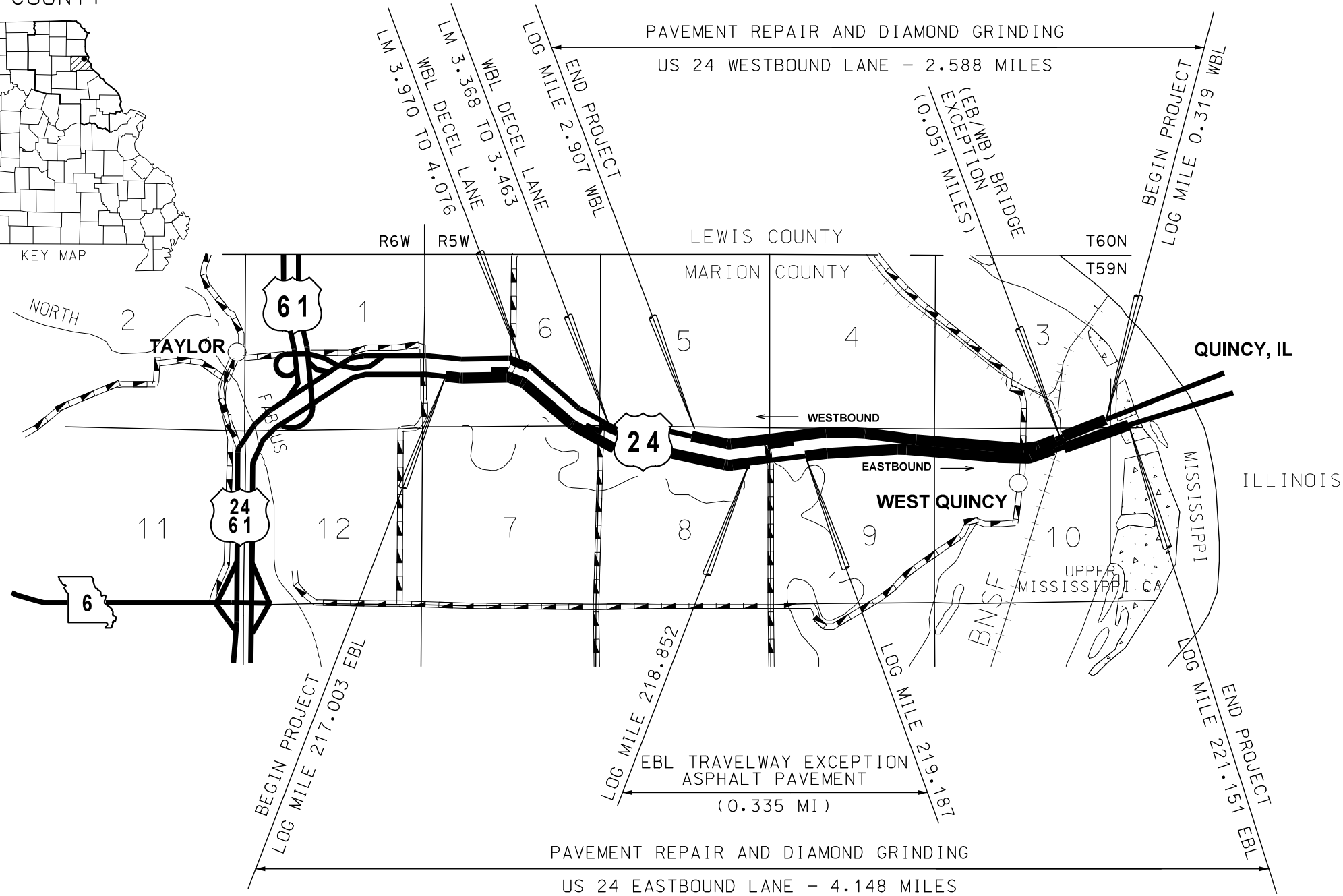


DESIGN DESIGNATION
A.A.D.T. - 2022 = 20,051
A.A.D.T. - 2032 = 21,491
DIRECTIONAL DISTRIBUTION (E/W) = 50.3% / 49.7%
T = 12.38%
V = 40,45, & 65 M.P.H.
PEAK HOUR = 8.69%
GROWTH RATE = 0.70%
FUNCTIONAL CLASSIFICATION
PRINCIPAL ARTERIAL FREEWAY

