MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY HENRY/ST. CLAIR COUNTY

DESIGN DESIGNATION

ROUTE C - OVER TEBO CREEK
A.A.D.T. - 2025 = 1,277
T = 14.10%
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

ROUTE 7 - OVER BIG CREEK
A.A.D.T. - 2025 = 7,667
T = 20.50%
V = 70 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

ROUTE 7 - BIG CR OVERFLOW 2
A.A.D.T. - 2025 = 7,667
T = 20.50%
V = 70 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

ROUTE 7 - OVER FIELDS CREEK
A.A.D.T. - 2025 = 11,121
T = 16.60%
V = 70 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

ROUTE 13 NB - OVER US 54
A.A.D.T. - 2025 = 6,375
T = 31.80%
V = 65 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

ROUTE 13 SB - OVER US 54
A.A.D.T. - 2025 = 6,685
T = 30.80%
V = 65 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

ROUTE 13 - OVER COON CREEK
A.A.D.T. - 2025 = 6,375
T = 31.80%
V = 65 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

ROUTE 13 - OVER PANTHER CREEK
A.A.D.T. - 2025 = 6,836
T = 27.10%
V = 65 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

NO NEW R/W REQUIRED

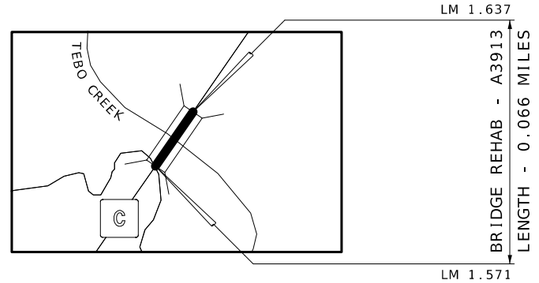
CONVENTIONAL SYMBOLS
(USED IN PLANS)

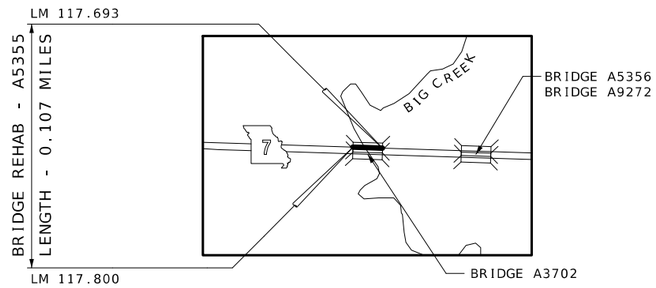
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-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

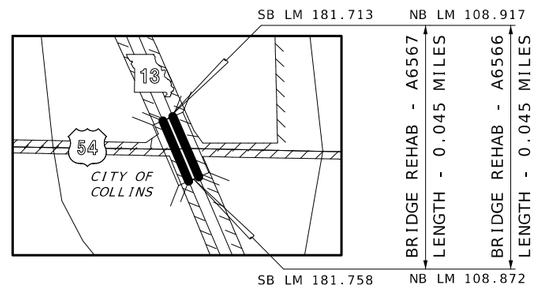
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

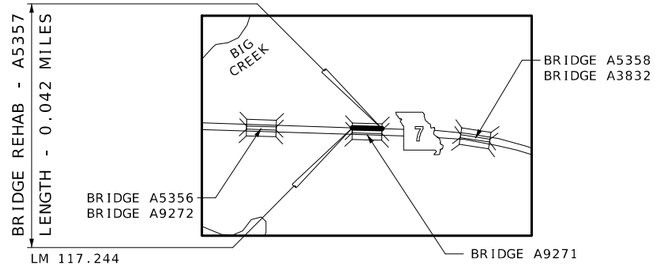


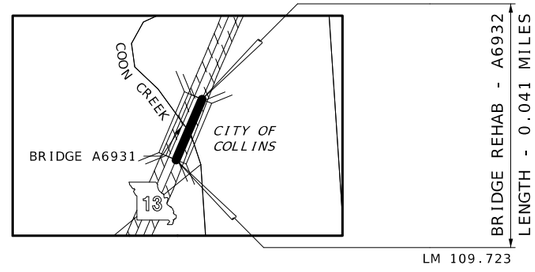
KEY MAP
LOCATION OF HENRY/ST. CLAIR COUNTY

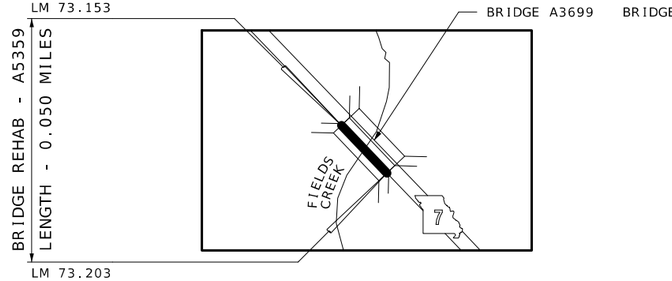


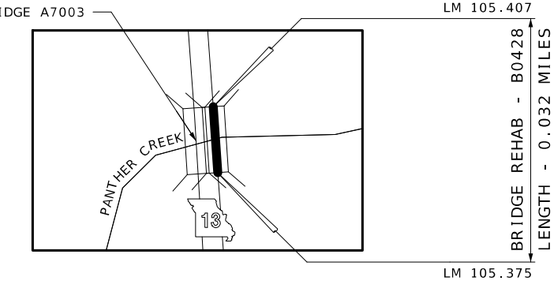












THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY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

NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (7 SHEETS)	2
QUANTITIES (QU) (2 SHEET)	3
TRAFFIC CONTROL SHEETS (TC)	4-12
BRIDGE DRAWINGS (B)	
BRIDGES	1-4

LENGTH OF PROJECT
LOG MILES FROM 2025 ARAN

ROUTE C - OVER TEBO CREEK

BEGINNING OF PROJECT	LM.	1.571
END OF PROJECT	LM.	1.637
APPARENT LENGTH		348.480 FEET

ROUTE 7 - OVER BIG CREEK

BEGINNING OF PROJECT	LM.	117.693
END OF PROJECT	LM.	117.800
APPARENT LENGTH		564.960 FEET

ROUTE 7 - BIG CR OVERFLOW 2

BEGINNING OF PROJECT	LM.	117.202
END OF PROJECT	LM.	117.244
APPARENT LENGTH		221.760 FEET

ROUTE 7 - OVER FIELDS CREEK

BEGINNING OF PROJECT	LM.	73.153
END OF PROJECT	LM.	73.203
APPARENT LENGTH		264.000 FEET

ROUTE 13 NB - OVER US 54

BEGINNING OF PROJECT	LM.	108.872
END OF PROJECT	LM.	108.917
APPARENT LENGTH		237.600 FEET

ROUTE 13 SB - OVER US 54

BEGINNING OF PROJECT	LM.	181.713
END OF PROJECT	LM.	181.758
APPARENT LENGTH		237.600 FEET

ROUTE 13 - OVER COON CREEK

BEGINNING OF PROJECT	LM.	109.723
END OF PROJECT	LM.	109.764
APPARENT LENGTH		216.480 FEET

ROUTE 13 - OVER PANTHER CREEK

BEGINNING OF PROJECT	LM.	105.375
END OF PROJECT	LM.	105.407
APPARENT LENGTH		168.960 FEET

TOTAL CORRECTIONS	00.000 FEET
NET LENGTH OF PROJECT	2,259.840 FEET
STATE LENGTH	0.428 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.000 ACRES

STATE OF MISSOURI
CAMERON SCODY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
Digitally signed by CAMERON SCODY - CIVIL MO-PE-2021019715
Date: 2026.10.26 10:44:44 -05'00'

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	1

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

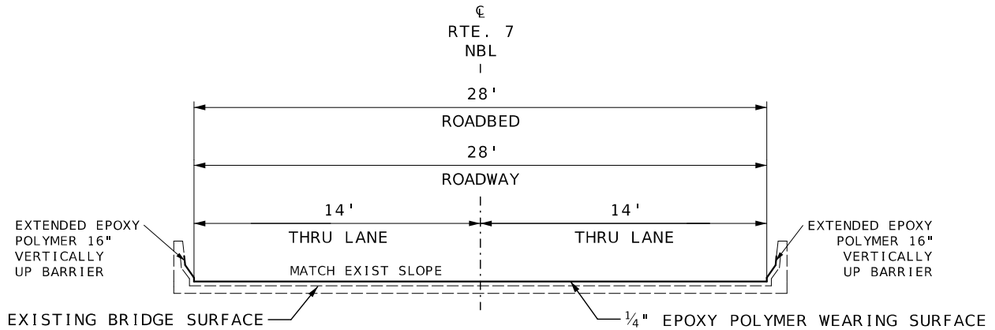
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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



ROUTE C - BRIDGE A3913

LOG MILE 1.571 TO LOG MILE 1.637

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 7

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Digitally signed by CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

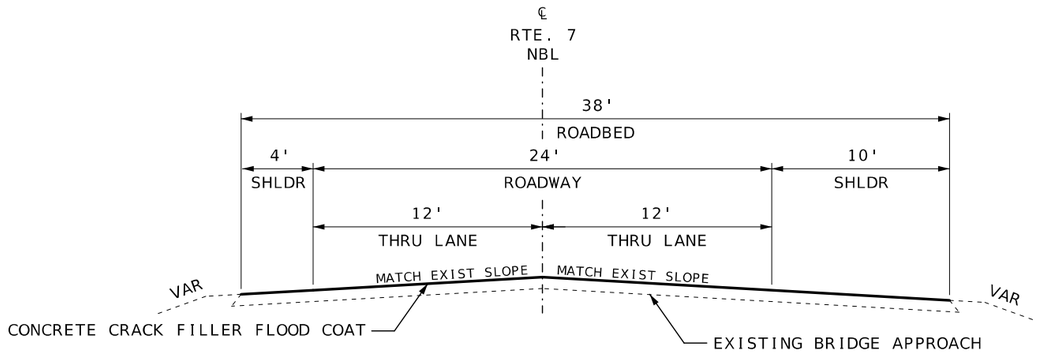
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

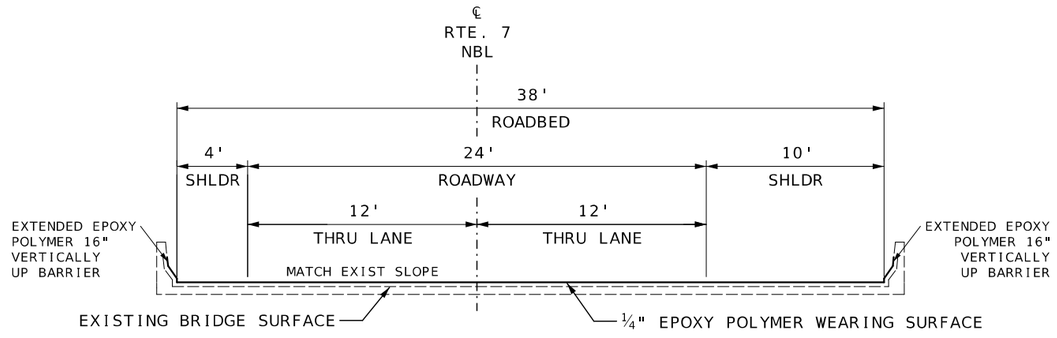
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



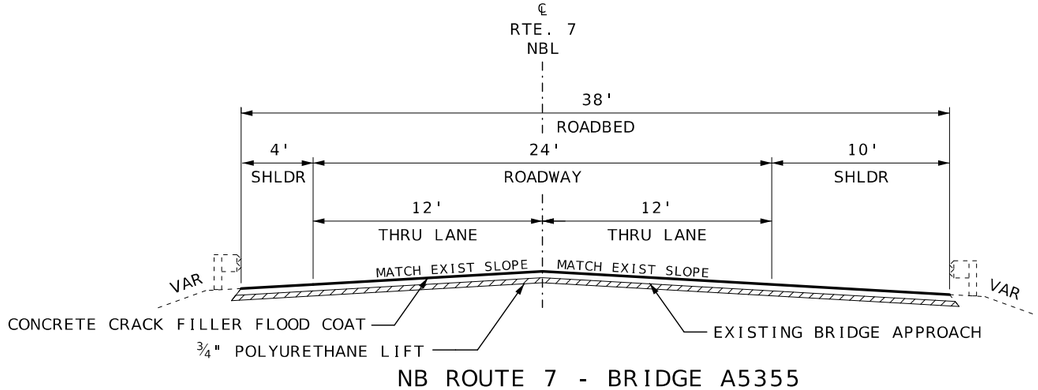
NB ROUTE 7 - BRIDGE A5355

LOG MILE 117.693 TO LOG MILE 117.698



NB ROUTE 7 - BRIDGE A5355

LOG MILE 117.698 TO LOG MILE 117.795



NB ROUTE 7 - BRIDGE A5355

LOG MILE 117.795 TO LOG MILE 117.800

NOT TO SCALE

TYPICAL SECTIONS
SHEET 2 OF 7

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
Licensed by: 44
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

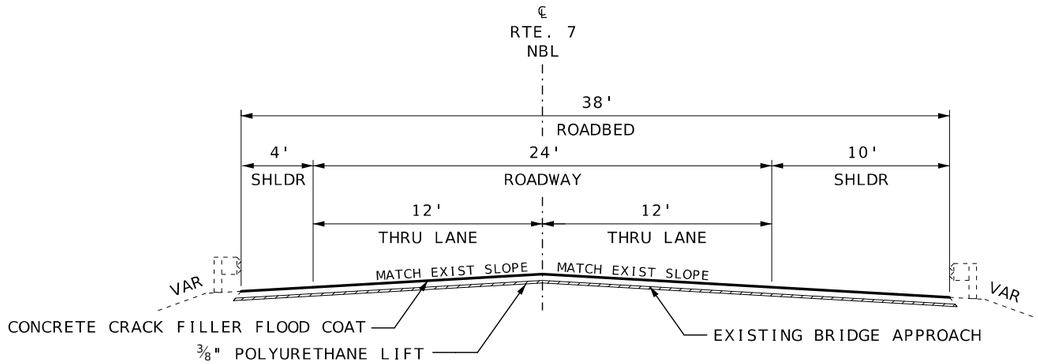
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PROJECT NO.

