MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ATCHISON/NODAWAY

DESIGN DESIGNATION

A.A.D.T. (CONST)2026 = 601
A.A.D.T. (DESIGN)2036 = 611
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

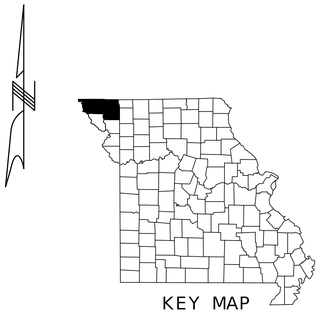
RIGHT OF WAY ACCESS

NO RIGHT OF WAY ACQUISITION

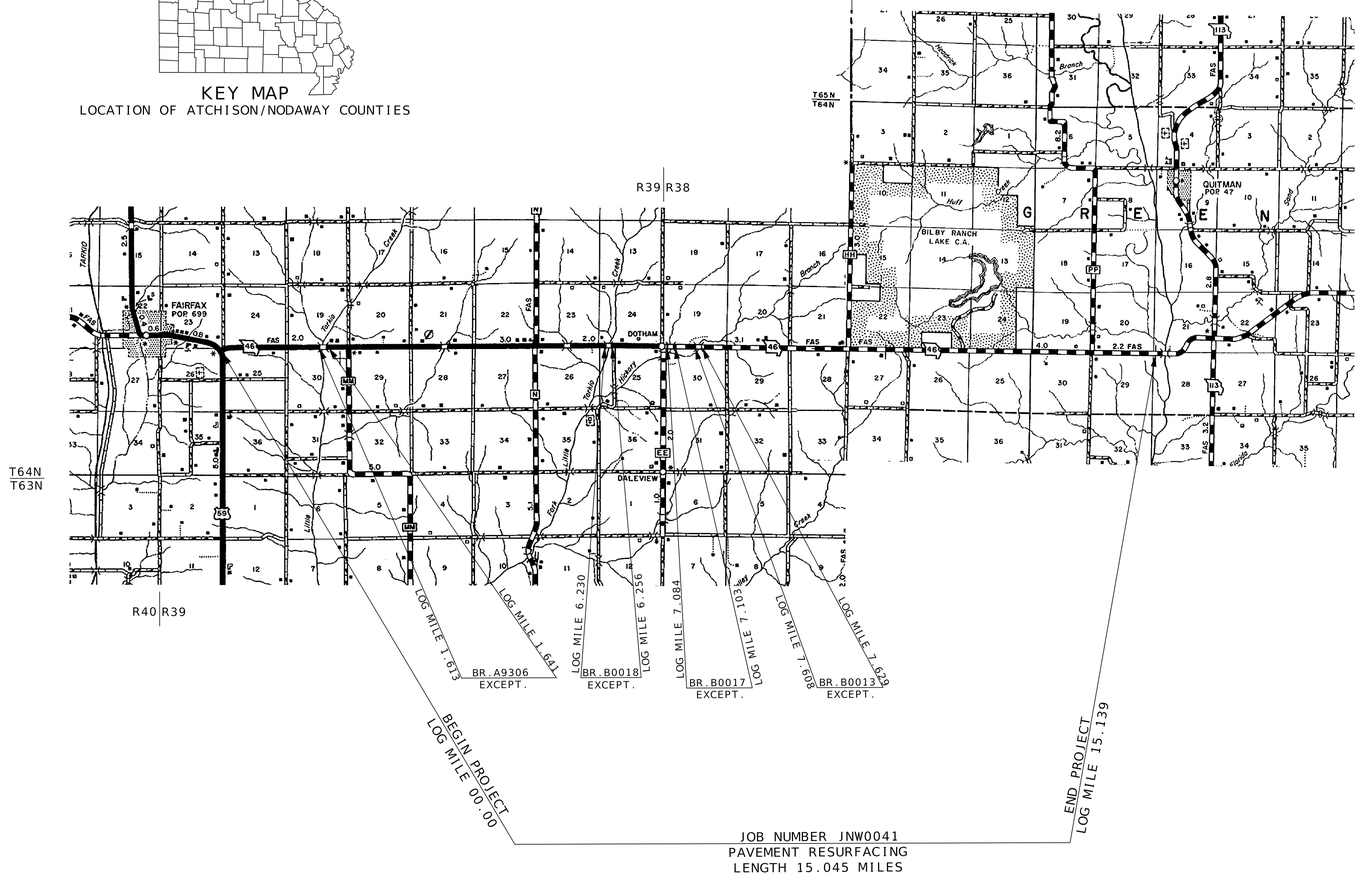
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	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	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK		
WOVEN WIRE	V	
GATE POST	X	
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



KEY MAP
LOCATION OF ATCHISON/NODAWAY COUNTIES



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4-5

LENGTH OF PROJECT

BEGINNING OF MO 46	LOG MILE 0.00
END OF MO 46	LOG MILE 15.139
APPARENT LENGTH	15.139 MILES

EQUATIONS AND EXCEPTIONS:

BRIDGE A9306	-0.028 MILE
BRIDGE B0018	-0.026 MILE
BRIDGE B0017	-0.019 MILE
BRIDGE B0013	-0.021 MILE

TOTAL CORRECTIONS	-0.094	MILES
NET LENGTH OF PROJECT	15.045	MILES
STATE LENGTH	15.045	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0	ACRES

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
10/27/2025 5:56:39 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED	10/24/2025
ROUTE	46
STATE	MO
DISTRICT	NW
SHEET NO.	1
COUNTY	ATCHISON/NODAWAY
JOB NO.	JNW0041
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

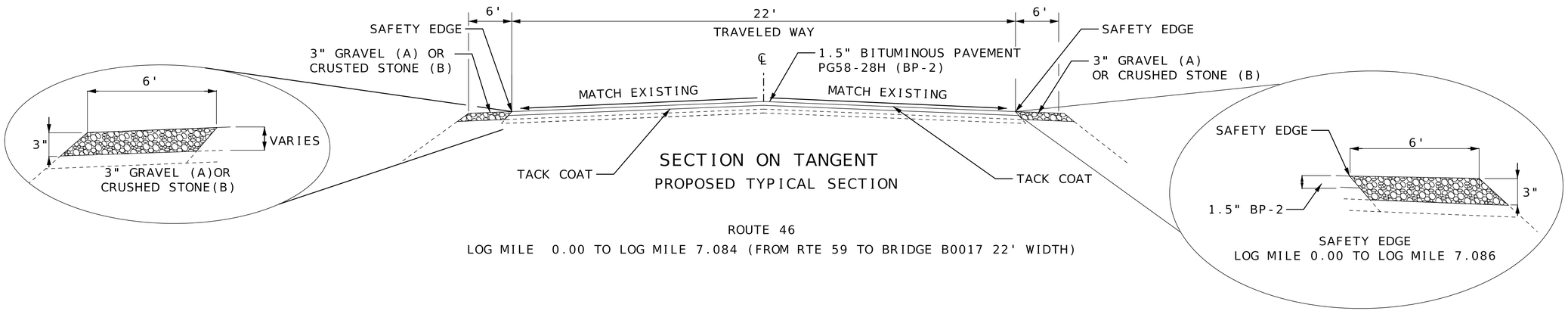
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ESTIMATE FACTORS *

GRAVEL (A) OR CRUSHED STONE (B).....	1.60 TON/YD^3
PERMANENT AGGREGATE EDGE TREATMENT.....	1.60 TON/YD^3
BITUMIOUS PAVEMENT MIXTURE PG58-28H.... (BP-2)	1.98 TON/YD^3
TACK COAT (EXISTING & MILLED SURFACE)..	0.10 GAL/YD^2

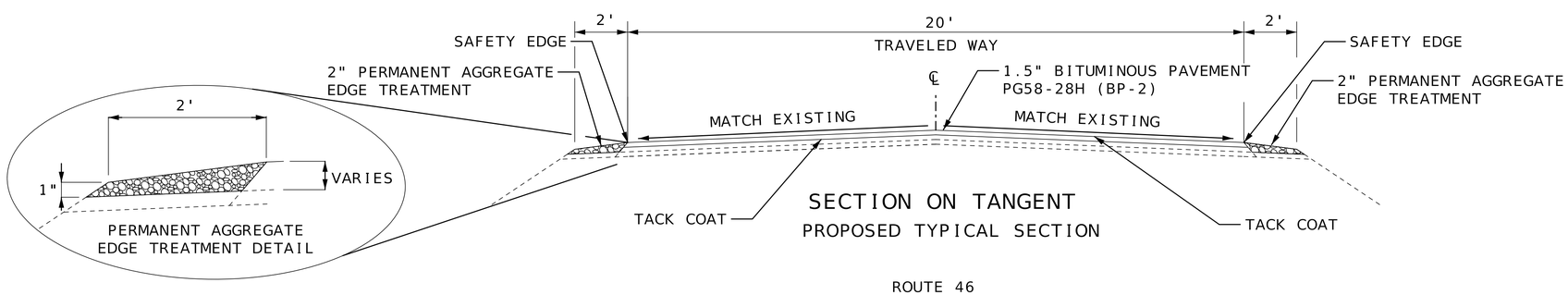
* FOR INFORMATION PURPOSES ONLY



SECTION ON TANGENT
PROPOSED TYPICAL SECTION

ROUTE 46

LOG MILE 0.00 TO LOG MILE 7.084 (FROM RTE 59 TO BRIDGE B0017 22' WIDTH)



SECTION ON TANGENT
PROPOSED TYPICAL SECTION

ROUTE 46

LOG MILE 7.103 TO LOG MILE 15.139 (FROM BRIDGE B0017 TO END OF PROJECT 20'WIDTH)

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 1

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER

Brian M. Rosenthal
10/27/2025 5:57:12 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED	
10/27/2025	
ROUTE 46	STATE MO
DISTRICT NW	SHEET NO. 2
COUNTY ATCHISON/NODAWAY	
JOB NO. JNW0041	
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)

REV.

