

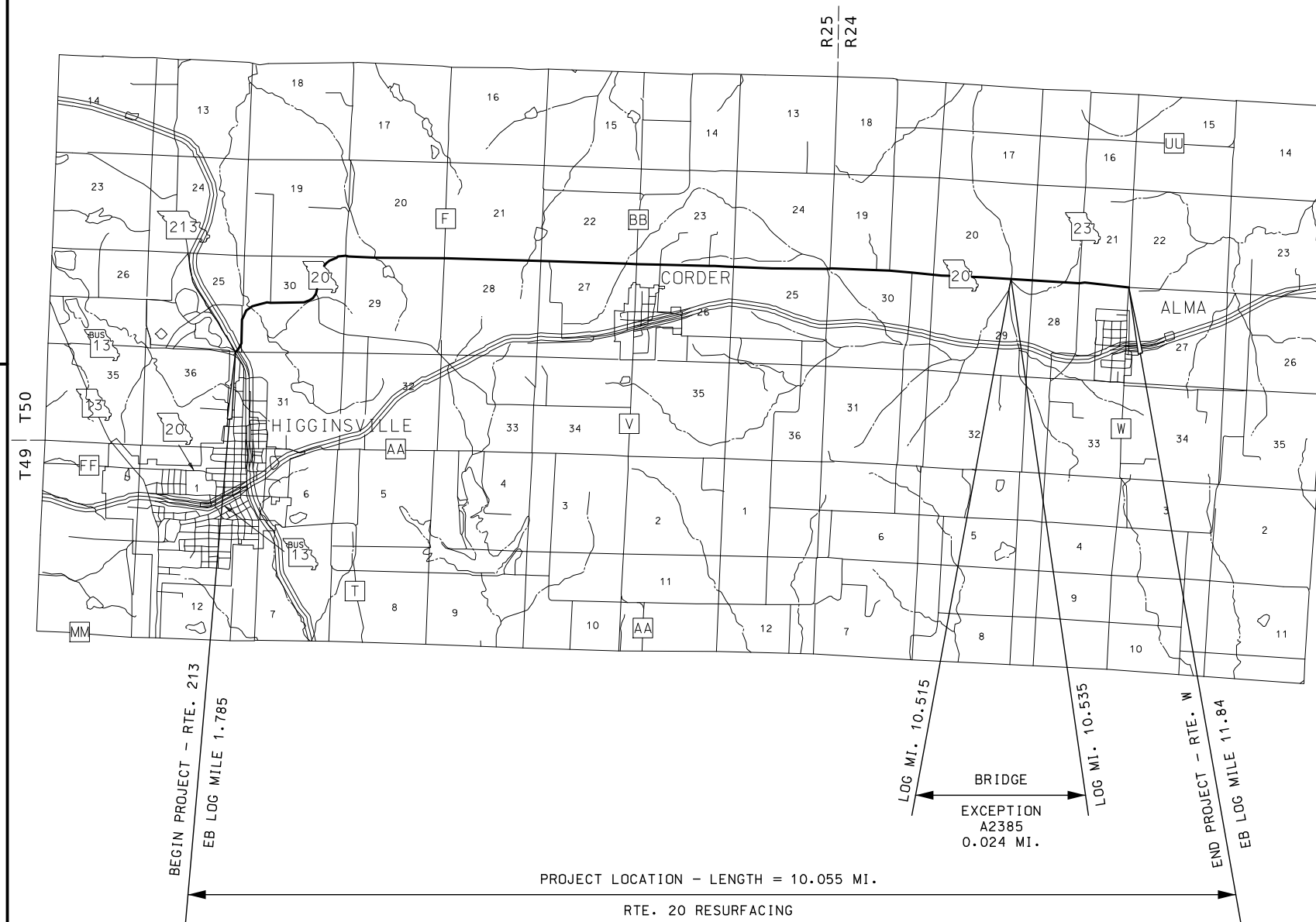
T = 9%
V = 55 M.P.H
D = 50%

NO RIGHT OF WAY
WILL BE ACQUIRED
FOR THIS PROJECT

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

EXISTING		NEW
- F - O -		- F - O -
- T -		- T -
- □ -		- ■ -
- P -		- P -
- G -		- G -
- W -		- W -
SAN		
HYD		
VV		
WM		
GL		
SIGN		
PED		
	- V -	
	- X -	
	BK	

