## DESIGN DESIGNATION ROUTE V

A.A.D.T. - 2025 = 342A.A.D.T. - 2035 = 360 T = 10.53%V = 55/20 M.P.H.

FUNCTIONAL CLASSIFICATION-MINOR COLLECTOR

NO NEW R/W REQUIRED

## 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	
MANHOLE	D <sub>MYD</sub>	€
FIRE HYDRANT	wv C	j
WATER VALVE	wr4	€
WATER METER	₽""	)
DROP INLET	Ï	
DITCH BLOCK	=	<u> </u>
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		]
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED \ \ \	<i>'</i> ——
BENCHMARK	ВМ	)

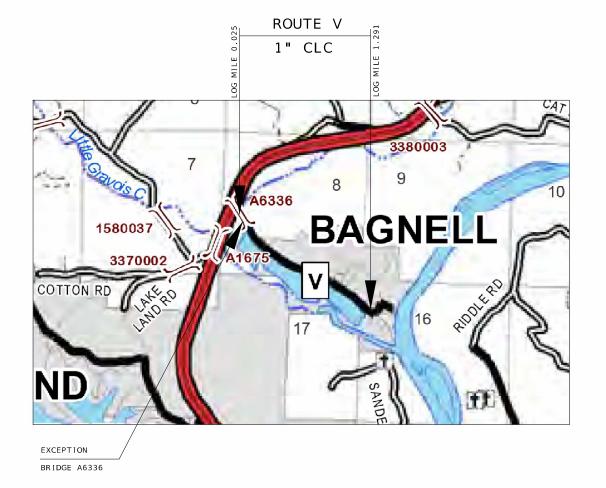
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY



## MILLER COUNTY



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
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
SPECIAL SHEETS (SS)	4
TRAFFIC CONTROL SHEETS (TC)	5 - 11

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	MO-PE-2006019679  DATE PREPARED  7/29/2024								
	ROUTE STATE V MO								
	C	ric D	Т	9		т NG 1	٠.		
		Μ	cou I L	LE	R				
			JOB JOB						
		CON	ITRA	СТ	ID	•			
		PRO	OJE	СТ	NO.				
		BR	IDG	E 1	VO.				
ESCRIPTION									

## LENGTH OF PROJECT ROUTE V

BEGINNING OF PROJECT LOG MILE 0.025
END OF PROJECT LOG MILE 1.291

APPARENT LENGTH 6684.48 FEET

EQUATIONS AND EXCEPTIONS:

BRIDGE A6336 (CONCRETE SEGMENT)

LOG MILE 0.025 TO LOG MILE 0.129

LENGTH 549.12 FEET

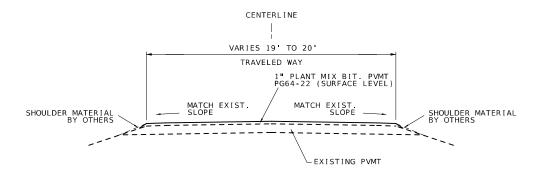
TOTAL CORRECTIONS 549.12 FEET

NET LENGTH OF PROJECT 6135.36 FEET

STATE LENGTH 1.162 MILES

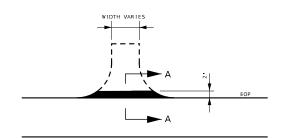
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES 0 ACRES



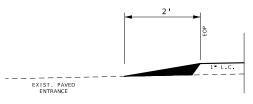


# TYPICAL SECTION ROUTE V

LOG MILE 0.129 TO LOG MILE 1.291

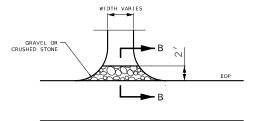


TYPICAL ENTRANCE

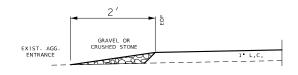


SECTION A-A

TYPICAL PAVED ENTRANCE



TYPICAL ENTRANCE



SECTION B-B

TYPICAL AGGREGATE ENTRANCE (TAPER 1:1 AT FIELD ENTRANCES)

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/YD <sup>3</sup>
TACK COAT-OVERLAY	.08 GAL/YD <sup>2</sup>
TACK COAT-COLMILLING	.10 GAL/YD <sup>2</sup>



7/29/2024

ROUTE MO SHEET NO. CD 2

MILLER

JOB NO.
JCD0148
CONTRACT ID.

PROJECT NO.





		GRA	VEL (A	), CRU	SHED STONE	(B)	
APPROX.						GRAVEL, CRUSHED	
LOG MILE			LENGTH	WIDTH	THICKNESS	STONE	
FROM	ТО	LOCATION	(FT)	(FT)	(IN (AVG.))	(TON)	REMARKS
0.025	1.291	ROUTE V LT. & RT.	395	2	1.00	45.00	GRAVEL ENTRANCES
					TOTAL	45.00	
					USE	45	

					BITUMI	NOUS PAVEN	IENT QUA	NTITIES
APPROX.				AVG.		SURF. LEVEL		
LOG MILE			LENGTH	WIDTH	DEPTH	PG 64-22	TACK	
FROM	TO	LOCATION	(FT)	(FT)	(IN)	(T)	(GAL)	REMARKS
0.129	1.291	ROUTE V	6,135.36	20.00	1.00	752.53	1,090.73	FROM CONCRETE AT BRIDGE A6336 TO SME
0.129	1.291	ROUTE V	105.00	2.00	1.00	1.29	1.87	PAVED ENTRANCES
						15.05		2% SAFETY EDGE
						150.51		20% FOR IRREGULARITIES (OVERLAY AREAS)
					TOTAL	010 20	1 000 60	
					TOTAL USE	919.38 919.4	1,092.60	SEE TYPICAL SECTION SHEET FOR ESTIMATE FACTORS

