

DESIGN DESIGNATION

A.A.D.T. - 2025 = 53,036
A.A.D.T. - 2045 = 60,000
D.H.V. = 9%
T = 30%
V = 70 M.P.H.

FUNCTIONAL CLASSIFICATION-INTERSTATE

NO RIGHT OF WAY IS ACQUIRED
ON THIS PROJECT

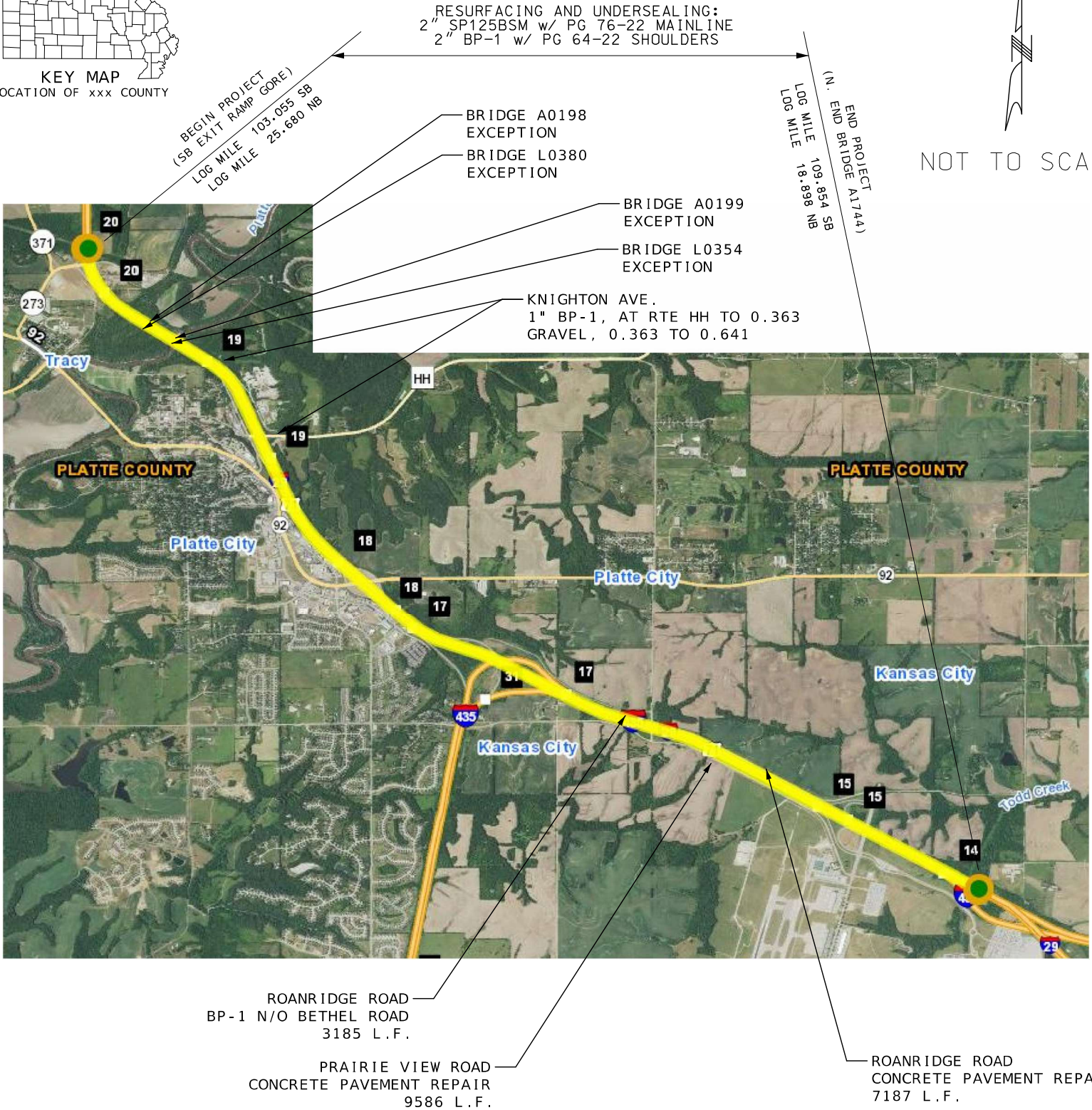
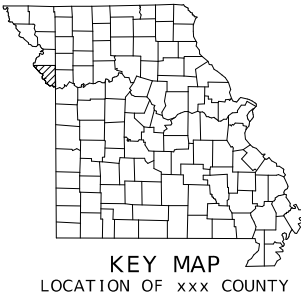
CONVENTIONAL SYMBOLS
(USED IN PLANS)

BUILDINGS AND STRUCTURES
GUARD RAIL
GUARD CABLE
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER
LOCATION SURVEY MARKER
UTILITIES
FIBER OPTICS
OVERHEAD CABLE TV
UNDERGROUND CABLE TV
OVERHEAD TELEPHONE
UNDERGROUND TELEPHONE
OVERHEAD POWER
UNDERGROUND POWER
SANITARY SEWER
STORM SEWER
GAS
WATER

MANHOLE
FIRE HYDRANT
WATER VALVE
WATER METER
DROP INLET
DITCH BLOCK
GROUND MOUNTED SIGN
LIGHT POLE
H-FRAME POWER POLE
TELEPHONE PEDESTAL
FENCE
CHAIN LINK
WOVEN WIRE
GATE POST
BENCHMARK

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

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



NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (3 SHEETS)---	2
QUANTITIES (QU) (11 SHEETS)-----	3
TRAFFIC CONTROL SHEETS (TC)-----	4-17



DATE PREPARED
6/3/2024

ROUTE
I - 29

STATE
MO

DISTRICT
KC

SHEET NO.
1

COUNTY
PLATTE

JOB NO.
JKU0072

CONTRACT ID.

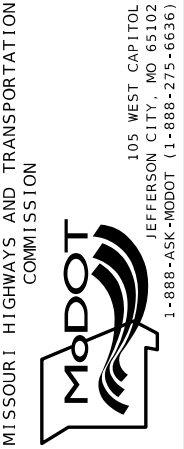
PROJECT NO.

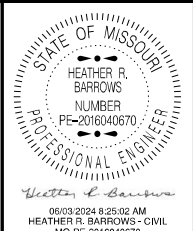
BRIDGE NO.

DESCRIPTION	DATE

LENGTH OF PROJECT

	SOUTHBOUND	NORTHBOUND
BEGINNING OF PROJECT	LM 103.055	LM 25.680
END OF PROJECT	LM 109.854	LM 18.898
APPARENT LENGTH	35,898.7 FT	35,809.0 FT
EQUATIONS AND EXCEPTIONS:		
BRIDGE L0380		
LOG MI. 103.626 SB TO		
LOG MI. 103.706 SB	401.3 FT	
BRIDGE L0354		
LOG MI. 103.820 SB TO		
LOG MI. 103.956 SB	702.2 FT	
BRIDGE A0198		
LOG MI. 25.027 NB TO		
LOG MI. 25.105 NB		348.5 FT
BRIDGE A0199		
LOG MI. 24.784 NB TO		
LOG MI. 24.912 NB		707.5 FT
TOTAL CORRECTIONS	1,103.5 FT	1,056.0 FT
NET LENGTH OF PROJECT	34,795.2 FT	34,753.0 FT
STATE LENGTH	6.590 MI	6.582 MI
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.000 ACRES	0.000 ACRES



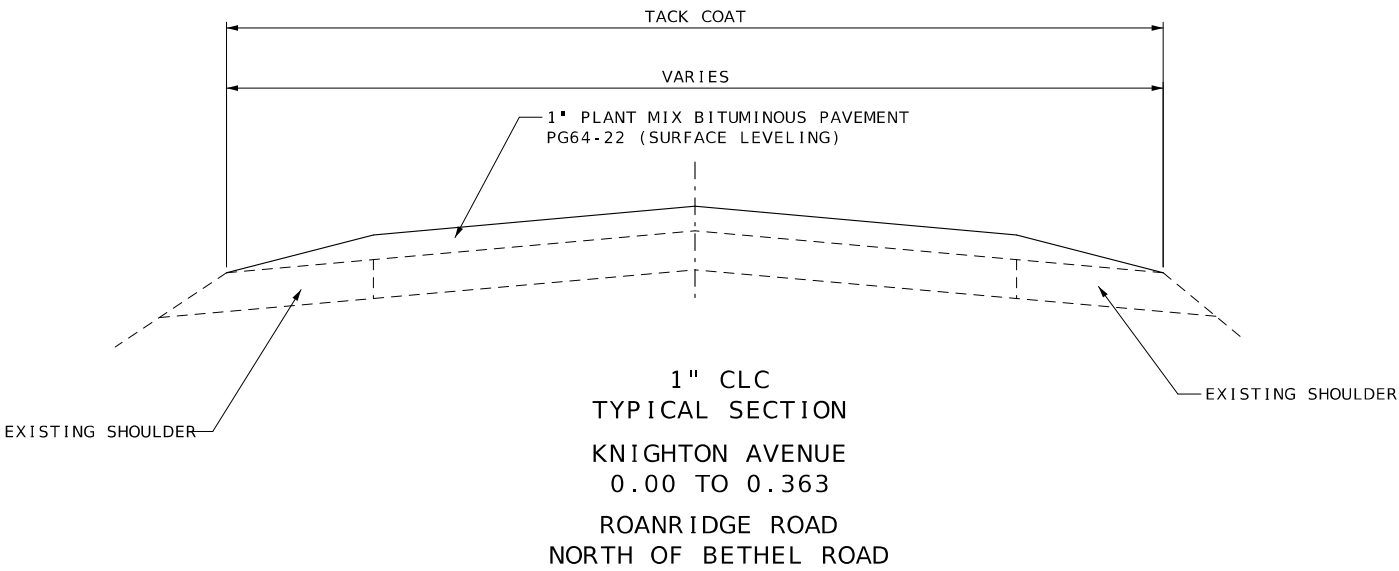

$$\mathbb{Q} : \mid$$


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

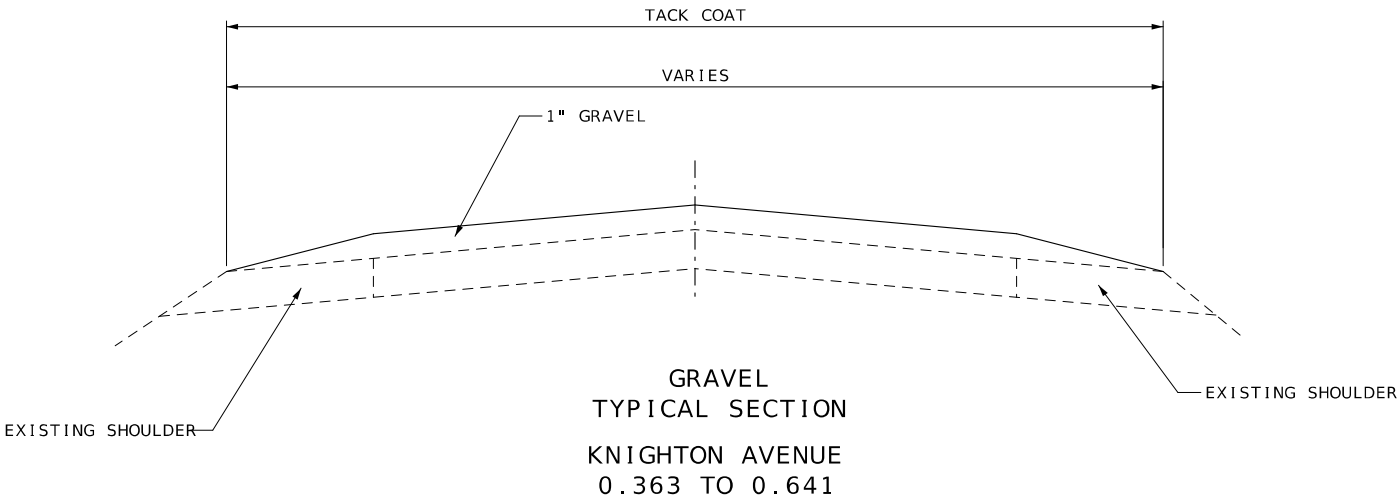
REV.



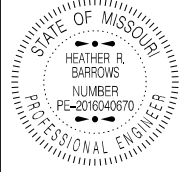
BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.975 TON/YD ³
TACK COAT	0.08 GAL/YD ²



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



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



Heather R. Barrows
06/03/2024 9:39:28 AM
HEATHER R. BARROWS - CIVIL
MO-PE-2016040670

DATE PREPARED
6/3/2024

ROUTE
1-29

STATE
MO

DISTRICT
KC

SHEET NO.
2

COUNTY
PLATTE

JOB NO.
JKU0072

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)

FULL DEPTH PAVEMENT REPAIR (INCLUDES SAW CUT AT EDGE OF PAVEMENT)						
Repair No.	Log mile	Length	Width	FURN. PLACE SY	DOWEL BARS EACH	SAW CUT L.F.
		FT	FT			
I-29 South Bound Lane						
1	103.242	4	12	5.33	20	32
2	103.25	12	12	16.00	20	48
3	106.776	12	20	26.67	33	64
4	106.778	12	20	26.67	33	64
5	106.783	6	12	8.00	20	36
6	106.897	5	12	6.67	20	34
7	106.901	3	12	4.00	20	30
8	106.924	6	12	8.00	20	36
9	106.927	6	12	8.00	20	36
10	106.968	3	12	4.00	20	30
11	106.97	6	12	8.00	20	36
12	107.131	6	12	8.00	20	36
13	107.16	6	10	6.67	17	32
14	107.195	12	12	16.00	20	48
15	108.741	12	20	26.67	33	64
16	108.834	6	12	8.00	20	36
17	108.917	6	12	8.00	20	36
18	109.825	4	10	4.44	17	28
I-29 North Bound Lane						
1	18.943	4	12	5.33	20	32
2	19.024	5	12	6.67	20	34
3	19.233	6	12	8.00	20	36
4	19.525	10	12	13.33	20	44
5	19.737	6	24	16.00	40	60
6	20.727	6	24	16.00	40	60
7	20.921	6	12	8.00	20	36
8	20.929	6	24	16.00	40	60
9	23.944	5	12	6.67	20	34
10	24.011	4	4	1.78	7	16
11	24.044	6	6	4.00	10	24
12	24.279	6	12	8.00	20	36
13	25.388	6	12	8.00	20	36
14	25.428	6	12	8.00	20	36
I-29 North Bound to MO 273						
1	0.143	4	20	8.89	33	48
I-29 South Bound to Route HH						
1	0.01	2	10	2.22	17	24
2	0.01	2	12	2.67	20	26
Route HH to I-29 North Bound						
1	0.206	2	70	15.56	117	144
Route HH Over to I-29						
1	4.36 WB	6	18	12.00	30	48
2	0.35 EB	6	20	13.33	33	52
I-29 North Bound to MO 92						
1	0.08	4	12	5.33	20	32
MO 92 to I-29 North Bound						
1	0.032	4	20	8.89	33	48
2	0.115	4	4	1.78	7	16
3	0.119	6	20	13.33	33	52
4	0.169	4	10	4.44	17	28
Mexico City Ave to I-29 South Bound						
1	0.140	6	25	16.67	42	62
2	0.150	6	25	16.67	42	62
3	0.311	6	12	8.00	20	36
I-29 North Bound to Mexico City Ave						
1	0.042	6	20	13.33	33	52
2	0.560	5	10	5.56	17	30
3	0.170	5	20	11.11	33	50
4	0.191	5	20	11.11	33	50
			SUB TOTAL	495.79	1290	2130

REMOVAL OF IMPROVEMENTS				
LOG MILE	DIRECTION	LOCATION	DESCRIPTION	QUANTITY FT
103.078	SB	ROUTE 29 LT	GUARDRAIL	503
103.100	SB	ROUTE 29 RT	GUARDRAIL	385
103.459	SB	ROUTE 29 RT	GUARDRAIL	950
103.539	SB	ROUTE 29 LT	GUARDRAIL	453
103.719	SB	ROUTE 29 RT	GUARDRAIL	600
103.738	SB	ROUTE 29 LT	GUARDRAIL	460
103.958	SB	ROUTE 29 LT	GUARDRAIL	160
103.958	SB	ROUTE 29 RT	GUARDRAIL	120
104.018	SB	ROUTE 29 RT	GUARDRAIL	115
104.639	SB	ROUTE 29 RT	GUARDRAIL	320
104.696	SB	ROUTE 29 LT	GUARDRAIL	0
105.855	SB	ROUTE 29 LT	GUARDRAIL	223
106.214	SB	ROUTE 29 LT	GUARDRAIL	238
106.793	SB	ROUTE 29 LT	GUARDRAIL	0
107.529	SB	ROUTE 29 LT	GUARDRAIL	0
107.742	SB	ROUTE 29 LT	GUARDRAIL	0
108.264	SB	ROUTE 29 LT	GUARDRAIL	0
108.683	SB	ROUTE 29 RT	GUARDRAIL	80
108.986	SB	ROUTE 29 RT	GUARDRAIL	80
109.094	SB	ROUTE 29 LT	GUARDRAIL	0
109.498	SB	ROUTE 29 LT	GUARDRAIL	0
109.816	SB	ROUTE 29 LT	GUARDRAIL	200
109.834	SB	ROUTE 29 RT	GUARDRAIL	105
18.898	NB	ROUTE 29 RT	GUARDRAIL	126
18.898	NB	ROUTE 29 LT	GUARDRAIL	220
19.219	NB	ROUTE 29 LT	GUARDRAIL	0
19.611	NB	ROUTE 29 LT	GUARDRAIL	0
20.451	NB	ROUTE 29 LT	GUARDRAIL	0
20.979	NB	ROUTE 29 LT	GUARDRAIL	0
21.190	NB	ROUTE 29 LT	GUARDRAIL	0
21.452	NB	ROUTE 29 LT	GUARDRAIL	0
21.908	NB	ROUTE 29 LT	GUARDRAIL	0
22.108	NB	ROUTE 29 RT	GUARDRAIL	900
22.470	NB	ROUTE 29 LT	GUARDRAIL	250
22.833	NB	ROUTE 29 LT	GUARDRAIL	245
23.050	NB	ROUTE 29 RT	GUARDRAIL	1550
23.982	NB	ROUTE 29 RT	GUARDRAIL	345
24.012	NB	ROUTE 29 LT	GUARDRAIL	
24.287	NB	ROUTE 29 RT	GUARDRAIL	2635
24.754	NB	ROUTE 29 LT	GUARDRAIL	0
24.918	NB	ROUTE 29 RT	GUARDRAIL	615
24.956	NB	ROUTE 29 LT	GUARDRAIL	460
25.105	NB	ROUTE 29 RT	GUARDRAIL	930
25.504	NB	ROUTE 29 RT	GUARDRAIL	430
25.578	NB	ROUTE 29 LT	GUARDRAIL	75
			TOTAL	13,698
			PAY TOTAL	1 LUMP SUM

MOBILIZATION
PAY TOTAL = 1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 11

STATE OF MISSOURI

HEATHER R. BARROWS

NUMBER
PE-2016040670

PROFESSIONAL ENGINEER

06/03/2024 9:26:33 AM

HEATHER R. BARROWS - CIVIL

MO-PE-2016040670

DATE PREPARED
6/3/2024

ROUTE
I-29

STATE
MO

DISTRICT
KC

SHEET NO.
3

COUNTY
PLATTE

JOB NO.
JKU0072

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)



06/03/2024 8:27:21 AM
HEATHER R. BARROWS - CIVIL
MO-PE-2016040670

DATE PREPARED
6/3/2024
ROUTE
I - 29 STATE
MO
DISTRICT
KC SHEET NO.
3

COUNTY
PLATTE
JOB NO.
JKU0072
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)

FULL DEPTH PAVEMENT REPAIR (INCLUDES SAW CUT AT EDGE OF PAVEMENT)								
Repair No.	Log mile	Length	Width	FURNISH AND PLACE SY	DOWEL BARS EACH	SAW CUT L.F.	SUBGRADE COMPACTION SY	AGGREGATE FOR BASE SY
		FT	FT					
NW Roanridge EB								
1	0.206	8	30	26.67	50	76		
2	0.250	4	12	5.33	20	32		
3	0.267	2	12	2.67	20	28		
4	0.306	6	15	10.00	25	42		
5	0.318	6	12	8.00	20	36		
6	0.335	6	30	20.00	50	72		
7	0.402	3	12	4.00	20	30		
8	0.584	6	12	8.00	20	36		
9	0.904	6	12	8.00	20	36		
10	1.041	6	12	8.00	20	36		
NW Roanridge WB								
1	0.891	6	12	8.00	20	36		
2	0.892	6	12	8.00	20	36		
3	0.907	6	90	60.00	150	192		
4	1.023	2	12	2.67	20	28		
5	1.136	6	30	20.00	50	72		
6	1.17	6	12	8.00	20	36		
7	1.221	2	10	2.22	17	22		
8	1.221	4	30	13.33	50	68		
9	1.238	3	12	4.00	20	30		
10	1.29	4	12	5.33	20	32		
NW Prairieview EB								
1	0.311	8	12	10.67	20	40		
2	0.447	3	24	8.00	40	54		
3	0.498	6	6	4.00	10	24		
4	0.586	6	6	4.00	10	24		
5	0.709	3	6	2.00	10	18		
6	0.71	6	6	4.00	10	24		
7	0.905	6	30	20.00	50	72		
8	1.031	6	30	20.00	50	72		
9	1.235	4	24	10.67	40	56		
10	1.464	6	30	20.00	50	72		
NW Prairieview WB								
1	0.104	2	24	5.33	40	52		
2	0.111	4	18	8.00	30	40		
3	0.111	6	100	66.67	167	212		
4	1.45	6	24	16.00	40	60		
5	1.5	8	24	21.33	40	64		
ABOVE SUB TOTAL				452.89	1259	1860	10% TOTAL AREA	10% TOTAL AREA
SUB TOTAL I-29				495.79	1290	2130		
PAY TOTAL				948.7	2549	3990	95	95

PARTIAL DEPTH PAVEMENT REPAIR (CLASS C)						
Repair No.	Log mile	Length	Width	Depth	FURNISH AND PLACE BP-1, TONS	REMOVAL SY
		FT	FT	IN		
I-29 South Bound Lane						
1	103.056	4	10	3	0.734	4.44
2	103.056	2	6	3	0.220	1.33
3	103.072	3	10	3	0.551	3.33
4	103.072	2	2	3	0.073	0.44
5	103.072	3	3	3	0.165	1.00
6	103.192	3	3	3	0.165	1.00
7	103.215	2	20	3	0.734	4.44
8	103.228	3	6	3	0.331	2.00
9	103.249	2	6	3	0.220	1.33
10	103.269	3	3	3	0.165	1.00
11	103.271	2	3	3	0.111	0.67
12	103.279	2	4	3	0.147	0.89
13	103.283	6	6	3	0.661	4.00
14	103.283	4	4	3	0.294	1.78
15	103.318	4	4	3	0.294	1.78
16	103.319	2	2	3	0.073	0.44
17	103.319	2	4	3	0.147	0.89
18	103.321	2	4	3	0.147	0.89
19	103.396	2	10	3	0.367	2.22
20	103.396	4	50	3	3.674	22.22
21	103.412	6	40	3	4.409	26.67
22	103.412	2	40	3	1.470	8.89
23	103.456	3	40	3	2.204	13.33
24	103.550			3	4.113	24.88
25	104.144	4	20	3	1.470	8.89
26	104.146	2	10	3	0.367	2.22
27	104.960	2	2	3	0.073	0.44
28	105.526	12	120	3	26.453	160.00
29	105.801	2	6	3	0.220	1.33
30	105.876	2	70	3	2.573	15.56
31	106.346	3	3	3	0.165	1.00
32	106.560	2	40	3	1.470	8.89
33	106.744	4	12	3	0.881	5.33
34	106.765	4	6	3	0.441	2.67
35	106.781	2	20	3	0.734	4.44
36	106.784	3	5	3	0.276	1.67
37	106.784	2	3	3	0.111	0.67
38	106.843	4	100	3	7.347	44.44
39	106.921	6	6	3	0.661	4.00
40	106.924	4	10	3	0.734	4.44
41	106.966	4	8	3	0.589	3.56
42	107.051	4	12	3	0.881	5.33
43	107.053	3	15	3	0.827	5.00
44	107.058	3	24	3	1.323	8.00
45	107.083	3	12	3	0.661	4.00
46	107.106	4	12	3	0.881	5.33
47	107.133	4	10	3	0.734	4.44
48	107.136	3	12	3	0.661	4.00
49	107.152	4	10	3	0.734	4.44
50	107.152	4	12	3	0.881	5.33
51	107.152	3	25	3	1.377	8.33
52	107.191	4	4	3	0.294	1.78
53	107.199	6	12	3	1.323	8.00
54	107.199	12	50	3	11.023	66.67
55	107.241	4	12	3	0.881	5.33
56	107.865	12	120	3	26.453	160.00
57	107.909	4	6	3	0.441	2.67
58	108.187	4	6	3	0.441	2.67
59	108.434	6	6	3	0.661	4.00
60	108.474	4	4	3	0.294	1.78
61	108.505	10	12	3	2.204	13.33
62	108.541	6	6	3	0.661	4.00
63	108.583	6	6	3	0.661	4.00
64	108.607	4	8	3	0.589	3.56
65	108.673	3	12	3	0.661	4.00
66	108.854	6	6	3	0.661	4.00
67	108.972	6	6	3	0.661	4.00
68	109.446	4	12	3	0.881	5.33
69	109.446	2	10	3	0.367	2.22
70	109.473	2	4	3	0.147	0.89
71	109.473	2	2	3	0.073	0.44
72	109.534	4	12	3	0.881	5.33
				SUB TOTAL	125.25	757.61

STATE OF MISSOURI

HEATHER R. BARROWS

NUMBER
PE-2016040670

PROFESSIONAL ENGINEER

06/03/2024 8:27:59 AM

HEATHER R. BARROWS - CIVIL

MO-PE-2016040670

DATE PREPARED

6/3/2024

ROUTE

I - 29

STATE

MO

DISTRICT

KC

SHEET NO.

3

COUNTY

PLATTE

JOB NO.

JKU0072

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

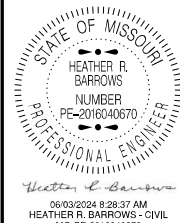
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

PARTIAL DEPTH PAVEMENT REPAIR (CLASS C)						
Repair No.	Log mile	Length	Width	Depth	FURNISH AND PLACE BP-1, TONS	REMOVAL
		FT	FT	IN		SY
I-29 North Bound Lane						
1	18.925	3	3	3	0.165	1.00
2	18.870	3	3	3	0.165	1.00
3	18.948	3	4	3	0.220	1.33
4	19.006	3	12	3	0.661	4.00
5	19.005	4	6	3	0.441	2.67
6	19.046	5	12	3	1.103	6.67
7	19.058	5	12	3	1.103	6.67
8	19.087	6	6	3	0.661	4.00
9	19.143	6	6	3	0.661	4.00
10	19.204	6	12	3	1.323	8.00
11	19.217	6	12	3	1.323	8.00
12	19.267	10	12	3	2.204	13.33
13	19.269	5	12	3	1.103	6.67
14	19.275	6	12	3	1.323	8.00
15	19.281	5	12	3	1.103	6.67
16	19.439	3	12	3	0.661	4.00
17	19.440	6	12	3	1.323	8.00
18	19.523	2	12	3	0.441	2.67
19	19.566	12	12	3	2.645	16.00
20	19.685	4	12	3	0.881	5.33
21	19.737	2	24	3	0.881	5.33
22	19.825	3	6	3	0.331	2.00
23	19.826	6	12	3	1.323	8.00
24	19.921	6	6	3	0.661	4.00
25	20.004	4	12	3	0.881	5.33
26	20.037	2	6	3	0.220	1.33
27	20.040	4	12	3	0.881	5.33
28	20.140	6	12	3	1.323	8.00
29	20.145	2	5	3	0.184	1.11
30	20.693	2	10	3	0.367	2.22
31	20.727	2	24	3	0.881	5.33
32	21.102	4	4	3	0.294	1.78
33	21.104	2	3	3	0.111	0.67
34	21.193	2	120	3	4.409	26.67
35	23.956	6	12	3	1.323	8.00
36		3	3	3	0.165	1.00
37		4	12	3	0.881	5.33
38		4	4	3	0.294	1.78
39	24.044	2	24	3	0.881	5.33
40	24.047	4	4	3	0.294	1.78
41	24.059	4	8	3	0.589	3.56
42	24.061	4	6	3	0.441	2.67
43	24.103	4	6	3	0.441	2.67
44	* 25.347	6	6	3	30.421	184.00
45	25.501	4	4	3	0.294	1.78
46	25.491	6	6	3	0.661	4.00
MO 273 to I-29 South Bound						
1	0.081	6	12	3	1.323	8.00
2	0.096	20	12	3	4.409	26.67
3	0.167	4	12	3	0.881	5.33
I-29 North Bound to MO 273						
1	0.010	4	6	3	0.441	2.67
2	0.022	4	6	3	0.441	2.67
I-29 South Bound to Route HH						
1	0.087	8	20	3	2.940	17.78
2	0.109	4	4	3	0.294	1.78
3	0.11	4	4	3	0.294	1.78
4	0.121	6	6	3	0.661	4.00
5	0.125	6	20	3	2.204	13.33
6	0.134	6	6	3	0.661	4.00
* 46 EA LOCATIONS BETWEEN LG 24.103 & 25.347				SUB TOTAL	83.49	505.02



DATE PREPARED
6/3/2024

ROUTE	STATE
I 39	MO

1-29	MO
DISTRICT	SHEET NO.
KC	3

KC	3
COUNTY	
PLATTE	

PLATTE
JOB NO.
UK10073

JK00072

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
JEFFERSON CITY, MO 65102
1-888-ASK-MDOT (1-888-275-6626)

SUMMARY OF QUANTITIES
SHEET 4 OF 11

I-29 PAVEMENT QUANTITIES													
DIRECTION	LOG MILE	LOG MILE	LENGTH FT	NUMBER OF 12' WIDE LANES	INSIDE SHOULDER WIDTH FT	OUTSIDE SHOULDER WIDTH FT	TRAVELWAY AREA SY	TRAVELWAY 2" SP125BSM TONS	SHOULDER AREA SY	SHOULDER 2" BP-1 TONS	TACK COAT (0.10 GAL/SY) GAL	PERMAMENT AGG. EDGE TREAT. (2.00 TONS/CY) TONS	REMARKS
MAINLINE													
SB	103.055	103.399	1,816.32	2	4	10	6,054.40	659.59	1,614.51	177.95	766.89	179.39	BEGINNING OF PROJECT
SB	103.399	103.539	739.20	3	4	10	3,449.60	375.81	657.07	72.42	410.67	73.01	NOTE: ALL SHOULDERS U.I.P.
SB	103.539	103.639	528.00	2	4	10	1,760.00	191.74	469.33	51.73	222.93	52.15	
SB	103.639	103.719											BRIDGE EXCEPTION
SB	103.719	103.828	575.52	2	4	10	1,918.40	209.00	511.57	56.39	243.00	56.84	
SB	103.828	103.958											BRIDGE EXCEPTION
SB	103.958	105.058	5,808.00	2	4	10	19,360.00	2,109.16	5,162.67	569.04	2,452.27	573.63	
SB	105.058	105.237	945.12	3	4	10	4,410.56	480.51	840.11	92.60	525.07	93.35	
SB	105.237	105.555	1,679.04	2	4	10	5,596.80	609.74	1,492.48	164.50	708.93	165.83	
SB	105.555	105.694	733.92	3	4	10	3,424.96	373.13	652.37	71.91	407.73	72.49	
SB	105.694	106.054	1,900.80	2	4	10	6,336.00	690.27	1,689.60	186.23	802.56	187.73	
SB	106.054	106.274	1,161.60	3	4	10	5,420.80	590.57	1,032.53	113.81	645.33	114.73	
SB	106.274	107.232	5,058.24	2	4	10	16,860.80	1,836.89	4,496.21	495.58	2,135.70	499.58	
SB	107.232	109.072	9,715.20	3	4	10	45,337.60	4,939.28	8,635.73	951.85	5,397.33	959.53	
SB	109.072	109.620	2,893.44	4	4	10	17,360.64	1,891.35	2,571.95	283.49	1,993.26	285.77	
SB	109.620	109.854	1,235.52	2	4	10	4,118.40	448.68	1,098.24	121.05	521.66	122.03	END OF PROJECT
NB	18.898	19.662	4,033.92	3	6	10	19,721.39	2,148.54	3,585.71	395.22	2,330.71	398.41	BEGINNING OF PROJECT
NB	19.662	19.763	533.28	4	6	10	3,318.19	361.50	474.03	52.25	379.22	52.67	
NB	19.763	19.982	1,156.32	3	6	10	5,653.12	615.88	1,027.84	113.29	668.10	114.20	
NB	19.982	20.062	422.40	4	6	10	2,628.27	286.34	375.47	41.39	300.37	41.72	
NB	20.062	21.502	7,603.20	3	6	10	37,171.20	4,049.60	6,758.40	744.93	4,392.96	750.93	
NB	21.502	21.521	100.32	2	6	10	356.69	38.86	89.17	9.83	44.59	9.91	
NB	21.521	22.402	4,651.68	2	4	10	15,505.60	1,689.25	4,134.83	455.75	1,964.04	459.43	
NB	22.402	22.631	1,209.12	3	4	10	5,642.56	614.73	1,074.77	118.46	671.73	119.42	
NB	22.631	23.051	2,217.60	2	4	10	7,392.00	805.32	1,971.20	217.27	936.32	219.02	
NB	23.051	23.140	469.92	3	4	10	2,192.96	238.91	417.71	46.04	261.07	46.41	
NB	23.140	23.219	417.12	2	4	10	1,390.40	151.48	370.77	40.87	176.12	41.20	
NB	23.219	23.879	3,484.80	2	2	10	10,841.60	1,181.13	3,097.60	341.42	1,393.92	344.18	
NB	23.879	24.352	2,497.44	3	4	10	11,654.72	1,269.72	2,219.95	244.69	1,387.47	246.66	
NB	24.352	24.794	2,333.76	2	4	10	7,779.20	847.50	2,074.45	228.65	985.37	230.49	
NB	24.794	24.934											BRIDGE EXCEPTION
NB	24.934	25.054	633.60	2	4	10	2,112.00	230.09	563.20	62.08	267.52	62.58	
NB	25.054	25.134											BRIDGE EXCEPTION
NB	25.134	25.680	2,882.88	2	4	10	9,609.60	1,046.91	2,562.56	282.45	1,217.22	284.73	END OF PROJECT
RAMPS AND ROUTE HH													
LANE WIDTH (FT)													
SB	103.060		370.00	18	4	8	986.67	107.49	246.67	27.19	123.33	18.27	MO 273/I-29 OFF RAMP
SB		103.399	1,255.00	14	6	8	2,510.00	273.45	837.11	92.27	334.71	61.98	MO 273/I-29 ON RAMP
SB	104.078	104.087	47.52	0 to 14	12	10	58.08	6.33	43.35	4.78	10.14	2.35	PRAIRIE VIEW RD /I-29 OFF RAMP
SB	104.087		810.00	14	15	9	1,620.00	176.49	631.44	69.60	225.14	40.00	PRAIRIE VIEW RD TO RTE HH OFF RAMP
SB			308.00	14	15 to 20	9	616.00	67.11	770.00	84.87	138.60	15.21	PRAIRIE VIEW RD TO VINE ST OFF RAMP
SB			1,965.00	14	20	9	3,930.00	428.15	1,530.33	168.68	546.03	97.04	VINE ST TO RTE HH RAMP
SB							1,531.11	166.81			153.11		RTE HH INTERSECTION (TO BRIDGE)
SB			265.00	28 to 32	8	6	883.33	96.23	118.44	13.05	100.18	13.09	TO PRAIRIE VIEW RD PAINTED GORE
SB			315.00	32 to 67	6	6	1,732.50	188.75	140.44	15.48	187.29	15.56	PRAIRIE VIEW RD TO I-29 GORE
SB			1,100.00	16	6	14	2,444.44	266.31	1,467.11	161.71	391.16	54.32	PRAIRIE VIEW RD /I-29 ON RAMP
SB			300.00	14	6 to 0	14	600.00	65.37	433.33	47.76	103.33	14.81	PRAIRIE VIEW RD /I-29 ON RAMP
SB	105.550	105.590	212.00	0 to 12	0	8	188.44	20.53	141.33	15.58	32.98	10.47	MO 92/ I-29 OFF RAMP TAPER
SB	105.590	105.660	370.00	12	0	8	575.56	62.70	246.67	27.19	82.22	18.27	MO 92/ I-29 OFF RAMP
SB		106.077	342.00	15	6	8	722.00	78.66	228.44	25.18	95.04	16.89	MO 92/ I-29 ON RAMP TO PAINTED GORE
SB	106.077	106.267	1,000.00	12	0	8	1,555.56	169.47	666.67	73.48	222.22	49.38	US 435/ I-29 OFF RAMP
SB	106.267	106.320	282.00	15	6	8	595.33	64.86	188.44	20.77	78.38	13.93	US 435/ I-29 OFF RAMP
SB	107.192	107.232	211.20	18	6	8	516.27	56.24	141.24	15.57	65.75	10.43	US 435/ I-29 ON RAMP
SB	108.791	108.811	105.60	15	6	8	222.93	24.29	70.84	7.81	29.38	5.21	MEXICO CITY AVE./ I-29 OFF RAMP
SB			1,530.00	15	6	8	3,230.00	351.89	1,020.44	112.48	425.04	75.56	MEXICO CITY AVE./ I-29 OFF RAMP
SB			144.44	0	8	8	144.44	15.74	409.78	45.17	55.42	15.19	MEXICO CITY AVE./ I-29 OFF RAMP
SB			935.00	0	8	8	216.67	23.60	623.11	68.68	83.98	23.09	MEXICO CITY AVE./ I-29 ON RAMP
SB			675.00	18	6	8	1,650.00	179.76	450.44	49.65	210.04	33.33	MEXICO CITY AVE./ I-29 ON RAMP
SB	109.051	109.072	110.88	18	6	8	271.04	29.53	74.36	8.20	34.54	5.48	MEXICO CITY AVE./ I-29 ON RAMP
NB	19.763	19.783	105.60	18	6	8	258.13	28.12	70.84	7.81	32.90	5.21	MEXICO CITY AVENUE/ I-29 OFF RAMP
NB			485.00	18	6	8	1,185.56	129.16	323.78	35.69	150.93	23.95	MEXICO CITY AVENUE/ I-29 OFF RAMP
NB			610.00		6	0	142.22	15.49	270.89	29.86	41.31	30.12	MEXICO CITY AVENUE/ I-29 OFF RAMP
NB			635.00		0	8	144.44	15.74	423.11	46.64	56.76	15.68	MEXICO CITY AVENUE/ I-29 ON RAMP
NB			595.00	15	6	8	1,256.11	136.85	397.11	43.77	165.32	29.38	MEXICO CITY AVENUE/ I-29 ON RAMP
NB	19.963	19.982	100.32	15	6	8	211.79	23.07	67.32	7.42	27.91	4.95	MEXICO CITY AVENUE/ I-29 ON RAMP
NB	21.502	21.542	211.20	15	6	8	445.87	48.58	141.24	15.57	58.71	10.43	435 SOUTH/ I-29 OFF RAMP
NB	22.383	22.402	100.32	15	6	8	211.79	23.07	67.32	7.42	27.91	4.95	435 NORTH/ I-29 ON RAMP
NB	22.631	22.681	455.00	16	6	8	1,011.11	110.15	303.78	33.48	131.49	22.47	MO 92/ I-29 OFF RAMP
NB			240.00	16 to 24	6	0	533.33	58.10	0.44	0.05	53.38	11.85	MO 92/ I-29 OFF RAMP
NB			340.00	24	6	0	982.22	107.01	0.44	0.05	98.27	16.79	MO 92/ I-29 OFF RAMP
NB			1,000.00	16	10	12	2,222.22	242.10	1,112.00	122.57	333.42	49.38	MO 92/ I-29 ON RAMP
NB		23.051	135.00	16	0	12	270.00	29.42	150.00	16.53	42.00	6.67	MO 92/ I-29 ON RAMP
NB	23.800	23.882	175.00	0 to 18	0	6	175.22	19.09	77.78	8.57	25.30	4.32	HWY HH/ I-29 OFF RAMP
NB	23.882		760.00	18	6	0	1,857.78	202.39	337.78	37.23	219.56	18.77	HWY HH/ I-29 OFF RAMP
NB			252.00		6	0	428.89	46.73	112.00	12.34	54.09	6.22	HWY HH/ I-29 OFF RAMP
NB			495.00	22	0	0	1,210.00	131.82				16.15	RTE HH INTERSECTION (BRIDGE TO END)
NB			1,125.00	16	6	0	2,500.00	272.36	500.00	55.11	300.00	27.78	HWY HH/ I-29 ON RAMP
NB	24.191	24.252	105.00	14	0	6	186.67	20.34	46.44	5.12	23.31	2.59	HWY HH/ I-29 ON RAMP
NB	25.272		350.00	0 to 16	0	8	155.56	16.95	233.11	25.69	38.87	17.28	273 NORTH/ I-29 OFF RAMP
NB			810.00	16	8	8	1,620.00	176.49	540.67	59.59	216.07	40.00	273 NORTH/ I-29 OFF RAMP
								SUBTOTAL	35,754.27			7,832.82	SEE OUTER ROAD FOR OTHER TOTALS
								PAY TOTAL	35,754.3			7,832.8	

* SEE NEXT SHEET FOR PAY TOTAL
UNDER OUTER ROAD QUANTITIES

SUMMARY OF QUANTITIES
SHEET 6 OF 11



DATE PREPARED
6/3/2024

ROUTE
I-29

DISTRICT
KC

COUNTY
PLATTE

JOB NO.
JKU0072

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE												

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-27

TOTALS AND OUTER ROADS PAVEMENT QUANTITIES						
OUTER ROAD	WORK LIMITS LENGTH	ROADWAY AVERAGE WIDTH	PAVEMENT AREA	1" CLC 1.975 TONS/CY	TACK COAT (0.08 GAL/SY) GAL	1" GRAVEL SY
	FT	FT	SY	TONS		SY
KNIGHTON AVE	1979.6	24	5278.93	289.61	422.31	
KNIGHTON AVE	1493.4	18				2986.80
ROANRIDGE ROAD	5100.0	20	11333.33	621.76	906.67	
			ABOVE SUBTOTAL	911.37	1,328.98	2,986.80
			1-29 SUBTOTAL		40,435.58	
			PAY TOTAL	911.4	41,765	2,987

* UNDERSEALING HIGH DENSITY POLYURETHANE (ALTERNATE A)							
LOCATION	BEGIN LOG	END LOG	LENGTH FT	NUMBER OF LANES	TOTAL NUMBER JOINTS/CRACKS	POLYURETHANE LBS	REMARKS
NB - SECTION 1	18.9	21.5	13728	1	457.6	41184	30' JOINT SPACING
NB - SECTION 2	23.88	25.37	7867.2	2	524.5	47205	30' JOINT SPACING
SB - SECTION 1	103.06	103.06	5808	2	387.2	34848	30' JOINT SPACING
SB - SECTION 2	106.74	106.74	2692.8	2	179.5	16155	30' JOINT SPACING
SB - SECTION 3	107.25	107.25	13675.2	3	1367.5	123075	30' JOINT SPACING
					PAY TOTAL	262,467	

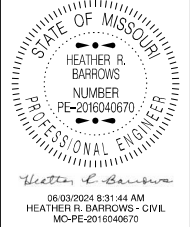
* NOT TO BE PERFORMED IN PAVEMENT REPAIR LOCATIONS

* UNDERSEALING ASPHALT CEMENT (ALTERNATE B)							
LOCATION	BEGIN LOG	END LOG	LENGTH FT	NUMBER OF LANES	TOTAL NUMBER JOINTS/CRACKS	ASPHALT CEMENT GAL	REMARKS
NB - SECTION 1	18.9	21.5	13728	1	457.6	27456	30' JOINT SPACING
NB - SECTION 2	23.88	25.37	7867.2	2	524.5	31470	30' JOINT SPACING
SB - SECTION 1	103.06	103.06	5808	2	387.2	23232	30' JOINT SPACING
SB - SECTION 2	106.74	106.74	2692.8	2	179.5	10770	30' JOINT SPACING
SB - SECTION 3	107.25	107.25	13675.2	3	1367.5	82050	30' JOINT SPACING
					PAY TOTAL	174,978	

BITUMINOUS COLDMILLING								
DIRECTION	LOG MILE	LENGTH FT	NUMBER OF LANES	INSIDE SHOULDER FT	OUTSIDE SHOULDER FT	2" COLDMILLING SY	MODIFIED COLDMILLING (DEPTH TRANSITION) SY	REMARKS
I-29 MAINLINE								
SB	103.055	200	2	4	10		844.4	BEGINNING OF PROJECT
SB	103.619	200	2	4	10		844.4	BRIDGE TRANSITION
SB	103.719	200	2	4	10		844.4	BRIDGE TRANSITION
SB	103.818	200	2	4	10		844.4	BRIDGE TRANSITION
SB	103.958	200	2	4	10		844.4	BRIDGE TRANSITION
SB	109.854	200	2	4	10		844.4	END OF PROJECT
NB	18.898	200	3	4	10		1111.1	BEGINNING OF PROJECT
NB	24.794	200	2	4	10		844.4	BRIDGE TRANSITION
NB	24.934	200	2	4	10		844.4	BRIDGE TRANSITION
NB	25.034	200	2	4	10		844.4	BRIDGE TRANSITION
NB	25.134	200	2	4	10		844.4	BRIDGE TRANSITION
NB	25.680	200	2	4	10		844.4	END OF PROJECT
I-29 RAMPS								
SB	103.359	200	1	4	10		401.6	ROUTE 273/I-29 ON RAMP
SB	104.098	200	1	4	10		401.6	MAIN STREET /I-29 OFF RAMP
SB	105.018	200	1	4	10		401.6	MAIN STREET /I-29 ON RAMP
SB	105.694	200	1	4	10		401.6	92 HWY/ I-29 OFF RAMP
SB	106.054	200	1	4	10		401.6	92 HWY/ I-29 ON RAMP
SB	106.294	200	1	4	10		401.6	US 435/ I-29 OFF RAMP
SB	107.212	200	1	4	10		401.6	US 435/ I-29 ON RAMP
SB	108.791	200	1	4	10		401.6	MEXICO CITY AVE./ I-29 OFF RAMP
SB						144.4		MEXICO CITY AVE./ I-29 OFF RAMP
SB						216.7		MEXICO CITY AVE./ I-29 ON RAMP
SB	109.051	200	1	4	10		401.6	MEXICO CITY AVE./ I-29 ON RAMP
NB	19.763	200	1	4	10		401.6	MEXICO CITY AVENUE/ I-29 OFF RAMP
NB						142.2		MEXICO CITY AVENUE/ I-29 OFF RAMP
NB						144.4		MEXICO CITY AVENUE/ I-29 ON RAMP
NB	19.982	200	1	4	10		401.6	MEXICO CITY AVENUE/ I-29 ON RAMP
NB	21.522	200	1	4	10		401.6	435 SOUTH/ I-29 OFF RAMP
NB	22.383	200	1	4	10		401.6	435 NORTH/ I-29 ON RAMP
NB	22.660	200	1	4	10		401.6	HWY 92/ I-29 OFF RAMP
NB	23.041	200	1	4	10		401.6	HWY 92/ I-29 ON RAMP
NB	23.881	200	1	4	10		401.6	HWY HH/ I-29 OFF RAMP
NB			1	6	2	1512.8		HWY HH/ I-29 OFF RAMP
NB		495	2	0	0	1210.0		HWY HH, 22' WIDE
NB			1	6	2	2197.8		HWY HH/ I-29 ON RAMP
NB	24.153	200	1	4	10		401.6	HWY HH/ I-29 ON RAMP
NB	25.394	200	1	4	10		401.6	ROUTE 273/ I-29 OFF RAMP
NW KNIGHTON AVENUE								
		100	2				266.7	24' WIDE NORTH OF ROUTE HH
NW ROANRIDGE ROAD								
		100	2					20' WIDE NORTH OF BETHAL ROAD
						SUBTOTAL	5568.3	18117.2
						TOTAL	5,569	18,118

BITUMINOUS SHOULDER RUMBLE STRIP				
DIRECTION	LOG MILE	LOG MILE	SIDE	LENGTH STA.
SB	103.055	103.359	LT/RT	32.10
SB	103.359	103.559	LT	10.56
SB	103.559	103.639	LT/RT	8.45
SB	103.719	103.838	LT/RT	12.57
SB	103.958	105.038	LT/RT	114.05
SB	105.038	105.257	LT	11.56
SB	105.257	105.535	LT/RT	29.36
SB	105.535	105.714	LT	9.45
SB	105.714	106.034	RT/LT	33.79
SB	106.034	106.074	LT	2.11
SB	106.074	107.212	RT/LT	120.17
SB	107.212	107.252	LT	2.11
SB	107.252	108.711	RT/LT	154.07
SB	108.711	108.811	LT	5.28
SB	108.811	109.854	LT/RT	110.14
NB	18.898	19.642	LT/RT	78.57
NB	19.642	19.783	LT	7.44
NB	19.783	19.963	LT/RT	19.01
NB	19.963	20.122	LT	8.40
NB	20.122	22.601	LT/RT	261.78
NB	22.601	22.660	LT	3.12
NB	22.660	23.020	LT/RT	38.02
NB	23.020	23.181	LT	8.50
NB	23.181	23.821	LT/RT	67.58
NB	23.821	23.901	LT	4.22
NB	23.901	24.232	LT/RT	34.95
NB	24.232	24.372	LT	7.39
NB	24.372	24.794	LT/RT	44.56
NB	24.934	25.054	LT/RT	12.67
NB	25.134	25.294	LT/RT	16.90
NB	25.294	25.394	LT	5.28
NB	25.394	25.680	LT/RT	30.20
			PAY TOTAL	1304.4

SUMMARY OF QUANTITIES
SHEET 7 OF 11



DATE PREPARED
6/3/2024

ROUTE I-29	STATE MO
DISTRICT KC	SHEET NO. 3

COUNTY
PLATTE

JOB NO.
JKU0072

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)

I -29 PERMANENT PAVEMENT MARKING											
DIR.	LOG MILE	LOG MILE	LENGTH	MAINLINE NO. OF LANES	HIGH BUILD						REMARKS
					SOLID YELLOW 6"	SOLID WHITE 12" GORE	DOTTED WHITE 12"	DOTTED WHITE 6"	SOLID WHITE 6"	INTER. WHITE 6"	
					LF	LF	LF	LF	LF	LF	
SB	103.055	103.381	1721	2	1721				1721	430	
SB	103.381	103.421	211	2	211	422			211	53	GORE ON RAMP AT RTE 273
SB	103.421	103.542	639	2	639				639	160	
SB	103.542	103.940	2101	2	2101			425	2101	525	6" DOTTED WHITE LM103.421- LM103.582
SB	103.940	104.088	781						781		
SB	103.940	104.142	1067	2	1067			158		267	6" DOTTED WHITE LM104.062-LM104.092
SB	104.088	104.129	216			431					GORE ON RAMP AT RTE HH (MAIN ST)
SB	104.129	104.142	69						69		
SB	104.142	105.028	4678	2	4678				4678	1170	
SB	105.028	105.102	391	2	391	782				98	
SB	105.102	105.222	634	2	634			243	634	158	6" DOTTED WHITE LM105.102-LM105.262, GORE AT ON RAMP FROM HH
SB	105.222	105.601	2001	2	2001				2001	500	
SB	105.601	105.681	422	2	422			739	422	106	6" DOTTED WHITE LM105.541-LM105.681
SB	105.681	105.735	285	2	285	570			285	71	GORE AT MO 92 OFF RAMP, 3LT/2RT ARROWS
SB	105.735	106.040	1610	2	1610				1610	403	
SB	106.040	106.080	211	2	211	422				53	GORE AT MO 92 ON RAMP
SB	106.080	106.255	924	2	924		213		924	231	WIDE DOTTED WHITE LM106.08-LM106.106.241
SB	106.255	106.321	348	2	348	696			348	87	GORE AT I-435
SB	106.321	107.200	4641	2	4641				4641	1160	
SB	107.200	107.270	370	2	370	740			370	92	GORE AT I-435 ON RAMP
SB	107.270	108.781	7978	3	7978				7978	3989	WIDE DOTTED WHITE LM108.281-LM108.781
SB	108.781	108.842	322	3	322	644			322	161	GORE AT MEXICO CITY AVE
SB	108.842	109.062	1162	3	1162				1162	581	WIDE DOTTED WHITE LM109.002-LM109.080
SB	109.062	109.080	95	3	95	190	103		95	48	GORE AT MEXICO CITY AVE
SB	109.080	109.523	2339	3	2339	2218	1170		2339	585	WIDE DOTTED WHITE LM109.080-LM109.523
SB	109.523	109.644	638.88	3	639	1278			639	319	
SB	109.644	109.854	1108.8	2	1109				1109	277	
NB	18.898	19.655	3997	3	3997			634	3997	1998	6" DOTTED WHITE LM19.615- LM19.735
NB	19.655	19.735	422	3	422	220			422	211	
NB	19.735	21.534	9498.72	3	9498.72	1045	1320	317	9498.72	4089.36	LM19.995- LM20.055 (ON RAMP) AND WIDE DOTTED
NB	21.534	22.333	4219	2	4219				4219	1055	
NB	22.333	22.393	317	2	317	634			317	79	GORE
NB	22.393	22.592	1051	2	1051		263		1051	263	GORE TO GORE, WIDE DOTTED WHITE LM22.393- LM22.592
NB	22.592	22.651	312	2	312	624			312	78	GORE AT MO 92 OFF RAMP
NB	22.651	23.012	1906	2	1906				1906	477	
NB	22.985	23.052	354	2	354	708			354	88	GORE AT MO 92 ON RAMP
NB	23.052	23.132	422	2	422			314	422	106	6" DOTTED WHITE LM23.052- LM23.171
NB	23.132	23.842	3749	2	3749			108	3749	937	6" DOTTED WHITE LM2

SUMMARY OF QUANTITIES
SHEET 8 OF 11

DATE PREPARED
6/3/2024

ROUTE	STATE
I - 29	MO

DISTRICT	SHEET NO
KC	3

COUNTY
PLATTE

JOB NO.
JKU0072

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

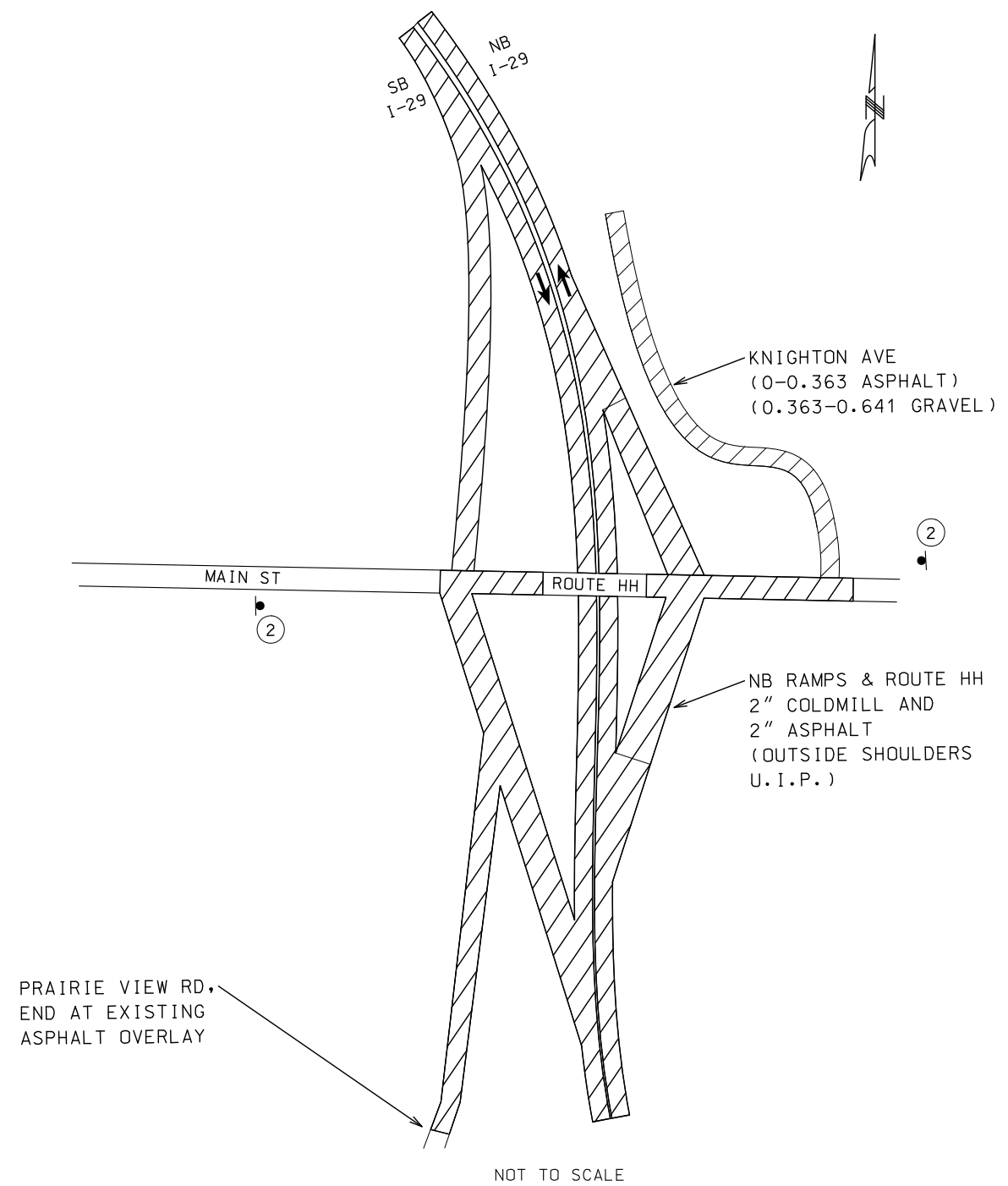
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

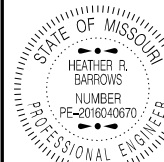
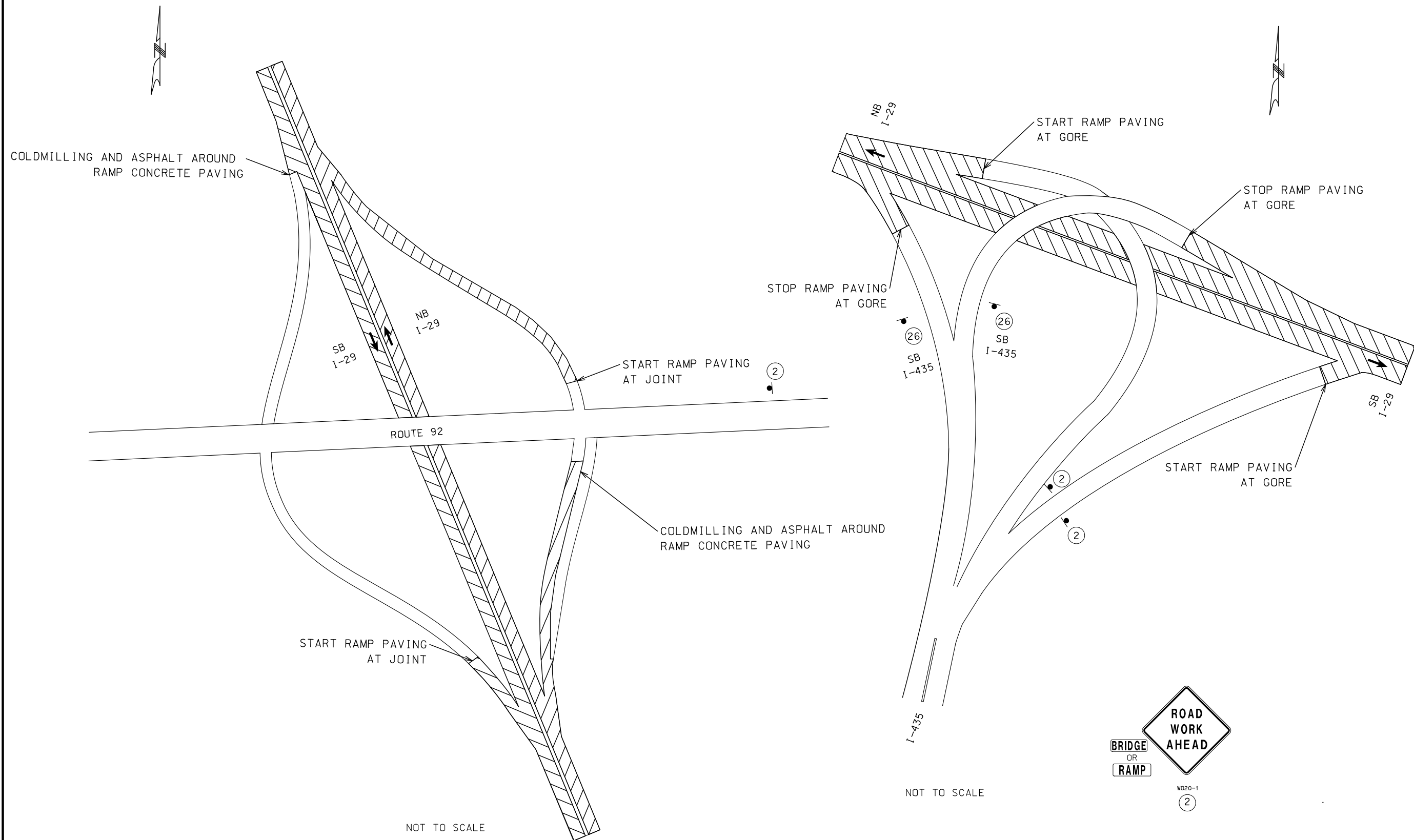
MoDOT

105 WEST CAPITAL
JEFFERSON CITY, MO 65102

SUMMARY OF QUANTITIES
SHEET 11 OF 11



STATE OF MISSOURI HEATHER R. BARROWS NUMBER PE-2016040670 PROFESSIONAL ENGINEER Heather R. Barrows 07/09/2024 8:26:50 AM HEATHER R. BARROWS - CIVIL MO-PE-2016040670 DATE PREPARED 7/2/2024 ROUTE I - 29 DISTRICT KC STATE MO SHEET NO. 4 COUNTY PLATTE JOB NO. JKU0072 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 <tr><td colspan="2">RAMP AND OUTER ROADS SHEET 1 OF 3</td></tr>		RAMP AND OUTER ROADS SHEET 1 OF 3	
RAMP AND OUTER ROADS SHEET 1 OF 3			



07/09/2024 8:27:39 AM
HEATHER R. BARROWS - CIVIL
MO. DE. 2012010030

DATE PREPARED
7/2/2024

ROUTE	STATE
-------	-------

I - 29	MO
--------	----

DISTRICT SHEET NO.
KC 5

KC	3
COUNTY	

PLATTE

JOB NO.

JKU0072

CONTRACT ID.

PROJECT NO. _____

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

RAMPS AND OUTER ROADS
SHEET 2 OF 3

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	DIVIDED HIGHWAYS
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 MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
<40	160'	168'	176'	BARRIER HEIGHT TRANSITION
≥40	160'	168'	176'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (L)			MINIMUM SHOULDER TAPER LENGTH (T1) BASED ON 10' SHOULDER	BUFFER LENGTH FT	MAXIMUM CHANNELIZER SPACING	
						THROUGH TAPER	THROUGH WORK AREA
	0-35	205'	225'	245'	70'	280'	35'
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:

- SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- 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

LANE 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

SHOULDER TAPER LENGTH (T1)

ADJUST LENGTH ACCORDING TO SHOULDER WIDTH BASED ON TABLE RATE FOR 10' WIDE.

TRAFFIC CONTROL LEGEND

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

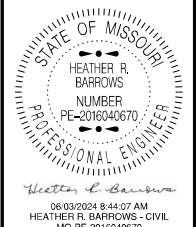
LEGEND NOTE:

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

GENERAL NOTES:

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

EPG TABLE 616.29 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.	



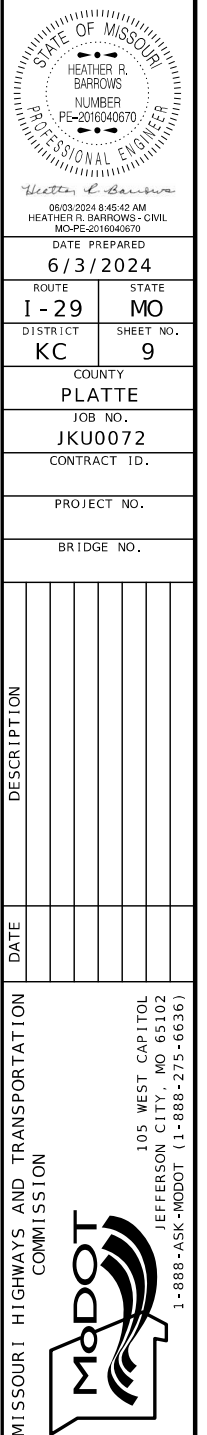
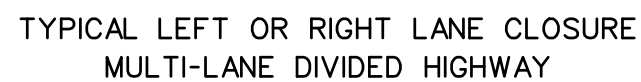
DATE PREPARED 6/3/2024	
ROUTE I - 29	STATE MO
DISTRICT KC	SHEET NO. 7
COUNTY PLATTE	
JOB NO. JKU0072	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

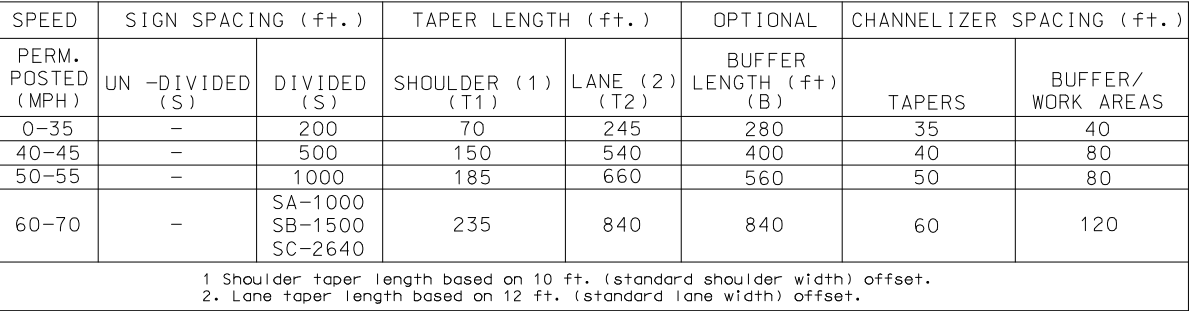
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



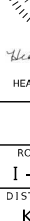
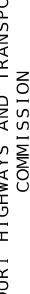




TRAFFIC CONTROL LEGEND

	SIGN (SINGLE SIDED)
	CHANNELIZER (TRIM-LINE)
	DIRECTIONAL INDICATOR CHANNELIZER
	FLASHING ARROW PANEL
	BARRICADE
	CHANGEABLE MESSAGE BOARD
	WORK ZONE

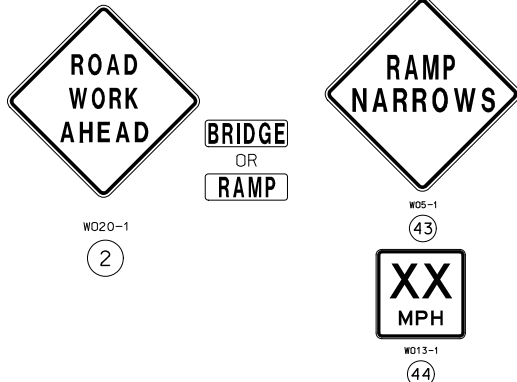
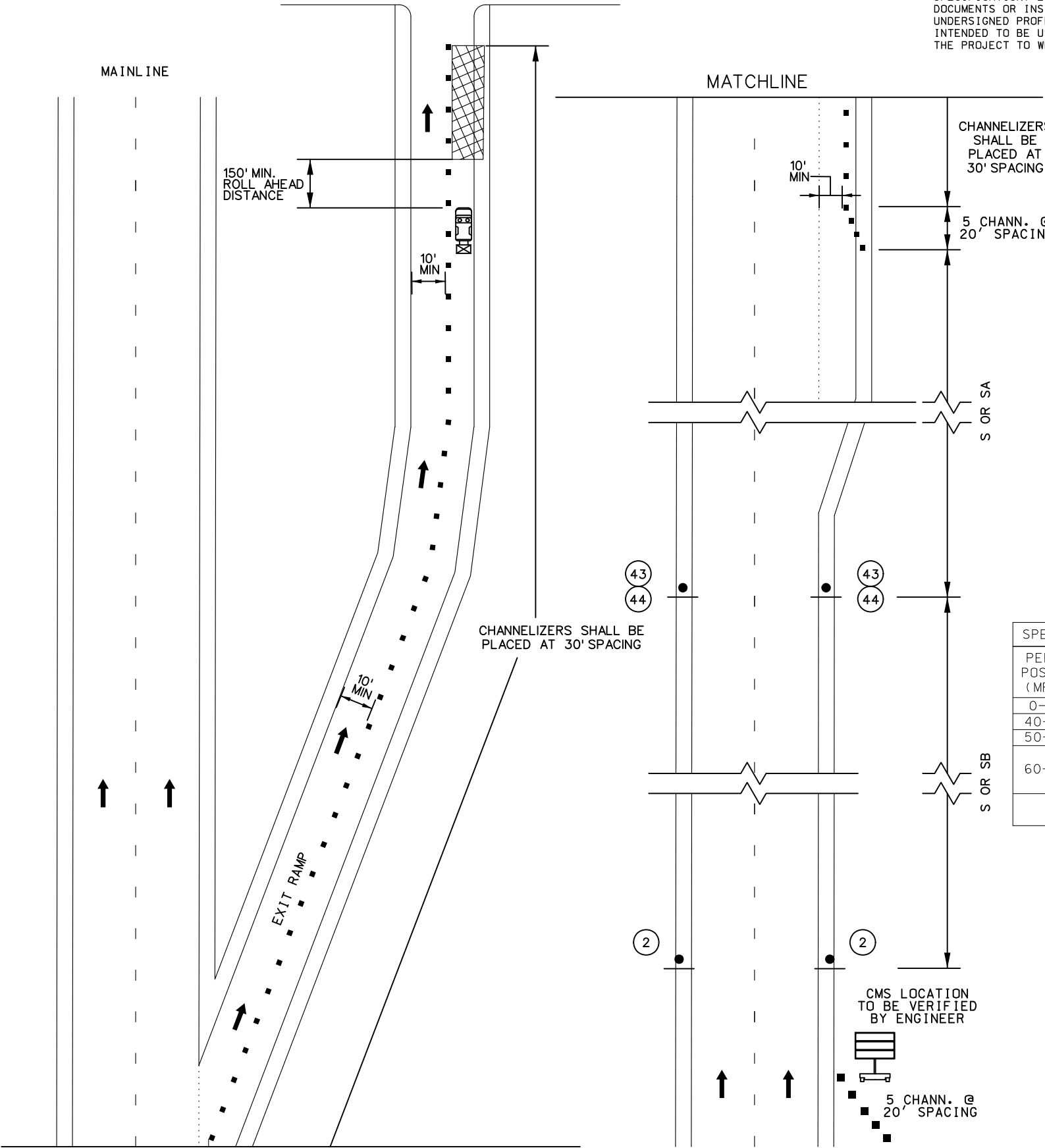
PARTIAL RAMP CLOSURE

	
DATE PREPARED 6/3/2024	
ROUTE I - 29	STATE MO
DISTRICT KC	SHEET NO. 10
COUNTY PLATTE	
JOB NO. JKU0072	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
	
105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	

NOT TO SCALE

DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



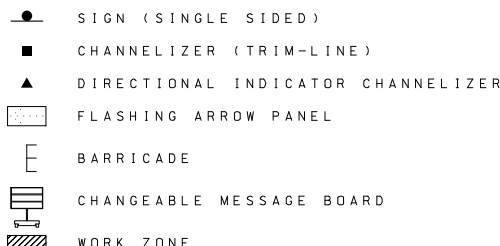
GENERAL NOTES:

- ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED.
- ALL SIGNS SHALL BE GROUND-MOUNTED.
- ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

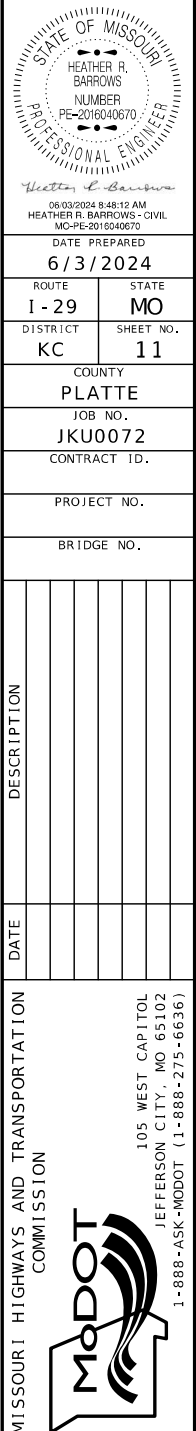
SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

TRAFFIC CONTROL LEGEND



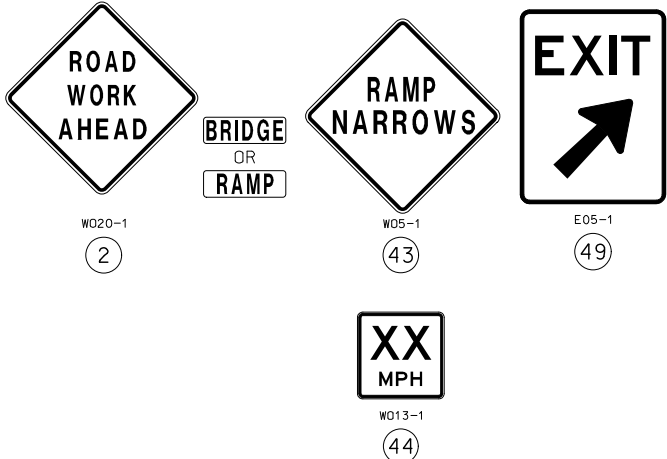
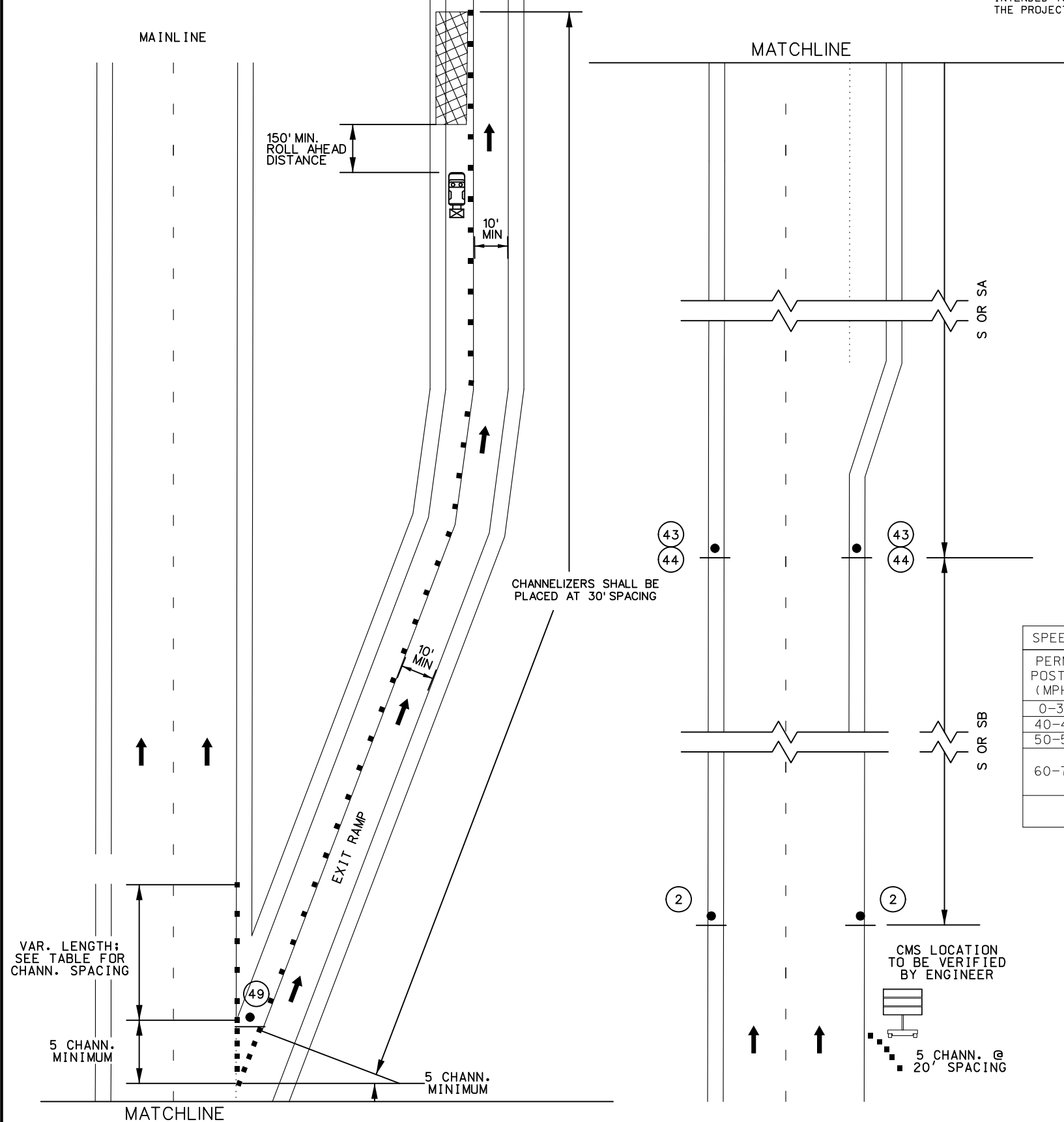
END OF RAMP
LANE CLOSURE



NOT TO SCALE

DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



GENERAL NOTES:

- ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED.
- ALL SIGNS SHALL BE GROUND-MOUNTED.
- ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

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	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

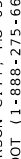
TRAFFIC CONTROL LEGEND

- | | |
|---|-----------------------------------|
|  | SIGN (SINGLE SIDED) |
|  | CHANNELIZER (TRIM-LINE) |
|  | DIRECTIONAL INDICATOR CHANNELIZER |
|  | FLASHING ARROW PANEL |
|  | BARRICADE |
|  | CHANGEABLE MESSAGE BOARD |
|  | WORK ZONE |

PARTIAL RAMP CLOSURE
NEAR INTERSECTION
ON THE LEFT

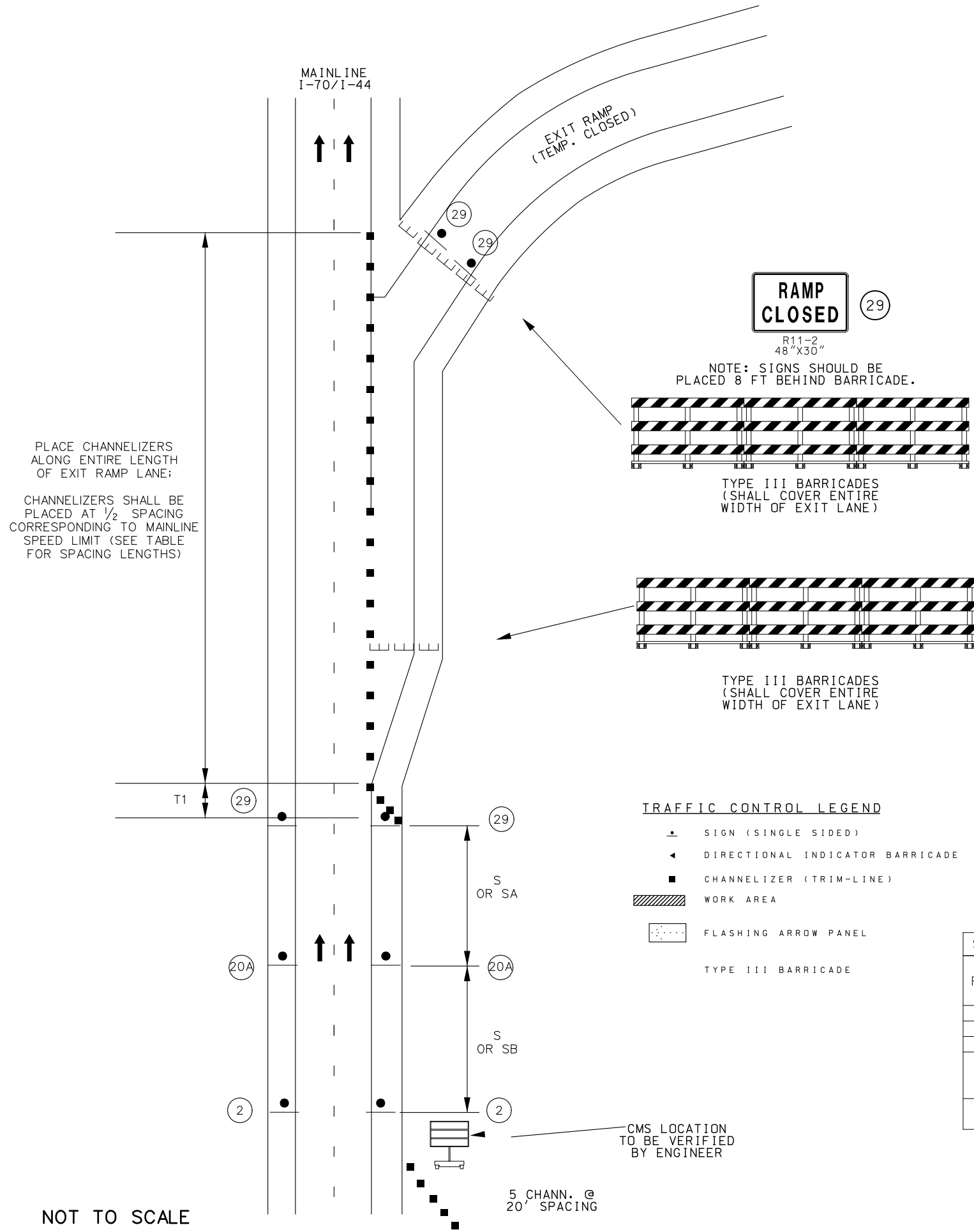


MOFPE-20160406/0	
DATE PREPARED	
6/3/2024	
ROUTE	STATE
I - 29	MO
DISTRICT	SHEET NO.
KC	12
COUNTY	
PLATTE	
JOB NO.	
JKU0072	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

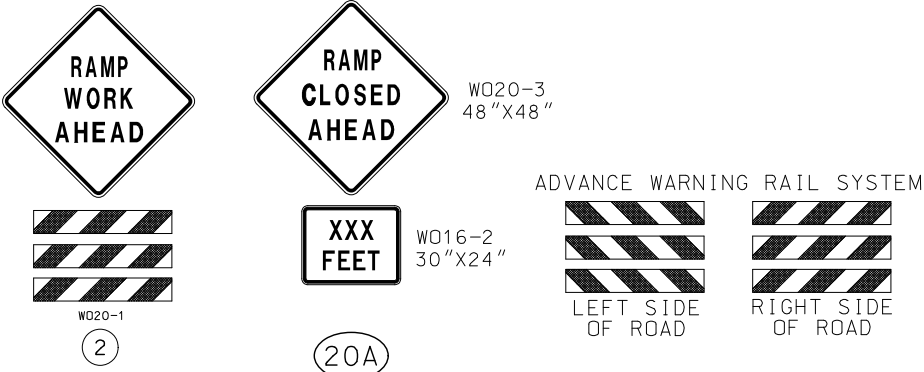
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



NOTES:

- REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
- FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.
- FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FOOT DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.
- RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.
- ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED.
- ALL SIGNS SHALL BE GROUND-MOUNTED.
- ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

TOTAL RAMP CLOSURE INCLUDING TAPER

STATE OF MISSOURI
HEATHER R. BARROWS
NUMBER
PE-2016040670
PROFESSIONAL ENGINEER
Heather R. Barrows
06/03/2024 8:49:23 AM
HEATHER R. BARROWS - CIVIL
MO-PE-2016040670

DATE PREPARED
6/3/2024

ROUTE
I-29

DISTRICT
KC

STATE
MO

SHEET NO.
13

COUNTY
PLATTE

JOB NO.
JKU0072

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)

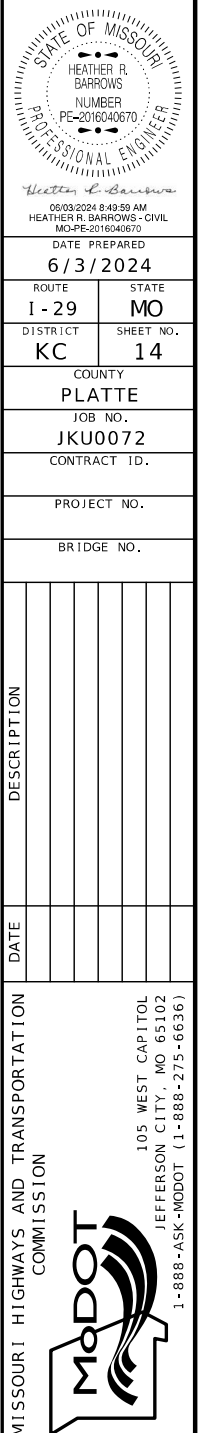


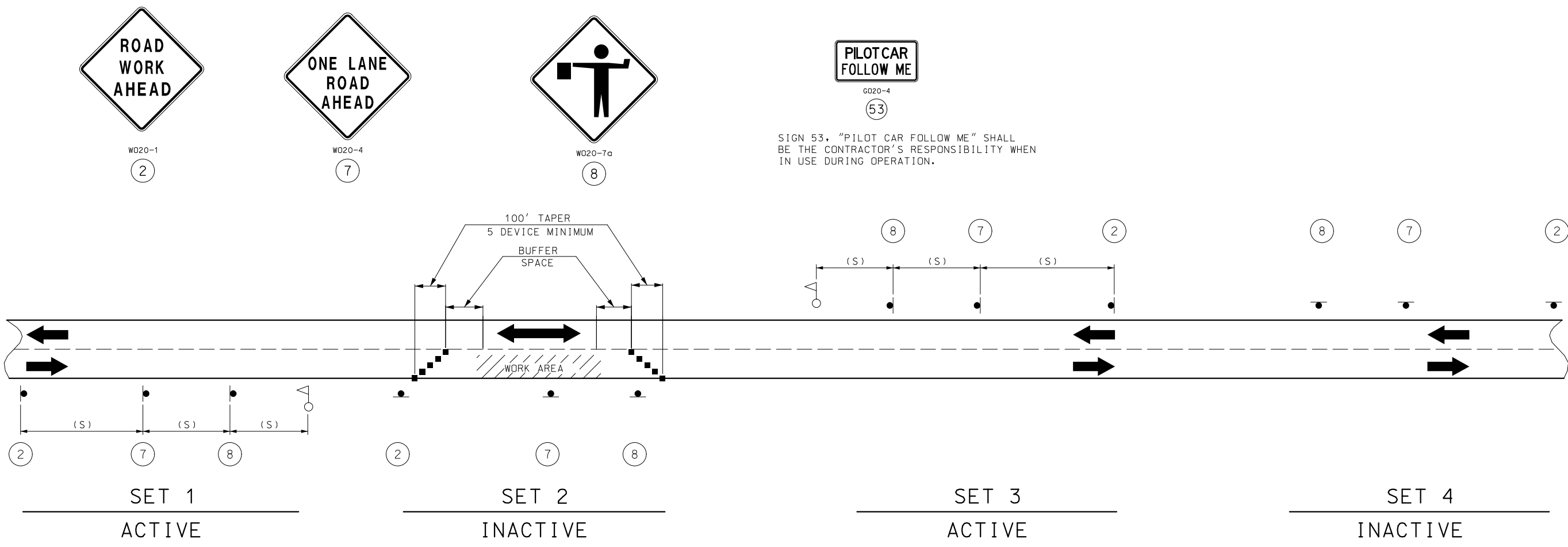
DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

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

TOTAL RAMP CLOSURE





NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

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

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

■ - CHANNELIZERS

○ - FLAGGER

SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

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

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

CLC
TRAFFIC CONTROL

STATE OF MISSOURI
HEATHER R. BARROWS
NUMBER
PE-2016040670
PROFESSIONAL ENGINEER

Heather R. Barrows
06/03/2024 8:52:36 AM
HEATHER R. BARROWS - CIVIL
MO-PE-2016040670

DATE PREPARED
6/3/2024

ROUTE
I-29

STATE
MO

DISTRICT
KC

SHEET NO.
17

COUNTY
PLATTE

JOB NO.
JKU0072

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)