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



NOT TO SCALE

TITLE SHEET -----	1
TYPICAL SECTIONS (TS) -----	2
QUANTITIES (QU) (4 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4
TRAFFIC CONTROL SHEETS (TC)-----	5-8

TITLE SHEET -----	1
TYPICAL SECTIONS (TS) -----	2
QUANTITIES (QU) (4 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4
TRAFFIC CONTROL SHEETS (TC)-----	5-8



DATE PREPARED
1/26/2024

ROUTE 20	STATE MO
DISTRICT KC	SHEET NO. 01

COUNTY
LAFAYETTE

JOB NO.
JKR0153

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)

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES

BEGINNING OF PROJECT	EB LOG MILE 1.785
END OF PROJECT	EB LOG MILE 11.841
APPARENT LENGTH	10.056 MILES

EQUATIONS AND EXCEPTIONS:

BR A2385	0.024 MILES
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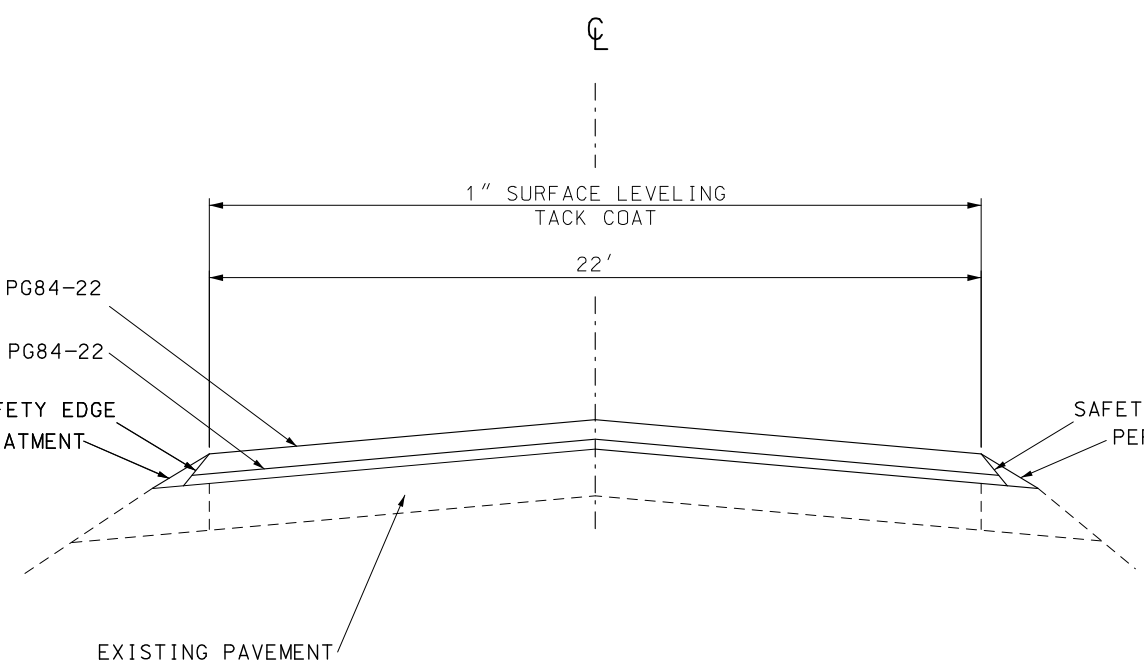
TOTAL CORRECTIONS	126.72 FEET
NET LENGTH OF PROJECT	52,968.96 FEET
STATE LENGTH	10.032 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES



1" BITUMINOUS PAVEMENT MIXTURE PG84-22
(SURFACE LEVELING)
0.5" BITUMINOUS PAVEMENT MIXTURE PG84-22
(SCRATCH COURSE)

SAFETY EDGE
PERMANENT AGGREGATE EDGE TREATMENT



MO 20 TYPICAL SECTION
EB LOG MILE 1.785 TO LOG MILE 11.84

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.985 TON/YD ³
TACK COAT	0.08 GAL/YD ²
PERMANENT AGGREGATE EDGE TREATMENT	1.88 TON/CY

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

FINAL STRIPING BY OTHERS.