			PAVE	MENT MARKING		
				WATERBORNE	PAVEMENT	
				MARKING PAINT,	TYPE P BEADS	
				4"	4"	1
APPROX.				INT.	SOLID	
LOG MILE			LENGTH	YELLOW	YELLOW	
FROM	ТО	LOCATION	(FT)	(FT)	(FT)	REMARKS
0.025	0.321	ROUTE V	1,562.88		3,125.76	CENTERL I NE
0.321	0.421	ROUTE V	528.00	132.0	528.00	CENTERL I NE
0.421	0.560	ROUTE V	733.92		1,467.84	CENTERL I NE
0.560	0.720	ROUTE V	844.80	211.2	844.80	CENTERL I NE
0.720	0.760	ROUTE V	211.20	52.8		CENTERL I NE
0.760	0.920	ROUTE V	844.80	211.2	844.80	CENTERLINE
0.920	1.291	ROUTE V	1,958.88		3,917.76	CENTERLINE
			TOTAL	607.20	10,728.96	
			USE	11,	336	

		MOD I I	FIED C	OLDMIL	LING (D	EPTH TRANSITIONS)
APPROX.				AVG.		
LOG MILE			LENGTH	WIDTH	QUANTITY	
FROM	TO	LOCATION	(FT)	(FT)	(SY)	REMARKS
0.129	0.133	ROUTE V	25.0	24.0	66.7	EAST END OF CONCRETE AT BRIDGE A6336
1.286	1.291	ROUTE V	25.0	24.0	66.7	SME
				TOTAL	133.40	
				USE	133	

MOB	ILIZ	ATION	
1	LUMP	SUM	

SOURI HIGHWAYS AND TRANSPORTATION	DATE	DESCRIPTION								WWWIIIIII.	
COMMISSION							C	ROI	RYA	THE PROMINI	. 1.
			BR	PR	J	Μ	D	/ / 2 UTE /	08/01 N JOS MO-	PE	1111
MODOT			IDO	DJE	CD	I L JOB		29	/2024 SEPH -PE-2	(AN LIBE NUN	()()() OF
			GE 1	СТ	01	LE		/ 2	9:37: LIBBI 00601	JOSE BERT MBER 6019	ши, М/,
105 WEST CAPITOL			VO.	NO.		R	HEE		30 AN ERT - 9679	PH	11111 SSC
JEFFERSON CITY, MO 65102								4 ATE 10	I CIVIL	III/KEEB IN	1//.
1-888-ASK-MODOT (1-888-275-6636)							).			WHITHIH WALL	

