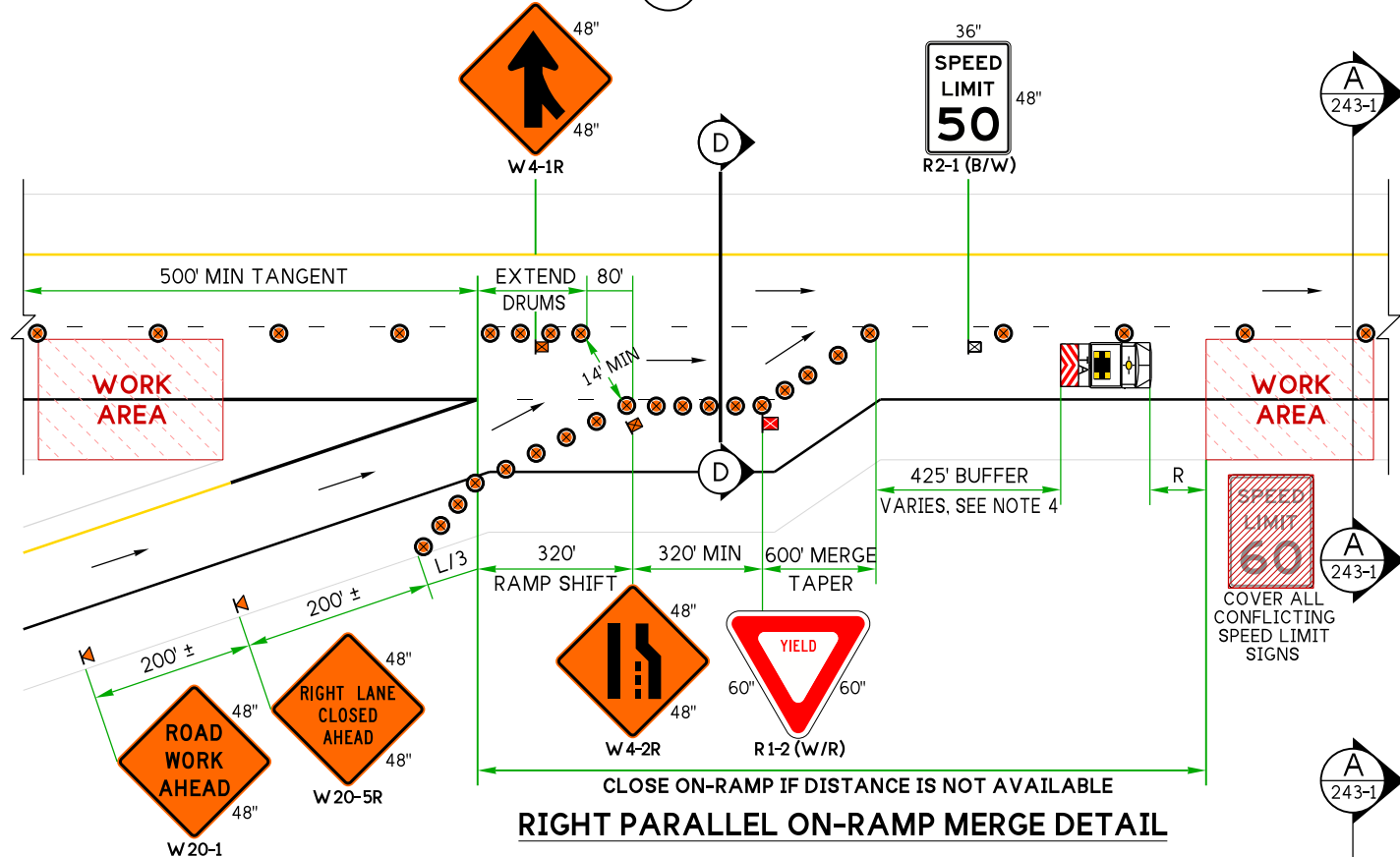
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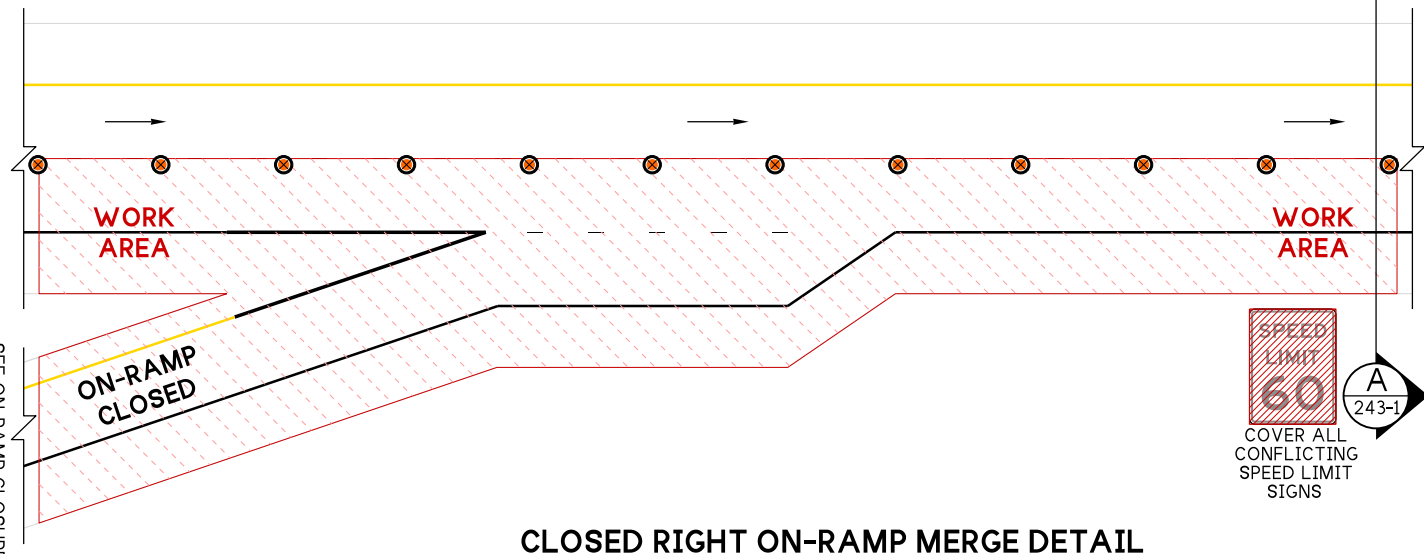
- NOTES:
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16. SEE DETOUR PLAN FOR ADDITIONAL RAMP CLOSURE DETOUR SIGNAGE.