FOR INFORMATIONAL PURPOSES ONLY.

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER
PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White
01/29/2024 3:18:24 PM
JACLYN A. WHITE - CIVIL
MO-PE-2003001116

DATE PREPARED 1/29/2024	
ROUTE 20	STATE MO
DISTRICT KC	SHEET NO. 02
COUNTY LAFAYETTE	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



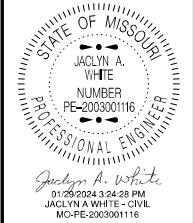
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT TREATMENT- MO 20									
LOG MILE START	LOG MILE END	LENGTH FT	LANE WIDTH FT	AREA SF	AREA SY	TACK GAL	VOL CY	SL - PG64 - 22 TONS	NOTES
1.79	4.62	14,942.40	22.00	328,732.80	36,525.87	2,922.07	1,014.61	2,014.00	
4.62	6.64	10,665.60	22.00	234,643.20	26,071.47	2,085.72	724.21	1,437.56	
6.64	10.52	20,486.40	22.00	450,700.80	50,077.87	4,006.23	1,391.05	2,761.23	BRIDGE A2385 BEGIN
10.54	11.84	6,864.00	22.00	151,008.00	16,778.67	1,342.29	466.07	925.15	BRIDGE A2385 END
SUBTOTAL						10,356.31		7,137.94	

MOBILIZATION
1 LUMP SUM

PAVEMENT TREATMEANT - INTERSECTIONS/ENTRANCES									
LOG MILE START	LOG MILE END	LENGTH FT	AVERAGE WIDTH FT	AREA SF	MODIFIED COLDMILLING SY	TACK GAL	VOL CY	SL - PG64 - 22 TONS	
1.78	1.8	105.60	22	11,000	1,222.22	97.78	34.0	67.5	MO 213 AND BUS 13 AND PARK ENTERANCE INTERSECTION
4.62	4.62	0.00	22	3,566	396.22	31.70	11.0	43.7	F INTERSECTION
6.62	6.62	0.00	22	6,326	702.89	56.23	19.5	77.4	V INTERSECTION
6.62	6.62	0.00	22	4,800	533.33	42.67	14.8	58.8	BB INTERSECTION
11.75	11.75	0.00	22	6,350	705.56	56.44	19.6	77.8	W INTERSECTION
7.81	7.85	211.20	4	468	52.00	0.00	0.00	0.00	DEPTH TRANSITIONS FOR CONC ENTRANCE
7.88	7.92	211.20	4	468	52.00	0.00	0.00	0.00	DEPTH TRANSITIONS FOR CONC ENTRANCE
				SUBTOTAL	3664.22	284.82	98.9	325.2	
								3,568.97	0.5" SCRATCH COURSE
								356.90	RUTTING AND IRREGULARITIES 10%
								214.14	SAFETY EDGE 2%
TOTAL					3,664	21,282		11,603.2	TACK COAT QUANTITY DOUBLED FOR SCRATCH COURSE

GUARDRAIL						
LOG MILE START	LOG MILE END	BRIDGE ANCHOR AND TRANSITION (EA)	CRASH WORTHY END TERMINAL (EA)	GUARDRAIL LENGTH (FT)	SHAPING SLOPES CLASS 3	DESCRIPTION
10.49	10.52	1.00	1.00	2.84	1.23	BR A2385 SW
10.54	10.57	1.00	1.00	9.72	2.09	BR A2385 NE
10.54	10.57	1.00	1.00	10.76	2.22	BR A2385 SE
		TOTAL	3.00	3.00	300.00	6.00



DATE PREPARED	
1/29/2024	
ROUTE	STATE
20	MO
DISTRICT	SHEET NO.
KC	03
COUNTY	
LAFAYETTE	
JOB NO.	
JKR0153	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

