

DESIGN DESIGNATION

HWY 59
A.A.D.T. - 2023 = 1464
T = 20%
V = 35 M.P.H.

HWY 90
A.A.D.T. - 2023 = 325
T = 11%
V = 45 M.P.H.

HWY O
A.A.D.T. - 2023 = 302
T = 11%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION:
MO-59 - MINOR ARTERIAL
MO-90 - MAJOR COLLECTOR
RTE-O - MAJOR COLLECTOR

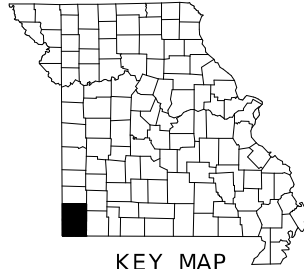
NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS (USED IN PLANS)

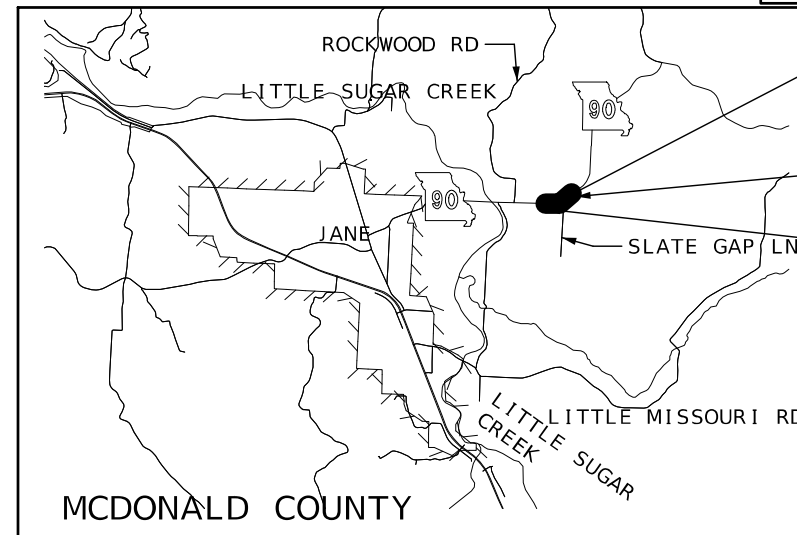
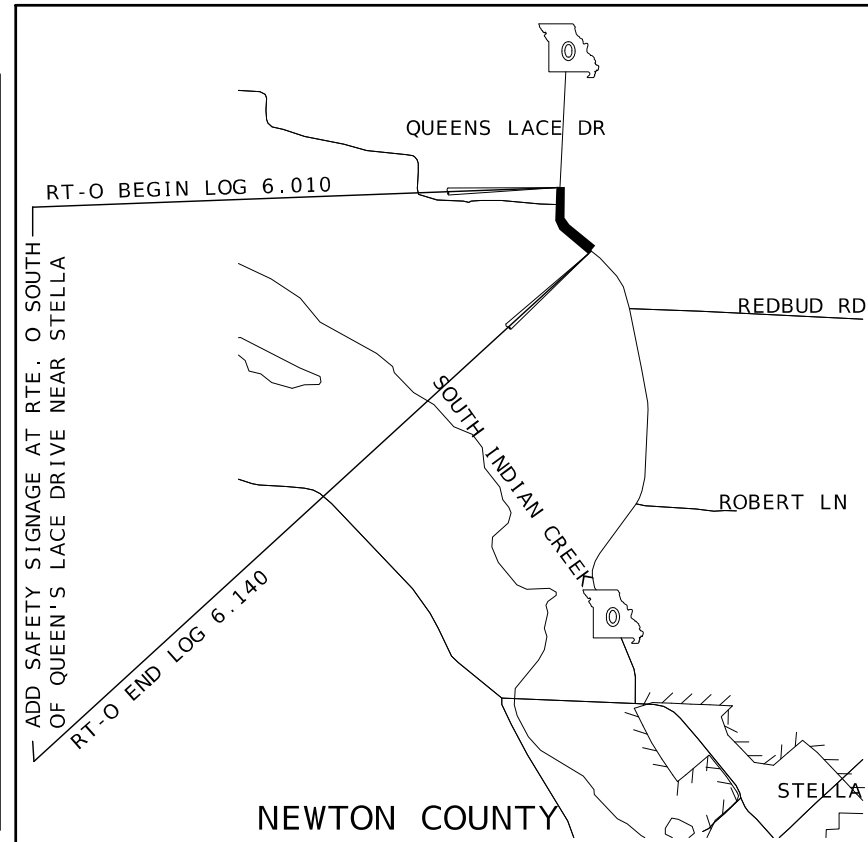
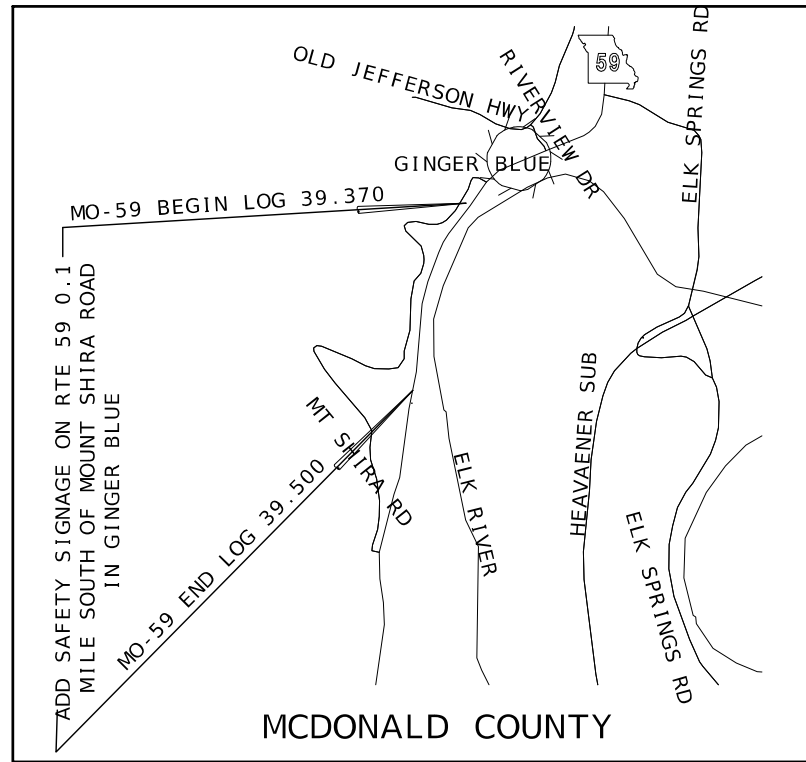
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	- FO -	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY MCDONALD/NEWTON COUNTY



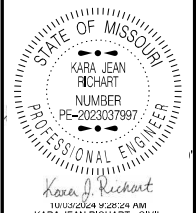
LOCATION OF MCDONALD/NEWTON COUNTY



NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (2 SHEETS)	3
SPECIAL SHEETS (SS)	4
TRAFFIC CONTROL (TC)	5-7
SIGNING (SN)	8-10



DATE PREPARED
10/3/2024

ROUTE
VAR.

STATE
MO

DISTRICT
SW

SHEET NO.
1

COUNTY
VAR.

JOB NO.
JSR0097

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

LENGTH OF PROJECT

MCDONALD CO.	
MO-90	
BEGINNING OF PROJECT	22.560
END OF PROJECT	22.700
APPARENT LENGTH	739.20 FT
MO-59	
BEGINNING OF PROJECT	39.370
END OF PROJECT	39.500
APPARENT LENGTH	686.40 FT
NEWTON CO.	
RT-O	
BEGINNING OF PROJECT	6.010
END OF PROJECT	6.140
APPARENT LENGTH	686.40 FT
EQUATIONS AND EXCEPTIONS:	
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	2112.00 FEET
STATE LENGTH	0.400 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0 ACRES

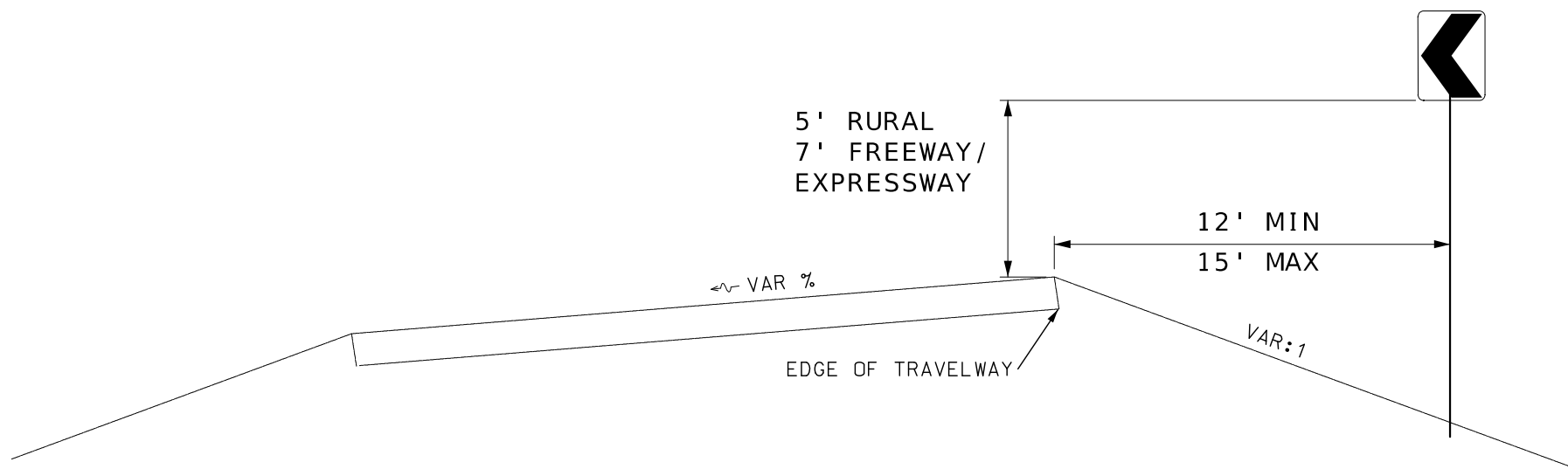
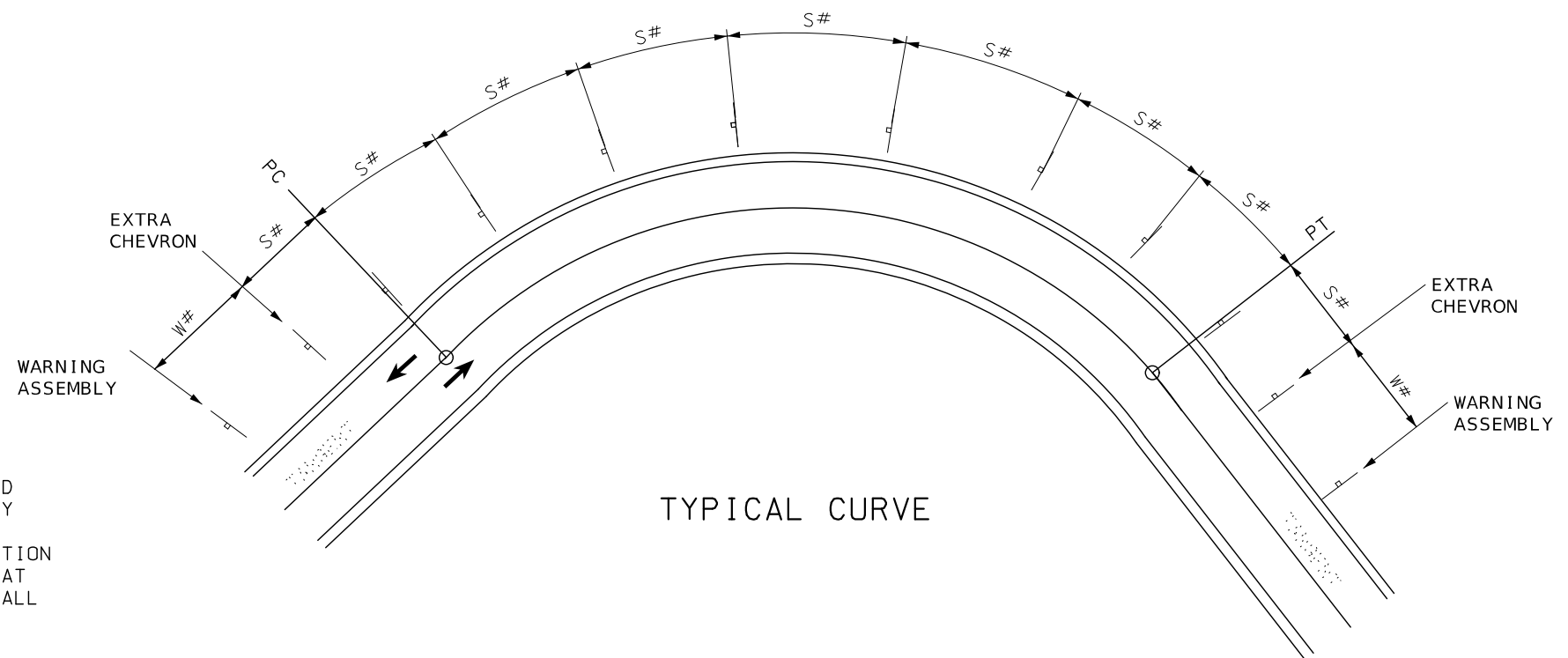
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SPACING OF CHEVRON ALIGNMENT SIGNS

ADVISORY SPEED	SIGN SPACING (S#)
15 MPH OR LESS	40'
20 TO 30 MPH	60'
35 TO 45 MPH	80'
50 TO 60 MPH	100'
MORE THAN 60 MPH	140'

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.



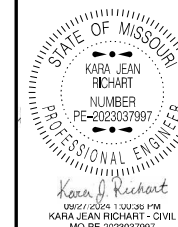
GUIDELINES FOR ADVANCE PLACEMENT OF WARNING SIGNS

POSTED SPEED	SIGN SPACING (W#)
35 MPH	100'
45 MPH	175'
55 MPH	325'

- * ALL CHEVRONS SHOULD BE MINIMUM 12' AWAY FROM ANY EXISTING UTILITY POLES
- ** IF AN EXISTING SHOULDER IS WIDER THAN 6', THE MIN OFFSET SHOULD BE 6' FROM EDGE OF SHOULDER

NOT TO SCALE

TYPICAL SECTION
SHEET 1 OF 2



DATE PREPARED
9/27/2024

ROUTE STATE
VAR. MO
DISTRICT SHEET NO.
SW 2

COUNTY
VAR.

JOB NO.
JSR0097

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

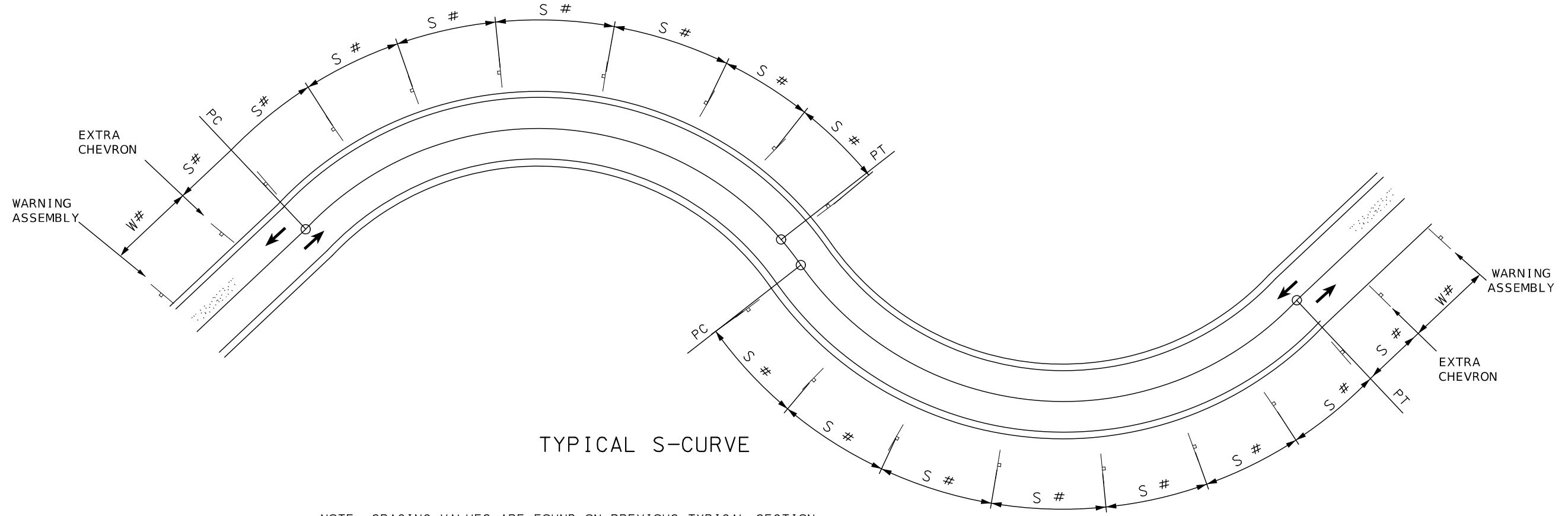
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





NOTE: SPACING VALUES ARE FOUND ON PREVIOUS TYPICAL SECTION

NOT TO SCALE

TYPICAL SECTION
SHEET 2 OF 2



DATE PREPARED
9/27/2024

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
VAR.

JOB NO.
JSR0097

CONTRACT ID.

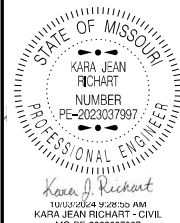
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
10/3/2024

ROUTE STATE
VAR. MO
DISTRICT SHEET NO.
SW 3

COUNTY
VAR.
JOB NO.
JSR0097
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

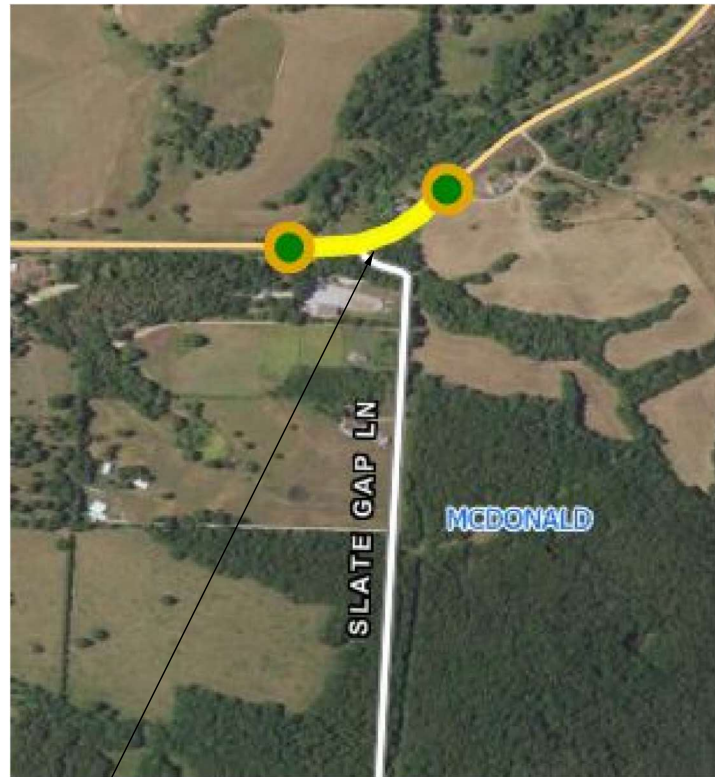
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

NEW SIGNS								REMOVAL OF IMPROVEMENTS					
RTE	DIRECTION	LOG MILE	LOG MILE	CURVE LENGTH (FT)	CHEVRONS	TAPCO LED SIGN 36" X 36" W1-5L	WARNING ASSEMBLY OR WARNING SIGN	SPEED PLAQUE MPH	REMOVAL UNIT	REMOVE TOTAL SIGNS	REMOVAL DESCRIPTION	NEW & REMOVAL REMARKS	
SPACING		35-45		80									
ADVISORY PLQ		50-60		100									
MCDONALD COUNTY													
90	EB	22.560					ASSEMBLY	35	EA	1	EXISTING SIGNS	W1-10R, W13-1P(35 MPH)	
	EB	22.566					SIGN		EA	1	EXISTING SIGN	OM3-R	
	EB	22.571	22.656	456	8		SIGNS		EA	8	EXISTING SIGN	W1-8D	
	WB	23.862					ASSEMBLY	-	EA	1	EXISTING SIGNS	W0-1, W16-2P	
	WB	23.995					SIGN		EA	1	EXISTING SIGN	OM3-R	
	WB	23.884					SIGN		EA	1	EXISTING SIGN	S3-1 (YELLOW GREEN)	
59	SB	39.208				1	TAPCO ASSEMBLY	35				SOLAR POWERED TAPCO LED LIT SIGN W1-5L, W13-1P(35 MPH)	
	NB	6.730				1	TAPCO ASSEMBLY	35				SOLAR POWERED TAPCO LED LIT SIGN W1-5L, W13-1P(35 MPH)	
	N/A	N/A				1	TAPCO SIGN					SIGN TO BE DELIVERED TO CLOSEST MAINTENANCE SHED FOR FUTURE REPLACEMENT	
NEWTON COUNTY													
0	SB	6.034	6.113	392	7		SIGNS		EA	8	EXISTING SIGNS	W1-8D (CHEVRONS TO INCLUDE PSST DELINEATOR ON BOTH SIDES)	
SEE D-30 SHEET FOR NEW SIGN QUANTITIES								1 LUMP SUM					