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	ROUTE	LENGTH (MI)	WIDTH (FT)	LENGTH (FT)	MODIFIED COLDMILLING (SY)	REMARKS
0.000	0.002	46		10	139	154.44	BEG. US 59 & MO 46
		46		20	10	22.22	RTE MM
		46		20	10	44.44	RTE N (BOTH SIDE)
		46		20	10	22.22	RTE EE
		46		20	10	22.22	RTE HH
		46		20	10	22.22	RTE PP
1.585	1.613	46	0.028	22	150	366.67	BRIDGE A9306
1.641	1.669	46	0.028	22	150	366.67	BRIDGE A9306
6.202	6.230	46	0.028	22	150	366.67	BRIDGE B0018
6.256	6.284	46	0.028	22	150	366.67	BRIDGE B0018
7.056	7.084	46	0.028	22	150	366.67	BRIDGE B0017
7.103	7.131	46	0.028	20	150	333.33	BRIDGE B0017
7.580	7.608	46	0.028	20	150	333.33	BRIDGE B0013
7.629	7.657	46	0.028	20	150	333.33	BRIDGE B0013
15.111	15.139	46	0.028	20	150	333.33	END OF JOB M0 46
			TOTAL			3454.43	
			PAY TOTAL			3454	

BITUMINOUS PAVEMENT

LOG MILE	LOG MILE	ROUTE	LENGTH (MI)	WIDTH (FT)	BITUMINOUS MIXTURE PG58-28H (BP-2) (TONS)	TACK COAT (GALLONS)	REMARKS
0.000	0.021	46	VAR.	VAR.	46.67	15.44	TRANSITION AREA THROUGH RADIUS, INTERSECTION US 59 & MO 46
0.021	1.613	46	1.592	22	1695.16	2054.74	FROM MO 46 TO BRIDGE A9306 (RUMBLE PLACEMENT IN AREA)
1.641	6.230	46	4.589	22	4886.37	5922.87	FROM BRIDGE A9306 TO BRIDGE B0018
6.256	7.084	46	0.828	22	881.65	1068.67	FROM BRIDGE B0018 TO BRIDGE B0017
7.103	7.608	46	0.505	20	488.84	592.53	FROM BRIDGE B0017 TO BRIDGE B0013
7.629	15.139	46	7.510	20	7269.68	8811.73	FROM BRIDGE B0013 TO END OF PROJECT
0.000	15.139	46	15.139		2256.75		SURFACE IRREGULARITIES 150 TON/PER MILE
		46			350.50		2% SAFETY EDGE
		46	VAR.	VAR.	108.14	131	STATE ROUTES MM,N,EE,HH,PP
			TOTAL		17983.76	18596.99	
			PAY TOTAL		17983.8	18597	

SHOULDER TREATMENT

LOG MILE	LOG MILE	ROUTE	COUNTY	LENGTH (MI)	WIDTH (FT)	DEPTH (IN)	GRAVEL (A) OR CRUSHED STONE (B) (TONS)	PERMANENT AGGREGATE EDGE TREATMENT (TONS)	Remarks
0.000	1.613	46	NODAWAY	1.613	12	3	1514.07		BEG. JOB TO BRIDGE A9306
1.641	6.230	46	NODAWAY	4.589	12	3	4307.54		FROM BRIDGE A9306 TO BRIDGE B0018
6.256	7.084	46	NODAWAY	0.828	12	3	777.22		FROM BRIDGE B0018 TO BRIDGE B0017
7.103	7.608	46	NODAWAY	0.505	4	2		105.34	FROM BRIDGE B0017 TO BRIDGE B0013
7.629	15.139	46	NODAWAY	7.510	4	2		1566.53	FROM BRIDGE B0013 TO END OF JOB
				TOTAL			6598.83	1671.87	
				PAY TOTAL			6599	1671.9	

ASPHALT RESEARCH
1 LUMP SUM $6,500.00

SUMMARY OF QUANTITIES
SHEET 1 OF 3

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2025 10:44:47 AM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED 11/20/2025

ROUTE	STATE
46	MO
DISTRICT NW	SHEET NO. 3

COUNTY ATCHISON/NODAWAY
JOB NO. JNW0041
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)

CLASS 1 PAVEMENT MARKING PAINT (18-MIL TYPE P BEADS)

LOG MILE	LOG MILE	ROUTE	LENGTH (LF)	4" SOLID WHITE CLASS 1 18-MIL TYPE P BEADS (LF)	4" INT. YELLOW CLASS 1 18-MIL TYPE P BEADS (LF)	4" SOLID YELLOW CLASS 1 18-MIL TYPE P BEADS (LF)	REMARKS
0.000	0.257	46	1356.96	2713.92	2713.92	2713.92	EBL & WBL
0.257	0.438	46	955.68	1911.36	238.92	955.68	EBL & WBL
0.438	0.917	46	2529.12	5058.24	632.28		EBL & WBL
0.917	1.914	46	5264.16	10528.32		10528.32	EBL & WBL
1.914	2.028	46	601.92	1203.84	150.48	601.92	EBL & WBL
2.028	2.099	46	374.88	749.76		749.76	EBL & WBL
2.099	2.239	46	739.2	1478.4		1478.4	EBL & WBL
2.239	2.678	46	2317.92	4635.84	579.48		EBL & WBL
2.678	2.858	46	950.4	1900.8	237.6	950.4	EBL & WBL
2.858	2.937	46	417.12	834.24		834.24	EBL & WBL
2.937	3.458	46	2750.88	5501.76	687.72	2750.88	EBL & WBL
3.458	3.598	46	739.2	1478.4	184.8		EBL & WBL
3.598	3.777	46	945.12	1890.24	236.28	945.12	EBL & WBL
3.777	3.817	46	211.2	422.4		422.4	EBL & WBL
3.817	3.977	46	844.8	1689.6	211.2	844.8	EBL & WBL
3.977	4.198	46	1166.88	2333.76	291.72		EBL & WBL
4.198	4.636	46	2312.64	4625.28	578.16	2312.64	EBL & WBL
4.636	4.697	46	322.08	644.16	80.52		EBL & WBL
4.697	4.816	46	628.32	1256.64	157.08	628.32	EBL & WBL
4.816	4.957	46	744.48	1488.96	186.12		EBL & WBL
4.957	5.317	46	1900.8	3801.6	475.2	1900.8	EBL & WBL
5.317	5.637	46	1689.6	3379.2	422.4		EBL & WBL
5.637	5.797	46	844.8	1689.6	211.2	844.8	EBL & WBL
5.797	5.858	46	322.08	644.16		644.16	EBL & WBL
5.858	6.117	46	1367.52	2735.04	341.88	1367.52	EBL & WBL
6.117	6.317	46	1056	2112	264		EBL & WBL
6.317	6.397	46	422.4	844.8	105.6	422.4	EBL & WBL
6.397	6.557	46	844.8	1689.6		1689.6	EBL & WBL
6.557	6.736	46	945.12	1890.24	236.28	945.12	EBL & WBL
6.736	7.319	46	3078.24	6156.48	769.56		EBL & WBL
7.319	7.698	46	2001.12	4002.24	500.28	2001.12	EBL & WBL
7.698	7.839	46	744.48	1488.96	186.12		EBL & WBL
7.839	8.039	46	1056	2112	264	1056	EBL & WBL
8.039	8.119	46	422.4	844.8		844.8	EBL & WBL
8.119	8.259	46	739.2	1478.4		1478.4	EBL & WBL
8.259	8.339	46	422.4	844.8	105.6	422.4	EBL & WBL
8.339	9.416	46	5686.56	11373.12		11373.12	EBL & WBL
9.416	9.537	46	638.88	1277.76	159.72	638.88	EBL & WBL
9.537	9.656	46	628.32	1256.64		1256.64	EBL & WBL
9.656	10.037	46	2011.68	4023.36	502.92	2011.68	EBL & WBL
10.037	10.093	46	295.68	591.36		591.36	EBL & WBL
10.093	10.199	46	559.68	1119.36	139.92	559.68	EBL & WBL
10.199	10.658	46	2423.52	4847.04		4847.04	EBL & WBL
10.658	11.338	46	3590.4	7180.8	897.6	3590.4	EBL & WBL
11.338	11.718	46	2006.4	4012.8		4012.8	EBL & WBL
11.718	11.898	46	950.4	1900.8	237.6	950.4	EBL & WBL
11.898	11.959	46	322.08	644.16	80.52		EBL & WBL
11.959	12.118	46	839.52	1679.04	209.88	839.52	EBL & WBL
12.118	12.259	46	744.48	1488.96		1488.96	EBL & WBL
12.259	12.599	46	1795.2	3590.4	448.8	1795.2	EBL & WBL
12.599	13.958	46	7175.52	14351.04		14351.04	EBL & WBL
13.958	14.119	46	850.08	1700.16	212.52	850.08	EBL & WBL
14.119	15.139	46	5385.6	10771.2	1346.4		EBL & WBL
			TOTALS	159867.84	15,284.28	89,490.72	
						15,284.28	
			PAY TOTAL	159868.00		104,775.00	

BITUMINOUS RUMBLE STRIP

LOG MILE	ROUTE	TRANSVERSE RUMBLE STRIP LF	REMARKS
0.056	46	237.50	US 59 & MO 46
0.127	46	237.50	US 59 & MO 46
	TOTAL	475.00	
	PAY TOTAL	475	

SIGN POST ANCHOR

LOG MILE	ROUTE	DRIVEN POST ANCHOR FOR 2 IN. PSST-7 GA. EACH	REMARKS
.068	46	1	FOR RELOCATION OF STOP AHEAD SIGN
	TOTAL	1	
	PAY TOTAL	1	

SUMMARY OF QUANTITIES

SHEET 2 OF 3

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER

Brian M. Rosenthal
10/28/2025 11:23:52 AM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED 10/28/2025

ROUTE	STATE
46	MO
DISTRICT	SHEET NO.
NW	3

COUNTY ATCHISON/NODAWAY

JOB NO. JNW0041

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)

CONSTRUCTION SIGNING

SIGN NO.	SIGN	SIZE (in.)	AREA (ft.²)	QTY.	TOTAL AREA (ft.²)	DESCRIPTION
1	G020-1	60 x 24	10.00	2	20	ROAD WORK NEXT XX MILES (1) 2-XX MILES
2	W020-1	48 x 48	16.00	12	192	ROAD WORK AHEAD
7	W020-4	48 x 48	16.00	14	224	ONE LANE ROAD AHEAD
8	W020-7a	48 x 48	16.00	12	192	FLAGGER (SYMBOL)
23	W08-17R	48 x 48	16.00	8	128	SHOULDER DROP-OFF (SYMBOL RIGHT)
23	W08-17P	30 x 24	5.00	8	40	SHOULDER DROP-OFF (PLAQUE)
26	G020-2	48 x 24	8.00	2	16	END ROAD WORK
35	W08-12	48 x 48	16.00	17	272	NO CENTER LINE
36	W08-11	48 x 48	16.00	15	240	UNEVEN LANES
53	G020-4	36 x 18	4.5	1	4.5	PILOT CAR FOLLOW ME
58	G020-4a	42 x 30	8.75	8	70	PILOT CAR IN USE WAIT & FOLLOW
60	G020-4a	18 x 12	1.50	8	12	PILOT CAR IN USE WAIT & FOLLOW
59	CONST-8	48 x 36	12.00	2	24	WORK ZONE NO PHONE ZONE
62	G022-1	21 x 15	2.19	2	4.38	WET PAINT (ARROW PIVOTS)
					1438.88	

ITEM NUMBER	TOTAL QTY	DESCRIPTION
616-10.25	50	CHANNELIZERS (TRIM-LINE)

PAY TOTAL
TRAFFIC CONTROL LUMP SUM = 1

FOR INFORMATION ONLY

NOTE:

REFER TO STANDARD PLAN 616.20 FOR TEMPORARY TRAFFIC CONTROL PLAN SHEETS.

REFER TO STANDARD PLAN 619.10 AND 620.10 FOR SHOULDER DROP-OFF SIGNS.