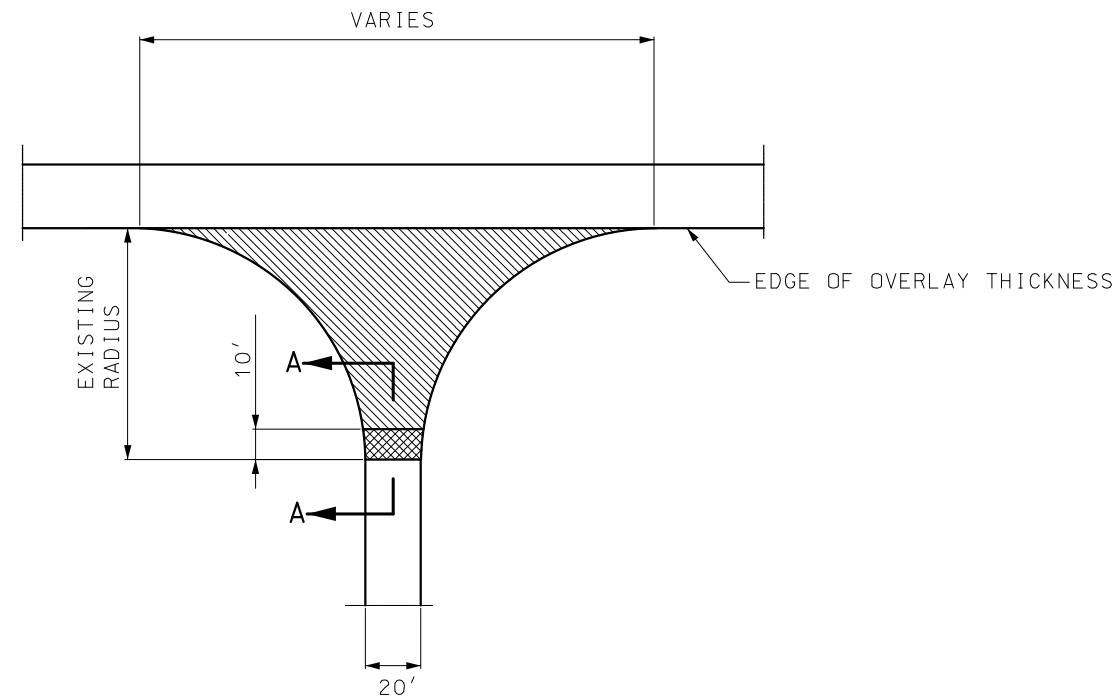
DESCRIPTION						

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

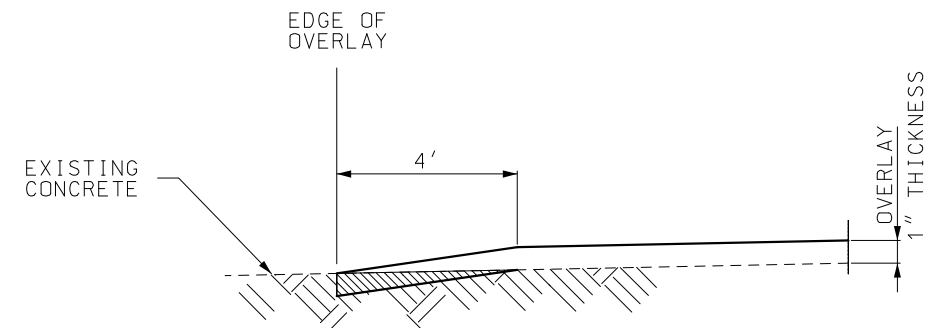
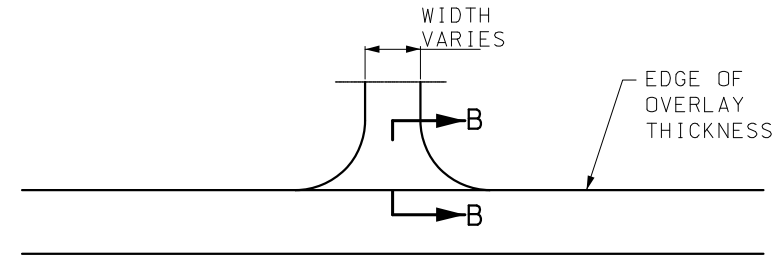
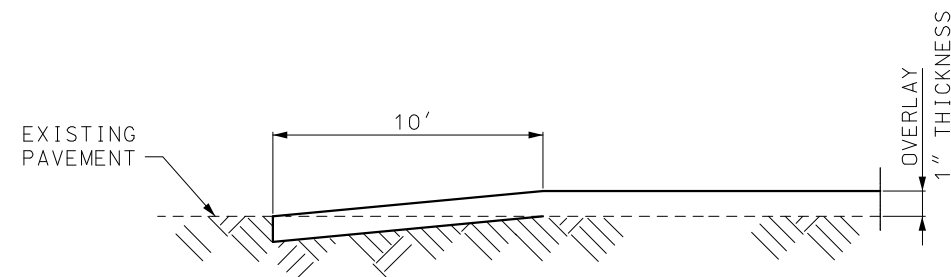
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

