### DESIGN DESIGNATION

A.A.D.T. - 2024 = VARIOUS

D.H.V. = VARIOUS

T = VARIOUS

V = VARIOUS

D = VARIOUS

HWY 13 FUNCTIONAL CLASSIFICATION - FREEWAY
MO 9 FUNCTIONAL CLASSIFICATION - FREEWAY
MO 152 FUNCTIONAL CLASSIFICATION - INTERSTATE
I-29 FUNCTIONAL CLASSIFICATION - INTERSTATE
I-35 FUNCTIONAL CLASSIFICATION - INTERSTATE
I-70 FUNCTIONAL CLASSIFICATION - INTERSTATE
I-435 FUNCTIONAL CLASSIFICATION - FREEWAY

# NO R/W ACQUISITION

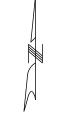
# CONVENTIONAL SYMBOLS

	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER	0000	••••
UTILITIES FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FO OTV UTV - OT - UT - OE - UE - S - G - UW - OT - OE - OT - OT - OT - OT - OT - OT	- FO - OTV - UTV - OT - OE - S - S - G - W
MANHOLE	SAN	$\ni$
FIRE HYDRANT	HYD	3
WATER VALVE	wv C	€
WATER METER	wn4	€
DROP INLET	, i	
DITCH BLOCK	=	⊭
GROUND MOUNTED SIGN	S I GN	_
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST BENCHMARK	PED VX	<u></u>
DENCHMARK	× ×	9

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

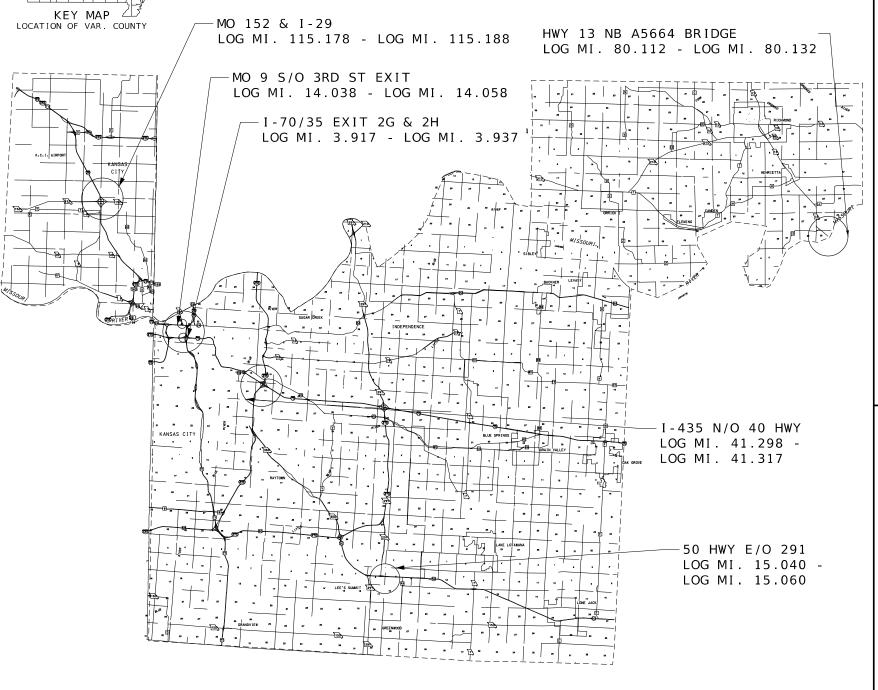
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY PLATTE, JACKSON, AND RAY COUNTY



URBAN KC IMPACT ATTENUATOR

NOT TO SCALE



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-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY 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 OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

### INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
QUANTITIES (QU) (2 SHEETS)	2
PLAN-PROFILE (PP)	3 - 5
SPECIAL SHEETS (SS)	6
TRAFFIC CONTROL SHEETS (TC)	7 - 12

JUNE OF	MISSOLITI									
THAI MAT	NKAM HEW MBER									
==B PE-201	4000056									
777,70N	AL EMILIA									
MO-PE-2	MATHEW NUMBER OF THE PROPERTY									
	REPARED									
Z / 4 /	2025									
	MO									
VAR	MO									
DISTRICT	MO SHEET NO									
DISTRICT	SHEET NO									
DISTRICT KC	SHEET NO 1									
DISTRICT KC COU	SHEET NO  1  NTY I OUS									
DISTRICT KC COU VAR JOB	SHEET NO 1 NTY I OUS NO.									
DISTRICT KC COU VAR JOB JKU	SHEET NO 1 NTY IOUS NO. 0113									
DISTRICT KC COU VAR JOB JKU	SHEET NO 1 NTY I OUS NO.									
DISTRICT KC COU VAR JOB JKU(	SHEET NO 1 NTY IOUS NO. 0113									

# LENGTH OF PROJECT

MO 152 & I-29 LOG MILE: 115.178 - 115.188

MO 9 S/O 3RD ST EXIT LOG MILE: 14.038 - 14.058

I-70/35 EXIT 2G & 2H LOG MILE: 3.917 - 3.937

I-435 N/O 40 HWY LOG MILE: 41.298 - 41.317

50 HWY E/O 291 LOG MILE: 15.040 - 15.060

HWY 13 NB A5664 BRIDGE LOG MILE: 80.112 - 80.132

575.520 FEET

APPARENT LENGTH

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS 0 FEET

NET LENGTH OF PROJECT 575.520 FEET

STATE LENGTH 0.109 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

0 ACRES



	REMOVAL OF	MPROVEMENTS	1PROVEMENTS				
PLAN	ROADWAY	LOG MI.	EACH	REMARKS			
SHEET							
1	MO 152 & I-29	115.178	16	SAND BARRELS			
1	I-70/35 EXIT 2G & 2H	3.917	8	SAND BARRELS			
2	HWY 13 NB A5664 BRIDGE	80.112	21	SAND BARRELS			
3	MO 9 S/O 3RD ST EXIT	14.058	9	SAND BARRELS			
4	I-435 SB N/O 40 HWY EXIT	41.298	4	SAND BARRELS			
4	50 HWY E/O 291	15.040	19	SAND BARRELS			
LUMP SUM = 1							