							EFFECTIVE: 07-01-2024	.www.
TOTAL OTY	/ TOTAL SIGN			ОТУ	TOTALSIGN		ETTECTIVE: 07-01-2024	WITE OF MOSTIL
	OCRELOC NUM.		SIZE AREA	QTY TOTAL RELO				RYAN JOSEPH DE
SIGN IN SQ FT EACH SQ FT EACH		SIGN		EACH SQ FT EACH		ITEM	TOTAL	☐ LIBBERT ☐
WARNING SIGNS	<del>- ! · · · · ! - · · ·  </del>	1 3101	1	GUIDE SIGNS	DESCRIPTION	NUMBER	1	NUMBER PE-2006019679
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT)	E05-1	36X48 12.00		GORE EXIT	6122008	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	THE SOLONAL ENGLISH
WO1-1R 48X48 16.00	TURN (SYMBOL RIGHT)	E05-2	48X36 12.00		EXIT OPEN	6122009		MAL
WO1-2L 48X48 16.00	CURVE (SYMBOL LEFT)	E05-2a	48X36 12.00		EXIT CLOSED	6122010	IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	08/01/2024 9:37:49 AM
WO1-2R 48X48 16.00	CURVE (SYMBOL RIGHT)	GO20-1	60X24 10.00	2 2 20 20	1 1 ROAD WORK NEXT XX MILES	6122012	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	RYAN JOSEPH LIBBERT - CIVIL MO-PE-2006019679
WO1-3L 48X48 16.00	REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24 8.00	2 2 16 16	26 2 END ROAD WORK	6122014	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	DATE PREPARED
WO1-3R 48X48 16.00	REVERSE TURN (SYMBOL RIGHT)	-	36X18 4.50		53 53PILOT CAR FOLLOW ME	6122017	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	7 / 29 / 2024 ROUTE STATE
WO1-4L 48X48 16.00	REVERSE CURVE (SYMBOL LEFT)		42X30 8.75		PILOT CAR IN USE WAIT & FOLLOW	6122019		I V MO
WO1-4R 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT)	1		5 5 7 57 5	58 58 PILOT CAR IN USE WAIT & FOLLOW	6122020		DISTRICT SHEET NO.
WO1 -4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	1	P 36X24 6.00		54 5 WORK ZONE (PLAQUE)	6122030		CD 3
WO1-4bR 48X48 16.00 WO1-4cL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)  TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4 - 8 a	24X18 3.00 48X36 12.00		END DETOUR DETOUR (LEFT)	6123001	TRUCK MOUNTED ATTENUATOR (TMA)  ADVANCED WARNING RAIL SYSTEM	COUNTY
WO1-4CE 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R	48X36 12.00		DETOUR (RIGHT)	6161012		MILLER JOB NO.
WO1-6 60X30 12.50	HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	48X12 4 00		STREET NAME (PLAQUE)	6161013		JCD0148
WO1-6a 72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	11	48X18 6.00		DETOUR ARROW (LEFT)	6161014		CONTRACT ID.
WO1-7 60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	-	48X18 6.00		DETOUR ARROW (RIGHT)	6161025		
WO1-7a 72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		'	REGULATORY SIG	GNS	6161030	TYPE III MOVEABLE BARRICADE	PROJECT NO.
WO1-8 18X24 3.00	CHEVRON (SYMBOL)	R1-1	48X48 13.25	5	STOP	6161033	DIRECTION INDICATOR BARRICADE	BRIDGE NO.
WO1-8a 30X36 7.50	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI 6.93		YIELD	6161040		J
WO3-1 48X48 16.00	STOP AHEAD (SYMBOL)	R1-2a	36X36 9.00		TO ONCOMING TRAFFIC (PLAQUE)	6161047		
WO3-2 48X48 16.00	YIELD AHEAD (SYMBOL)	R1-3P	30X12 2.50		ALL WAY (PLAQUE)	6161055	SEQUENTIAL FLASHING WARNING LIGHT	
WO3-3 48X48 16.00	SIGNAL AHEAD (SYMBOL)	R2-1	36X48 12.00		4,25 SPEED LIMIT XX (2@45,2@55)	6161070		1
WO3 - 4 48X48 16 .00	BE PREPARED TO STOP SPEED LIMIT AHEAD	R3-1	48X48 16.00		NO RIGHT TURN (SYMBOL)	6161095	RADAR SPEED ADVISORY SYSTEM	
WO3-5 48X48 16.00 WO4-1L 48X48 16.00 2 32	11 MERGE (SYMBOL FROM LEFT)	R3-2 R3-3	48X48 16.00 36X36 9.00		NO LEFT TURN (SYMBOL)  NO TURNS	6161096	CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	NO
WO4-1L 48X48 16.00 2 32	MERGE (SYMBOL FROM LEFT)  MERGE (SYMBOL FROM RIGHT)	R3-4	48X48 16.00		NO TURNS  NO U-TURN (SYMBOL)	0101030	CHANGEABLE MESSAGE SIGN W/O COMM.	<b> </b>
WO4-1aL 48X48 16.00	MERGE (LEFT)	R3-7L	30X30 6.25		LEFT LANE MUST TURN LEFT	6161098	2   I	
WO4-1aR 48X48 16.00	MERGE (RIGHT)	R3-7R	30X30 6.25		RIGHT LANE MUST TURN RIGHT		CHANGEABLE MESSAGE SIGN WITH COMM.	SCI
WO5-1 48X48 16.00	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		PASS WITH CARE	6162000	WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO5-5 48X48 16.00	NARROW LANES	R4-7a	36X48 12.00		KEEP RIGHT (HORIZONTAL ARROW)	6162002	TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48 12.00		KEEP LEFT (HORIZONTAL ARROW)		TEMPORARY TRAFFIC BARRIER	
WO6-2 48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30 6.25		DO NOT ENTER	61736000		
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24 6.00		WRONG WAY		TEMPORARY TRAFFIC BARRIER	
WO7-3a 30X24 5.00	NEXT XX MILES (PLAQUE)	R6-1L	54X18 6 75		ONE WAY ARROW (LEFT)	61736026		
WO8-1 48X48 16.00 WO8-2 48X48 16.00	BUMP DIP	R6-1R R6-2L	54X18 6.75 24X30 5.00		ONE WAY ARROW (RIGHT) ONE WAY (LEFT)	61740004		
WO8-3 48X48 16.00	PAVEMENT ENDS	R6-2R	24X30 5.00		ONE WAY (RIGHT)	01/3010	TEMPORARY TRAFFIC BARRIER	TOL 102
WO8-4 48X48 16.00	SOFT SHOULDER	R9-9	24X12 2.00		SIDEWALK CLOSED	6176000		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
WO8-5 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)	11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SIDEWALK CLOSED AHEAD,		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	RTA.
WO8-6 48X48 16.00	TRUCK CROSSING	R9-11L	24X18 3.00		(ARROW LEFT) CROSS HERE	6177000E		IO 5 .
WO8-6c 48X48 16.00	TRUCK ENTRANCE				SIDEWALK CLOSED AHEAD,	6208064	TEMPORARY RAISED PAVEMENT MARKER	VES WES
WO8-7 36X36 9.00	LOOSE GRAVEL	R9-11R	24X18 3.00		(ARROW RIGHT) CROSS HERE	9029400	TEMPORARY TRAFFIC SIGNALS	3ANS
WO8-7a 36X36 9.00	FRESH OIL / LOOSE GRAVEL	R10-6	24X36 6.00		STOP HERE ON RED (45^ ARROW)	9029401	TEMPORARY TRAFFIC SIGNALS AND LIGHTING	I F NO
WO8-9 48X48 16.00	LOW SHOULDER	R11-2	48X30 10.00		ROAD CLOSED			S I C
WO8-11 48X48 16.00 4 64	36 UNEVEN LANES				ROAD CLOSED XX MILES AHEAD			I S I S
WO8 - 12   48X48   16 . 00   4   64	35 NO CENTER LINE		60X30 12.50		LOCAL TRAFFIC ONLY			S X S
WO8-15 48X48 16.00 WO8-15P 30X24 5.00	GROOVED PAVEMENT		60X30 12.50		ROAD CLOSED TO THRU TRAFFIC			<b> </b> ≨8 <b>()1</b>
WO8-15P 30X24 5.00 WO8-17L 48X48 16.00	MOTORCYCLE (PLAQUE) SHOULDER DROP-OFF (SYMBOL LEFT)		A 60X48 20.00 X 56X12 4.67		FINE SIGN  SPEEDING/PASSING (PLATE)			
WO8-17E 48X48 16.00	SHOULDER DROP-OFF (SYMBOL RIGHT)	1 -3.	7 JUNIZ 4.07	MISCELLANEOUS		1		
WO8-17R 48X48 10.00	SHOULDER DROP-OFF (STMBOL KTGHT)	CONST - 5	48X36 12.00		61 POINT OF PRESENCE			
W10-1 42RND 9.62	RAILROAD CROSSING		96X48 32.00		POINT OF PRESENCE			<b>3) 7</b>   ĕ
WO12-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)		48X36 12.00		33 WORK ZONE NO PHONE ZONE			SSS   <b>~ ~</b>
WO12-2 48X48 16.00	LOW CLEARANCE (SYMBOL)							
W012-2x 24X18 3.00	LOW CLEARANCE (PLAQUE)							<del>-</del> -
WO12-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)							
WO12-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD							
WO12-5   120X60   50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	<u> </u>	1					
WO13-1 30X30 6 25	ADVISORY SPEED (PLAQUE)							
W016-2 30X24 5.00	XXX FEET (PLAQUE)		+					
WO16-3 30X24 5.00	X MILE (PLAQUE)	1	+					
WO20-1   48X48   16.00   4   64   WO20-2   48X48   16.00	2 ROAD/BRIDGE/RAMP WORK AHEAD DETOUR AHEAD	1						1
WO20-2 48X48 16.00 WO20-3 48X48 16.00	ROAD CLOSED AHEAD	616-10	0.05	TOTAL				1
WO20-3 48X48 16.00 WO20-4 48X48 16.00 6 96	7 ONE LANE ROAD AHEAD	-	RUCTION SI					1
WO20-4 48X48 16.00 6 96	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10		0140   000	TOTAL			1
WO20-5a 48X48 16.00	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	-	ATED SIGNS		0			1
WO20-6a 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED	1						
WO20-7a 48X48 16.00 4 64	8 FLAGGER (SYMBOL)	1						
WO21-2 36X36 9.00	FRESH OIL	]						
WO21-5 48X48 16.00	SHOULDER WORK / SHOULDER WORK AHEAD						CLIBARA D.V. O.E. CLIBARA D.V.	
WO22-1 48X48 16.00	BLASTING ZONE AHEAD	]					SUMMARY OF QUANTITIES	
WO22-2 42X36 10.50	TURN OFF 2-WAY RADIO AND PHONE	1					CUEET 2 OF 2	1

