

A.A.D.T. - 2024 = 3,386
T = 9.5%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION -
MAJOR COLLECTOR/MINOR ARTERIAL

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



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-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.

EXISTING	NEW

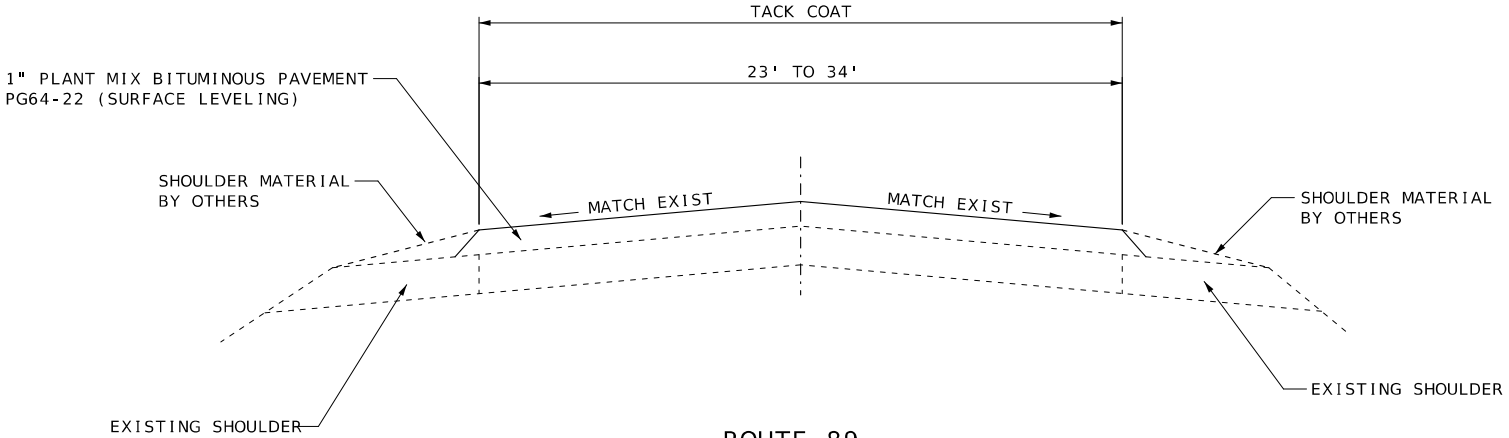
SAN
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WV
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D1
SIGN
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BM

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0.1 ACRES

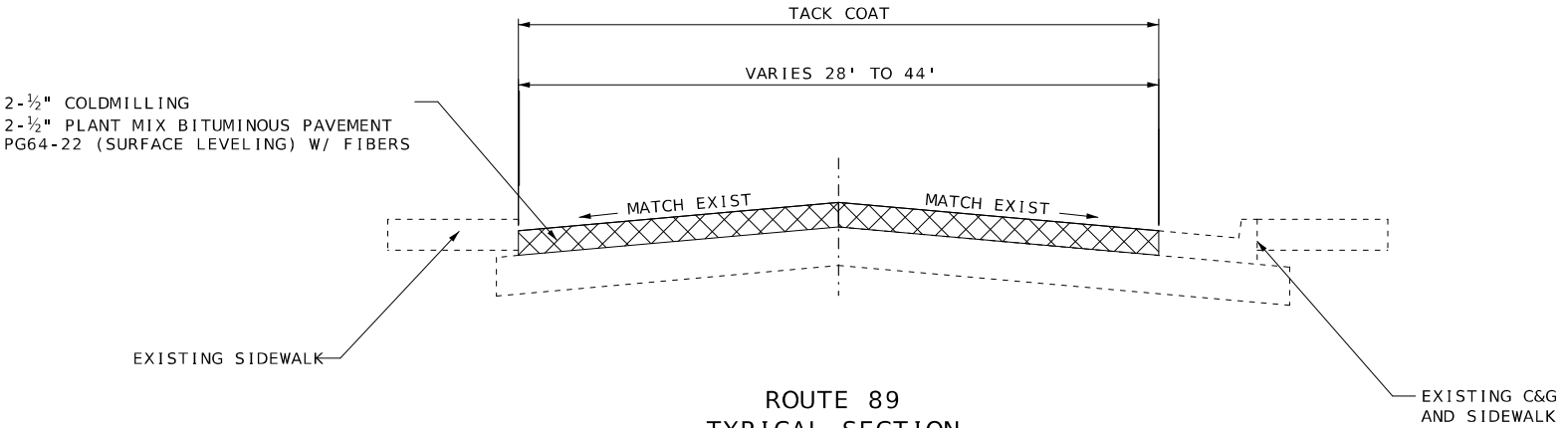
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/YD ³
TACK COAT (EXIST. ASPH.)	.08 GAL/YD ²
TACK COAT (COLDMILLED ASPH.)	.10 GAL/YD ²



ROUTE 89
TYPICAL SECTION
LOG MILE 21.499 TO LOG MILE 27.859 - 23' WIDTH
LOG MILE 27.859 TO LOG MILE 27.873 - WIDTH VAR 26' TO 30'
LOG MILE 27.927 TO LOG MILE 27.941 - WIDTH VAR 30' TO 26'
LOG MILE 27.941 TO LOG MILE 28.267 - 23' WIDTH
LOG MILE 28.267 TO LOG MILE 28.275 - WIDTH VAR 26' TO 30'
LOG MILE 28.425 TO LOG MILE 28.433 - WIDTH VAR 30' TO 26'
LOG MILE 28.433 TO LOG MILE 38.357 - 23' WIDTH
LOG MILE 38.357 TO LOG MILE 38.377 - WIDTH VAR 23' TO 30'
LOG MILE 38.377 TO LOG MILE 38.392 - 30' WIDTH
LOG MILE 38.392 TO LOG MILE 38.397 - WIDTH VAR 30' TO 34'

EXCEPTION: BRIDGE A1410 - L.M. 27.873 TO L.M. 27.927
EXCEPTION: BRIDGE A1411 - L.M. 28.275 TO L.M. 28.425



ROUTE 89
TYPICAL SECTION
LOG MILE 38.397 TO LOG MILE 38.403 - 34' WIDTH
LOG MILE 38.403 TO LOG MILE 38.473 - 44' WIDTH
LOG MILE 38.473 TO LOG MILE 38.552 - 42' WIDTH
LOG MILE 38.552 TO LOG MILE 38.618 - 38' WIDTH
LOG MILE 38.618 TO LOG MILE 38.735 - 28' WIDTH

NOTE:
SURFACE PLACEMENT SHALL BE ONE PASS PER LANE
NO S.E. CORRECTION.
SEE MODOT STD PLAN 401 FOR SAFETY EDGE DETAIL.

TYPICAL SECTION
SHEET 1 OF 1

STATE OF MISSOURI

GREGORY G. LEARY

NUMBER PE-026654

PROFESSIONAL ENGINEER

08/05/2025 3:32:29 PM

GREGORY G. LEARY - CIVIL

MO-PE-026654

DATE PREPARED

8/5/2025

ROUTE

89

STATE

MO

DISTRICT

CD

SHEET NO.

2

COUNTY

OSAGE/MARIES

JOB NO.

JCD0150

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)

CLASS 1 PAVEMENT MARKING PAINT (18-MIL , TYPE P BEADS)						
LOG MILE	LOG MILE	LOCATION	LENGTH FT	4" YELLOW LF	4" WHITE LF	REMARKS
21.499	26.862	ROUTE 89	28316.64	56633.28	56633.28	DOUBLE YELLOW
26.862	27.022	ROUTE 89	844.8	1056	1689.6	SB PASSING ZONE
27.022	27.185	ROUTE 89	860.64	1075.8	1721.28	NB PASSING ZONE
27.185	27.743	ROUTE 89	2946.24	5892.48	5892.48	DOUBLE YELLOW
27.743	27.873	ROUTE 89	686.4	858	1372.8	SB PASSING ZONE
27.873	28.063	ROUTE 89	1003.2	250.8	2006.4	INT PASSING
28.063	28.115	ROUTE 89	274.56	549.12	549	DOUBLE YELLOW
28.115	28.148	ROUTE 89	174.24	312.5	530	ROUTE 89 & E INTERSECTION
28.148	28.181	ROUTE 89	174.24	217.8	348.48	SB PASSING ZONE
28.181	28.355	ROUTE 89	918.72	229.68	1837.44	INT PASSING
28.355	28.545	ROUTE 89	1003.2	1254	2006.4	NB PASSING ZONE
28.545	28.681	ROUTE 89	718.08	1436.16	1436.16	DOUBLE YELLOW
28.681	28.791	ROUTE 89	580.8	726	1161.6	SB PASSING ZONE
28.791	28.819	ROUTE 89	147.84	295.68	295.68	DOUBLE YELLOW
28.819	28.979	ROUTE 89	844.8	1056	1689.6	NB PASSING ZONE
28.979	30.319	ROUTE 89	7075.2	14150.4	14150.4	DOUBLE YELLOW
30.319	30.414	ROUTE 89	501.6	627	1003.2	NB PASSING ZONE
30.414	31.468	ROUTE 89	5565.12	11130.24	11130.24	DOUBLE YELLOW
31.468	31.645	ROUTE 89	934.56	1168.2	1869.12	SB PASSING ZONE
31.645	31.762	ROUTE 89	617.76	154.44	1235.52	INT PASSING
31.762	31.918	ROUTE 89	823.68	1029.6	1647.36	NB PASSING ZONE
31.918	32.037	ROUTE 89	628.32	785.4	1256.64	SB PASSING ZONE
32.037	32.075	ROUTE 89	200.64	401.28	401.28	DOUBLE YELLOW
32.075	32.193	ROUTE 89	623.04	778.8	1246.08	NB PASSING ZONE
32.193	32.437	ROUTE 89	1288.32	2576.64	2576.64	DOUBLE YELLOW
32.437	32.572	ROUTE 89	712.8	891	1425.6	SB PASSING ZONE
32.572	32.655	ROUTE 89	438.24	109.56	876.48	INT PASSING
32.655	32.75	ROUTE 89	501.6	627	1003.2	NB PASSING ZONE
32.75	32.868	ROUTE 89	623.04	778.8	1246.08	SB PASSING ZONE
32.868	33.017	ROUTE 89	786.72	983.4	1573.44	NB PASSING ZONE
33.017	33.636	ROUTE 89	3268.32	6536.64	6536.64	DOUBLE YELLOW
33.636	33.736	ROUTE 89	528	660	1056	SB PASSING ZONE
33.736	34.335	ROUTE 89	3162.72	6325.44	6325.44	DOUBLE YELLOW
34.335	34.518	ROUTE 89	966.24	1207.8	1932.48	SB PASSING ZONE
34.518	34.653	ROUTE 89	712.8	891	1425.6	NB PASSING ZONE
34.653	36.382	ROUTE 89	9129.12	18258.24	18258.24	DOUBLE YELLOW
36.382	36.485	ROUTE 89	543.84	679.8	1087.68	SB PASSING ZONE
36.485	38.072	ROUTE 89	8379.36	16758.72	16758.72	DOUBLE YELLOW
38.072	38.332	ROUTE 89	1372.8	2745.6		DOUBLE YELLOW ONLY
38.332	38.438	ROUTE 89	559.68	699.6		SB PASSING ZONE ONLY
38.438	38.536	ROUTE 89	517.44	129.36		INT PASSING ONLY
38.536	38.558	ROUTE 89	116.16	232.32		DOUBLE YELLOW ONLY
38.558	38.567	ROUTE 89	47.52			ROUTE M INTERSECTION
38.567	38.588	ROUTE 89	110.88	221.76		DOUBLE YELLOW ONLY
38.588	38.705	ROUTE 89	617.76	772.2		NB PASSING ZONE ONLY
38.705	38.735	ROUTE 89	158.4	316.8		DOUBLE YELLOW ONLY
			TOTAL	164,470	175,192	ALL PAVEMENT MARKING TO MATCH EXISTING. LOCATE
			USE	164,470	175,192	BEFORE OVERLAY WORK.

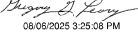
MGS GUARDRAIL						
LOG MILE	LOG MILE	LOCATION	MGS GUARDRAIL			REMARKS
			8' POSTS GUARDRAIL LF	CRASHWORTHY END TERMINAL EA	SHAPING SLOPES CLASS III 100 FT	
27.526	27.682	MO 89 - LT	725.0	2	1.50	
27.559	27.578	MO 89 - RT		2	1.50	
27.592	27.661	MO 89 - RT	262.5	2	1.50	
28.520	28.681	MO 89 - LT	750.0	2	1.50	
28.701	28.774	MO 89 - LT	287.5	2	1.50	
28.866	28.942	MO 89 - RT	300.0	2	1.50	
						NOTE:
		TOTAL	2325.0	12	9.00	SHAPING SLOPES CLASS III QUANTIFIED FOR
		USE	2325	12	9	CRASHWORTHY END TERMINALS ONLY

STATE OF MISSOURI

GREGORY G. LEARY

NUMBER
PE-026654

PROFESSIONAL ENGINEER



08/05/2025 3:25:08 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED
8/5/2025

ROUTE
89

DISTRICT
CD

STATE
MO

SHEET NO.
3

COUNTY
OSAGE/MARIES

JOB NO.
JCD0150

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)

8/5/2025

89	MO
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CD	3
COUNTY	

USAGL/MARTLES
LOB NO

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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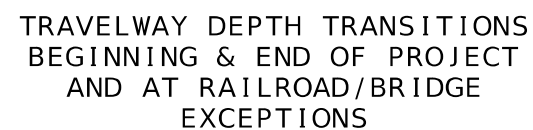
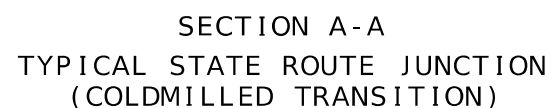
Keywords: child sexual abuse; disclosure; social support

[illegible][illegible][illegible][illegible]

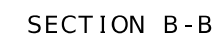
[illegible][illegible]