SOLAR POWERED TAPCO LED LIT SIGN 36" X 36" W1-5L 3 EACH
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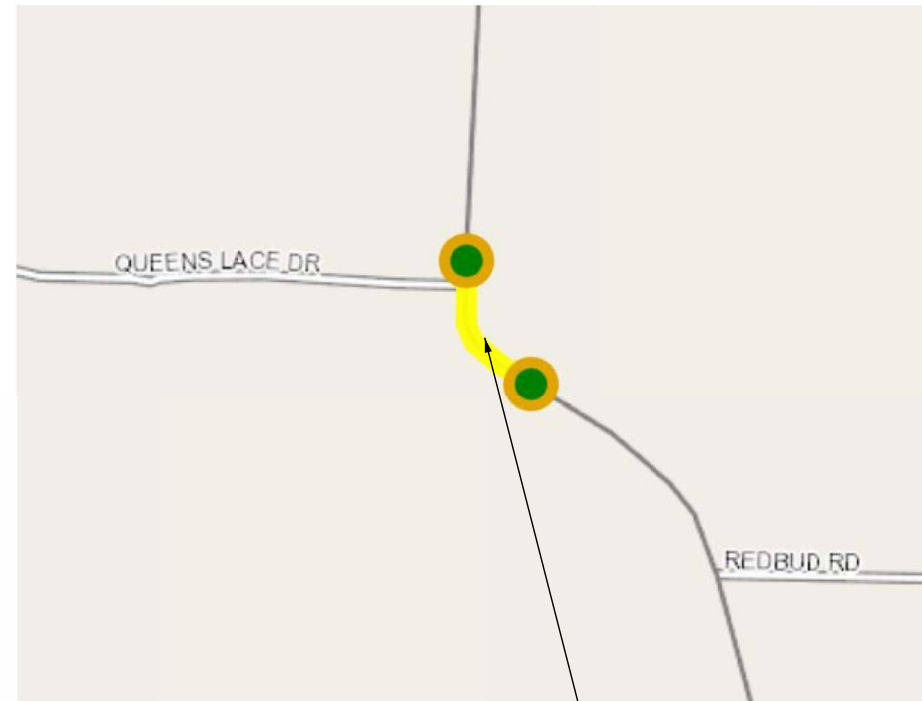
CONTRACTOR FURNISHED SURVEYING & STAKING 1 LUMP SUM
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MOBILIZATION 1 LUMP SUM



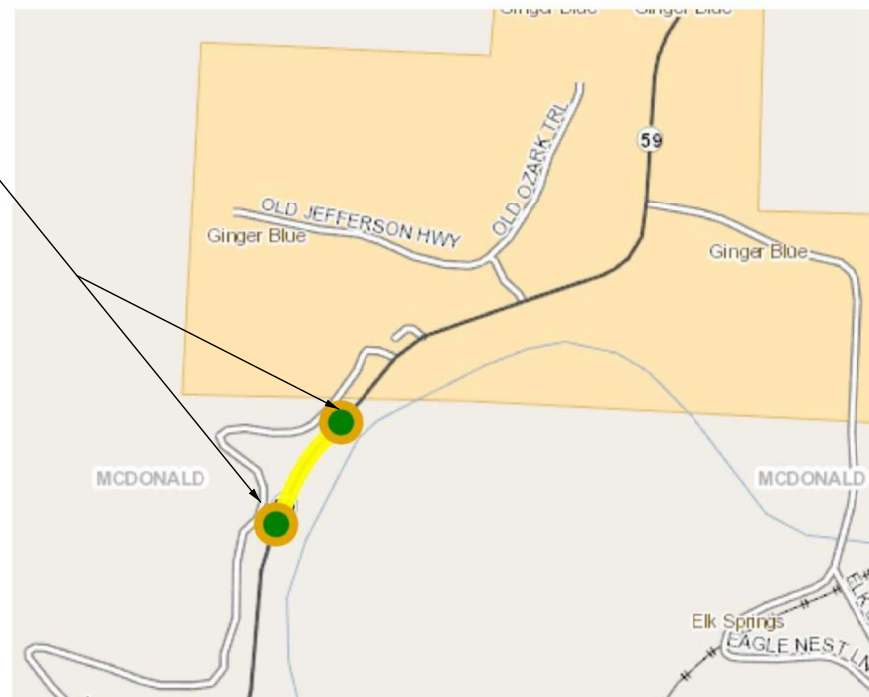
MO 90
 BEGIN LM 22.560
 END LM 22.700

NOTE: SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS



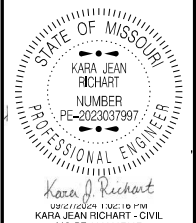
RT 0
 BEGIN LM 6.010
 END LM 6.140

MO 59
 BEGIN LM 39.370
 END LM 39.500



NOT TO SCALE

90/59/0
 MCDONALD/NEWTON COUNTY
 SPECIAL SHEET
 SHEET 1 OF 1



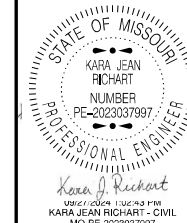
DATE PREPARED
 9/27/2024
 ROUTE
 VAR. MO
 DISTRICT
 SW SHEET NO.
 4
 COUNTY
 VAR.
 JOB NO.
 JSR0097
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

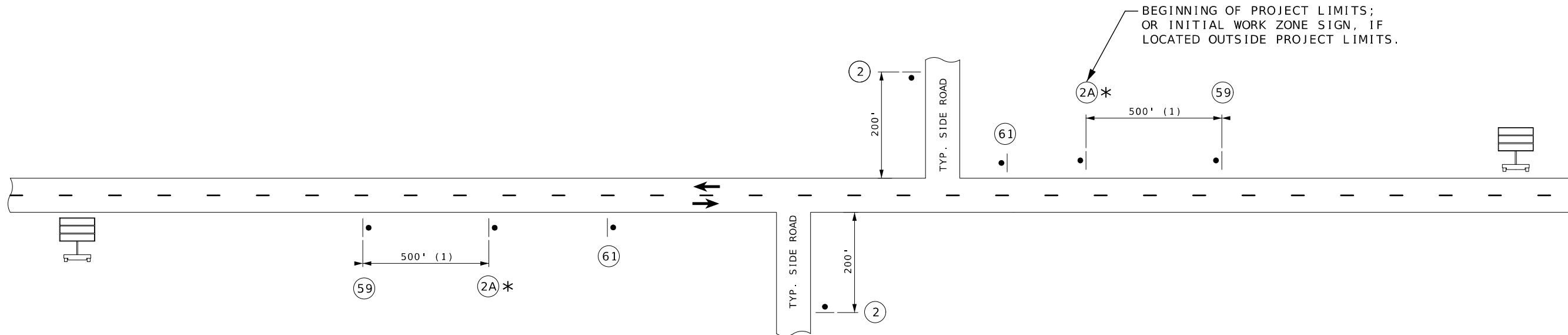
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.

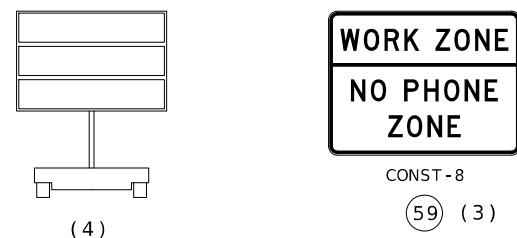
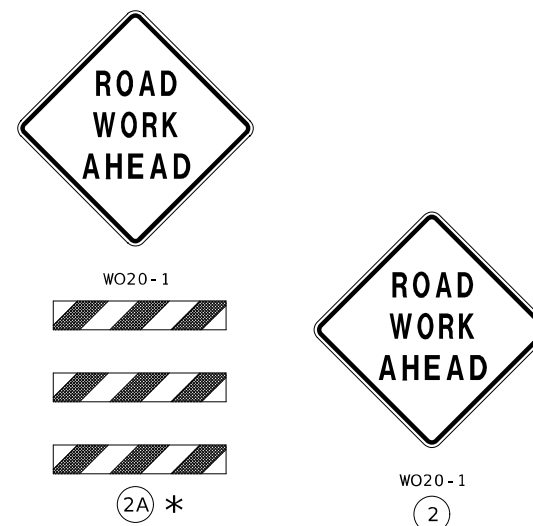


DATE PREPARED	9/27/2024		
ROUTE	VAR.	STATE	MO
DISTRICT	SW	SHEET NO.	5
COUNTY	VAR.		
JOB NO.	JSR0097		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			



**TYPICAL BEGINNING AND END OF PROJECT
(UNDIVIDED HIGHWAY)**

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.
- (3) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

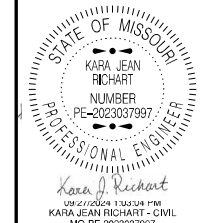


* SIGN 2A WITH AWRS MUST BE GROUND OR SKID MOUNTED.

NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 3

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



DATE PREPARED
9/27/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 6

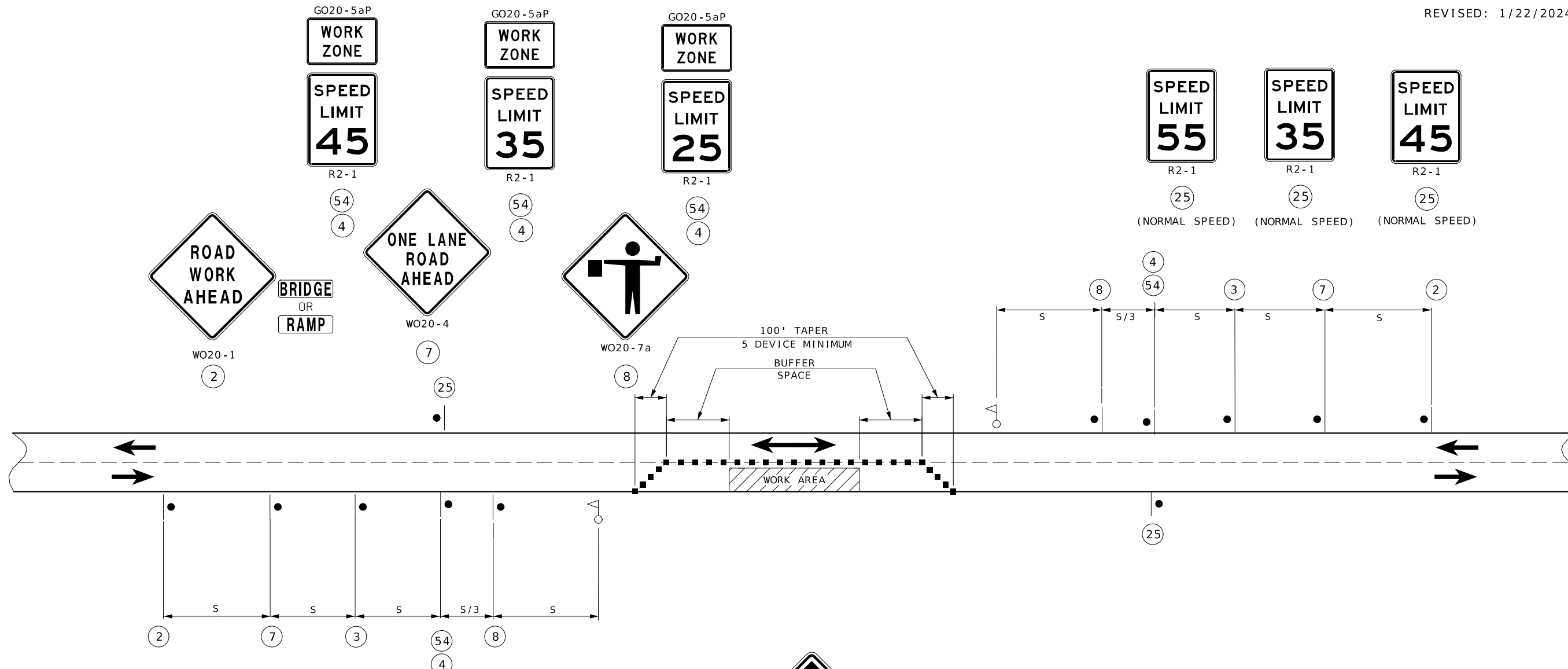
COUNTY
VAR.

JOB NO.
JSR0097

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



US-160 NIGHTTIME WORK ONLY
7 PM-7 AM

NOTES:

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.

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

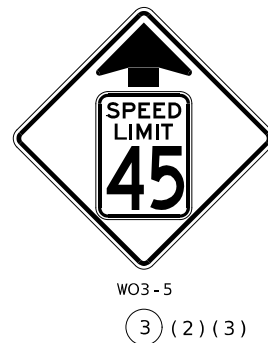
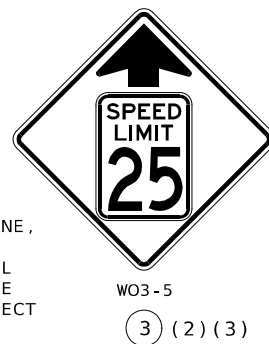
(2) FOR LONG-TERM STATIONARY OPERATIONS, ADVANCE WARNING RAIL SYSTEM SHALL ENHANCE ALL SIGNS WITHIN THE FIRST ADVANCED WARNING AREA, ACCORDING TO EPG 616.2.9.

(3) USE ONLY WHEN SPEED REDUCTION IS GREATER THAN 10 MPH BELOW NORMAL POSTED SPEED LIMIT. FURTHER GUIDANCE IN EPG 616.29 WORK ZONE SPEED LIMITS.

■ - CHANNELIZERS

⚠ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).



SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING 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, AS APPROVED BY ENGINEER.

LANE CLOSURE USING FLAGGERS
(UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 2 OF 3

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

SIDE ROADS ENTERING WORK ZONES

SPEED	SIGN SPACING (FT.)	
	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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

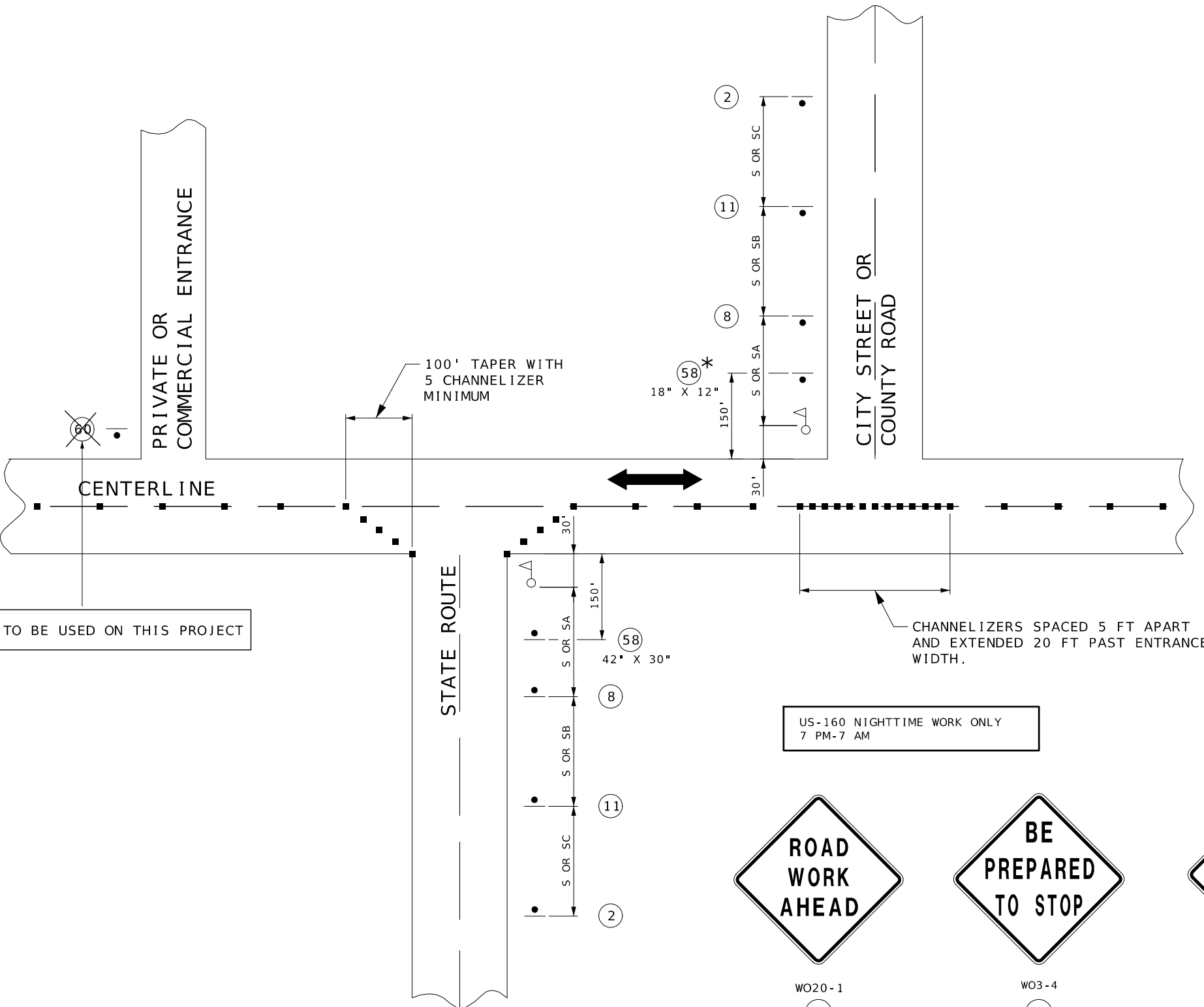
NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

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

■ - CHANNELIZERS

⚠ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).



NOT TO BE USED ON THIS PROJECT

NOT TO BE USED ON THIS PROJECT



SHALL BE USED ON ALL INTERSECTIONS.

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



SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.



W020-1
2

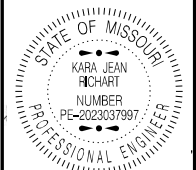


W03-4
11



W020-7a
8

NOT TO SCALE



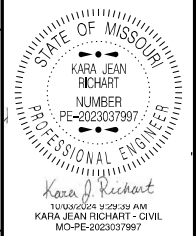
DATE PREPARED: 9/27/2024
ROUTE: VAR. STATE: MO
DISTRICT: SW SHEET NO.: 7
COUNTY: VAR.
JOB NO.: JSR0097
CONTRACT ID:

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)





DATE PREPARED
10/3/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 8

COUNTY
VAR.

