

DESIGN DESIGNATION

A.A.D.T. - 2025 = 7,700
A.A.D.T. - 2035 = 8,700
D.H.V. = 1,500
T = 10%
V = 55 & 60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

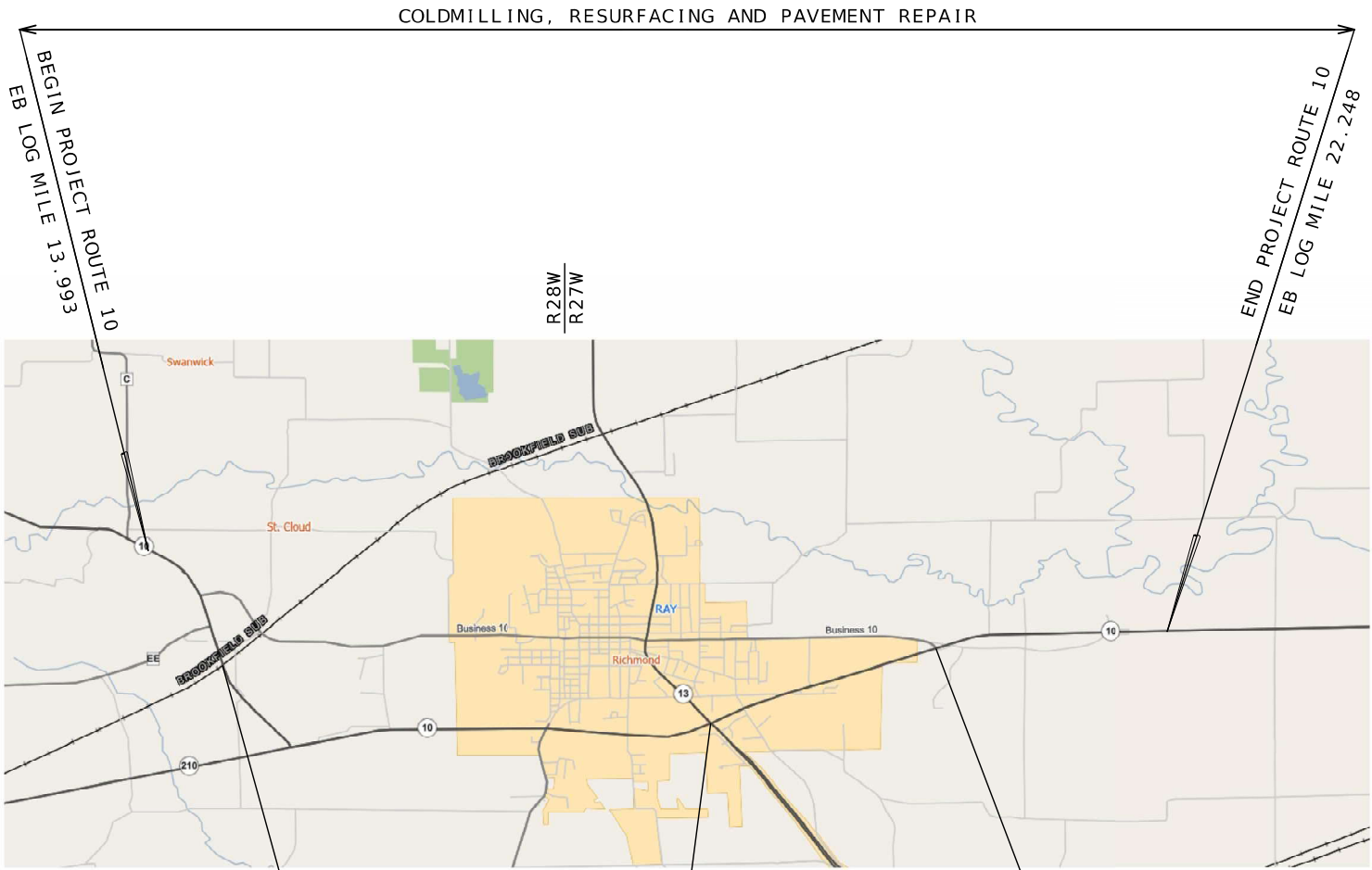
NO R/W ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
RAY COUNTY



BR A3072 EXCEPTION
LOG MILE 15.193 TO
LOG MILE 15.236

BR A3077 EXCEPTION
LOG MILE 19.056 TO
LOG MILE 19.113

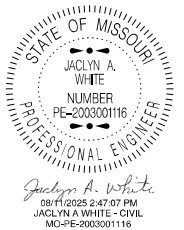
BUS. 10 INTERSECTION
EXCEPTION
LOG MILE 20.752 TO
LOG MILE 20.837

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) (3 SHEETS)	2
QUANTITIES (QU) (11 SHEETS)	3
SPECIAL SHEETS (SS)	4-20
TRAFFIC CONTROL SHEETS (TC)	21-35



DATE PREPARED 8/11/2025	
ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 1
COUNTY RAY	
JOB NO. JKR0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

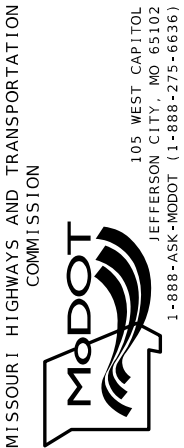
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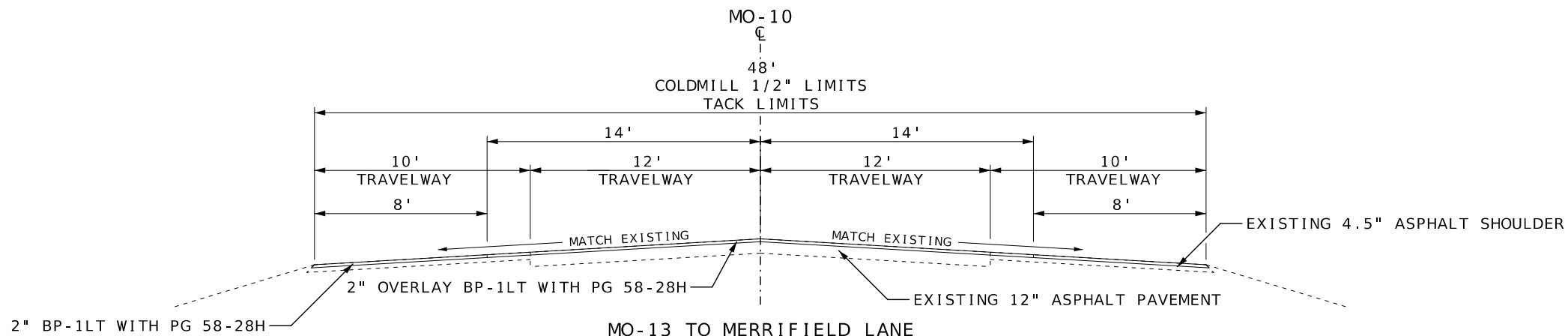
LENGTH OF PROJECT

BEGINNING OF PROJECT	EB LOG MI.	13.993
END OF PROJECT	EB LOG MI.	22.248
APPARENT LENGTH		43,586 FEET
EQUATIONS AND EXCEPTIONS:		
BRIDGE A3072		227 FEET
BRIDGE A3077		301 FEET
BUSINESS 10 INTERSECTION		449 FEET

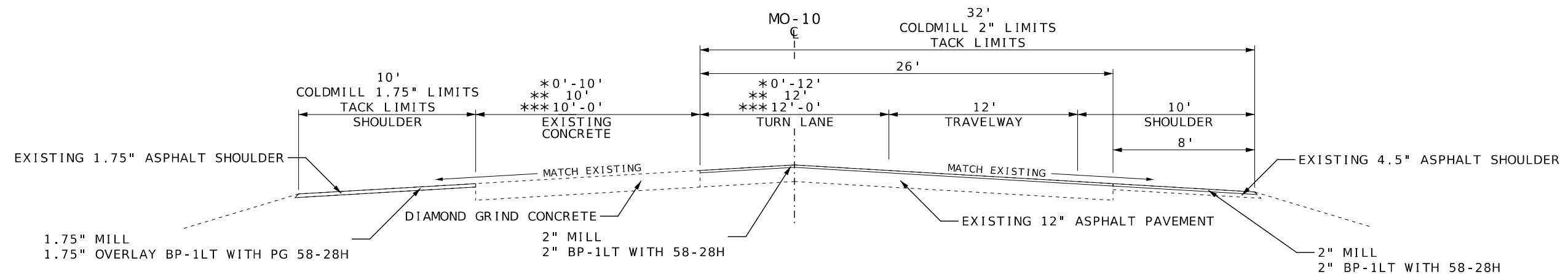
TOTAL CORRECTIONS	977 FEET
NET LENGTH OF PROJECT	42,609 FEET
STATE LENGTH	8.07 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES
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MO-13 TO MERRIFIELD LANE
EB LOG MILE 18.942 TO 19.048 BR. APPROACH
EB LOG MILE 19.113 BR. APPROACH TO 19.670
EB LOG MILE 19.978 TO 20.752 CONC. INTERSECTION
EB LOG MILE 19.121 CONC. INTERSECTION TO 22.248



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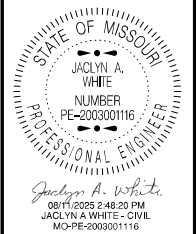
*EB LOG MILE 19.670 TO 19.771
**EB LOG MILE 19.771 TO 19.880
***EB LOG MILE 19.880 TO 19.978

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ESTIMATE FACTORS - FOR INFORMATION PURPOSES ONLY	
SP095C PG70-22	1.978 TONS/CY
BP-2 PG64-22	1.987 TONS/CY
BP-1LT W/ PG58-28H	2.001 TONS/CY
TACK COAT	0.08 GAL/SQ YD

NOT TO SCALE

TYPICAL SECTIONS
SHEET 2 OF 3



DATE PREPARED	
8/11/2025	
ROUTE	STATE
10	MO
DISTRICT	SHEET NO.
KC	2
COUNTY	
RAY	
JOB NO.	
JKR0077	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

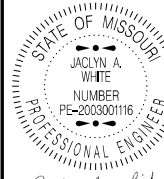
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



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JACLYN A WHITE - CIVIL
MO-PE-2003001116



08/11/2025 2:48:51 PM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE
10

STATE
MO

DISTRICT
KC

SHEET NO.
2

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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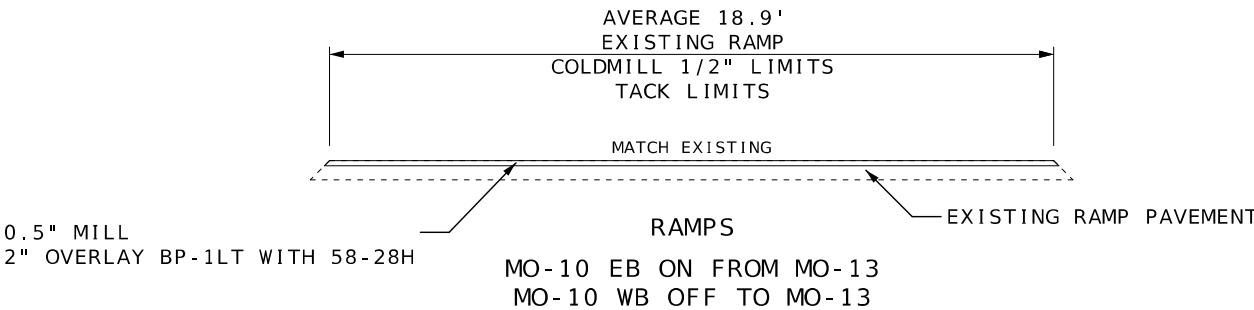
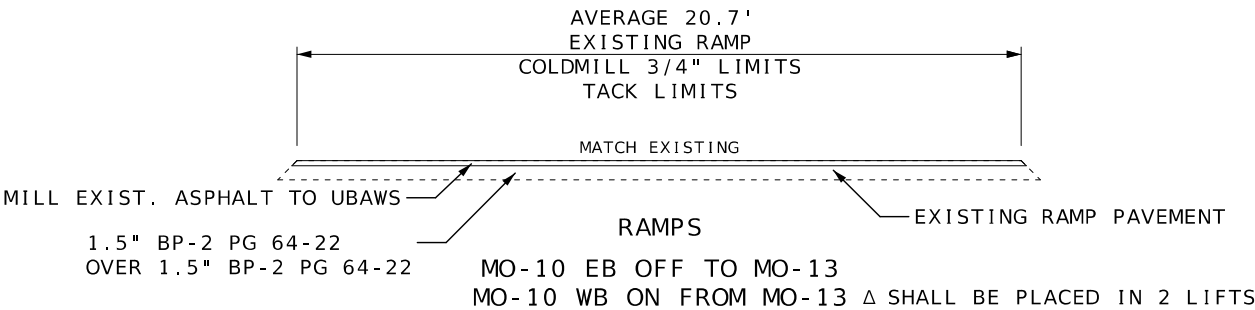
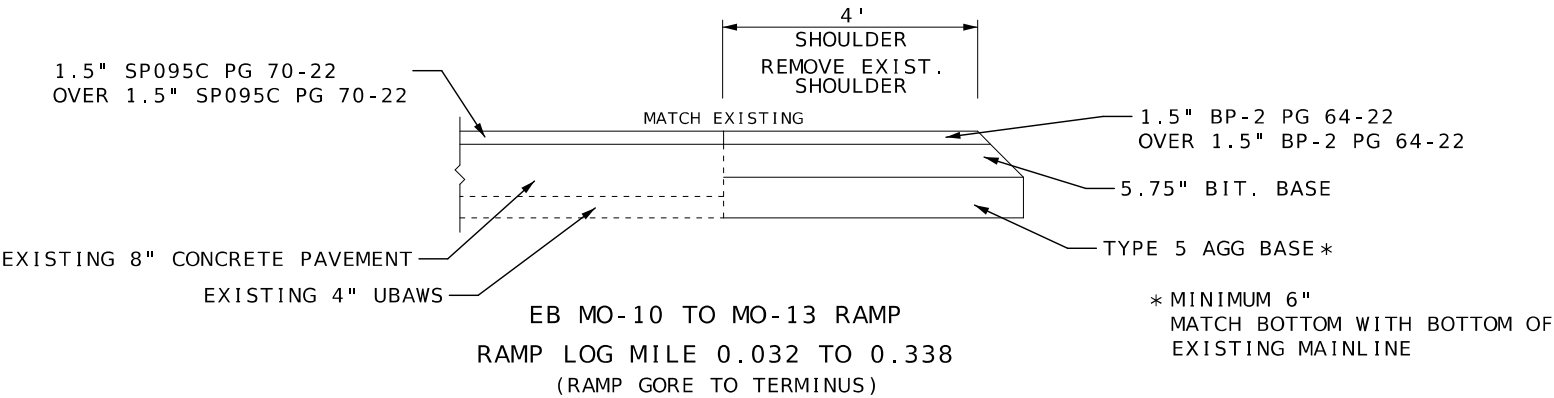
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RAMP SHOULDER RECONSTRUCTION



ESTIMATE FACTORS - FOR INFORMATION PURPOSES ONLY	
SP095C PG70-22	1.978 TONS/CY
BP-2 PG64-22	1.987 TONS/CY
BP-1LT W/ PG58-28H	2.001 TONS/CY
TACK COAT	0.08 GAL/SQ YD

NOT TO SCALE

PAVEMENT MARKING QUANTITIES														
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	6 IN. WHITE CLASS 2 PVMT MARK. PAINT (TYPE L BEADS) (LF)	4 IN. YELLOW CLASS 2 PVMT MARK. PAINT (TYPE L BEADS) DOUBLE SOLID YELLOW (LF)	4 IN. YELLOW CLASS 2 PVMT MARK. PAINT (TYPE L BEADS) SINGLE SOLID YELLOW (LF)	4 IN. YELLOW CLASS 2 PVMT MARK. PAINT (TYPE L BEADS) YELLOW INTERMITTENT (LF)	24 IN. YELLOW CLASS 1 PVMT MARK. PAINT (TYPE P BEADS) (LF)	24 IN. WHITE CLASS 1 PVMT MARK. PAINT (TYPE P BEADS) (LF)	12 IN. WHITE CLASS 2 PVMT MARK. PAINT (TYPE L BEADS) SINGLE SOLID WHITE (LF)	PREFORMED THERMO. PVMT MARK. LEFT/RIGHT ARROW (EACH)	PREFORMED THERMO. PVMT MARK. STRAIGHT ARROW (EACH)	PREFORMED THERMO. PVMT MARK. 24 IN. WHITE (LF)	PREFORMED THERMO. PVMT MARK. 12 IN. WHITE (LF)
18.538	19.056	MO 10	2735	5579	5470					562		4		
19.113	19.672	MO 10	2952	5904	5904					499				
19.672	19.798	MO 10	665	1330	2660			115					27	
19.798	19.844	MO 10	243	713	486						2			
19.844	19.855	MO 10	58	116										
19.855	19.977	MO 10	644		2576			112						
19.977	20.156	MO 10	945	1890	1890									
20.156	20.752	MO 10	3147	6294			787							
20.837	20.977	MO 10	739	1478		739	185						26	
20.977	21.137	MO 10	845	1690	1690									
21.137	21.287	MO 10	792	1584		792	198							
21.287	21.307	MO 10	106	212	212									
21.307	21.861	MO 10	2925	5850		2925	731							
21.861	22.248	MO 10	2043	4086	4086									
0	0.032	OLD BUSINESS 10	169	354	157								18	
0	0.036	ROUTE EE	190	108	142									
33.458	33.463	MO 210	26	52	26									
33.463	33.553	MO 210	475	950	1900			79						
33.553	33.619	MO 210	348	962	696						2			
0	0.037	MO 10 EB TO RTE T	195	211						211				
0.026	0.297	MO 10 EB TO RTE T	1431	1431		1431							20	
0.297	0.31	MO 10 EB TO RTE T	69	141		91								
0.006	0.028	RTE T TO MO 10 EB	116	186		109								
0.028	0.162	RTE T TO MO 10 EB	708	708		697								
0.162	0.193	RTE T TO MO 10 EB	164	164						167				
0	0.039	MO 10 WB TO RTE T	206	266						227				
0.039	0.142	MO 10 WB TO RTE T	544	544		544								
0.142	0.157	MO 10 WB TO RTE T	79	213		92								
0.002	0.016	RTE T TO MO 10 WB	74	286		112								
0.016	0.184	RTE T TO MO 10 WB	887	884		884								
0.184	0.225	RTE T TO MO 10 WB	216	220						169				
0	0.037	MO 10 EB TO MO 13	195	197						180				
0.037	0.333	MO 10 EB TO MO 13	1563	1563		1563								
0.333	0.342	MO 10 EB TO MO 13	48	163		61								133
0.004	0.015	MO 13 TO MO 10 EB	58	81		64								
0.015	0.224	MO 13 TO MO 10 EB	1104	1104		1104								
0.224	0.25	MO 13 TO MO 10 EB	137	212						203				
0.039	0.086	MO 10 WB TO MO 13	248	248						248				
0.086	0.247	MO 10 WB TO MO 13	850	850		850								
0.247	0.26	MO 10 WB TO MO 13	69	160		46								
0.006	0.02	MO 13 TO MO 10 WB	74	152		96								78
0.02	0.212	MO 13 TO MO 10 WB	1014	1014		1014								
0.212	0.275	MO 13 TO MO 10 WB	333	333						264				
SUBTOTAL 2			50483	27895	13214	1901	306	0	2730	4	4	91	211	

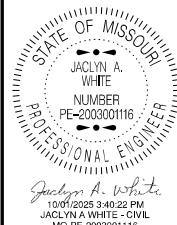
SUMMARY OF QUANTITIES
SHEET 2 OF 11

REMOVAL OF IMPROVEMENT QUANTITIES				
LOG MILE	LOG MILE	LOCATION	ITEM	QUANTITY AND UNITS
14.828	14.853	MO 10 RT & RTE EE	GUARDRAIL	950 LF
15.17	15.195	MO 10 LT	GUARDRAIL	150 LF
15.176	15.204	MO 10 RT	GUARDRAIL	150 LF
15.233	15.262	MO 10 LT	GUARDRAIL	150 LF
15.24	15.27	MO 10 RT	GUARDRAIL	150 LF
17.89	17.919	MO 10 RT	GUARDRAIL	150 LF
18.464	18.485	MO 10 RT	GUARDRAIL	100 LF
19	S CORNER BR. A3077	MO 10-MO 13 RT	END TERMINAL AND GUARDRAIL	1 EA and 25 LF
19.019	W CORNER BR. A3077	MO 10-MO 13 LT	END TERMINAL AND GUARDRAIL	1 EA and 25 LF
E CORNER BR. A3077	19.139	MO 10-MO 13 RT	END TERMINAL AND GUARDRAIL	1 EA and 25 LF
0.032	0.338	EB MO 10 TO MO 13 RAMP RT	SHOULDER	722 SY
0.032	0.338	EB MO 10 TO MO 13 RAMP RT SHOULDER	FULL DEPTH SAW CUTS FOR SHOULDER REPLACEMENT	1620 LF
73.695	73.712	MO 13 RT	SIDEWALKS AND CURB RAMPS	18.7 SY
73.798	73.816	MO 13 RT	SIDEWALKS AND CURB RAMPS	25.4 SY
0.02	0.138	WB MO 10 TO RTE T RAMP RT	GUARDRAIL	612.5 LF
0.157	0.295	EB MO 10 TO MO 13 RAMP RT	GUARDRAIL	725 LF
0.214	0.295	EB MO 10 TO MO 13 RAMP LT	GUARDRAIL	425 LF
				1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

TEMPORARY PAVEMENT MARKING PAINT
1 LUMP SUM



DATE PREPARED	
10/1/2025	
ROUTE	STATE
10	MO
DISTRICT	SHEET NO.
KC	3
COUNTY	
RAY	
JOB NO.	
JKR0077	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GUARDRAIL QUANTITIES								
LOG MILE	LOG MILE	LOCATION	MGS GUARDRAIL (LF)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)	MGS HEIGHT AND BLOCK TRANSITION (EA)	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) (EA)	MGS END ANCHOR (EA)	SHAPING SLOPES CLASS 3 (STA)
SEE SPECIAL SHEET		MO 10 RT AND RTE EE LT	850	2				10.1
15.17	NE CORNER BR. A3072	MO 10 - RR LT	37.5	1		1		1.6
15.176	NW CORNER BR. A3072	MO 10 - RR RT	62.5	1		1		1.8
SE CORNER BR. A3072	15.262	MO 10 - RR LT	62.5	1		1		1.8
SW CORNER BR. A3072	15.27	MO 10 - RR RT	37.5	1		1		1.6
17.872	17.943	MO 10 RT	275	2				4.4
18.429	18.501	MO 10 RT	275	2				4.4
19	S CORNER BR. A3077	MO 10-MO 13 RT		1	1			1.1
19.019	W CORNER BR. A3077	MO 10-MO 13 LT		1	1			1.1
E CORNER BR. A3077	19.139	MO 10-MO 13 RT		1	1			1.1
0.02	0.138	WB MO 10 TO RTE T RAMP RT	550.00	1			1	6.5
0.157	0.295	EB MO 10 TO MO 13 RAMP RT	662.5	1			1	7.6
0.214	0.295	EB MO 10 TO MO 13 RAMP LT	362.5	1			1	4.6
		SUBTOTALS	3175	16	3	4	3	48

SIGNING			
LOCATION	PIPE POST (LB)	CONCTRETE FOOTING EMBEDDED (CY)	SIGN REPLACEMENT REMOVE AND RESET (EA)
MO 10 RTE EE INTERSECTION	57.10	0.36	1
EB MO 10 OFF RAMP MO 13 INTERSECTION	57.10	0.36	1
PAYTOTAL	110	0.7	2

DIAMOND GRINDING			
LOG MILE	LOG MILE	DIAMOND GRINDING (SY)	COMMENTS
19.670	19.771	1818.1	
	PAY TOTAL	1818	

SIDEWALK						
LOG MILE	LOG MILE	LOCATION	CONCRETE SIDEWALK 4 IN. DEPTH (SY)	CURB RAMPS (SY)	TRUNCATED DOMES (SF)	COMMENTS
		EB MO10 TO MO 13 RAMP RT	11.9	3.7	10	
		EB MO10 TO MO 13 RAMP LT	5.0	4.8	10	
		MO13 TO WB MO10 RAMP RT	5.6	3.2	10	
		MO13 TO WB MO10 RAMP LT	5.6	4.3	10	
		PAY TOTAL	28.1	16	40	

GRADING				
RAMP LOG MILE	RAMP LOG MILE	LOCATION	LINEAR GRADING CLASS 1 (STA)	COMMENTS
0.032	0.338	MO 10 EB OFF RAMP TO MO 13	16.2	SHOULDER
		EB MO10 TO MO 13 RAMP RT	0.2	SIDEWALK
		EB MO10 TO MO 13 RAMP LT	0.1	SIDEWALK
		MO13 TO WB MO10 RAMP RT	0.1	SIDEWALK
		MO13 TO WB MO10 RAMP LT	0.1	SIDEWALK
		PAY TOTAL	16.7	

CURB AND GUTTER			
LOG MILE	LOG MILE	LOCATION	TYPE A CURB AND GUTTER (6" HEIGHT) (LF)
		EB MO10 TO MO13 RAMP LT	15
		PAY TOTAL	15

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

10/01/2025 3:40:54 PM

JACLYN A WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED
10/1/2025

ROUTE
10

STATE
MO

DISTRICT
KC

SHEET NO.
3

COUNTY
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JOB NO.
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BRIDGE NO.