Page 10 of 10

SUMMARY OF QUANTITIES
SHEET 4 OF 4

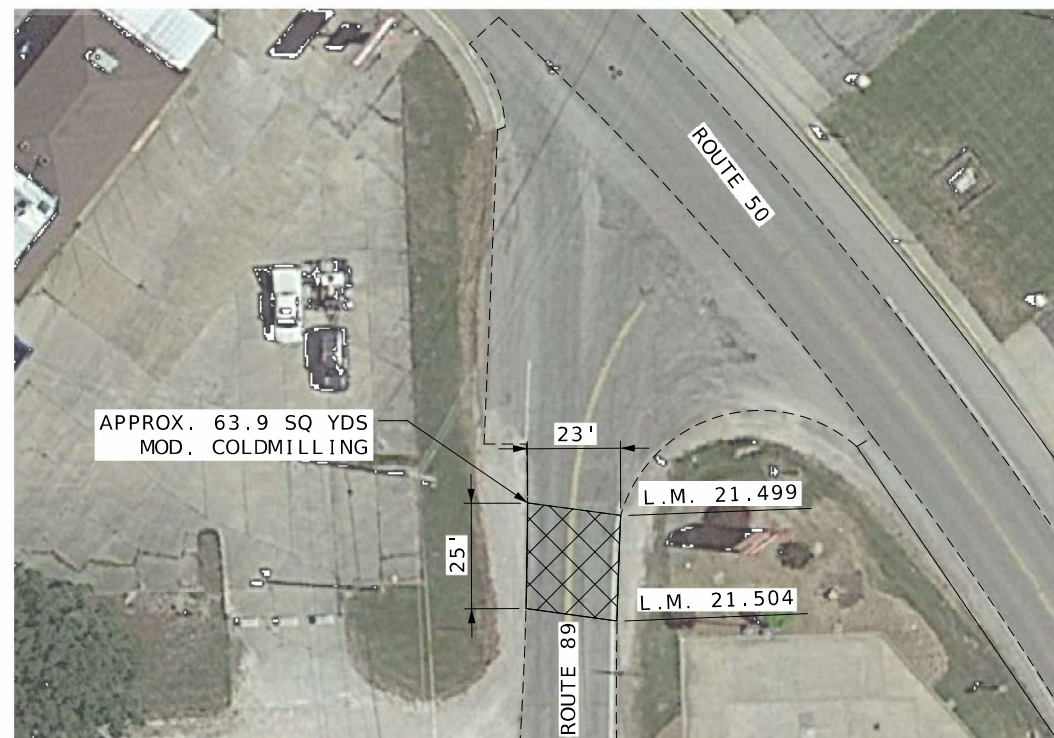


TYPICAL GRAVEL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE

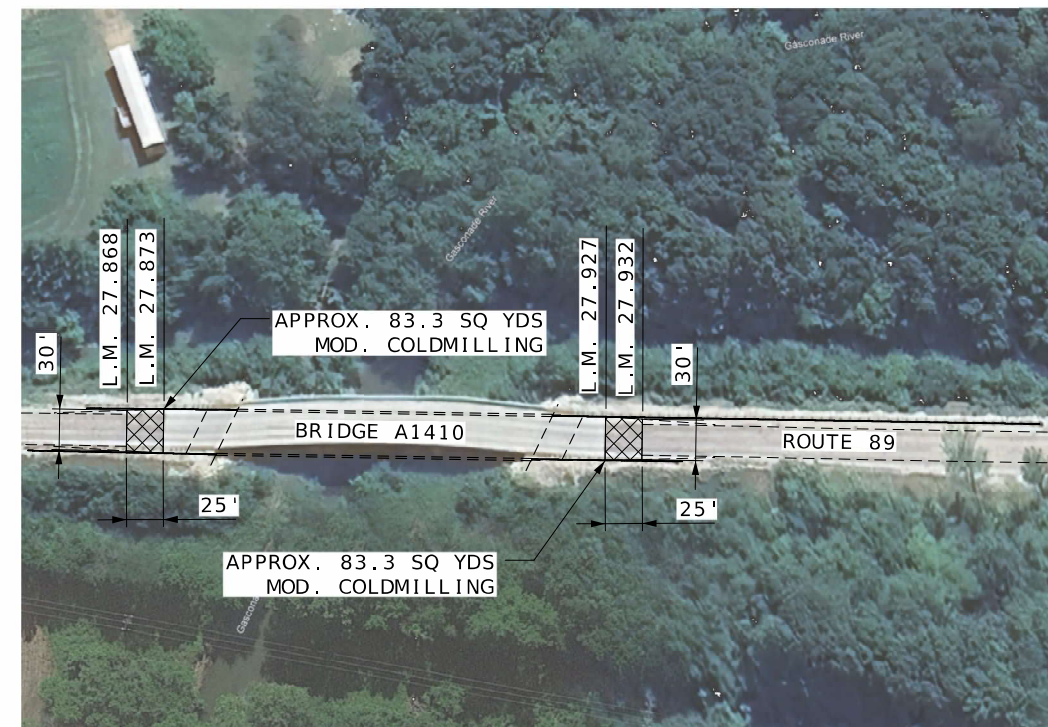


TYPICAL CONCRETE/BITUMINOUS ENTRANCE
MODIFIED COLDMILL DETAIL
(PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



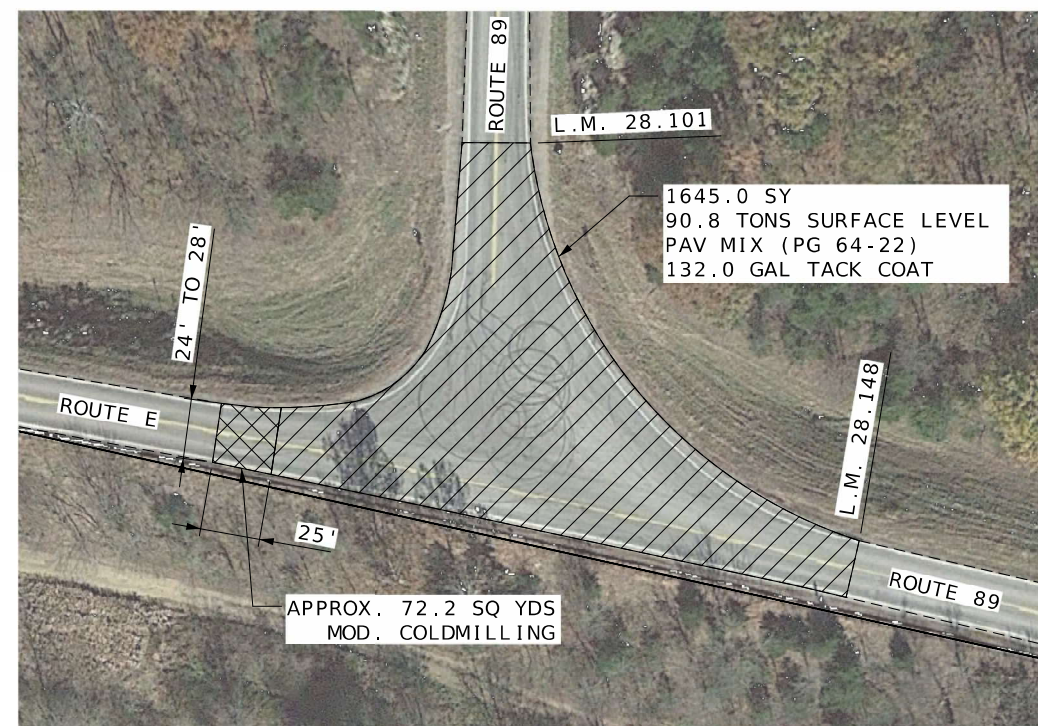


ROUTE 50 AND ROUTE 89 INTERSECTION
BEGIN PROJECT - LOG MILE 21.499



ROUTE 89 - BRIDGE A1410
LOG MILE 27.873 TO LOG MILE 27.927

NOT TO SCALE

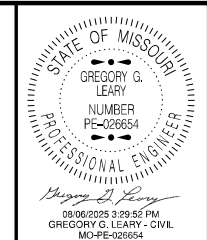


ROUTE 89 AND ROUTE E INTERSECTION
LOG MILE 28.101 TO LOG MILE 28.148



ROUTE 89 - BRIDGE A1411
LOG MILE 28.275 TO LOG MILE 28.425

SPECIAL SHEET
INTERSECTION PAVING
SHEET 2 OF 5



DATE PREPARED
8/5/2025

ROUTE	STATE
89	MO

DISTRICT	SHEET NO.
CD	5

COUNTY
OSAGE / MARIES

JOB NO.
LCD0150

CONTRACT ID.

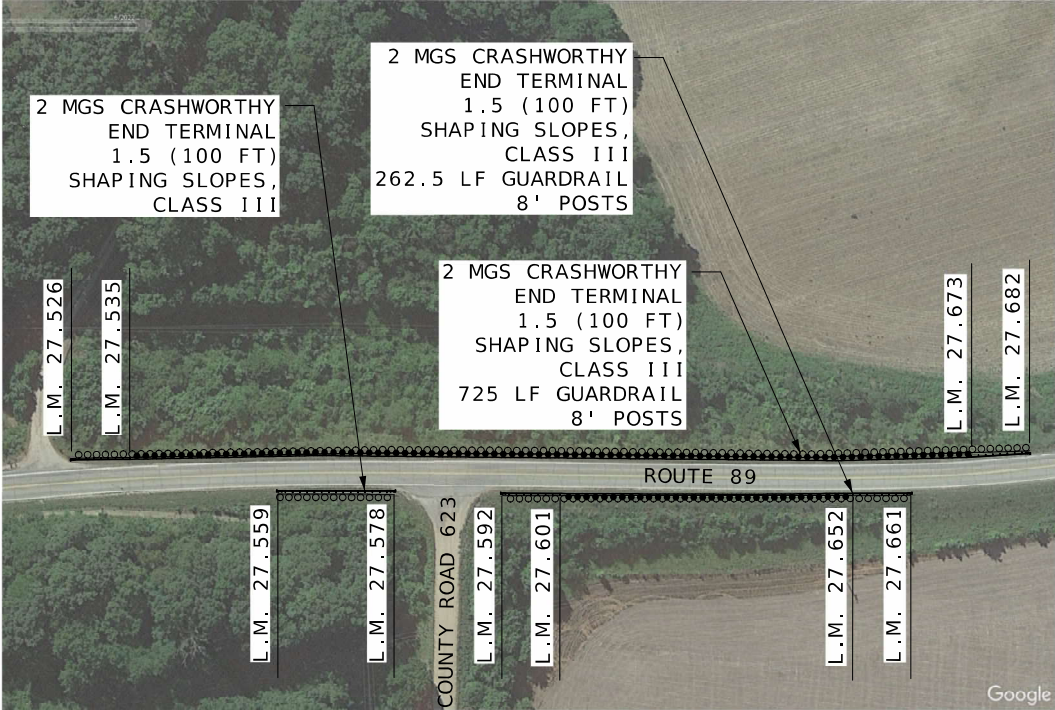
PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

GENERAL NOTE:
ALL PROPOSED MGS GUARDRAIL SHALL BE INSTALLED 4' OFFSET FROM EOP,
OR AS APPROVED BY THE ENGINEER.



ROUTE 89 & COUNTY ROAD 623 - GUARDRAIL
LOG MILE 27.526 TO LOG MILE 27.682

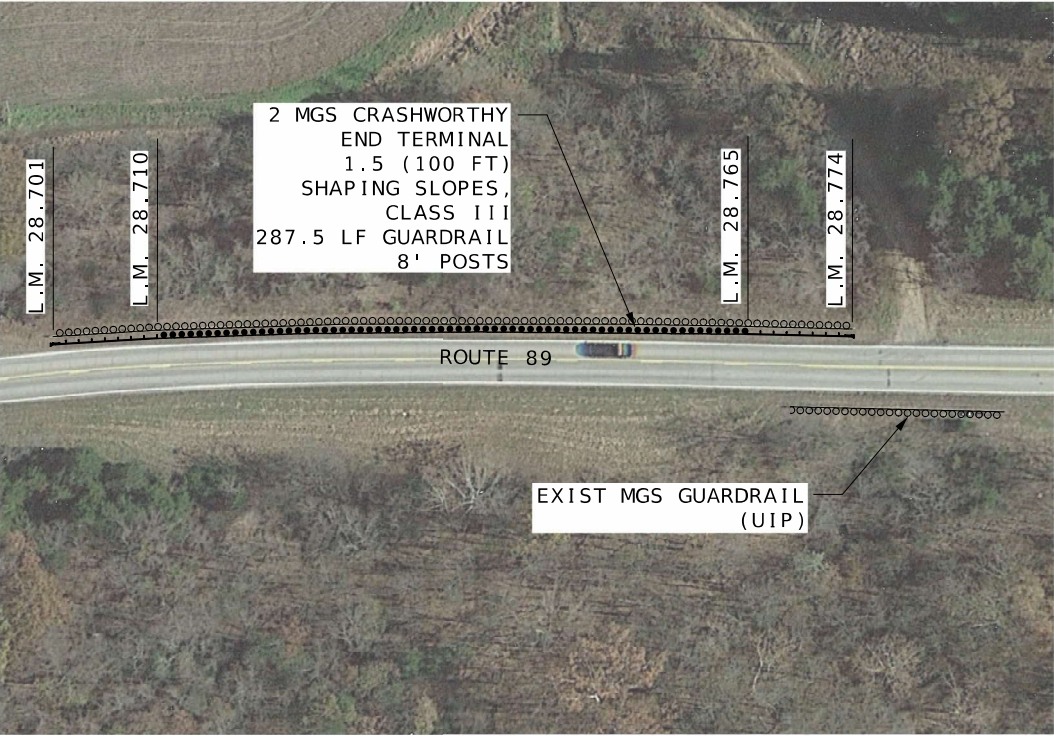
NOTE:
REMOVE 820 LF, 100 LF, AND 365 LF OF EXIST GUARDRAIL