MOB I	LIZAT	ION
LUMP	SUM =	1

GUARDRA I L											
			BR I DGE	MASH	SHAPING						
		MGS	APPROACH	TYPE A	SLOPES						
		GUARDRAIL	TRANS.	CET	CLASS III						
LOG MI.	LOCATION	LF	EA	EA	100 FT	REMARKS					
115.178	MO 152 & I-29	62.50	1	1	1.47	ATTACH TO EXISTING BARRIER					
41.298	I-435 SB N/O 40 HWY EXIT	12.50	1	1	0.74	ATTACH TO EXISTING BARRIER					
14.038	HWY 9 S/O 3RD ST EXIT	25.00	1	1	1.09	ATTACH TO EXISTING BARRIER					
14.038	HWY 9 S/O 3RD ST EXIT	25.00	1	1	1.09	ATTACH TO EXISTING BARRIER					
	TOTAL	125	4	4	4.00						

MASH CRASH CUSHION									
LOG MILE	LOCATION	MASH TYPE C							
		CRASHWORTHY							
		END TERMINAL							
		EA							
3.917	I-70/35 EXIT 2G & 2H	1							
15.040	50 HWY E/O 291	1							
	TOTAL	2							

CONCRETE TRAFFIC BARRIER TYPE C									
LOG MI.	LOG MI.	LOCATION	REMARKS						
			HEIGHT TRANSITION						
			LF						
80.112	80.132	HWY 13 NB	20	SEE SPECIAL SHEET FOR DETAILS					
		TOTAL	20						

	CONCRETE PAD										
LOG MI.	LOG MI.	LOCATION	LENGTH	WIDTH	CONCRETE PAD	LINEAR GRADING	AGGREGATE BASE				
						CLASS 1	TYPE 1 OR 5				
			FT	FT	SQ. YD	STA	SQ. YD				
80.112	80.132	HWY 13 NB	22	4	9.8	0.2	10				
				TOTAL	9.8	0.2	10				