SECTION D-D

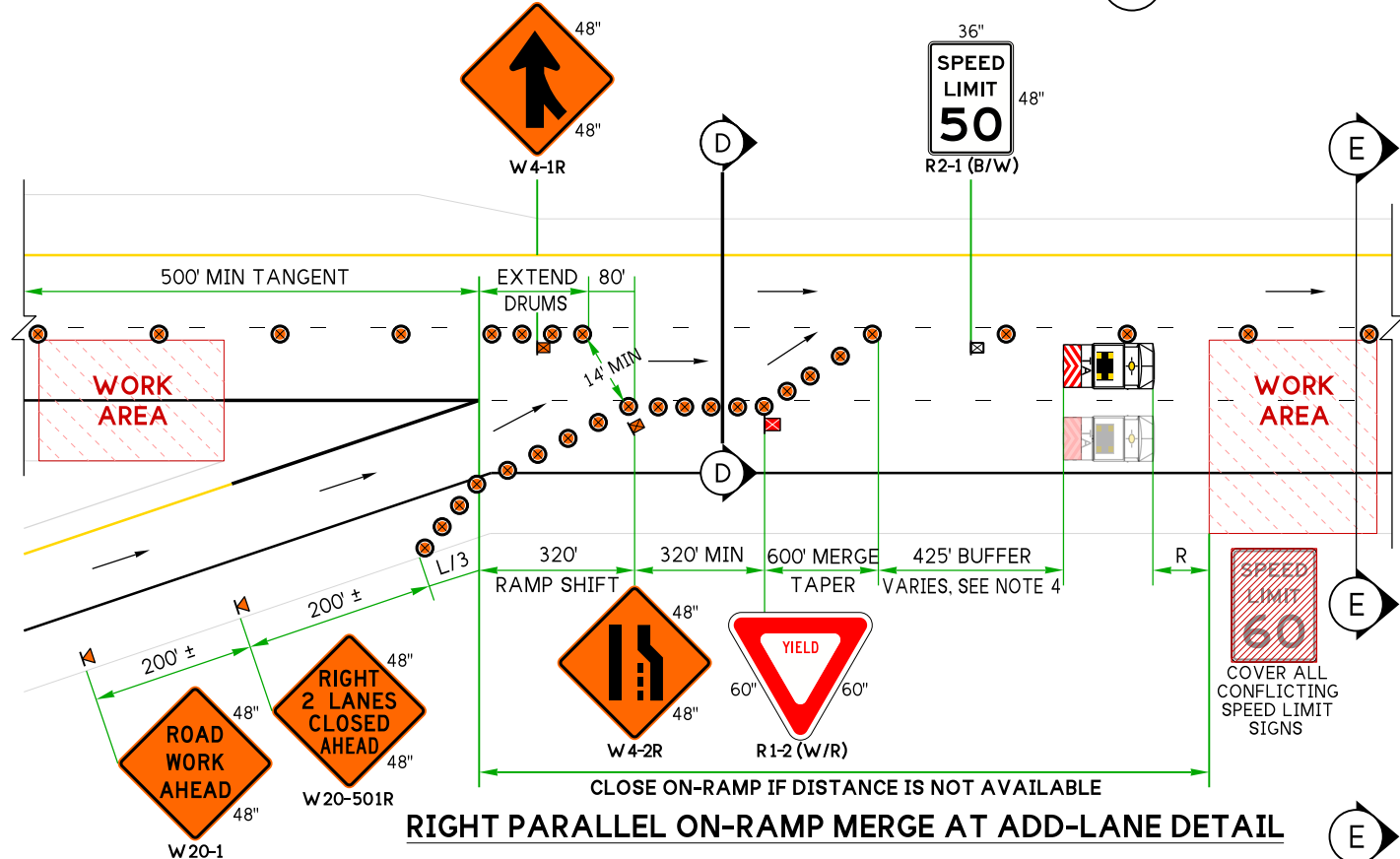


RIGHT PARALLEL ON-RAMP MERGE DETAIL

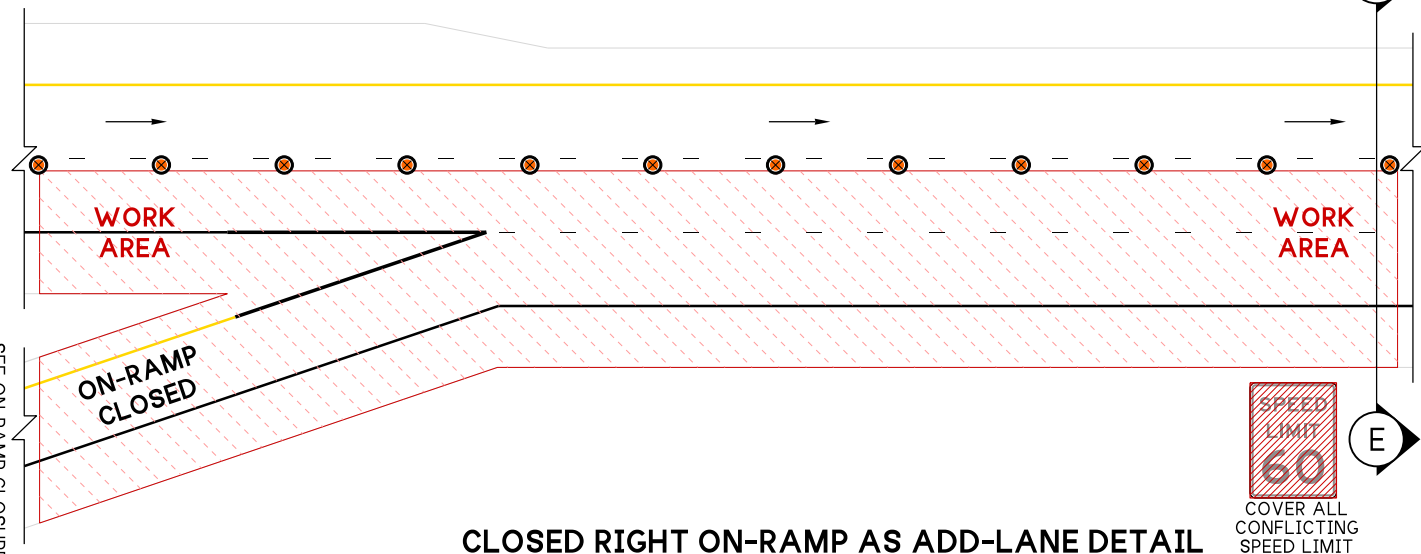


CLOSED RIGHT ON-RAMP MERGE DETAIL

SECTION E-E



RIGHT PARALLEL ON-RAMP MERGE AT ADD-LANE DETAIL



CLOSED RIGHT ON-RAMP AS ADD-LANE DETAIL

FREWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE (50 MPH WORK ZONE SPEED LIMIT)
NOT TO SCALE

FILE NAME	243_2B_Fwy1RtLane60to50WZSL.dgn	REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.		PLAN REF NO.	TC243
TIME	10:46:23 AM								
DATE	20-NOV-2025								
PLOTTED BY	LintzF								
DESIGNED BY									
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PROJ. ENGR.									
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REVISION									
DATE									
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PRELIMINARY PLAN