NORTHEAST DISTRICT
MARION COUNTY



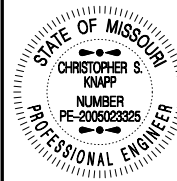
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY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



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY MARION COUNTY US 24

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (2 SHEETS)---	2
QUANTITIES (QU) (3 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4
TRAFFIC CONTROL SHEETS (TC)-----	5-10
PAVEMENT MARKING SHEETS (PM)-----	11



DATE PREPARED	8/2/2021
ROUTE	24
STATE	MO
DISTRICT	NE
SHEET NO.	1
COUNTY	MARION
JOB NO.	J2P3281
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

LENGTH OF PROJECT

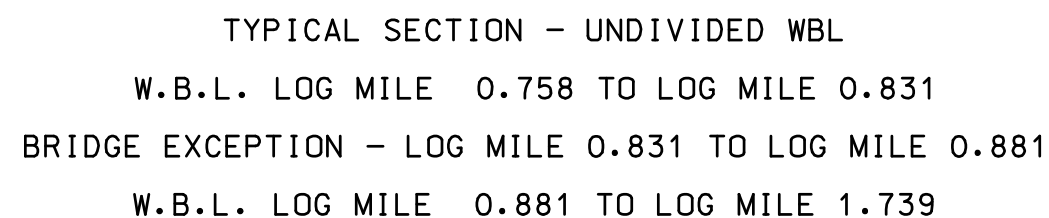
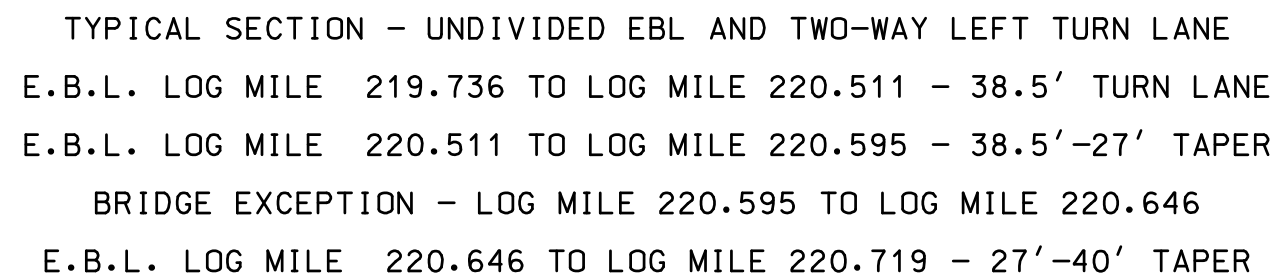
EASTBOUND			
BEGINNING OF PROJECT	LOG MILE	217.003	
END OF PROJECT	LOG MILE	221.151	
APPARENT LENGTH		4.148	MILES
EXCEPTIONS:			
LM 218.852 TO LM 219.187		0.335	MILES
LM 220.595 TO LM 220.646		0.051	MILES
NET LENGTH EBL		3.762	MILES
WESTBOUND			
BEGINNING OF PROJECT	LOG MILE	0.319	
END OF PROJECT	LOG MILE	2.907	
APPARENT LENGTH		2.588	MILES
EXCEPTIONS:			
LM 0.832 TO LM 0.883		0.051	MILES
NET LENGTH WBL		2.537	MILES

EASTBOUND AND WESTBOUND			
NET LENGTH OF PROJECT		6.299	MILES
STATE LENGTH		6.299	MILES



TITLE SHEET

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

TYPICAL SECTION
SHEET 2 OF 2

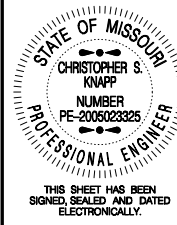
CLASS A PARTIAL DEPTH PAVEMENT REPAIR						
LOCATION	LENGTH	WIDTH	THICKNESS	FURNISHING AND PLACING CONCRETE MATERIAL QUANTITY	REMOVAL	DESCRIPTION
	FT	FT	INCHES	C.Y.	S.Y.	
VARIOUS	4	5	4.5	65.3	523.0	235 REPAIRS - VARIOUS LOCATIONS IN THE EAST AND WEST BOUND LANES
			TOTAL	65.3	523.0	
NOTE: SIZE AND QUANTITY OF REPAIRS MAY VARY, ACTUAL LOCATIONS AND SIZE TO BE DETERMINED BY THE ENGINEER.						