BRIDGE NO.

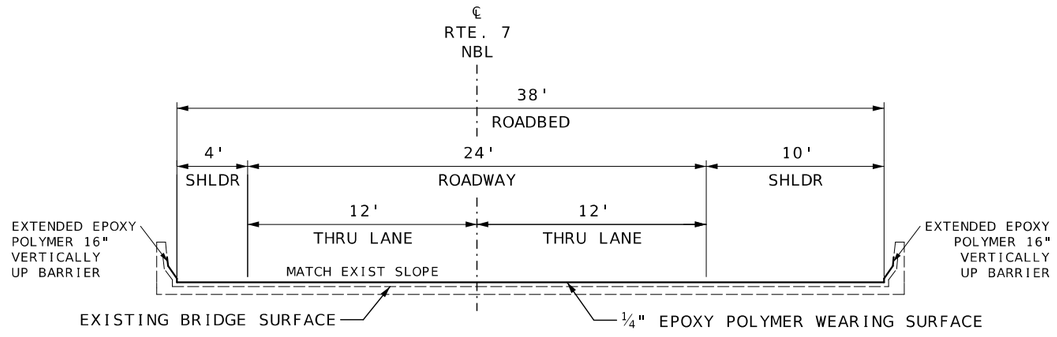
DESCRIPTION	DATE

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



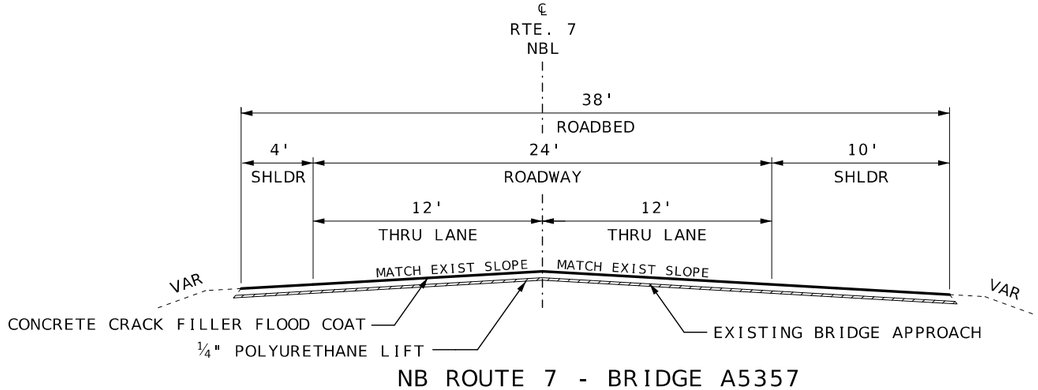
NB ROUTE 7 - BRIDGE A5357

LOG MILE 117.202 TO LOG MILE 117.207



NB ROUTE 7 - BRIDGE A5357

LOG MILE 117.207 TO LOG MILE 117.239



NB ROUTE 7 - BRIDGE A5357

LOG MILE 117.239 TO LOG MILE 117.244

NOT TO SCALE

TYPICAL SECTIONS
SHEET 3 OF 7

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Licensed to: 45
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

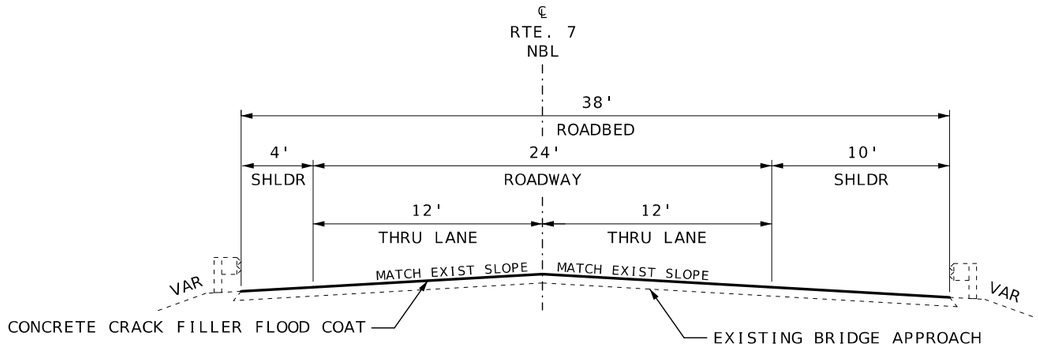
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

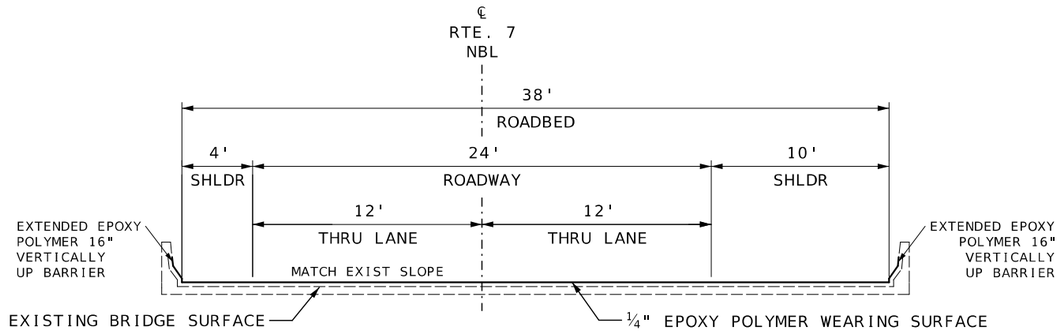
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



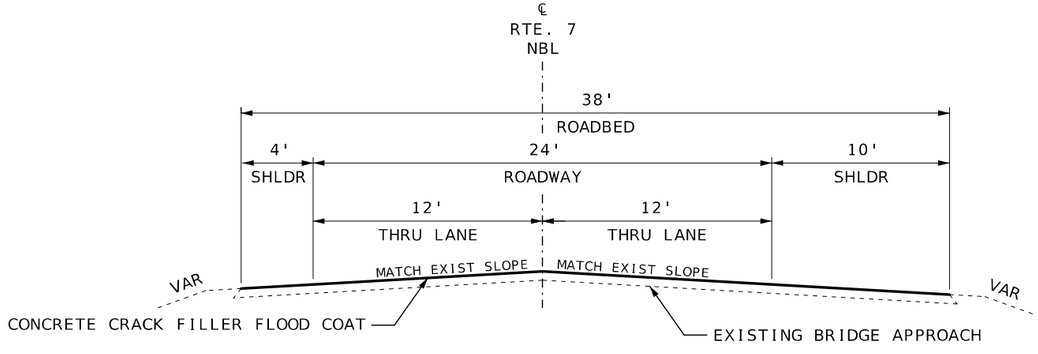
SB ROUTE 7 - BRIDGE A5359

LOG MILE 73.153 TO LOG MILE 73.157



SB ROUTE 7 - BRIDGE A5359

LOG MILE 73.157 TO LOG MILE 73.199



SB ROUTE 7 - BRIDGE A5359

LOG MILE 73.199 TO LOG MILE 73.203

NOT TO SCALE

TYPICAL SECTIONS
SHEET 4 OF 7

STATE OF MISSOURI
CAMERON SCOTT SODY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Licensed to: 45
CAMERON SCOTT SODY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

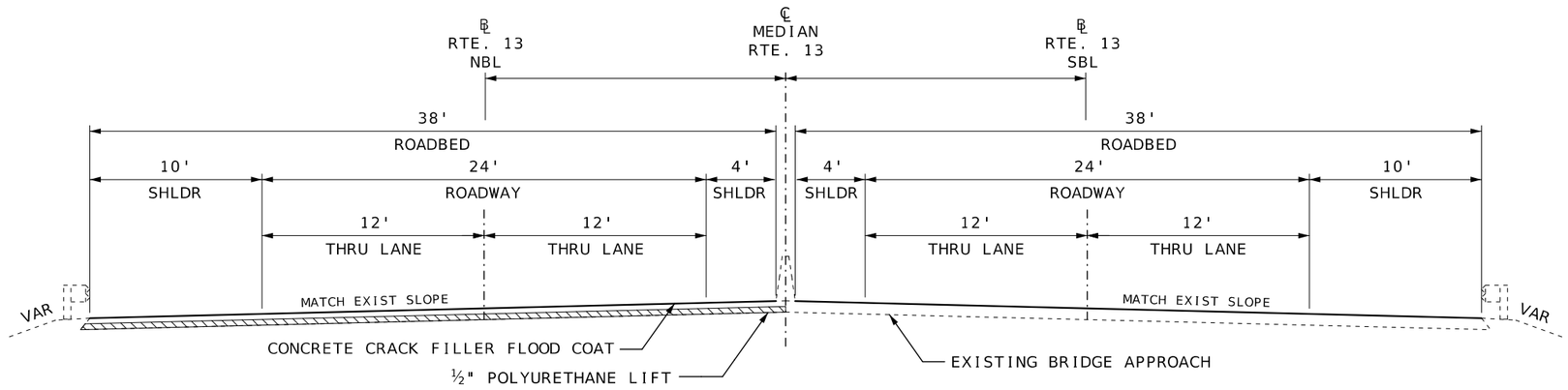
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

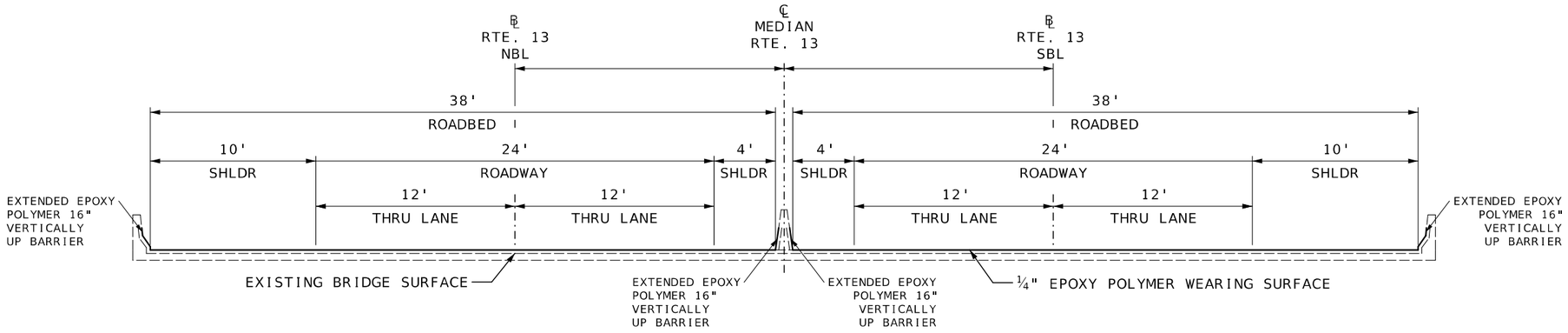
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



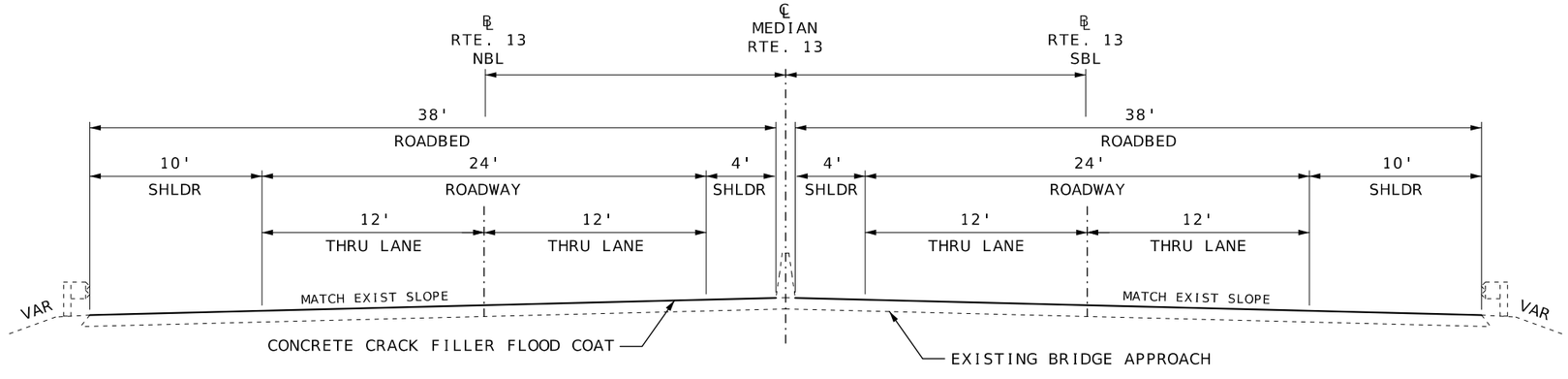
NB ROUTE 13 - BRIDGE A6566
LOG MILE 108.912 TO LOG MILE 108.917

