DESIGN DESIGNATION

A.A.D.T. - 2024 = 71,126
A.A.D.T. - 2044 = 84,081
T = 14%
V = 65 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION-INTERSTATE

RIGHT OF WAY
AQUISITION
NOT 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		
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	

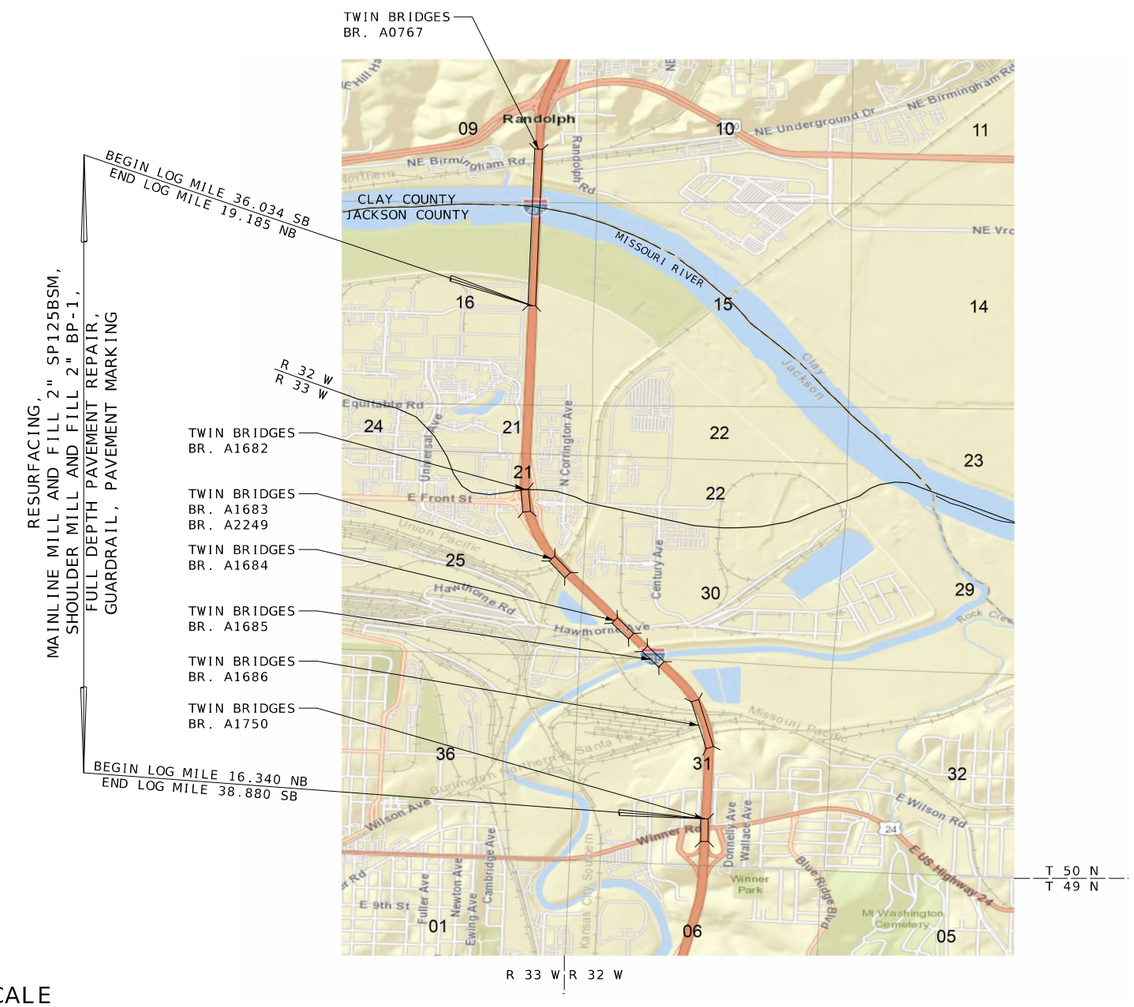
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

JACKSON COUNTY

KEY MAP
LOCATION OF JACKSON COUNTY



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

LENGTH OF PROJECT

BEGINNING OF PROJECT	36.034 SB 16.340 NB
END OF PROJECT	38.880 SB 19.185 NB
APPARENT LENGTH	(SB) 15,026.88 FEET (NB) 15,021.60 FEET

EQUATIONS AND EXCEPTIONS:

SOUTHBOUND

BR. A1682	LM 37.054 TO LM 37.087
BR. A1683	LM 37.355 TO LM 37.447
BR. A1684	LM 37.798 TO LM 37.833
BR. A1685	LM 37.935 TO LM 38.102
BR. A1686	LM 38.271 TO LM 38.453

NORTHBOUND

BR. A1686	LM 16.766 TO LM 16.950
BR. A1685	LM 17.127 TO LM 17.294
BR. A1684	LM 17.386 TO LM 17.421
BR. A2249	LM 17.798 TO LM 17.886
BR. A1682	LM 18.136 TO LM 18.167

TOTAL CORRECTIONS (SB)	2,687.52 FEET
TOTAL CORRECTIONS (NB)	2,666.40 FEET
NET LENGTH OF PROJECT (SB)	12,339.36 FEET
NET LENGTH OF PROJECT (NB)	12,355.20 FEET
STATE LENGTH (SB)	2.337 MILES
STATE LENGTH (NB)	2.340 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.0 ACRES

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 4:04 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	1

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

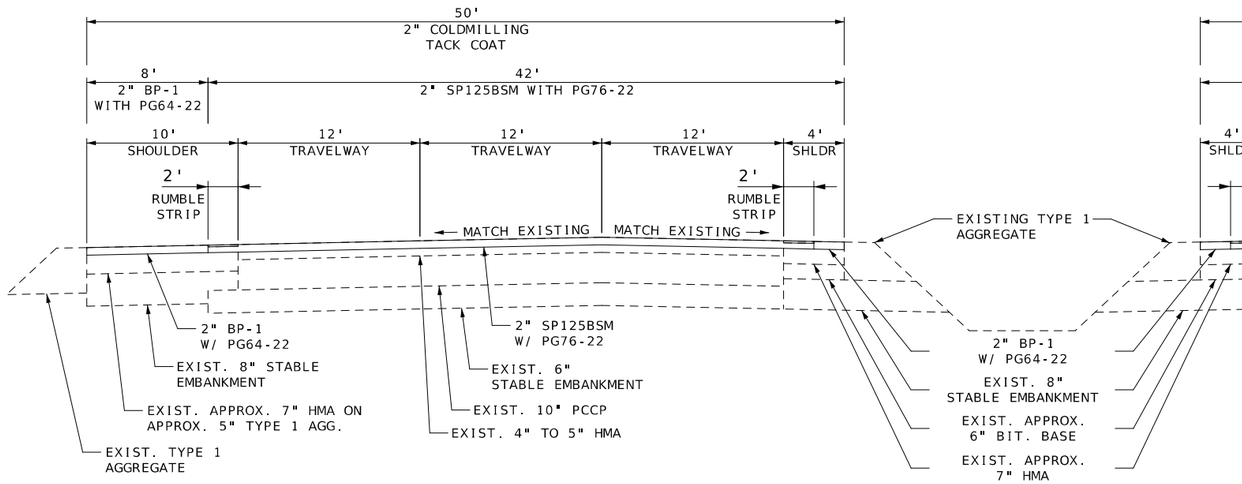
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

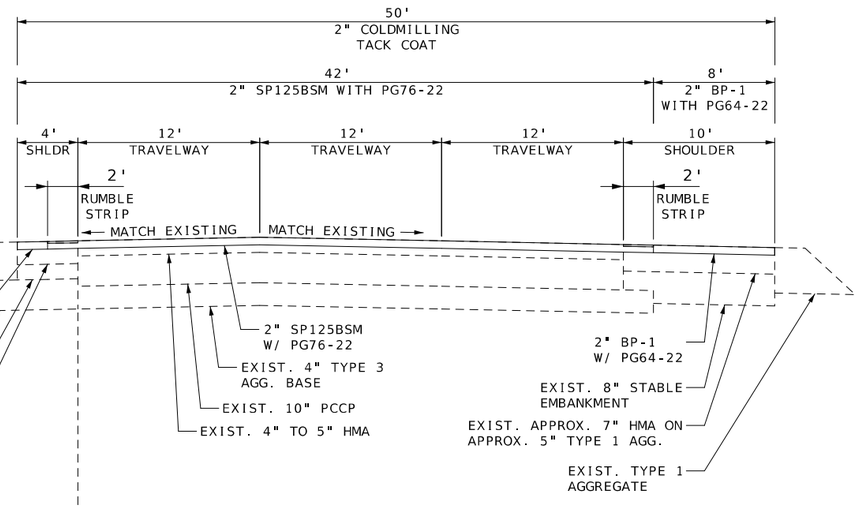
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

NB I-435

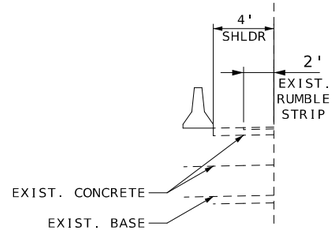


LOG MILE 16.340 TO 16.766 NB
BR. A1686 EXCEPTION LOG MILE 16.766 TO 16.950 NB
LOG MILE 16.950 TO 17.127 NB
BR. A1685 EXCEPTION LOG MILE 17.127 TO 17.294 NB
LOG MILE 17.294 TO 17.386 NB
BR. A1684 EXCEPTION LOG MILE 17.386 TO 17.421 NB
LOG MILE 17.421 TO 17.798 NB
BR. A2249 EXCEPTION LOG MILE 17.798 TO 17.886 NB
LOG MILE 17.956 TO 18.136 NB
BR. A1682 EXCEPTION LOG MILE 18.136 TO 18.167 NB
LOG MILE 18.167 TO 19.068 NB

SB I-435



LOG MILE 36.151 TO 36.645 SB
LOG MILE 36.815 TO 37.054 SB
BR. A1682 EXCEPTION LOG MILE 37.054 TO 37.087 SB
LOG MILE 37.087 TO 37.264 SB
BR. A1684 EXCEPTION LOG MILE 37.798 TO 37.833 SB
LOG MILE 37.833 TO 37.935 SB
BR. A1685 EXCEPTION LOG MILE 37.935 TO 38.102 SB
LOG MILE 38.102 TO 38.271 SB
BR. A1686 EXCEPTION LOG MILE 38.271 TO 38.453
LOG MILE 38.453 to 38.880 SB



LOG MILE 36.034 TO 36.151 SB

ESTIMATE FACTORS (FOR INFORMATION ONLY)	
MIX TYPE	FACTOR
SP125BSM W/ PG 76-22	1.961 (TON/CY)
BP-1 W/ PG 64-22	1.984 (TON/CY)
TACK COAT	0.10 (GAL/SY)

TYPICAL SECTIONS
I-435
SHEET 1 OF 4

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 2:33 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

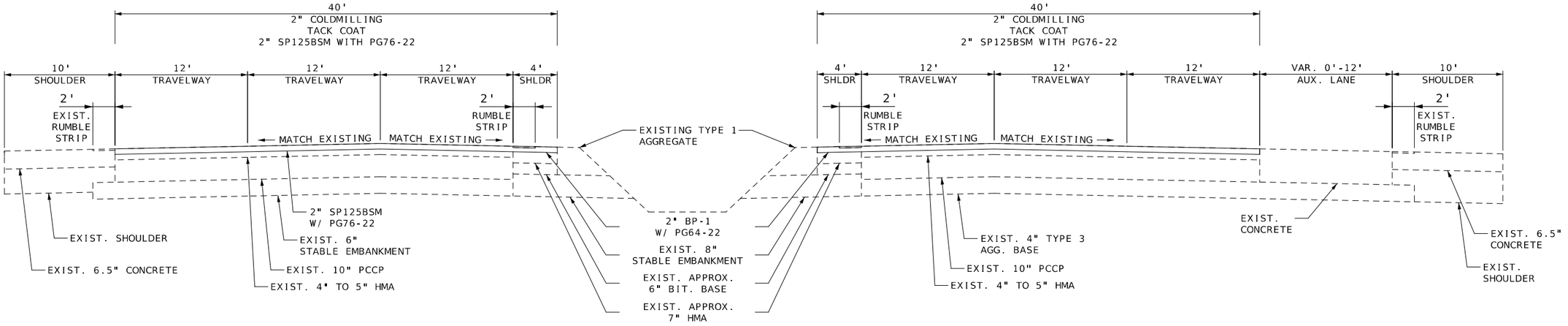
PROJECT NO.