NOTE:

ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01 TEMPORARY TRAFFIC CONTROL UNLESS OTHERWISE NOTED.
THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 3 OF 3

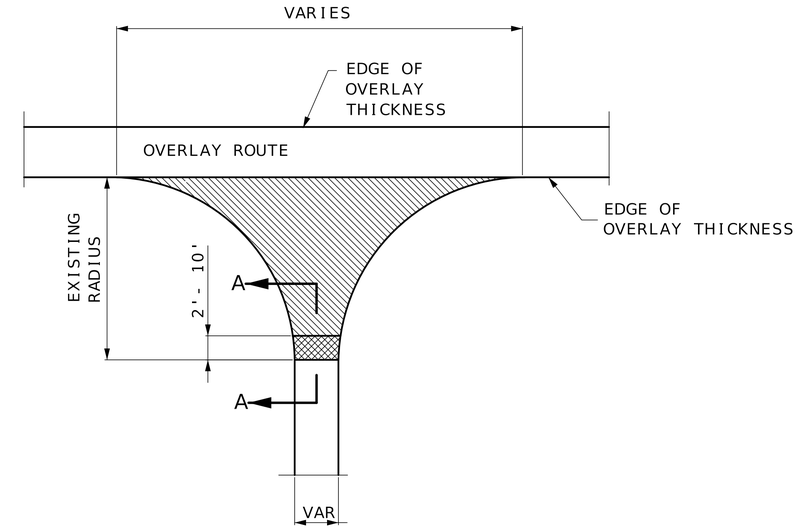
STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER

Brian M. Rosenthal
10/28/2025 11:24:56 AM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

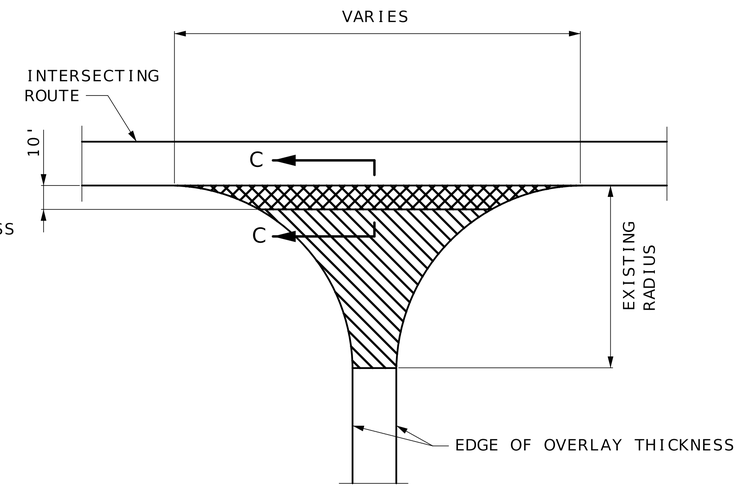
DATE PREPARED	
10/28/2025	
ROUTE 46	STATE MO
DISTRICT NW	SHEET NO. 3
COUNTY ATCHISON/NODAWAY	
JOB NO. JNW0041	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

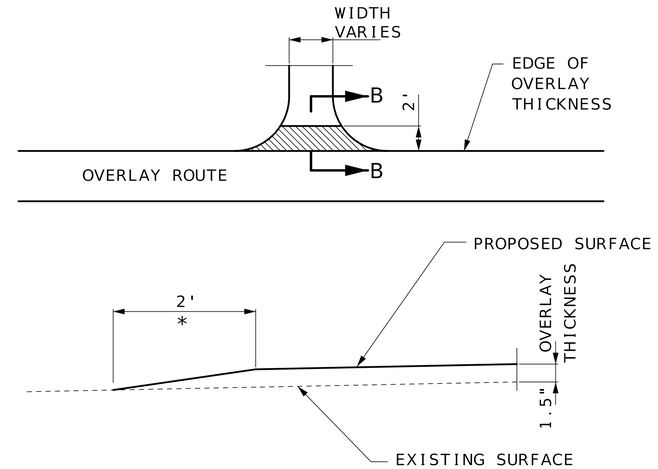
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TYPICAL STATE ROUTE JUNCTION

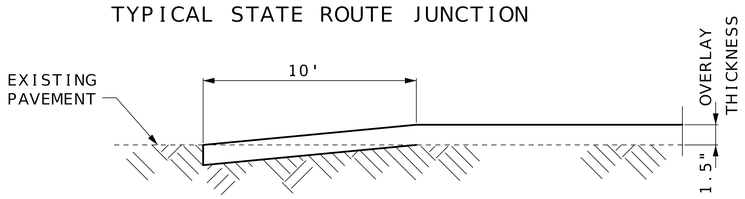


BEGINNING OF PROJECT
AT INTERSECTING ROUTE

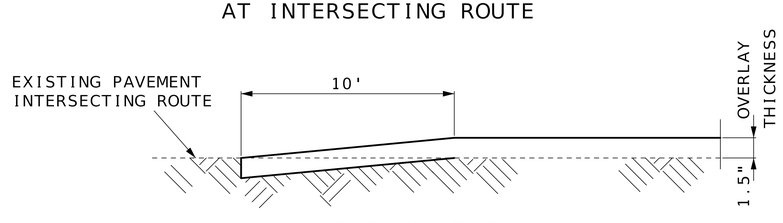


SECTION B-B

TYPICAL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE

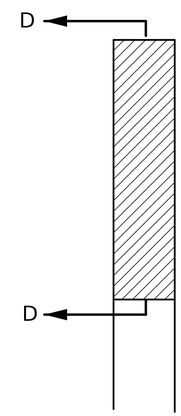


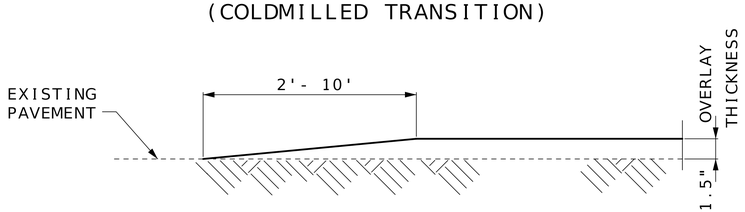
SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(COLDMILLED TRANSITION)



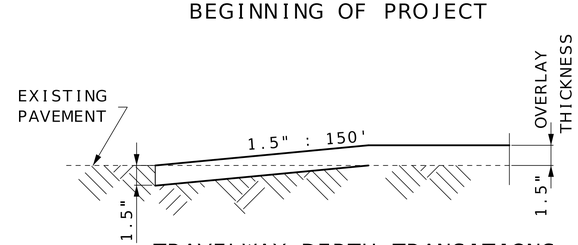
SECTION C-C

DEPTH TRANSISTIONS
BEGINNING OF PROJECT

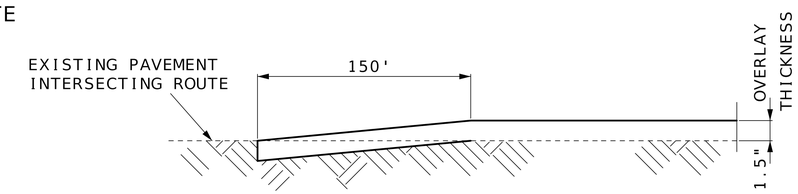




ALTERNATE SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(TAPERED TRANSITION)



TRAVELWAY DEPTH TRANSITIONS
BRIDGES, END OF PROJECT
NOT AT INTERSECTING ROUTE
AND AT EXCEPTIONS



SECTION D-D

DEPTH TRANSISTIONS
END OF PROJECT

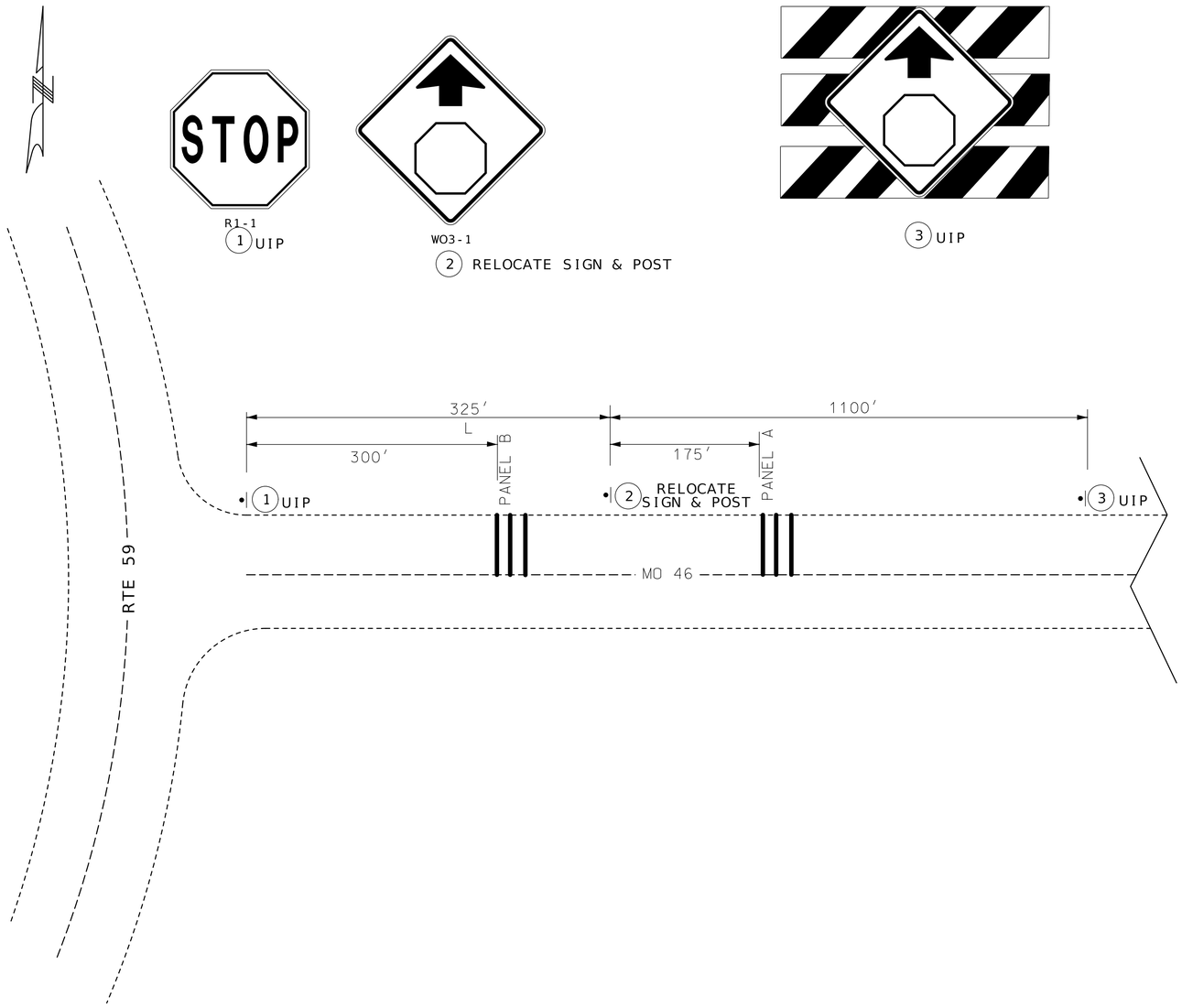
SPECIAL SHEET
1 OF 2

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
10/27/2025 5:58:43 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