JOB NO.
JSR0097

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)

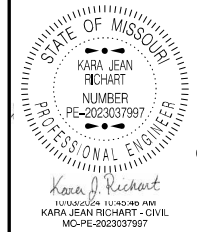
SIGNS					CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *					PIPE POSTS *					BACKING BARS **					U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE										REMARKS AND OTHER REQUIRED ITEMS		
902 SIGNAL SIGNS TABULATED ON D-37A SHEET						ITEM NO. 9031010 CY	POST DES NO.	POSTS			LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE SIZE	POSTS			LBS PER FT	TOTAL ITEM NO. 9031220 LBS	2" X 3/8" BARS @ 2.55 LBS PER FT			ITEM NO. 9031250A	2 IN. POST		ANCHORS						BREAK-AWAY ASSEMBLY			
SIGN NO.	SIGN SIZE	ROUTE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.			NO. 1	NO. 2	NO. 3				NO. 1	NO. 2	NO. 3			NO. 1	NO. 2	NO. 3		NO.	LGTH	TOTAL	TOTAL	NO. 1	NO. 2	TOTAL	DRIVEN 12-GA.		DRIVEN 7-GA.	CONCRETE 7-GA.	POST NO. 1
						LF	LF	LF	IN.	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA			
ASSEMBLY	RT 59			MCDONALD																													TAPCO ASSEMBLIES	
18"x24"	RT 90			MCDONALD																													CHEVRONS	
ASSEMBLY	RT 90			MCDONALD																													WINDING ROAD AND SPEED PLAQUE ASSBLY	
12"x36"	RT 90			MCDONALD																													OBJECT MARKERS	
ASSEMBLY	RT 90			MCDONALD																													WARNING SIGN AND DISTANCE PLAQUE ASSBLY	
36"x36"	RT 90			MCDONALD																													SCHOOL BUS STOP	
18"x24"	RT O			NEWTON																													CHEVRONS	
SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS / LOG MILES																																		
SUBTOTAL																					24													
TOTAL																					24													

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
	LBS/FT	LBS/IN		DIA.	DEPTH	
2 1/2	5.79	0.48	4'-3 3/4"	12"	4-6"	0.13
4	10.79	0.90	5'-3 3/4"	18"	5-6"	0.36

POST DES. NO.	NOM. SIZE	POST			DIA.	FOOTING									
		WEIGHT		STUB LENGTH		LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE			
		LBS/FT	LBS/IN			DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.		
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17		
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54		
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78		
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45		
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52		
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65		

**** SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS / LOG MILES**



STANDARD SIGN ASSEMBLIES											SIGN SUMMARY									
SIGN NUMBER	LOG MILE	COUNTY	ROUTE	TYPE									STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
				SIGN DESCRIPTION, SIZES & NUMBER OF EACH												SIZE (sq. ft.)	FLAT SHEET SH ITEM NO.	FLAT SHEET FLUORESCENT SHF * ITEM NO.	STRUCTURAL ST ITEM NO.	STRUCTURAL FLUORESCENT STF * ITEM NO.
				W1-8D 18"x24"	W1-5L 36"x36"	W13-1P 24"x24"	DL-3 72"x48"	OM3-R 12"x36"	S3-1 36"x36"	W0-1 36"x36"	W16-2P 24"x18"	W1-10R 36"x36"								
**	VAR	MCDONALD	90	8	1	1		2	1	1	1	1	W1-8D	15	3		45			
**	VAR	MCDONALD	59			2							W1-5L	1	9		9			
**	VAR	NEWTON	0	7			14						W13-1P	3	4		12			
													DL-3	14	2		28			
													OM3-R	2	3		6			
													S3-1	1	9		9			
													W0-1	1	9		9			
													W16-2P	1	3		3			
													W1-10R	1	9		9			
				TOTAL	15	1	3	14	2	1	1	1	TOTAL				130			

DATE PREPARED
10/3/2024

ROUTE **VAR.** STATE **MO**

DISTRICT **SW** SHEET NO. **9**

COUNTY **VAR.**

JOB NO. **JSR0097**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

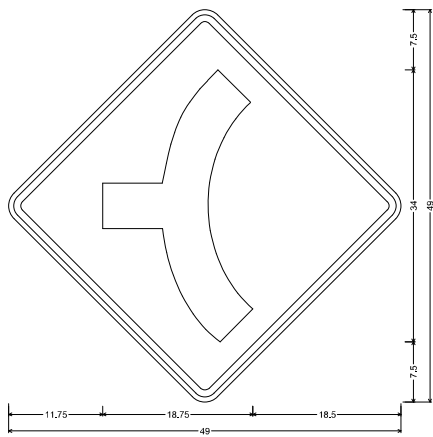
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

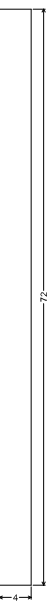
* ORANGE, YELLOW & YELLOW/GREEN

SIGN NO.	W0-1
LOG MILE	23.862
ROADWAY	90

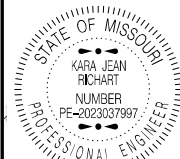


SPECIAL SHF-FLAT SHEET FLUORESCENT;
 36,000" across sides 2.250" Radius, 0.875" Border, 0.625" Indent, Black on Yellow;
 Face of letter and object black
 1:1,750

SIGN NO.	DL-3
STATION	6.036-6.134
ROADWAY	0



DL-3 SHF-FLAT SHEET FLUORESCENT;
 No border, Yellow



Kara J. Richart
 KARA JEAN RICHART - CIVIL
 MO-PE-2023037997

DATE PREPARED
 10/3/2024

ROUTE	STATE
VAR.	MO

DISTRICT	SHEET NO.
SW	10

COUNTY
 VAR.

JOB NO.
 JSR0097

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

SIGNING SHEET
 SHEET 3 OF 3

DESIGN DESIGNATION

LAWRENCE
 MO-265 MINOR ARTERIAL
 A.A.D.T. - 2023 = 2792
 T = 13% V = 55 M.P.H.

MO-39 MINOR ARTERIAL
 A.A.D.T. - 2023 = 2792
 T = 13% V = 55 M.P.H.

BARRY
 MO-248 MAJOR COLLECTOR
 A.A.D.T. - 2022 = 614
 T = 15% V = 55 M.P.H.

MO-39 MINOR ARTERIAL
 A.A.D.T. - 2023 = 827
 T = 8% V = 55 M.P.H.

MO-76 MINOR ARTERIAL
 A.A.D.T. - 2023 = 164
 T = 20% V = 70 M.P.H.

MO-90 MAJOR COLLECTOR
 A.A.D.T. - 2023 = 312
 T = 10% V = 55 M.P.H.

STONE
 MO-176 MAJOR COLLECTOR
 A.A.D.T. - 2023 = 680
 T = 13% V = 35 M.P.H.

MO-248 MAJOR COLLECTOR/PRINCIPAL ARTERIAL
 A.A.D.T. - 2023 = 588
 T = 11% V = 55 M.P.H.

MO-76 MINOR ARTERIAL
 A.A.D.T. - 2023 = 2175
 T = 20% V = 45 M.P.H.

TANEY
 MO-76 FREEWAY
 A.A.D.T. - 2023 = 6108
 T = 8% V = 65 M.P.H.

MO-176 MAJOR COLLECTOR/MINOR ARTERIAL
 A.A.D.T. - 2023 = 13977
 T = 15% V = 55 M.P.H.

US-160 MINOR ARTERIAL/MAJOR COLLECTOR
 A.A.D.T. - 2023 = 3811
 T = 8% V = 45 M.P.H.

WEBSTER
 RT KK MAJOR COLLECTOR
 A.A.D.T. - 2021 = 460
 T = 11% V = 55 M.P.H.

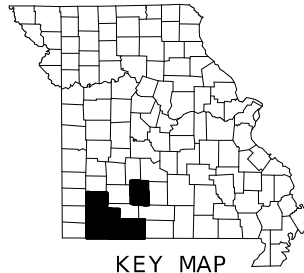
NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS
 (USED IN PLANS)

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

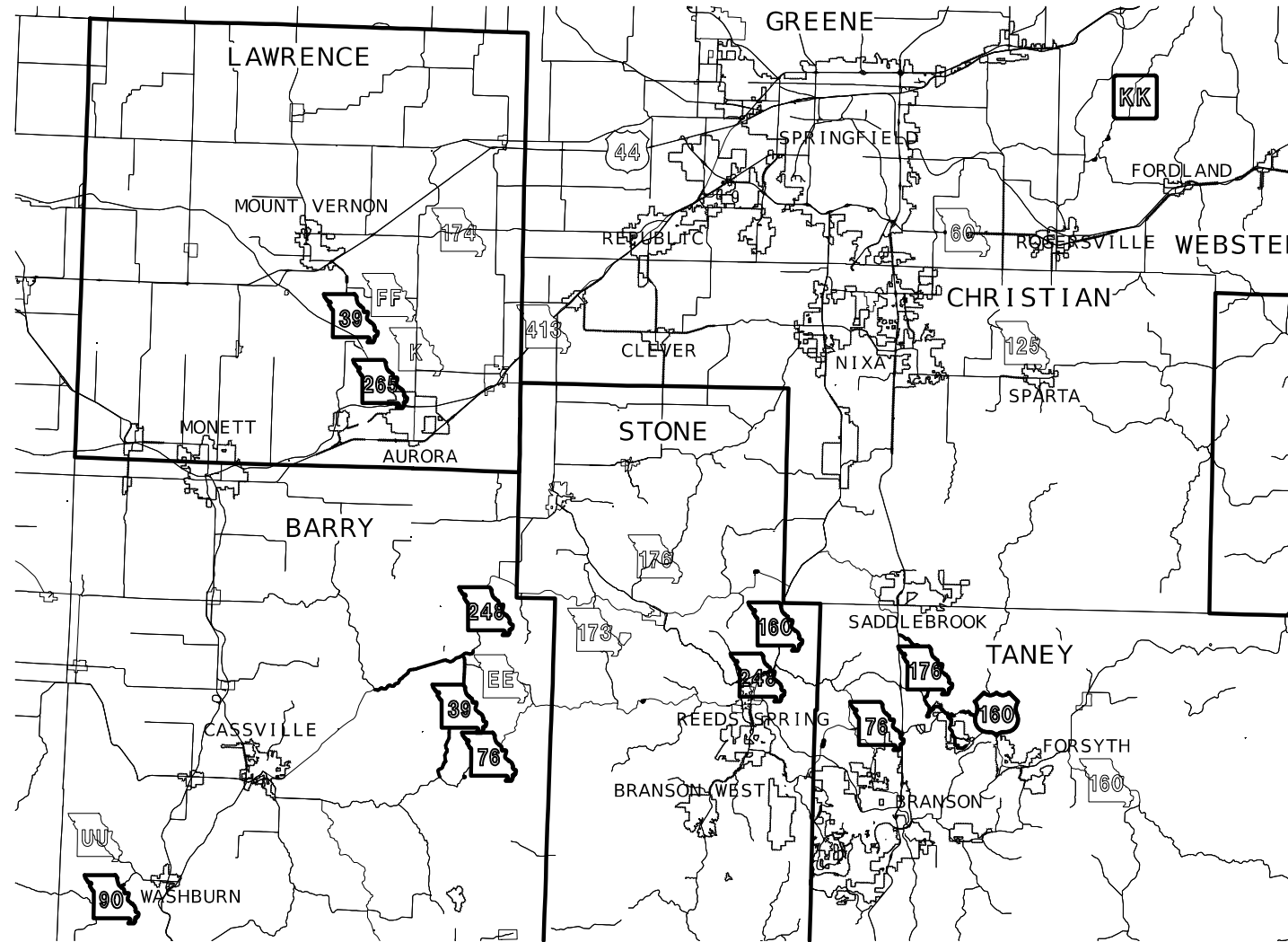
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 PLANS FOR PROPOSED
 STATE HIGHWAY
 BARRY, LAWRENCE, STONE, TANEY, WEBSTER
 COUNTIES



KEY MAP
 LOCATION OF CHEVRON PROJECTS

SAFETY SIGNAGE AT VARIOUS LOCATIONS



NOT TO SCALE

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)---	2
QUANTITIES (QU) (6 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-8
TRAFFIC CONTROL (TC) -----	9-17
SIGNING (SN) -----	18-20

LENGTH OF PROJECT

LAWRENCE			
MO-265	BEGIN 1.104	END 5.311	LENGTH 22212.96 FT
BARRY			
MO-248	BEGIN 8.500	END 15.000	LENGTH 34320.00 FT
MO-39	BEGIN 88.000	END 95.659	LENGTH 40439.52 FT
MO-76	BEGIN 67.486	END 67.626	LENGTH 739.20 FT
MO-90	BEGIN 42.890	END 43.020	LENGTH 686.4 FT
STONE			
MO-176	BEGIN 6.540	END 6.770	LENGTH 1214.40 FT
MO-248	BEGIN 41.031	END 41.171	LENGTH 739.20 FT
MO-76	BEGIN 81.706	END 81.886	LENGTH 950.40 FT
TANEY			
MO-76	BEGIN 97.794	END 97.968	LENGTH 1161.60 FT
MO-176	BEGIN 20.000	END 30.000	LENGTH 52800.00 FT
US-160			
	BEGIN 139.061	END 139.191	LENGTH 686.40 FT
	BEGIN 140.331	END 140.471	LENGTH 1161.60 FT
	BEGIN 141.041	END 141.201	LENGTH 844.80 FT
	BEGIN 141.171	END 141.301	LENGTH 686.40 FT
	BEGIN 141.331	END 141.551	LENGTH 1161.60 FT
	BEGIN 141.521	END 141.681	LENGTH 844.80 FT
	BEGIN 141.861	END 142.011	LENGTH 792.00 FT
WEBSTER			
RT KK	BEGIN 11.500	END 11.600	LENGTH 528.00 FT
	BEGIN 13.000	END 13.200	LENGTH 1056.00 FT

EQUATIONS AND EXCEPTIONS: NONE

NET LENGTH OF PROJECT 168432.00 FEET
 STATE LENGTH 31.900 MILES

FOR INFORMATION ONLY
 ESTIMATED DISTURBED ACRES 0 ACRES



KARA JEAN RICHART
 PROFESSIONAL ENGINEER
 DATE PREPARED
 10/18/2024

ROUTE STATE
 VAR. MO
 DISTRICT SHEET NO.
 SW 1

COUNTY
 VAR.
 JOB NO.
 JSR0099
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



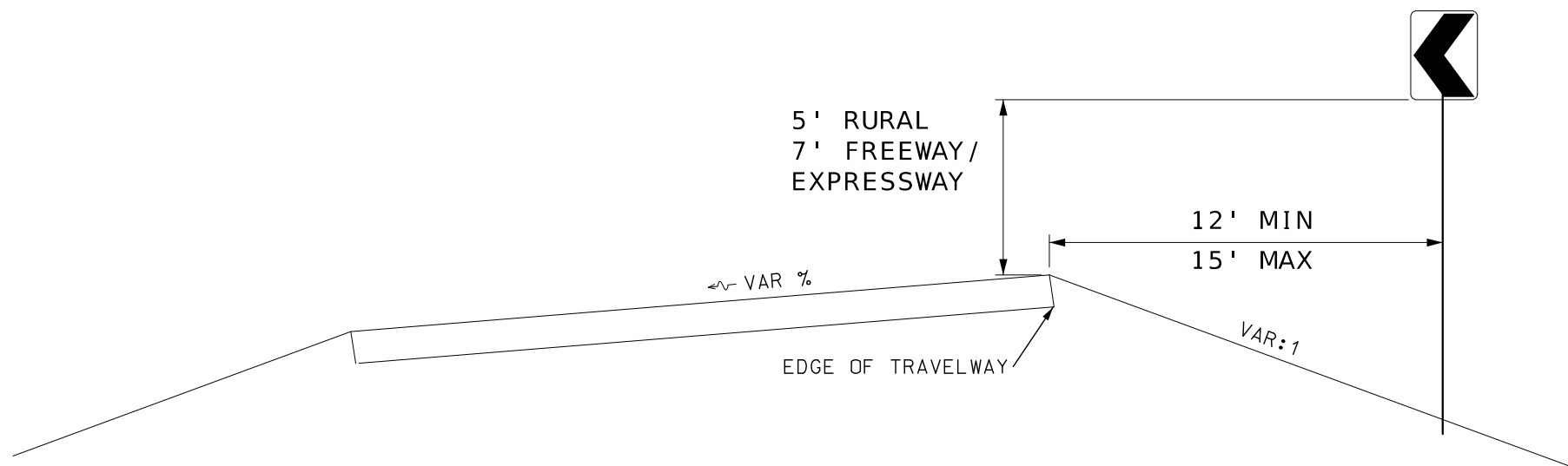
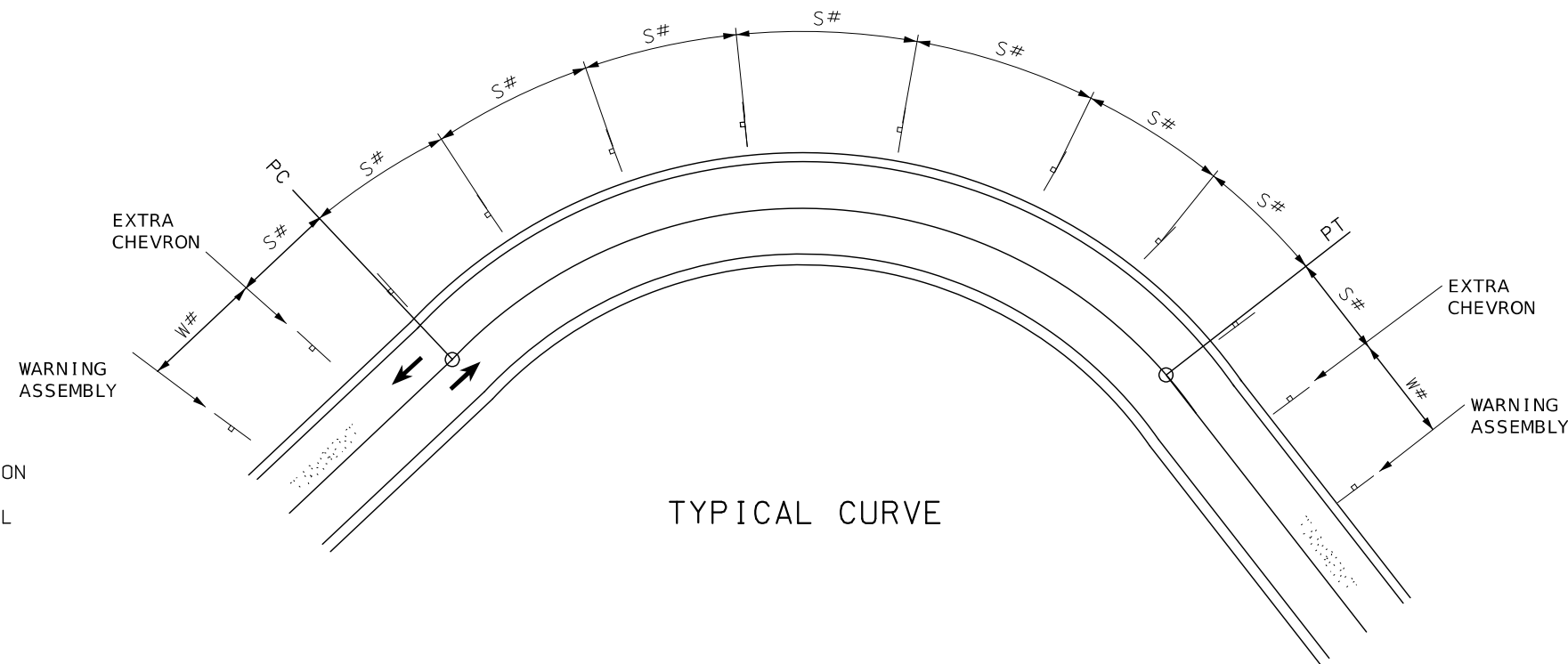
TYPICAL SPACING OF CHEVRON ALIGNMENT SIGNS

ADVISORY SPEED	SIGN SPACING (S#)
15 MPH OR LESS	40'
20 TO 30 MPH	60'
35 TO 45 MPH	80'
50 TO 60 MPH	100'
MORE THAN 60 MPH	140'

NOTES:

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.

USE LARGER SIZE CHEVRON FOR FREEWAYS AND EXPRESSWAYS.

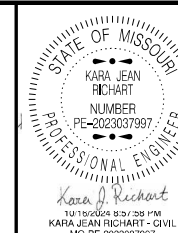


- * ALL CHEVRONS SHOULD BE MINIMUM 12' AWAY FROM ANY EXISTING UTILITY POLES
- ** IF AN EXISTING SHOULDER IS WIDER THAN 6', THE MIN OFFSET SHOULD BE 6' FROM EDGE OF SHOULDER

NOT TO SCALE

GUIDELINES FOR ADVANCE PLACEMENT OF WARNING SIGNS	
POSTED SPEED	SIGN SPACING (W#)
45 MPH	175'
50 MPH	250'
55 MPH	325'
65 MPH	475'
70 MPH	550'

TYPICAL SECTION
SHEET 1 OF 2



DATE PREPARED
10/16/2024

ROUTE VAR. MO

DISTRICT SW SHEET NO. 2

COUNTY VAR.

JOB NO. JSR0099

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
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 2

COUNTY
VAR.

JOB NO.
JSR0099

CONTRACT ID.

PROJECT NO.