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 I-435

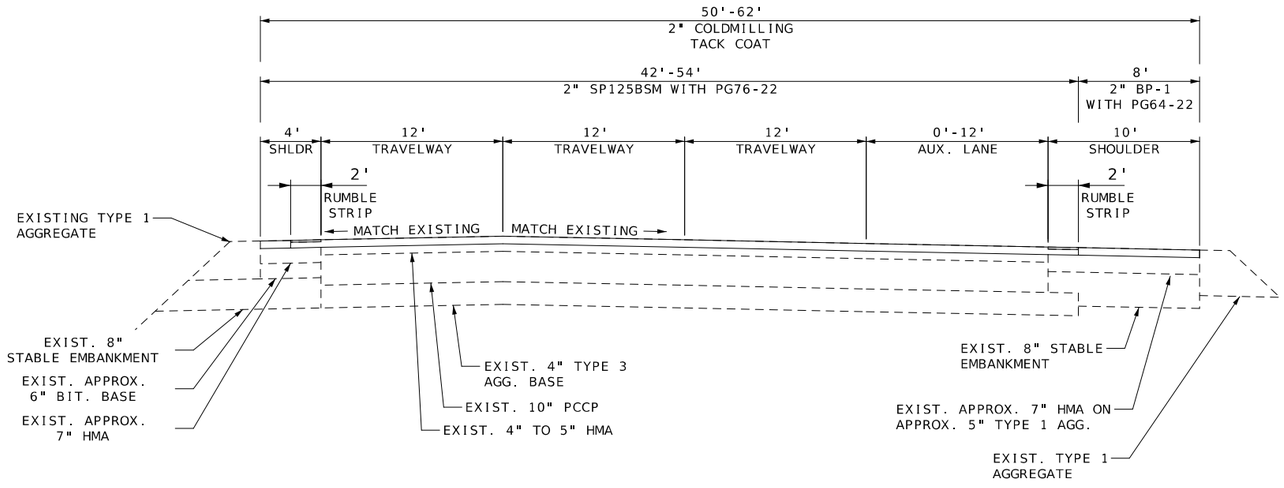


LOG MILE 19.068 TO 19.185 NB

SB I-435

LOG MILE 37.447 TO LOG 37.798 SB
BR. A1684 EXCEPTION LOG MILE 37.798 TO 37.833 SB

SB I-435
NB I-435



LOG MILE 36.645 TO 36.815 SB
LOG MILE 37.264 TO 37.355 SB
BR. A1683 EXCEPTION LOG MILE 37.355 TO 37.447 SB

LOG MILE 17.886 TO 17.956 NB

TYPICAL SECTIONS
I-435
SHEET 2 OF 4

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 PM
THANKAM MATHEW- CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
JACKSON

JOB NO.
JKU0036

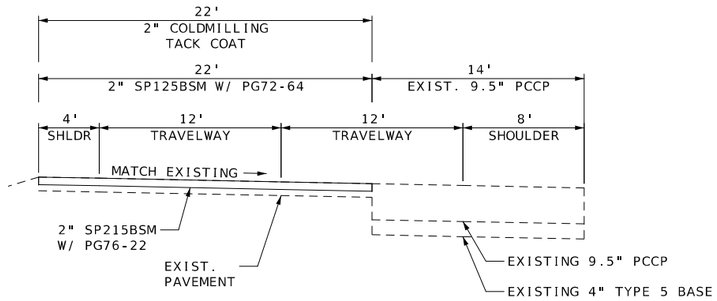
CONTRACT ID.

PROJECT NO.

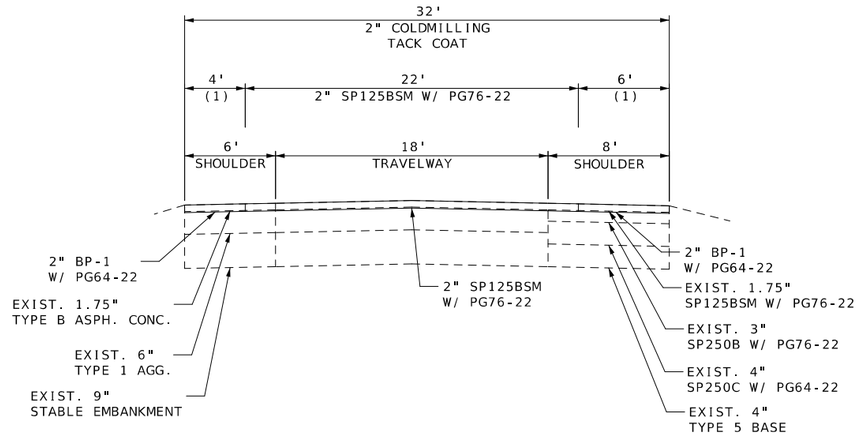
BRIDGE NO.

DESCRIPTION	DATE

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

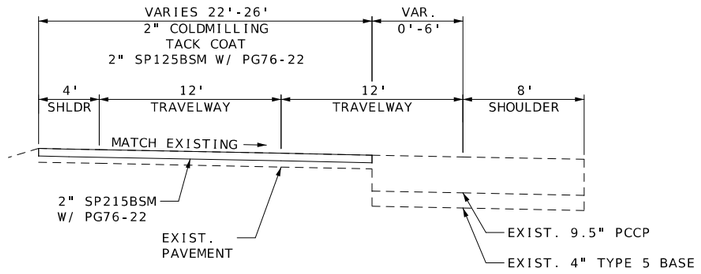


LOG MILE 0.103 TO 0.217
WB FRONT ST. TO NB I-435 ON RAMP

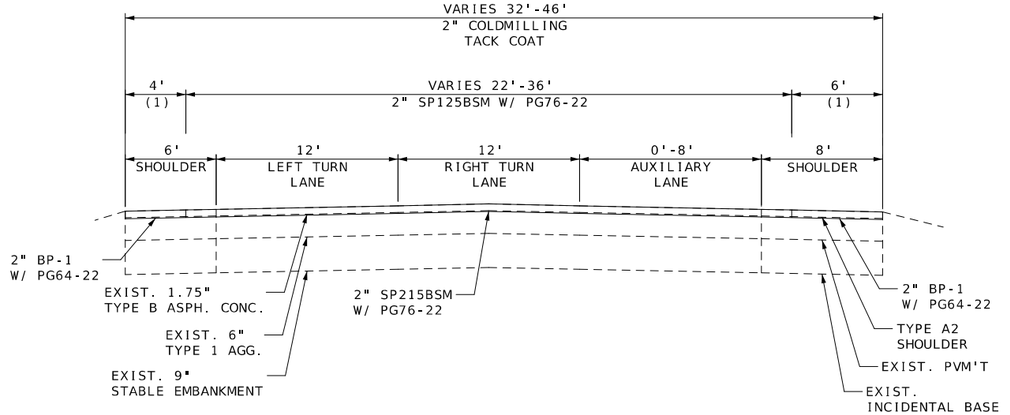


LOG MILE 0.000 TO 0.116
SB I-435 OFF RAMP TO EB FRONT ST.

NOTE:
(1) 2" BP-1 WITH PG64-22



LOG MILE 0.217 TO 0.261
WB FRONT ST. TO NB I-435 ON RAMP



LOG MILE 0.116 TO 0.194
SB I-435 OFF RAMP TO FRONT ST. E

TYPICAL SECTIONS
RAMPS AT FRONT ST.
SHEET 3 OF 4

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03:17 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
JACKSON

JOB NO.
JKU0036

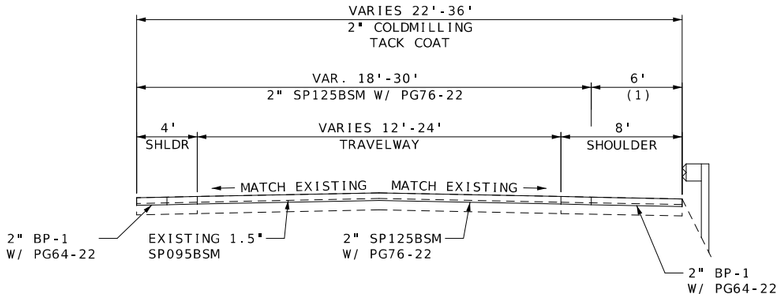
CONTRACT ID.

PROJECT NO.

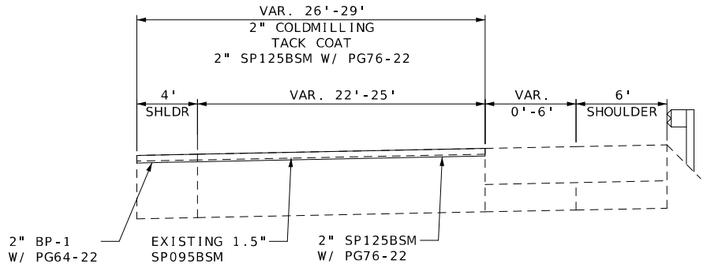
BRIDGE NO.

DESCRIPTION	DATE

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

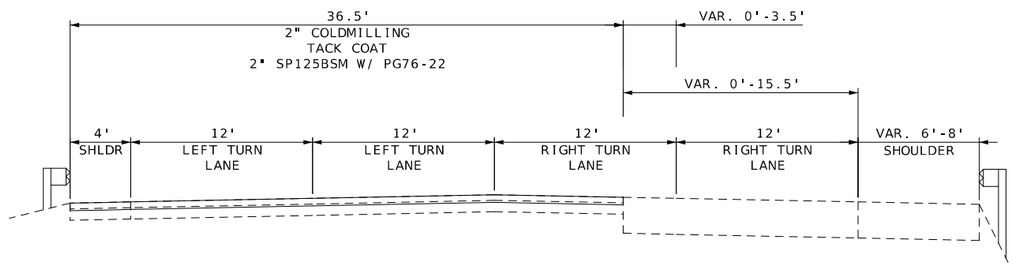


LOG MILE 0.000 TO 0.042
NB I-435 OFF RAMP TO EB FRONT ST.

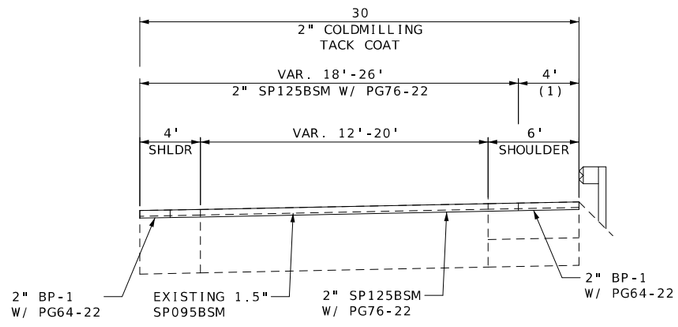


LOG MILE 0.066 TO 0.172
WB FRONT ST. TO SB I-435 ON RAMP

NOTE:
(1) 2" BP-1 WITH PG64-22



LOG MILE 0.042 TO 0.117
NB I-435 OFF RAMP TO EB FRONT ST.