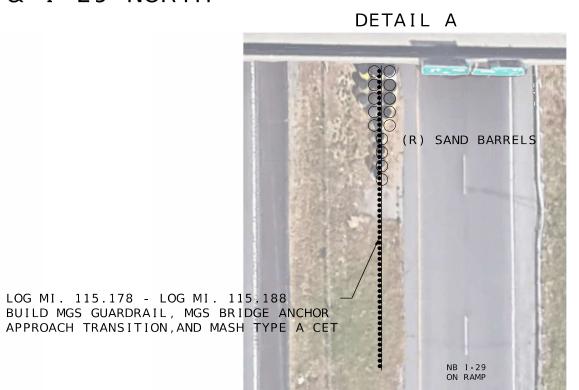


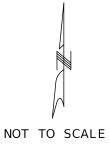
												EFFECTIVE: 07-01-2024		JIIIIIIIII	Шии,,,, F М/So	·
		L QTY TOTAL SIGN					QTY						Ш	III ATE	-•-	
		RELOC RELOC NUM.				1 1	QTY TOTAL RELC							THAN MAT	ANKAM ATHEW	
SIGN IN. SQ.FT		EACH SQ FT		SIGN	IN.		EACH SQ FT EACH	SQ.FT.		ITEM				= 3 . PE-2014	JMBER 14000056 <sub>-</sub>	FB
WO1-1L 48X48 16.0	WARNING	SIGNS	DESCRIPTION TURN (SYMBOL LEFT)	E05-1	26749	12.00	GUIDE SIGNS		DESCRIPTION  GORE EXIT	NUMBER 6122008	· ·	DESCRIPTION  IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		11/688/01	ENC	Mil.
WO1-1E 48X48 16 0			TURN (SYMBOL RIGHT)	E05-2		12.00	1 12		EXIT OPEN	6122008		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	$\exists \bot$	77771111	Almin'	12
WO1-2L 48X48 16.0	0		CURVE (SYMBOL LEFT)	E05-2a					EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)		02/04/2025 THANKAM MA	NATUEN C	M SD/II
WO1-2R 48X48 16.0			CURVE (SYMBOL RIGHT)	1		10.00			ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	╛┢	MO-PE-20	2014000056	3
WO1-3L 48X48 16.0 WO1-3R 48X48 16.0			REVERSE TURN (SYMBOL LEFT) REVERSE TURN (SYMBOL RIGHT)	GO20-2 GO20-4					END ROAD WORK PILOT CAR FOLLOW ME	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)  IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	-HI	2/4/	/202	
WO1-4L 48X48 16.0			REVERSE CURVE (SYMBOL LEFT)	GO20 - 4a					PILOT CAR IN USE WAIT & FOLLOW	6122017		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	$\dashv$ $\vdash$	ROUTE		TATE
WO1-4R 48X48 16.0			REVERSE CURVE (SYMBOL RIGHT)	GO20-4a					PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	╛┢	VAR		MO ET NO.
WO1-4bL 48X48 16.0			DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20 - 5 a			4 24		WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)		KC		2
WO1-4bR 48X48 16.0 WO1-4cL 48X48 16.0			DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)  TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4 - 8a MO4 - 9L		3.00			END DETOUR DETOUR (LEFT)	6123001 6161008		TRUCK MOUNTED ATTENUATOR (TMA)  ADVANCED WARNING RAIL SYSTEM	$\dashv \Gamma$		RIOUS	
WO1-4cR 48X48 16.0			TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R					DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)	ℲͰ		B NO.	
WO1-6 60X30 12.5			HORIZONTAL ARROW (SYMBOL)	MO4 - 9P					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	╛┕		J <b>011</b> 3	
WO1 - 6a 72X36 18.0			HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4 - 10L					DETOUR ARROW (LEFT)	6161014	72	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	-11	CONTRA	RACT ID	1.
WO1-7 60X30 12.5 WO1-7a 72X36 18.0			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)  DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	MO4 - 10R	48718		REGULATORY SI	GNS	DETOUR ARROW (RIGHT)	6161025 6161030		CHANNELIZER (TRIM LINE) TYPE III MOVEABLE BARRICADE	Ⅎℾ	PROJE	ECT NO	
WO1-8 18X24 3.00			CHEVRON (SYMBOL)	R1-1	48X48	13.25	TREGGE/TOTT GT		STOP	6161033		DIRECTION INDICATOR BARRICADE	╗┪	BRID	OGE NO.	
WO1-8a 30X36 7.50			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2		6.93			YIELD	6161040	3	FLASHING ARROW PANEL		BKIDG	GE NO.	
WO3-1 48X48 16.0 WO3-2 48X48 16.0			STOP AHEAD (SYMBOL)	R1-2a R1-3P		9.00			TO ONCOMING TRAFFIC (PLAQUE) ALL WAY (PLAQUE)	6161047 6161055	39	TYPE III OBJECT MARKER  SEQUENTIAL FLASHING WARNING LIGHT	⊣┌			П
WO3-2 48X48 16.0 WO3-3 48X48 16.0			YIELD AHEAD (SYMBOL) SIGNAL AHEAD (SYMBOL)	R1-3P R2-1		3 12.00	4 48		SPEED LIMIT XX	6161055	39	TUBULAR MARKER	$\dashv \bot$			
WO3-4 48X48 16.0			BE PREPARED TO STOP	R3 - 1		16.00			NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	<b>]</b> [			
WO3-5 48X48 16.0			SPEED LIMIT AHEAD	R3-2		16.00			NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,	<sub>2</sub>	<u> </u>		
WO4-1L 48X48 16.0 WO4-1R 48X48 16.0			MERGE (SYMBOL FROM LEFT) MERGE (SYMBOL FROM RIGHT)	R3-3 R3-4		9.00			NO TURNS NO U-TURN (SYMBOL)	6161096		COMMISSION FURNISHED/RETAINED  CHANGEABLE MESSAGE SIGN W/O COMM.	<b>⊣ [</b> բ	:		
WO4-1R 48X48 16.0			MERGE (LEFT)	R3-4 R3-7L		6.25			LEFT LANE MUST TURN LEFT	6161098	4	INTERFACE - CONTRACTOR FURNISHED/RETAINER	D     0	<u> </u>		
WO4-1aR 48X48 16.0			MERGE (RIGHT)	R3-7R		6.25			RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.		3		
WO5-1 48X48 16.0			ROAD/BRIDGE/RAMP NARROWS	R4-1		12.00			DO NOT PASS	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINE	믜[	1		
WO5-3 48X48 16.0 WO5-5 48X48 16.0			ONE LANE BRIDGE NARROW LANES	R4-2 R4-7a		3 12.00 3 12.00			PASS WITH CARE KEEP RIGHT (HORIZONTAL ARROW)	6162000 <i>A</i>		WORK ZONE TRAFFIC SIGNAL SYSTEM TEMPORARY LONG-TERM RUMBLE STRIPS	+11			
WO6-1 48X48 16.0			DIVIDED HIGHWAY (SYMBOL)	R4-8a		12.00			KEEP LEFT (HORIZONTAL ARROW)	0102002		TEMPORARY TRAFFIC BARRIER				
WO6-2 48X48 16.0			DIVIDED HIGHWAY END (SYMBOL)	R5-1		6.25			DO NOT ENTER	61736000		CONTRACTOR FURNISHED/RETAINED	⊒ F	+++	Ш.	Ш
WO6-3 48X48 16.0 WO7-3a 30X24 5.00			TWO WAY TRAFFIC (SYMBOL)	R5-1a R6-1L		6.00			WRONG WAY ONE WAY ARROW (LEFT)	   6173602E		TEMPORARY TRAFFIC BARRIER		1		
WO8-1 48X48 16.0			NEXT XX MILES (PLAQUE) BUMP	R6-1L		6.75			ONE WAY ARROW (LEFT)  ONE WAY ARROW (RIGHT)	61740004		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		i		
WO8-2 48X48 16.0	0		DIP	R6-2L		5.00			ONE WAY (LEFT)	6175010 <i>A</i>		RELOCATING TEMPORARY TRAFFIC BARRIER		<u></u> 2		- 2 C
WO8-3 48X48 16.0			PAVEMENT ENDS	R6-2R		5.00			ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER		2	ŀ	1TOL
WO8-4 48X48 16.0 WO8-5 48X48 16.0			SOFT SHOULDER SLIPPERY WHEN WET (SYMBOL)	R9-9	24X12	2.00			SIDEWALK CLOSED AHEAD,	6176000E	1	COMMISSION FURNISHED/RETAINED  TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		<u> </u>	;	NO OF
WO8-6 48X48 16.0			TRUCK CROSSING	R9-11L	24X18	3.00			(ARROW LEFT) CROSS HERE	  6177000E		COMMISSION FURNISHED/RETAINED		5	ŀ	F _ (
WO8-6c 48X48 16.0			TRUCK ENTRANCE						SIDEWALK CLOSED AHEAD,	6208064 <i>A</i>		TEMPORARY RAISED PAVEMENT MARKER		ñ Z	7	S WES
WO8-7 36X36 9.00			LOOSE GRAVEL FRESH OIL / LOOSE GRAVEL	R9-11R					(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS TEMPORARY TRAFFIC SIGNALS AND LIGHTING	-    £	<u> </u>	Č	N .
WO8-7a 36X36 9.00 WO8-9 48X48 16.0			LOW SHOULDER	R10-6 R11-2		6.00			STOP HERE ON RED (45^ ARROW) ROAD CLOSED	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	ے ا ا⊢	10N		ERSC
WO8-11 48X48 16.0	0		UNEVEN LANES						ROAD CLOSED XX MILES AHEAD					I SS	_	EFF
WO8-12 48X48 16.0			NO CENTER LINE	R11-3a					LOCAL TRAFFIC ONLY	-			_     5		. 2	<b>\</b>
WO8-15 48X48 16.0 WO8-15P 30X24 5.00			GROOVED PAVEMENT MOTORCYCLE (PLAQUE)	R11-4 CONST-3					ROAD CLOSED TO THRU TRAFFIC FINE SIGN				-     \$	≨8 <b>(</b> )		$\Lambda$ :
WO8 - 17L 48X48 16.0			SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 3					SPEEDING/PASSING (PLATE)	1			-	ے ک	1 1	"
WO8-17R 48X48 16.0			SHOULDER DROP-OFF (SYMBOL RIGHT)				MISCELLANEOUS	SIGNS					_	┆╶⋜		ヘ
W08-17P 30X24 5 00 W10-1 42RND 9 62			SHOULDER DROP-OFF (PLAQUE) RAILROAD CROSSING	CONST-5					POINT OF PRESENCE POINT OF PRESENCE	-				į ( <del>č</del>	- (6	
W012-1 24X24 4.00			DOUBLE DOWN ARROW (SYMBOL)	CONST-8					WORK ZONE NO PHONE ZONE	†			[ ]	ź   Z	. 4	1
WO12-2 48X48 16.0			LOW CLEARANCE (SYMBOL)							]				į /_	—	_
W012-2x 24X18 3.00			LOW CLEARANCE (PLAQUE)		1					-			F			
WO12-2a 84X24 14.0 WO12-4 120X60 50.0			OVERHEAD LOW CLEARANCE (FEET AND INCHES)  LOW CLEARANCE XX FT XX IN XX MILES AHEAD		+					-						
WO12-4 120X60 50.0			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD							1						
WO13-1 30X30 6.25			ADVISORY SPEED (PLAQUE)							]						
WO16-2 30X24 5.00			XXX FEET (PLAQUE)	-						-						
WO16-3 30X24 5.00 WO20-1 48X48 16.0			X MILE (PLAQUE) ROAD/BRIDGE/RAMP WORK AHEAD		+					1						
WO20-2 48X48 16.0			DETOUR AHEAD							1						
WO20-3 48X48 16.0			ROAD CLOSED AHEAD	616-10			TOTAL			_						
WO20-4 48X48 16.0 WO20-5 48X48 16.0			ONE LANE ROAD AHEAD RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10		ON SIG	iNS   414	TOTAL								
WO20-5 48X48 16.0 WO20-5a 48X48 16.0			2 RIGHT/CENTER/LEFT LANE CLOSED AHEAD	RELOCA		SIGNS		0								
WO20-6a 48X48 16.0			RIGHT/CENTER/LEFT LANE CLOSED													
WO20-7a 48X48 16.0			FLAGGER (SYMBOL)													
WO21-2 36X36 9 00 WO21-5 48X48 16.0			FRESH OIL SHOULDER WORK / SHOULDER WORK AHEAD	-												
WO22-1 48X48 16.0			BLASTING ZONE AHEAD	1								SUMMARY OF QUANTITIES				
WO22-2 42X36 10.5	0		TURN OFF 2-WAY RADIO AND PHONE	]								SHEET 2 OF 2				
WO22-3 42X36 10.5			END BLASTING ZONE	-												
GO22-1   21X15   2.19	'		WET PAINT (ARROW PIVOTS)	J												