PERMANENT AGGREGATE EDGE TREATMENT							
LOG MILE START	LOG MILE END	LENGTH FT	WIDTH FT	AREA SY	VOL CY	TYPE 1 OR TYPE 5 BASE ROCK TONS	NOTES
1.79	10.52	92,188.80	2	20,486.40	1,707.20	3,209.54	RIGHT AND LEFT
10.54	11.84	13,728.00	2	3,050.67	254.22	477.93	RIGHT AND LEFT
				SUBTOTAL 2		3,687.47	
				TOTAL (SUBTOTAL 1 + SUBTOTAL 2)		4,165.50	

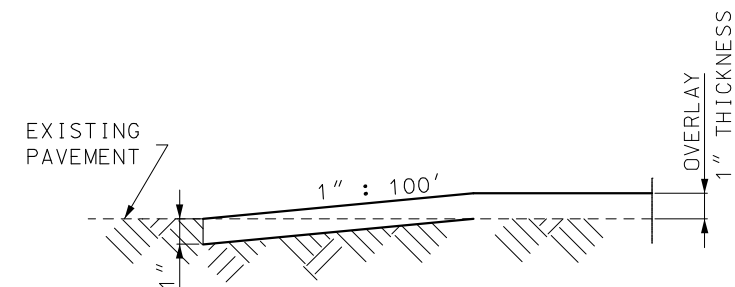
SUMMARY OF QUANTITIES
SHEET 3 OF 4



SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(COLDMILLED TRANSITION)
RTE W, RTE 23, RTE V/BB, RTE F.
GRAVEL ENTRANCES SUCH AS RESIDENTAL,
FIELD, AND COMMERCIAL.



