DESIGN DESIGNATION

A.A.D.T - I-44 = 29789V = 70 M.P.H.

A.A.D.T - ROUTE C = 830V = 55 M.P.H.

A.A.D.T - ROUTE VV = 95V = 55 M.P.H.

A.A.D.T - ROUTE Y = 363V = 55 M.P.H.

A.A.D.T - I-70 = 84802V = 60 M.P.H.

A.A.D.T - I-270 = 69810V = 60 M.P.H.

A.A.D.T - ROUTE 47 = 12921V = 45 M.P.H.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

FRANKLIN, ST. CHARLES COUNTY, ST. LOUIS COUNTY,
AND ST. LOUIS CITY

BITUMINOUS CRACK FILL BID QUANTITIES
ROUTE 94 TO UNION BOULEVARD
LM 228.370 TO 244.370 BITUMINOUS CRACK FILL BID QUANTITIES VIADUCT STREET TO MO-100 LM 252.016 TO 258.194 6.190 MILES ROUTE C
BITUMINOUS CRACK FILL BID QUANTITIES
MO-100 TO US-50
LM 0.000 TO 14.384
14.384 MILES 团 CHARLES COUNTY

ROUTE VV BITUMINOUS CRACK FILL BID QUANTITIES MO-100 to ROUTE E LM 0.000 TO 4.496 4.496 MILES

BITUMINOUS CRACK FILL BID QUANTITIES
ROUTE E TO US-50
LM 0.000 TO 14.788 14.788 MILES

MO 47 BITUMINOUS CRACK FILL VARIABLE SCOPE I-44 TO MO-100 LM 57.836 TO 70.577 12.741 MILES

ÀD-FRANKLIN COUNTY

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INTENDED TO BE USED FOR ANY PART OR PARTS OF

THE PROJECT TO WHICH THIS PAGE REFERS.

LOU S COUNTY

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY
FACILITIES KNOWN TO EXIST. AS SHOWN ON THE PLANS,
ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE
COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED
BY THE COMMISSION AS: 15. AND THE COMMISSION EXPRESSLY
DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE
COMPLETENESS, ACCURACY, OR SUITABLITY OF THE INFORMATION
FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT
THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL
NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY
ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY
OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND
STATUS OR ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT
CONTACT WITH THE LISTED UTILITIES.

BITUMINOUS CRACK FILL BID QUANTITIES 1-70 TO ROUTE D (PAGE AVENUE) LM 20.308 TO 16.822

3 486 MILES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
QUANTITIES (QU)(2 SHEETS)	2
TRAFFIC CONTROL SHEETS (TC)	3-13

PE-201	M/S SO ASIA M.
DATE PF	
10/25	/2024
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SL	1
COU	NTY
VAR I	
JOB	NO.
JSL(0210
CONTRA	CT ID.
	CT NO.

BRIDGE NO.

WILLIAM OF MIST

LENGTH OF PROJECT

APPARENT LENGTH BID QUANTITIES	MIL
I-44 ROUTE C ROUTE VV ROUTE Y I-70 I-270	6.1 14.3 4.4 14.7 16.0 3.4
VARIABLE SCOPE	

EXCEPTIONS: FOR CRACKFILL SEE QUANTITIES SHEET 1 OF 2

MO-47

EXCEPT ALL BRIDGES I-44 WB EXCEPT CENTER JOINT IN ASPHALT LOG MILE: 37.450 TO 36.642 I-44 EB EXCEPT CENTER JOINT IN ASPHALT LOG MILE: 255.651 TO 256.454

I-70 EB EXCEPT NEW PAVEMENT LOG MILE: 234.869 TO 239.337
I-70 WB EXCEPT PAVEMENT BETWEEN BRIDGES A3750 AND A3753 LOG MILE 232.687 TO 232.817

NET LENGTH OF PROJECT 281983.68 LF STATE LENGTH 53.406 MILES

SHEET

12.471

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

MOBILIZATION 1 LUMP SUM

				BITU	MINOUS	CRACK F	ILLING - BID C)UANTITIES		
OADWAY	TW ID	COUNTY	DIRECTION	SECTION	START LM	END LM	THRU BITUMINOUS PAVEMENT CRACK FILLING (LF)	AUX BITUMINOUS PAVEMENT CRACK FILLING (LF)	TOTAL BITUMINOUS PAVEMENT CRACK FILLING (LF)	REMARKS
I - 44	10	FRANKLIN	WB	MO-100 TO FRANKLIN COUNTY LINE	258.194	252.016	221232	3379	224611	EXCEPT ALL BRIDGES; EXCEPT CENTER JOINT IN ASPHALT LOG MILE: 37.450 TO 36.642; ASSUMED TRANSVERSE CRACKS EVERY 15 FT
I - 44	9	FRANKLIN	EB	FRANKLIN COUNTY LINE TO MO-100	252.016	258.194	221232	5333	226565	EXCEPT ALL BRIDGES; EXCEPT CENTER JOINT IN APSHALT LOG MILE: 255.651 TO 256.454; ASSUMED TRANSVERSE CRACKS EVERY 15FT
oute C	7662/7663	FRANKLIN	SB/NB	MO-100 TO US-59	0.000	14.384	79861	0	79861	EXCEPT ALL BRIDGES; ASSUMED 5.2% TRANSVERSE CRACKS
oute VV	6963/6964	FRANKLIN	SB/NB	MO-100 TO ROUTE E	0.000	4.496	24728	0	24728	EXCEPT ALL BRIDGES; ASSUMED 4.2% TRANSVERSE CRACKS
Route Y	6967/6968	FRANKLIN	SB/NB	ROUTE E TO US-50	0.000	14.788	82397	0	82397	EXCEPT ALL BRIDGE; ASSUMEND 15% TRANSVERSE CRACKS
I - 70	19	STL CITY, STL COUNTY, ST. CHARLES	EB	ROUTE 94 TO UNION BOULEVARD	228.370	244.370	280626	12583	293209	EXCEPT NEW PAVEMENT LOG MILE: 234.869 TO 239.337; EXCEPT ALL BRIDGES; EXCEPT PAVEMENT BETWEEN BRIDGES A3750 AND A3753 LOG MILE: 232.687 to 232.817; ASSUMED 15FT TRANSVERSE CRACKS THROUGHOUT ROUTE
I - 70	3506	STL CITY, STL COUNTY, ST. CHARLES	WB	UNION BOULEVARD TO ROUTE 94	244.370	228.370	280176	12583	280176	EXCEPT NEW PAVEMENT LOG MILE 15.422 TO 10.797; EXCEPT ALL BRIDGES; EXCEPT PAVEMENT BETWEEN BRIDGES A3749 and A3752 LOG MILE: 17.30 TO 17.42; ASSUMED 15FT TRANSVERSE CRACKS THROUGHOUT ROUTE
I - 270	6136	ST. LOUIS	SB	I-70 TO ROUTE D (PAGE AVENUE)	16.822	20.308	91158	2478	93636	EXCEPT ALL BRIDGES; ASSUMED 30FT TRANSVERSE CRACKS ON SHOULDERS THROUGHOUT ROUTE
I - 270	6135	ST. LOUIS	NB	ROUTE D (PAGE AVENUE) TO 1-70	20.308	16.822	91197	2310	93507	EXCEPT ALL BRIDGES; ASSUMED 30FT TRANSVERSE CRACKS ON SHOULDERS THROUGHOUT ROUTE
					•		SUBTOTAL	1398690		
						F	PAY TOTAL	1398690	1	