SB ROUTE 13 - BRIDGE A6567
LOG MILE 181.713 TO LOG MILE 181.718



NB ROUTE 13 - BRIDGE A6566
LOG MILE 108.877 TO LOG MILE 108.912

SB ROUTE 13 - BRIDGE A6567
LOG MILE 181.718 TO LOG MILE 181.753



NB ROUTE 13 - BRIDGE A6566
LOG MILE 108.872 TO LOG MILE 108.877

SB ROUTE 13 - BRIDGE A6567
LOG MILE 181.753 TO LOG MILE 181.758

NOT TO SCALE

TYPICAL SECTIONS
SHEET 5 OF 7

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
10 Dec 2025 | 09:45
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

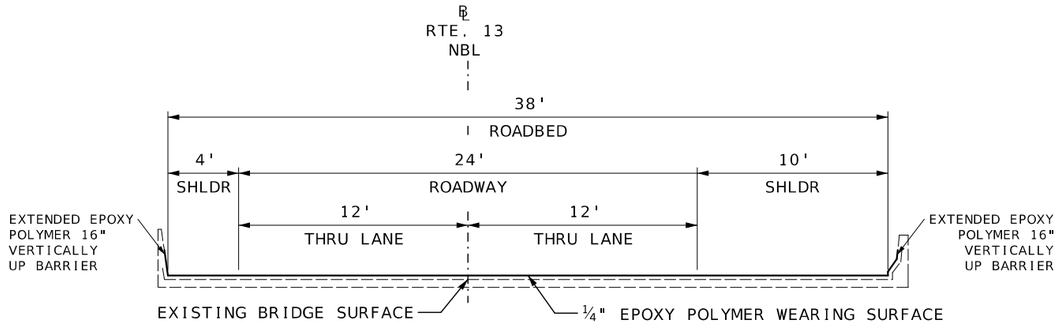
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



NB ROUTE 13 - BRIDGE A6932

LOG MILE 109.723 TO LOG MILE 109.764

NOT TO SCALE

TYPICAL SECTIONS
SHEET 6 OF 7

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Digitally signed by CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

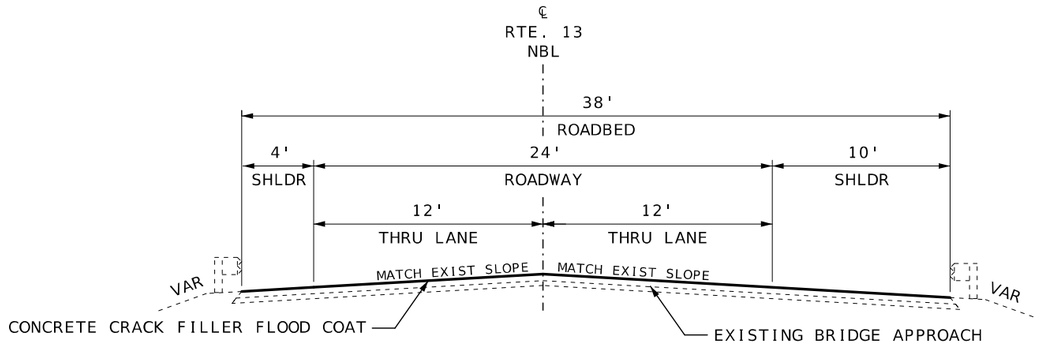
PROJECT NO.

BRIDGE NO.

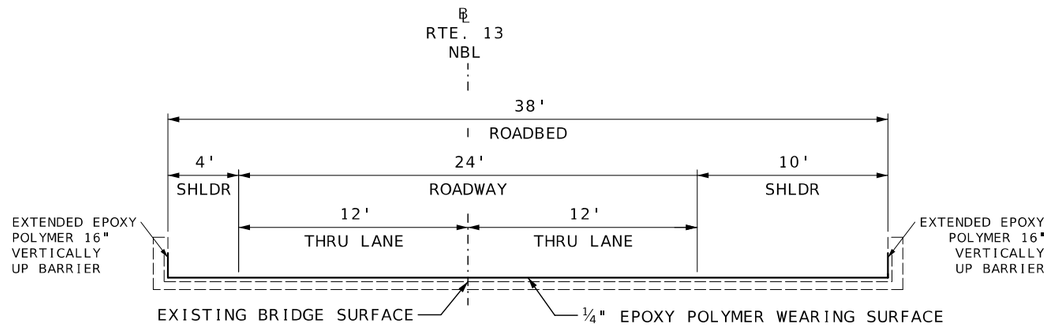
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

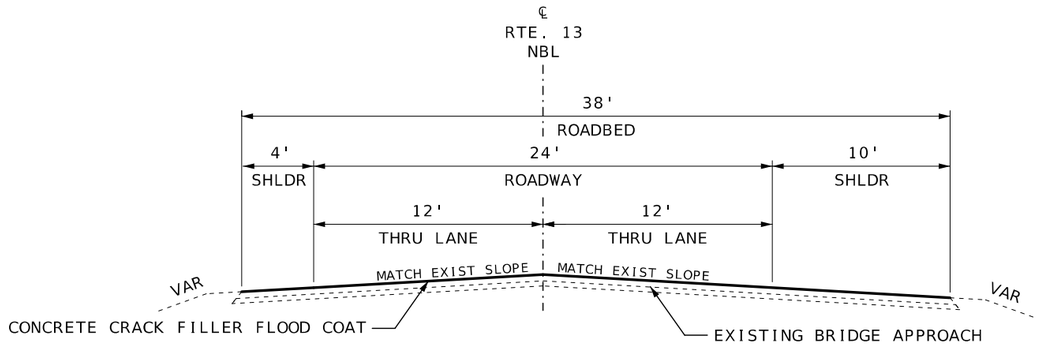
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NB ROUTE 13 - BRIDGE B0428
LOG MILE 105.375 TO LOG MILE 105.380



NB ROUTE 13 - BRIDGE B0428
LOG MILE 105.380 TO LOG MILE 105.402



NB ROUTE 13 - BRIDGE B0428
LOG MILE 105.402 TO LOG MILE 105.407

NOT TO SCALE

TYPICAL SECTIONS
SHEET 7 OF 7

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
Digitally signed by 45 CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

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)

CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

SLAB JACKING MATERIAL HIGH DENSITY POLYURETHANE				
ROUTE	LOG MILE	LOCATION BR #	SLAB JACKING (LB)	REMARKS
7	117.800	A5355	1800	WB APPROACH SLAB (3/4")
7	117.244	A5357	900	EB APPROACH SLAB (3/8")
7	117.202	A5357	600	WB APPROACH SLAB (1/4")
13	108.917	A6566	1800	NB APPROACH SLAB (1/2")
		TOTAL	5100.0	1200 LB PER LANE PER INCH PER APPROACH
		USE	5100	

PAVEMENT MARKING							
				CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)			
ROUTE	BEGIN LOG MILE	END LOG MILE	LT/RT LOCATION	6" INT WHITE LF	6" SOLID WHITE LF	4" INT YELLOW LF	6" SOLID YELLOW LF	REMARKS
C	1.571	1.637	LT/CL/RT		700.0	90.0		BRIDGE A3913
7	117.693	117.698	LT/CL/RT	10.0	30.0		30.0	BRIDGE A5355 APPROACH
7	117.698	117.795	LT/CL/RT	130.0	510.0		510.0	BRIDGE A5355
7	117.795	117.800	LT/CL/RT	10.0	30.0		30.0	BRIDGE A5355 APPROACH
7	117.202	117.207	LT/CL/RT	10.0	30.0		30.0	BRIDGE A5357 APPROACH
7	117.207	117.239	LT/CL/RT	40.0	170.0		170.0	BRIDGE A5357
7	117.239	117.244	LT/CL/RT	10.0	30.0		30.0	BRIDGE A5357 APPROACH
7	73.153	73.157	LT/CL/RT	10.0	20.0		20.0	BRIDGE A539 APPROACH
7	73.157	73.199	LT/CL/RT	60.0	220.0		220.0	BRIDGE A5359
7	73.199	73.203	LT/CL/RT	10.0	20.0		20.0	BRIDGE A5359 APPROACH
13	108.872	108.877	LT/CL/RT	10.0	30.0		30.0	BRIDGE A6566 APPROACH
13	108.877	108.912	LT/CL/RT	50.0	180.0		180.0	BRIDGE A6566
13	108.912	108.917	LT/CL/RT	10.0	30.0		30.0	BRIDGE A6566 APPROACH
13	181.713	181.718	LT/CL/RT	10.0	30.0		30.0	BRIDGE A6567 APPROACH
13	181.718	181.753	LT/CL/RT	50.0	180.0		180.0	BRIDGE A6567
13	181.753	181.758	LT/CL/RT	10.0	30.0		30.0	BRIDGE A6567 APPROACH
13	109.723	109.764	LT/CL/RT	50.0	220.0		220.0	BRIDGE A6932
13	105.375	105.380	LT/CL/RT	10.0	30.0		30.0	BRIDGE B0428 APPROACH
13	105.380	105.402	LT/CL/RT	30.0	120.0		120.0	BRIDGE B0428
13	105.402	105.407	LT/CL/RT	10.0	30.0		30.0	BRIDGE B0428 APPROACH
			TOTAL	530	2640	90	1940	
			USE	3170		90	1940	

SUMMARY OF QUANTITIES

SHEET 1 OF 2

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Digitally signed by CAMERON SCOY - CIVIL
MO-PE-2021019715
Date: 2026.10.26 10:45:45 -05'00'

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO

DISTRICT	SHEET NO.
SW	3

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00	1	16.00				YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00	2	32.00				SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00	1	16.00				MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-2L	48X48	16.00						LANE ENDS LEFT
WO4-2R	48X48	16.00	12	192.00				LANE ENDS RIGHT
WO4-3R	48X48	16.00	1	16.00				ADDED LANE (SYMBOL)
WO5-1	48X48	16.00	4	64.00				ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25	2	12.50				ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	35	560.00				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00	4	64.00				ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	12	192.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	4	64.00				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	2	24.00				GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00				END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	6	36.00				WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93	1	6.93				YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	14	168.00				SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	2	20.00				ROAD CLOSED
R11-3a	60X30	12.50	2	25.00				ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64.00				POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	1633
616-10.10 RELOCATED SIGNS	TOTAL	

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	100	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	12	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	6	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
Licensed in: MO
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

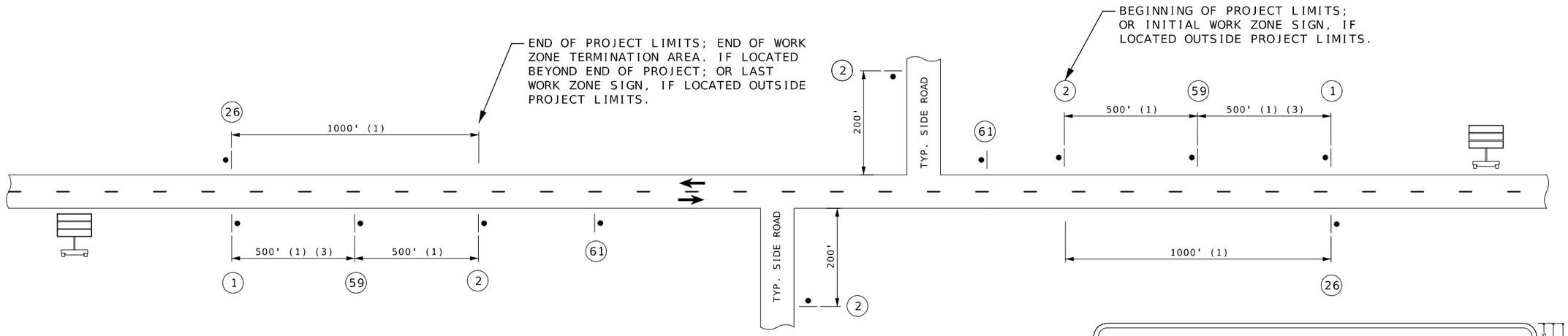
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES
SHEET 2 OF 2

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.



TYPICAL BEGINNING AND END OF PROJECT

(UNDIVIDED HIGHWAY)

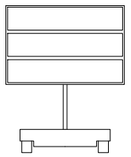
(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(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.