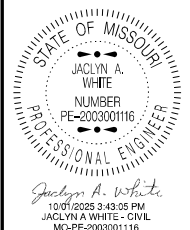
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



DATE PREPARED	
10/1/2025	
ROUTE	STATE
10	MO
DISTRICT	SHEET NO.
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COUNTY	
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DESCRIPTION									
DATE									

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

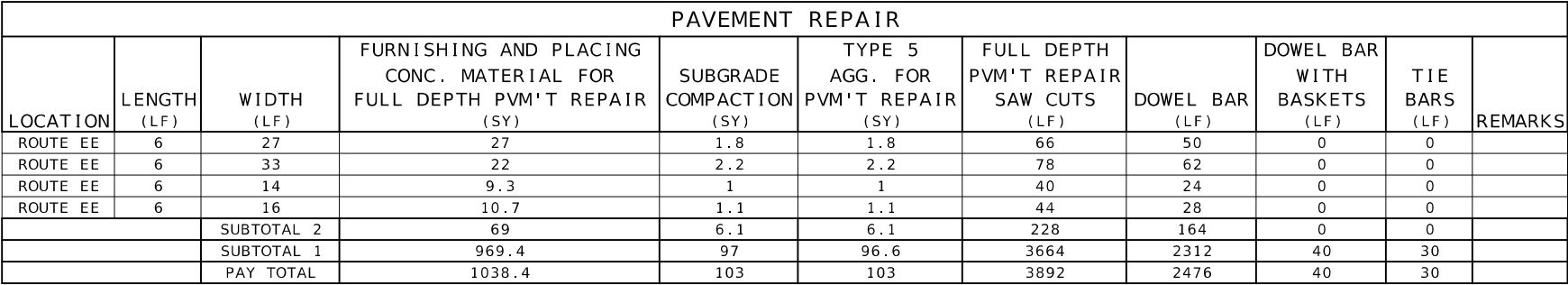


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIDEROAD PAVEMENT QUANTITIES									
NAME	LOG MILE	LOCATION	COLDMILLING BITUMINOUS PVMT FOR REMOVAL OF SURFACING (<_3 IN.) (SY)	*MODIFIED COLDMILLING (DEPTH TRANSITIONS) (SY)	BITUMINOUS PAVEMENT MIXTURE (BP-2 PG 64-22 MIX) (TON)	BITUMINOUS PAVEMENT MIXTURE (BP-1LT w/ 58-28H MIX) (TON)	MODIFIED TACK COAT (GAL)	TACK COAT NON-TRACKING (GAL)	COMMENTS
OLD BUSINESS 10	14.576	SIDEROAD LT	223.4	200	154.7		200.6		
ROUTE EE	14.858	SIDEROAD RT	191.8	200	148.2		218.9		
NE LEATHERS ROAD	15.557	SIDEROAD LT		204.2	25.4		40.8		
SW LEATHERS ROAD	15.557	SIDEROAD RT		177.3	22.0		35.5		
FITCH ROAD	16.305	SIDEROAD LT		139.7	45.3		72.9		
SWOFFORD ROAD	16.813	SIDEROAD LT		205.7	25.5		41.1		
SOUTH OF SWOFFORD ROAD	16.813	SIDEROAD RT		127.5	53.8		90.5		
SHIRKEY AVE	19.77	SIDEROAD RT		119.1		37.2		43.9	
E MAIN STREET	20.792	SIDEROAD RT	264.1			22.0		26.4	
CALVERT FARM ROAD	21.177	SIDEROAD LT		88.0		22.8		27.4	
N HILL SCHOOL ROAD	21.431	SIDEROAD LT		113.6		38.4		46.1	
S HILL SCHOOL ROAD	21.431	SIDEROAD RT		99.5		37.8		46.1	
MERRIFIELD LANE	22.155	SIDEROAD LT		110.8		16.2		19.3	
OLD 10 HWY	22.155	SIDEROAD RT		78.6		15.6		19.0	
		SUBTOTAL 4	679	1864	474.9	190.0	700	228	

* MAY MILL INTO CONCRETE

PAVEMENT QUANTITIES										
	COLDMILLING BITUMINOUS PVMT FOR REMOVAL OF SURFACING (<_3 IN.) (SY)	MODIFIED COLDMILLING (DEPTH TRANSITIONS) (SY)	ASPHALTIC CONCRETE MIXTURE (SP095C PG 70-22 MIX) (TON)	BITUMINOUS PAVEMENT MIXTURE (BP-2 PG 64-22 MIX) (TON)	BITUMINOUS PAVEMENT MIXTURE (BP-1LT w/ 58-28H MIX) (TON)	AGGREGATE FOR BASE (6. IN THICK) (SY)	BITUMINOUS PAVEMENT MIXTURE (PG 64-22) (BASE) (TON)	PERMANENT AGGREGATE EDGE TREATMENT (TON)	MODIFIED TACK COAT (GAL)	TACK COAT NON-TRACKING (GAL)
SUBTOTAL 1	134805	1943	15186.9	7162.0				680.1	27350	
SUBTOTAL 2	81298	1291			9181.1			835.1		8259
SUBTOTAL 3	22648	3228	3189.2		616.1	793.2	259.4	520.9	3677	554.2
SUBTOTAL 4	679	1864		474.9	190.0				700	228
PAY TOTAL	239430	8326	18376	7636.9	9987.2	793	259.4	2036.1	31727	9041



CLASS C PARTIAL DEPTH PAVEMENT REPAIR						
LOG MILE	LOCATION	LENGTH	WIDTH	FURNISHING AND PLACING (TONS)	REMOVAL (SY)	REMARKS
14.05	SHOULDER	100	10	24.5	111.1	
14.196	SHOULDER	50	10	12.4	55.6	
15.384	SHOULDER	120	10	29.5	133.3	
15.422	SHOULDER	50	10	12.4	55.6	
15.689	SHOULDER	60	10	14.7	66.7	
16.091	SHOULDER	70	10	17.1	77.8	
16.16	SHOULDER	70	10	17.1	77.8	
16.277	SHOULDER	80	10	19.7	89	
16.414	SHOULDER	60	10	14.7	66.7	
16.554	SHOULDER	70	10	17.1	77.8	
16.732	SHOULDER	200	10	49.2	222.2	
16.815	SHOULDER	80	10	19.7	88.9	
16.929	SHOULDER	60	10	14.7	66.7	
17.205	SHOULDER	100	10	24.5	111.1	
17.51	SHOULDER	150	10	36.9	166.7	
18.412	SHOULDER	130	10	31.9	144.4	
21.043	SHOULDER	50	10	12.4	55.6	
21.504	SHOULDER	50	10	12.4	55.6	
28.26	SHOULDER	30	10	7.4	33.3	
14.136	SHOULDER	50	10	12.4	55.6	
14.775	SHOULDER	110	10	27.1	122.2	
14.855	SHOULDER	50	10	12.4	55.6	
15.159	SHOULDER	80	10	19.7	88.9	
15.207	SHOULDER	70	10	17.1	77.8	
16.747	SHOULDER	50	10	12.4	55.6	
16.769	SHOULDER	40	10	9.8	44.4	
18.556	SHOULDER	80	10	19.7	88.9	
18.873	SHOULDER	150	10	36.9	166.7	
19.66	SHOULDER	50	10	12.4	55.6	
19.8	SHOULDER	60	10	14.7	66.7	
19.829	SHOULDER	50	10	12.4	55.6	
20.993	SHOULDER	50	10	12.4	55.6	
21.852	SHOULDER	30	10	7.4	33.3	
28.32	SHOULDER	160	10	39.5	177.8	
28.436	SHOULDER	60	10	14.7	66.7	
			PAY TOTAL	669.3	3022.9	



SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	ITEM	TOTAL	EFFECTIVE: 07-01-2025	
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	IN.		SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	NUMBER	QTY		DESCRIPTION			
WARNING SIGNS									GUIDE SIGNS												
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00	1	12.00				GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00	1	12.00				EXIT CLOSED	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						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	3	26.25				PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50	3	4.50				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00	2	6.00				END DETOUR	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6123001	2	TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161012		BUOYS (BOATS KEEP OUT)	
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161013		BUOYS (NO WAKE)	
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161020		CHANNELIZER (DRUM-LIKE)	
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161022		CHANNELIZER (CONE)	
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TR1	6.93						YIELD	6161025	183	CHANNELIZER (TRIM-LINE)	
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161026		CHANNELIZER (VERTICAL PANEL)	
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161030	5	TYPE 3 MOVEABLE BARRICADE	
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00						SPEED LIMIT XX	6161033		DIRECTION INDICATOR BARRICADE	
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161040	3	FLASHING ARROW PANEL	
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161055		SEQUENTIAL FLASHING WARNING LIGHT	
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161070		TUBULAR MARKER	
WO4-1aL	48X48	16.00	1	16.00				MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161095	3	CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6161096		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6161098A		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED	
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED	
WO8-1	48X48	16.00	2	32.00				BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED	
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)	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00	2	4.00				SIDEWALK CLOSED	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT	
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6208064A		TEMPORARY RAISED PAVEMENT MARKER	
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	9029400		TEMPORARY TRAFFIC SIGNALS	
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00	1	10.00				ROAD CLOSED	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD				
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY				
WO8-11	48X48	16.00	8	128.00				UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC				
WO8-12	48X48	16.00	8	128.00				NO CENTER LINE	CONST-3X	56X12	4.67						FINE SIGN				
WO8-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS												
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE				
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00	2	64.00				POINT OF PRESENCE				
WO8-17R	48X48	16.00	8	128.00				SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	4	48.00				WORK ZONE NO PHONE ZONE				
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	MO4-11	36X78	19.50	40	780.00				DETOUR ASSEMBLY				
WO10-1	42RND.	9.62						RAILROAD CROSSING													
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)													
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)													
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)													
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													
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)													
WO16-2	30X24	5.00						XXX FEET (PLAQUE)													
WO16-3	30X24	5.00						X MILE (PLAQUE)													
WO20-1	48X48	16.00	13	208.00				ROAD/BRIDGE/RAMP WORK AHEAD													
WO20-2	48X48	16.00	6	96.00				DETOUR AHEAD													
WO20-3	48X48	16.00						ROAD CLOSED AHEAD	616-10.05												
WO20-4	48X48	16.00	6	96.00				ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS									TOTAL			
WO20-5	48X48	16.00	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10									TOTAL			
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCATED SIGNS												
WO20-6a	48X48	16.00	1	16.00				RIGHT/CENTER/LEFT LANE CLOSED													
WO20-7a	48X48	16.00	6	96.00				FLAGGER (SYMBOL)													
WO21-2	36X36	9.00						FRESH OIL													
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD													
WO22-1	48X48	16.00						BLASTING ZONE AHEAD													
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE													
WO22-3	42X36	10.50						END BLASTING ZONE													
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)													

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

08/11/2025 2:55:34 PM

JACLYN A. WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED

8/11/2025

ROUTE

10

STATE

MO

DISTRICT

KC

SHEET NO.

3

COUNTY

RAY

JOB NO.

JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

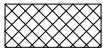
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES

SHEET 11 OF 11

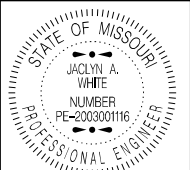


COLDMILLING



MODIFIED COLDMILLING

SPECIAL SHEET
SHEET 1 OF 17
INTERSECTION MO-10/RT T
PAVING LIMITS



Jaclyn A. White
08/11/2025 3:17:21 PM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE 10 STATE MO

DISTRICT KC SHEET NO. 4

COUNTY RAY

JOB NO. JKR0077

CONTRACT ID.

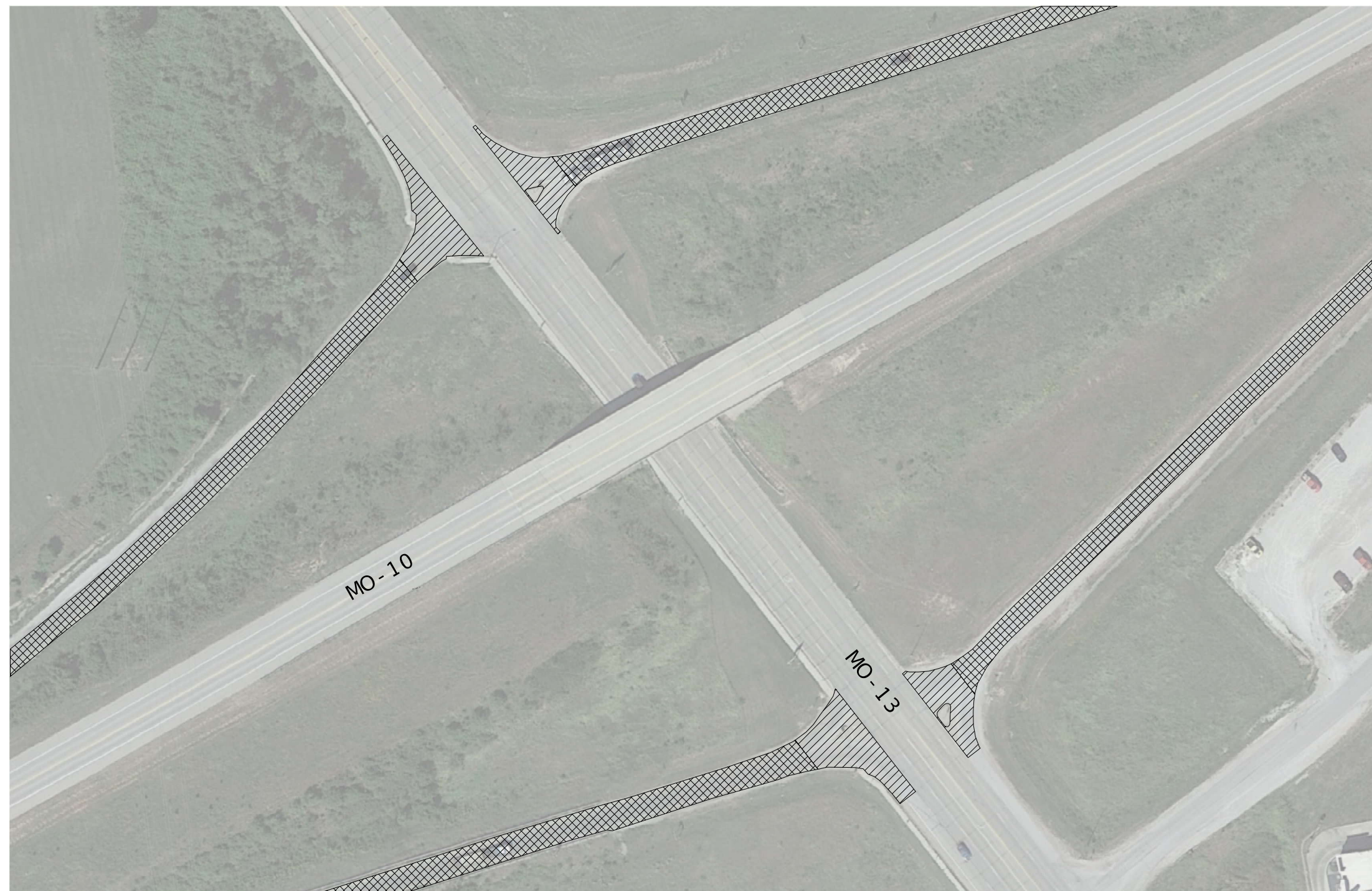
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BRIDGE NO.

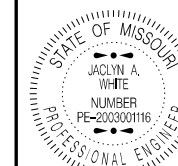
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SPECIAL SHEET
SHEET 2 OF 17
INTERSECTION MO-10/MO-13
PAVING LIMITS



Jaclyn A. White
08/11/2025 3:17:53 PM
JACLYN A WHITE - CIVIL
MO DE 0000001110

MO-PE-2003001116

DATE PREPARED

8/11/2025

ROUTE	STA
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DISTRICT	SHEET
KC	5

KC	5
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COUNTY

RAY

JOB NO

JKR001

CONTRACT ID.

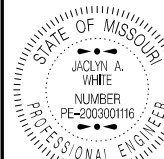
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BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



Jacquelyn A. White
08/11/2025 3:18:57 PM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE 10	STATE MO
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DISTRICT KC	SHEET NO. 7
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COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

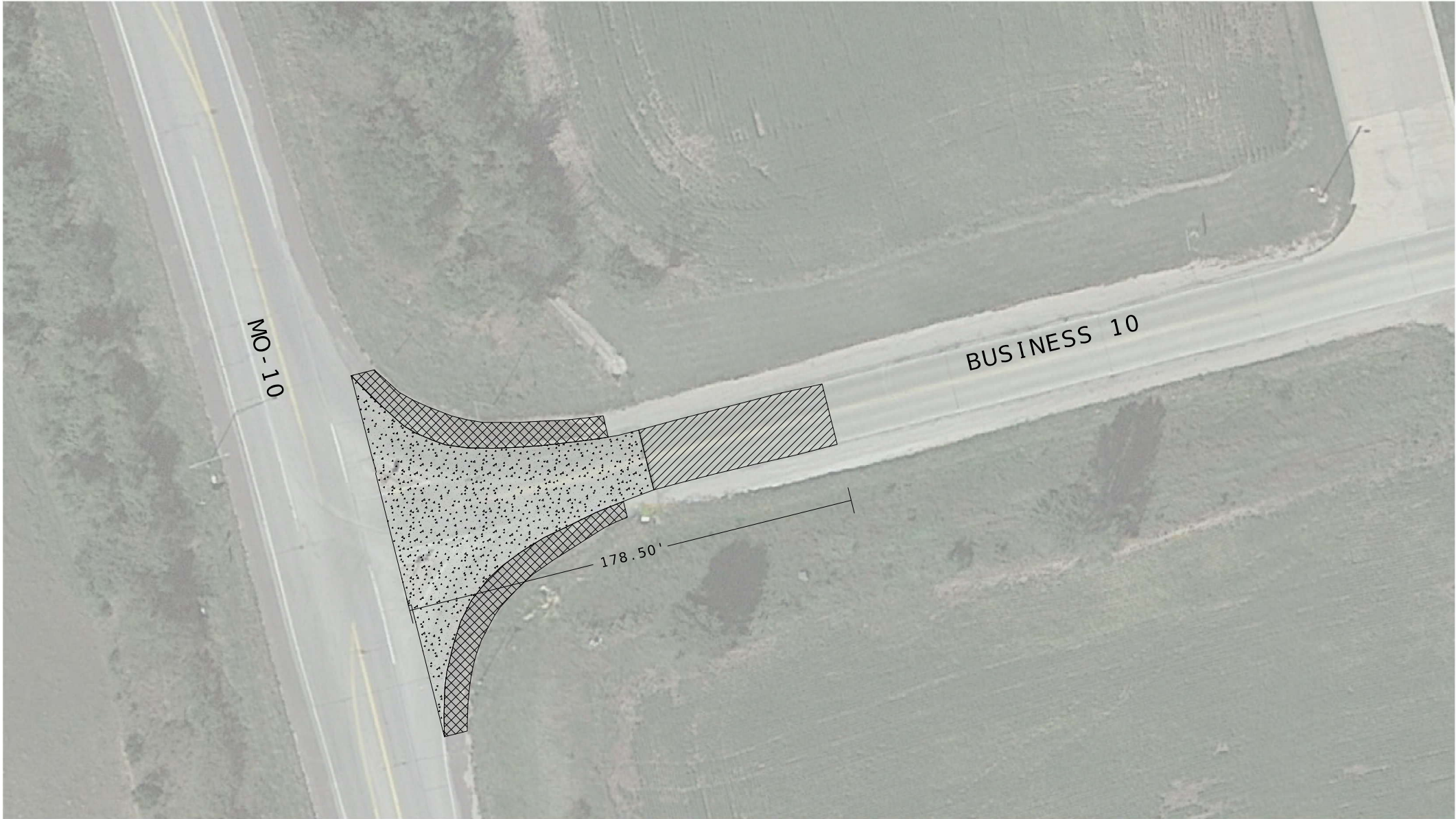
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DATE	DESCRIPTION

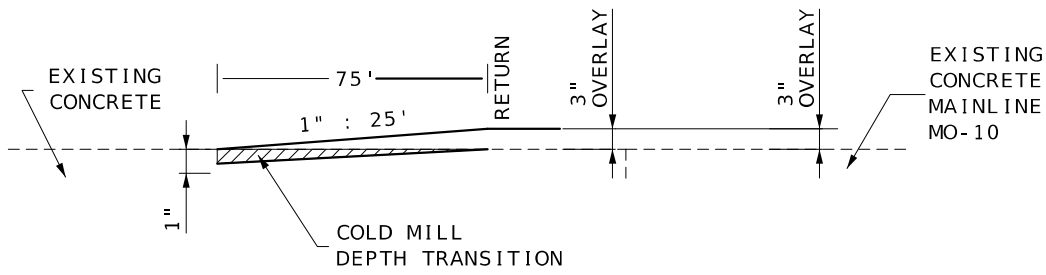
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

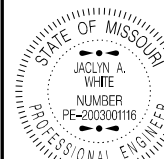


NOT TO SCALE



-  NO MILLING
-  COLDMILLING
-  MODIFIED COLDMILLING

SPECIAL SHEET
SHEET 4 OF 17
SIDEROAD MILLING



DATE PREPARED
8/11/2025

ROUTE
10

STATE
MO

DISTRICT
KC

SHEET NO.
8

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

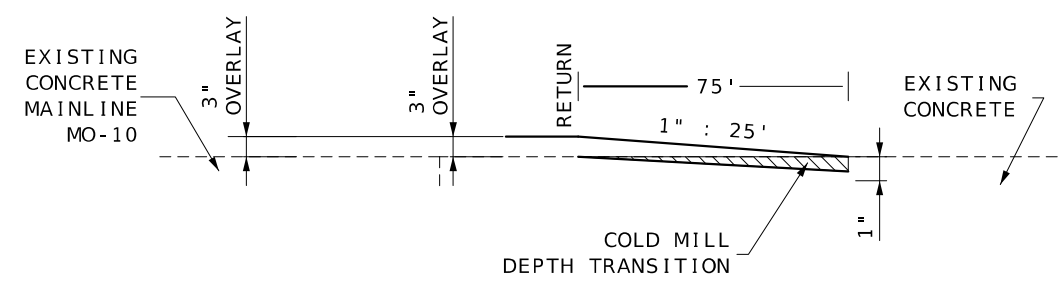
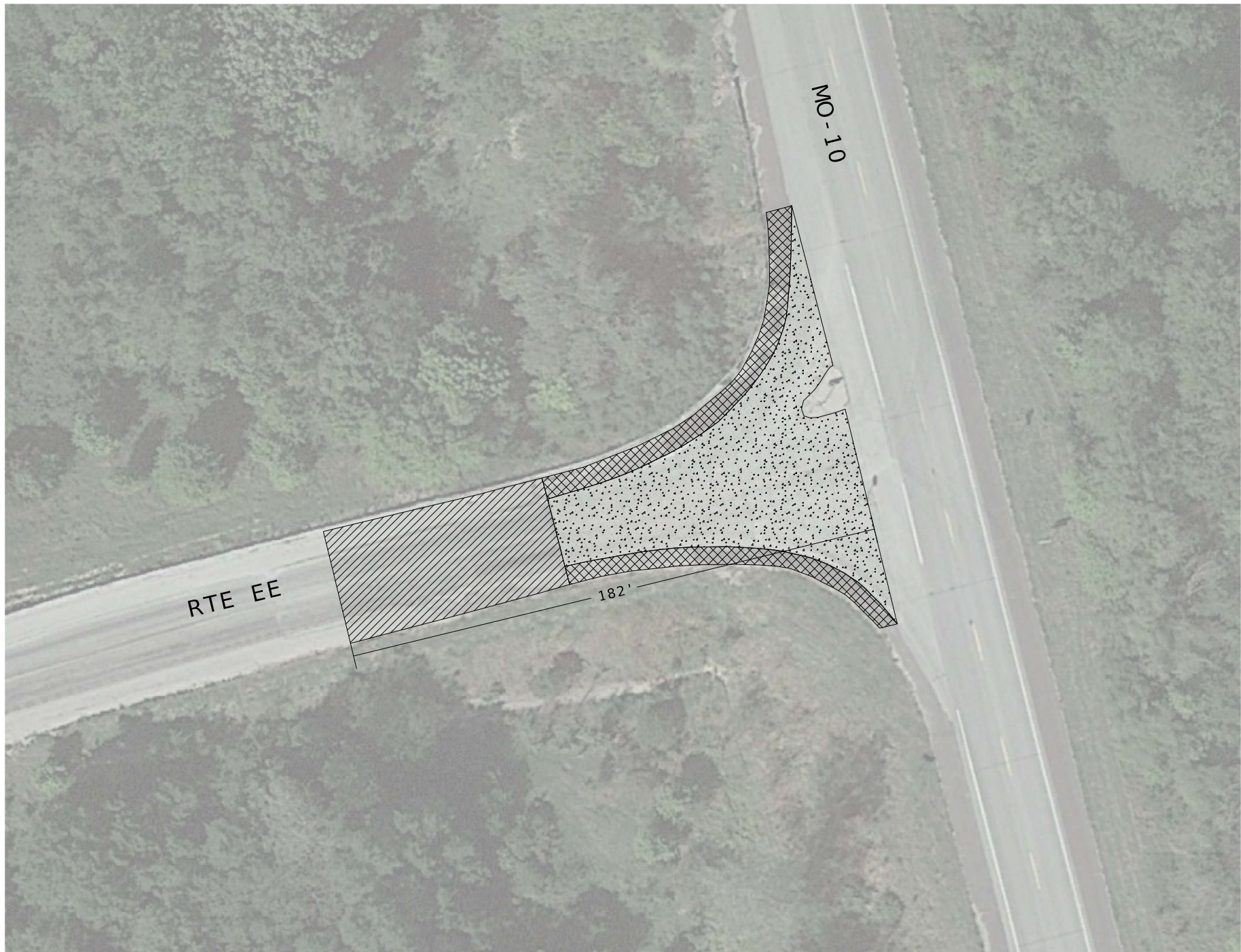
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

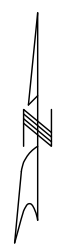
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



- NO MILLING
- COLDMILLING
- MODIFIED COLDMILLING

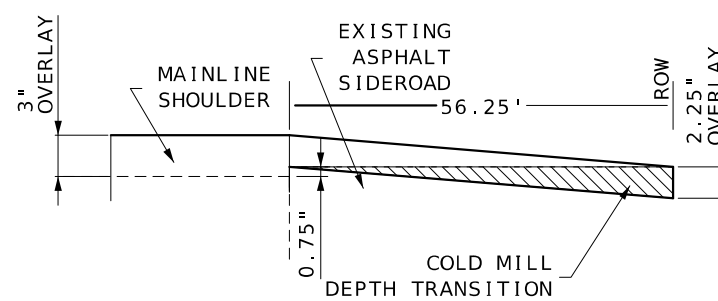
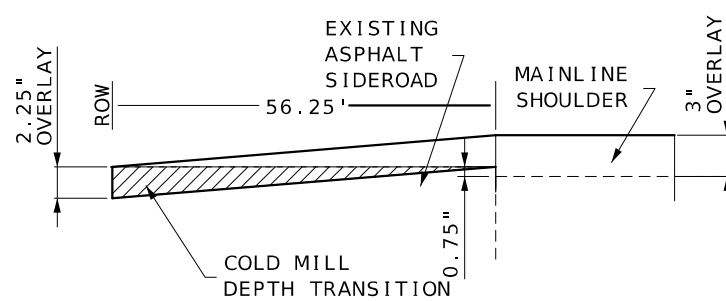
SPECIAL SHEET
SHEET 5 OF 17
SIDEROAD MILLING