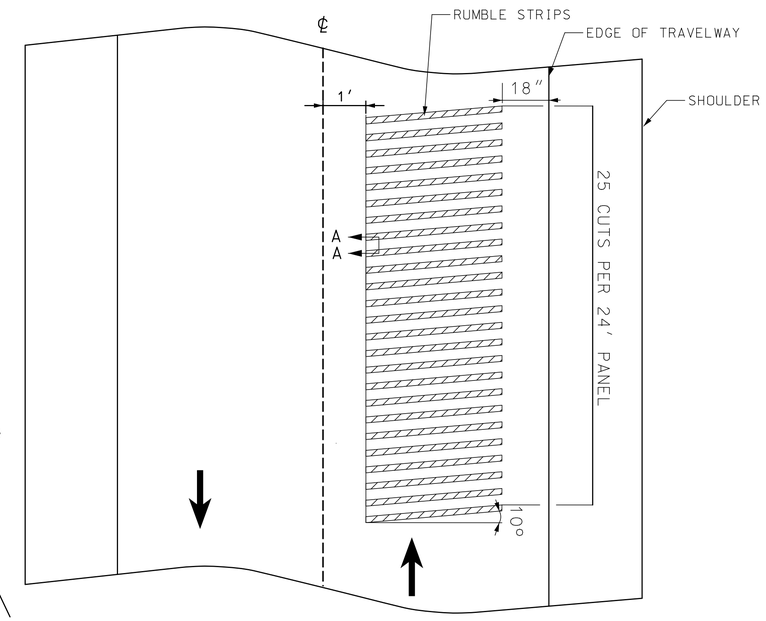
DATE PREPARED	9/10/2025
ROUTE	46
STATE	MO
DISTRICT	NW
SHEET NO.	4
COUNTY	ATCHISON/NODAWAY
JOB NO.	JNW0041
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

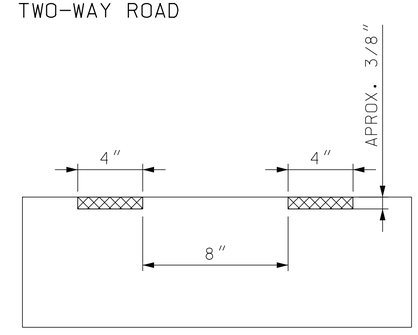
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



GENERAL NOTES:
ALL RUMBLE STRIPS SHALL BE MILLED



TWO-WAY ROAD



SECTION A-A

TRANSVERSE RUMBLE STRIP DETAIL

NOT TO SCALE

RUMBLE STRIPS
SPECIAL SHEET 2 OF 2

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
10/27/2025 5:59:07 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED	10/27/2025
ROUTE	46
STATE	MO
DISTRICT	NW
SHEET NO.	5
COUNTY	ATCHISON/NODAWAY
JOB NO.	JNW0041
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)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY
NODAWAY COUNTY

DESIGN DESIGNATION

ROUTE E

A.A.D.T. - 2026 = 372
A.A.D.T. - 2046 = 411
D.H.V. = 50.7%/49.3%
T = 22.27%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

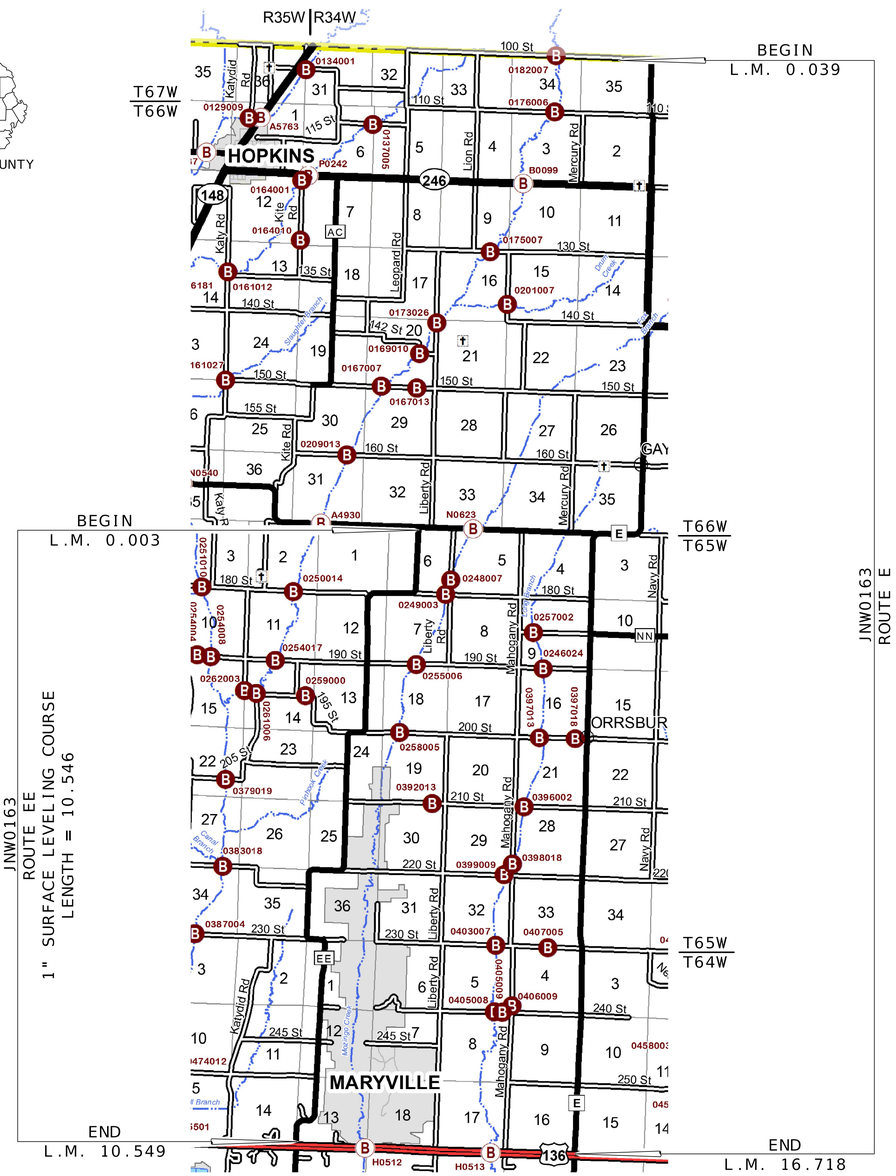
ROUTE EE

A.A.D.T. - 2026 = 390
A.A.D.T. - 2046 = 431
D.H.V. = 49.7%/50.3%
T = 9.32%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR

NO RIGHT OF WAY ACQUISITION

KEY MAP
LOCATION OF NODAWAY COUNTY



NOT TO SCALE

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	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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) (5 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4-8

LENGTH OF PROJECT

ROUTE EE

BEGIN LOG MILE 0.003
END LOG MILE 10.549

APPARENT LENGTH 10.546 MILES

EQUATIONS AND EXCEPTIONS: NONE

ROUTE E

BEGIN LOG MILE 0.039
END LOG MILE 16.718

APPARENT LENGTH 16.679 MILES

EQUATIONS AND EXCEPTIONS: NONE

TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	27.225	MILES
STATE LENGTH	27.225	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0	ACRES

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

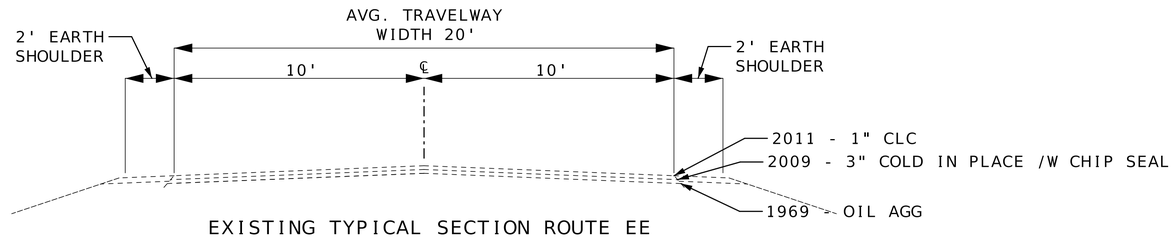
DATE PREPARED 10/2/2025

ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	1

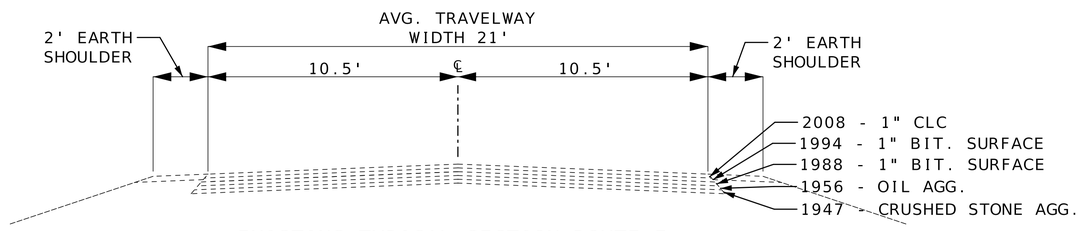
COUNTY NODAWAY
JOB NO. JNW0163
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



EXISTING TYPICAL SECTION ROUTE EE
LOG MILE 0.003 TO LOG MILE 10.549



EXISTING TYPICAL SECTION ROUTE E
LOG MILE 0.039 TO LOG MILE 16.718

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
RICHARD W. ORR
NUMBER
PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

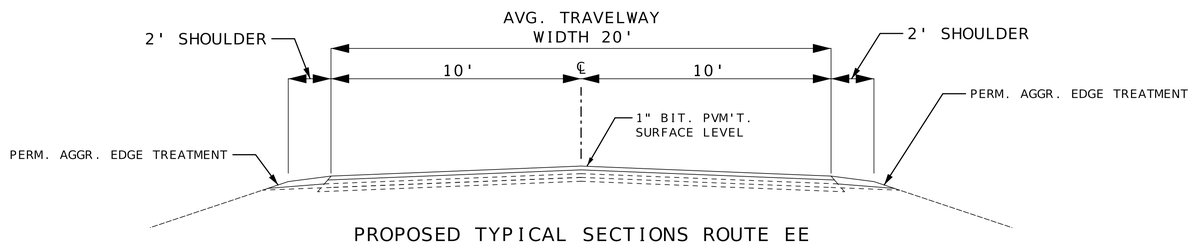
DATE PREPARED	10/27/2025
ROUTE	E/EE
STATE	MO
DISTRICT	NW
SHEET NO.	2
COUNTY	NODAWAY
JOB NO.	JNW0163
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

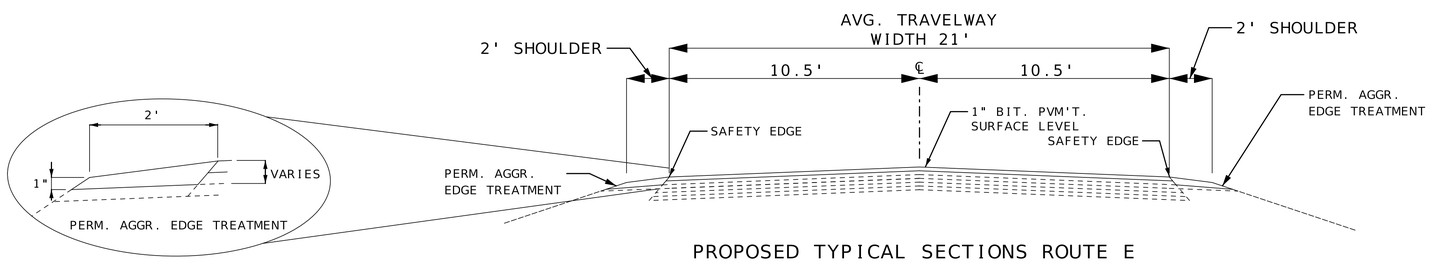
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ESTIMATE FACTORS *		
ITEM	DESCRIPTION	FACTOR
402-05.21	BITUMINOUS PAVEMENT MIXTURE PG58-28H SURFACE LEVELING	1.96 TONS / CU. YD.
407-10.05	TACK COAT - ON EXISTING ASHPHALT SURFACES	0.08 GAL. / SQ. YD.
407-10.05	TACK COAT - ON MILLED ASHPHALT SURFACES	0.10 GAL. / SQ. YD.
304-99.10	PERMANENT AGGREGATE EDGE TREATMENT	1.40 TONS / CU. YD.