(5) GO20-1 IS NOT USED WHEN WORK AREA IS LESS THAN 2 MILES. GO20-2 IS OPTIONAL WHEN GO20-1 IS NOT USED

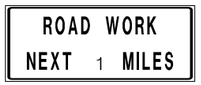


(4)



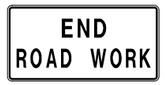
CONST-8

(59) (3)



GO20-1

(1) (5)



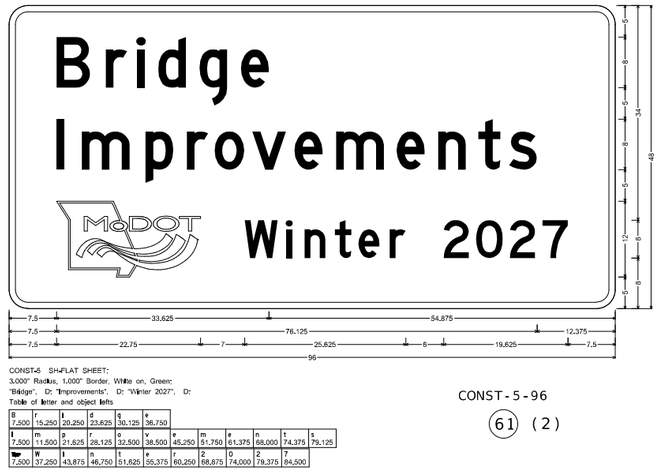
GO20-2

(26) (5)



WO20-1

(2)



CONST-5-96

(61) (2)

NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 9

STATE OF MISSOURI
CAMERON SODY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

10 pages in all: 45
CAMERON SODY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

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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)

TYPICAL CLOSURE OF EXISTING BRIDGE

(1) ROAD CLOSED SIGN SHALL BE PLACED 7-10 FEET BEHIND THE BARRICADES AND AT A SIGN HEIGHT APPROPRIATE TO THE ROADWAY. ONE BARRICADE IS REQUIRED T0 COMPLETELY CLOSE 8 FEET OF PAVEMENT. PAVED SHOULDERS SHALL BE INCLUDED IN THE AREA CLOSED.

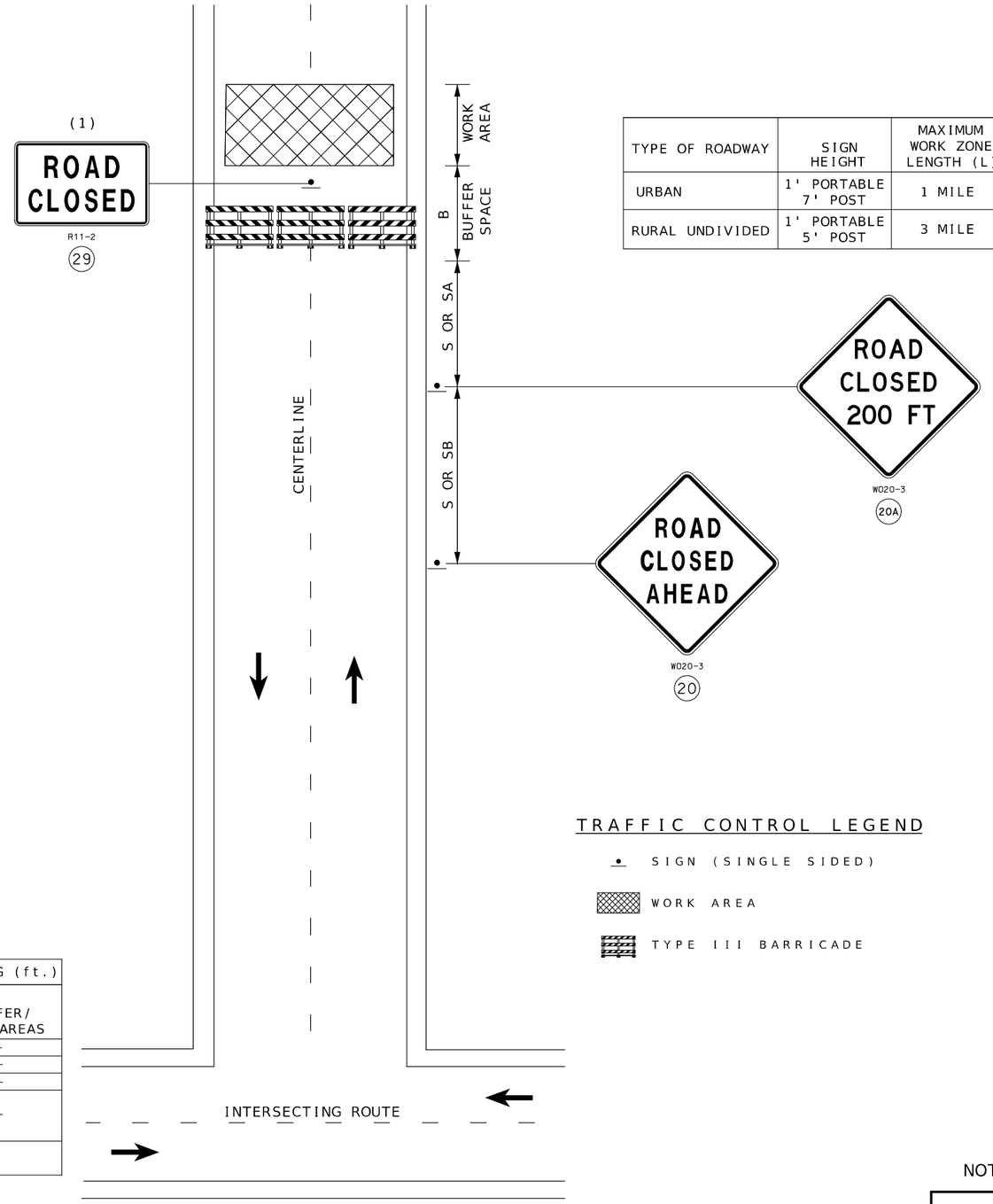
TRAFFIC CONTROL SHOULD BE REMOVED AS SOON AS PRACTICAL AFTER CONDITION FOR CLOSURE NO LONGER EXISTS.

ADDITIONAL WARNING SIGNS SHOULD BE ERECTED AT EACH INTERSECTION WITHIN THE WORK ZONE.

SUPPLEMENTAL WARNING METHODS MAY BE USED TO CALL ATTENTION TO THE WORK ZONE.

SEE STANDARD PLAN 616.10 FOR USE OF BARRICADES AND SIGNS.

FOR LONG-TERM CLOSURE, DETOUR SIGNING SHOULD BE CONSIDERED..



TYPE OF ROADWAY	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MILE
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MILE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- TYPE III BARRICADE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	–	–	250	–	–
40-45	350	500	–	–	360	–	–
50-55	500	1000	–	–	495	–	–
60-70	1000	SA-1000 SB-1500 SC-2640	–	–	730	–	–

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

TRAFFIC CONTROL SHEET 2 OF 9

STATE OF MISSOURI
CAMERON SODY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Licensed in: 45
CAMERON SODY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
HENRY, ST. CLAIR

JOB NO.
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PROJECT NO.

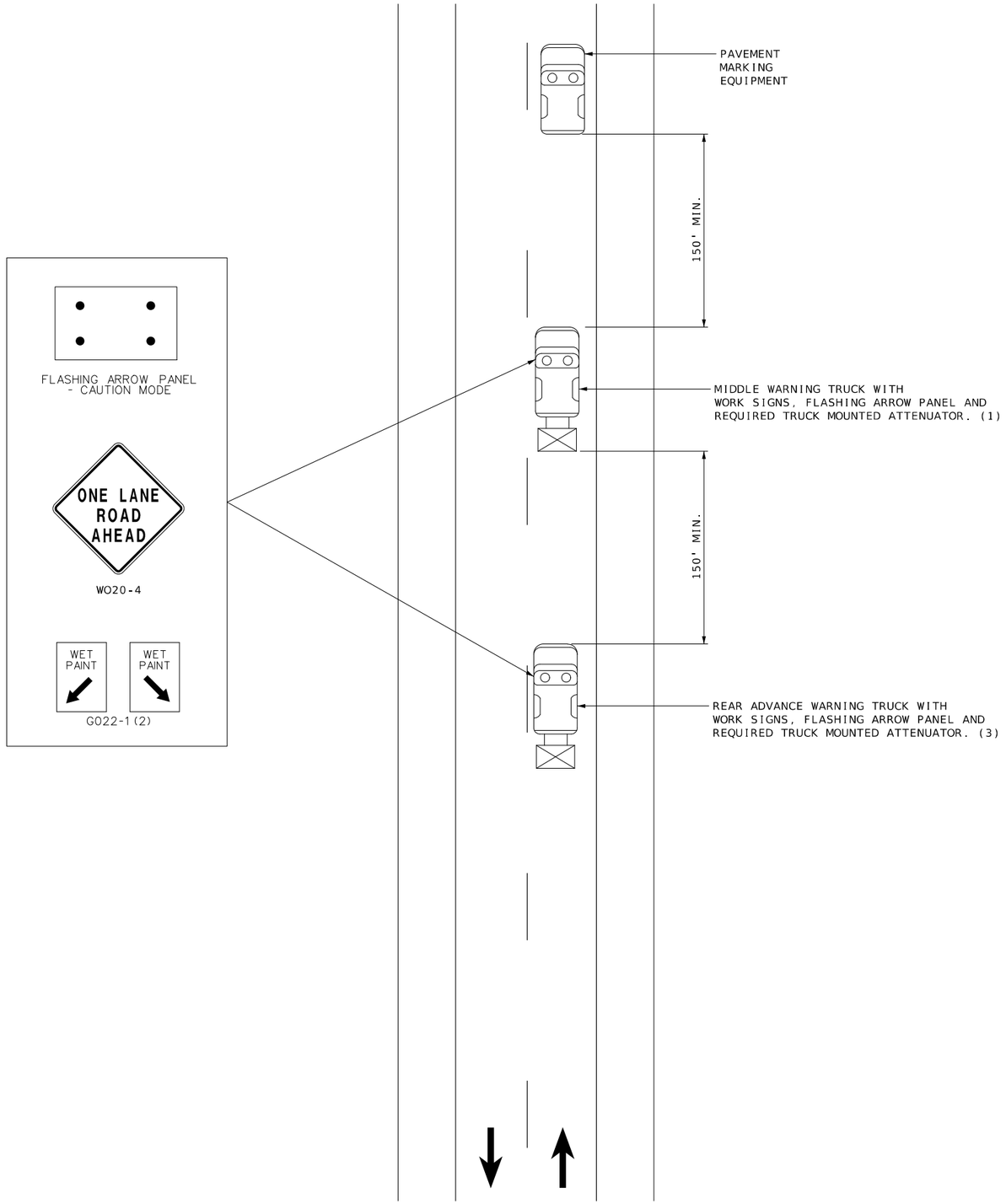
BRIDGE NO.

DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PAVEMENT MARKING ON TWO-LANE HIGHWAY

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 3 OF 9

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Licensed in: MO
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO

DISTRICT	SHEET NO.
SW	6

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

PROJECT NO.

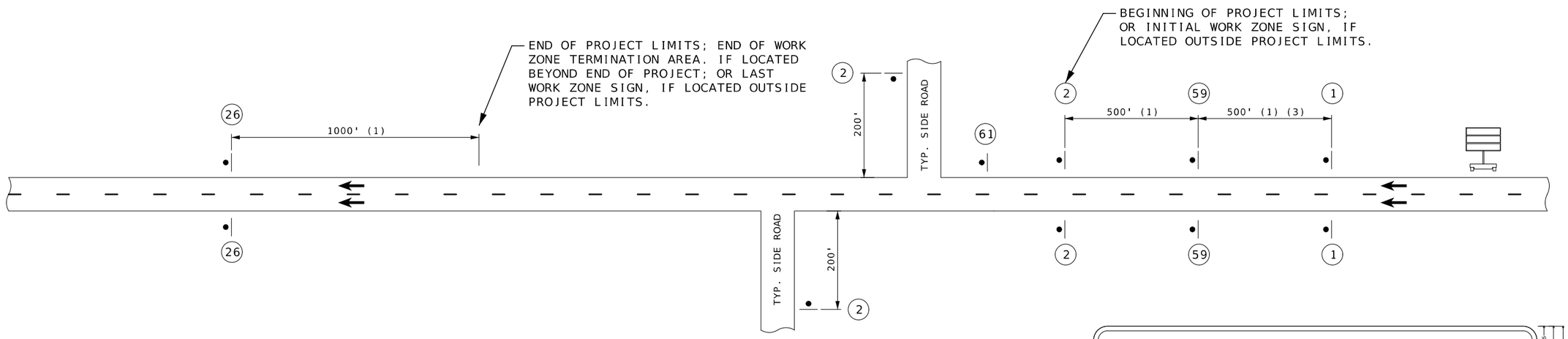
BRIDGE NO.

DESCRIPTION	DATE

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

GENERAL NOTES:

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.



TYPICAL BEGINNING AND END OF PROJECT

(DIVIDED HIGHWAY)

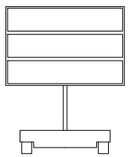
(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(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.

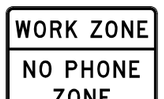
(3) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

(4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

(5) GO20-1 IS NOT USED WHEN WORK AREA IS LESS THAN 2 MILES. GO20-2 IS OPTIONAL WHEN GO20-1 IS NOT USED.