	BITUMINOUS CRACK FILLING - VARIABLE SCOPE									
ROADWAY	TW ID	COUNTY	DIRECTION	SECTION	START LI	M END LM	THRU BITUMINOUS	AUX BITUMINOUS	TOTAL BITUMINOUS	
		1					PAVEMENT	PAVEMENT	PAVEMENT	
		1					CRACK	CRACK	CRACK	
		1					FILLING (LF)	FILLING (LF)	FILLING (LF)	
MO - 47	50/51	FRANKLIN	SB/NB	MO-100 TO I-44	57.836	70.577	379157	1358	I 380515	EXCEPT ALL BRIDGES; ASSUMED 15FT TRANSVERSE CRACKS THROUGHOUT ROUTE
								380515		

- 1) THESE QUANTITIES INCLUDE ALL EXISTING LONGITUDINAL JOINTS. INCLUDING BOTH SHOULDERS UNLESS NOTED
 2) THRU BITUMINOUS PAVEMENT CRACK FILLING INCLUDES TRANSVERSE JOINTS ON CONTINUOUS THROUGH LANES
 3) CONCRETE SHOULDER, IF PRESENT, SHALL BE CRACK FILLED.
 4) AUXILIARY LANES, IF PRESENT, SHALL BE CRACK FILLED.
 5) AUXILIARY LANES INCLUDE ALL ENTRANCE RAMPS, EXIT RAMPS, TURN LANES, ADDITIONAL LANES. AUXILIARY LANES BEGIN AT THE GORE
 OR LANE START AND END AT THE GORE OR LANE TERMINATION
- 6) STRUCTURES, UNLESS NOTED OTHERWISE, SHALL NOT BE CRACK FILLED

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ANASTASIA M.
SMITH
NUMBER
PE-2014017016 SONAL EN

10/25/2024 /AR STRICT MO SHEET NO 2 COUNTY VAR I OUS JOB NO. JSL0210 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

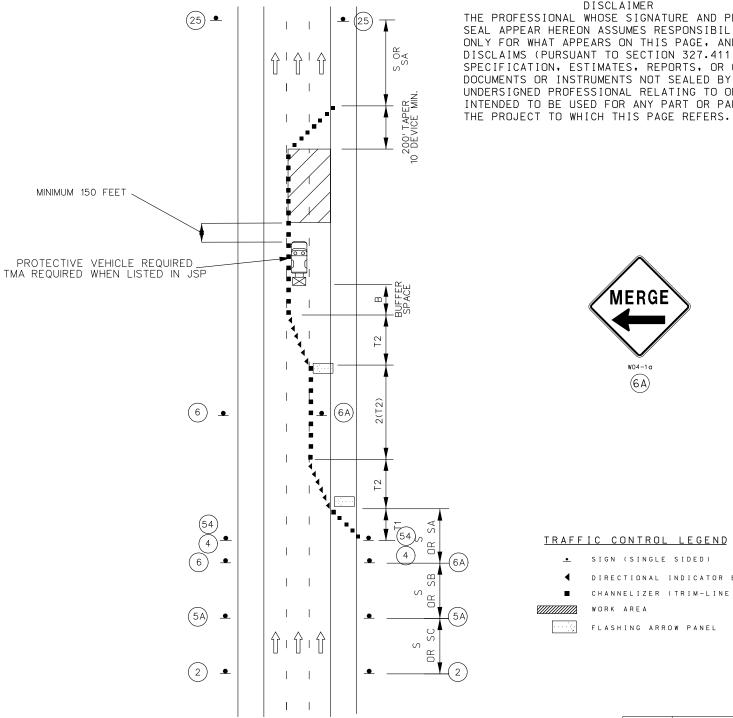
SUMMARY OF QUANTITIES SHEET 1 OF 2

EFFECTIVE: 04-01-2024

	DTAL SIGN SIGN	QTY TOTAL S	I II	
SIZE AREA QTY AREA RELOCR	ELOC NUM.		UM.	
SIGN IN. SQ.FT EACH SQ.FT. EACH S) FT	SIGN IN SQ FT EACH SQ FT EACH SQ FT.		ITEM TOTAL
				