ROUTE 89 - GUARDRAIL
LOG MILE 28.520 TO LOG MILE 28.681

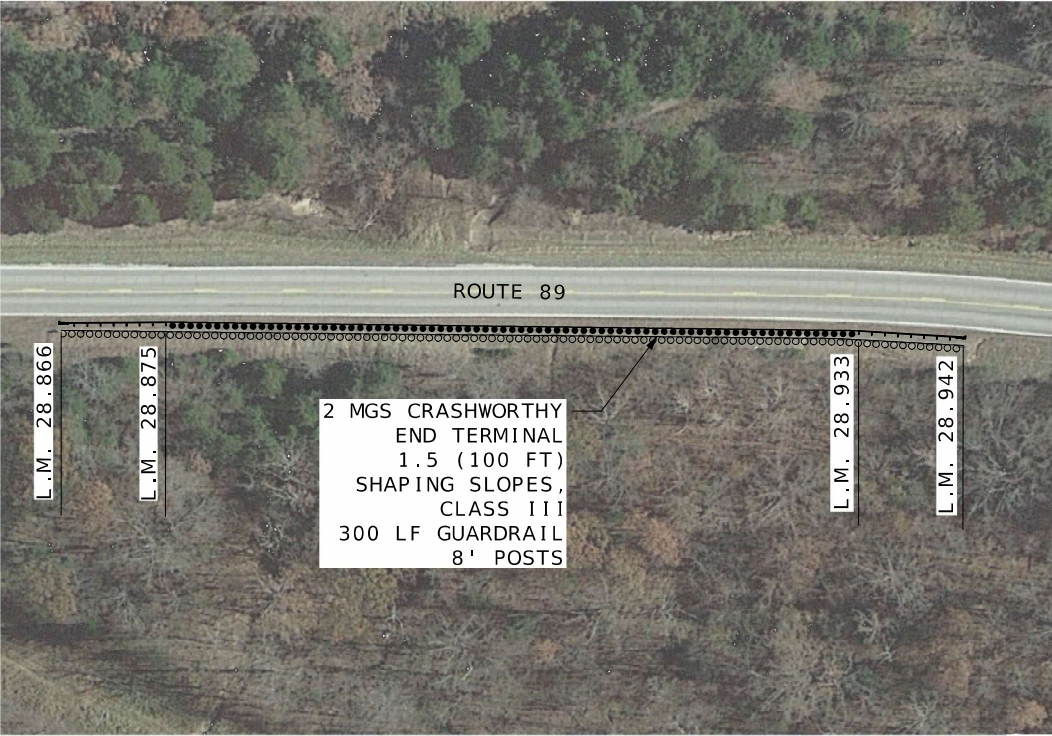
NOTE:
REMOVE 765 LF OF EXIST GUARDRAIL

NOT TO SCALE



ROUTE 89 - GUARDRAIL
LOG MILE 28.701 TO LOG MILE 28.774

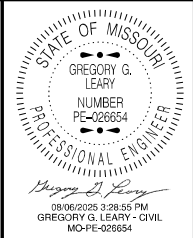
NOTE:
REMOVE 380 LF OF EXIST GUARDRAIL



ROUTE 89 - GUARDRAIL
LOG MILE 28.866 TO LOG MILE 28.942

NOTE:
REMOVE 385 LF OF EXIST GUARDRAIL

SPECIAL SHEET
INTERSECTION PAVING
SHEET 3 OF 5



DATE PREPARED
8/5/2025

ROUTE 89	STATE MO
DISTRICT CD	SHEET NO. 6
COUNTY OSAGE/MARIES	
JOB NO. JCD0150	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

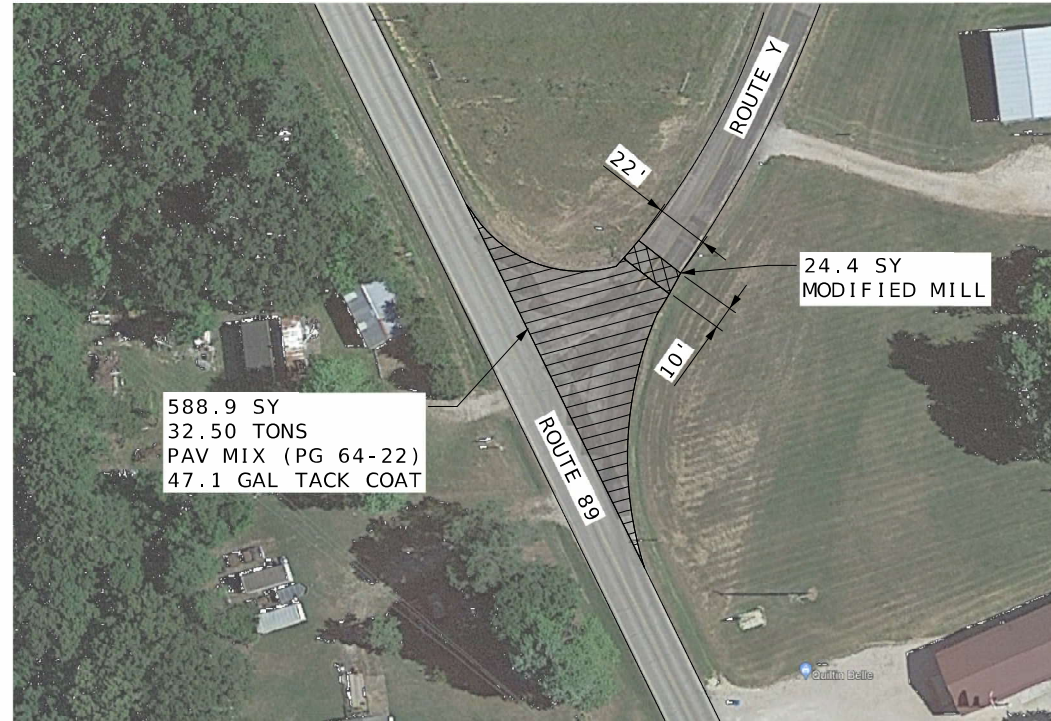
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

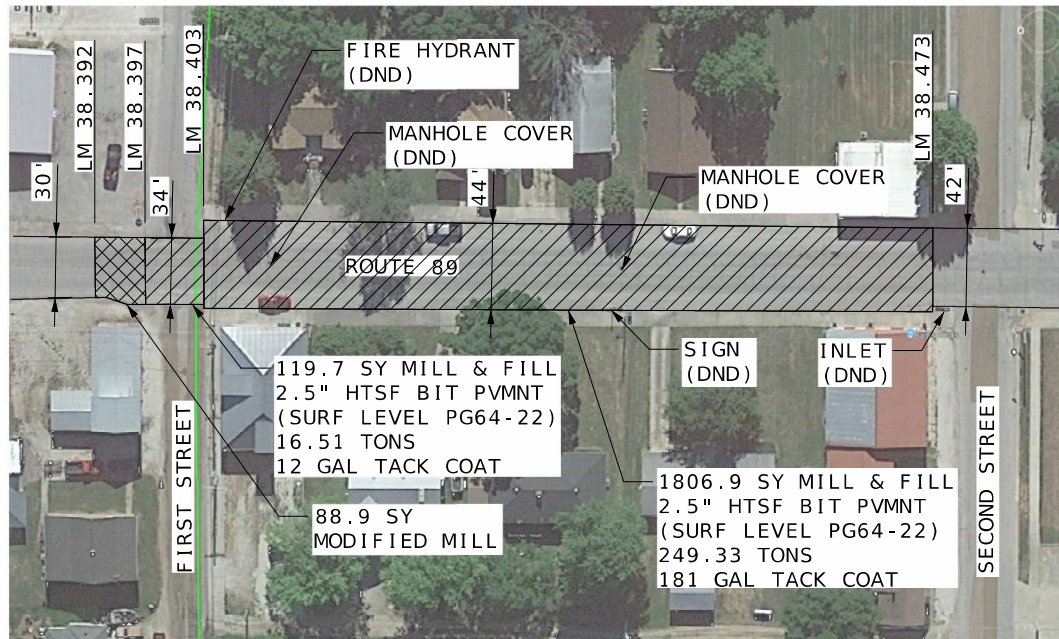


ROUTE 89 AND ROUTE D INTERSECTION
LOG MILE 33.999

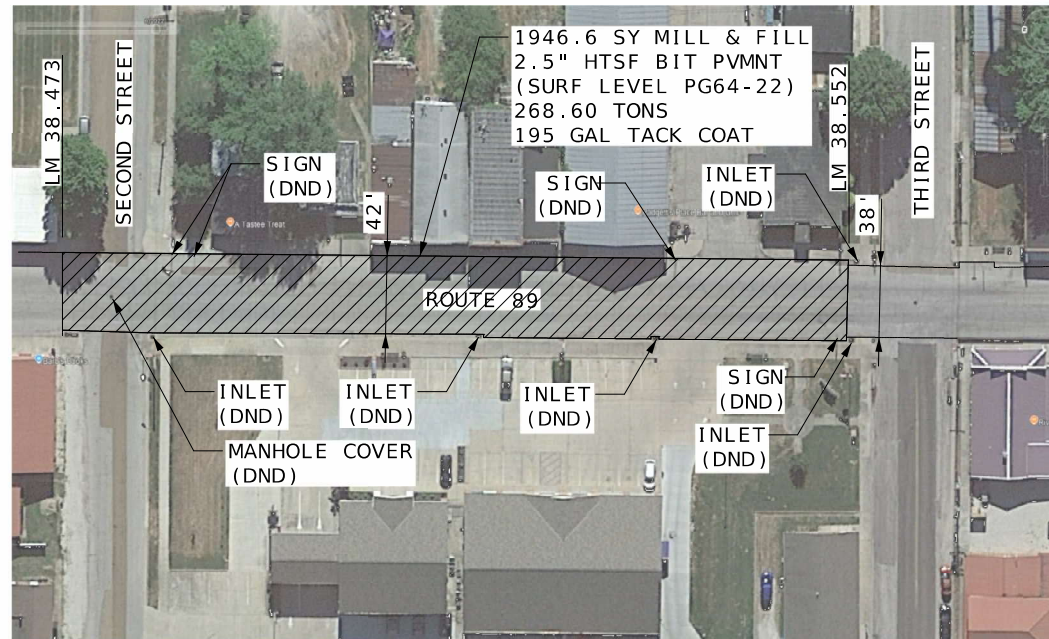


ROUTE 89 AND ROUTE Y INTERSECTION
LOG MILE 37.546

NOT TO SCALE

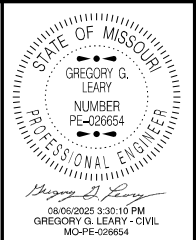


MILL & FILL THROUGH BELLE - FIRST ST TO SECOND ST
LOG MILE 38.397 TO LOG MILE 38.473



MILL & FILL THROUGH BELLE - SECOND ST TO THIRD ST
LOG MILE 38.473 TO LOG MILE 38.552

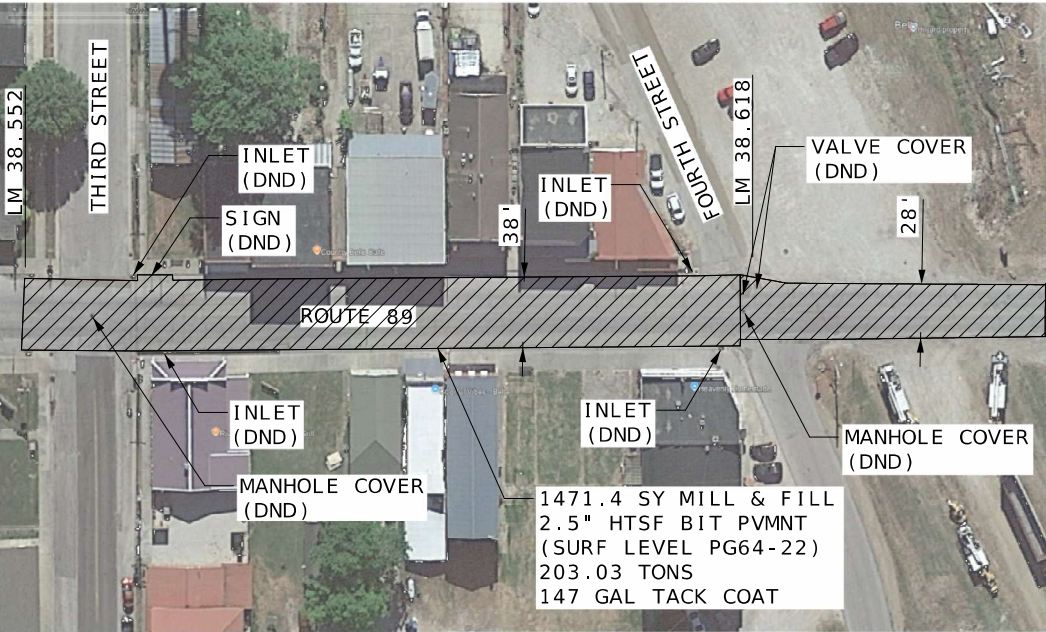
SPECIAL SHEET
INTERSECTION PAVING/
BELLE MILL & FILL
SHEET 4 OF 5



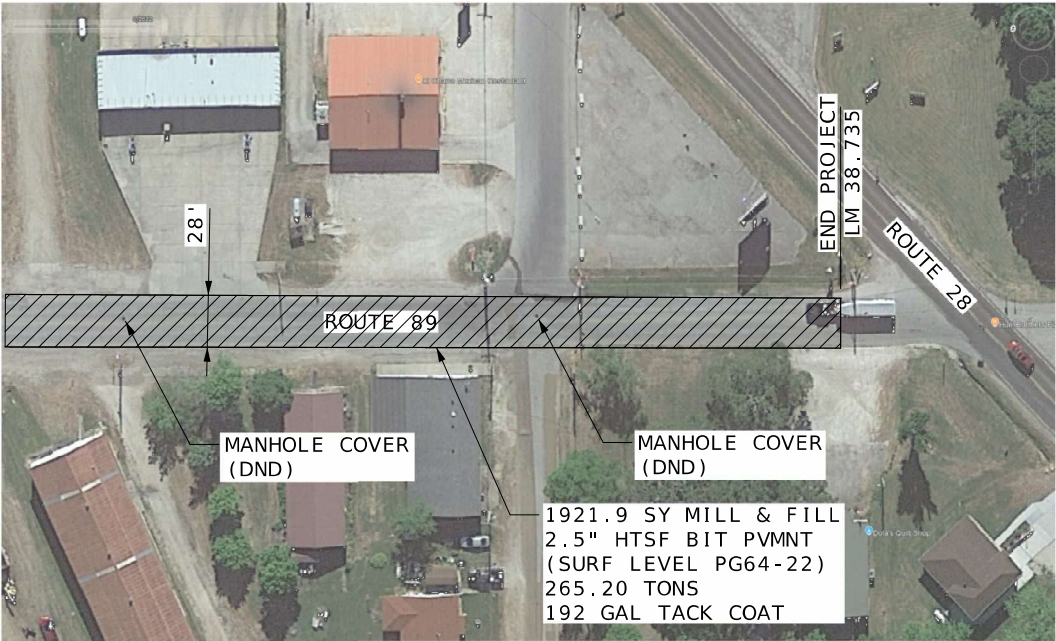
DATE PREPARED	8/5/2025
ROUTE	89
STATE	MO
DISTRICT	CD
SHEET NO.	7
COUNTY	OSAGE/MARIES
JOB NO.	JCD0150
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION





MILL & FILL THROUGH BELLE - THIRD ST TO FOURTH ST
LOG MILE 38.552 TO LOG MILE 38.618



MILL & FILL THROUGH BELLE - FOURTH ST TO END OF PROJECT
LOG MILE 38.618 TO LOG MILE 38.735

NOT TO SCALE

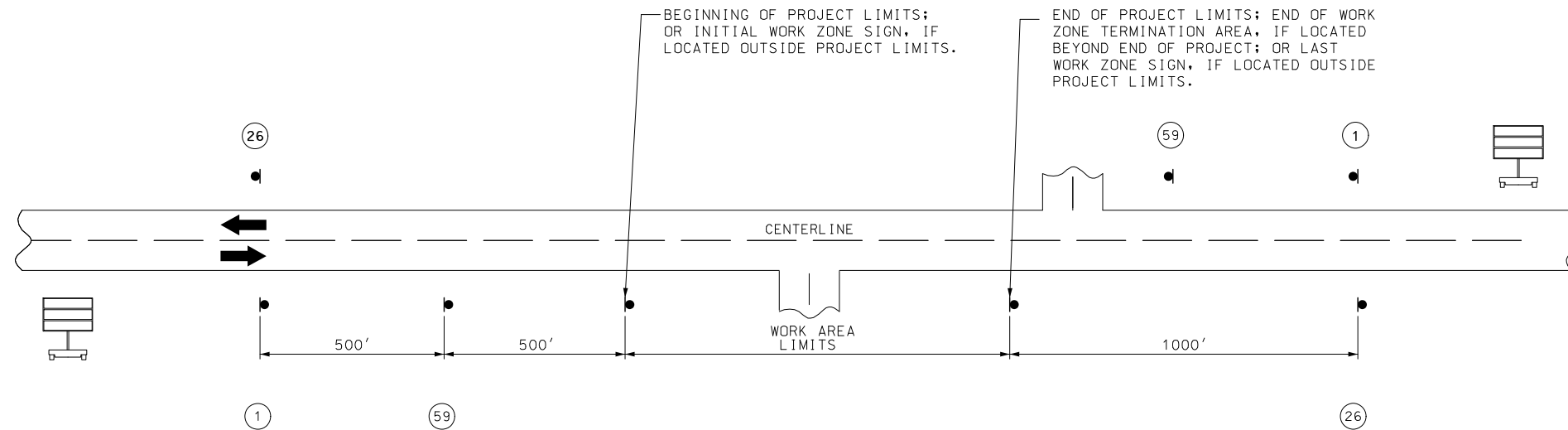


DATE PREPARED
8/5/2025
ROUTE 89 STATE MO
DISTRICT CD SHEET NO. 8
COUNTY OSAGE/MARIES
JOB NO. JCD0150
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

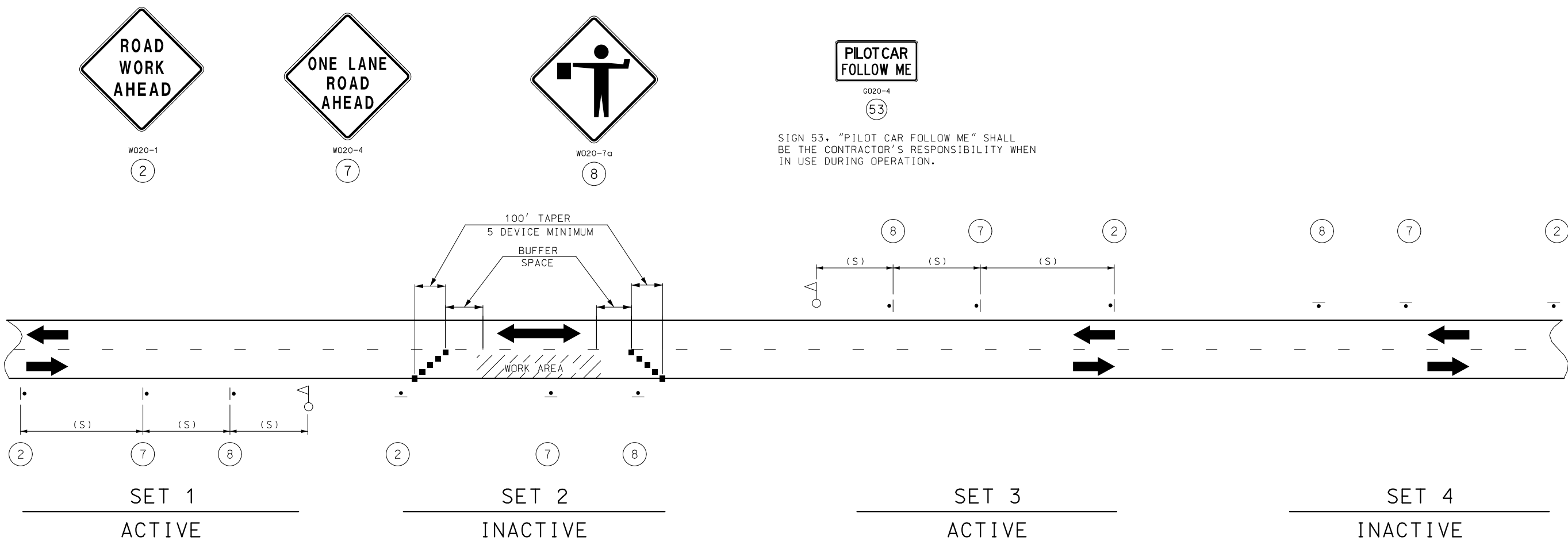
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.





NOTES:

THIS PLAN IS FOR DAYLIGHT FLAGGING OPERATIONS ONLY. WHEN NIGHT WORK IS REQUIRED, OR OTHERWISE ALLOWED BY THE ENGINEER, WORK ZONE LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SEC 616.5.2.

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).

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.

STATE OF MISSOURI

GREGORY G. LEARY

NUMBER PE-026654

PROFESSIONAL ENGINEER

08/06/2025 3:24:48 PM

GREGORY G. LEARY - CIVIL

MO-PE-026654

DATE PREPARED

8/5/2025

ROUTE

89

STATE

MO

DISTRICT

CD

SHEET NO.

10

COUNTY

OSAGE

JOB NO.

JCD0150

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

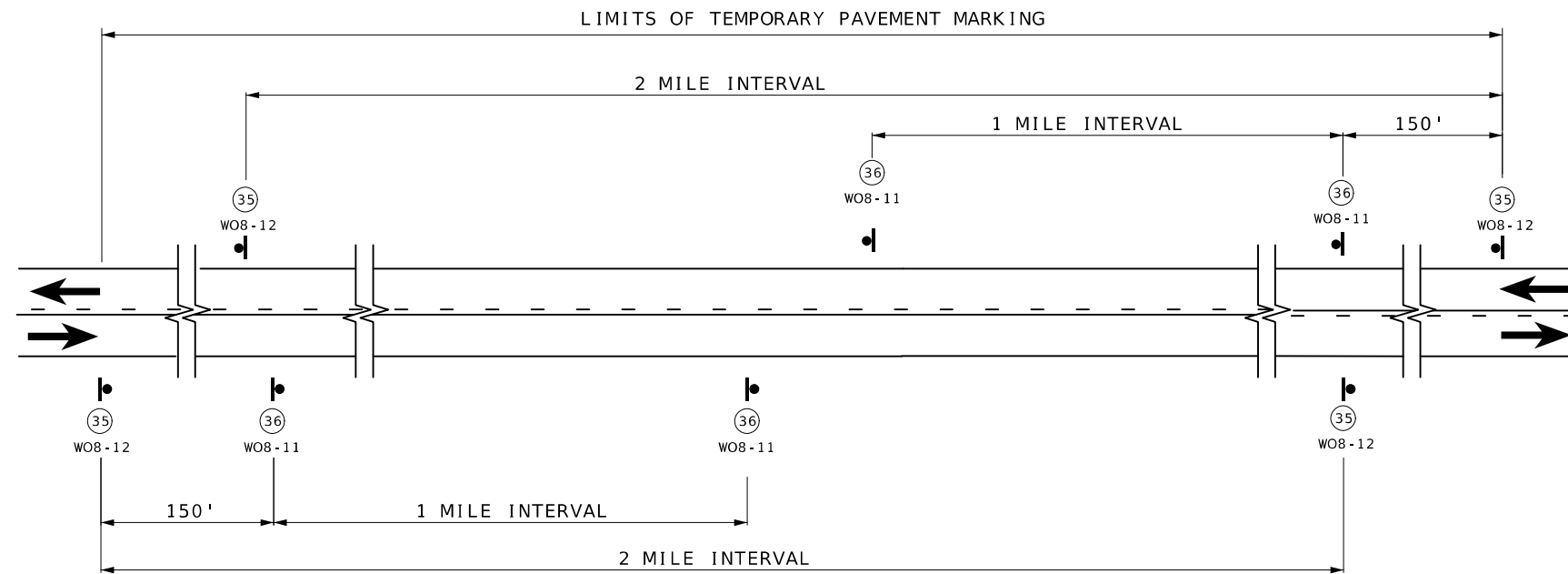
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

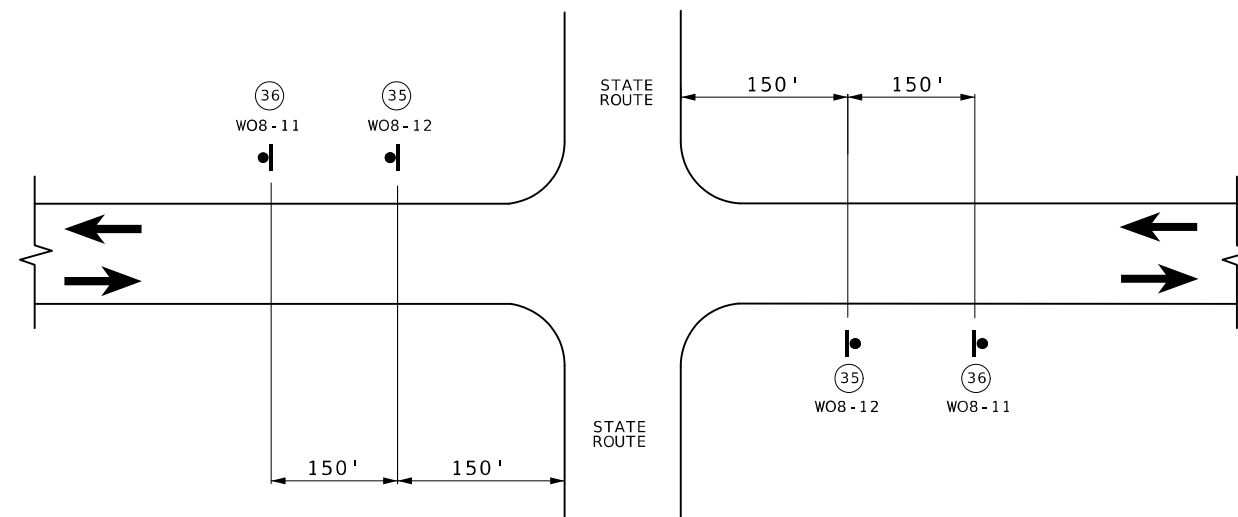
JEFFERSON CITY, MO 65102

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

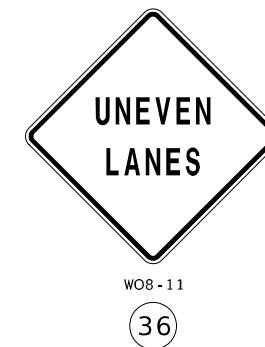
TRAFFIC CONTROL
SHEET 2 OF 5



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.

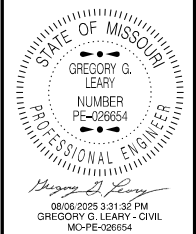
SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

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

SHEET 4 OF 5



DATE PREPARED

8/5/2025

ROUTE	STATE
00	10

89	MO
----	----

DISTRICT	SHEET NO.
GD	12

CD	12
----	----

COUNTY

OSAGE / MAR I ES

JOB NO.