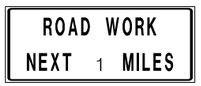


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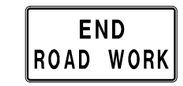
CONST-8

59 (3)



GO20-1

1 (5)



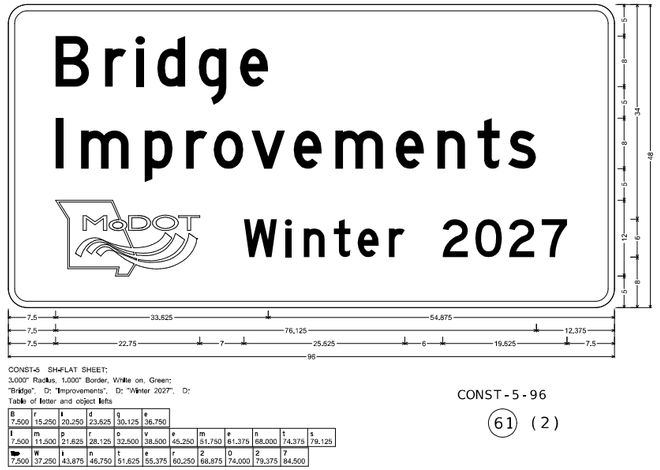
GO20-2

26 (5)



WO20-1

2



CONST-5-96

61 (2)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 9

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
10 pages or sheets: 46
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

SPEED	SIGN SPACING (FT)	MINIMUM TAPER LENGTH (L) FOR LANE WIDTHS (W)			OPTIONAL	CHANNELIZER SPACING (FT)	
NORMAL POSTED (MPH)	UNDIVIDED (S)	10 FT	11 FT	12 FT	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	205	225	245	250	35	40
40-45	350	450	495	540	360	40	80
50-55	500	550	605	660	495	50	80
60	1000	600	660	720	730	60	120
65		650	715	780			
70		700	770	840			

NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES. NO DIRECT PAY.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED. AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED.

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



WO20-1

2



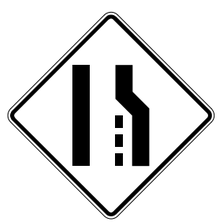
WO20-5

5



WO20-6a

6



WO4-2R

6A

GO20-5aP





R2-1

54

4



R2-1

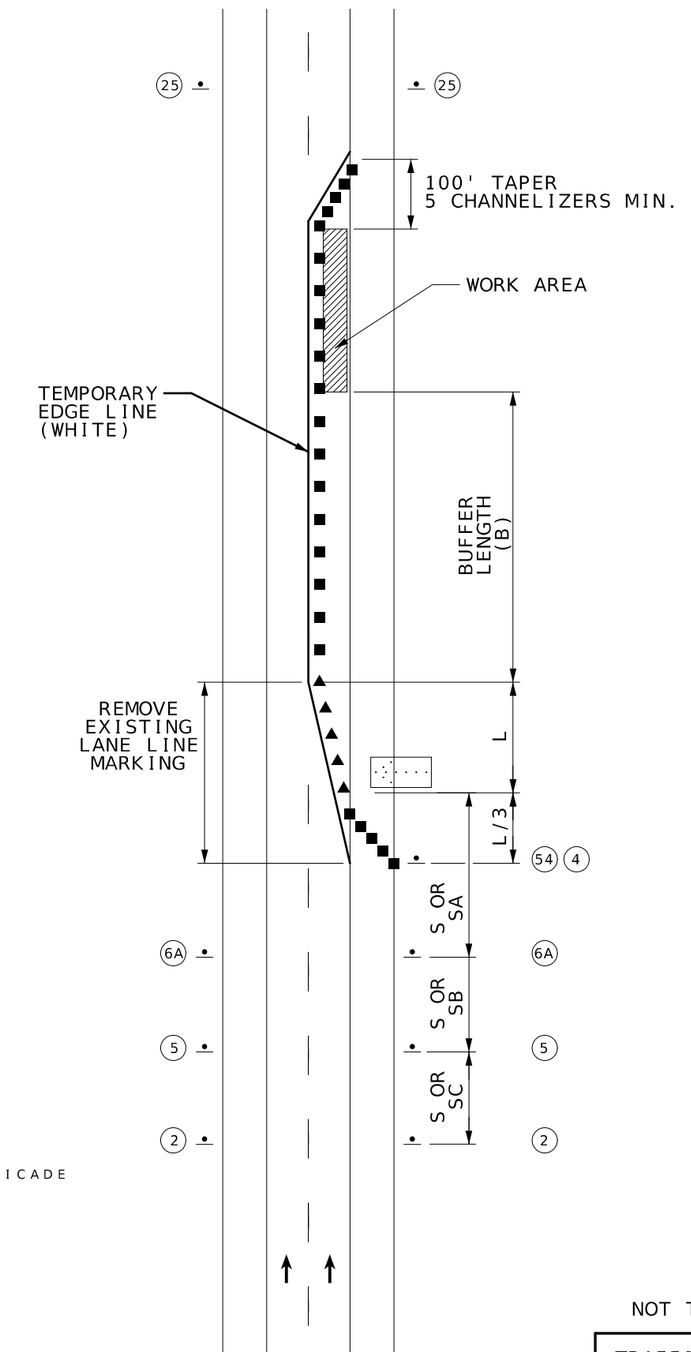
25

(NORMAL SPEED)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- FLASHING ARROW PANEL
- DIRECTION INDICATOR BARRICADE

STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY



NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 9

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

Licensed in: 46
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	8

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPEED	SIGN SPACING (FT)	MINIMUM TAPER LENGTH (L) FOR LANE WIDTHS (W)			OPTIONAL	CHANNELIZER SPACING (FT)	
NORMAL POSTED (MPH)	UNDIVIDED (S)	10 FT	11 FT	12 FT	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	205	225	245	250	35	40
40-45	350	450	495	540	360	40	80
50-55	500	550	605	660	495	50	80
60	1000	600	660	720	730	60	120
65		650	715	780			
70		700	770	840			

NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES. NO DIRECT PAY.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED. AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED.

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



WO20-1

2



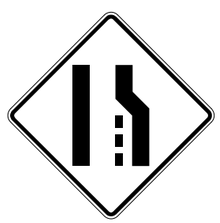
WO20-5

5



WO20-6a

6



WO4-2R

6A

GO20-5aP





R2-1

54

4



R2-1

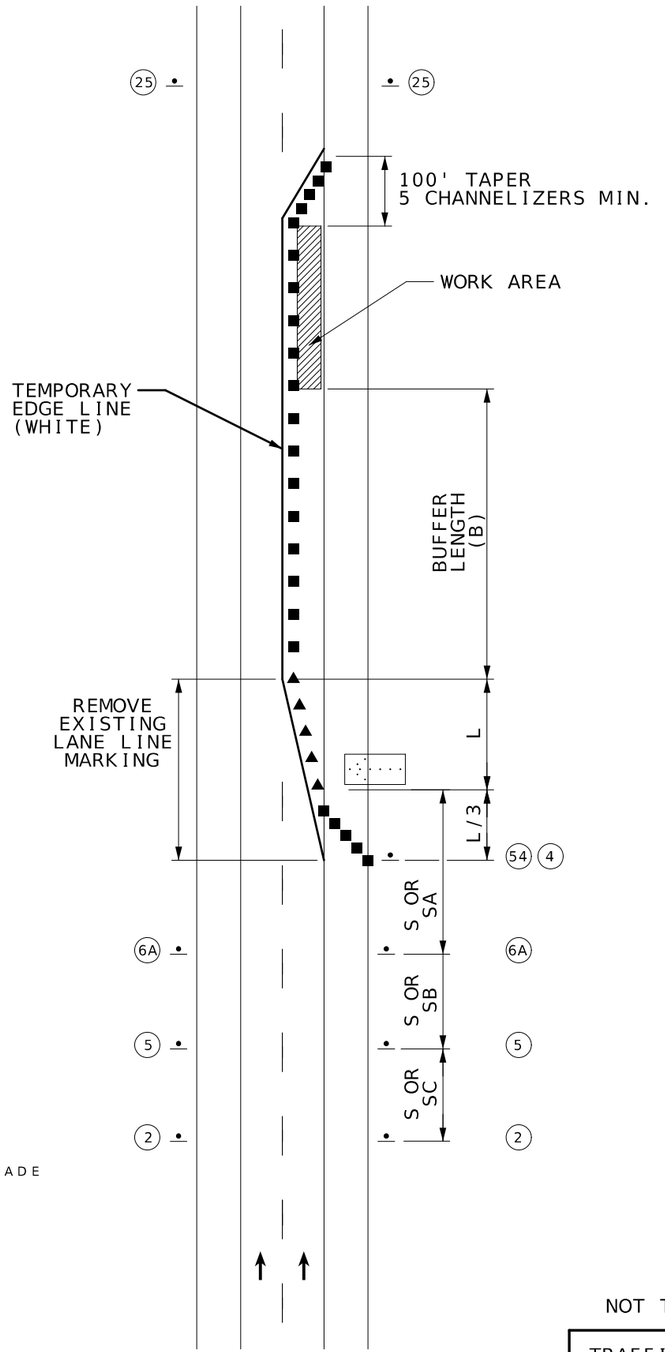
25

(NORMAL SPEED)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- FLASHING ARROW PANEL
- DIRECTION INDICATOR BARRICADE

STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY



NOT TO SCALE

TRAFFIC CONTROL
SHEET 6 OF 9

STATE OF MISSOURI
CAMERON SODY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

10 pages; no. 46
CAMERON SODY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

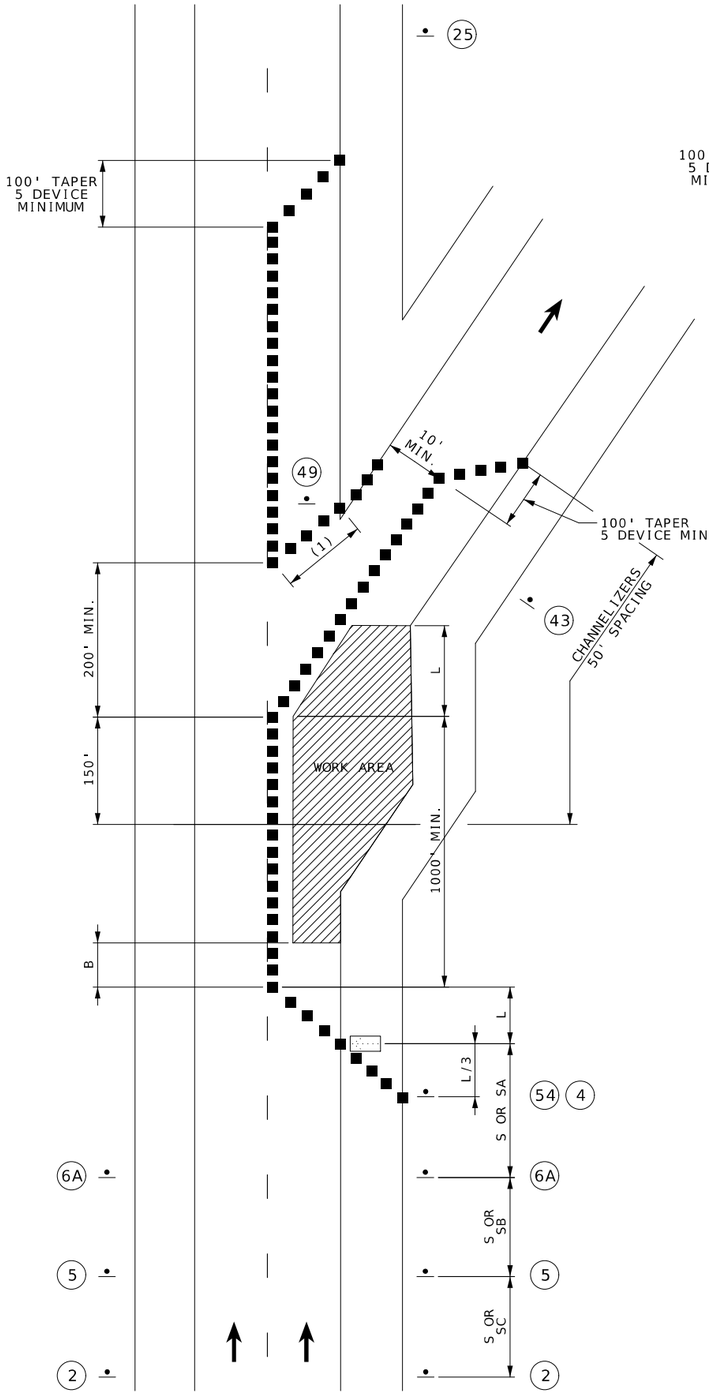
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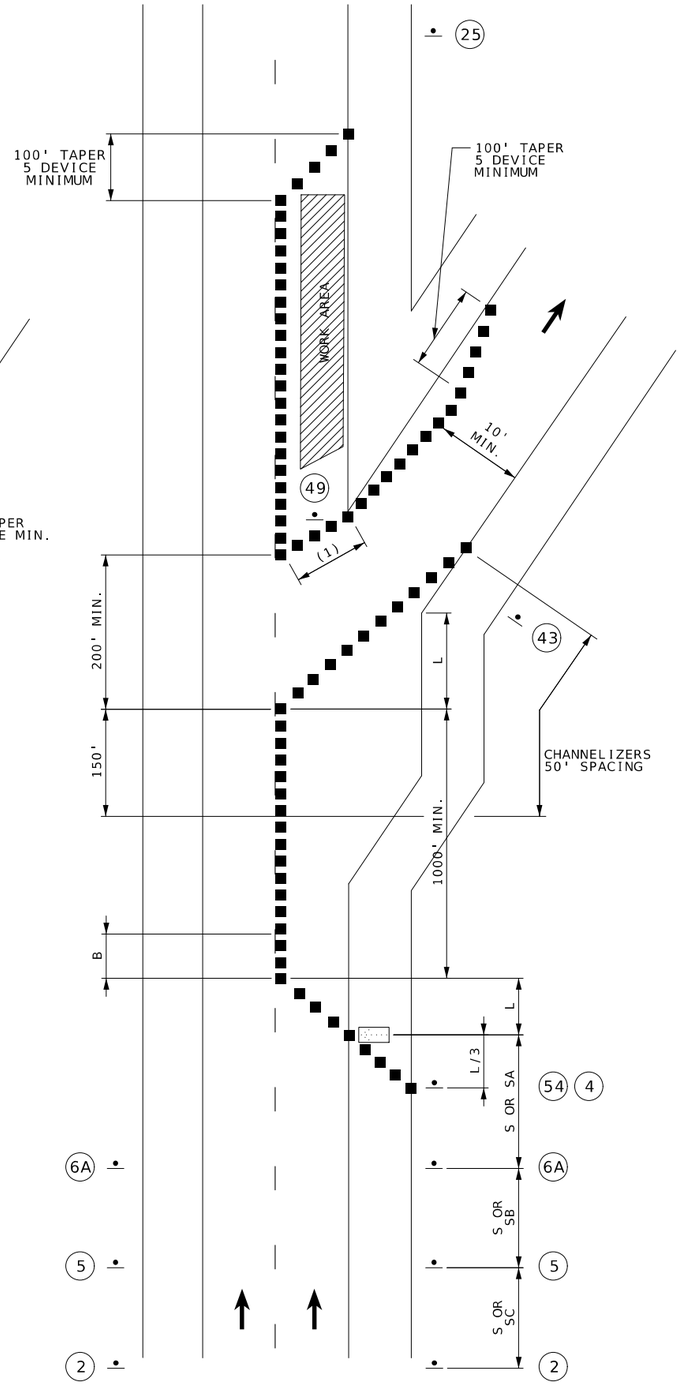
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