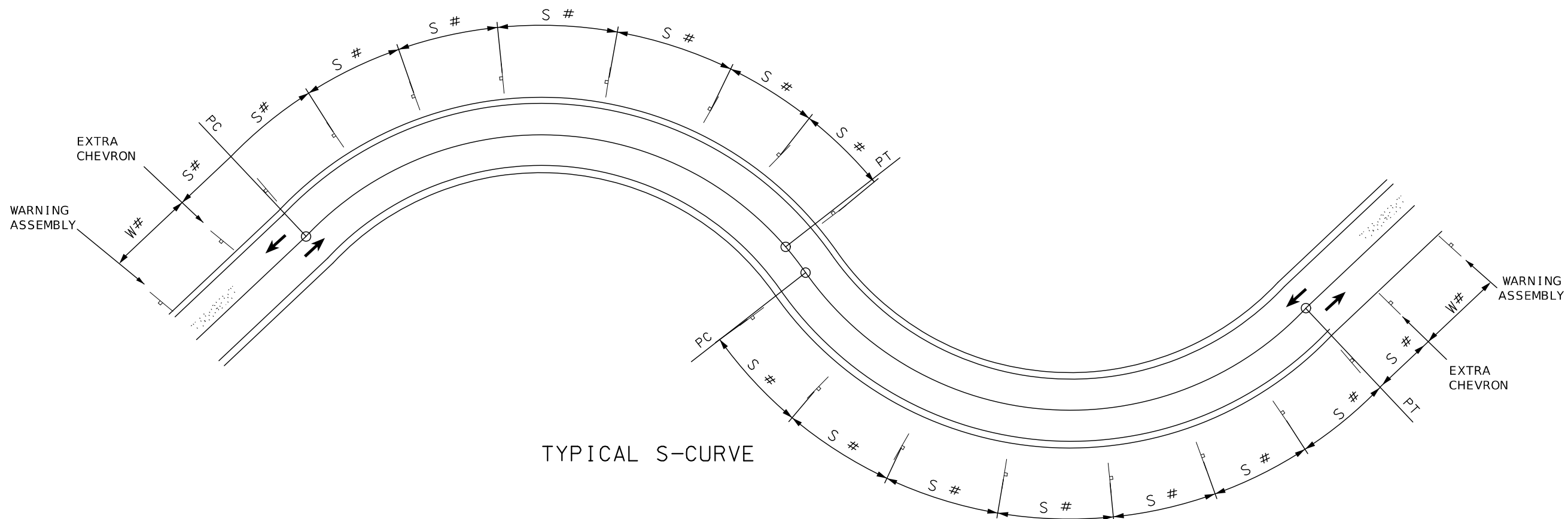
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



TYPICAL S-CURVE

NOTE: SPACING VALUES ARE FOUND ON PREVIOUS TYPICAL SECTION

NOT TO SCALE

ROUTE	DIRECTION	LOG MILE	LOG MILE	CURVE NAME	CURVE LENGTH (FT)	NEW SIGNS			REMOVAL OF IMPROVEMENTS			NEW & REMOVAL REMARKS
						CHEVRONS	WARNING ASSEMBLY OR WARNING SIGN	SPEED PLAQUE MPH	REMOVAL UNIT	REMOVE TOTAL SIGNS	REMOVAL DESCRIPTION	
LAWRENCE COUNTY												
265	SB	0.736										
	SB	1.134					SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)
	SB	2.771					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-10R, W13-1P
	SB	2.865	2.978	CURVE 1	354	6	ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-2L, W13-1P
	SB	3.034					SIGNS					W1-8D (18"x24")
	SB	3.691					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	SB	3.932	4.093	CURVE 2	823	11	ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	SB	5.658					SIGNS					W1-8D (18"x24")
	NB	61.556					SIGN		EA	1	EXISTING SIGN	S3-1
	NB	62.434					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-2R, W13-1P
	NB	62.771	62.588	CURVE 3	794	10	ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	NB	62.775					SIGNS					W1-8D (18"x24")
	NB	63.513					3 SIGNS					OM3-R
	NB	63.638	63.768	CURVE 4	499	7	ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	NB	63.952					SIGNS					W1-8D (18"x24")
	NB	65.605					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-2R, W13-1P
NB	65.631	65.729	CURVE 5	405	7	ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-10L, W13-1P	
NB	66.046					SIGNS					W1-8D (18"x24")	
39	SB	66.922	67.078	CURVE 1	796	10	SIGN		EA	1	EXISTING SIGN	W2-2 (RIGHT)
	SB	67.407					SIGNS					W1-8D (18"x24")
	SB	67.436					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-2R, W13-1P
	SB	67.520					SIGN		EA	1	EXISTING SIGN	S3-1
	NB	43.383					SIGN		EA	1	EXISTING SIGN	W10-2
	NB	43.442					SIGN		EA	1	EXISTING SIGN	S3-1
	NB	43.522					SIGN		EA	1	EXISTING SIGN	W10-2
	NB	43.642	43.794	CURVE 2	563	8	ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-2L, W13-1P
	NB	44.081					SIGNS					W1-8D (18"x24")
	NB						ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-2R, W13-1P
	BARRY COUNTY											
90	EB	42.900	42.997	CURVE 1	495	7	SIGNS		EA	9	EXISTING SIGNS	W1-8D (18"x24")
248	EB	8.546	8.668	CURVE 1	864	11	SIGNS					W1-8D (18"x24")
	EB	8.978	9.198	CURVE 2	1046	13	SIGNS					W1-8D (18"x24")
	EB	9.497					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P
	EB	9.511	9.712	CURVE 3	695	9	SIGNS					W1-8D (18"x24")
	EB	9.893	10.075	CURVE 4	959	12	SIGNS					W1-8D (18"x24")
	EB	9.920					SIGN		EA	1	EXISTING SIGN	S3-1
	EB	10.280	10.390	CURVE 5	381	6	SIGNS					W1-8D (18"x24")
	EB	10.617					ASSEMBLY	40	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	EB	10.723	10.819	CURVE 6	490	7	SIGNS					W1-8D (18"x24")
	EB	11.018					SIGN		EA	1	EXISTING SIGN	W11-10
	EB	12.780					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-4R, W13-1P
	EB	13.263	13.506	CURVE 7	1254	15	SIGNS					W1-8D (18"x24")
	EB	13.682					SIGN		EA	1	EXISTING SIGN	W11-8
	EB	14.022					SIGN		EA	1	EXISTING SIGN	W3-1
	EB	14.122					ASSEMBLY		EA	1	2 SIGN FACES ONLY	R1-1, W4-4P (UIP PSST)
	EB	14.261					SIGN		EA	1	EXISTING SIGN	W3-1
	EB	14.538					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P
	EB	14.549	14.917	CURVE 8	1840	21	SIGNS					W1-8D (18"x24")
	WB	41.323					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-2L, W13-1P
	WB	41.332	41.545	CURVE 9	1151	14	SIGNS					W1-8D (18"x24")
	WB	41.562					SIGN		EA	1	EXISTING SIGN	W3-1
	WB	41.683					ASSEMBLY		EA	1	2 SIGN FACES ONLY	R1-1, W4-4P (UIP PSST)
	WB	41.803					SIGN		EA	1	EXISTING SIGN	W3-1
	WB	41.984					NO REPLACEMENT		EA	1	EXISTING SIGN	W11-8 (REMOVE ONLY, NOT REPLACE)
	WB	42.304					ASSEMBLY	50	EA	1	EXISTING ASSEMBLY	W1-4R, W13-1P
	WB	42.648	42.839	CURVE 10	993	12	SIGNS					W1-8D (18"x24")
	WB	44.222					SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)
	WB	44.602					SIGN		EA	1	EXISTING SIGN	W11-10
	WB	44.682					ASSEMBLY	40	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	WB	44.787	44.950	CURVE 11	772	10	SIGNS					W1-8D (18"x24")
	WB	45.199					NO REPLACEMENT		EA	1	EXISTING SIGNS	W1-2L, W13-1P (REMOVE ONLY, NOT REPLACE)
	WB	45.259					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P
WB	45.538					SIGN		EA	1	EXISTING SIGN	S3-1	
WB	45.651	45.552	CURVE 12	945	12	SIGNS					W1-8D (18"x24")	
WB	45.991	46.104	CURVE 13	524	8	SIGNS					W1-8D (18"x24")	
WB	46.340					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P	
WB	46.562	46.371	CURVE 14	1053	13	SIGNS					W1-8D (18"x24")	
WB	46.909	47.065	CURVE 15	752	10	SIGNS					W1-8D (18"x24")	
WB	47.149					SIGN		EA	1	EXISTING SIGN	S3-1	
SEE D-30 SHEET FOR NEW SIGN QUANTITIES									1 LUMP SUM			

ADV PLQ SPACING >60	MPH :	140
ADV PLQ SPACING 50-60	MPH :	100
ADV PLQ SPACING 35-45	MPH :	80

SUMMARY OF QUANTITIES
SHEET 1 OF 6



DATE PREPARED
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 3

COUNTY
VAR.

JOB NO.
JSR0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

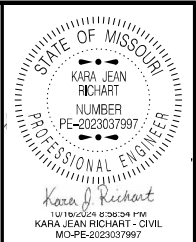


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ROUTE	DIRECTION	LOG MILE	LOG MILE	CURVE NAME	CURVE LENGTH (FT)	NEW SIGNS, CONTINUED			REMOVAL OF IMPROVEMENTS, CONTINUED			NEW & REMOVAL REMARKS	
						CHEVRONS	WARNING ASSEMBLY OR WARNING SIGN	SPEED PLAQUE MPH	REMOVAL UNIT	REMOVE TOTAL SIGNS	REMOVAL DESCRIPTION		
BARRY COUNTY													
39	SB	88.091								EA	1	EXISTING SIGN	W2-1 R/L COMBO
	SB	88.838								EA	1	EXISTING SIGN	W7-1
	SB	89.188								EA	1	EXISTING SIGN	S3-1
	SB	89.459								EA	1	EXISTING SIGN	S3-1
	SB	90.550								EA	1	EXISTING SIGNS	W12-2, (14' - 11' ON SHOULDER), REMOVE PLAQUE
	SB	90.651											W8-19
	SB	90.811								EA	1	EXISTING SIGN	W12-2A, (14'-11" ON BRIDGE)
	SB	91.488						35		EA	1	EXISTING ASSEMBLY	W1-10R w/ 2 sideroads, W13-1P, 3 x GB-1R
	SB	91.964						35		EA	1	EXISTING ASSEMBLY	W1-10L w/ 2 sideroads, W13-1P
	SB	92.001	92.175	CURVE 1	831	11							W1-8D (18"x24")
	SB	93.470	93.724	CURVE 2	1374	16							W1-8D (18"x24")
	SB	94.035	94.105	CURVE 3	523	8							W1-8D (18"x24")
	SB	94.113							40	EA	1	EXISTING ASSEMBLY	W1-2L, W13-1P
	SB	94.213	94.292	CURVE 4	421	7				EA	7	EXISTING SIGNS	W1-8D (18"x24")
	SB	94.290						40		EA	1	EXISTING ASSEMBLY	W1-4R, W13-1P
	SB	94.416	94.465	CURVE 4A	181	4				EA	3	EXISTING SIGNS	W1-8D (18"x24")
	SB	94.450							30	EA	1	EXISTING ASSEMBLY	W1-1R, W13-1P
	SB	94.550							30	EA	1	EXISTING ASSEMBLY	W1-5R, W13-1P
	SB	94.656	94.750	CURVE 5	515	8				EA	11	EXISTING SIGNS	W1-8D (18"x24")
	SB	94.807	94.878	CURVE 6	379	6				EA	4	EXISTING SIGNS	W1-8D (18"x24")
	SB	94.840								EA	1	EXISTING SIGN	S3-1
	SB	95.178								EA	1	EXISTING SIGN	W2-2 (RIGHT)
	SB	95.177	95.374	CURVE 7	1020	13				EA	13	EXISTING SIGNS	W1-8D (18"x24")
	SB	95.456								EA	1	EXISTING SIGN	W11-8 (REMOVE ONLY, NOT REPLACE)
	SB	95.628								EA	1	EXISTING SIGN	W2-2 (RIGHT)
	SB	15.668								EA	1	EXISTING SIGN	W2-2 (RIGHT)
	NB	15.776								EA	1	EXISTING SIGNS	W1-2R, W13-1P (REMOVE ONLY, NOT REPLACE)
	NB	15.915						30		EA	1	EXISTING ASSEMBLY	W1-5R, W13-1P
	NB	15.973								EA	1	EXISTING SIGN	W2-2 (LEFT)
	NB	16.132	16.330	CURVE 8	1385	16				EA	15	EXISTING SIGNS	W1-8D (18"x24")
	NB	16.495	16.541	CURVE 9	134	4				EA	7	EXISTING SIGNS	W1-8D (18"x24")
	NB	16.661	16.737	CURVE 10	463	7				EA	12	EXISTING SIGNS	W1-8D (18"x24")
	NB	16.761						40		EA	1	EXISTING ASSEMBLY	W1-2R, W13-1P
	NB	16.861						40		EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P
	NB	16.973	16.894	CURVE 11	450	7				EA	6	EXISTING SIGNS	W1-8D (18"x24")
	NB	17.260								EA	1	EXISTING SIGN	S3-1
	NB	17.450	17.276	CURVE 12	842	11				EA	9	EXISTING SIGNS	W1-8D (18"x24")
	NB	18.070	18.199	CURVE 13	717	10							W1-8D (18"x24")
	NB	19.071						35		EA	1	EXISTING ASSEMBLY	W1-10R w/ 2 sideroads, W13-1P
	NB	19.481						35		EA	1	EXISTING ASSEMBLY	W1-10L w/ 2 sideroads, W13-1P, 3 x GB-1R
	NB	19.595	19.769	CURVE 14	960	12				EA	11	EXISTING SIGNS	W1-8D (18"x24")
	NB	20.151								EA	1	EXISTING SIGNS	W12-2, (14' - 11' ON SHOULDER), REMOVE PLAQUE
	NB	20.302								EA	1	EXISTING SIGN	OM3-R
	NB	20.441								EA	1	EXISTING SIGN	OM3-R
	NB	20.444								EA	1	EXISTING SIGN	OM3-R
	NB	20.446								EA	1	EXISTING SIGN	W12-2A, (14'-11" ON BRIDGE)
	NB	20.535											W8-19
	NB	21.366	21.464	CURVE 15	531	8							W1-8D (18"x24")
	NB	21.746								EA	1	EXISTING SIGN	S3-1
	NB	23.053	23.238	CURVE 16	1027	13							W1-8D (18"x24")
	NB	23.205								EA	1	EXISTING SIGNS	W2-1 R/L COMBO
76	EB	67.484	67.603	CURVE 1	689	9				EA	13	EXISTING SIGNS	W1-8D (18"x24")
STONE COUNTY													
76	EB	81.714	81.823	CURVE 1	641	9				EA	11	EXISTING SIGNS	W1-8D (30"x36")
	EB	81.736								EA	1	EXISTING SIGN	W1-6 (72"x36")
176	EB	6.556								EA	1	EXISTING SIGN	OM3-R
	EB	6.635								EA	1	EXISTING SIGN	OM3-R
	EB	6.744								EA	1	EXISTING SIGN	OM3-R
	WB	25.791						30		EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P
	WB	25.870	26.055	CURVE 1	1001	13				EA	24	EXISTING SIGNS	W1-8D (18"x24")
	WB	25.972								EA	1	EXISTING SIGN	W11-8
	WB	25.878								EA	1	EXISTING SIGN	W1-6 (48"x24")
248	EB	41.054								EA	1	EXISTING SIGN	W3-1
	WB	14.686	14.777	CURVE 1	591	8							W1-8D (18"x24")

SEE D-30 SHEET FOR NEW SIGN QUANTITIES				1 LUMP SUM
ADV PLQ SPACING	>60	MPH	:	140
ADV PLQ SPACING	50-60	MPH	:	100
ADV PLQ SPACING	35-45	MPH	:	80

SUMMARY OF QUANTITIES
SHEET 2 OF 6



DATE PREPARED
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 3

COUNTY
VAR.

JOB NO.
JSR0099

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)

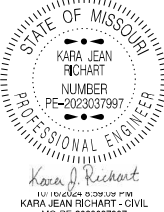
ROUTE	DIRECTION	LOG MILE	LOG MILE	CURVE NAME	CURVE LENGTH (FT)	NEW SIGNS, CONTINUED			REMOVAL OF IMPROVEMENTS, CONTINUED			NEW & REMOVAL REMARKS
						CHEVRONS	WARNING ASSEMBLY OR WARNING SIGN	SPEED PLAQUE MPH	REMOVAL UNIT	REMOVE TOTAL SIGNS	REMOVAL DESCRIPTION	
TANEY COUNTY												
176	EB	20.086										W11-8
	EB	20.214	20.309	CURVE 1	502	8	SIGNS		EA	1	EXISTING SIGN	W1-8D (18"x24")
	EB	20.524					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P
	EB	20.596	20.641	CURVE 2	236	5	SIGNS					W1-8D (18"x24")
	EB	20.730	20.805	CURVE 3	397	6	SIGNS					W1-8D (18"x24")
	EB	20.953	21.005	CURVE 4	275	5	SIGNS					W1-8D (18"x24")
	EB	21.161					SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)
	EB	21.267	21.322	CURVE 5	293	5	SIGNS					W1-8D (18"x24")
	EB	21.617	21.676	CURVE 6	314	6	SIGNS					W1-8D (18"x24")
	EB	21.814					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-3R, W13-1P
	EB	21.933	21.998	CURVE 7	345	6	SIGNS					W1-8D (18"x24")
	EB	21.960					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	21.978					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	22.058					ASSEMBLY	35	EA	1	EXISTING ASSEMBLY	W1-2R, W13-1P
	EB	22.118					SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)
	EB	22.341					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-2L, W13-1P
	EB	22.381	22.433	CURVE 8	273	5	SIGNS					W1-8D (18"x24")
	EB	22.820					ASSEMBLY	45	EA	1	EXISTING ASSEMBLY	W1-2L, W13-1P
	EB	22.839	22.888	CURVE 9	258	5	SIGNS					W1-8D (18"x24")
	EB	23.118					SIGN		EA	1	EXISTING SIGN	S3-1
	EB	23.158					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-1R, W13-1P
	EB	23.349					ASSEMBLY	35	EA	1	EXISTING ASSEMBLY	W1-5R, W13-1P
	EB	23.461	23.579	CURVE 10	622	9	SIGNS					W1-8D (18"x24")
	EB	23.900					SIGN		EA	1	EXISTING SIGN	W7-1
	EB	23.926	23.988	CURVE 11	326	6	SIGNS					W1-8D (18"x24")
	EB	24.159					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-3R, W13-1P
	EB	24.303	24.500	CURVE 12	1040	13	SIGNS					W1-8D (18"x24")
	EB	24.322					SIGN		EA	1	EXISTING SIGN	W3-1
	EB	24.722	24.878	CURVE 13	822	13	SIGNS					W1-8D (18"x24")
	EB	25.450					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-11L, W13-1P
	EB	25.491	25.721	CURVE 14	1214	18	SIGNS		EA	22	EXISTING SIGNS	W1-8D (18"x24")
	EB	25.520					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	25.680					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	26.018					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-5R, W13-1P
	EB	26.137	26.199	CURVE 15	325	7	SIGNS		EA	8	EXISTING SIGNS	W1-8D (18"x24")
	EB	26.160					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	26.167					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	26.338					SIGN		EA	1	EXISTING SIGN	S3-1
	EB	26.749	26.814	CURVE 16	345	7	SIGNS		EA	8	EXISTING SIGNS	W1-8D (18"x24")
	EB	26.777					SIGNS		EA	2	EXISTING SIGNS	2 x W1-6
	EB	27.103	27.178	CURVE 17	397	7	SIGNS					W1-8D (18"x24")
	EB	27.319					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P
	EB	27.382	27.453	CURVE 18	376	7	SIGNS					W1-8D (18"x24")
	EB	27.401					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	27.411					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	27.497	27.560	CURVE 19	335	7	SIGNS					W1-8D (18"x24")
	EB	27.523					SIGNS		EA	2	EXISTING SIGNS	2 x W1-6 (48"x24")
	EB	28.085					ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P
	EB	28.143	28.295	CURVE 20	804	13	SIGNS		EA	8	EXISTING SIGNS	W1-8D (18"x24")
	EB	28.164					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	28.183					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	28.222					SIGN		EA	1	EXISTING SIGN	W11-2
	EB	28.441					SIGN		EA	1	EXISTING SIGN	W11-8
	EB	28.573	28.818	CURVE 21	1291	19	SIGNS					W1-8D (18"x24")
	EB	29.169					ASSEMBLY	15	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P
	EB	29.229					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	29.246					SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")
	EB	29.300					ASSEMBLY	15	EA	1	EXISTING ASSEMBLY	W1-1R, W13-1P
	EB	29.340					SIGN		EA	1	EXISTING SIGN	W7-1
	EB	29.431					ASSEMBLY	10	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P
	EB	29.520					SIGNS		EA	2	EXISTING SIGNS	2 x W1-6
	WB	3.022					ASSEMBLY	10	EA	1	EXISTING ASSEMBLY	W1-1R, W13-1P
	WB	3.181					ASSEMBLY	15	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P
	WB	3.220					SIGN		EA	2	EXISTING SIGNS	2 x W1-6
	WB	3.300					ASSEMBLY	15	EA	1	EXISTING ASSEMBLY	W1-1R, W13-1P
	WB	3.660					SIGN		EA	1	EXISTING SIGN	W3-1
	WB	3.903					SIGN		EA	1	EXISTING SIGN	W11-8
	WB	4.072	4.292	CURVE 22	1160	17	SIGNS					W1-8D (18"x24")
	WB	4.183					SIGN		EA	1	EXISTING SIGN	W11-2

SEE D-30 SHEET FOR NEW SIGN QUANTITIES

1 LUMP SUM

ADV PLQ SPACING	>60	MPH	: 140
ADV PLQ SPACING	50-60	MPH	: 100
ADV PLQ SPACING	35-45	MPH	: 80

SUMMARY OF QUANTITIES
SHEET 3 OF 6



KARA JEAN RICHARD
NUMBER 2023037997
PROFESSIONAL ENGINEER
STATE OF MISSOURI

Kara J. Richard
KARA JEAN RICHARD - CIVIL
MO-PE-2023037997

DATE PREPARED
10/16/2024

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
VAR.