SEE CERTIFICATION SHEET DATE

STAMP BOX

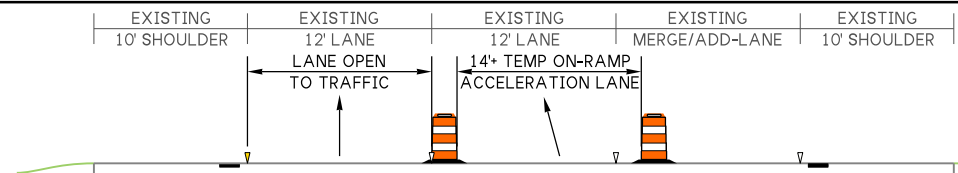
SEE CERTIFICATION SHEET DATE

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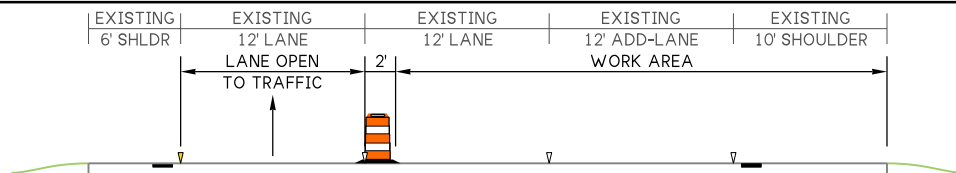
TYPICAL TRAFFIC CONTROL PLANS

SHEET 2B OF 3 SHEETS

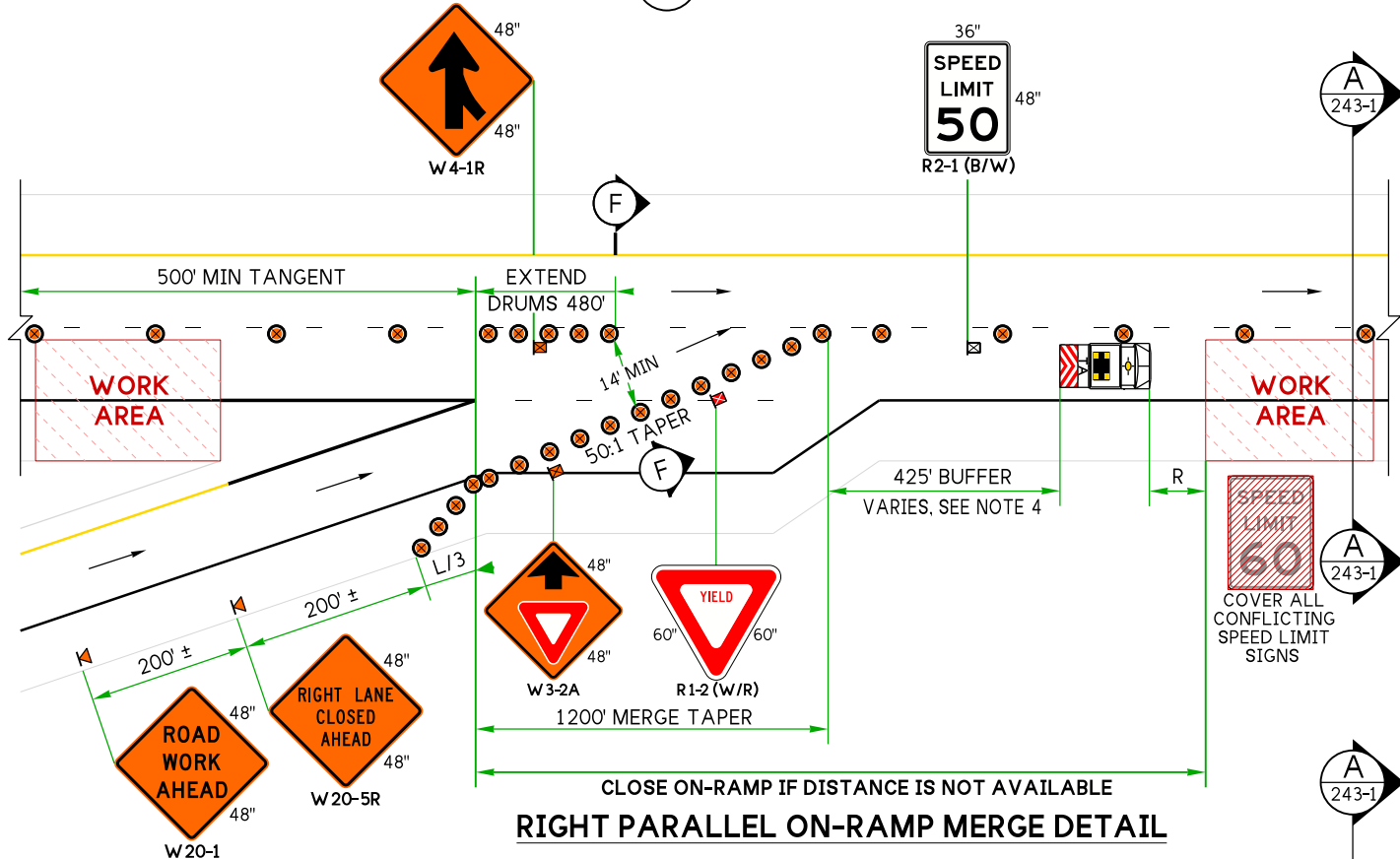
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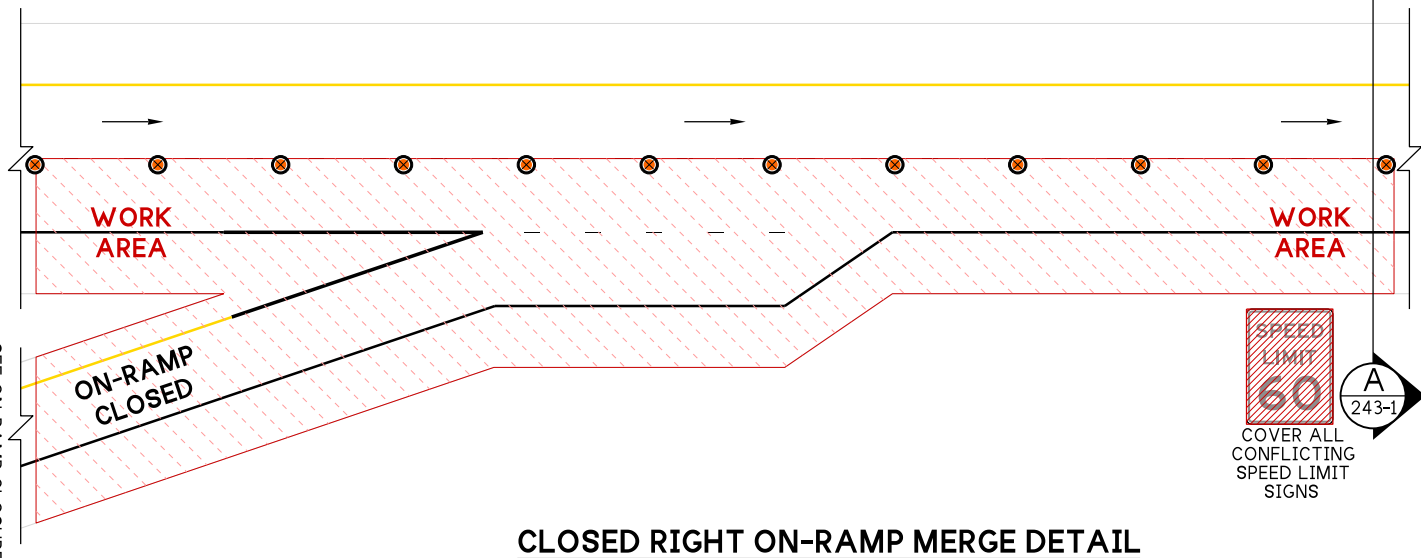
- NOTES:**
- 15. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC243, SHEET 1A OR 1B.
 - 16. SEE DETOUR PLAN FOR ADDITIONAL RAMP CLOSURE DETOUR SIGNAGE.