WARNING SIGNS	DESCRIPTION	GUIDE SIGNS	DESCRIPTION	NUMBER QTY DESCRIPTION
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT)	E05-1 36X48 12.00 1 12	GORE EXIT	6122008 IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1 -1R 48X48 16.00	TURN (SYMBOL RIGHT)	E05-2 48X36 12.00		6122009 IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1 - 2L 48X48 16 .00	CURVE (SYMBOL LEFT)	E05-2a 48X36 12.00		6122010 IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2R 48X48 16.00	CURVE (SYMBOL RIGHT)	GO20-1 60X24 10.00	ROAD WORK NEXT XX MILES	6122012 IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-3L 48X48 16.00	REVERSE TURN (SYMBOL LEFT)	GO20-2 48X24 8.00	END ROAD WORK	6122014 IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3R 48X48 16.00	REVERSE TURN (SYMBOL RIGHT)	GO20-4 36X18 4.50 2 9	PILOT CAR FOLLOW ME	6122017 IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-4L 48X48 16.00	REVERSE CURVE (SYMBOL LEFT)	GO20 - 4a 42X30 8 . 75 4 35		6122019 IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4R 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT)	GO20-4a 18X12 1.50 4 6		6122020 REPLACEMENT SAND BARREL
WO1-4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP 36X24 6.00 4 24	WORK ZONE (PLAQUE)	6122030 IMPACT ATTENUATOR (RELOCATION)
WO1-4bR 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a 24X18 3.00	END DETOUR	6123001 1* TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cL 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L 48X36 12.00		6161008 ADVANCED WARNING RAIL SYSTEM
WO1-4cR 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R 48X36 12.00	DETOUR (RIGHT)	BUOYS (BOATS KEEP OUT)
WO1-6 60X30 12.50	HORIZONTAL ARROW (SYMBOL)	MO4-9P 48X12 4.00	STREET NAME (PLAQUE)	6161013 BUOYS (NO WAKE)
WO1-6a 72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L 48X18 6.00	DETOUR ARROW (LEFT)	6161014 SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7 60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R 48X18 6.00	DETOUR ARROW (RIGHT)	6161025 300 CHANNELIZER (TRIM LINE)
WO1-7a 72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARF		` '	6161030 TYPE III MOVEABLE BARRICADE
			STOR	
WO1-8 18X24 3.00	CHEVRON (SYMBOL)	R1 - 1 48X48 13.25	STOP	6161033 DIRECTION INDICATOR BARRICADE
WO1-8a 30X36 7.50	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2 48TRI 6.93 4 27.72		6161040 FLASHING ARROW PANEL
WO3-1 48X48 16.00	STOP AHEAD (SYMBOL)	R1-2a 36X36 9.00	TO ONCOMING TRAFFIC (PLAQUE)	6161047 TYPE III OBJECT MARKER
WO3-2 48X48 16.00 2 32	YIELD AHEAD (SYMBOL)	R1-3P 30X12 2.50		6161055 SEQUENTIAL FLASHING WARNING LIGHT
WO3-3 48X48 16.00				
	SIGNAL AHEAD (SYMBOL)			
WO3-4 48X48 16.00 6 96	BE PREPARED TO STOP	R3-1 48X48 16.00 1 16	NO RIGHT TURN (SYMBOL)	6161095 RADAR SPEED ADVISORY SYSTEM
WO3-5 48X48 16.00	SPEED LIMIT AHEAD	R3-2 48X48 16.00	NO LEFT TURN (SYMBOL)	CHANGEABLE MESSAGE SIGN,
WO4-1L 48X48 16.00 4 64	MERGE (SYMBOL FROM LEFT)	R3-3 36X36 9.00		6161096 COMMISSION FURNISHED/RETAINED
WO4-1R 48X48 16.00 4 64	MERGE (SYMBOL FROM RIGHT)	R3 - 4 48X48 16.00		CHANGEABLE MESSAGE SIGN W/O COMM.
			NO U-TURN (SYMBOL)	
WO4-1aL 48X48 16.00 1 16	MERGE (LEFT)	R3-7L 30X30 6.25		6161098A INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4-1aR 48X48 16.00 1 16	MERGE (RIGHT)	R3-7R 30X30 6.25	RIGHT LANE MUST TURN RIGHT	4* CHANGEABLE MESSAGE SIGN WITH COMM.
WO5-1 48X48 16.00 2 32	ROAD/BRIDGE/RAMP NARROWS	R4-1 36X48 12.00	DO NOT PASS	6161099 INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5-3 48X48 16.00	ONE LANE BRIDGE	R4-2 36X48 12.00		6162000A WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5-5 48X48 16.00	NARROW LANES	R4-7a 36X48 12.00 2 24	KEEP RIGHT (HORIZONTAL ARROW)	6162002 TEMPORARY LONG-TERM RUMBLE STRIPS
WO6-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-8a 36X48 12.00 2 24	KEEP LEFT (HORIZONTAL ARROW)	TEMPORARY TRAFFIC BARRIER
WO6-2 48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R5-1 30X30 6.25	DO NOT ENTER	6173600D CONTRACTOR FURNISHED/RETAINED
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1a 36X24 6.00	WRONG WAY	TEMPORARY TRAFFIC BARRIER
	NEXT XX MILES (PLAQUE)	R6-1L 54X18 6.75		6173602B CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8-1 48X48 16.00	BUMP	R6-1R 54X18 6.75	ONE WAY ARROW (RIGHT)	6174000A TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-2 48X48 16.00	DIP	R6-2L 24X30 5.00	ONE WAY (LEFT)	6175010A RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-3 48X48 16.00	PAVEMENT ENDS	R6-2R 24X30 5.00	ONE WAY (RIGHT)	TEMPORARY TRAFFIC BARRIER
WO8-4 48X48 16.00	SOFT SHOULDER	R9-9 24X12 2.00		6176000B COMMISSION FURNISHED/RETAINED
		N3-3 24X12 2:00		
WO8-5 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)	- 	SIDEWALK CLOSED AHEAD,	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-6 48X48 16.00	TRUCK CROSSING	R9-11L 24X18 3.00	(ARROW LEFT) CROSS HERE	6177000B COMMISSION FURNISHED/RETAINED
WO8-6c 48X48 16.00	TRUCK ENTRANCE		SIDEWALK CLOSED AHEAD,	6208064A TEMPORARY RAISED PAVEMENT MARKER
WO8-7 36X36 9.00	LOOSE GRAVEL	R9-11R 24X18 3.00	(ARROW RIGHT) CROSS HERE	9029400 TEMPORARY TRAFFIC SIGNALS
WO8-7a 36X36 9.00	FRESH OIL / LOOSE GRAVEL		STOP HERE ON RED (45^ ARROW)	
	· · · · · · · · · · · · · · · · · · ·			9029401 TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-9 48X48 16.00	LOW SHOULDER	R11-2 48X30 10.00	ROAD CLOSED	
WO8-11 48X48 16.00	UNEVEN LANES		ROAD CLOSED XX MILES AHEAD	
WO8-12 48X48 16.00	NO CENTER LINE	R11-3a 60X30 12.50	LOCAL TRAFFIC ONLY	
WO8-15 48X48 16.00	GROOVED PAVEMENT	R11-4 60X30 12.50	ROAD CLOSED TO THRU TRAFFIC	
W08-15P 30X24 5.00	MOTORCYCLE (PLAQUE)	CONST - 3A 60X48 20.00	FINE SIGN	
WO8-17L 48X48 16.00	SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-3X 56X12 4.67	SPEEDING/PASSING (PLATE)	
WO8-17R 48X48 16.00	SHOULDER DROP-OFF (SYMBOL RIGHT)	MISCELLANEOUS SIGNS		
WO8-17P 30X24 5.00	SHOULDER DROP-OFF (PLAQUE)	CONST-5 48X36 12.00	POINT OF PRESENCE	TEMPODADY TDAEFIC CONTROL 4 LUMB CUM
W10-1 42RND. 9.62	RAILROAD CROSSING	CONST-5 96X48 32.00	POINT OF PRESENCE	TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM
WO12-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)	CONST-7 48X24 8.00	RATE OUR WORK ZONE	* ITEM NOT INCLUDED IN LUMP SUM
WO12-2 48X48 16.00	LOW CLEARANCE (SYMBOL)	CONST-7 72X36 18.00	RATE OUR WORK ZONE	TEMPORARY TRAFFIC CONTROL
W012-2x 24X18 3.00	LOW CLEARANCE (PLAQUE)	CONST-8 48X36 12.00	WORK ZONE NO PHONE ZONE	
WO12-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)			AA NU DIDECT DYA MILL DE MADE EOD
W012-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD			** NO DIRECT PAY WILL BE MADE FOR
				RELOCATING SIGNS
WO12-5 120X60 50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD			
WO13-1 30X30 6.25	ADVISORY SPEED (PLAQUE)			
WO16-2 30X24 5.00	XXX FEET (PLAQUE)			
WO16-3 30X24 5.00	X MILE (PLAQUE)			
W020-1 48X48 16.00 8 128	ROAD/BRIDGE/RAMP WORK AHEAD			
WO20-2 48X48 16.00	DETOUR AHEAD			
48X48 16.00 4 64	3 RIGHT LANES CLOSED AHEAD	616-10.05 TOTAL		
WO20-4 48X48 16.00 6 96	ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS 1233.72		
WO20-5 48X48 16.00 4 64	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10 TOTAL	NOTES:	
		_	NOTES.	
WO20-5a 48X48 16.00 4 64	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCATED SIGNS 0	DEEED TO STANDARD	
WO20-6a 48X48 16.00 4 64	RIGHT/CENTER/LEFT LANE CLOSED		REFER TO STANDARD	
WO20-7a 48X48 16.00 4 64	FLAGGER (SYMBOL)		PLAN 616.10 AND 903.03 FOR	(
WO21-2 36X36 9.00	FRESH OIL	DISCLAIMER	SIGN AND SIGN	
		THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL		
WO21-5 48X48 16.00	SHOULDER WORK / SHOULDER WORK AHEAD	SEAL APPEAR HEREON ASSUMES RESPONSIBILITY	MOUNTING REQUIREMENTS.	
	BLASTING ZONE AHEAD	ONLY FOR WHAT APPEARS ON THIS PAGE, AND		
WO22-1 48X48 16.00	TURN OFF 2-WAY RADIO AND PHONE	DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO)	CMS USE AS DIRECTED BY ENG	INEER
WO22-1 48X48 16.00 WO22-2 42X36 10.50		SPECIFICATION, ESTIMATES, REPORTS, OR OTHER		
WO22-2 42X36 10.50				
WO22-2 42X36 10.50 WO22-3 42X36 10.50	END BLASTING ZONE	DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE		
WO22-2 42X36 10.50				