LOG MILE 0.172 TO 0.209
WB FRONT ST. TO SB I-435 ON RAMP

TYPICAL SECTIONS
RAMPS AT FRONT ST.
SHEET 4 OF 4

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 7 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
JACKSON

JOB NO.
JKU0036

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)

SOUTH BOUND COLDMILLING QUANTITIES

BEGIN LOG MILE SB	END LOG MILE SB	LENGTH FT	LOCATION	MAINLINE WIDTH FT	SHOULDER WIDTH FT	MAINLINE COLDMILLING (3 IN. THICK OR LESS) SY	SHOULDER COLDMILLING (3 IN. THICK OR LESS) SY	REMARKS
36.034	36.151	617.76	I-435	40	10	2,745.7	686.5	BEGIN PROJECT
36.151	36.645	2608.32	I-435	40	10	11,592.6	2,898.2	
36.645	36.815	897.6	I-435	VARIES 40'-52'	10	4,587.8	997.4	
36.815	37.054	1261.92	I-435	40	10	5,608.6	1,402.2	BR. A1682 EXCEPTION
37.087	37.264	934.56	I-435	40	10	4,153.6	1,038.4	
37.264	37.355	480.48	I-435	52	10	2,776.2	533.9	BR. A1683 EXCEPTION
37.447	37.798	1853.28	I-435	38	2	7,825.0	411.9	BR. A1684 EXCEPTION
37.833	37.935	538.56	I-435	40	10	2,393.7	598.5	BR. A1685 EXCEPTION
38.102	38.271	892.32	I-435	40	10	3,965.9	991.5	BR. A1686 EXCEPTION
38.453	38.880	2254.56	I-435	40	10	10,020.3	2,505.1	END PROJECT
SUBTOTAL						55,669.4	12,063.6	
SUBTOTAL						67,733.0		
SUBTOTAL (1)						67,733		

NORTH BOUND COLDMILLING QUANTITIES

BEGIN LOG MILE NB	END LOG MILE NB	LENGTH FT	LOCATION	MAINLINE WIDTH FT	SHOULDER WIDTH FT	MAINLINE COLDMILLING (3 IN. THICK OR LESS) SY	SHOULDER COLDMILLING (3 IN. THICK OR LESS) SY	REMARKS
16.340	16.766	2249.28	I-435	40	10	9,996.8	2,499.2	END PROJECT, BR. A1686 EXCEPTION
16.950	17.127	934.56	I-435	40	10	37,382.4	1,038.4	BR. A1685 EXCEPTION
17.294	17.386	485.76	I-435	40	10	2,159.0	539.8	BR. A1684 EXCEPTION
17.421	17.798	1990.56	I-435	40	10	8,847.0	2,211.8	BR. A2249 EXCEPTION
17.886	17.956	369.6	I-435	40	10	1,642.7	410.7	
17.956	18.136	950.4	I-435	40	10	4,224.0	1,056.0	BR. A1682 EXCEPTION
18.167	19.068	4757.28	I-435	40	10	21,143.5	5,285.9	
19.068	19.185	617.76	I-435	38	2	2,608.4	137.3	BEGIN PROJECT
SUBTOTAL						85,395.4	13,179.1	
SUBTOTAL						98,574.5		
SUBTOTAL (2)						98,575		

RAMPS COLDMILLING QUANTITIES

BEGIN LOG MILE	END LOG MILE	LOCATION	LENGTH FT	MAINLINE WIDTH FT	SHOULDER WIDTH FT	MAINLINE COLDMILLING (3 IN. THICK OR LESS) SY	SHOULDER COLDMILLING (3 IN. THICK OR LESS) SY	REMARKS
0.103	0.217	WB FRONT ST. TO NB I-435 ON RAMP	601.92	20	2	1,337.6	133.8	FRONT ST.
0.217	0.261	WB FRONT ST. TO NB I-435 ON RAMP	232.32	VAR. 20'-24'	2	567.9	51.7	FRONT ST.
0.000	0.116	SB I-435 OFF RAMP TO EB FRONT ST.	612.48	22	10	1,497.2	680.6	FRONT ST.
0.116	0.156	SB I-435 OFF RAMP TO EB FRONT ST.	211.2	VAR. 22'-36'	10	680.6	234.7	FRONT ST.
0.156	0.194	SB I-435 OFF RAMP TO EB FRONT ST.	200.64	36	10	802.6	223.0	FRONT ST.
0.000	0.042	NB I-435 OFF RAMP TO EB FRONT ST.	221.76	VAR. 16'-28'	8	542.1	197.2	FRONT ST.
0.042	0.117	NB I-435 OFF RAMP TO EB FRONT ST.	396	34.5	2	1,518.0	88.0	FRONT ST.
0.066	0.172	WB FRONT ST. TO SB I-435 ON RAMP	559.68	VAR. 24'-27'	2	1,585.8	124.4	FRONT ST.
0.172	0.209	WB FRONT ST. TO SB I-435 ON RAMP	195.36	VAR. 16'-26'	6	455.9	130.3	FRONT ST.
SUBTOTAL						8,987.7	1,863.7	
SUBTOTAL (3)						10,851.4		
SUBTOTAL (1) + SUBTOTAL (2) + SUBTOTAL (3)						177,159.0		
PAY TOTAL						177,159		

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	3

COUNTY
JACKSON

JOB NO.
JKU0036

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)

SUMMARY OF QUANTITIES
SHEET 1 OF 6

SOUTHBOUND PAVEMENT QUANTITIES

BEGIN LOG MILE SB	END LOG MILE SB	LENGTH FT	LOCATION	MAINLINE WIDTH FT	SHOULDER WIDTH FT	MAINLINE 2" SP125BSM PG 72-22 TON	SHOULDER 2" BP-1 PG 64-22 TON	MAINLINE TACK COAT GAL	SHOULDER TACK COAT GAL	REMARKS
36.034	36.151	617.76	I-435	38	8	284.2	60.6	260.9	55.0	BEGIN PROJECT
36.151	36.645	2608.32	I-435	42	8	1326.1	255.6	1217.3	231.9	
36.645	36.692	248.16	I-435	VARIES 42'-54'	8	144.2	24.4	126.9	22.1	
36.692	36.815	649.44	I-435	54	10	424.6	79.6	389.7	72.2	
36.815	37.054	1261.92	I-435	42	8	641.6	123.7	588.9	112.2	BR. A1682 EXCEPTION
37.087	37.264	934.56	I-435	42	8	475.2	91.6	436.2	83.1	
37.264	37.355	480.48	I-435	54	8	314.1	47.1	288.3	42.8	BR. A1683 EXCEPTION
37.447	37.798	1853.28	I-435	40		897.4		823.7		BR. A1684 EXCEPTION
37.833	37.935	538.56	I-435	42	8	273.9	52.8	251.4	47.9	BR. A1685 EXCEPTION
38.102	38.271	892.32	I-435	42	8	453.7	87.5	416.5	79.4	BR. A1686 EXCEPTION
38.453	38.880	2254.56	I-435	42	8	1146.3	220.9	1052.2	200.5	END PROJECT
SUBTOTAL						6381.3	1043.8	5852.0	947.1	
SUBTOTAL						6381.3	1043.8	6799.1		
SUBTOTAL (1)						6,381.3	1,043.8	6,800		

NORTHBOUND PAVEMENT QUANTITIES

BEGIN LOG MILE NB	END LOG MILE NB	LENGTH FT	LOCATION	MAINLINE WIDTH FT	SHOULDER WIDTH FT	MAINLINE 2" SP125BSM PG 72-22 TON	SHOULDER 2" BP-1 PG 64-22 TON	MAINLINE TACK COAT GAL	SHOULDER TACK COAT GAL	REMARKS
16.340	16.766	2249.28	I-435	42	8	1143.6	220.4	1050	200	END PROJECT, BR. A1686 EXCEPTION
16.950	17.127	934.56	I-435	42	8	475.2	91.6	437	84	BR. A1685 EXCEPTION
17.294	17.386	485.76	I-435	42	8	247	47.6	227	44	BR. A1684 EXCEPTION
17.421	17.798	1990.56	I-435	42	8	1012.1	195.1	929	177	BR. A2249 EXCEPTION
17.886	17.956	369.6	I-435	VARIES 48'-54'	8	188	36.3	226.5	33	
17.956	18.136	950.4	I-435	42	8	483.2	93.2	444	85	BR. A1682 EXCEPTION
18.167	19.068	4757.28	I-435	42	8	2418.7	466.1	2221	423	
19.068	19.185	617.76	I-435	40		299.2		275		END PROJECT
SUBTOTAL						6267.0	1150.3	5809.5	1046.0	
SUBTOTAL						6267.0	1150.3	6855.5		
SUBTOTAL (2)						6,267.0	1,150.3	6,856		

RAMPS PAVEMENT QUANTITIES

BEGIN LOG MILE NB	END LOG MILE NB	LENGTH FT	LOCATION	MAINLINE WIDTH FT	SHOULDER WIDTH FT	MAINLINE 2" SP125BSM PG 72-22 TON	SHOULDER 2" BP-1 PG 64-22 TON	MAINLINE TACK COAT GAL	SHOULDER TACK COAT GAL	REMARKS
0.103	0.217	601.92	WB FRONT ST. TO NB I-435 ON RAMP	22		160.3		148		FRONT ST.
0.217	0.261	232.32	WB FRONT ST. TO NB I-435 ON RAMP	VAR. 22'-26'		67.5		62		FRONT ST.
0.000	0.116	612.48	SB I-435 OFF RAMP TO EB FRONT ST.	22	10	163.2	75.1	150	69	FRONT ST.
0.116	0.156	211.2	SB I-435 OFF RAMP TO EB FRONT ST.	VAR. 22'-36'	10	74.2	25.9	69	24	FRONT ST.
0.156	0.194	200.64	SB I-435 OFF RAMP TO EB FRONT ST.	36	10	87.5	24.6	81	23	FRONT ST.
0.000	0.042	221.76	NB I-435 OFF RAMP TO EB FRONT ST.	VAR. 18'-30'	6	64.5	`	60	15	FRONT ST.
0.042	0.117	396	NB I-435 OFF RAMP TO EB FRONT ST.	36.5		175		161		FRONT ST.
0.066	0.172	559.68	WB FRONT ST. TO SB I-435 ON RAMP	VAR. 26'-29'		186.4		172		FRONT ST.
0.172	0.209	195.36	WB FRONT ST. TO SB I-435 ON RAMP	VAR. 18'-26'	4	52.1	9.6	48	9	FRONT ST.
SUBTOTAL						1030.70	135.20	951.00	140.00	
SUBTOTAL						1030.70	135.20	1091.00		
SUBTOTAL (3)						1030.7	135.2	1091		
SUBTOTAL (1) + SUBTOTAL (2) + SUBTOTAL (3)						13679.0	2329.3	14747		
PAY TOTAL						13,679.0	2,329.3	14,747		

SUMMARY OF QUANTITIES
SHEET 2 OF 6

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
09/05/2024 2:34 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
9/4/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	3

COUNTY
JACKSON

JOB NO.
JKU0036

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)

SHOULDER RUMBLE STRIP

BEGIN LOG MILE SB	END LOG MILE SB	LENGTH FT	LOCATION	DIRECTION	BIT. SHLDR RUMBLE STRIP STA.	REMARKS
36.034	36.222	992.64	I-435	SB	9.93	RT SHOULDER
36.222	36.652	2270.4	I-435	SB	45.41	LT/RT SHOULDER
36.652	36.857	1082.4	I-435	SB	10.82	LT SHOULDER
36.857	37.054	1040.16	I-435	SB	20.80	LT/RT SHOULDER, BR. A1682 EXCEPTION
37.087	37.160	385.44	I-435	SB	3.85	RT SHOULDER
37.160	37.237	406.56	I-435	SB	8.13	LT/RT SHOULDER
37.237	37.277	211.2	I-435	SB	2.11	LT SHOULDER
37.477	37.789	1647.36	I-435	SB	16.47	LT SHOULDER
37.789	37.798	47.52	I-435	SB	0.95	LT/RT SHOULDER, BR. A1684 EXCEPTION
37.833	37.935	538.56	I-435	SB	5.39	RT SHOULDER, BR. A1685 EXCEPTION
38.102	38.271	892.32	I-435	SB	8.92	RT SHOULDER, BR. A1686 EXCEPTION
38.453	38.880	2254.56	I-435	SB	45.09	LT/RT SHOULDER
16.340	16.445	554.4	I-435	NB	5.54	LT SHOULDER
16.445	16.766	1694.88	I-435	NB	33.90	LT/RT SHOULDER, BR. A1686 EXCEPTION
16.950	17.127	934.56	I-435	NB	18.69	LT/RT SHOULDER, BR. A1685 EXCEPTION
17.294	17.386	485.76	I-435	NB	9.72	LT/RT SHOULDER, BR. A1684 EXCEPTION
17.421	17.798	1990.56	I-435	NB	39.81	LT/RT SHOULDER, BR. A2249 EXCEPTION
17.886	18.000	601.92	I-435	NB	6.02	LT SHOULDER
18.000	18.136	718.08	I-435	NB	14.36	LT/RT SHOULDER, BR. A1682 EXCEPTION
18.167	18.323	823.68	I-435	NB	16.47	LT/RT SHOULDER
18.323	18.439	612.48	I-435	NB	6.12	LT SHOULDER
18.439	19.068	3321.12	I-435	NB	66.42	LT/RT SHOULDER
19.068	19.185	617.76	I-435	NB	6.18	RT SHOULDER
TOTAL					401.10	
PAY TOTAL					401.1	