WORK IN THE VICINITY OF AN EXIT RAMP

SPEED	SIGN SPACING (FT)	MINIMUM TAPER LENGTH (L) FOR LANE WIDTHS (W)			OPTIONAL	CHANNELIZER SPACING (FT)	
NORMAL POSTED (MPH)	UNDIVIDED (S)	10 FT	11 FT	12 FT	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	205	225	245	250	35	40
40-45	350	450	495	540	360	40	80
50-55	500	550	605	660	495	50	80
60	SA - 1000 SB - 1500 SC - 2640	600	660	720	730	60	120
65		650	715	780			
70		700	770	840			

NOTES:

(1) 5 CHANNELIZER DEVICE MINIMUM.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.



WO20-1
2



WO20-5
5

LEFT

GO20-5aP





R2-1
54
4



WO4-2R
6A



WO5-1
43



R2-1
25
(NORMAL SPEED)



E05-1
49

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- FLASHING ARROW PANEL

TRAFFIC CONTROL
SHEET 7 OF 9

STATE OF MISSOURI
CAMERON SODY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
Digitally signed by CAMERON SODY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

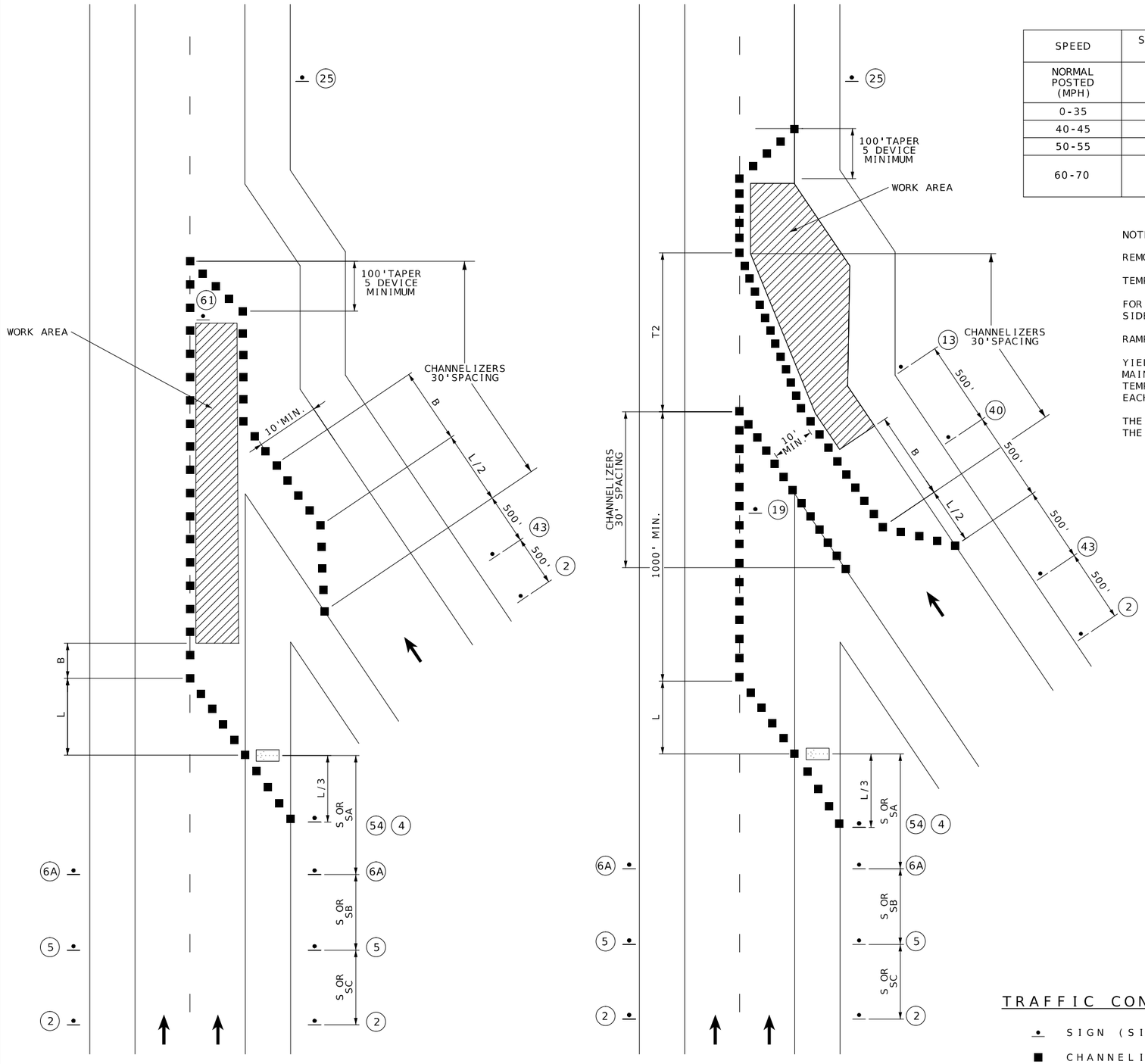
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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



SPEED	SIGN SPACING (FT)	MINIMUM TAPER LENGTH (L) FOR LANE WIDTHS (W)			OPTIONAL	CHANNELIZER SPACING (FT)	
NORMAL POSTED (MPH)	DIVIDED (S)	10 FT	11 FT	12 FT	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	205	225	245	250	35	40
40-45	500	450	495	540	360	40	80
50-55	1000	550	605	660	495	50	80
60-70	SA - 1000 SB - 1500 SC - 2640	700	770	840	730	60	120

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

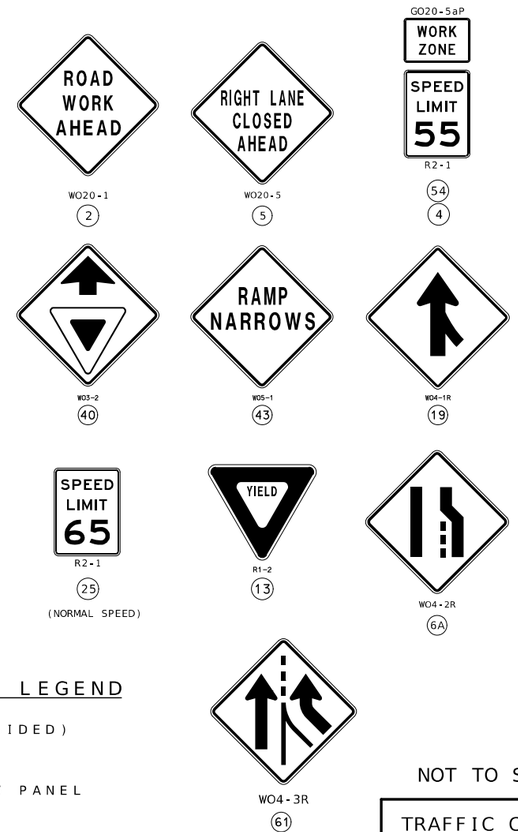
TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR RAMPS WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YIELD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC. WHERE INADEQUATE ACCELERATION DISTANCE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN SHALL BE REPLACED WITH STOP SIGNS (ONE ON EACH SIDE OF THE APPROACH).

THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- FLASHING ARROW PANEL

NOT TO SCALE

WORK IN THE VICINITY OF AN ENTRANCE RAMP

TRAFFIC CONTROL
SHEET 8 OF 9

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER
10 pages in set: 46
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	11

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

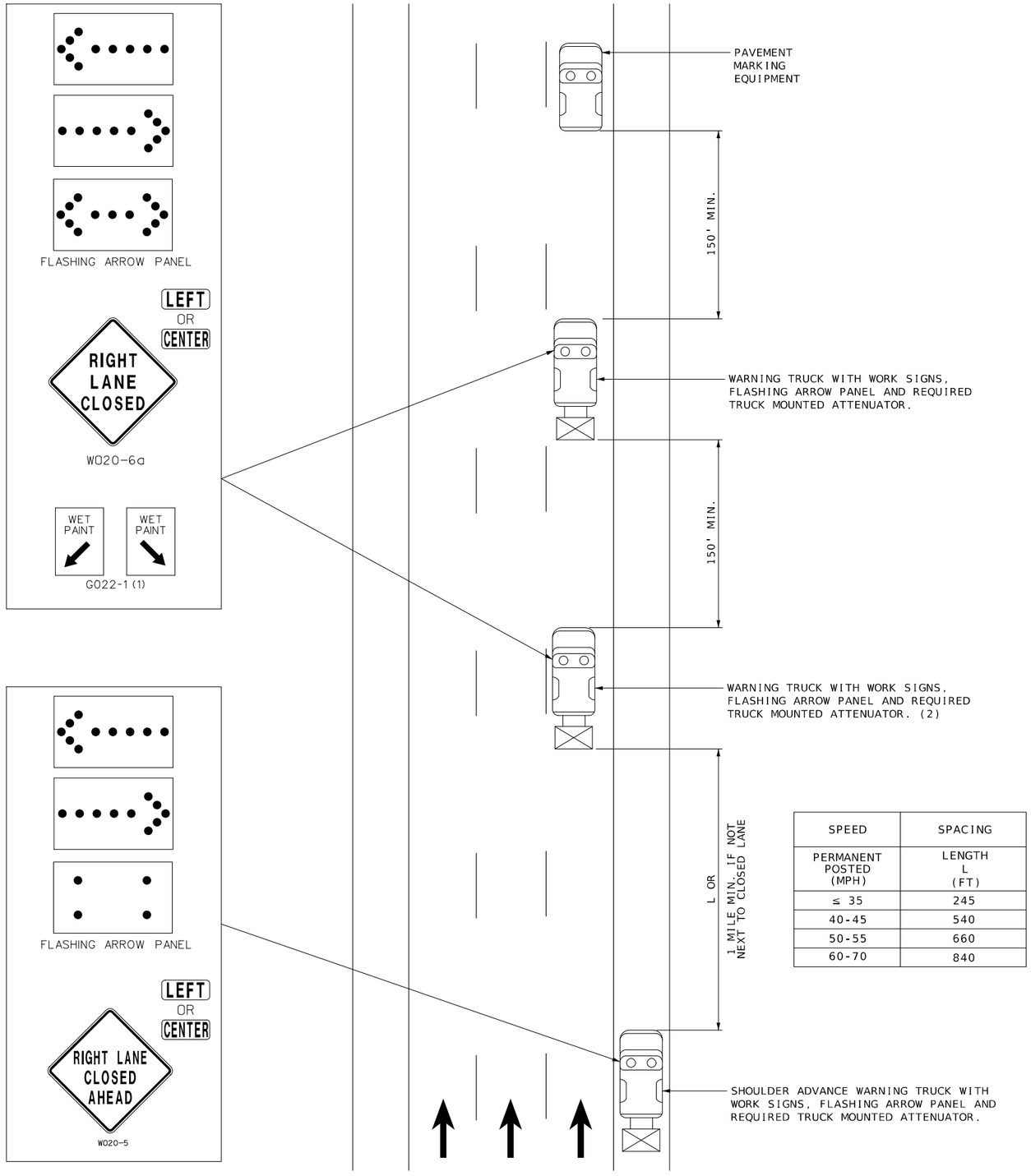
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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



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

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

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

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

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

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

PAVEMENT MARKING ON DIVIDED HIGHWAY

NOT TO SCALE

TRAFFIC CONTROL
SHEET 9 OF 9

STATE OF MISSOURI
CAMERON SCOY
NUMBER PE-2021019715
PROFESSIONAL ENGINEER

10 Dec 2025 | 1:46
CAMERON SCOY - CIVIL
MO-PE-2021019715

DATE PREPARED
10/26/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
SW	12

COUNTY
HENRY, ST. CLAIR

JOB NO.
JSR0053B

CONTRACT ID.