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.

DETAIL A

# MO 152 & I-29 NORTH





THANKAM MATHEW CIVIL MO PE-2014000056 DATE PREPARED 2/4/2025

ROUTE STATE VAR MO DISTRICT SHEET NO. KC 3

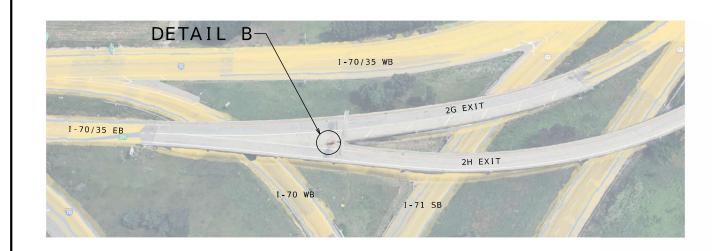
COUNTY VAR IOUS JOB NO. JKU0113

CONTRACT ID.

PROJECT NO.

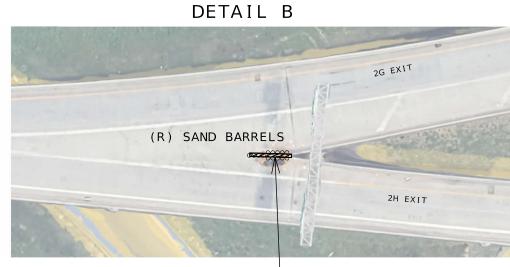
BRIDGE NO.