ANASTASA M. SMITH
NUMBER
PE-2014017016 10/25/2024 VAR MO DISTRICT SHEET NO. SL 2 COUNTY VARIOUS JOB NO. JSL0210 CONTRACT ID. PROJECT NO. BRIDGE NO

SUMMARY OF QUANTITIES SHEET 2 OF 2



DOUBLE LANE CLOSURE ON A DIVIDED HIGHWAY

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)

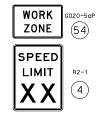
WORK AREA

FLASHING ARROW PANEL











NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.

FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

SPEED	SIGN SPACI	NG (f+.)	TAPER LENGTH	H (f+.)	OPTIONAL	CHANNEL I ZER	SPACING (ft.)
PERM. POSTED (MPH)	UN -DIVIDED	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	_	200	70	245	250	35	40
40-45	_	500	150	540	360	40	80
50-55	_	1000	185	660	495	50	80
60-70	_	SA-1000 SB-1500 SC-2640	235	840	730	60	120
	1 Shou	Ilder taper I	enath based on 10	ft (standar	d shoulder width) offset	

2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE



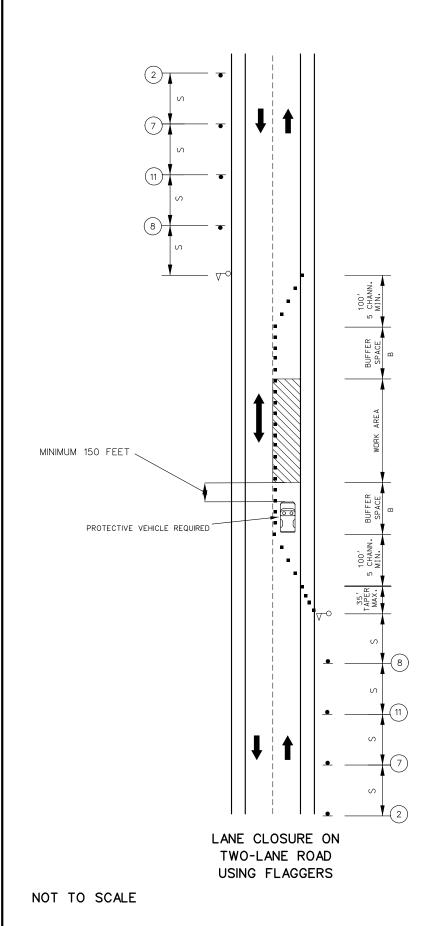
10/25/2024 VAR MO SHEET NO SL 3

VAR I OUS JSL0210 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NFIC CONTROL SHEET SUBLE LANE CLOSURE SHEET 1 OF 11











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NOTES:

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD) AND PORTABLE SIGNAL FLAGGING DEVICES (PSFD) MAY BE USED AS AN ALTERNATIVE FLAGGING OPERATION.

AFAD AND PSFD TYPICAL APPLICATIONS AND CRITERIA ARE LOCATED AT THE FOLLOWING: EPG 616.8.10A LANE CLOSURE ON TWO-LANE HIGHWAYS USING AUTOMATED FLAGGER ASSISTANCE DEVICE WITH RED AND AMBER SIGNAL SYSTEM & EPG 616.8.10C LANE CLOSURE ON TWO-LANE HIGHWAYS USING PORTABLE SIGNAL FLAGGING DEVICE.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

IF RUMBLE STRIPS ARE USED. REVIEW 616.6.87 RUMBLE STRIPS.

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)

 WORK AREA

FLAGGER

SPEED	SIGN SPACI	NG (ft.)	TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER	SPACING (ft.)		
PERM. POSTED (MPH)	UN -DIVIDED	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS		
0-35	200	_	_	-	250	-	40		
40-45	350	-	-	-	360	-	80		
50-55	500	ı	-	-	495	-	80		
60-70	1000	_	_	_	730	_	120		
	1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.								

ANASTASA M.
SMITH
NUMBER
PE-2014017016

THIS SHEET HAS BEEN SIGNED, SEALED AND DA

TO / 25 / 2024

ROUTE STATE

VAR MO

DISTRICT SHEET NO

SL 4

JOB NO.
JSL0210
CONTRACT ID.

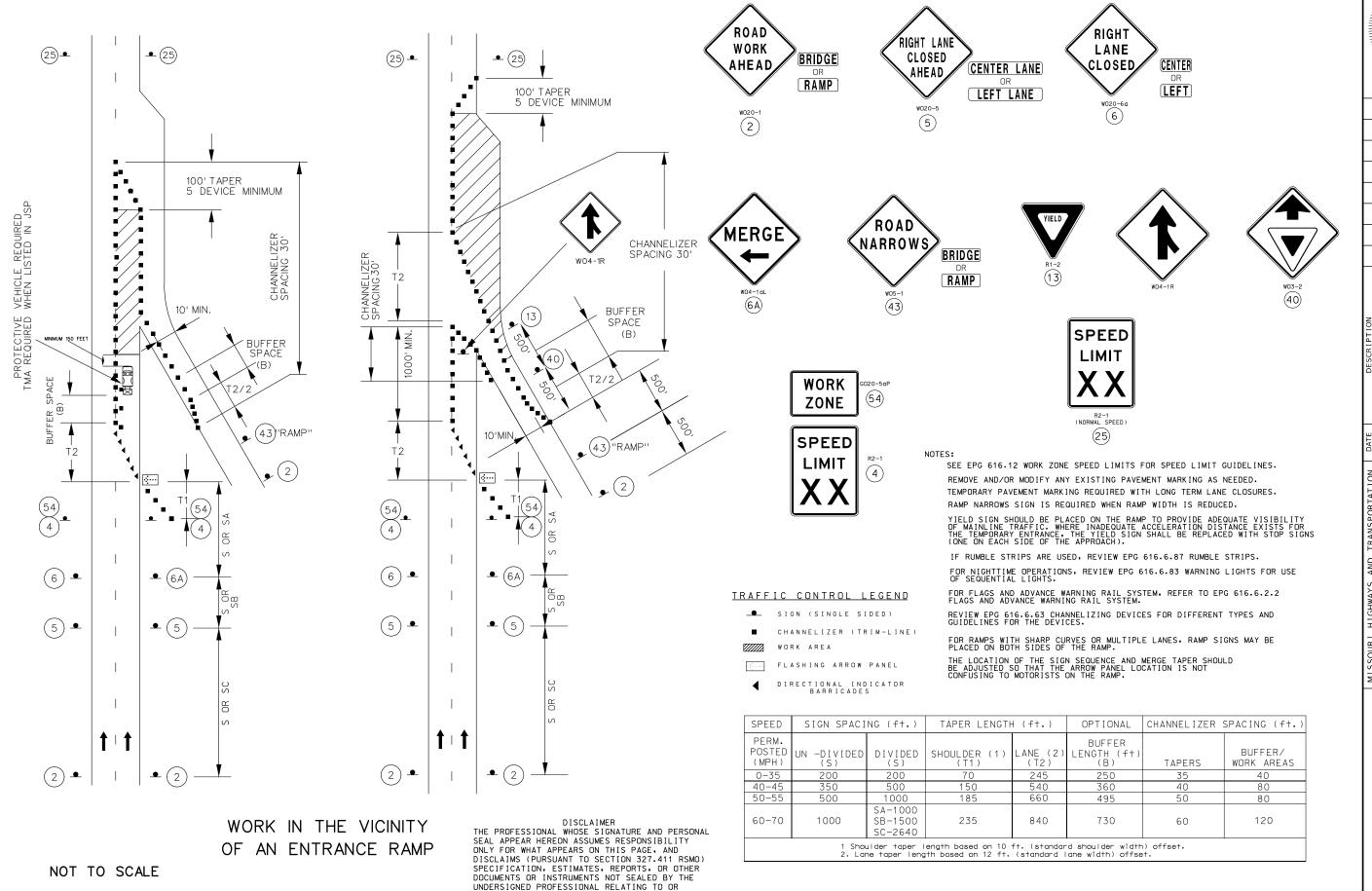
PROJECT NO.