JOB NO.
JSR0099


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



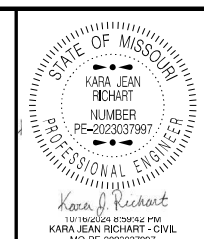
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

ROUTE	DIRECTION	LOG MILE	LOG MILE	CURVE NAME	CURVE LENGTH (FT)	NEW SIGNS, CONTINUED			REMOVAL OF IMPROVEMENTS, CONTINUED			NEW & REMOVAL REMARKS		
						CHEVRONS	WARNING ASSEMBLY OR WARNING SIGN	SPEED PLAQUE MPH	REMOVAL UNIT	REMOVE TOTAL SIGNS	REMOVAL DESCRIPTION			
TANEY COUNTY, CONTINUED														
160	EB	142.052						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	WB	181.239						ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-5L, W13-1P	
	WB	181.256	181.512	CURVE 6	349	7		SIGNS		EA	5	EXISTING SIGNS	W1-8D (18"x24")	
	WB	181.439	181.561	CURVE 7	443	8		SIGNS		EA	17	EXISTING SIGNS	W1-8D (18"x24")	
	WB	181.474						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	WB	181.507						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	WB	181.680	181.730	CURVE 8	367	7		SIGNS		EA	7	EXISTING SIGNS	W1-8D (18"x24")	
	WB	181.708						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	WB	181.711						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	WB	181.905	182.120	CURVE 9	889	14		SIGNS		EA	16	EXISTING SIGNS	W1-8D (18"x24")	
	WB	182.257	182.341	CURVE 10	571	10		SIGNS		EA	7	EXISTING SIGNS	W1-8D (18"x24")	
	WB	182.383						SIGN		EA	1	EXISTING SIGN	OM3-R	
	WB	182.534						ASSEMBLY	35	EA	1	EXISTING ASSEMBLY	W1-4L, W13-1P	
	WB	182.565						SIGN		EA	1	EXISTING SIGN	OM3-R	
	WB	182.779						SIGN		EA	1	EXISTING SIGN	OM3-R	
	WB	182.822						ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-5R, W13-1P	
	76	EB	97.794	97.968	CURVE 1	932	9		SIGNS					W1-8D (30"x36")
		WB	111.818	112.039	CURVE 1	848	9		SIGNS					W1-8D (30"x36")
WEBSTER COUNTY														
KK	NB	0.493						ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P	
	NB	0.572						SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)	
	NB	0.587	0.674	CURVE 2	609	9		SIGNS		EA	7	EXISTING SIGNS	W1-8D (18"x24")	
	NB	0.616						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	NB	0.651						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	NB	2.045						ASSEMBLY	25	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P	
	NB	2.147	2.239	CURVE 1	656	9		SIGNS		EA	7	EXISTING SIGNS	W1-8D (18"x24")	
	NB	2.172						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	NB	2.204						SIGN		EA	1	EXISTING SIGN	W1-6 (48"x24")	
	SB	11.398						ASSEMBLY	25	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P	
	SB	11.493						SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)	
	SB	12.993						ASSEMBLY	30	EA	1	EXISTING ASSEMBLY	W1-1L, W13-1P	
	SB	13.045						SIGN		EA	1	EXISTING SIGN	W2-2 (LEFT)	
	SEE D-30 SHEET FOR NEW SIGN QUANTITIES									1 LUMP SUM				

ADV PLQ SPACING >60	MPH : 140
ADV PLQ SPACING 50-60	MPH : 100
ADV PLQ SPACING 35-45	MPH : 80

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM



DATE PREPARED
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 3

COUNTY
VAR.

JOB NO.
JSR0099

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)

NOTES:
 SEE KMZ FILE FOR ALL CHEVRON SIGN LOCATIONS ONLY
 SEE QTY SHEETS, D-29, D-30'S FOR ALL SIGNS ON THE PROJECT

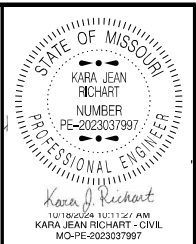


(R) & REPLACE EXISTING SIGNS
 265 S. BEGIN LOG 1.104
 END LOG 5.311

(R) & REPLACE EXISTING SIGNS
 39 S. BEGIN LOG 66.850
 END LOG 68.000

NOT TO SCALE


265 S/39 S CHEVRONS
 LAWRENCE COUNTY
 SPECIAL SHEET
 SHEET 1 OF 5

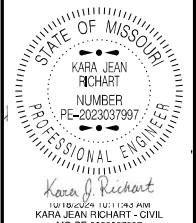


DATE PREPARED
 10/18/2024
 ROUTE
 VAR.
 DISTRICT
 SW
 COUNTY
 VAR.
 JOB NO.
 JSR0099
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

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





DATE PREPARED
10/18/2024

ROUTE	STATE
VAR .	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
VAR .

JOB NO.
JSR0099

CONTRACT ID.

PROJECT NO.

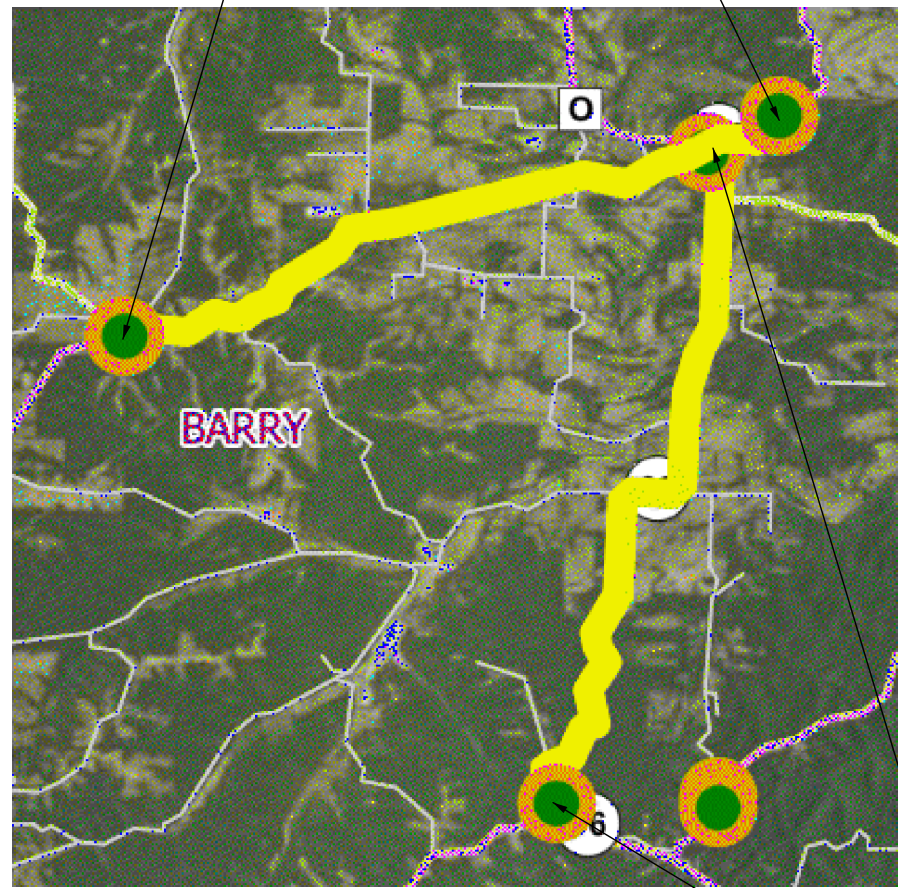
BRIDGE NO.

DATE	DESCRIPTION

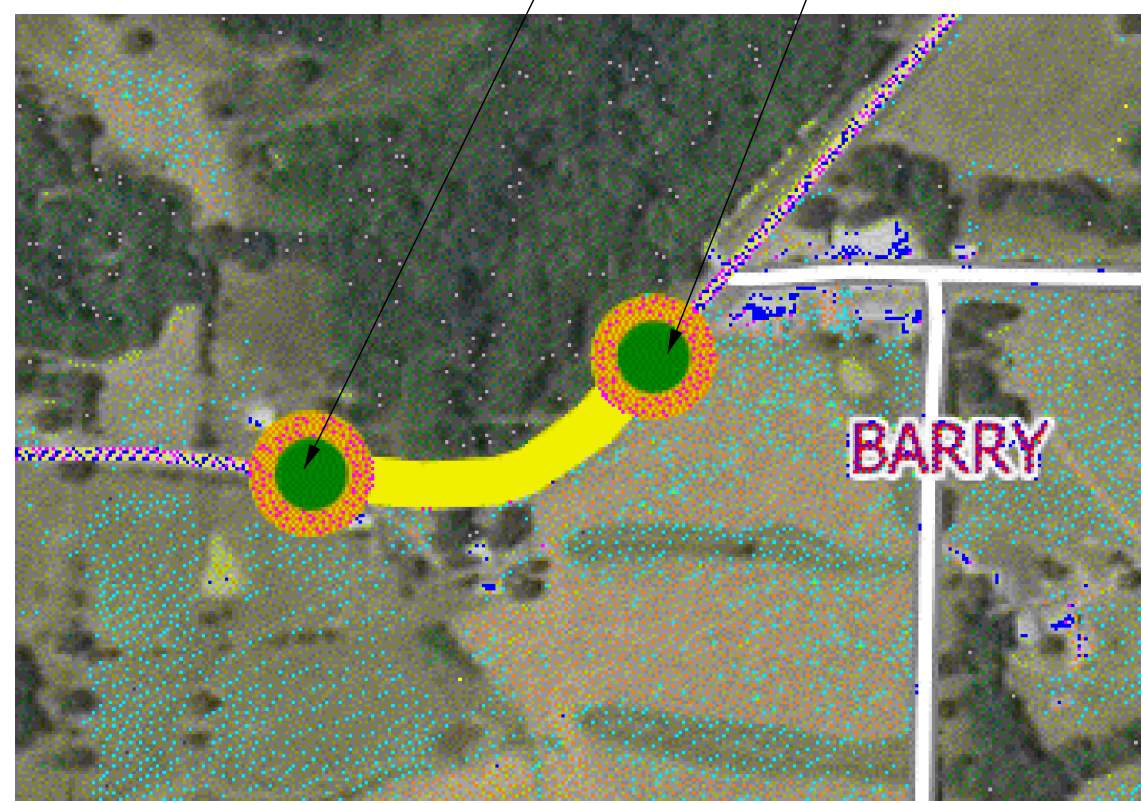
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

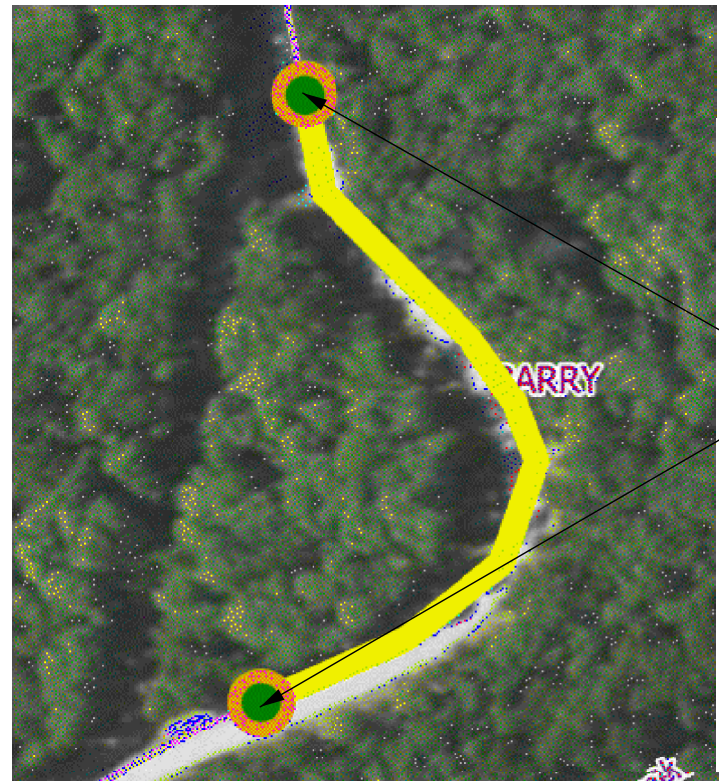
(R) & REPLACE EXISTING SIGNS
248 E BEGIN LOG 8.500
END LOG 15.000



(R) & REPLACE EXISTING SIGNS
MO 90 E BEGIN LOG 42.890
END LOG 43.020



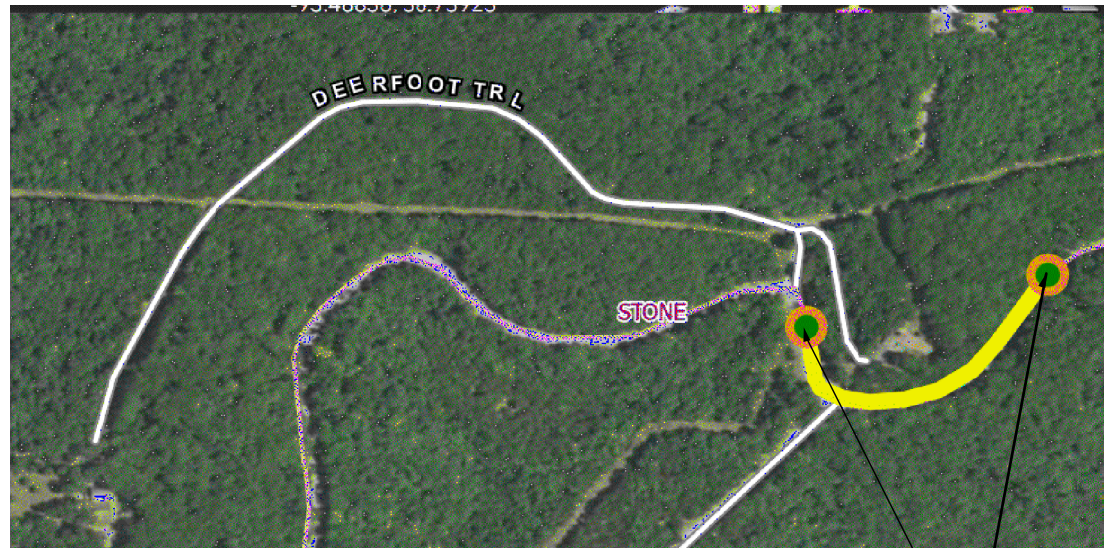
(R) & REPLACE EXISTING SIGNS
39 S BEGIN LOG 88.000
END LOG 95.659



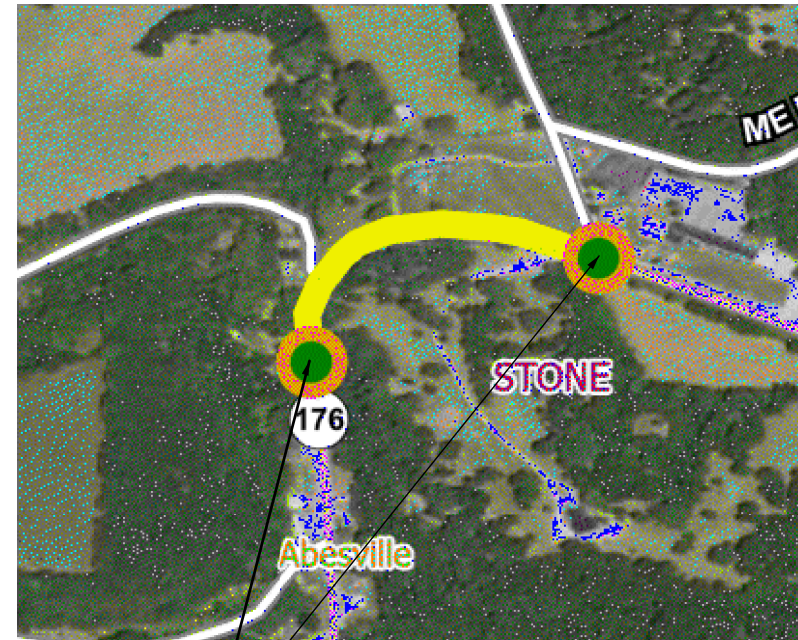
(R) & REPLACE EXISTING SIGNS
76 E BEGIN LOG 67.486
END LOG 67.626

248/39/90/76 CHEVRONS
SPECIAL SHEET
BARRY COUNTY
SHEET 2 OF 5

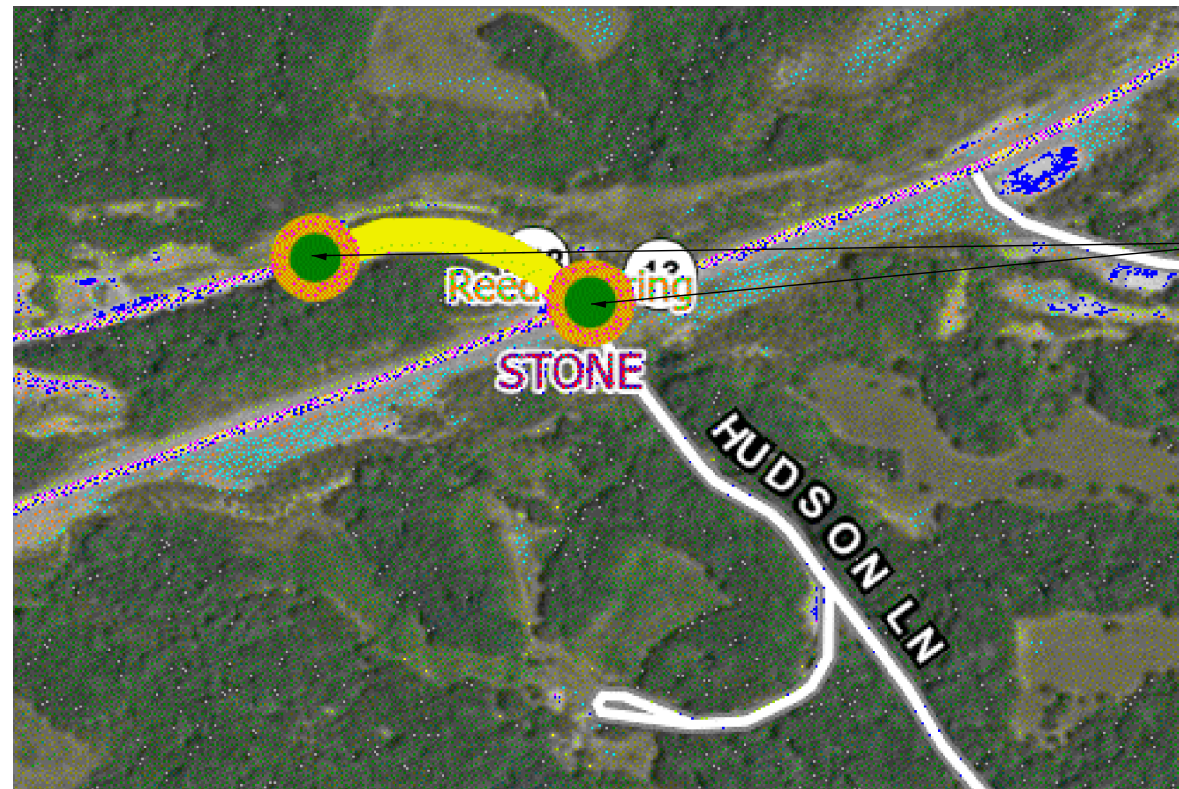
NOT TO SCALE



(R) & REPLACE EXISTING SIGNS
76 E BEGIN LOG 81.706
END LOG 81.886



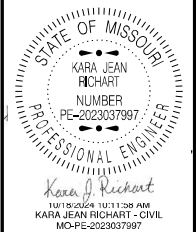
(R) & REPLACE EXISTING SIGNS
176 E BEGIN LOG 6.540
END LOG 6.770



(R) & REPLACE EXISTING SIGNS
248 E BEGIN LOG 41.031
END LOG 41.171

NOT TO SCALE

248/176/76 CHEVRONS
STONE COUNTY
SPECIAL SHEET
SHEET 3 OF 5



DATE PREPARED
10/18/2024

ROUTE
VAR . MO

DISTRICT
SW SHEET NO.
6

COUNTY
VAR .