# I-70/35 EB EXIT 2G AND 2H



WB MO 152

EB MO 152



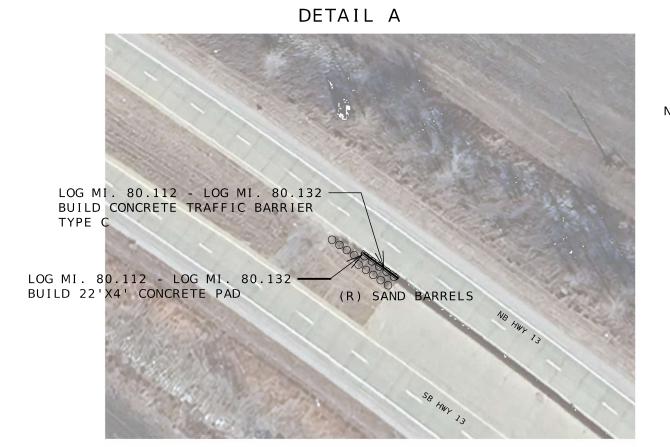
LOG MI.3.917 - LOG MI.3.937 —— BUILD MASH TYPE C CRASHWORTY END TERMINAL

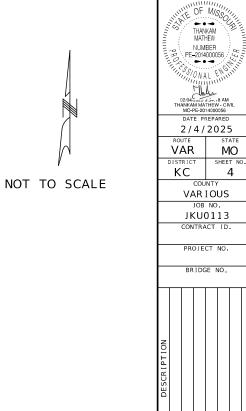
> PLAN SHEET SHEET 1 OF 3

# MACOURI HIGHWAYS AND TRANSPORTATION DA COMMISSION MACOOT 105 WEST CAPITOL 106 WEST CAPITOL 107 WOOD STAN WOOD STAN OF STAN

# HWY 13 NB A5664 BRIDGE







MO 9 S/O 3RD ST EXIT



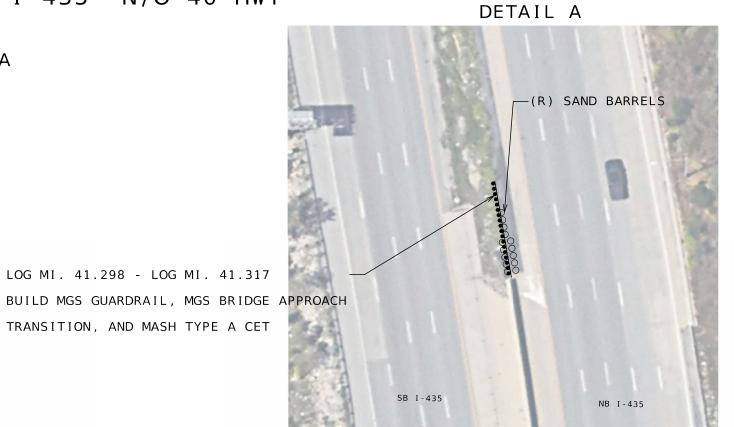


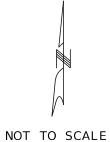


DETAIL B-

# I-435 N/O 40 HWY

-DETAIL A



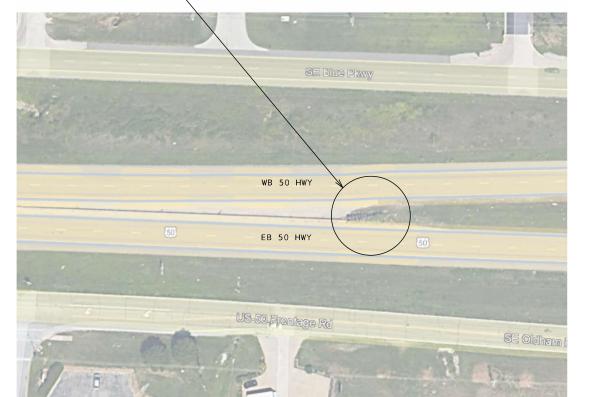


2/4/2025

ROUTE VAR KC SHEET NO

VARIOUS

JOB NO.
JKU0113
CONTRACT ID.

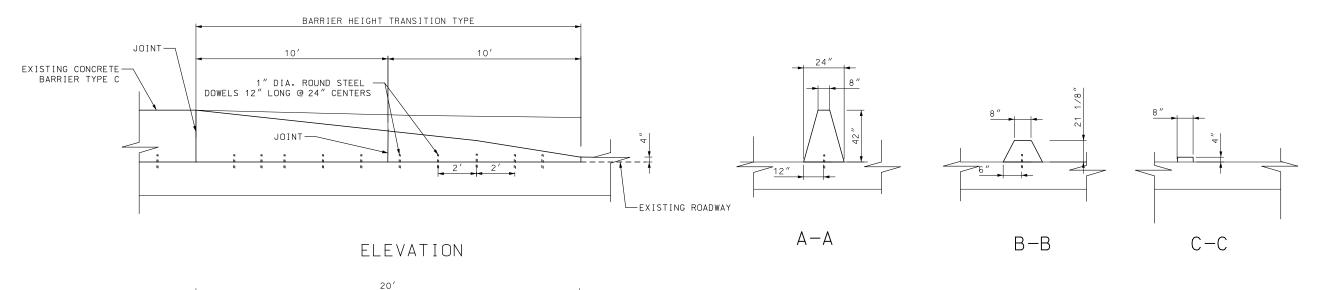


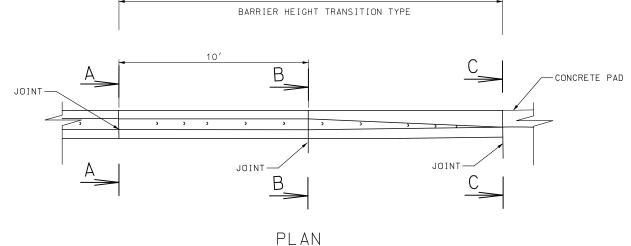
# 50 HWY E/O HWY 291



# DETAIL B

PLAN SHEET SHEET 3 OF 3





NOTES:

SAWED JOINTS SHALL BE LOCATED AT PAVEMENT TRANSVERSE JOINTS

COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR THE COMPLETE IN PLACE INSTALLATION OF BARRIER HEIGHT TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR 'CONCRETE TRAFFIC BARRIER TYPE C'

TYPE C PERMANENT CONCRETE BARRIER HEIGHT TRANSITION

DRAWINGS NOT TO SCALE

THANKAM MATHEW NUMBER 2/4/2025 VAR MO KC 6 VARIOUS JOB NO. JKU0113 CONTRACT ID. PROJECT NO. BRIDGE NO.

CONCRETE TRAFFIC BARRIER TYPE C SPECIAL SHEET SHEET 1 OF 1

# Traffic Control Legend, Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

SIGN SP	ACING FOR A	DVANCE SIGN SERIES (1) (2)				
PERMANENT						
POSTED SPEED	UNDIVIDED	DIVIDED				
MPH	HIGHWAYS (S)	HIGHWAYS (S)				
0-35	200′	200′				
40-45	350′	500′				
50-55	500′	1000′				
60-70 1000'		SA - 1000' SB - 1500' SC - 2640'				

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER										
PERMANENT	PERMANENT									
POSTED SPEED	MINIMUM LANE									
MPH	10′	11′	12′	END TREATMENT (4)						
<40	160′	168′	176′	BARRIER HEIGHT TRANSITION						
>40	160′	168′	176′	APPROVED CRASH CUSHION						

TAPER LENGTHS AND SPACING FOR CHANNELIZERS												
PERMANENT				MINIMUM SHOULDER	BUFFER	MAXIMUM CHANNELIZER SPACING						
POSTED SPEED	MINIMUM LAN	NE TAPER LENGT	H (L) (3)	TAPER LENGTH (T1)	LENGTH	THROUGH	THROUGH					
MPH	10′	11′	12′	BASED ON 10' SHOULDER	FT	TAPER	WORK AREA					
0-35	205′	225′	245′	70′	280′	35′	40′					
40-45	450′	495′	540′	150′	400'	40′	80′					
50-55	550′	605 <i>′</i>	660′	185′	560′	50′	80′					
60-70	700′	770′	840′	235 ′	840′	60′	120′					

\*\* THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

### DETAILS NOTES:

- SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

# TRAFFIC CONTROL LEGEND

### TAPER LENGTH (L)

- L = W X P FOR 40 MPH OR MORE
- $\frac{\text{WP}^2}{60}$  FOR 35 MPH OR LESS
- L = TAPER LENGTH IN FEET
- W = LATERAL SHIFT IN FEET
- P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

### SIGN (SINGLE SIDED)

FLAGGER

CHANNELIZER

FLASHING ARROW PANEL

CHANGEABLE MESSAGE BOARD

BARRICADE

PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW PANEL AND REAR-MOUNTED

### LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

## **GENERAL NOTES:**

- 1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
- 2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- 3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- 4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ON MINOR ROUTES ONLY.
- 5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

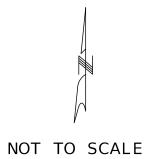
### EPG TABLE 616.12 RECOMMENDED MAXIMUM SPEED REDUCTIONS ACTIVITY (I.E. WORKERS, EQUIPMENT RECOMMENDED WORK ZONE SPEED OR MATERIAL) LOCATION REDUCTION (WHEN APPLICABLE) 10 FT. BEYOND EDGE OF TRAVELWAY NO SPEED REDUCTION TO EDGE OF RIGHT OF WAY IN TRAFFIC LANE OR WITHIN 10FT. 10 MPH OF THE TRAFFIC LANE HEAD-TO-HEAD ON MULTILANE 10 MPH

SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.

> TRAFFIC CONTROL SHEET SHEET 1 OF 6

THANKAM MATHEW 2/4/2025 VAR MO 7 KC **VARIOUS** LOB NO JKU0113 CONTRACT ID. PROJECT NO. BRIDGE NO.





# MO 9 S/O 3RD ST EXIT



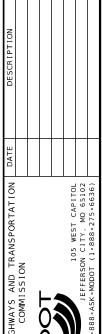
# I-70/35 EXIT 2G & 2H



NOTE:
COORDINATE WITH ENGINEER FOR CMS MESSAGE AND LOCATION

LEGEND:

CHANGEABLE MESSAGE BOARD



2/4/2025

VARIOUS JOB NO.

JKU0113

CONTRACT ID.

PROJECT NO.