* FOR INFORMATIONAL PURPOSES ONLY



PROPOSED TYPICAL SECTIONS ROUTE EE
LOG MILE 0.003 TO LOG MILE 10.549



SHOULDER DETAIL

PROPOSED TYPICAL SECTIONS ROUTE E
LOG MILE 0.039 TO LOG MILE 16.718

NOT TO SCALE

TYPICAL SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
10/27/2025

ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	2

COUNTY
NODAWAY

JOB NO.
JNW0163

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)

RESURFACING

LOG MILE	LOG MILE	LENGTH LF	AVERAGE WIDTH FT	BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING) TON	TACK COAT GAL	PERMANENT AGGREGATE EDGE TREATMENT TON	REMARKS
ROUTE E							
0.039	0.041	10.00	21.38	1.29	2.4	0.35	BEGINNING DEPTH TRANSITION
0.041	16.716	88044.00	21.38	11387.24	16732.3	3043.50	
16.716	16.718	10.00	VARIES	6.32	11.6	0.35	ENDING DEPTH TRANSITION
		VARIES	VARIES	20.96	31.2	2.97	ROUTE 246 INTERSECTION NORTH
		VARIES	VARIES	25.51	37.9	4.08	ROUTE 246 INTERSECTION SOUTH
		VARIES	VARIES	29.73	44.1	5.19	ROUTE NN INTERSECTION NORTH
		VARIES	VARIES	19.94	29.7	3.28	ROUTE NN INTERSECTION SOUTH
				5003.64			ADDITIONAL FOR SURFACE IRREGULARITIES (150 TONS/LANE MILE)
				229.82			ADDITIONAL FOR SAFETY EDGE (2%)
				83.98	154.2		ADDITIONAL FOR JUNCTIONS AND ENTRANCES (142 INDIVIDUAL ENTRANCES)
			SUBTOTALS	16808.43	17043.4	3059.72	
ROUTE EE							
0.003	0.005	10.00	VARIES	6.75	12.4	0.35	BEGINNING DEPTH TRANSITION
0.005	7.448	39299.04	20.64	4906.85	7210.1	1358.49	
7.448	7.457	50.00	20.64	6.24	11.5	1.73	DEPTH TRANSITION
7.457	7.470	68.64	20.64	8.57	15.7	2.37	MILL AND OVERLAY AT SKYLINE DR.
7.470	7.479	50.00	20.64	6.24	11.5	1.73	DEPTH TRANSITION
7.479	10.547	16199.04	20.64	2022.60	2972.0	559.97	
10.547	10.549	10.00	VARIES	4.60	8.4	0.35	ENDING DEPTH TRANSITION
				3164.02			ADDITIONAL FOR SURFACE IRREGULARITIES (150 TONS/LANE MILE)
				68.66	126.1		ADDITIONAL FOR JUNCTIONS AND ENTRANCES (119 INDIVIDUAL ENTRANCES)
			SUBTOTALS	10194.53	10367.7	1924.99	
			TOTALS	27002.96	27411.1	4984.71	
			PAY TOTALS	27003.0	27411	4984.7	

COLDMILLING

LOG MILE	LOG MILE	LENGTH LF	AVERAGE WIDTH FT	MODIFIED COLDMILLING (DEPTH TRANSITIONS) SY	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SY	REMARKS
ROUTE E						
0.039	0.041	10.00	21.38	23.8		BEGINNING DEPTH TRANSITION
16.716	16.718	10.00	VARIES	116.0		ENDING DEPTH TRANSITION
		VARIES	VARIES	22.2		ROUTE 246 INTERSECTION NORTH
		VARIES	VARIES	22.2		ROUTE 246 INTERSECTION SOUTH
		VARIES	VARIES	22.2		ROUTE NN INTERSECTION NORTH
		VARIES	VARIES	22.2		ROUTE NN INTERSECTION SOUTH
			SUBTOTALS	228.6		
ROUTE EE						
0.003	0.005	10.00	VARIES	124.0		BEGINNING DEPTH TRANSITION
7.448	7.457	50.00	20.64	114.7		DEPTH TRANSITION
7.457	7.470	68.64	20.64		157.4	MILL AND OVERLAY AT SKYLINE DR.
7.470	7.479	50.00	20.64	114.7		DEPTH TRANSITION
10.547	10.549	10.00	VARIES	84.4		ENDING DEPTH TRANSITION
			SUBTOTALS	437.8	157.4	
			TOTALS	666.4	157.4	
			PAY TOTALS	666	157	

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/2/2025

ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	3

COUNTY NODAWAY

JOB NO. JNW0163

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)

TYPE III OBJECT MARKERS

LOCATION	FLAT SHEET FLOURESCENT (BLACK ON YELLOW) (12 IN X 36 IN) NUMBER OF EACH OM3-L	OM3-R	ITEM NO. 9035069A S.F.	NUMBER OF POSTS	AVERAGE POST LENGTH L.F.	U CHANNEL POST 3 LB ITEM NO. 9031250A L.F.	REMARKS
ROUTE E	8	8	48	16	10.5	168	AT ALL EXISTING BOX CULVERTS 8' OR LESS FROM EOP
TOTALS	8	8				168	
PAY TOTALS			48			168	

REMOVAL OF IMPROVEMENTS

TYPE III OBJECT MARKERS

LOCATION	TYPE III MARKERS EACH	REMARKS
ROUTE E	13	AT ALL EXISTING BOX CULVERTS 8' OR LESS FROM EOP
LUMP SUM 1		

COLD MIX PATCH REPAIR

LOG MILE	LOG MILE	LENGTH LF	AVERAGE WIDTH FT	COLD MIX PATCHING - REMOVAL OF DAMAGED PAVEMENT SY	COLD MIX PATCHING - REPLACEMENT OF DAMAGED PAVEMENT TON
ROUTE E					
0.039	0.041	10.00	21.38	0.12	0.05
0.041	16.716	88044.00	21.38	1045.77	398.55
16.716	16.718	10.00	VARIES	0.12	0.05
			SUBTOTALS	1046.01	398.65
ROUTE EE					
0.003	0.005	10.00	VARIES	0.11	0.04
0.005	7.448	39299.04	20.64	450.63	171.74
7.448	7.457	50.00	20.64	0.57	0.22
7.457	7.470	68.64	20.64	0.79	0.30
7.470	7.479	50.00	20.64	0.57	0.22
7.479	10.547	16199.04	20.64	185.75	70.79
10.547	10.549	10.00	VARIES	0.11	0.04
			SUBTOTALS	638.53	243.35
			TOTALS	1684.54	642.00
			PAY TOTALS	1684.5	642.0

SUMMARY OF QUANTITIES
SHEET 2 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/2/2025

ROUTE	STATE
E/EE	MO
DISTRICT NW	SHEET NO. 3

COUNTY NODAWAY

JOB NO. JNW0163

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)

PAVEMENT MARKING QUANTITIES RTE. E

LOG MILE	LOG MILE	LENGTH LF	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) SOLID LF	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) INTERMITTENT LF	REMARKS
ROUTE E					
0.039	1.859	9609.60	19219.20		DOUBLE YELLOW
1.859	1.959	528.00	528.00	87.91	NO PASSING NORTHBOUND
1.959	2.019	316.80	633.60		DOUBLE YELLOW
2.019	2.119	528.00	528.00	87.91	NO PASSING SOUTHBOUND
2.119	2.560	2328.48	4656.96		DOUBLE YELLOW
2.560	2.660	528.00	528.00	87.91	NO PASSING NORTHBOUND
2.660	2.740	422.40	844.80		DOUBLE YELLOW
2.740	2.840	528.00	528.00	87.91	NO PASSING SOUTHBOUND
2.840	3.299	2423.52	4847.04		DOUBLE YELLOW
3.299	3.380	427.68	427.68	71.21	NO PASSING NORTHBOUND
3.380	3.460	422.40	844.80		DOUBLE YELLOW
3.460	3.559	522.72	522.72	87.03	NO PASSING SOUTHBOUND
3.559	3.798	1261.92	2523.84		DOUBLE YELLOW
3.798	3.898	528.00	528.00	87.91	NO PASSING NORTHBOUND
3.898	3.959	322.08	644.16		DOUBLE YELLOW
3.959	4.038	417.12	417.12	69.45	NO PASSING SOUTHBOUND
4.038	4.539	2645.28	5290.56		DOUBLE YELLOW
4.539	4.763	1182.72		196.92	PASSING
4.763	4.872	575.52	575.52	95.82	NO PASSING SOUTHBOUND
4.872	5.143	1430.88	2861.76		DOUBLE YELLOW
5.143	5.212	364.32	364.32	60.66	NO PASSING NORTHBOUND
5.212	5.269	300.96		50.11	PASSING
5.269	5.402	702.24	702.24	116.92	NO PASSING SOUTHBOUND
5.402	5.64	1256.64	2513.28		DOUBLE YELLOW
5.64	5.681	216.48	216.48	36.04	NO PASSING NORTHBOUND
5.681	5.778	512.16		85.27	PASSING
5.778	5.876	517.44	517.44	86.15	NO PASSING SOUTHBOUND
5.876	5.932	295.68	591.36		DOUBLE YELLOW
5.932	6.002	369.60	369.60	61.54	NO PASSING NORTHBOUND
6.002	6.158	823.68		137.14	PASSING
6.158	6.236	411.84	411.84	68.57	NO PASSING SOUTHBOUND
6.236	6.274	200.64	401.28		DOUBLE YELLOW
6.274	6.352	411.84	411.84	68.57	NO PASSING NORTHBOUND
6.352	6.619	1409.76		234.73	PASSING
6.619	6.674	290.40	290.40	48.35	NO PASSING SOUTHBOUND
6.674	6.702	147.84	295.68		DOUBLE YELLOW
6.702	6.774	380.16	380.16	63.30	NO PASSING NORTHBOUND
6.774	6.861	459.36	459.36	76.48	NO PASSING SOUTHBOUND
6.861	7.32	2423.52	4847.04		DOUBLE YELLOW
7.32	7.505	976.80	976.80	162.64	NO PASSING NORTHBOUND
7.505	7.643	728.64		121.32	PASSING
7.643	7.726	438.24	438.24	72.97	NO PASSING SOUTHBOUND
7.726	8.201	2508.00	5016.00		DOUBLE YELLOW
8.201	8.314	596.64	596.64	99.34	NO PASSING NORTHBOUND
8.314	8.334	105.60		17.58	PASSING
8.334	8.479	765.60	765.60	127.47	NO PASSING SOUTHBOUND
8.479	8.519	211.20	422.40		DOUBLE YELLOW
8.519	8.644	660.00	660.00	109.89	NO PASSING NORTHBOUND
8.644	8.757	596.64	596.64	99.34	NO PASSING SOUTHBOUND
8.757	8.859	538.56	538.56	89.67	NO PASSING NORTHBOUND
8.859	9.034	924.00		153.85	PASSING
9.034	9.185	797.28	797.28	132.75	NO PASSING SOUTHBOUND
9.185	9.260	396.00	396.00	65.93	NO PASSING NORTHBOUND
9.260	9.336	401.28		66.81	PASSING
9.336	9.471	712.80	712.80	118.68	NO PASSING SOUTHBOUND
9.471	9.527	295.68	591.36		DOUBLE YELLOW
9.527	9.652	660.00	660.00	109.89	NO PASSING NORTHBOUND
9.652	9.738	454.08		75.60	PASSING
9.738	9.870	696.96	696.96	116.04	NO PASSING SOUTHBOUND
9.870	10.131	1378.08	2756.16		DOUBLE YELLOW
10.131	10.230	522.72	522.72	87.03	NO PASSING NORTHBOUND
10.230	10.370	739.20	1478.40		DOUBLE YELLOW
10.370	10.454	443.52	443.52	73.85	NO PASSING NORTHBOUND
10.454	10.496	221.76		36.92	PASSING
10.496	10.619	649.44	649.44	108.13	NO PASSING SOUTHBOUND
		TABLE 1 SUBTOTALS	79437.60	4199.51	