PERMANENT AGGREGATE EDGE TREATMENT

BEGIN LOG MILE	END LOG MILE	LENGTH FT	LOCATION	DIRECTION	* PERMANENT AGGREGATE EDGE TREATMENT TON	REMARKS
36.221	36.278	300.96	I-435	SB	0.29	LT SHOULDER
36.278	36.450	908.16	I-435	SB	1.76	LT/RT SHOULDER
36.450	36.509	311.52	I-435	SB	0.30	LT SHOULDER
36.509	36.790	1483.68	I-435	SB	2.87	LT/RT SHOULDER
36.790	37.017	1198.56	I-435	SB	1.16	LT SHOULDER
37.087	37.257	897.6	I-435	SB	0.87	LT SHOULDER
37.520	37.760	1267.2	I-435	SB	1.23	LT SHOULDER
38.491	38.595	549.12	I-435	SB	0.53	LT SHOULDER
38.595	38.669	390.72	I-435	SB	0.76	LT/RT SHOULDER
38.669	38.702	174.24	I-435	SB	0.17	LT SHOULDER
38.702	38.804	538.56	I-435	SB	1.04	LT/RT SHOULDER
38.804	38.833	153.12	I-435	SB	0.15	LT SHOULDER
0.000	0.194	1024.32	I-435 TO EB FRONT ST.	SB	1.98	LT/RT SHOULDER
16.340	16.368	147.84	I-435	NB	0.14	RT SHOULDER
16.368	16.466	517.44	I-435	NB	0.50	LT SHOULDER
16.466	16.716	1320	I-435	NB	1.28	LT SHOULDER
17.494	17.755	1378.08	I-435	NB	1.33	LT SHOULDER
18.035	18.120	448.8	I-435	NB	0.43	LT SHOULDER
18.240	18.361	638.88	I-435	NB	0.62	LT SHOULDER
18.361	18.865	2661.12	I-435	NB	5.15	LT/RT SHOULDER
18.865	18.984	628.32	I-435	NB	0.61	LT SHOULDER
0.042	0.114	380.16	I-435 TO EB FRONT ST.	NB	0.37	LT SHOULDER
0.103	0.261	834.24	WB FRONT ST. TO I-435	NB	1.61	LT/RT SHOULDER
TOTAL					25.15	
PAY TOTAL					25.2	

*ASSUME 2" DEPTH, 2' WIDE

SOUTHBOUND GUARDRAIL

LOG MILE	LENGTH FT	LOCATION	DIRECTION	LT/RT	MGS GUARDRAIL FT	MGS END ANCHOR EA	MGS BRIDGE APPROACH SECTION (REGULAR/ NO CURB) EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CLASS III STA	REMARKS
37.117	500	SOUTH OF BR. A1682	SB	RT	487.5	1			5	
37.447	1787.5	SOUTH OF BR. A1683	SB	RT	1725	1	1		17.875	
37.835	475	SOUTH OF BR. A1684	SB	RT	425		1		4.75	EXCEPT TRANSITION ON BR. A1685
38.115	712.5	SOUTH OF BR. A1685	SB	RT	712.5				7.125	
38.850	137.5	SOUTH OF BR. A1686	SB	RT	87.5		1		1.375	
SUBTOTAL (1)					3437.5	2	3	0	36.2	

NORTHBOUND GUARDRAIL

LOG MILE	LENGTH FT	LOCATION	DIRECTION	LT/RT	MGS GUARDRAIL FT	MGS END ANCHOR EA	MGS BRIDGE APPROACH SECTION (REGULAR/ NO CURB) EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CLASS III STA	ANCHOR ASSEMBLY GUARD CABLE 3-STRAND EA	REMARKS
16.353	150	NORTH OF BR. A1750	NB	LT	137.5	1			1.5		EXCEPT THRIE BEAM
16.521	25	UNDER BR. A1712/WILSON AVE.	NB	LT	12.5	1			0.25		REPLACE NORTH OF THRIE BEAM
16.711	287.5	SOUTH OF BR. A1686	NB	LT	187.5			1	2.875		EXCEPT BR. TRANSITION SECTION
18.096	100	SOUTH OF BR. A1682	NB	LT	50			1	1		ATTACHED TO GUARD CABLE
18.199	212.5	NORTH OF BR. A1682	NB	LT	212.5				2.125		
18.376	75	NORTH OF FRONT ST. RP TO NB I-435	NB	LT				1	0.75	1	ADDRESS GUARD CABLE ANCHOR
0.000	750	NB I-435 OFF RP TO EB FRONT ST.	NB	RT	737.5	1			7.5		OFF RAMP
SUBTOTAL (2)					1337.5	3	0	3	16	1	
SUBTOTAL (1) + SUBTOTAL (2)					4775	5	3	3	52.2	1	
PAY TOTAL					4775	5	3	3	53	1	

SUMMARY OF QUANTITIES
SHEET 3 OF 6

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 4:49 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	3

COUNTY
JACKSON

JOB NO.
JKU0036

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)

SOUTHBOUND PAVEMENT MARKING

BEGIN LOG MILE SB	END LOG MILE SB	LENGTH FT	LOCATION	HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS					REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" DOTTED WHITE LF	6" SOLID YELLOW LF	12" SOLID WHITE LF	
36.034	36.703	3532.32	I-435	1766.16	3532.32		3532.32		3 LANES
36.703	36.792	469.92	I-435	234.96	469.92	117.48	469.92		3 LANES TO 4 LANES
36.792	36.849	300.96	I-435	150.48			300.96	300.96	3 LANES
36.849	37.233	2027.52	I-435	1013.76	2027.52		2027.52		3 LANES
37.233	37.304	374.88	I-435	187.44			374.88	374.88	3 LANES TO 4 LANES
37.304	37.512	1098.24	I-435	549.12	2196.48		1098.24		4 LANES, PAST E FRONT. ST.
37.512	37.717	1082.4	I-435	541.20	1082.40	270.60	1082.40		4 LANES
37.717	38.880	6140.64	I-435	3070.32	6140.64		6140.64		4 LANES TO 3 LANES
SUBTOTAL				7,513.44	15,449.28	388.08	15,026.88	675.84	
SUBTOTAL				23,350.80			15,026.88	675.84	
SUBTOTAL (1)				23,351			15,027	676	

NORTHBOUND PAVEMENT MARKING

BEGIN LOG MILE NB	END LOG MILE NB	LENGTH FT	LOCATION	HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS					REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" DOTTED WHITE LF	6" SOLID YELLOW LF	12" SOLID WHITE LF	
16.340	17.880	8131.2	I-435	4065.60	8131.20		8131.20		3 LANES
17.880	17.956	401.28	I-435	200.64	401.28	100.32	401.28		3 LANES TO 4 LANES
17.956	17.985	153.12	I-435	76.56			153.12	153.12	3 LANES
17.985	18.348	1916.64	I-435	958.32	1916.64		1916.64		3 LANES
18.348	18.393	237.6	I-435	118.80			237.60	237.60	3 LANES TO 4 LANES
18.393	18.486	491.04	I-435	245.52	491.04	122.76	491.04		4 LANES, PAST E FRONT ST.
18.486	19.185	3690.72	I-435	1845.36	3690.72		3690.72		4 LANES TO 3 LANES
SUBTOTAL				7,510.80	14,630.88	223.08	15,021.60	390.72	
SUBTOTAL				22,364.76			15,021.60	390.72	
SUBTOTAL (2)				22,365			15,022	391	

RAMPS PAVEMENT MARKING

BEGIN LOG MILE	END LOG MILE	LENGTH FT	LOCATION	HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS					REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" DOTTED WHITE LF	6" SOLID YELLOW LF	12" SOLID WHITE LF	
0.000	0.036	190.08	SB I-435 TO EB FRONT ST.		190.08			190.08	OFF RAMP
0.036	0.145	575.52	SB I-435 TO EB FRONT ST.		575.52		575.52		OFF RAMP
0.145	0.165	105.6	SB I-435 TO EB FRONT ST.	26.40	220.60		105.60		OFF RAMP
0.165	0.206	216.48	SB I-435 TO EB FRONT ST.		649.44		216.48		OFF RAMP
0.206	0.259	279.84	SB I-435 TO EB FRONT ST.		279.84		559.68		
0.206	0.286	422.4	SB I-435 TO WB FRONT ST.		1267.20				
0.028	0.080	274.56	EB FRONT ST. TO SB I-435		549.12				TURN LANE TO RAMP
0.000	0.040	211.2	WB FRONT ST. TO SB I-435		211.20		211.20		TURN LANE TO RAMP
0.040	0.170	686.4	WB FRONT ST. TO SB I-435		686.40		686.40		ON RAMP
0.170	0.209	205.92	WB FRONT ST. TO SB I-435		205.92			205.92	ON RAMP
0.000	0.045	237.6	NB I-435 TO WB FRONT ST.	237.60	237.60			237.60	OFF RAMP
0.045	0.069	126.72	NB I-435 TO WB FRONT ST.	126.72	126.72		126.72		OFF RAMP
0.069	0.117	253.44	NB I-435 TO WB FRONT ST.	190.08	253.44		253.44		OFF RAMP
0.117	0.146	153.12	NB I-435 TO WB FRONT ST.		612.48		153.12		OFF RAMP
0.146	0.189	227.04	NB I-435 TO WB FRONT ST.		681.12		454.08		OFF RAMP TO TURN LANE
0.146	0.200	285.12	NB I-435 TO EB FRONT ST.		1425.60				OFF RAMP TO TURN LANE
SUBTOTAL				580.80	8,172.28	0.00	3,342.24	633.60	
SUBTOTAL				8,753.08			3,342.24	633.60	
SUBTOTAL (3)				8,754			3,343	634	
SUB TOTAL (1) + SUB TOTAL (2) + SUB TOTAL (3)				54,470			33,392	1,701	
PAY TOTAL				54,470			33,392	1,701	

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 2:49:39 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	3

COUNTY
JACKSON

JOB NO.
JKU0036

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)

SUMMARY OF QUANTITIES
SHEET 4 OF 6

RAMPS PAVEMENT MARKING

BEGIN LOG MILE	END LOG MILE	LENGTH FT	LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE SOLID LF	24" YELLOW SOLID LF	LEFT/RIGHT ARROW EA	REMARKS
0.000	0.165	871.2	SB I-435 TO EB FRONT ST.	21.00			2 HASH BARS
0.165	0.206	216.48	SB I-435 TO EB FRONT ST.	34.00		2.00	2 HASH BARS
0.206	0.259	279.84	SB I-435 TO EB FRONT ST.		16.00		7 HASH BARS
0.206	0.286	422.4	SB I-435 TO WB FRONT ST.	11.00			7 HASH BARS
0.117	0.146	153.12	NB I-435 TO WB FRONT ST.			4.00	
0.146	0.189	227.04	NB I-435 TO WB FRONT ST.	25.00	12.00		7 HASH BARS AND 4 CHEVRONS
0.146	0.200	285.12	NB I-435 TO EB FRONT ST.	116.00			7 HASH BARS AND 5 CHEVRONS
SUBTOTAL				207.00	28.00	6.00	
PAY TOTAL				207	28	6	

FULL DEPTH PAVEMENT REPAIR (SB AND NB)

LENGTH FT	WIDTH FT	AREA SY	NUMBER OF LOCATIONS EA	SAW CUTS LF	FURN./PLACING CONCRETE MATERIAL SY	SUBGRADE COMPACTION (6 IN. DEPTH) SY	4 IN. TYPE 1 OR 5 AGGREGATE FOR BASE SY	DOWEL BAR EA	REMARKS
6	12	8	16	576	128.0	12.8	1.28	960	VARIOUS LOCATIONS
PAY TOTAL				576	128.0	13	2	960	

REMOVAL OF IMPROVEMENTS

BEGIN LOG SB	DIRECTION	ITEM	UNIT	QUANTITY	REMARKS
37.117	SB	GUARDRAIL	LF	500	
37.447	SB	GUARDRAIL	LF	1787.5	
37.835	SB	GUARDRAIL	LF	475	EXCEPT TRANSITION ON BR. A1685
38.115	SB	GUARDRAIL	LF	712.5	
38.850	SB	GUARDRAIL	LF	137.5	
16.353	NB	GUARDRAIL	LF	150	NORTH OF BR. A1750
16.521	NB	GUARDRAIL	LF	25	UNDER BR. A1712/WILSON AVE.
16.711	NB	GUARDRAIL	LF	287.5	SOUTH OF BR. A1686
18.096	NB	GUARDRAIL	LF	100	SOUTH OF BR. A1682
18.199	NB	GUARDRAIL	LF	212.5	NORTH OF BR. A1682
18.376	NB	GUARDRAIL	LF	75	NORTH OF FRONT ST. RP TO NB I-435
0.000	NB	GUARDRAIL	LF	750	NB I-435 OFF RP TO EB FRONT ST.
PAY TOTAL					1 LUMP SUM

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 5 OF 6

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 7:04:24 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	3