NOT TO SCALE

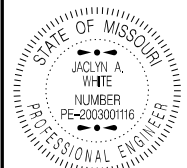


NOT TO SCALE



MODIFIED COLDMILLING

SPECIAL SHEET
SHEET 6 OF 17
SIDEROAD MILLING



Jaclyn A. White
08/11/2025 3:20:05 PM
JACLYN A WHITE - CIVIL
MO DE 00000011116

DATE PREPARED
8/11/2025

ROUTE	STATE
10	MO

DISTRICT	SHEET NO.
KC	9

COUNTY
RAY

JOB NO.
IKB0077

CONTRACT ID.	
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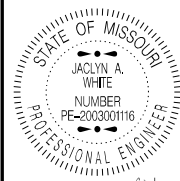
PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION





Jacquyn A. White
JACLYN A. WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE 10	STATE MO
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DISTRICT KC	SHEET NO. 10
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COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

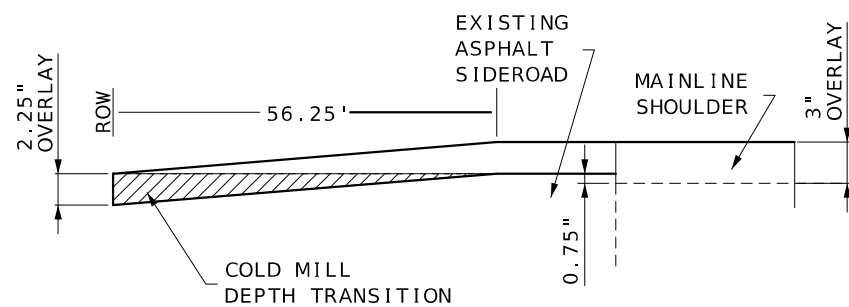
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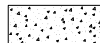
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

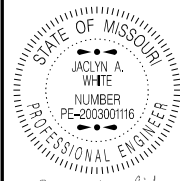


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



-  NO MILLING
-  MODIFIED COLDMILLING

SPECIAL SHEET
SHEET 7 OF 17
SIDEROAD MILLING



DATE PREPARED
8/11/2025

ROUTE	STATE
10	MO
DISTRICT	SHEET NO.
KC	11

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

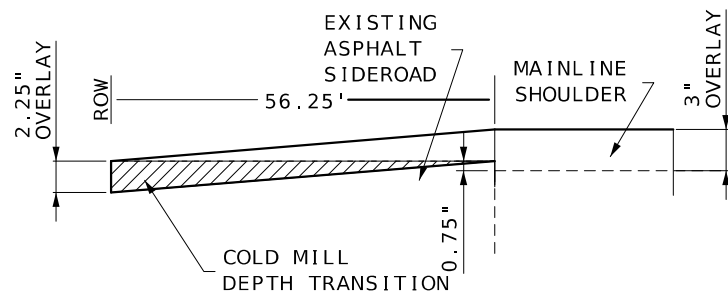
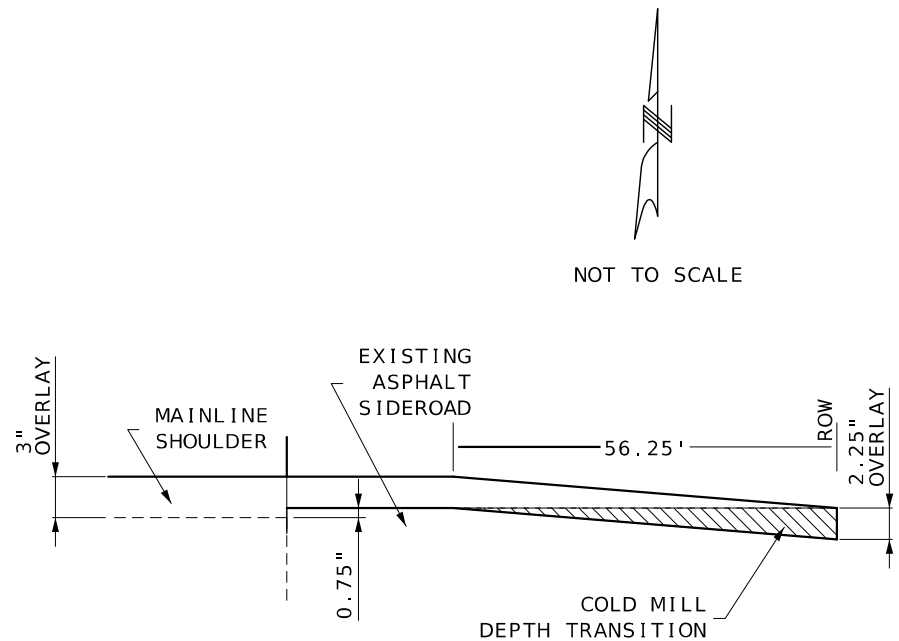
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

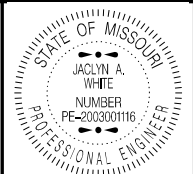


NO MILLING



MODIFIED COLDMILLING

SPECIAL SHEET
SHEET 8 OF 17
SIDEROAD MILLING



Jaclyn A. White
08/11/2025 3:21:38 PM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE 10	STATE MO
-------------	-------------

DISTRICT KC	SHEET NO. 12
----------------	-----------------

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

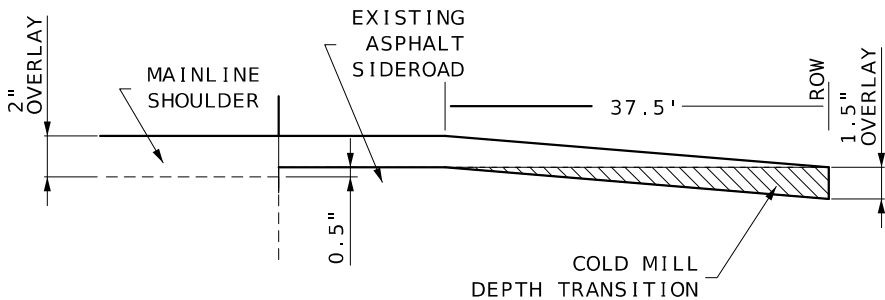
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOT TO SCALE

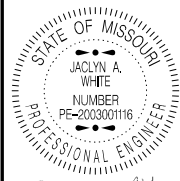


NO MILLING



MODIFIED COLDMILLING

SPECIAL SHEET
SHEET 9 OF 17
SIDEROAD MILLING



Jacklyn A. White
10/01/2025 3:45:59 PM
JACLYN A WHITE-CIVIL
MO-PE-2003001116

DATE PREPARED
10/1/2025

ROUTE 10	STATE MO
-------------	-------------

DISTRICT KC	SHEET NO. 13
----------------	-----------------

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

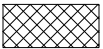
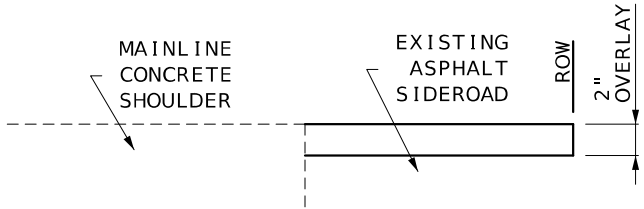
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOT TO SCALE



COLDMILLING

SPECIAL SHEET
SHEET 10 OF 17
SIDEROAD MILLING



DATE PREPARED
8/11/2025

ROUTE 10 STATE MO

DISTRICT KC SHEET NO. 14

COUNTY RAY

JOB NO. JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

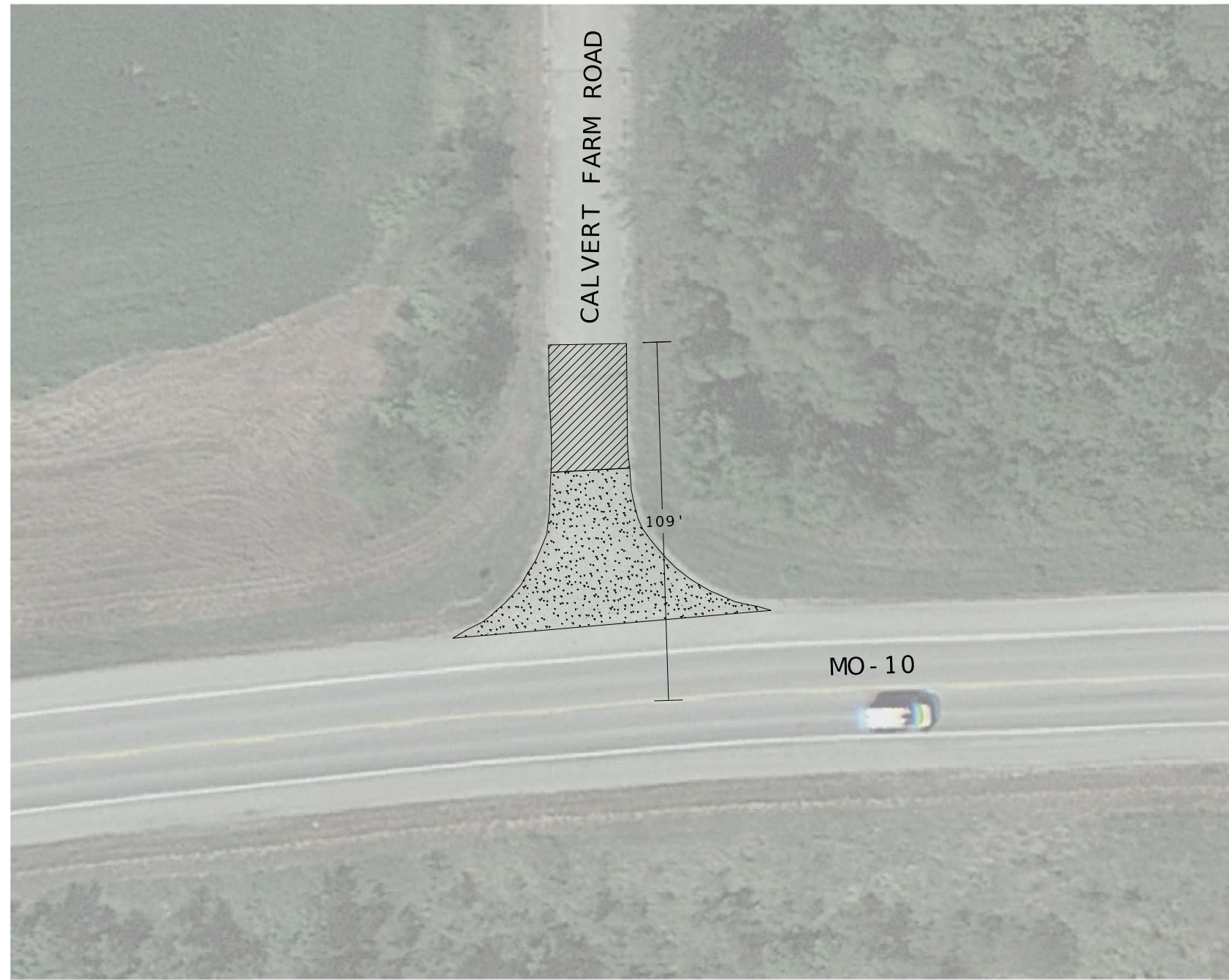


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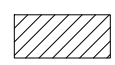
DATE



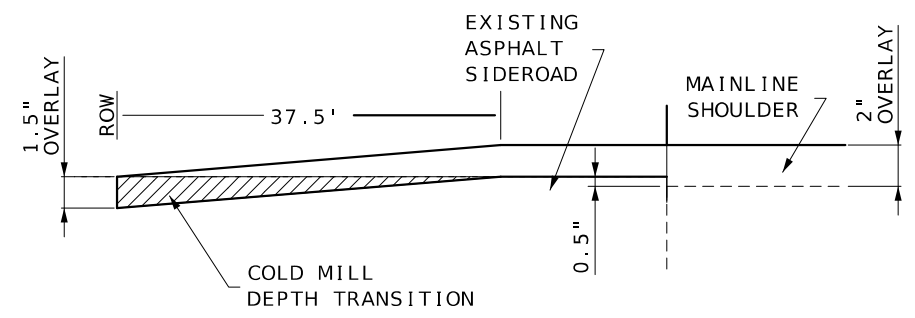
NOT TO SCALE



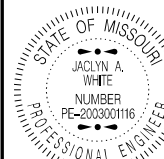
NO MILLING



MODIFIED COLDMILLING



SPECIAL SHEET
SHEET 11 OF 17
SIDEROAD MILLING



Jacquelyn A. White
08/11/2025 3:23:27 PM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE STATE
10 MO

DISTRICT SHEET NO.
KC 16

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

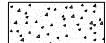
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

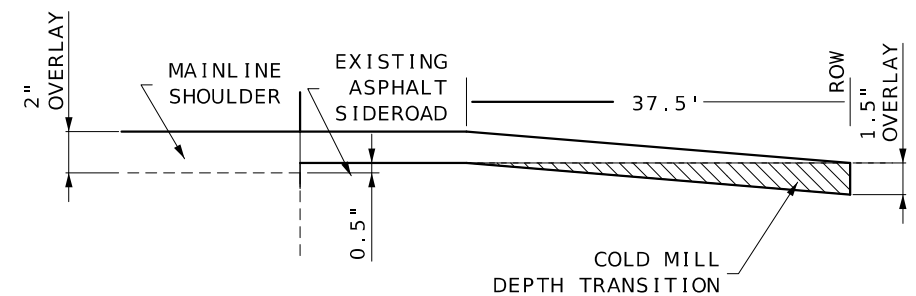
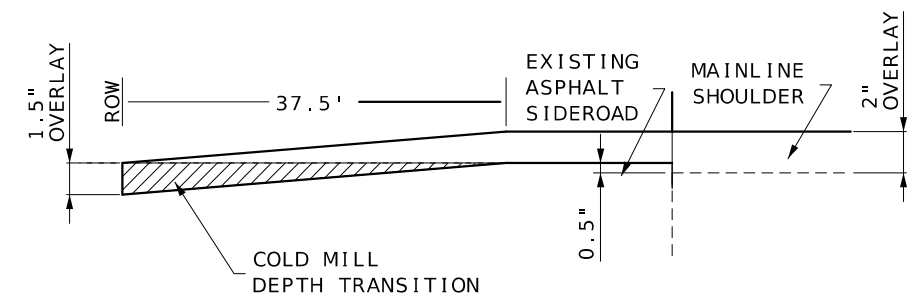


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

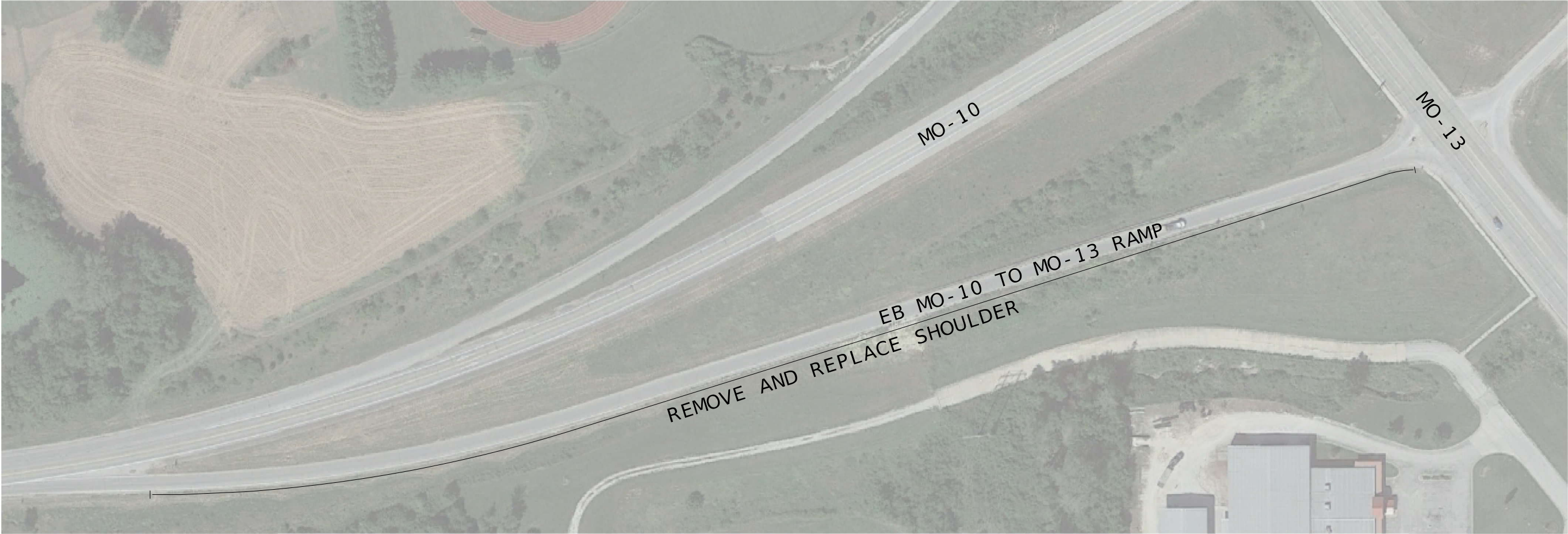



NOT TO SCALE

-  NO MILLING
-  MODIFIED COLDMILLING



SPECIAL SHEET
SHEET 13 OF 17
SIDEROAD MILLING



SPECIAL SHEET
SHEET 14 OF 17
RAMP SHOULDER REPLACEMENT



Jaclyn A. White
08/11/2025 3:23:56 PM
JACLYN A. WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/11/2025

ROUTE	STATE
10	MO

DISTRICT	SHEET NO.
KC	17

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

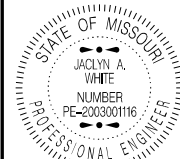
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



SPECIAL SHEET
SHEET 15 OF 17
GUARDRAIL DETAIL



Jaclyn A. White
08/11/2025 3:24:30 PM
JACLYN A WHITE - CIVIL
MO-PE-200300116

DATE PREPARED
8/11/2025

ROUTE	STATE
10	MO

DISTRICT	SHEET NO.
KC	18

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SPECIAL SHEET
SHEET 16 OF 17
GUARDRAIL DETAIL

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jacquelyn A. White
08/11/2025 3:25:16 PM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED

8/11/2025

ROUTE

10

STATE

MO

DISTRICT

KC

SHEET NO.

19

COUNTY

RAY

JOB NO.

JKR0077

CONTRACT ID.

PROJECT NO.

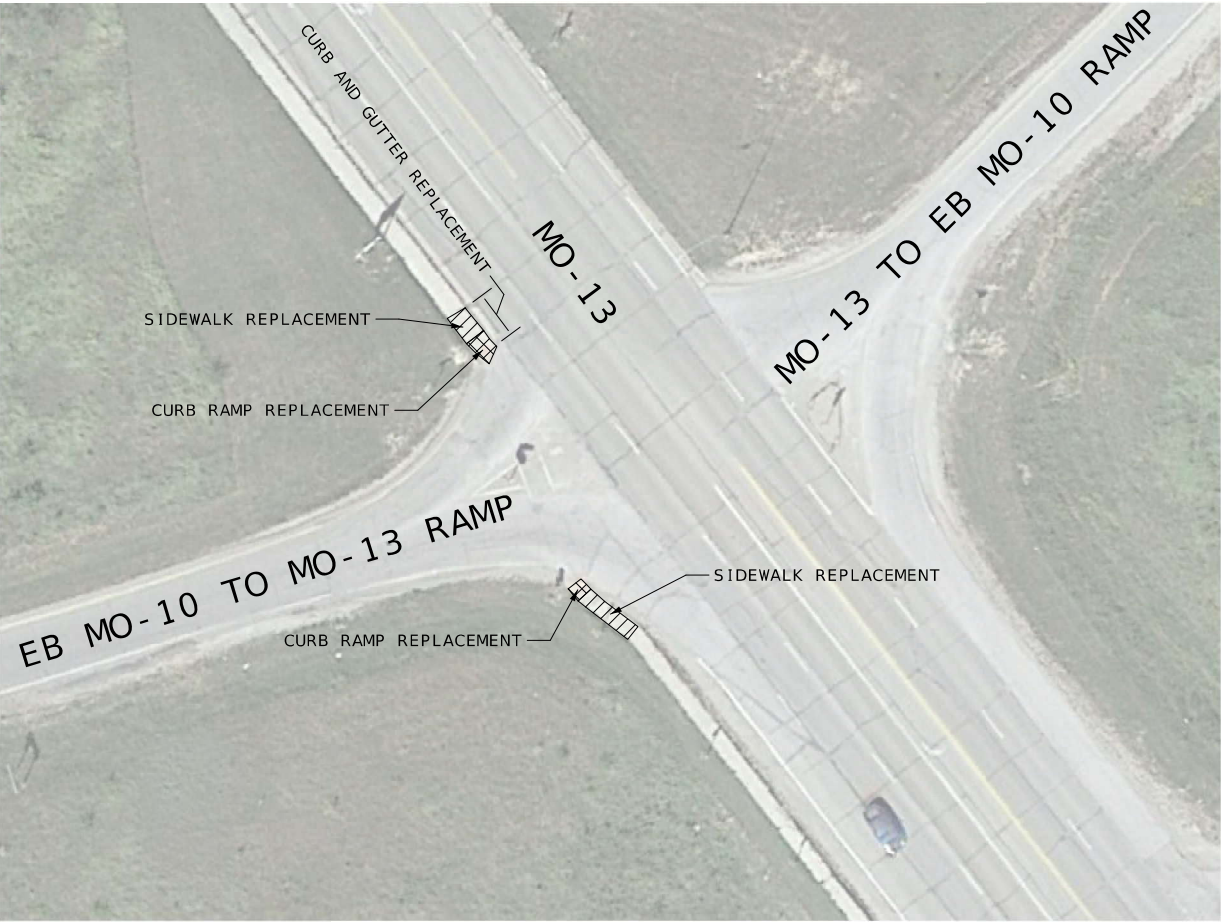
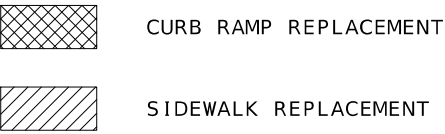
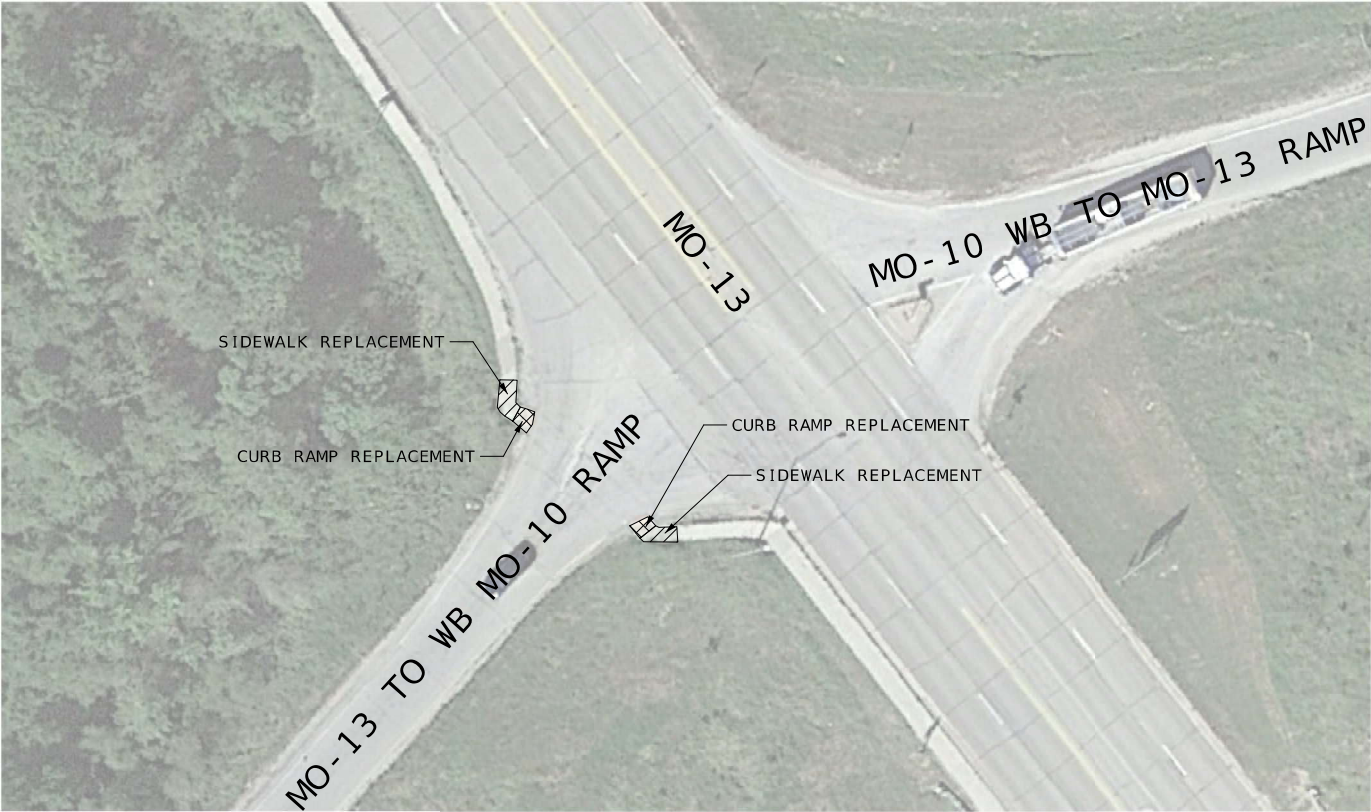
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SPECIAL SHEET
SHEET 17 OF 17
SIDEWALK DETAIL

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White
08/11/2025 3:25:56 PM
JACLYN A. WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED	
8/11/2025	
ROUTE	STATE
10	MO
DISTRICT	SHEET NO.
KC	20
COUNTY	
RAY	
JOB NO.	
JKR0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Sign Spacing, Device Spacing
and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

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

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

• SIGN (DOUBLE SIDED)

◁ FLAGGER

▲ DIRECTION INDICATOR BARRICADE

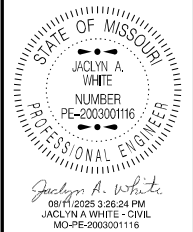
■ CHANNELIZER

E BARRICADE

CHANGEABLE MESSAGE BOARD

FLASHING ARROW PANEL

TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL



DATE PREPARED 8/11/2025	
ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 21
COUNTY RAY	
JOB NO. JKR0077	
CONTRACT ID.	