JOB NO.
JSR0099


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)

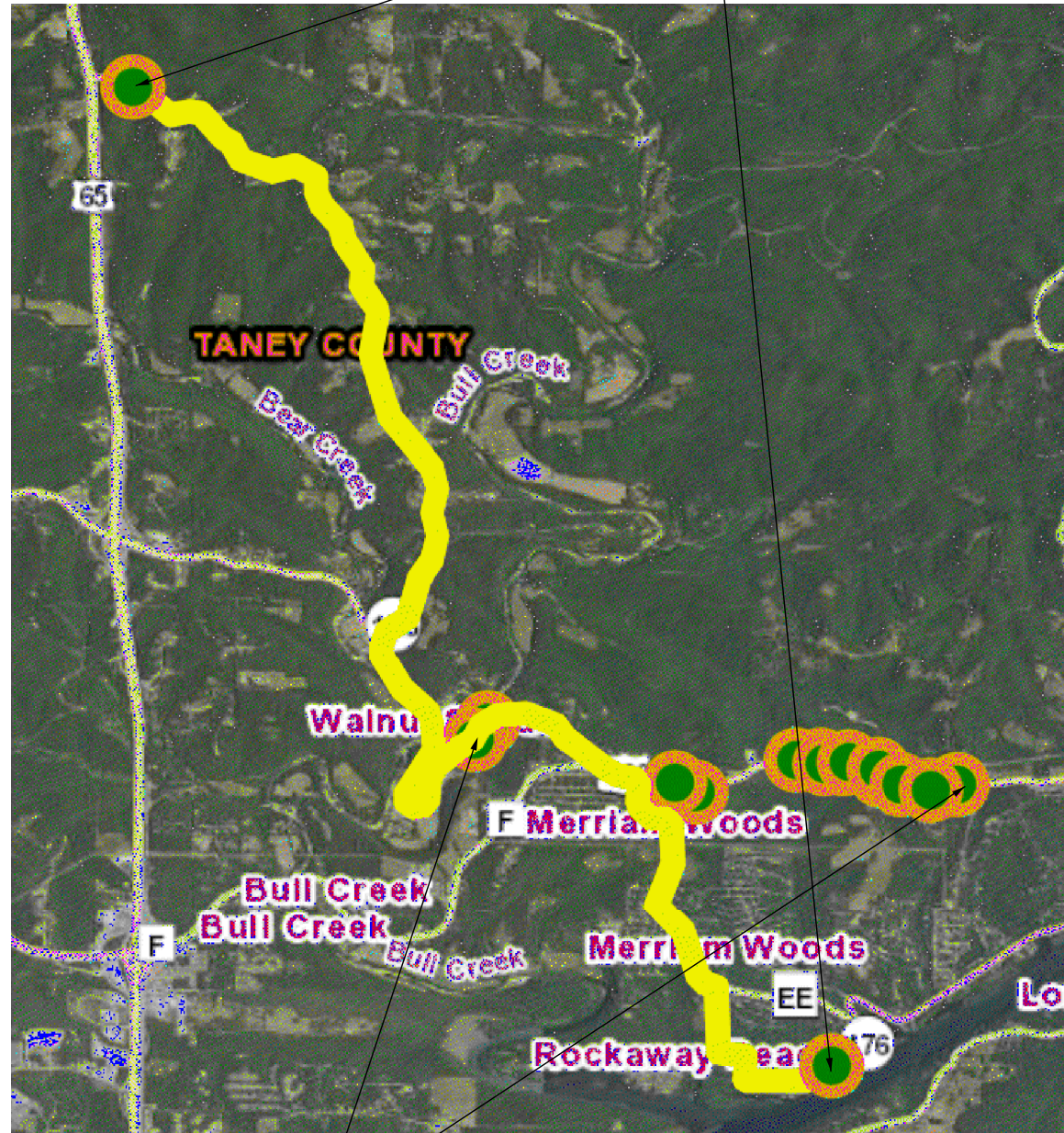
MO 76 W BEGIN LOG 111.829
END LOG 112.034



MO 76 E BEGIN LOG 97.794
END LOG 97.968

NOT TO SCALE

176 E BEGIN LOG 20.000
END LOG 30.000



- 160 E. BEGIN LOG 139.061
END LOG 139.191
- 160 E. BEGIN LOG 140.331
END LOG 140.471
- 160 E. BEGIN LOG 141.041
END LOG 141.201
- 160 E. BEGIN LOG 141.171
END LOG 141.301
- 160 E. BEGIN LOG 141.331
END LOG 141.551
- 160 E. BEGIN LOG 141.521
END LOG 141.681
- 160 E. BEGIN LOG 141.861
END LOG 142.011

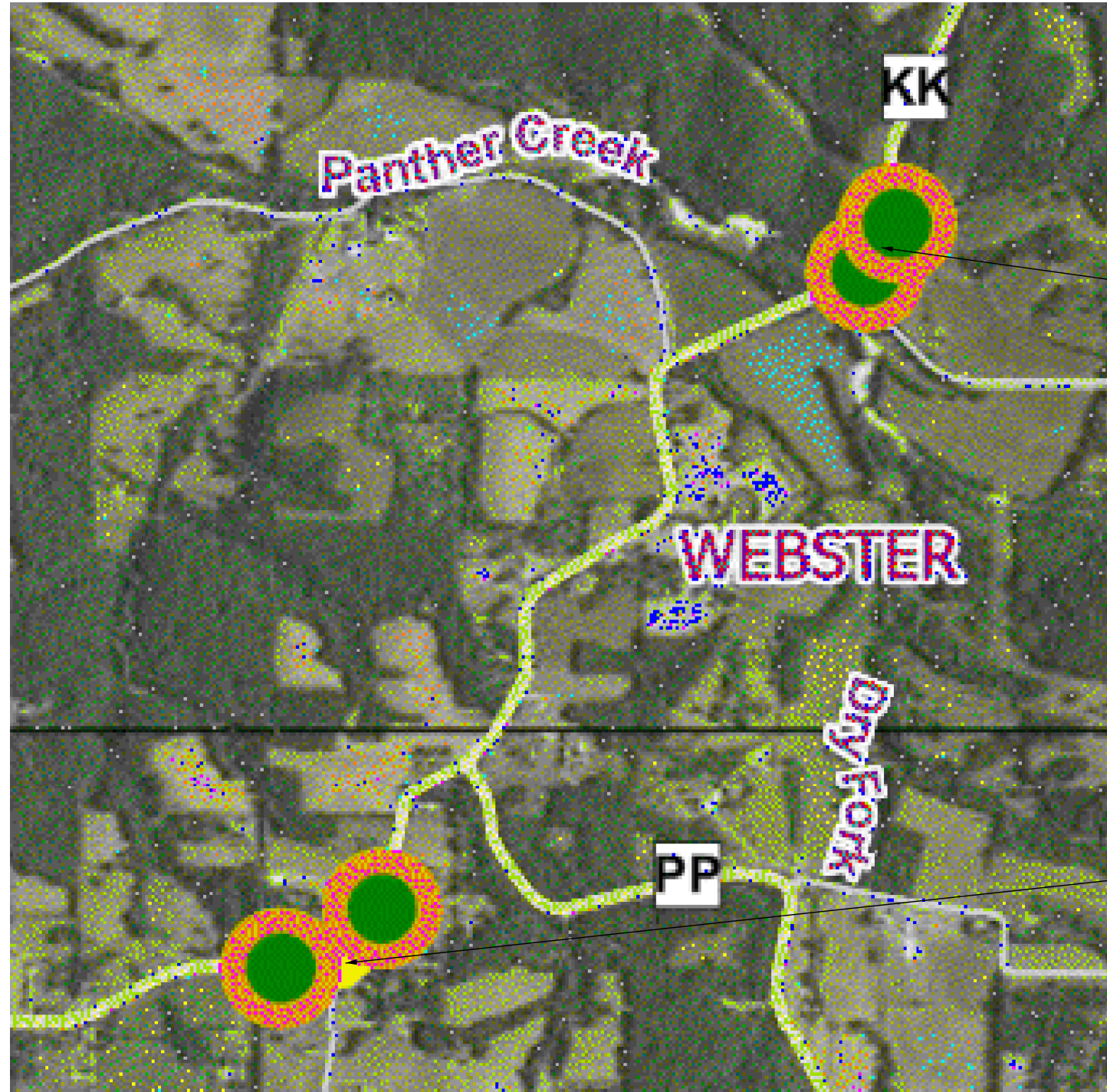
76/160/176 CHEVRONS
TANEY COUNTY
SPECIAL SHEET
SHEET 4 OF 5



DATE PREPARED
10/18/2024
ROUTE
VAR. MO
DISTRICT
SW SHEET NO.
7
COUNTY
VAR.
JOB NO.
JSR0099
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)

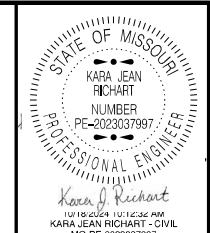


(R) & REPLACE EXISTING SIGNS
 RT KK S BEGIN LOG 11.500
 END LOG 11.600

(R) & REPLACE EXISTING SIGNS
 RT KK BEGIN LOG 13.000
 END LOG 13.200

NOT TO SCALE

KK CHEVRONS
 WEBSTER COUNTY
 SPECIAL SHEET
 SHEET 5 OF 5



DATE PREPARED
 10/18/2024

ROUTE VAR .	STATE MO
DISTRICT SW	SHEET NO. 8

COUNTY
 VAR .

JOB NO.
 JSR0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

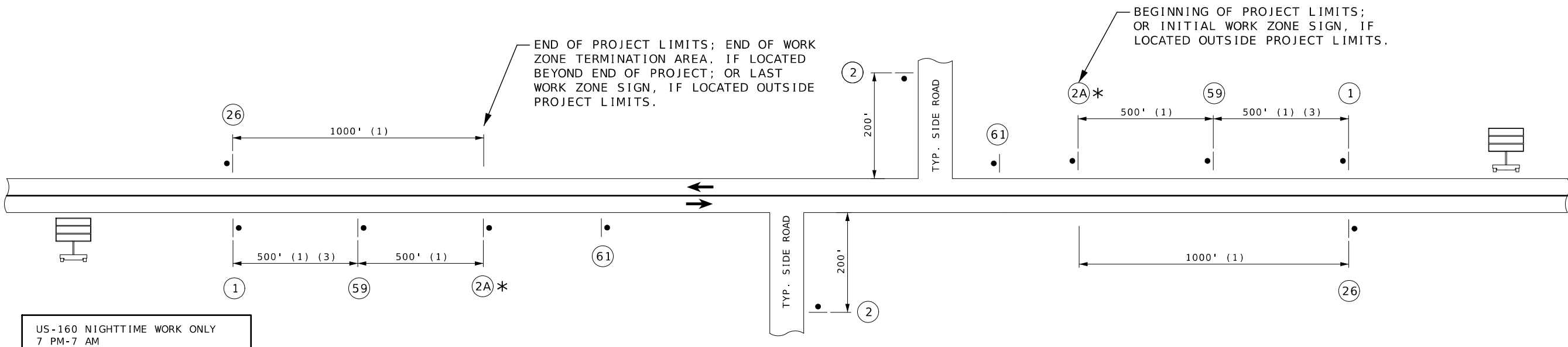
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.

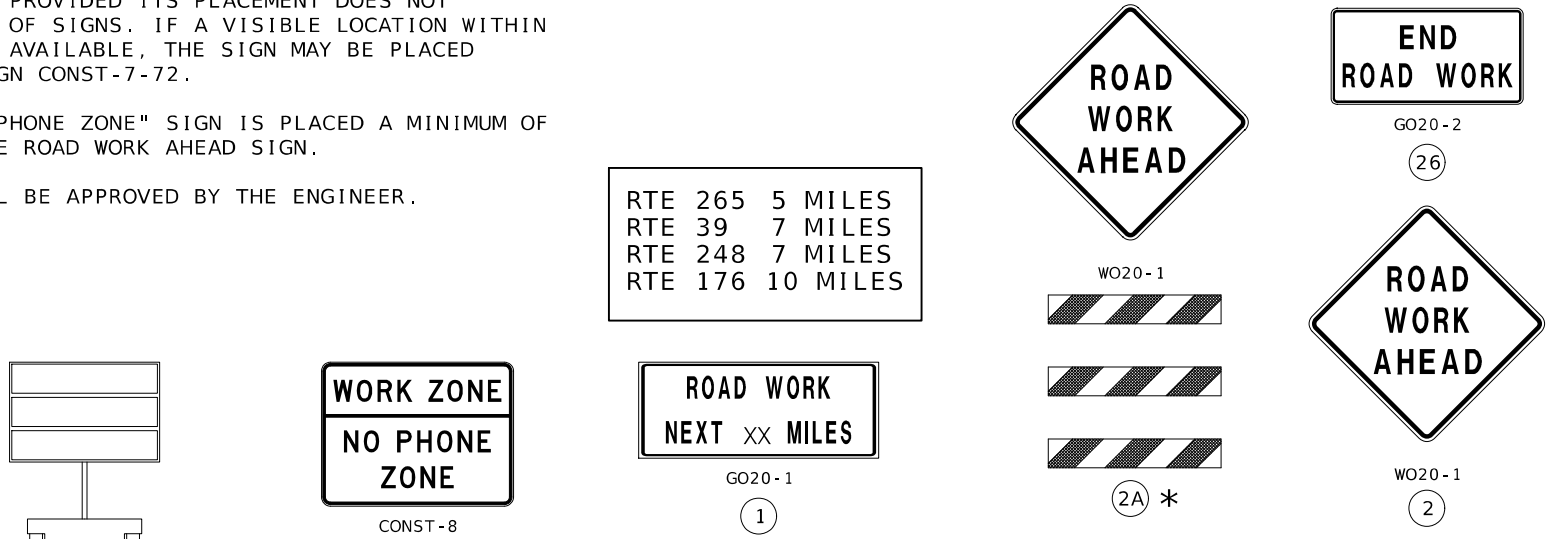


DATE PREPARED	10/16/2024
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	9
COUNTY	VAR.
JOB NO.	JSR0099
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TYPICAL BEGINNING AND END OF PROJECT
(UNDIVIDED HIGHWAY)

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.
- (3) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.



* SIGN 2A WITH AWRS MUST BE GROUND OR SKID MOUNTED.

NOT TO SCALE

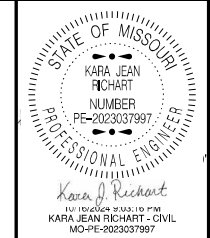
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.



DATE PREPARED
10/16/2024

ROUTE: VAR. STATE: MO
DISTRICT: SW SHEET NO.: 10

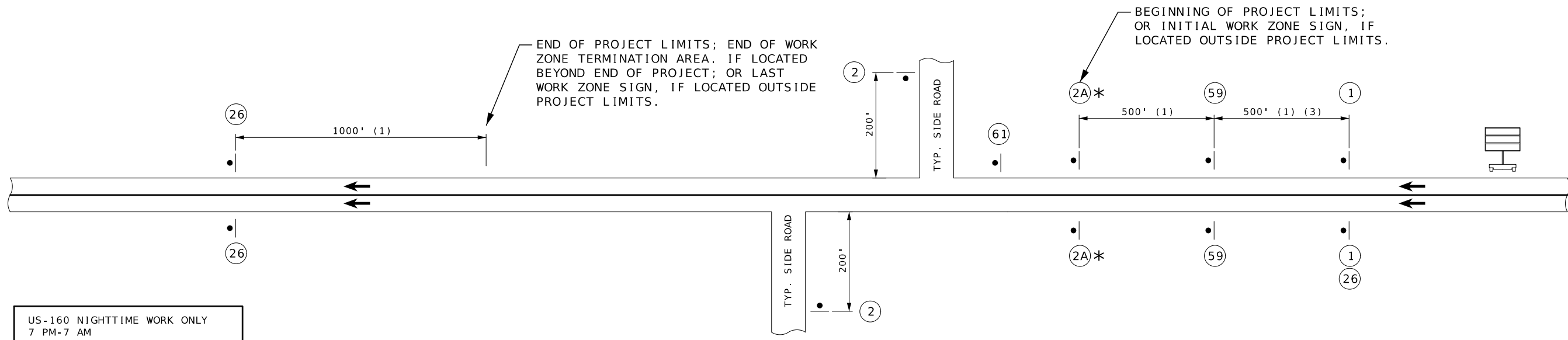
COUNTY: VAR.

JOB NO.: JSR0099

CONTRACT ID.

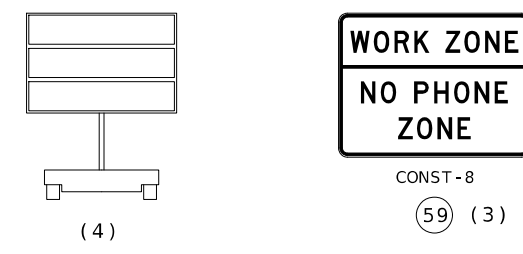
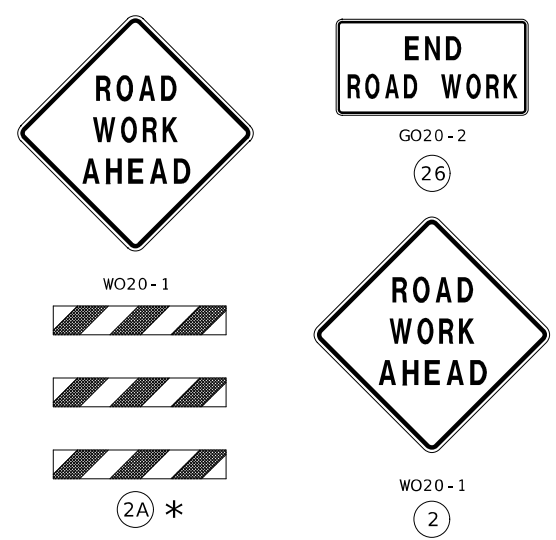
PROJECT NO.

BRIDGE NO.



TYPICAL BEGINNING AND END OF PROJECT
(DIVIDED HIGHWAY)

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.
- (3) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.



* SIGN 2A WITH AWRS MUST BE GROUND OR SKID MOUNTED.

NOT TO SCALE

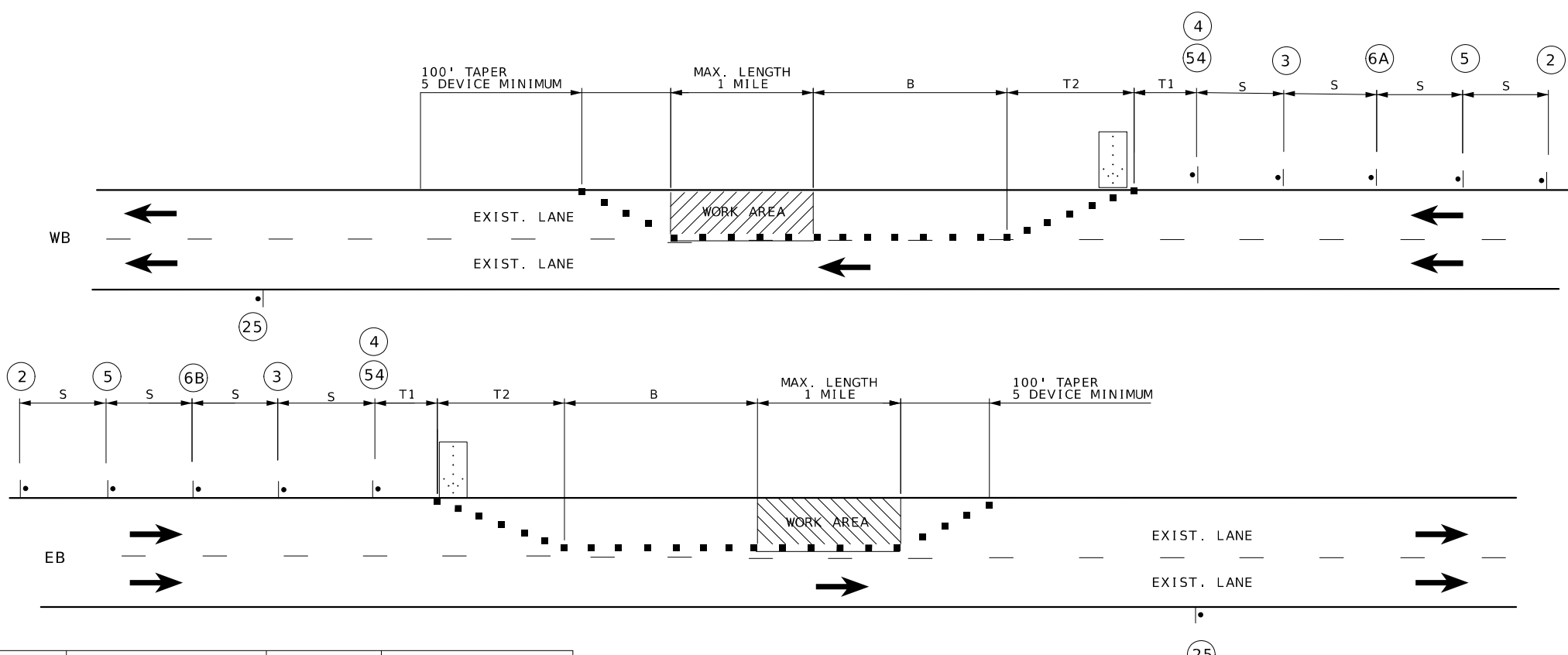
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OUTSIDE AND INSIDE LANE CLOSURE MULTILANE

REVISED: 8/27/2024



SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL BUFFER LENGTH (FT) (B)	CHANNELIZER SPACING (FT)	
		SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	200	70	245	250	35	40
40-45	350	150	540	360	40	80
50-55	500	185	660	495	50	80
60-70	1000	235	840	730	60	120

NOTES:

(1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
 (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
 (3) FOR LONG-TERM STATIONARY OPERATIONS, ADVANCE WARNING RAIL SYSTEM SHALL ENHANCE ALL SIGNS WITHIN THE FIRST ADVANCED WARNING AREA, ACCORDING TO EPG 616.2.9.
 (4) USE ONLY WHEN SPEED REDUCTION IS GREATER THAN 10 MPH BELOW NORMAL POSTED SPEED LIMIT. FURTHER GUIDANCE IN EPG 616.29 WORK ZONE SPEED LIMITS.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS, QUANTITY OF CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAXIMUM CHANNELIZER SPACING IN CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURE, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CHANNELIZERS, SIGNS, AND FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING IS ONE-HALF SPACING SHOWN IN TABLE.