PAVEMENT MARKING QUANTITIES RTE. E (CONT.)

LOG MILE	LOG MILE	LENGTH LF	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) SOLID LF	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) INTERMITTENT LF	REMARKS
ROUTE E					
10.619	10.751	696.96	1393.92		DOUBLE YELLOW
10.751	10.887	718.08	718.08	119.56	NO PASSING NORTHBOUND
10.887	10.988	533.28		88.79	PASSING
10.988	11.117	681.12	681.12	113.41	NO PASSING SOUTHBOUND
11.117	11.159	221.76	443.52		DOUBLE YELLOW
11.159	11.187	147.84	147.84	24.62	NO PASSING NORTHBOUND
11.187	11.23	227.04		37.80	PASSING
11.230	11.354	654.72	654.72	109.01	NO PASSING SOUTHBOUND
11.354	11.41	295.68	591.36		DOUBLE YELLOW
11.410	11.495	448.80	448.80	74.73	NO PASSING NORTHBOUND
11.495	12.099	3189.12		530.99	PASSING
12.099	12.188	469.92	469.92	78.24	NO PASSING SOUTHBOUND
12.188	12.217	153.12	306.24		DOUBLE YELLOW
12.217	12.289	380.16	380.16	63.30	NO PASSING NORTHBOUND
12.289	12.459	897.60		149.45	PASSING
12.459	12.529	369.60	369.60	61.54	NO PASSING SOUTHBOUND
12.529	12.698	892.32	1784.64		DOUBLE YELLOW
12.698	12.771	385.44	385.44	64.18	NO PASSING NORTHBOUND
12.771	12.817	242.88		40.44	PASSING
12.817	12.92	543.84	543.84	90.55	NO PASSING SOUTHBOUND
12.920	12.961	216.48	432.96		DOUBLE YELLOW
12.961	13.031	369.60	369.60	61.54	NO PASSING NORTHBOUND
13.031	13.116	448.80		74.73	PASSING
13.116	13.23	601.92	601.92	100.22	NO PASSING SOUTHBOUND
13.230	13.357	670.56	670.56	111.65	NO PASSING NORTHBOUND
13.357	13.4	227.04		37.80	PASSING
13.400	13.502	538.56	538.56	89.67	NO PASSING SOUTHBOUND
13.502	13.532	158.40	316.80		DOUBLE YELLOW
13.532	13.633	533.28	533.28	88.79	NO PASSING NORTHBOUND
13.633	13.779	770.88	770.88	128.35	NO PASSING SOUTHBOUND
13.779	14.31	2803.68	5607.36		DOUBLE YELLOW
14.310	14.458	781.44	1562.88	130.11	NO PASSING NORTHBOUND
14.458	14.517	311.52		51.87	PASSING
14.517	14.618	533.28	1066.56	88.79	NO PASSING SOUTHBOUND
14.618	14.732	601.92	1203.84		DOUBLE YELLOW
14.732	14.82	464.64	929.28	77.36	NO PASSING NORTHBOUND
14.820	15.036	1140.48		189.89	PASSING
15.036	15.078	221.76	443.52	36.92	NO PASSING SOUTHBOUND
15.078	16.062	5195.52	10391.04		DOUBLE YELLOW
16.062	16.159	512.16	1024.32	85.27	NO PASSING NORTHBOUND
16.159	16.366	1092.96		181.98	PASSING
16.366	16.42	285.12	570.24	47.47	NO PASSING SOUTHBOUND
16.420	16.602	960.96	1921.92	160.00	NO PASSING NORTHBOUND
16.602	16.681	417.12	834.24	69.45	PASSING
16.681	16.718	195.36	390.72		DOUBLE YELLOW
		TABLE 2 SUBTOTALS	39499.68	3458.47	

SUMMARY OF QUANTITIES
SHEET 3 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/2/2025
ROUTE E/EE | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY NODAWAY
JOB NO. JNW0163
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 MARKING QUANTITIES RTE. EE

LOG MILE	LOG MILE	LENGTH LF	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) SOLID LF	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) INTERMITTENT LF	REMARKS
ROUTE EE					
0.003	0.200	1040.16	2080.32		DOUBLE YELLOW
0.200	0.320	633.60	633.60	105.49	NO PASSING NORTHBOUND
0.320	0.460	739.20		123.08	PASSING
0.460	0.579	628.32	628.32	104.62	NO PASSING SOUTHBOUND
0.579	0.760	955.68	1911.36		DOUBLE YELLOW
0.760	0.880	633.60	633.60	105.49	NO PASSING SOUTHBOUND
0.880	2.121	6552.48	13104.96		DOUBLE YELLOW
2.121	2.221	528.00	528.00	87.91	NO PASSING SOUTHBOUND
2.221	2.441	1161.60	1161.60	193.41	NO PASSING NORTHBOUND
2.441	2.622	955.68	955.68	159.12	NO PASSING SOUTHBOUND
2.622	2.781	839.52	1679.04		DOUBLE YELLOW
2.781	2.861	422.40	422.40	70.33	NO PASSING NORTHBOUND
2.861	3.041	950.40	1900.8		DOUBLE YELLOW
3.041	3.141	528.00	528.00	87.91	NO PASSING NORTHBOUND
3.141	3.281	739.20	739.20	123.08	NO PASSING SOUTHBOUND
3.281	4.021	3907.20	7814.4		DOUBLE YELLOW
4.021	4.181	844.80	844.80	140.66	NO PASSING NORTHBOUND
4.181	4.341	844.80	844.80	140.66	NO PASSING SOUTHBOUND
4.341	4.720	2001.12	4002.24		DOUBLE YELLOW
4.720	4.781	322.08	322.08	53.63	NO PASSING NORTHBOUND
4.781	4.841	316.80	316.80	52.75	NO PASSING SOUTHBOUND
4.841	5.001	844.80	1689.6		DOUBLE YELLOW
5.001	5.121	633.60	633.60	105.49	NO PASSING NORTHBOUND
5.121	5.221	528.00	528.00	87.91	NO PASSING SOUTHBOUND
5.221	5.340	628.32	628.32	104.62	NO PASSING NORTHBOUND
5.340	5.480	739.20	739.20	123.08	NO PASSING SOUTHBOUND
5.480	6.362	4656.96	9313.92		DOUBLE YELLOW
6.362	6.521	839.52	839.52	139.78	NO PASSING NORTHBOUND
6.521	6.620	522.72	522.72	87.03	NO PASSING SOUTHBOUND
6.620	6.800	950.40	950.40	158.24	NO PASSING NORTHBOUND
6.800	6.961	850.08	850.08	141.54	NO PASSING SOUTHBOUND
6.961	7.763	4234.56	8469.12		DOUBLE YELLOW
7.763	7.843	422.40	422.40	70.33	NO PASSING SOUTHBOUND
7.843	7.923	422.40	844.8		DOUBLE YELLOW
7.923	8.062	733.92	733.92	122.20	NO PASSING NORTHBOUND
8.062	8.203	744.48	744.48	123.96	NO PASSING SOUTHBOUND
8.203	8.242	205.92	411.84		DOUBLE YELLOW
8.242	8.342	528.00	528.00	87.91	NO PASSING NORTHBOUND
8.342	8.422	422.40	422.40	70.33	NO PASSING SOUTHBOUND
8.422	8.522	528.00	528.00	87.91	NO PASSING NORTHBOUND
8.522	8.641	628.32	628.32	104.62	NO PASSING SOUTHBOUND
8.641	8.661	105.60	211.2		DOUBLE YELLOW
8.661	8.841	950.40	950.40	158.24	NO PASSING NORTHBOUND
8.841	8.981	739.20	739.20	123.08	NO PASSING SOUTHBOUND
8.981	9.121	739.20	739.20	123.08	NO PASSING NORTHBOUND
9.121	9.220	522.72	522.72	87.03	NO PASSING SOUTHBOUND
9.220	9.300	422.40	422.40	70.33	NO PASSING NORTHBOUND
9.300	9.380	422.40	422.40	70.33	NO PASSING SOUTHBOUND
9.380	9.520	739.20	1478.4		DOUBLE YELLOW
9.520	9.640	633.60	633.60	105.49	NO PASSING NORTHBOUND
9.640	9.760	633.60	633.60	105.49	NO PASSING SOUTHBOUND
9.760	10.281	2750.88	5501.76		DOUBLE YELLOW
10.281	10.400	628.32	628.32	104.62	NO PASSING NORTHBOUND
10.400	10.500	528.00		87.91	PASSING
10.500	10.520	105.60	105.60	17.58	NO PASSING SOUTHBOUND
10.520	10.549	153.12	306.24		DOUBLE YELLOW
		TABLE 3 SUBTOTALS	84775.68	4216.27	
		TABLE 2 SUBTOTALS	39499.68	3458.47	
		TABLE 1 SUBTOTALS	79437.60	4199.51	
		SUBTOTALS	203713	11874	
		PAY TOTALS	215587		

SUMMARY OF QUANTITIES
SHEET 4 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/2/2025

ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	3

COUNTY: NODAWAY
JOB NO.: JNW0163
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)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	13	208.00			11	BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00	8	128.00			35	NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
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	13	208.00			2	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	15	240.00			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	13	208.00			8	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			61	WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	4	40.00			1	ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	4	32.00			26	END ROAD WORK
GO20-4	36X18	4.50	1	4.50			53	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	13	113.75			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	4	48.00			59	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	1240*
616-10.10 RELOCATED SIGNS	TOTAL	

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	194*	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030		TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

6169901	1	LUMP SUM TEMPORARY TRAFFIC CONTROL (*ITEM INCLUDED)

SUMMARY OF QUANTITIES

SHEET 5 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/2/2025

ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	3

COUNTY NODAWAY

JOB NO. JNW0163

CONTRACT ID.