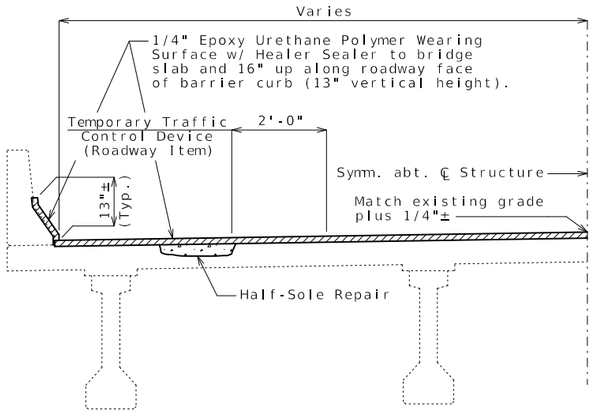
PROJECT NO.

BRIDGE NO.

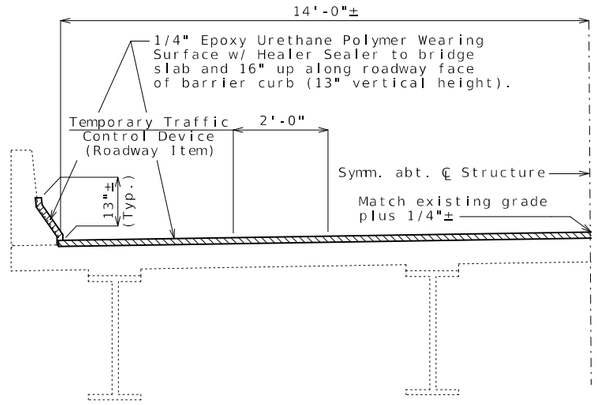
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

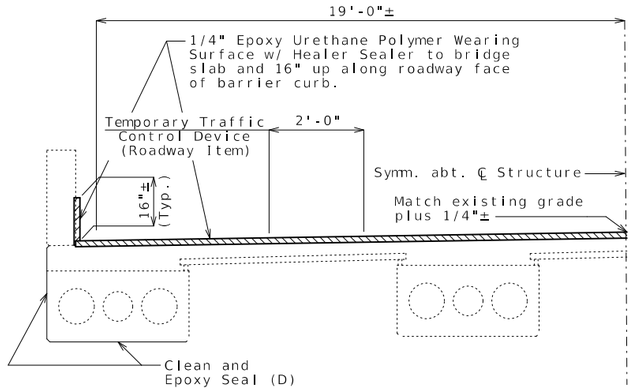
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CONCRETE I-GIRDER



STEEL PLATE GIRDER



VOIDED SLAB BEAM

TYPICAL CROSS SECTION

Bridge Information

Bridge Number	County	Route	Over	Structure Type	Span Layout	Beginning Station	Skew	Roadway Width
A39132	Henry	Route C	Tebo Creek	Continuous Composite Plate Girder Spans	(107'-136'-107')	81+68.17	0°	28'-0"
A53551	Henry	Route 7 NB	Big Creek	Prestressed Concrete I-Girder Spans	(62'-5 @ 78'-62')	1516+32.47	35° RA	38'-10"
A53571	Henry	Route 7 NB	Big Creek Overflow 2	Prestressed Concrete I-Girder Spans	(30'-3 @ 37'-30')	1545+70.07	0°	38'-10"
A53591	Henry	Route 7 SB	Fields Creek	Prestressed Concrete I-Girder Spans	(67'-86'-67')	1739+77.13	20° RA	38'-10"
A65661	St. Clair	Route 13 NB	US 54	Prestressed Concrete I-Girder Spans	(48'-92'-48')	1250+25.00	24°12'11.4" LA	38'-0"
A65671	St. Clair	Route 13 SB	US 54	Prestressed Concrete I-Girder Spans	(48'-92'-48')	1250+09.27	24°12'11.4" LA	38'-0"
A69321	St. Clair	Route 13 NB	Coon Creek	Prestressed Concrete I-Girder Spans	(60'-69'-60')	1205+16.17	30° LA	38'-0"
B04281	St. Clair	Route 13 NB	Panther Creek	Prestressed Concrete Spread Voided Slab Beam Spans	(30'-60'-30')	99+93.63	0°	38'-0"

Estimated Quantities

Bridge Number	Dewatering	Remove & Replace Type A Curb	¼" Epoxy Urethane Polymer Wearing Surface w/ Healer Sealer	Half-Sole Repair	Cleaning & Epoxy Coating	Concrete Crack Filler **	Pile Encasement	Surface Preparation for Applying Epoxy-Mastic Primer	Aluminum Epoxy-Mastic Primer	Cored Slab Drains	Open Cell Foam Joint Seal *
	lump sum	ln. foot	sq. yard	sq. foot	sq. foot	sq. yard	each	lump sum	lump sum	each	ln. foot
A39132			1,205								
A53551			2,384			222				8	151
A53571	1		800			224	A	1	1	8	
A53591			1,027			222					
A65661			863			226					119
A65671			863	50	C	226					119
A69321		E	861								118
B04281	1		545		D	222	B	1	1		

* Install open cell foam joint seal along the inner faces of wings to approach slab and approach slab to approach pavement at both end bents. See detail on Sheet No. 2.

** Apply Concrete Crack Filler flood coat to bridge approach slab at both end bents.

A: 20 (All piles @ Intermediate Bents No. 2, 3, 4 & 5)

B: 12 (All piles @ Intermediate Bents No. 2 & 3)

C: 11 (Small crack near top of web, Span No. 3, Girder No. 5, near End Bent No. 4)

D: 1,615 (Clean and epoxy seal slab edge along full length of slab, both sides and outer faces and underside of the exterior girders.)

E: 12 (Remove and Replace Type A curb located on the east side of the north approach slab.)

GENERAL NOTES:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Unit Stresses:

Class B Concrete (Pile Encasement) f'c = 3,000 psi
Class B-1 Concrete (Half-Soling & Type A curb) f'c = 4,000 psi

Reinforcing Steel:

Minimum clearance of reinforcing steel shall be 1 1/2", unless otherwise shown.

Open Cell Foam:

The open cell foam joint seal shall be installed according to the manufacturer's recommendations.

Miscellaneous:

All exposed edges of Type A Curb shall have either a 1/2" radius or a 3/8" bevel, unless otherwise shown.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface. (Roadway Item)

For details of Cored Slab Drains, see Sheet No. 3.

For details of Pile Encasement, see Sheet No. 4.

Traffic Handling:

Traffic to be maintained on structure during construction. See Roadway plans for traffic control.

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TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
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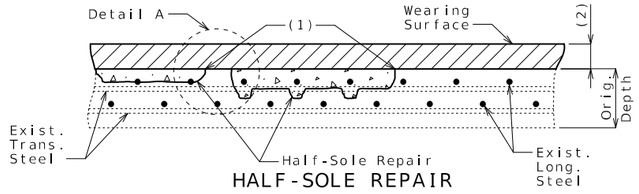
DATE PREPARED 10/23/2026
ROUTE VARIOUS | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY VARIOUS
JOB NO. JSR0053B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. VARIOUS

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Note: This drawing is not to scale. Follow dimensions.



HALF-SOLE REPAIR

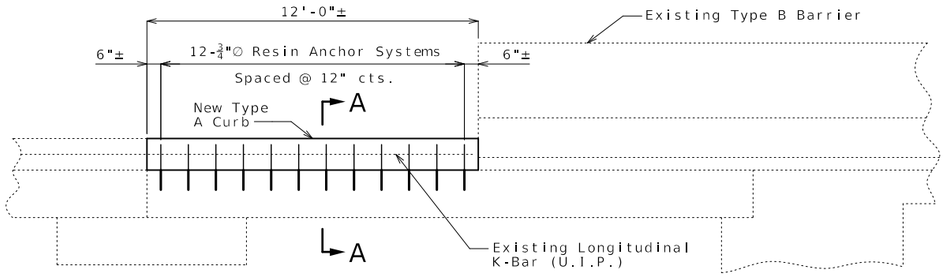
(1) 1" vertical side shall be established outside the deteriorated area.

(2) 1/4" minimum epoxy urethane polymer wearing surface w/ healer sealer.

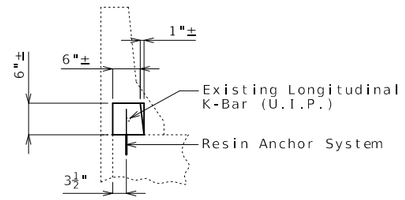
DETAILS SHOWING HALF-SOLE REPAIR

Note:

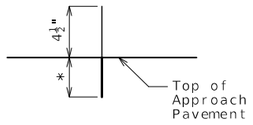
Half-Sole Repair to be performed on Bridge No. A65671.



ELEVATION SHOWING LIMITS OF CONCRETE REPAIR



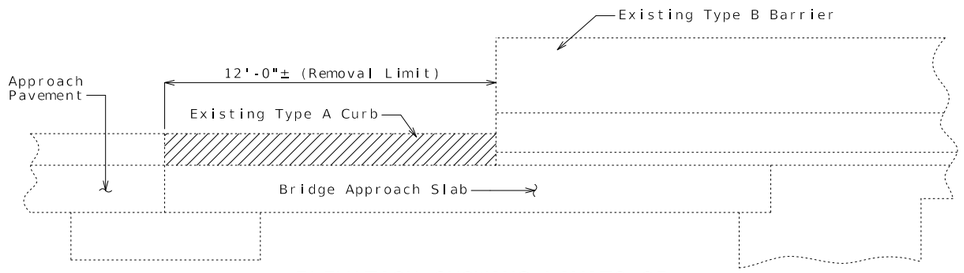
SECTION A-A



Resin Anchor System
(12 Required)

* Manufacturer's recommended embedment length (5" min.)

DETAILS OF RESIN ANCHOR SYSTEM

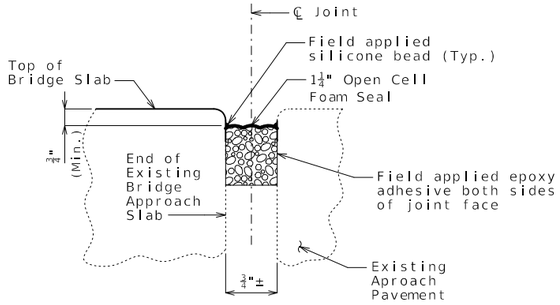


ELEVATION SHOWING LIMITS OF CONCRETE REMOVAL

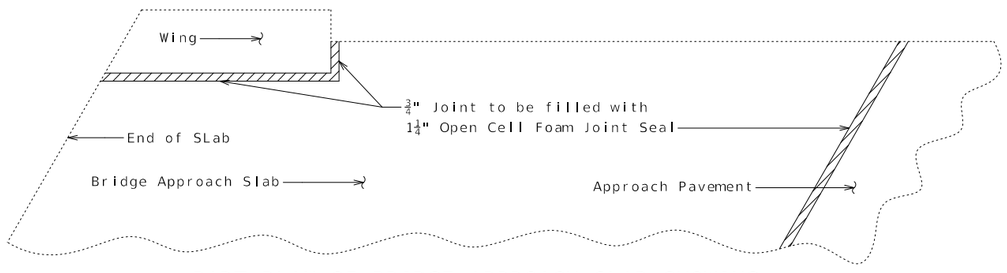
Note:

Remove and Replace Type A Curb to be performed on Bridge No. A69321.

DETAILS SHOWING TYPE A CURB REPAIR



SECTION THRU JOINT AT BOTH END BENTS SHOWING OPEN CELL FOAM JOINT SEAL



PART PLAN OF BRIDGE APPROACH SLAB SHOWING OPEN CELL FOAM JOINT SEAL LOACTION

Note:

Open Cell Foam Joint Seal to be installed on Bridges No. A53551, A65661, A65671 & A69321

DETAILS SHOWING OPEN CELL FOAM JOINT SEAL

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VARIOUS	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
VARIOUS

JOB NO.
JSR0053B

CONTRACT ID.

PROJECT NO.