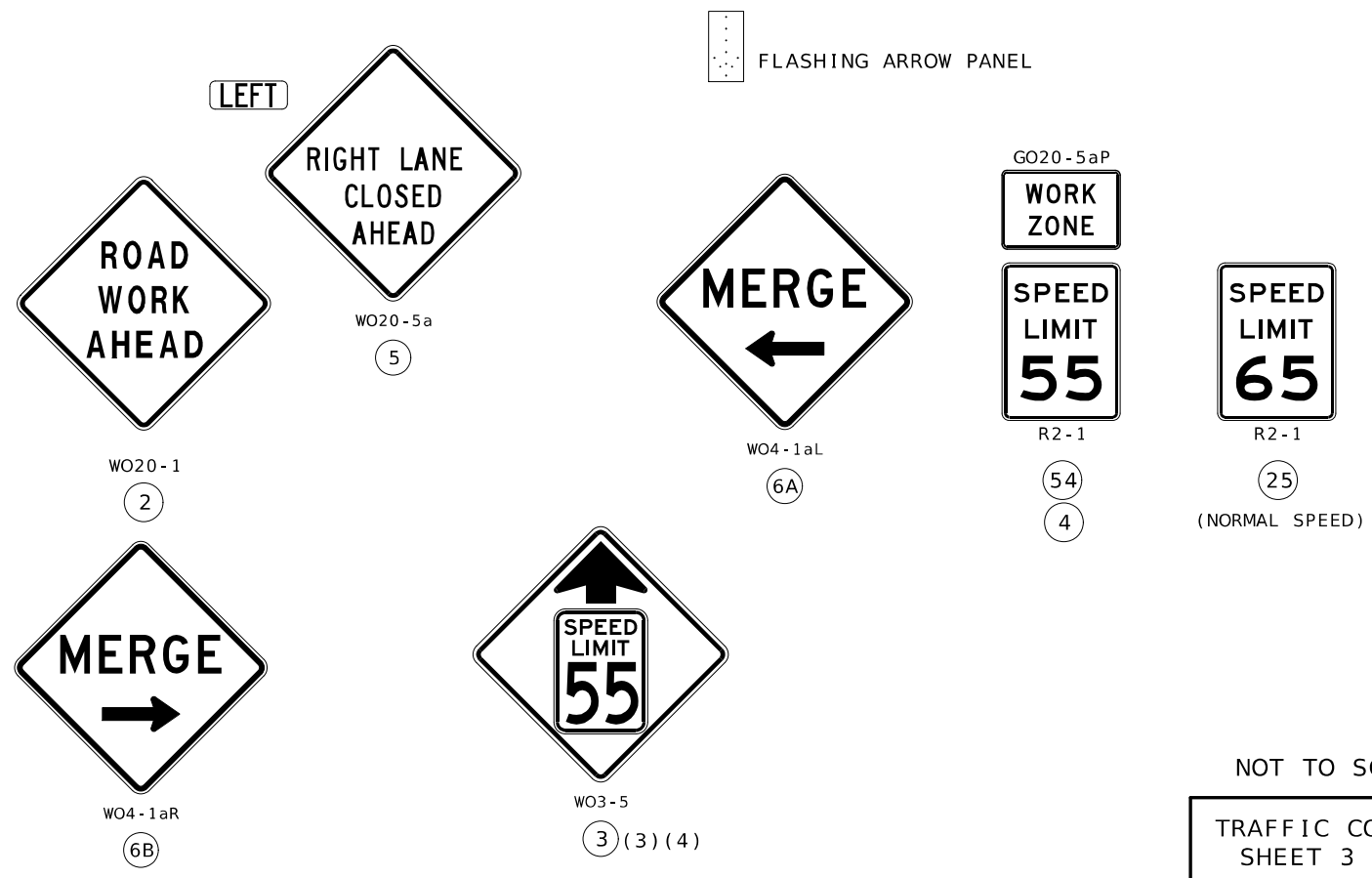
SPEED LIMIT SIGNS INDICATING NORMAL SPEED LIMIT SHALL BE INSTALLED AT END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", "NO PHONE ZONE", AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS. SEE JOB SPECIAL PROVISIONS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.



NOT TO SCALE
 TRAFFIC CONTROL SHEET 3 OF 9

STATE OF MISSOURI
 KARA JEAN RICHART
 NUMBER PE-2023037997
 PROFESSIONAL ENGINEER

Kara J. Richart
 1010 COLLETS BLVD STE 100
 KARA JEAN RICHART - CIVIL
 MO-PE-2023037997

DATE PREPARED: 10/16/2024
 ROUTE: VAR STATE: MO
 DISTRICT: SW SHEET NO.: 11
 COUNTY: VAR
 JOB NO.: JSR0099
 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)



W020-1
2



W020-4
7



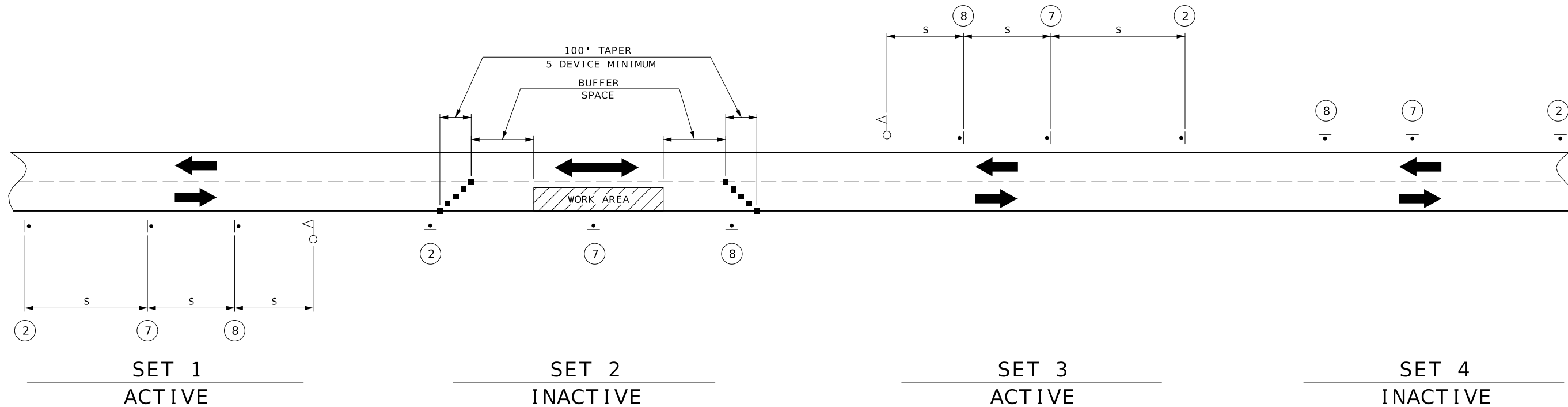
W020-7a
8



G020-4

53

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.



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).

NOTES:
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

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

US-160 NIGHTTIME WORK ONLY
7 PM-7 AM

SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	280
40-45	350	400
50-55	500	560
60-70	1000	840

SPACING NOTES:

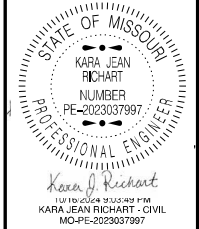
- SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

MOVING FLAGGER OPERATION
(UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 9



DATE PREPARED
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 12

COUNTY
VAR.

JOB NO.
JSR0099

CONTRACT ID.

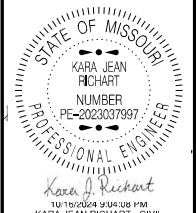
PROJECT NO.

BRIDGE NO.

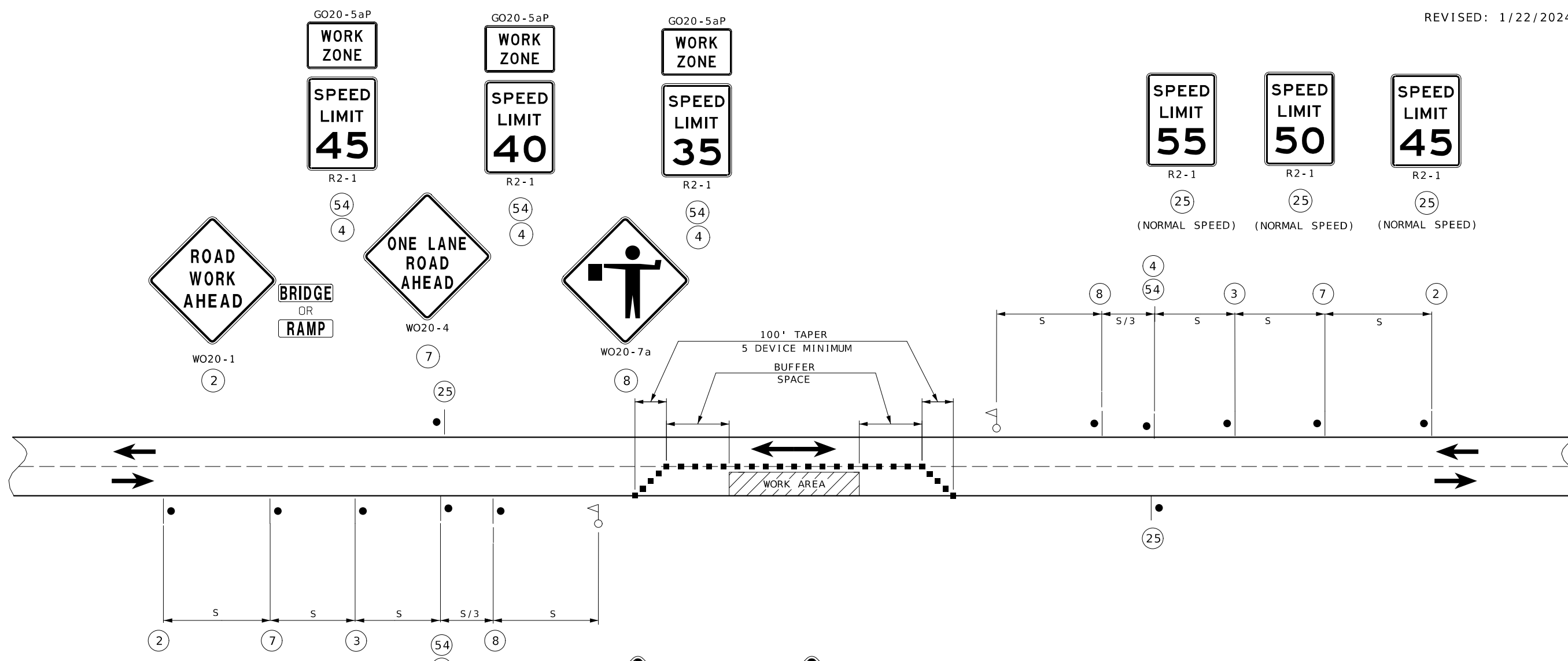
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



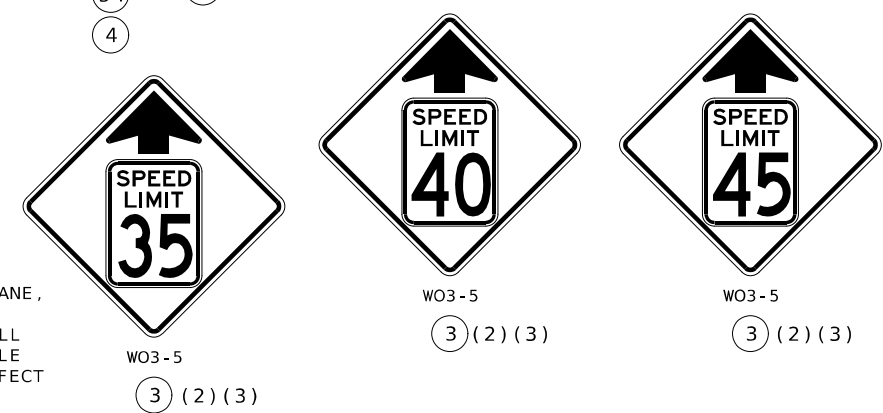
DATE PREPARED
10/16/2024
ROUTE STATE
VAR. MO
DISTRICT SHEET NO.
SW 13
COUNTY
VAR.
JOB NO.
JSR0099
CONTRACT ID.
PROJECT NO.
BRIDGE NO.



NOTES:
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.
FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.
(2) FOR LONG-TERM STATIONARY OPERATIONS, ADVANCE WARNING RAIL SYSTEM SHALL ENHANCE ALL SIGNS WITHIN THE FIRST ADVANCED WARNING AREA, ACCORDING TO EPG 616.2.9.
(3) USE ONLY WHEN SPEED REDUCTION IS GREATER THAN 10 MPH BELOW NORMAL POSTED SPEED LIMIT. FURTHER GUIDANCE IN EPG 616.29 WORK ZONE SPEED LIMITS.

- - CHANNELIZERS
- ⚠ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).



US-160 NIGHTTIME WORK ONLY
7 PM-7 AM

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING 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, AS APPROVED BY ENGINEER.

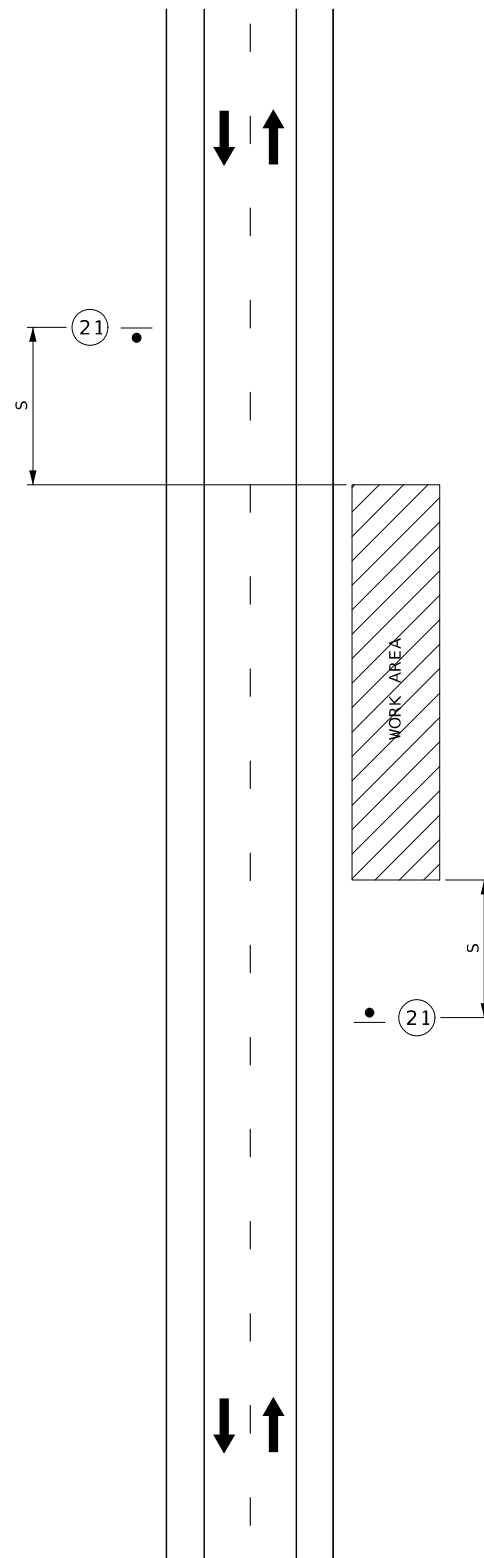
LANE CLOSURE USING FLAGGERS
(UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 9

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

WORK BEYOND THE SHOULDER (UNDIVIDED HIGHWAY)



US-160 NIGHTTIME WORK ONLY
7 PM-7 AM

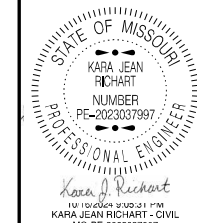
SPEED	SIGN SPACING (FT) (1)
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)
0-35	200
40-45	350
50-55	500
60-70	1000

SPACING NOTES:

- (1) SPACING BETWEEN SIGNS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.



W021-5
(21)



DATE PREPARED
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 14

COUNTY
VAR.

JOB NO.
JSR0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

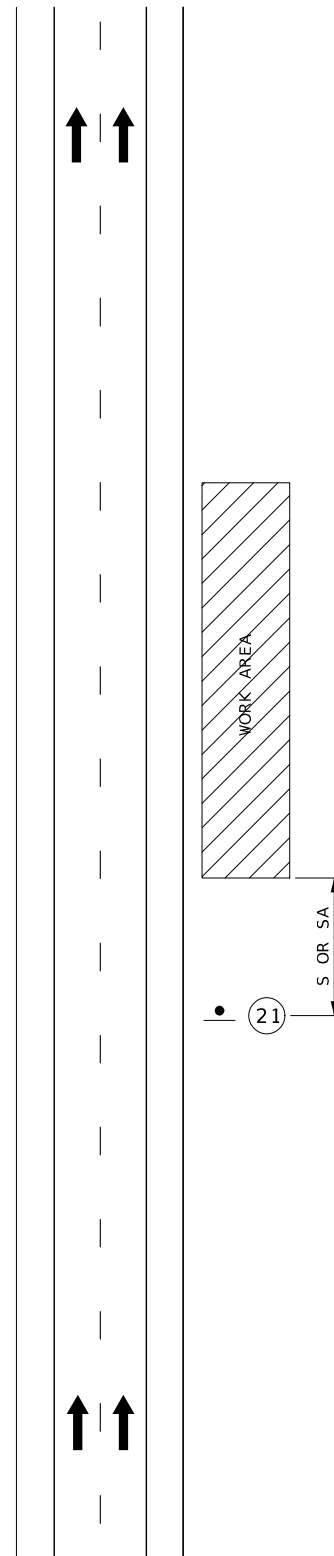
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

NOT TO SCALE

WORK BEYOND THE SHOULDER (DIVIDED HIGHWAY)



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

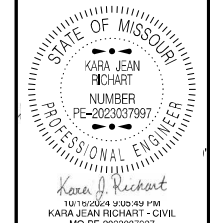
SPACING NOTES:

- (1) SPACING BETWEEN SIGNS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.



W021-5

(21)



DATE PREPARED
10/16/2024

ROUTE STATE
VAR. MO

DISTRICT SHEET NO.
SW 15

COUNTY
VAR.

JOB NO.
JSR0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

NOT TO SCALE

SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT OR NO ENCROACHMENT (UNDIVIDED HIGHWAY)

REVISED: 1/9/2024

SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL BUFFER LENGTH (FT) (B)	CHANNELIZER SPACING (FT)	
		SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER / WORK AREAS
0-35	200	70	245	280	35	40
40-45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

NOTES:

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
- (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
- (3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.
- (4) FOR LONG-TERM STATIONARY OPERATIONS, ADVANCE WARNING RAIL SYSTEM SHALL ENHANCE ALL SIGNS WITHIN THE FIRST ADVANCED WARNING AREA, ACCORDING TO EPG 616.2.9.
- (5) USE ONLY WHEN SPEED REDUCTION IS GREATER THAN 10 MPH BELOW NORMAL POSTED SPEED LIMIT. FURTHER GUIDANCE IN EPG 616.29 WORK ZONE SPEED LIMITS.



WO20-1

(2)



WO21-5

(21)



WO5-1

(3)

BRIDGE
OR
RAMP



WO7-3a

(43) *

* OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.