SECTION B-B
TYPICAL CONCRETE ENTRANCE



TRAVELWAY DEPTH TRANSITIONS
BEGINNING AND END OF PROJECT
AND EXCEPTIONS



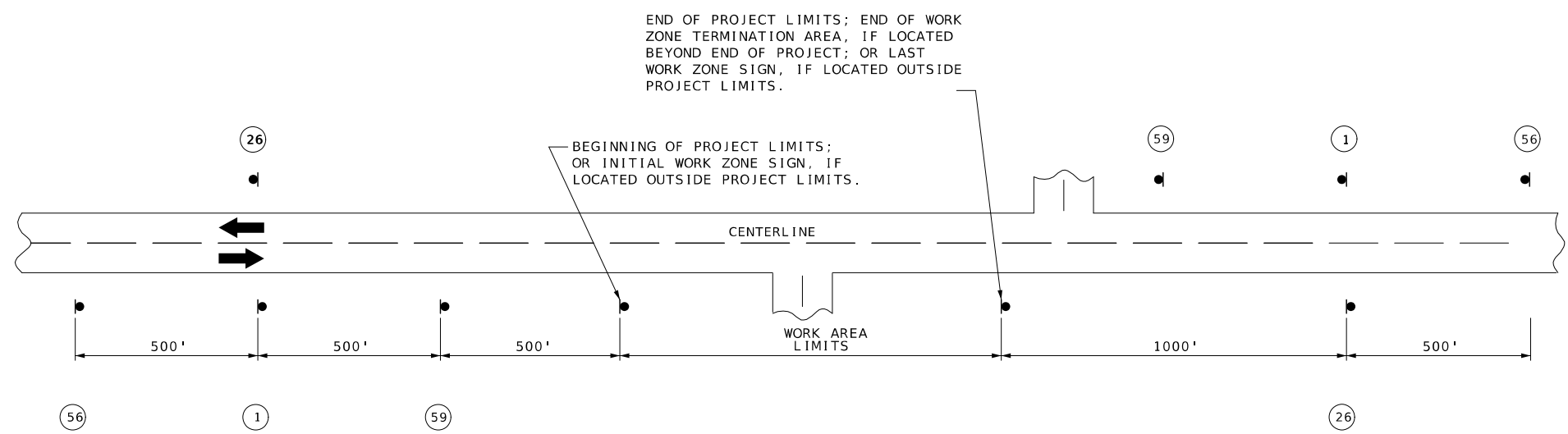
DATE PREPARED 1/26/2024	
ROUTE 20	STATE MO
DISTRICT KC	SHEET NO. 04
COUNTY LAFAYETTE	
JOB NO. JKR0153	
CONTRACT ID.	

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)



NOTES:

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

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

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01/26/2024 3:27:50 PM

JACLYN A. WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED

1/26/2024

ROUTE

20

STATE

MO

DISTRICT

KC

SHEET NO.

05

COUNTY

LAFAYETTE

JOB NO.

JKR0153

CONTRACT ID.

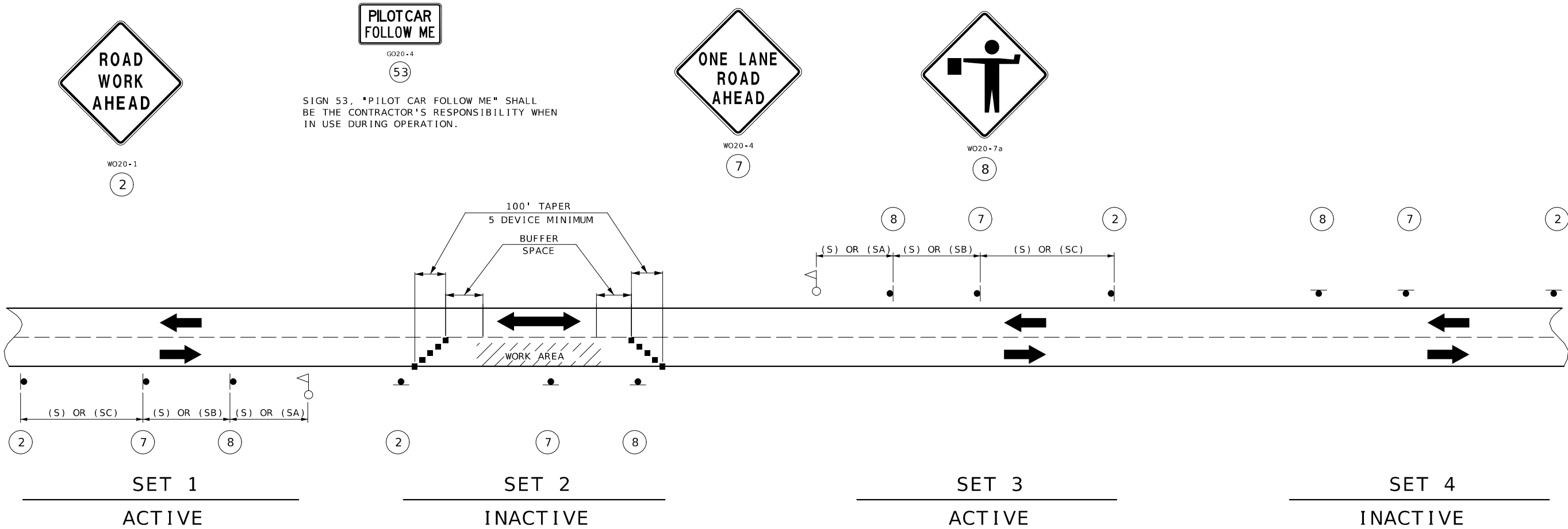
PROJECT NO.