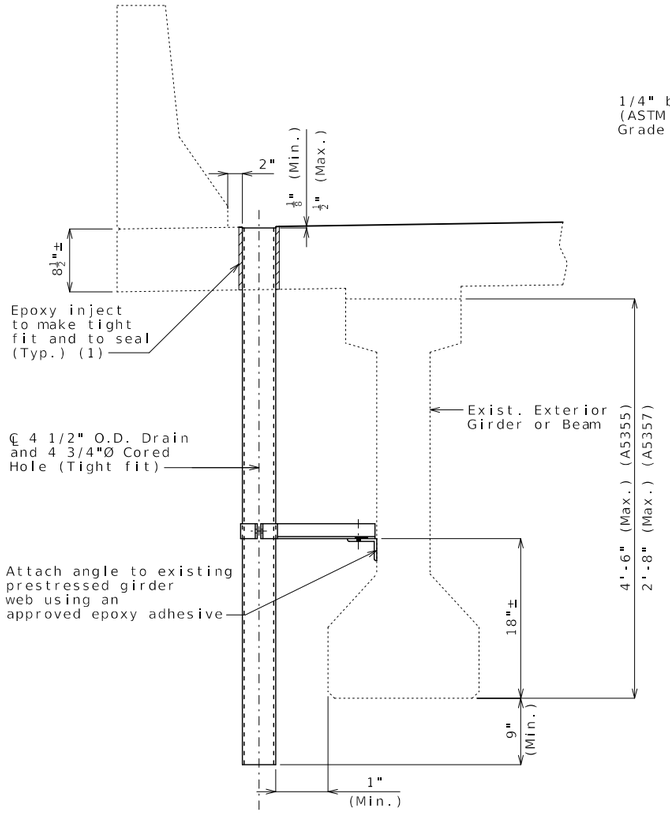
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VARIOUS

DESCRIPTION	DATE

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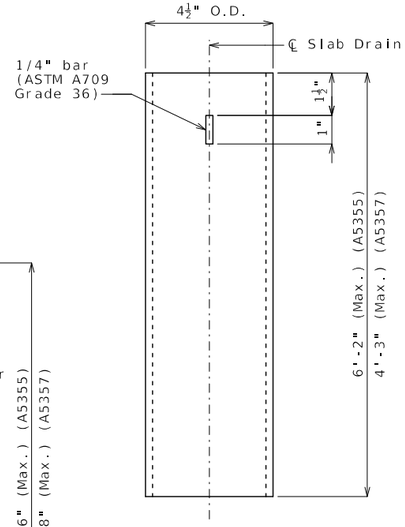
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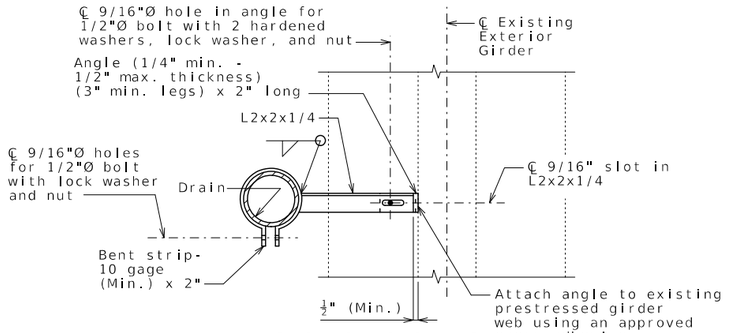


PART SECTION NEAR DRAIN

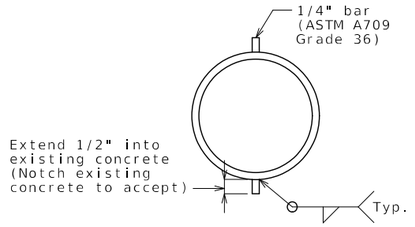
(1) Use backer rod around drain @ bottom of slab and epoxy inject from the top.



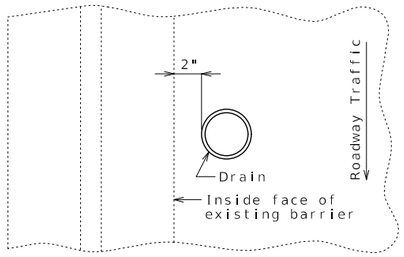
ELEVATION OF DRAIN



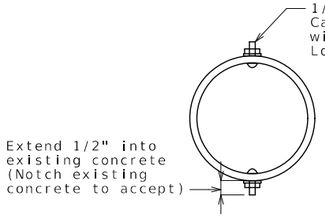
PART SECTION SHOWING BRACKET ASSEMBLY



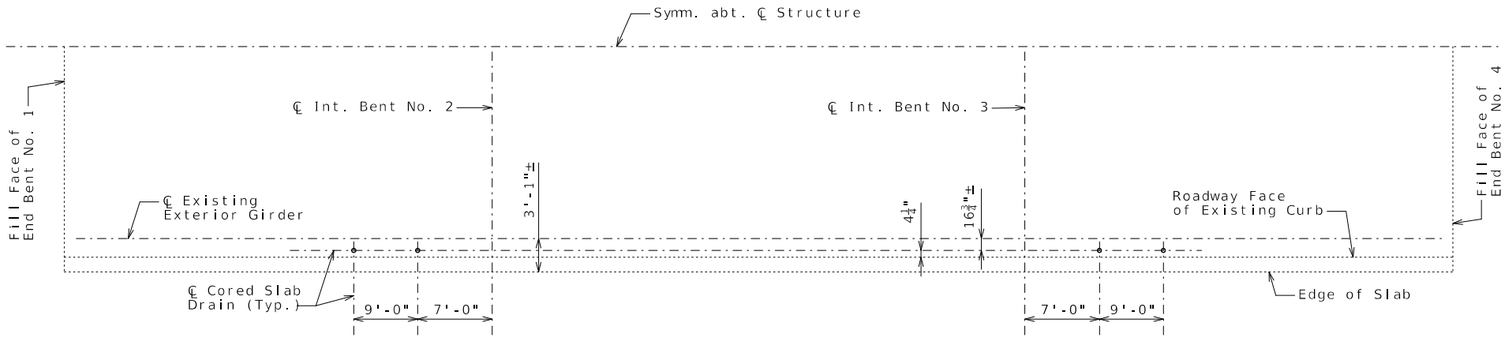
PLAN OF DRAIN



PART PLAN OF SLAB AT DRAIN



PLAN OF OPTIONAL FRP DRAIN



SPAN (1-2) FOR BRIDGE A53551
SPAN (1-2) FOR BRIDGE A53571

SPAN (7-8) FOR BRIDGE A53551
SPAN (5-6) FOR BRIDGE A53571

PART PLAN SHOWING CORED SLAB DRAIN LOCATIONS

CORED SLAB DRAINS

Note:

Cored Slab Drains to be installed on Bridges No. A53551 & A53571.

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

The bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M232 (ASTM A153), Class C.

All 1/2-inch diameter bolts shall be ASTM A307, except as noted.

Shop drawings will not be required for the slab drains and the bracket assembly.

Cost of cored slab drains, complete in place, will be considered completely covered by the contract unit price for Cored Slab Drain per each.

Holes for slab drains shall be cored. Percussion drilling will not be permitted.

Slab drain locations may be shifted the minimum extent necessary to avoid slab reinforcement.

Cored slab drains shall be placed vertically.

Notes for Steel Drain:

Slab drains shall be fabricated from 1/4-inch structural steel tubing ASTM A500 or A501.

The drains shall be galvanized in accordance with ASTM A123.

Drains shall be inserted through slab such that damage to galvanized coating is minimized.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance. Care shall be taken to avoid damage to exterior coating during installation.

The color of the slab drain shall be gray (Federal Standard #26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drains shall be as recommended by the manufacturer to ensure a smooth, chip-free cut.

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DISTRICT BR | SHEET NO. 3
COUNTY VARIOUS
JOB NO. JSR0053B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. VARIOUS

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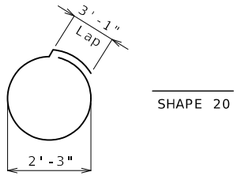
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BILL OF REINFORCING STEEL - EACH PILE

NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAM
Varies	4 P1	10'-0"	16	
8	5 V1	Varies	20	



SHAPE 16

SHAPE 20

Notes:

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to the nearest inch.

All bars shall be epoxy coated.

All exposed surfaces of the existing structural steel piles and sway bracing shall be recoated with one 6-mil thickness of aluminum epoxy-mastic primer applied over an SSPC-SP3 surface preparation in accordance with Sec 1081. These protective coatings shall extend to bottom of beam. The cost of surface preparation will be considered completely covered by the contract lump sum price for Surface Preparation for Applying Epoxy-Mastic Primer. The cost of the aluminum epoxy-mastic primer and bituminous coating will be considered completely covered by the contract lump sum price for Aluminum Epoxy-Mastic Primer.

General Notes:

All concrete for pile encasement shall be Class B (f'c = 3000 psi).

The reinforcing steel shall be epoxy coated Grade 60 with fy = 60,000 psi

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The exposed and accessible surfaces of the existing structural steel that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for piles shall extend a minimum of one foot outside the face of the pile encasement.

Cost of all concrete, reinforcement, shear connectors, surface preparation, coatings and any other incidental material or labor to complete pile encasement, complete in place, will be considered completely covered by the contract unit price for Pile Encasement.

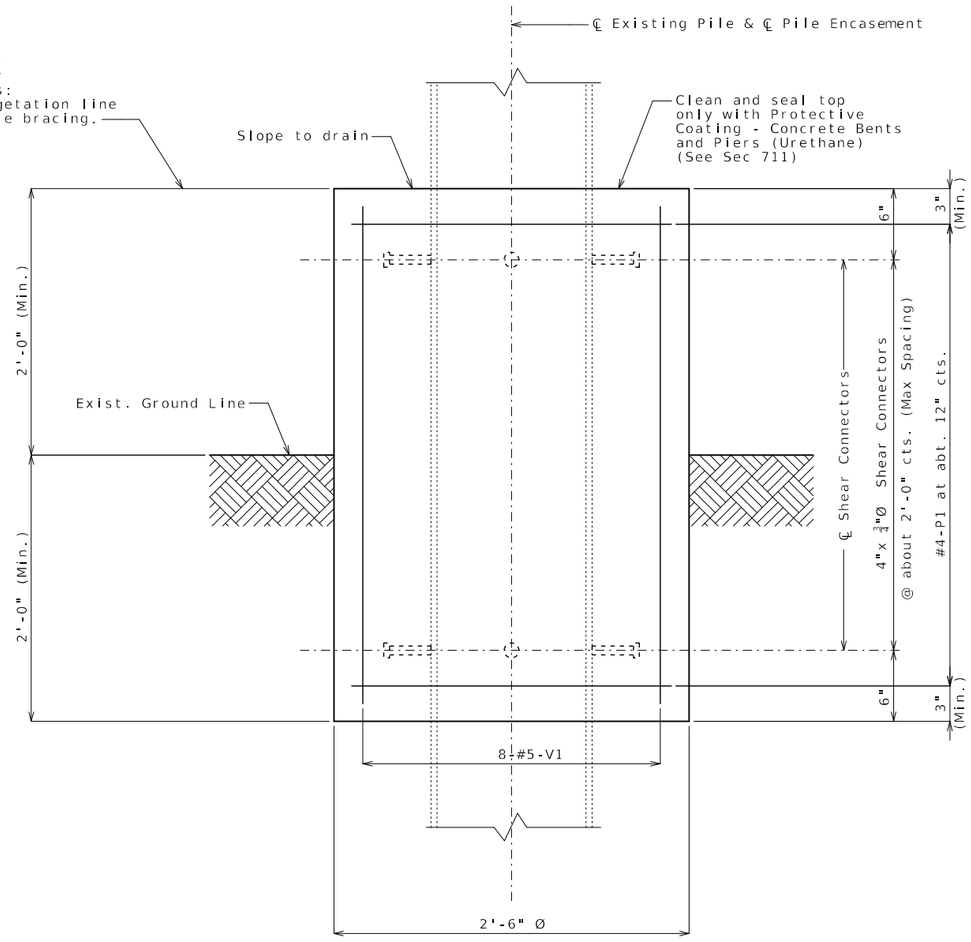
Cost of all excavation will be considered completely covered by the contract lump sum price for Class 2 Excavation.

Cost of dewatering will be considered completely covered by the contract lump sum price for Dewatering. See special provisions.

A FRP pile jacketing system may be used in lieu of pile encasement at the contractor's option. No additional payment will be made for this substitution. See special provisions.

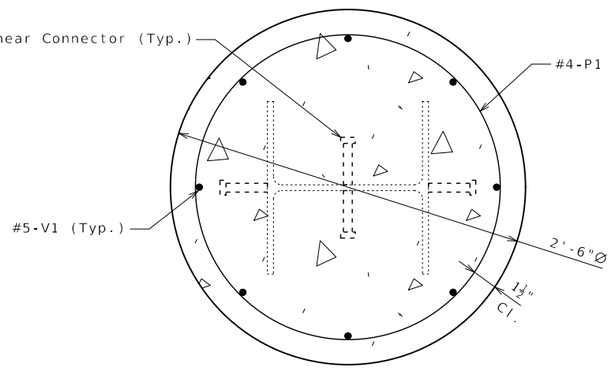
Shear connectors shall be in accordance with Sec 712, 1037 and 1080.

The top of encasement shall be established at the lower of the following elevations:
A) 1'-0" above the bank vegetation line
B) 3" below the lateral pile bracing.



PART ELEVATION SHOWING PILE ENCASEMENT

Note: Existing sway bracing not shown for clarity. Shift reinforcing steel in the field to clear existing sway bracing.



SECTION SHOWING PILE ENCASEMENT

PILE ENCASEMENT

Note:

Pile Encasement to be installed on Bridges No. A53571 & B04281.

STATE OF MISSOURI
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ROUTE VARIOUS
STATE MO
DISTRICT BR
SHEET NO. 4
COUNTY VARIOUS
JOB NO. JSR0053B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. VARIOUS

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