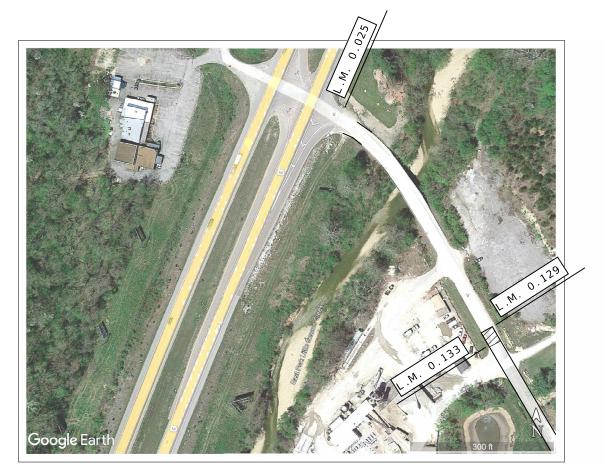
WO22-2 42X36 10.50

WO22-3 42X36 10.50 GO22-1 21X15 2.19 4 8.76

END BLASTING ZONE WET PAINT (ARROW PIVOTS)

TURN OFF 2-WAY RADIO AND PHONE

SUMMARY OF QUANTITIES SHEET 2 OF 2







ROUTE V - END ROUTE - LOG MILE 1 291



MO-PE-2006019679

DATE PREPARED

7 / 29 / 2024 ятате **МО** SHEET NO. CD COUNTY MILLER JOB NO.
JCD0148
CONTRACT ID. PROJECT NO. MODIFIED COLDMILLING

SIGN S	SPACING FOR ADV	ANCE SIGN SERIES (1) (2)
PERMANENT POSTED SPEED MPH	UNDIVIDED 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'

TAPER	LENGTHS AN	ID END TREA	TMENTS FOR	CONCRETE BARRIER
PERMANENT POSTED SPEED	MINIMUM LANE TAPER LENGTH (3)			
MPH	10′	11′	12′	END TREATMENT (4)
<40	160′	168′	176′	BARRIER HEIGHT TRANSITION
>40	160′	168′	350′	APPROVED CRASH CUSHION

## NOTES:

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

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT	MINIMUM LANE TAPER LENGTH (3)		_ENGTH (3)	MINIMUM SHOULDER	BUFFER	MAXIMUM CHANNELIZER SPACING	
POSTED SPEED		(T2)		TAPER LENGTH	LENGTH	THROUGH	THROUGH
MPH	10′	11′	12′	BASED ON 10' SHOULDER (T1)	FT. (B)	TAPER	WORK AREA
0-35	205′	225′	245′	70′	400′	35′ <del>*</del>	40′ <del>*</del>
40-45	450′	495′	540′	150′	400′	40′ <del>*</del>	80′ <del>*</del>
50-55	550′	605′	660′	185′	560′	50′ <del>**</del>	80′ <del>**</del>
60-70	700′	770′	840′	235′	840′	60′ <del>**</del>	120′ <del>**</del>

ROADWAY TYPE	S I GN HE I GHT	MAX. WURK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MILE
RURAL DIVIDED	1' PORTABLE 7' POST	2 MILE
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MILE