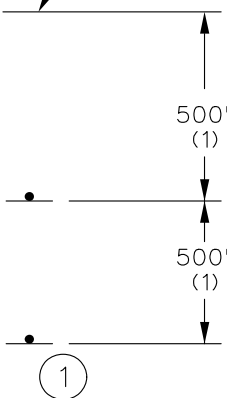
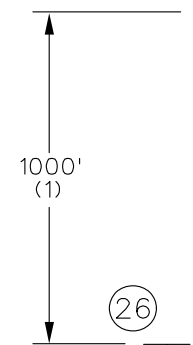
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

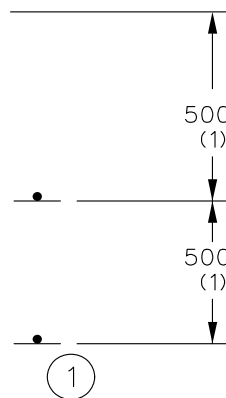
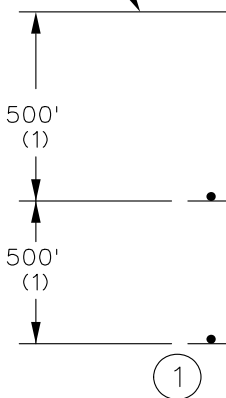
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



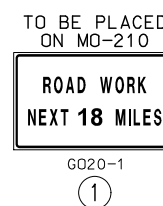
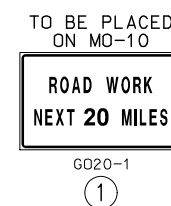
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



-BEGINNING OF PROJECT LIMITS; —
OR INITIAL WORK ZONE SIGN, IF
LOCATED OUTSIDE PROJECT LIMITS.



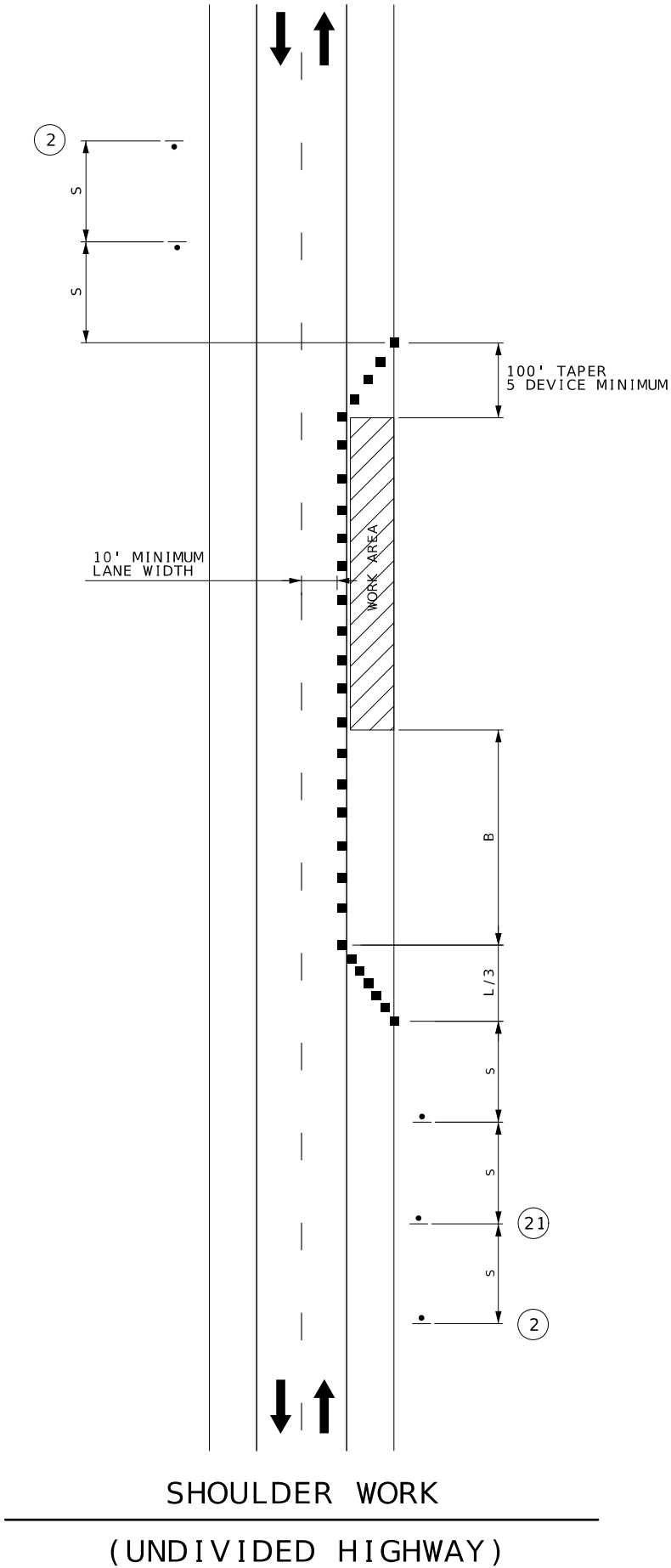
(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



CONST-5-48 (2)(3)



NOT TO SCALE



W020 - 1
(2)

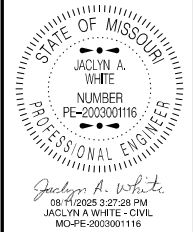


W021 - 5
(21)



W05 - 1

TRAFFIC CONTROL
SHEET 3 OF 15
UNDIVIDED SHOULDER WORK

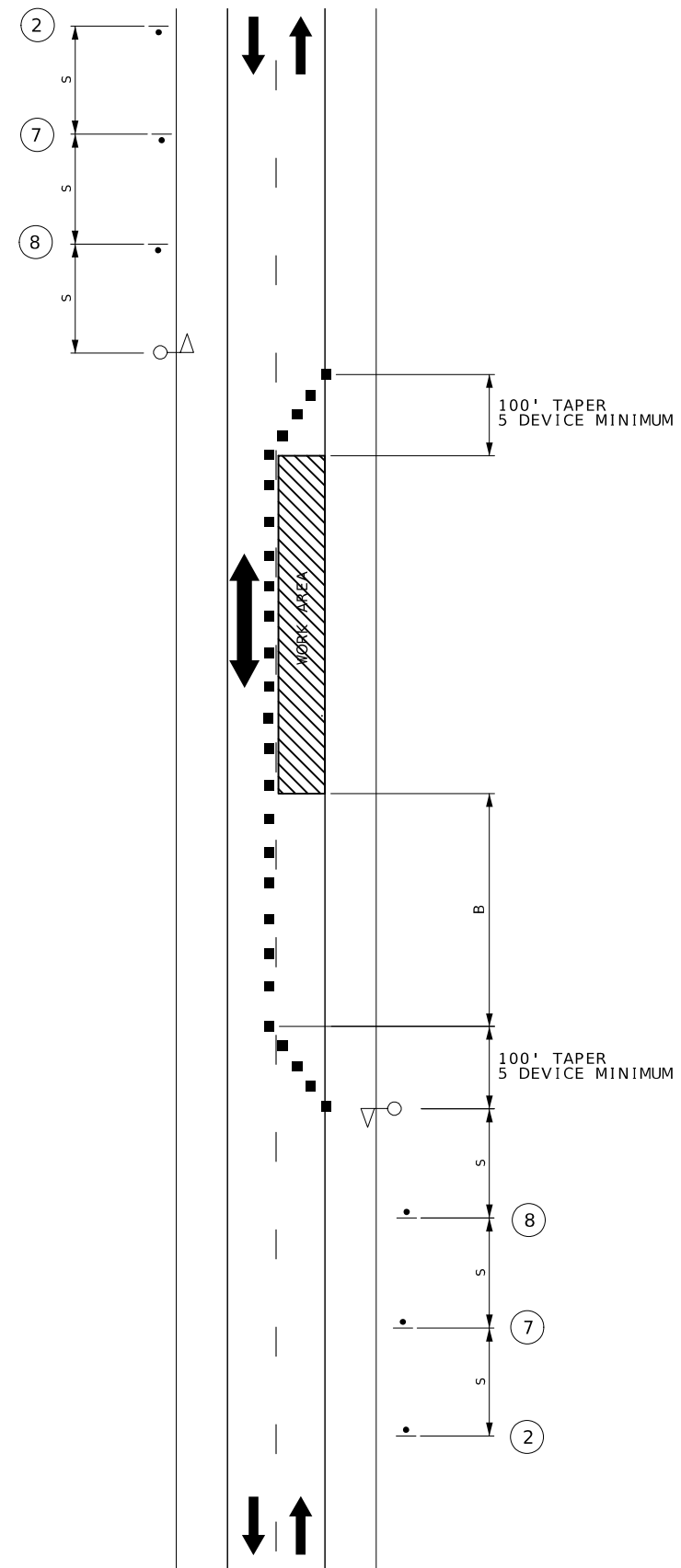


DATE PREPARED 8/11/2025	
ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 23
COUNTY RAY	
JOB NO. JKR0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOT TO SCALE



WO20 - 1

(2)



WO20 - 4

7



WO20-7a

(8)

[illegible]

ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 25

COUNTY
RAY
JOB NO.
JKR0077
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



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 SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

TRAFFIC CONTROL
SHEET 5 OF 15
TWO LANE FLAGGING
RESURFACING

NOT TO SCALE

NOTES:

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

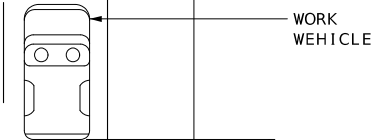
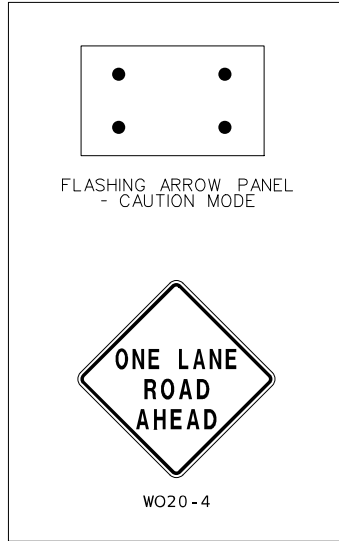
PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

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.

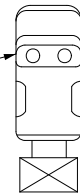
FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

(1) ADVANCE WARNING TRUCK IS POSITIONED AT VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE OR SPACING SHOWN, WHICHEVER IS GREATER.



WORK
VEHICLE

150' MIN.

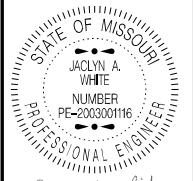


ADVANCE WARNING TRUCK WITH
WORK SIGNS, FLASHING ARROW PANEL AND
OPTIONAL TRUCK MOUNTED ATTENUATOR. (1)



MOBILE ON TWO-LANE HIGHWAY

TRAFFIC CONTROL
SHEET 6 OF 15
TWO LANE MOBILE WORK



DATE PREPARED
8/11/2025

ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 26

COUNTY
RAY

JOB NO.
JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

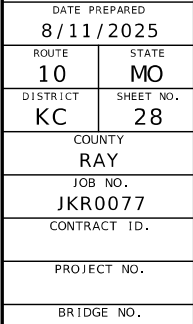
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

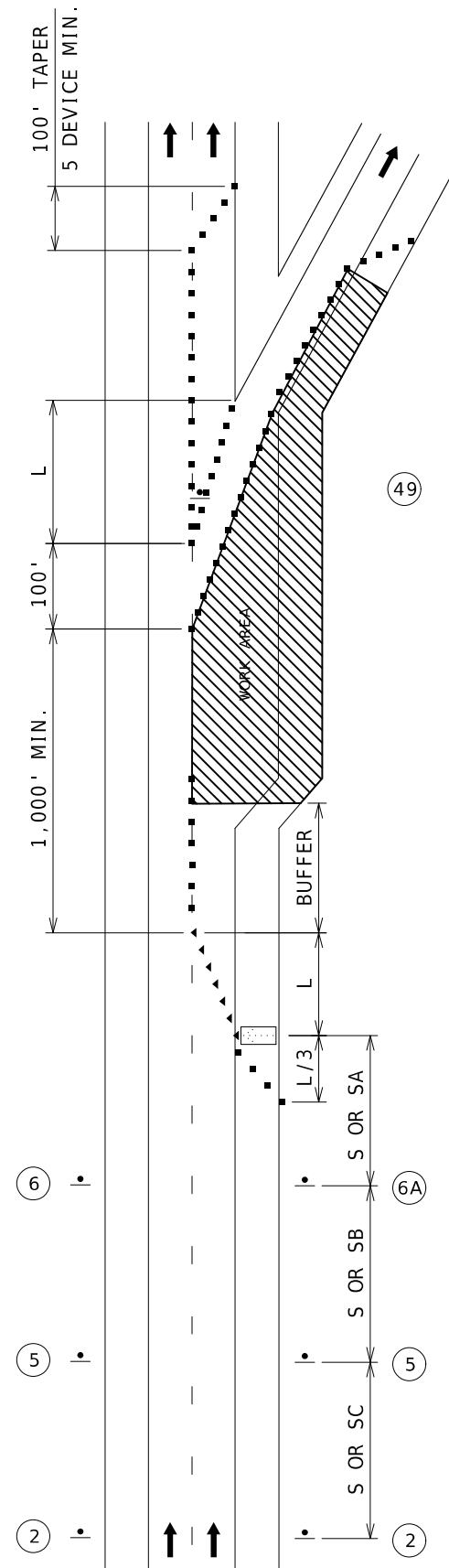


NOT TO SCALE

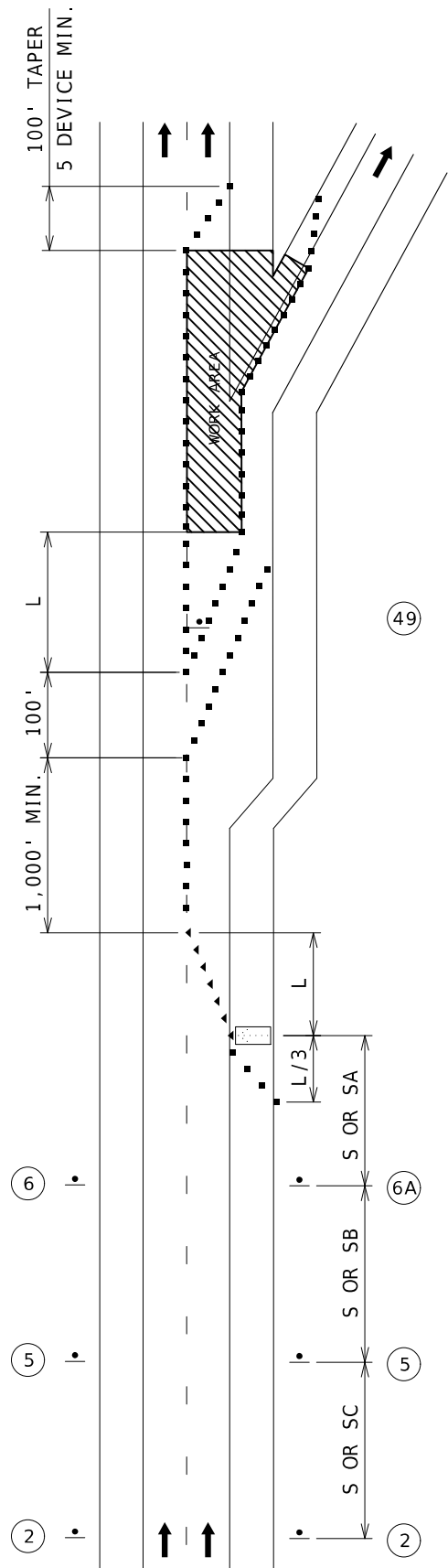
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



WORK IN THE VICINITY
OF AN EXIT RAMP



WO20-1

(2)



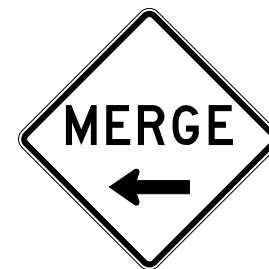
WO20-6a

(6)



WO20-5

(5)



WO4-1aL

(6A)



E05-1

(49)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 9 OF 15
WORK NEAR EXIT RAMP

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

08/11/2025 3:30:12 PM

JACLYN A. WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED

8/11/2025

ROUTE

10

STATE

MO

DISTRICT

KC

SHEET NO.

29

COUNTY

RAY

JOB NO.

JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

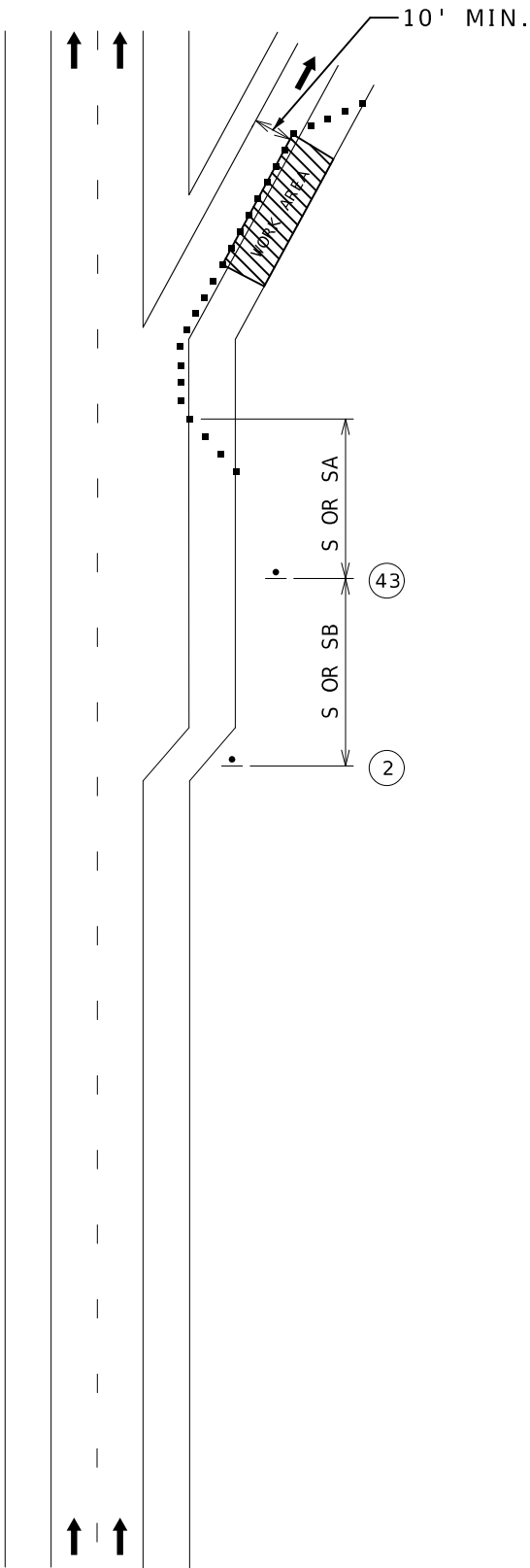
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

PARTIAL RAMP CLOSURE



WO20 - 1
2



WO5 - 1
43

NOT TO SCALE

TRAFFIC CONTROL
SHEET 10 OF 15
WORK REQUIRING PARTIAL
RAMP CLOSURE

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

08/11/2025 3:30:38 PM

JACLYN A WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED

8/11/2025

ROUTE

10

DISTRICT

KC

STATE

MO

SHEET NO.

30

COUNTY

RAY

JOB NO.

JKR0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

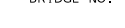
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

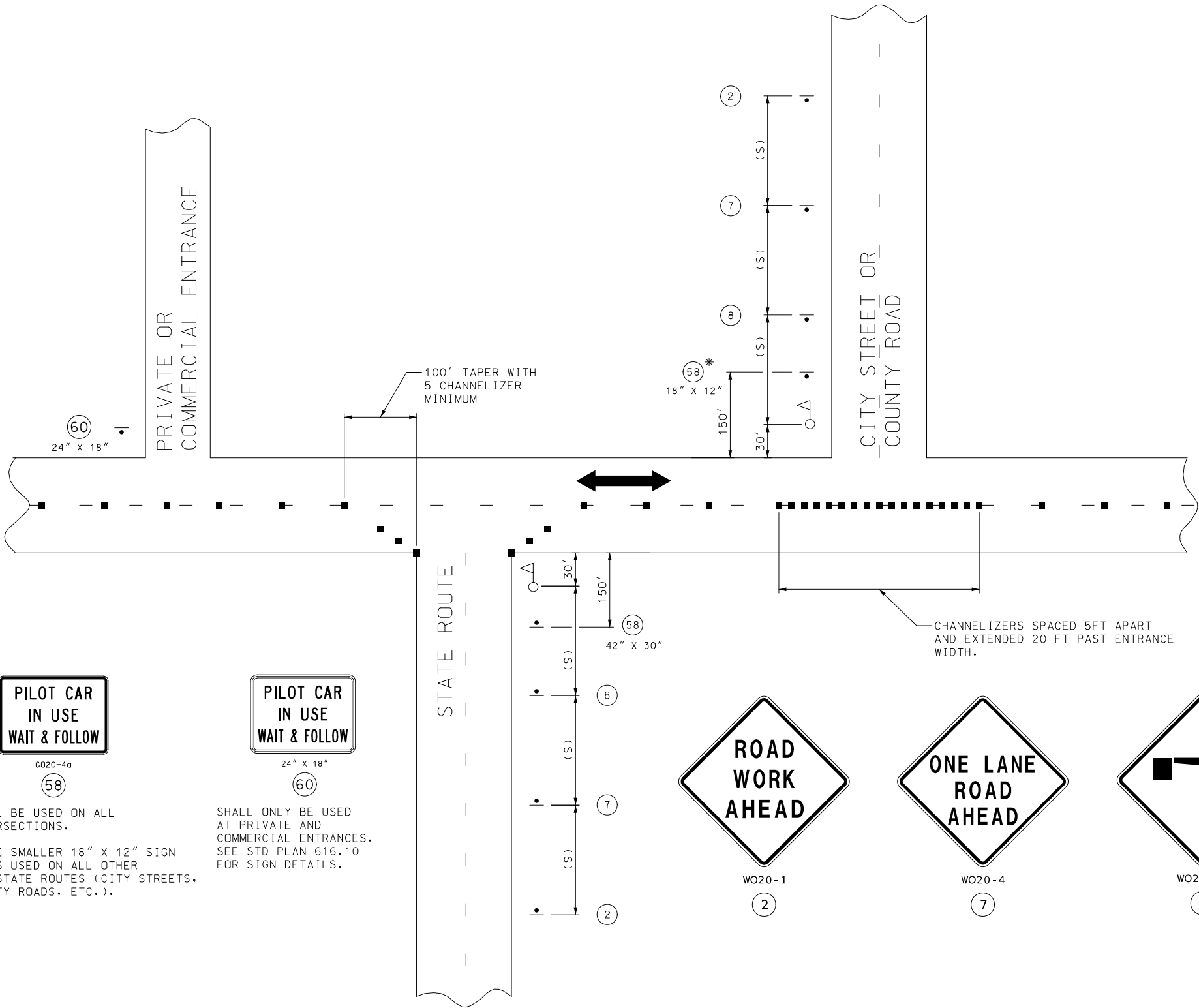


NOT TO SCALE



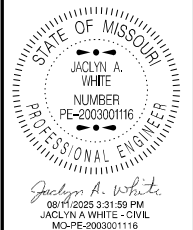

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102

NOT TO SCALE



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.



DATE PREPARED 8/11/2025	
ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 33
COUNTY RAY	
JOB NO. JKR0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

08/11/2025 3:33:03 PM

JACLYN A WHITE - CIVIL

BRIDGE NO.