COUNTY
JACKSON

JOB NO.
JKU0036

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)

EFFECTIVE: 04-01-2024

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	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	2	32				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	4	64				YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						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						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	4	64				MERGE (LEFT)
WO4-1aR	48X48	16.00	4	64				MERGE (RIGHT)
WO5-1	48X48	16.00	4	64				ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00	4	64				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	4	20				NEXT 1.5 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	4	25				ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	14	224				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	4	64				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00	4	64				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	4	64				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	8	128				SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	4	48				GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	4	40				ROAD WORK NEXT 3.3 MILES
GO20-2	48X24	8.00	4	32				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	4	24				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	4	27.72				YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	8	96				SPEED LIMIT 65
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						ROAD CLOSED
R11-3a	60X30	12.50						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				POINT OF PRESENCE
CONST-7	48X24	8.00						RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00	4	48				WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	1330

616-10.10 RELOCATED SIGNS	TOTAL
	0

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)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	4	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	450	CHANNELIZER (TRIM LINE)
6161030	22	TYPE III MOVEABLE BARRICADE
6161033	60	DIRECTION INDICATOR BARRICADE
6161040	8	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055	60	SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	2	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099		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
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES

SHEET 6 OF 6

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
09/05/2024 12:41:19 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
9/4/2024

ROUTE	STATE
435	MO

DISTRICT	SHEET NO.
KC	3

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

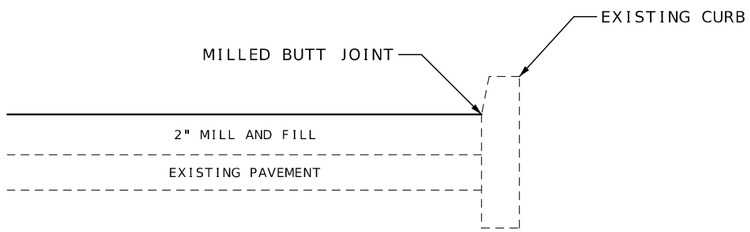
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DETAIL BY CONCRETE PAVEMENT

NOTES:
(1) TRANSITION MAY BE ADJUSTED TO MATCH FIELD CONDITIONS AS APPROVED BY ENGINEER



RESURFACING DETAIL
CONCRETE CURB

SPECIAL SHEET
1 OF 1

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 7:31 PM
THANKAM.MATHEW-CIVIL
MO-PE-2014000056

DATE PREPARED
7/2/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	4

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Traffic Control Legend, Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED 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′

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED	MINIMUM LANE TAPER LENGTH (3)			
MPH	10′	11′	12′	END TREATMENT (4)
<40	160′	168′	176′	BARRIER HEIGHT TRANSITION
>40	160′	168′	176′	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED	MINIMUM LANE TAPER LENGTH (L) (3)			MINIMUM SHOULDER TAPER LENGTH (T1)	BUFFER LENGTH	MAXIMUM CHANNELIZER SPACING	
						THROUGH	THROUGH
MPH	10′	11′	12′	BASED ON 10′ SHOULDER	FT	TAPER	WORK AREA
0–35	205′	225′	245′	70′	280′	35′	40′
40–45	450′	495′	540′	150′	400′	40′	80′
50–55	550′	605′	660′	185′	560′	50′	80′
60–70	700′	770′	840′	235′	840′	60′	120′

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

DETAILS NOTES:

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.

(2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

(3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER

(4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

TAPER LENGTH (L)

L = W X P FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW PANEL AND REAR-MOUNTED IMPACT ATTENUATOR UNIT.
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE BOARD
- BARRICADE

LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ON MINOR ROUTES ONLY.
5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

EPG TABLE 616.12 RECOMMENDED MAXIMUM SPEED REDUCTIONS	
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.	

TEMPORARY TRAFFIC CONTROL
SHEET 1 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 7:47 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED 7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	5

COUNTY JACKSON

JOB NO. JKU0036

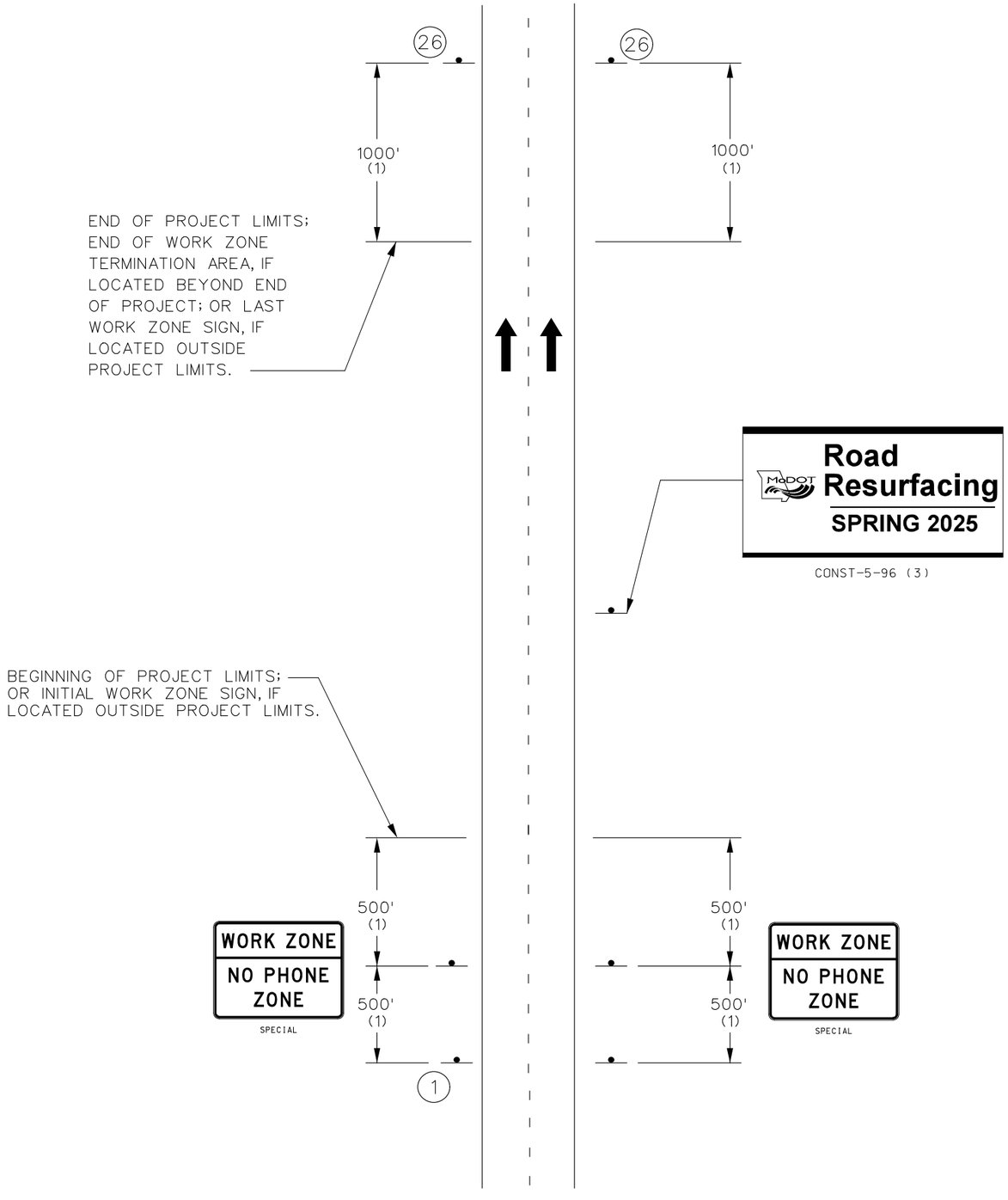
CONTRACT ID.

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)



BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)

MULTI-LANE DIVIDED

NOTES:

SIGN G020-1 IS REQUIRED PER EPG 616.6.56.

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(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) SIGN CONST-7-48 OR CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN, IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) SIGN CONST-5-96 OR CONST-5-48 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-7-48 OR CONST-7-72.

(4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS,ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR A SIX FOOT WIDE SIGN. THE 72 IN. X 36 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 24 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(5) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITION. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

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

WORK ZONE
NO PHONE ZONE
SPECIAL

WHEN THE "ROAD WORK NEXT XX MILES" IS NOT USED THE "NO PHONE ZONE" SIGN IS TO BE PLACED A MINIMUM OF 500'BEFORE THE "ROAD WORK AHEAD" SIGN. REFER TO EPG 616.6.51.3 WORK ZONE NO PHONE ZONE SIGN

ROAD WORK
NEXT 3 MILES
G020-1
1
1

END
ROAD WORK
G020-2
26

BEGIN/END
TEMPORARY
TRAFFIC CONTROL
SHEET 2 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	6

COUNTY
JACKSON

JOB NO.
JKU0036

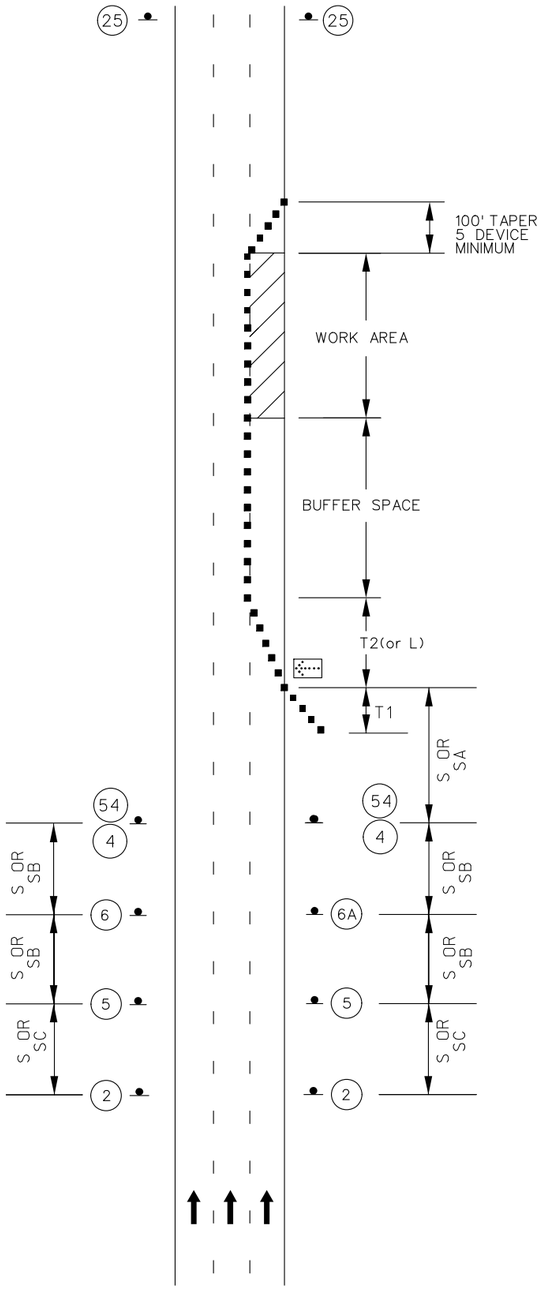
CONTRACT ID.

PROJECT NO.

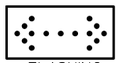
BRIDGE NO.

DESCRIPTION	DATE

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



TYPICAL LEFT OR RIGHT LANE CLOSURE
MULTI-LANE DIVIDED HIGHWAY



NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.

FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

A FLASHING 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.