#### TRAFFIC CONTROL LEGEND

•	SIGN	(SINGLE	SIDEDI

■ SIGN (DOUBLE SIDED)

- ▲ CONE
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKER
- MOVABLE BARRICADE (PLAN VIEW)
- CHANGEABLE MESSAGE BOARD

\_\_\_\_\_ TRAFFIC BARRIER (PLAN VIEW)

TRAFFIC BARRIER (SECTION VIEW)

HIGH-LEVEL WARNING DEVICE (FLAG TREE)

OR SHORT - TERM OR LONG-TERM RUMBLE STRIPS



WORK SPACE



ADVANCE WARNING RAIL SYSTEM



FLASHING ARROW PANEL



FLASHING ELECTRIC LIGHT



IMPACT ATTENUATOR ARRAY (SAND BARRELS)



MOVABLE BARRICADE (SIDE VIEW)



OBJECT MARKER - TYPE I

OBJECT MARKER - TYPE II



OBJECT MARKER - TYPE III



O LUMINAIRE



TMA - TRUCK MOUNTED ATTENUATOR



CRASH CUSHION



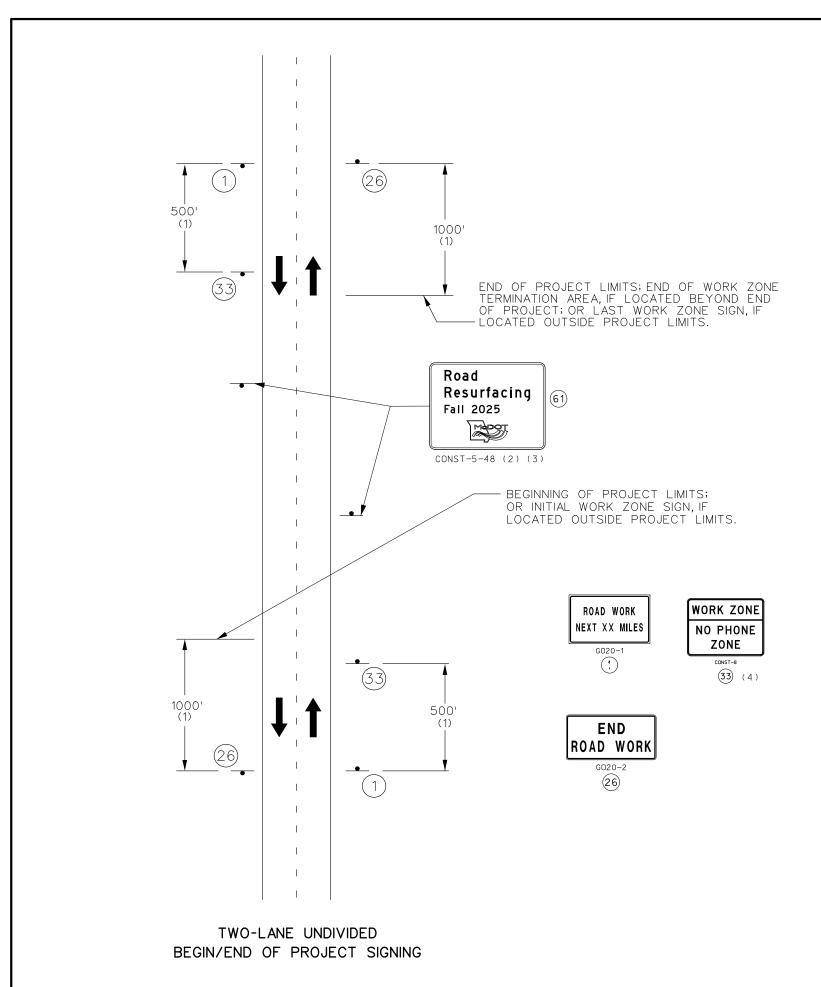
TRAFFIC OR PEDESTRIAN SIGNAL

TEMPORARY TRAFFIC CONTROL SHEET SPACING AND TAPER LENGTHS FOR WORK ZONES, CHANNELIZERS AND CONCRETE BARRIER TRAFFIC CONTROL LEGEND SHEET 1 OF 7

RYAN JOSEPH LIBBERT NUMBER 7/29/2024 V MO SHEET NO CD 5 MILLER JCD0148 CONTRACT ID. PROJECT NO.

<sup>\*</sup> SPACING REDUCED TO 1/2 AT INTERSECTIONS.

<sup>\*\*</sup> SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.



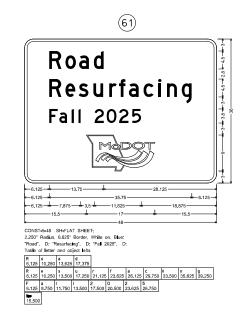
#### NOTES:

SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

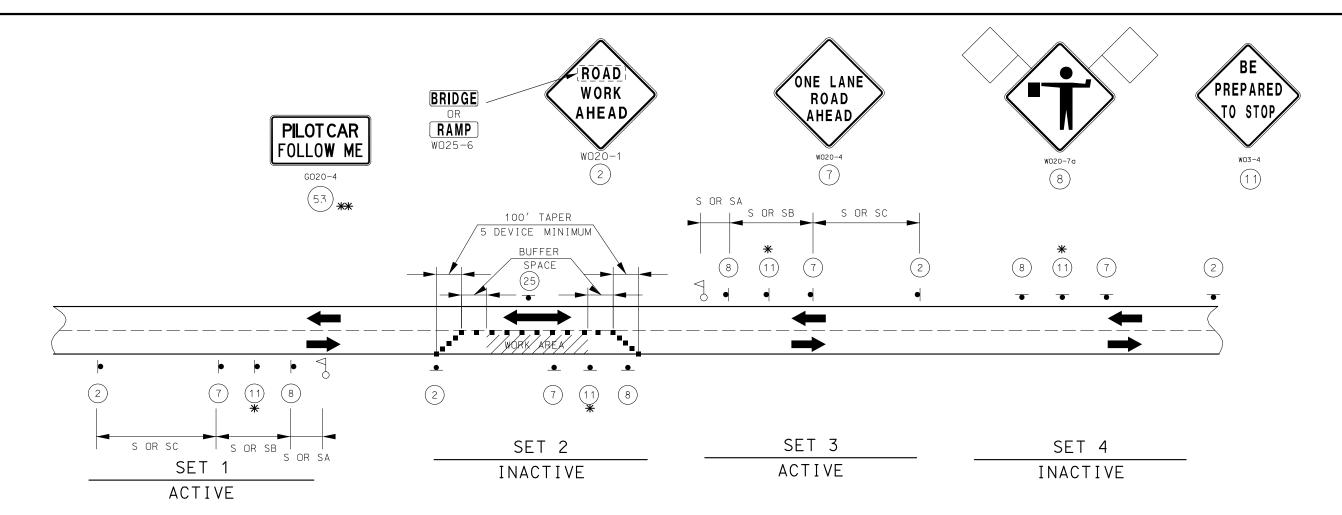
- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) SIGN CONST-5-48 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.
- (3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITION. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
- (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.





TEPORARY TRAFFIC CONTROL SHEET BEGIN / END PROJECT SIGNING 2-LANE UNDIVIDED SHEET 2 OF 7

RYAN JOSEPH LIBBERT NUMBER PE-20 08/01/2024 9:38:59 AM RYAN JOSEPH LIBBERT - CIVIL MO-PE-2008012027 7/29/2024 V MO SHEET NO CD 6 MILLER JCD0148 CONTRACT ID. PROJECT NO.



- FLAGGER

CHANNELIZERS

## **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 ONLY.
- 5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

#### NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10'OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES, SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

TRAFFIC).

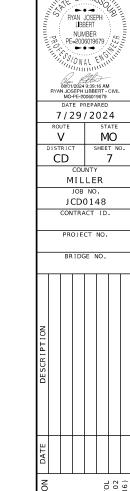
SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING

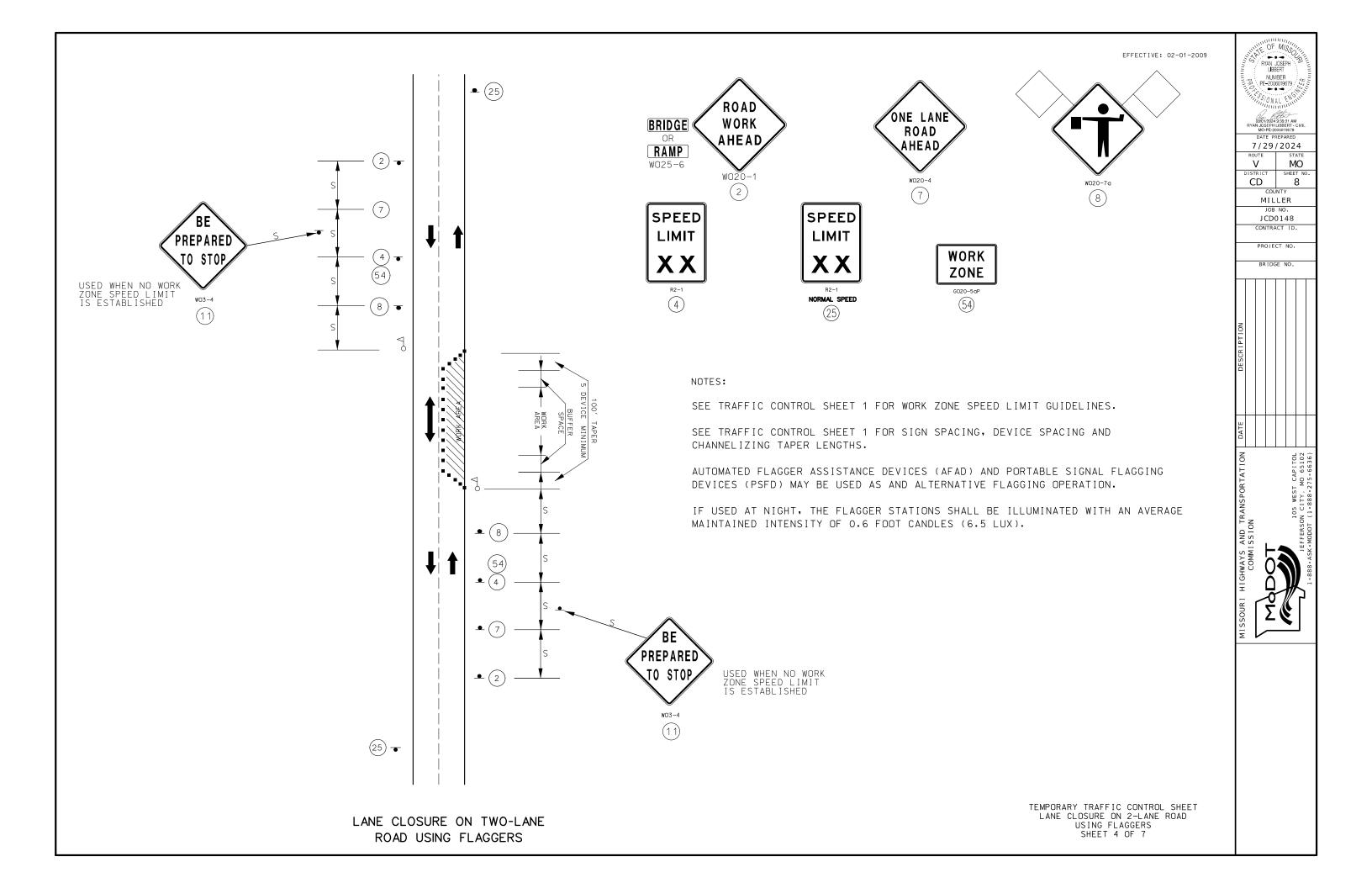
WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SET 2 AND 4, SIGN SET 2 AND 4 BECOME ACTIVE (I.E. NEW SIGN SET 1 AND 3) AND SIGN SET 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E. NEW SIGN SET 2 AND 4).