FULL DEPTH PAVEMENT REPAIR										
LOCATION	PANEL LENGTH	PANEL WIDTH	FURNISHING AND PLACING CONCRETE QUANTITY	SUBGRADE COMPACTION QUANTITY	TYPE 1 OR 5 AGGREGATE BASE QUANTITY	FULL DEPTH SAW CUT QUANTITY	DOWEL BAR QUANTITY	DOWEL BAR WITH BASKETS QUANTITY	TIE BAR QUANTITY	DESCRIPTION
	FT	FT	SQ.YD.	SQ.YD.	SQ.YD.	L.F.	EACH	EACH	EACH	
VARIOUS	6	12	205.5	21.0	21.0	702.0	280	20	10	22 REPAIRS AT VARIOUS LOCATIONS IN THE EAST AND WEST BOUND LANES
		TOTAL	205.5	21.0	21.0	702.0	280	20	10	
NOTE: SUBGRADE COMPACTION AND AGGREGATE BASE ESTIMATED AT 10% OF FURNISHING AND PLACING CONCRETE, PER MODOT EPG 613.3; INTERNAL SAW CUTS ARE INCLUDED IN FULL DEPTH SAW CUT QUANTITY. SIZE AND QUANTITY OF REPAIRS MAY VARY, ACTUAL LOCATIONS AND SIZE TO BE DETERMINED BY THE ENGINEER. THICKNESS OF EXISTING CONCRETE PAVEMENT IS 9 INCHES FOR UNDIVIDED AND 12 INCHES FOR DIVIDED, BASED ON OLD PLAN INFORMATION.										

DIAMOND GRINDING - CONCRETE PAVEMENT						
SHEET	LOG MILE	LOG MILE	LENGTH FT	AVGE. WIDTH FT	QUANTITY SQ.YD.	REMARKS
EAST BOUND LANES						
2	217.003	217.295	1541.76	24.5	4198	TRAVELWAY LANES - DIVIDED
2	217.295	217.378	438.24	38.5	1875	TRAVELWAY LANES AND DECEL. LANE - CRD 351
2	217.378	217.899	2750.88	24.5	7489	TRAVELWAY LANES - DIVIDED
2	217.899	217.972	385.44	38.5	1649	TRAVELWAY LANES AND DECEL. LANE - CRD 353
2	217.972	218.852	4646.4	24.5	12649	TRAVELWAY LANES - DIVIDED
2	218.852	218.864	63.36	-	-	TRAVELWAY EXCEPTION
2	218.864	218.969	554.4	12	740	DECEL. LANE ONLY - CRD 355
2	218.969	219.187	1151.04	-	-	TRAVELWAY EXCEPTION
2	219.187	219.736	2898.72	24.5	7891	TRAVELWAY LANES - DIVIDED
2	219.736	220.511	4092	38.5	17505	UNDIVIDED - BOTH LANES AND TWO WAY LEFT TURN LANE
2	220.511	220.595	443.52	32.5	1602	TRAVELWAY LANES AND TAPER - UNDIVIDED
2	220.595	220.646	269.28	-	-	RR BRIDGE EXCEPTION
2	220.646	220.719	385.44	33.5	1435	TRAVELWAY LANES AND TAPER - UNDIVIDED
2	220.719	220.740	110.88	25	308	TRAVELWAY LANES - DIVIDED
2	220.740	220.825	448.8	38	1895	TRAVELWAY LANES AND DECEL. LANE - DEPOT RD.
2	220.825	220.855	158.4	25	440	TRAVELWAY LANES - DIVIDED
2	220.855	220.927	380.16	38	1606	TRAVELWAY LANES AND DECEL. LANE - COMMERCIAL ENTRANCE
2	220.927	221.151	1182.72	25	3286	TRAVELWAY LANES - DIVIDED
WEST BOUND LANES						
2	0.319	0.462	755.04	25	2098	TRAVELWAY LANES - DIVIDED
2	0.462	0.514	274.56	38	1160	TRAVELWAY LANES AND DECEL. LANE - COMMERCIAL ENTRANCE
2	0.514	0.534	105.6	25	294	TRAVELWAY LANES - DIVIDED
2	0.534	0.615	427.68	38	1806	TRAVELWAY LANES AND DECEL. LANE - DEPOT RD.
3	0.615	0.758	755.04	25	2098	TRAVELWAY LANES - DIVIDED
4	0.758	0.831	385.44	24.5	1050	TRAVELWAY LANES - UNDIVIDED
5	0.831	0.881	264	-	-	RR BRIDGE EXCEPTION
6	0.881	1.739	4530.24	24.5	12333	TRAVELWAY LANES - UNDIVIDED
7	1.739	2.412	3553.44	24.5	9674	TRAVELWAY LANES - DIVIDED
2	2.412	2.493	427.68	38.5	1830	TRAVELWAY LANES AND DECEL. LANE - CRD 355 - DIVIDED
2	2.493	2.907	2185.92	24.5	5951	TRAVELWAY LANES - DIVIDED
2	3.368	3.463	501.6	12	669	DECEL. LANE ONLY - CRD 353 (BEYOND WB PROJECT LIMITS)
2	3.970	4.076	559.68	12	747	DECEL. LANE ONLY - CRD 351 (BEYOND WB PROJECT LIMITS)
				TOTAL	104278	
NOTE: GRIND THE CONCRETE SURFACE BETWEEN THE RUMBLE STRIPS, SEE TYPICAL SECTION FOR LOCATIONS. DO NOT DIAMOND GRIND OVER EXISTING RUMBLE STRIPS. THE CONTRACTOR SHALL COMPLETE ALL PAVEMENT REPAIR AND CROSS-STITCHING WORK PRIOR TO BEGINNING DIAMOND GRINDING.						