PROJECT NO.

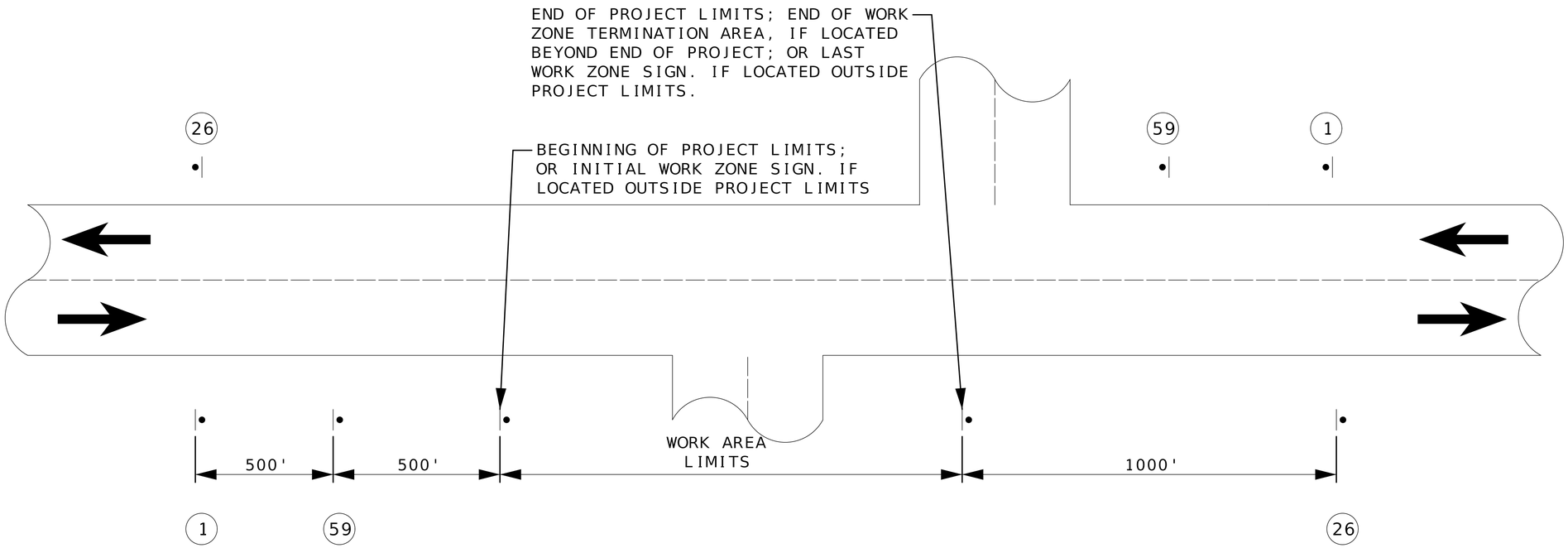
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

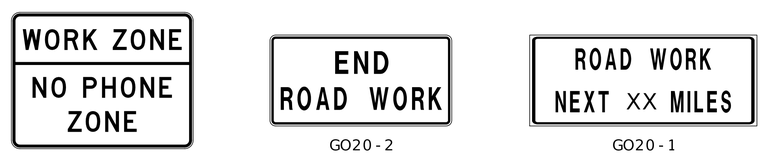


NOTES:

SIGN (1) AND (26) ARE ONLY USED ON PROJECTS LENGTHS 2 MILES OR GREATER.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



CONST-8 (59) | GO20-2 (26) | GO20-1 (1)

BEGINNING AND END OF PROJECT SIGNING ON RTE. E & EE

NOT TO SCALE

TRAFFIC CONTROL
SHEET 1 OF 5

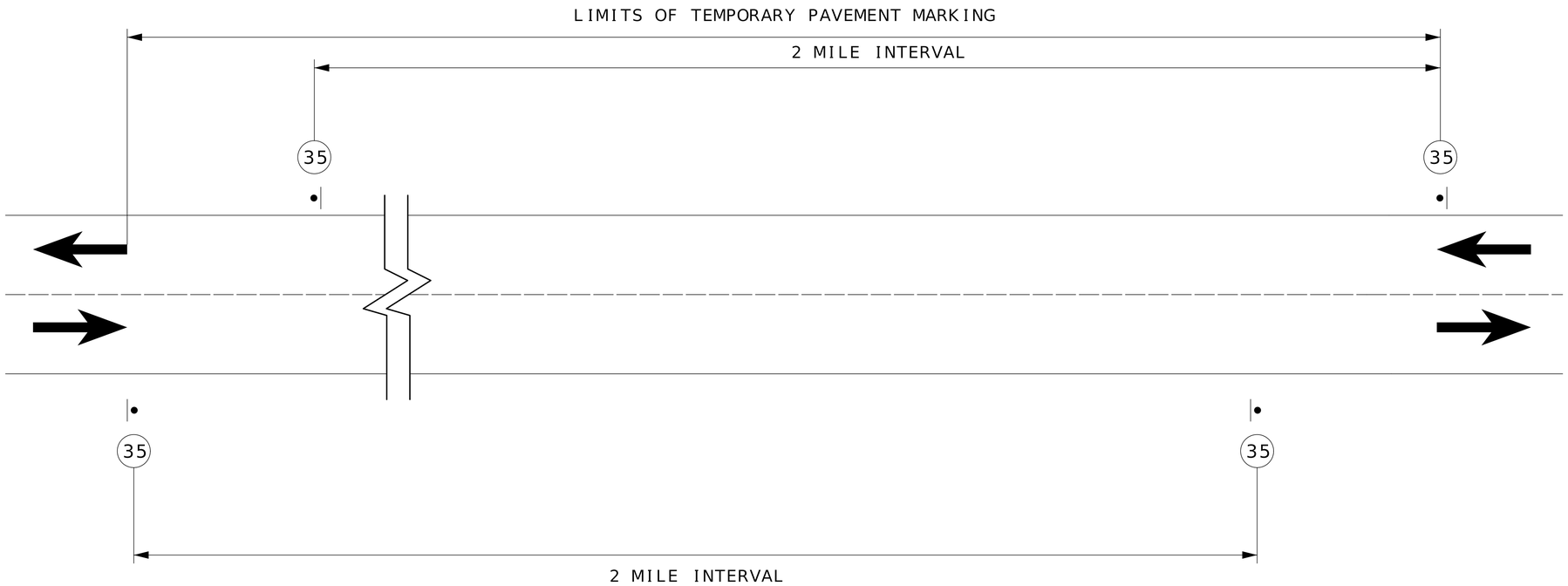
STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

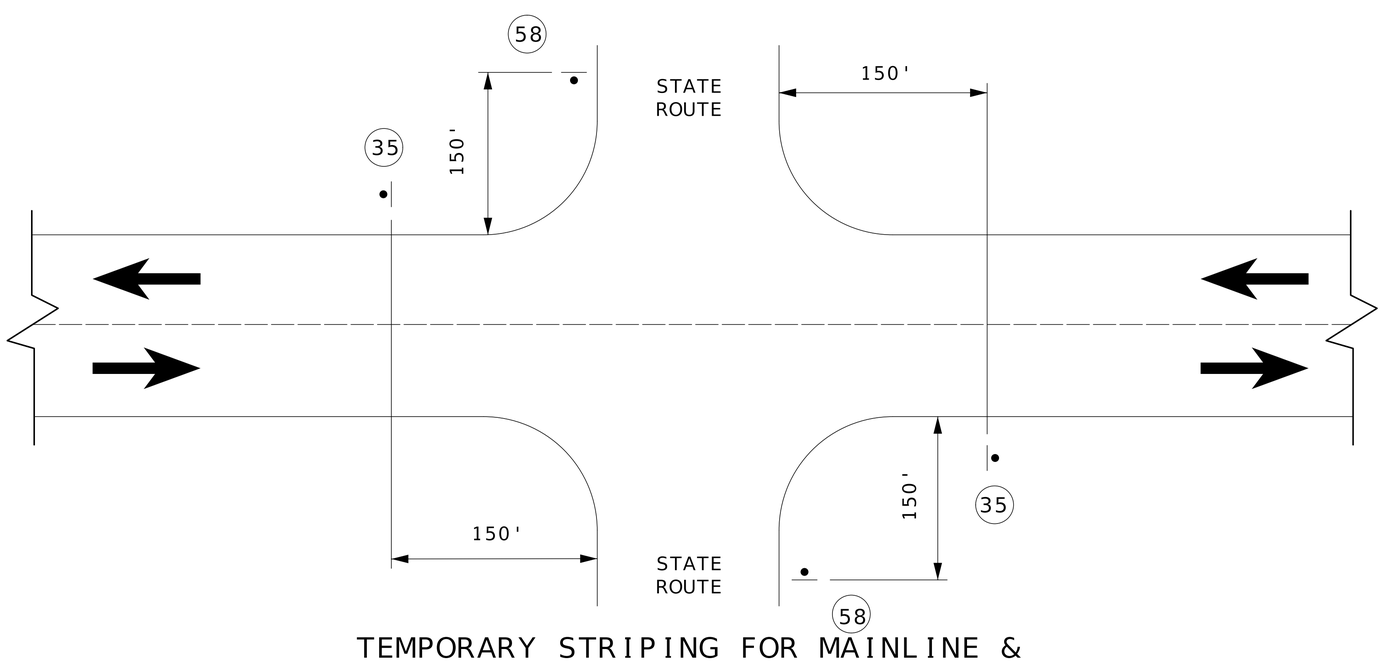
DATE PREPARED	10/2/2025
ROUTE	E/EE
STATE	MO
DISTRICT	NW
SHEET NO.	4
COUNTY	NODAWAY
JOB NO.	JNW0163
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



TEMPORARY STRIPING FOR MAINLINE &
SIGN SPACING AT STATE ROUTE INTERSECTION
ON RTE. E & EE

NOTE: ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

NOT TO SCALE

GO20-4a

58

WO8-12

35

NOTES:

SIGN 35 AND TYPE 2 TRPM 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 APPROXIMATLEY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-LENGTH 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.

