MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
CRAWFORD/IRON COUNTIES

DESIGN DESIGNATION

A.A.D.T. - 2023 = 1126/1258/1722
V = 55 M.P.H.

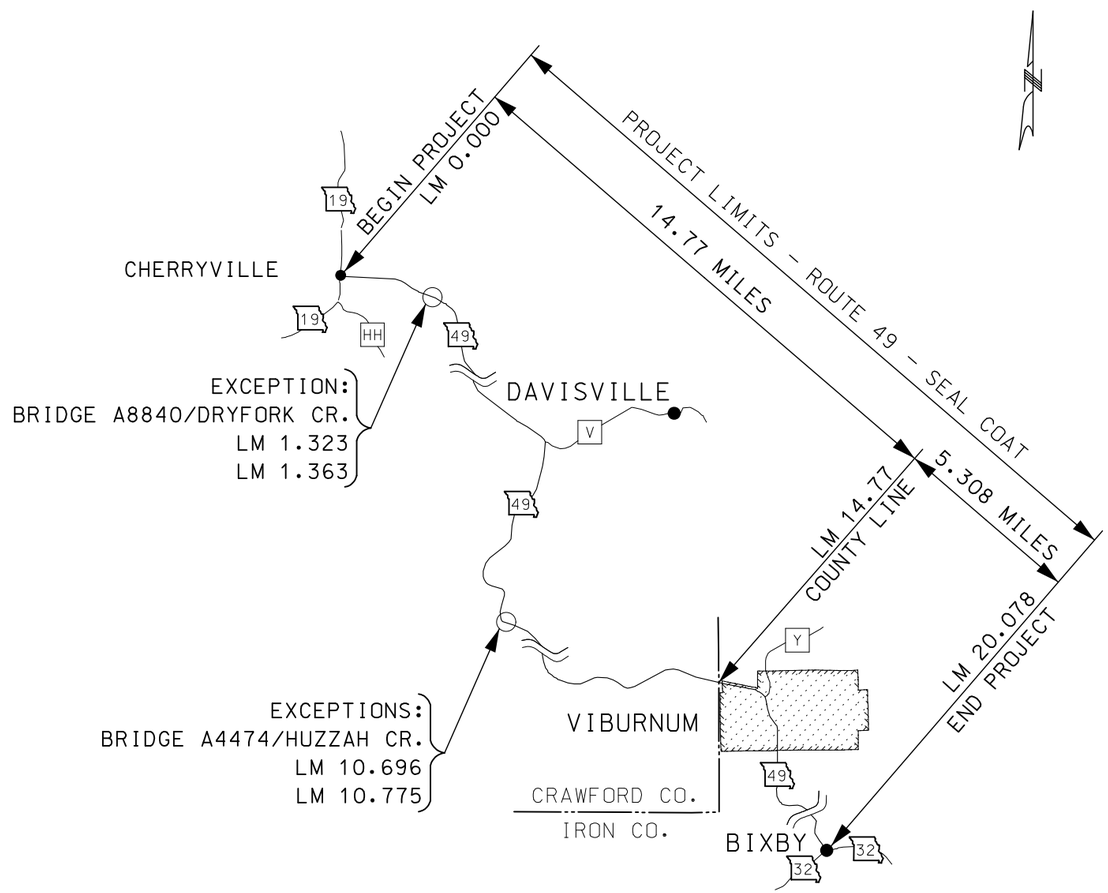
FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

KEY MAP
LOCATION OF CRAWFORD COUNTY
(PART IN IRON COUNTY)

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	DI	
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



NOT TO SCALE

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (2 SHEETS)	3
SPECIAL SHEETS (SS)	4-5
TRAFFIC CONTROL SHEETS (TC)	6-10

LENGTH OF PROJECT

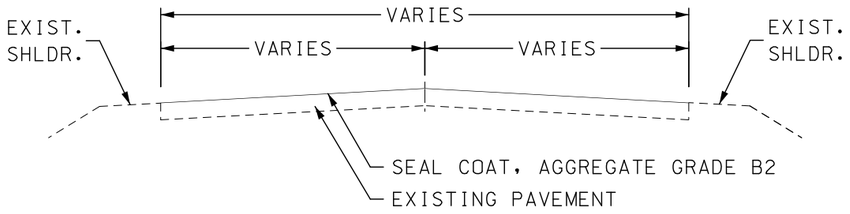
BEGINNING OF PROJECT	LOG MILE 0.000	
END OF PROJECT	LOG MILE 20.078	
APPARENT LENGTH	20.078	MILES
EQUATIONS AND EXCEPTIONS: NONE		
BRIDGE A8840 LM 1.323 TO LM 1.363	-0.040	MILE
BRIDGE A4474 LM 10.696 TO LM 10.775	-0.079	MILE
TOTAL CORRECTIONS	-628.32	FEET
NET LENGTH OF PROJECT	105,383.52	FEET
STATE LENGTH	19.959	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0	ACRES

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/18/2024
ROUTE	49
STATE	MO
DISTRICT	CD
SHEET NO.	1
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

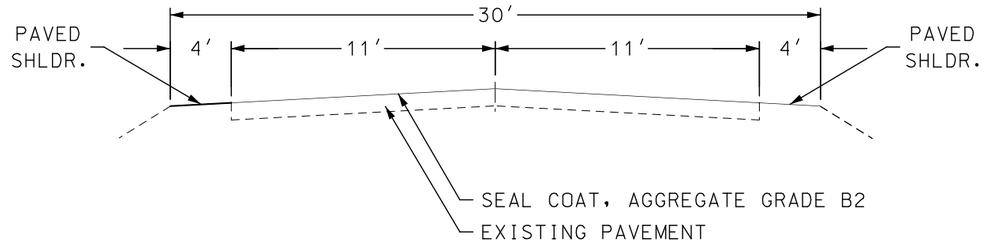
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PROPOSED TYPICAL SECTION

ROUTE 49

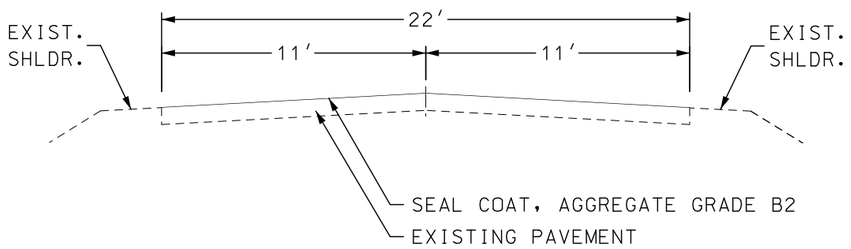
LM 0.000 TO LM 0.041 (BEGIN RTE. 19/LT.& RT. ENTRANCES)
LM 5.198 TO LM 5.246 (RTE. V)
LM 20.065 TO LM 20.078 (END RTE. 32)



PROPOSED TYPICAL SECTION

ROUTE 49

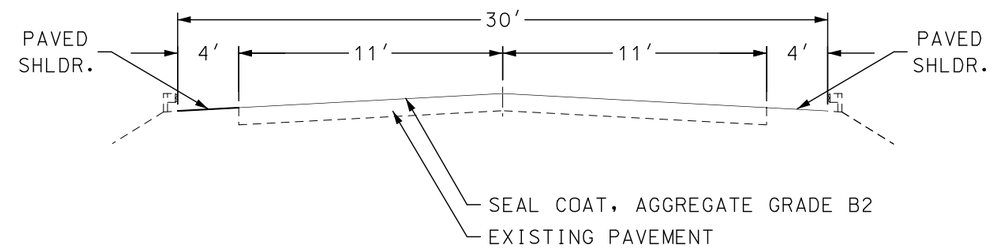
LM 1.263 TO LM 1.303
LM 1.384 TO LM 1.443



PROPOSED TYPICAL SECTION

ROUTE 49

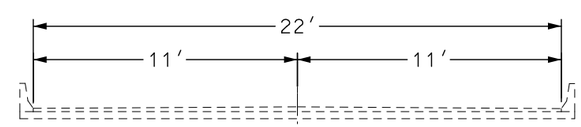
LM 0.041 TO LM 1.263
LM 1.443 TO LM 5.198
LM 5.246 TO LM 10.317



PROPOSED TYPICAL SECTION

ROUTE 49

LM 1.303 TO LM 1.323
LM 1.363 TO LM 1.384



PROPOSED TYPICAL SECTION

ROUTE 49

LM 1.323 TO LM 1.363 (EXCEPTION: BRIDGE A8840)

BINDER APPLICATION RATE	0.28 GAL/YD^2

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 3

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

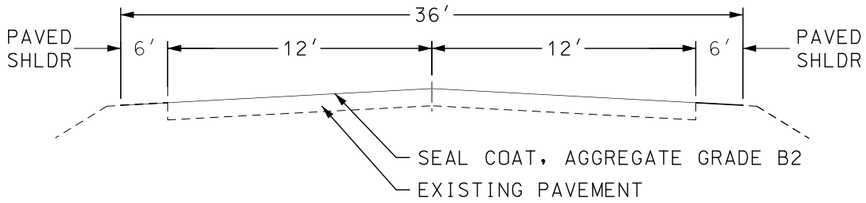
DATE PREPARED	3/12/2024
ROUTE	49
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

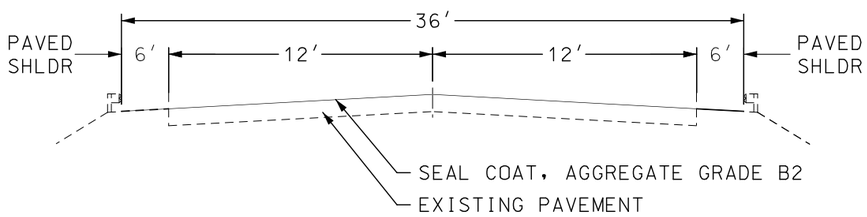
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

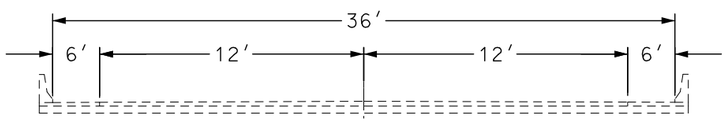
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



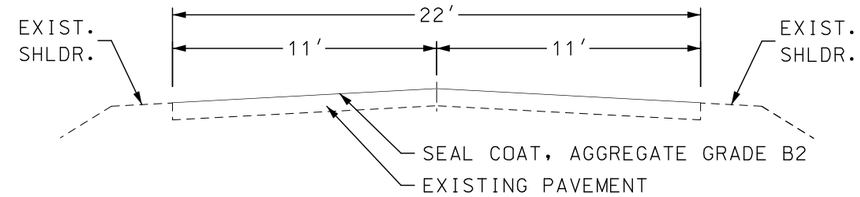
PROPOSED TYPICAL SECTION
ROUTE 49
LM 10.317 TO LM 10.656
LM 10.855 TO LM 11.076



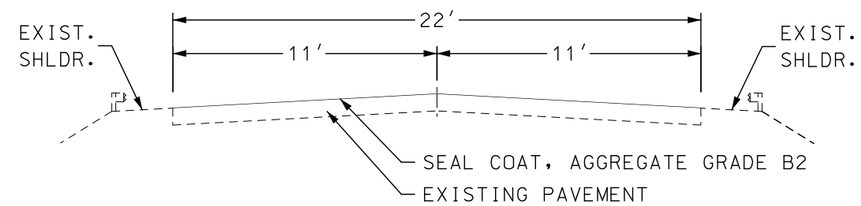
PROPOSED TYPICAL SECTION
ROUTE 49
LM 10.656 TO LM 10.696 (EXIST. GUARDRAIL/LT. & RT.)
LM 10.775 TO LM 10.855 (EXIST. GUARDRAIL/LT. & RT.)



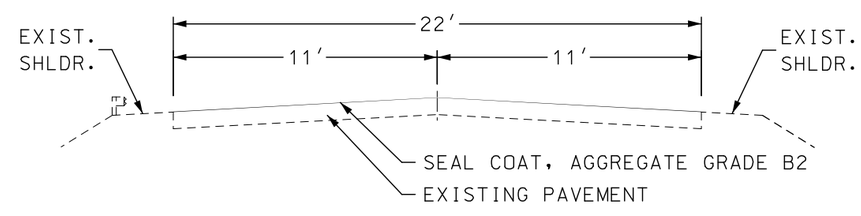
PROPOSED TYPICAL SECTION
ROUTE 49
LM 10.696 TO LM 10.775 (EXCEPTION: BRIDGE A4474)



PROPOSED TYPICAL SECTION
ROUTE 49
LM 11.076 TO LM 11.136
LM 11.195 TO LM 11.236
LM 11.275 TO LM 11.315



PROPOSED TYPICAL SECTION
ROUTE 49
LM 11.136 TO LM 11.195 (EXIST. GUARDRAIL/LT. & RT.)



PROPOSED TYPICAL SECTION
ROUTE 49
LM 11.236 TO LM 11.275 (EXIST. GUARDRAIL/LT.)

BINDER APPLICATION RATE	0.28 GAL/YD²

NOT TO SCALE

TYPICAL SECTIONS
SHEET 2 OF 3

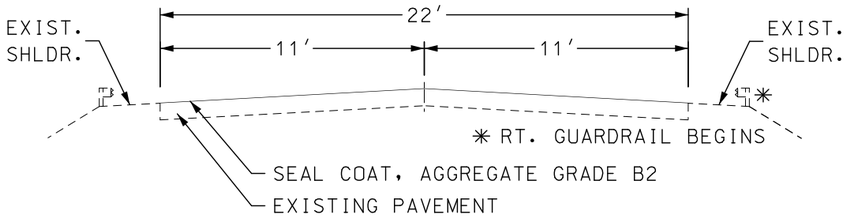
STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/12/2024
ROUTE	49
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

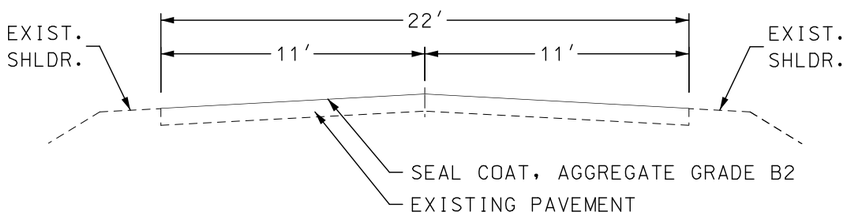
DESCRIPTION

DATE

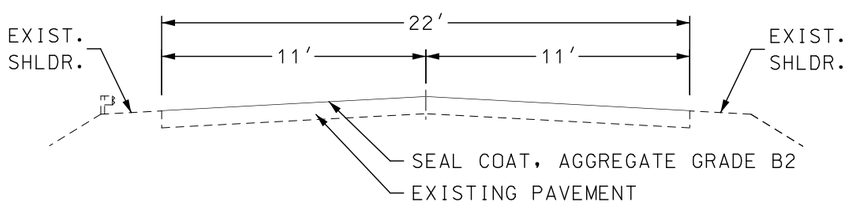
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



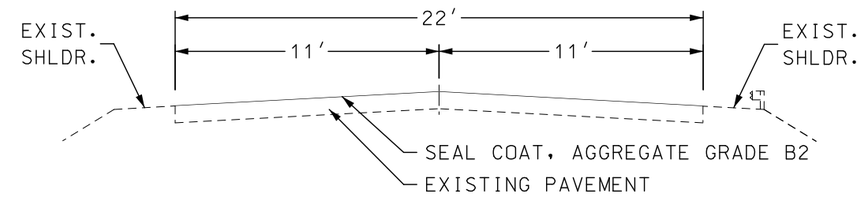
PROPOSED TYPICAL SECTION
ROUTE 49
LM 11.315 TO LM 11.378



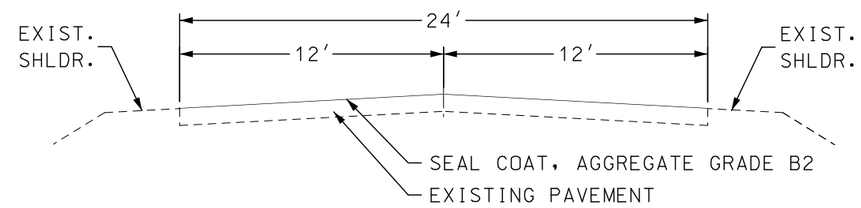
PROPOSED TYPICAL SECTION
ROUTE 49
LM 11.378 TO LM 11.417
LM 11.658 TO LM 14.820
LM 14.882 TO LM 18.222
LM 18.503 TO LM 20.065



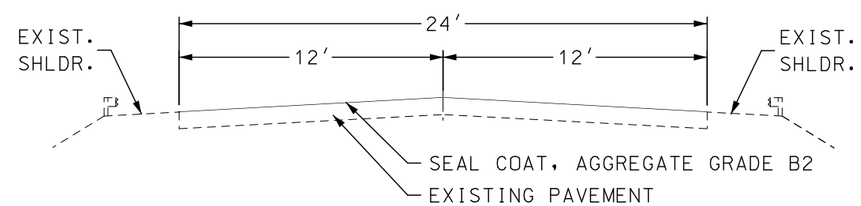
PROPOSED TYPICAL SECTION
ROUTE 49
LM 11.417 TO LM 11.658



PROPOSED TYPICAL SECTION
ROUTE 49
LM 14.820 TO LM 14.882 (BALL PARK)



PROPOSED TYPICAL SECTION
ROUTE 49
LM 18.222 TO LM 18.302
LM 18.362 TO LM 18.503



PROPOSED TYPICAL SECTION
ROUTE 49
LM 18.302 TO LM 18.362 ((BRIDGE A9251)

BINDER APPLICATION RATE	0.28 GAL/YD^2

NOT TO SCALE

TYPICAL SECTIONS
SHEET 3 OF 3

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/18/2024
ROUTE 49	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

SEAL COAT, GRADE B2 (ROUTE 49 / CRAWFORD COUNTY)

LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SF)	SEAL COAT AGGREGATE GRADE B2 (SY)	EMULSIFIED ASPHALT SEAL COAT (GAL)	REMARKS
0.000	0.041	RTE. 49	216.48	VARIES	10331.2	1148	321.4	BEGIN AT ROUTE19 / LT & RT ENTRANCES
0.041	1.263	RTE. 49	6452.16	22	141947.5	15771.9	4416.1	
1.263	1.303	RTE. 49	211.20	30	6336.0	704.0	197.1	4' PAVED SHLDRS.
1.303	1.323	RTE. 49	105.60	30	3168.0	352.0	98.6	4' PAVED SHLDRS. & EXIST. GUARDRAIL
1.323	1.363	RTE. 49	211.20	22				EXCEPTION: BRIDGE A8840
1.363	1.384	RTE. 49	110.88	30	3326.4	369.6	103.5	4' PAVED SHLDRS. & EXIST. GUARDRAIL
1.384	1.443	RTE. 49	311.52	30	9345.6	1038.4	290.8	4' PAVED SHLDRS.
1.443	5.198	RTE. 49	19826.40	22	436180.8	48464.5	13570.1	
5.198	5.246	RTE. 49	253.44	VARIES	12871.4	1430.2	400.5	RTE. 49 & RTE. V
5.246	10.317	RTE. 49	26774.88	22	589047.4	65449.7	18325.9	
10.317	10.656	RTE. 49	1789.92	36	64437.1	7159.7	2004.7	12' LANES & 6' PAVED SHLDRS.
10.656	10.696	RTE. 49	211.20	36	7603.2	844.8	236.5	12' LANES, 6' PAVED SHLDRS. & EXIST. GUARDRAIL
10.696	10.775	RTE. 49	417.12					EXCEPTION: BRIDGE A4474
10.775	10.855	RTE. 49	422.40	36	15206.4	1689.6	473.1	12' LANES, 6' PAVED SHLDRS. & EXIST. GUARDRAIL
10.855	11.076	RTE. 49	1166.88	36	42007.7	4667.5	1306.9	12' LANES & 6' PAVED SHLDRS.
11.076	11.136	RTE. 49	316.80	22	6969.6	774.4	216.8	
11.136	11.195	RTE. 49	311.52	22	6853.4	761.5	213.2	EXIST. GUARDRAIL
11.195	11.236	RTE. 49	216.48	22	4762.6	529.2	148.2	
11.236	11.275	RTE. 49	205.92	22	4530.2	503.4	141.0	EXIST. GUARDRAIL / LT.
11.275	11.315	RTE. 49	211.20	22	4646.4	516.3	144.6	
11.315	11.378	RTE. 49	332.64	22	7318.1	813.1	227.7	EXIST. GUARDRAIL / LT. & RT.
11.378	11.417	RTE. 49	205.92	22	4530.2	503.4	141.0	
11.417	11.658	RTE. 49	1272.48	22	27994.6	3110.5	870.9	EXIST. GUARDRAIL / LT.
11.658	14.820	RTE. 49	16695.36	22	367297.9	40810.9	11427.1	
14.820	14.882	RTE. 49	327.36	22	7201.9	800.2	224.1	EXIST. GUARDRAIL / RT. (BALL PARK)
14.882	18.222	RTE. 49	17635.20	22	387974.4	43108.3	12070.3	
18.222	18.302	RTE. 49	422.40	24	10137.6	1126.4	315.4	12' LANES
18.302	18.362	RTE. 49	316.80	24	7603.2	844.8	236.5	BRIDGE A9251 / 12' LANES / EXIST. GUARDRAIL/LT. & RT.
18.362	18.503	RTE. 49	744.48	24	17867.5	1985.3	555.9	12' LANES
18.503	20.065	RTE. 49	8247.36	22	181441.9	20160.2	5644.9	
20.065	20.078	RTE. 49	68.64	VARIES	3056.5	340	95.2	END AT ROUTE 32
					SUB-TOTAL	265777.8	74418.0	
					USE	265778	74418	

MOBILIZATION

1 LUMP SUM

CONSTRUCTION SIGNS (ROUTE 49)

SIGN NO.	SIGN	SIGN (in)	AREA (sf)	QTY.	TOTAL AREA (sf)	DESCRIPTION
1	G020-1	60 x 24	10.00	2	20.00	ROAD WORK NEXT 20 MILES
2	W020-1	48 x 48	16.00	14	224.00	ROAD WORK AHEAD
7	W020-4	48 x 48	16.00	6	96.00	ONE LANE ROAD AHEAD
8	W020-7a	48 x 48	16.00	14	224.00	FLAGGER (SYMBOL) WITH FLAGS
11	W03-4	48 x 48	16.00	10	160.00	BE PREPARED TO STOP
26	G020-2	48 x 24	8.00	2	16.00	END ROAD WORK
35	W08-12	48 x 48	16.00	20	320.00	NO CENTER LINE
53	G020-4	36 x 18	4.5	1	4.50	PILOT CAR FOLLOW ME
56	CONST-7	48 x 24	8.00	2	16.00	RATE OUR WORK ZONE
57	W08-7a	48 x 48	16.00	38	608.00	FRESH OIL LOOSE GRAVEL
58	G020-8a	42 x 30	8.75	2	17.50	PILOT CAR IN USE WAIT & FOLLOW
58	G020-8a	18 x 12	1.50	12	18.00	PILOT CAR IN USE WAIT & FOLLOW
59	CONST-8	48 x 36	12.00	2	24.00	WORK ZONE NO PHONE ZONE
	G022-1	21 x 15	2.19	4	8.76	WET PAINT (ARROW PIVOTS)
					1756.76	
				TOTAL	1757	
616-10.05 - CONSTRUCTION SIGNS						

REMOVAL OF IMPROVEMENTS

LOG MILE	LOG MILE	LOCATION	ITEM	REMARKS
14.820	14.882	ROUTE 49	EXIST. GUARDRAIL	RTE. 49 AT BALL PARK
1 LUMP SUM				

✳ IF LESS THAN TWO (2) MILES, DELETE SIGN NO. 1.

✳✳ ADDITIONAL SIGN NO. 2 USED AS SHOWN ON TRAFFIC CONTROL SHEET 3 OF 5 AND AS DIRECTED BY ENGINEER.

NOTE:

REFER TO STANDARD PLAN 616.10 AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

ADDITIONAL CONSTRUCTION ITEMS

ITEM NO.	DESCRIPTOIN	QTY.
616-1025	CHANNELIZERS	100
616-1098A	MESSAGE BOARD	2

GUARDRAIL

LOG MILE	LOG MILE	LOCATION	MGS GUARDRAIL LF	MGS END ANCHOR EA	TYPE A CRASHWORTHY END TERMINAL MASH EA	SHAPING SLOPES CLASS III AREA (100 FT.)	REMARKS
14.820	14.882	ROUTE 49	275.0	1.0	1.0	4.4	RTE. 49 AT BALL PARK
		TOTAL	275	1	1	4	
GUARDRAIL TO BE PLACED IN EXISTING LOCATIONS. VERIFY LOCATION IN THE FIELD BEFORE INSTALLATION.							

SUMMARY OF QUANTITIES
SHEET 1 OF 2

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/18/2024

ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
CD	3

COUNTY: CRAWFORD/IRON

JOB NO. JCD0084

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING - ROUTE 49 (CRAWFORD COUNTY)

LOG MILE	LOG MILE	LENGTH (FT)	WATERBORNE PAINT, TYPE P BEADS 4" INT. YELLOW L.F.	4" SOLID YELLOW L.F.	4" SOLID WHITE L.F.	REMARKS
0.003	0.016	68.64		137.3	137.3	BEGIN / LT ENTRANCE
0.016	0.041	132.00			264.0	LT ENTRANCE
0.003	0.017	73.92		147.8	147.8	BEGIN / RT ENTRANCE
0.017	0.041	126.72		253.4	253.4	RT ENTRANCE
0.041	0.161	633.60		1267.2	1267.2	NO PASS
0.161	0.320	839.52	209.9	839.5	1679.0	NO PASS NB
0.320	0.360	211.20	52.8		422.4	
0.360	0.501	744.48	186.1	744.5	1489.0	NO PASS SB
0.501	1.241	3907.20		7814.4	7814.4	NO PASS
1.241	1.382	744.48	186.1	744.5	1488.96	NO PASS NB
1.382	1.541	839.52	209.9	839.5	1679.04	NO PASS SB
1.541	2.541	5280.00		10560.0	10560	NO PASS
2.541	2.681	739.20	184.8	739.2	1478.4	NO PASS NB
2.681	2.801	633.60	158.4	633.6	1267.2	NO PASS SB
2.801	3.140	1789.92		3579.8	3579.84	NO PASS
3.140	3.260	633.60	158.4	633.6	1267.2	NO PASS NB
3.260	3.419	839.52	209.9	839.5	1679.0	NO PASS SB
3.419	4.200	4123.68		8247.4	8247.4	NO PASS
4.200	4.400	1056.00	264.0	1056.0	2112.0	NO PASS NB
4.400	4.541	744.48	186.1	744.5	1488.96	NO PASS SB
4.541	4.680	733.92		1467.8	1467.8	NO PASS
4.680	4.860	950.40	237.6	950.4	1900.8	NO PASS SB
4.860	4.999	733.92	183.5	733.9	1467.8	NO PASS NB
4.999	5.039	211.20	52.8		422.4	
5.039	5.199	844.80	211.2	844.8	1689.6	NO PASS SB
5.199	5.226	142.56		285.1	285.1	NO PASS
5.226	5.246	105.60			211.2	RTE. V
5.246	5.625	2001.12		4002.2	4002.2	NO PASS
5.625	5.765	739.20	184.8	739.2	1478.4	NO PASS SB
5.765	8.001	11806.08		23612.2	23612.2	NO PASS
8.001	8.121	633.60	158.4	633.6	1267.2	NO PASS NB
8.121	8.181	316.80		633.6	633.6	NO PASS
8.181	8.301	633.60	158.4	633.6	1267.2	NO PASS SB
8.301	10.618	12233.76		24467.5	24467.5	NO PASS
10.618	10.738	633.60	158.4	633.6	1267.2	NO PASS NB
10.738	10.837	522.72	130.7		1045.4	
10.837	10.998	850.08	212.5	850.1	1700.2	NO PASS SB
10.998	11.979	5179.68		10359.4	10359.4	NO PASS
11.979	12.160	955.68	238.9	955.7	1911.4	NO PASS NB
12.160	12.318	834.24	208.6	834.2	1668.5	NO PASS SB
12.318	13.598	6758.40		13516.8	13516.8	NO PASS
13.598	13.699	533.28	133.3	533.3	1066.6	NO PASS NB
13.699	13.778	417.12		834.2	834.2	NO PASS
13.778	13.818	211.20	52.8	211.2	422.4	NO PASS SB
13.818	13.858	211.20	52.8		422.4	
13.858	13.919	322.08	80.5	322.1	644.2	NO PASS NB
13.919	13.958	205.92		411.8	411.8	NO PASS
13.958	14.059	533.28	133.3	533.3	1066.6	NO PASS SB
14.059	14.499	2323.20		4646.4	4646.4	NO PASS
14.499	14.678	945.12	236.3	945.1	1890.2	NO PASS NB
14.678	14.879	1061.28	265.3		2122.6	
14.879	15.000	638.88	159.7	638.9	1277.8	NO PASS SB
15.000	15.079	417.12	104.3	417.1	834.2	NO PASS NB
15.079	15.119	211.20		422.4	422.4	NO PASS
15.119	15.199	422.40	105.6	422.4	844.8	NO PASS SB
15.199	15.861	3495.36		6990.7	6990.7	NO PASS
15.861	16.062	1061.28	265.3	1061.3	2122.6	NO PASS NB
16.062	16.142	422.40	105.6	422.4	844.8	NO PASS SB
16.142	16.242	528.00	132.0	528.0	1056.0	NO PASS NB
16.242	16.341	522.72	130.7	522.7	1045.4	NO PASS SB
16.341	16.402	322.08	80.5		644.2	
16.402	16.482	422.40	105.6	422.4	844.8	NO PASS NB
16.482	16.601	628.32	157.1	628.3	1256.6	NO PASS SB
16.601	17.862	6658.08		13316.2	13316.2	NO PASS
17.862	18.023	850.08	212.5	850.1	1700.2	NO PASS NB
18.023	18.142	628.32	157.1	628.3	1256.6	NO PASS SB
18.142	20.059	10121.76		20243.5	20243.5	NO PASS / END PROJECT
		SUB-TOTAL	6812.5	181927.5	212192.6	
		TOTAL	188740		212193	

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE BEFORE RESURFACING.

SUMMARY OF QUANTITIES
SHEET 2 OF 2

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/18/2024

ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
CRAWFORD/IRON

JOB NO.
JCD0084

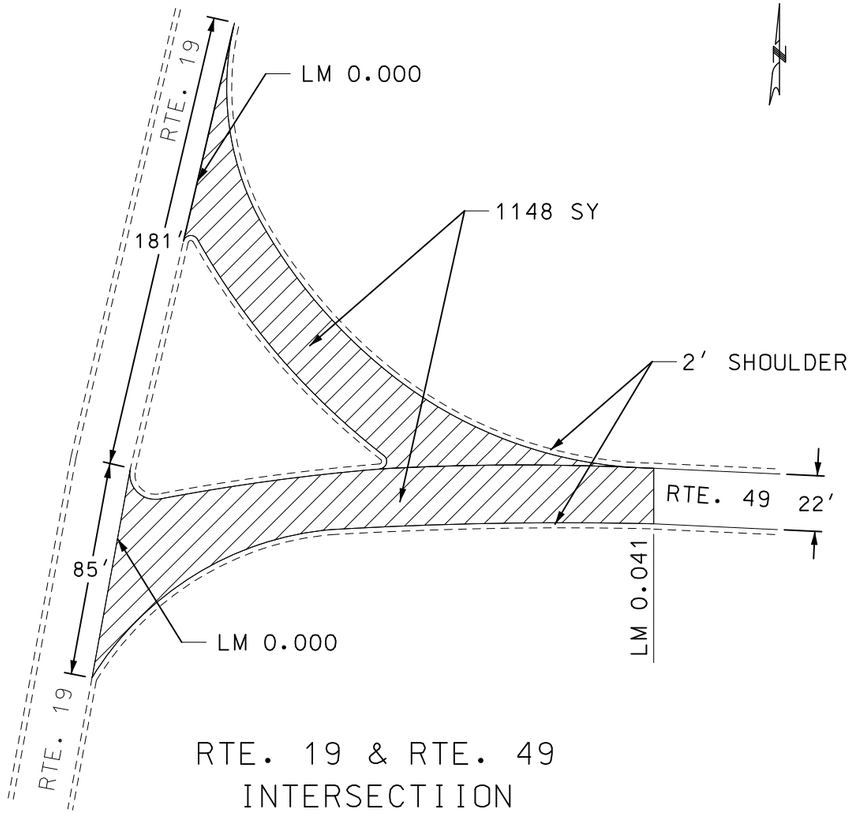
CONTRACT ID.

PROJECT NO.

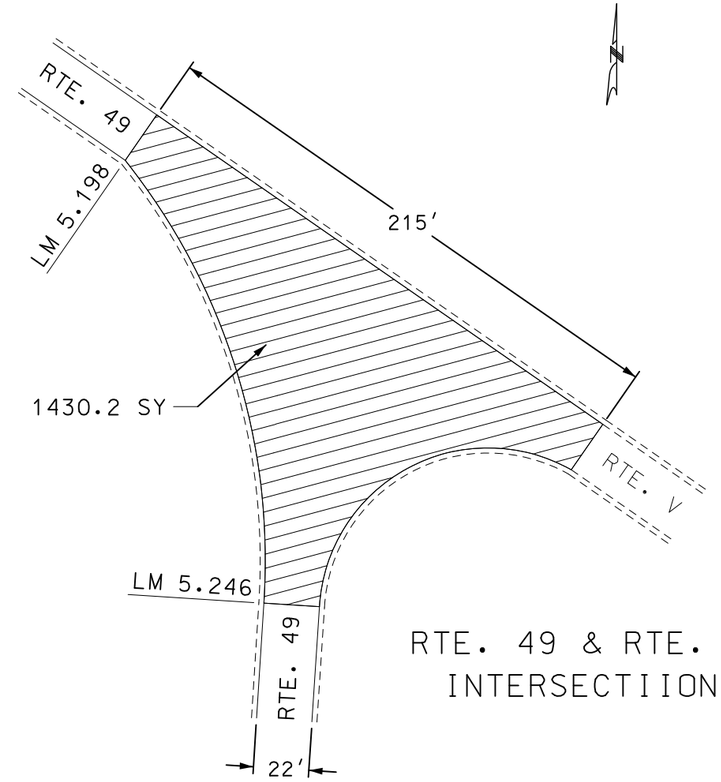
BRIDGE NO.

DESCRIPTION	DATE

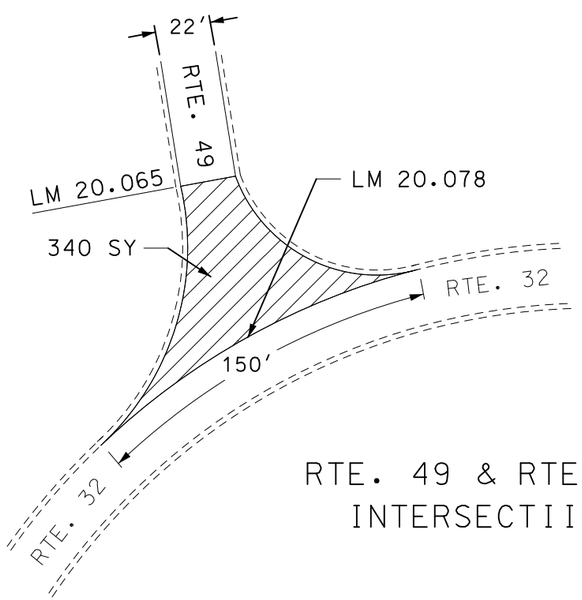
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



RTE. 19 & RTE. 49
INTERSECTIION



RTE. 49 & RTE. V
INTERSECTIION



RTE. 49 & RTE. 32
INTERSECTIION

NOT TO SCALE

SPECIAL SHEET
SHEET 1 OF 2

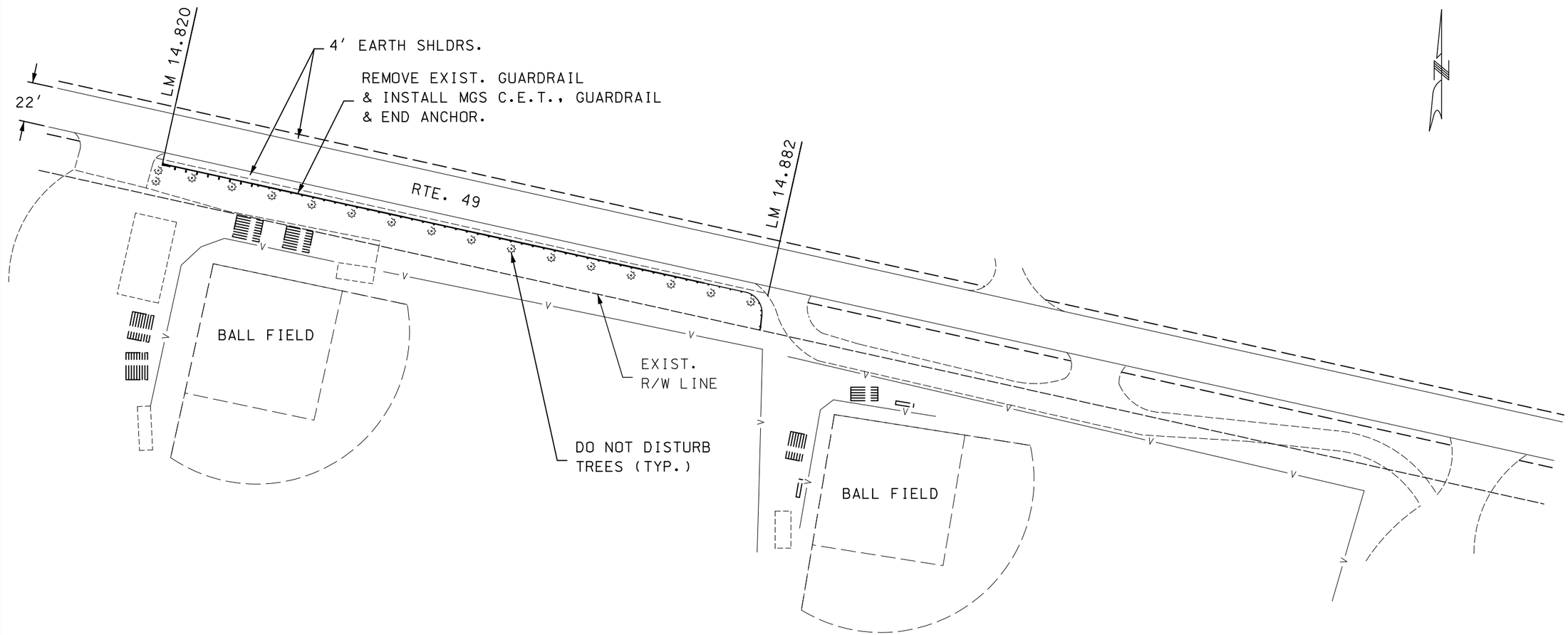
STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/12/2024
ROUTE	49
STATE	MO
DISTRICT	CD
SHEET NO.	4
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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



ROUTE 49 (BALL PARK)

LM 14.820 TO LM 14.882

NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 2

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

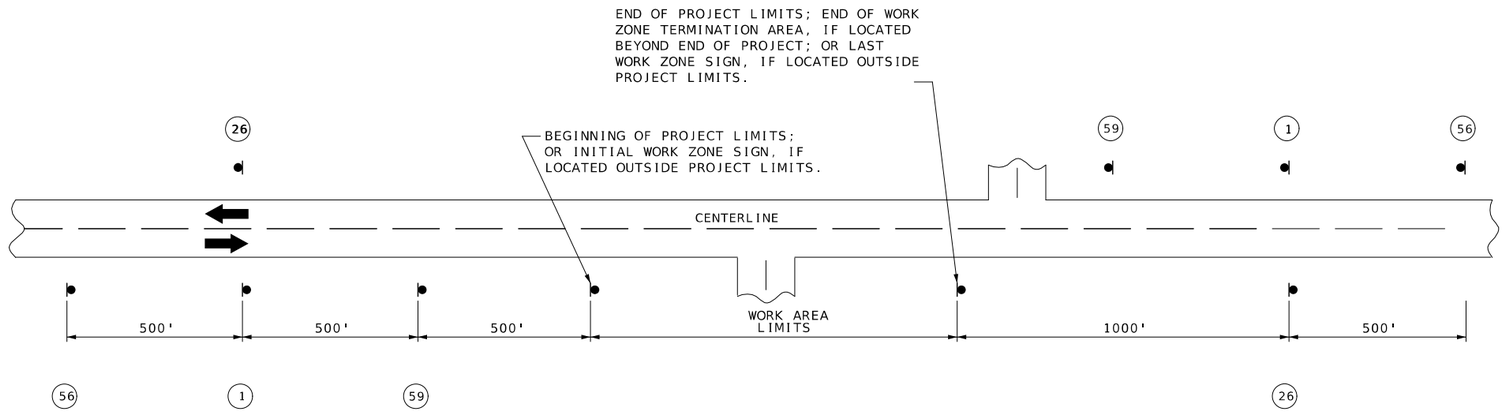
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/12/2024	
ROUTE 49	STATE MO
DISTRICT CD	SHEET NO. 5
COUNTY CRAWFORD/IRON	
JOB NO. JCD0084	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

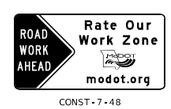


NOTES:

SIGN (1) AND (26) ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

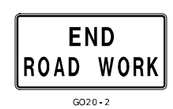
PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



CONST-7-48

(56)



G020-2

(26)

G020-1

(1)

CONST-8

(59)

TRAFFIC CONTROL
SHEET 1 OF 5

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/12/2024	
ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
CD	6
COUNTY	
CRAWFORD/IRON	
JOB NO.	
JCD0084	
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)

WO20-1

2

GO20-4

53

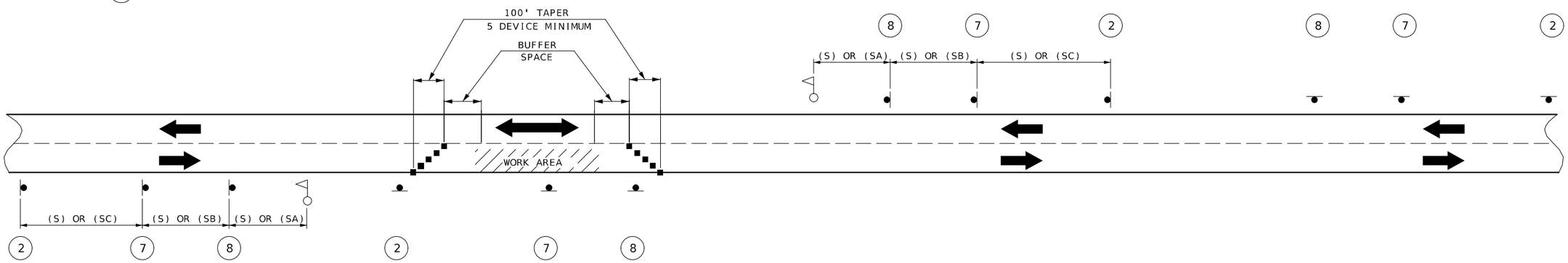
SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

WO20-4

7

WO20-7a

8



SET 1	SET 2	SET 3	SET 4
ACTIVE	INACTIVE	ACTIVE	INACTIVE

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

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.

SPEED	SIGN SPACING (FT.) (1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

TRAFFIC CONTROL
SHEET 2 OF 5

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/12/2024

ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
CRAWFORD/IRON

JOB NO.
JCD0084

CONTRACT ID.

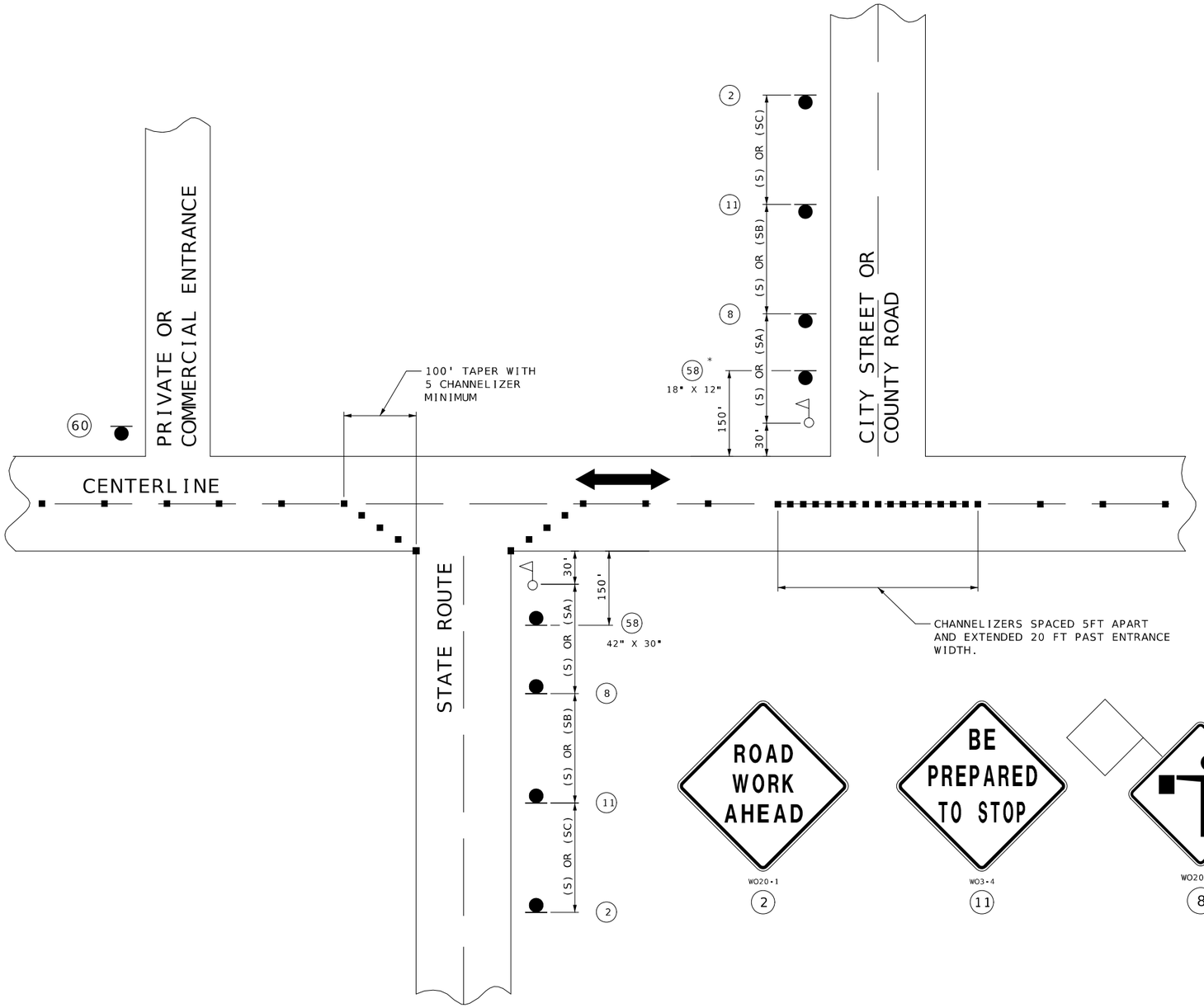
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



SPEED	SIGN SPACING (FT.)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

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

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

■ - CHANNELIZERS (AS SPECIFIED)

- FLAGGER

WO20-1 (2) WO3-4 (11) WO20-7a (8)

GO20-4a (58)

SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER.

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

24" X 18" (60)

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

SIDE ROADS ENTERING WORK ZONES

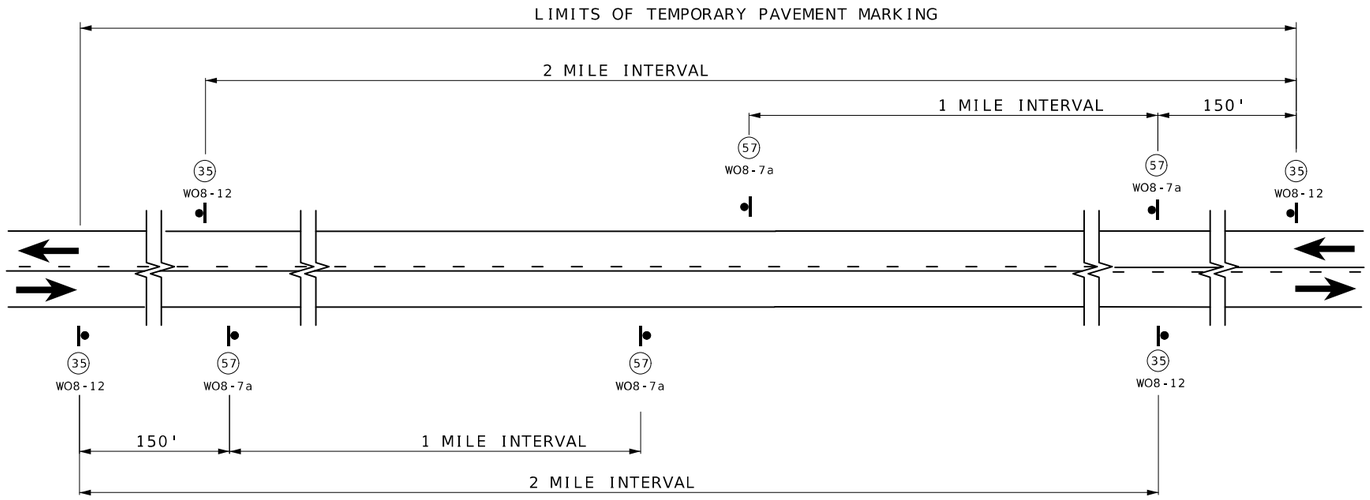
TRAFFIC CONTROL
SHEET 3 OF 5

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

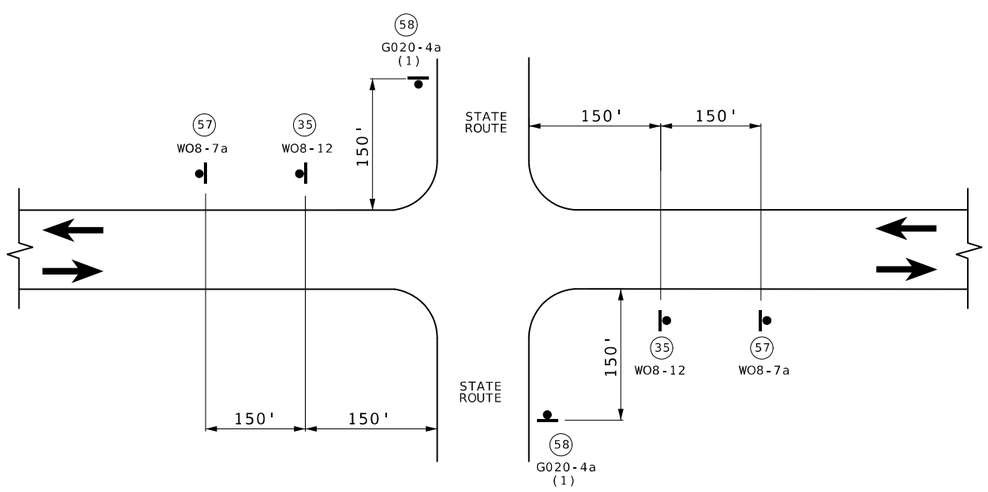
DATE PREPARED	
3/12/2024	
ROUTE 49	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY CRAWFORD/IRON	
JOB NO. JCD0084	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

G020-4a
58

WO8-12
35

WO8-7a
57

NOTES:

SIGN 35 AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35, THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 5

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

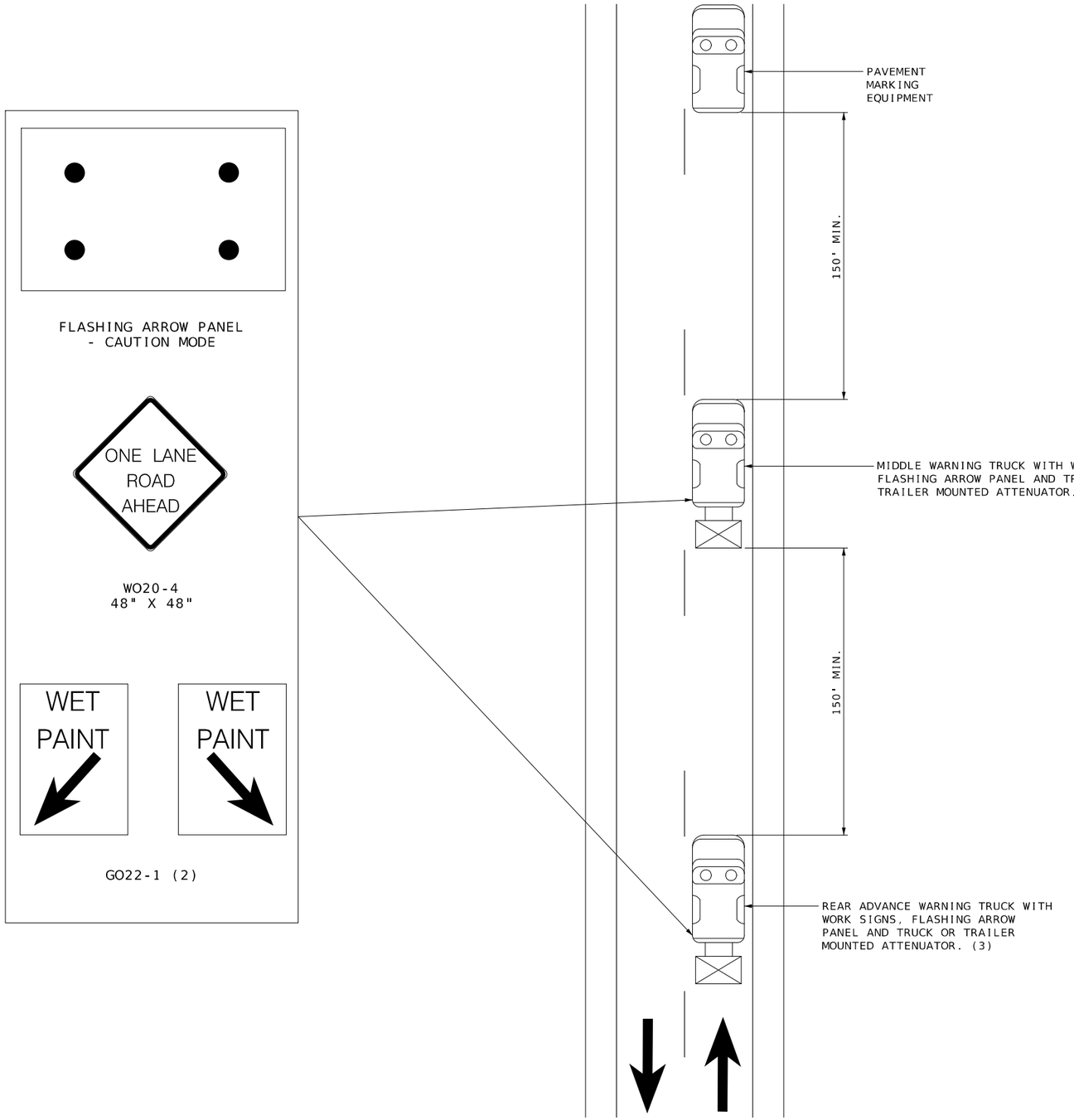
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/12/2024
ROUTE	49
STATE	MO
DISTRICT	CD
SHEET NO.	9
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
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)



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

PROTECTIVE TRUCK 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 STROPE LIGHTS.

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

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

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

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

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

TRAFFIC CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
JAMES V. BEATTIE
NUMBER
PE-2018021150
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/12/2024
ROUTE	49
STATE	MO
DISTRICT	CD
SHEET NO.	10
COUNTY	CRAWFORD/IRON
JOB NO.	JCD0084
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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