CROSS STITCHING				
LOG MILE	LOC.	LENGTH	# PANELS	TIE BARS EA.
219.677	EBL	60	4	24
2.161	WBL	106	7	42
			TOTAL	66

MOBILIZATION
1 LUMP SUM



DATE PREPARED 8/2/2021	
ROUTE 24	STATE MO
DISTRICT NE	SHEET NO. 3

COUNTY MARION
JOB NO. J2P3281
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION					

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

NOTE: PAVEMENT MARKING IS INCLUDED FOR THE EAST BOUND ASPHALT DIAMOND GRINDING EXCEPTION AND THE BNSF BRIDGE DECK EXCEPTION.

NOTE: SHAPING SLOPES CLASS III, PROVIDED FOR MASH CRASHWORTHY END TERMINAL INSTALLATION.

REMOVAL OF IMPROVEMENTS

OPTIONAL TEMPORARY PAVEMENT MARKING PAINT

1 LUMP SUM

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
FEB 1988

COUNTY

JOB NO.
1057004

CONTRACT ID

PROJECT NO.BRIDGE NO.DESCRIPTIONMISSOURI HIGHWAYS AND TRANSPORTATION

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

QUANTITY SHEET
SHEET 2 OF 3

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED:

DATE PREPARED 8/2/2021	
ROUTE 24	STATE MO
DISTRICT NE	SHEET NO 3

JOB NO.
J2P3281

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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[illegible][illegible]