LANE CLOSURE
MULTI LANE
TEMPORARY
TRAFFIC CONTROL
SHEET 3 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	7

COUNTY
JACKSON

JOB NO.
JKU0036

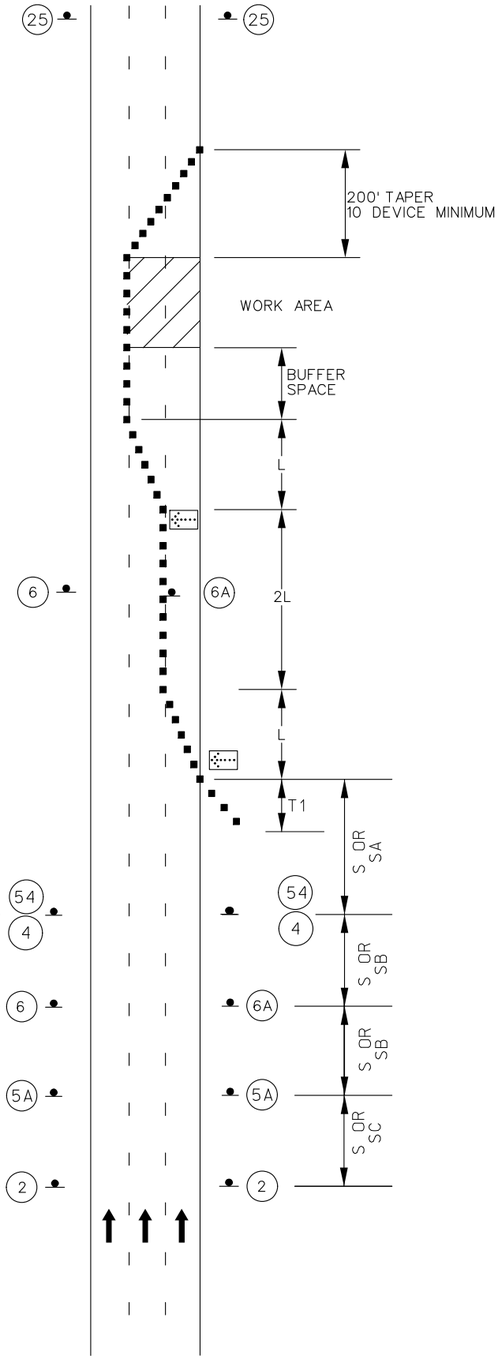
CONTRACT ID.

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)



LANE CLOSURE TWO LANES OF
MULTI-LANE DIVIDE HIGHWAY

W020-1

2

BRIDGE
OR
RAMP

W020-5a

5A

CENTER
OR
LEFT

W020-6a

6

CENTER
OR
LEFT

W04-1a

6A

R2-1

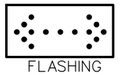
4

R2-1
NORMAL SPEED

25

G020-5aP

54



FLASHING
ARROW PANEL

CHANNELIZERS

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

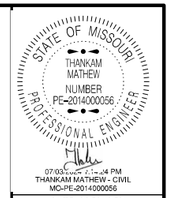
ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.

FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES

A FLASHING 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.

DOUBLE LANE CLOSURE
ON A FREEWAY
TEMPORARY
TRAFFIC CONTROL
SHEET 4 OF 11



07/03/2024 4:04 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	8

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

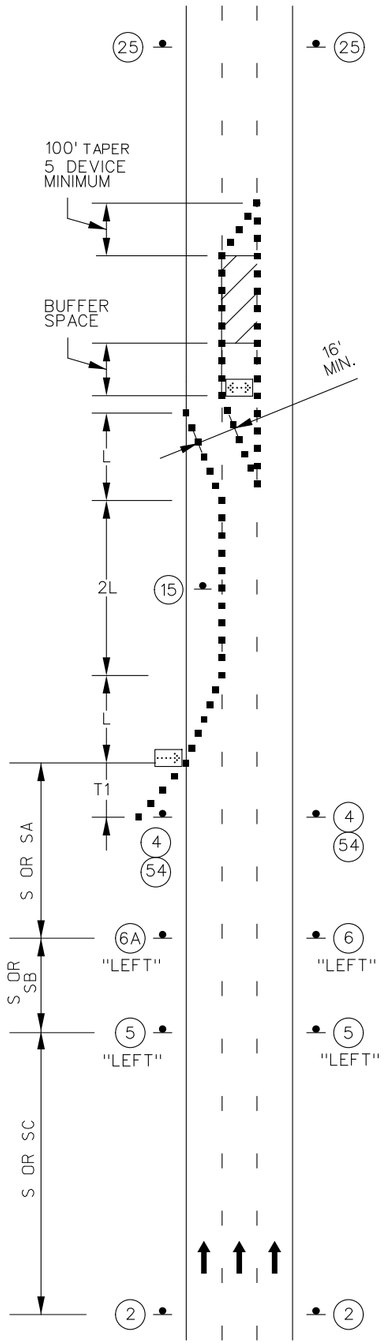
PROJECT NO.

BRIDGE NO.

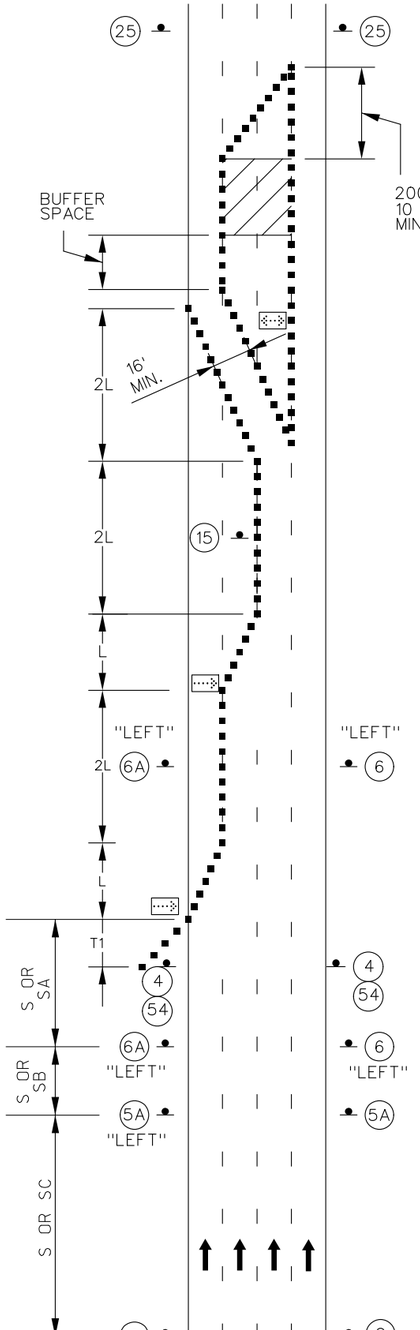
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

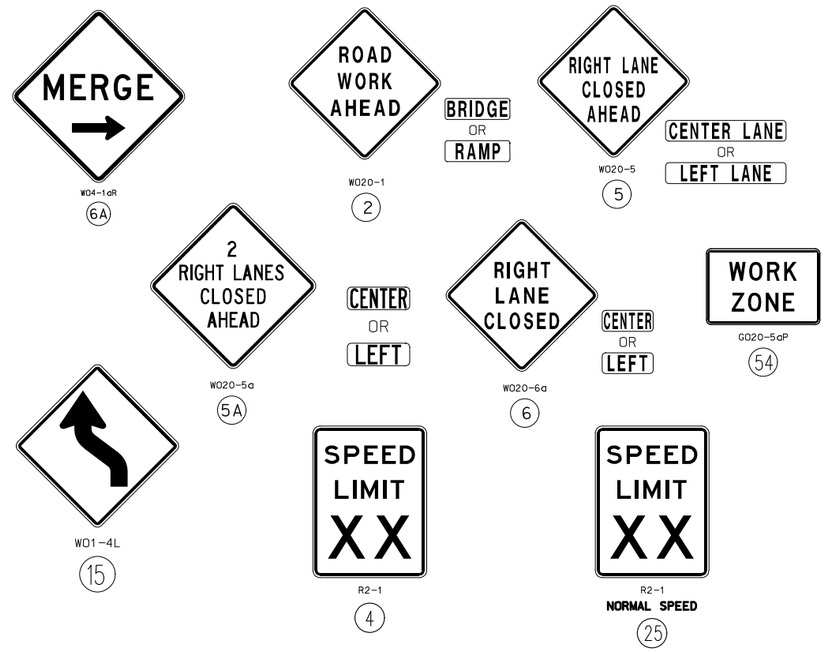


INTERIOR LANE



TWO INTERIOR LANES

TA-38 - LANE CLOSURE
INTERIOR LANE CLOSURES OF MULTI-LANE DIVIDED HIGHWAY



FLASHING
ARROW PANEL

CHANNELIZERS

NOTES:

(1). SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

(2). SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

(3). REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

(4). TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

(5). ALTERNATIVE TEMPORARY TRAFFIC CONTROL SET-UPS SHOULD BE CONSIDERED WHEN REDUCTION IN CAPACITY CANNOT BE TOLERATED.

(6). FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHT FOR USE OF SEQUENTIAL LIGHTS.

INTERIOR LANE
CLOSURE ON FREEWAY
TEMPORARY
TRAFFIC CONTROL
SHEET 5 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 [illegible] PM
THANKAM MATHEW- CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	9

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

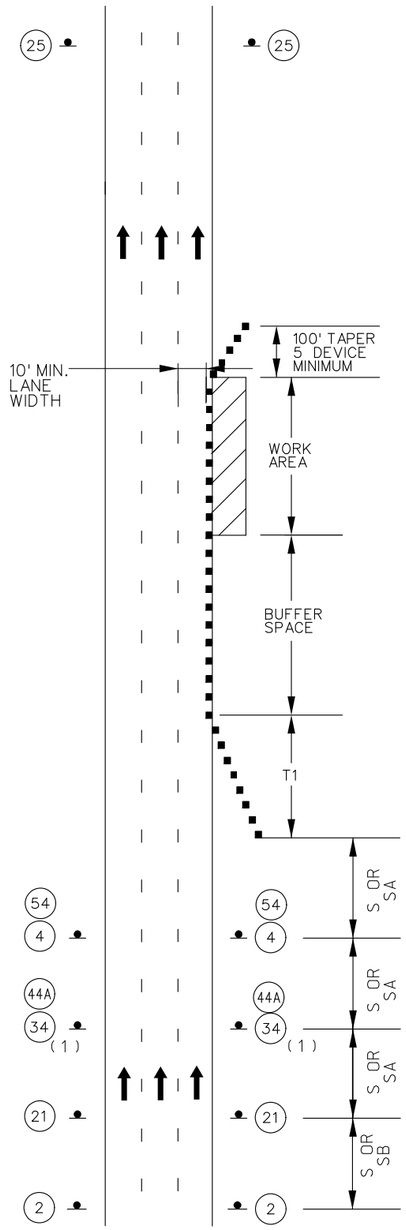
PROJECT NO.

BRIDGE NO.

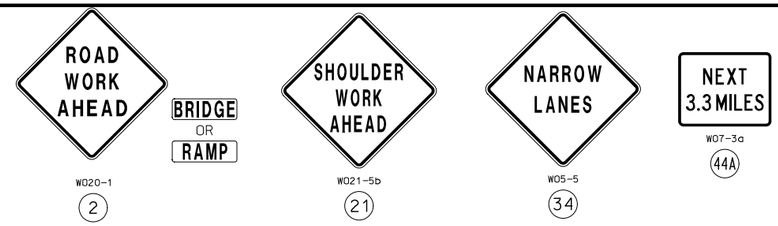
DESCRIPTION

DATE

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



THREE LANE (MULTI) DIVIDED
SHOULDER WORK
MINOR TRAVELWAY ENCROACHMENT



FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCED WARNING RAIL SYSTEM

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

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

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

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

TA-06

SHOULDER WORK
MINOR ENCROACHMENT
TEMPORARY
TRAFFIC CONTROL
SHEET 6 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 [illegible] PM
THANKAM MATHEW- CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	10