JCD0150

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

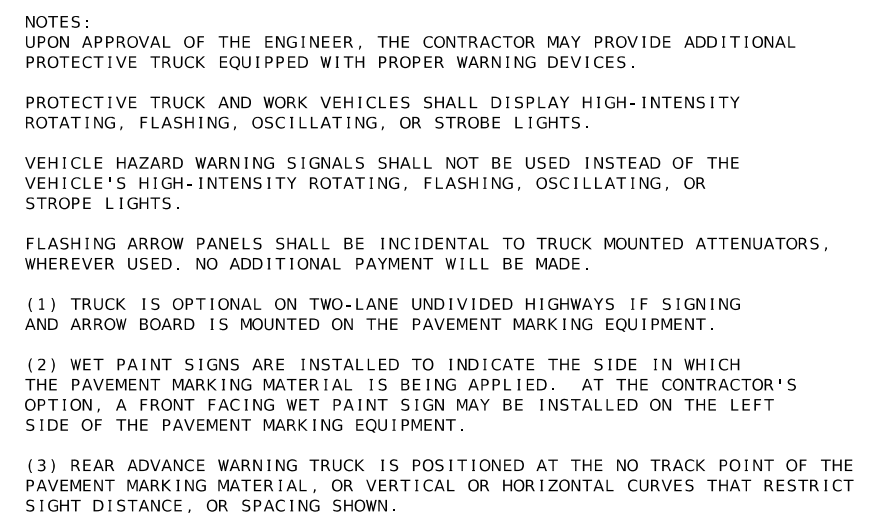
[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

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

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

[illegible]

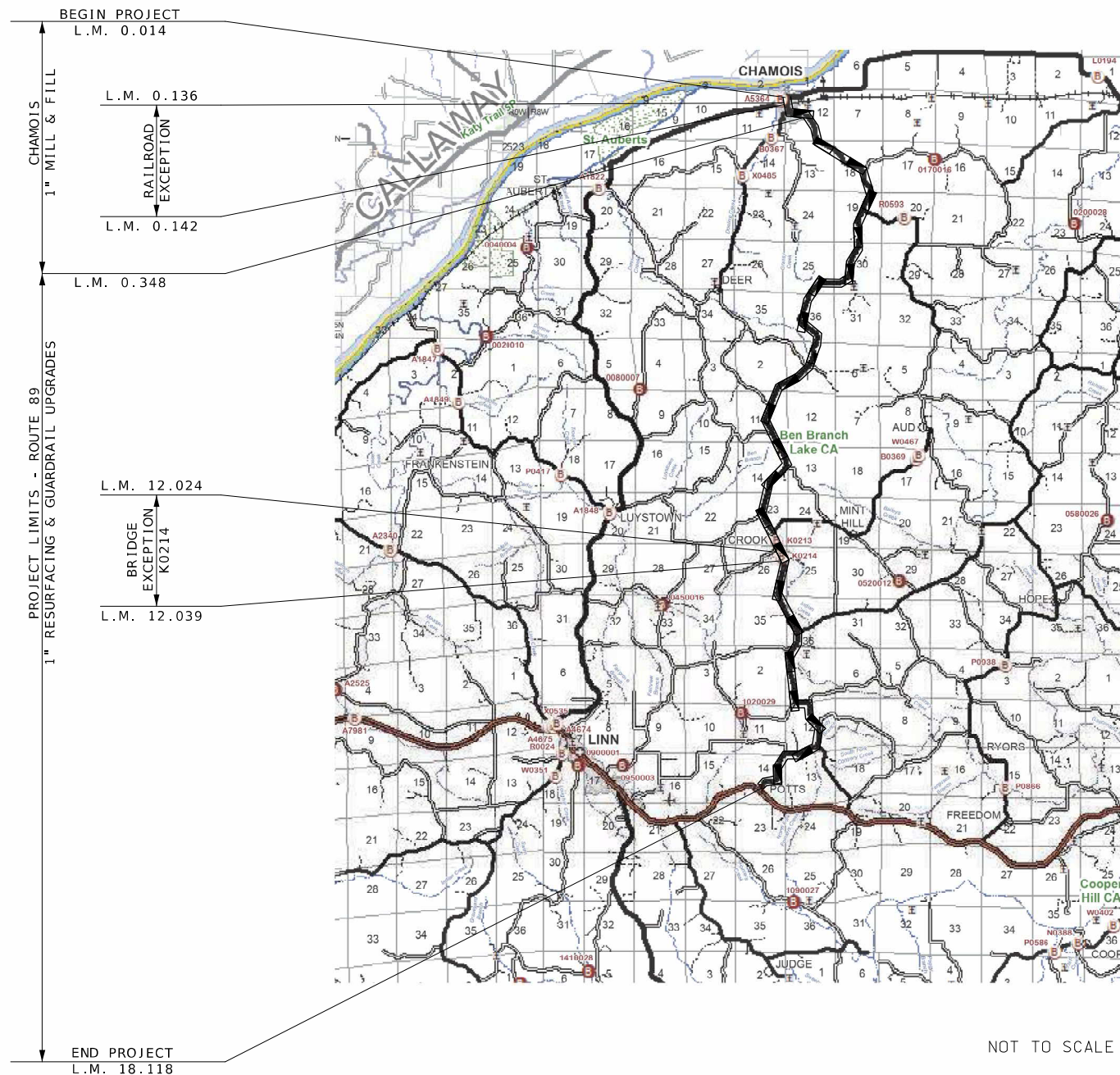
A.A.D.T. - 2024 = 1,478
T = 10.2%
V = 55 M.P.H.

NO NEW RIGHT OF WAY
REQUIRED

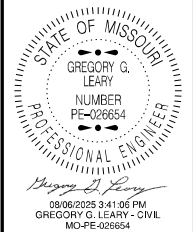
BUILDINGS AND STRUCTURES
GUARD RAIL
GUARD CABLE
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER
LOCATION SURVEY MARKER
UTILITIES
FIBER OPTICS
OVERHEAD CABLE TV
UNDERGROUND CABLE TV
OVERHEAD TELEPHONE
UNDERGROUND TELEPHONE
OVERHEAD POWER
UNDERGROUND POWER
SANITARY SEWER
STORM SEWER
GAS
WATER

EXISTING		NEW
-FO-		-FO-
-OTV-		-OTV-
-UTV-		-UTV-
-OT-		-OT-
-UT-		-UT-
-OE-		-OE-
-UE-		-UE-
-S-		-S-
-SS-		-SS-
-G-		-G-
-W-		-W-
SAN		
HYD		
WW		
WM		
PI		
SIGN		
PED		
		V
		X
		BH

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



DESCRIPTION	NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)---	2
QUANTITIES (QU) (3 SHEETS)-----	3
SPECIAL SHEETS (SS) -----	4-6
TRAFFIC CONTROL SHEETS (TC)-----	7-11



DATE PREPARED	
8/5/2025	
ROUTE	STATE
89	MO
DISTRICT	SHEET NO.
CD	1
COUNTY	
OSAGE	
JOB NO.	
JCD0151	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

BEGINNING OF PROJECT	L.M. 0.014
END OF PROJECT	L.M. 18.118
APPARENT LENGTH	95,589.12 FEET

RAILROAD EXCEPTION	LM 0.136 - LM 0.142 31.68 FEET
BRIDGE K0214 EXCEPTION	LM 12.024-LM 12.039 79.20 FEET

TOTAL CORRECTIONS	110.88	FEET
NET LENGTH OF PROJECT	95,478.24	FEET
STATE LENGTH	18.083	MILES

FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES	0.0	ACRES

DESCRIPTION

DATE _____

MISSOURI HIGHWAYS AND TRANSPORTATION

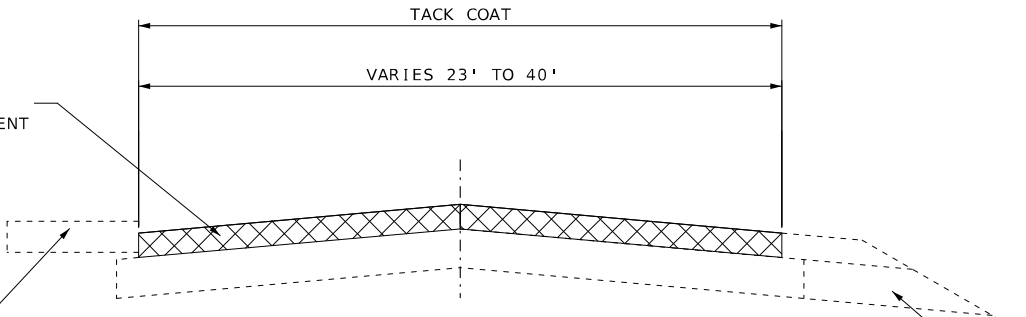


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



1" COLDMILLING
1" PLANT MIX BITUMINOUS PAVEMENT
PG64-22 (SURFACE LEVELING)

EXISTING SIDEWALK



EXISTING SHOULDER

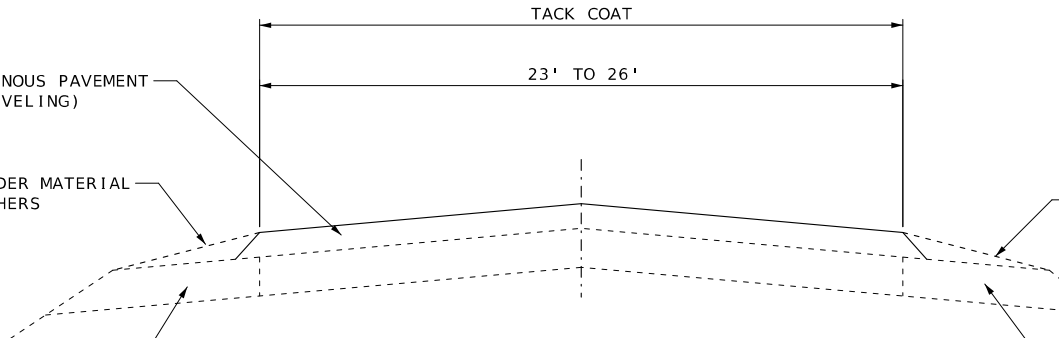
ROUTE 89
TYPICAL SECTION
LOG MILE 0.014 TO LOG MILE 0.127 - 23' WIDTH
LOG MILE 0.127 TO LOG MILE 0.136 - 23' TO 40' WIDTH
LOG MILE 0.142 TO LOG MILE 0.151 - 40' TO 27' WIDTH
LOG MILE 0.151 TO LOG MILE 0.167 - 27' WIDTH
LOG MILE 0.167 TO LOG MILE 0.302 - 32' WIDTH
LOG MILE 0.302 TO LOG MILE 0.348 - 23' WIDTH

EXCEPTION: RR CROSSING - L.M. 0.136 TO L.M. 0.142

1" PLANT MIX BITUMINOUS PAVEMENT
PG64-22 (SURFACE LEVELING)

SHOULDER MATERIAL
BY OTHERS

EXISTING SHOULDER



SHOULDER MATERIAL
BY OTHERS

EXISTING SHOULDER

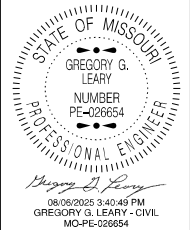
ROUTE 89
TYPICAL SECTION
LOG MILE 0.348 TO LOG MILE 12.024 - 23' WIDTH
LOG MILE 12.039 TO LOG MILE 18.096 - 23' WIDTH
LOG MILE 18.096 TO LOG MILE 18.118 - 23' TO 26' WIDTH

EXCEPTION: BRIDGE K0214 - L.M. 12.024 TO L.M. 12.039

NOTE:
SURFACE PLACEMENT SHALL BE ONE PASS PER LANE
NO S.E. CORRECTION.
SEE MODOT STD PLAN 401 FOR SAFETY EDGE DETAIL.

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/CY
TACK COAT (EXIST. ASPH.)	0.08 GAL/SY
TACK COAT (COLDMILLED ASPH.)	0.10 GAL/SY

TYPICAL SECTION
SHEET 1 OF 1



DATE PREPARED 8/5/2025	
ROUTE 89	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY OSAGE	
JOB NO. JCD0151	
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)

1" BITUMINOUS PAVEMENT MIX PG64-22 (SURFACE LEVELING)									
LOG MILE	LOG MILE	LOCATION	MILES	LENGTH FT	WIDTH FT	AVERAGE AREA SF	1" SURFACE LEVEL 1.987 TONS/CY TONS	TACK COAT GALLONS	REMARKS
0.014	0.127	ROUTE 89	0.113	596.64	23	13722.72	84.15	152.0	BEGIN PROJECT - MILL & FILL
0.127	0.136	ROUTE 89	0.009	48	VAR	1555	9.54	17.3	NORTH RR APPROACH - SPECIAL SHEET 2
0.136	0.142	ROUTE 89	0.006	31.68					RAILROAD EXCEPTION
0.142	0.151	ROUTE 89	0.009	45	VAR	1372	8.41	15.2	SOUTH RR APPROACH - SPECIAL SHEET 2
0.151	0.167	ROUTE 89	0.016	84.48	27	2280.96	13.99	25.3	MILL & FILL
0.167	0.302	ROUTE 89	0.135	712.8	32	22809.6	139.88	253.4	MILL & FILL
0.302	0.348	ROUTE 89	0.046	242.88	23	5586.24	34.26	62.1	MILL & FILL
0.348	12.024	ROUTE 89	11.676	61649.28	23		8695.44	12604.0	
12.024	12.039	ROUTE 89	0.015	79.2					BRIDGE K0214 EXCEPTION
12.039	18.096	ROUTE 89	6.057	31980.96	23		4510.81	6538.0	
18.096	18.118	ROUTE 89	0.022	116.16	24.5		17.45	25.0	WIDTH VAR. 23' TO 26'
3.360		ROUTE 89		10	VAR.	1066	6.54	12.0	ROUTE FF INTERSECTION
11.460		ROUTE 89		10	VAR.	1265	7.76	14.0	ROUTE HH INTERSECTION
13.657		ROUTE 89		10	VAR.	2263	13.88	25.0	ROUTE J INTERSECTION
							83.6	150.0	2' WING OUT - PRIVATE/CITY/COUNTY ENTRANCE
							3378.4825		25% IRREGULARITIES
						TOTAL	17004.19	19893.30	
						USE	17004.2	19893	

MOBILIZATION
TOTAL = 1 LUMP SUM

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3" THICK OR LESS)						
LOG MILE	LOG MILE	LOCATION	MILES	LENGTH FT	WIDTH FT	1 IN. COLDMILL SY
0.014	0.127	ROUTE 89	0.113	596.64	23	1524.7
0.127	0.136	ROUTE 89	0.009	48	VAR	172.8
0.136	0.142	ROUTE 89	0.006	31.68		
0.142	0.151	ROUTE 89	0.009	47.52	VAR	152.4
0.151	0.167	ROUTE 89	0.016	84.48	27	253.4
0.167	0.302	ROUTE 89	0.135	712.8	32	2534.4
0.302	0.348	ROUTE 89	0.046	242.88	23	620.7
					TOTAL	5258.40
					USE	5258