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PIIT 651

MC

WESLEY

TR	1	NO
N		

FE



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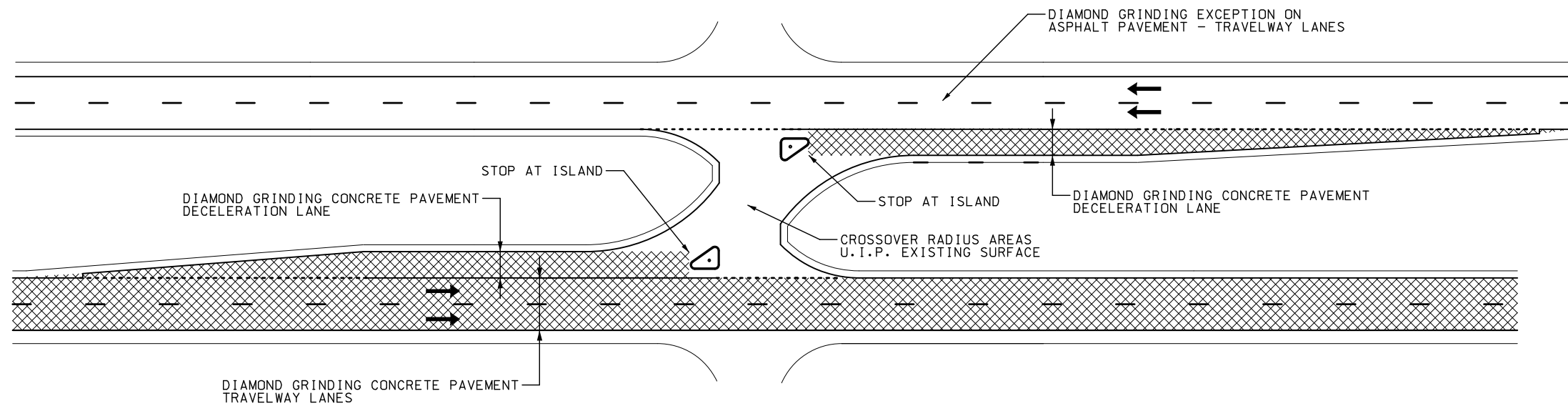
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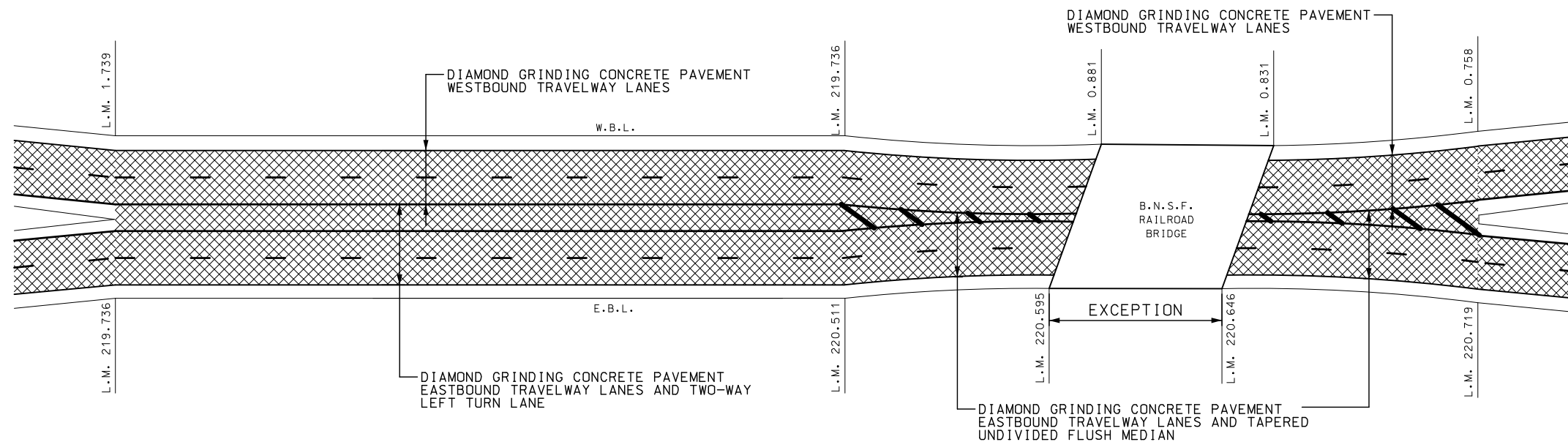
FREE

Q15



MEDIAN OPENING (DECELERATION LANES)
ADJACENT TO CONCRETE OR ASPHALT TRAVELWAY LANES

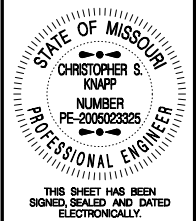
NOT TO SCALE



FOUR LANE UNDIVIDED WITH TWO WAY LEFT TURN LANE
AND VARIABLE WIDTH FLUSH MEDIAN

EBL - LOG MILE 219.736 TO LOG MILE 220.719
WBL - LOG MILE 0.758 TO LOG MILE 1.739

NOT TO SCALE



DATE PREPARED
8/2/2021
ROUTE
24
STATE
MO
DISTRICT
NE
SHEET NO.
4
COUNTY
MARION
JOB NO.
J2P3281
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

SPECIAL SHEET
1 OF 1

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.
REV.