DESCRIPTION

OWMISSION

MISSOURI HIGHWAYS AND COMMISSIC

TRAFFIC CONTROL SHEET
LANE CLOSURE ON
TWO-LANE ROAD USING FLAGGERS
SHEET 2 OF 11



INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

ANASTASIA M. SMITH NUMBER PE-2014017016 SSONAL E

10/25/2024 VAR MO SHEET NO SL 5

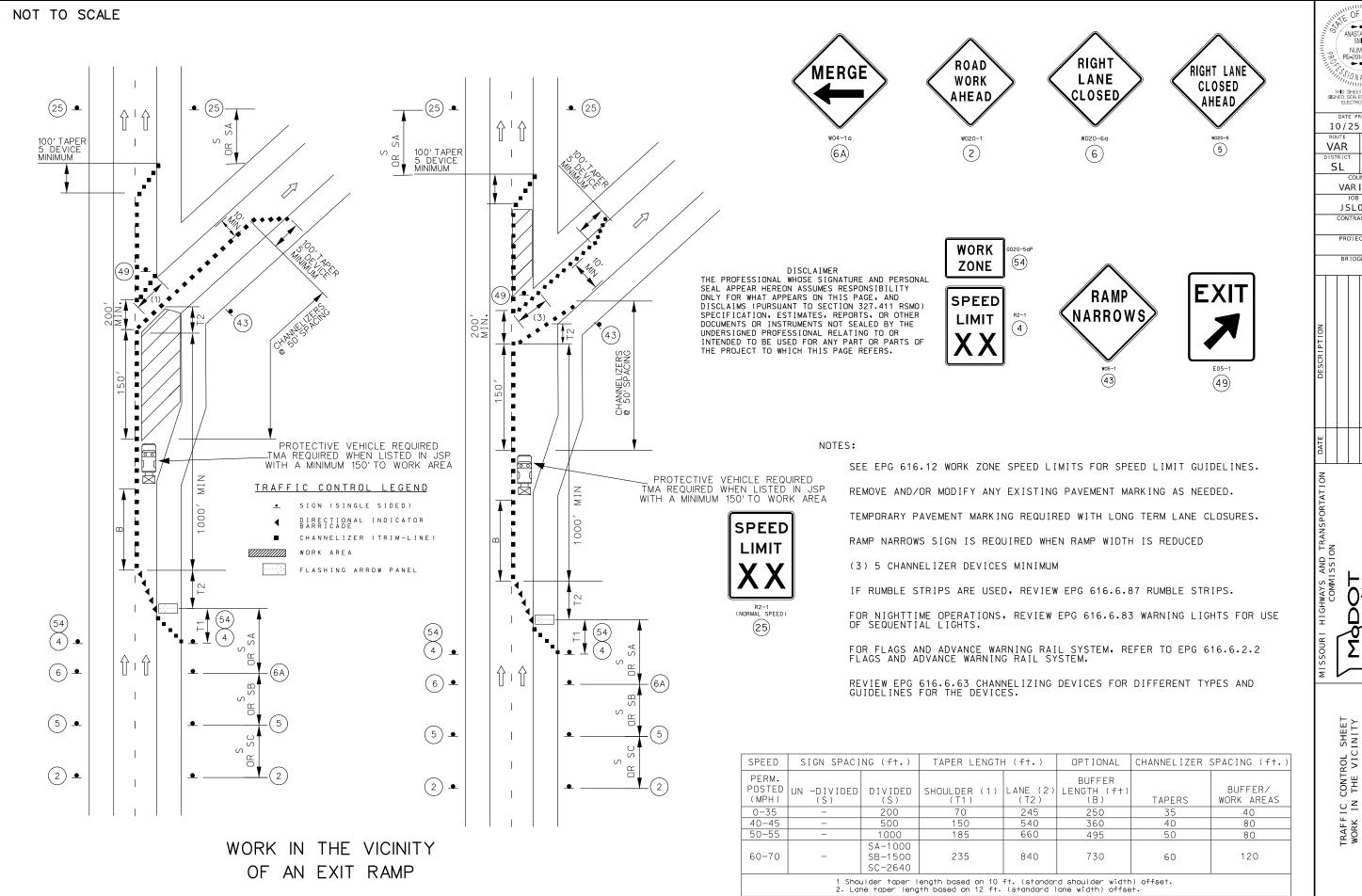
VAR I OUS LOB NO JSL0210

CONTRACT ID. PROJECT NO

BRIDGE NO

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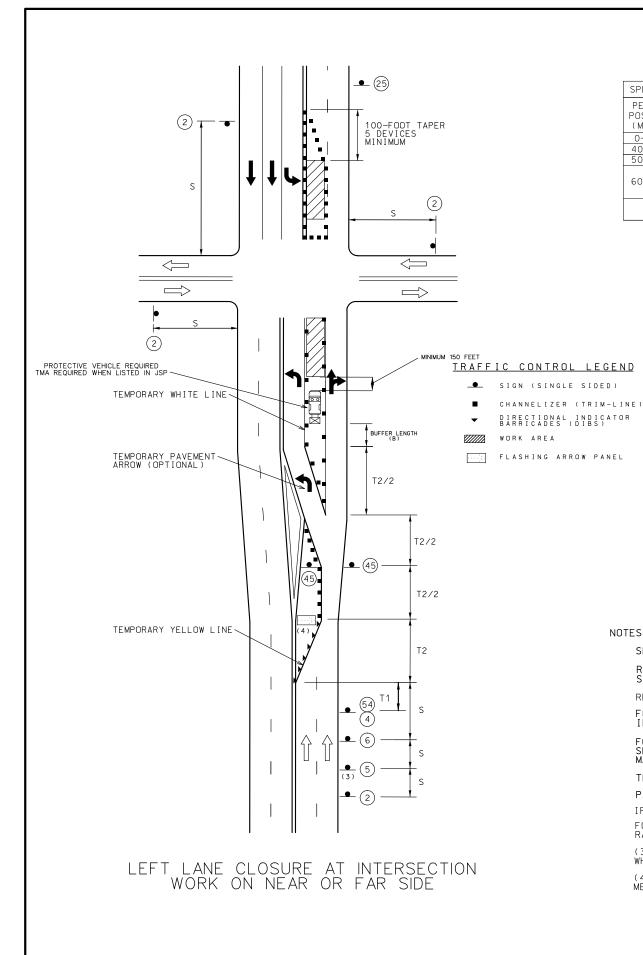
RK IN THE VICINITY
AN ENTRANCE RAMP
SHEET 3 OF 11





BRIDGE NO.