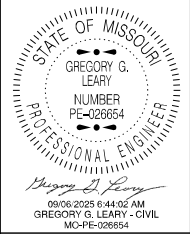
MODIFIED COLDMILLING (DEPTH TRANSITIONS)						
LOG MILE	LOG MILE	LOCATION	LENGTH FT	WIDTH FT	AVERAGE AREA SF	MODIFIED COLDMILLING SY
0.348	0.353	ROUTE 89	25	23	575	63.89
3.360		ROUTE 89	10	VAR.	1066	118.44
11.460		ROUTE 89	10	VAR.	1265	140.56
12.019	12.024	ROUTE 89	25	23	575	63.89
12.039	12.044	ROUTE 89	25	23	575	63.89
13.657		ROUTE 89	10	VAR.	2263	251.44
18.113	18.118	ROUTE 89	25	26	650	72.22
0.445		ROUTE 89 - LT	2	30	60	6.67
0.445		ROUTE 89 - RT	2	50	100	11.11
0.496		ROUTE 89 - RT	2	60	120	13.33
0.624		ROUTE 89 - LT	2	72	144	16.00
0.764		ROUTE 89 - LT	2	74	148	16.44
1.611		ROUTE 89 - LT	2	20	40	4.44
12.26		ROUTE 89 - RT	2	36	72	8.00
12.66		ROUTE 89 - RT	2	40	80	8.89
15.23		ROUTE 89 - RT	2	50	100	11.11
15.758		ROUTE 89 - RT	2	50	100	11.11
16.035		ROUTE 89 - RT	2	26	52	5.78
16.085		ROUTE 89 - LT	2	40	80	8.89
16.226		ROUTE 89 - RT	2	24	48	5.33
18.065		ROUTE 89 - RT	2	35	70	7.78
					TOTAL	909.21
					USE	909

PATCHING ROUTES FOR DAMAGED PAVEMENT					
LOG MILE	LOG MILE	LOCATION	REMOVAL OF DAMAGED PAVEMENT SY	REPLACEMENT OF DAMAGED PAVEMENT TON	REMARKS
0.012	18.118	ROUTE 89	250.0	41.4	
		TOTAL	250.0	41.4	
		USE	250	41.4	

GRAVEL (A) OR CRUSHED STONE (B)					
LOG MILE	LOG MILE	LOCATION	NET LENGTH MILES	GRAVEL OR CRUSHED STONE TONS	REMARKS
0.348	18.118	ROUTE 89	17.770	710.0	
			TOTAL	710.0	
			USE	710	

ADJUSTING MANHOLE			
LOG MILE	LOCATION	ADJUSTING MANHOLE EACH	REMARKS
0.046	ROUTE 89	1	TENNESSEE AVE
0.131	ROUTE 89	1	RAILROAD AVE
0.302	ROUTE 89	1	ROUTE K
	TOTAL	3	
	USE	3	

SUMMARY OF QUANTITIES
SHEET 1 OF 3



ROUTE	STATE
89	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE
JOB NO.
JCD0151
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)

PERMANENT PAVEMENT MARKING								
LOG MILE	LOG MILE	LOCATION	LENGTH FT	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)		THERMOPLASTIC PAVEMENT MARKING		REMARKS
				4" YELLOW LF	4" WHITE LF	24" WHITE LF	R/R MARKING EA	
0.012	0.134	ROUTE 89	644.16	1288.32		12	1	DOUBLE YELLOW
0.144	0.169	ROUTE 89	132.00	264.00		12	1	DOUBLE YELLOW
0.169	0.277	ROUTE 89	570.24	142.56				INT. YELLOW
0.277	0.342	ROUTE 89	343.20	686.40				DOUBLE YELLOW
0.348	1.361	ROUTE 89	5348.64	10697.28	10697.28			DOUBLE YELLOW
1.361	1.462	ROUTE 89	533.28	666.60	1066.56			SB PASSING ZONE
1.462	1.601	ROUTE 89	733.92	917.40	1467.84			NB PASSING ZONE
1.601	3.310	ROUTE 89	9023.52	18047.04	18047.04			DOUBLE YELLOW
3.310	3.422	ROUTE 89	591.36	739.20	1182.72			SB PASSING ZONE
3.422	3.875	ROUTE 89	2391.84	4783.68	4783.68			DOUBLE YELLOW
3.875	3.999	ROUTE 89	654.72	818.40	1309.44			SB PASSING ZONE
3.999	4.050	ROUTE 89	269.28	67.32	538.56			INT. YELLOW
4.050	4.160	ROUTE 89	580.80	726.00	1161.60			NB PASSING ZONE
4.160	5.701	ROUTE 89	8136.48	16272.96	16272.96			DOUBLE YELLOW
5.701	5.820	ROUTE 89	628.32	785.40	1256.64			SB PASSING ZONE
5.820	5.858	ROUTE 89	200.64	50.16	401.28			INT. YELLOW
5.858	5.960	ROUTE 89	538.56	673.20	1077.12			NB PASSING ZONE
5.960	6.290	ROUTE 89	1742.40	3484.80	3484.80			DOUBLE YELLOW
6.290	6.420	ROUTE 89	686.40	858.00	1372.80			SB PASSING ZONE
6.420	7.662	ROUTE 89	6557.76	13115.52	13115.52			DOUBLE YELLOW
7.662	7.768	ROUTE 89	559.68	699.60	1119.36			SB PASSING ZONE
7.768	7.923	ROUTE 89	818.40	204.60	1636.80			INT. YELLOW
7.923	8.018	ROUTE 89	501.60	627.00	1003.20			NB PASSING ZONE
8.018	8.496	ROUTE 89	2523.84	5047.68	5047.68			DOUBLE YELLOW
8.496	8.591	ROUTE 89	501.60	627.00	1003.20			SB PASSING ZONE
8.591	8.648	ROUTE 89	300.96	75.24	601.92			INT. YELLOW
8.648	8.731	ROUTE 89	438.24	547.80	876.48			NB PASSING ZONE
8.731	8.959	ROUTE 89	1203.84	2407.68	2407.68			DOUBLE YELLOW
8.959	9.096	ROUTE 89	723.36	904.20	1446.72			SB PASSING ZONE
9.096	9.153	ROUTE 89	300.96	75.24	601.92			INT. YELLOW
9.153	9.218	ROUTE 89	343.20	429.00	686.40			NB PASSING ZONE
9.218	9.353	ROUTE 89	712.80	1425.60	1425.60			DOUBLE YELLOW
9.353	9.493	ROUTE 89	739.20	924.00	1478.40			NB PASSING ZONE
9.493	9.548	ROUTE 89	290.40	580.80	580.80			DOUBLE YELLOW
9.548	9.598	ROUTE 89	264.00	330.00	528.00			SB PASSING ZONE
9.598	9.700	ROUTE 89	538.56	134.64	1077.12			INT. YELLOW
9.700	9.799	ROUTE 89	522.72	653.40	1045.44			NB PASSING ZONE
9.799	10.531	ROUTE 89	3864.96	7729.92	7729.92			DOUBLE YELLOW
10.531	10.660	ROUTE 89	681.12	851.40	1362.24			SB PASSING ZONE
10.660	10.777	ROUTE 89	617.76	772.20	1235.52			NB PASSING ZONE
10.777	10.881	ROUTE 89	549.12	686.40	1098.24			SB PASSING ZONE
10.881	10.928	ROUTE 89	248.16	62.04	496.32			INT. YELLOW
10.928	11.002	ROUTE 89	390.72	488.40	781.44			NB PASSING ZONE
11.002	11.195	ROUTE 89	1019.04	2038.08	2038.08			DOUBLE YELLOW
11.195	11.324	ROUTE 89	681.12	851.40	1362.24			SB PASSING ZONE
11.324	11.640	ROUTE 89	1668.48	3336.96	3336.96			DOUBLE YELLOW
11.640	11.758	ROUTE 89	623.04	778.80	1246.08			SB PASSING ZONE
11.758	11.849	ROUTE 89	480.48	600.60	960.96			NB PASSING ZONE
11.849	11.939	ROUTE 89	475.20	594.00	950.40			SB PASSING ZONE
11.939	11.989	ROUTE 89	264.00	66.00	528.00			INT. YELLOW
11.989	12.099	ROUTE 89	580.80	726.00	1161.60			NB PASSING ZONE
12.099	12.240	ROUTE 89	744.48	1488.96	1488.96			DOUBLE YELLOW
12.240	12.314	ROUTE 89	390.72	488.40	781.44			SB PASSING ZONE
12.314	12.375	ROUTE 89	322.08	80.52	644.16			INT. YELLOW
12.375	12.481	ROUTE 89	559.68	699.60	1119.36			NB PASSING ZONE
12.481	12.798	ROUTE 89	1673.76	3347.52	3347.52			DOUBLE YELLOW
12.798	12.918	ROUTE 89	633.60	792.00	1267.20			SB PASSING ZONE
12.918	13.062	ROUTE 89	760.32	190.08	1520.64			INT. YELLOW
13.062	13.184	ROUTE 89	644.16	805.20	1288.32			NB PASSING ZONE
13.184	13.884	ROUTE 89	3696.00	7392.00	7392.00			DOUBLE YELLOW
13.884	13.983	ROUTE 89	522.72	653.40	1045.44			SB PASSING ZONE
13.983	14.052	ROUTE 89	364.32	91.08	728.64			INT. YELLOW
14.052	14.167	ROUTE 89	607.20	759.00	1214.40			NB PASSING ZONE
14.167	16.451	ROUTE 89	12059.52	24119.04	24119.04			DOUBLE YELLOW
16.451	16.571	ROUTE 89	633.60	792.00	1267.20			SB PASSING ZONE
16.571	16.666	ROUTE 89	501.60	627.00	1003.20			NB PASSING ZONE
16.666	16.832	ROUTE 89	876.48	1752.96	1752.96			DOUBLE YELLOW
16.832	16.933	ROUTE 89	533.28	666.60	1066.56			SB PASSING ZONE
16.933	17.028	ROUTE 89	501.60	627.00	1003.20			NB PASSING ZONE
17.028	18.118	ROUTE 89	5755.20	11510.40	11510.40			DOUBLE YELLOW
								ALL PAVEMENT MARKING TO MATCH EXISTING. LOCATE BEFORE OVERLAY WORK.
			TOTAL	167242.68	187651.20	24	2	
			USE	167243	187651	24	2	

SUMMARY OF QUANTITIES
SHEET 2 OF 3

STATE OF MISSOURI

GREGORY G. LEARY

NUMBER
PE-026654

PROFESSIONAL ENGINEER



08/05/2025 3:39:35 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED
8/5/2025

ROUTE
89

STATE
MO

DISTRICT
CD

SHEET NO.
3

COUNTY
OSAGE

JOB NO.
JCD0151

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)

8/5/2025

89	MO
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CD	3
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OSAGE

JCD0151

1000

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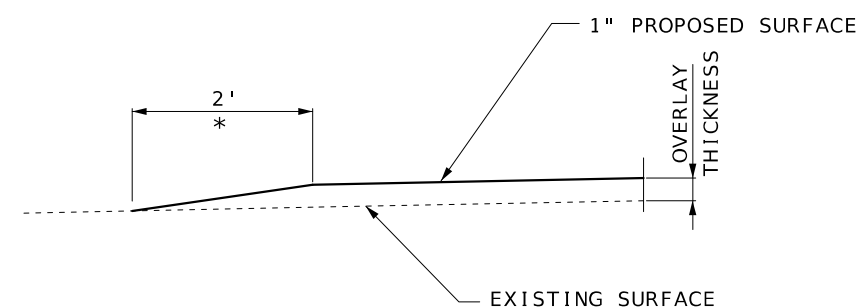
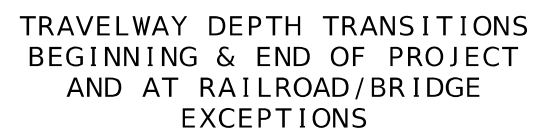
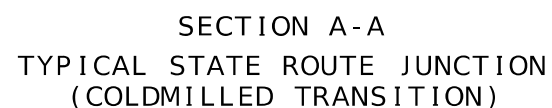
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EFFECTIVE: 07-01-2024

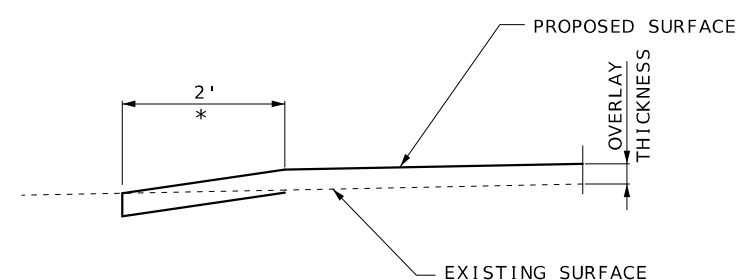
SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.		SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL SQ. FT.	RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.		ITEM NUMBER	TOTAL QTY	DESCRIPTION			
WARNING SIGNS								DESCRIPTION	GUIDE SIGNS								DESCRIPTION	ITEM NUMBER	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			1	ROAD WORK NEXT 18 MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)			
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16			26	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	4.5			53	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	1	8.75			58	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	13	19.5			58	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)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM			
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)	6161025	150	CHANNELIZER (TRIM LINE)			
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161030		TYPE III MOVEABLE BARRICADE			
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25							STOP	6161033		DIRECTION INDICATOR BARRICADE		
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI	6.93							YIELD	6161040		FLASHING ARROW PANEL		
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00							TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER		
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50							ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT		
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00							SPEED LIMIT XX	6161070		TUBULAR MARKER		
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00							NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM		
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00							NO LEFT TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED		
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00							NO TURNS					
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00							NO U-TURN (SYMBOL)	6161098A	2	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED		
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25							LEFT LANE MUST TURN LEFT					
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25							RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED		
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00							DO NOT PASS	6161099				
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00							PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM		
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00							KEEP RIGHT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS		
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00							KEEP LEFT (HORIZONTAL ARROW)	6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED		
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25							DO NOT ENTER					
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00							WRONG WAY			TEMPORARY TRAFFIC BARRIER		
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75							ONE WAY ARROW (LEFT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED		
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75							ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00							ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER		
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00							ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER		
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00							SIDEWALK CLOSED	6176000B		COMMISSION FURNISHED/RETAINED		
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED		
WO8-6	48X48	16.00						TRUCK CROSSING															
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R9-11R	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6208064A		TEMPORARY RAISED PAVEMENT MARKER		
WO8-7	36X36	9.00						LOOSE GRAVEL	R10-6	24X36	6.00							(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS		
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-2	48X30	10.00							STOP HERE ON RED (45° ARROW)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING		
WO8-9	48X48	16.00						LOW SHOULDER										ROAD CLOSED					
WO8-11	48X48	16.00	36	576			36	UNEVEN LANES										ROAD CLOSED XX MILES AHEAD					
WO8-12	48X48	16.00	18	288			35	NO CENTER LINE	R11-3a	60X30	12.50							LOCAL TRAFFIC ONLY					
WO8-15	48X48	16.00						GROOVED PAVEMENT	R11-4	60X30	12.50							ROAD CLOSED TO THRU TRAFFIC					
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-3A	60X48	20.00							FINE SIGN					
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-3X	56X12	4.67							SPEEDING/PASSING (PLATE)					
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	MISCELLANEOUS SIGNS														
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	CONST-5	48X36	12.00							POINT OF PRESENCE					
W10-1	42RND.	9.62						RAILROAD CROSSING	CONST-5	96X48	32.00							POINT OF PRESENCE					
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)	CONST-8	48X36	12.00	2	24			59		WORK ZONE NO PHONE ZONE					
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	18	288			2	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	20	320			7	ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS			1862											
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	18	288			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				WET PAINT (ARROW PIVOTS)															