COUNTY
JACKSON

JOB NO.
JKU0036

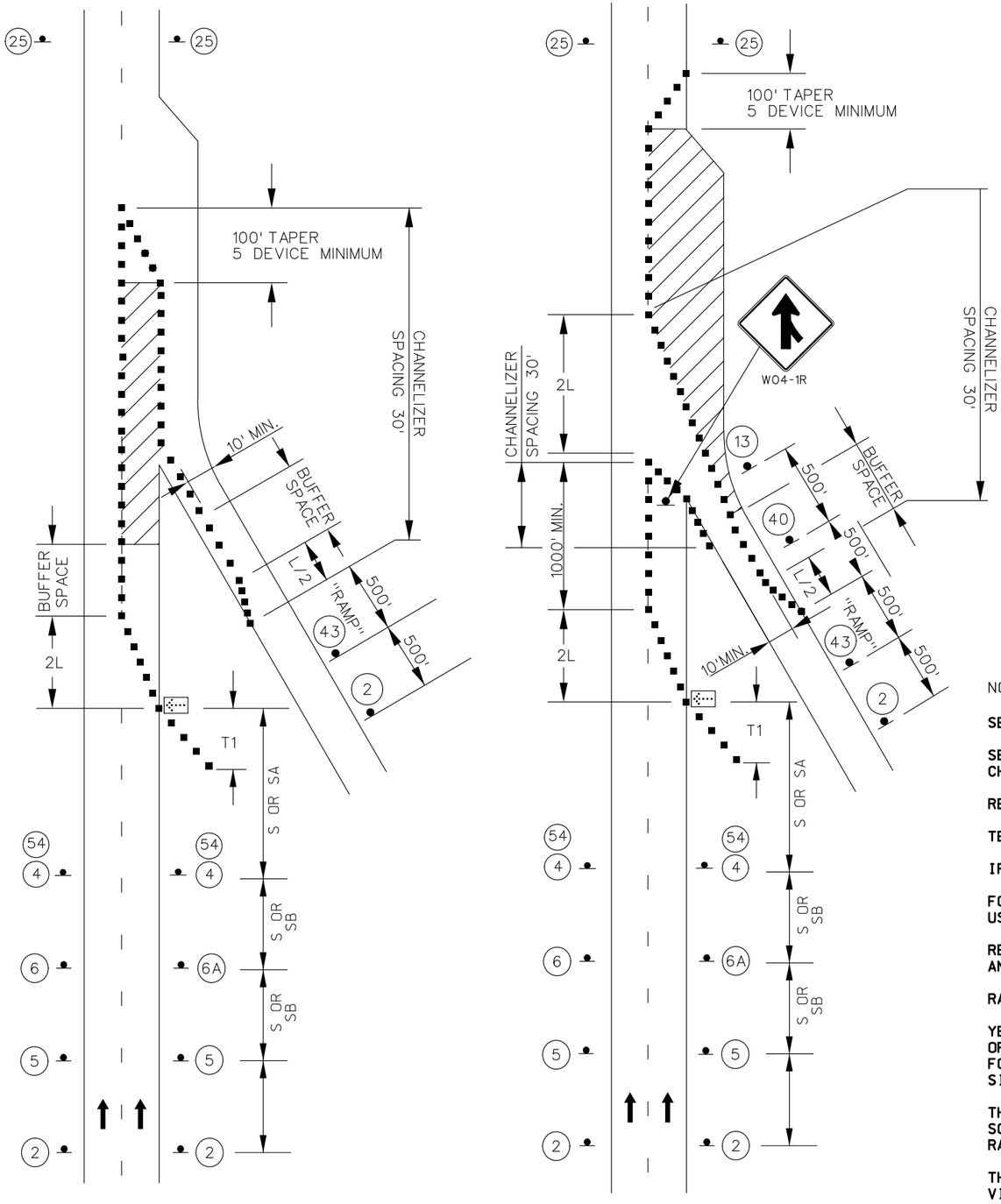
CONTRACT ID.

PROJECT NO.

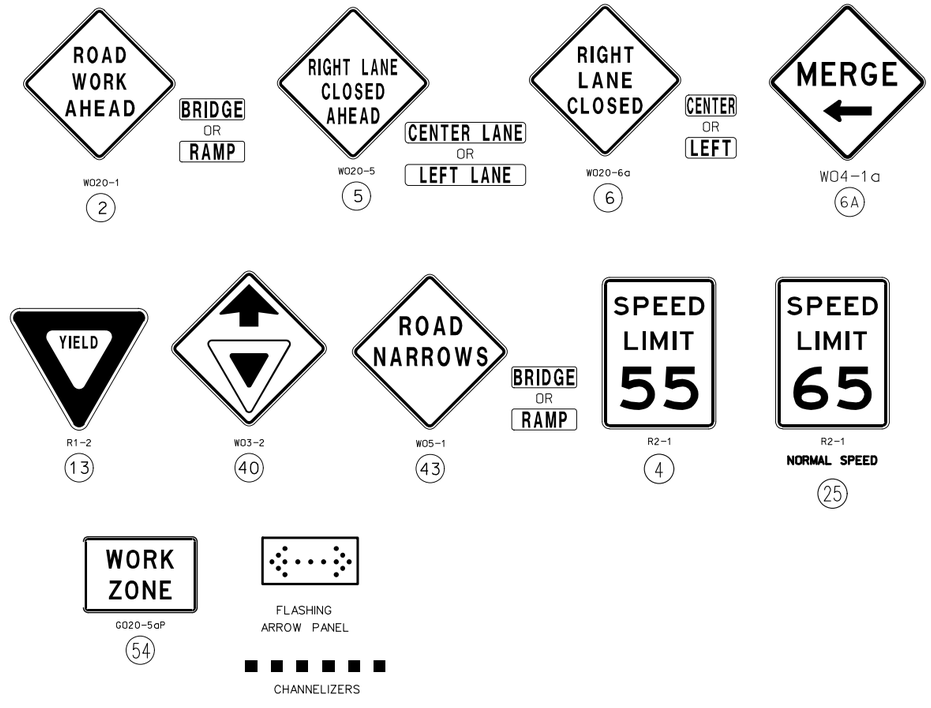
BRIDGE NO.

DESCRIPTION	DATE

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



LANE CLOSURE
ENTRANCE RAMP AREAS



NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND AND GUIDELINES FOR THE DEVICE.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YEILD 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 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.

THE YEILD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVER NIGHT, UAW TRIM-LINE CHANNELIZERS.

WORK IN VICINITY
OF ENTRANCE RAMP
TEMPORARY
TRAFFIC CONTROL
SHEET 7 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07:03 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	11

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

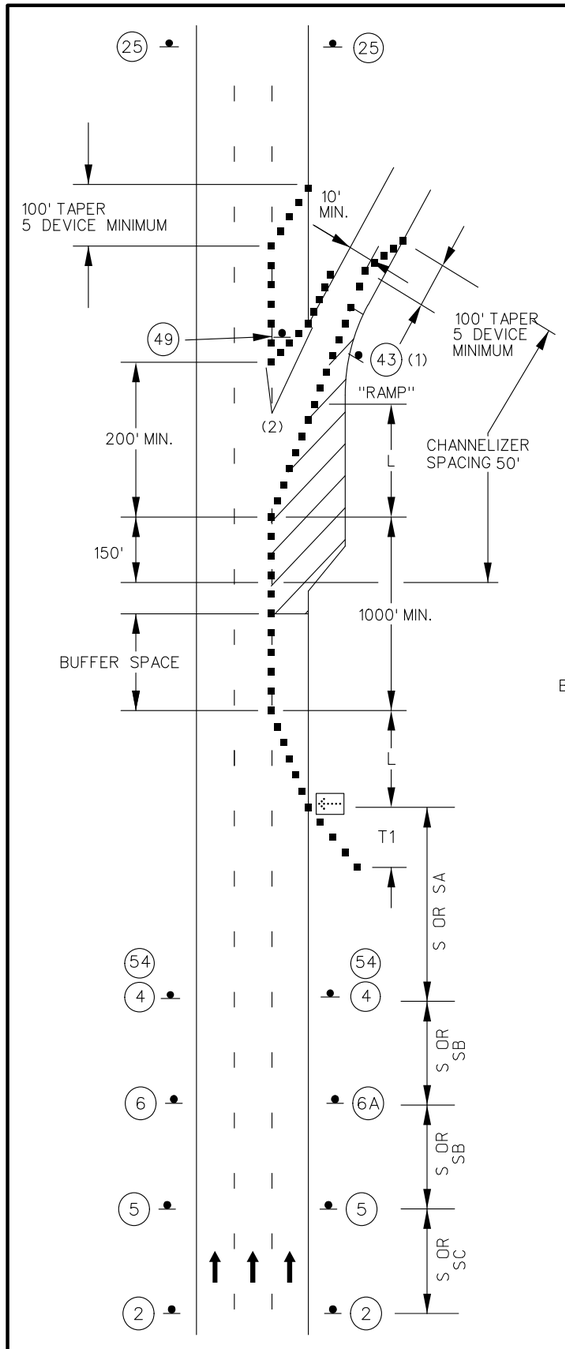
PROJECT NO.

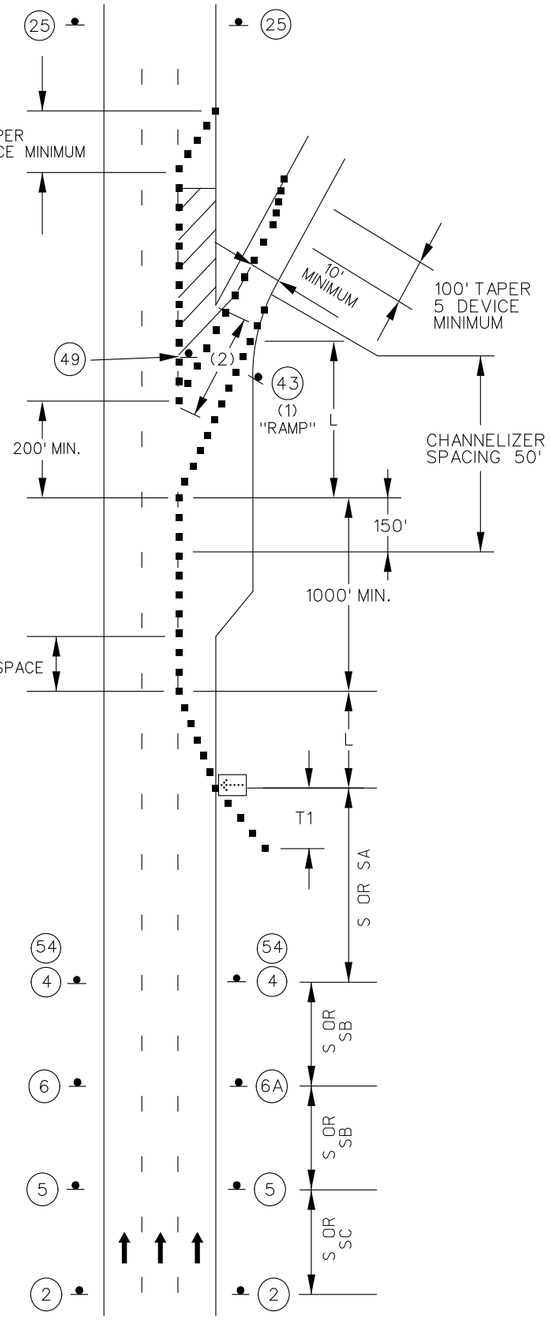
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





WORK IN THE VICINITY
OF A EXIT RAMP AREAS

TA-42

CENTER OR LEFT

W020-6a
(6)

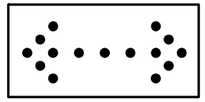
BRIDGE OR RAMP

W020-1
(2)

CENTER LANE OR LEFT LANE

W020-5
(5)

W04-1a
(6A)



FLASHING
ARROW PANEL

BRIDGE OR RAMP

W05-1
(43)

E05-1
(49)

G020-5aP
(54)

CHANNELIZERS

R2-1
(4)

R2-1
NORMAL SPEED
(25)

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND AND GUIDELINES FOR THE DEVICE.

(1). SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2). FIVE CHANNELIZER DEVICE MINIMUM.

WORK IN VICINITY
OF EXIT RAMP
TEMPORARY
TRAFFIC CONTROL
SHEET 8 OF 11

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	12

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

PROJECT NO.

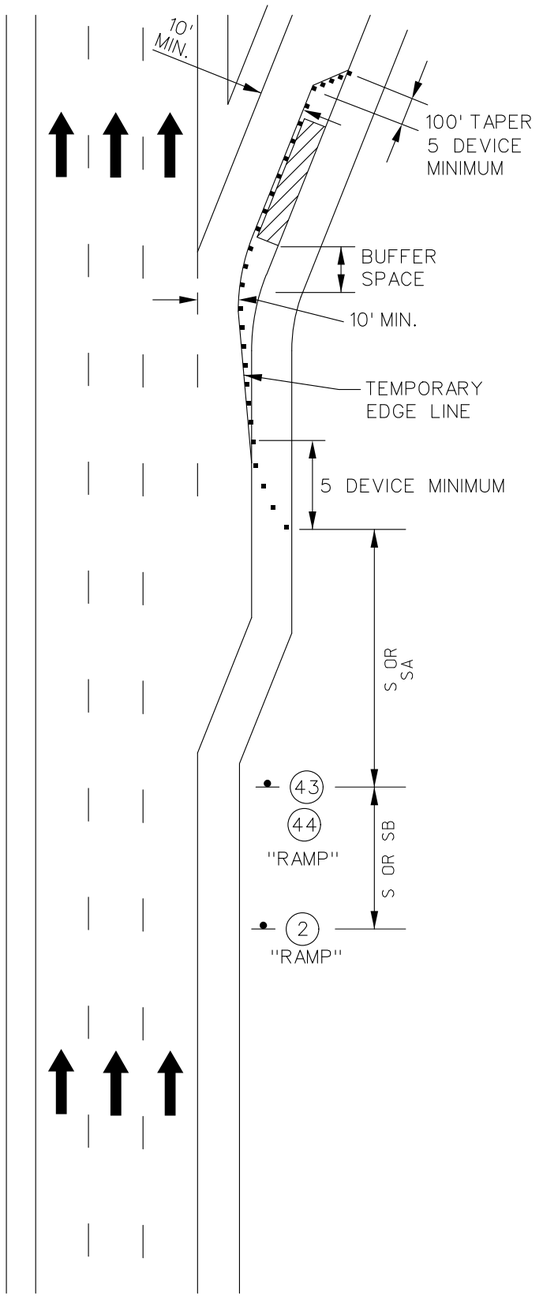
BRIDGE NO.