BRIDGE
OR
RAMP



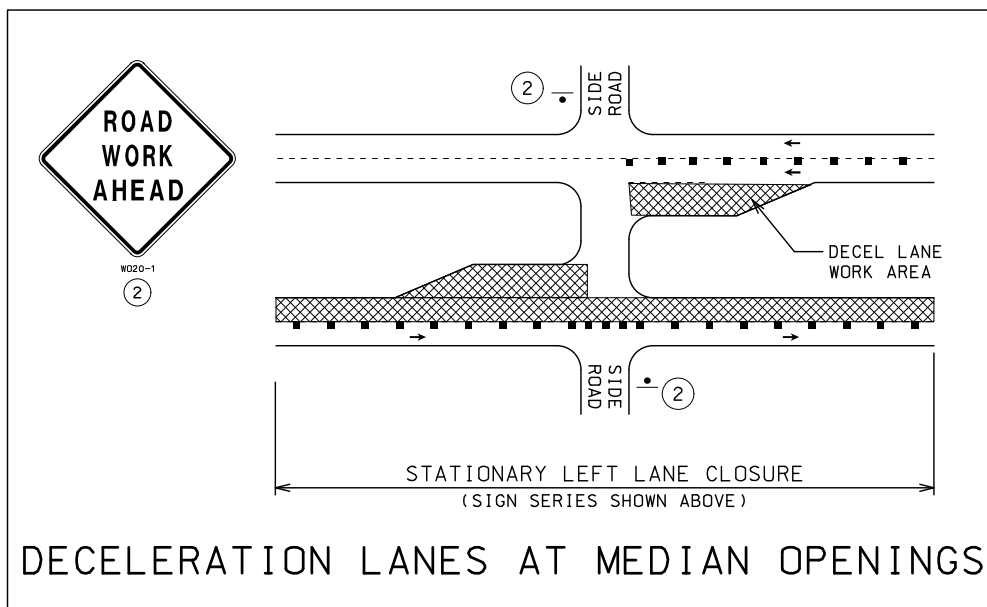
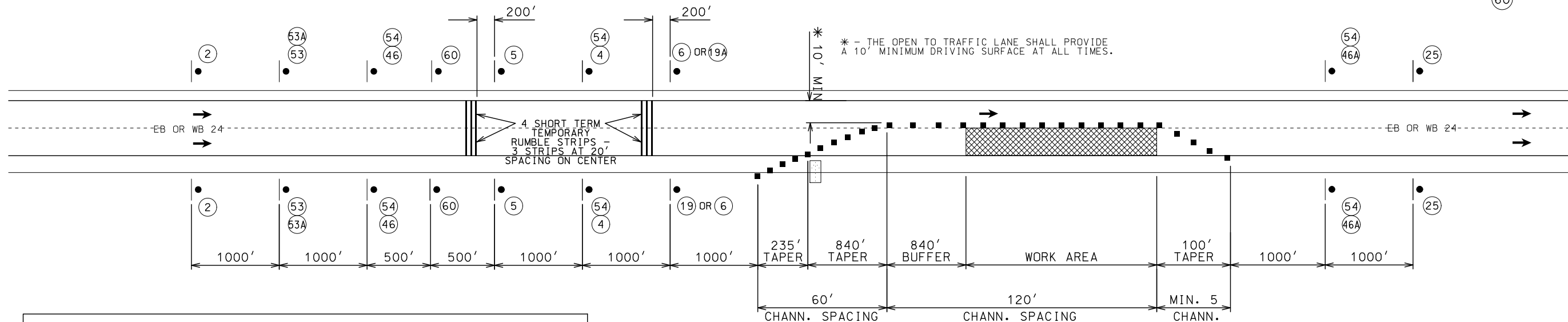
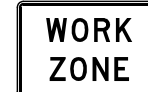
CENTER LANE
OR
LEFT LANE



CENTER
OR
LEFT



SPEEDING/PASSING



NOTES:

ANY EXISTING SIGNING THAT CONFLICTS WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED. NO DIRECT PAY.

ALL SIGNS AND DEVICES ARE CONSIDERED PORTABLE. NO DIRECT PAYMENT WILL BE MADE FOR ANY RELOCATIONS OF SIGNS AND DEVICES.