WO3-5

(3) (4) (5)



WO3-5

(3) (4) (5)



R2-1

(25)

(NORMAL SPEED)



R2-1

(25)

(NORMAL SPEED)



R2-1

(25)

(NORMAL SPEED)



GO20-5aP

(54)

(4)



GO20-5aP

(54)

(4)



GO20-5aP

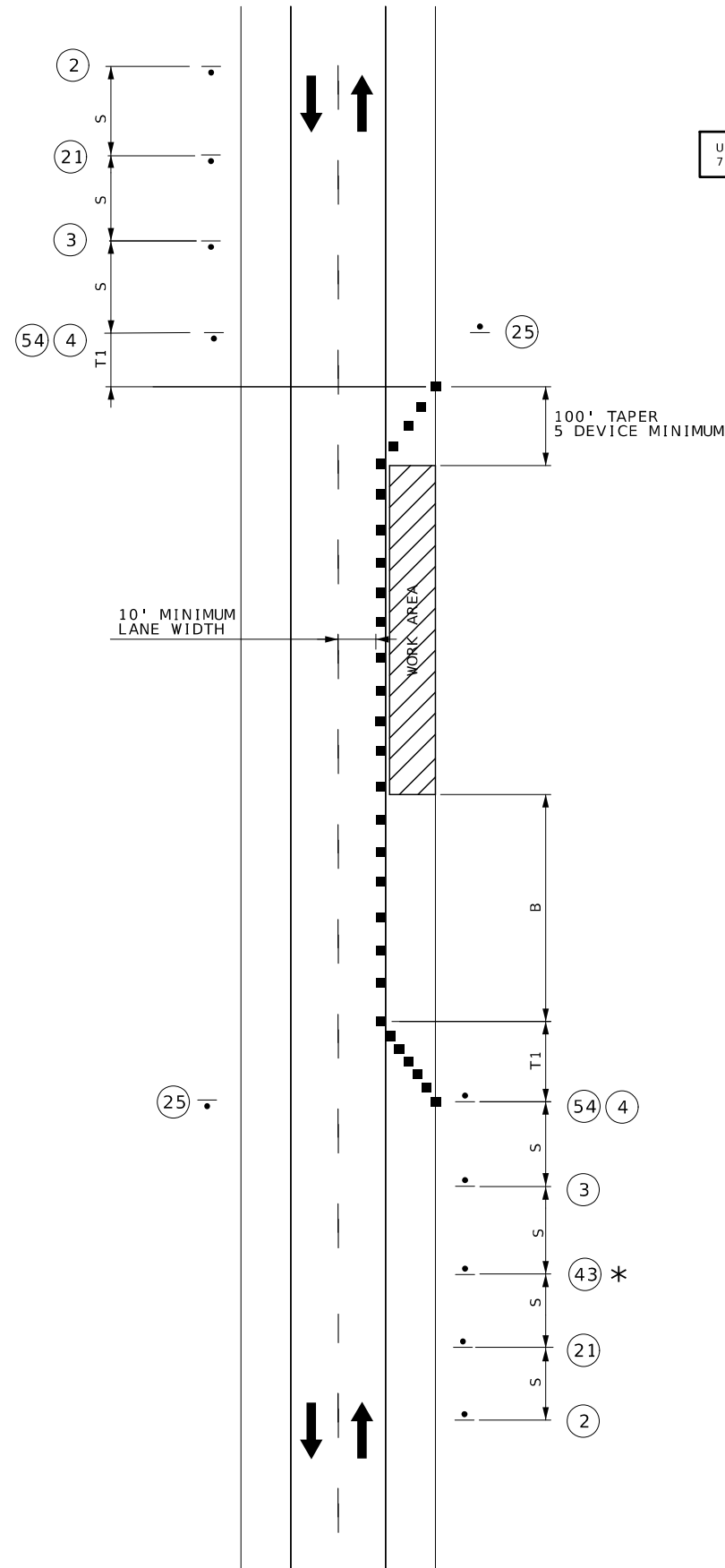
(54)

(4)



WO3-5

(3) (4) (5)



US-160 NIGHTTIME WORK ONLY
7 PM-7 AM

NOT TO SCALE

TRAFFIC CONTROL
SHEET 8 OF 9

KARA JEAN RICHART
PROFESSIONAL ENGINEER

DATE PREPARED: 10/16/2024

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	16

COUNTY: VAR.

JOB NO.: JSR0099

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)

SIDE ROADS ENTERING WORK ZONES

SPEED PERMANENT POSTED (MPH)	SIGN SPACING (FT.)	
	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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

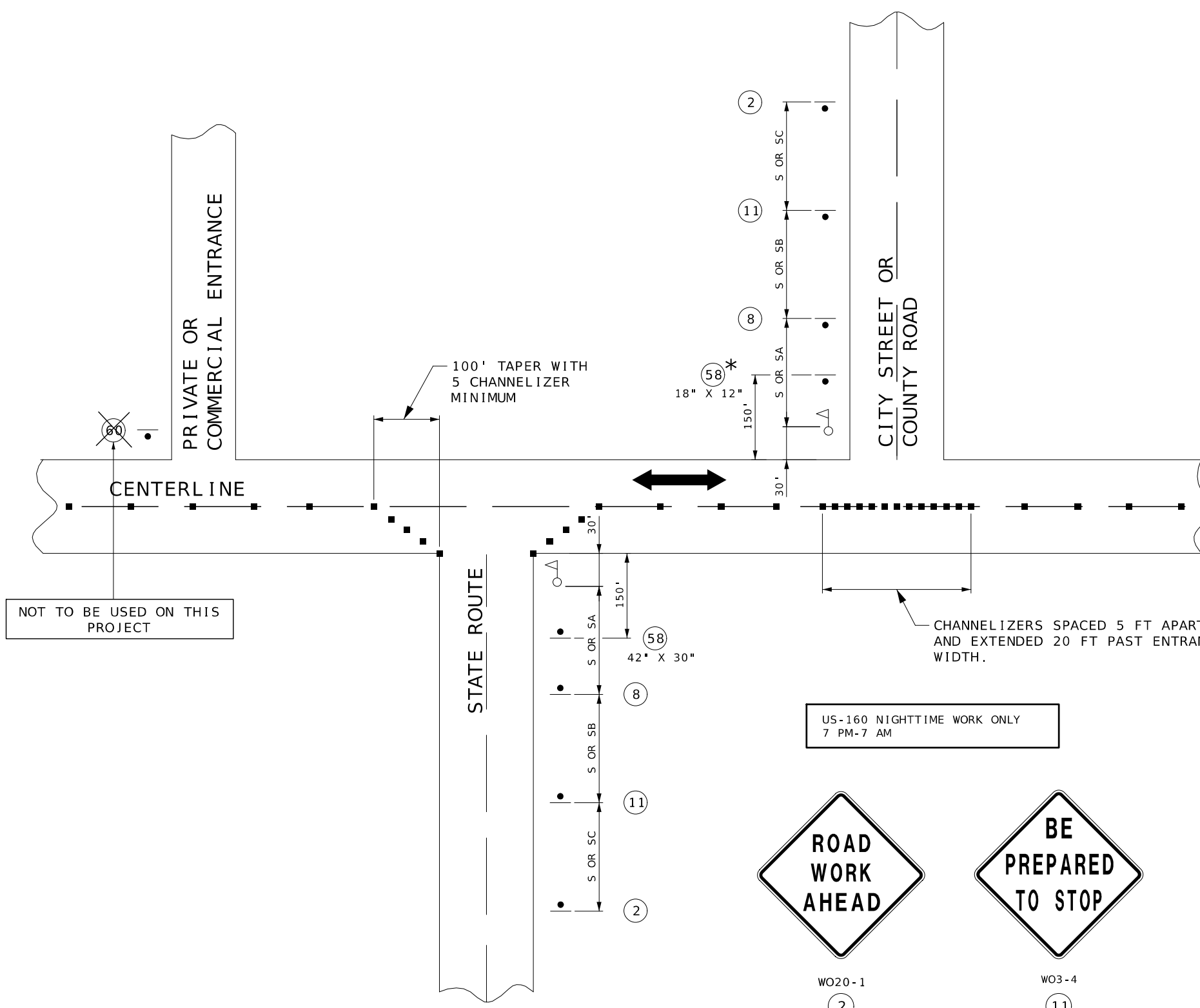
NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

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

■ - CHANNELIZERS

⚠ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).



NOT TO BE USED ON THIS PROJECT

NOT TO BE USED ON THIS PROJECT



6020-4a
58

SHALL BE USED ON ALL INTERSECTIONS.

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



24" X 18"
60

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.



WO20-1
2



WO3-4
11



WO20-7a
8

NOT TO SCALE

STATE OF MISSOURI
KARA JEAN RICHART
NUMBER PE-2023037997
PROFESSIONAL ENGINEER
Kara J. Richart
105 WEST CAPITOL JEFFERSON CITY, MO 65102
MO-PE-2023037997

DATE PREPARED 10/16/2024

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	17

COUNTY VAR.
JOB NO. JSR0099
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)



SIGNS					CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *					PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												REMARKS AND OTHER REQUIRED ITEMS	
902 SIGNAL SIGNS TABULATED ON D-37A SHEET						ITEM NO. 9031010 CY	POST DES. NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	2" X 3/8" BARS @ 2.55 LBS PER FT				ITEM NO. 9031250A LF	2 IN. POST						2.5 IN. POST					
NO. OF SIGNS	SIGN SIZE	LM	HORIZ CLEAR IF NOT STD	COUNTY	SIGN DTL. SHT. NO.													NO.	LGTH	TOTAL	TOTAL		NO. 1	NO. 2	TOTAL	DRIVEN 12-GA. ITEM NO. 9031270A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO. 1	POST NO. 2	TOTAL	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285
59	18"x24"	VAR		LAWRENCE																944	944		59	59	CHEVRONS									
350	18"x24"	VAR		BARRY																5600	5600		350	350	CHEVRONS									
21	18"x24"	VAR		STONE																336	336		21	21	CHEVRONS									
459	18"x24"	VAR		TANEY																7344	7344		459	459	CHEVRONS									
18	18"x24"	VAR		WEBSTER																288	288		18	18	CHEVRONS									
9	30"x36"	VAR		STONE																144	144		9	9	CHEVRONS (OVERSIZED)									
18	30"x36"	VAR		TANEY																288	288		18	18	CHEVRONS (OVERSIZED)									
12	ASSEMBLY	VAR		LAWRENCE																192	192		12	12	CURVE WARNING ASSEMBLES									
20	ASSEMBLY	VAR		BARRY	INCLUDES 2 EXTRA POSTS FOR 2 SHLDR BARRICADE ASSEMBLIES																		320	32	352		20	20	CURVE WARNING ASSEMBLES/BARRICADES					
1	ASSEMBLY	VAR		STONE																	16	16		1	1	CURVE WARNING ASSEMBLES								
37	ASSEMBLY	VAR		TANEY																	592	592		37	37	CURVE WARNING ASSEMBLES								
4	ASSEMBLY	VAR		WEBSTER																	64	64		4	4	CURVE WARNING ASSEMBLES								
7	36"x36"	VAR		LAWRENCE																	112	112		7	7	SINGLE SIGNS								
26	36"x36"	VAR		BARRY																	416	416		26	26	SINGLE SIGNS								
8	36"x36"	VAR		STONE																	128	128		8	8	SINGLE SIGNS								
20	36"x36"	VAR		TANEY																	320	320		20	20	SINGLE SIGNS								
3	36"x36"	VAR		WEBSTER																	48	48		3	3	SINGLE SIGNS								
3	12"x36"	VAR		LAWRENCE																						OBJECT MARKERS								
3	12"x36"	VAR		BARRY																						OBJECT MARKERS								
3	12"x36"	VAR		STONE																						OBJECT MARKERS								
3	12"x36"	VAR		TANEY																						OBJECT MARKERS								
2	12"x72"	VAR		BARRY																						WATER GUAGES								
1	48"x24"	VAR		STONE																						ARROW BOARDS								
42	48"x24"	VAR		TANEY																						ARROW BOARDS								
4	48"x24"	VAR		WEBSTER																						ARROW BOARDS								
1	72"x36"	VAR		STONE																						ARROW BOARD (OVERSIZED)								
SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS / LOG MILES																																		
SUBTOTAL																											SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS / LOG MILES							
TOTAL																											SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS / LOG MILES							

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
 ** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

NOM. SIZE (IN.)	WEIGHT		STUB LENGTH	FOOTING		CONCRETE C.Y.
	LBS/FT	LBS/IN		DIA.	DEPTH	
2 1/2	5.79	0.48	4'- 3/4"	12"	4-6"	0.13
3	7.58	0.63	4'- 3/4"	12"	4-6"	0.13
4	10.79	0.90	5'- 3/4"	18"	5-6"	0.36

POST DES. NO.	NOM. SIZE	POST			DIA.	FOOTING																			
		WEIGHT		STUB LENGTH		LEVEL GROUND				6:1 GRADE				4:1 GRADE				3:1 OR 2:1 GRADE							
		LBS/FT	LBS/IN			DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.								
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17												
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54												
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78												
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45												
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52												
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65												

DESCRIPTION DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



Kara J. Richard
10116 ZIGLER #102-34-PRR
KARA JEAN RICHART - CIVIL
MO-PE-2023037997

STANDARD SIGN ASSEMBLIES												SIGN SUMMARY																				
SIGN NUMBER	LOG MILE	COUNTY	TYPE										STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET																
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH													SIZE (sq. ft.)	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A												
			W1-8D 18"x24"	W1-8D 30"x36"	W1-2L 36"x36"	W1-2R 36"x36"	W1-1R 36"x36"	W1-1L 36"x36"	W1-5L 36"x36"	W1-3R 36"x36"	W13-1P 24"x24"	W1-6 48"x24"									W1-10R 36"x36"	W1-10L 36"x36"	GB-1R 36"x36"	W1-4L 36"x36"								
	VAR	LAWRENCE	59		2	4						12		1						1				4	W1-8D (18"x24")	907	3		2721			
	VAR	BARRY	350		2	2	1		4		2				2									6	3	W1-8D (30"x36")	27	7.5		202.5		
	VAR	STONE	21	9					1																	W1-2L	7	9		63		
	VAR	TANEY	459	18	3	3	5		6	4				39												W1-2R	9	9		81		
	VAR	WEBSTER	18						4					4												W1-1R	6	9		54		
	TOTAL		907	27	7	9	6	11	10	4	14	44	1	2	1	2	6	8								W1-1L	11	9		99		
																										W1-5L	10	9		90		
																										W1-3R	4	9		36		
																										W13-1P (50 MPH)	14	4		56		
																										W1-6 (48"x24")	44	8		352		
																										W1-10R	1	9		9		
																										W1-10R w/ 2 sideroads	2	9		18		
																										W1-10L	1	9		9		
																										W1-10L w/ 2 sideroads	2	9		18		
																										GB-1R	6	8		48		
																										W1-4L	8	9		72		
																										W2-2	17	9		153		
																										S3-1	14	9		126		
																										W3-1	8	9		72		
																										W1-4R	3	9		27		
																										W11-8	7	9		63		
																										W11-10	2	9		18		
																										W1-5R	8	9		72		
																										W1-6 (72"x36")	1	18		18		
																										W7-1	2	9		18		
																										W1-11L	1	9		9		
																										W13-1P (45 MPH)	9	4		36		
																										W13-1P (40 MPH)	7	4		28		
																										W13-1P (35 MPH)	11	4		44		
																										W13-1P (30 MPH)	25	4		100		
																										W13-1P (25 MPH)	3	4		12		
																										W13-1P (15 MPH)	4	4		16		
																										W13-1P (10 MPH)	2	4		8		
																										W12-2A (14'-11")	2	14		28		
																										OM3-R	10	3		30		
																										W8-19	2	6		12		
																										R1-1	2	16	32			
																										W4-4P	2	4.5		9		
																										W12-2	2	9		18		
																										W10-2	2	9		9		
	TOTAL		2	2	10	2	2	2	2	2																						

SEE QUANTITY SHEET & KMZ FOR EXACT SIGN LOCATIONS / LOG MILES

* ORANGE, YELLOW & YELLOW/GREEN

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DESCRIPTION	DATE

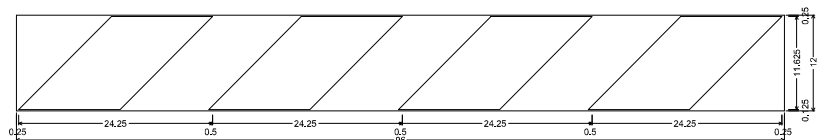
DATE PREPARED 10/16/2024
 ROUTE VAR. STATE MO
 DISTRICT SW SHEET NO. 19
 COUNTY VAR.
 JOB NO. JSR0099
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

SIGN NO.	GB-1R
LOG MILE	91.478
ROADWAY	39 SB
COUNTY	BARRY

SIGN NO.	GB-1R
LOG MILE	19.481
ROADWAY	39 NB
COUNTY	BARRY

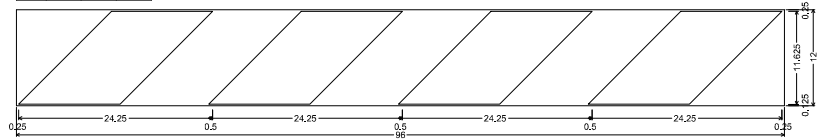
SIGN NO.	W0-1L W/2 SIDEROADS
LOG MILE	91.964
ROADWAY	39 SB
COUNTY	BARRY

SIGN NO.	W0-1L W/2 SIDEROADS
LOG MILE	19.481
ROADWAY	39 NB
COUNTY	BARRY



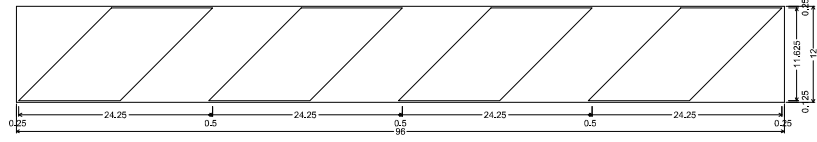
GB-1R STF-STRUCTURAL FLUORESCENT:
No border, Yellow;
Table of letter and object lifts

0.250	24.000	47.750	71.500
-------	--------	--------	--------



GB-1R STF-STRUCTURAL FLUORESCENT:
No border, Yellow;
Table of letter and object lifts

0.250	24.000	47.750	71.500
-------	--------	--------	--------

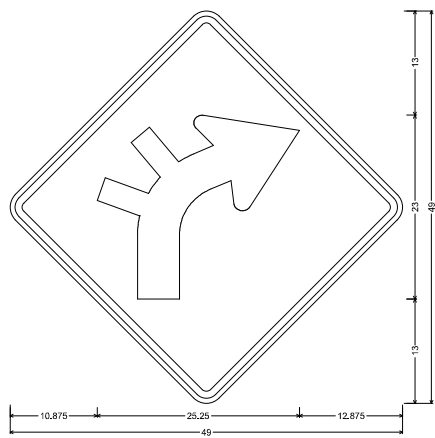


GB-1R STF-STRUCTURAL FLUORESCENT:
No border, Yellow;
Table of letter and object lifts

0.250	24.000	47.750	71.500
-------	--------	--------	--------

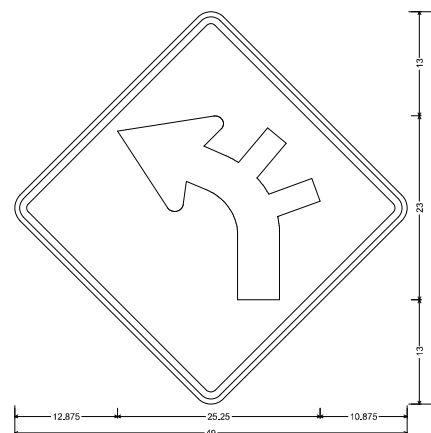
SIGN NO.	W0-1R W/2 SIDEROADS
LOG MILE	91.488
ROADWAY	39 SB
COUNTY	BARRY

SIGN NO.	W0-1R W/2 SIDEROADS
LOG MILE	19.071
ROADWAY	39 NB
COUNTY	BARRY



SPECIAL SHF-FLAT SHEET FLUORESCENT:
36.000" across sides 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Yellow;
Table of letter and object lifts

16.875

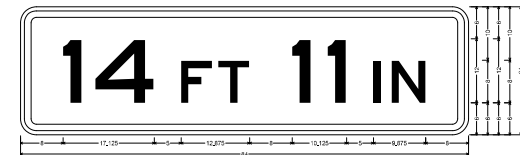


SPECIAL SHF-FLAT SHEET FLUORESCENT:
36.000" across sides 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Yellow;
Table of letter and object lifts

12.875

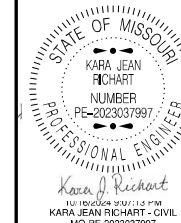
SIGN NO.	W12-2a
LOG MILE	90.821
ROADWAY	39 SB
COUNTY	BARRY

SIGN NO.	W12-2a
LOG MILE	90.841
ROADWAY	39 SB
COUNTY	BARRY



SPECIAL SHF-FLAT SHEET FLUORESCENT:
36.000" across sides 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Yellow;
Table of letter and object lifts

12.875



DATE PREPARED
10/16/2024
ROUTE STATE
VAR. MO
DISTRICT SHEET NO.
SW 22

COUNTY
VAR.
JOB NO.
JSR0099
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)