DESCRIPTION

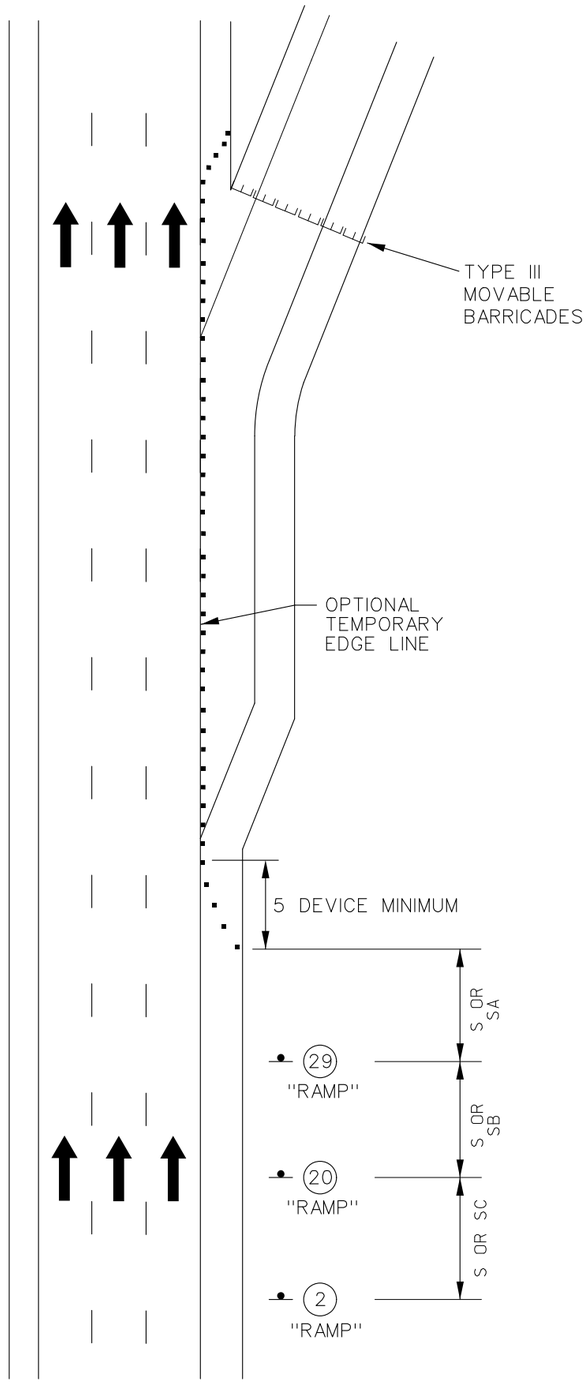
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

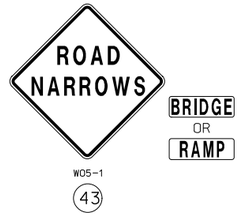
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PARTIAL LANE



ENTIRE RAMP



CHANNELIZERS

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND AND GUIDELINES FOR THE DEVICE.

PARTIAL OR TOTAL
EXIT RAMP CLOSURE
TEMPORARY
TRAFFIC CONTROL
SHEET 9 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 1:42 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	13

COUNTY
JACKSON

JOB NO.
JKU0036

CONTRACT ID.

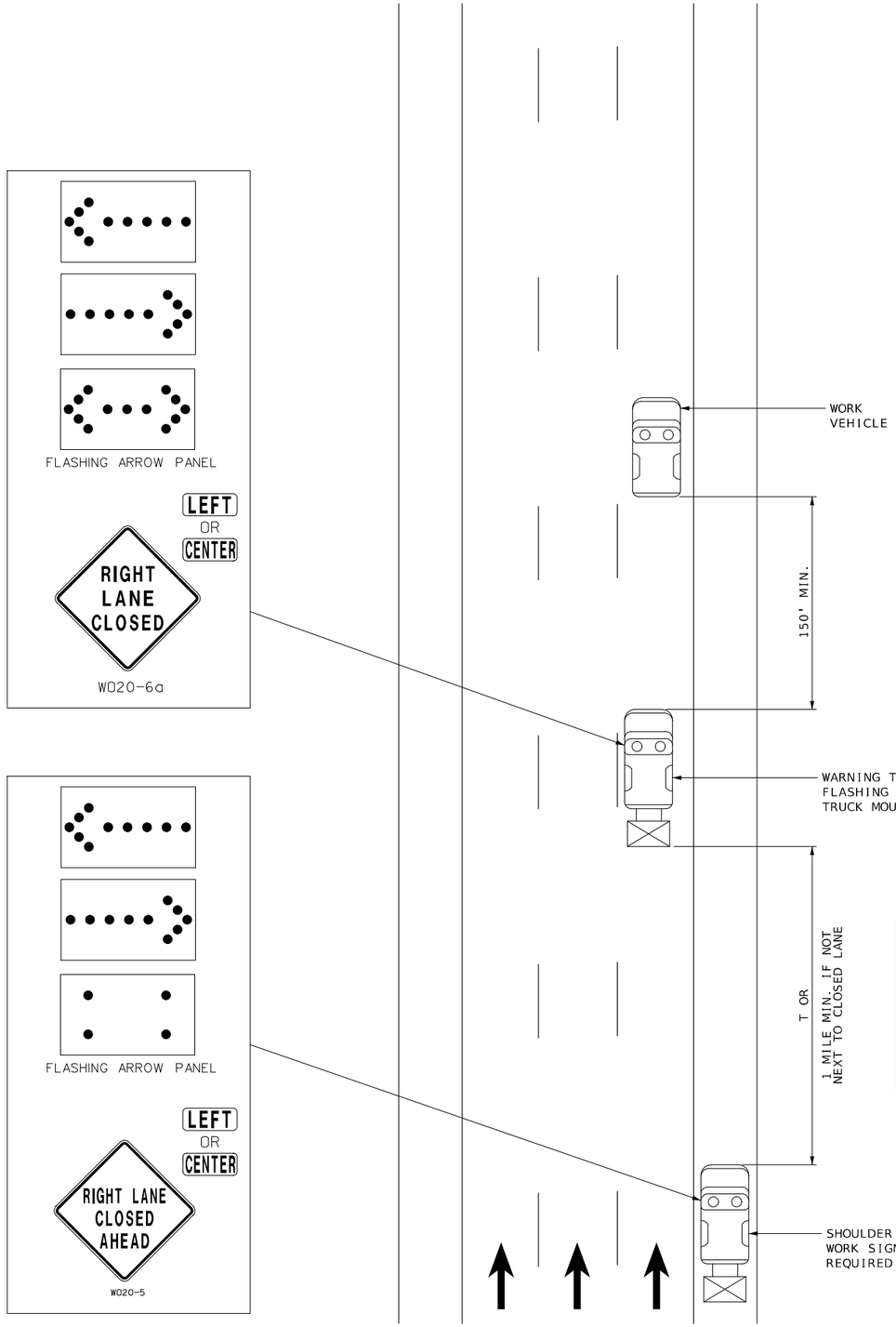
PROJECT NO.

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 T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

NOT TO SCALE

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.

MOBILE ON MULTI-LANE HIGHWAY

TEMPORARY TRAFFIC CONTROL
MOBILE ON MULTI-LANE HIGHWAY
SHEET 10 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 1:30:30 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED
7/3/2024

ROUTE	STATE
435	MO
DISTRICT	SHEET NO.
KC	14

COUNTY
JACKSON

JOB NO.
JKU0036

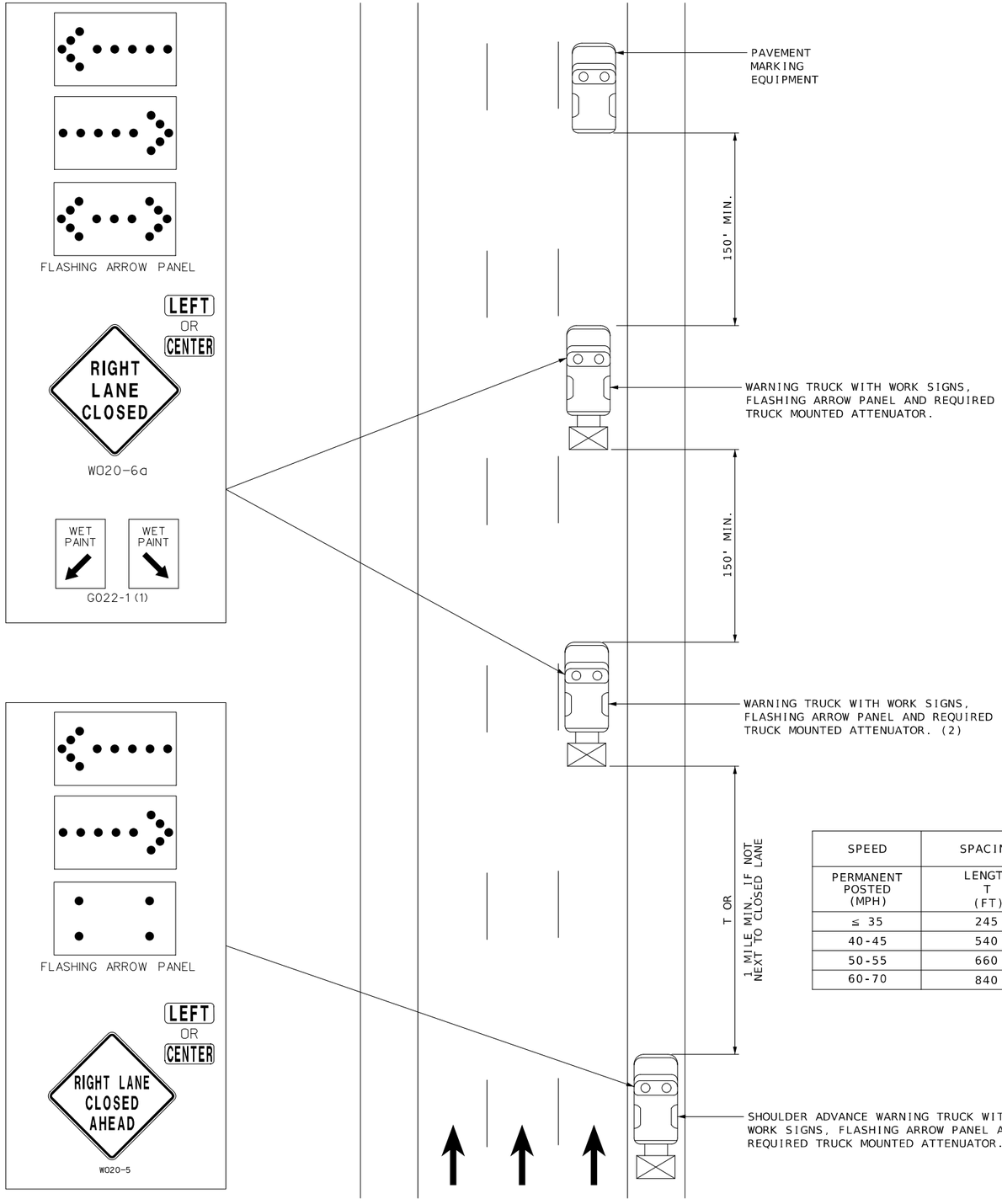
CONTRACT ID.

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 T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

STRIPING ON MULTI-LANE HIGHWAY

NOT TO SCALE

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.

TEMPORARY TRAFFIC CONTROL
STRIPING ON MULTI-LANE HIGHWAY
SHEET 11 OF 11

STATE OF MISSOURI
THANKAM MATHEW
NUMBER PE-2014000056
PROFESSIONAL ENGINEER
07/03/2024 1:21 PM
THANKAM MATHEW - CIVIL
MO-PE-2014000056

DATE PREPARED: 7/3/2024
ROUTE: 435 | STATE: MO
DISTRICT: KC | SHEET NO.: 15
COUNTY: JACKSON
JOB NO.: JKU0036
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)