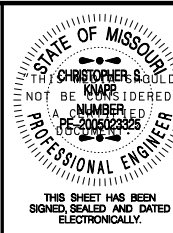
ADJUST CHANNELIZER SPACING, SIGN SPACING AND LOCATION AS REQUIRED BY FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

TEMPORARY SHORT TERM RUMBLE STRIPS SHALL BE ORANGE IN COLOR AND CONSIST OF 3 STRIPS, SPACED AT 20' CENTERS.

THE OPEN TO TRAFFIC LANE SHALL PROVIDE A 10' MINIMUM DRIVING SURFACE AT ALL TIMES.

TRAFFIC CONTROL LEGEND

- WORK AREA
- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- FLASHING ARROW PANEL
- TEMPORARY SHORT TERM RUMBLE STRIPS



DATE PREPARED
8/2/2021

ROUTE
24

DISTRICT
NE

STATE
MO

SHEET NO.
6

COUNTY
MARION

JOB NO.
J2P3281

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
LANE CLOSURE
SHEET 2 OF 6

STATIONARY LEFT OR RIGHT LANE CLOSURE WITH SPEED REDUCTION - DIVIDED HIGHWAY

NOT TO SCALE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI

CHRISTOPHER S. KNAPP

NUMBER
PE-2005023325

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
8/2/2021

ROUTE
24

DISTRICT
NE

STATE
MO

SHEET NO.
7

COUNTY
MARION

JOB NO.
J2P3281

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

TRAFFIC CONTROL SHEET
SHOULDER WORK
SHEET 3 OF 6

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

The diagram illustrates the traffic control setup for shoulder work on a two-lane divided highway. It shows the placement of signs (2 and 21), channelizers, and the work area with various spacing dimensions.

Signs:

- ROAD WORK AHEAD (W020-1):** Sign #2 is placed 1000' upstream of the taper.
- SHOULDER WORK AHEAD (W021-5):** Sign #21 is placed 235' upstream of the taper.

Channelizers and Spacing:

- SPACING TAPER 235':** The distance between the two signs.
- 120' CHANNELIZER SPACING:** The spacing between channelizers in the buffer space.
- 120' CHANNELIZER SPACING:** The spacing between channelizers in the work area.
- 100' TAPER 5 DEVICE MINIMUM:** The taper length for the work area.

Work Area: The area where the shoulder work is being performed, indicated by a hatched pattern.

EBL OR WBL: The direction of traffic flow, indicated by arrows.

GENERAL NOTES

- USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.
- SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.
- SIGN #21 DOES NOT NEED AN AWRS IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SHOULDER WORK
TWO-LANE DIVIDED HIGHWAY

TRAFFIC CONTROL LEGEND

•

SIGN

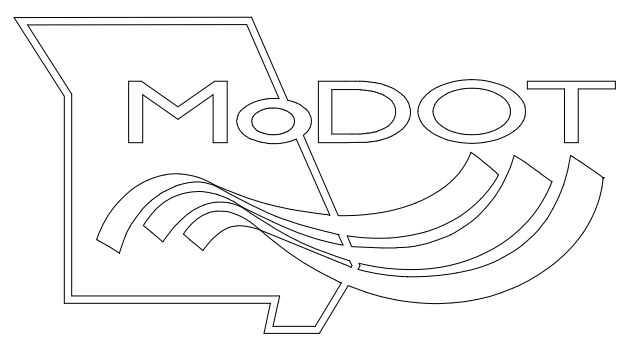
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TRIMLINE CHANNELIZER