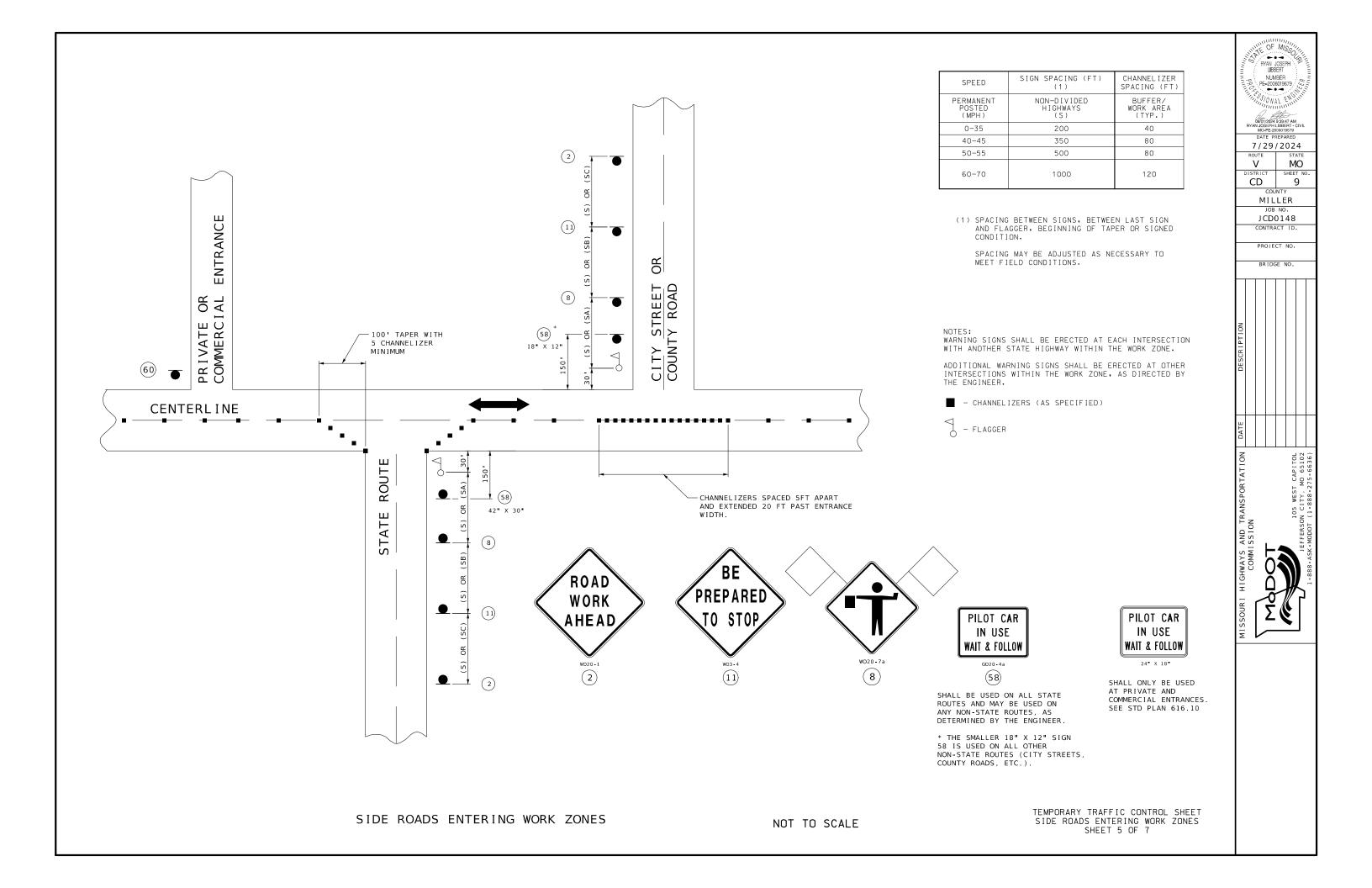
- \* THIS SIGN IS INSERTED BETWEEN SIGNS 7 & 8 WITH THE SPACING OF 1/2 THE STANDARD SPACING WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED.
- \*\* THIS SIGN SHALL BE THE CONTRACTORS RESPONSIBILITY WHEN IN USE DURING OPERATION.