TRAFFIC CONTROL SHEET WORK IN THE VICINITY OF AN EXIT RAMP SHEET 4 OF 11



SPEED	SIGN SPACI	NG (ft.)	TAPER LENGTH	H (ft.)	OPTIONAL	CHANNEL IZER	SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (ft)	TAPERS	BUFFER/ WORK AREAS	
0-35	200	200	70	245	250	35	40	
40-45	350	500	150	540	360	40	80	
50-55	500	1000	185	660	495	50	80	
60-70	SA-1000							
			ength based on 10 th based on 12 ft.					

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LEFT ROAD LEFT LANE LANE WORK CLOSED **CLOSED** AHEAD AHEAD W020-1 W020-6a W020-5 (2) (6) (5)

LEFT LANE

MUST

TURN LEFT

(45)

NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

SPEED

LIMIT

(25)

REVIEW TYPICAL APPLICATION 616.8.23a (TA-23a) LEFT LANE CLOSURE AT INTERSECTION WORK ON FAR SIDE ONLY- DE/CM

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

WORK

ZONE

SPEED

(54)

(4)

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

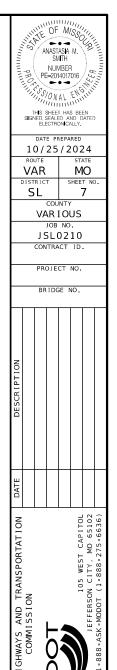
IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCED WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

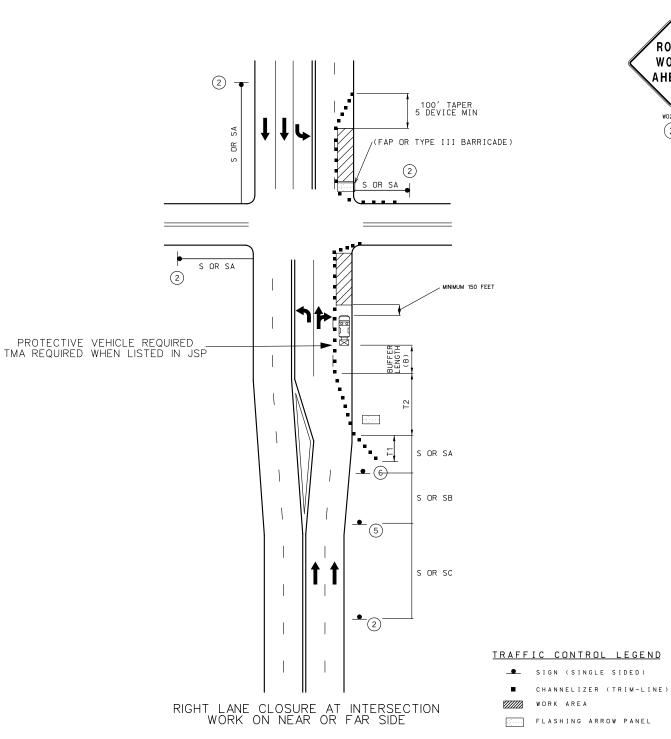
(3) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(4) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.

NOT TO SCALE



O OL SHEET
INTERSECTI
FAR SIDE ROL AT OR FFIC CONT CLOSURE ON NEAR C









NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

REVIEW TYPICAL APPLICATION 616.8.22d (TA-22d) LANE CLOSURE OF RIGHT LANE ON FAR SIDE OF INTERSECTION.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION. WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING. A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR HTE FULL SIGN SERIES.

IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCED WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

SPEED	SIGN SPACI	NG (ft.)	TAPER LENGTH (ft.)		OPTIONAL	CHANNEL I ZER	SPACING (ft.)
PERM, POSTED (MPH)	UN -DIVIDED	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	250	35	40
40-45	350	500	150	540	360	40	80
50-55	500	1000	185	660	495	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	730	60	120
	1 Shou	ulder taper l	enath based on 10	ft. (standar	d shoulder width) offset.	

2. Lane taper length based on 12 ft. (standard lane width) offset.

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ANASTASIA M.

NUMBER
PE-2014017016

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PE-2014017016

NAL
PM-3METH THIS SHEET HAS SHEE

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	COL	NTY	′		
V	AR :	Ю	US		
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J	SL	02	10		
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COMMISSION

COMMISSION

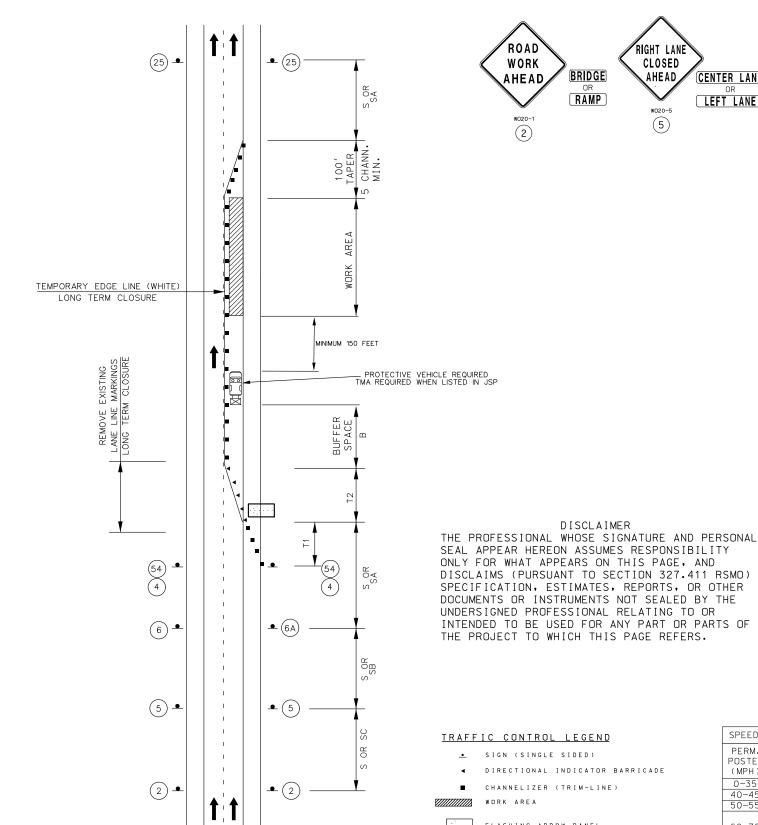
MADOT

105 WEST CAP

JEFFERSON CITY, MO 6:

TRAFFIC CONTROL SHEET RIGHT LANE CLOSURE AT INTERSECTI WORK ON NEAR OR FAR SIDE SHEET 6 OF 11

NOT TO SCALE



STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY

NOT TO SCALE













NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE. ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER AND REVIEW EPG 616.8.34 (TA-34) LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER

REVIEW EPG 616.8.34A (TA-34A) LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS - DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTION

REVIEW EPG 616.6.83 WARNING LIGHTS WHEN SEQUENTIAL OR WARNING LIGHTS SHOULD BE USED ON NIGHTTIME OPERATIONS.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE

DISCLAIMER

CHANNELIZER (TRIM-LINE)

WORK AREA

FLASHING ARROW PANEL

SPEED	SIGN SPACI	NG (ft.)	TAPER LENGTH (ft.)		OPTIONAL	IONAL CHANNELIZER SPAC			
PERM. POSTED (MPH)	UN -DIVIDED	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (f+)	TAPERS	BUFFER/ WORK AREAS		
0-35	_	200	70	245	250	35	40		
40-45	-	500	150	540	360	40	80		
50-55	-	1000	185	660	495	50	80		
60-70	_	SA-1000 SB-1500 SC-2640	235	840	730	60	120		
	1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.								

(NORMAL SPEED)

ANASTASIA M. SMITH NUMBER PE-2014017016

SONAL F

10/25/2024

VAR I OUS

JSL0210 CONTRACT ID. PROJECT NO. BRIDGE NO.

MO

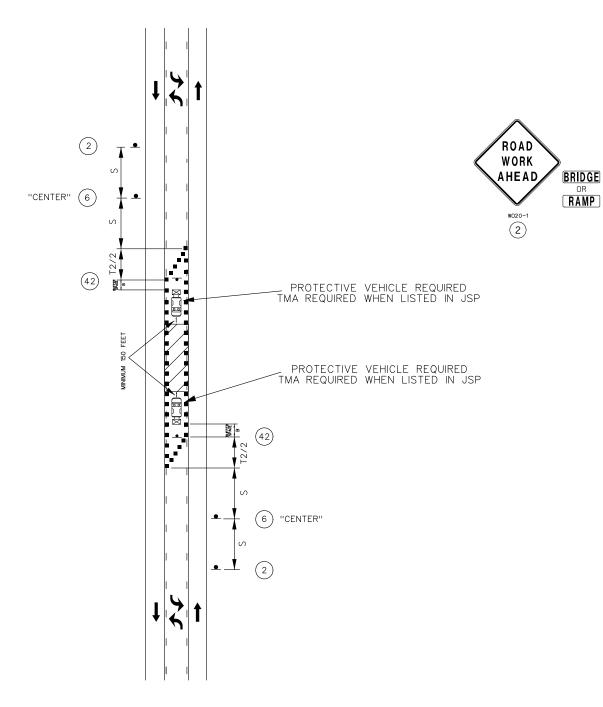
SHEET NO

9

VAR

SL

AFFIC CONTROL SHEET TIONARY LANE CLOSURE A A DIVIDED HIGHWAY SHEET 7 OF 11 TRAF STATI ON



OPERATIONS IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAYS TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

CHANNELIZER (TRIM-LINE)

WORK AREA

.....

FLASHING ARROW PANEL





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NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (f+.)		
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS	
0-35	_	200	70	245	250	35	40	
40-45	-	350	150	540	360	40	80	
50-55	_	500	185	660	495	50	80	
60-70	=	1000	235	840	730	60	120	
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.								

ANASTASA M.
SMITH.
NUMBER
PE-2014017016

JIHAS SHEET HAS BEEN
ISNED SFALED AND DATED
ELECTRONCALLY.

10/25/2024

ROUTE STATE
VAR MO
DISTRICT SHEET NO
SL 10

VARIOUS

JOB NO.
JSL0210

CONTRACT ID.

BRIDGE NO.

DATE DESCRIPTION

COMMISSION

COMMISSION

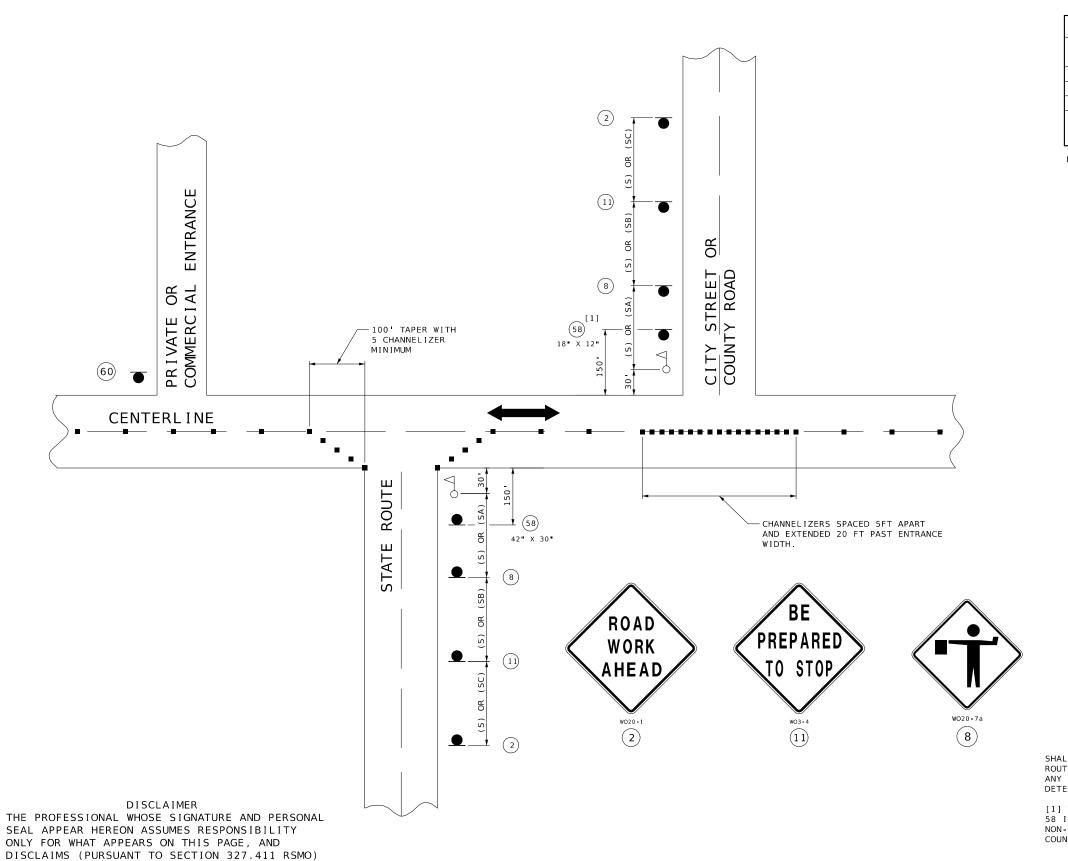
DOT

105 WEST CAPITOL

LEFFERSON CITY, MO 65102

TRAFFIC CONTROL SHEET OPERATIONS IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAY SHEET 8 OF 11

NOT TO SCALE



SPEED	SIGN SPACING (FT.)				
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)			
0-35	200	200			
40 - 45	350	500			
50 - 55	500	1000			
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640			

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES

WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

- CHANNELIZERS (AS SPECIFIED)

- FLAGGE

PILOT CAR IN USE WAIT & FOLLOW

G020-4a

SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER.