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

 **MoDOT**

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



18

MO4 - 8 a

52

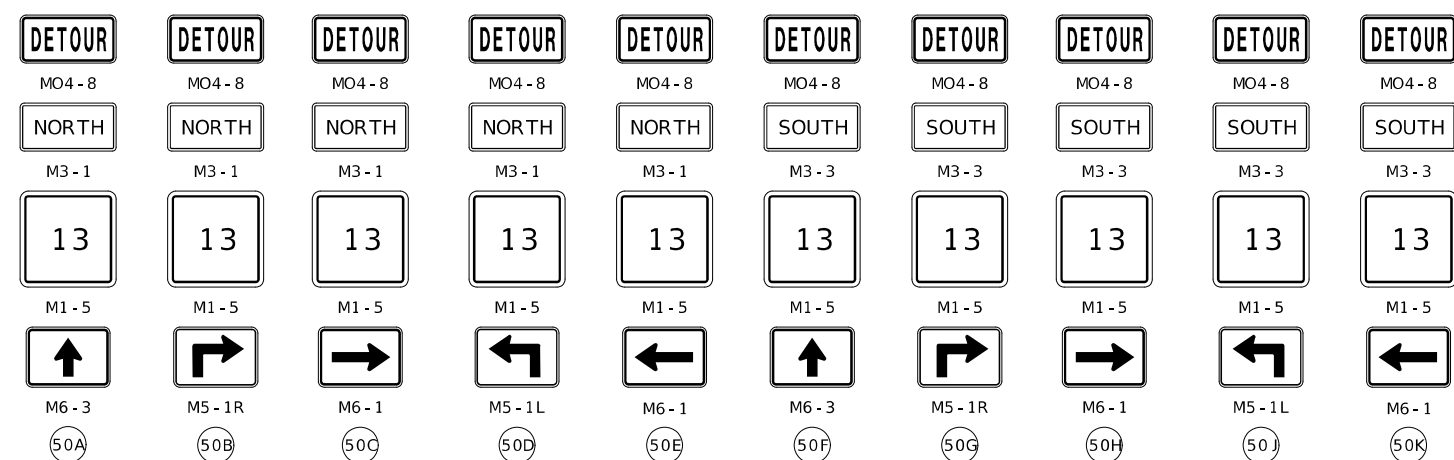


②

BRIDGE
OR
RAMP



29



TRAFFIC CONTROL
SHEET 15 OF 15
DETOUR SIGNING

DESIGN DESIGNATION

A.A.D.T. - 2025 = 3500
A.A.D.T. - 2035 = 3900
P.H.V. = 340
T = 13%
V = 60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MAJOR ARTERIAL

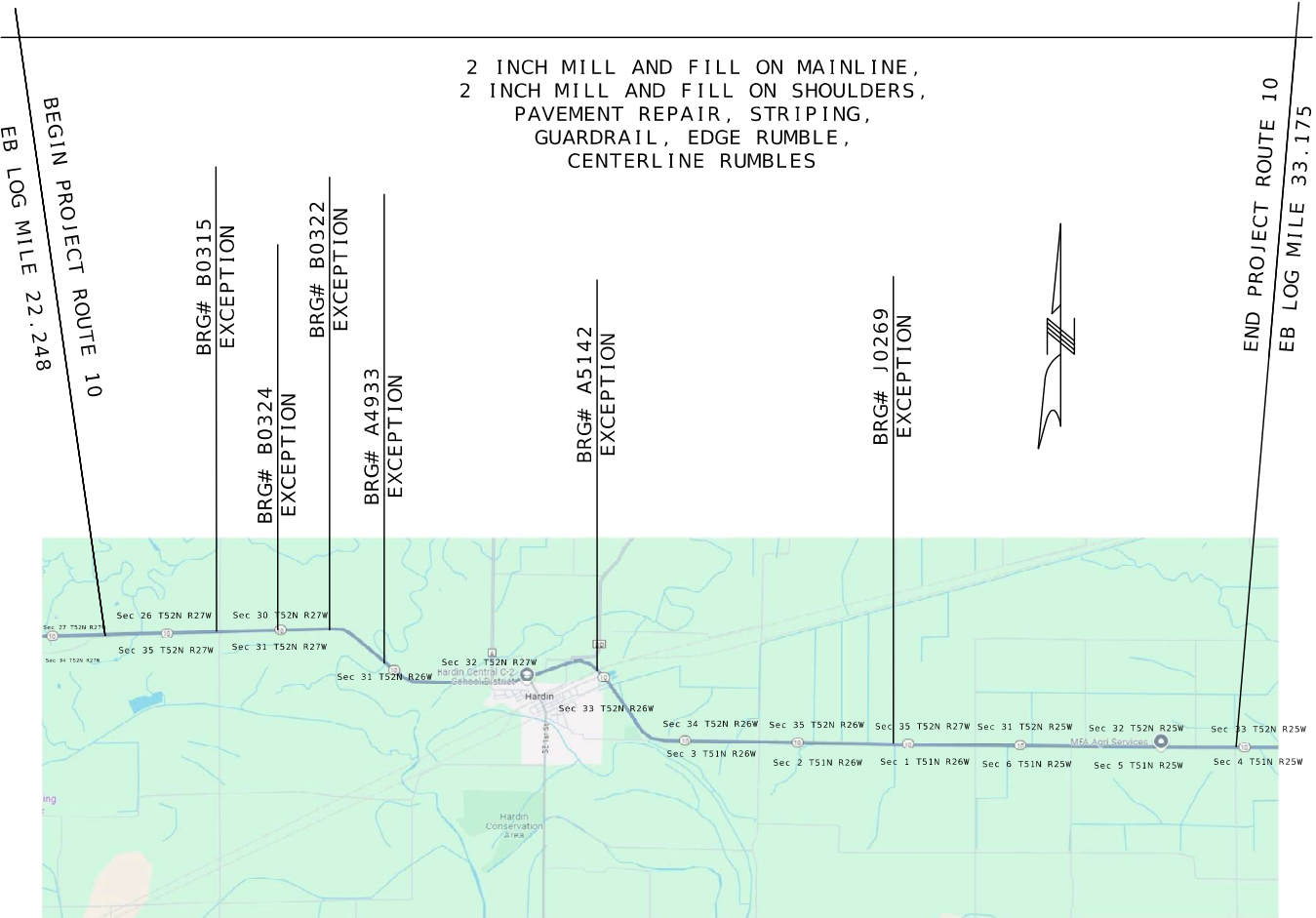
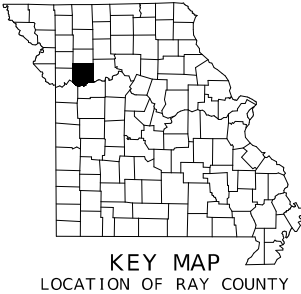
NO RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
RAY/CARROLL COUNTY

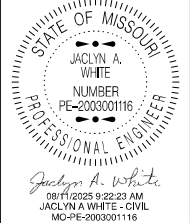


NOT TO SCALE

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) (2 SHEETS)---	2
QUANTITIES (QU) (8 SHEETS)-----	3
TRAFFIC CONTROL SHEETS (TC)-----	4-11



DATE PREPARED 8/6/2025	
ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 1
COUNTY RAY/CARROLL	
JOB NO. JKR0078	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

LENGTH OF PROJECT

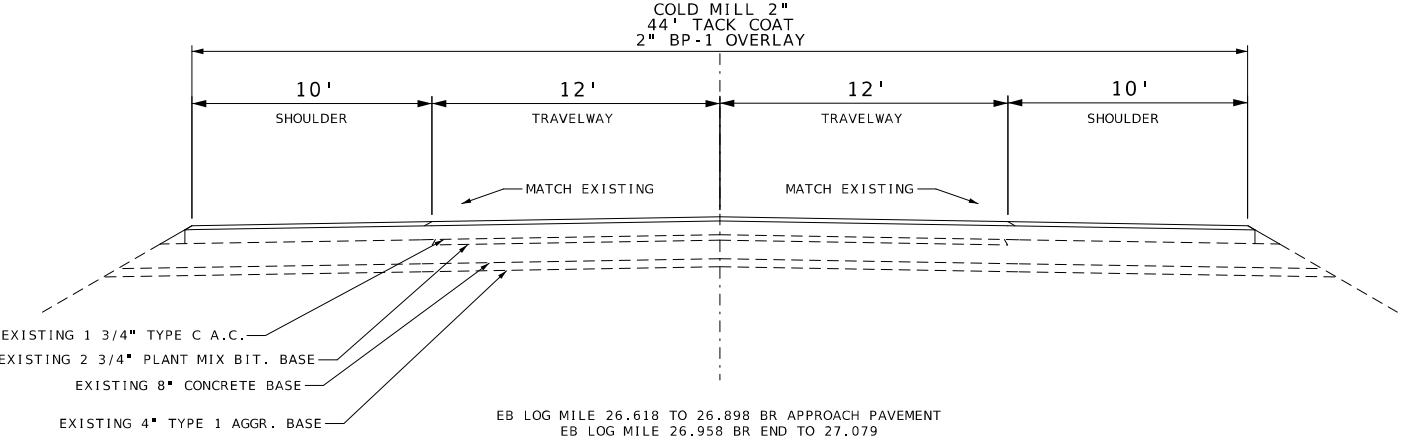
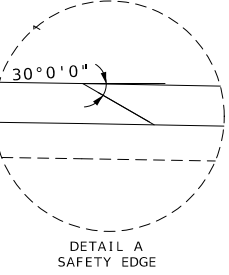
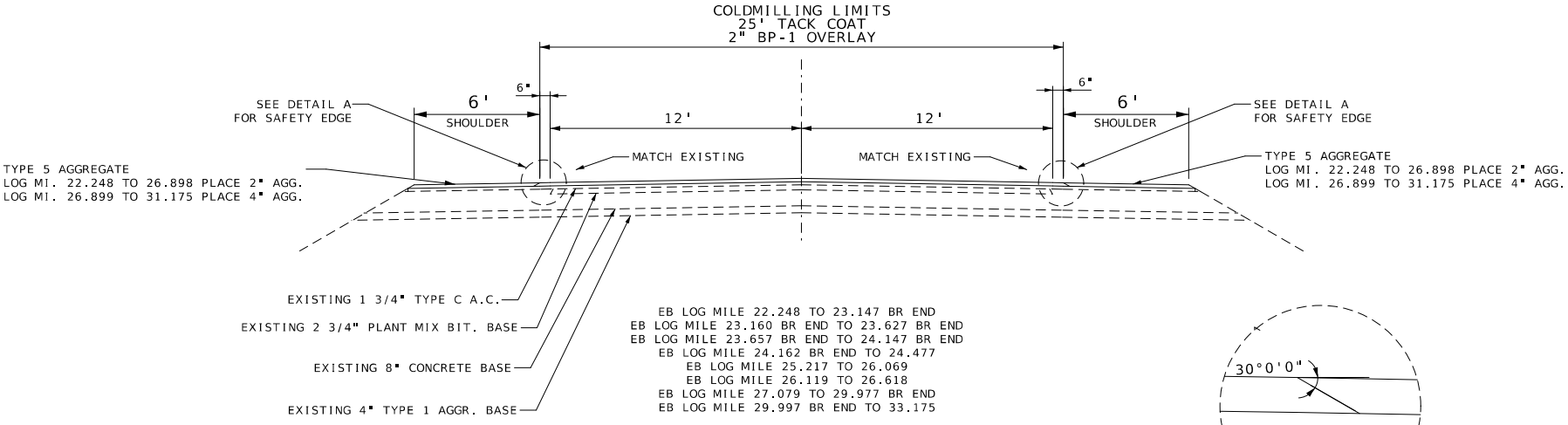
BEGINNING OF PROJECT	EB LM 22.248
END OF PROJECT	EB LM 33.175
APPARENT LENGTH	57694.56 FEET

EQUATIONS AND EXCEPTIONS:	
BR. B0315	EB LM 23.147 - 23.160 (68.64 FT)
BR. B0324	EB LM 23.627 - 23.657 (158.4 FT)
BR. B0322	EB LM 24.147 - 24.162 (79.20 FT)
BR. A4933	EB LM 24.737 - 24.836 (522.7 FT)
BR. A5142	EB LM 26.898 - 26.958 (316.8 FT)
BR. J0269	EB LM 29.977 - 29.997 (105.6 FT)

TOTAL CORRECTIONS	1177.42 FEET
NET LENGTH OF PROJECT	56559.38 FEET
STATE LENGTH	10.71 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES
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ESTIMATE FACTORS
BP-1LT PG 58-28H = 2.001 TON/CY
TACK = 0.1 SY/GAL
1.88 TON/CY



DATE PREPARED
8/6/2025

ROUTE	STATE
10	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
RAY / CARROLL

JOB NO.
JKR0078

CONTRACT ID.

PROJECT NO.

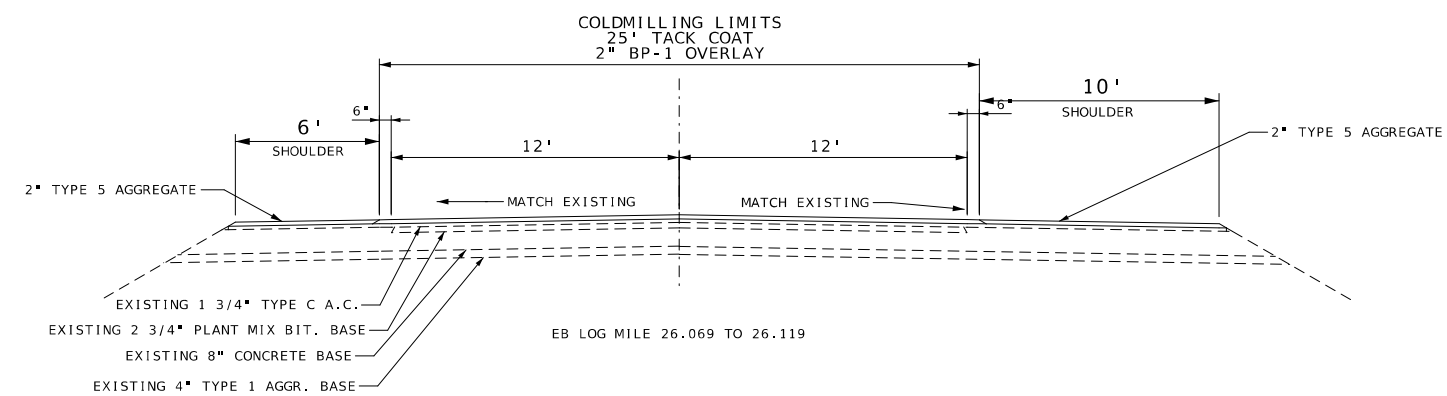
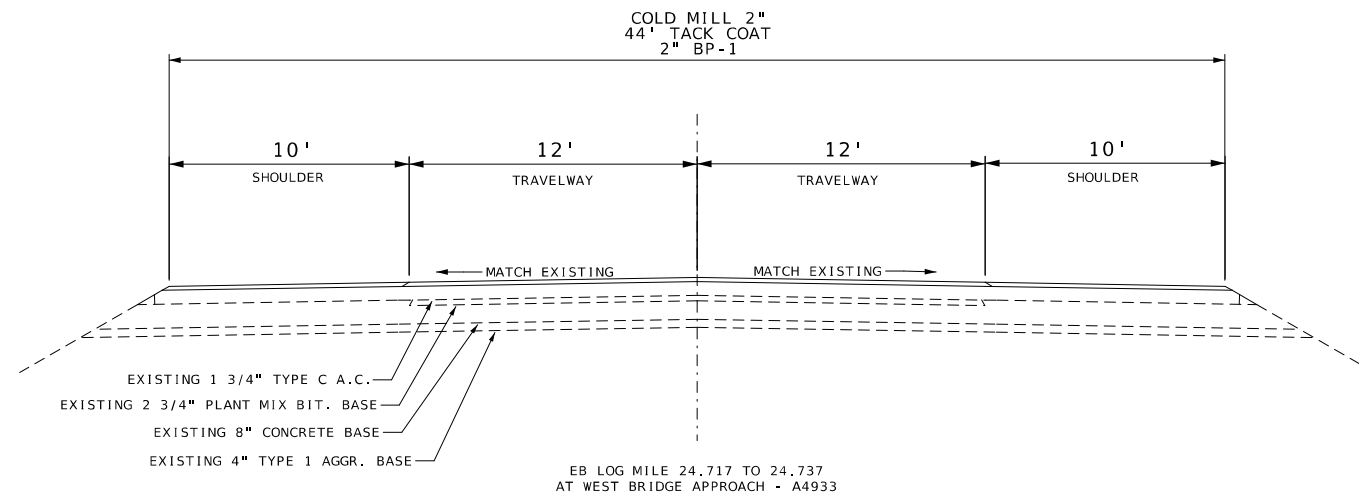
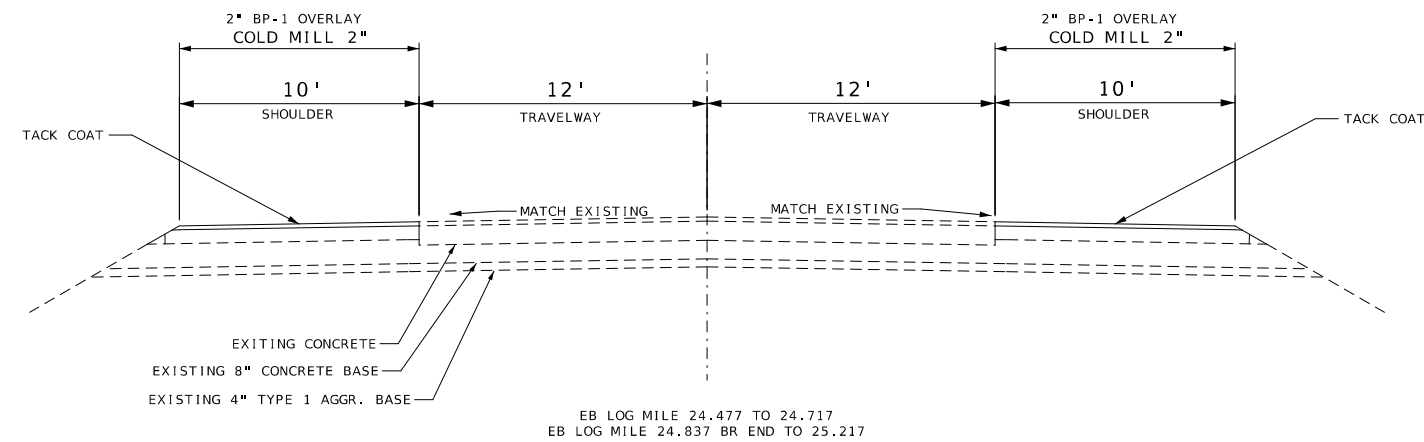
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TYPICAL SECTIONS
SHEET 2 OF 2



Jaclyn A. White
08/11/2025 9:34:43 AM
JACLYN A WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED
8/6/2025

ROUTE 10	STATE MO
-------------	-------------

DISTRICT	SHEET NO.
KC	2

COUNTY
RAY / CARROLL

JOB NO.
JKR0078

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

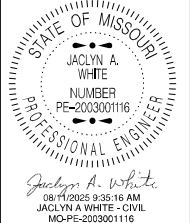
GUARDRAIL QUANTITIES					
LOG MILE	LOCATION	TYPE A CET (MASH) EA	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) EA	MGS HEIGHT AND BLOCK TRANSITION EA	COMMENTS
24.682	MO 10 RT	1		1	BR A4933 SW
24.686	MO 10 LT	1		1	BR A4933 NW
24.835	MO 10 LT	1		1	BR A4933 NE
24.838	MO 10 RT	1		1	BR A4933 SE
26.737	MO 10 LT	1	1	1	BR A5142 NW
26.744	MO 10 RT	1	1	1	BR A5142 SW
26.945	MO 10 LT	1		1	BR A5142 NE
26.948	MO 10 RT	1	1	1	BR A5142 SE
27.108	MO 10 LT	2		2	EAST OF MAIN ST
27.123	MO 10 RT	1		1	EAST OF MAIN ST
27.737	MO 10 RT	2		2	EAST OF SOUTH ST
PAY TOTALS		13	3	13	

PAVEMENT MARKING QUANTITIES					
LOG MILE	LOG MILE	LENGTH FT	6" WHITE CLASS 2 PVMT MARKING PAINT TYPE L BEADS FT	4" YELLOW CLASS 2 PVMT MARKING PAINT TYPE L BEADS FT	COMMENTS
22.25	22.39	739.2	1478.4	1478.4	TWO WHITE EDGELINES, DOUBLE SOLID YELLOW CENTERLINE
22.39	22.59	1056.0	2112.0	1320	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
22.59	24.06	7761.6	15523.2	1940	TWO WHITE EDGELINES, ONE BROKEN YELLOW CENTERLINE
24.06	24.18	633.6	1267.2	792	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
24.18	24.47	1531.2	3062.4	3062	TWO WHITE EDGELINES, DOUBLE SOLID YELLOW CENTERLINE
24.47	25.02	2904.0	5808.0	3630	TWO WHITE EDGELINES, ONE INTERMITTENT YELLOW CENTERLINE
25.02	25.45	2270.4	4540.8	4541	TWO WHITE EDGELINES, DOUBLE SOLID YELLOW CENTERLINE
25.45	25.81	1900.8	3801.6	2376	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
25.81	26.08	1425.6	2851.2	2851	TWO WHITE EDGELINES, DOUBLE SOLID YELLOW CENTERLINE
26.08	26.47	2059.2	4118.4	2574	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
26.47	27.09	3273.6	6547.2	6547	TWO WHITE EDGELINES, DOUBLE SOLID YELLOW CENTERLINE
27.09	27.25	844.8	1689.6	1056	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
27.25	27.53	1478.4	2956.8	370	TWO WHITE EDGELINES, ONE INTERMITTENT YELLOW CENTERLINE
27.53	27.65	633.6	1267.2	792	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
27.65	27.88	1214.4	2428.8	2428.8	TWO WHITE EDGELINES, DOUBLE SOLID YELLOW CENTERLINE
27.88	27.98	528.0	1056.0	660	TWO WHITE EDGELINES, ONE SOLID ONE INTERMITTENT YELLOW CENTERLINE
27.98	33.18	27456.0	54912.0	6864	TWO WHITE EDGELINES, ONE INTERMITTENT YELLOW CENTERLINE
TOTAL			115420.8	43282.2	
PAY TOTALS			115421.0	43282.0	

TEMPORARY
PVMT MARKING
ONE LUMP SUM

MOBILIZATION
ONE LUMP SUM

REMOVAL OF IMPROVEMENTS QUANTITIES			
LOG MILE	LOG MILE	ITEM	QUANTITY AND UNITS
24.682	24.739	GUARDRAIL	300 LF
24.686	24.736	GUARDRAIL	250 LF
24.835	24.885	GUARDRAIL	250 LF
24.838	24.88	GUARDRAIL	212.5 LF
26.737	26.899	GUARDRAIL	862.5 LF
26.744	26.897	GUARDRAIL	800 LF
26.945	27.051	GUARDRAIL	537.5 LF
26.948	26.997	GUARDRAIL	242 LF
27.108	27.248	GUARDRAIL	737.5 LF
27.123	27.238	GUARDRAIL	687.5 LF
27.737	27.803	GUARDRAIL	375 LF
			ONE LUMP SUM



DATE PREPARED
8/6/2025

ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 3

COUNTY
RAY/CARROLL

JOB NO.
JKR0078

CONTRACT ID.

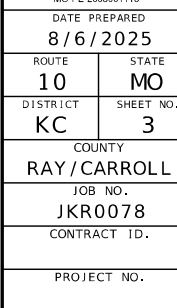
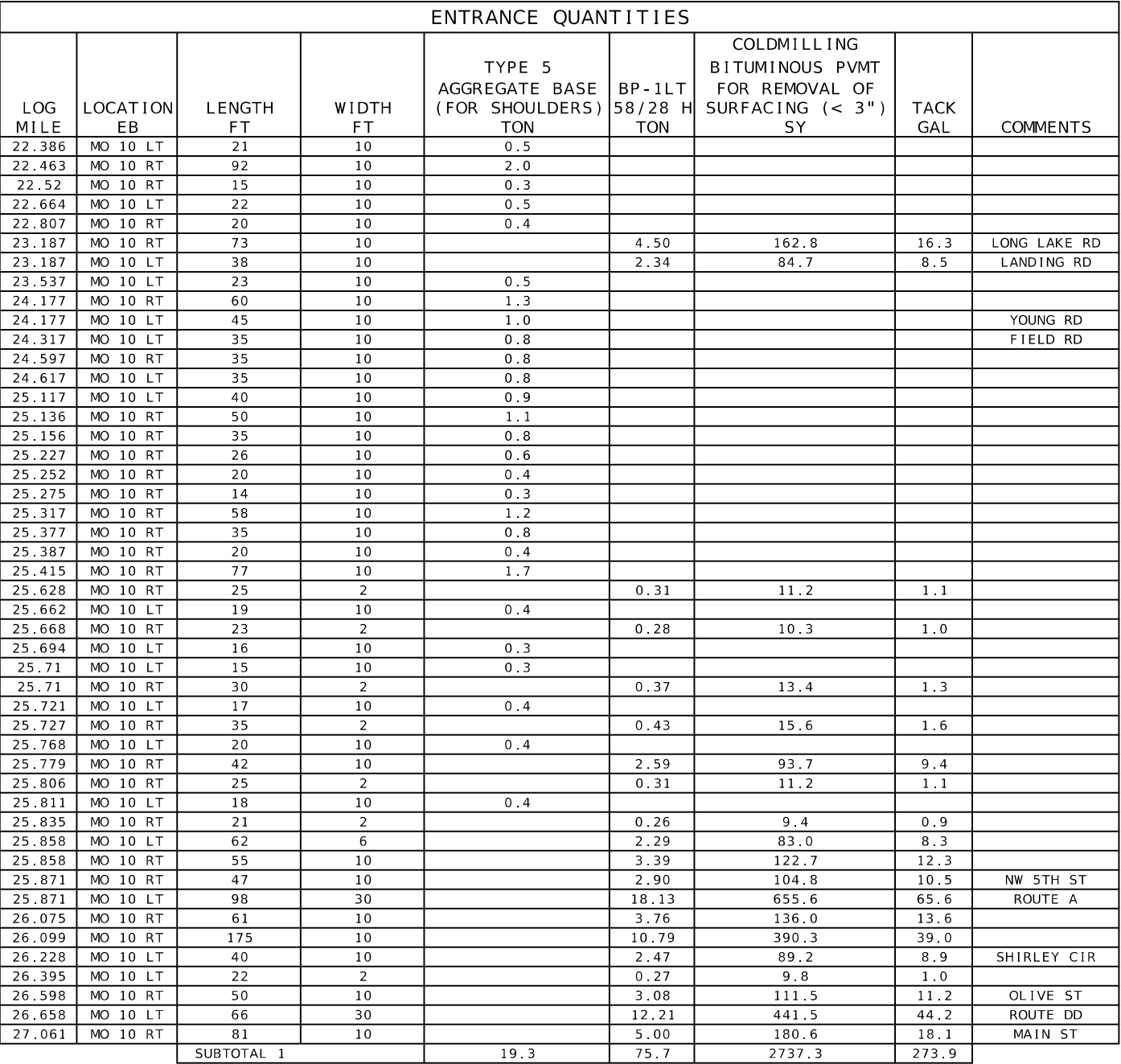
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE						