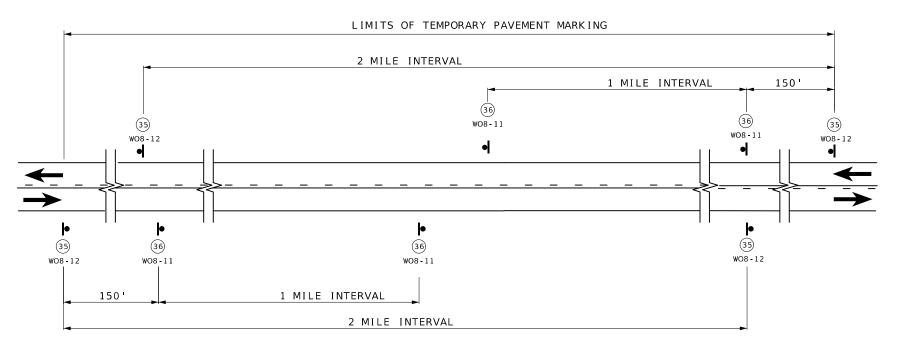
TEMPORARY TRAFFIC CONTROL SHEET FLAGGER CONTROL RESURFACING OR MOVING OPERATION 1 LANE - 2 WAY OPERATION WITH SIGN SPACING SHEET 3 OF 7



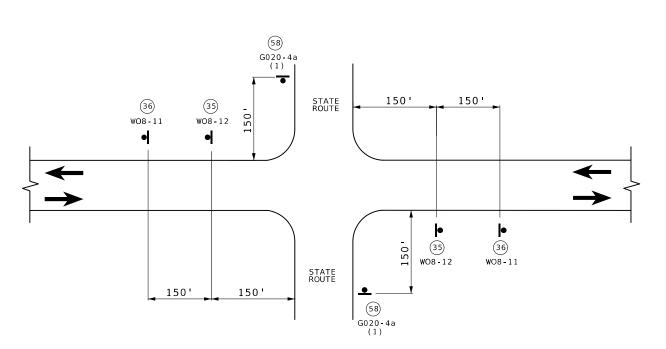








SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



# SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.





NOTES:

NOT TO SCALE

PILOT CAR

IN USE

WAIT & FOLLOW

GO20-4a

58

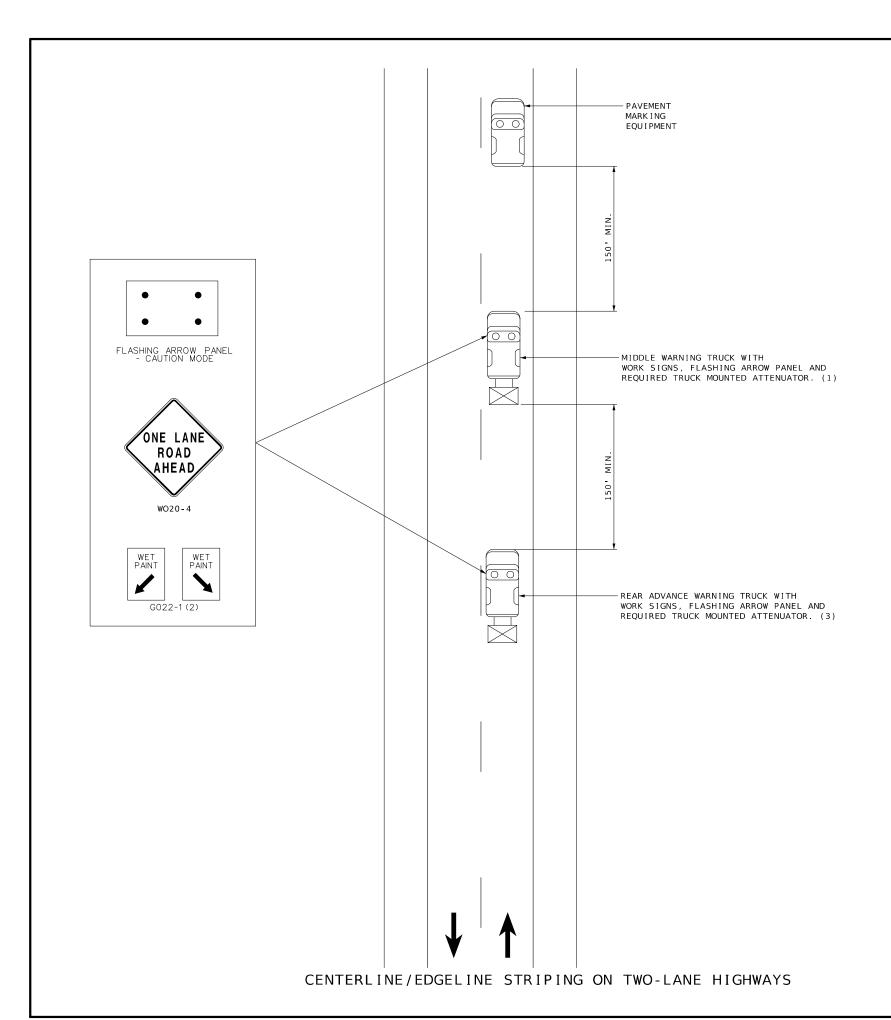
SIGN 35 AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35 , THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN  $616.10\,$  AND 903.03.

TEMPORARY TRAFFIC CONTROL SHEET SIGN SPACING FOR TEMPORARY STRIPING SHEET 6 OF 7

RYAN JOSEPH LIBBERT NUMBER 7/29/2024 MO CD 10 MILLER JCD0148 CONTRACT ID. PROJECT NO.



#### NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
- (2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.
- (3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

OF M/SO RYAN JOSEPH UBBERT NUMBER PE-2006019679

DATE PREPARED 7/29/2024

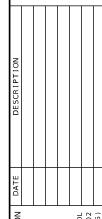
ROUTE STATE
V MO
DISTRICT SHEET NO
CD 11

MILLER

JCD0148 CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MODOT

105 WEST CA

JEFFERSON CITY, MO

TEMPORARY TRAFFIC CONTROL SHEET CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS SHEET 7 OF 7