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

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

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

- - CHANNELIZERS
- - FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

SPEED	SIGN SPACING (FT.)	
	(1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA) -1000 (SB) -1500 (SC) -2640

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

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.

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

01/29/2024 3:23:09 PM

JACLYN A WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED

1/29/2024

ROUTE

20

STATE

MO

DISTRICT

KC

SHEET NO.

06

COUNTY

LAFAYETTE

JOB NO.

JKR0153

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)



DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

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

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

■ - CHANNELIZERS (AS SPECIFIED)

 - FLAGGER

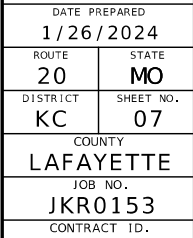


SHALL BE USED ON ALL STATE
ROUTES AND MAY BE USED ON
ANY NON-STATE ROUTES, AS
DETERMINED BY THE ENGINEER.

SHALL ONLY BE USED
AT PRIVATE AND
COMMERCIAL ENTRANCES.
SEE SPECIAL PROVISIONS.

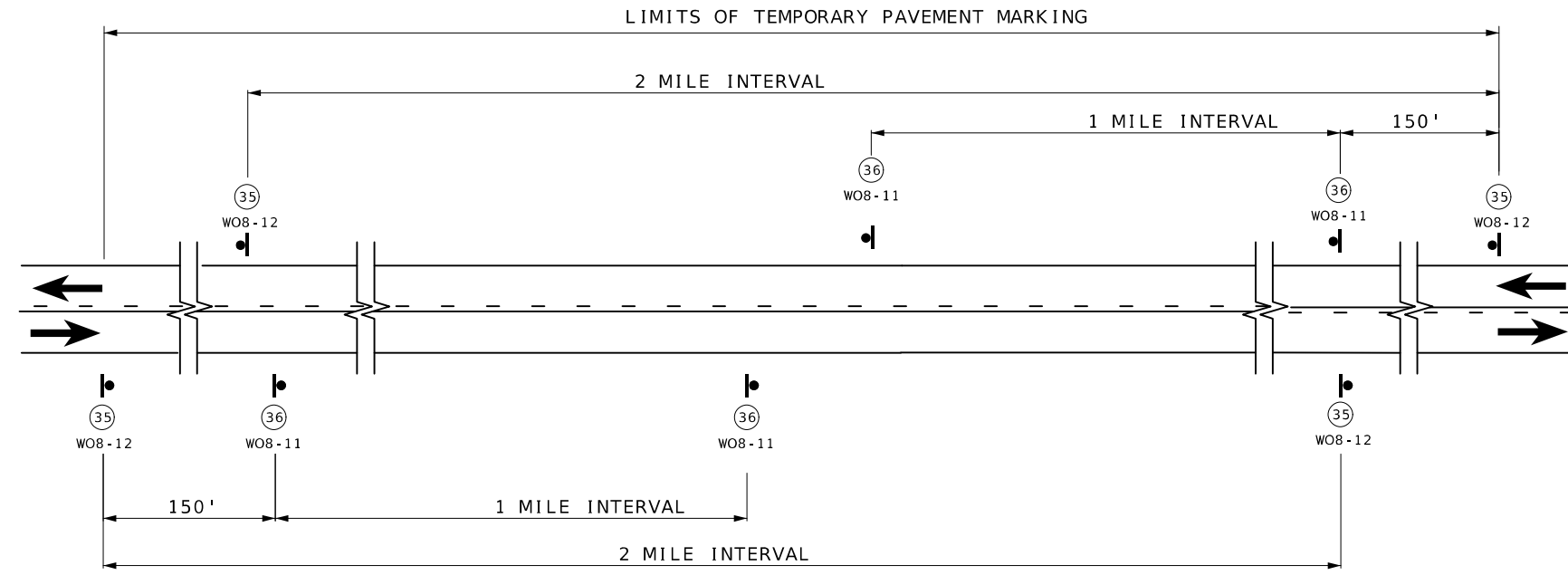
* THE SMALLER 18" X 12" SIGN
58 IS USED ON ALL OTHER
NON-STATE ROUTES (CITY STREETS,
COUNTY ROADS, ETC.).