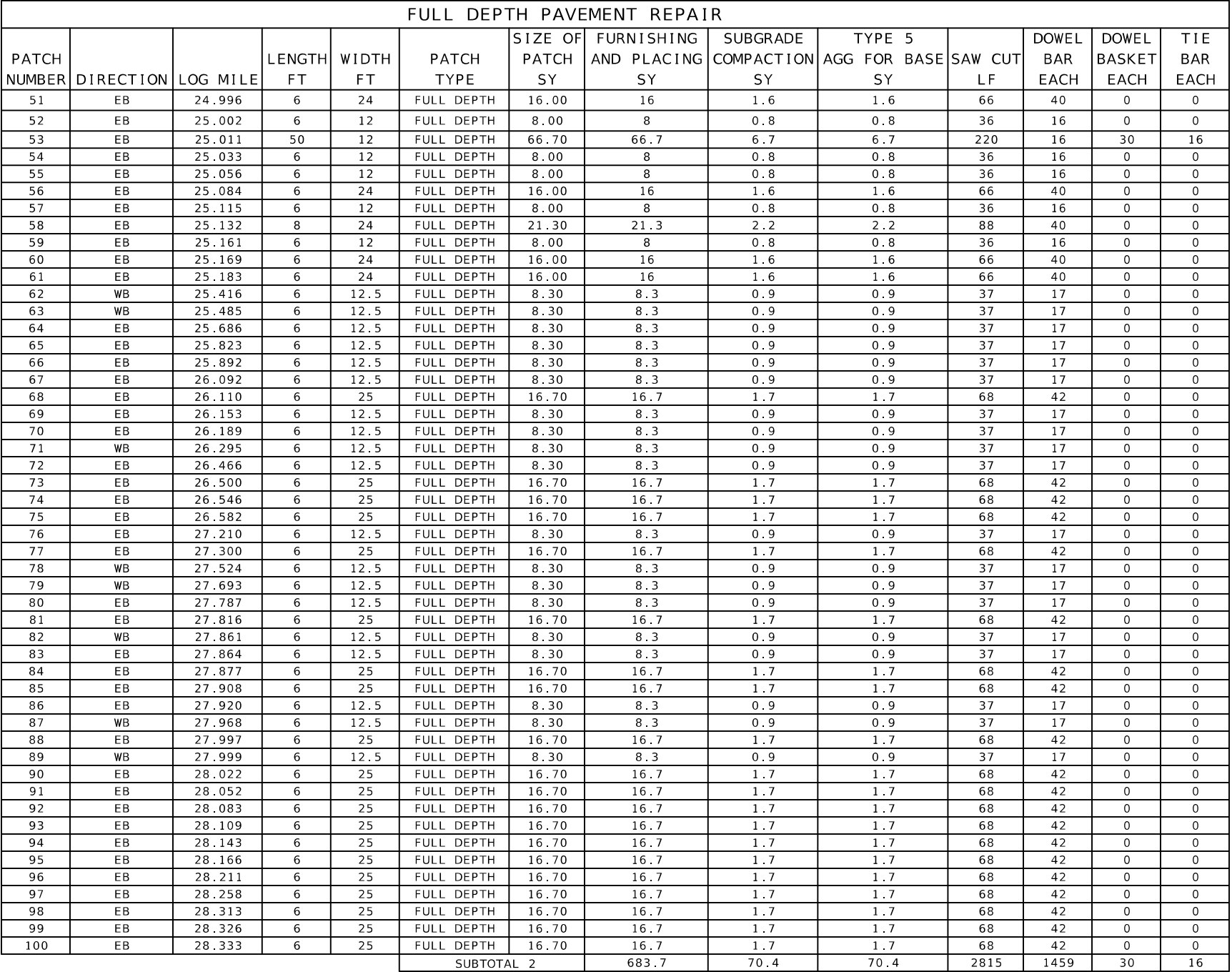
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

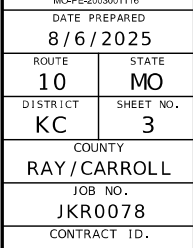
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102



SUMMARY OF QUANTITIES
SHEET 5 OF 8



		PROJECT NO.	
		BRIDGE NO.	
DESCRIPTION			
DATE			



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	ITEM	TOTAL	EFFECTIVE: 07-01-2025
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	IN.		SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	NUMBER	QTY		DESCRIPTION		
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16.00				END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50	1	4.50				PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75	15	131.25				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50	10	15.00				PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	1	6.00				WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		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)	6161020		CHANNELIZER (DRUM-LIKE)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	166	CHANNELIZER (TRIM-LINE)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TR1	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030		TYPE 3 MOVEABLE BARRICADE
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	2	24.00				SPEED LIMIT XX	6161040		FLASHING ARROW PANEL
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096	2	CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6161098A		INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)			TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)			TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)	6173706		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED	6174000A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6175010A		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	6175011B		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED	6175020A		TEMPORARY RAISED PAVEMENT MARKER
WO8-11	48X48	16.00	28	448.00				UNEVEN LANES	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD	9029400		TEMPORARY TRAFFIC SIGNALS
WO8-12	48X48	16.00	18	288.00				NO CENTER LINE	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-15	48X48	16.00						GROOVED PAVEMENT	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC			
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-3X	56X12	4.67						FINE SIGN			
WO8-17L	48X48	16.00	3	48.00				SHOULDER DROP-OFF (SYMBOL LEFT)	MISCELLANEOUS SIGNS											
WO8-17R	48X48	16.00	3	48.00				SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-5	48X36	12.00						POINT OF PRESENCE			
WO8-17P	30X24	5.00	6	30.00				SHOULDER DROP-OFF (PLAQUE)	CONST-5	96X48	32.00						POINT OF PRESENCE			
W10-1	42RND.	9.62						RAILROAD CROSSING	CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE			
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)												
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)												
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)												
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												
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)												
WO16-2	30X24	5.00						XXX FEET (PLAQUE)												
WO16-3	30X24	5.00						X MILE (PLAQUE)												
WO20-1	48X48	16.00	32	512.00				ROAD/BRIDGE/RAMP WORK AHEAD												
WO20-2	48X48	16.00						DETOUR AHEAD												
WO20-3	48X48	16.00						ROAD CLOSED AHEAD												
WO20-4	48X48	16.00	5	80.00				ONE LANE ROAD AHEAD	616-10.05	TOTAL										
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	CONSTRUCTION SIGNS				1804							
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10.10					TOTAL						
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED	RELOCATED SIGNS											
WO20-7a	48X48	16.00	4	64.00				FLAGGER (SYMBOL)												
WO21-2	36X36	9.00						FRESH OIL												
WO21-5	48X48	16.00	4	64.00				SHOULDER WORK / SHOULDER WORK AHEAD												
WO22-1	48X48	16.00						BLASTING ZONE AHEAD												
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE												
WO22-3	42X36	10.50						END BLASTING ZONE												
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)												

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

08/11/2025 9:40:59 AM

JACLYN A. WHITE - CIVIL

MO-P-E-2003001116

DATE PREPARED

8/6/2025

ROUTE

10

STATE

MO

DISTRICT

KC

SHEET NO.

3

COUNTY

RAY / CARROLL

JOB NO.

JKR0078

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES

SHEET 8 OF 8

Sign Spacing, Device Spacing
and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

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

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

• SIGN (DOUBLE SIDED)

◁ FLAGGER

▲ DIRECTION INDICATOR BARRICADE

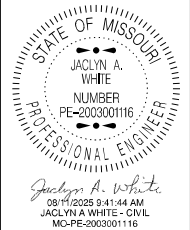
■ CHANNELIZER

E BARRICADE

CHANGEABLE MESSAGE BOARD

FLASHING ARROW PANEL

TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL



DATE PREPARED 8/6/2025	
ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 4
COUNTY RAY / CARROLL	
JOB NO. JKR0078	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



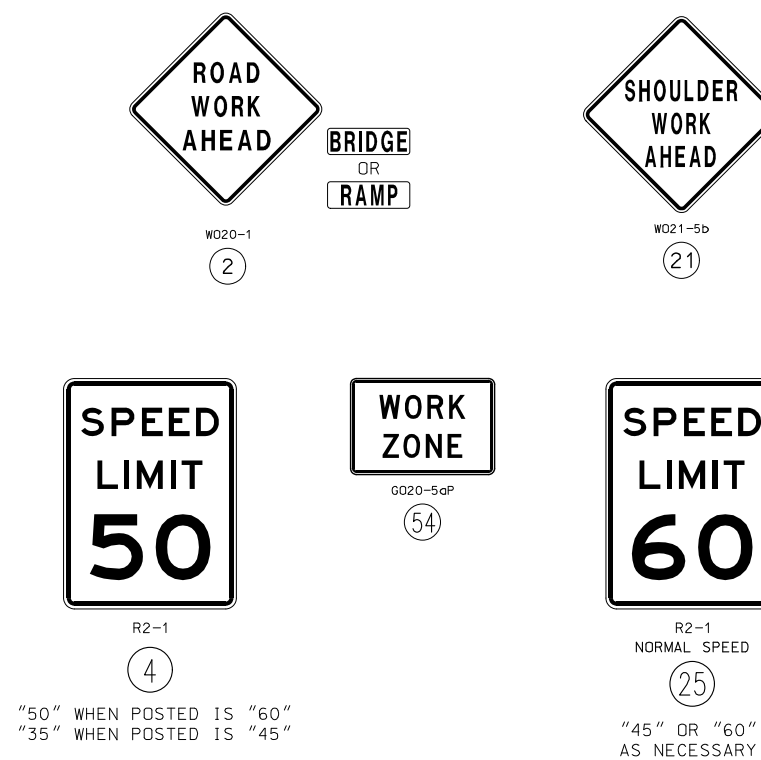
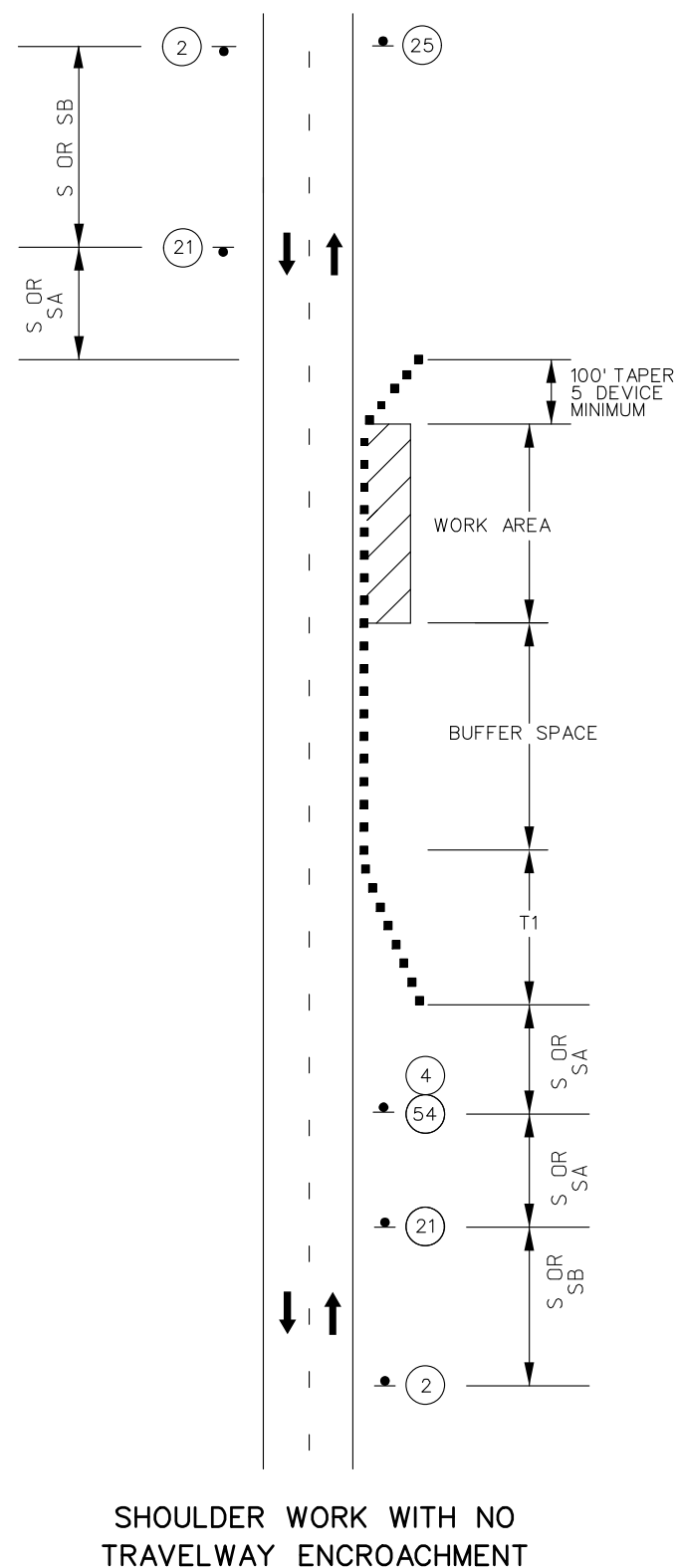
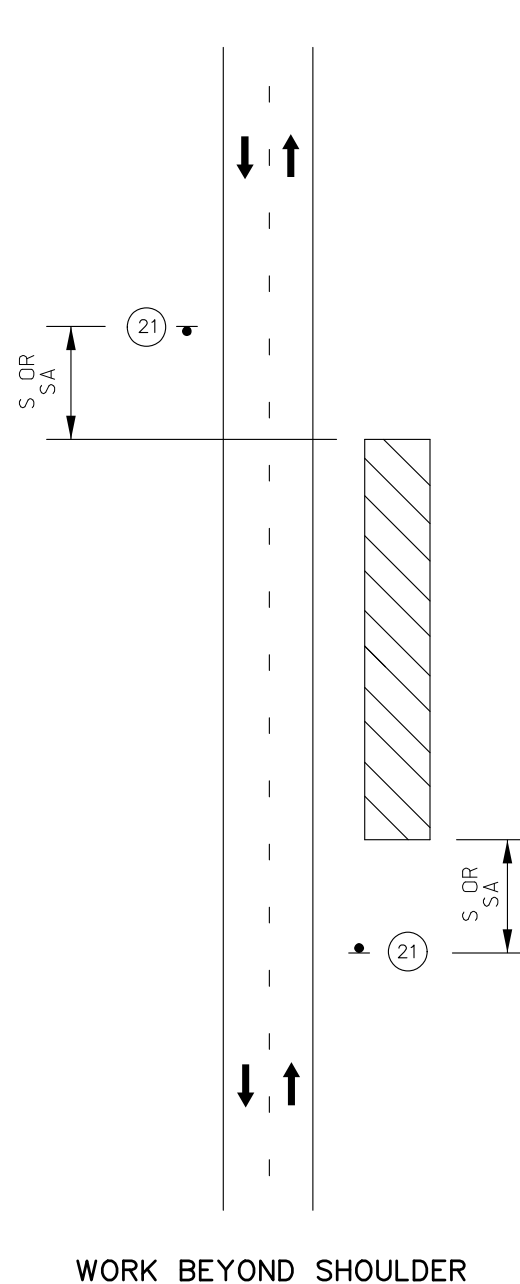
WORK AREA LIMITS

SIDE ROAD
 TEMPORARY
 TRAFFIC CONTROL
 SHEET 2 OF 8



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



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.

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN
THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER
SIGN 2 IS ALREADY USED.

PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.

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

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

ON MULTI-LANE, DIVIDED HIGHWAYS SIGNS ADVISING OF SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.

SHOULDER WORK
TEMPORARY
TRAFFIC CONTROL
SHEET 4 OF 8

[illegible]



ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROFLECTIVE SHEETING.

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

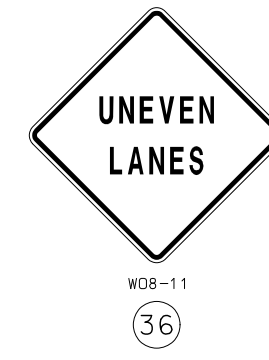
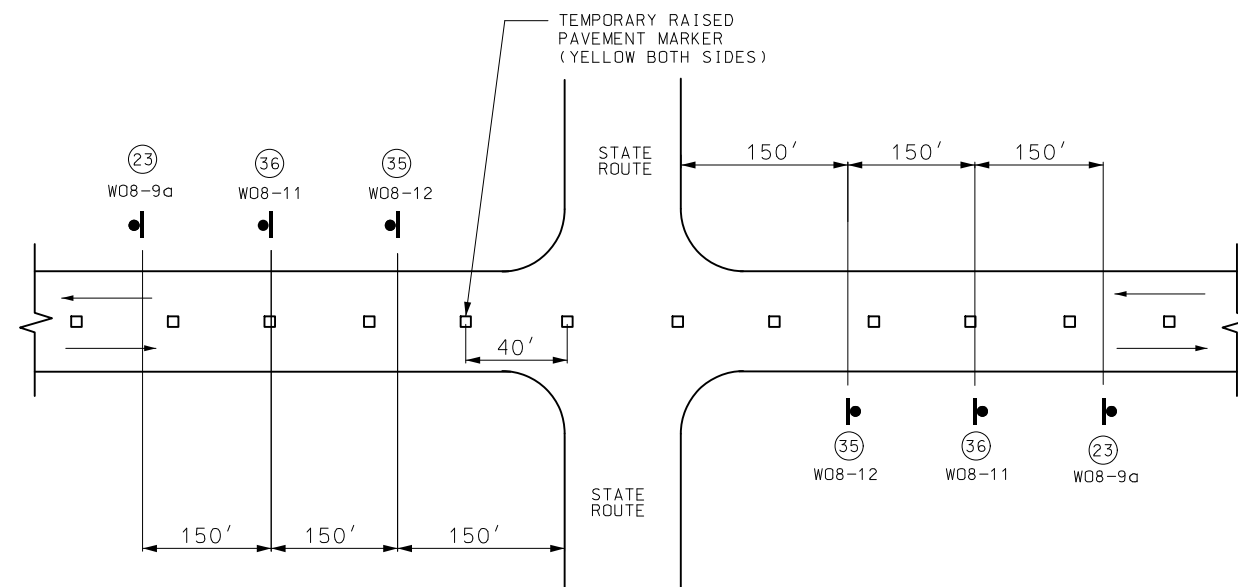
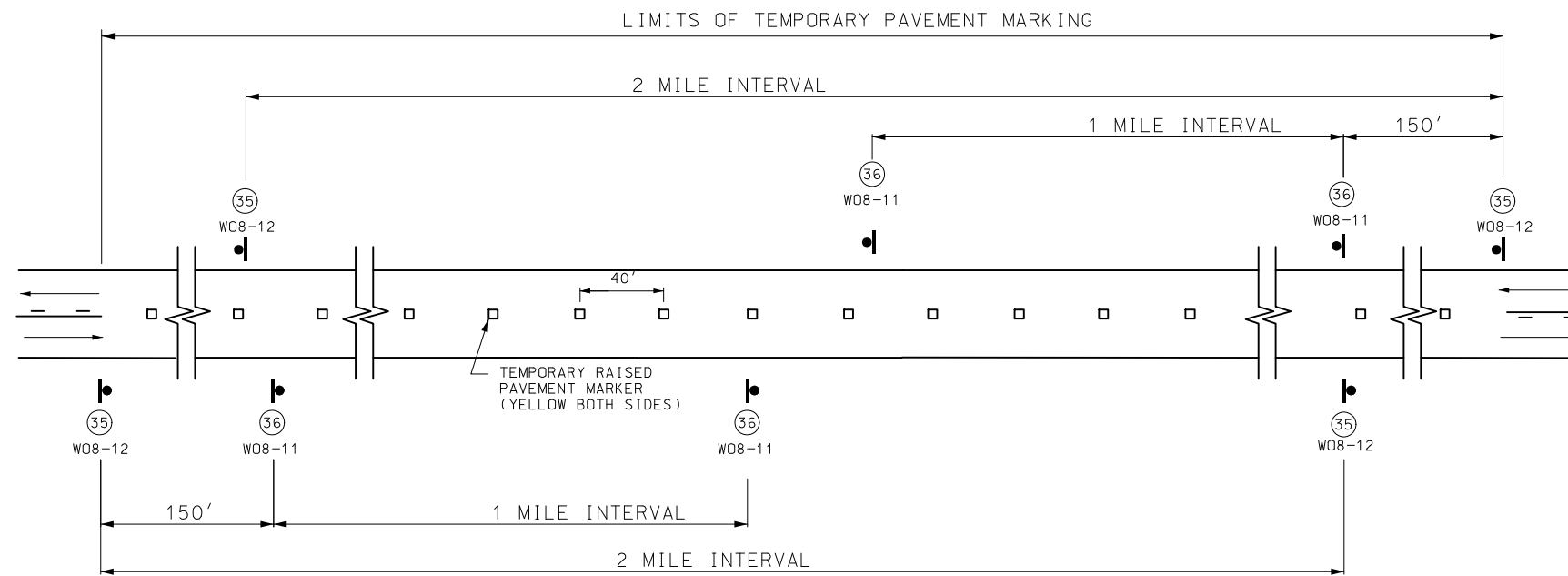
PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.

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

- (1). TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS 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). ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

MOVING OPERATION
OPEN TO TRAFFIC
TEMPORARY
TRAFFIC CONTROL
SHEET 5 OF 8





NOTES:

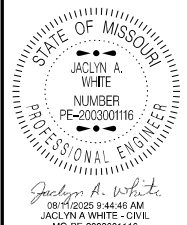
SIGN 35 AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

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 RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE END OF EACH DAY.

NO CENTER STRIPE
/UNEVEN LANES
TRAFFIC CONTROL
SHEET 6 OF 8



DATE PREPARED
8/6/2025

ROUTE 10	STATE MO
DISTRICT KC	SHEET NO. 9

COUNTY
RAY / CARROLL

JOB NO.
JKR0078
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

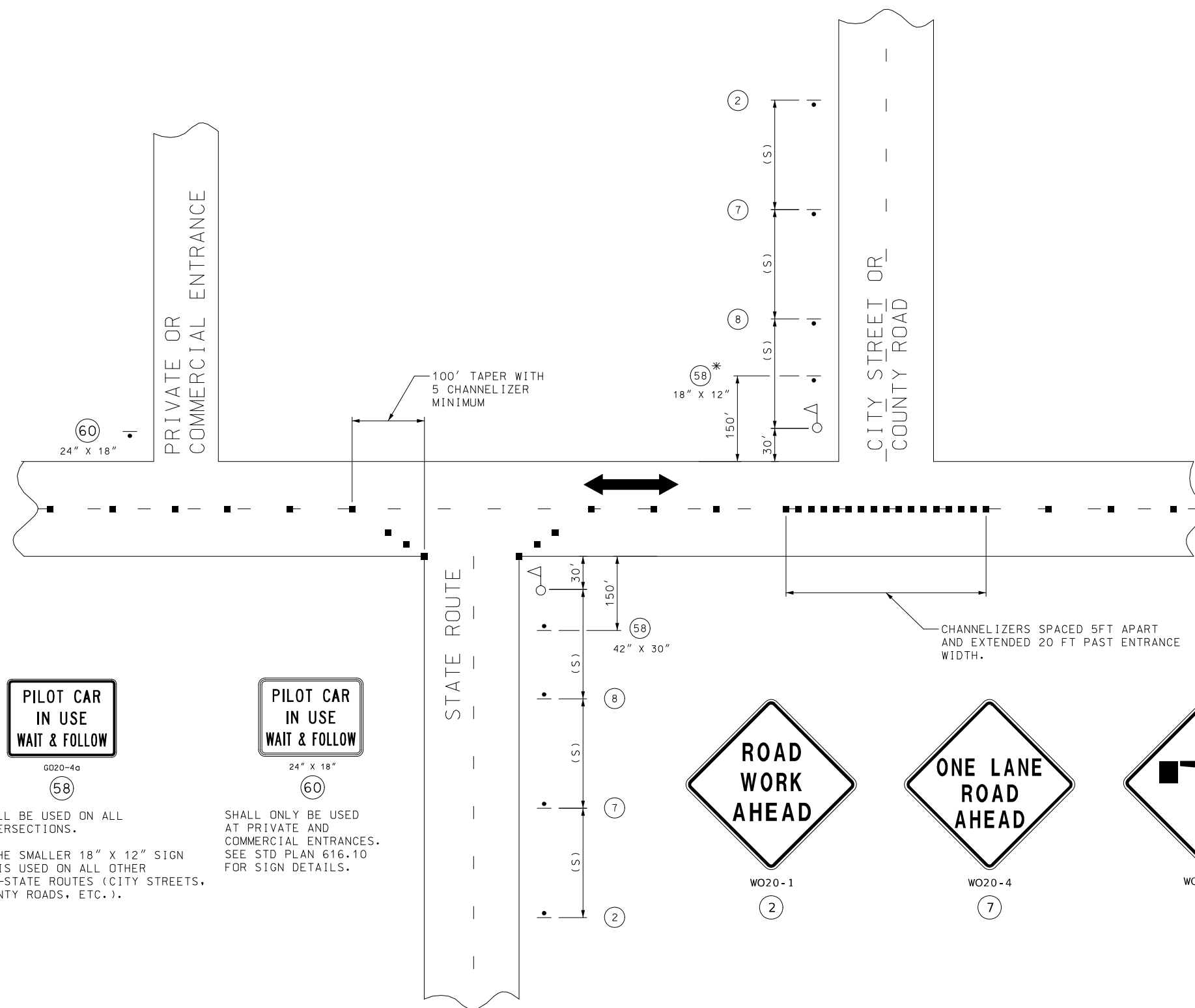
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TEMPORARY TRAFFIC CONTROL
SHEET 7 OF 8

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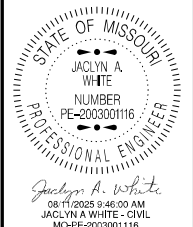
NOT TO SCALE



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.