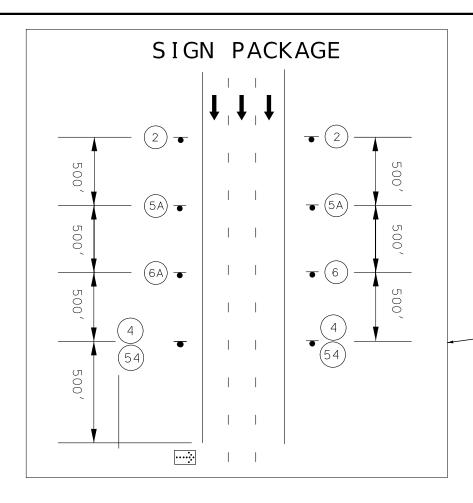
MO

8

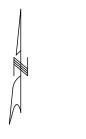
VAR

KC

CMS BOARD LOCATIONS I-70/35 & MO 9 TRAFFIC CONTROL SHEET SHEET 2 OF 6







NOT TO SCALE

THANKAM MATHEW 2/4/2025 VAR MO KC 9 **VARIOUS** JKU0113 CONTRACT ID. PROJECT NO. BRIDGE NO.

LANE CLOSED OR **LEFT** W020-6a RIGHT LANES ROAD WORK CLOSED AHEAD BRIDGE AHEAD (LEFT) RAMP W020-5a SPEED WORK ZONE

LIMIT 45

CHANNELIZERS BARRICADE

### NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SEE TRAFFIC CONTROL SHEET 2 OF 6 FOR CMS BOARD LOCATIONS.

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

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

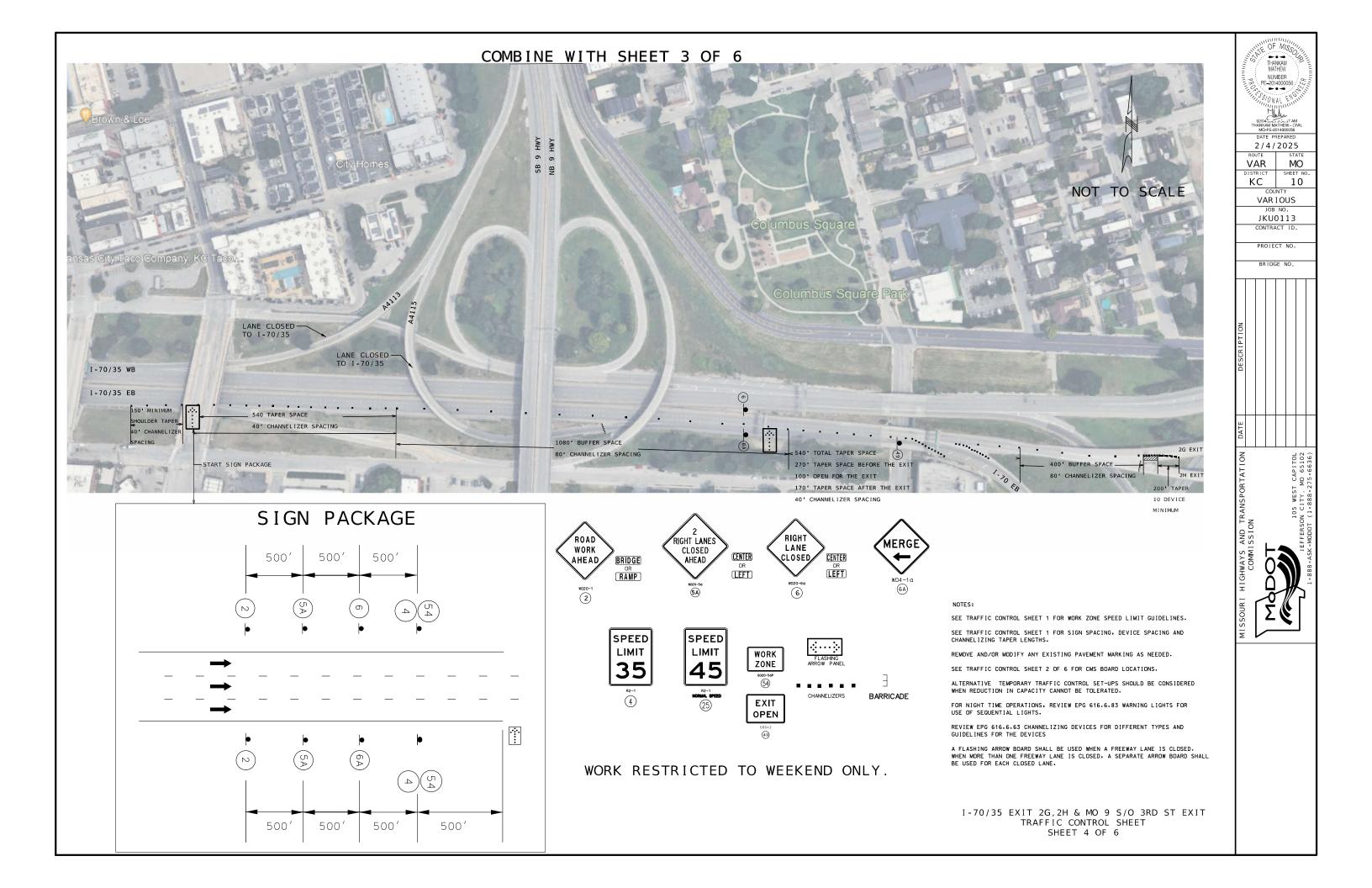
FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAG AND ADVANCE WARNING RAIL SYSTEM.