SUMMARY OF QUANTITIES
SHEET 3 OF 3



SECTION B-B

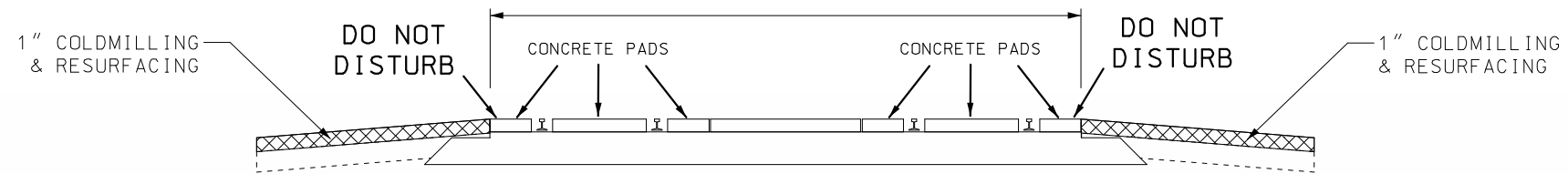
TYPICAL GRAVEL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



SECTION B-B

TYPICAL CONCRETE/BITUMINOUS ENTRANCE
MODIFIED COLDMILL DETAIL
(PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE





COLDMILLING UP TO R&R
CONCRETE PAD WITHOUT
DISTURBING IT.



172.8 SY COLDMILLING (1" DEPTH)
9.54 TONS BIT. PAVEMENT MIX (PG 64-22)
17.3 GAL TACK COAT

152.4 SY COLDMILLING (1" DEPTH)
8.4 TONS BIT. PAVEMENT MIX (PG 64-22)
15.2 GAL TACK COAT

NOT TO SCALE

EXCEPTION - CHAMOIS RAILROAD CROSSING
L.M. 0.136 - L.M. 0.142

SPECIAL SHEET
2 OF 3

DATE PREPARED
8/5/2025

ROUTE 89	STATE MO
DISTRICT CD	SHEET NO. 5

COUNTY
OSAGE

JOB NO.
JCD0151

CONTRACT ID.

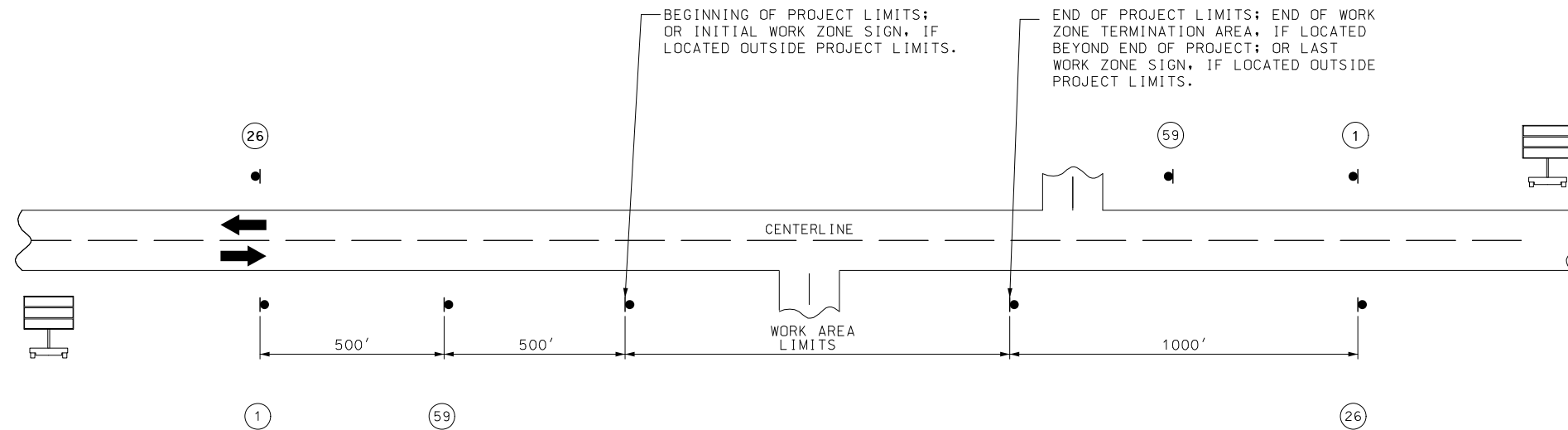
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



STATE OF MISSOURI
 GREGORY G. LEARY
 NUMBER
 PE-026654
 PROFESSIONAL ENGINEER

Gregory G. Leary
 08/06/2025 3:39:49 PM
 GREGORY G. LEARY - CIVIL
 MO-PE-026654

ROUTE 89	STATE MO
DISTRICT CD	SHEET NO. 7

JOB NO.
JCD0151

CONTRACT ID.

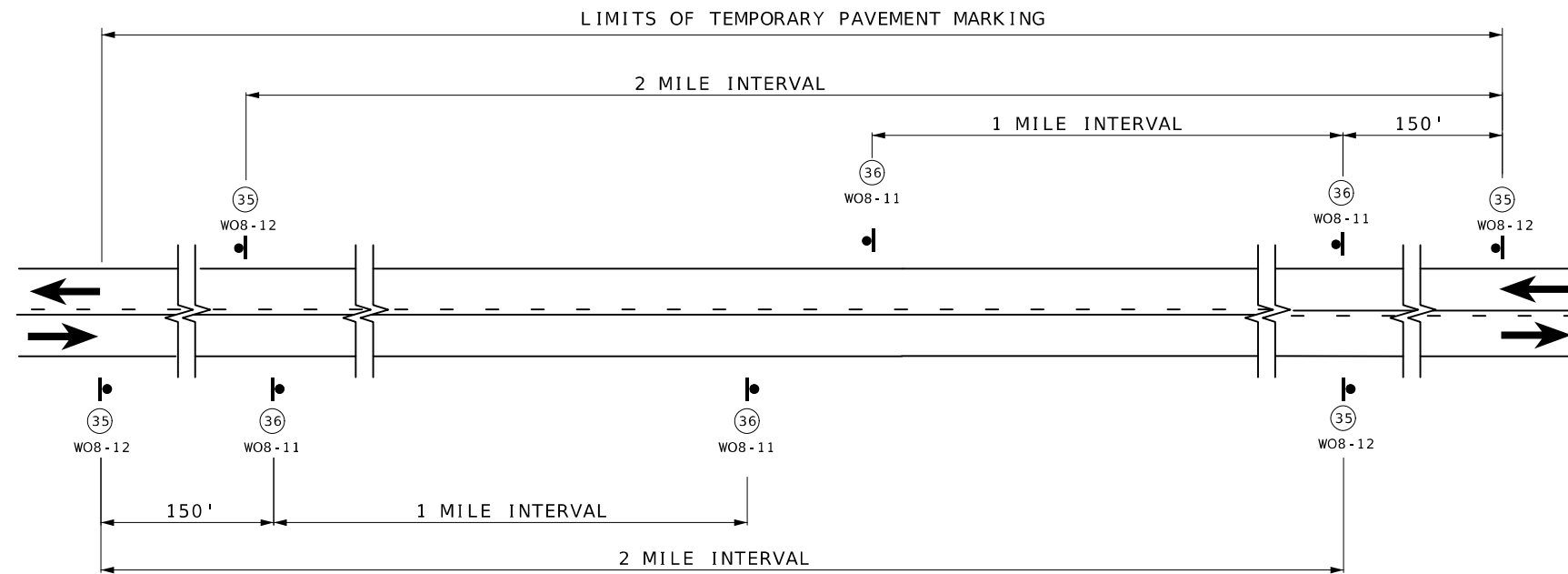
PROJECT NO.

BRIDGE NO.

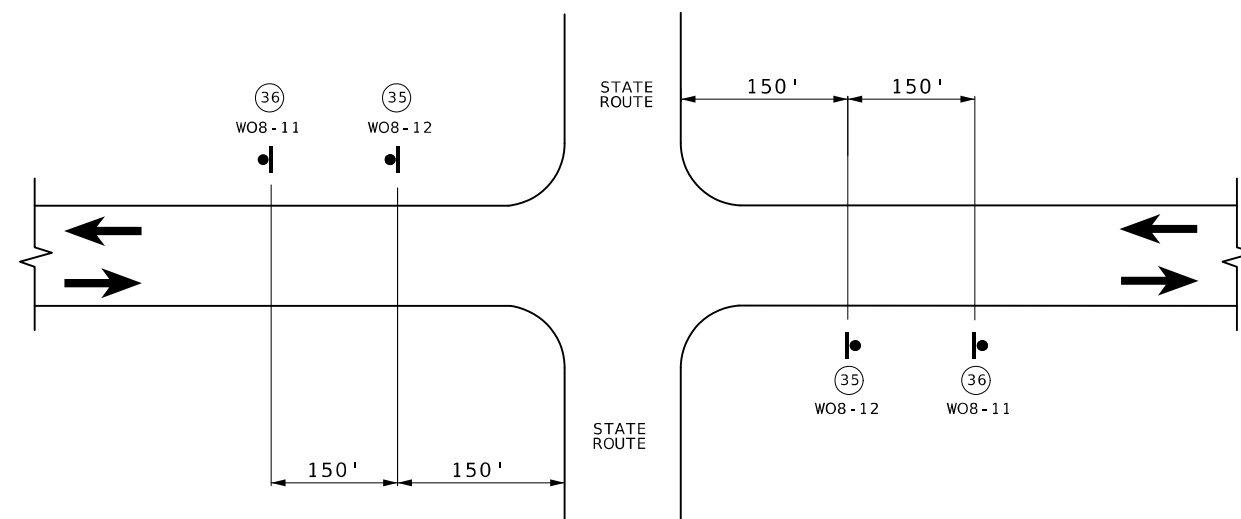
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COMMISSION

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

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



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.

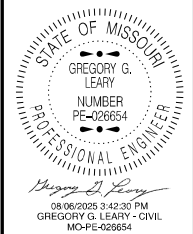
SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

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

SHEET 4 OF 5



DATE PREPARED
8/5/2025

ROUTE 89	STATE MO
DISTRICT CD	SHEET NO. 10

COUNTY
OSAGE

JOB NO.
JCD0151

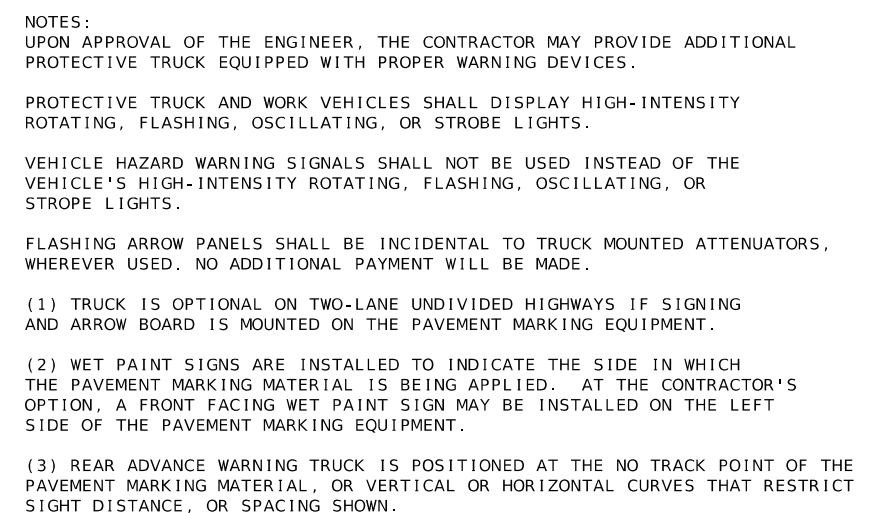
CONTRACT ID.

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)

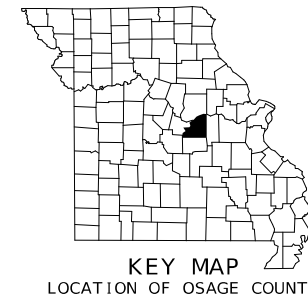


A.A.D.T. - 2024 = 321
T = 10%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

NO NEW RIGHT OF WAY
REQUIRED

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



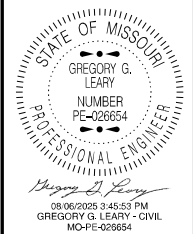
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	— FO —	— FO —
OVERHEAD CABLE TV	— OTV —	— OTV —
UNDERGROUND CABLE TV	— UTV —	— UTV —
OVERHEAD TELEPHONE	— OT —	— OT —
UNDERGROUND 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	DI 	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN 	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED 	
FENCE		
CHAIN LINK	— V —	— V —
WOVEN WIRE	— X —	— 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.

DESCRIPTION

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)---	2
QUANTITIES (QU) (2 SHEETS)-----	3
SPECIAL SHEETS (SS) -----	4-5
TRAFFIC CONTROL SHEETS (TC)-----	6-10



DATE PREPARED
8/5/2025

ROUTE	STATE
89 SPUR	MO

DISTRICT	SHEET NO.
CD	1

COUNTY
OSAGE

JOB NO.
JCD0327

CONTRACT ID.

PROJECT NO. _____

BRIDGE NO.