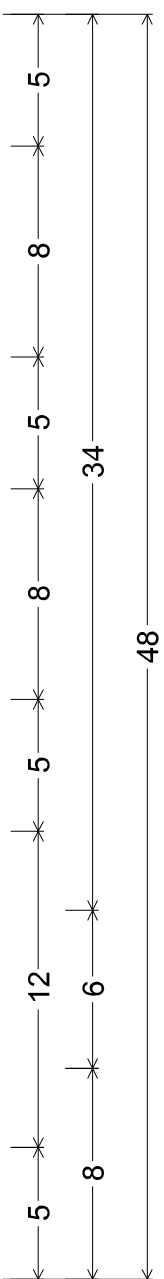
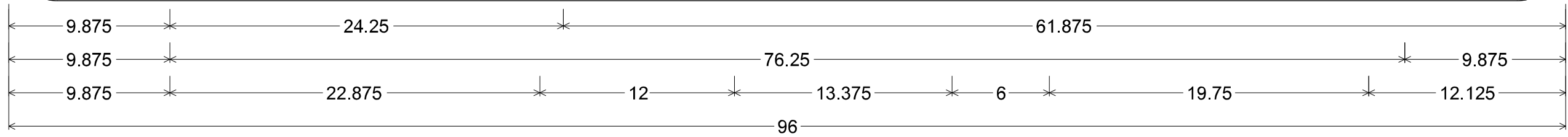
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WORK AREA


Road Improvements

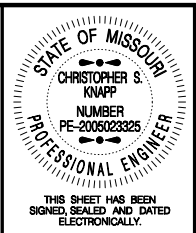


Fall 2022



CONST-5-96 SH-FLAT SHEET; 3.000" Radius, 1.000" Border, White on Blue;
[Road] D; [Improvements] D; [Fall 2022] D;
Table of letter and object lefts.

R 9.875	o 17.125	a 23.125	d 29.750										
l 9.875	m 14.000	p 24.000	r 30.625	o 35.000	v 41.000	e 47.625	m 54.250	e 63.750	n 70.375	t 76.750	s 81.625		
 F 9.875	a 44.750	l 49.000	l 54.375	l 57.250	2 64.125	0 69.375	2 74.625	2 79.875					



DATE PREPARED	
8/2/2021	
ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
NE	10
COUNTY	
MARION	
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J2P3281	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

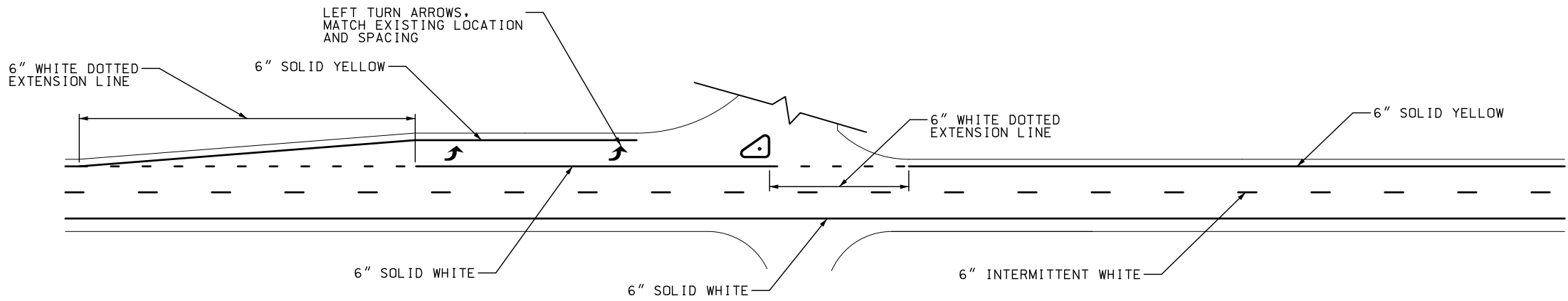
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
POINT OF PRESENCE SIGN
SHEET 6 OF 6

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PAVEMENT MARKING
DIVIDED TRAVELWAY AND MEDIAN OPENING (DECEL LANES BOTH DIRECTIONS)

NOTE:
DOTTED EXTENSION LINES (3' STRIPE WITH 9' GAP) TO BE ADDED AT DECEL. LANES AT MEDIAN OPENINGS.
ALL OTHER PAVEMENT MARKING TO MATCH EXISTING. FIELD VERIFY LOCATIONS AND QUANTITIES.
REFER TO EPG SECTION 620 AND THE MUTCD FOR FURTHER GUIDANCE.

NOT TO SCALE

STATE OF MISSOURI

CHRISTOPHER S. KNAPP

NUMBER
PE-2005023325

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
8/2/2021

ROUTE
24

DISTRICT
NE

STATE
MO

SHEET NO.
11

COUNTY
MARION

JOB NO.
J2P3281

CONTRACT ID.

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BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

PAVEMENT MARKING
SHEET 1 OF 1

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.