SECTION (F-F)

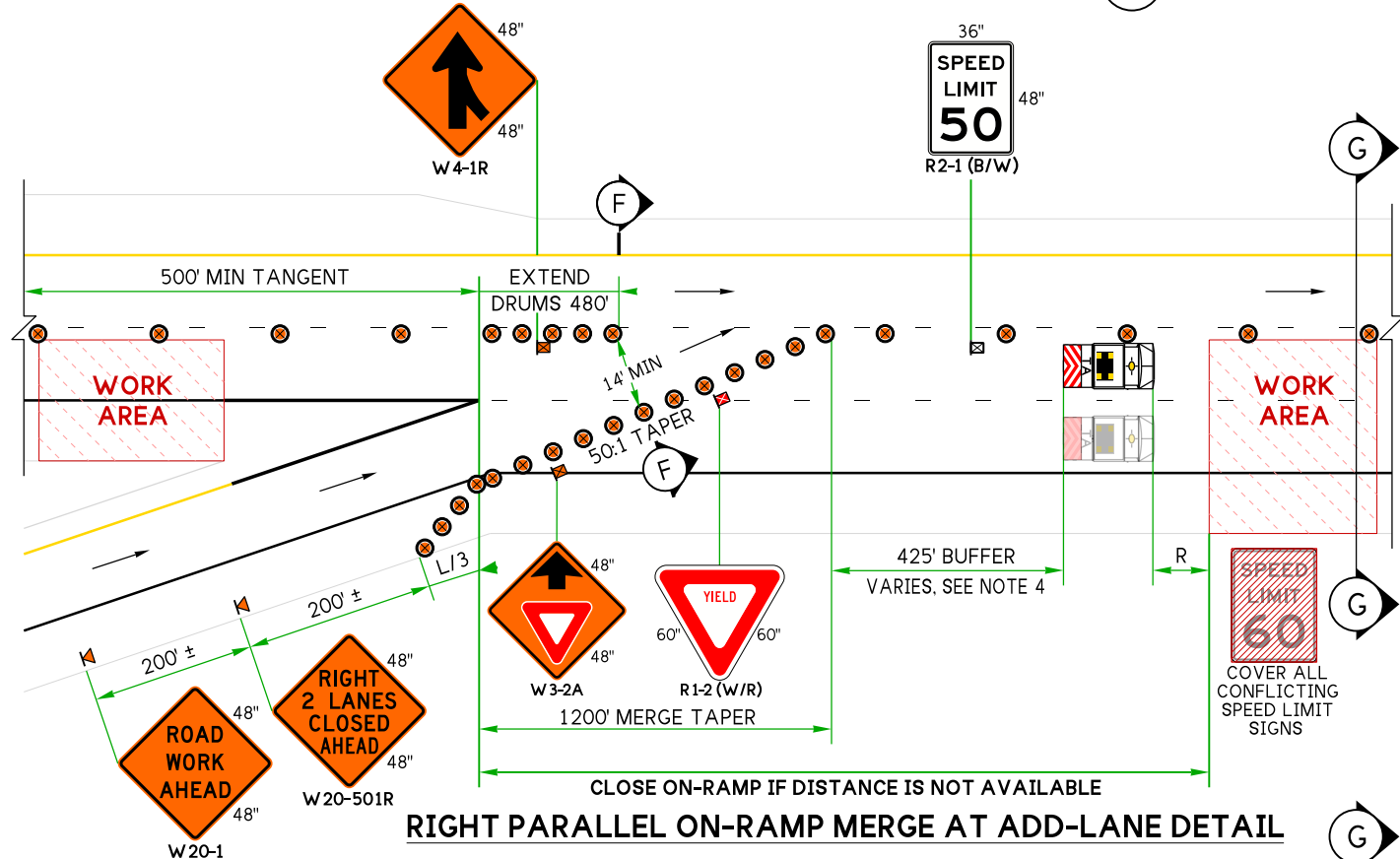


RIGHT PARALLEL ON-RAMP MERGE DETAIL

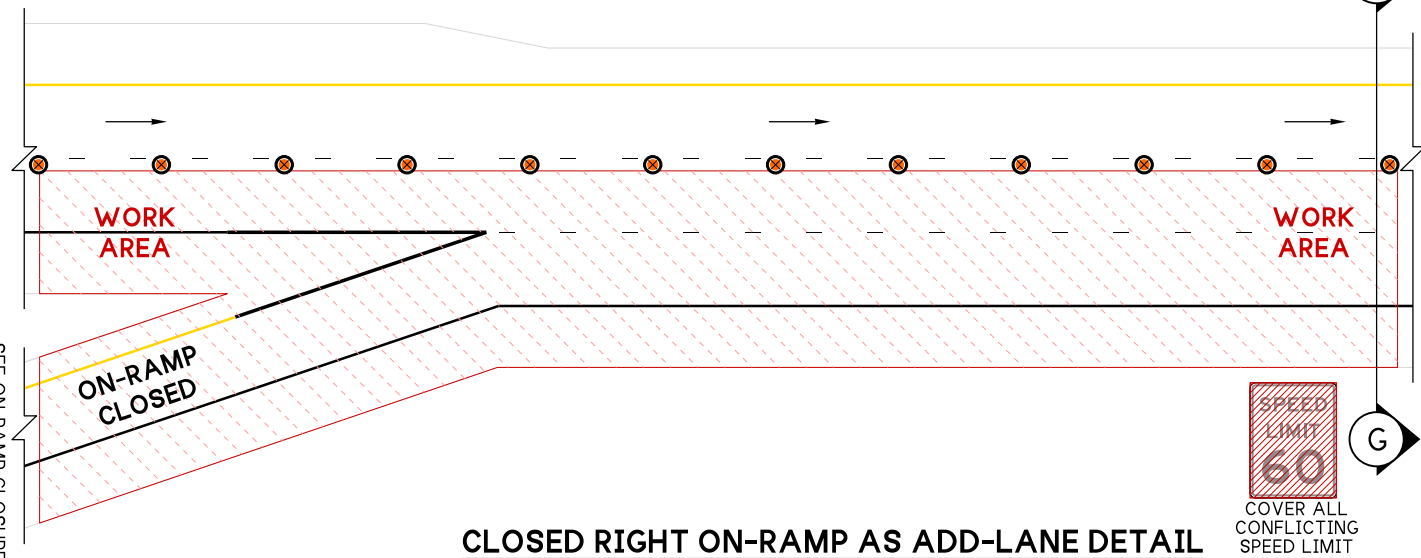


CLOSED RIGHT ON-RAMP MERGE DETAIL

SECTION (G-G)



RIGHT PARALLEL ON-RAMP MERGE AT ADD-LANE DETAIL



CLOSED RIGHT ON-RAMP AS ADD-LANE DETAIL

FREWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE (50 MPH WORK ZONE SPEED LIMIT)
NOT TO SCALE

FILE NAME	243_2C_Fwy1RtLane60to50WZSL.dgn	REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.		PLAN REF NO.	TC243
TIME	10:46:40 AM								
DATE	20-NOV-2025								
PLOTTED BY	LintzF								
DESIGNED BY									
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PROJ. ENGR.									
REGIONAL ADM.									
REVISION									
DATE									
BY									

PRELIMINARY PLAN

SEE CERTIFICATION SHEET DATE

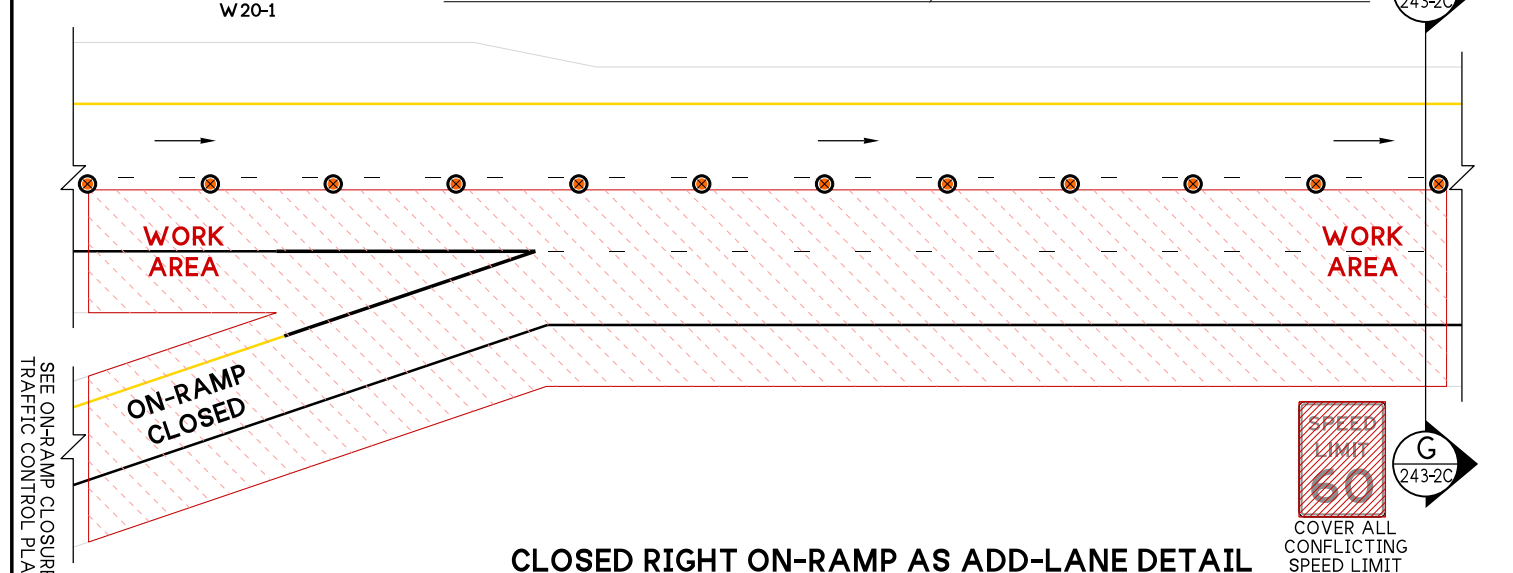
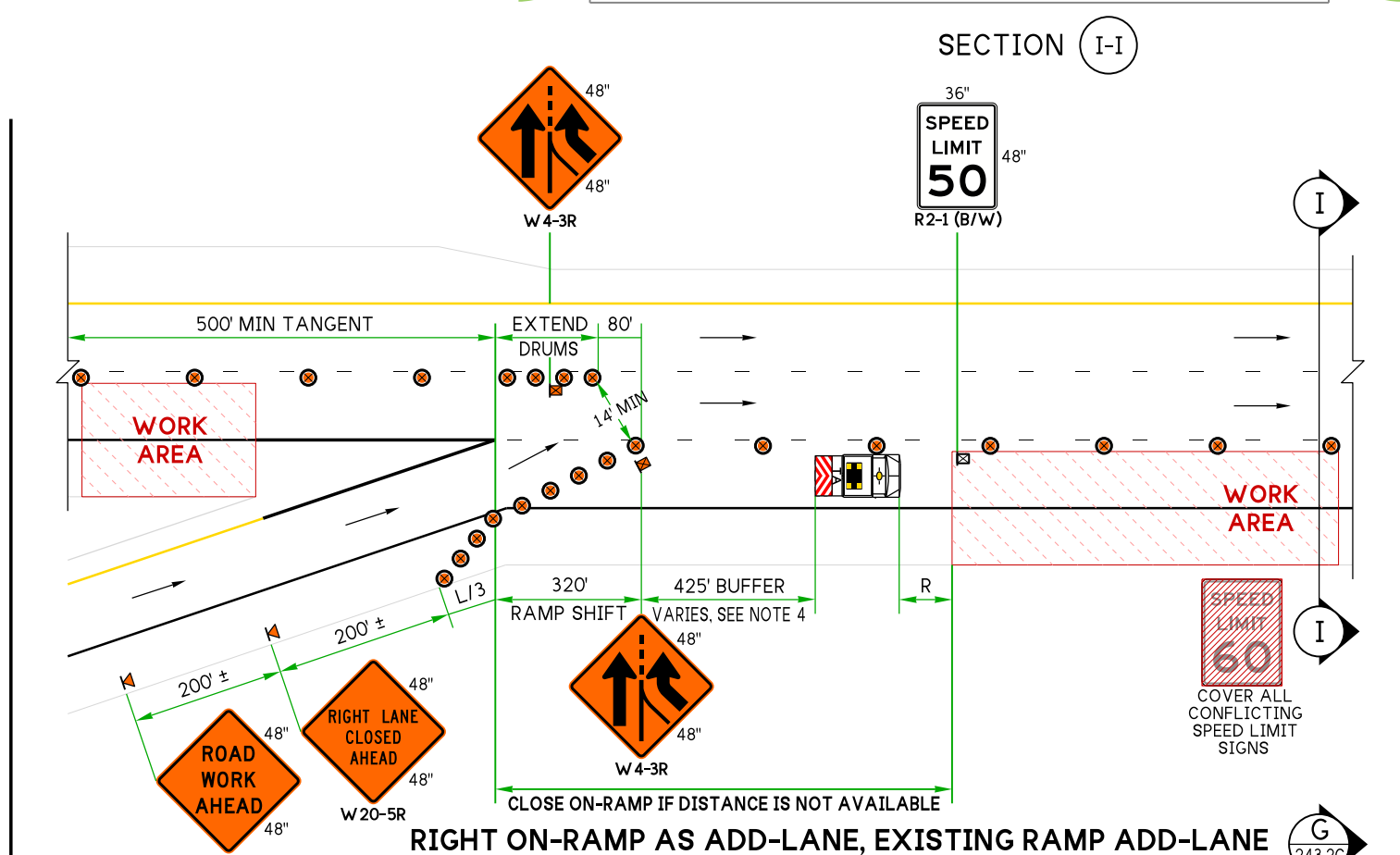
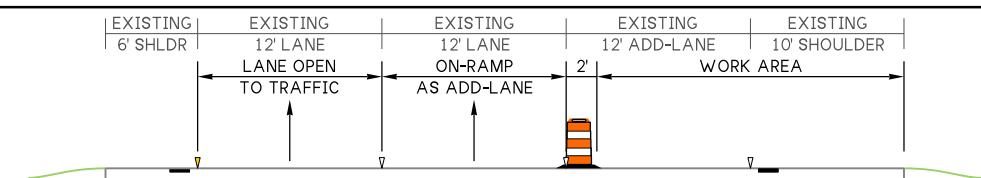
STAMP BOX

SEE CERTIFICATION SHEET DATE

STAMP BOX

TYPICAL TRAFFIC CONTROL PLANS

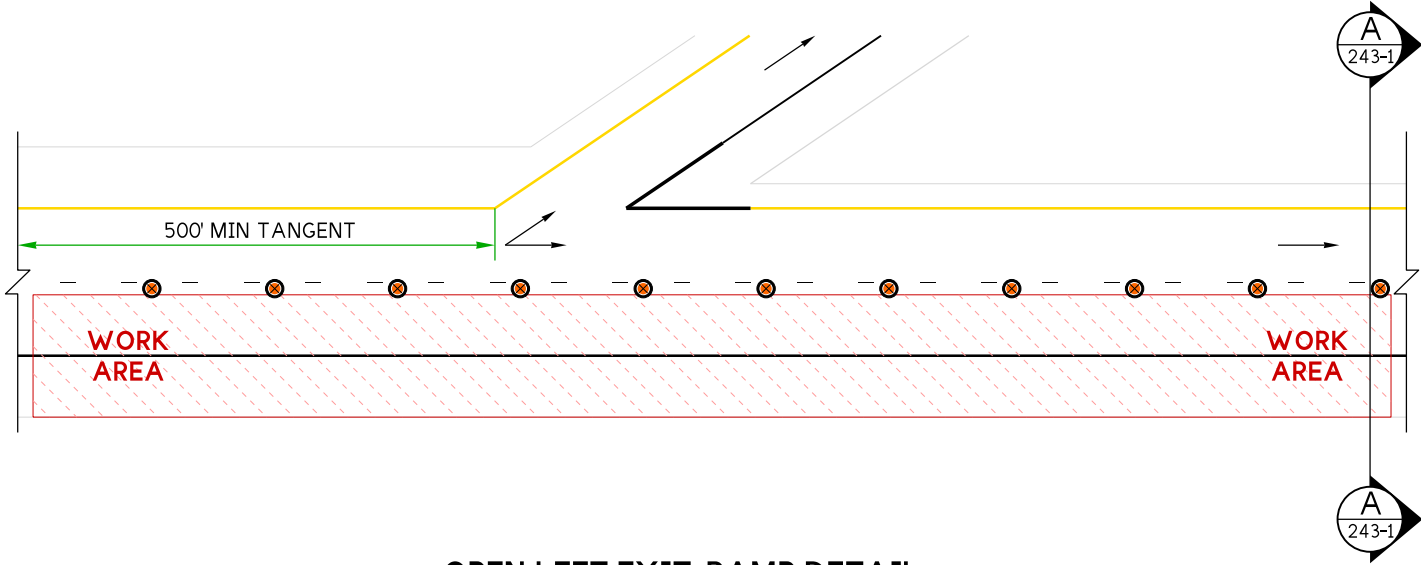
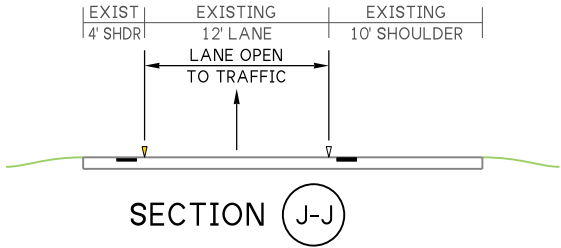
SHEET 2C OF 3 SHEETS



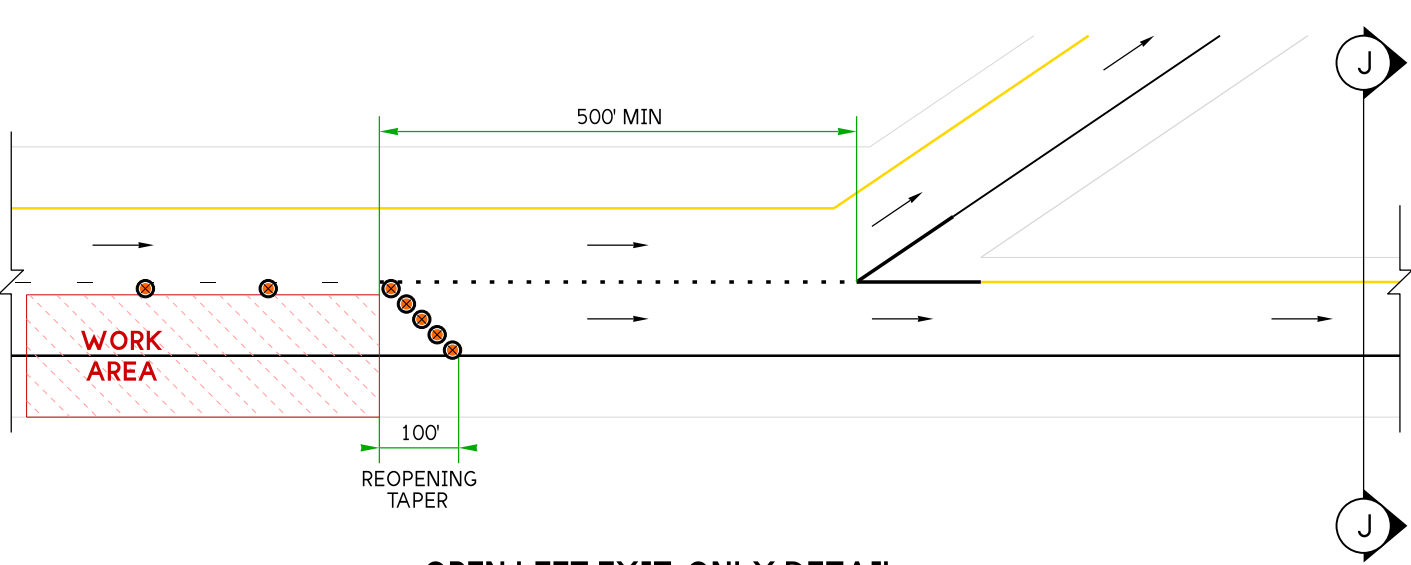
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FILE NAME243_ 2D_Fwy 1RtLane60to50WZSL.dgn					REGION NO.	STATE	FED. AID PROJ. NO.	<div> PRELIMINARY PLAN</div>	<div>SEE CERTIFICATION SHEET DATE</div>	<div>SEE CERTIFICATION SHEET DATE</div>	TYPICAL TRAFFIC CONTROL PLANS	PLAN REF NO.		
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DATE20-NOV-2025														
PLOTTED BYLintzF														
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- NOTES:
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 - 16. SEE DETOUR PLAN FOR ADDITIONAL RAMP CLOSURE DETOUR SIGNAGE.



OPEN LEFT EXIT-RAMP DETAIL



OPEN LEFT EXIT-ONLY DETAIL

CLOSED LEFT EXIT-RAMP DETAIL
LEFT EXIT-RAMPS ARE TO REMAIN OPEN

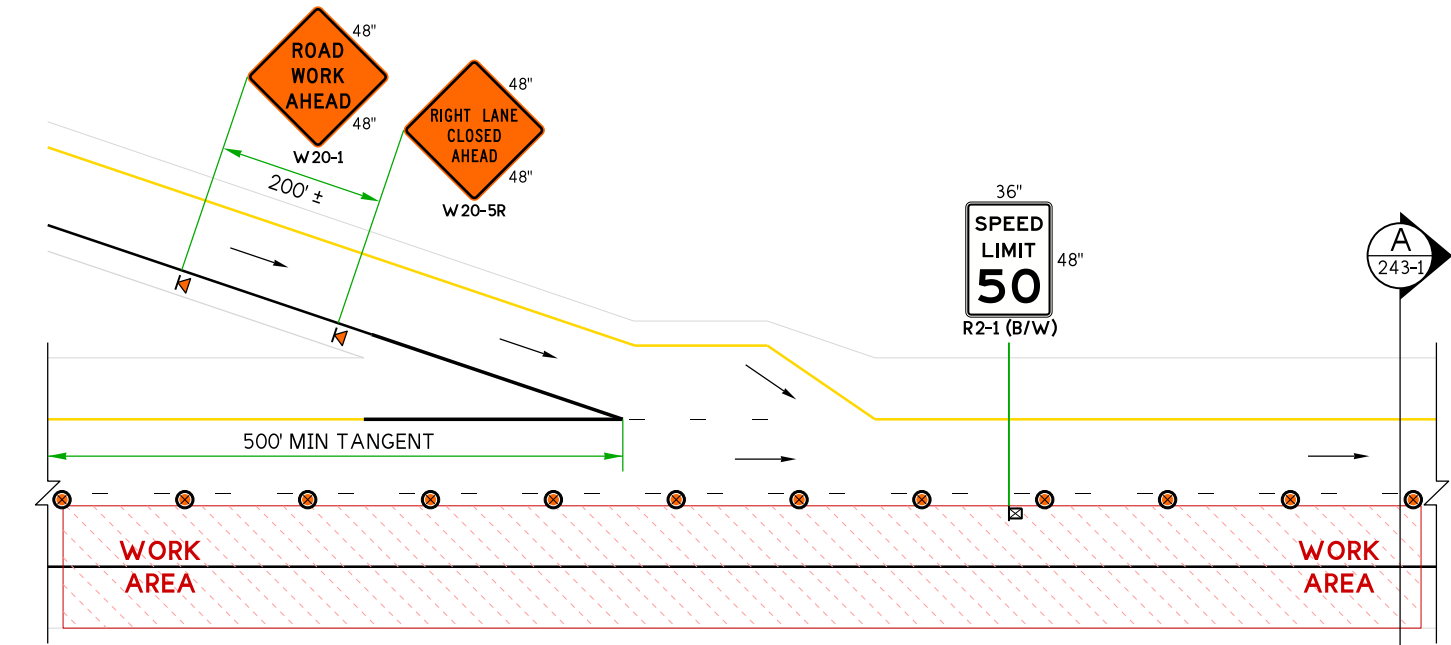
CLOSED LEFT EXIT-ONLY DETAIL
LEFT EXIT-RAMPS ARE TO REMAIN OPEN

FREEWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE (50 MPH WORK ZONE SPEED LIMIT)
NOT TO SCALE

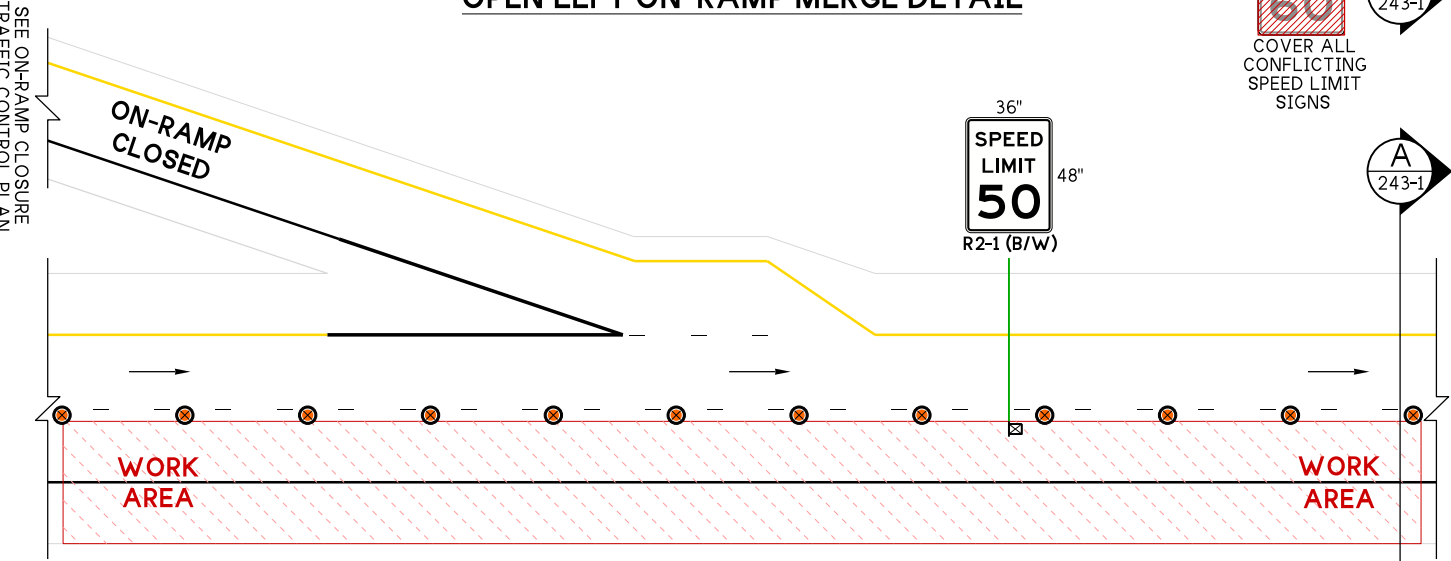
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TIME 10:46:59 AM				10	WASH		TC243					
DATE 20-NOV-2025				JOB NUMBER			SHEET 3A OF 3 SHEETS					
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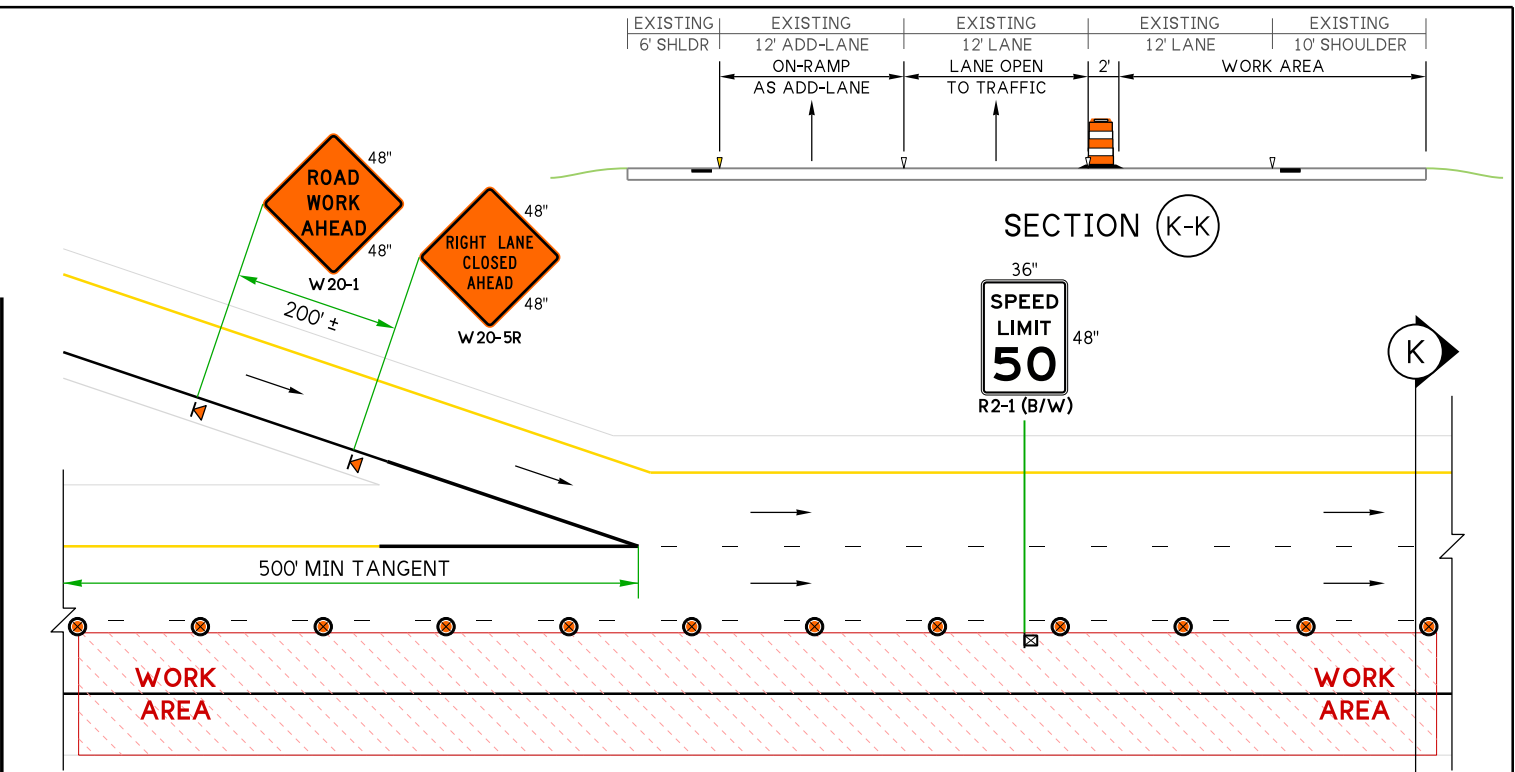
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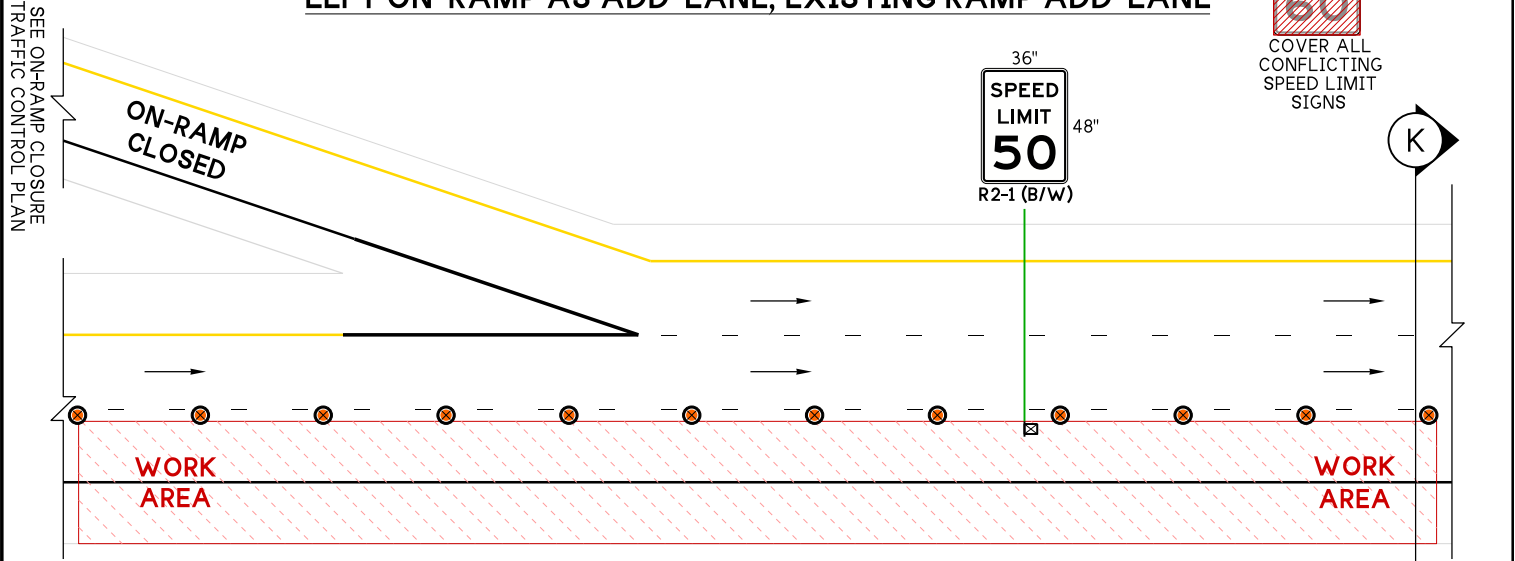
OPEN LEFT ON-RAMP MERGE DETAIL



CLOSED LEFT ON-RAMP MERGE DETAIL



LEFT ON-RAMP AS ADD-LANE, EXISTING RAMP ADD-LANE



CLOSED LEFT ON-RAMP AS ADD-LANE DETAIL

FREEWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE (50 MPH WORK ZONE SPEED LIMIT)
NOT TO SCALE

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FILE NAME	243_3B_Fwy1RtLane60to50WZSL.dgn	REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.		PLAN REF NO	TC243
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