TEMPORARY TRAFFIC CONTROL
SIDE ROADS
SHEET 8 OF 8



DATE PREPARED
8/6/2025

ROUTE 10	STATE MO
-------------	-------------

DISTRICT KC	SHEET NO. 11
----------------	-----------------

COUNTY
RAY / CARROLL

JOB NO.
JKR0078

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE, SR.
NUMBER
PE-2003015005
PROFESSIONAL ENGINEER

Benjamin Stephen McCabe, Sr.
08/07/2025 9:55:37 AM
BENJAMIN STEPHEN MCCABE SR - CIVIL
MO-PE-2003015005

DATE PREPARED
8/4/2025

ROUTE
J

STATE
MO

DISTRICT
KC

SHEET NO.
2

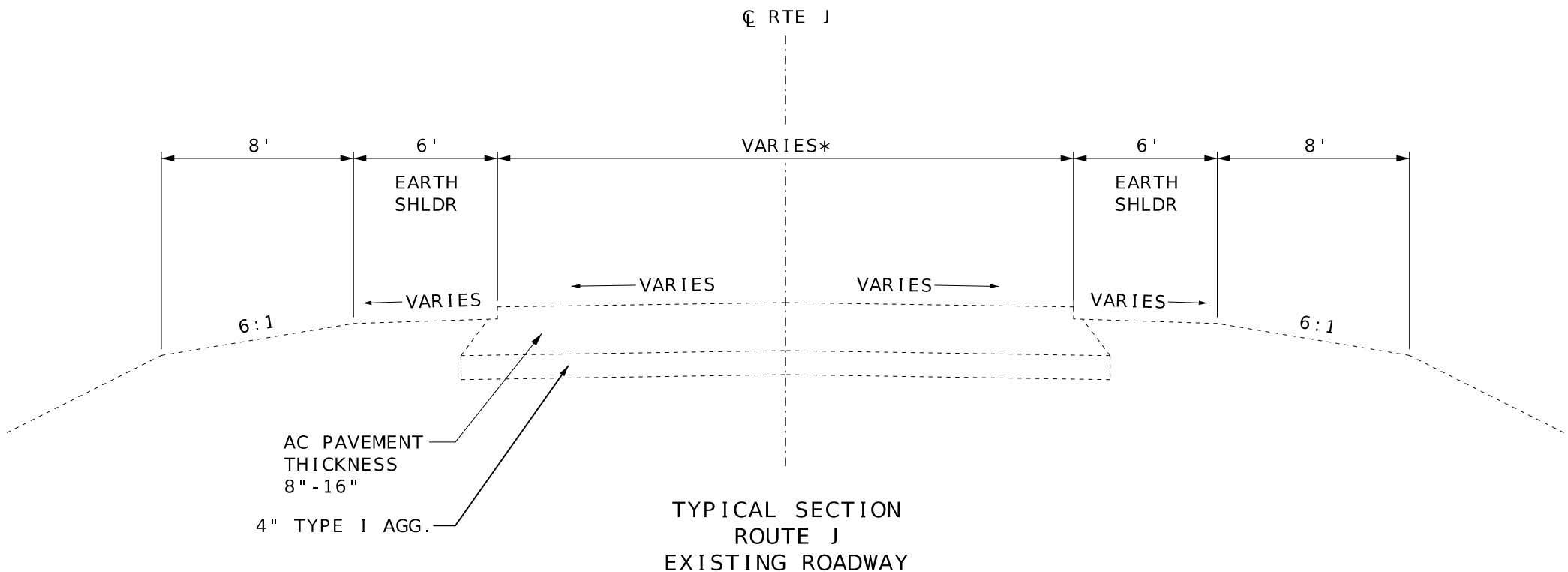
COUNTY
RAY

JOB NO.
JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TYPICAL SECTION
ROUTE J
EXISTING ROADWAY

*TRAVELWAY WIDTHS		
SB LOG MILE	SB LOG MILE	AVERAGE MAINLINE WIDTH
		FT
0.000	0.366	24
0.366	0.866	22
0.866	3.771	23
3.771	5.627	24
5.627	5.858	27
5.858	6.075	CONCRETE EXCEPTION
6.075	6.304	27
6.304	8.090	24
8.090	8.845	24

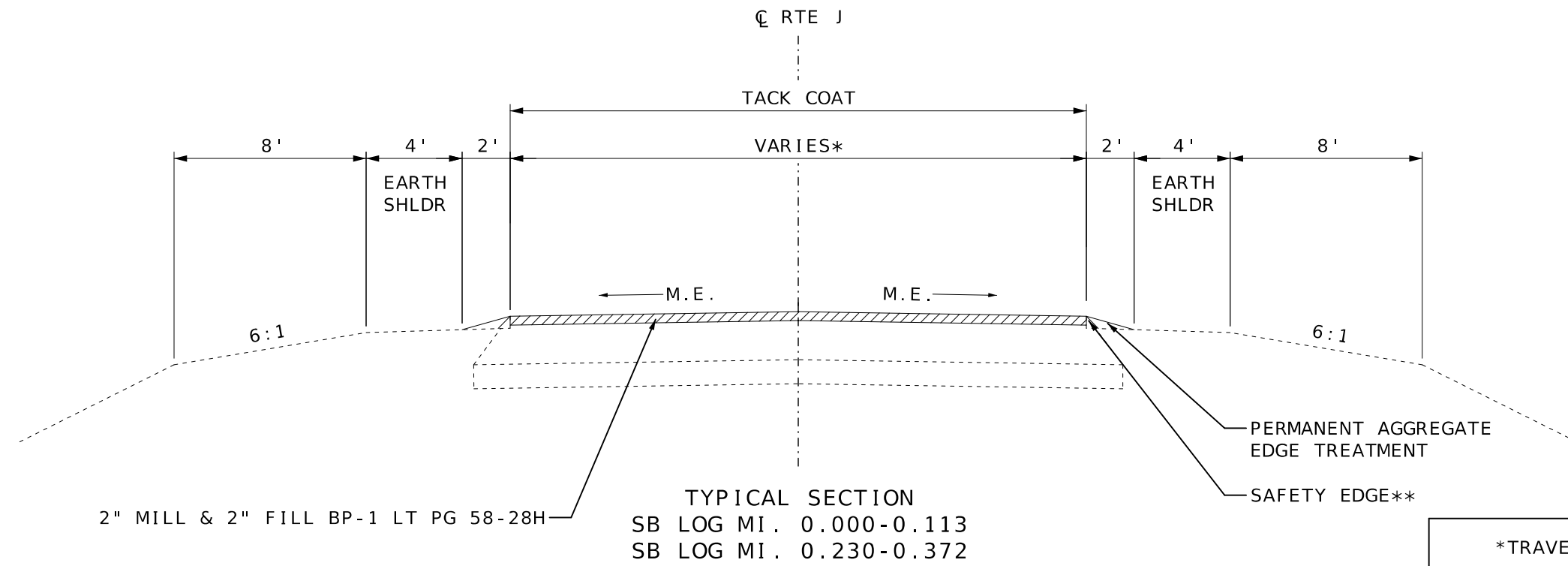
NOT TO SCALE

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

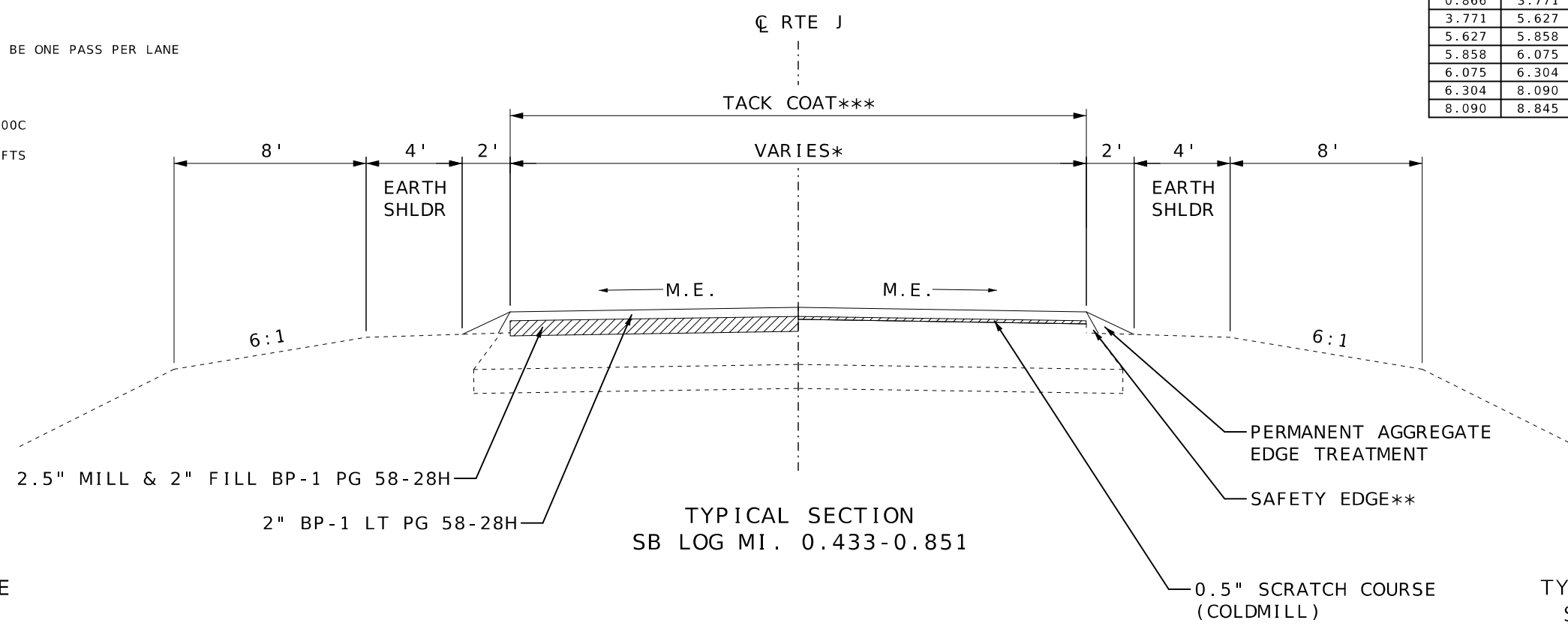
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ESTIMATE FACTORS FOR INFORMATION PURPOSES ONLY	
BP-1	2.001 TON/CY
PERMANENT AGGREGATE EDGE TREATMENT	2.244 TON/CY
TACK COAT (COLDMILLED SURFACE)	0.10 GAL/SY

NOTE:
 SURFACE PLACEMENT SHALL BE ONE PASS PER LANE
 NO S.E. CORRECTION.
 M.E.: MATCH EXISTING
 **SAFETY EDGE STD. 401.00C
 ***TACK COAT BETWEEN LIFTS

*TRAVELWAY WIDTHS		
SB LOG MILE	SB LOG MILE	AVERAGE MAINLINE WIDTH
		FT
0.000	0.366	24
0.366	0.866	22
0.866	3.771	23
3.771	5.627	24
5.627	5.858	27
5.858	6.075	CONCRETE EXCEPTION
6.075	6.304	27
6.304	8.090	24
8.090	8.845	24



NOT TO SCALE

TYPICAL SECTION
 SHEET 3 OF 3

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

08/07/2025 9:58:55 AM

BENJAMIN STEPHEN MCCABE SR. - CIVIL

MO-PE-2003015005

DATE PREPARED

8/4/2025

ROUTE

J

STATE

MO

DISTRICT

KC

SHEET NO.

2

COUNTY

RAY

JOB NO.

JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT													
SB LOG MILE	SB LOG MILE	LOCATION	LENGTH	AVERAGE TRAVELWAY WIDTH	< 3" COLDMILLING (2" THICK MILL)	< 3" COLDMILLING (0.5" SCRATCH COURSE)	2" BP-1 PG 58-28H FILL	2" BP-1 LT PG 58-28H OVERLAY	TACK COAT	PERMANENT AGGREGATE EDGE TREATMENT (INCLUDING ENTRANCES)			REMARKS
										AVG. WIDTH	AVG. DEPTH		
			FT	FT	SY	SY	TON	TON	GAL	FT	IN	TON	
0.000	0.033	ROUTE J	174.24	48	929.28	-	103.30	-	92.93	2.00	3.00	28.96	BEGIN PROJECT, INCLUDES BOTH RTE 10/RTE J JUNCTIONS
0.033	0.113	ROUTE J	422.40	24	1,126.40	-	176.87	-	112.64	2.00	3.00	35.11	TO 2ND SCHOOL ENT. (APPROX. 0.113 MI S/O RTE 10/RTE J JUNCTION)
0.113	0.226	ROUTE J	596.64	24	-	1,591.04	-	176.87	159.10	2.00	3.00	49.59	TO RR CROSSING (XING) BNSF (x2) EXCEPTION
0.230	0.366	ROUTE J	718.08	24	1,914.88	-	212.87	-	191.49	2.00	3.00	59.68	FROM RR XING BNSF (x2) EXCEPTION
0.366	0.372	ROUTE J	31.68	22	77.44	-	8.61	-	7.74	2.00	6.00	5.27	TO RR XING NORFOLK SOUTHERN EXCEPTION
0.374	0.433	ROUTE J	311.52	22	-	761.49	-	84.65	76.15	2.00	6.00	51.78	FROM RR XING NORFOLK SOUTHERN EXCEPTION
0.433	0.851	ROUTE J	2,207.04	22	2,697.49	2,697.49	299.87	299.87	1,079.00	2.00	6.00	366.86	NORTHBOUND RTE J 2.5" MILL & 2" FILL WITH 2" OVERLAY
0.851	0.866	ROUTE J	79.20	22	-	193.60	-	21.52	19.36	2.00	6.00	13.16	
0.866	3.541	ROUTE J	14,124.00	23	-	36,094.67	-	4,012.52	3,609.47	2.00	6.00	2,347.72	TO BR A2688 EXCEPTION
3.644	3.771	ROUTE J	670.56	23	-	1,713.65	-	190.50	171.37	2.00	6.00	111.46	FROM BR A2688 EXCEPTION
3.771	5.627	ROUTE J	9,799.68	24	-	26,132.48	-	2,905.06	2,613.25	2.00	6.00	1,628.92	
5.627	5.858	ROUTE J	1,219.68	27	-	3,659.04	-	406.76	365.90	2.00	6.00	202.74	TO CONCRETE AT RTE J & RTE 13 INTERCHANGE EXCEPTION
6.075	6.304	ROUTE J	1,209.12	27	-	3,627.36	-	403.24	362.74	2.00	3.00	100.49	FROM CONCRETE AT RTE J & RTE 13 INTERCHANGE EXCEPTION
6.304	8.000	ROUTE J	8,954.88	24	-	23,879.68	-	2,654.62	2,387.97	2.00	3.00	744.25	
8.000	8.024	ROUTE J	126.72	VARIES	-	816.67	-	10.09	81.67	2.00	3.00	10.53	TO INTER. RTE J & LEXINGTON RD (OLD RTE 13)
8.024	8.845	ROUTE J	4,334.88	24	-	11,559.68	-	1,285.05	1,155.97	2.00	3.00	360.28	TO CONCRETE EXCEPTION 0.725 MI FROM PROJECT END
LEXINGTON ROAD			50.00	24	-	133.33	-	14.82	13.33	2.00	3.00	4.16	
3 ASPHALT ENTRANCES			VARIES	VARIES	-	-	-	11.10	10.00	-	-	-	
11 ASPHALT CITY AND COUNTY ROADS			VARIES	VARIES	-	-	-	115.65	90.52	-	-	-	
2% FOR SAFETY EDGE (EXCLUDES ENTRANCES, CITY & COUNTY ROADS)					80.96	2,257.20	10.03	249.31	-	-	-	-	
SUBTOTAL					6,826.45	115,117.38	811.55	12,841.63	12,600.60	-	-	6,120.96	
PAY TOTAL					121,944		13,653.2		12,601	-	-	6,121	

PAVEMENT REPAIR														
LOG MILE	LOG MILE	LOCATION	LENGTH	AVERAGE TRAVELWAY WIDTH	DEPTH	FULL DEPTH					CLASS B PARTIAL DEPTH			REMOVALS
						FURNISHING AND PLACING CONC. MATERIAL	SUBGRADE COMPACTION (6" DEPTH)	TYPE 5 AGG. BASE (4" THICK)	FULL DEPTH SAW CUTS	DOWEL BAR	REMOVAL	FURNISHING AND PLACING	TACK COAT	
			FT	FT	IN	SY	SY	SY	LF	EA	SY	TON	GAL	
SOUTHBOUND														
8.076	8.077	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.112	8.113	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.275	8.276	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.321	8.322	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.459	8.460	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.675	8.676	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.720	8.721	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.793	8.794	ROUTE J	6	12	6	8	0.8	0.8	36	20				
8.844	8.845	ROUTE J	6	12	6	8	0.8	0.8	36	20				
NORTHBOUND														
0.727	0.728	ROUTE J	6	12	6	8	0.8	0.8	36	20				
0.773	0.774	ROUTE J	6	12	6	8	0.8	0.8	36	20				
0.907	0.908	ROUTE J	6	12	6	8	0.8	0.8	36	20				
0.988	0.989	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.157	1.158	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.206	1.207	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.394	1.395	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.439	1.44	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.483	1.484	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.497	1.498	ROUTE J	6	12	6	8	0.8	0.8	36	20				
1.535		ROUTE J									200	44.5	20	SOUTH RADIUS AT INTER. RTE J & LEXINGTON RD (OLD RTE 13)
SUBTOTAL						152	15.2	15.2	684	380	200	44.5	20	
PAY TOTAL						152	15	15	684	380	200	44.5	20	

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

08/07/2025 9:59:43 AM

BENJAMIN STEPHEN MCCABE SR - CIVIL

MO-PE-2003015005

DATE PREPARED

8/4/2025

ROUTE

J

STATE

MO

DISTRICT

KC

SHEET NO.

3

COUNTY

RAY

JOB NO.

JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES

SHEET 1 OF 3

MODIFIED COLDMILLING					
SB LOG MILE	SB LOG MILE	LOCATION	AVERAGE TRAVELWAY WIDTH	MODIFIED COLDMILLING	REMARKS
			FT	SY	
0.113	0.127	ROUTE J	24	200	FROM 2ND SCHOOL ENT. (APPROX. 0.113 MI S/O RTE 10/RTE J JUNCTION)
0.198	0.226	ROUTE J	24	400	TO RR CROSSING (XING) BNSF (x2) EXCEPTION
0.374	0.402	ROUTE J	22	367	FROM RR XING NORFOLK SOUTHERN EXCEPTION
3.527	3.541	ROUTE J	23	192	TO BR A2688 EXCEPTION
3.644	3.658	ROUTE J	23	192	FROM BR A2688 EXCEPTION
5.844	5.858	ROUTE J	27	225	TO CONCRETE AT RTE J & RTE 13 INTERCHANGE EXCEPTION
6.075	6.089	ROUTE J	27	225	FROM CONCRETE AT RTE J & RTE 13 INTERCHANGE EXCEPTION
8.831	8.845	ROUTE J	24	200	TO CONCRETE SECTION, 0.725 MI FROM PROJECT END
LEXINGTON RD			24	133	
3 ASPHALT ENTRANCES			VARIES	100	
11 ASPHALT CITY AND COUNTY ROADS			VARIES	358	
2 CONCRETE ENTRANCES			VARIES	38	
SUBTOTAL				2,630	
PAY TOTAL				2,630	

MOBILIZATION

1 = LUMP SUM

TEMPORARY PAVEMENT MARKING PAINT

1 = LUMP SUM

PAVEMENT MARKING								
SB LOG MILE	SB LOG MILE	LENGTH	4" YELLOW CLASS 1 P'VMT MARKING TYPE P BEADS	INTERMITTENT 4" YELLOW CLASS 1 P'VMT MARKING TYPE P BEADS	4" WHITE CLASS 1 P'VMT MARKING TYPE P BEADS	PREFORMED THERMOPLASTIC P'VMT MARKING 24" WHITE STOP BAR	PREFORMED THERMOPLASTIC P'VMT MARKING R/R CROSSING MARKER	REMARKS
		LF	LF	LF	LF	LF	EA	
0.000	0.459	2,503.52	5,007.04		5,007.04			BEGIN PROJECT, INCLUDES BOTH RTE 10/RTE J JUNCTIONS
0.207	0.216	50.00				24.00	1	RR CROSSING (XING) BNSF (x2) EXCEPTION
0.249	0.258	50.00				24.00	1	RR CROSSING (XING) BNSF (x2) EXCEPTION
0.353	0.362	50.00				22.00	1	RR XING NORFOLK SOUTHERN EXCEPTION
0.393	0.402	50.00				22.00	1	RR XING NORFOLK SOUTHERN EXCEPTION
0.459	0.680	1,166.88	1,166.88	292.00	2,333.76			
0.680	2.774	11,056.32		2,765.00	22,112.64			
2.774	2.912	728.64	728.64	183.00	1,457.28			
2.912	3.360	2,365.44	4,730.88		4,730.88			
3.360	3.525	871.20	871.20	218.00	1,742.40			
3.525	3.735	1,108.80	2,217.60		2,217.60			
3.735	3.848	596.64	596.64	150.00	1,193.28			
3.848	5.585	9,171.36		2,293.00	18,342.72			
5.585	5.719	707.52	707.52	177.00	1,415.04			
5.719	6.261	2,861.76	5,723.52		5,723.52			INCLUDES CONCRETE AT RTE J & RTE 13 INTERCHANGE EXCEPTION
6.261	6.399	728.64	728.64	183.00	1,457.28			
6.399	6.619	1,161.60		291.00	2,323.20			
6.619	6.697	411.84	411.84	103.00	823.68			
6.697	7.056	1,895.52	3,791.04		3,791.04			
7.056	7.117	322.08	322.08	81.00	644.16			
7.117	7.937	4,329.60		1,083.00	8,659.20			
7.937	8.014	406.56	813.12		813.12			
8.014						18.00		INTERSECTION RTE J & LEXINGTON RD (OLD RTE 13)
8.020	8.058	200.64	401.28		401.28			
8.058	8.179	638.88	638.88	160.00	1,277.76			
8.179	8.334	818.40	1,636.80		1,636.80			
8.334	8.423	469.92	469.92	118.00	939.84			
8.423	8.994	3,014.88		754.00	6,029.76			INCLUDES CONCRETE EXCEPTION, 0.725 MI FROM PROJECT END
8.994	9.169	924.00	924.00	231.00	1,848.00			CONCRETE EXCEPTION
9.169	9.286	617.76	1,235.52		1,235.52			CONCRETE EXCEPTION
9.286	9.570	1,499.52	1,499.52	375.00	2,999.04			CONCRETE EXCEPTION
SUBTOTAL			34,622.56	9,457.00	101,155.84	110.00	4.00	
PAY TOTAL			44,080		101,156	110	4	

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe, Inc.

08/11/2025 7:44:18 AM

BENJAMIN STEPHEN MCCABE SR - CIVIL

MO-PE-2003015005

DATE PREPARED

8/8/2025

ROUTE

J

STATE

MO

DISTRICT

KC

SHEET NO.

3

COUNTY

RAY

JOB NO.

JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

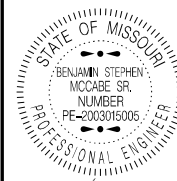
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

WARNING SIGNS									GUIDE SIGNS									ITEM NUMBER		TOTAL QTY	EFFECTIVE: 07-01-2024	
SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION	SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION	ITEM NUMBER	TOTAL QTY	DESCRIPTION		
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)		
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)		
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT 10 MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)		
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16.00				END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)		
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50	1	4.50				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	2	17.50				PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)		
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50	18	27.00				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL		
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00						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		TRUCK MOUNTED ATTENUATOR (TMA)		
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-8a	24X18	3.00						END DETOUR	6161008		ADVANCED WARNING RAIL SYSTEM		
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6161012		BUOYS (BOATS KEEP OUT)		
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161013		BUOYS (NO WAKE)		
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)		
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161025	429	CHANNELIZER (TRIM LINE)		
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161030		TYPE III MOVEABLE BARRICADE		
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	REGULATORY SIGNS									6161033		DIRECTION INDICATOR BARRICADE		
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-1	48X48	13.25						STOP	6161040		FLASHING ARROW PANEL		
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2	48TRI	6.93						YIELD	6161047		TYPE III OBJECT MARKER		
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT		
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161070		TUBULAR MARKER		
WO3-4	48X48	16.00	2	32.00				BE PREPARED TO STOP	R2-1	36X48	12.00						SPEED LIMIT XX	6161095		RADAR SPEED ADVISORY SYSTEM		
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN,		
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)			COMMISSION FURNISHED/RETAINED		
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-3	36X36	9.00						NO TURNS	6161098A	3	CHANGEABLE MESSAGE SIGN WITHOUT COMM.		
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)			INTERFACE- CONTRACTOR FURNISHED/RETAINED		
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161099		CHANGEABLE MESSAGE SIGN WITH COMM.		
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT			INTERFACE- CONTRACTOR FURNISHED/RETAINED		
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-1	36X48	12.00						DO NOT PASS	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM		
WO5-5	48X48	16.00						NARROW LANES	R4-2	36X48	12.00						PASS WITH CARE	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS		
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6173600D		TEMPORARY TRAFFIC BARRIER		
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)			CONTRACTOR FURNISHED/RETAINED		
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6173602B		TEMPORARY TRAFFIC BARRIER		
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R5-1a	36X24	6.00						WRONG WAY	6174000A		CONTRACTOR FURNISHED/COMMISSION RETAINED		
WO8-1	48X48	16.00						BUMP	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6175010A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		
WO8-2	48X48	16.00						DIP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)			RELOCATING TEMPORARY TRAFFIC BARRIER		
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2L	24X30	5.00						ONE WAY (LEFT)	6176000B		TEMPORARY TRAFFIC BARRIER		
WO8-4	48X48	16.00						SOFT SHOULDER	R6-2R	24X30	5.00						ONE WAY (RIGHT)			COMMISSION FURNISHED/RETAINED		
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-9	24X12	2.00						SIDEWALK CLOSED	6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			COMMISSION FURNISHED/RETAINED		
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6208064A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		
WO8-7	36X36	9.00						LOOSE GRAVEL	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)			COMMISSION FURNISHED/RETAINED		
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED	9029400		TEMPORARY RAISED PAVEMENT MARKER		
WO8-9	48X48	16.00						LOW SHOULDER	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD	9029401		TEMPORARY TRAFFIC SIGNALS		
WO8-11	48X48	16.00	20	320.00				UNEVEN LANES	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY			TEMPORARY TRAFFIC SIGNALS AND LIGHTING		
WO8-12	48X48	16.00	10	160.00				NO CENTER LINE	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC					
WO8-15	48X48	16.00						GROOVED PAVEMENT	CONST-3X	56X12	4.67						FINE SIGN					
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	MISCELLANEOUS SIGNS													
WO8-17L	48X48	16.00	23	368.00				SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	48X36	12.00						POINT OF PRESENCE	616-10.05		POINT OF PRESENCE		
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-5	96X48	32.00						POINT OF PRESENCE			WORK ZONE NO PHONE ZONE		
WO8-17P	30X24	5.00	23	115.00				SHOULDER DROP-OFF (PLAQUE)	CONST-8	48X36	12.00	2	24.00									
W10-1	42RND.	9.62						RAILROAD CROSSING														
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)														
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)														
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)														
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														
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)														
WO16-2	30X24	5.00						XXX FEET (PLAQUE)														
WO16-3	30X24	5.00						X MILE (PLAQUE)														
WO20-1	48X48	16.00	22	352.00				ROAD/BRIDGE/RAMP WORK AHEAD														
WO20-2	48X48	16.00						DETOUR AHEAD														
WO20-3	48X48	16.00						ROAD CLOSED AHEAD	616-10.05			TOTAL										
WO20-4	48X48	16.00	4	64.00				ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS			1625										
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10					TOTAL								
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCATED SIGNS					0								
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED														
WO20-7a	48X48	16.00	6	96.00				FLAGGER (SYMBOL)														
WO21-2	36X36	9																				

NOT TO SCALE



Benjamin Stephen McCabe
08/07/2025 10:12:27 AM
BENJAMIN STEPHEN MCCABE SR - CIVIL
MO-PE-2003015005

DATE PREPARED
8/4/2025

ROUTE J	STATE MO
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DISTRICT	SHEET NO
KC	5

COUNTY
RAY

JOB NO.
JKU0419

CONTRACT ID.