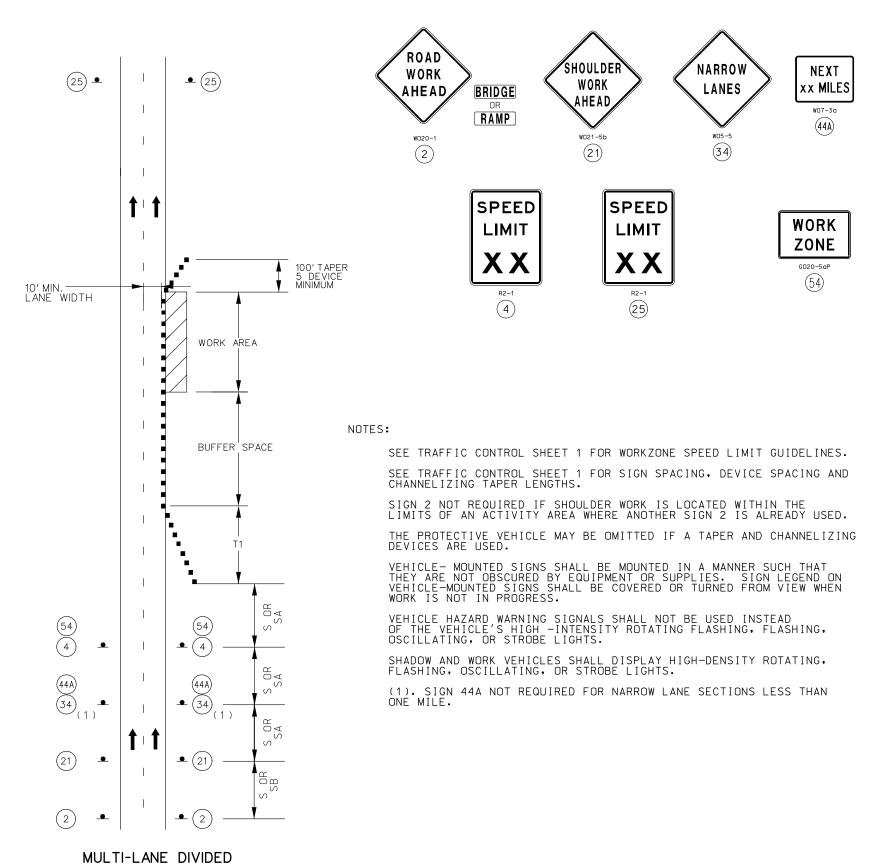
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

WORK RESTRICTED TO WEEKEND ONLY.

COMBINE WITH SHEET 4 OF 6

MO 9 S/O 3RD ST & I-70/35 EXIT TRAFFIC CONTROL SHEET SHEET 3 OF 6





SHOULDER WORK

MINOR TRAVELWAY ENCROACHMENT

I-435 N/O 40 HWY & 50 HWY E/O 291 TRAFFIC CONTROL SHEET SHEET 5 OF 6 THANKAM MATHEW NUMBER PE-2014000056

2/4/2025

JOB NO.
JKU0113
CONTRACT ID.

PROJECT NO.

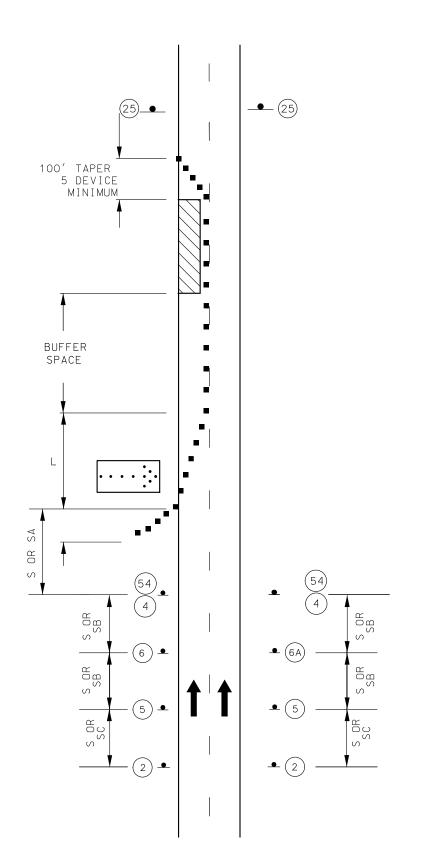
BRIDGE NO.

MO

11

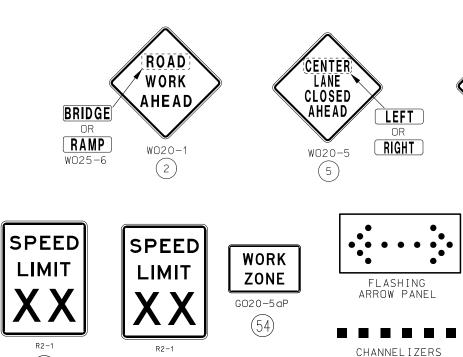
VAR

KC



TWO-LANE DIVIDED HIGHWAY

TA-33



NOTES:

(4)

NORMAL SPEED

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

RIGHT

LANE

CLOSED

W020-6a

(6)

(LEFT)

MERGE

WO4-1a

(6 A)

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PREFORMED 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 SIGN 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 TA-34 LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER.

REVIEW EPG TA-34g LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTIONS.

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

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 SYSTEM, REFER TO EPG 616.6.2.2 FLAG AND ADVANCE WARNING RAIL SYSTEM.

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

NB I-29 / MO 152 & NB 13 HWY A5664 BRIDGE TRAFFIC CONTROL SHEET SHEET 6 OF 6

	HHIIIIIIIIIII	THE PROPERTY	PE- PE- PE- PE- PE- PE- PE- PE- PE- PE-	THAN MATH	BER 0000	556 77 AM 77 - CIV	NI BESTILL	THILIMM.			
	DATE PREPARED 2/4/2025 ROUTE STATE										
		ROI	٩R		STATE MO						
		N K	RIC C	Т	SHEET NO. 12						
	COUNTY VAR I OUS										
	JOB NO. JKU0113 CONTRACT ID.										
	PROJECT NO.  BRIDGE NO.										
	DESCRIPTION										
	DATE										
	HIGHWAYS AND TRANSPORTATION	COMMISSION				105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)			