[illegible]

LENGTH OF PROJECT - 89 SPUR

BEGINNING OF PROJECT	L.M.	0.002
END OF PROJECT	L.M.	1.592
APPARENT LENGTH		8,395.2 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	8,395.2	FEET
STATE LENGTH	1,590	MILES

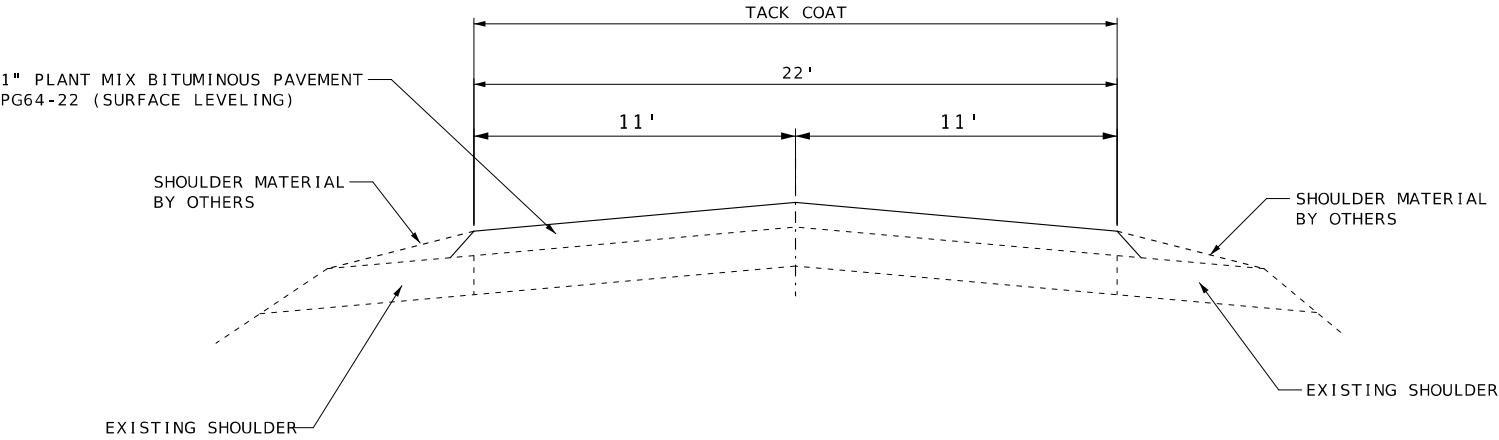
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



08/05/2025 3:46:56 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

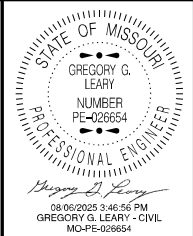


ROUTE 89 SPUR
TYPICAL SECTION
LOG MILE 0.002 TO LOG MILE 1.592

NOTE:
SURFACE PLACEMENT SHALL BE ONE PASS PER LANE
NO S.E. CORRECTION.

SEE MODOT STD PLAN 401 FOR SAFETY EDGE DETAIL.

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/YD ³
TACK COAT (EXIST. ASPH.)	.08 GAL/YD ²



DATE PREPARED 8/5/2025	
ROUTE 89 SPUR	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY OSAGE	
JOB NO. JCD0327	
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)

DATE PREPARED 8/5/2025	
ROUTE 89 SPUR	STATE MO
DISTRICT CD	SHEET NO. 3

JCD0327

BRIDGE NO.					

[illegible]

OPTION

[illegible]

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DATE					
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CAPITOL
65102SPORTA
WEST CA
TY MO

TRANSON

THE AMERICAN SOCIETY OF HUMAN RESOURCES



2	✓

11

11

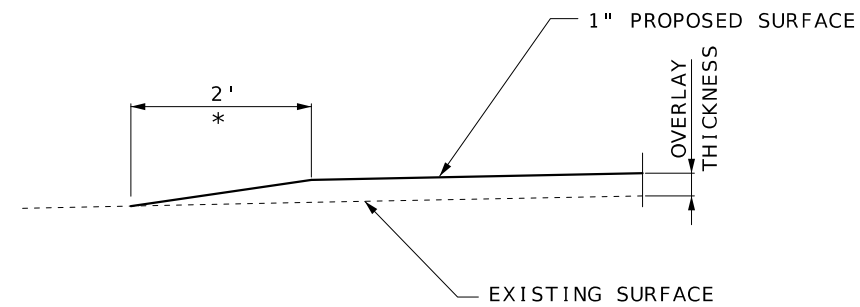
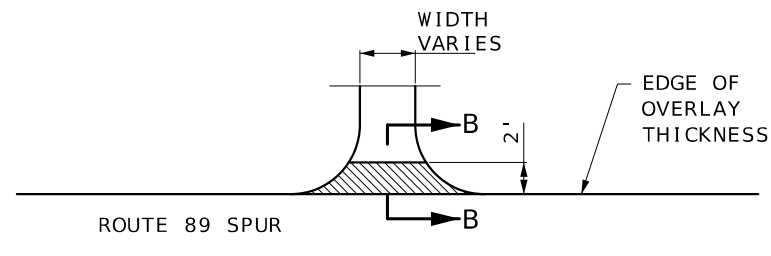
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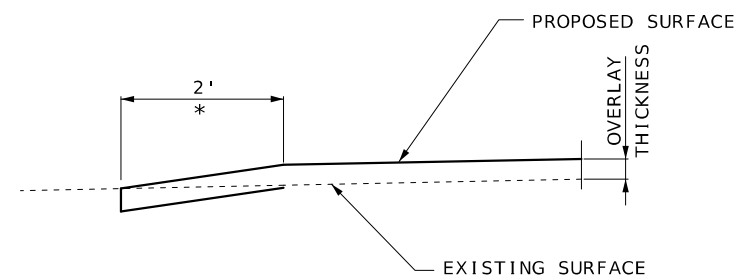
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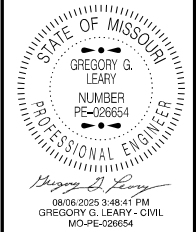
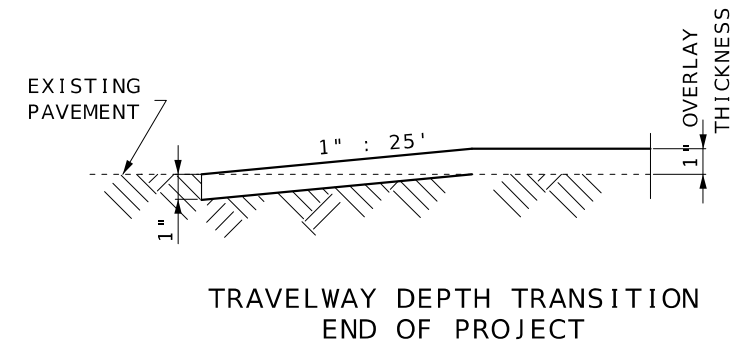
SECTION B-B

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



SECTION B-B

TYPICAL CONCRETE/BITUMINOUS ENTRANCE
MODIFIED COLDMILL DETAIL
(PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



DATE PREPARED

ROUTE	STATE
89 SPUR	MO

DISTRICT	SHEET NO.
CD	4

COUNTY

OSAGE

JOB NO.

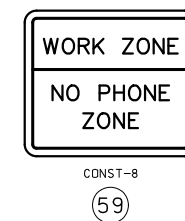
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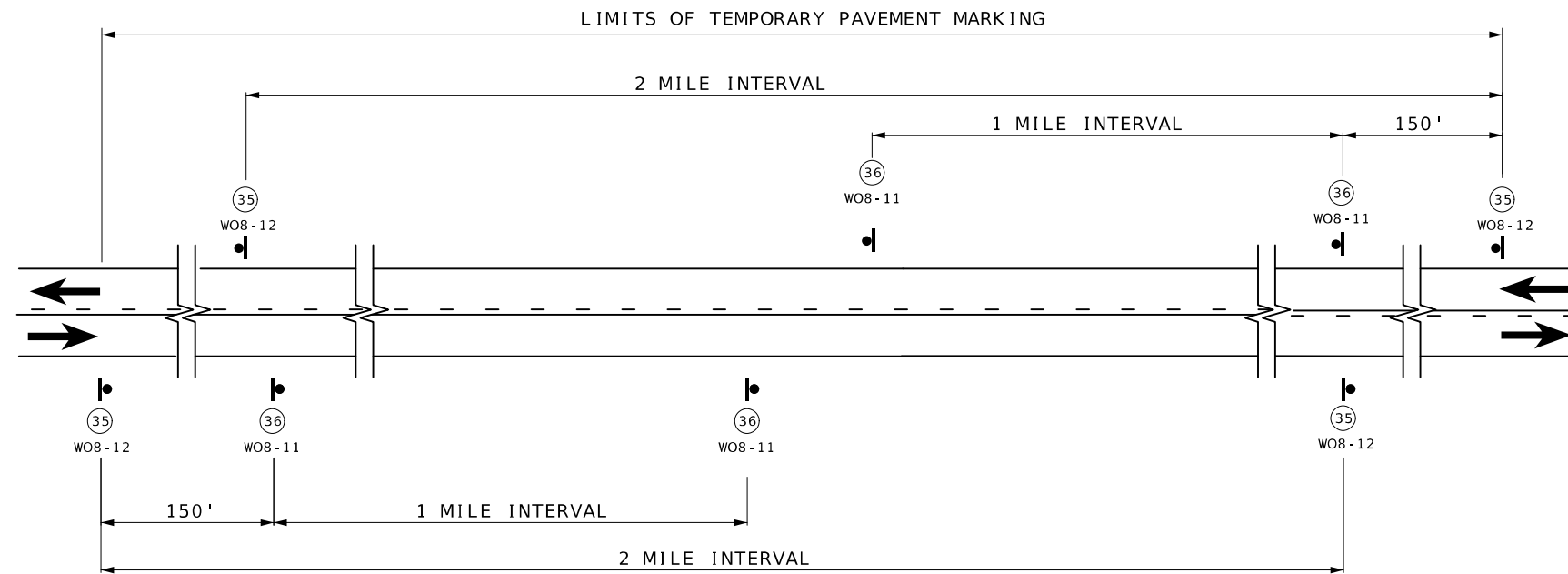
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BRIDGE NO.

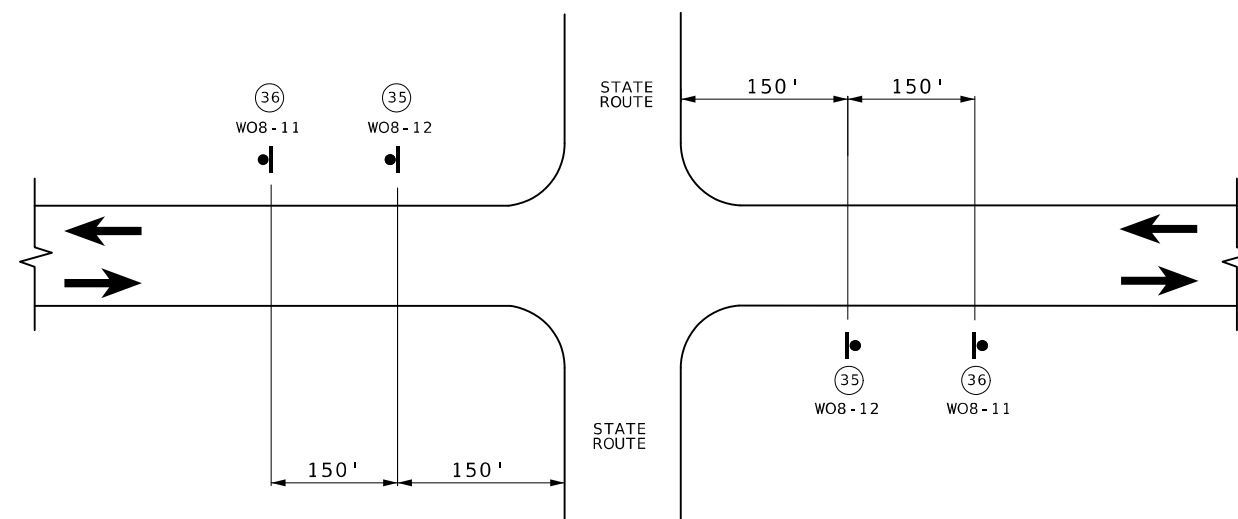
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COMMISSION



DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE



NOTES :

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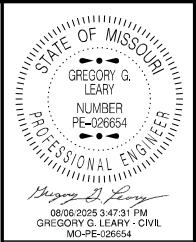
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NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 5

SHEET 4 OF 5



DATE PREPARED

8/5/2025

ROUTE	STATE
89 SPUR	MO

DISTRICT	SHEET NO.
CD	9

COUNTY

OSAGE

JOB NO.

JCD0327

CONTRACT ID.

Abstract

PROJECT NO.

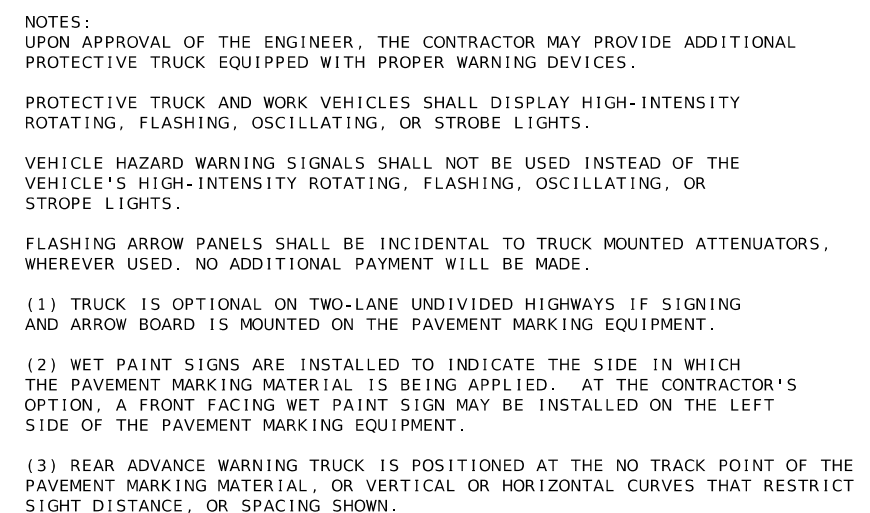
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



MISSOURI HIGHWAYS AUTHORITY
COMMISSION