PROJECT NO.

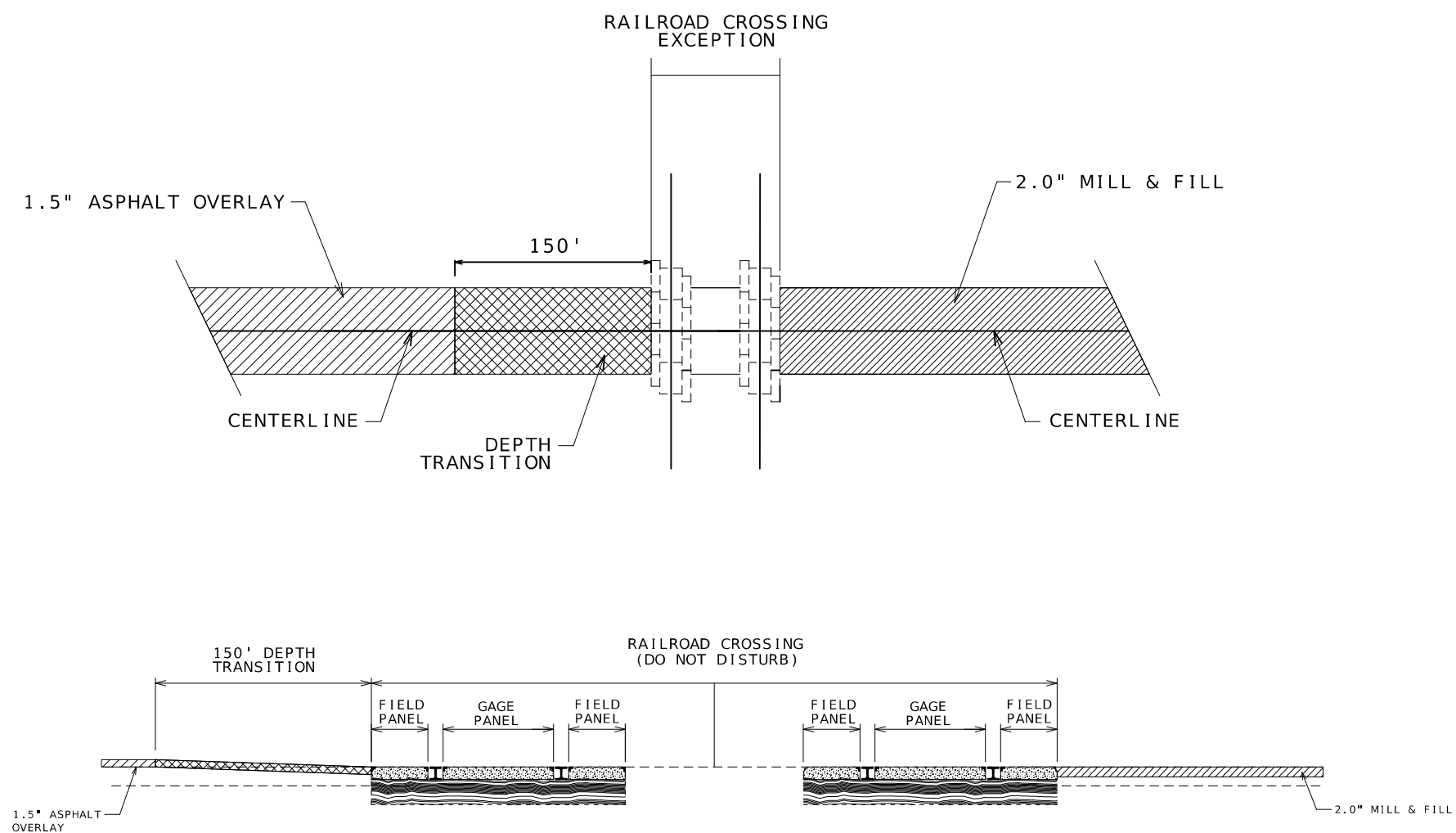
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



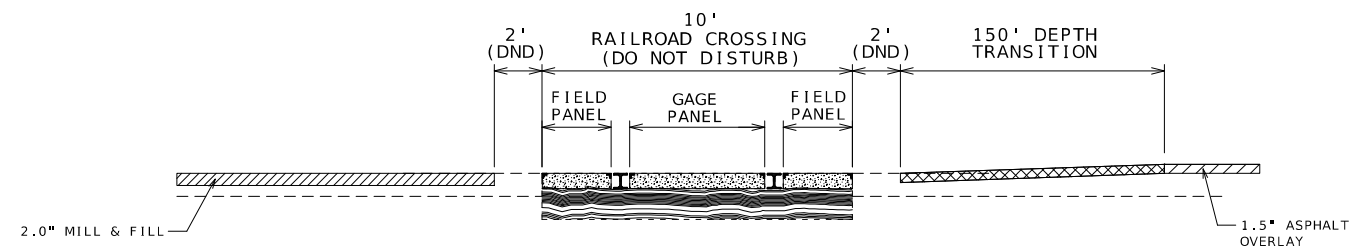
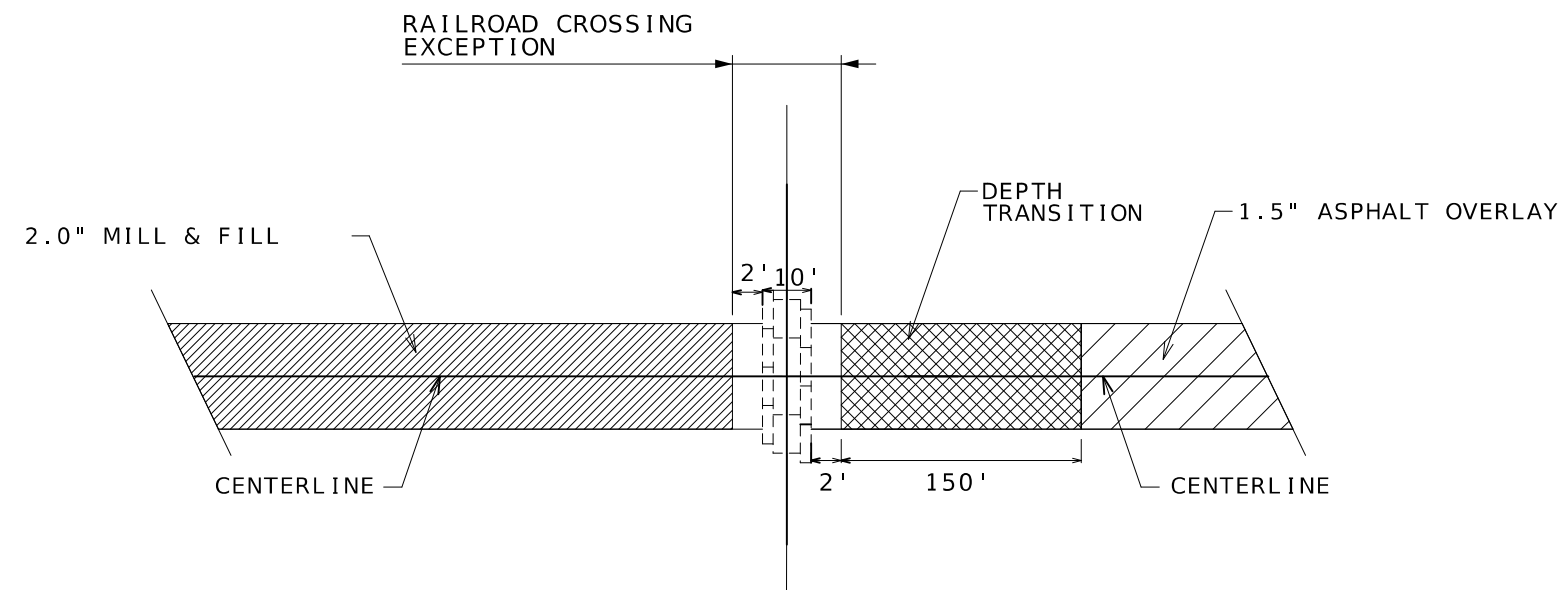
105 WEST CAPITOL
JEFFERSON CITY, MO 65102



RAILROAD CROSSING LOG MI. 0.226 TO 0.230
BNSF RAILWAY DOT# 005334A MP 405.41 MARCELINE SUBDIVISION

SPECIAL SHEET
PAVEMENT TRANSITIONS
SHEET 2 OF 3

NOT TO SCALE



RAILROAD CROSSING LOG MI. 0.372 TO 0.374
NORFOLK SOUTHERN RAILWAY DOT# 483832A MP S-229.46 MIDWEST DIVISION

SPECIAL SHEET
PAVEMENT TRANSITIONS
SHEET 3 OF 3



DATE PREPARED
8/4/2025

ROUTE J	STATE MO
------------	-------------

DISTRICT	SHEET NO.
KC	6

COUNTY
RAY

JOB NO.
JKU0419

CONTRACT ID.

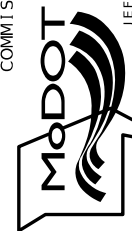
PROJECT NO.

1000

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

08/07/2025 10:16:44 AM

BENJAMIN STEPHEN MCCABE SR - CIVIL

MO-PE-2003015005

DATE PREPARED

8/4/2025

ROUTE

J

STATE

MO

DISTRICT

KC

SHEET NO.

8

COUNTY

RAY

JOB NO.

JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Diagram illustrating the traffic control setup for a one-lane road during resurfacing. The setup includes four sign sets (1, 2, 3, 4) and a flagger. The diagram shows the placement of signs (2, 7, 8) and the flagger (GO20-4) relative to the work area, taper, and buffer space. The sign sets are labeled as SET 1 ACTIVE, SET 2 INACTIVE, SET 3 ACTIVE, and SET 4 INACTIVE. The diagram also shows the placement of channelizers and the flagger.

NOTES:

CONFLICTING SIGNS SHALL BE COVERED.

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.

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

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 SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

- - CHANNELIZERS
- ◁ - FLAGGER

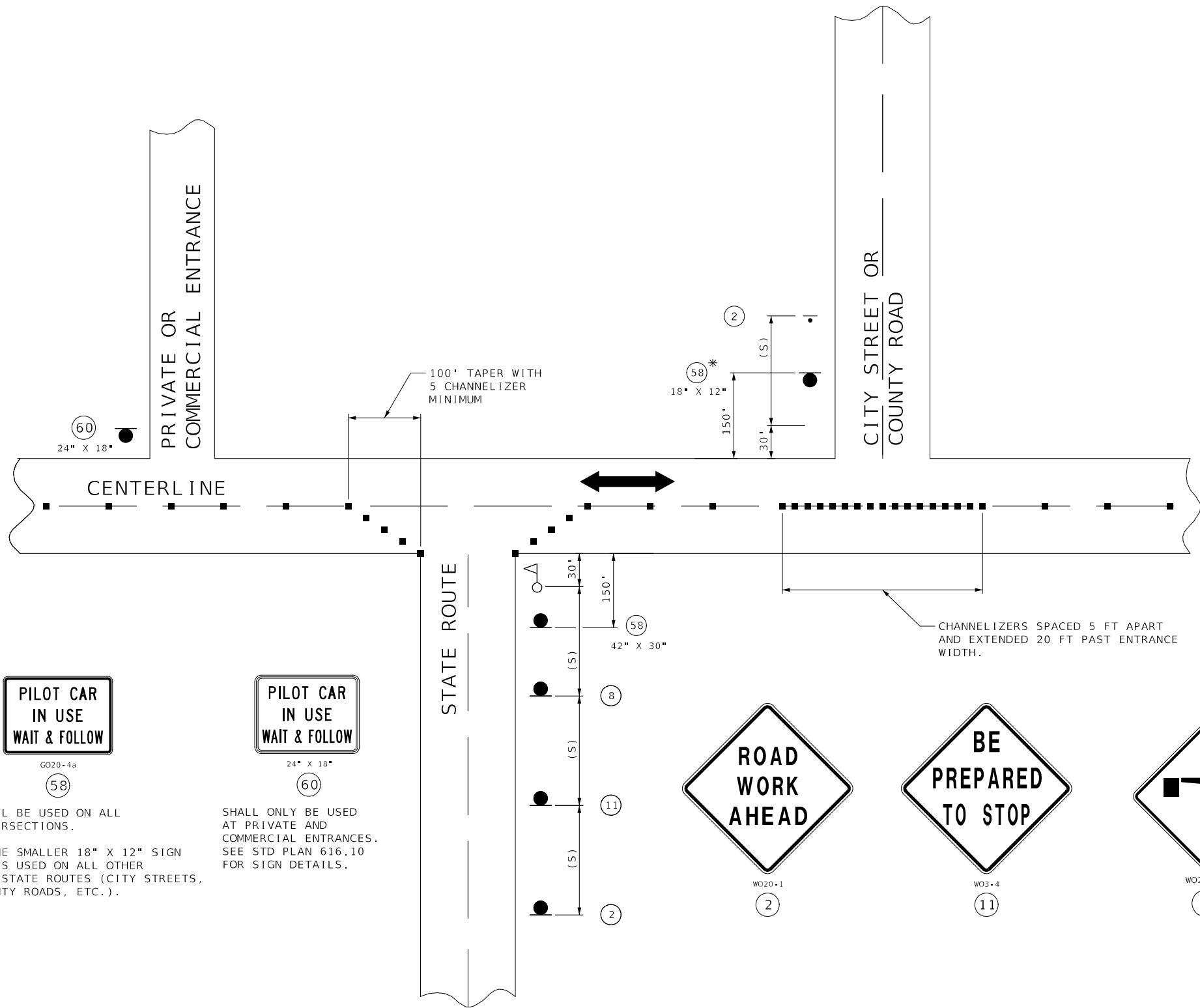
NOT TO SCALE

SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL
SHEET 2 OF 5



NOT TO SCALE

SIDE ROADS ENTERING WORK ZONES

TRAFFIC CONTROL
SHEET 3 OF 5

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	BUFFER/ WORK AREA (TYP.)
0-35	200	40
40-45	350	80
50-55	500	80
60-70	1000	120

- (1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.
- SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

- NOTES:
- CONFLICTING SIGNS SHALL BE COVERED.
- 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)
- △ - FLAGGER

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

BENJAMIN STEPHEN MCCABE SR.

08/07/2025 10:17:30 AM

BENJAMIN STEPHEN MCCABE SR., CIVIL

MO-PE-2003015005

DATE PREPARED

8/4/2025

ROUTE

J

STATE

MO

DISTRICT

KC

SHEET NO.

9

COUNTY

RAY

JOB NO.

JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

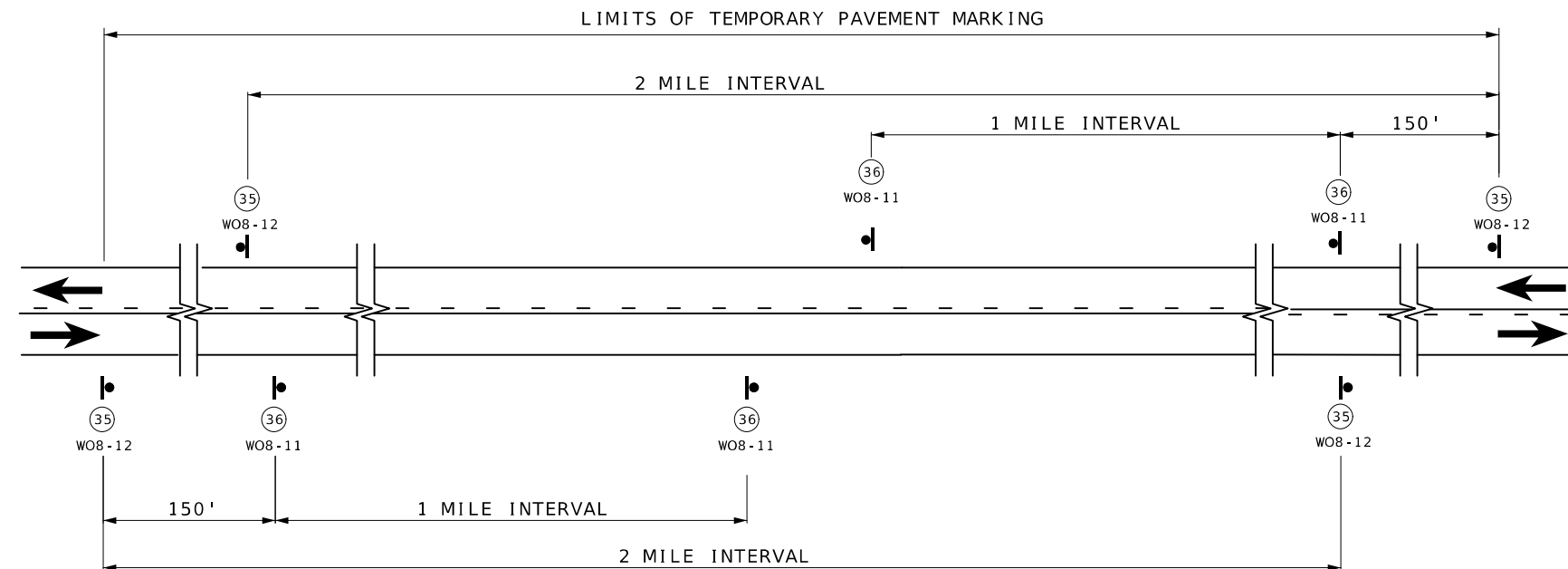
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

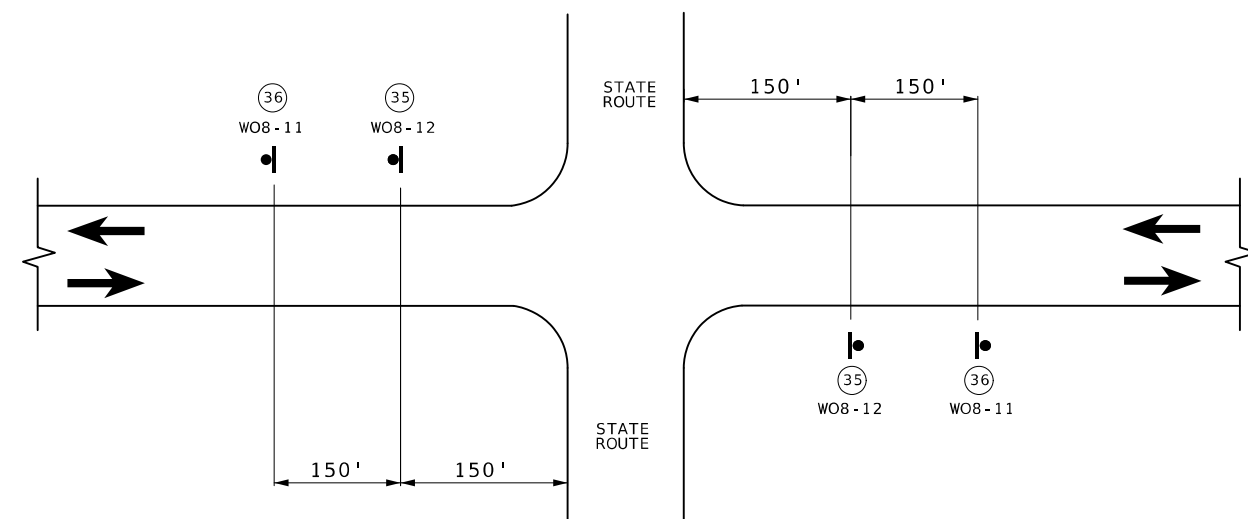
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

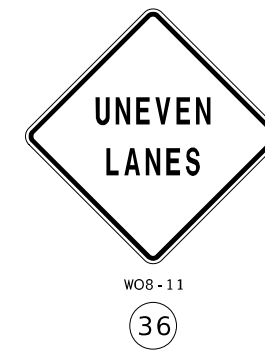
MoDOT



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE



NOTES:

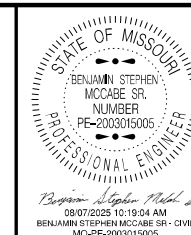
SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS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

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 5



DATE PREPARED
8/4/2025

ROUTE
J

DISTRICT
KC

STATE
MO

SHEET NO.
10

COUNTY
RAY

JOB NO.
JKU0419

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

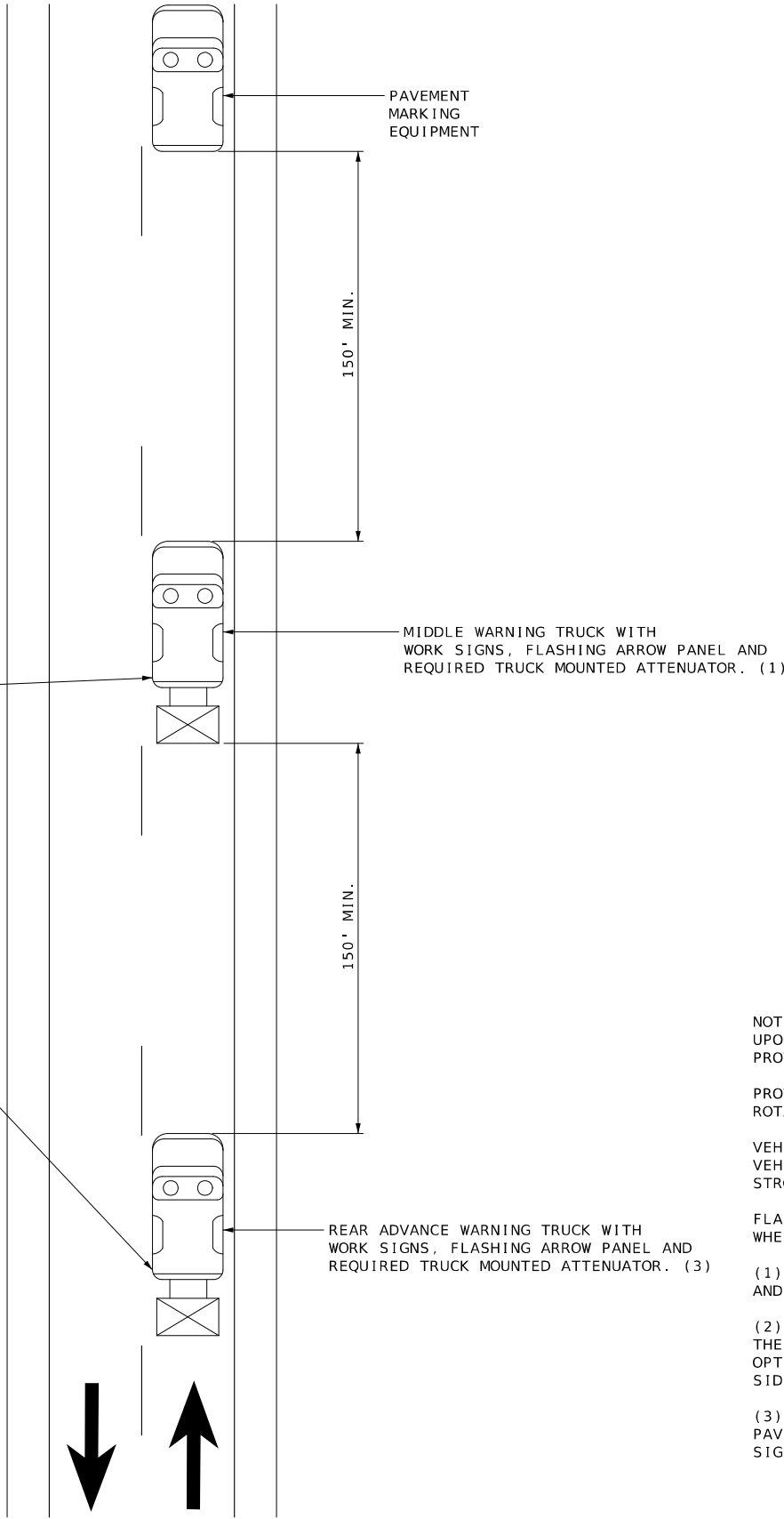
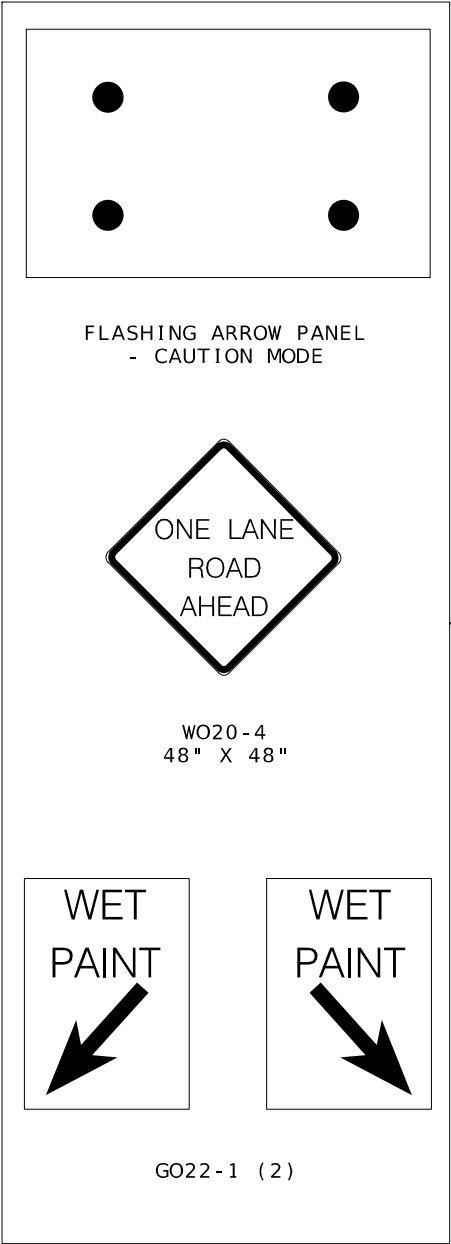
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MODOT



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

PROTECTIVE TRUCK 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.

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 IS 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 ADVANCE 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.

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

08/07/2025 10:20:07 AM

BENJAMIN STEPHEN MCCABE SR. - CIVIL

MO-PE-2003015005

DATE PREPARED

8/4/2025

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