[1] THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

PILOT CAR IN USE Wait & Follow

24° × 18°

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10

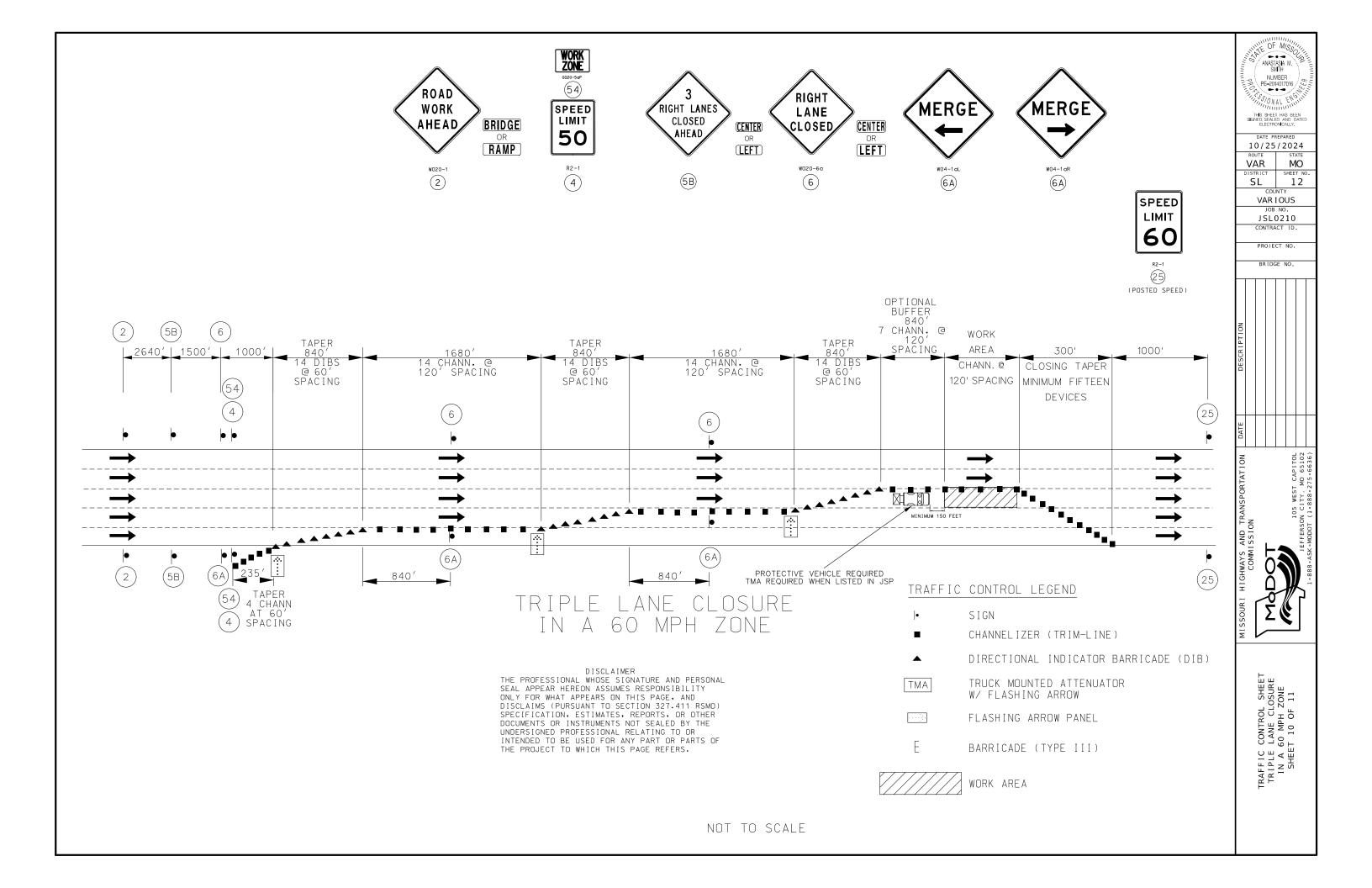
ANASTASIA M. NUMBER PE-2014017016 11,8810NAL EN 10/25/2024 VAR MO SHEET NO SL 11 VAR I OUS JOB NO. JSL0210 CONTRACT ID. PROJECT NO. BRIDGE NO.

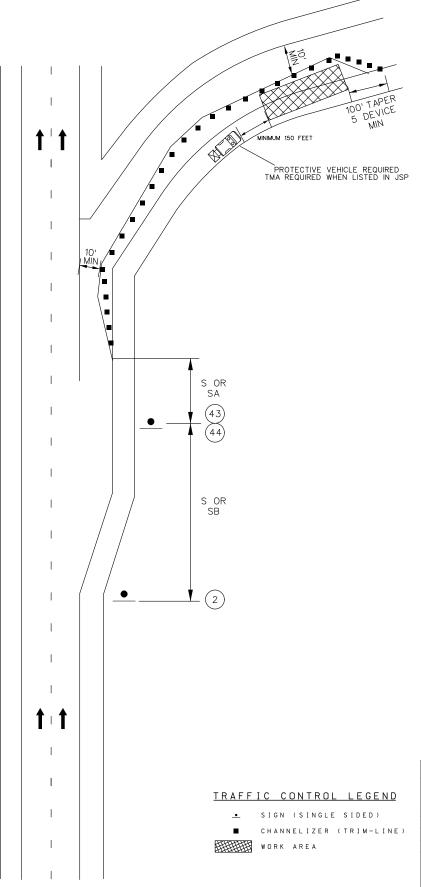
> TRAFFIC CONTROL SHEET SIDE STREETS WHILE FLAGGING SHEET 9 OF 11

SIDE ROADS ENTERING WORK ZONES

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NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (f+.)		OPTIONAL	CHANNELIZER SPACING (f+.)		
PERM. POSTED (MPH)	UN -DIVIDED	DIVIDED (S)	SHOULDER (1)	LANE (2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS	
0-35	_	200	70	245	280	35	40	
40-45	_	500	150	540	400	40	80	
50-55	_	1000	185	660	560	50	80	
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120	
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset								

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset. ANASTASIA M.
NUMBER
PE-2014/017018

DATE PREPARED

10/25/2024

ROUTE STATE

VAR MO

DISTRICT SHEET NO.

SL 13

COUNTY

JOB NO.
JSL0210
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

ANSPORTATION DATE DE

MISSOURI HIGHWAYS AND TRANSPORTA
COMMISSION

MADOT

105 WEST C.

JEFFERSON CITY, MO

TRAFFIC CONTROL SHEET ARTIAL EXIT RAMP CLOSURE SHEET 11 OF 12