

A.A.D.T. - 2022 = 33,951
A.A.D.T. - 2042 = 40,920
D.H.V. = 8.29%
T = 41.7%
V = 70 M.P.H.
D = 50% / 50%

NO NEW R/W REQUIRED

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

J7I3008 PROJECT LIMITS

I-44 PAVEMENT & WELCOME CENTER RAMP RESURFACING

BEGIN LOG
0.000 EB
293.094 WB

END LOG
9.256 EB
283.932 WB

EXCEPT:
EB BRIDGE #A8047
WB BRIDGE #A8047

EXCEPT:
EB BRIDGE #L7098
WB BRIDGE #L7099

EXCEPT:
EB BRIDGE #L0858
WB BRIDGE #L0857 APPROACHES

EXCEPT:
EB BRIDGE #L0855 APPROACHES
WB BRIDGE #L0854 APPROACHES

EXCEPT:
EB PREPASS
LOOPS & SENSOR

WELCOME CENTER

OK MO

166
43
49
86
FF
NN
C

01
02
03
04
05
06
11
12
19
22
23
24
25
26
27
33
34

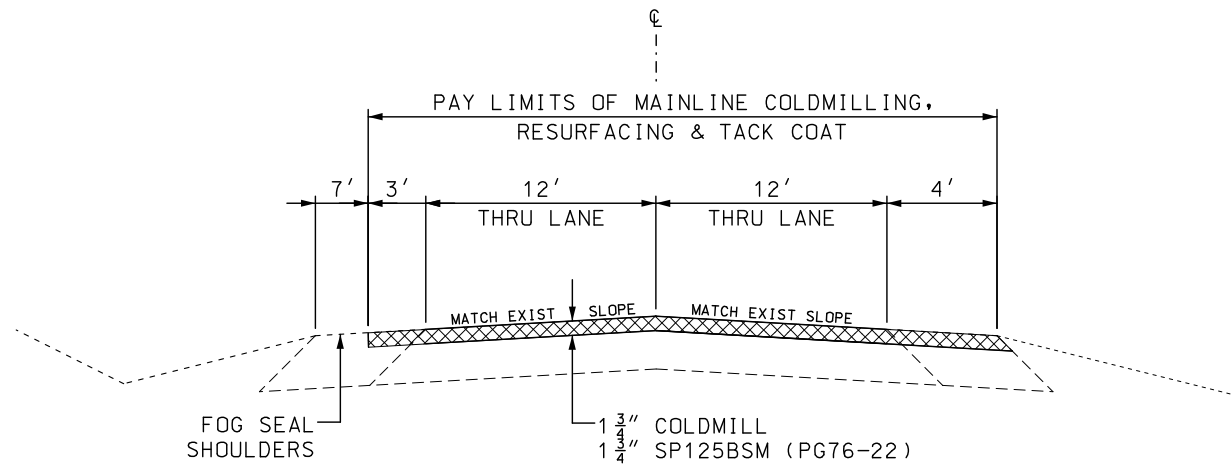
27N 34W
26N 34W
26N 33W
27N 33W
26N 34W
26N 33W
27N 33W
27N 32W

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.

TOTAL CORRECTIONS	4304	FEET
NET LENGTH OF PROJECT	93287	FEET
STATE LENGTH	17.668	MILES

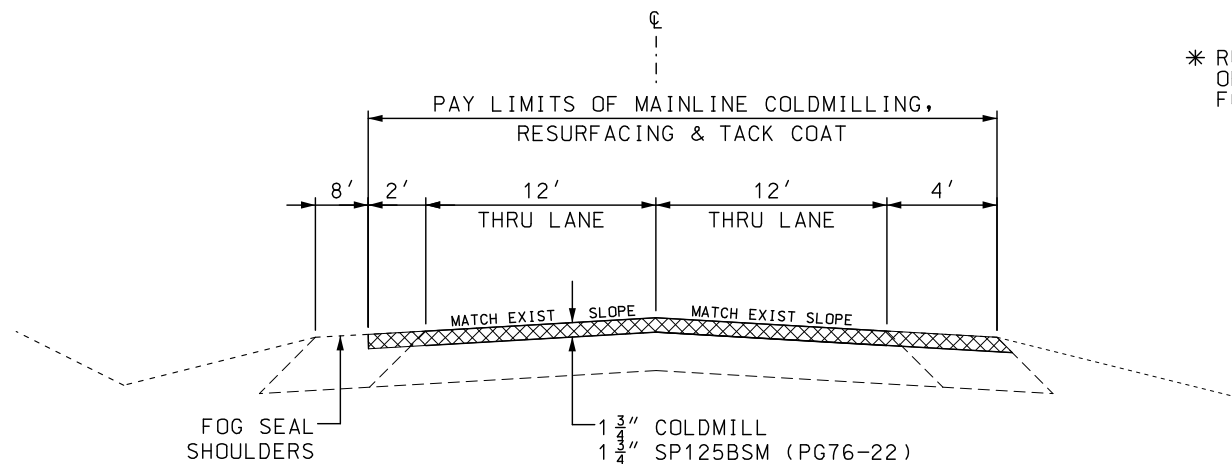


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



WESTBOUND I-44*

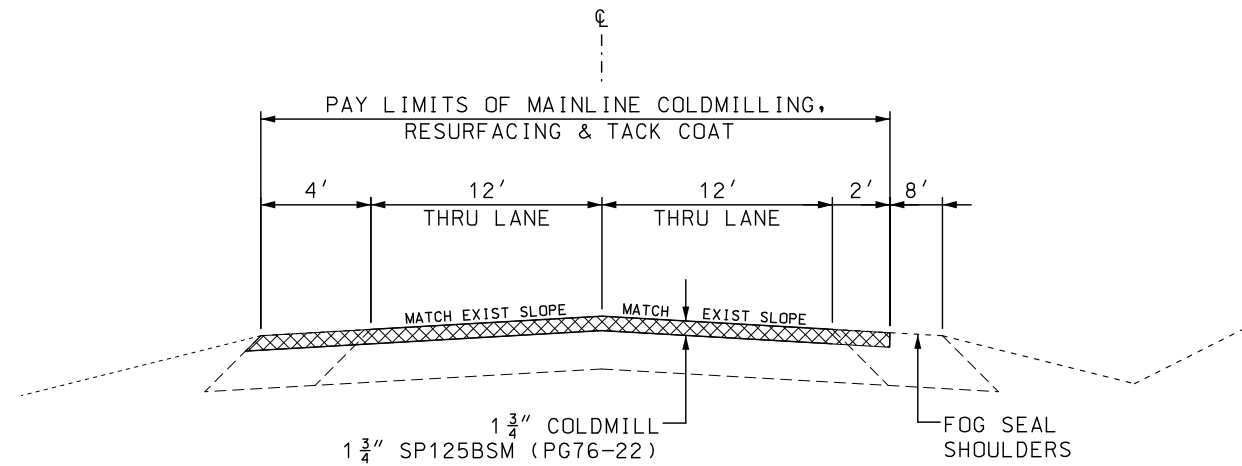
LOG MILE 283.932 TO LOG MILE 287.078



WESTBOUND I-44

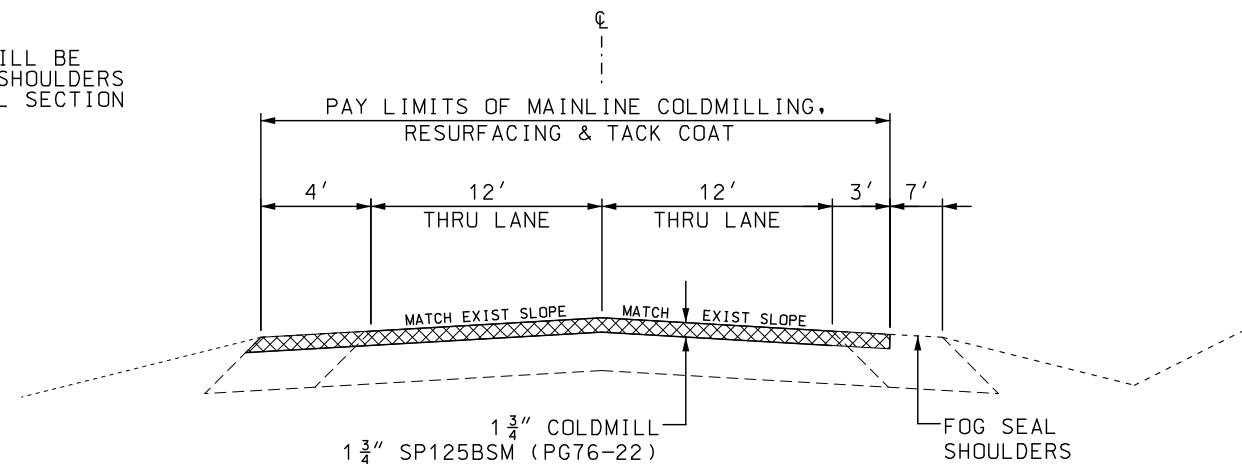
LOG MILE 287.203 TO LOG MILE 293.094

* RUMBLE STRIPS WILL BE
OFFSET 1' ONTO SHOULDERS
FOR THIS TYPICAL SECTION



EASTBOUND I-44

LOG MILE 0.000 TO LOG MILE 6.084



EASTBOUND I-44*

LOG MILE 6.084 TO LOG MILE 9.256

EXISTING PAVEMENT STRUCTURE

2014	1974
-MAINLINE	-MAINLINE
30' WIDE 1.75" COLDMILL	12' WIDE 0.25" TYPE C ASPHALT OVER
1.75" SP125BSMR PG76-22 FILL	12' WIDE 2.75" TYPE B ASPHALT OVER
-OUTSIDE SHOULDER	12' WIDE 0.5" TYPE C ASPHALT
8' WIDE 1.75" BP-1 PG 64-22	-INSIDE SHOULDERS
	4' WIDE 2" TYPE B ASPHALT OVER
2006	4' WIDE 5" BITUMINOUS BASE
-MAINLINE & INSIDE SHOULDER	-OUTSIDE SHOULDER
25' WIDTH 1" HOT IN-PLACE RECYCLE	10' WIDE 2" TYPE B ASPHALT OVER
1.75" SP125B PG76-22 OVERLAY	10' WIDE 5" BITUMINOUS BASE
-OUTSIDE SHOULDER	
2' OF 1.75" SP125B PG 76-22	1957
8' OF 1.75" BP1 PG64-22	-MAINLINE
2002	12' WIDE 10" PCCP
-MAINLINE	12' WIDE 4" AGGREGATE BASE
25' WIDTH TYPE A MICROSURFACING	-INSIDE & OUTSIDE SHOULDERS
	COMPACTED EARTH

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
SP125BSM (PG76-22)	1.995 TONS/CY	6.3
TACK COAT		
MILLING		0.10 GAL/SY
FOG SEAL		
SHOULDER		0.10 GAL/SY
APPLY SHOULDER FOG SEAL: 0.2 GAL/SY AT 50% DILLUTION		

3" MILL & FILL THRU DRIVEWYZE SENSORS

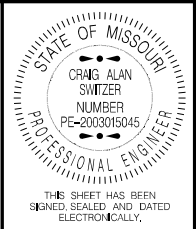
EB LM:	1.269 - 1.283
	2.396 - 2.414
WB LM:	288.226 - 288.242
	290.744 - 290.765

NOTE: NO ADDITIONAL PAYMENT WILL BE MADE FOR GREATER COLDMILLING DEPTH (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

SURFACE PLACEMENT - ONE PASS PER LANE

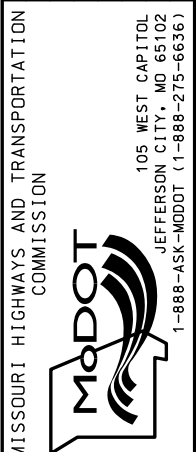
NO S.E. CORRECTION

TYPICAL SECTIONS
SHEET 1 OF 2



DATE PREPARED	10/5/2021
ROUTE	I-44
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	NEWTON
JOB NO.	J713008
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

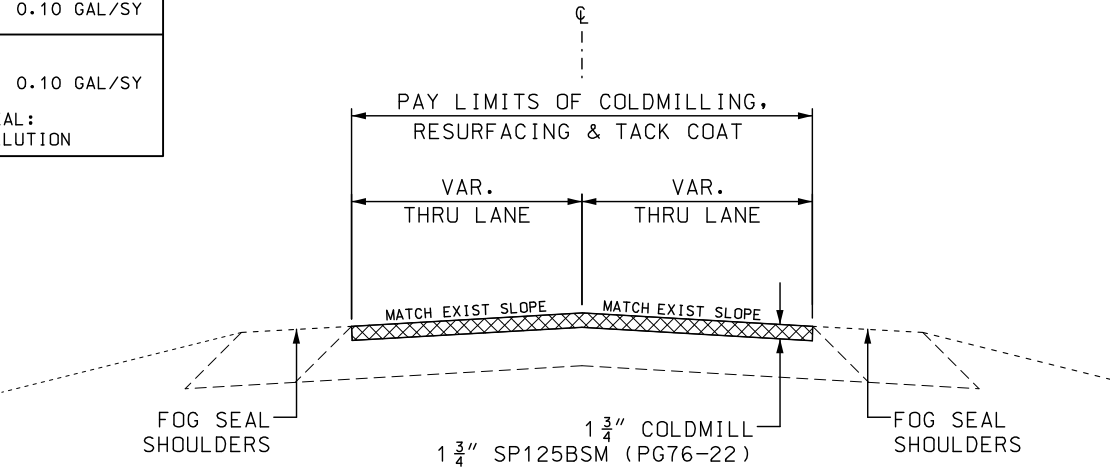


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTE: NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

SURFACE PLACEMENT - ONE PASS PER LANE
NO S.E. CORRECTION

ASPHALT FACTORS	
COMBINED FACTOR	% AC
SP125BSM (PG76-22) 1.995 TONS/CY	6.3
TACK COAT	
MILLING	0.10 GAL/SY
FOG SEAL	
SHOULDER	0.10 GAL/SY
APPLY SHOULDER FOG SEAL: 0.2 GAL/SY AT 50% DILLUTION	

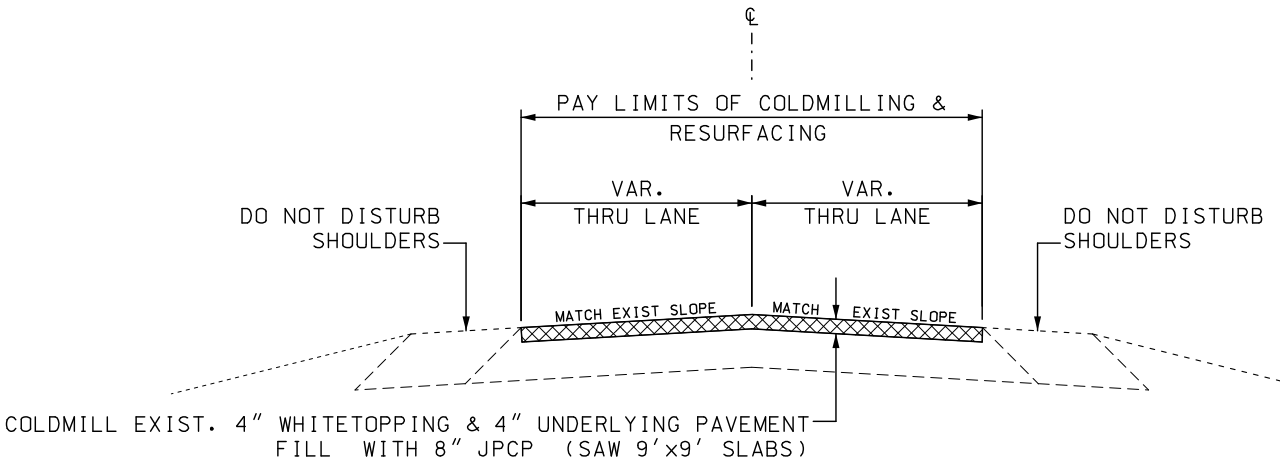


I-44 RAMP TYPICAL SECTION (EB LOCATIONS)

- ROUTE 166 ON & OFF RAMPS
- WEIGH STATION OFF & ON RAMPS
- ROUTE 43 OFF & ON RAMPS
- ROUTE 86 OFF & ON RAMPS
- RANGE LINE ROAD OFF & ON RAMPS

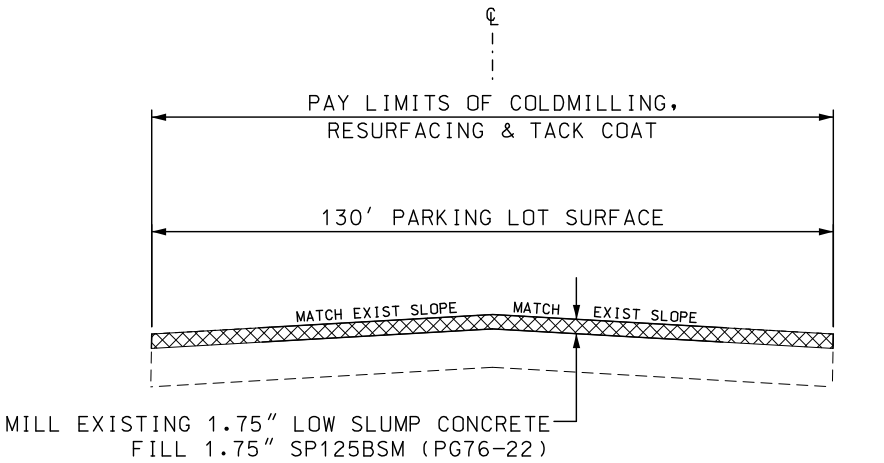
I-44 RAMP TYPICAL SECTION (WB LOCATIONS)

- RANGE LINE ROAD OFF & ON RAMPS
- ROUTE 86 OFF & ON RAMPS
- ROUTE 43 OFF & ON RAMPS
- WEIGH STATION OFF & ON RAMPS
- TRUCK PARKING OFF & ON RAMPS
- ROUTE 166 OFF & ON RAMPS

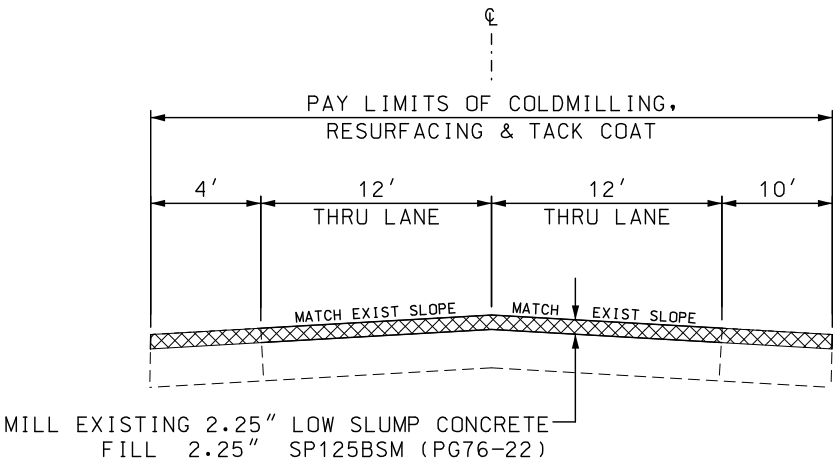


I-44 RAMP TYPICAL SECTION (EB LOCATION)

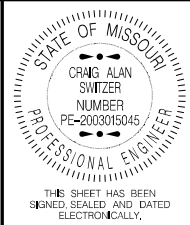
WELCOME CENTER CONCRETE OFF & ON RAMPS



WB TRUCK PARKING TYPICAL SECTION
WB LOG MILE 291.222 TO LOG MILE 291.370



I-44 BRIDGE TYPICAL SECTION
EB LOG MILE 0.332 TO LOG MILE 0.360
WB LOG MILE 286.512 TO LOG MILE 286.571
WB LOG MILE 292.807 TO LOG MILE 292.834



DATE PREPARED 10/5/2021	
ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY NEWTON	
JOB NO. J713008	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

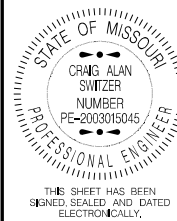
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EASTBOUND PAVEMENT RESURFACING											
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	MAINLINE WIDTH (FT)	INSIDE SHOULDER WIDTH (FT)	OUTSIDE SHOULDER WIDTH (FT)	COLDMILLING < 3 IN THICK (SY)	COLDMILLING CONCRETE (SY)	TACK 0.1 GAL/SY (GAL)	1.75"SP125BSM (PG76-22) 1.995 TONS/CY (TONS)	SHOULDER FOG SEAL 0.1 GAL/SY ** (GAL)	REMARKS
0.000	0.321	1695	26	4	8	5650.0		565.0	547.93	150.7	MAINLINE & SHOULDER RESURFACE
0.321	0.332	58									EXCEPT OUT BRIDGE L0855 APPROACH SLAB
0.332	0.360	148	26	4	7		493.3	49.3	61.5*	11.5	2.25" MILL & FILL BRIDGE L0855
0.360	0.371	58									EXCEPT OUT BRIDGE L0855 APPROACH SLAB
0.371	1.124	3976	26	4	8	13253.3		1325.3	1285.30	353.4	MAINLINE & SHOULDER RESURFACE
1.124	1.134	53									EXCEPT OUT PREPASS SENSORS & LOOPS
1.134	5.964	25502	26	4	8	85006.7		8500.7	8243.88	2266.8	MAINLINE & SHOULDER RESURFACE
5.964	6.084	634									EXCEPT OUT BRIDGE L0798
6.084	6.564	2534	27	4	7	8728.2		872.8	846.46	197.1	MAINLINE & SHOULDER RESURFACE
6.564	6.646	433									EXCEPT OUT BRIDGE L0858
6.646	8.716	10930	27	4	7	37647.8		3764.8	3651.05	850.1	MAINLINE & SHOULDER RESURFACE
8.716	8.923	1093									EXCEPT OUT BRIDGE A8047
8.923	9.256	1758	27	4	7	6055.3		605.5	587.24	136.7	MAINLINE & SHOULDER RESURFACE
EASTBOUND RAMP QUANTITIES											
0.107	0.158	269	0-12			179.3		17.9	17.39		I-44 TO ROUTE 166 DECELERATION LANE
0.158	0.297	734	22			1794.2		179.4	174.00		I-44 TO ROUTE 166 RAMP
0.297	0.344	248	30		8	826.7		82.7	80.17	22.0	I-44 TO ROUTE 166 RAMP TURN LANES
0.391	0.669	1468	18		8	2936.0		293.6	284.73	130.5	ROUTE 166 TO I-44 RAMP
0.669	0.748	417	12			556.0		55.6	53.92		ROUTE 166 TO I-44 ACCELERATION LANE
0.748	0.798	264	12-0			176.0		17.6	17.07		ROUTE 166 TO I-44 ACCELERATION LANE TAPER
1.634	1.689	290	0-12			193.3		19.3	18.75		I-44 TO WELCOME CENTER DECELERATION LANE TAPER
1.689	1.729	211	12			281.3		28.1	27.28		I-44 TO WELCOME CENTER DECELERATION LANE
2.158	2.270	591	12			788.0		78.8	76.42		WELCOME CENTER TO I-44 ACCELERATION LANE
2.270	2.320	264	12-0			176.0		17.6	17.07		WELCOME CENTER TO I-44 ACCELERATION LANE TAPER
2.703	2.755	275	0-12			183.3		18.3	17.78		I-44 TO WEIGH STATION DECELERATION LANE TAPER
2.755	2.835	422	12			562.7		56.3	54.57		I-44 TO WEIGH STATION DECELERATION LANE
2.835	2.893	306	18		8	612.0		61.2	59.35	27.2	I-44 TO WEIGH STATION RAMP
3.037	3.082	238	18		8	476.0		47.6	46.16	21.2	WEIGH STATION TO I-44 RAMP
3.082	3.168	454	12			605.3		60.5	58.70		WEIGH STATION TO I-44 ACCELERATION LANE
3.168	3.222	285	12-0			190.0		19.0	18.43		WEIGH STATION TO I-44 ACCELERATION LANE TAPER
3.606	3.643	195	0-12			130.0		13.0	12.61		I-44 TO ROUTE 43 DECELERATION LANE TAPER
3.643	3.732	470	12			626.7		62.7	60.78		I-44 TO ROUTE 43 DECELERATION LANE
3.732	3.883	797	18		8	1594.0		159.4	154.58	70.8	I-44 TO ROUTE 43 RAMP
3.884	4.106	1172	18		8	2344.0		234.4	227.32	104.2	ROUTE 43 TO I-44 RAMP
4.106	4.191	449	12			598.7		59.9	58.06		ROUTE 43 TO I-44 ACCELERATION LANE
4.191	4.225	180	12-0			120.0		12.0	11.64		ROUTE 43 TO I-44 RAMP ACCELERATION LANE TAPER
6.241	6.281	211	0-12			140.7		14.1	13.64		I-44 TO ROUTE 86 DECELERATION LANE TAPER
6.281	6.386	554	12			738.7		73.9	71.64		I-44 TO ROUTE 86 DECELERATION LANE
6.386	6.591	1082	24		8	2885.3		288.5	279.81	96.2	I-44 TO ROUTE 86 RAMP
6.620	6.784	866	24		8	2309.3		230.9	223.95	77.0	ROUTE 86 TO I-44 RAMP
6.784	6.875	480	12			640.0		64.0	62.07		ROUTE 86 TO I-44 ACCELERATION LANE
6.875	6.974	523	12-0			348.7		34.9	33.82		ROUTE 86 TO I-44 ACCELERATION LANE TAPER
8.470	8.505	185	12-0			123.3		12.3	11.96		I-44 TO RANGE LINE ROAD DECELERATION LANE TAPER
8.505	8.579	391	12			521.3		52.1	50.56		I-44 TO RANGE LINE ROAD DECELERATION LANE
8.579	8.716	723	18		8	1446.0		144.6	140.23	64.3	I-44 TO RANGE LINE ROAD RAMP
8.910	9.026	612	18		8	1224.0		122.4	118.70	54.4	RANGE LINE ROAD TO I-44 RAMP
9.026	9.174	781	12			1041.3		104.1	100.98		RANGE LINE ROAD TO I-44 ACCELERATION LANE
9.174	9.211	195	12-0			130.0		13.0	12.61		RANGE LINE ROAD TO I-44 ACCELERATION LANE TAPER
0.000	9.256	48872							231.40		25 TONS/MILE FOR IRREGULARITIES
					SUBTOTAL	183839.4	493.3	18433.1	18121.51	4634.1	
SEE WB PAVING FOR PROJECT PAVING TOTALS											
* 2.25" MILL & FILL WITH MAINLINE PAVEMENT TYPE											
** APPLY SHOULDER FOG SEAL 0.2 GAL/SY AT 50% DILLUTION											

SUMMARY OF QUANTITIES
SHEET 1 OF 5

WESTBOUND PAVEMENT RESURFACING											
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	MAINLINE WIDTH (FT)	INSIDE SHOUDLER WIDTH (FT)	OUTSIDE SHOULDER WIDTH (FT)	COLDMILL < 3 IN THICK (SY)	COLDMILL CONCRETE (SY)	TACK 0.1 GAL/SY (GAL)	1.75"SP125BSM (PG76-22) 1.995 TONS/CY (TONS)	SHOULDER FOG SEAL 0.1 GAL/SY** (GAL)	REMARKS
283.932	284.227	1558	27	4	7	5366.4		536.6	520.40	121.2	MAINLINE & SHOULDER RESURFACE
284.227	284.435	1098									EXCEPT OUT BRIDGE A8047
284.435	286.501	10908	27	4	7	37572.0		3757.2	3643.70	848.4	MAINLINE & SHOULDER RESURFACE
286.501	286.512	58									EXCEPT OUT BRIDGE L0857 APPROACH SLAB
286.512	286.571	312	27	5	8		1109.3	110.9	138.3*	27.7	2.25" MILL & FILL BRIDGE L0857
286.571	286.582	58									EXCEPT OUT BRIDGE L0857 APPROACH SLAB
286.582	287.078	2619	27	4	7	9021.0		902.1	874.80	203.7	MAINLINE & SHOULDER RESURFACE
287.078	287.203	660									EXCEPT OUT BRIDGE L7099
287.203	292.796	29531	26	4	8	98436.7		9843.7	9546.30	2625.0	MAINLINE & SHOULDER RESURFACE
292.796	292.807	58									EXCEPT OUT BRIDGE L0854 APPROACH SLAB
292.807	292.834	143	26	5	8		492.6	49.3	61.4*	12.7	2.25" MILL & FILL BRIDGE L0854
292.834	292.845	58									EXCEPT OUT BRIDGE L0854 APPROACH SLAB
292.845	293.094	1315	26	4	8	4383.3		438.3	425.10	116.9	MAINLINE & SHOULDER RESURFACE
WESTBOUND RAMP QUANTITIES											
283.932	283.977	238	0-12			158.7		15.9	15.39		I-44 TO RANGE LINE ROAD DECELERATION LANE TAPER
283.977	284.070	491	12			654.7		65.5	63.49		I-44 TO RANGE LINE ROAD DECELERATION LANE
284.070	284.262	1014	18		8	2028.0		202.8	196.67	90.1	I-44 TO RANGE LINE ROAD RAMP
284.421	284.547	665	18		8	1330.0		133.0	128.98	59.1	RANGE LINE ROAD TO I-44 RAMP
284.547	284.698	797	12			1062.7		106.3	103.06		RANGE LINE ROAD TO I-44 ACCELERATION LANE
284.698	284.768	370	12-0			246.7		24.7	23.92		RANGE LINE ROAD TO I-44 ACCELERATION LANE TAPER
286.229	286.264	185	0-12			123.3		12.3	11.96		I-44 TO ROUTE 86 RAMP DECELERATION LANE TAPER
286.264	286.347	438	12			584.0		58.4	56.64		I-44 TO ROUTE 86 DECELERATION LANE
286.347	286.447	528	12-70		8	2405.3		240.5	233.26	46.9	I-44 TO ROUTE 86 RAMP
286.264	286.347	438	12		8	584.0		58.4	56.64	38.9	I-44 TO ROUTE 86 RAMP NB
286.447	286.526	417	25		8	1158.3		115.8	112.33	37.1	I-44 TO ROUTE 86 SB TURN LANE SECTION
286.564	286.660	507	25		8	1408.3		140.8	136.58	45.1	ROUTE 86 TO I-44 RAMP
286.660	286.776	612	12			816.0		81.6	79.14		ROUTE 86 TO I-44 ACCELERATION LANE
286.776	286.862	454	12-0			302.7		30.3	29.36		ROUTE 86 TO I-44 ACCELERATION LANE TAPER
288.764	288.807	227	0-12			151.3		15.1	14.67		I-44 TO ROUTE 43 RAMP DECELERATION LANE TAPER
288.807	288.880	385	12			513.3		51.3	49.78		I-44 TO ROUTE 43 DECELERATION LANE
288.880	289.050	898	12-70		8	4090.9		409.1	396.73	79.8	I-44 TO ROUTE 43 RAMP
289.084	289.280	1035	18		8	4715.0		471.5	457.26	92.0	ROUTE 43 TO I-44 RAMP
289.280	289.397	618	12			824.0		82.4	79.91		ROUTE 43 TO I-44 ACCELERATION LANE
289.397	289.447	264	0-12			176.0		17.6	17.07		ROUTE 43 TO I-44 RAMP ACCELERATION LANE TAPER
289.927	289.960	174	0-12			116.0		11.6	11.25		I-44 TO WEIGH STATION DECELERATION LANE TAPER
289.960	290.025	343	12			457.3		45.7	44.35		I-44 TO WEIGH STATION DECELERATION LANE
290.025	290.077	275	18		8	550.0		55.0	53.34	24.4	I-44 TO WEIGH STATION RAMP
290.247	290.299	275	18		8	550.0		55.0	53.34	24.4	WEIGH STATION TO I-44 RAMP
290.299	290.375	401	12			534.7		53.5	51.85		WEIGH STATION TO I-44 ACCELERATION LANE
290.375	290.442	354	12-0			236.0		23.6	22.89		WEIGH STATION TO I-44 ACCELERATION LANE TAPER
291.068	291.139	375	0-12			250.0		25.0	24.24		I-44 TO TRUCK PARKING DECELERATION LANE TAPER
291.139	291.191	275	15			458.3		45.8	44.45		I-44 TO TRUCK PARKING DECELERATION LANE
291.919	291.376	VAR	VAR			10462.0		1046.2	1014.60		TRUCK PARKING AREA
291.376	291.600	1183	15		8	1971.7		197.2	191.21	105.2	TRUCK PARKING TO I-44 ACCELERATION LANE
291.600	291.652	275	0-12			183.3		18.3	17.78		TRUCK PARKING TO I-44 ACCELERATION LANE TAPER
292.307	292.365	306	0-12			204.0		20.4	19.78		I-44 TO ROUTE 166 DECELERATION LANE TAPER
292.365	292.662	1568	12			2090.7		209.1	202.75		I-44 TO ROUTE 166 DECELERATION LANE
292.662	292.810	781	12-36		8	2082.7		208.3	201.98	69.4	I-44 TO ROUTE 166 RAMP
292.848	292.935	459	17		8	867.0		86.7	84.08	40.8	ROUTE 166 TO I-44 RAMP
292.935	293.008	385	12			513.3		51.3	49.78		ROUTE 166 TO I-44 DECELERATION LANE
293.008	293.054	243	0-12			648.0		64.8	62.84		ROUTE 166 TO I-44 DECELERATION LANE TAPER
283.932	293.094	48375							229.05		25 TONS/MILE FOR IRREGULARITIES
*2.25" MILL & FILL WITH MAINLINE PAVEMENT TYPE **APPLY SHOULDER FOG SEAL 0.2 GAL/SY AT 50% DILLUTION					WB SUBTOTAL	200287.6	1601.9	20188.9	19852.40	4708.8	
					EB SUBTOTAL	183839.4	493.3	18433.1	18121.51	4634.1	
					TOTAL	384127.0	2095.2	38622.0	37973.91	9342.9	
					USE	384127	2095	38622	37973.9	9343	



DATE PREPARED
10/5/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
1713008

CONTRACT ID.	
--------------	--

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

--	--

PAVEMENT MARKING											
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	6" SOLID WHITE TYPE L (LF)	6" DOTTED WHITE TYPE L (LF)	6" SOLID YELLOW TYPE L (LF)	24" YELLOW PREFORMED (LF)	LT/RT ARROW (EA)	LANE REDUCTION ARROW (EA)	24" STOP BAR/GORE BARS, WHITE (LF)	12" GORE LINES WHITE (LF)	REMARKS
0.000	9.256	48872	48872.0	12218.0	48872.0						EASTBOUND MAINLINE STRIPING
283.932	293.094	48375	48375.0	12093.8	48375.0						WESTBOUND MAINLINE STRIPING
VAR	VAR	16692	15614.0	8440.0	8440.0	74.0	16	2	115	4708	EASTBOUND RAMP STRIPING
VAR	VAR	23206	20804.0	7964.0	7964.0		15		56	4796	WESTBOUND RAMP STRIPING
			TOTAL	133665	40715.8	113651.0	74.0	31	2	171	9504
			USE	174381		113651	74	31	2	171	9504
6" WHITE COLUMN INCLUDES QUANTITY FOR BOTH INTERMITTANT CENTERLINE STRIPE AND SOLID EDGE OF PAVEMENT STRIPE.											

WELCOME CENTER RAMP REBUILD									
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	8 IN NON-REINFORCED JPCP (9' x 9' SLABS) (SY)	COLDMILL CONCRETE (SY)	MILL ASPHALT > 3IN THICK (SY)	SAW CUTS FOR SLABS (LF)	DOWEL BARS WITH 12' BASKETS (EA)	TIE BARS 30" SPACING (EA)	REMARKS
1.729	1.877	781	1,562.0	1,562.0	1,562.0	2343.0	66.0	313.0	EB RAMP FROM I-44 TO WELCOME CENTER
2.052	2.158	560	1,120.0	1,120.0	1,120.0	1680.0	47.0	224.0	WB RAMP FROM WELCOME CENTER TO I-44
			TOTAL	2,682.0	2,682.0	2,682.0	4,023.0	113.0	537.0
			USE	2,682	2,682	2,682	4,023	113	537

BITUMINOUS RUMBLE STRIPS					
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	LT SHLDR RUMBLE (STA)	RT SHLDR RUMBLE (STA)	REMARKS
0.000	9.256	48872	442.90	355.90	EASTBOUND
283.932	293.094	48375	459.00	340.80	WESTBOUND
			SUBTOTAL	901.90	696.70
			TOTAL	1,598.60	
			USE	1,598.6	
*OFFSET RUMBLES 1' FROM SHOAL CREEK BRIDGE TO EAST END OF PROJECT					

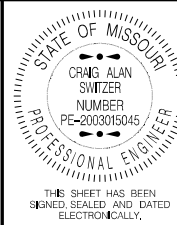
INDUCTION DETECTORS					
LOG MILE	NUMBER OF SENSORS	LOOP SIZE	LOOP (FT)	LEAD-IN CABLE (FT)	REMARKS/LOCATION
EASTBOUND					
0.344	2	6 x 30	528	86	I-44 TO RTE 166 SIGNAL
6.591	1	6 x 30	264	20	I-44 TO NB LOOP 44 (RTE 86) SIGNAL
WESTBOUND					
286.524	2	6 x 30	528	56	I-44 TO SB RTE 86 SIGNAL
289.048	2	6 x 30	528	53	I-44 TO SB RTE 43 SIGNAL
			TOTAL	1,848	215
			USE	1,850	220

REMOVAL OF IMPROVEMENTS
REMARKS
25623 LF GUARDRAIL
2682 SY CONCRETE PAVEMENT
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

MOBILIZATION	TEMPORARY PAVEMENT MARKING PAINT
1 LUMP SUM	1 LUMP SUM

NOTE: UNDERRUN CABLE, LOOP DETECTORS, IN DUCT IF NOT DAMAGED BY CONTRACTOR OPERATIONS



DATE PREPARED 10/5/2021	
ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY NEWTON	
JOB NO. J713008	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE					

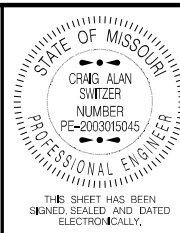
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MGS GUARDRAIL											
BEGIN LOG MILE	END LOG MILE	RT/LT	REMOVALS (FT)	SHAPING SLOPES CLASS III (100 FT)	MASH END TERMINAL (EA)	MGS END ANCHOR (EA)	BRIDGE APPROACH TRANSITION (EA)	DOUBLE-FACED GUARDRAIL TRANSITION (LF)	MGS GUARDRAIL 8' POSTS 6'3" SPACING (LF)	MGS TYPE B CRASHWORTHY END TERMINAL (EA)	REMARKS
EASTBOUND											
0.217	0.333	RT	612	0.5	1		1		525		BRIDGE L0855 RIGHT
0.247	0.332	LT	449	0.5	1		1		362.5		BRIDGE L0855 LEFT
0.471	0.543	LT	380	0.5	1	1			325		SIGN PROTECTION
0.707	0.783	LT	401	0.5	1	1			337.5		SIGN PROTECTION
1.078	1.130	RT	275	0.5	1	1			212.5		OVERHEAD SENSOR PROTECTION
1.221	1.283	RT	327	0.5	1	1			275		OVERHEAD SENSOR PROTECTION
2.271	2.334	RT	333	0.5	1	1			275		WELCOME CENTER RAMP TAPER
2.872	2.931	RT	312	0.5	1	1			250		WEIGH STATION OVERHEAD SENSOR PROTECTION
3.944	3.999	RT	290	0.5	1	1			237.5		RTE 43 BRIDGE PROTECTION
3.968	4.032	LT	338					50	450	2	RTE 43 BRIDGE MEDIAN PROTECTION
4.097	4.283	RT	982	0.5	1	1			925		RTE 43 TO I-44 RAMP TAPER
4.713	4.796	RT	438	0.5	1	1			375		SLOPE PROTECTION
5.224	5.546	RT	1700	0.5	1	1			1637.5		SLOPE PROTECTION
6.201	6.379	RT	940	0.5	1	1			887.5		I-44 TO RTE 86 TAPER
6.497	6.580	LT	438	0.5	1		1		362.5		BRIDGE L0858 LEFT
6.509	6.575	RT	348	0.5	1		1		262.5		BRIDGE L0858 RIGHT
6.630	6.684	RT	285	0.5	1		1		200		BRIDGE L0858 RIGHT
6.732	6.854	RT	644	0.5	1	1			587.5		RTE 86 TO I-44 RAMP DITCH PROTECTION
7.194	7.498	RT	1605	0.5	1	1			1550		SLOPE PROTECTION
7.748	7.819	RT	375	0.5	1	1			312.5		CONNECTICUT AVE BRIDGE PROTECTION
7.790	7.832	LT	222					50	225	2	CONNECTICUT BRIDGE MEDIAN PROTECTION
8.247	8.470	RT	1177	0.5	1	1			1125		SLOPE PROTECTION
8.529	8.593	LT	338	0.5	1	1			275		SIGN PROTECTION
8.548	8.593	RT	238	0.5	1	1			175		SIGN PROTECTION
8.732	8.792	RT	317	0.5	1		1		237.5		BRIDGE A8047 PROTECTION RIGHT
WESTBOUND											
284.037	284.094	LT	301	0.5	1	1			237.5		SIGN PROTECTION
284.068	284.105	RT	195	0.5	1	1			137.5		SIGN PROTECTION
284.228	284.262	RT	180	0.5	1	1			125		I-44 TO RANGE LINE ROAD RAMP
284.256	284.317	RT	322		1		1		237.5		BRIDGE A8047
284.557	284.587	RT	158				1		125		BRIDGE A8047
284.616	284.891	RT	1452	0.5	1	1			1400		RANGE LINE ROAD TO I-44 RAMP
285.300	285.360	RT	317	0.5	1	1			262.5		CONNECTICUT AVE BRIDGE PROTECTION
285.701	285.823	RT	644	0.5	1	1			587.5		SLOPE PROTECTION
286.097	286.155	RT	306	0.5	1	1			250		SLOPE PROTECTION
286.268	286.333	RT	343	0.5	1	1			287.5		SLOPE PROTECTION
286.414	286.444	RT	158	0.5	1	1			100		I-44 TO RTE 43 RAMP SIGN PROTECTION RIGHT
286.415	286.455	LT	211	0.5	1	1			150		I-44 TO RTE 43 RAMP SIGN PROTECTION LEFT
286.434	286.515	LT	428		1		1		350		BRIDGE L0857
286.448	286.509	RT	322		1		1		237.5		BRIDGE L0857
286.735	286.859	RT	655	0.5	1	1			600		RTE 43 TO I-44 RAMP
287.532	287.674	RT	750	0.5	1	1			687.5		SLOPE PROTECTION
287.789	287.949	RT	845	0.5	1	1			787.5		SLOPE PROTECTION
288.167	288.227	RT	317	0.5	1	1			262.5		SLOPE PROTECTION
288.308	288.429	RT	639	0.5	1	1			575		SLOPE PROTECTION
289.095	289.158	RT	333	0.5	1	1			275		RTE 43 BRIDGE PROTECTION
290.081	290.141	RT	317	0.5	1	1			262.5		WEIGH STATION OVERHEAD SENSOR PROTECTION
290.786	290.850	RT	338	0.5	1	1			275		SLOPE PROTECTION
292.311	292.370	LT	312	0.5	1	1			250		SIGN PROTECTION
292.314	292.372	RT	306	0.5	1	1			250		SIGN PROTECTION
292.543	292.617	LT	391	0.5	1	1			337.5		SIGN PROTECTION
292.573	292.615	RT	222	0.5	1	1			162.5		SIGN PROTECTION
292.709	292.752	RT	227	0.5	1	1			175		I-44 TO RTE 166 SIGN PROTECTION LEFT
292.744	292.760	LT	84	0.5	1	1			25		I-44 TO RTE 166 SIGN PROTECTION RIGHT
292.712	292.799	LT	459		1		1		375		BRIDGE L0854 LEFT
292.738	292.800	RT	327		1		1		250		BRIDGE L0854 RIGHT
TOTAL			25,623	23.5	52	41	12	100	22,425.0	4	
USE SEE REMOVALS				24	52	41	12	100	22,425	4	
REMOVAL OF IMPROVEMENTS PAID AS LUMP SUM, BUT SHOWN IN LINEAR FEET FOR CLARITY EROSION CONTROL AND SEEDING INCIDENTAL TO SHAPING SLOPES CLASS III											



DATE PREPARED 10/5/2021	
ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY NEWTON	
JOB NO. J713008	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



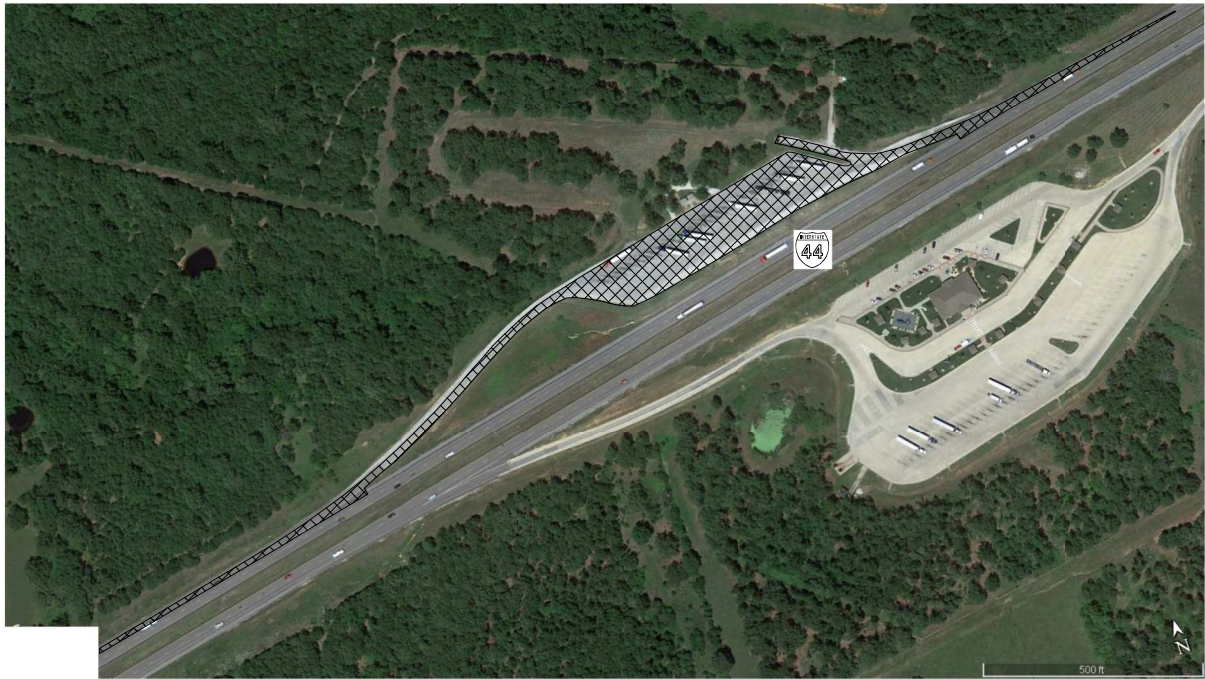
I-44 & 166 RAMPS



I-44 & 166 RAMPS



EB I-44 WELCOME CENTER



WB TRUCK PARKING

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT

ALL STATION AND/OR LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CAN VARY AS APPROVED BY ENGINEER

ALL IMAGES NOT TO SCALE



1.75" MILL & FILL WITH SP125BSM



8" MILL & FILL WITH 8" JPCP SAWED INTO 9'X9' SLABS WITH SINGLE 12' DOWEL BASKETS


STATE OF MISSOURI
CRAIG ALAN SWITZER
NUMBER
PE-2003015045
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 10/5/2021	
ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 4
COUNTY NEWTON	
JOB NO. J713008	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



I-44 WEIGH STATION



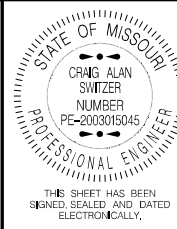
I-44 WEIGH STATION

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT

ALL STATION AND/OR LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CAN VARY AS APPROVED BY ENGINEER

ALL IMAGES NOT TO SCALE

1.75" MILL & FILL
WITH SP125BSM



DATE PREPARED 10/5/2021	
ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 5
COUNTY NEWTON	
JOB NO. J713008	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

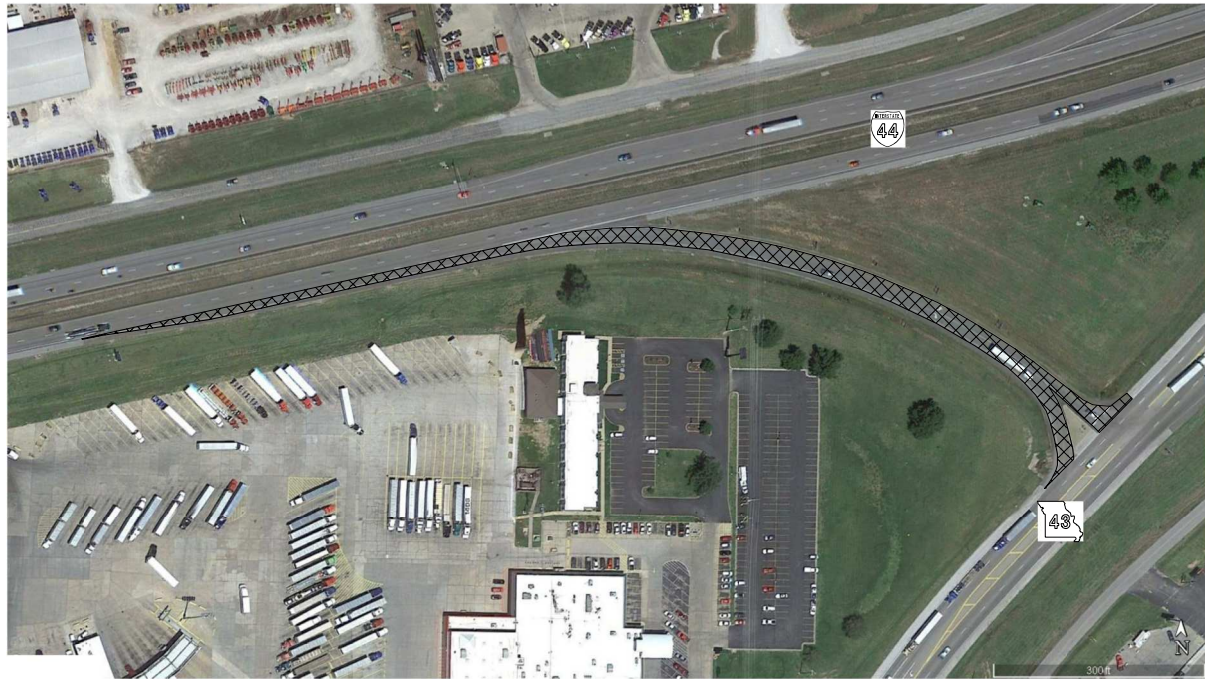
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



ROUTE 43 RAMP



ROUTE 43 RAMP



ROUTE 43 RAMP

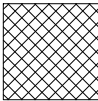


ROUTE 43 RAMP

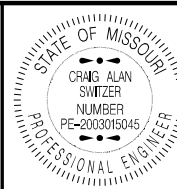
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT

ALL STATION AND/OR LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CAN VARY AS APPROVED BY ENGINEER

ALL IMAGES NOT TO SCALE



1.75" MILL & FILL
WITH SP125BSM



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/5/2021

ROUTE
I-44

STATE
MO

DISTRICT
SW

SHEET NO.
6

COUNTY
NEWTON

JOB NO.
J713008

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



ROUTE 86 RAMPS



ROUTE 86 RAMPS



RANGE LINE ROAD RAMPS



RANGE LINE ROAD RAMPS

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT

ALL STATION AND/OR LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CAN VARY AS APPROVED BY ENGINEER

ALL IMAGES NOT TO SCALE



1.75" MILL & FILL WITH SP125BSM

STATE OF MISSOURI

CRAIG ALAN SWITZER

NUMBER PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED10/5/2021

ROUTE1-44STATEMO

DISTRICTSWSHEET NO.7

COUNTYNEWTON

JOB NO.J713008

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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI

CRAIG ALAN
SWITZER
NUMBER
PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY,

ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 8

JOB NO.
J7I3008

PROJECT NO.

BRIDGE NO.						

[illegible][illegible][illegible][illegible]

	DES

[illegible]

DATE						
------	--	--	--	--	--	--

[illegible]

CAPITAL 6510-6630

PORT

TRANS
105 W
N CIT
1-88

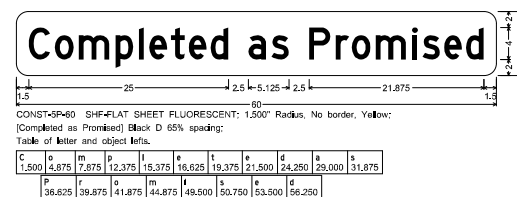
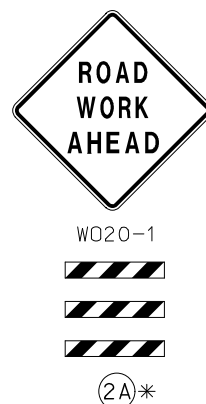
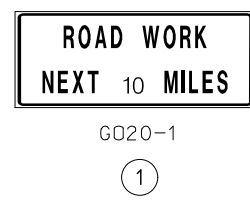
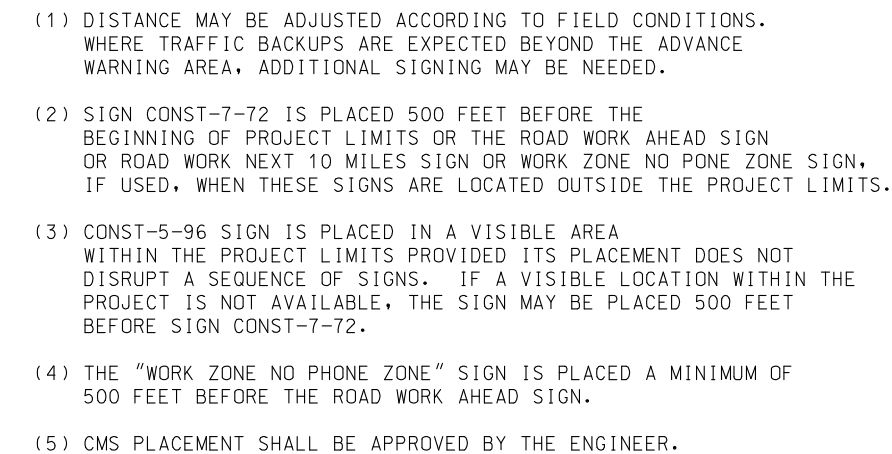
PERSON
DO NOT



M	
---	--

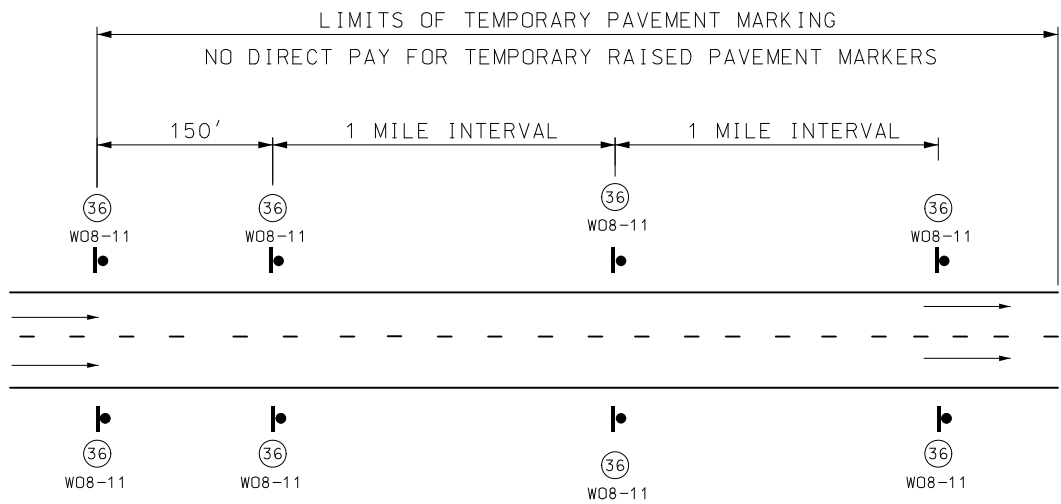
1

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



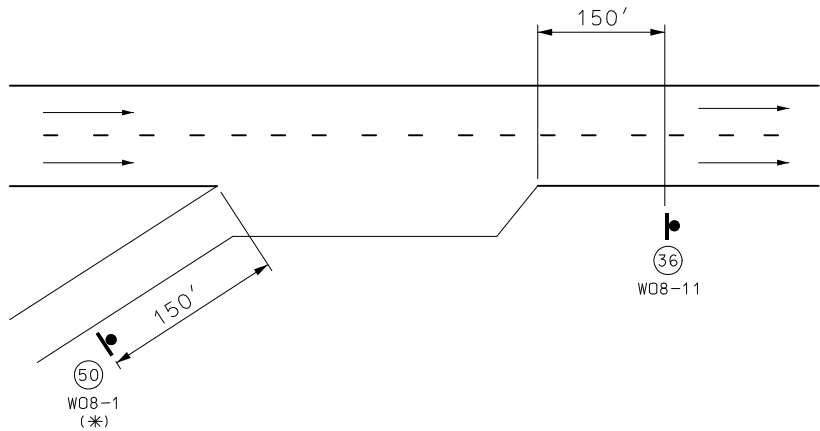
TRAFFIC CONTROL
SHEET 1 OF 8

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



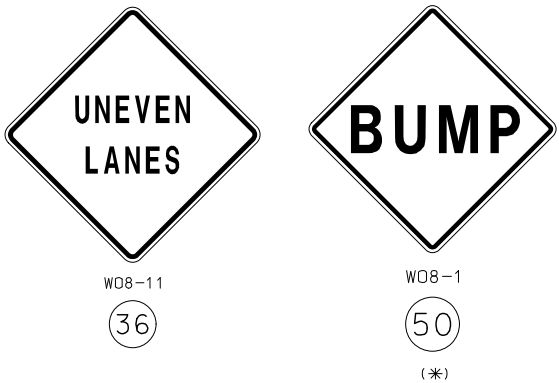
SIGN SPACING FOR DIVIDED OR MULTI-LANE HIGHWAY

(DETAIL SHOWN IS BASED ON A PROJECT MEETING CONDITIONS OF UNEVEN LANES AND SHOULDER DROP-OFF.)
WHEN BOTH UNEVEN LANES AND SHOULDER DROP-OFF SIGNS ARE USED, BOTH SIGNS SHALL STAY IN PLACE UNTIL BOTH CONDITIONS NO LONGER EXISTS.
WHEN ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP-OFF), SIGN SPACING SHALL BE AT 1 MILE INTERVALS



SIGN SPACING AT RAMPS

(*) BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.



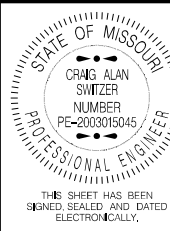
GENERAL NOTES:

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

WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 2 OF 8



DATE PREPARED 10/5/2021	
ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 9
COUNTY NEWTON	
JOB NO. J713008	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

- *POSTED SPEED LIMIT.
- *TAPER LENGTHS MAY BE ADJUSTED.
- *SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
- *BASED ON 10FT SHOULDER WIDTH
- *BASED ON 12FT LANE WIDTH
- *SPACING REDUCED TO $\frac{1}{2}$ AT INTERSECTIONS.
- *SPACING MAY BE REDUCED TO $\frac{1}{2}$ AT INTERSECTIONS.

¹ POSTED SPEED LIMIT.
² SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
³ FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IS 100 FT.



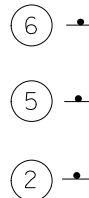
• S I G N (S I N G L E S I D E D)



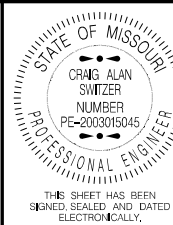
⑥ —●—

⑤ —●—

② —●—



TRAFFIC CONTROL
SHEET 5 OF 8



DATE PREPARED
10/5/2021

ROUTE I-44	STATE MO
DISTRICT SW	SHEET NO. 13

COUNTY
NEWTON

JOB NO.
J713008

CONTRACT ID.

PROJECT NO.

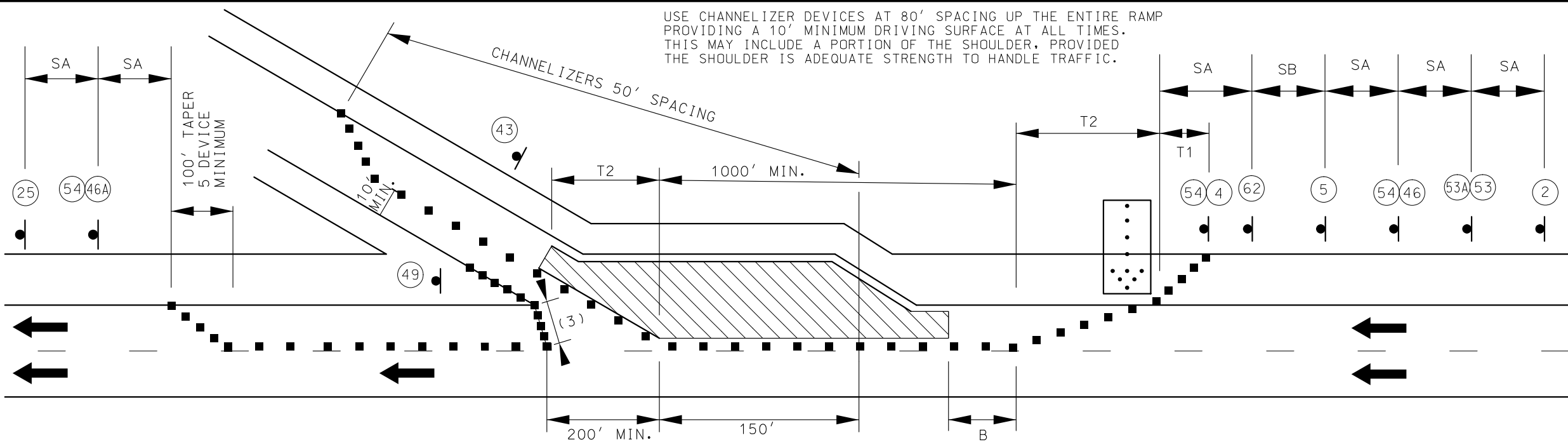
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



W020-1
(2)



W020-5
(5)

CENTER LANE
OR
LEFT LANE



W020-6a
(6)

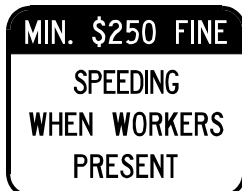
CENTER
OR
LEFT



W04-1a
(62)



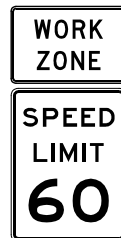
G020-5aP
(54)
R4-1
(46)



CONST-3A
(53)



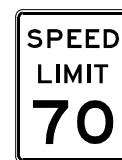
CONST-3X
(53A)



G020-5aP
(54)
R2-1
(4)



G020-5aP
(54)
R4-2
(46A)



R2-1
(25)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▬ SIGN (DOUBLE SIDED)
- ◁ FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW BOARD

NOTES:

A PROTECTIVE VEHICLE IS OPTIONAL WHILE WORK IS IN PROGRESS. THE PROTECTIVE VEHICLE SHALL BE EQUIPPED WITH A TMA AND FLASHING ARROW PANEL AND POSITIONED AT LEAST 150 FT. IN ADVANCE OF THE WORK SPACE. THE PROTECTIVE VEHICLE MAY BE ELIMINATED IF THE ROADWAY IS POSTED AT 45 MPH OR BELOW, THE WORK VEHICLE IS POSITIONED IN ADVANCE OF THE WORK SPACE, AND THE WORK VEHICLE IS EQUIPPED WITH A FLASHING ARROW PANEL AND USES ACTIVATED ROTATING LIGHTS OR STROBE LIGHTS.

ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES SHOULD BE RESTRICTED TO ONE SIDE OF THE PAVEMENT.

THE OPEN LANE ON I-44 SHALL BE PROVIDED WITH A 12 FT. MINIMUM DRIVING SURFACE AT ALL TIMES. THIS MAY INCLUDE A PORTION OF THE SHOULDER, PROVIDED THE SHOULDER IS OF ADEQUATE STRENGTH TO HANDLE TRAFFIC.

FOR MOBILE OPERATIONS WHERE WORKERS ARE ON FOOT AND MOVE WITH THE OPERATION, CHANNELIZERS MAY BE REDUCED OR ELIMINATED.

FOR OPERATIONS IN WHICH CHANNELIZERS ARE NOT USED, THE ARROW MODE SHALL BE DISPLAYED ON ANY FLASHING ARROW PANEL LOCATED DOWNSTREAM OF THE TAPER.

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

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS

SIGN 2, 25, 46, AND 53 NOT NEEDED IF WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2, 25, 46, AND 53 IS ALREADY USED

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

SIGN 6, AND 62 SHOWN FOR RIGHT LANE CLOSURE. FOR LEFT LANE CLOSURE, MOVE SIGN 6, AND 62 TO OPPOSITE SIDES.

ROADWAY TYPE	SIGN HEIGHT	MAX. WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MILE
RURAL DIVIDED	1' PORTABLE 7' POST	2 MILES
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MILES



W05-1
(43)

BRIDGE
OR
RAMP

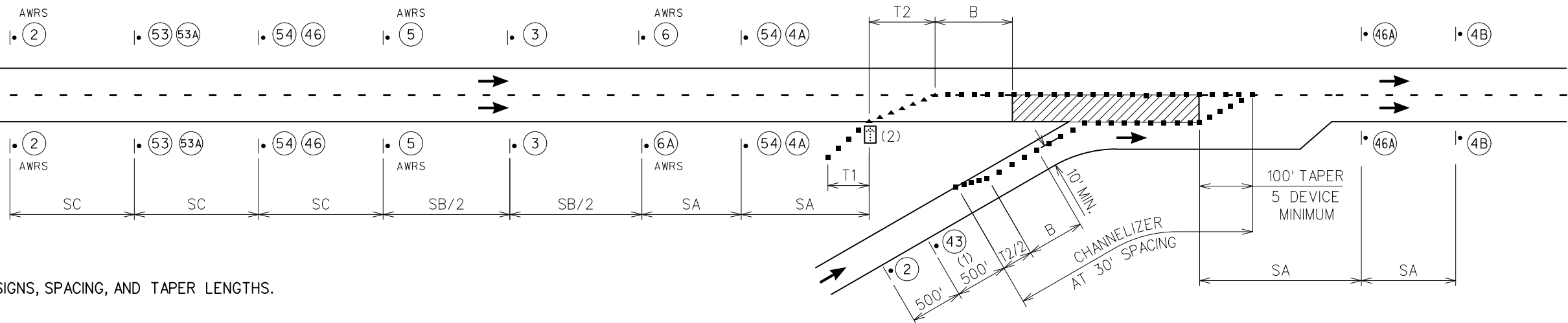
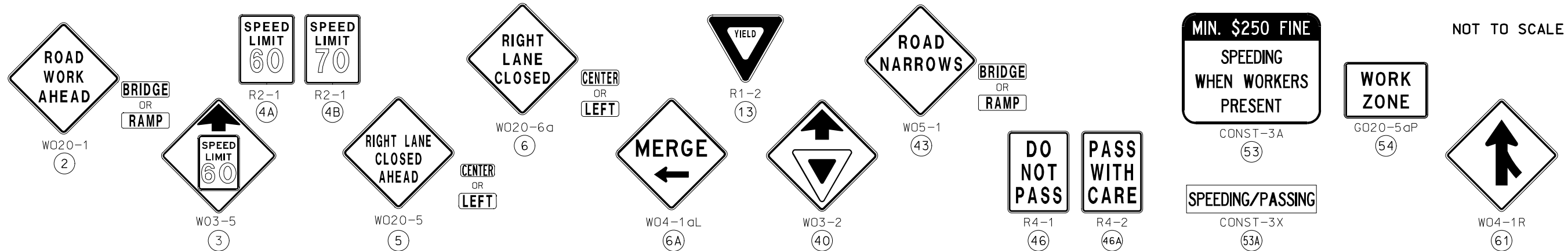


E05-1
(49)

(3) 5 CHANNELIZER DEVICES MINIMUM

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		OPT. BUFFER LENGTH (FT)	CHANNELIZER SPACING (FT)	
	UNDIVIDED (S)	DIVIDED (S)	SHLDR (T1)	LANE (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, AND SC-2640		235	840	840	60	120

TRAFFIC CONTROL
SHEET 6 OF 8

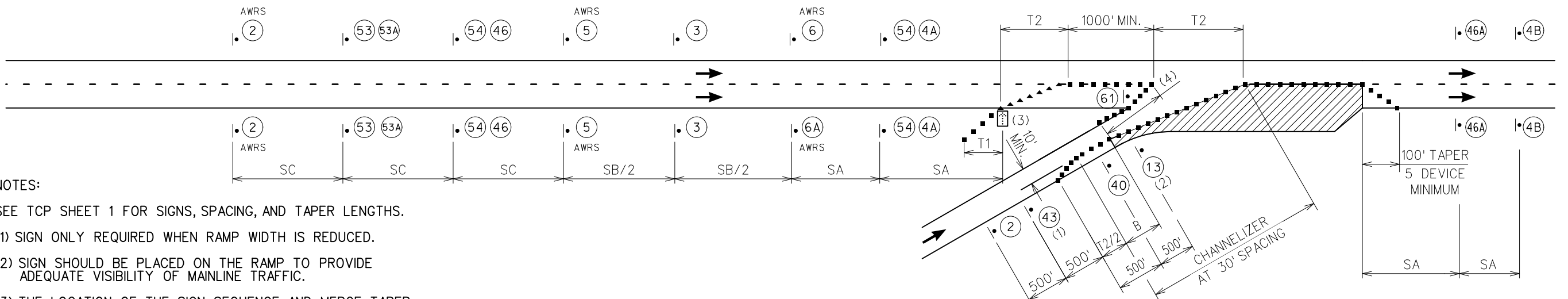


NOTES:
SEE TCP SHEET 1 FOR SIGNS, SPACING, AND TAPER LENGTHS.

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

(2) 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.

ENTRANCE RAMP AREA
MAINLINE WORK



NOTES:
SEE TCP SHEET 1 FOR SIGNS, SPACING, AND TAPER LENGTHS.

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

(2) SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

(3) 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.

(4) CHANNELIZER SPACING AT 30'.

ENTRANCE RAMP AREA
ACCELERATION LANE WORK

STATE OF MISSOURI
CRAG ALAN SWITZER
NUMBER PE-2003015045
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN
SIGNED, SEALED, AND DATED
ELECTRONICALLY.

DATE PREPARED
10/6/2021
ROUTE
I-44
DISTRICT
SW
STATE
MO
SHEET NO.
14
COUNTY
NEWTON
JOB NO.
J713008
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

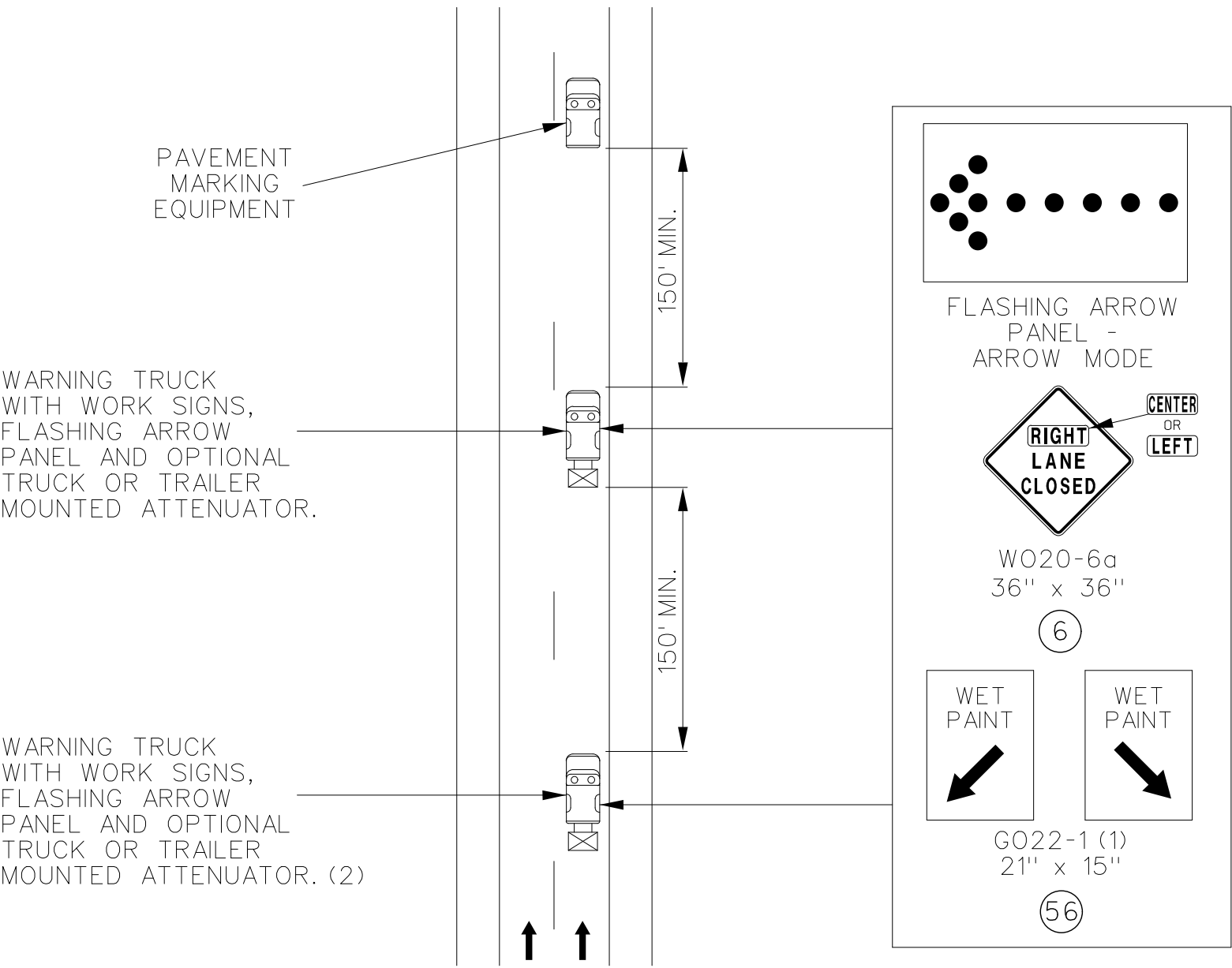
DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOT TO SCALE



NOTES:

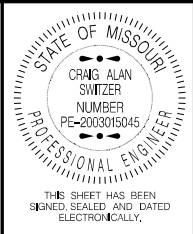
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH APPROPRIATE PROPER WARNING DEVICES.

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 STROBE LIGHTS.

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

- (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) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.



DATE PREPARED 8/11/2021	
ROUTE I-49	STATE MO
DISTRICT SW	SHEET NO. 15
COUNTY NEWTON	
JOB NO. J713008	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESIGN DESIGNATION

A.A.D.T. - 2022 = 2,308
A.A.D.T. - 2042 = 3,529
D.H.V. = 9.5%
T = 22.4%
V = 45 M.P.H.
D = N/A

FUNCTIONAL CLASSIFICATION- INTERSTATE

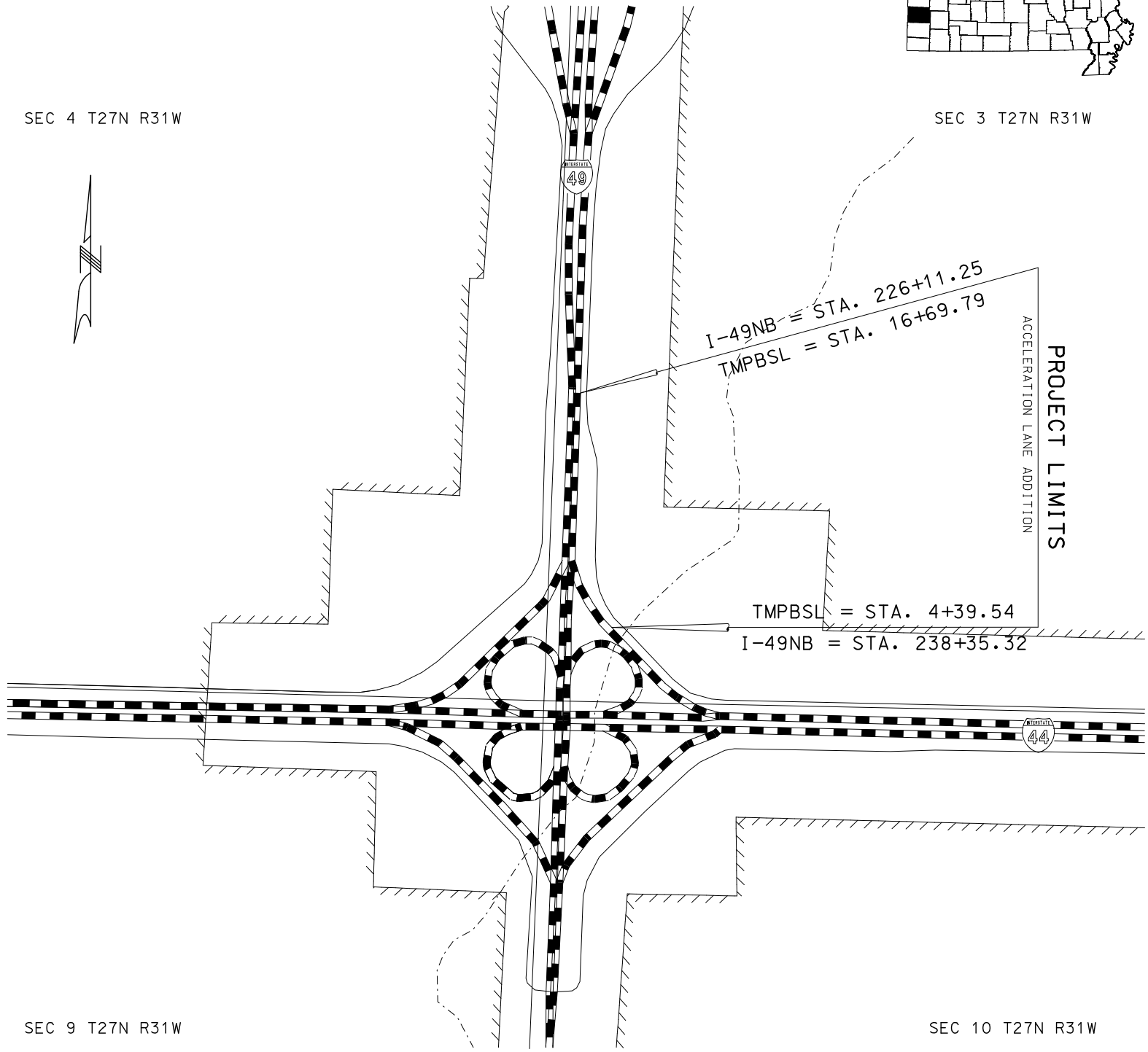
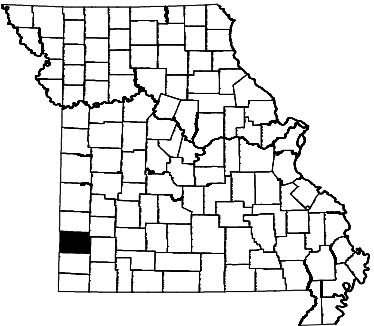
NO NEW RIGHT OF WAY

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-	-F0-
OVERHEAD CABLE TV	-OTV-	-0TV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-0T-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-0E-
UNDERGROUND POWER	-UE-	-UT-
SANITARY SEWER	-S-	-0-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
JASPER 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

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (2 SHEETS)---	2
QUANTITIES (QU) (3 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-6
RIGHT OF WAY (RW)-----	N/A
REFERENCE POINTS (RP)-----	N/A
COORDINATE POINTS (CP)-----	7
SPECIAL SHEETS (SS)-----	N/A
TRAFFIC CONTROL SHEETS (TC)-----	8-14
EROSION CONTROL SHEETS (EC)-----	15-17
LIGHTING (LT)-----	18-20
SIGNALS (SG)-----	N/A
SIGNING (SN)-----	N/A
PAVEMENT MARKING (PM)-----	21-23
CULVERT SECTIONS (CS)-----	24
CROSS SECTIONS (XS)-----	25-30

LENGTH OF PROJECT

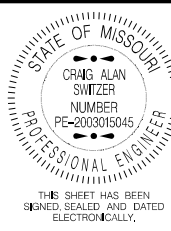
BEGINNING OF PROJECT STA. 226 + 11.25
END OF PROJECT STA. 238 + 35.32

APPARENT LENGTH 1224.07 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS 0.00 FEET
NET LENGTH OF PROJECT 1224.07 FEET
STATE LENGTH 0.234 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 1 ACRES



DATE PREPARED 10/5/2021
ROUTE 149 STATE MO
DISTRICT SW SHEET NO. 1
COUNTY JASPER
JOB NO. J713530
CONTRACT ID.

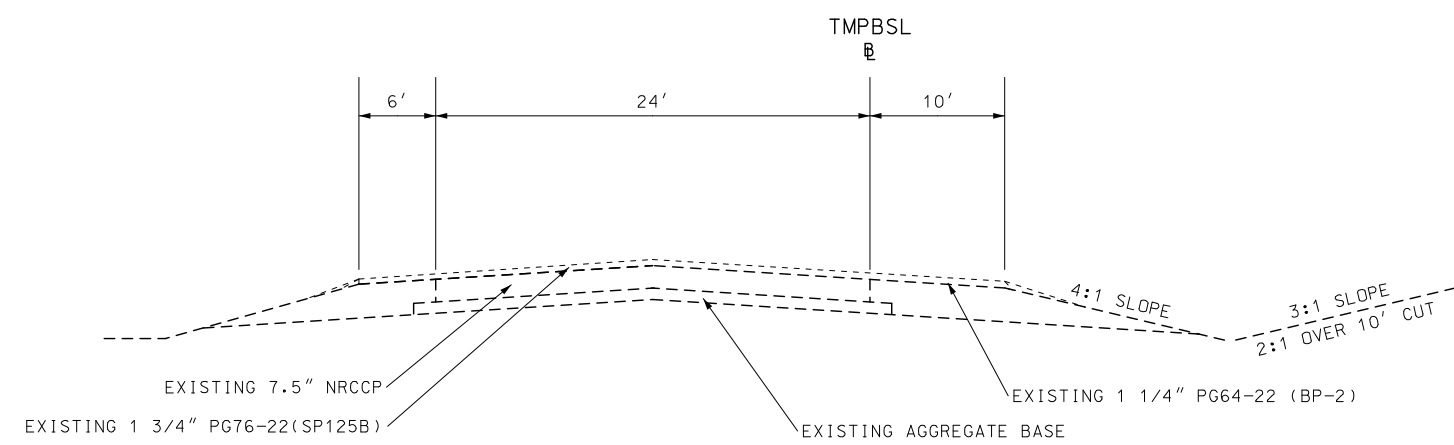
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

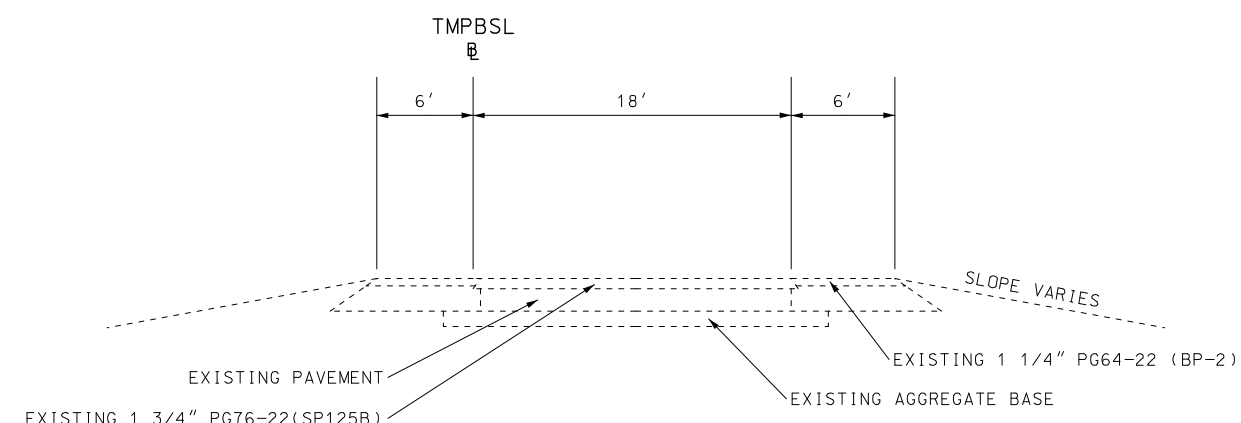
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



I49NB EXISTING
STA. 6+52.02-16+69.79



I44WB TO I49NB RAMP EXISTING
STA. 5+00.00-6+15.40

NOTES:
NOT TO SCALE

STATIONING BASED ON CONSTRUCTION
ALIGNMENT TMPBSL NOT I49

STATE OF MISSOURI
CRAG ALAN SWITZER
NUMBER
PE-2003015045
PROFESSIONAL ENGINEER

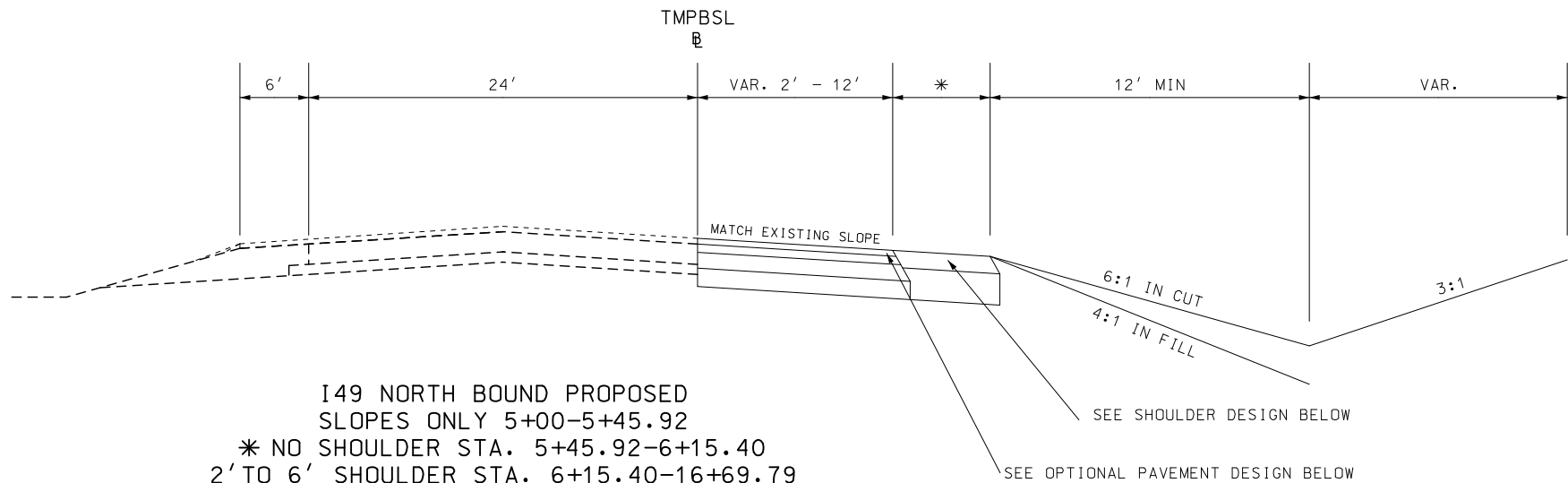
THIS SHEET HAS BEEN
SIGNED, SEALED, AND DATED
ELECTRONICALLY.

DATE PREPARED 8/9/2021	
ROUTE I49	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY JASPER	
JOB NO. J713530	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



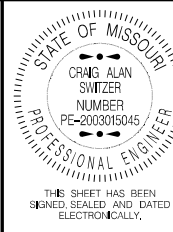
OPTIONAL PAVEMENT DESIGN				
LOCATION	BASE TYPE	HMA DESIGN	PCCP DESIGN	SHOULDER
I44WB TO I49NB RAMP	6" TYPE 5 AGGREGATE BASE	11 1/2" HMA 1 3/4" SP125C W/ PG70-22 OVER 3" SP250C W/ PG70-22 OVER 6 3/4" SP250C W/ PG64-22	9" PCCP 15 FT. JOINT SPACING AND 1 3/4" DOWELS	A2 OR FULL DEPTH

NOTES:
NOT TO SCALE

SEE MODOT STANDARD PLAN 401.00C
FOR A2 SHOULDER AND SAFETY EDGE

SEE MODOT STANDARD PLAN 626.00H
FOR RUMBLE STRIP

STATIONING BASED ON TMPBSL
ALIGNMENT NOT I49



DATE PREPARED 8/9/2021	
ROUTE I49	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY JASPER	
JOB NO. J713530	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

LUMINAIRE POLE AND EQUIPMENT										
SHEET	POLE NUMBER	ALIGNMENT	STATION	OFFSET	POLE FOUNDATION 45 FT	POLE 45 FT TYPE AT DESIGN 2	BRACKET ARM 15 FT	LUMINAIRE LED-B	CABLE, #10 AWG 1C POLE AND BRACKET	REMARKS
					EACH	EACH	EACH	EACH	FT	
20	1A01	TMPBSL	13+70.15	34.33' RT	1	1	1	1	120	
					TOTAL	1	1	1	120	
					USE	1	1	1	120	

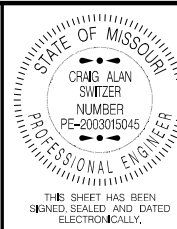
CABLE							
SHEET	FROM	TO	CENTER TO CENTER	WIRE #8 AWG BARE NEUTRAL	CABLE CONDUIT #8 AWG	TYPE 1 TRENCHING	REMARKS
			FT	FT	FT	FT	
18,19	1	2	500	508	1016	500	
19,20	2	1A01	205	213	426	205	
			TOTAL	721	1442	705	
			USE	730	1450	705	

PULLBOXES						
SHEET	NUMBER	ALIGNMENT	STATION	OFFSET	PULLBOX CONCRETE	TYPE 1 DRAIN
					EACH	EACH
18	1	TMPBSL	6+64.43	29.97' RT	1	1
19	2	TMPBSL	11+65.33	29.77' RT	1	1
				TOTAL	2	2
				USE	2	*

* NO DIRECT PAY

EARTHWORK					
ALIGNMENT	UNCLASSIFIED EXCAVATION	COMPACTING EMBANKMENT	EMBANKMENT IN PLACE	COMPACTING IN CUT	REMARKS
	CY	CY	CY	STA.	
TMPBSL	3798	143	143	11.2	
USE	3798	143	143	11.2	

SIGN ITEMS													
SHEET	SIGN NUMBER	ALIGNMENT	STATION	OFFSET	RELOCATE TO NEW POST	STRUCTURAL STEEL POST	2 IN. PSST POST - 12 GA.	SH FLAT SHEET	POST ANCHOR FOR 2 IN. PSST - 7 GA.	ST STRUCTURAL	BREAKAWAY ASSEMBLY (PSST)	CONCRETE FOOTINGS EMBEDDED	REMARKS
					EACH	LB	LF	SF	LF	SF	EACH	CY	
5		TMPBSL	11+19.81	47.47' RT	1	351				84		0.5	"EXIT 47. CEDAR ROAD 1/2 MILE"
5		TMPBSL	13+06.64	24.41' RT	1		7	8	3		1	0.2	MILE MARKER
6		TMPBSL	14+82.64	25.66' RT	1		14	20	6		2	0.3	SPEED LIMIT 70MPH
					TOTAL	3	351	21	9	84	3	1	
					USE	3	351	21	9	84	3	1	



DATE PREPARED
10/13/2021
ROUTE 149
DISTRICT SW
STATE MO
SHEET NO. 3

COUNTY
JASPER
JOB NO.
J713530
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ROUTE I 49	STATE MO
DISTRICT SW	SHEET NO. 3

JOB NO.
J7I3530

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

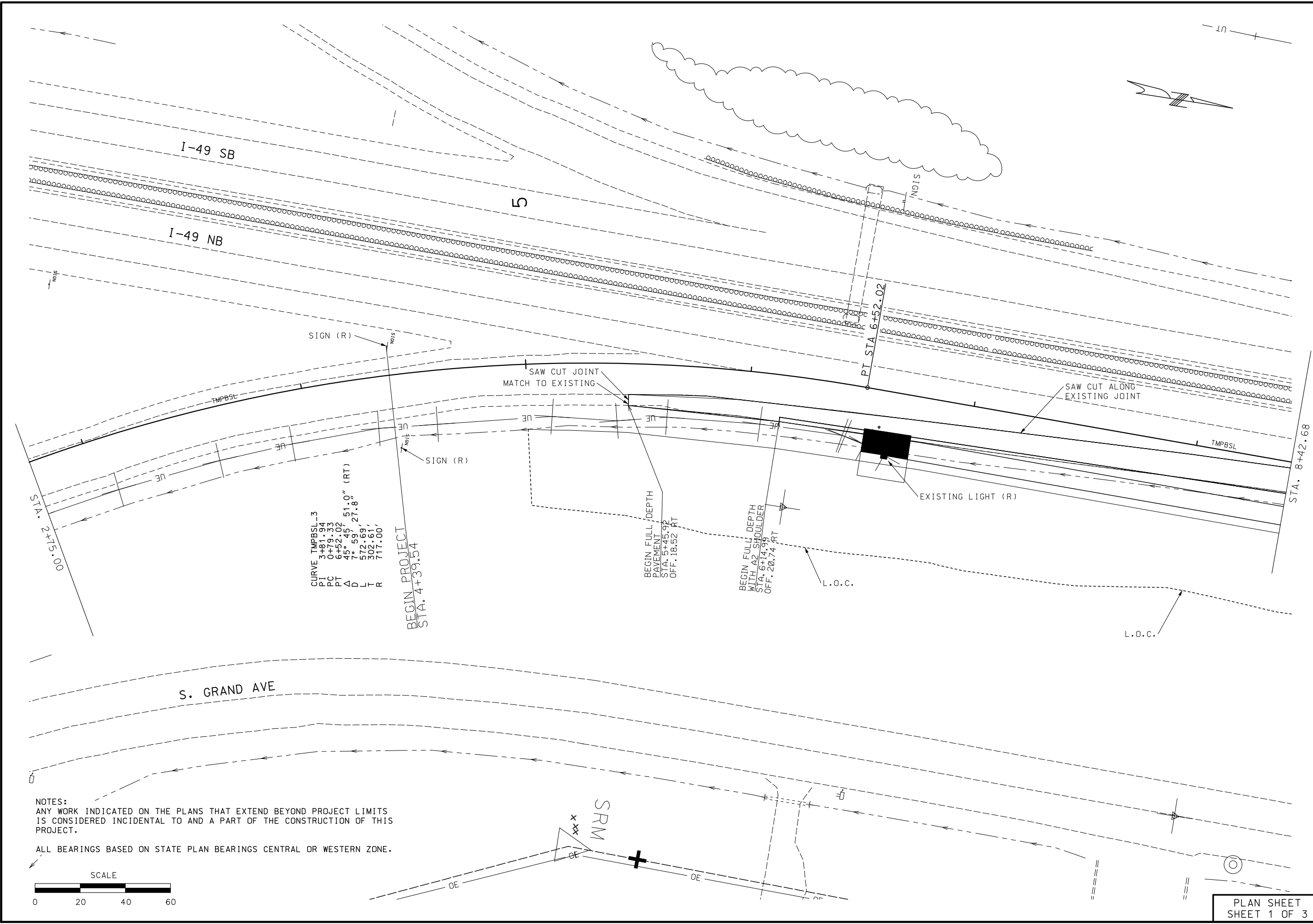
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

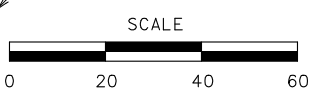
--

SUMMARY OF QUANTITIES
SHEET 3 OF 3



NOTES:
ANY WORK INDICATED ON THE PLANS THAT EXTEND BEYOND PROJECT LIMITS
IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS
PROJECT.

ALL BEARINGS BASED ON STATE PLAN BEARINGS CENTRAL OR WESTERN ZONE.



PLAN SHEET
SHEET 1 OF 3

STATE OF MISSOURI

CRAG ALAN SWITZER

NUMBER PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

10/6/2021

ROUTE

I 49

STATE

MO

DISTRICT

SW

SHEET NO.

4

COUNTY

JASPER

JOB NO.

J713530

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

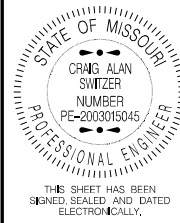
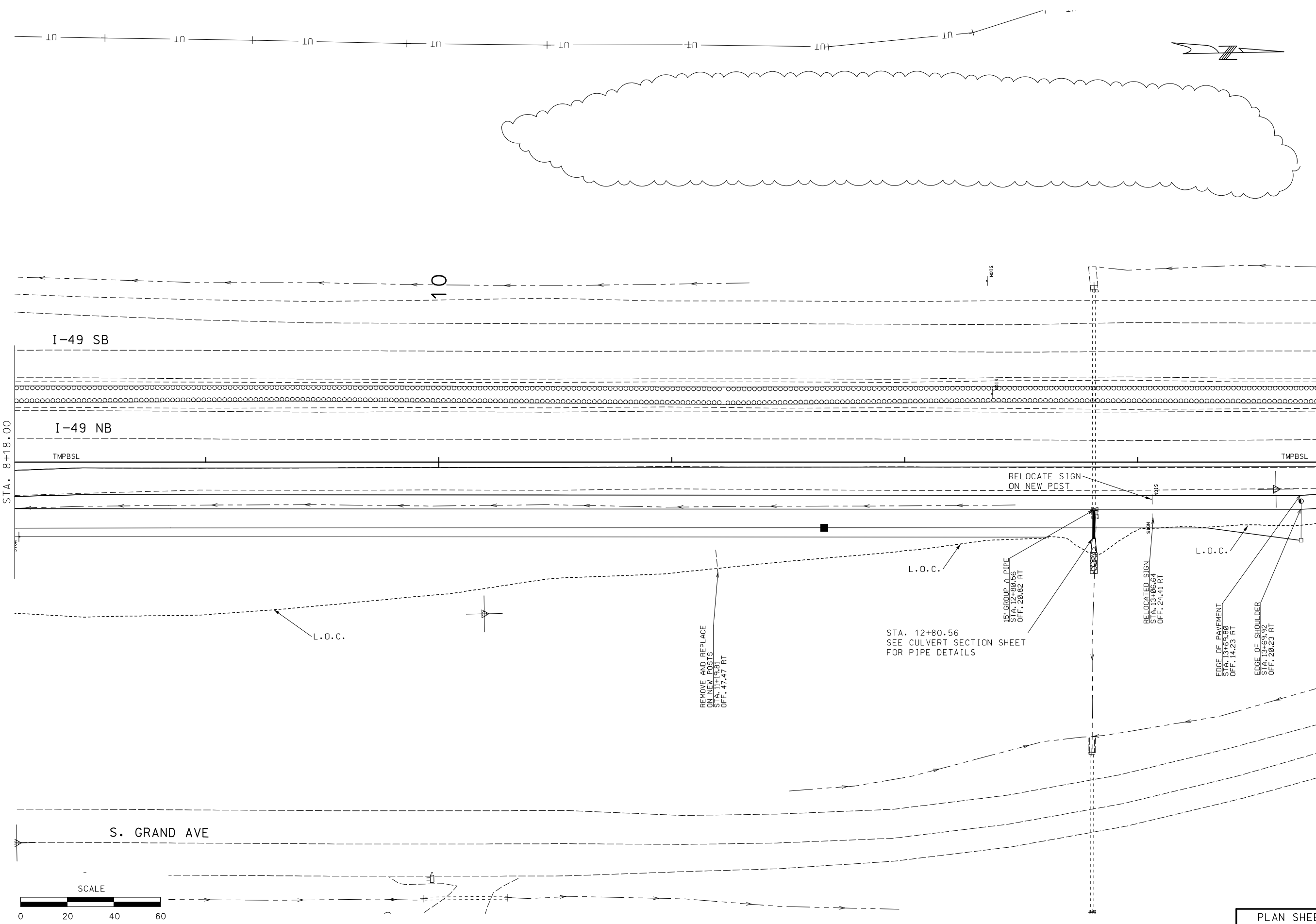
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED 8/9/2021	
ROUTE I 49	STATE MO
DISTRICT SW	SHEET NO. 5
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	

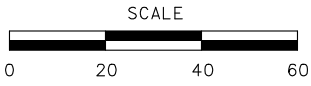
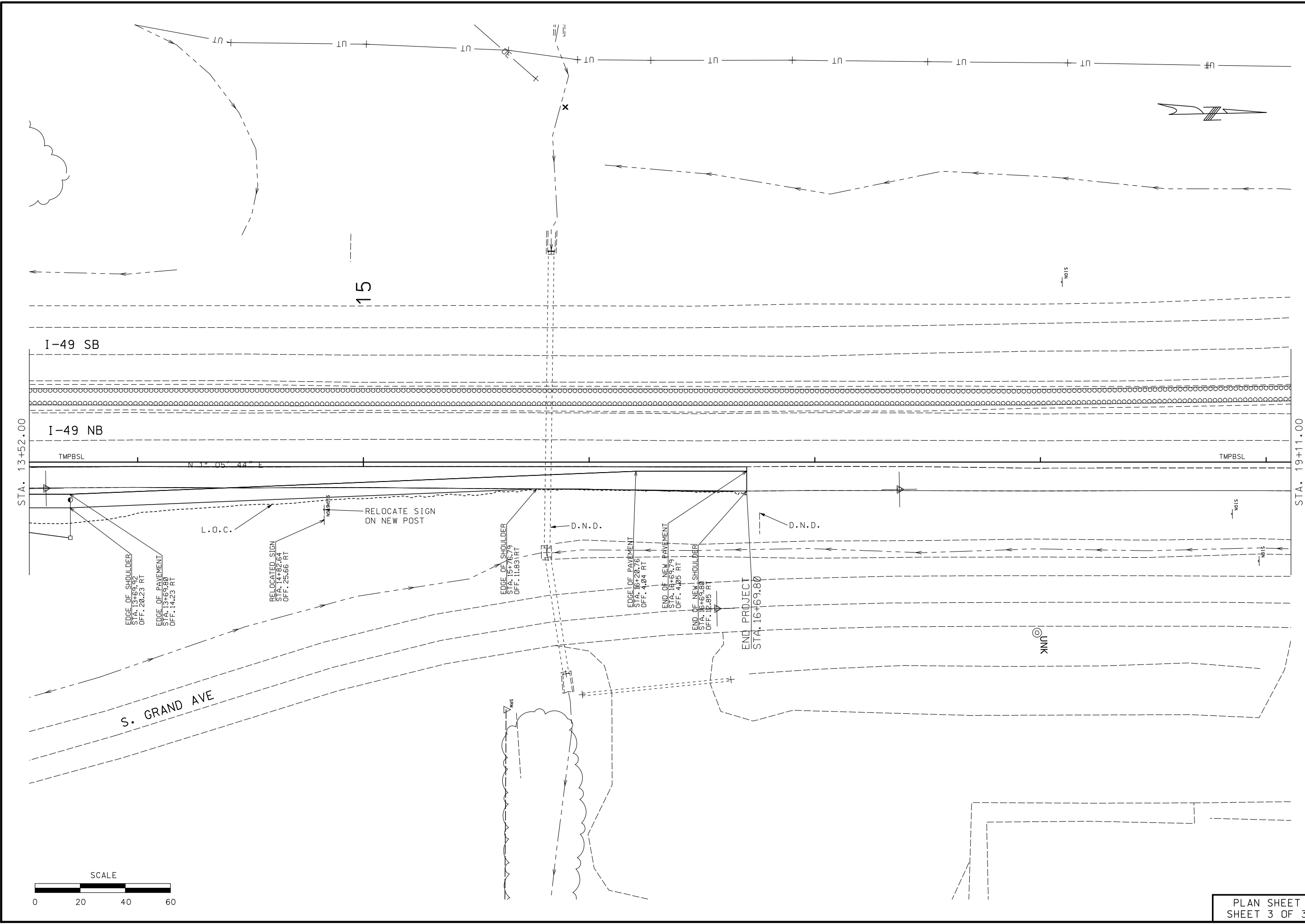
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PLAN SHEET
SHEET 3 OF 3

STATE OF MISSOURI

CRAG ALAN SWITZER

NUMBER PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED

8/9/2021

ROUTE

I 49

STATE

MO

DISTRICT

SW

SHEET NO.

6

COUNTY

JASPER

JOB NO.

J713530

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

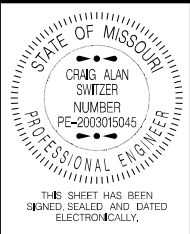
JEFFERSON CITY, MO 65102

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

COORDINATE POINT LISTING								
SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
PROJECT CONTROL POINTS								
plansheet 1	10+19.54	TMPBSL	65.12' RT	334,867.726	2,843,843.695	1,069.623	5/8 ROD W/ ALUMINUM CAP	503
-	-	-		336,345.669	2,843,912.268	1,071.387	5/8 ROD W/ ALUMINUM CAP	504
-	-	-		333,441.763	2,841,097.455	1,095.036	5/8 ROD W/ ALUMINUM CAP	505
ALIGNMENTS								
-	0+00.00	ℳ CON ALIGN	0	333,927.3391	2,844,034.2780	-	BEGIN TMPBSL CHAIN	TMPBSL1
-	0+79.33	ℳ CON ALIGN	0	333,983.7552	2,843,978.5105	-	PC CURVE TMPBSL_3	
-	3+81.94	ℳ CON ALIGN	0	334,190.9652	2,843,765.7740	-	PI CURVE TMPBSL_3	
5	6+52.02	ℳ CON ALIGN	0	334,501.5183	2,843,771.5599	-	PT CURVE TMPBSL_3	
-	22+25.92	ℳ CON ALIGN	0	336,075.1295	2,843,801.6489	-	END TMPBSL CHAIN	TMPBSL5
-	220+55.22	℄ I-49	0	336,075.3136	2,843,794.4841	-		POINT 7
-	245+01.26	℄ I-49	0	333,630.4430	2,843,718.9404	-		POINT 8
-	245+51.26	℄ I-49	0	333,580.4660	2,843,717.3961	-		POINT 9
-	11+14.46	℄ RAMP	0	333,934.7431	2,844,041.9165	-		RMPB1
	11+88.00	℄ RAMP	0	333,987.4710	2,843,990.6487	-	PC CURVE RMPB_3	
	14+92.00	℄ RAMP	0	334,205.4280	2,843,778.7268	-	PI CURVE RMPB_3	
	17+63.04	℄ RAMP	0	334,509.2832	2,843,788.1156	-	PT CURVE RMPB_3	


ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.	
PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MISSOURI WEST ZONE
HORIZONTAL DATUM	US STATE PLANE NAVD83
VERTICAL DATUM	NAVD88
GEOID MODEL	NGS 12B
ELEVATIONS DETERMINED BY	88 DATAM
PROJECT PROJECTION FACTOR	1.00010631
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	NAD83 (2011) EPOCH 2010.00 SPC MO W
CONTROL STATION	MODOT VRS
DESIGNATION	MODOT CARTHAGE CORS ARP
CORS_ID	MOCA
PID	DL6014
LATITUDE	37 10 39.16612
LONGITUDE	94 21 27.24307
NORTHING (M)	112181.729 (m)
EASTING (M)	862647.874 (m)
ZONE	MISSOURI WEST
PROJECT AVERAGE GRID FACTOR	0.999893701
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING EXAMPLE: CONTROL POINT #503 N 334867.726 X 0.999893701 = N 334832.130 E 2843843.695 X 0.999893701 = E 2843541.397	
LINEAR UNIT CONVERSION	
1 METER = 3.280833333 US SURVEY FEET (USFT)	



DATE PREPARED 8/9/2021	
ROUTE I 49	STATE MO
DISTRICT SW	SHEET NO. 7
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE								

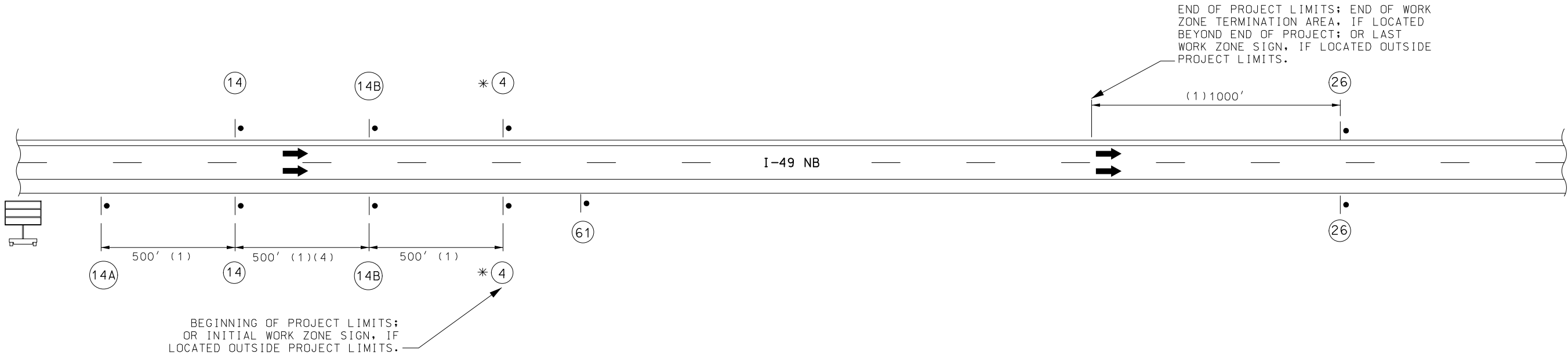
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



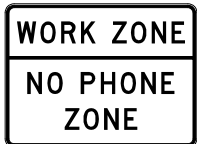
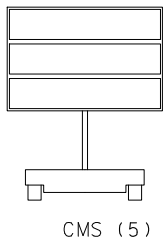
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

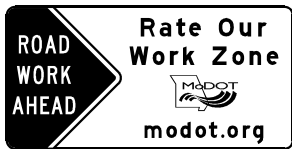


- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN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



CONST-8-48 (4)

14B



CONST-7-72 (2)

14A

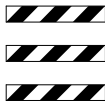


GO20-1

14

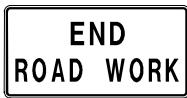


WO20-1



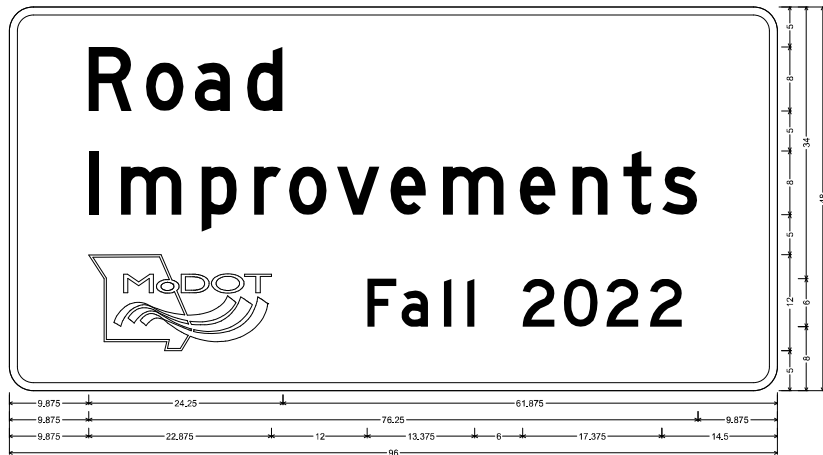
* 4

* SIGN WITH AWRS MUST BE GROUND OR SKID MOUNTED.



GO20-2

13



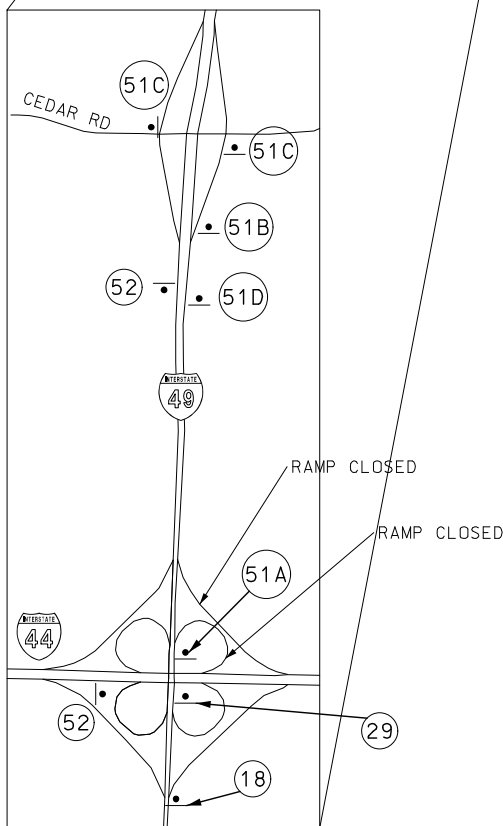
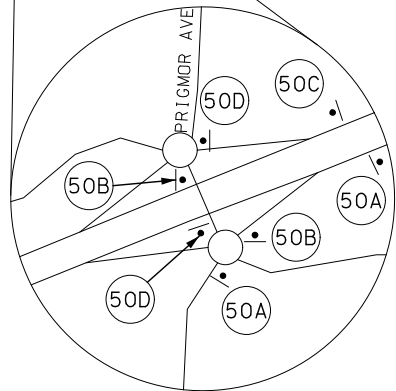
CONST-5-96 SH-FLAT SHEET: 3,000" Radius, 1,000" Border, White on Blue:
(Road) D; (Improvements) D; (Fall 2021) D;
Table of letter and object lifts.

R	0	17,125	23,125	d	29,750																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
I	8,875	14,000	24,000	30,625	35,000	v	41,000	47,625	m	54,250	e	63,750	n	70,375	t	76,750	s	81,625																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
W	8,875	44,750	49,000	l	54,375	57,250	2	64,125	O	69,375	2	74,625	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</

Completed as Promised

CONST-5-96 SHF-FLAT SHEET: 3,000" Radius, 1,000" Border, White on Blue:
(Road) D; (Improvements) D; (Fall 2021) D;
Table of letter and object lifts.

R	0	17,125	23,125	28,750	34,375	40,000	45,625	51,250	56,875	62,500	68,125	73,750	79,375	85,000	90,625	96,250	101,875	107,500	113,125	118,750	124,375	130,000	135,625	141,250	146,875	152,500	158,125	163,750	169,375	175,000	180,625	186,250	191,875	197,500	203,125	208,750	214,375	220,000	225,625	231,250	236,875	242,500	248,125	253,750	259,375	265,000	270,625	276,250</
---	---	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	-----------



W020-2

18



E05-2a

29



MO4-8a

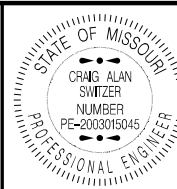
52



SPECIAL SHF-FLAT SHEET FLUORESCENT;
6,000" Radius, 1,000" Border, Black on, Orange;
Interstate 49 12,000" C; "EXIT 18 B", E Mod; "CLOSED", E Mod; "USE EXIT 13", E Mod;
"PRIGMOR AVE", E Mod;
Table of letter and object lefts

6,000	E	X	I	T	I	B	B
36,000	43.625	52.125	55.375	69.375	73.750	83.625	
6,000	C	L	O	S	E	D	
39,875	47.875	55,500	63,750	72,250	79,750		
1,000							
10,500	S	E	E	X	I	T	3
19,000	27.375	41.250	48.875	57,500	60,750	74.625	79.125
P	R	I	G	M	O	R	A
14,500	22.875	26,500	35,000	44,375	53,125	66,500	75,000
84,000							

NOTES:
NOT-TO-SCALE
SEE TRAFFIC CONTROL SHEET 3
FOR DETOUR SIGN LEGEND



THIS SHEET HAS BEEN
SIGNED, SEALED, AND DATED
ELECTRONICALLY.

DATE PREPARED
8/9/2021

ROUTE
I 49

STATE
MO

DISTRICT
SW

SHEET NO.
9

COUNTY
JASPER

JOB NO.
J713530

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

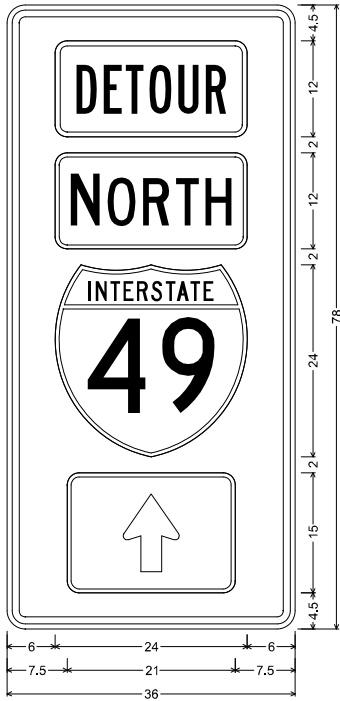
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

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

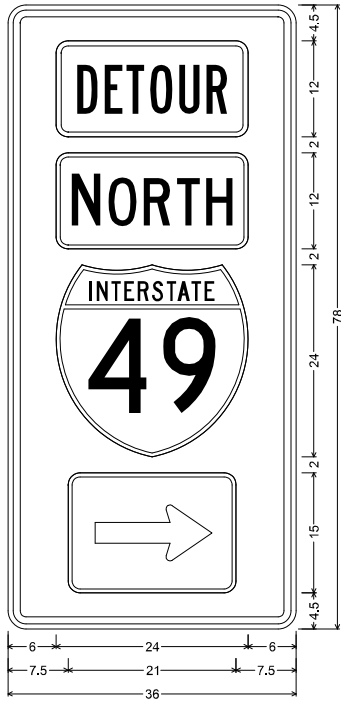
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 49 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

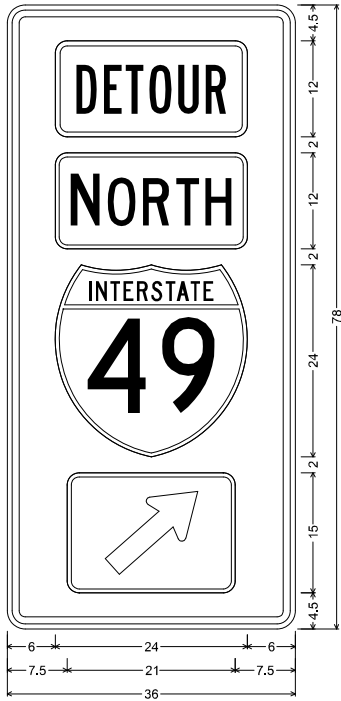
50A



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 49 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

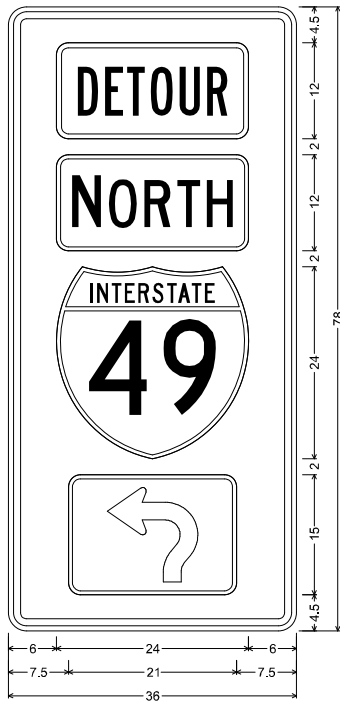
50B



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 49 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

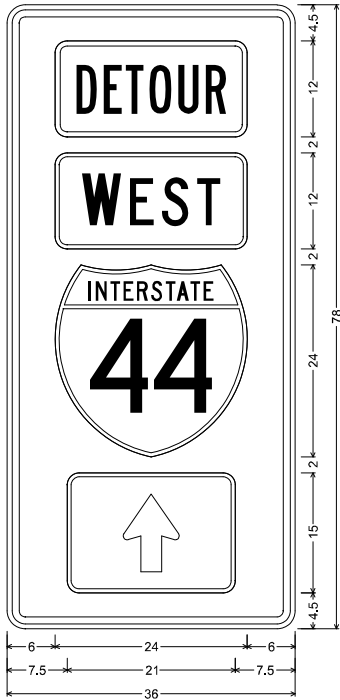
50C



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 49 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

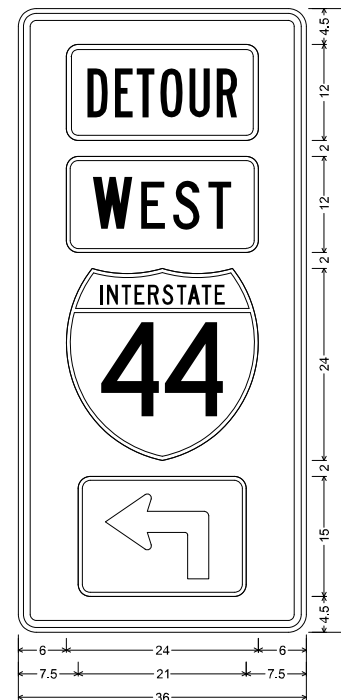
50D



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

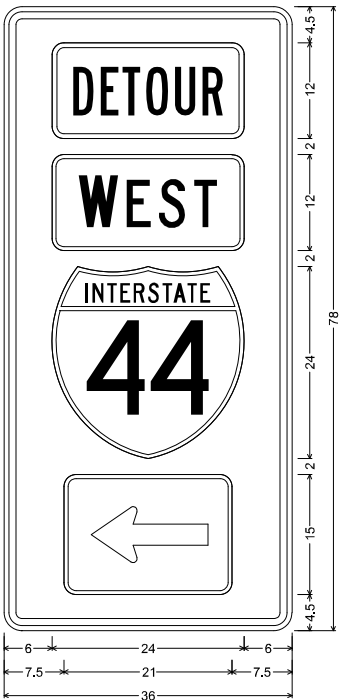
51A



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

51B



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

51C

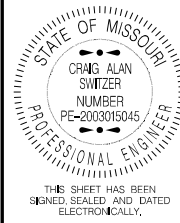


MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6.000
6.000
6.000
7.500

51D

TO BE WORKED WITH TRAFFIC CONTROL SHEET 2

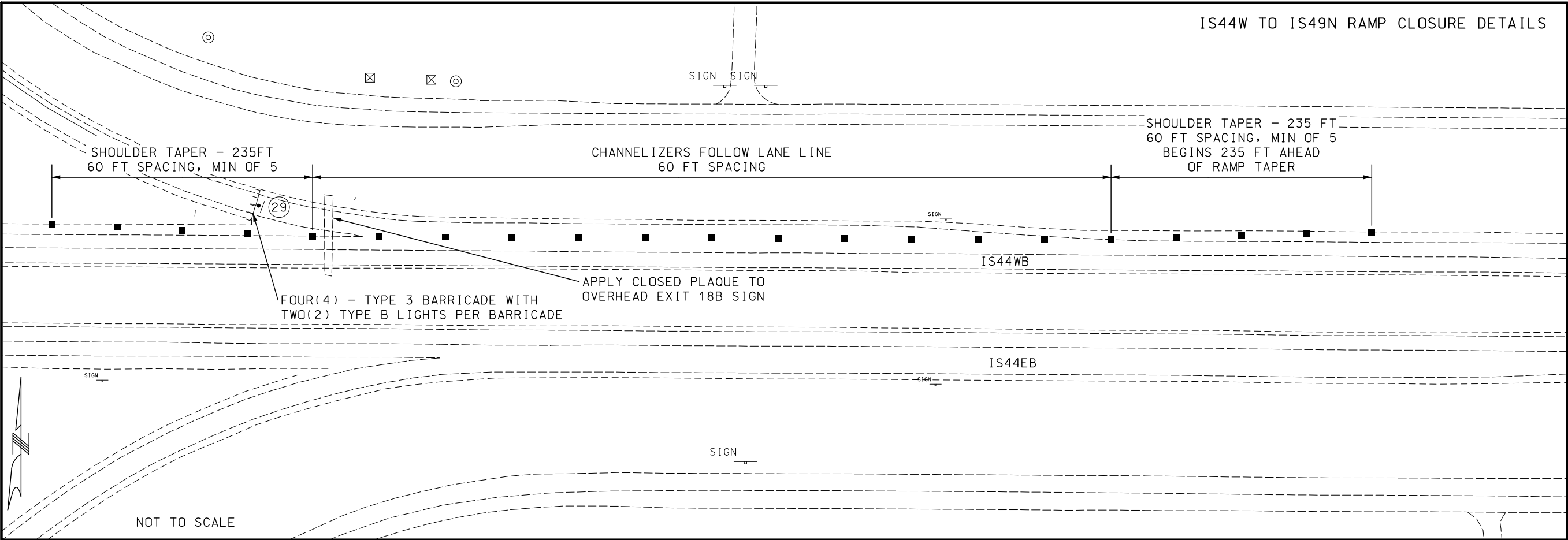


DATE PREPARED 8/9/2021	
ROUTE I 49	STATE MO
DISTRICT SW	SHEET NO. 10
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



IS44W TO IS49N RAMP CLOSURE DETAILS

STATE OF MISSOURI

CRAIG ALAN SWITZER

NUMBER PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED		8/9/2021	
ROUTE	I 49	STATE	MO
DISTRICT	SW	SHEET NO.	11
COUNTY			
JASPER			
JOB NO.			
J713530			
CONTRACT ID.			

PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

ROAD CLOSED AHEAD

48" x 48"

5

ROAD WORK AHEAD

48" x 48"

4

EXIT CLOSED

E05-2a
48" x 36"

29

4.5" x 4.5"

87"

96"

4.5"

4.5"

15"

24"

CLOSED

SPECIAL SHF-FLAT SHEET FLUORESCENT;
1,500" Radius, No border, Orange;
"CLOSED" Black, E Mod;
Table of letter and object lefts

C	L	O	S	E	D
4.500	19.625	33.875	49.500	65.250	79.500

NOTES:
NOT TO SCALE
SEE SHEET 9 FOR SIGN 49

WD20-3
48" x 48"

5

WD20-1
48" x 48"

4

RAMP TAPER

1000 FT

1500 FT

2640 FT

IS44WB

IS44EB

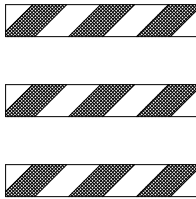
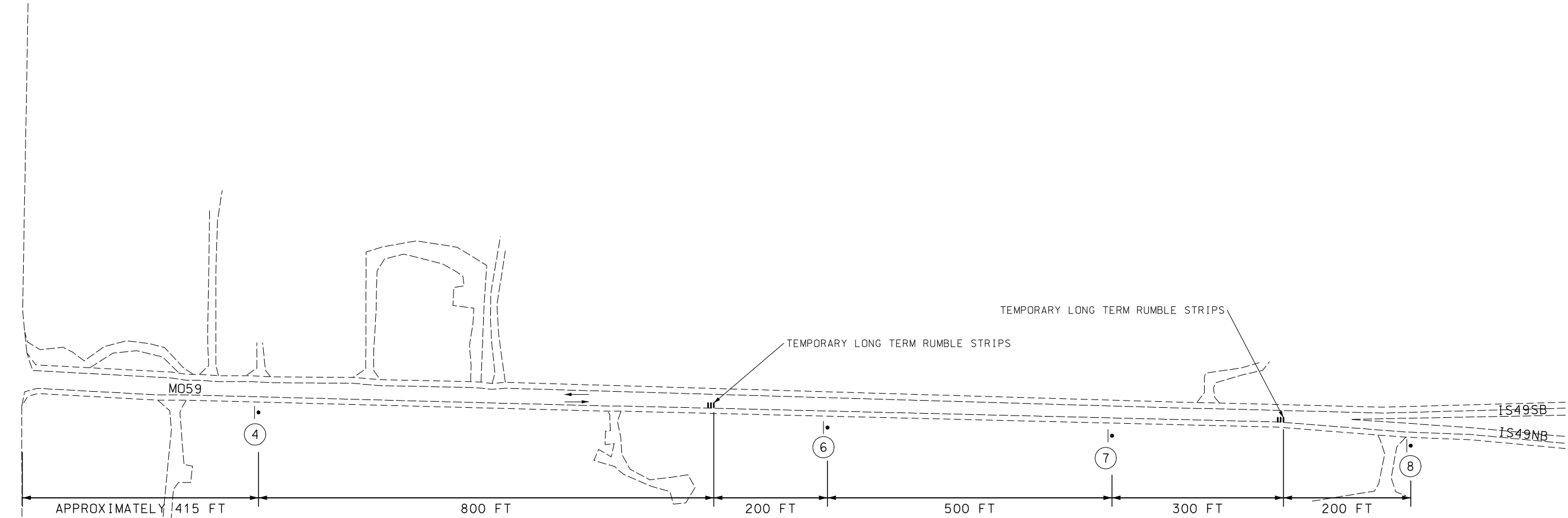
TRAFFIC CONTROL
SHEET 4 OF 7

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

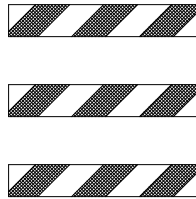
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

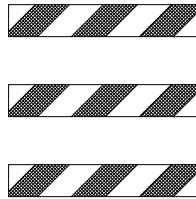
NOTES:
NOT TO SCALE
SOUTH OF INTERCHANGE IN FIDELITY



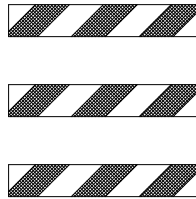
W020-1
48" x 48"
4



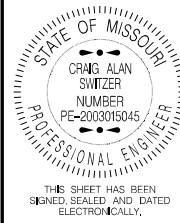
W020-5
48" x 48"
6



W03-5
48" x 48"
7



W020-6a
48" x 48"
8



DATE PREPARED 8/9/2021	
ROUTE 149	STATE MO
DISTRICT SW	SHEET NO. 12
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

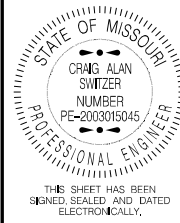
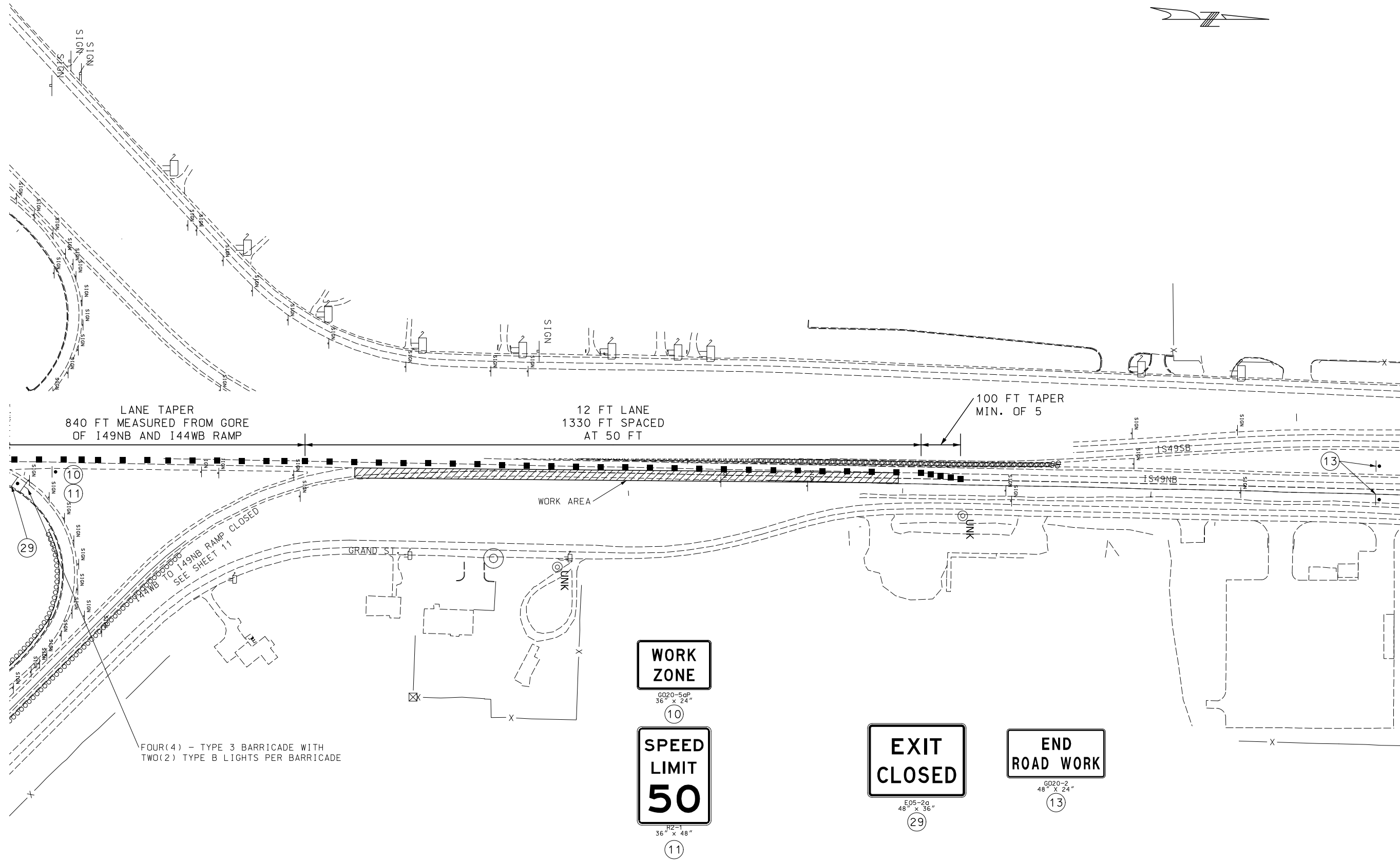
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:
NOT TO SCALE
SIGN 13 PLACED 1000 FT BEYOND FINAL CHANNELIZER



DATE PREPARED 8/9/2021	
ROUTE I49	STATE MO
DISTRICT SW	SHEET NO. 14
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

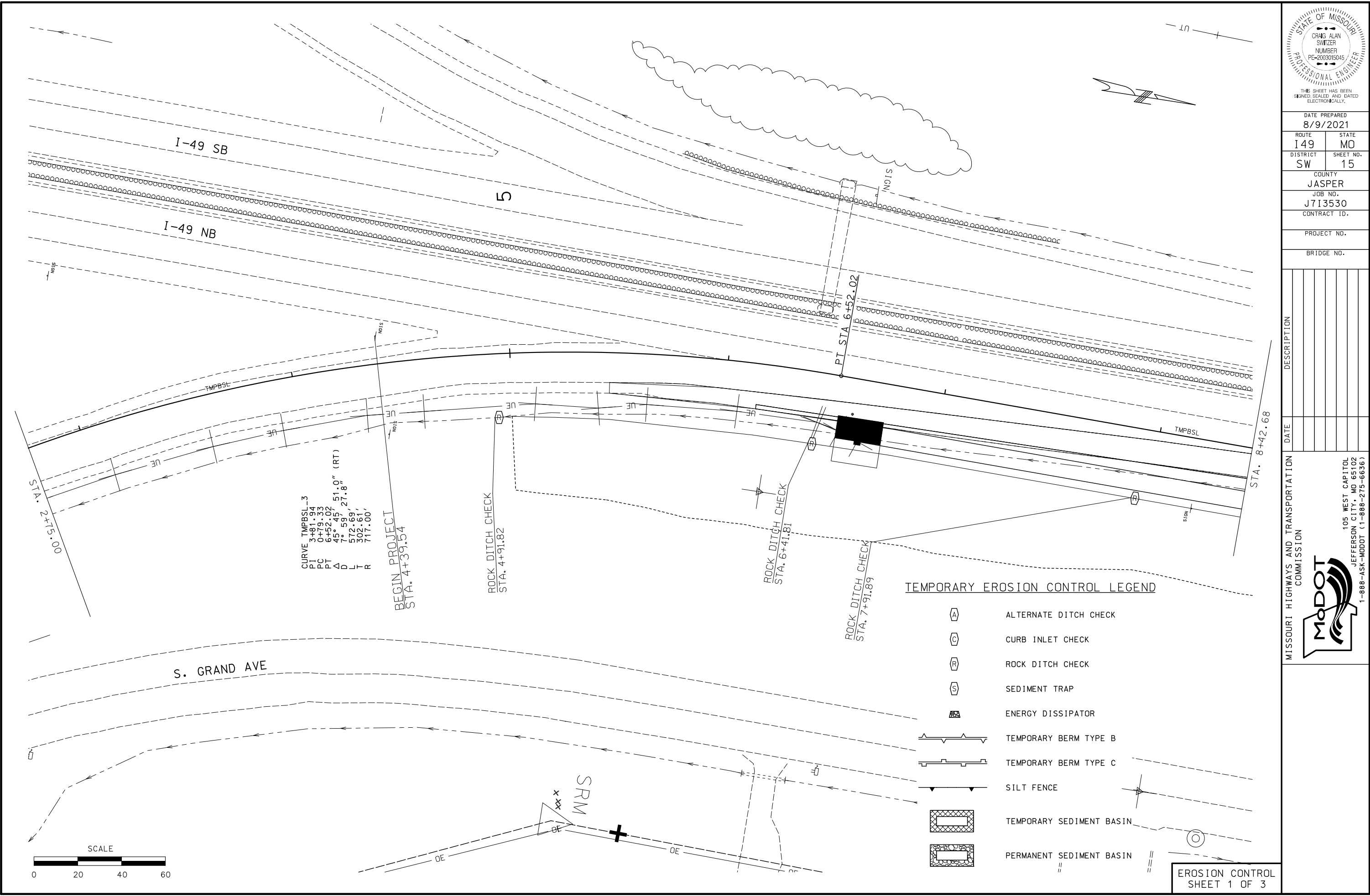
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CURVE TMPBSL_3
PI 3+81.94
PC 0+79.33
PT 6+52.02
PT 45° 45' 51.0" (RT)
D 7° 59' 27.8"
L 572.69'
T 302.61'
R 717.00'

BEGIN PROJECT
STA. 4+39.54

ROCK DITCH CHECK
STA. 4+91.82

ROCK DITCH CHECK
STA. 6+41.81

ROCK DITCH CHECK
STA. 7+91.89

TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- ROCK DITCH CHECK
- SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

EROSION CONTROL
SHEET 1 OF 3

STATE OF MISSOURI
CRAG ALAN SWITZER
NUMBER
PE-2003015045
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN
SIGNED, SEALED, AND DATED
ELECTRONICALLY.

DATE PREPARED
8/9/2021

ROUTE
I 49

STATE
MO

DISTRICT
SW

SHEET NO.
15

COUNTY
JASPER

JOB NO.
J713530

CONTRACT ID.

PROJECT NO.

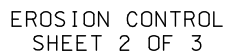
BRIDGE NO.

DATE	DESCRIPTION

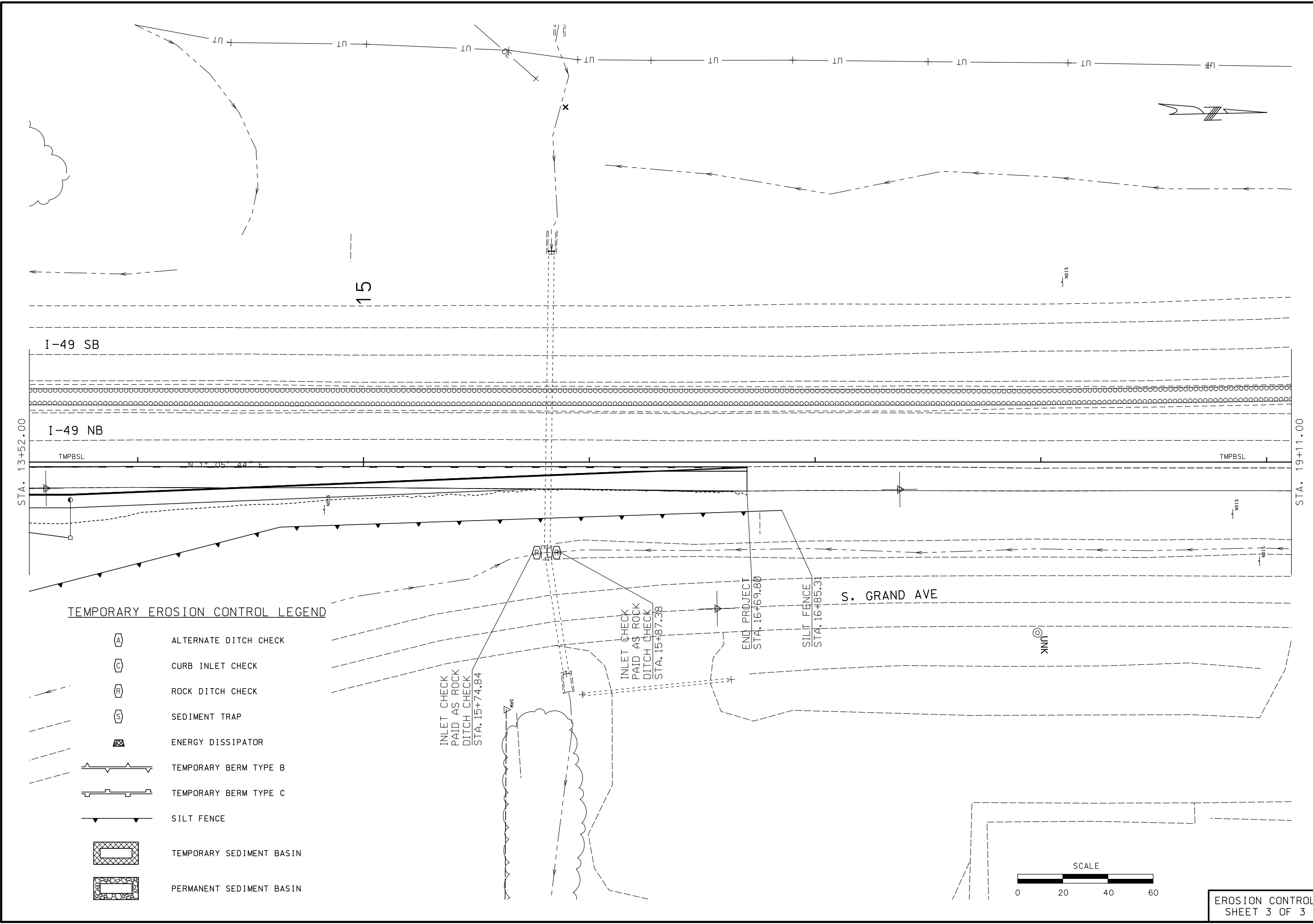
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- ROCK DITCH CHECK
- SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

STATE OF MISSOURI

CRAG ALAN SWITZER

NUMBER

PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED, AND DATED
ELECTRONICALLY.

DATE PREPARED
8/9/2021

ROUTE
I 49

STATE
MO

DISTRICT
SW

SHEET NO.
17

COUNTY
JASPER

JOB NO.
J713530

CONTRACT ID.

PROJECT NO.

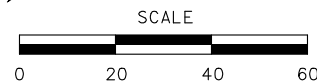
BRIDGE NO.

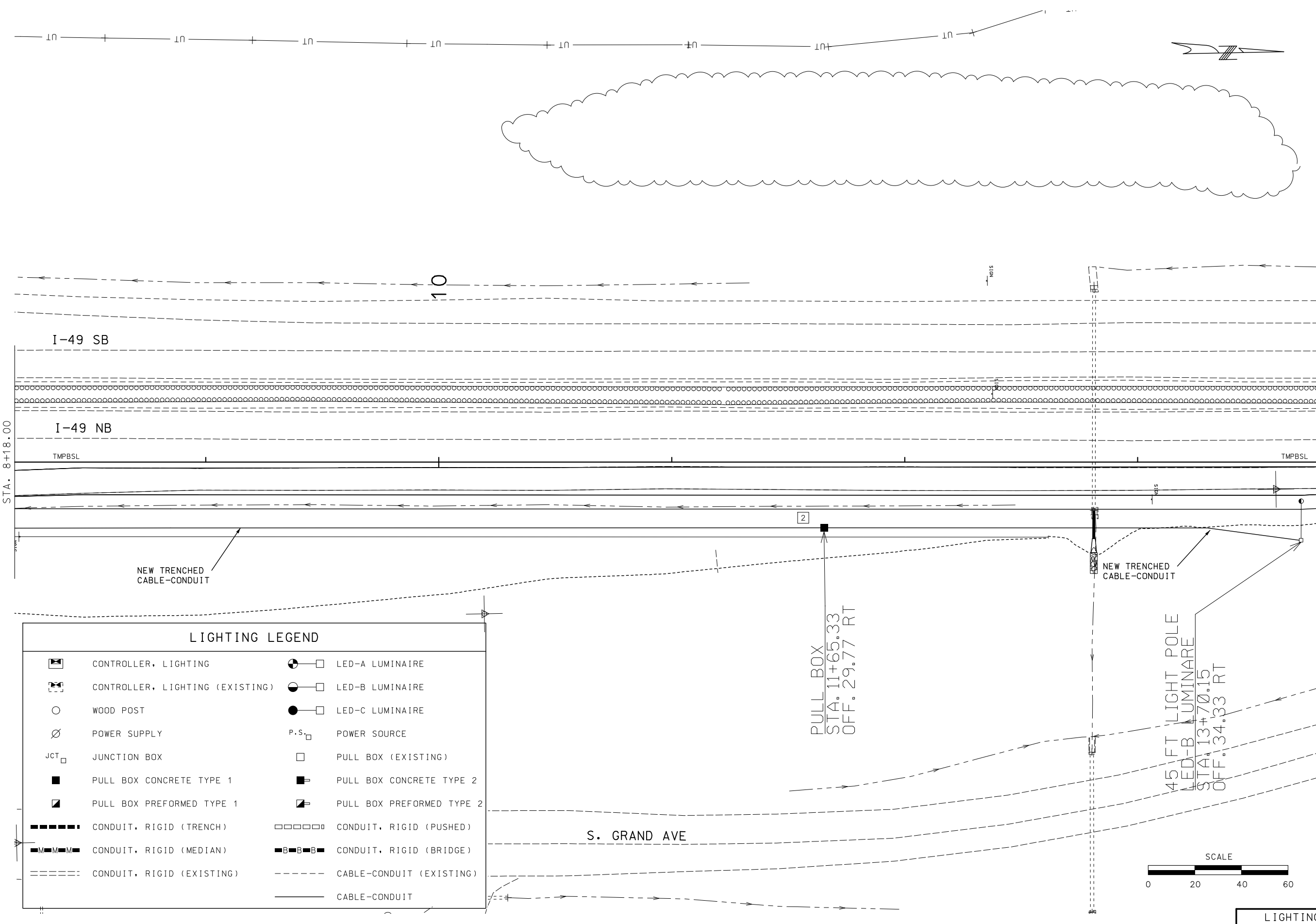
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

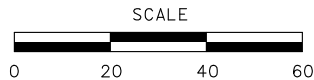
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

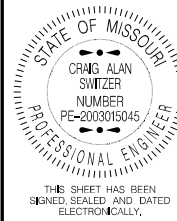
[illegible]



LIGHTING LEGEND			
	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		POWER SOURCE
	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT



LIGHTING
SHEET 2 OF 3



DATE PREPARED 8/9/2021	
ROUTE I 49	STATE MO
DISTRICT SW	SHEET NO. 19
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	

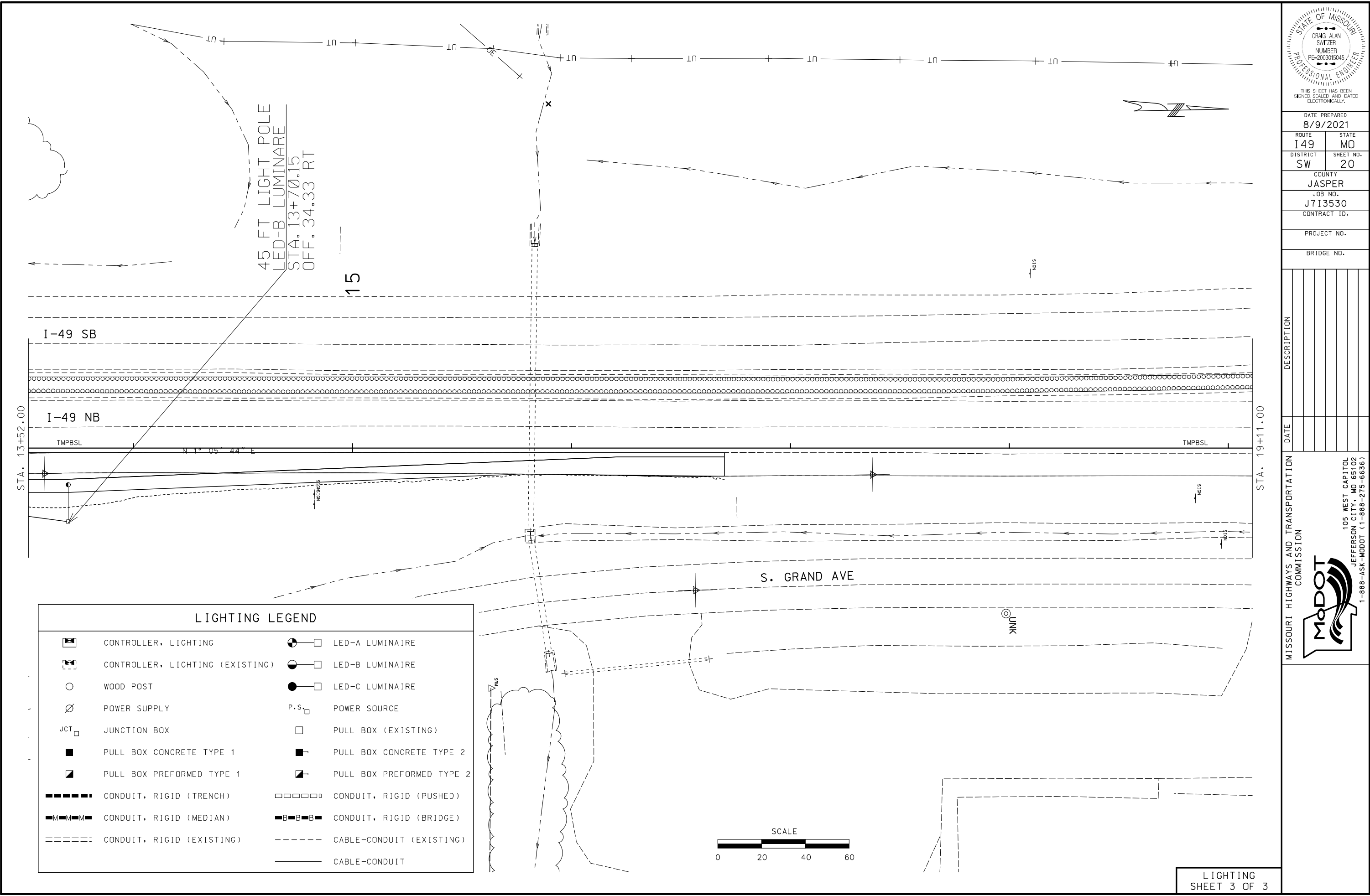
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

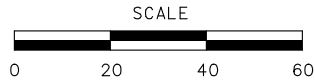
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



LIGHTING LEGEND			
	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		POWER SOURCE
	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT



STATE OF MISSOURI

CRAIG ALAN SWITZER

NUMBER

PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED, AND DATED
ELECTRONICALLY.

DATE PREPARED
8/9/2021

ROUTE
I 49

DISTRICT
SW

STATE
MO

SHEET NO.
20

COUNTY
JASPER

JOB NO.
J713530

CONTRACT ID.

PROJECT NO.

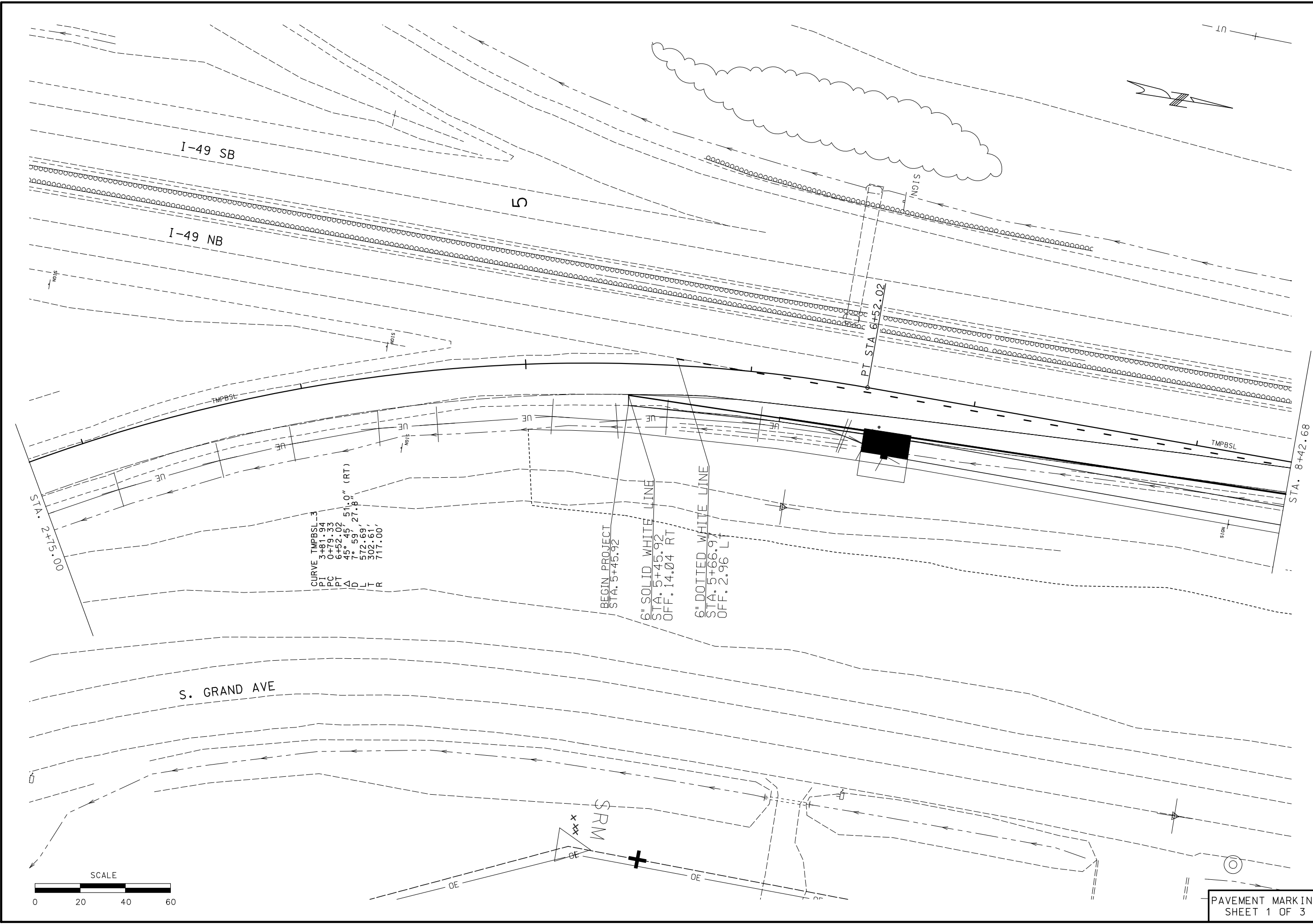
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI

CRAG ALAN SWITZER

NUMBER PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2021

ROUTE
I 49

STATE
MO

DISTRICT
SW

SHEET NO.
21

COUNTY
JASPER

JOB NO.
J713530

CONTRACT ID.

PROJECT NO.

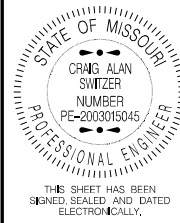
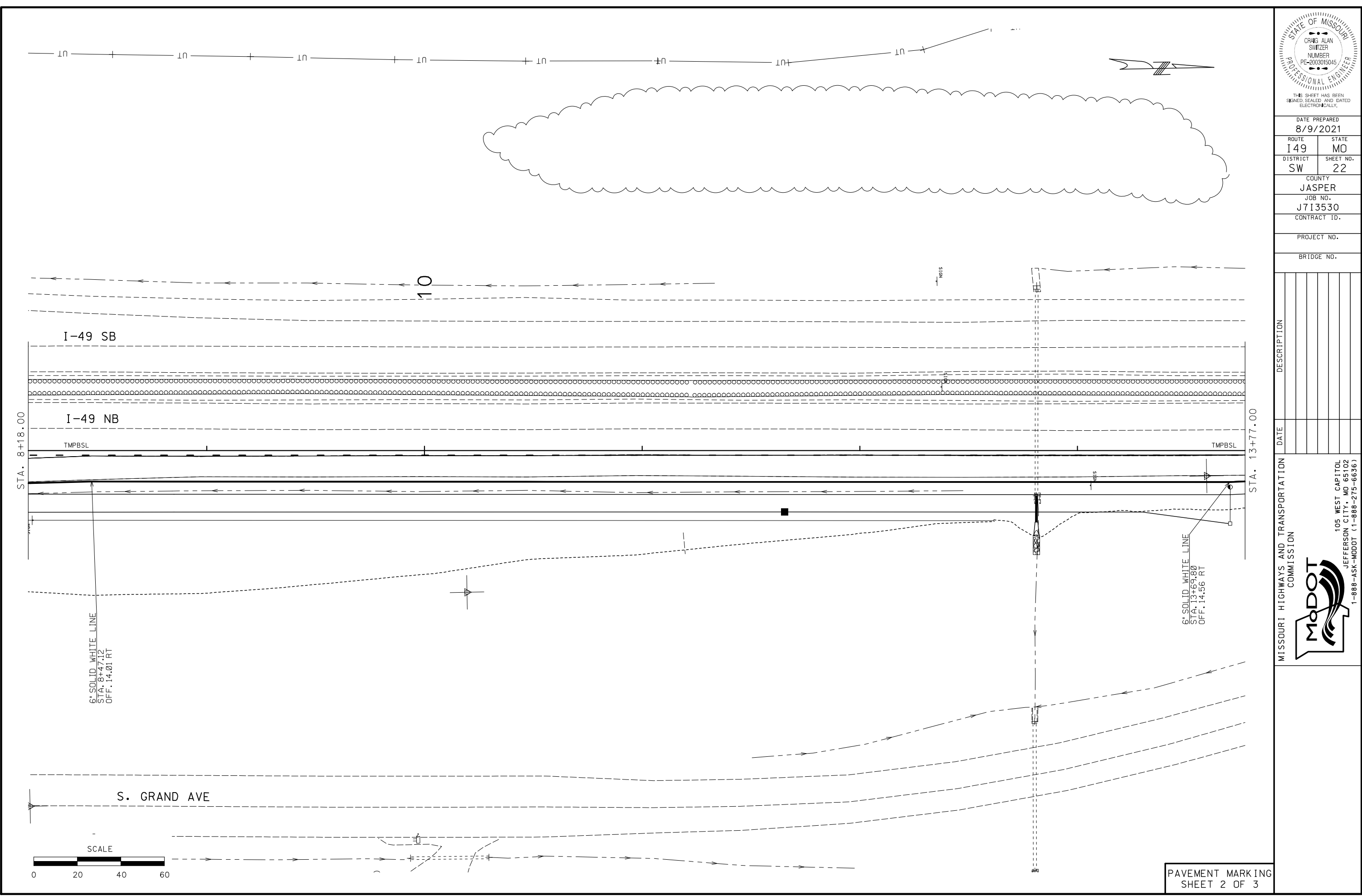
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED 8/9/2021	
ROUTE I 49	STATE MO
DISTRICT SW	SHEET NO. 22
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

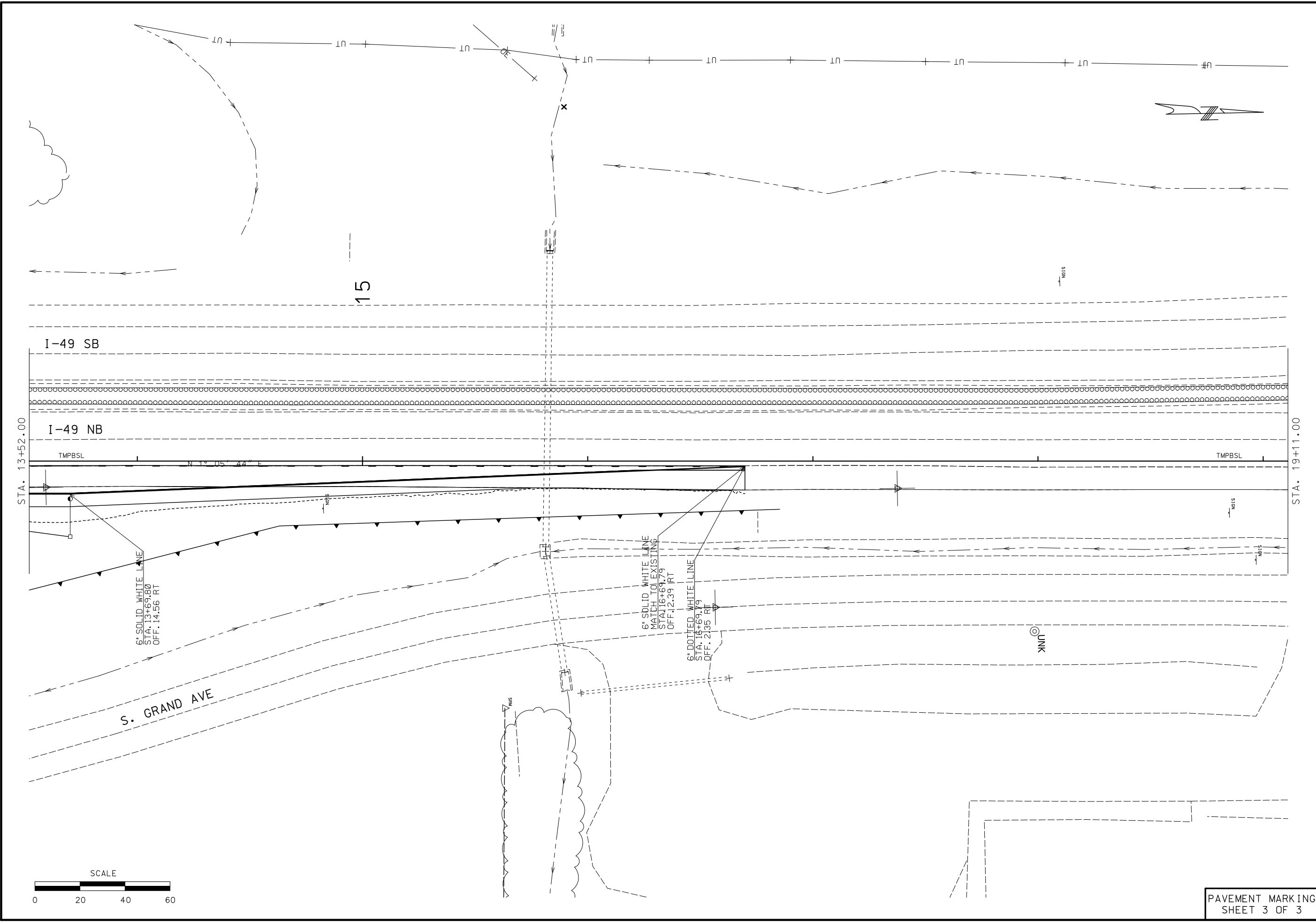
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PAVEMENT MARKING
SHEET 3 OF 3

STATE OF MISSOURI

CRAIG ALAN SWITZER

NUMBER PE-2003015045

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2021

ROUTE
I 49

DISTRICT
SW

STATE
MO

SHEET NO.
23

COUNTY
JASPER

JOB NO.
J713530

CONTRACT ID.

PROJECT NO.

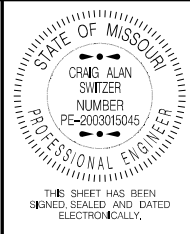
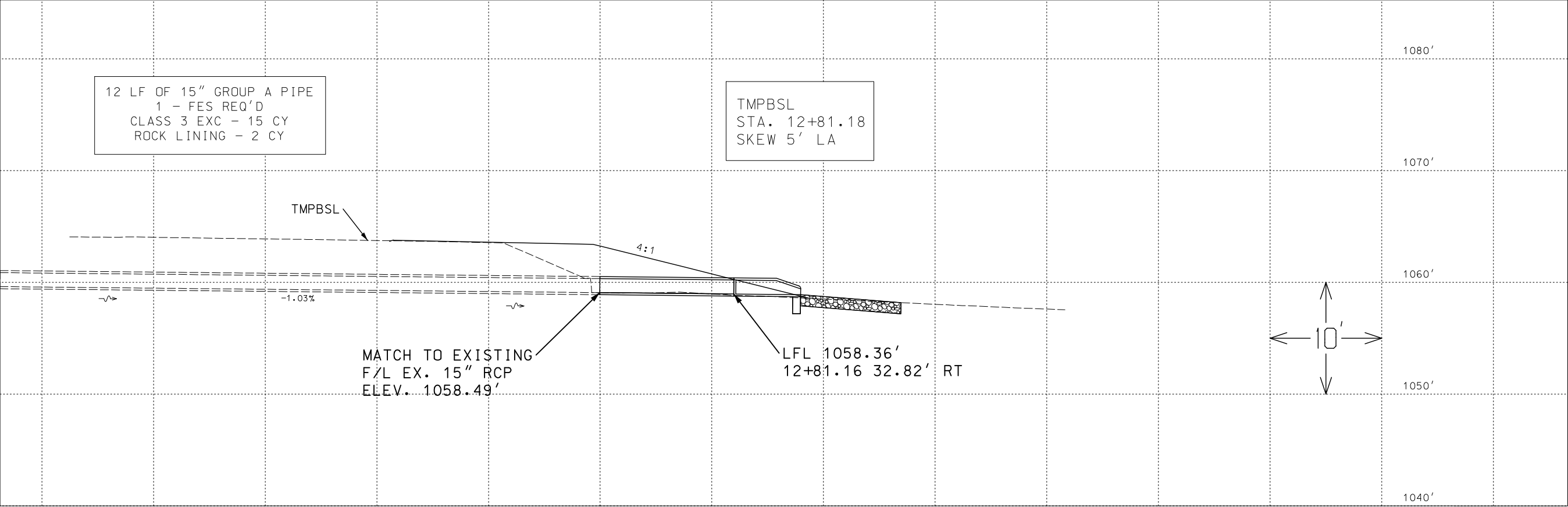
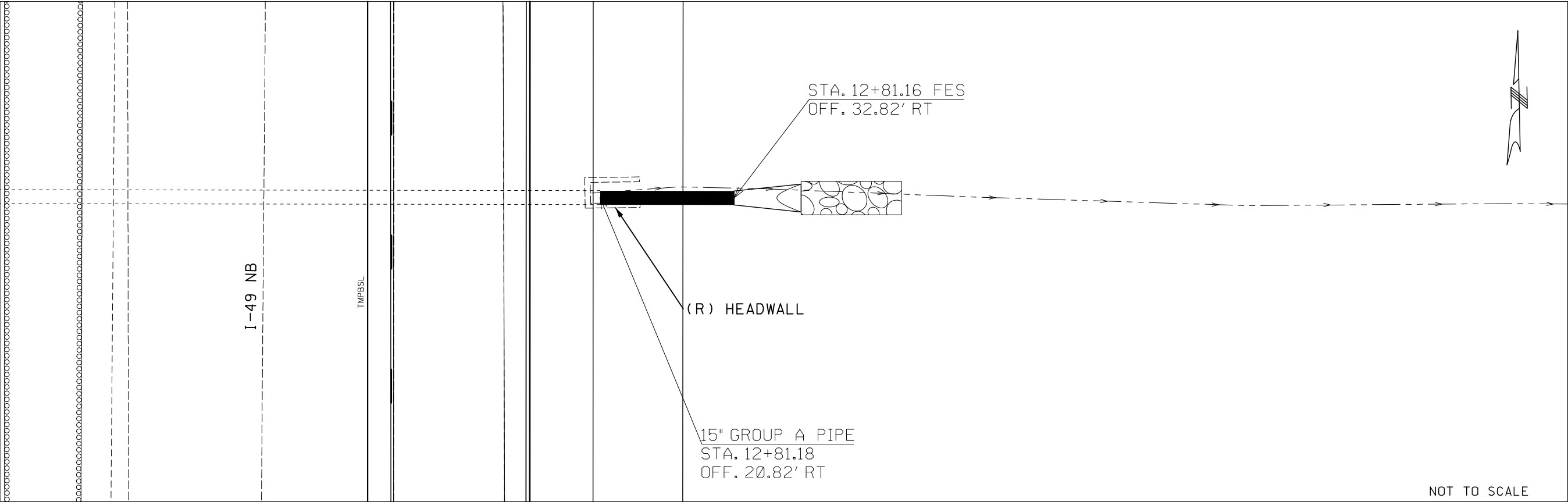
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED 8/9/2021	
ROUTE I-49	STATE MO
DISTRICT SW	SHEET NO. 24
COUNTY JASPER	
JOB NO. J713530	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESIGN DESIGNATION

A.A.D.T. - 2022 = 10,544
A.A.D.T. - 2042 = 17,650
D.H.V. = 7.56%
T = 17.45%
V = 45 M.P.H.
D (E/W) = 51.9% / 48.1%

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

NO NEW R/W REQUIRED

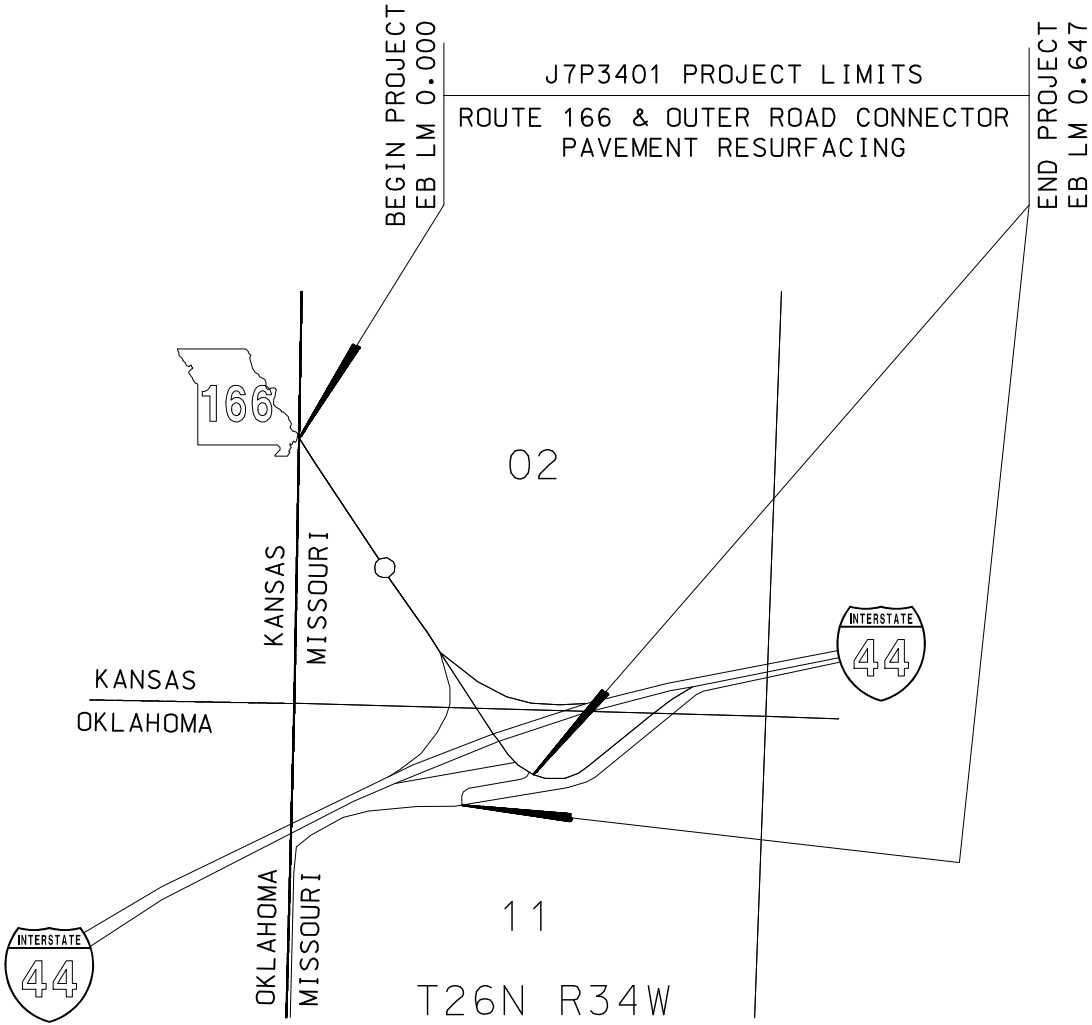
CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

NEWTON COUNTY

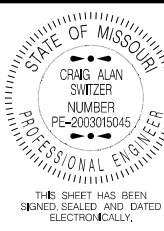


NOT TO SCALE

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

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (6 SHEETS)---	2
QUANTITIES (QU) (2 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4
TRAFFIC CONTROL SHEETS (TC)-----	5-7
PAVEMENT MARKING (PM)-----	8



DATE PREPARED	8/9/2021
ROUTE	166
STATE	MO
DISTRICT	SW
SHEET NO.	1
COUNTY	NEWTON
JOB NO.	J7P3401
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

LENGTH OF PROJECT

LOG MILES FROM 2020 ARAN

ROUTE 166	
BEGINNING OF PROJECT	EB LM 0.000
END OF PROJECT	EB LM 0.647
APPARENT LENGTH	3417 FEET

OUTER ROAD CONNECTOR	
BEGINNING OF PROJECT	EB LM 0.003
END OF PROJECT	EB LM 0.108
APPARENT LENGTH	554 FEET
EQUATIONS AND EXCEPTIONS:	NONE

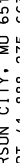
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	3971 FEET
STATE LENGTH	0.752 MILES

FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0.0 ACRES



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

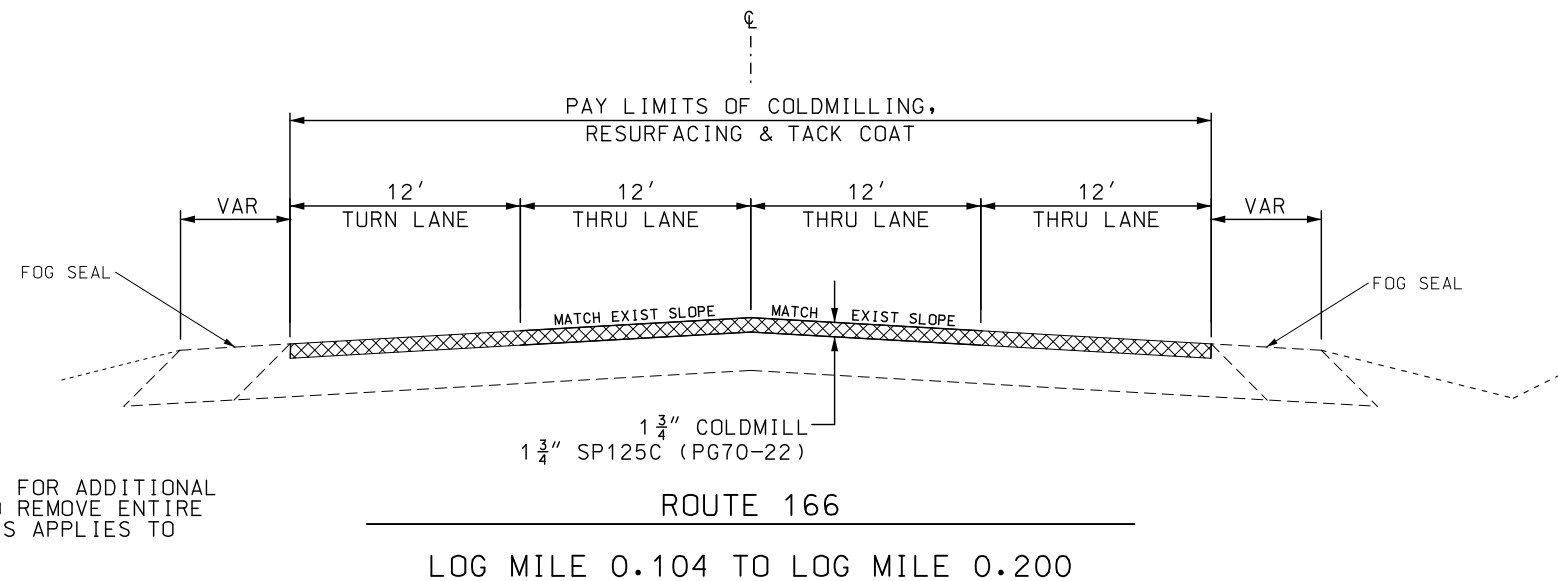
BRIDGE NO.



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

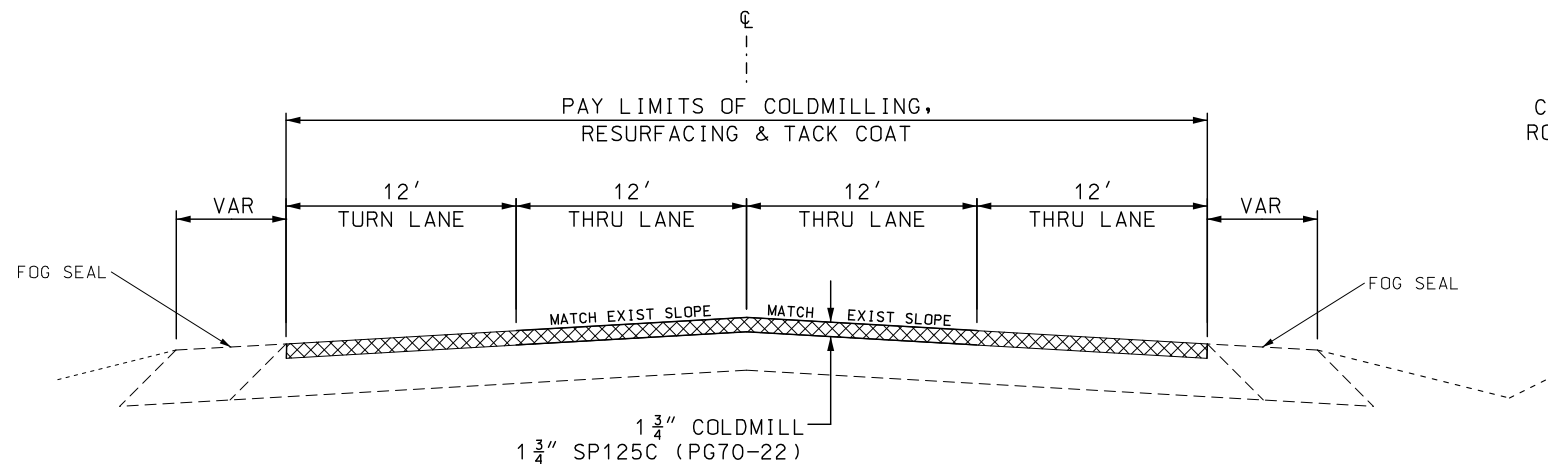
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

--	--



NO S.E. CORRECTION

ASPHALT FACTORS		
	<u>COMBINED FACTOR</u>	<u>% AC</u>
SP125C (PG76-22)	1.995 TONS/CY	6.3
TACK COAT		
MILLING		0.10 GAL/SY
FOG SEAL		
SHOULDER		0.10 GAL/SY
APPLY SHOULDER FOG SEAL: 0.2 GAL/SY AT 50% DILUTION		

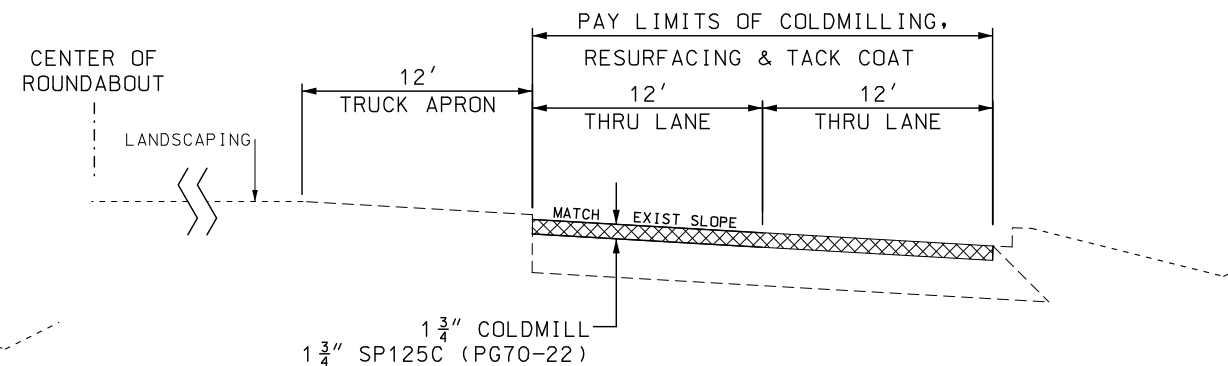


WB DOWNSTREAM BLVD

LOG MILE 0.072 TO LOG MILE 0.094

EB GREENWOOD DRIVE

LOG MILE 0.060 TO LOG MILE 0.122



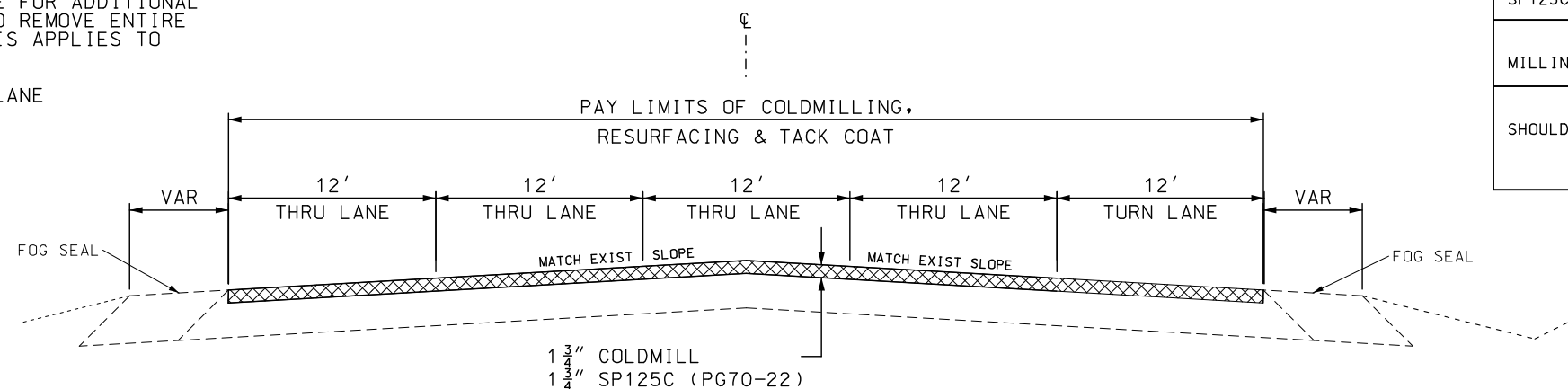
ROUTE 166

LOG MILE 0.200 TO LOG MILE 0.290

NOTE: NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

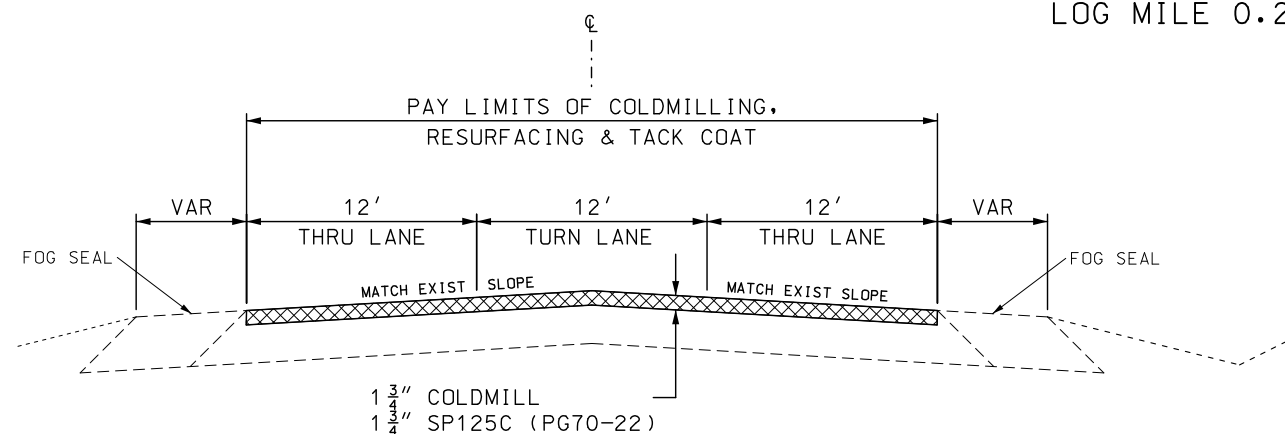
SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION



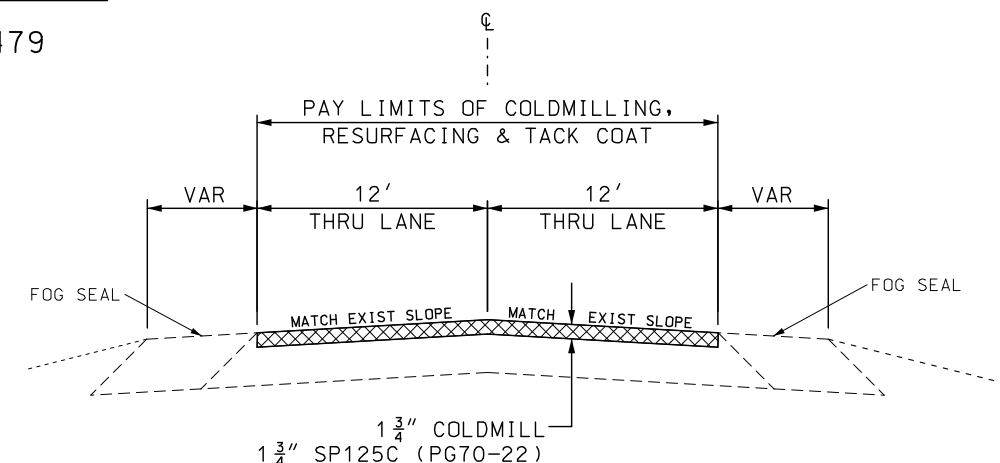
ROUTE 166

LOG MILE 0.290 TO LOG MILE 0.479



ROUTE 166

LOG MILE 0.479 TO LOG MILE 0.575

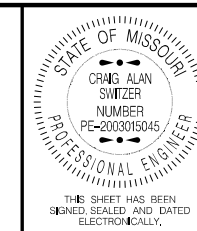


ROUTE 166

LOG MILE 0.575 TO LOG MILE 0.647

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
SP125C (PG76-22)	1.995 TONS/CY	6.3
TACK COAT		
MILLING		0.10 GAL/SY
FOG SEAL		
SHOULDER		0.10 GAL/SY
APPLY SHOULDER FOG SEAL: 0.2 GAL/SY AT 50% DILLUTION		

TYPICAL SECTIONS
SHEET 2 OF 6



DATE PREPARED
10/6/2021

ROUTE 166 STATE MO
DISTRICT SW SHEET NO. 2

COUNTY
NEWTON

JOB NO.
J7P3401
CONTRACT ID.

PROJECT NO.

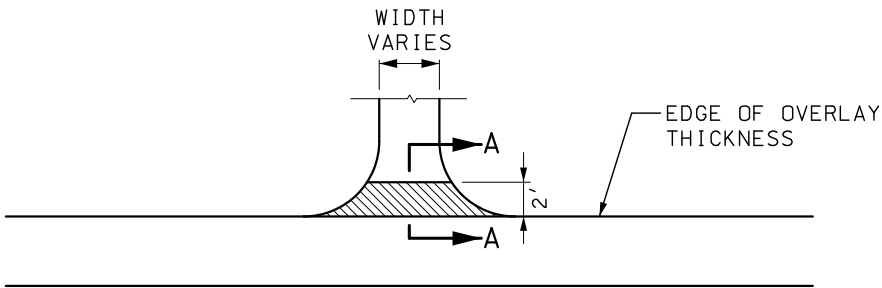
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

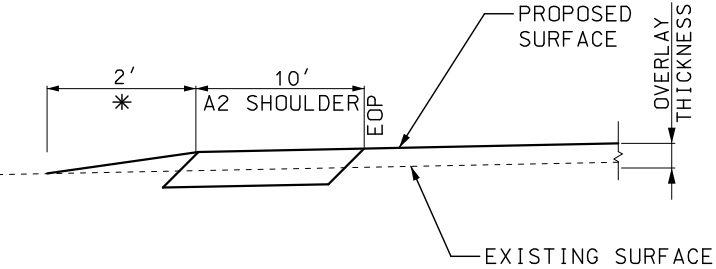
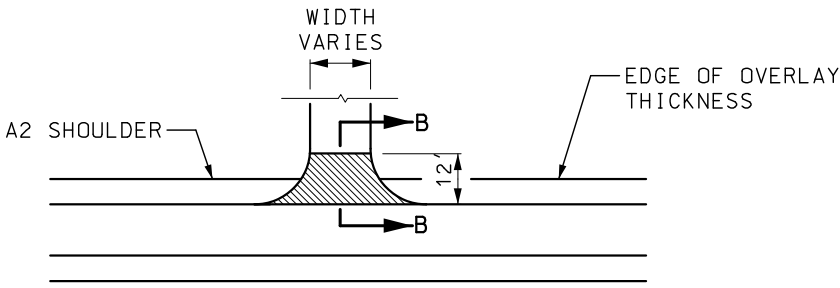
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

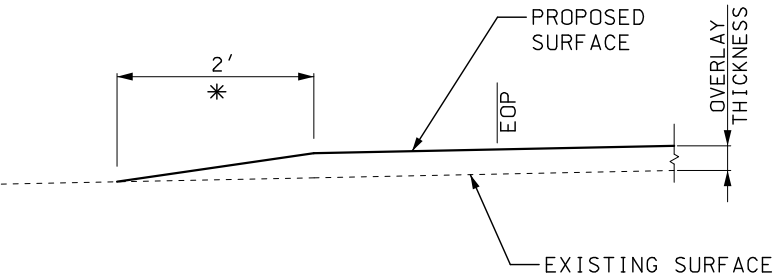


SECTION A-A
TYPICAL ENTRANCE - NO SHOULDER
(FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTE: 4 TONS GRAVEL A OR CRUSHED STONE B
CALCULATED PER ENTRANCE.
6 TONS CALCULATED PER COUNTY ROAD.



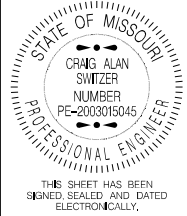
AGGREGATE & EARTH ENTRANCES



ASPHALT & CONCRETE ENTRANCES

SECTION B-B
TYPICAL ENTRANCE - EXIST/NEW SHOULDER
(FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTES: 4 TONS GRAVEL A OR CRUSHED STONE B
CALCULATED PER ENTRANCE.
6 TONS CALCULATED PER COUNTY ROAD.

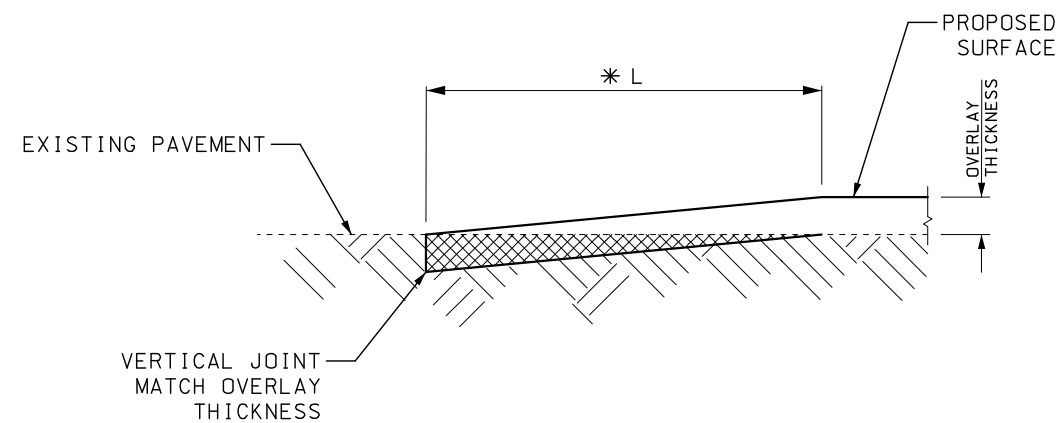


DATE PREPARED 10/5/2021	
ROUTE 166	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY NEWTON	
JOB NO. J7P3401	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

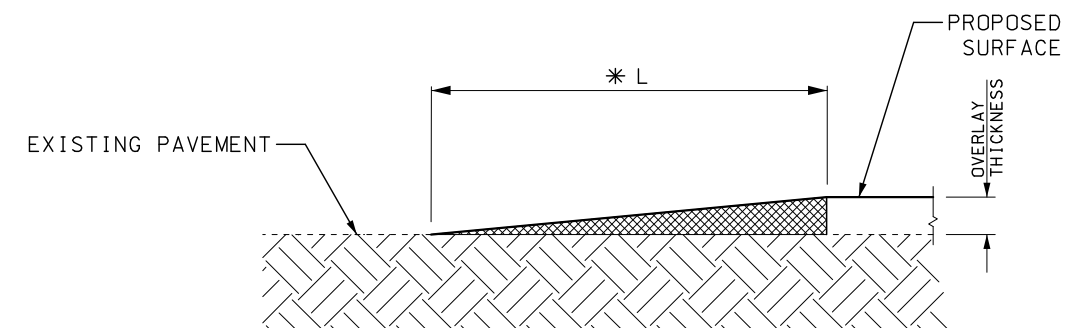
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



SURFACING REQUIREMENTS FOR
OVERLAYS AT STATE ROUTES.
SEE QUANTITY SHEETS FOR LOCATIONS.

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1 "	20.0'
1 1/4 "	30.0'
1 1/2 "	40.0'
1 3/4 "	50.0'



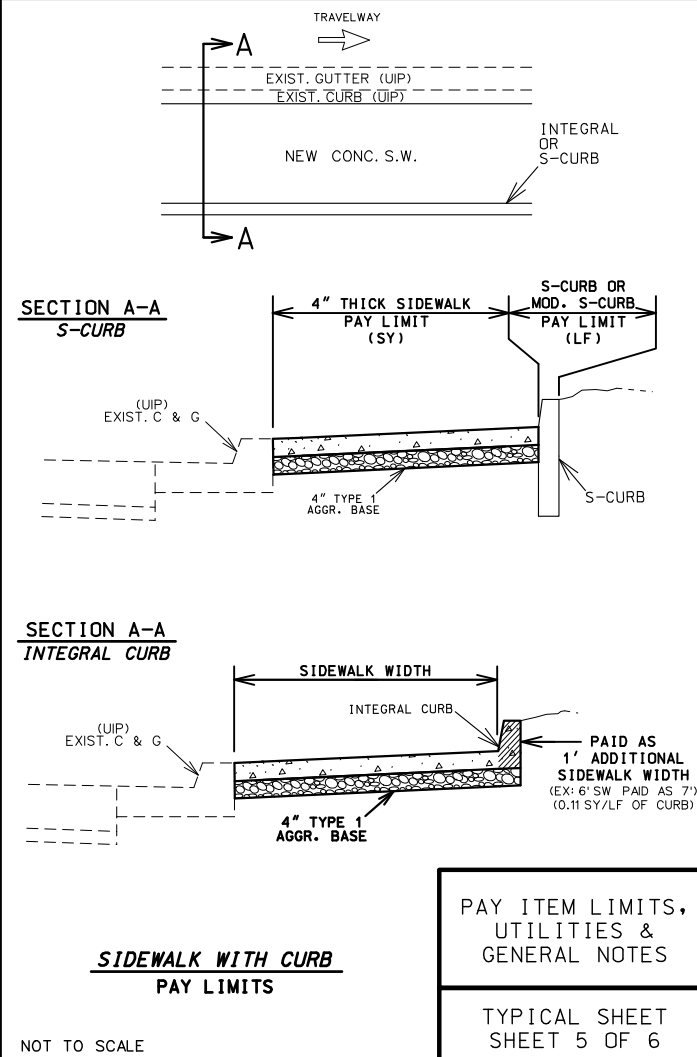
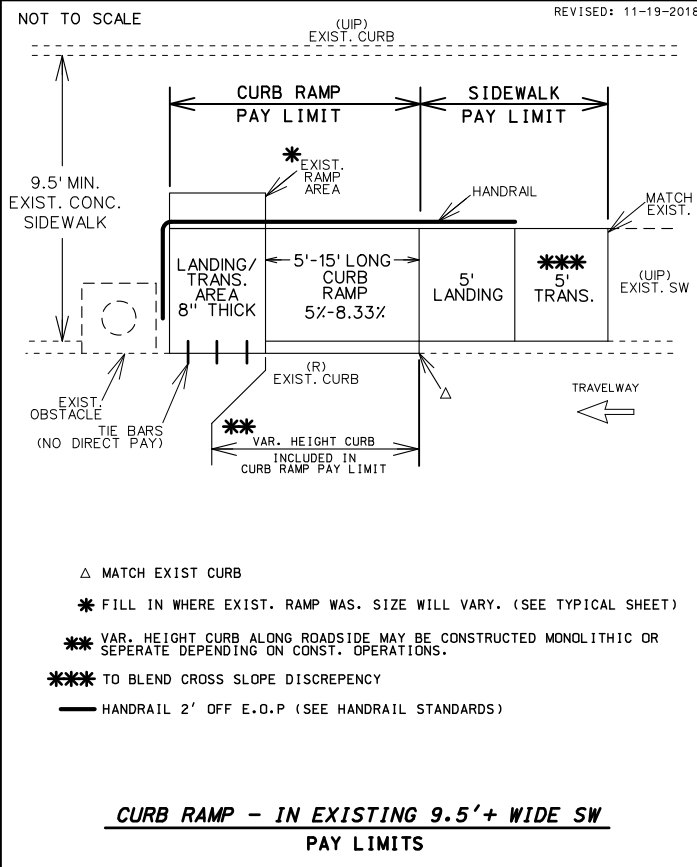
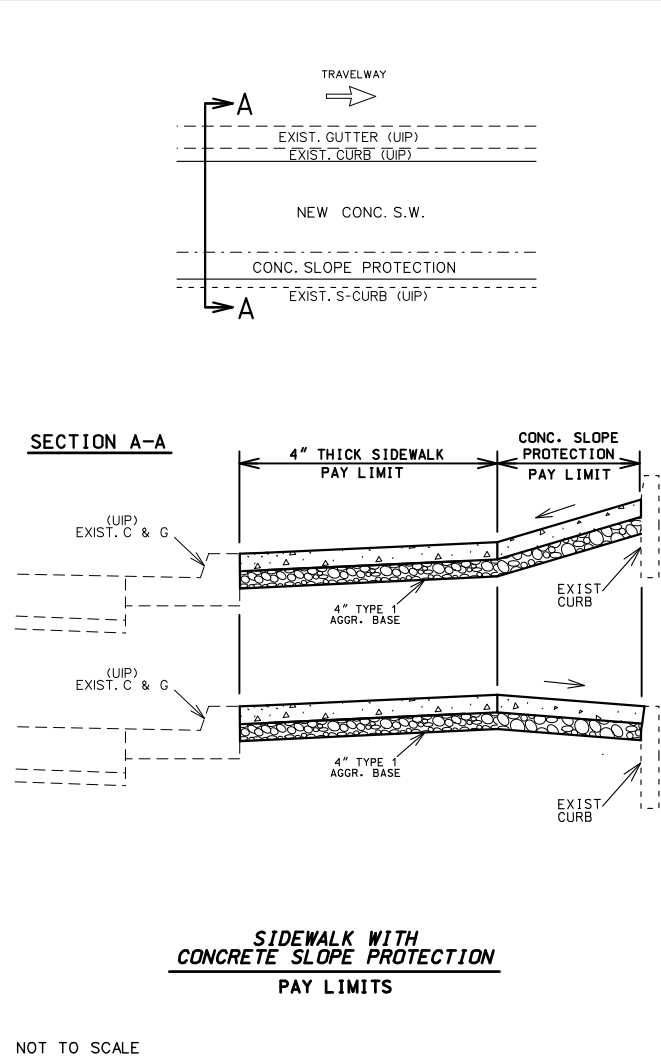
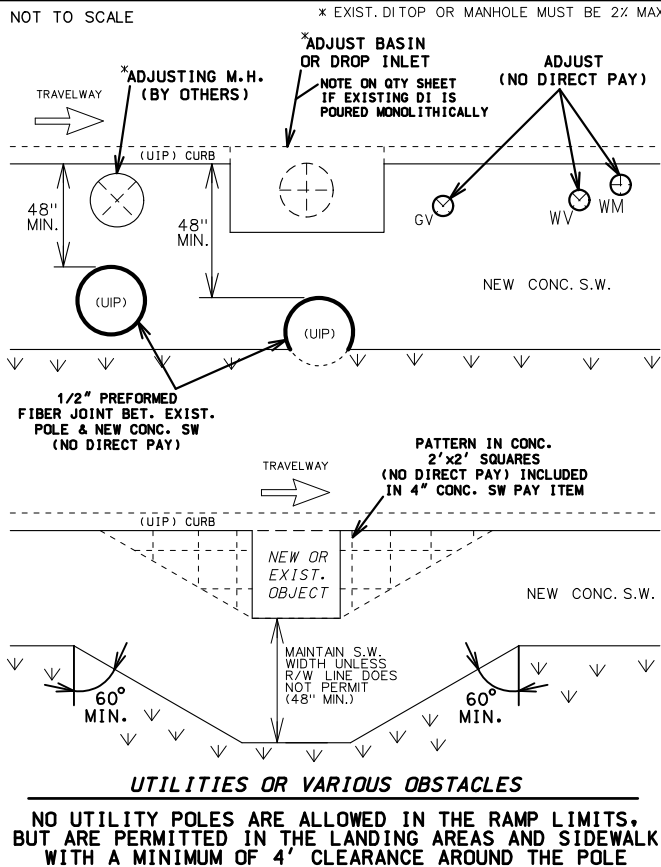
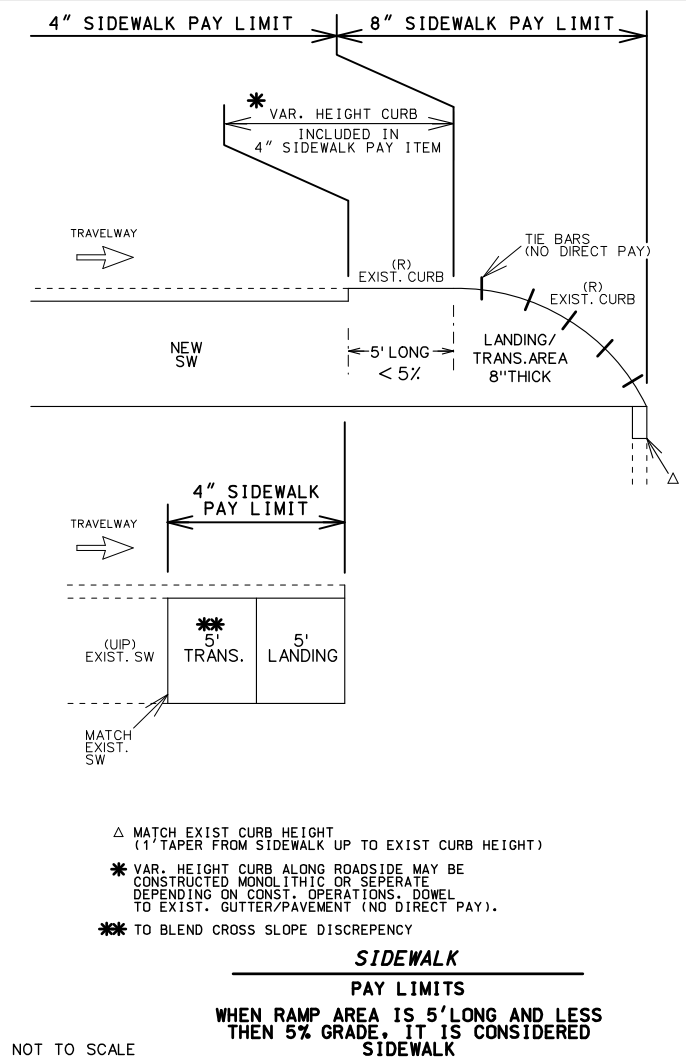
SURFACING REQUIREMENTS FOR OVERLAYS
AT EXISTING COLD MIX STATE ROUTES.
SEE QUANTITY SHEETS FOR LOCATIONS.

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1"	20.0'
1 1/4"	30.0'
1 1/2"	40.0'
1 3/4"	50.0'

[illegible]

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

- [illegible]

[illegible]

PAVEMENT														
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	WEST SIDE SHOULDER WIDTH (FT)	EB TURN LANE WIDTH (FT)	MAINLINE WIDTH (FT)	WB TURN LANE WIDTH (FT)	EAST SIDE SHOULDER WIDTH (FT)	COLDMILLING 3" THICK OR LESS (SQYD)	TACK 0.1 GAL/SY (GAL)	1.75"SP125C (PG70-22) 1.995 TONS/CY (TONS)	SHOULDER FOG SEAL (GAL) **	TYPE A2 SHOULDER (SY)	TYPE 1 AGG BASE (SY)	REMARKS
ROUTE 166 PAVEMENT RESURFACING														
0.000	0.058	306	10		24		10	816.0	81.6	79.14	68.0	680.0	680.0	ROUTE 166 TWO LANE
0.058	0.083	132	10 - 6		24 - 36		10	440.0	44.0	42.67	26.4			THREE LANE TRANSITION
0.083	0.104	111	6		36		10	444.0	44.4	43.06	19.7			ROUTE 166 THREE LANE
0.104	0.120	84	6	0 - 12	36		10	392.0	39.2	38.02	14.9			ROUTE 166 THREE LANE + TURN LANE TRANSITION
0.120	0.200	422	6	12	36		10	2250.7	225.1	218.27	75.0			ROUTE 166 THREE LANE + TURN LANE
ROUNDBOUT QUANTITIES														
0.200	0.290	475	VAR	VAR	VAR	VAR	VAR	7352.0	735.2	712.99				ROUNDBOUT PAVEMENT
WB DOWNSTREAM BOULEVARD QUANTITIES														
0.072	0.094	116			48			618.7	61.9	60.00				DOWNSTREAM BLVD PAVEMENT
EB GREENWOOD DRIVE QUANTITIES														
0.060	0.122	327			48			1744.0	174.4	169.13				GREENWOOD DRIVE PAVEMENT
CONTINUED ROUTE 166 PAVEMENT RESURFACING														
0.290	0.389	523	8	12	36	12	8	3486.7	348.7	338.14	93.0			ROUTE 166 FIVE LANE
0.389	0.479	475	VAR	VAR	VAR	VAR	VAR	3793.0	379.3	367.84	141.4			ROUTE 166 RAMPS AND TRANSITION TO TWO LANE
0.479	0.519	211	8		36		10	844.0	84.4	81.85	42.2			ROUTE 166 TWO LANE AND CENTER TURN LANE
0.519	0.575	296	6		36 - 24		6	986.7	98.7	95.69	39.5			ROUTE 166 TWO LANE AND CENTER TRANSITION
0.575	0.647	380	10		24		8	1013.3	101.3	98.27	76.0			ROUTE 166 TWO LANE
ROUTE 166 TO OUTER ROAD 44 CONNECTOR														
0.003	0.108	554			26			1600.4	160.0	155.21				OUTER ROAD CONNECTOR
								TOTAL	25781.5	2578.2	2500.28	596.1	680.0	680.0
**APPLY SHOULDER FOG SEAL 0.2 GAL/SY AT 50% DILLUTION								USE	25782	2578	2500.3	596	680	680

ADA QUANTITIES															
LOG MILE	LOCATION	LT RT	TRUNC DOMES	CURB RAMP					SIDEWALK		4" TYPE 1 AGGR	ADA LINEAR GRADING	SODDING	REMARKS	
							TYPE			WIDTH					4" THICK
			SF	LENGTH	WIDTH	PERP	PARALLEL	SY	FT	SY	SY	LF	SY		
0.097	EB	RT	10.0	8	5		40.0	4.4	5	6.1	10.5	21.0	7.5	SIDEWALK 1	
0.109	EB	RT	10.0	8	5		40.0	4.4	5	6.1	10.5	21.0	7.5	SIDEWALK 2	
0.113	EB	LT	10.0											SIDEWALK 3	
0.103	WB	LT	10.0	8	5		40.0	4.4	5	6.1	10.5	21.0	7.5	SIDEWALK 4	
0.113	WB	LT	10.0	8	5		40.0	4.4	5	6.1	10.5	21.0	7.5	SIDEWALK 5	
0.115	WB	LT	10.0											SIDEWALK 6	
LOG MILES REFER TO EB DOWNSTREAM BLVD		TOTALS	60.0						17.6		24.4	42.0	84	30	
		USE	60						17.6		24.4	42.0	84	30	

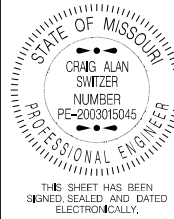
MGS GUARDRAIL							
BEGIN LOG MILE	END LOG MILE	LOCATION	REMOVALS (FT)	SHAPING SLOPES CLASS III (100 FT)	MASH END TERMINAL (EA)	MGS GUARDRAIL 8' POSTS 6' 3" SPACING (LF)	REMARKS
0.061	0.081	RT	106	1.1	2	12.5	EASTBOUND SIGN PROTECTION
0.331	0.351	RT	106	1.1	2	12.5	EASTBOUND SIGN PROTECTION
0.370	0.350	LT	106	1.1	2	12.5	WESTBOUND SIGN PROTECTION
0.541	0.585	RT	232	2.3	2	137.5	EASTBOUND BRIDGE PROTECTION
0.541	0.590	LT	259	2.6	2	162.5	WESTBOUND BRIDGE PROTECTION
TOTAL			809	8.2	10	337.5	
USE			SEE REMOVALS	8	10	338	
REMOVAL OF IMPROVEMENTS PAID AS LUMP SUM, BUT SHOWN IN LINEAR FEET FOR CLARITY							
EROSION CONTROL AND SEEDING INCIDENTAL TO SHAPING SLOPES CLASS III							

PAVEMENT MARKING												
BEGIN LOG MILE	END LOG MILE	4" WHITE TYPE P (LF)	4" YELLOW TYPE P (LF)	24" WHITE PREFORMED (LF)	24" YELLOW PREFORMED (LF)	STRAIGHT ARROW (EA)	LT/RT ARROW (EA)	STRT/LT/RT ARROW (EA)	"ONLY" THERMO LETTERING (EA)	PREFORMED 30" MIDBLOCK (EA)	YEILD LINE TRIANGLES (EA)	REMARKS
0.000	0.647	13234.0	7142.0	863.9	130.0	5	14	10	3	16	70.0	
	TOTAL	13234.0	7142.0	863.9	130.0	5	14	10	3	16	70	
	USE	13234	7142	864	130	5	14	10	3	16	70	
4" WHITE COLUMN INCLUDES QUANTITY FOR BOTH INTERMITTANT CENTERLINE STRIPE AND SOLID EDGE OF PAVEMENT STRIPE.												

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM
REMOVAL OF IMPROVEMENTS
REMARKS
809 LF GUARDRAIL
93 SY SIDEWALK
1 LUMP SUM
MOBILIZATION
1 LUMP SUM
TEMPORARY PAVEMENT MARKING PAINT
NO DIRECT PAY

EROSION CONTROL					
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	SILT FENCE (LF)	SEDIMENT REMOVAL (CY)	REMARKS
0.097	0.113	84	142.0	1.4	EB RAMP FROM I-44 TO WELCOME CENTER
0.103	0.115	63	153.0	1.5	WB RAMP FROM WELCOME CENTER TO I-44
TOTAL			295.0	2.9	
USE			295	3	

SUMMARY OF QUANTITIES
SHEET 1 OF 2



DATE PREPARED 10/13/2021	
ROUTE 166	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY NEWTON	
JOB NO. J7P3401	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE								

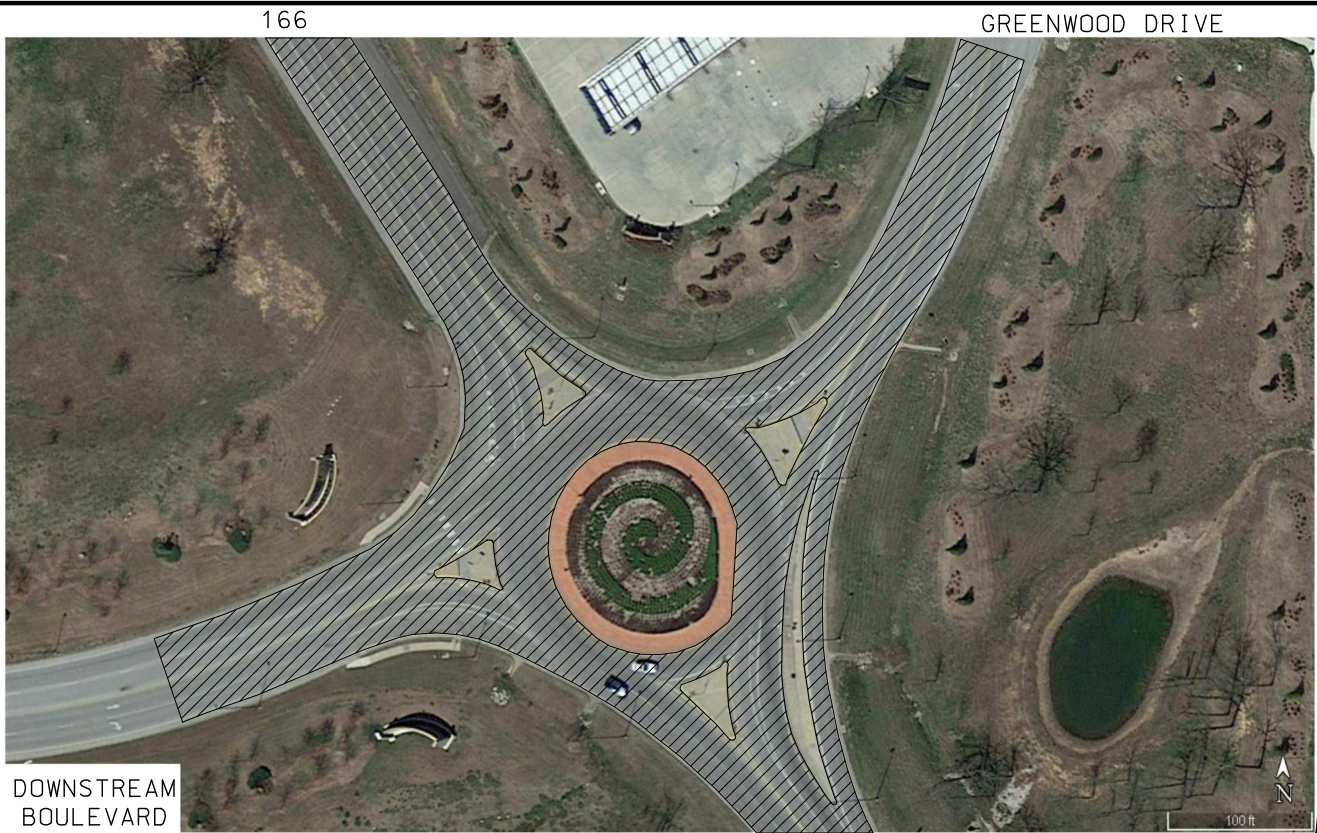
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 4-1-2021																					
SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION	SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION	ITEM NUMBER	TOTAL QTY	DESCRIPTION	
WARNING SIGNS									GUIDE SIGNS									DESCRIPTION			
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)	E05-1	36X48	12.00	1	12.00					GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)	E05-2	48X36	12.00							EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)	E05-2a	48X36	12.00							EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)	G020-1	60X24	10.00	2	20.00					ROAD WORK NEXT 1 MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)	G020-2	48X24	8.00	2	16.00					END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)	G020-4	36X18	4.50							PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)	G020-4a	42X30	8.75							PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)	G020-4a	18X12	1.50							PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	G020-5aP	36X24	6.00	2	12.00					WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	M04-8a	24X18	3.00							END DETOUR	6123000A	2	TRUCK/TRAILER MOUNTED ATTENUATOR (TMA)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	M04-9L	48X36	12.00							DETOUR (LEFT ARROW)	6161008	2	ADVANCED WARNING RAIL SYSTEM
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	M04-9R	48X36	12.00							DETOUR (RIGHT ARROW)	6161012		BUOYS (BOATS KEEP OUT)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	M04-9P	48X12	4.00							STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	M04-10L	48X18	6.00							DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	M04-10R	48X18	6.00							DETOUR (ARROW RIGHT)	6161025	100	CHANNELIZER (TRIM LINE)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYM. ON PERM. BARR.)	REGULATORY SIGNS							6161030		TYPE III MOVEABLE BARRICADE			
W01-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25							STOP	6161033		DIRECTION INDICATOR BARRICADE
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93							YIELD	6161040	2	FLASHING ARROW PANEL
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00							TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50							ALL WAY (PLAQUE)	6161051		WARNING LIGHT, TYPE A
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48.00					SPEED LIMIT 35 & 45	6161052		WARNING LIGHT, TYPE B
W03-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00							NO RIGHT TURN (SYMBOL)	6161053		WARNING LIGHT, TYPE C
W03-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00							NO LEFT TURN (SYMBOL)	6161070		TUBULAR MARKER
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00							NO TURNS	6161095		RADAR SPEED ADVISORY SYSTEM
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00							NO U-TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
W04-1aL	48X48	16.00	2	32.00				MERGE (ARROW SYMBOL)	R3-7L	30X30	6.25							LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN W/O COMM.
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)	R3-7R	30X30	6.25							RIGHT LANE MUST TURN RIGHT	6161098A		CHANGEABLE MESSAGE SIGN WITH COMM.
W05-1	48X48	16.00	2	32.00				ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00							DO NOT PASS			INTERFACE, CONTRACTOR FURNISHED/RETAINED
W05-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00							PASS WITH CARE	6161099		CHANGEABLE MESSAGE SIGN WITH COMM.
W05-5	48X48	16.00						NARROW LANES	R4-8a	36X48	12.00							KEEP LEFT (HORIZ. ARROW)		2	INTERFACE, CONTRACTOR FURNISHED/RETAINED
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48	12.00							KEEP RIGHT (HORIZ. ARROW)	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25							DO NOT ENTER	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00							WRONG WAY	6162004	4	TEMPORARY SHORT-TERM RUMBLE STRIPS
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75							ONE WAY ARROW (LEFT)	6173600D		TEMPORARY TRAFFIC BARRIER
W08-1	48X48	16.00						BUMP	R6-1R	54X18	6.75							ONE WAY ARROW (RIGHT)			CONTRACTOR FURNISHED/RETAINED
W08-2	48X48	16.00						DIP	R6-2L	24X30	5.00							ONE WAY (LEFT)	6173602B		TEMPORARY TRAFFIC BARRIER
W08-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00							ONE WAY (RIGHT)			CONTRACTOR FURNISHED/COMMISSION RETAINED
W08-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00							SIDEWALK CLOSED	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)										SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6176000B		TEMPORARY TRAFFIC BARRIER
W08-6c	48X48	16.00						TRUCK ENTRANCE	R9-11R	24X18	3.00							(ARROW RIGHT) CROSS HERE			COMMISSION FURNISHED/RETAINED
W08-7	36X36	9.00						LOOSE GRAVEL	R10-6	24X36	6.00							STOP HERE ON RED (45° ARROW)	6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL	R11-2	48X30	10.00							ROAD CLOSED			COMMISSION FURNISHED/RETAINED
W08-9	48X48	16.00						LOW SHOULDER	R11-3a	60X30	12.50							ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	6208064A		TEMPORARY RAISED PAVEMENT MARKER
W08-11	48X48	16.00						UNEVEN LANES										ROAD CLOSED TO THRU TRAFFIC	9029400		TEMPORARY TRAFFIC SIGNALS
W08-12	48X48	16.00						NO CENTER LINE	R11-4	60X30	12.50							FINE SIGN	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
W08-15	48X48	16.00						GROOVED PAVEMENT	CONST-3A	60X48	20.00							SPEEDING/PASSING (PLATE)			
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-3X	56X12	4.67										
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)	MISCELLANEOUS SIGNS							POINT OF PRESENCE					
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	CONST-5	48X36	12.00							POINT OF PRESENCE			
W10-1	42RND.	9.62						RAILROAD CROSSING	CONST-5	96X48	32.00	2	64.00					POINT OF PRESENCE			
W012-1	24X24	4.00																			



NOTE: THE ENGINEER WILL MARK THE STARTING/STOPPING POINTS ON DOWNSTREAM BLVD & GREENWOOD DRIVE. DO NOT PROCEED UNTIL DIRECTED BY ENGINEER.

ROUTE 166 ROUNDABOUT
AREA OF RESURFACING



OUTER ROAD CONNECTOR
AREA OF RESURFACING



ROUTE 166 RAMPS
AREA OF RESURFACING

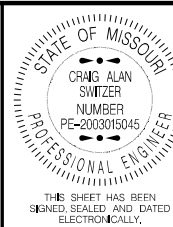


ROUTE 166 SIDEWALKS
2' X 6' TRUNCATED DOMES IN CUT-THRU & CURB RAMP 1-J

NOT TO SCALE

ANY & ALL IRREGULARITIES MAY BE UNDERRUN AND NO ADJUSTMENT TO ANY UNIT BID COST WILL BE MADE.
ALL STATIONS AND/OR LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CAN VARY AS APPROVED BY ENGINEER.
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

SPECIAL SHEET
SHEET 1 OF 1



DATE PREPARED 10/5/2021	
ROUTE 166	STATE MO
DISTRICT SW	SHEET NO. 4
COUNTY NEWTON	
JOB NO. J7P3401	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

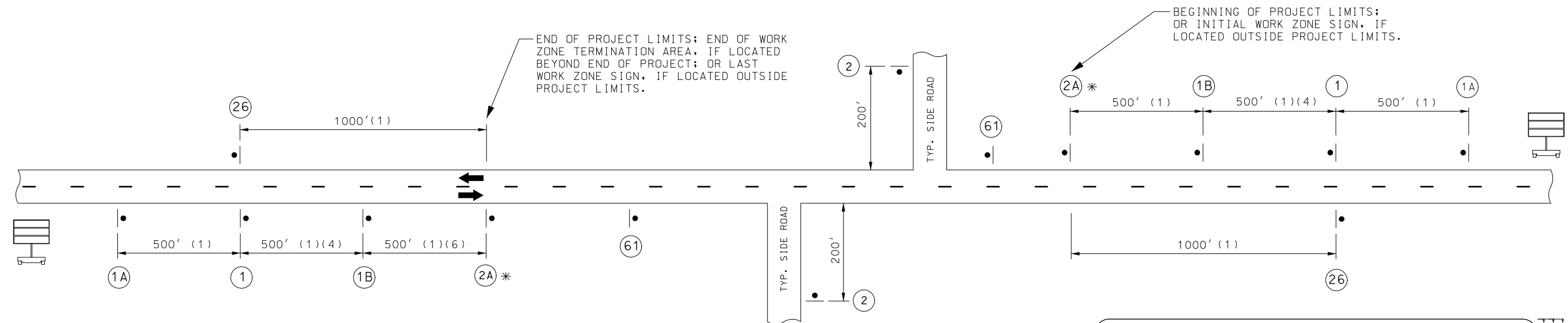
MoDOT

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

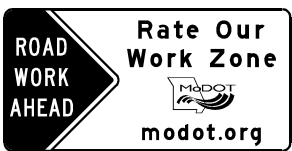
GENERAL NOTES:

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



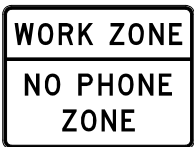
- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN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

TYPICAL BEGINNING AND END OF PROJECT



CONST-7-72 (2)

1A



CONST-8-48 (4)

1B



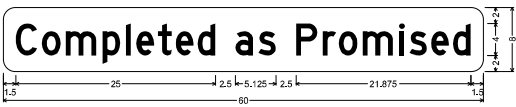
CONST-5-96

61 (3)

12	24.25	63.25	59.75	20.75
12	22.75	12	13.375	6
12	22.75	12	13.375	17.375
12	22.75	12	13.375	12.5

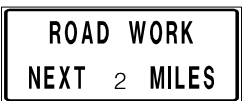
CONST-5-96 SH-FLAT SHEET: 3,000" Radius, 1,000" Border, White on Blue:
(Road) D: (Resurfacing) D: (Fall 2022) D:
Table of letter and object letters.

R	o	a	d
12,000	19,125	25,250	31,750
R	o	a	d
12,000	19,125	25,250	31,750
R	o	a	d
12,000	19,125	25,250	31,750
R	o	a	d
12,000	19,125	25,250	31,750



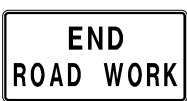
CONST-5P-60 SH-FLAT SHEET FLUORESCENT: 1,500" Radius, No border, Yellow:
(Completed as Promised) Black D: 65% spacing:
Table of letter and object letters.

C	o	m	p	t	e	d	a	s	p	r	o	m	i	s
1,500	4,875	7,875	12,375	15,375	18,625	19,375	21,500	24,250	29,000	31,875				
P	o	m	p	t	e	d	a	s	p	r	o	m	i	s
38,625	38,875	41,875	44,875	49,500	50,750	53,500	56,250							



G020-1

1



G020-2

26



W020-1

2



W020-1

2A*

2A*

2A*

2A*

2A*

2A*

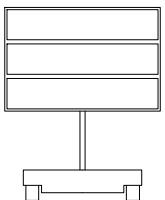
2A*

2A*

2A*

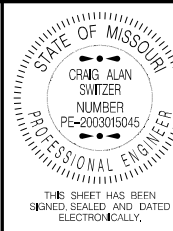
2A*

* SIGN 2A WITH AWRS MUST HAVE A FLAG ASSEMBLY AND BE GROUND OR SKID MOUNTED



CMS W/ COMM. INTERFACE

(5)



DATE PREPARED
10/5/2021

ROUTE
166

STATE
MO

DISTRICT
SW

SHEET NO.
5

COUNTY
NEWTON

JOB NO.
J7P3401

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

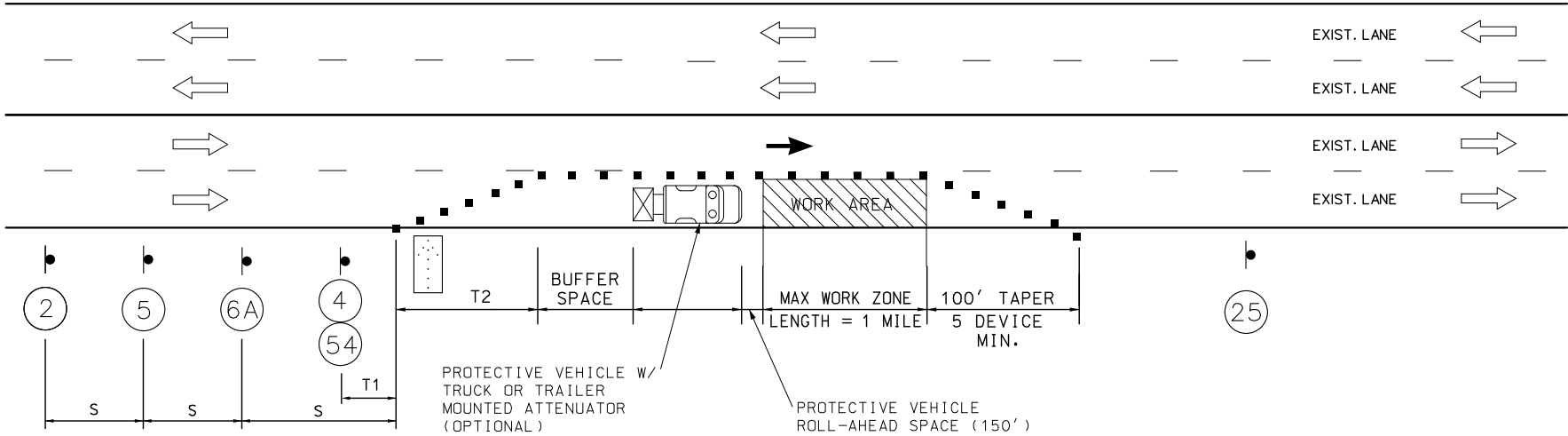
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 1 OF 6

OUTSIDE LANE CLOSURE



NOTES:

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

IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

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

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

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

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

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS. (SEE JSP'S)

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.



W04-1 aL
6A



W020-1
2



W020-5
5



G020-5 aP
54



R2-1
4



(NORMAL SPEED)
R2-1
25

LEGEND	
	SIGN (SINGLE SIDED)
	SIGN (DOUBLE SIDED)
	FLAGGER
	CHANNELIZER (TRIM-LINE)
	FLASHING ARROW PANEL
	OPTIONAL - ATTENUATOR TRUCK WITH FLASHING ARROW PANEL IN CAUTION MODE W/ 150' ROLL AHEAD SPACE
	DIRECTIONAL BARRICADE
	TYPE 3 MOVEABLE BARRICADE

ADVANCE WARNING SIGN MINIMUM SPACING		
SPEED LIMIT ¹ , MPH	SIGN SPACING ² , FT (S)	
	UNDIVIDED HIGHWAY	DIVIDED HIGHWAY
0-35	200 ³	200 ³
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTH AND SPACING					
SPEED LIMIT ¹ , MPH	TAPER LENGTH ² , FT		CHANNELIZING SPACING ³ , FT		BUFFER LENGTH, FT
	SHOULDER ⁴ (T1)	LANE ⁵ (T2)	TAPERS	BUFFER/WORK AREA	
0-35	70	245	35 ⁶	40 ⁶	280
40-45	150	540	40 ⁶	80 ⁶	400
50-55	185	660	50 ⁷	80 ⁷	560
60-70	235	840	60 ⁷	120 ⁷	840

¹POSTED SPEED LIMIT.
²SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
³FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IS 100 FT.

¹POSTED SPEED LIMIT.
²TAPER LENGTHS MAY BE ADJUSTED.
³SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
⁴BASED ON 10 FT SHOULDER WIDTH.
⁵BASED ON 12 FT LANE WIDTH.
⁶SPACING REDUCED TO 1/2 AT INTERSECTIONS.
⁷SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 3 OF 6



DATE PREPARED 10/6/2021	
ROUTE 166	STATE MO
DISTRICT SW	SHEET NO. 7
COUNTY NEWTON	
JOB NO. J7P3401	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

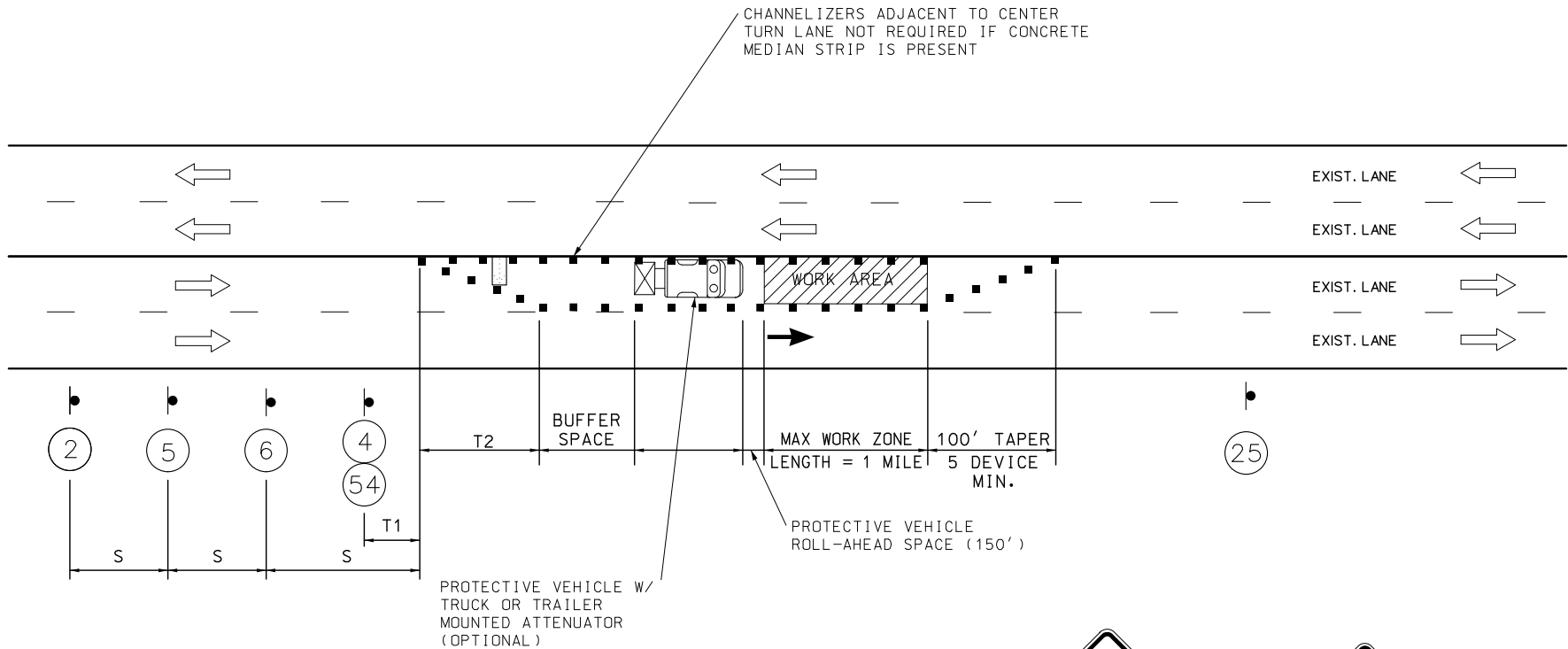
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PASSING LANE CLOSURE

REVISED: 8-11-2021



NOTES:

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

IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

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

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

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

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

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS. (SEE JSP'S)

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.



W020-1
2



W020-5
5



W020-6a
6



R2-1
4



G020-5aP
54



(NORMAL SPEED)
R2-1
25

ADVANCE WARNING SIGN MINIMUM SPACING		
SPEED LIMIT ¹ , MPH	SIGN SPACING ² , FT (S)	
	UNDIVIDED HIGHWAY	DIVIDED HIGHWAY
0-35	200 ³	200 ³
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTH AND SPACING					
SPEED LIMIT ¹ , MPH	TAPER LENGTH ² , FT		CHANNELIZING SPACING ³ , FT		BUFFER LENGTH, FT
	SHOULDER ⁴ (T1)	LANE ⁵ (T2)	TAPERS	BUFFER/WORK AREA	
0-35	70	245	35 ⁶	40 ⁶	280
40-45	150	540	40 ⁶	80 ⁶	400
50-55	185	660	50 ⁷	80 ⁷	560
60-70	235	840	60 ⁷	120 ⁷	840

¹POSTED SPEED LIMIT.

²SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.

³FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IS 100 FT.

¹POSTED SPEED LIMIT.

²TAPER LENGTHS MAY BE ADJUSTED.

³SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.

⁴BASED ON 10 FT SHOULDER WIDTH.

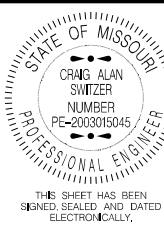
⁵BASED ON 12 FT LANE WIDTH.

⁶SPACING REDUCED TO 1/2 AT INTERSECTIONS.

⁷SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CHANNELIZER (TRIM-LINE)
- FLASHING ARROW PANEL
- OPTIONAL - ATTENUATOR TRUCK WITH FLASHING ARROW PANEL IN CAUTION MODE W/ 150' ROLL AHEAD SPACE
- DIRECTIONAL BARRICADE
- TYPE 3 MOVEABLE BARRICADE



DATE PREPARED 10/6/2021	
ROUTE 166	STATE MO
DISTRICT SW	SHEET NO. 8
COUNTY NEWTON	
JOB NO. J7P3401	
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)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 6

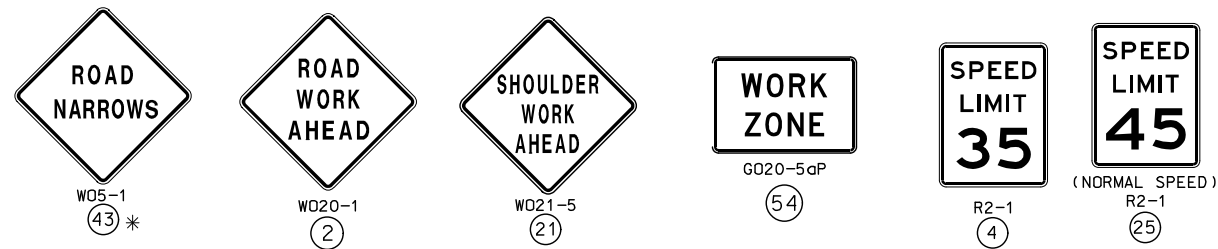
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TAPER LENGTH AND SPACING					
SPEED LIMIT, ¹ MPH	TAPER LENGTH, ² FT		CHANNELIZING SPACING, ³ FT		BUFFER LENGTH, FT
	SHOULDER ⁴ (T1)	LANE ⁵ (T2)	TAPERS	BUFFER/ WORK AREA	
0-35	70	245	35 ⁶	40 ⁶	280
40-45	150	540	40 ⁶	80 ⁶	400
50-55	185	660	50 ⁷	80 ⁷	560
60-70	235	840	60 ⁷	120 ⁷	840

¹POSTED SPEED LIMIT.
²TAPER LENGTHS MAY BE ADJUSTED.
³SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
⁴BASED ON 10FT SHOULDER WIDTH
⁵BASED ON 12FT LANE WIDTH
⁶SPACING REDUCED TO½AT INTERSECTIONS.
⁷SPACING MAY BE REDUCED TO½AT INTERSECTIONS.

ADVANCE WARNING SIGN MINIMUM SPACING	
SPEED LIMIT, ¹ MPH	SIGN SPACING, ² FT (S)
	UNDIVIDED HIGHWAY
0-35	200 ³
40-45	350
50-55	500
60-70	1000

¹POSTED SPEED LIMIT.
²SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
³FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IS 100 FT.



LEGEND

SIGN (SINGLE SIDED)

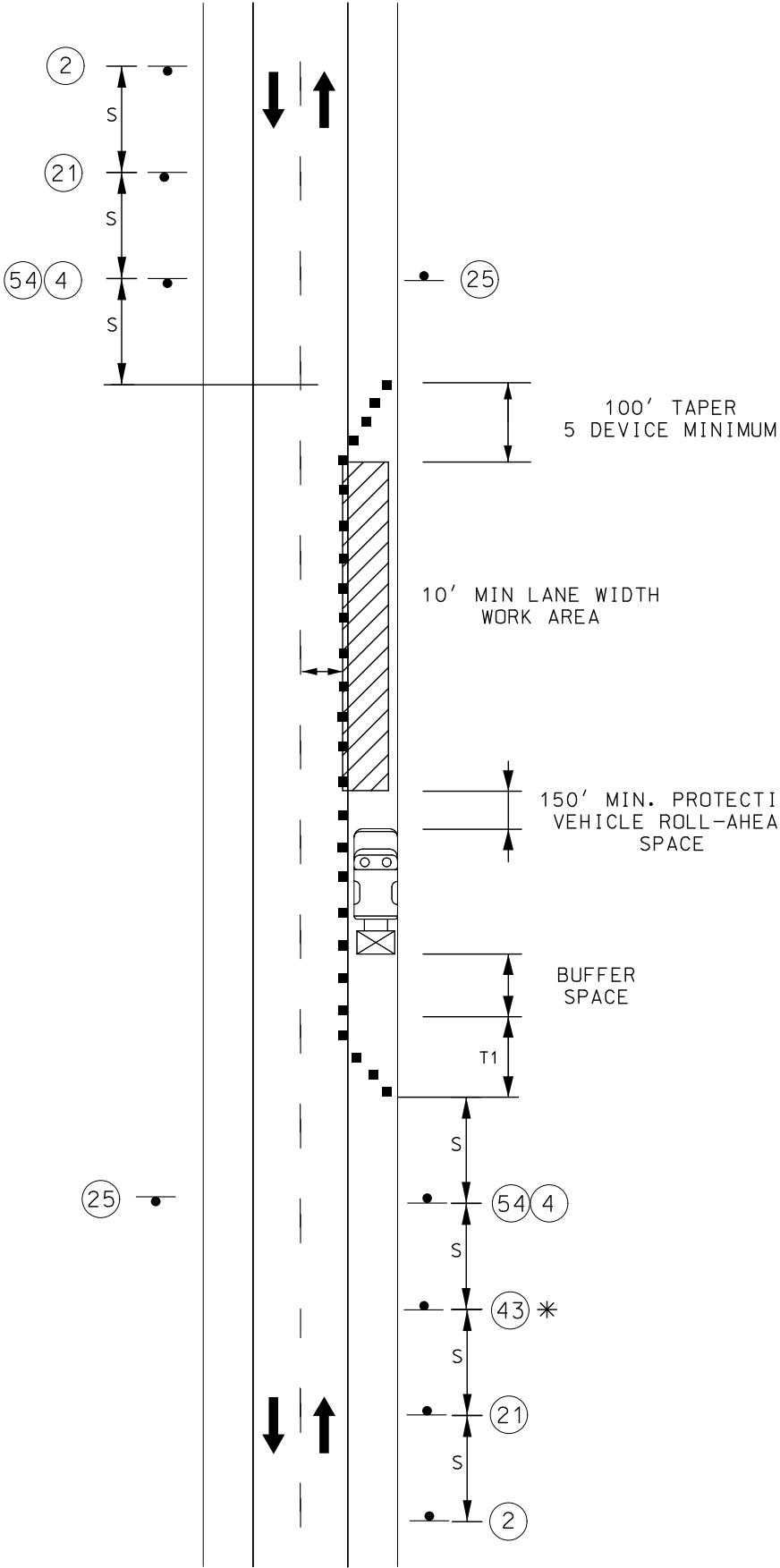
CHANNELIZER (TRIM-LINE)

OPTIONAL - ATTENUATOR TRUCK
WITH FLASHING ARROW
PANEL IN CAUTION MODE
W/ 150' ROLL AHEAD SPACE

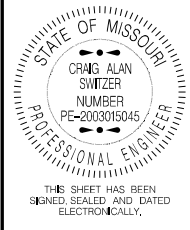
WORK ZONE

NOTES:
* OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT

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



REVISED: 3-1-2021



DATE PREPARED 10/6/2021	
ROUTE 166	STATE MO
DISTRICT SW	SHEET NO. 9
COUNTY NEWTON	
JOB NO. J7P3401	
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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