TRAFFIC CONTROL
SHEET 2 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER
PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	10/2/2025
ROUTE	E/EE
STATE	MO
DISTRICT	NW
SHEET NO.	5
COUNTY	NODAWAY
JOB NO.	JNW0163
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)

WO20-1

(2)

WO20-4

(7)

WO20-7a

(8)

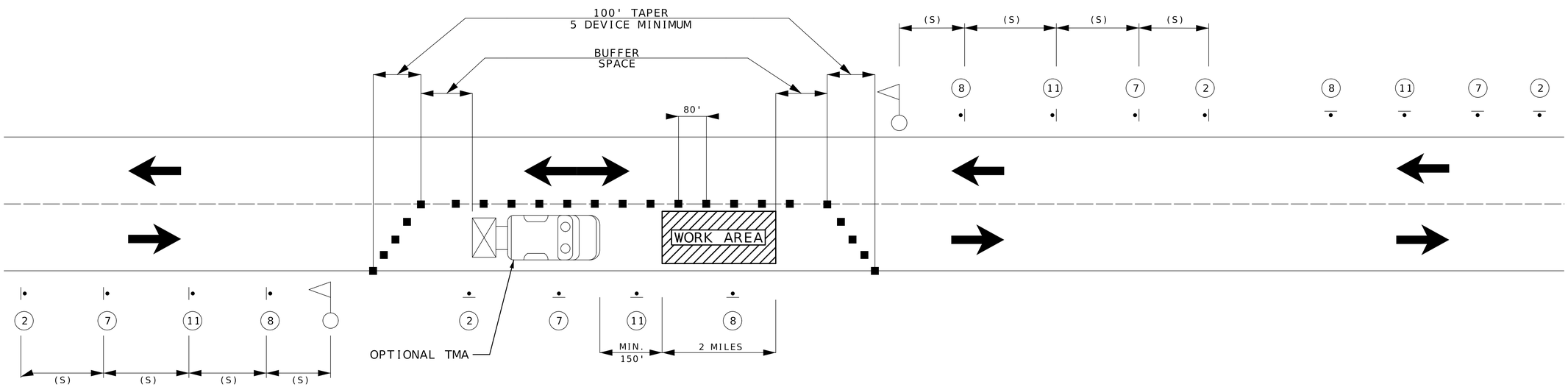
GO20-4

(53)

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTORS RESPONSIBILITY WHEN IN USE DURING OPERATION
USE OF PILOT CAR SHALL BE REQUIRED, UNLESS OTHERWISE STATED BY THE ENGINEER.

WO3-4

(11)



SET 1

ACTIVE

SET 2

INACTIVE

SET 3

ACTIVE

SET 4

INACTIVE

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 2.

WHEN SIGN SET 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 ADVANCE IN THE DIRECTION OF THE OPERATION (I.E. NEW SIGN SETS 2 AND 4).

■ —— CHANNELIZERS

—— FLAGGER

—— OPTIONAL TMA - NO DIRECT PAY

SPEED	SIGN SPACING (FT.)			CHANNELIZER SPACING (FT.)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	BUFFER LENGTH (FT.)	TAPERS	BUFFER/ WORK AREAS
0 - 35	200	-	280	-	40
40 - 45	350	-	400	-	80
50 - 55	500	-	560	-	80
60 - 70	1000	-	840	-	120

NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

ONE LANE, TWO WAY OPERATION

NOT TO SCALE

TRAFFIC CONTROL
SHEET 3 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER
PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
10/2/2025

ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	6

COUNTY
NODAWAY

JOB NO.
JNW0163

CONTRACT ID.

PROJECT NO.

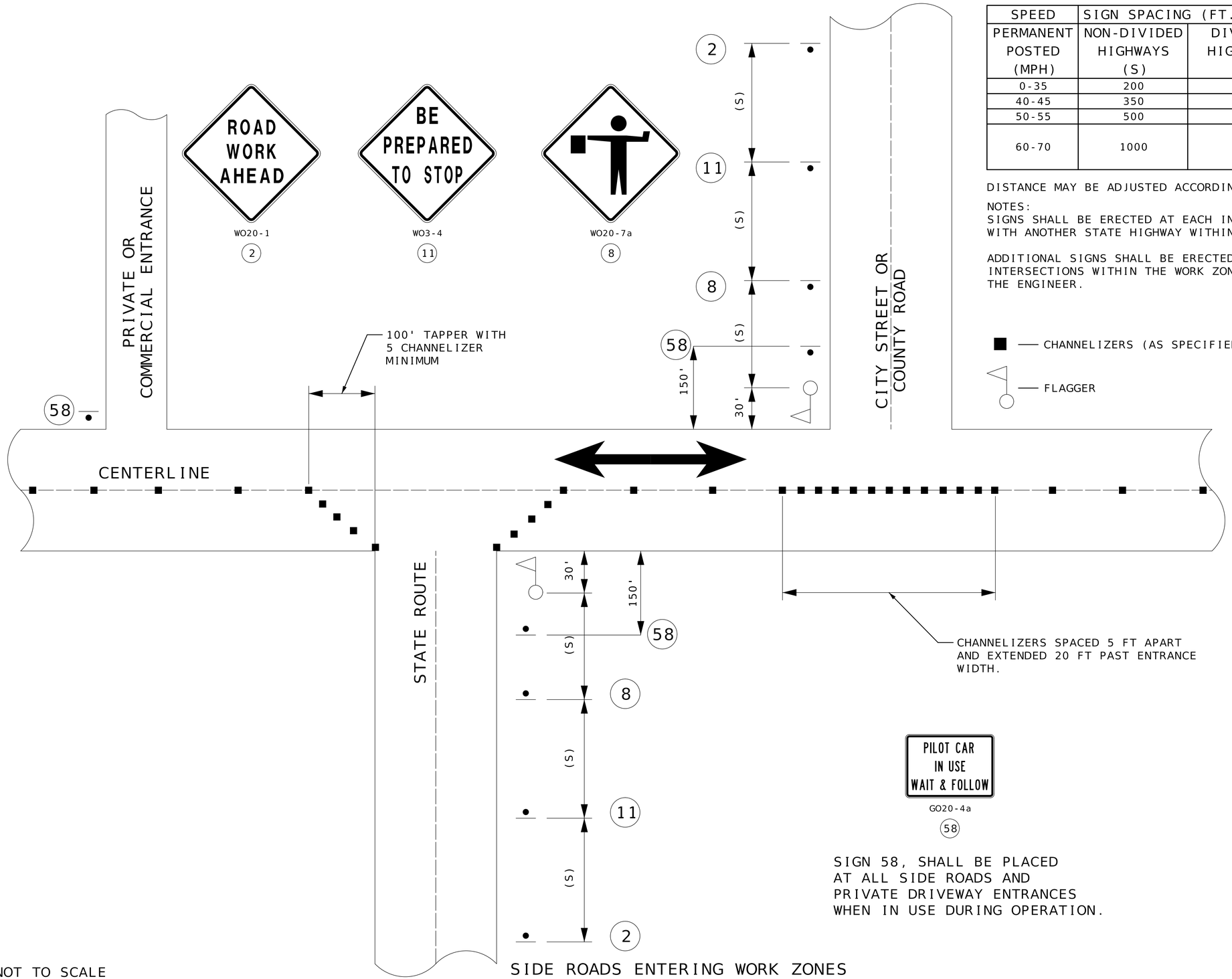
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

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

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

■ — CHANNELIZERS (AS SPECIFIED)

FLAGGER

SIGN 58, SHALL BE PLACED AT ALL SIDE ROADS AND PRIVATE DRIVEWAY ENTRANCES WHEN IN USE DURING OPERATION.

NOT TO SCALE

SIDE ROADS ENTERING WORK ZONES ON RTE. E & EE

TRAFFIC CONTROL
SHEET 4 OF 5

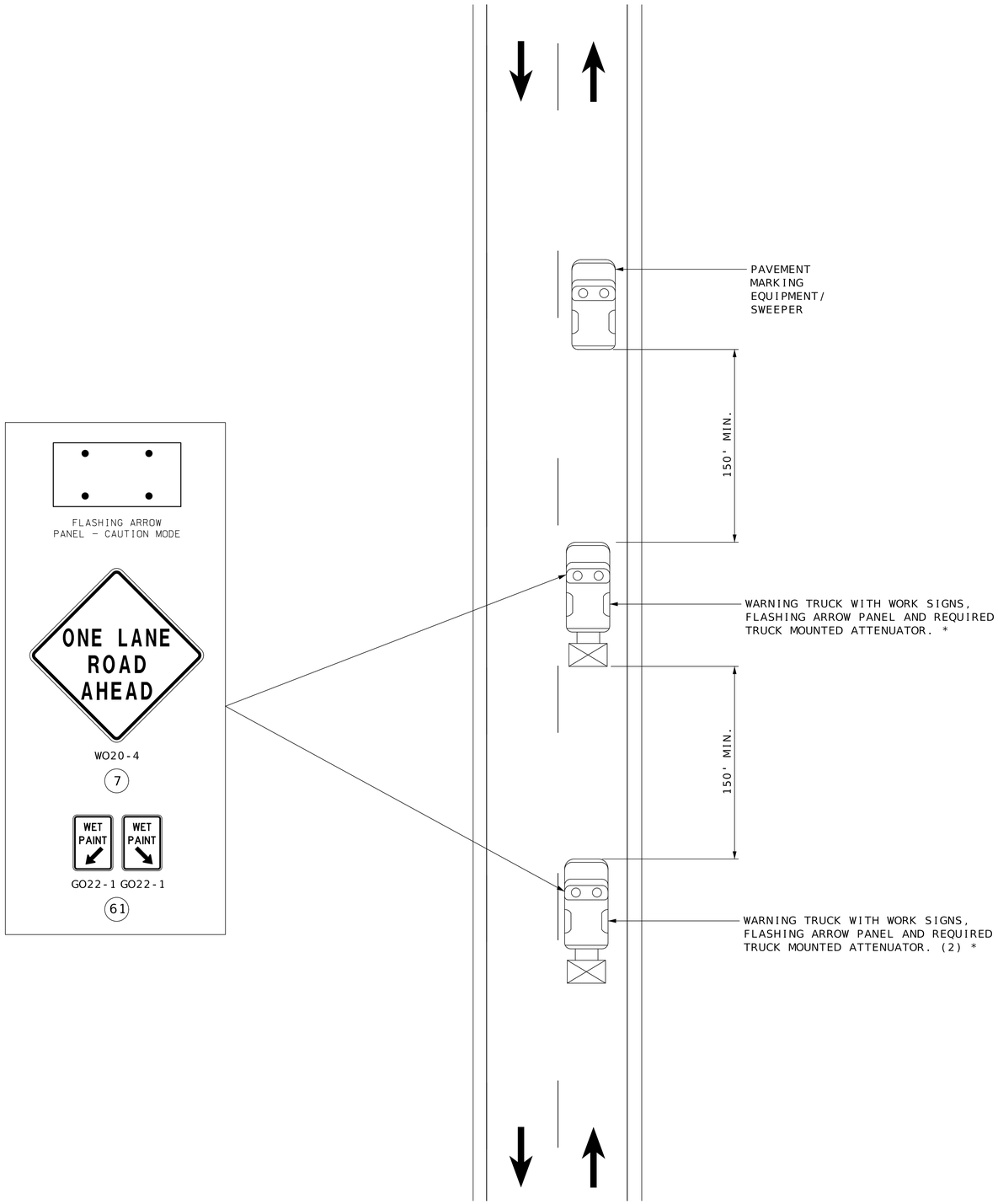
STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/2/2025	
ROUTE: E/EE	STATE: MO
DISTRICT: NW	SHEET NO.: 7
COUNTY: NODAWAY	
JOB NO.: JNW0163	
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)



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.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

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

(1) 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.

(2) WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR SPACING SHOWN, WHICH EVER IS GREATER.

* TMA COST IS INCIDENTAL - NO DIRECT PAY

SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

NOT TO SCALE

STRIPING OPERATIONS ON ROUTES E & EE

TRAFFIC CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
RICHARD W. ORR
NUMBER PE-2002003397
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/2/2025	
ROUTE	STATE
E/EE	MO
DISTRICT	SHEET NO.
NW	8
COUNTY	
NODAWAY	
JOB NO.	
JNW0163	
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)