TRAFFIC CONTROL
SHEET 3 OF 4

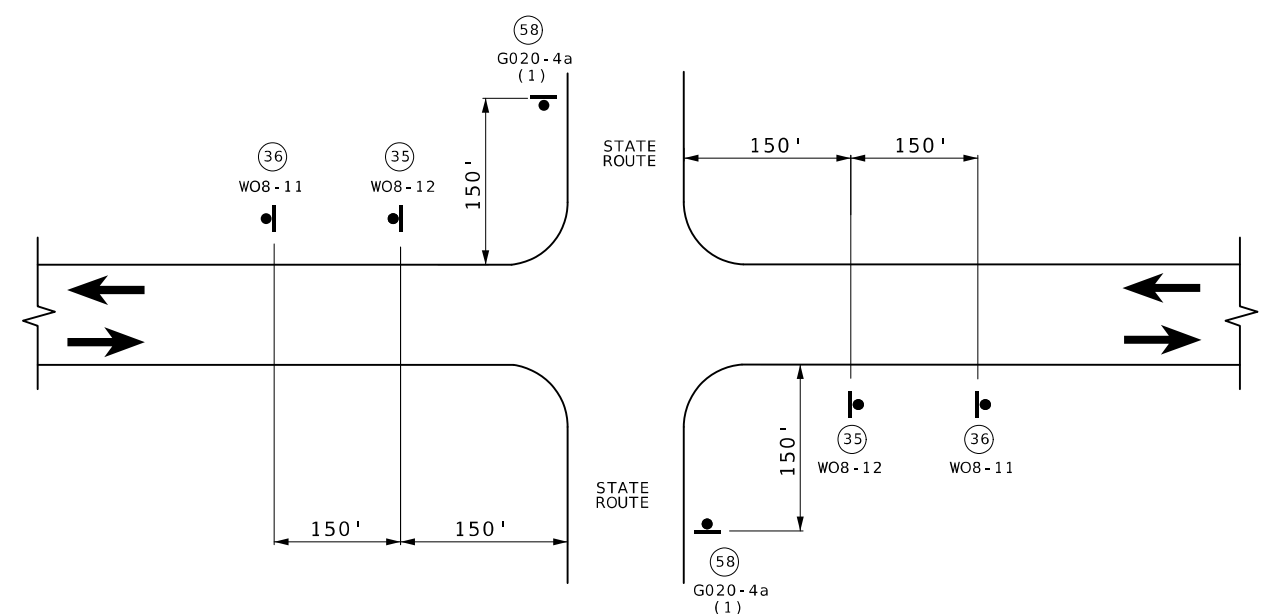


PROJECT NO.
BRIDGE NO.

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COMMISSION

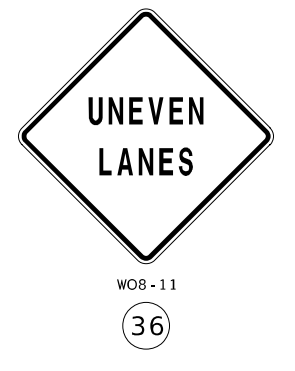


SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

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



NOTES:

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 4

STATE OF MISSOURI

JACLYN A. WHITE

NUMBER

PE-2003001116

PROFESSIONAL ENGINEER

Jaclyn A. White

01/26/2024 3:46:13 PM

JACLYN A. WHITE - CIVIL

MO-PE-2003001116

DATE PREPARED

1/26/2024

ROUTE

20

STATE

MO

DISTRICT

KC

SHEET NO.

08

COUNTY

LAFAYETTE

JOB NO.

JKR0153

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT