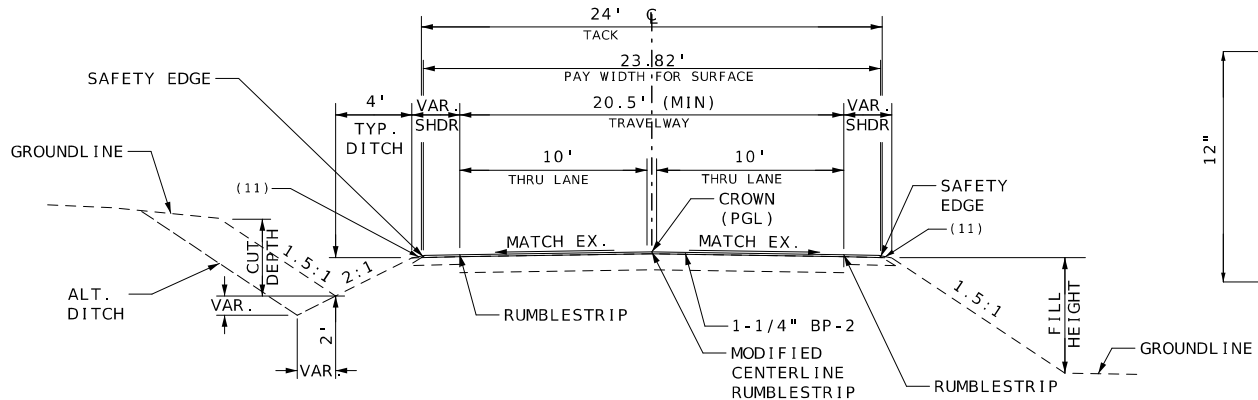


SECTION ON TANGENT

TYPICAL SECTION IN CAMDEN COUNTY  
LOGMILE 145.025 TO LOGMILE 145.075

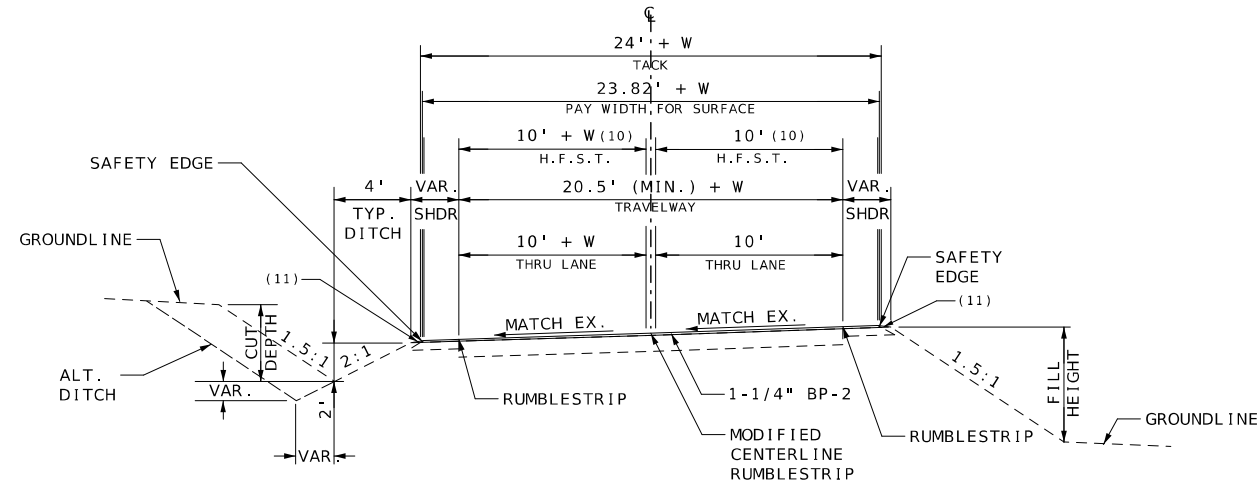
TAPER TO RIGHT FROM 24' PAVEMENT TO 34' PAVEMENT  
LOGMILE 145.008 TO LOGMILE 145.025



SECTION ON TANGENT

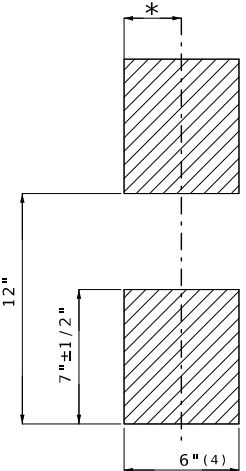
TYPICAL SECTION IN BENTON COUNTY  
LOGMILE 129.308 TO LOGMILE 130.130

TYPICAL SECTION IN CAMDEN COUNTY  
LOGMILE 130.130 TO LOGMILE 145.008



SECTION ON CURVE

\* LATERAL DEVIATION  
SHALL NOT EXCEED  
1" PER 100'



DETAIL B  
MODIFIED  
CENTERLINE  
RUMBLE STRIP

CURVE WIDENING "W" LOCATIONS				
CURVE	LOGMILE		CURVE WIDENING	
ID	FROM	TO	W	COMMENT
A	136.410	136.438	1	TRANS. FROM 0' TO W
	136.438	136.472	2	
	136.472	136.500	1	TRANS. FROM W TO 0'
B	136.520	136.548	1	TRANS. FROM 0' TO W
	136.548	136.594	2	
	136.594	136.622	1	TRANS. FROM W TO 0'
C	137.988	138.016	1	TRANS. FROM 0' TO W
	138.016	138.088	2	
	138.088	138.116	1	TRANS. FROM W TO 0'
D	138.336	138.364	1	TRANS. FROM 0' TO W
	138.364	138.415	2	
	138.415	138.443	1	TRANS. FROM W TO 0'
E	138.714	138.742	1	TRANS. FROM 0' TO W
	138.742	138.793	2	
	138.793	138.821	1	TRANS. FROM W TO 0'
F	138.843	138.871	1	TRANS. FROM 0' TO W
	138.871	138.965	2	
	138.965	138.993	1	TRANS. FROM W TO 0'
G	139.564	139.592	1	TRANS. FROM 0' TO W
	139.592	139.677	2	
	139.677	139.705	1	TRANS. FROM W TO 0'
H	139.753	139.781	1	TRANS. FROM 0' TO W
	139.781	139.812	2	
	139.812	139.840	1	TRANS. FROM W TO 0'
I	140.005	140.033	1	TRANS. FROM 0' TO W
	140.033	140.118	2	
	140.118	140.146	1	TRANS. FROM W TO 0'
J	140.305	140.333	1	TRANS. FROM 0' TO W
	140.333	140.401	2	
	140.401	140.429	1	TRANS. FROM W TO 0'
K	141.002	141.030	1	TRANS. FROM 0' TO W
	141.030	141.114	2	
	141.114	141.142	1	TRANS. FROM W TO 0'
L	141.172	141.200	1	TRANS. FROM 0' TO W
	141.200	141.247	2	
	141.247	141.275	1	TRANS. FROM W TO 0'
M	141.349	141.377	1	TRANS. FROM 0' TO W
	141.377	141.418	2	
	141.418	141.446	1	TRANS. FROM W TO 0'
N	141.491	141.519	1	TRANS. FROM 0' TO W
	141.519	141.555	2	
	141.555	141.583	1	TRANS. FROM W TO 0'
O	142.328	142.356	1	TRANS. FROM 0' TO W
	142.356	142.439	2	
	142.439	142.467	1	TRANS. FROM W TO 0'
P	142.722	142.750	1	TRANS. FROM 0' TO W
	142.750	142.950	2	
	142.950	142.978	1	TRANS. FROM W TO 0'
Q	143.818	143.846	1	TRANS. FROM 0' TO W
	143.846	143.857	2	
	143.857	143.885	1	TRANS. FROM W TO 0'
R	144.220	144.248	1	TRANS. FROM 0' TO W
	144.248	144.275	2	
	144.275	144.303	1	TRANS. FROM W TO 0'

NOTES:

- (1) FOR INFORMATION PURPOSES ONLY  
ESTIMATE FACTOR FOR BP-2 = 1.987 T/CY  
ESTIMATE FACTOR FOR TACK = 0.08 GAL/SY  
ESTIMATE FACTOR FOR GRAVEL (A) OR  
CRUSHED STONE(B) = 0.039 T/SY/Inch  
ESTIMATE FACTOR FOR PERMANENT AGGREGATE  
EDGE TREATMENT = 0.058 T/SY/Inch

- (2) SURFACE PLACEMENT SHALL BE ONE PASS PER LANE.

- (3) APPLY TACK UNDER THE BP-2 SURFACE.

- (4) THE CENTERLINE RUMBLESTRIP SHALL BE PLACED  
ACCORDING TO STANDARD PLAN 626.00;  
THEY ARE MODIFIED TO 6" WIDE.

- (5) THE SHOULDER RUMBLESTRIP SHALL BE PLACED  
ACCORDING TO THE STANDARD PLANS AT AN OFFSET  
OF 10' OUTSIDE OF THE EDGE OF THE CENTERLINE  
RUMBLESTRIP. THAT IS, 10' LANES SHALL BE  
MAINTAINED AT A MINIMUM.

- (6) A LANELINE SHALL BE PLACED AT AN OFFSET OF  
10' OUTSIDE OF THE EDGE OF CENTERLINE  
RUMBLE STRIP IN THE 3-LANE SECTION.

- (7) THE EDGELINE STRIPE SHALL BE PLACED OVER THE  
SHOULDER RUMBLESTRIP AS PER THE STANDARD  
PLANS.

- (8) THE CENTERLINE STRIPE SHALL BE PLACED OVER THE  
CENTERLINE RUMBLESTRIP AS PER STANDARD  
PLAN.

- (9) CURVE WIDENING "W" IS USED FOR CALCULATION  
PURPOSES ONLY. THE CURVE WIDENING SHOWN IN  
TABLE MATCHES FIELD CONDITIONS. THEREFORE,  
MATCH EXISTING EDGE OF PAVEMENT WHEN  
RESURFACING ALONG CURVES.

- (10)HIGH FRICTION SURFACE TREATMENT (H.F.S.T.):  
LOGMILE 142.706 TO LOGMILE 142.949.  
PLACE BETWEEN RUMBLESTRIPS.

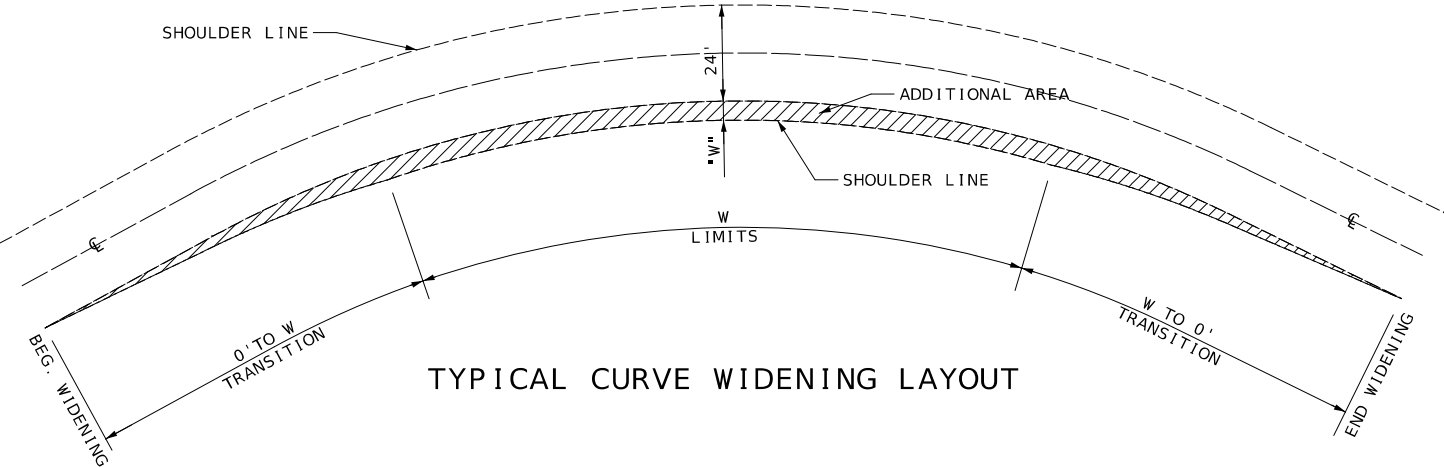
- (11)AGGREGATE EDGE PROVIDED BY OTHERS.

PAVEMENT HISTORY

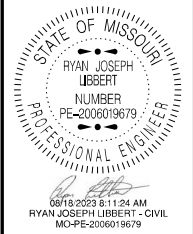
BENTON COUNTY  
1956 - 20' OIL AGGREGATE SURFACE  
1972 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
1976 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
1985 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
1992 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
2006 - 1-1/4"x 20' BP-2 LEVELING COURSE  
2014 - 1-1/4"x 20' BP-2 (PG64-22) W/  
2-1/2"x 2' BP-1 (PG64-22) SHOULDERING  
2021 - 24' SEAL COAT (GR. A1)

CAMDEN COUNTY

1956 - 20' OIL AGGREGATE SURFACE  
1971 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
1977 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
1987 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
1992 - 20' BIT. MAT. OF UNKNOWN THICKNESS  
2006 - 1-1/4"x 20' BP-2 LEVELING COURSE  
2014 - 1-1/4"x 20' BP-2 (PG64-22) W/  
4-3/4"x 2' PMBB (PG64-22) SHOULDERING



TYPICAL CURVE WIDENING LAYOUT



DATE PREPARED  
8/17/2023

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 2

COUNTY BENTON/CAMDEN

JOB NO. J5P3325

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MODOT

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



PAVEMENT MARKING REMOVAL							
LOGMILE		LOCATION	LENGTH (FT)	PAINT	THERMOPLASTIC		REMARKS
				STRIPING	STRIPING	SYMBOLS	
FROM	TO			(LF)	(LF)	(LF)	
CAMDEN COUNTY							
145.051	145.071	MO 7	126.70	295.0			AREA BETWEEN RADII AT MO 5 INTERS.: 110' - 6" SOLID WHITE, 120' - 4" SOLID YELLOW, 65' - 8" SOLID WHITE
145.051	145.071	MO 7	126.70		12.0	1.0	AREA BETWEEN RADII AT MO 5 INTERS.: 12' - 24" SOLID WHITE, 1 - LEFT ARROW
CAMDEN COUNTY SUBTOTAL				295.0	12.0	1.0	
PROJECT TOTAL				307.0		1.0	
PROJECT USE				307		1	

HIGH FRICTION SURFACE TREATMENT - BAUXITE						
LOGMILE		LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	REMARKS
FROM	TO					
CAMDEN COUNTY						
142.706	142.949	MO 7	1283.02	20.00	2851.2	CURVE ("P") AT FOWLER'S LANE; FROM 194' BACK OF CURVE PC TO CURVE PT PC AT L.M. 142.75; PT AT L.M. 142.95
CAMDEN COUNTY ADDITIONAL QUANTITIES DUE TO CURVE WIDENING						
142.722	142.949	MO 7	1198.56	VAR.	251.1	CURVE "P"
CAMDEN COUNTY SUBTOTAL					3,102.3	
PROJECT TOTAL					3,102.3	
PROJECT USE					3,102	

GRAVEL (A) OR CRUSHED STONE (B)								
LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	TOP AREA (SY)	AVG. DEPTH (IN)	QUANTITY (TONS)	REMARKS
BENTON COUNTY								
129.308	130.130	MO 7 - Lt.	310	2	68.9	3.375	9.1	6 ENTRANCES W/ AGGREGATE TOPS
129.308	130.130	MO 7 - Rt.	205	2	45.6	3.375	6.0	4 ENTRANCES W/ AGGREGATE TOPS
BENTON COUNTY MAINLINE SUBTOTAL							15.1	
PERCENTAGE OF IRREGULARITIES							75%	
ADDITIONAL QUANTITY DUE TO SURFACE IRREGULARITIES							11.3	
BENTON COUNTY ADJUSTED SUBTOTAL							26.4	
BENTON COUNTY - ADDITIONAL QUANTITIES DUE TO MAILBOX TURNOUTS								
129.308	130.130	MO 7 - Lt.	30	2	6.7	3.375	0.9	1 TURNOUT
129.308	130.130	MO 7 - Rt.	0	0	0.0	0	0.0	NO TURNOUTS
BENTON COUNTY TURNOUT SUBTOTAL							0.9	
PERCENTAGE OF IRREGULARITIES							75%	
ADDITIONAL QUANTITY DUE TO SURFACE IRREGULARITIES							0.7	
BENTON COUNTY ADJUSTED SUBTOTAL							1.6	
BENTON COUNTY SUBTOTAL							28.0	
CAMDEN COUNTY								
130.130	145.075	MO 7 - Lt.	4995	2	1110.0	3.375	146.1	99 ENTRANCES W/ AGGREGATE TOPS
130.130	145.075	MO 7 - Rt.	4045	2	898.9	3.375	118.3	91 ENTRANCES W/ AGGREGATE TOPS
130.791		MO 7 - Lt.	90.0	2	20.0	3.375	2.6	RT DD RIGHT RADIUS - 1 DWY W/ AGG. TOP
130.822		MO 7 - Rt.	80.0	2	17.8	3.375	2.3	RT NN RIGHT RADIUS - 1 DWY W/ AGG. TOP
CAMDEN COUNTY MAINLINE SUBTOTAL							269.3	
PERCENTAGE OF IRREGULARITIES							75%	
ADDITIONAL QUANTITY DUE TO SURFACE IRREGULARITIES							202.0	
CAMDEN COUNTY ADJUSTED SUBTOTAL							471.3	
CAMDEN COUNTY - ADDITIONAL QUANTITIES DUE TO MAILBOX TURNOUTS								
130.130	145.075	MO 7 - Lt.	500	2	111.1	3.375	14.6	15 TURNOUTS
130.130	145.075	MO 7 - Rt.	1950	2	433.3	3.375	57.0	49 TURNOUTS
CAMDEN COUNTY TURNOUT SUBTOTAL							71.6	
PERCENTAGE OF IRREGULARITIES							75%	
ADDITIONAL QUANTITY DUE TO SURFACE IRREGULARITIES							53.7	
CAMDEN COUNTY ADJUSTED SUBTOTAL							125.3	
CAMDEN COUNTY SUBTOTAL							596.6	
PROJECT TOTAL							624.6	
PROJECT USE							625	

BITUMINOUS EDGELINE RUMBLESTRIPS						
LOGMILE		LOCATION	LENGTH (FT)	SHOULDER		REMARKS
				LEFT (STA)	RIGHT (STA)	
FROM	TO					
BENTON COUNTY						
129.308	130.130	MO 7	4340.16	43.4	43.4	FROM RT AA TO COUNTY LINE
DRIVEWAY, COUNTY ROAD EXCEPTIONS				(16.0)	(9.3)	
BENTON COUNTY SPLIT SUBTOTAL				27.4	34.1	
BENTON COUNTY SUBTOTAL				61.5		
CAMDEN COUNTY						
130.130	130.779	MO 7	3426.70	34.3		FROM COUNTY LINE TO RT DD
130.130	130.810	MO 7	3590.38		35.9	FROM COUNTY LINE TO RT NN
130.779	133.922	MO 7	16595.01	166.0		FROM RT DD TO RT Z
130.835	139.061	MO 7	43433.25		434.3	FROM RT NN TO RT J
139.081	139.112	MO 7	163.65		1.6	FROM RT J TO RT J CONNECTOR
139.126	144.420	MO 7	27952.29		279.5	FROM RT J CONNECTOR TO RT EE
133.957	144.931	MO 7	57942.69	579.4		FROM RT Z START OF CURB AND GUTTER
144.443	145.008	MO 7	2983.17		29.8	FROM RT EE TO RIGHT TURN TAPER AT MO 5 INTERS.
DRIVEWAY, COUNTY ROAD EXCEPTIONS				(304.9)	(238.1)	
CAMDEN COUNTY SPLIT SUBTOTAL				474.8	543.0	
CAMDEN COUNTY SUBTOTAL				1,017.8		
PROJECT TOTAL				1,079.3		
PROJECT USE				1,079.3		

MODIFIED BITUMINOUS CENTERLINE RUMBLESTRIPS					
LOGMILE		LOCATION	LENGTH (FT)	CENTER (STA)	REMARKS
FROM	TO				
BENTON COUNTY					
129.308	130.130	MO 7	4340.16	43.4	FROM RT AA TO COUNTY LINE
BENTON COUNTY SUBTOTAL				43.4	
CAMDEN COUNTY					
130.130	145.008	MO 7	78555.82	785.6	FROM COUNTY LINE TO RIGHT TURN TAPER AT MO 5 INTERS.
CAMDEN COUNTY SUBTOTAL				785.6	
PROJECT TOTAL				829.0	
PROJECT USE				829.0	

STATE OF MISSOURI

RYAN JOSEPH UBBERT

NUMBER

PE-2006019679

PROFESSIONAL ENGINEER

09/22/2023 9:14:02 AM

RYAN JOSEPH UBBERT - CIVIL

MO-PE-2006019679

DATE PREPARED

8/22/2023

ROUTE

7

STATE

MO

DISTRICT

CD

SHEET NO.

3

COUNTY

BENTON / CAMDEN

JOB NO.

J5P3325

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 (WHITE)												
			WATERBORNE PAINT							PREFORMED		REMARKS
LOG MILE		LENGTH FT	TYPE L BEADS			TYPE P BEADS				THERMOPLASTIC		
			6 "			4 "		ISLAND LINE LF	24 " STOP BAR LF	MARKING		
			EDGE LINE		LANE LINE LF	EDGE LINE				ARROW		
			LEFT LF	RIGHT LF		LEFT LF	RIGHT LF			LEFT EA	RIGHT EA	
FROM	TO											
BENTON COUNTY												
129.308	130.130	4340.16	4,340	4,340								FROM RT AA TO CAMDEN COUNTY LINE
BENTON COUNTY SPLIT SUBTOTAL			4,340	4,340								
BENTON COUNTY SUBTOTAL			8,680									
CAMDEN COUNTY												
130.130	130.779	3426.72	3,427									FROM CAMDEN COUNTY LINE TO RT DD
130.779	130.805	137.28				119						RT DD LEFT
130.779	130.805	137.28					121					RT DD RIGHT
130.130	130.810	3590.40		3,590								FROM CAMDEN COUNTY LINE TO RT NN
130.810	130.835	132.00					109					RT NN RIGHT
130.130	130.810	3590.40				108						RT NN LEFT
130.805	133.922	16457.76	16,458									FROM RT DD TO RT Z
133.922	133.957	184.80					179					RT Z RIGHT
133.922	133.957	184.80				120						RT Z LEFT
130.835	139.061	43433.28		43,433								FROM RT NN TO RT J
139.061	139.081	105.60					177					RT J RIGHT
139.061	139.081	105.60				96						RT J LEFT
139.081	139.112	163.68		164								FROM RT J TO RT J CONNECTOR
139.081	139.112	163.68				139						RT J CONNECTOR LEFT
139.112	139.112	0.00					90					RT J CONNECTOR RIGHT
139.112	144.420	28026.24		28,026								FROM RT J CONNECTOR TO RT EE
144.420	144.443	121.44					150					RT EE RIGHT
144.420	144.443	121.44				168						RT EE LEFT
144.443	145.055	3231.36		3,231								FROM RT EE TO RADIUS TAPER ON RIGHT AT MO 5
145.055	218.236	157.00		157								MO 7 TO MO 5 & 7 RIGHT RADIUS
133.805	145.051	59378.88	59,379									FROM RT Z TO LEFT RADIUS AT MO 5
145.051	218.197	115.00	115									MO 7 TO MO 5 LEFT RADIUS
145.025	145.071	242.88			176							LANE LINE ON MO 7 AT MO 5 INTERSECTION
145.025	145.071	242.88						37	12	2	1	ISLAND, STOP BAR, LEFT/RIGHT ARROWS AT MO 5 INTERS.
218.197	218.236	205.92		23								ON MO 5 & 7 FRONTING ISLAND
218.197	218.236	205.92			84							ON MO 5 & 7 EXTENDING EXISTING LANE LINE
CAMDEN COUNTY SPLIT SUBTOTAL			79,379	78,624	260	750	826	37	12	2	1	
CAMDEN COUNTY SUBTOTAL			158,263			1,613		37	12	3		
PROJECT TOTAL			166,943			1,613		37	12	3		
PROJECT USE			166,943			1,613		37	12	3		

PAVEMENT MARKING (YELLOW )									
LOG MILE			WATERBORNE PAINT		PASSING ZONE CLASSIFICATION		REMARKS		
			TYPE P BEADS						
			4 "						
			SOLID	INTERM.					
FROM	TO	LENGTH FT	LF	LF					
BENTON COUNTY									
129.308	130.130	4340.16	8,680	0	NO PASS		FROM RT AA TO CAMDEN COUNTY LINE		
BENTON COUNTY SPLIT SUBTOTAL			8,680	0					
BENTON COUNTY SUBTOTAL			8,680						
CAMDEN COUNTY									
130.130	130.661	2803.68	5,607	0	NO PASS		FROM CAMDEN COUNTY LINE TO CLIMAX SPRINGS-BANK DWY.		
130.661	130.781	633.60	634	158	RIGHT NO PASS - LEFT PASS		FROM BANK DWY TO RT DD		
130.781	130.861	422.40	845	0	NO PASS		FROM RT DD TO JUST EAST OF RT NN		
130.861	130.950	469.92	470	117	RIGHT NO PASS - LEFT PASS		FROM JUST EAST OF RT NN TO LIBRARY ENTRANCE		
130.950	133.080	11246.40	22,493	0	NO PASS		FROM LIBRARY ENTRANCE TO PRIVATE AGG. DWY.		
133.080	133.200	633.60	634	158	RIGHT PASS - LEFT NO PASS				
133.200	133.241	216.48	433	0	NO PASS				
133.241	133.360	628.32	628	157	RIGHT NO PASS - LEFT PASS				
133.360	136.020	14044.80	28,090	0	NO PASS		JUST WEST OF RT Z TO JUST EAST OF GRANGER LANE		
136.020	136.200	950.40	950	238	RIGHT PASS - LEFT NO PASS				
136.200	136.299	522.72	0	131	BOTH LANES PASS				
136.299	136.440	744.48	744	186	RIGHT NO PASS - LEFT PASS				
136.440	137.460	5385.60	10,771	0	NO PASS		END JUST EAST OF J&T COUNTRY STORE		
137.460	137.600	739.20	739	185	RIGHT PASS - LEFT NO PASS				
137.600	137.760	844.80	845	211	RIGHT NO PASS - LEFT PASS				
137.760	145.060	38544.00	77,088	0	NO PASS		END AT MO 5 INTERSECTION		
CAMDEN COUNTY SPLIT SUBTOTAL			150,971	1,541					
CAMDEN COUNTY SUBTOTAL			152,512						
PROJECT TOTAL			161,192						
PROJECT USE			161,192						
NOTE: MATCH EXISTING PASSING ZONES. LOCATE YELLOW MARKINGS BEFORE APPLYING SURFACE. SEE JSP'S.									

STATE OF MISSOURI

RYAN JOSEPH LIBBERT

NUMBER  
PE-2006019679

PROFESSIONAL ENGINEER

08/22/2023 9:14:28 AM

RYAN JOSEPH LIBBERT - CIVIL

MO-PE-2006019679

DATE PREPARED  
8/22/2023

ROUTE  
7

DISTRICT  
CD

STATE  
MO

SHEET NO.  
3

COUNTY  
BENTON / CAMDEN

JOB NO.  
J5P3325

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

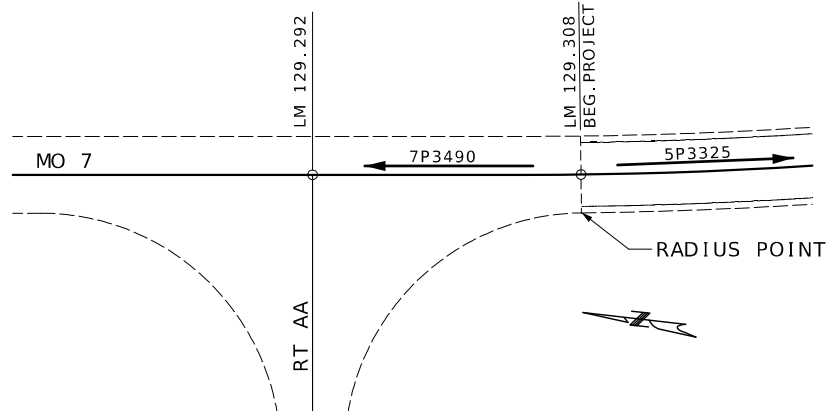
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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

EFFECTIVE: 04/01/2025									
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		
SIGN	IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	SIGN		
WARNING SIGNS								DESCRIPTION	
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)		
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)		
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)		
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)		
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)		
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)		
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)		
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)		
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)		
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)		
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)		
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)		
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)		
WO1-6a	72X36	18.00					HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)		
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		
WO1-8	18X24	3.00					CHEVRON (SYMBOL)		
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		
WO3-1	48X48	16.00	1	16		13	STOP AHEAD (SYMBOL)		
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)		
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)		
WO3-4	48X48	16.00	7	112		11	BE PREPARED TO STOP		
WO3-5	48X48	16.00					SPEED LIMIT AHEAD		
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)		
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)		
WO4-1aL	48X48	16.00					MERGE (ARROW SYMBOL)		
WO4-1aR	48X48	16.00					MERGE (ARROW SYMBOL)		
WO5-1	48X48	16.00	1	16		4	ROAD/BRIDGE/RAMP NARROWS		
WO5-3	48X48	16.00					ONE LANE BRIDGE		
WO5-5	48X48	16.00					NARROW LANES		
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)		
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)		
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)		
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)		
WO8-1	48X48	16.00					BUMP		
WO8-2	48X48	16.00					DIP		
WO8-3	48X48	16.00					PAVEMENT ENDS		
WO8-4	48X48	16.00					SOFT SHOULDER		
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)		
WO8-6	48X48	16.00					TRUCK CROSSING (WITH FLAGS)		
WO8-6c	48X48	16.00					TRUCK ENTRANCE		
WO8-7	36X36	9.00					LOOSE GRAVEL		
WO8-7a	36X36	9.00					FRESH OIL/LOOSE GRAVEL		
WO8-9	48X48	16.00					LOW SHOULDER		
WO8-11	48X48	16.00	42	672		36	UNEVEN LANES		
WO8-12	48X48	16.00	26	416		35	NO CENTER LINE		
WO8-15	48X48	16.00					GROOVED PAVEMENT		
WO8-15P	30X24	5.00					MOTORCYCLE (PLAQUE)		
WO8-17	48X48	16.00	1	16		9	SHOULDER DROP-OFF (SYMBOL)		
WO8-17P	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)		
W10-1	42RND.	9.62					RAILROAD CROSSING		
WO12-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)		
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)		
WO12-2X	24X18	3.00					LOW CLEARANCE (PLAQUE)		
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)		
WO12									

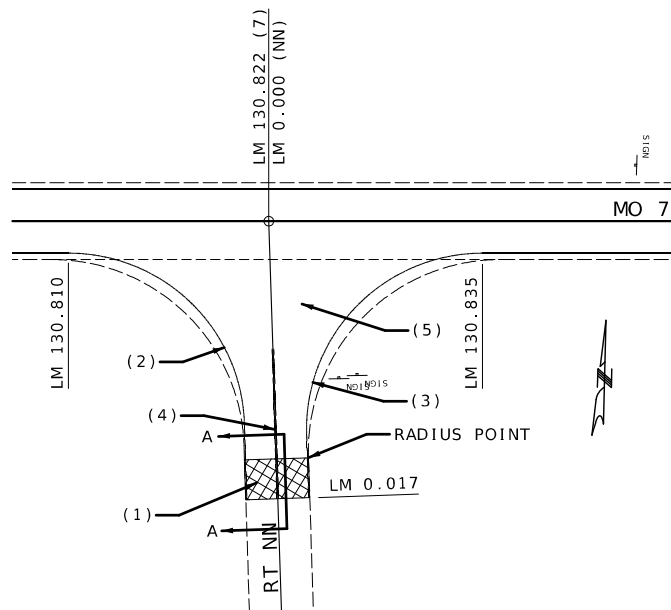
SUMMARY OF QUANTITIES  
SHEET 4 OF 4

[illegible]



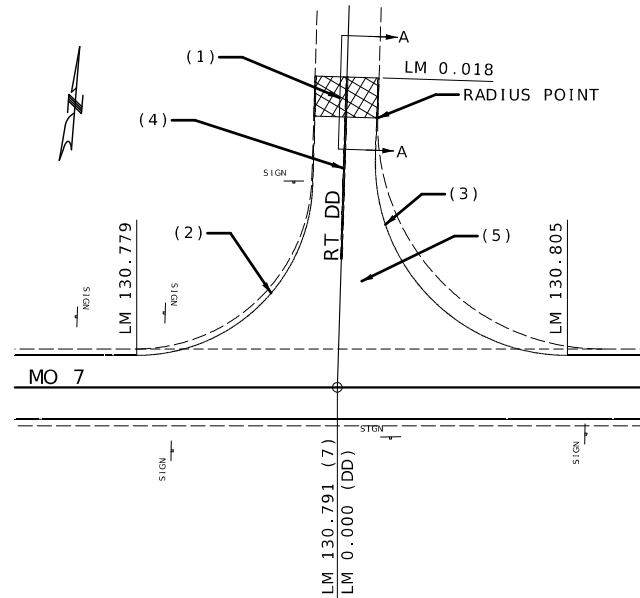
BEGIN PROJECT AT ROUTE AA  
(BENTON COUNTY)

COUNTY LINE AT LM 130.130



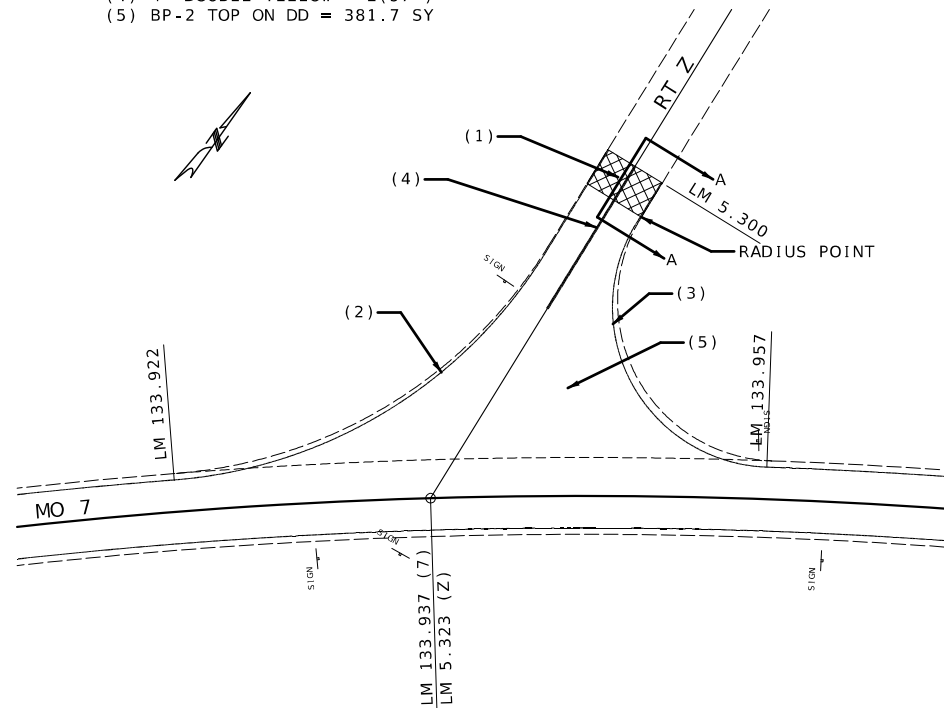
ROUTE NN INTERSECTION  
(CAMDEN COUNTY)

- NOTES:
- (1) 12.5' x 20' MOD. COLDMILL = 27.8 SY
  - (2) 4" SOLID WHITE = 109'
  - (3) 4" SOLID WHITE = 108'
  - (4) 4" DOUBLE YELLOW = 2(47')
  - (5) BP-2 TOP ON NN = 338.3 SY



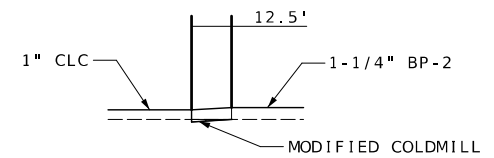
ROUTE DD INTERSECTION  
(CAMDEN COUNTY)

- NOTES:
- (1) 12.5' x 20' MOD. COLDMILL = 27.8 SY
  - (2) 4" SOLID WHITE = 119'
  - (3) 4" SOLID WHITE = 121'
  - (4) 4" DOUBLE YELLOW = 2(57')
  - (5) BP-2 TOP ON DD = 381.7 SY

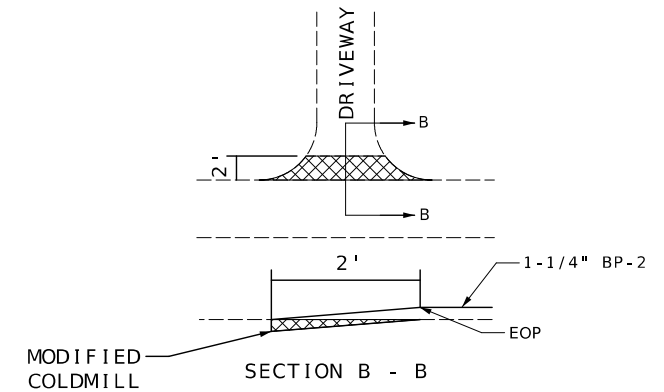


ROUTE Z INTERSECTION  
(CAMDEN COUNTY)

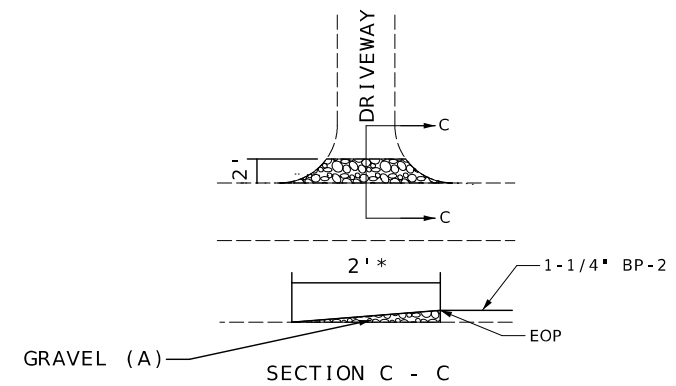
- NOTES:
- (1) 12.5' x 20' MOD. COLDMILL = 27.8 SY
  - (2) 4" SOLID WHITE = 179'
  - (3) 4" SOLID WHITE = 120'
  - (4) 4" DOUBLE YELLOW = 2(53')
  - (5) BP-2 TOP ON Z = 533.5 SY



SECTION A - A  
TRANSITION FROM 1-1/4" BP-2  
TO 1" SURFACE LEVEL COURSE

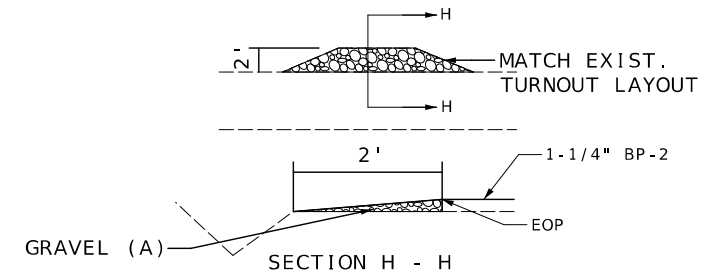


PAVED PRIVATE  
DRIVEWAYS OR  
COUNTY ROADS



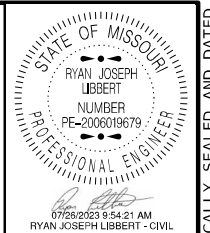
AGGREGATE PRIVATE  
DRIVEWAYS OR  
COUNTY ROADS

\* USE TYPICAL PERMANENT  
EDGE TREATMENT WIDTH  
AT FIELD ENTRANCES



MAILBOX TURNOUT

SPECIAL SHEET  
SHEET 1 OF 4

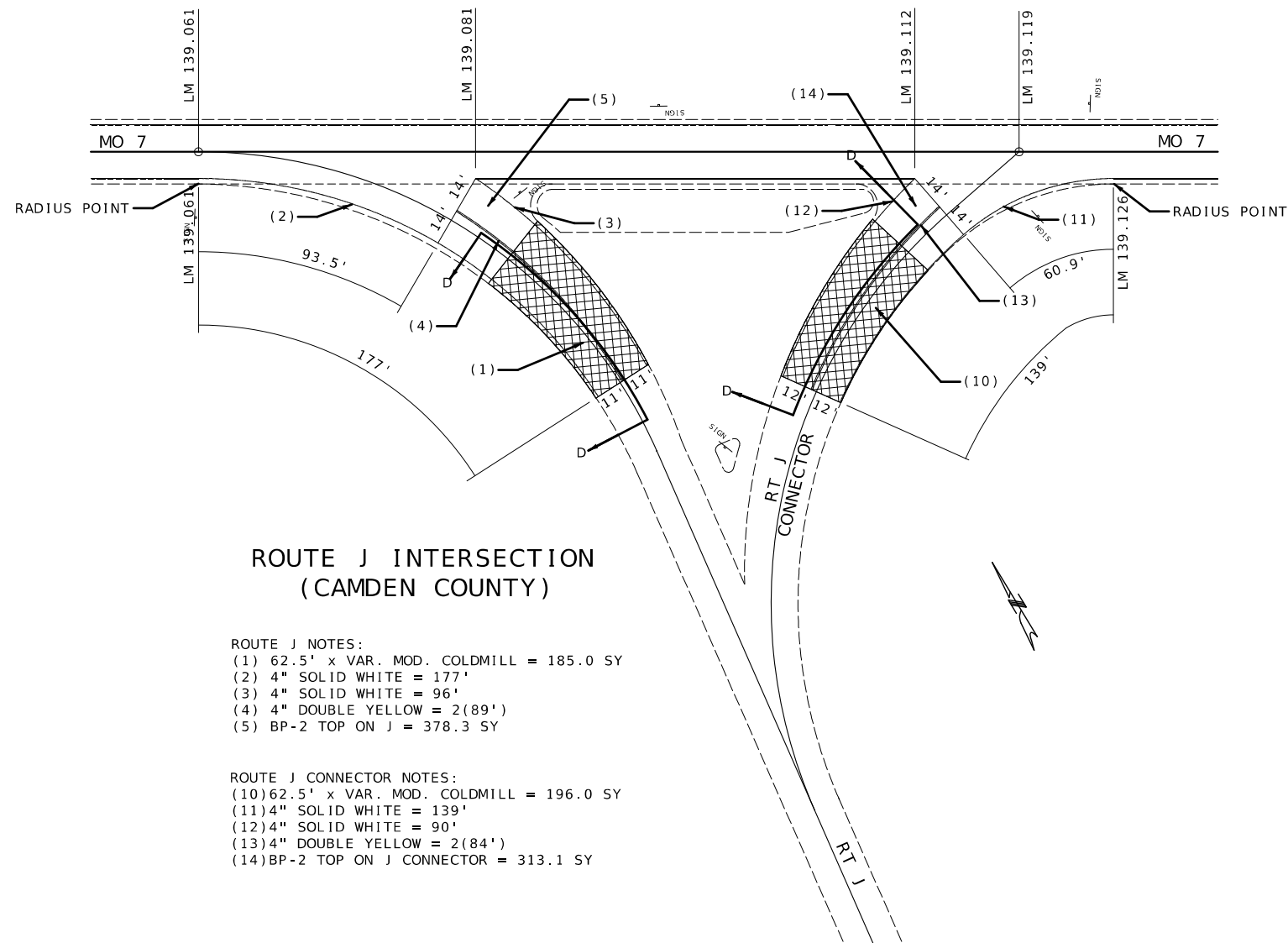


DATE PREPARED 7/25/2023	
ROUTE 7	STATE MO
DISTRICT CD	SHEET NO. 4
COUNTY BENTON/CAMDEN	
JOB NO. J5P3325	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

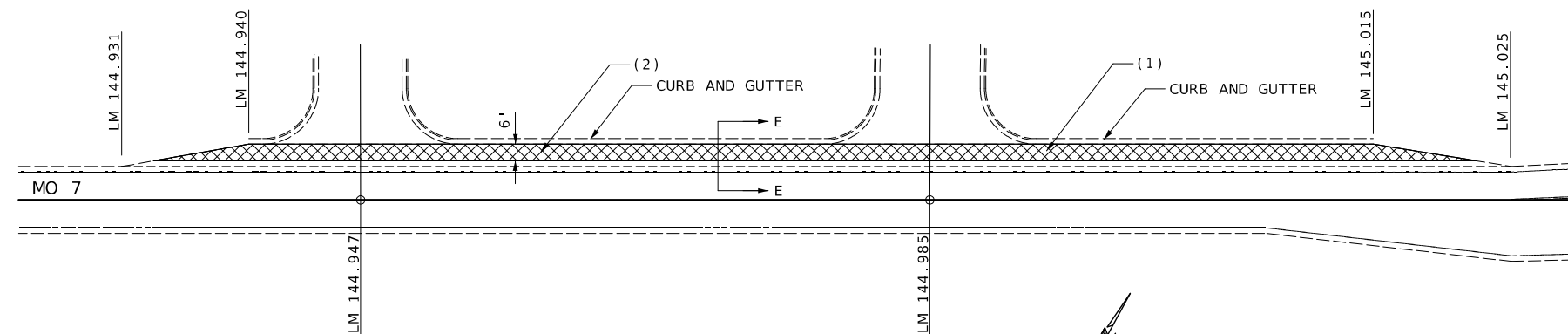
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



### ROUTE J INTERSECTION (CAMDEN COUNTY)

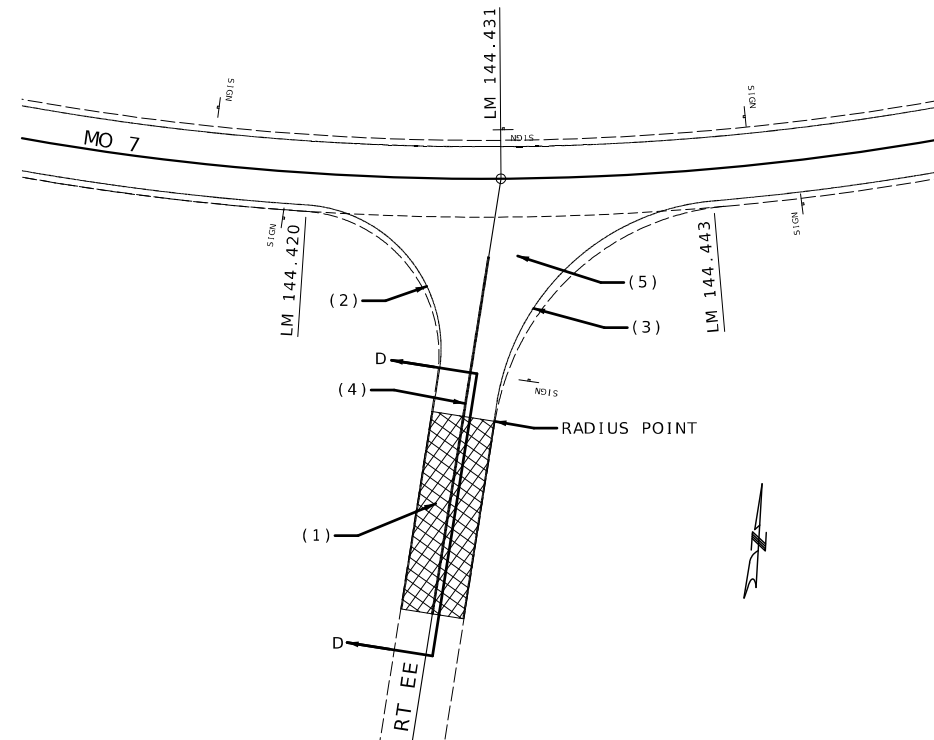
ROUTE J NOTES:  
 (1) 62.5' x VAR. MOD. COLDMILL = 185.0 SY  
 (2) 4" SOLID WHITE = 177'  
 (3) 4" SOLID WHITE = 96'  
 (4) 4" DOUBLE YELLOW = 2(89')  
 (5) BP-2 TOP ON J = 378.3 SY

ROUTE J CONNECTOR NOTES:  
 (10) 62.5' x VAR. MOD. COLDMILL = 196.0 SY  
 (11) 4" SOLID WHITE = 139'  
 (12) 4" SOLID WHITE = 90'  
 (13) 4" DOUBLE YELLOW = 2(84')  
 (14) BP-2 TOP ON J CONNECTOR = 313.1 SY



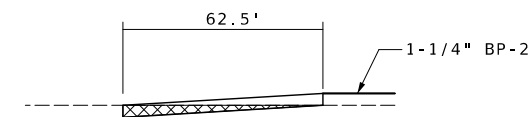
### OLD WOODS GROCERY STORE FRONTAGE (CAMDEN COUNTY)

NOTES:  
 (1) MOD. COLDMILL = 292.8 SY  
 (2) BP-2 TOP ON 7 LEFT = 400.8 SY

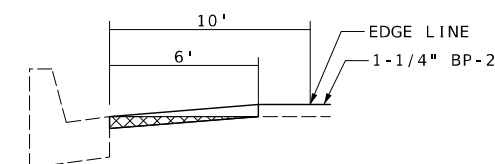


### ROUTE EE INTERSECTION (CAMDEN COUNTY)

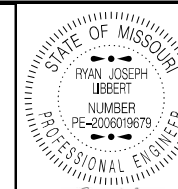
NOTES:  
 (1) 62.5' x 20' MOD. COLDMILL = 138.9 SY  
 (2) 4" SOLID WHITE = 150'  
 (3) 4" SOLID WHITE = 168'  
 (4) 4" DOUBLE YELLOW = 2(113')  
 (5) BP-2 TOP ON EE = 429.9 SY



### SECTION D - D TRANSITION FROM BP-2 SURFACE TO EXISTING SURFACE



### SECTION E - E CROSS SLOPE TRANSITION FROM BP-2 SURFACE TO CURB AND GUTTER



DATE PREPARED  
7/25/2023

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 5

COUNTY BENTON / CAMDEN

JOB NO. J5P3325

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

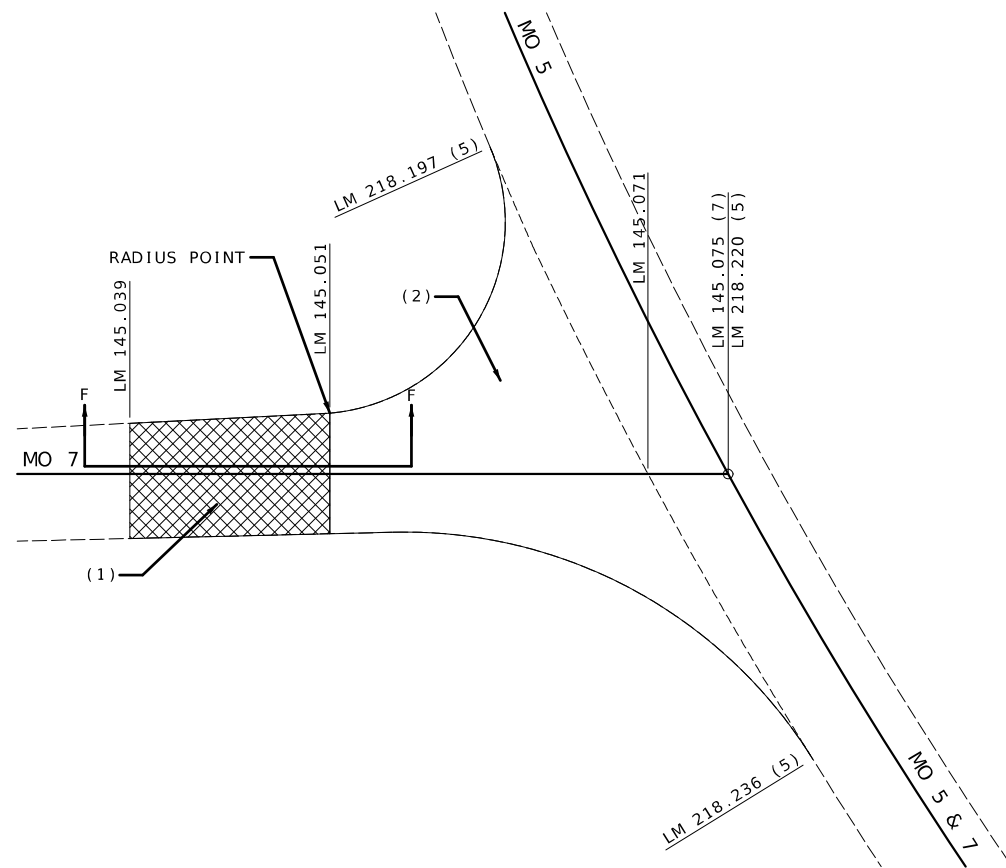
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

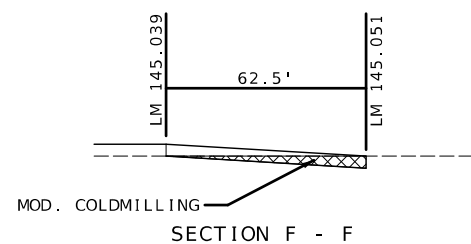
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

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

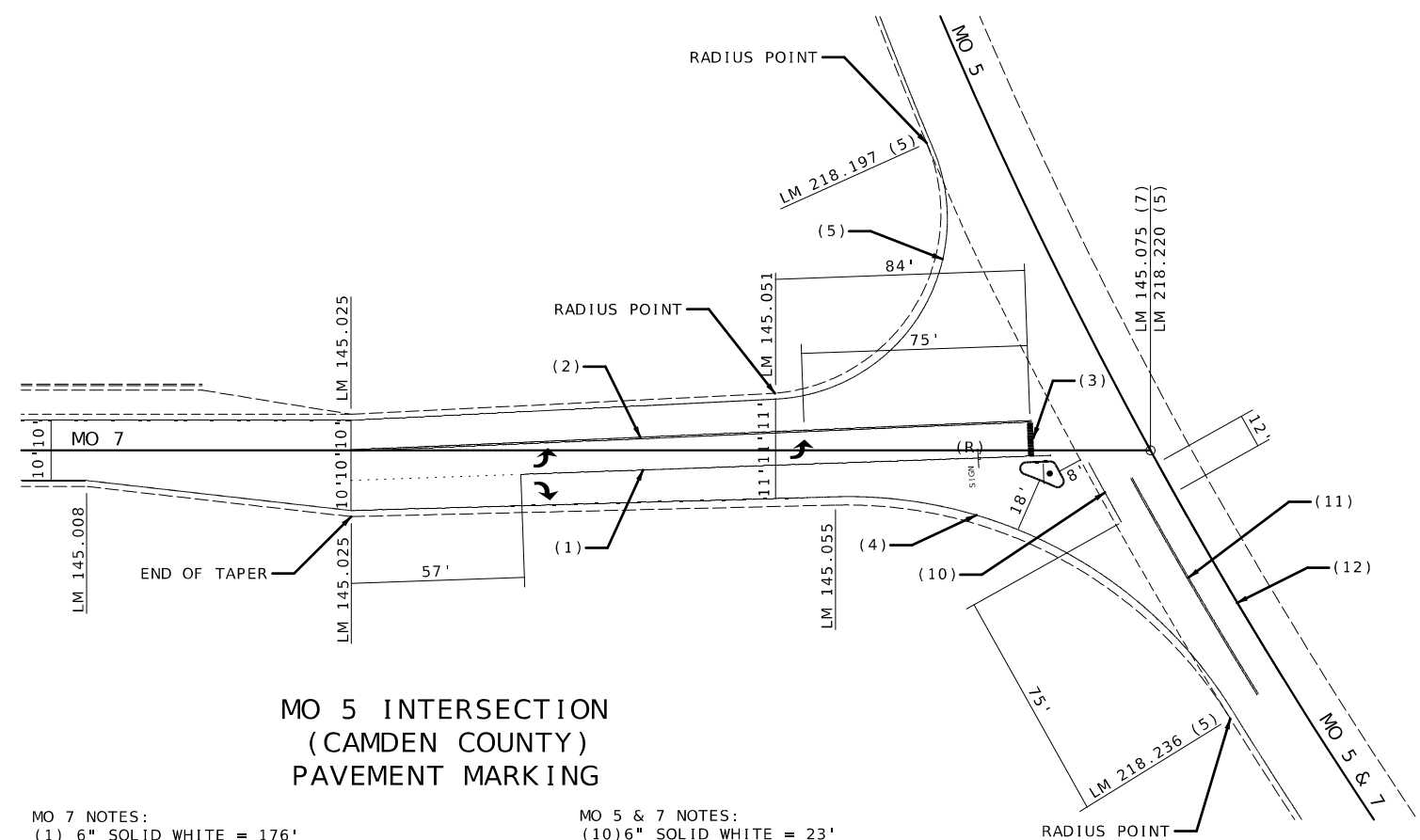
SPECIAL SHEET SHEET 2 OF 4



NOTES:  
(1) 62.5' x VAR. MOD. COLDMILL - 256.0 SY  
(2) AREA BETWEEN RADII RESURFACED ON  
JOB 5P3044.



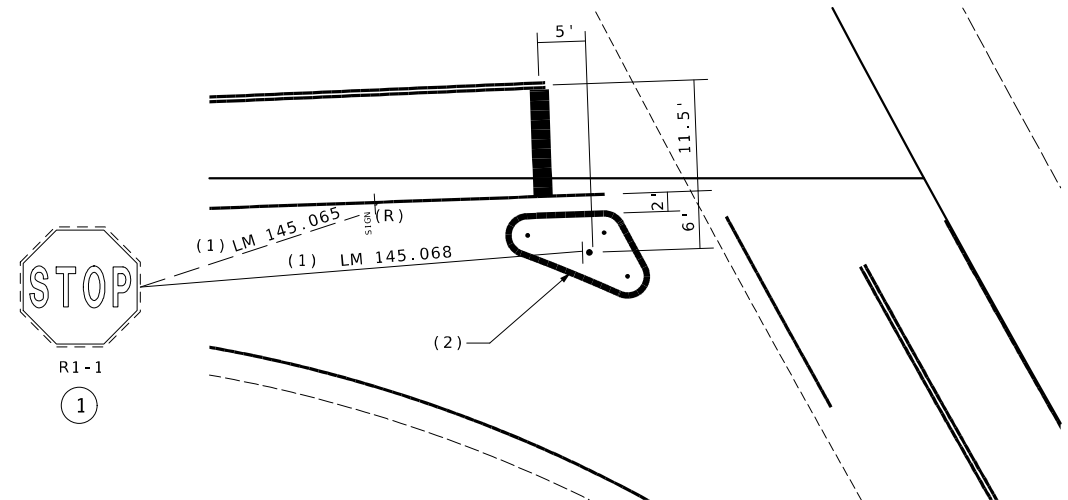
MO 5 INTERSECTION  
COLDMILLING DETAIL



MO 7 NOTES:

- (1) 6" SOLID WHITE = 176'
- (2) 4" DOUBLE YELLOW = 2(226')
- (3) 24" STOP BAR = 12'
- (4) 6" SOLID WHITE = 157' (RADIUS ONLY)
- (5) 6" SOLID WHITE = 115' (RADIUS ONLY)

MO 5 & 7 NOTES:  
 (10) 6" SOLID WHITE = 23'  
 (11) 4" DOUBLE YELLOW = 2(84')  
 (EXTEND EXIST. DOUBLE YELLOW  
 (12) 6" SOLID WHITE = 84'  
 (EXTEND EXISTING LANE LINE)



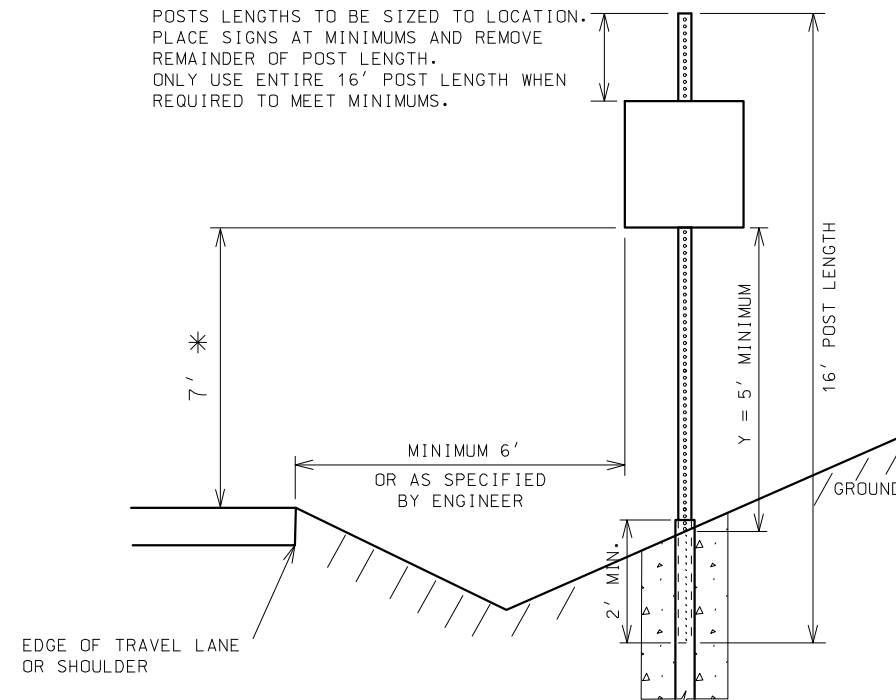
PAINTED ISLAND DETAIL NOTES:  
 (1) RELOCATE EXIST. STOP SIGN AND PSST POST TO NEW STUB.  
 REMOVE EXIST. STUB DOWN TO THE COLDMILLED PAVEMENT TOP.  
 (2) 8" SOLID WHITE = 37' (TOTAL ISLAND)  
 RADII AT THE NOSES = R2'  
 PLACE 36" SURFACE MOUNT DELINEATOR POST (WHITE) AT CENTER  
 OF CURVATURE OF RADIUS = 3 TOTAL

<div><div>STATE OF MISSOURI</div><div>RYAN JOSEPH LIBBERT</div><div>NUMBER</div><div>PE-2006019679</div><div>PROFESSIONAL ENGINEER</div></div> <div><div>07/26/2023 9:55:33 AM</div><div>RYAN JOSEPH LIBBERT - CIVIL</div><div>MO-PE-2006019679</div><div>DATE PREPARED</div></div> <div><div>7/25/2023</div><div>ROUTE</div><div>7</div><div>STATE</div><div>MO</div><div>DISTRICT</div><div>CD</div><div>SHEET NO.</div><div>6</div><div>COUNTY</div><div>BENTON/CAMDEN</div><div>JOB NO.</div><div>J5P3325</div><div>CONTRACT I.D.</div><div>PROJECT NO.</div><div>BRIDGE NO.</div></div> <table><thead><tr><th>DESCRIPTION</th><th>DATE</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> <div><div>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</div><div><div>MoDOT</div><div><div>105 WEST CAPITOL</div><div>JEFFERSON CITY, MO 65102</div><div>1-888-ASK-MODOT (1-888-275-6636)</div></div></div></div>		DESCRIPTION	DATE												
DESCRIPTION	DATE														



## MOUNTING HEIGHT DETAIL

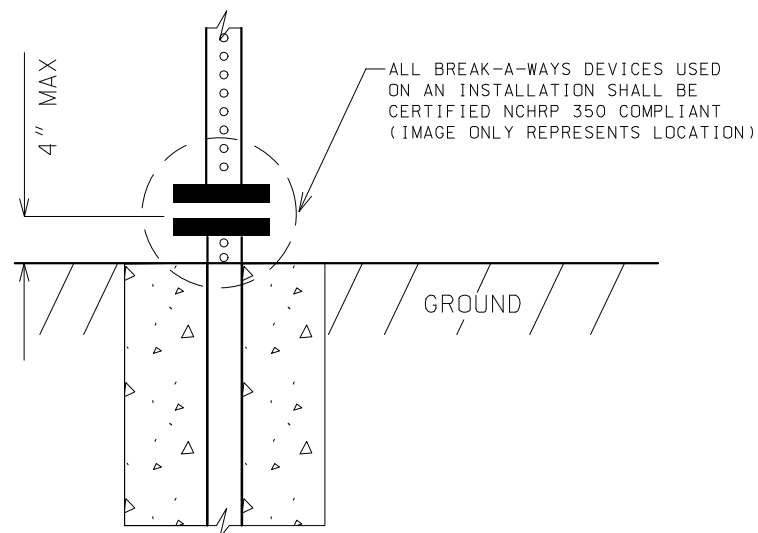
POSTS LENGTHS TO BE SIZED TO LOCATION.  
PLACE SIGNS AT MINIMUMS AND REMOVE  
REMAINDER OF POST LENGTH.  
ONLY USE ENTIRE 16' POST LENGTH WHEN  
REQUIRED TO MEET MINIMUMS.



\* 7' MINIMUM REQUIRED IN URBAN APPLICATIONS AND PREFERRED IN RURAL APPLICATIONS.  
*IN RURAL APPLICATIONS ONLY* - IN SITUATIONS WHERE THE 7' MINIMUM CAN NOT BE ATTAINED WITH A 16' PSST A RANGE OF 5' - 7' CAN BE USED AS LONG AS DISTANCE "Y" IS ALSO MAINTAINED.

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT, CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

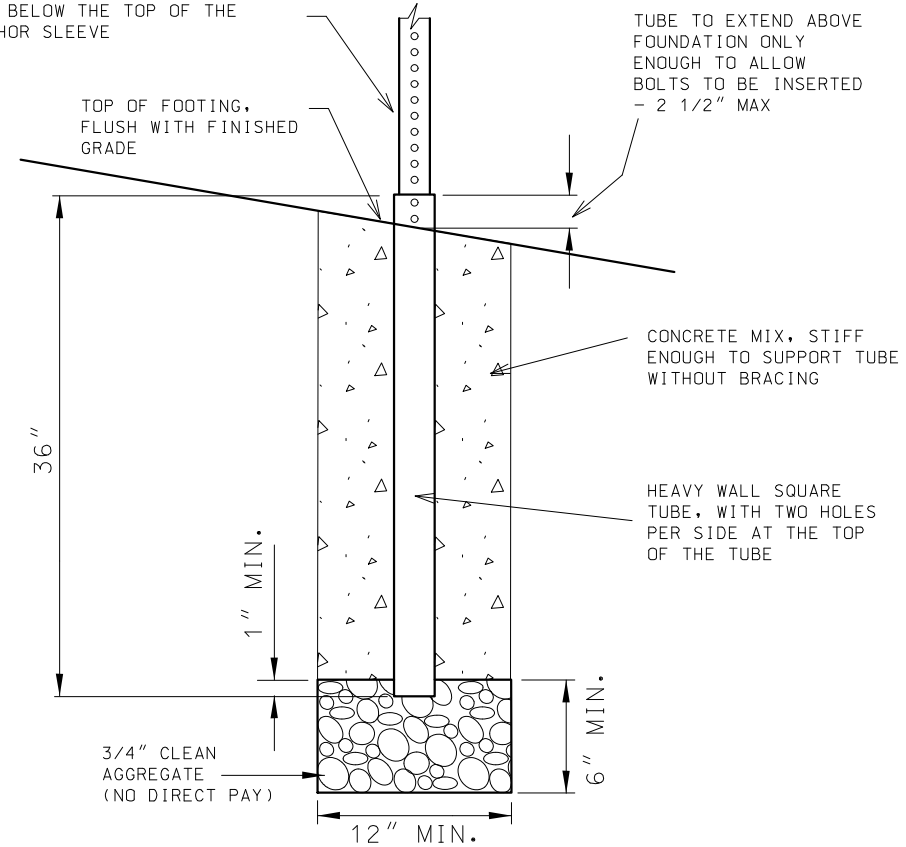
## BREAKAWAY DETAIL



WHEN BREAKAWAY DEVICES ARE REQUIRED  
THE PORTION FIXED TO THE GROUND ANCHOR  
SHALL BE NO HIGHER THAN 4" ABOVE THE  
FINISHED GRADE

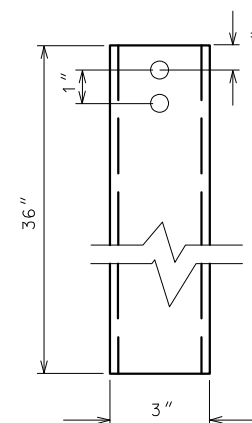
## CONCRETE FOOTING DETAIL

POST SHALL EXTEND A MINIMUM OF  
24" BELOW THE TOP OF THE  
ANCHOR SLEEVE



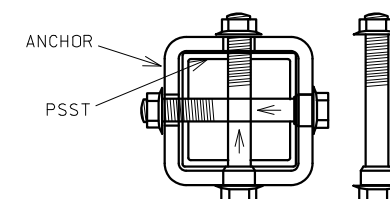
PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 12" DIAMETER = 0.09 CUBIC YARDS  
REQUIRED AGGREGATE CONSIDERED INCIDENTAL AND INCLUDED IN CONCRETE FOOTING

7 GAUGE ANCHOR  
FABRICATION DETAIL  
FOR 2.5" PSST



ANCHOR BOLT DETAIL  
FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED  
INSTALLED PERPENDICULAR TO EACH OTHER



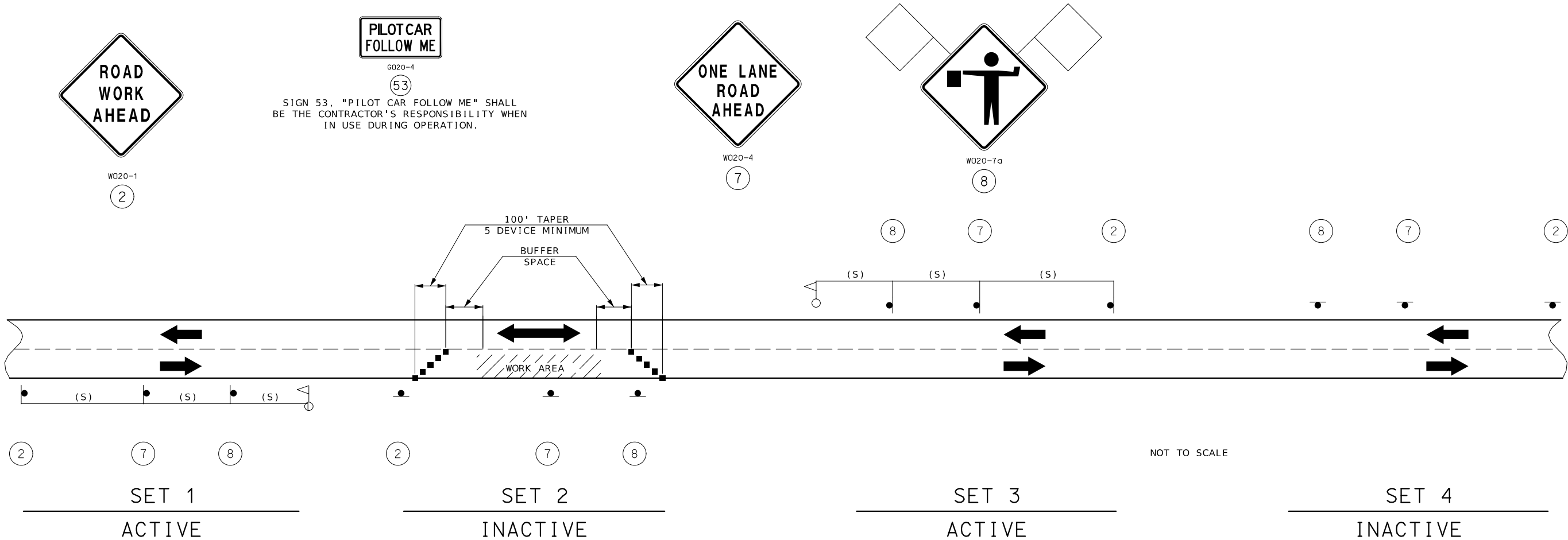
3/8" X 3.5" SHOULDER BOLT AND NUT

NOT TO SCALE

SPECIAL SHEET  
2.5" PSST POST DETAILS  
SHEET 4 OF 4

	 RYAN JOSEPH LIBBERT - CIVIL MO-FE-2006019679 DATE PREPARED						
7/25/2023							
RROUTE	7	STATE	MO				
DISTRICT	CD	SHEET NO.	7				
COUNTY	BENTON / CAMDEN						
JOB NO.	J5P3325						
CONTRACT ID.							
PROJECT NO.							
BRIDGE NO.							
DESCRIPTION							
DATE							
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-AASK-MODOT (1-888-275-6636)						





SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

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

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

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

### TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLASHING ARROW PANEL
- FLAGGER
- TMA - TRUCK MOUNTED ATTENUATOR
- CHANNELIZER
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM
- WORK SPACE

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (T2)			MINIMUM SHOULDER TAPER LENGTH (T1) *	BUFFER LENGTH (B)	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0 - 35	205'	225'	245'	70'	400'	35' **	40' **
40 - 45	450'	495'	540'	150'	400'	40' **	80' **
50 - 55	550'	605'	660'	185'	560'	50' ***	80' ***
60 - 70	700'	770'	840'	235'	840'	60' ***	120' ***
* TAPER LENGTH BASED ON A 10' WIDE SHOULDER							
** REDUCE CHANNELIZER SPACING TO HALF OF THE POSTED LENGTH WHEN AT AN INTERSECTION.							
*** CHANNELIZER SPACING MAY BE REDUCED TO HALF OF THE POSTED LENGTH WHEN AT AN INTERSECTION.							

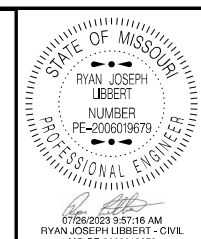
SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)	
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)
0 - 35	200'
40 - 45	350'
50 - 55	500'
60 - 70	1000'

CHARACTERISTICS BY ROADWAY TYPE			
ROADWAY TYPE	SIGN HEIGHT		MAXIMUM WORK ZONE LENGTH (L)
	PORTABLE	POST	
URBAN	1'	7'	1 MILE
RURAL DIVIDED	1'	7'	2 MILE
RURAL UNDIVIDED	1'	5'	3 MILE

NOTES:

- (1) SPACING BETWEEN SIGNS; SPACING BETWEEN LAST SIGN AND FLAGGER; SPACING FROM BEGINNING OF TAPER TO FIRST SIGN OR FLAGGER; OCCURRING WITHIN SIGNED CONDITION.
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY.
- (3) USE THE VALUES IN THESE TABLES UNLESS OTHERWISE NOTED IN THE PLANS OR NOTE (2) APPLIES.

TRAFFIC CONTROL SHEET  
SHEET 2 OF 6



DATE PREPARED  
7/25/2023

ROUTE  
7

STATE  
MO

DISTRICT  
CD

SHEET NO.  
9

COUNTY  
BENTON/CAMDEN

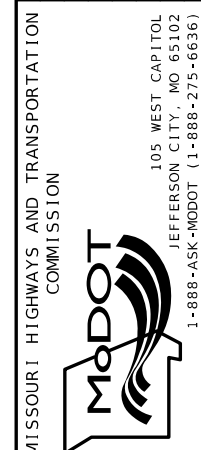
JOB NO.  
J5P3325

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

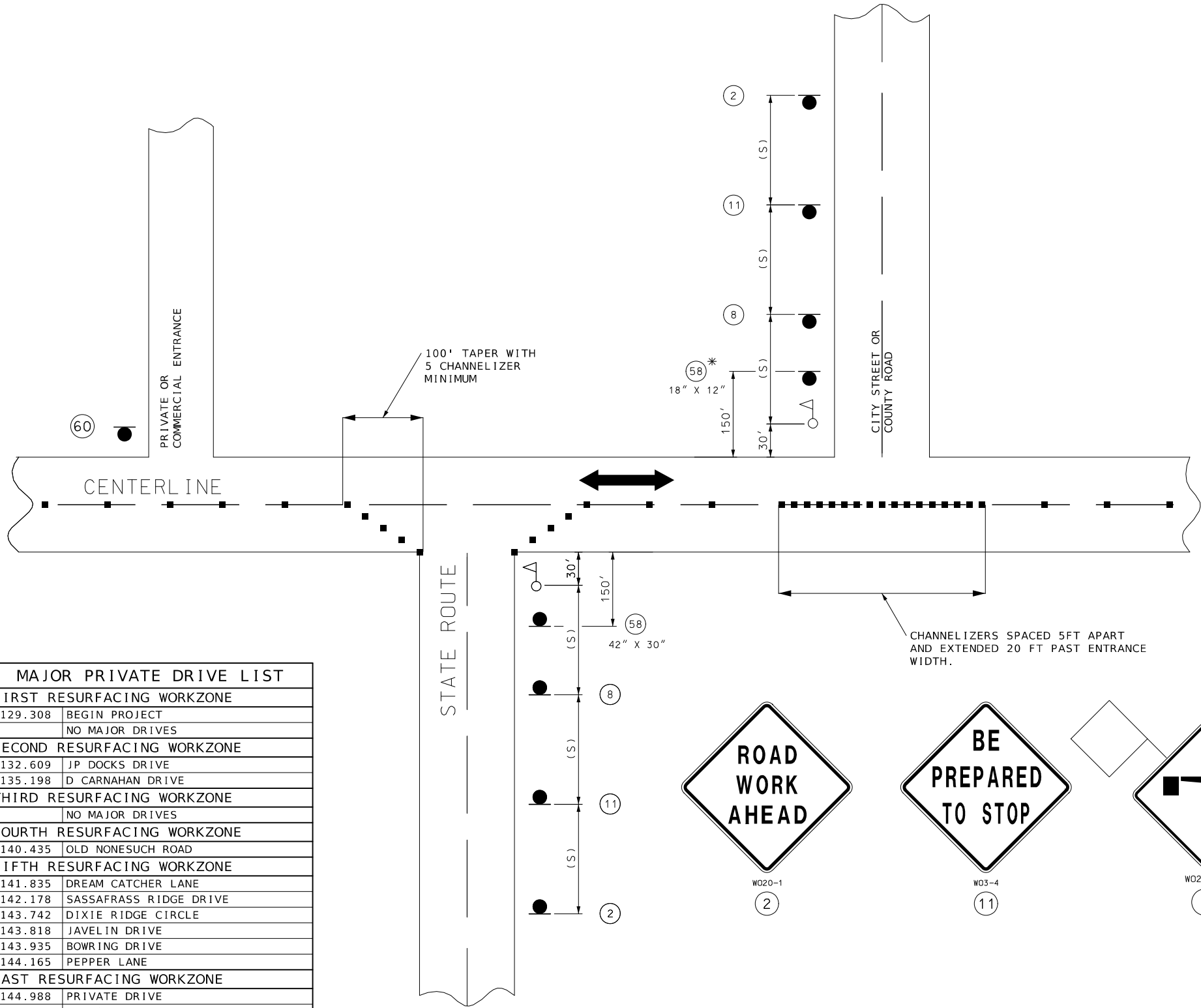


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MAJOR PRIVATE DRIVE LIST	
FIRST RESURFACING WORKZONE	
129.308	BEGIN PROJECT
	NO MAJOR DRIVES
SECOND RESURFACING WORKZONE	
132.609	JP DOCKS DRIVE
135.198	D CARNAHAN DRIVE
THIRD RESURFACING WORKZONE	
	NO MAJOR DRIVES
FOURTH RESURFACING WORKZONE	
140.435	OLD NONESUCH ROAD
FIFTH RESURFACING WORKZONE	
141.835	DREAM CATCHER LANE
142.178	SASSAFRASS RIDGE DRIVE
143.742	DIXIE RIDGE CIRCLE
143.818	JAVELIN DRIVE
143.935	BOWRING DRIVE
144.165	PEPPER LANE
LAST RESURFACING WORKZONE	
144.988	PRIVATE DRIVE
145.075	END PROJECT

RESURFACING WORKZONE LENGTH = 3 MILES

THIS LIST MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER.



SIDE ROADS ENTERING WORKZONES

NOTES:

- (1) SEE TEMPORARY TRAFFIC CONTROL SHEET 2 FOR SIGN SPACING, TAPER AND BUFFER ZONE LENGTHS, CHANNELIZER SPACING, AND TRAFFIC CONTROL LEGEND.
- (2) WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.
- (3) ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

CROSSROAD LIST	
FIRST RESURFACING WORKZONE	
129.308	BEGIN PROJECT
130.564	CREE STREET
130.791	ROUTE DD
130.822	ROUTE NN
131.075	SPARROW DRIVE
131.175	McNEIL STREET
131.262	KNOB HOLLOW ROAD
131.965	PARTRIGE LANE
SECOND RESURFACING WORKZONE	
133.937	ROUTE Z
THIRD RESURFACING WORKZONE	
135.768	GRANGER LANE
136.946	BOLLINGER CREEK ROAD
FOURTH RESURFACING WORKZONE	
139.022	IRONTOWN ROAD
139.061	ROUTE J
139.107	ROUTE J CONNECTOR
139.253	WINDING TREE DRIVE
141.565	TRANQUIL WOODS ROAD
FIFTH RESURFACING WORKZONE	
142.037	WOLF PEN HOLLOW ROAD
142.904	FOWLERS ROAD
144.431	ROUTE EE
LAST RESURFACING WORKZONE	
145.075	MISSOURI ROUTE 5

RESURFACING WORKZONE LENGTH = 3 MILES

THIS LIST MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER.



(58)

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

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



(60)

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE SPECIAL PROVISIONS.



DATE PREPARED  
7/25/2023

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 10

COUNTY BENTON/CAMDEN

JOB NO. J5P3325

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)

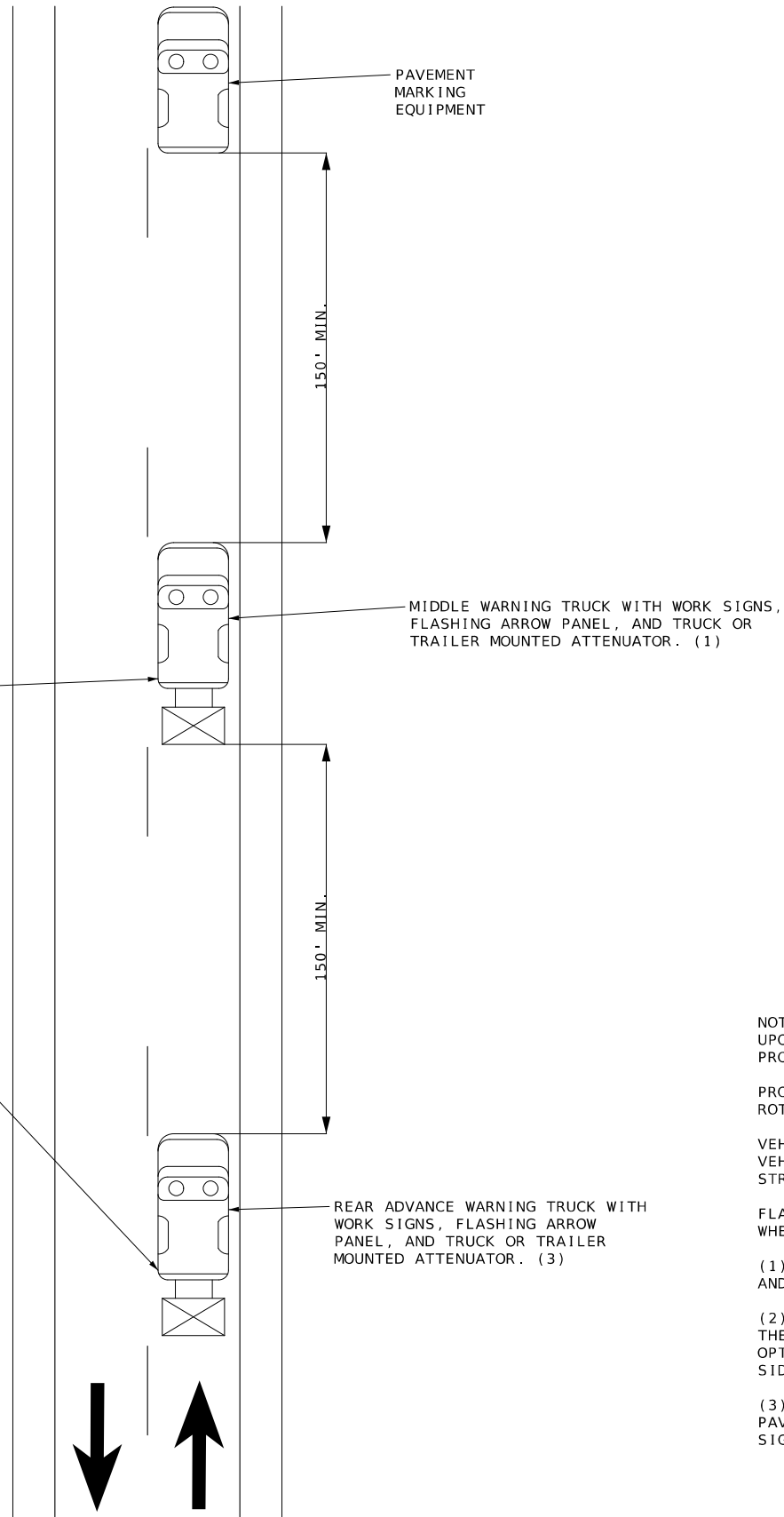
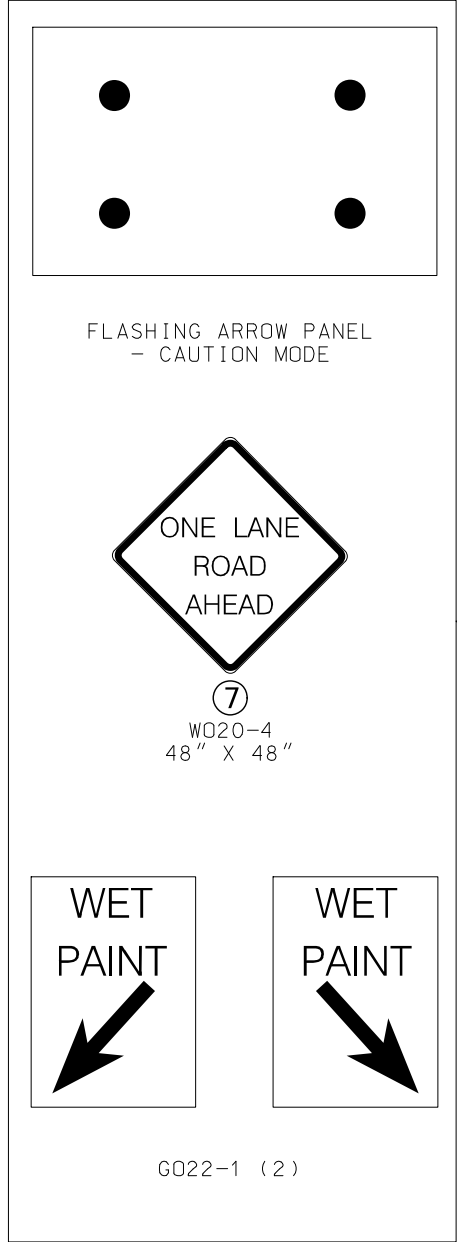
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL SHEET  
SHEET 4 OF 6

[illegible]





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

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

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

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

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

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

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

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

NOT TO SCALE

STATE OF MISSOURI

RYAN JOSEPH LIBBERT

NUMBER

PE-2006019679

PROFESSIONAL ENGINEER

07/26/2023 9:58:48 AM

RYAN JOSEPH LIBBERT - CIVIL

MO-PE-2006019679

DATE PREPARED

7/25/2023

ROUTE

7

DISTRICT

CD

STATE

MO

SHEET NO.

12

COUNTY

BENTON / CAMDEN

JOB NO.

J5P3325

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

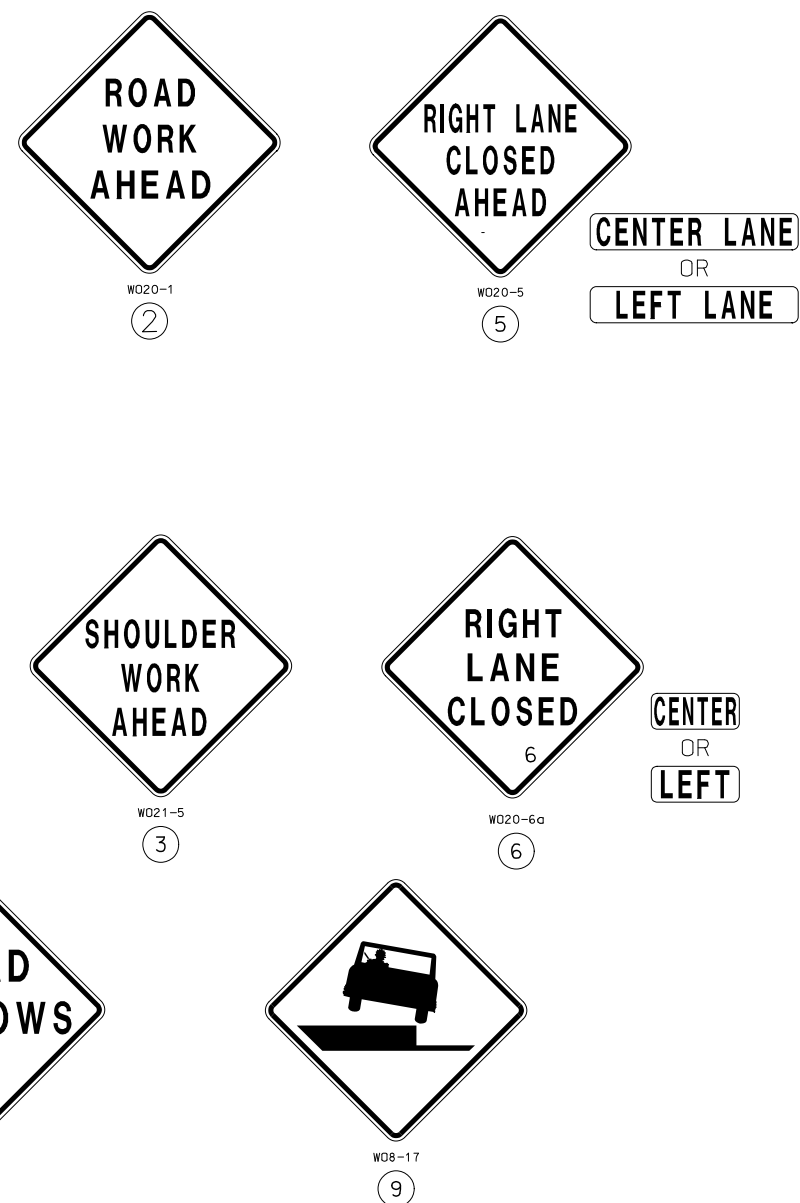
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

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



- (1). SEE TRAFFIC CONTROL SHEET 2 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZER TAPER LENGTHS.
- (2). UIP EXISTING YIELD SIGN. COVER IF IN CONFLICT WITH TEMPORARY STOP SIGN.
- (3). FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKINGS. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN ON TRAFFIC CONTROL SHEET 1.
- (4). SIGN ⑤ MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.
- (5). USE WHEN AN UNEVEN SURFACE IS PRESENT DUE TO CONSTRUCTION ON MO 7. OTHERWISE, REMOVE, OMIT, OR COVER SIGN.
- (6). USE WHEN A NARROW LANE SITUATION IS PRESENT DUE TO CONSTRUCTION ON MO 7. OTHERWISE, REMOVE, OMIT, OR COVER SIGN.

TRAFFIC CONTROL SHEET  
SHEET 6 OF 6

[illegible]

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

DESIGN DESIGNATION

A.A.D.T. - 2022= 2894

T = 10%

V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

NO NEW R/W REQUIRED

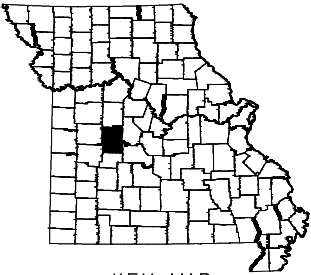
CONVENTIONAL SYMBOLS  
(USED IN PLANS)

	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		

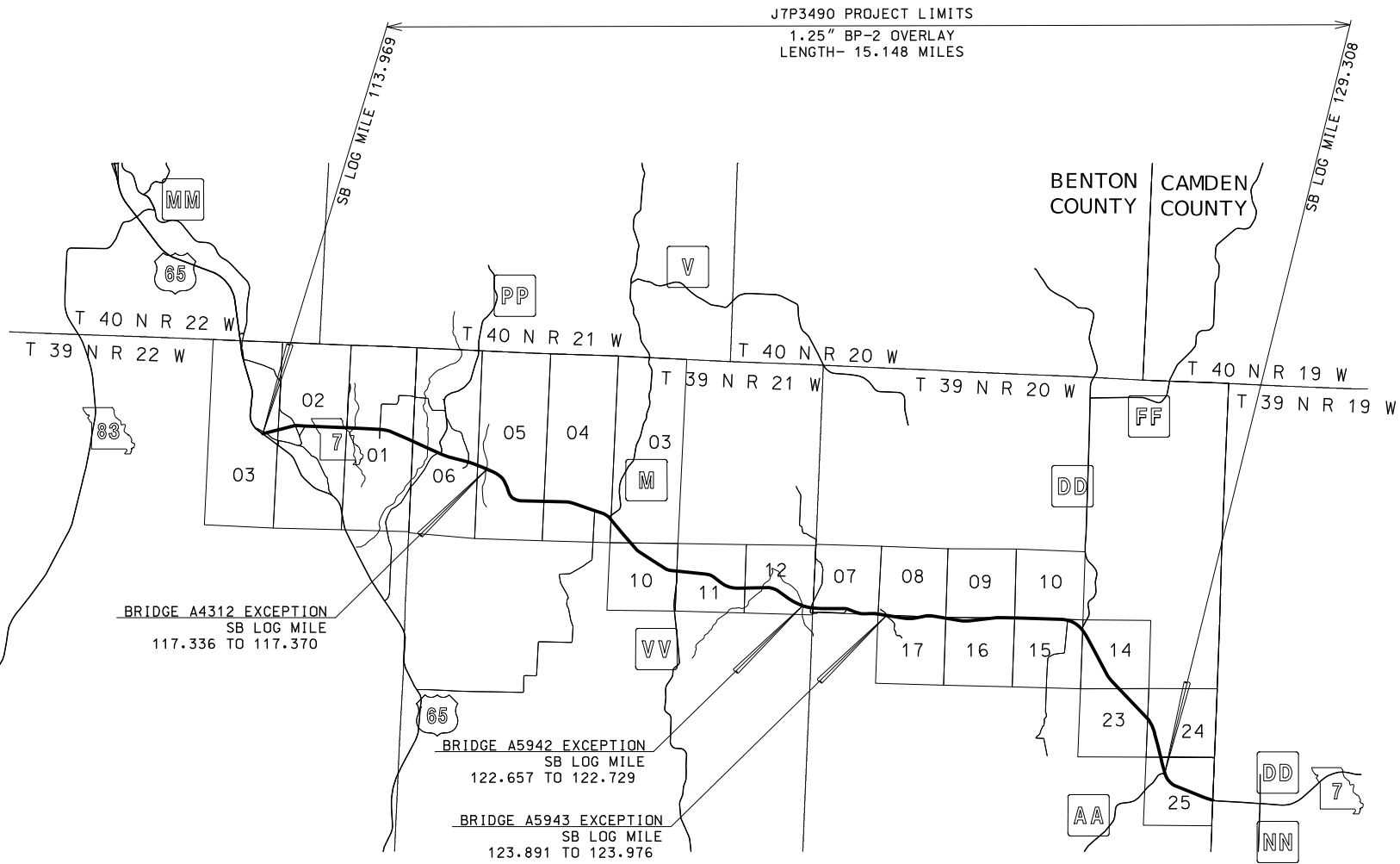
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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

REVISED: 5-5-2022



KEY MAP  
SHOWING LOCATION  
OF BENTON COUNTY

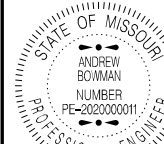


NOT TO SCALE

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) (7 SHEETS)---	2
QUANTITIES (QU) (3 SHEETS)-----	3
TRAFFIC CONTROL SHEETS (TC)-----	4-10



DATE PREPARED

8/29/2023

ROUTE 7 STATE MO

DISTRICT SW SHEET NO. 1

COUNTY BENTON

JOB NO. J7P3490

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)

LENGTH OF PROJECT

LOG MILES FROM 2022 ARAN

BEGINNING OF PROJECT	SBLM 113.969
END OF PROJECT	SBLM 129.308

APPARENT LENGTH 80989.92 FEET

EQUATIONS AND EXCEPTIONS:

BRIDGE A4312 EXCEPTION	179.52 FEET
BRIDGE A5942 EXCEPTION	380.16 FEET
BRIDGE A5943 EXCEPTION	448.80 FEET

TOTAL CORRECTIONS	1008.48 FEET
NET LENGTH OF PROJECT	79981.44 FEET
STATE LENGTH	15.148 MILES

FOR INFORMATION ONLY  
ESTIMATED DISTURBED ACRES 0 ACRES

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

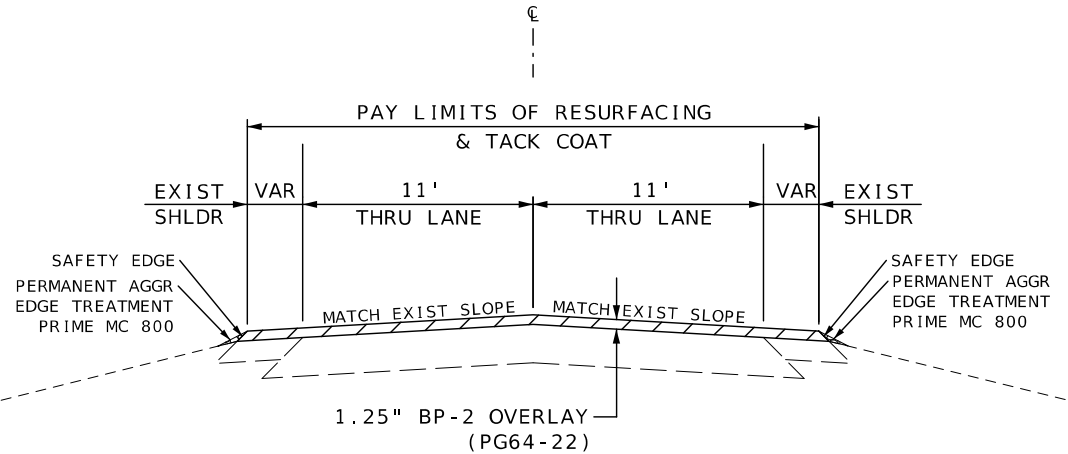
NOTES: LANE WIDTH NOTED IS TYPICAL LANE WIDTH.  
ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION

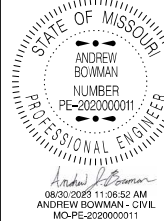
REVISED: 3/6/2023

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
BP-2 (PG64-22)	1.985 TONS/CY	5.4
TACK COAT		
OVERLAY	0.08 GAL/SY	
COLDMILLED AREAS	0.10 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE	0.25 GAL/SY	
EDGE TREATMENT		
IRREGULARITIES: 75 TONS/MI		



MO 7 SB

LOG MILE 113.969 TO LOG MILE 117.052	2'	SHOULDER
LOG MILE 117.052 TO LOG MILE 117.336	5'	SHOULDER
LOG MILE 117.370 TO LOG MILE 117.472	5'	SHOULDER
LOG MILE 117.472 TO LOG MILE 122.380	2'	SHOULDER
LOG MILE 122.380 TO LOG MILE 122.657	9'	SHOULDER
LOG MILE 122.729 TO LOG MILE 122.938	9'	SHOULDER
LOG MILE 122.938 TO LOG MILE 123.636	2'	SHOULDER
LOG MILE 123.636 TO LOG MILE 123.891	9'	SHOULDER
LOG MILE 123.976 TO LOG MILE 124.371	9'	SHOULDER
LOG MILE 124.371 TO LOG MILE 129.308	2'	SHOULDER



DATE PREPARED 8/29/2023	
ROUTE 7	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY BENTON	
JOB NO. J7P3490	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

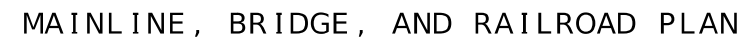
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



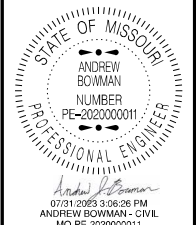
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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



NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.

TYPICAL SECTIONS  
SHEET 2 OF 7



DATE PREPARED

7/5/2023

ROUTE	STATE
7	MO

DISTRICT	SHEET NO.
SW	2

COUNTY  
BENTON

JOB NO.  
J7P3490

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

PROJECT NO.
-------------

BRIDGE NO.

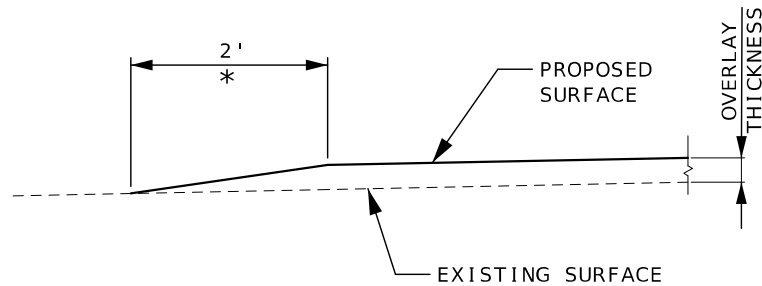
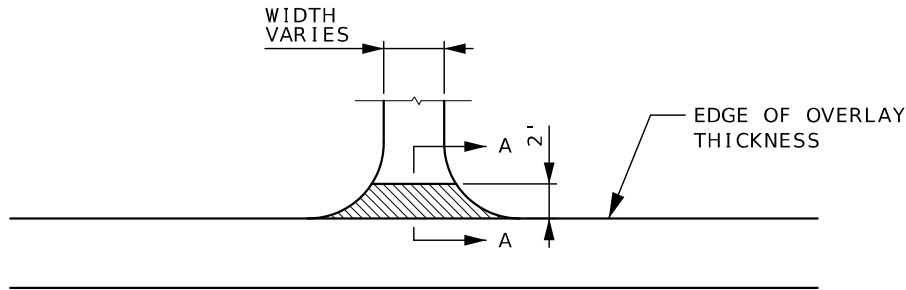
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



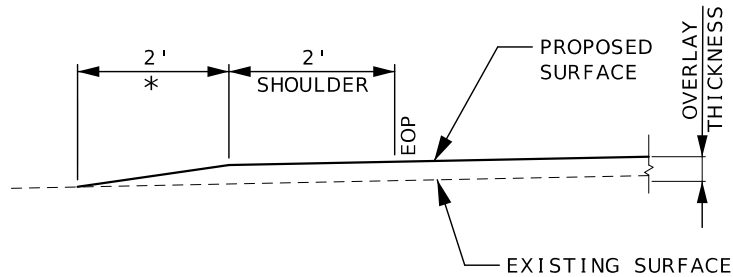
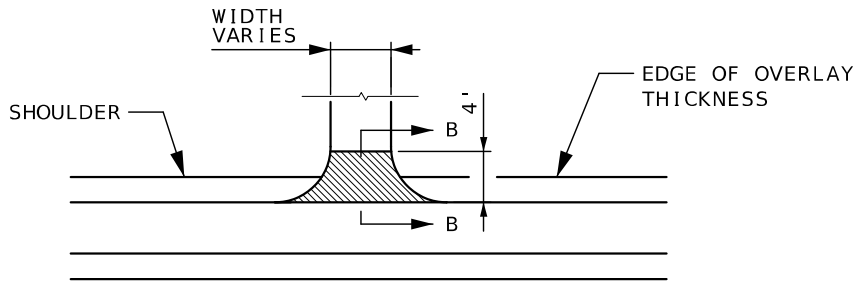
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



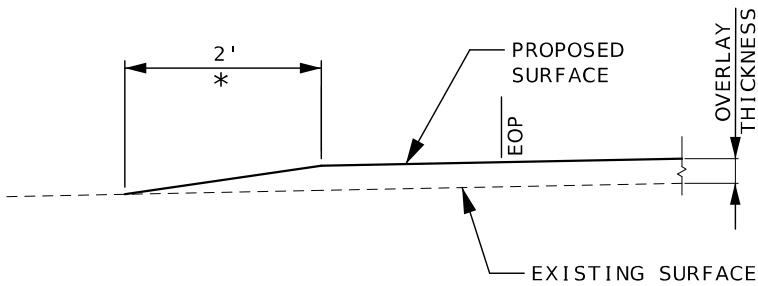


SECTION A-A  
TYPICAL ENTRANCE - NO SHOULDER  
(FIELD, PRIVATE OR COUNTY ROAD)  
\*TAPER AT 1:1 FOR FIELD ENTRANCE

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



AGGREGATE & EARTH ENTRANCES



ASPHALT & CONCRETE ENTRANCES

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

NOTES: DO NOT BUILD 2' MODIFIED A3 SHOULDERS  
ACROSS CONCRETE OR ASPHALT ENTRANCES,  
STREETS OR ROADS.

4 TONS GRAVEL A OR CRUSHED STONE B  
CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.

STATE OF MISSOURI

ANDREW BOWMAN

NUMBER

PE-202000011

PROFESSIONAL ENGINEER

07/31/2023 3:06:28 PM

ANDREW BOWMAN - CIVIL

MO-PE-202000011

DATE PREPARED

7/5/2023

ROUTE

7

STATE

MO

DISTRICT

SW

SHEET NO.

2

COUNTY

BENTON

JOB NO.

J7P3490

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)

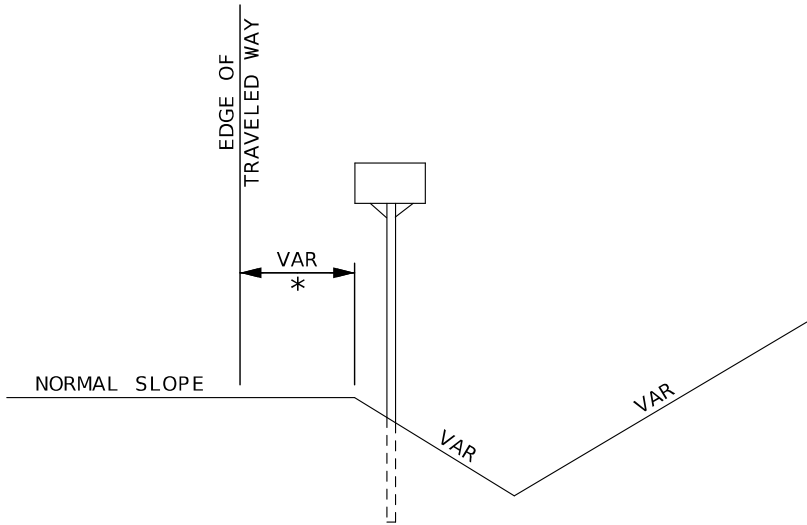
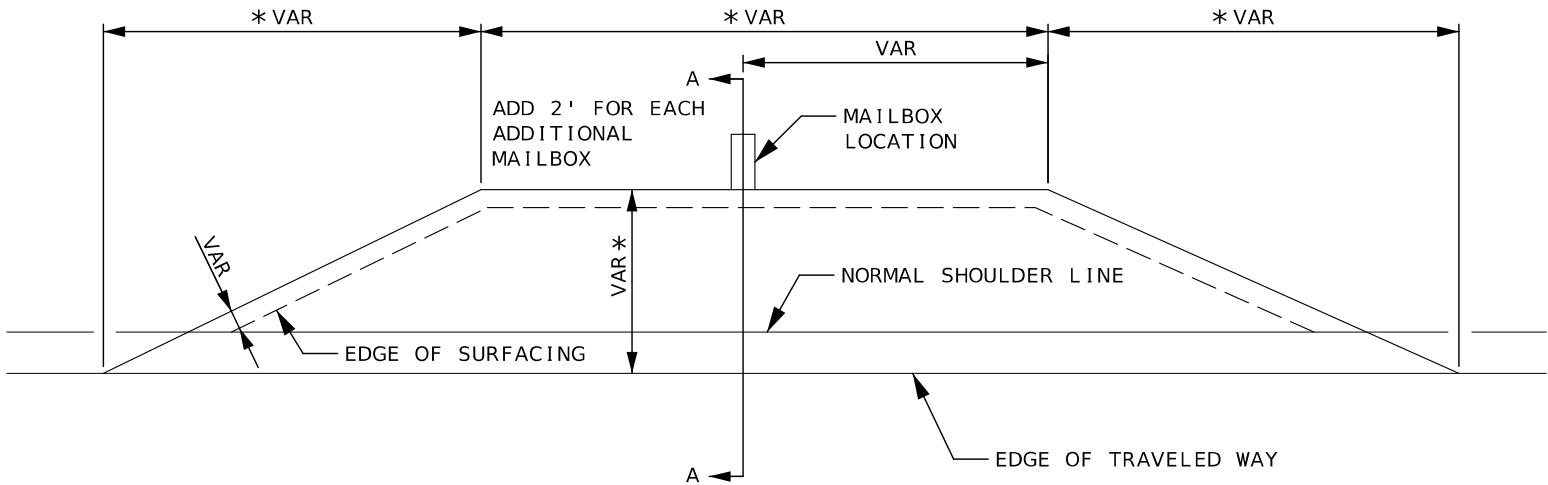
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTE: MAILBOX TURNOUT QUANTITIES BASED ON 2' WIDTH AND 15' LENGTH. ADD 2' IN LENGTH PER ADDITIONAL MAILBOX AT SAME LOCATION, AS APPROVED BY THE ENGINEER.

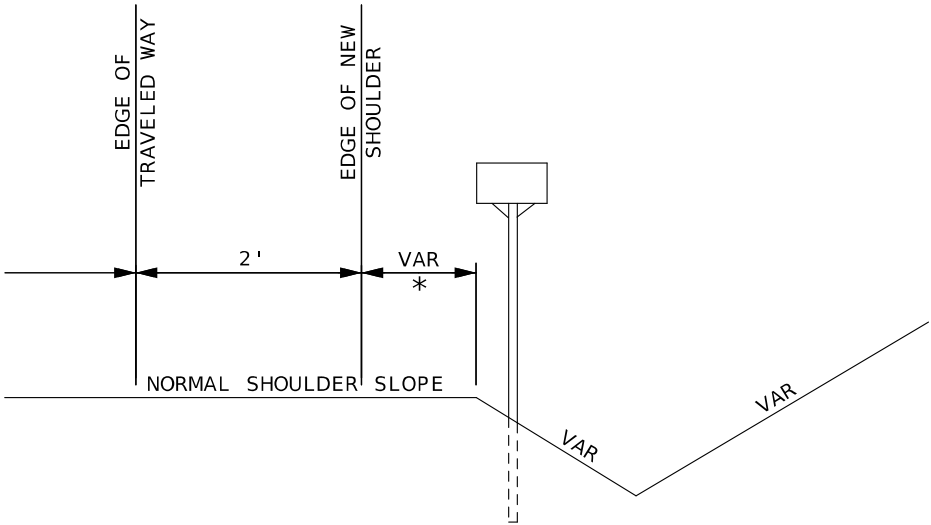
REVISED: 3/7/2023

TYPICAL MAILBOX TURNOUT

\* AS APPROVED BY THE ENGINEER



SECTION A-A  
NO SHOULDER



SECTION A-A  
SHOULDER

STATE OF MISSOURI

ANDREW BOWMAN

NUMBER

PE-202000011

PROFESSIONAL ENGINEER

07/31/2023 3:06:26 PM

ANDREW BOWMAN - CIVIL

MO-PE-202000011

DATE PREPARED

7/5/2023

ROUTE

7

STATE

MO

DISTRICT

SW

SHEET NO.

2

COUNTY

BENTON

JOB NO.

J7P3490

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

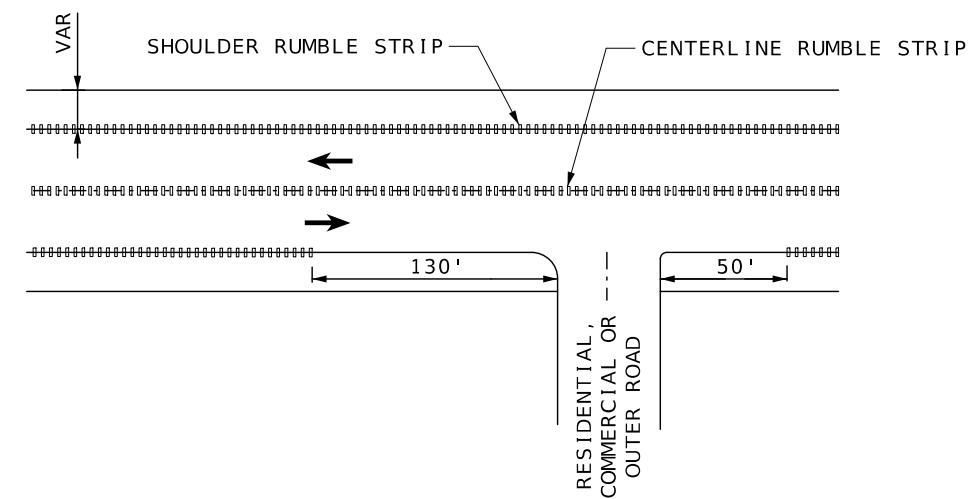
1-888-ASK-MODOT (1-888-275-6636)

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



AS APPROVED BY THE ENGINEER, A 6" MINI RUMBLE STRIP  
MAY BE USED WHERE A 12" RUMBLE STRIP DOES NOT FIT.

Diagram illustrating the cross-section of a concrete curb and gutter. The curb is 12" high and 6" wide. The gutter is 6" wide. The existing pavement is shown on the left, and the final surface is shown on the right. The curb is labeled "EOS" and the gutter is labeled "EOP".



STATE OF MISSOURI  
ANDREW BOWMAN  
NUMBER  
PE-2020000011  
PROFESSIONAL ENGINEER  
Andrew Bowman  
08/30/2023 11:06:51 AM  
ANDREW BOWMAN - CIVIL  
MO RE 2020000011

DATE PREPARED  
7/5/2023

ROUTE 7	STATE MO
------------	-------------

DISTRICT	SHEET NO.
SW	2

COUNTY  
BENTON

JOB NO.  
J7P3490

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

PROJECT NO.

BRIDGE NO.					

[illegible]

--	--	--	--	--	--	--

ION

SCRIPT					

[illegible]

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

TE						
----	--	--	--	--	--	--


DA						
----	--	--	--	--	--	--

ION  
TOL  
5102

CAPITAL MO 65

WEST  
ITYTRAN  
N  
105  
ON CAND  
SSION  
EERS

GHW  
CO



2	✓
---	---

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

--	--

STATE OF MISSOURI  
ANDREW BOWMAN  
NUMBER  
PE-2020000011  
PROFESSIONAL ENGINEER  
08/30/2023 11:06:51 AM  
ANDREW BOWMAN - CIVIL

BRIDGE NO.

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

TYPICAL SECTIONS  
SHEET 7 OF 7



PAVEMENT RESURFACING								
BEGIN	END	LENGTH	WIDTH	AREA	AREA	1.25" BP-2	TACK COAT	REMARKS
LOG MILE	LOG MILE	(MI)	(FT)	(SQFT)	(SQYD)	1.985 TONS/CY	(GAL)	(TON)
MO 7								
113.969	113.993	0.024	VAR.	3884.7	431.6	29.75	43.2	BEGINNING TRANSITION
113.993	117.052	3.059	26	419939.5	46659.9	3215.97	3732.8	MAINLINE 2' SHOULDERS
117.052	117.312	0.260	32	43929.6	4881.1	336.42	390.5	MAINLINE 5' SHOULDERS
117.312	117.336	0.024	32	4055.0	450.6	31.06	45.1	BRIDGE A4312 TRANSITION
117.336	117.370	0.034	32	5744.6	638.3	-	-	BRIDGE A4312 EXCEPTION
117.370	117.394	0.024	32	4055.0	450.6	31.06	45.1	BRIDGE A4312 TRANSITION
117.394	117.472	0.078	32	13178.9	1464.3	100.92	117.1	MAINLINE 5' SHOULDERS
117.472	122.380	4.908	26	673770.2	74863.4	5159.86	5989.1	MAINLINE 2' SHOULDERS
122.380	122.633	0.253	40	53433.6	5937.1	409.21	475.0	MAINLINE 9' SHOULDERS
122.633	122.657	0.024	40	5068.8	563.2	38.82	56.3	BRIDGE A5942 TRANSITION
122.657	122.729	0.072	40	15206.4	1689.6	-	-	BRIDGE A5942 EXCEPTION
122.729	122.753	0.024	40	5068.8	563.2	38.82	56.3	BRIDGE A5942 TRANSITION
122.753	122.938	0.185	40	39072.0	4341.3	299.22	347.3	MAINLINE 9' SHOULDERS
122.938	123.636	0.698	26	95821.4	10646.8	733.82	851.7	MAINLINE 2' SHOULDERS
123.636	123.867	0.231	40	48787.2	5420.8	373.62	433.7	MAINLINE 9' SHOULDERS
123.867	123.891	0.024	40	5068.8	563.2	38.82	56.3	BRIDGE A5943 TRANSITION
123.891	123.976	0.085	40	17952.0	1994.7	-	-	BRIDGE A5943 EXCEPTION
123.976	124.000	0.024	40	5068.8	563.2	38.82	56.3	BRIDGE A5943 TRANSITION
124.000	124.371	0.371	40	78355.2	8706.1	600.06	696.5	MAINLINE 9' SHOULDERS
124.371	129.284	4.895	26	671985.6	74665.1	5146.19	5973.2	MAINLINE 2' SHOULDERS
129.284	129.308	0.024	26	3294.7	366.1	25.23	36.6	END TRANSITION
RTE. PP								
3.106	3.120	0.014	VAR.	4260.5	473.4	32.63	37.9	APPRON & ASPHALT TRANSITION (COLD MIX)
RTE. M								
10.201	10.213	0.012	VAR.	3246.6	360.7	24.86	36.1	APPRON & TRANSITION
RTE. VV								
0.001	0.019	0.018	VAR.	3980.2	442.2	30.48	35.4	APPRON & ASPHALT TRANSITION (COLD MIX)
RTE. DD								
5.883	5.899	0.016	VAR.	5088.9	565.4	38.97	56.5	APPRON & TRANSITION
RTE. AA								
12.495	12.516	0.021	VAR.	4366.1	485.1	33.43	48.5	APPRON & TRANSITION
TACK ESTIMATED @ 0.10 GALS PER SQYD FOR COLDMILLING								
& 0.08 GALS PER SQYD FOR ALL OTHERS								
IRREGULARITIES								
					346.0	28.62	-	MAILBOX, ROADS, & ENTRANCES 2' WIDE
113.969	129.308	15.339				1150.43	-	IRREGULAEITIES 75 TONS/MILE
					TOTAL	17987.09	19616.5	
					USE	17987.1	19617	
NOTE: ANY AND ALL IRREGULARITIES MAY BE UNDERRUN AND NO ADJUSTMENT TO ANY UNIT BID COST WILL BE MADE								

MODIFIED COLD MILLING (DEPTH TRANSITION)						
BEGIN	END	LENGTH	WIDTH	AREA	AREA	REMARKS
LOG MILE	LOG MILE	(MI)	(FT)	(SQFT)	(SQYD)	
MO 7						
113.969	113.993	0.024	VAR.	3887.2	431.9	TRANSITION 1.25" TO 0.0"
117.312	117.336	0.024	32	4000.0	444.4	TRANSITION 0.0" TO 1.25"
117.37	117.394	0.024	32	4000.0	444.4	TRANSITION 1.25" TO 0.0"
122.633	122.657	0.024	40	5000.0	555.6	TRANSITION 0.0" TO 1.25"
122.729	122.753	0.024	40	5000.0	555.6	TRANSITION 1.25" TO 0.0"
123.867	123.891	0.024	40	5000.0	555.6	TRANSITION 0.0" TO 1.25"
123.976	124.000	0.024	40	5000.0	555.6	TRANSITION 1.25" TO 0.0"
129.284	129.308	0.024	24	3000.0	333.3	TRANSITION 0.0" TO 1.25"
RTE. M						
10.201	10.209	0.008	24	3000.0	333.3	TRANSITION 1.25" TO 0.0"
RTE. DD						
5.883	5.891	0.008	24	3000.0	333.3	TRANSITION 1.25" TO 0.0"
RTE. AA						
12.495	12.503	0.008	24	3000.0	333.3	TRANSITION 1.25" TO 0.0"
				TOTAL	4543.0	
				USE	4543	

GRAVEL (A) OR CRUSHED STONE (B)		
ROUTE	ITEM	(TON)
7	GAVEL OR CRUSHED STONE	536
	TOTAL	536

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

PERMANENT AGGREGATE EDGE TREATMENT						
BEGIN	END	LENGTH	WIDTH	AREA	AGGREGATE	PRIME LIQUID
LOG MILE	LOG MILE	(MI)	(FT)	(SQYD)	200 TONS/MILE	ASPHALT MC 800
					(TON)	590 GAL/MILE
						(GAL)
113.969	129.308	15.339	4	35995.5	3067.80	9050.0
				TOTAL	3067.80	9050.0
				USE	3067.8	9050

SUMMARY OF QUANTITIES  
SHEET 1 OF 3

STATE OF MISSOURI

ANDREW BOWMAN

NUMBER

PE-2020000011

PROFESSIONAL ENGINEER

08/30/2023 11:06:51 AM

ANDREW BOWMAN - CIVIL

MO-PE-2020000011

DATE PREPARED

8/29/2023

ROUTE

7

STATE

MO

DISTRICT

SW

SHEET NO.

3

COUNTY

BENTON

JOB NO.

J7P3490

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS					
BEGIN LOG MILE	END LOG MILE	LOCATION	4" WHITE (L.F.)	4" YELLOW (L.F.)	REMARKS
MO 7					
113.969	129.308	RT	80989.9		RIGHT EDGELINE
113.969	129.308	LT	80989.9		LEFT EDGELINE
113.969	129.308	CL		161979.8	DOUBLE SOLID CENTERLINE
		TOTAL	161979.8	161979.8	
		USE	161980	161980	

BITUMINOUS RUMBLE STRIPS					
BEGIN LOG MILE	END LOG MILE	LENGTH (LF)	CENTER LINE (STA.)	SHOULDER (STA.)	REMARKS
MO 7					
LEFT SIDE					
113.969	129.308	80989.92		722.75	EDGE OF TRAVELWAY
RIGHT SIDE					
113.969	129.308	80989.92		732.96	EDGE OF TRAVELWAY
CENTER					
113.969	129.308	80989.92	799.70		CENTER LINE
		TOTAL	799.70	1455.71	
		USE	799.7	1455.8	

REMOVAL OF IMPROVEMENTS					
LOG MILE	LOCATION	DESCRIPTON	UNITS	TOTAL	REMARKS
122.480	RT	GUARDRAIL	LF	650.0	CWT, GUARDRAIL, & END ANCHOR
122.592	RT	GUARDRAIL	LF	375.0	END ANCHOR, GUARDRAIL, & BRIDGE ANCHOR
122.637	LT	GUARDRAIL	LF	112.5	CWT, GUARDRAIL, & BRIDGE ANCHOR
122.726	LT	GUARDRAIL	LF	1100.0	BRIDGE ANCHOR, GUARDRAIL, & CWT
122.727	RT	GUARDRAIL	LF	700.0	BRIDGE ANCHOR, GUARDRAIL, & CWT
122.802	LT	GUARDRAIL	LF	750.0	GUARDRAIL & 2 CWT
123.861	RT	GUARDRAIL	LF	250.0	CWT, GUARDRAIL, & BRIDGE ANCHOR
123.878	LT	GUARDRAIL	LF	112.5	CWT, GUARDRAIL, & BRIDGE ANCHOR
123.960	LT	GUARDRAIL	LF	250.0	BRIDGE ANCHOR, GUARDRAIL, & END ANCHOR
123.968	RT	GUARDRAIL	SY	162.5	BRIDGE ANCHOR, GUARDRAIL, & CWT
124.004	LT	GUARDRAIL	LF	100.0	END ANCHOR, GUARDRAIL, & CWT
1 LUMP SUM					

GAURDRAIL						
BEGIN LOG MILE	END LOG MILE	GUARDRAIL (LF)	END ANCHOR (EACH)	BRIDGE TRANSITION (EACH)	CWT (EACH)	SHAPING SLOPES CLASS III (100FT)
MO 7						
LEFT SIDE						
122.637	122.659	25.0		1	1	1
122.726	122.795	1012.5		1	1	1
122.802	122.889	650.0			2	2
123.878	123.899	25.0		1	1	1
123.968	124.000	162.5	1	1		
124.004	124.021	62.5	1		1	1
RIGHT SIDE						
122.480	122.589	562.5	1		1	1
122.592	122.661	350.0	1	1		
122.727	122.874	612.5		1	1	1
123.861	123.907	162.5		1	1	1
123.960	123.989	75.0		1	1	1
	TOTAL	3700.0	4	8	10	10
	USE	3700	4	8	10	10

STATE OF MISSOURI

ANDREW BOWMAN

NUMBER

PE-2020000011

PROFESSIONAL ENGINEER

08/30/2023 11:08:51 AM

ANDREW BOWMAN - CIVIL

MO-PE-2020000011

DATE PREPARED

8/29/2023

ROUTE

7

STATE

MO

DISTRICT

SW

SHEET NO.

3

COUNTY

BENTON

JOB NO.

J7P3490

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

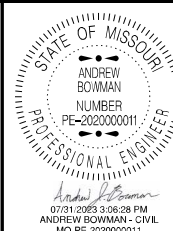
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.

REVISED: 4/18/2023



DATE PREPARED

7/5/2023

ROUTE

7

STATE

MO

DISTRICT

SW

SHEET NO.

4

COUNTY

BENTON

JOB NO.

J7P3490

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

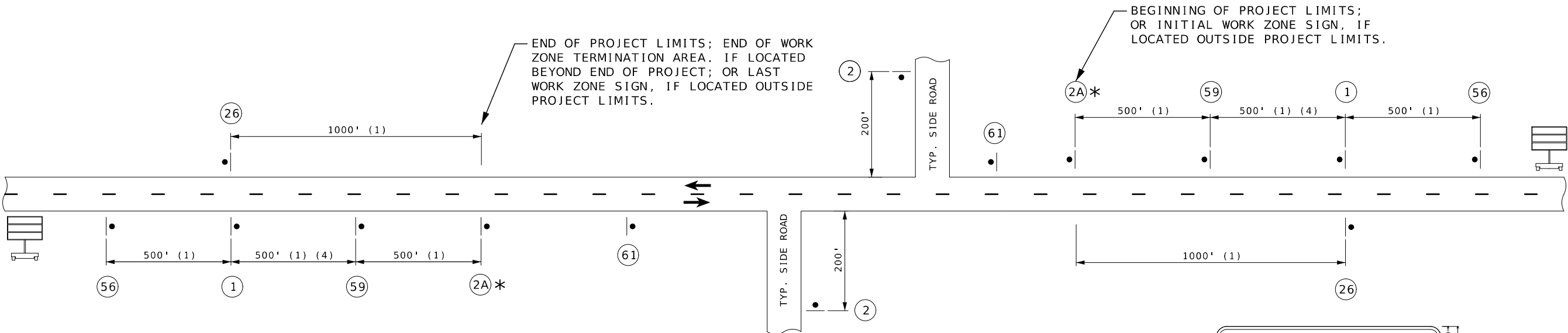
JEFFERSON CITY, MO 65102

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

MODOT

COMMISSION

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



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

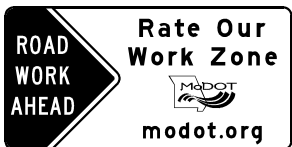
(2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(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 (UNDIVIDED HIGHWAY)



CONST-7-48

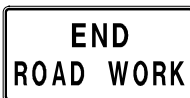
(56) (2)



WO20-1



(2A) \*



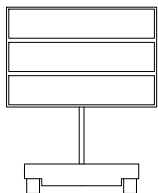
GO20-2

(26)

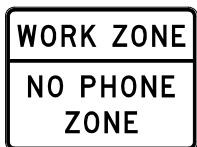


WO20-1

(2)

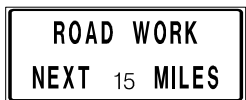


(5)



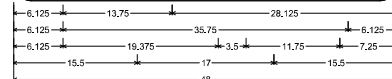
CONST-8

(59) (4)



GO20-1

(1)



CONST-5-48 SH-FLAT SHEET:

2.250" Radius, 0.625" Border, White on, Blue:

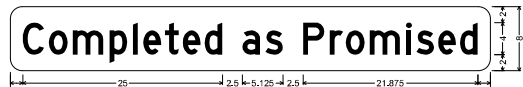
"Road", D: "Resurfacing", D: "Summer 2024", D:

Table of letter and object heights

Letter	Height	Width	Depth	Radius	Border	Color
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue
R	6.125	10.250	13.625	17.375	0.625	White on, Blue

CONST-5-48

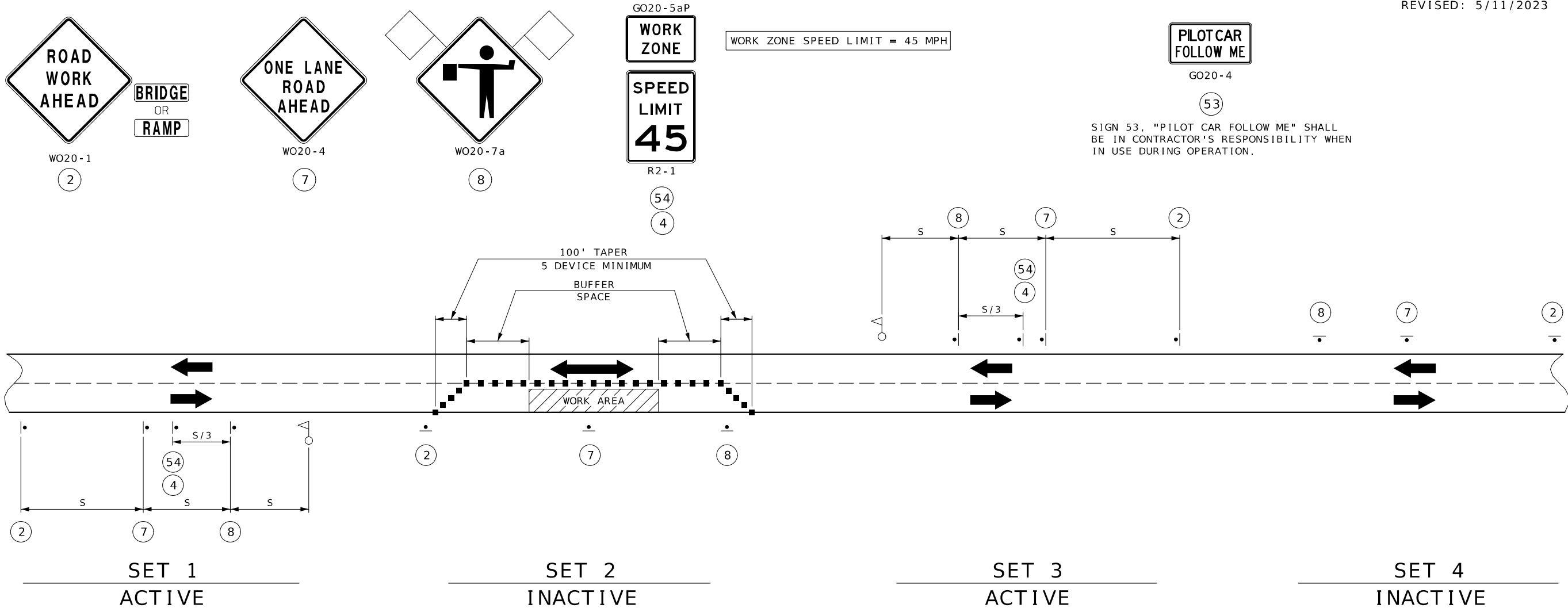
(61) (3)



Letter	Height	Width	Depth	Radius	Border	Color
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625
C	1.500	4.875	7.875	12.375	15.375	16.625

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 1 OF 7



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

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

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC.

WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

■ - CHANNELIZERS

△ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

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

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/ WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING NOTES:

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

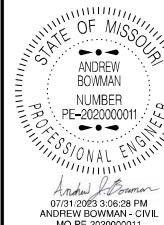
SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

## MOVING FLAGGER OPERATION (UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 2 OF 7

REVISED: 5/11/2023



DATE PREPARED

7/5/2023

ROUTE

7

STATE

MO

DISTRICT

SW

SHEET NO.

5

COUNTY

BENTON

JOB NO.

J7P3490

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE



STATE OF MISSOURI  
ANDREW BOWMAN  
NUMBER PE-202000011  
PROFESSIONAL ENGINEER  
07/31/2023 3:06:28 PM  
ANDREW BOWMAN - CIVIL

BRIDGE NO.

\_\_\_\_\_



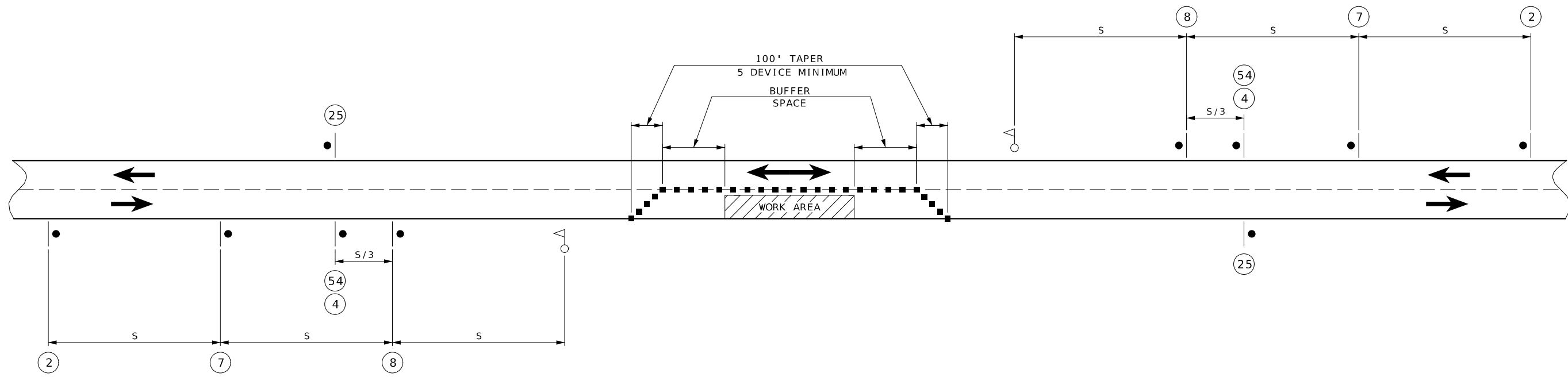
**BRIDGE**  
OR  
**RAMP**



GO20-5aP

**WORK  
ZONE**

**SPEED  
LIMIT  
45**

A rectangular white speed limit sign with a black border. The text "SPEED" and "LIMIT" are in black, sans-serif, uppercase letters. The number "55" is in a larger, bold, black, sans-serif font.

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/ WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

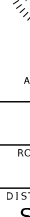
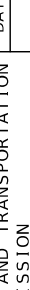
SPACINGS MAY BE ADJUSTED AS NECESSARY TO  
MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

TRAFFIC CONTROL  
SHEET 3 OF 7

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

TRAFFIC CONTROL  
SHEET 4 OF 7

	
DATE PREPARED <b>7/5/2023</b>	
ROUTE <b>7</b>	STATE <b>MO</b>
DISTRICT <b>SW</b>	SHEET NO. <b>7</b>
COUNTY <b>BENTON</b>	
JOB NO. <b>J7P3490</b>	
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  
ANDREW BOWMAN  
NUMBER PE-202000011  
PROFESSIONAL ENGINEER  
07/31/2023 3:06:28 PM  
ANDREW BOWMAN - CIVIL

BRIDGE NO.

\_\_\_\_\_



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





SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	70	245	280	35	40
40-45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

NOTES:

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.  
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.  
(3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



WO20-1  
(2)



WO21-5  
(21)



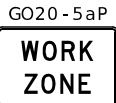
WO5-1



WO7-3a

(43) \*

\* OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.



GO20-5aP



(54)  
(4)

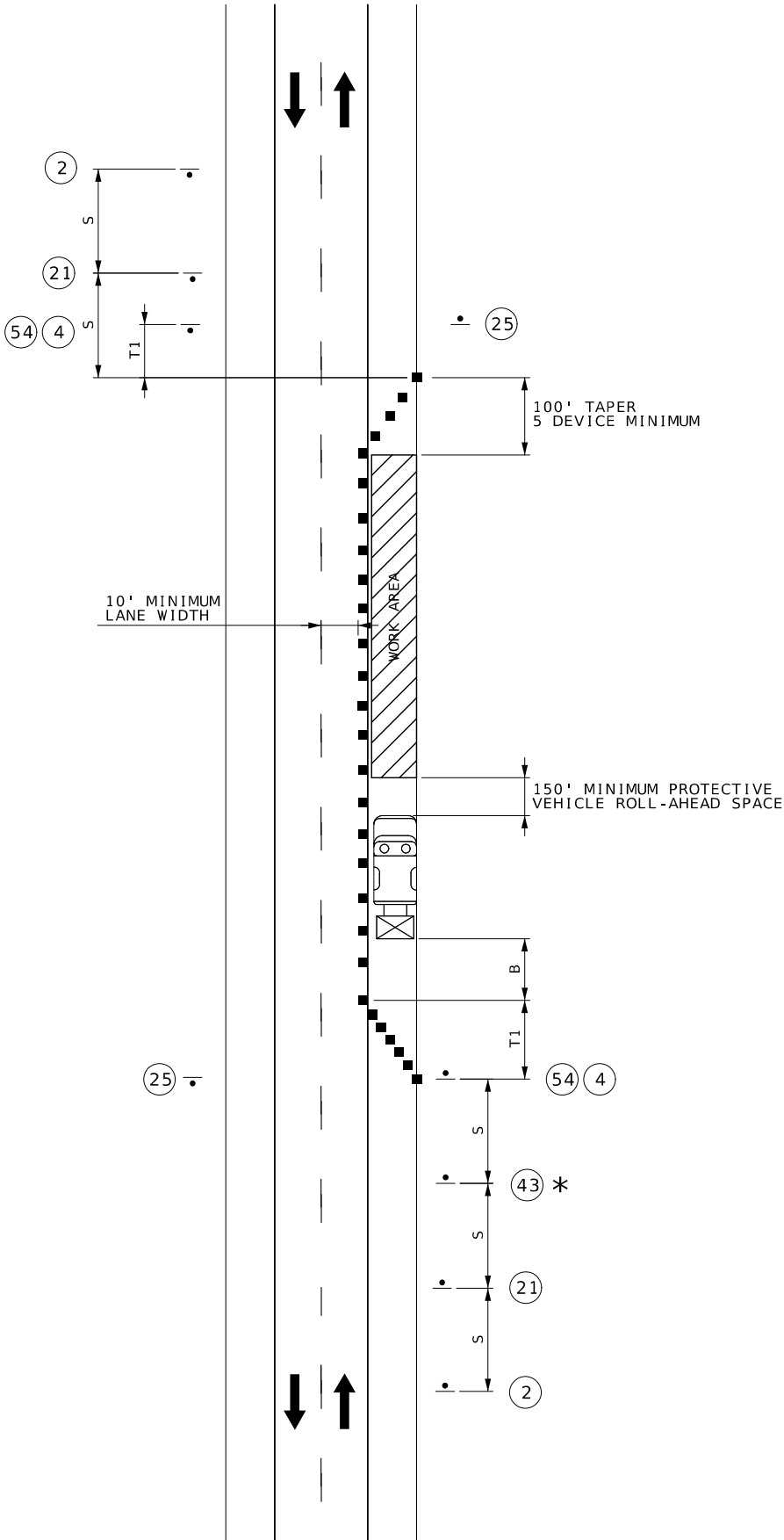


R2-1

(25)  
(NORMAL SPEED)

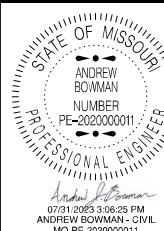
SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT  
OR NO ENCROACHMENT  
(UNDIVIDED HIGHWAY)

REVISED: 5/11/2023



NOT TO SCALE

TRAFFIC CONTROL  
SHEET 7 OF 7



DATE PREPARED 7/5/2023	
ROUTE 7	STATE MO
DISTRICT SW	SHEET NO. 10
COUNTY BENTON	
JOB NO. J7P3490	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

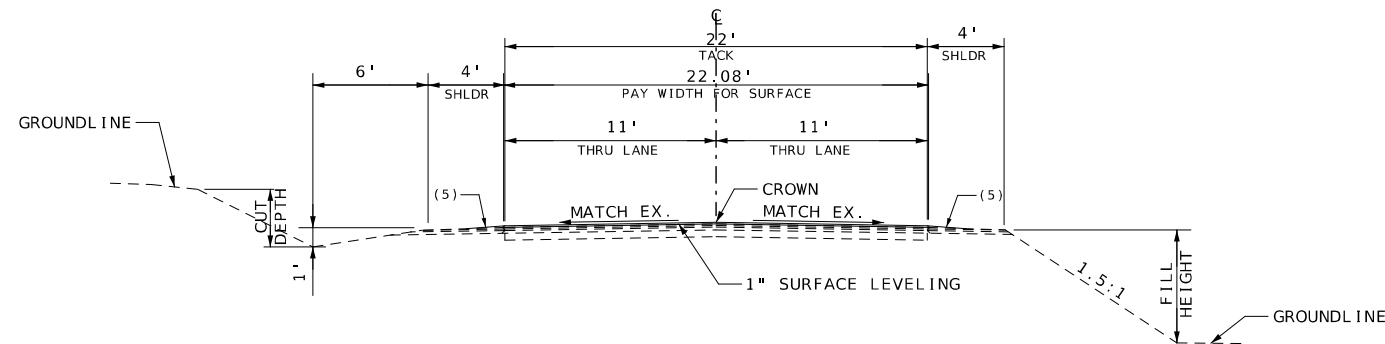
MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

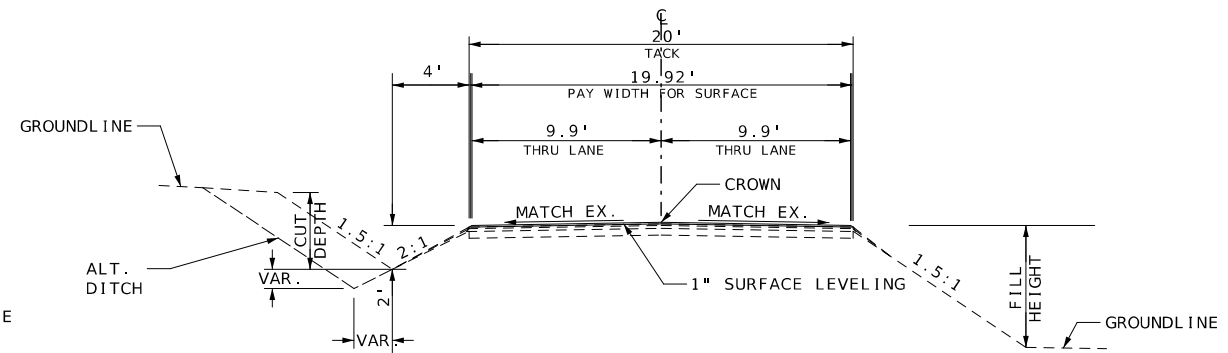
MoDOT

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

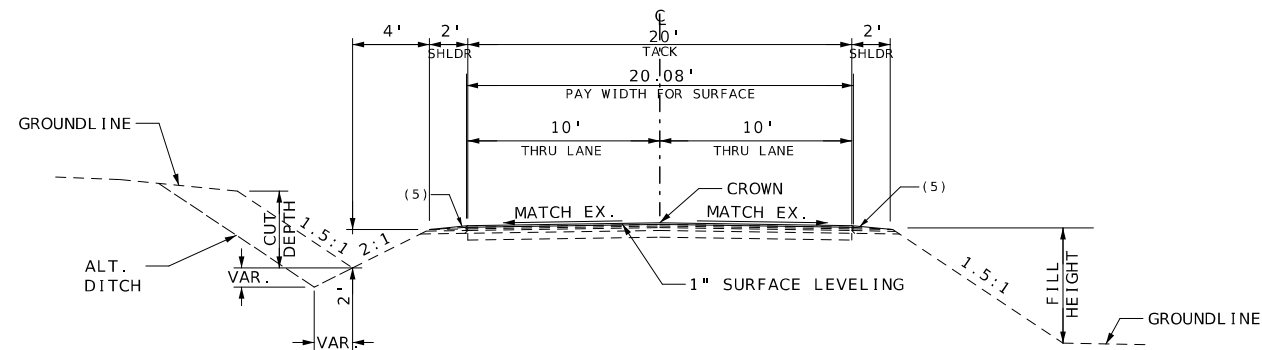




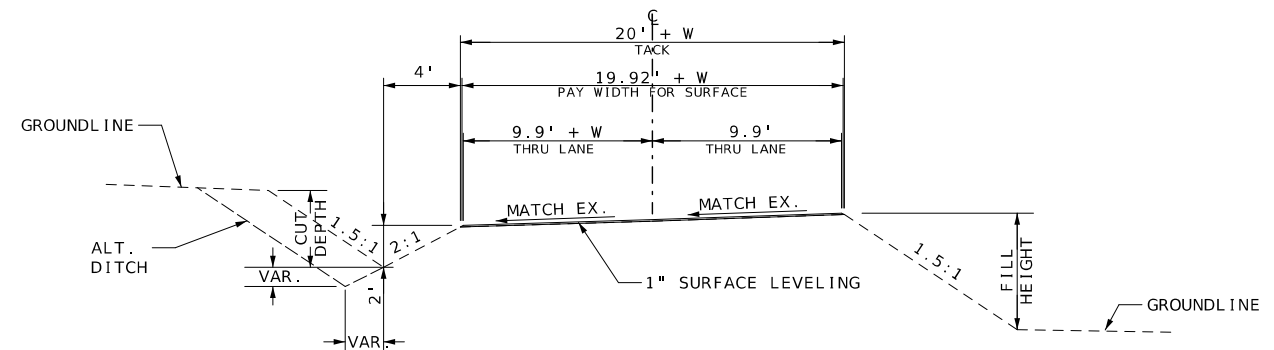
SECTION ON TANGENT  
ROUTE DD  
LOGMILE 0.445 TO LOGMILE 0.510



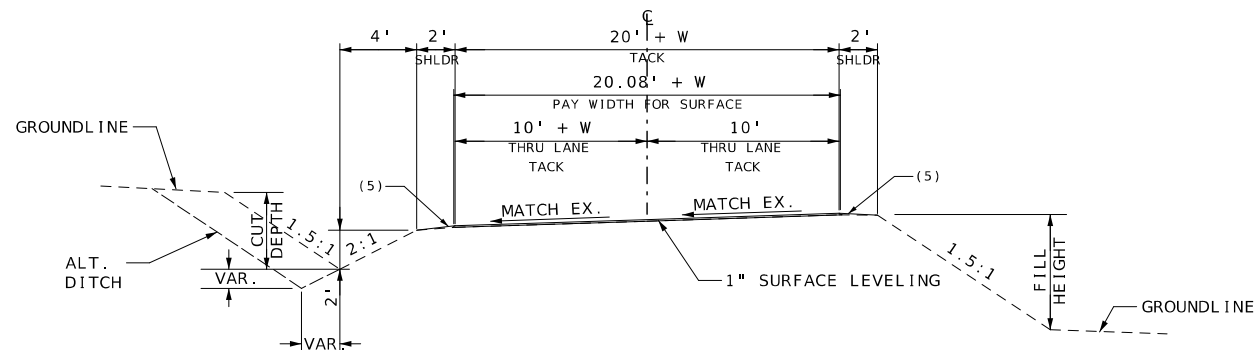
SECTION ON TANGENT  
ROUTE NN  
LOGMILE 0.017 TO LOGMILE 3.295



SECTION ON TANGENT  
ROUTE DD  
LOGMILE 0.018 TO LOGMILE 0.445  
  
ROUTE Z  
LOGMILE 0.010 TO LOGMILE 5.300  
EXCEPTION (BRIDGE): LOGMILE 0.812 TO LOGMILE 0.833

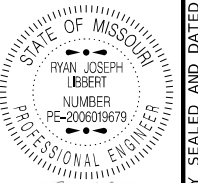


SECTION ON CURVE  
ROUTE NN



SECTION ON CURVE  
ROUTE DD  
ROUTE Z

- NOTES:
- (1) FOR INFORMATION PURPOSES ONLY:  
ESTIMATE FACTOR FOR SURFACE LEVELING = 2.00 T/CY  
ESTIMATE FACTOR FOR TACK = 0.08 GAL/SY  
ESTIMATE FACTOR FOR GRAVEL (A) OR CRUSHED STONE (B) = 0.039 T/SY/Inch  
ESTIMATE FACTOR FOR PERMANENT AGGREGATE EDGE TREATMENT = 0.058 T/SY/Inch
  - (2) SURFACE PLACEMENT SHALL BE ONE PASS PER LANE.
  - (3) APPLY TACK COAT UNDER ALL SURFACE LEVELING.
  - (4) CURVE WIDENING "W" IS USED FOR CALCULATION PURPOSES ONLY. MATCH RESURFACING WIDTH ALONG CURVES WITH THE EXISTING PAVEMENT WIDTH IN THE FIELD.
  - (5) AGGREGATE EDGE PROVIDED BY OTHERS.



DATE PREPARED  
6/27/2023

ROUTE VAR. STATE MO  
DISTRICT CD SHEET NO. 2

COUNTY  
CAMDEN

JOB NO.  
JCD0138

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.



BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)									
CURVE ID	LOGMILE		LOCATION	LENGTH (FT)	PAY WIDTH (FT)	AREA (SY)	DEPTH (IN)	PMBP (TONS)	REMARKS
	FROM	TO							
RTE DD									
	0.018	0.445	RTE DD	2,254.56	20.14	5045.2	1	280.3	BEGIN PROJECT
	0.445	0.510	RTE DD	343.20	22.14	844.3	1	46.9	END PROJECT
ADDITIONAL QUANTITIES DUE TO ENTRANCES									
	0.103		RTE DD - Lt.	40.00	2	8.9	1	0.5	PRIVATE ENTRANCE
ROUTE DD SUBTOTAL								327.7	
PERCENT OF IRREGULARITIES								11%	
ADDDITIONAL QUANTITY DUE TO PAVEMENT IRREGULARITIES								36.0	
ROUTE DD TOTAL								363.7	
ROUTE DD USE								363.7	

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)									
CURVE ID	LOGMILE		LOCATION	LENGTH (FT)	PAY WIDTH (FT)	AREA (SY)	DEPTH (IN)	PMBP (TONS)	REMARKS
	FROM	TO							
RTE NN									
	0.017	3.295	RTE NN	17,307.84	19.92	38308.0	1	2,128.2	BEGIN TO END OF PROJECT
ADDITIONAL QUANTITIES DUE TO CURVE WIDENING									
A	1.126	1.286	RTE NN	844.80	VAR.	154.9	1	8.6	
B	3.126	3.269	RTE NN	755.04	VAR.	134.9	1	7.5	
ADDITIONAL QUANTITIES DUE TO ENTRANCES									
	3.111		RTE NN - Rt.	43.00	2	9.6	1	0.5	PRIVATE ENTRANCE
ROUTE NN SUBTOTAL								2,144.8	
PERCENT OF IRREGULARITIES								25%	
ADDDITIONAL QUANTITY DUE TO PAVEMENT IRREGULARITIES								536.2	
ROUTE NN TOTAL								2,681.0	
ROUTE NN USE								2,681.0	

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)									
CURVE ID	LOGMILE		LOCATION	LENGTH (FT)	PAY WIDTH (FT)	AREA (SY)	DEPTH (IN)	PMBP (TONS)	REMARKS
	FROM	TO							
RTE Z									
	0.010	0.812	RTE Z	4,234.56	20.08	9447.8	1	524.9	BEGIN PROJECT
	0.812	0.833	RTE Z	110.88					BRIDGE B0344 EXCEPTION
	0.833	5.300	RTE Z	23,585.76	20.08	52622.5	1	2,923.5	END PROJECT
ADDITIONAL QUANTITIES DUE TO CURVE WIDENING									
A	0.649	0.739	RTE Z	475.20	VAR.	74.2	1	4.1	
B	0.849	0.952	RTE Z	543.84	VAR.	89.8	1	5.0	
C	1.033	1.114	RTE Z	427.68	VAR.	63.4	1	3.5	
D	1.360	1.444	RTE Z	443.52	VAR.	67.0	1	3.7	
E	1.448	1.522	RTE Z	390.72	VAR.	55.1	1	3.1	
F	1.528	1.886	RTE Z	1890.24	VAR.	394.9	1	21.9	
G	1.925	1.986	RTE Z	322.08	VAR.	39.5	1	2.2	
H	2.387	2.467	RTE Z	422.40	VAR.	62.2	1	3.5	
I	2.487	2.557	RTE Z	369.60	VAR.	50.3	1	2.8	
J	2.943	3.159	RTE Z	1140.48	VAR.	225.0	1	12.5	
K	3.229	3.356	RTE Z	670.56	VAR.	118.5	1	6.6	
L	3.360	3.491	RTE Z	691.68	VAR.	123.3	1	6.9	
M	3.702	3.768	RTE Z	348.48	VAR.	45.5	1	2.5	
N	3.945	4.06	RTE Z	607.20	VAR.	104.1	1	5.8	
O	4.731	4.839	RTE Z	570.24	VAR.	95.7	1	5.3	
P	4.964	5.052	RTE Z	464.64	VAR.	71.8	1	4.0	
ADDITIONAL QUANTITIES DUE TO ENTRANCES									
	3.032		RTE Z - Lt.	109.00	2	24.2	1	1.3	COFFMAN BEND DR.
	5.272		RTE Z - Lt.	26.00	2	5.8	1	0.3	Z7 TRADING POST ENTRANCE 1
	5.288		RTE Z - Lt.	48.00	2	10.7	1	0.6	Z7 TRADING POST ENTRANCE 2
ROUTE Z SUBTOTAL								3,544.0	
PERCENT OF IRREGULARITIES								18%	
ADDDITIONAL QUANTITY DUE TO PAVEMENT IRREGULARITIES								637.9	
ROUTE Z TOTAL								4,181.9	
ROUTE Z USE								4,181.9	

TACK								
CURVE ID	LOGMILE		LOCATION	LENGTH ( FT )	WIDTH ( FT )	AREA ( SY )	TACK ( GAL )	REMARKS
	FROM	TO						
RTE DD								
	0.018	0.445	RTE DD	2,254.56	20	5010.1	400.8	BEGIN PROJECT
	0.445	0.510	RTE DD	343.20	22	838.9	67.1	END PROJECT
ADDITIONAL QUANTITIES DUE TO ENTRANCES								
	0.103		RTE DD - Lt.	40.00	2	8.9	0.7	PRIVATE ENTRANCE
ROUTE DD SUBTOTAL							468.6	
ROUTE DD TOTAL							468.6	
ROUTE DD USE							469	

TACK								
CURVE ID	LOGMILE		LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	TACK (GAL)	REMARKS
	FROM	TO						
RTE NN								
	0.017	3.295	RTE NN	17,307.84	20	38461.9	3,077.0	BEGIN TO END OF PROJECT
ADDITIONAL QUANTITIES DUE TO CURVE WIDENING								
A	1.126	1.286	RTE NN	844.80	VAR.	154.9	12.4	
B	3.126	3.269	RTE NN	755.04	VAR.	134.9	10.8	
ADDITIONAL QUANTITIES DUE TO ENTRANCES								
	3.111		RTE NN - Rt.	43.00	2	9.6	0.8	PRIVATE ENTRANCE
ROUTE NN SUBTOTAL							3,101.0	
ROUTE NN TOTAL							3,101.0	
ROUTE NN USE							3,101	

TACK								
CURVE ID	LOGMILE		LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	TACK (GAL)	REMARKS
	FROM	TO						
RTE Z								
	0.010	0.812	RTE Z	4,234.56	20	9410.1	752.8	BEGIN PROJECT
	0.812	0.833	RTE Z	110.88				BRIDGE B0344 EXCEPTION
	0.833	5.300	RTE Z	23,585.76	20	52412.8	4,193.0	END PROJECT
ADDITIONAL QUANTITIES DUE TO CURVE WIDENING								
A	0.649	0.739	RTE Z	475.20	VAR.	72.7	5.8	
B	0.849	0.952	RTE Z	543.84	VAR.	88.0	7.0	
C	1.033	1.114	RTE Z	427.68	VAR.	62.2	5.0	
D	1.360	1.444	RTE Z	443.52	VAR.	65.7	5.3	
E	1.448	1.522	RTE Z	390.72	VAR.	54.0	4.3	
F	1.528	1.886	RTE Z	1890.24	VAR.	387.2	31.0	
G	1.925	1.986	RTE Z	322.08	VAR.	38.7	3.1	
H	2.387	2.467	RTE Z	422.40	VAR.	61.0	4.9	
I	2.487	2.557	RTE Z	369.60	VAR.	49.3	3.9	
J	2.943	3.159	RTE Z	1140.48	VAR.	220.6	17.6	
K	3.229	3.356	RTE Z	670.56	VAR.	116.2	9.3	
L	3.360	3.491	RTE Z	691.68	VAR.	120.9	9.7	
M	3.702	3.768	RTE Z	348.48	VAR.	44.6	3.6	
N	3.945	4.06	RTE Z	607.20	VAR.	102.1	8.2	
O	4.731	4.839	RTE Z	570.24	VAR.	93.9	7.5	
P	4.964	5.052	RTE Z	464.64	VAR.	70.4	5.6	
ADDITIONAL QUANTITIES DUE TO ENTRANCES								
	3.032		RTE Z - Lt.	109.00	2	24.2	1.9	COFFMAN BEND DR.
	5.272		RTE Z - Lt.	26.00	2	5.8	0.5	Z7 TRADING POST ENTRANCE 1
	5.288		RTE Z - Lt.	48.00	2	10.7	0.9	Z7 TRADING POST ENTRANCE 2
ROUTE Z SUBTOTAL							5,080.9	
ROUTE Z TOTAL							5,080.9	
ROUTE Z USE							5,081	

MOBILIZATION

1 LUMP SUM

STATE OF MISSOURI

RYAN JOSEPH LIBBERT

NUMBER

PE-2006019679

PROFESSIONAL ENGINEER

07/28/2023 7:01:17 AM

RYAN JOSEPH LIBBERT - CIVIL

MO-PE-2006019679

DATE PREPARED

6/27/2023

ROUTE

VAR.

DISTRICT

CD

STATE

MO

SHEET NO.

3

COUNTY

CAMDEN

JOB NO.

JCD0138

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.

GRAVEL (A) OR CRUSHED STONE (B)								
LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	TOP AREA (SY)	AVG. DEPTH (IN)	QUANTITY (TONS)	REMARKS
RTE Z								
0.010	5.300	RTE Z - Lt.	635	2	141.1	3.000	16.5	22 AGGREGATE DRIVEWAYS OR ROADS
0.010	5.300	RTE Z - Rt.	610	2	135.6	3.000	15.9	15 AGGREGATE DRIVEWAYS OR ROADS
RTE Z - ADDITIONAL QUANTITIES DUE TO MAILBOX TURNOUTS								
0.010	5.300	RTE Z - Lt.	300	2	66.7	3.500	9.1	5 TURNOUTS
0.010	5.300	RTE Z - Rt.	810	2	180.0	3.500	24.6	11 TURNOUTS
ROUTE Z SUBTOTAL							66.1	
RTE NN								
0.017	3.295	RTE NN -Lt.	450	2	100.0	3.000	11.7	12 AGGREGATE DRIVEWAYS OR ROADS
0.017	3.295	RTE NN -Rt.	820	2	182.2	3.000	21.3	19 AGGREGATE DRIVEWAYS OR ROADS
RTE NN - ADDITIONAL QUANTITIES DUE TO MAILBOX TURNOUTS								
0.017	3.295	RTE NN -Lt.	1080	2	240.0	3.500	32.8	14 TURNOUTS
0.017	3.295	RTE NN -Rt.	0	2	0.0	3.500	0.0	0 TURNOUTS
ROUTE NN SUBTOTAL							65.8	
RTE DD								
0.018	0.510	RTE DD -Lt.	165	2	36.7	3.000	4.3	4 AGGREGATE DRIVEWAYS OR ROADS
0.018	0.510	RTE DD -Rt.	240	2	53.3	3.000	6.2	7 AGGREGATE DRIVEWAYS OR ROADS
RTE DD - ADDITIONAL QUANTITIES DUE TO MAILBOX TURNOUTS								
0.018	0.510	RTE DD -Lt.	80	2	17.8	3.500	2.4	2 TURNOUTS
0.018	0.510	RTE DD -Rt.	150	2	33.3	3.500	4.5	4 TURNOUTS
ROUTE DD SUBTOTAL							17.4	
PROJECT SUBTOTAL							149.3	
PERCENT OF IRREGULARITIES							25%	
ADDDITIONAL QUANTITY DUE TO SURFACE IRREGULARITIES							37.3	
PROJECT TOTAL							186.6	
PROJECT USE							187	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)						
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	MOD. COLDMILLING (SY)	REMARKS
RTE Z						
0.803	0.812	RTE Z	50	20	111.1	BACK OF BRIDGE B0344
0.833	0.842	RTE Z	50	20	111.1	AHEAD OF BRIDGE B0344
3.032		RTE Z - Lt.	109	2	24.2	COFFMAN BEND DR.
5.272		RTE Z - Lt.	26	2	5.8	Z7 TRADING POST ENTRANCE 1
5.288		RTE Z - Lt.	48	2	10.7	Z7 TRADING POST ENTRANCE 2
ROUTE Z SUBTOTAL					262.9	
RTE NN						
3.118		RTE NN - Rt.	43	2	9.6	PRIVATE ENTRANCE
ROUTE NN SUBTOTAL					9.6	
RTE DD						
0.103		RTE DD - Lt.	40	2	8.9	COMMERCIAL ENTRANCE
0.501	0.510	RTE DD	50	22	122.2	END PROJECT (RTE. DD)
ROUTE DD SUBTOTAL					131.1	
PROJECT TOTAL					403.6	
PROJECT USE					404	

NOTE: WHERE THESE ROUTES BUTT UP TO JOB 5P3325 (CAMDEN 7) A TEMPORARY WEDGE MAY BE APPLIED FOR SMOOTH TRAFFIC TRANSITION UNTIL APPLICATION OF JOB 5P3325. PAYMENT FOR MATERIAL, EQUIPMENT, AND LABOR IS INCIDENTAL.

PAVEMENT MARKINGS						
			WATERBORNE PAINT, TYPE P BEADS			
LOG MILE FROM	LOG MILE TO	LENGTH FT	4"		4"  SOLID WHITE LF	REMARKS
			YELLOW			
			SOLID LF	INTERM. LF		
RTE Z						
0.010	5.300	27931.20	55,862.4	0.0	55,862.4	NO PASS
RTE Z SUBTOTAL			55,862.4	0.0	55,862.4	
RTE NN						
0.017	0.101	443.52	887.0	0.0	887.0	NO PASS
0.101	0.222	638.88	638.9	159.7	1,277.8	RIGHT PASS - LEFT NO PASS
0.222	0.242	105.60	211.2	0.0	211.2	NO PASS
0.242	0.389	776.16	776.2	194.0	1,552.3	RIGHT NO PASS - LEFT PASS
0.389	0.403	73.92	147.8	0.0	147.8	NO PASS
0.403	0.560	828.96	829.0	207.2	1,657.9	RIGHT PASS - LEFT NO PASS
0.560	0.600	211.20	0.0	52.8	422.4	BOTH LANES PASS
0.600	0.664	337.92	337.9	84.5	675.8	RIGHT NO PASS - LEFT PASS
0.664	0.704	211.20	0.0	52.8	422.4	BOTH LANES PASS
0.704	0.801	512.16	512.2	128.0	1,024.3	RIGHT PASS - LEFT NO PASS
0.801	0.860	311.52	0.0	77.9	623.0	BOTH LANES PASS
0.860	1.006	770.88	770.9	192.7	1,541.8	RIGHT NO PASS - LEFT PASS
1.006	2.461	7682.40	15,364.8	0.0	15,364.8	NO PASS
2.461	2.605	760.32	760.3	190.1	1,520.6	RIGHT PASS - LEFT NO PASS
2.605	2.620	79.20	158.4	0.0	158.4	NO PASS
2.620	2.759	733.92	733.9	183.5	1,467.8	RIGHT NO PASS - LEFT PASS
2.759	2.780	110.88	221.8	0.0	221.8	NO PASS
2.780	2.901	638.88	638.9	159.7	1,277.8	RIGHT PASS - LEFT NO PASS
2.901	2.941	211.20	0.0	52.8	422.4	BOTH LANES PASS
2.941	3.102	850.08	850.1	212.5	1,700.2	RIGHT NO PASS - LEFT PASS
3.102	3.295	1019.04	2,038.1	0.0	2,038.1	NO PASS
RTE NN SUBTOTAL			25,877.4	1,948.2	34,615.6	
RTE DD						
0.018	0.510	2597.76	5,195.5	0.0	5,195.5	NO PASS
RTE DD SUBTOTAL			5,195.5	0.0	5,195.5	
PROJECT TOTAL			86,935.3	1,948.2	95,673.5	
PROJECT USE			88,884		95,674	
NOTE: MATCH EXISTING PASSING ZONES. SEE JSP'S FOR LOGGING PAVEMENT MARKING						

STATE OF MISSOURI

RYAN JOSEPH LIBBERT

NUMBER

PE-2006019679

PROFESSIONAL ENGINEER

07/28/2023 7:02:14 AM

RYAN JOSEPH LIBBERT - CIVIL

MO-PE-2006019679

DATE PREPARED

6/27/2023

ROUTE

VAR.

DISTRICT

CD

STATE

MO

SHEET NO.

3

COUNTY

CAMDEN

JOB NO.

JCD0138

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

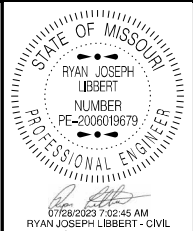
1-888-ASK-MODOT (1-888-275-6636)

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

SIGN								SIGN								ITEM		TOTAL		DESCRIPTION	
SIZE	AREA	QTY	TOTAL	RELOC	RELOC	NUM.		SIZE	AREA	QTY	TOTAL	RELOC	RELOC	NUM.		NUMBER	QTY				
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.			IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.								
WARNING SIGNS								GUIDE SIGNS								DESCRIPTION					
TURN (SYMBOL LEFT ARROW)								E05-1 36X48 12.00								GORE EXIT		6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
TURN (SYMBOL RIGHT ARROW)								E05-2 48X36 12.00								EXIT OPEN		6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
CURVE (SYMBOL LEFT ARROW)								E05-2a 48X36 12.00								EXIT CLOSED		6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
CURVE (SYMBOL RIGHT ARROW)								GO20-1 60X24 10.00 4 40 1								ROAD WORK NEXT XX MILES		6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
REVERSE TURN (SYMBOL LEFT ARROW)								GO20-2 48X24 8.00 4 32 26								END ROAD WORK		6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
REVERSE TURN (SYMBOL RIGHT ARROW)								GO20-4 36X18 4.50 1 4.5 53								PILOT CAR FOLLOW ME		6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
REVERSE CURVE (SYMBOL LEFT ARROW)								GO20-4a 42X30 8.75 2 17.5 58								PILOT CAR IN USE WAIT & FOLLOW		6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
REVERSE CURVE (SYMBOL RIGHT ARROW)								GO20-4a 18X12 1.50 2 3 58								PILOT CAR IN USE WAIT & FOLLOW		6122020		REPLACEMENT SAND BARREL	
DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)								GO20-5aP 36X24 6.00								WORK ZONE (PLAQUE)		6122030		IMPACT ATTENUATOR (RELOCATION)	
DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)								MO4-8a 24X18 3.00								END DETOUR		6123000A 2		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	
TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)								MO4-9L 48X36 12.00								DETOUR (LEFT ARROW)		6161008		ADVANCED WARNING RAIL SYSTEM	
TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)								MO4-9R 48X36 12.00								DETOUR (RIGHT ARROW)		6161012		BUOYS (BOATS KEEP OUT)	
HORIZONTAL ARROW (SYMBOL)								MO4-9P 48X12 4.00								STREET NAME (PLAQUE)		6161013		BUOYS (NO WAKE)	
HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)								MO4-10L 48X18 6.00								DETOUR (ARROW LEFT)		6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)								MO4-10R 48X18 6.00								DETOUR (ARROW RIGHT)		6161025 120		CHANNELIZER (TRIM LINE)	
DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)								REGULATORY SIGNS										6161030		TYPE III MOVEABLE BARRICADE	
CHEVRON (SYMBOL)								R1-1 48X48 13.25								STOP		6161033		DIRECTION INDICATOR BARRICADE	
CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)								R1-2 48TRI 6.93								YIELD		6161040 2		FLASHING ARROW PANEL	
STOP AHEAD (SYMBOL)								R1-2a 36X36 9.00								TO ONCOMING TRAFFIC (PLAQUE)		6161047		TYPE III OBJECT MARKER	
YIELD AHEAD (SYMBOL)								R1-3P 30X12 2.50								ALL WAY (PLAQUE)		6161055		SEQUENTIAL FLASHING WARNING LIGHT	
SIGNAL AHEAD (SYMBOL)								R2-1 36X48 12.00								SPEED LIMIT XX		6161070		TUBULAR MARKER	
BE PREPARED TO STOP								R3-1 48X48 16.00								NO RIGHT TURN (SYMBOL)		6161095		RADAR SPEED ADVISORY SYSTEM	
SPEED LIMIT AHEAD								R3-2 48X48 16.00								NO LEFT TURN (SYMBOL)					
MERGE (SYMBOL FROM LEFT)								R3-3 36X36 9.00								NO TURNS		6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
MERGE (SYMBOL FROM RIGHT)								R3-4 48X48 16.00								NO U-TURN (SYMBOL)					
MERGE (ARROW SYMBOL)								R3-7L 30X30 6.25								LEFT LANE MUST TURN LEFT		6161098A 4		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED	
MERGE (ARROW SYMBOL)								R3-7R 30X30 6.25								RIGHT LANE MUST TURN RIGHT					
ROAD/BRIDGE/RAMP NARROWS								R4-1 36X48 12.00								DO NOT PASS		6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED	
ONE LANE BRIDGE								R4-2 36X48 12.00								PASS WITH CARE		6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
NARROW LANES								R4-8a 36X48 12.00								KEEP LEFT (HORIZONTAL ARROW)		6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
DIVIDED HIGHWAY (SYMBOL)								R4-7a 36X48 12.00								KEEP RIGHT (HORIZONTAL ARROW)					
DIVIDED HIGHWAY END (SYMBOL)								R5-1 30X30 6.25								DO NOT ENTER		6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED	
TWO WAY TRAFFIC (SYMBOL)								R5-1a 36X24 6.00								WRONG WAY					
NEXT XX MILES (PLAQUE)								R6-1L 54X18 6.75								ONE WAY ARROW (LEFT)		6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED	
BUMP								R6-1R 54X18 6.75								ONE WAY ARROW (RIGHT)		6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
DIP								R6-2L 24X30 5.00								ONE WAY (LEFT)		6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER	
PAVEMENT ENDS								R6-2R 24X30 5.00								ONE WAY (RIGHT)					
SOFT SHOULDER								R9-9 24X12 2.00								SIDEWALK CLOSED		6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED	
SLIPPERY WHEN WET (SYMBOL)								R9-11L 24X18 3.00								SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE		6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED	
TRUCK CROSSING (WITH FLAGS)																SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE		6208064A		TEMPORARY RAISED PAVEMENT MARKER	
TRUCK ENTRANCE								R9-11R 24X18 3.00								(ARROW RIGHT) CROSS HERE		9029400		TEMPORARY TRAFFIC SIGNALS	
LOOSE GRAVEL								R10-6 24X36 6.00								STOP HERE ON RED (45° ARROW)		9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
FRESH OIL/LOOSE GRAVEL								R11-2 48X30 10.00								ROAD CLOSED					
LOW SHOULDER																ROAD CLOSED XX MILES AHEAD					
UNEVEN LANES								R11-3a 60X30 12.50								LOCAL TRAFFIC ONLY					
NO CENTER LINE								R11-4 60X30 12.50								ROAD CLOSED TO THRU TRAFFIC					
GROOVED PAVEMENT								CONST-3A 60X48 20.00								FINE SIGN					
MOTORCYCLE (PLAQUE)								CONST-3X 56X12 4.67								SPEEDING/PASSING (PLATE)					
SHOULDER DROP-OFF (SYMBOL)								MISCELLANEOUS SIGNS													
SHOULDER DROP-OFF (PLAQUE)								CONST-5 48X36 12.00								POINT OF PRESENCE					
RAILROAD CROSSING								CONST-5 96X48 32.00								POINT OF PRESENCE					
DOUBLE DOWN ARROW (SYMBOL)								CONST-7 48X24 8.00 6 48 56								RATE OUR WORK ZONE					
LOW CLEARANCE (SYMBOL)								CONST-7 72X36 18.00								RATE OUR WORK ZONE					
LOW CLEARANCE (PLAQUE)								CONST-8 48X36 12.00 6 72 59								WORK ZONE NO PHONE ZONE					
OVERHEAD LOW CLEARANCE (FEET AND INCHES)																					
LOW CLEARANCE XX FT XX IN XX MILES AHEAD																					
WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD																					
ADVISORY SPEED (PLAQUE)																					
XXX FEET (PLAQUE)																					
X MILE (PLAQUE)																					
ROAD/BRIDGE/RAMP WORK AHEAD																					
DETOUR AHEAD																					
ROAD CLOSED AHEAD																					
ONE LANE ROAD AHEAD								616-10.05 TOTAL													
RIGHT/CENTER/LEFT LANE CLOSED AHEAD								CONSTRUCTION SIGNS 1010													
2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD								616-10.10 TOTAL													
RIGHT/CENTER/LEFT LANE CLOSED								RELOCATED SIGNS 0													
FLAGGER (SYMBOL, WITH FLAGS)																					
FRESH OIL																					
SHOULDER WORK AHEAD																					
BLASTING ZONE AHEAD																					
TURN OFF 2-WAY RADIO AND PHONE																					
END BLASTING ZONE																					
WET PAINT (ARROW PIVOTS)																					

SUMMARY OF QUANTITIES  
SHEET 3 OF 3

SUMMARY OF QUANTITIES  
SHEET 3 OF 3




MO-PE-2006019679	
DATE PREPARED	
6/27/2023	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	3

COUNTY	CAMDEN
JOB NO.	JCD0138
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION**

 **MoDOT**

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

--	--



TYPICAL DETAIL BEGIN/END ROUTE  
DEPTH TRANSITIONS

TYPICAL DETAIL AT EXIST.  
GRAVEL PRIVATE ENTRANCES  
OR COUNTY ROADS

\* TAPER AT 1:1 FOR FIELD ENTRANCES

TYPICAL DETAIL BRIDGE APPROACH SECTION  
DEPTH TRANSITIONS

TYPICAL DETAIL AT EXIST.  
PAVED PRIVATE ENTRANCES  
OR COUNTY ROADS





RTE NN L.M. 3.295 END PROJECT



RTE NN L.M. 0.017 START PROJECT

NOT TO SCALE



RTE DD L.M. 0.018 START PROJECT



RTE DD L.M. 0.510 END PROJECT

STATE OF MISSOURI

RYAN JOSEPH LIBBERT

NUMBER

PE-2006019679

PROFESSIONAL ENGINEER

07/28/2023 7:04:46 AM

RYAN JOSEPH LIBBERT - CIVIL

MO-PE-2006019679

DATE PREPARED

6/27/2023

ROUTE

VAR.

DISTRICT

CD

STATE

MO

SHEET NO.

5

COUNTY

CAMDEN

JOB NO.

JCD0138

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)

SPECIAL SHEET

PROJECT BEGIN AND END

DETAILS

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





RTE Z L.M. 0.010 START PROJECT

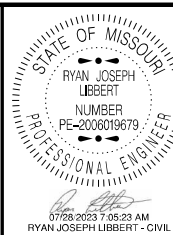


RTE Z L.M. 0.812 BR B0344 EXCEPTION



RTE Z L.M. 5.300 END PROJECT

NOT TO SCALE



DATE PREPARED 6/27/2023	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 6
COUNTY CAMDEN	
JOB NO. JCD0138	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

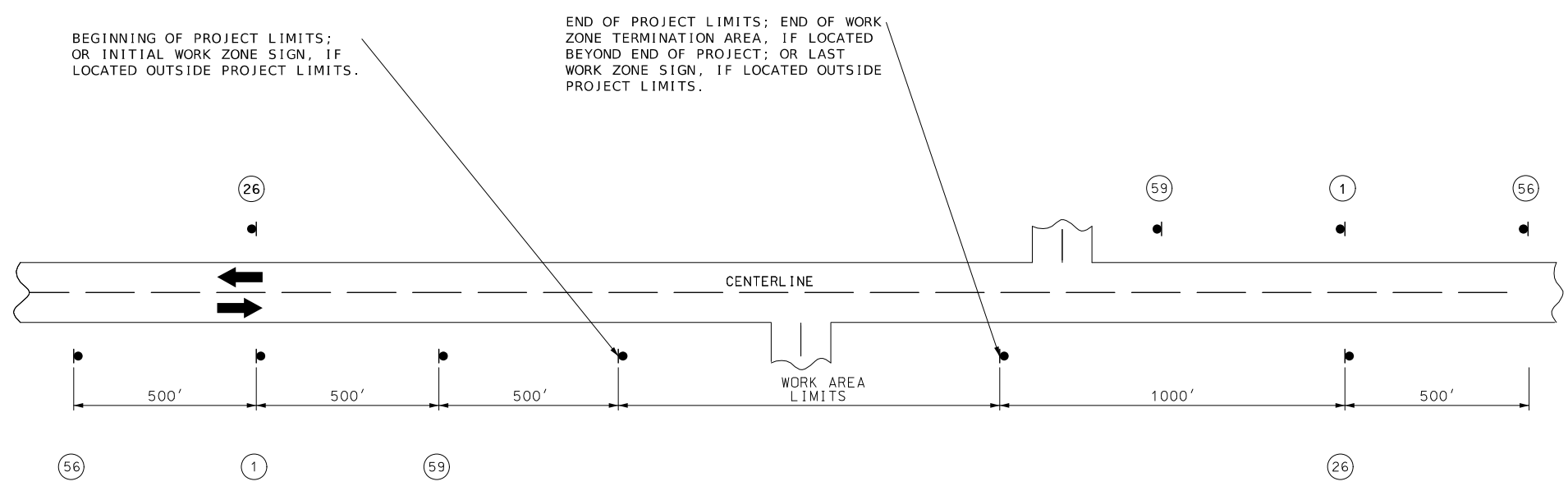


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET  
PROJECT BEGIN AND END  
DETAILS

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



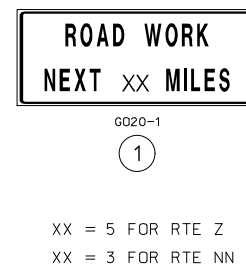
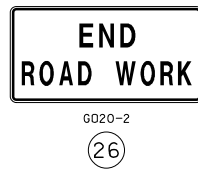
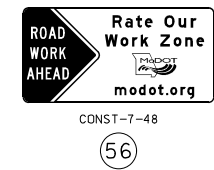


NOTES:

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

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



STATE OF MISSOURI  
RYAN JOSEPH LIBBERT  
NUMBER  
PE-2006019679  
PROFESSIONAL ENGINEER  
07/28/2023 7:05:59 AM  
RYAN JOSEPH LIBBERT - CIVIL  
MO-PE-2006019679

DATE PREPARED  
6/27/2023

ROUTE  
VAR.

STATE  
MO

DISTRICT  
CD

SHEET NO.  
7

COUNTY  
CAMDEN

JOB NO.  
JCD0138

CONTRACT ID.

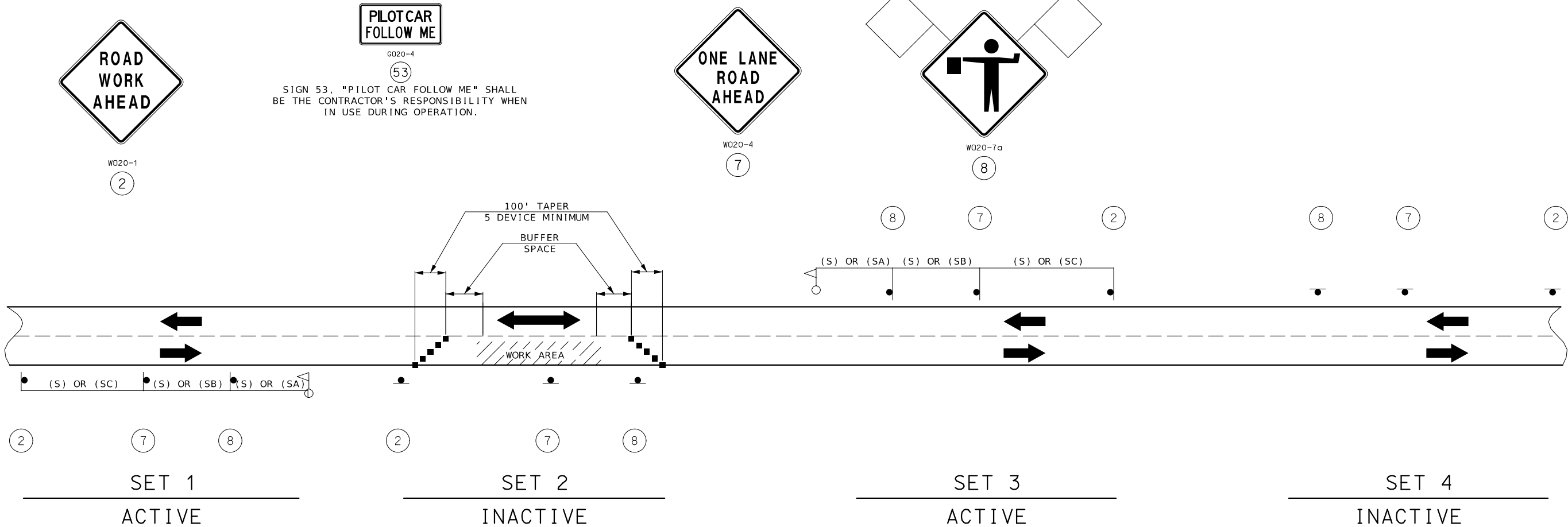
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

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

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

■ - CHANNELIZERS

🚧 - FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

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

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

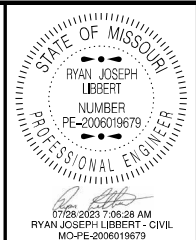
NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOT TO SCALE

TRAFFIC CONTROL SHEET  
SHEET 2 OF 5



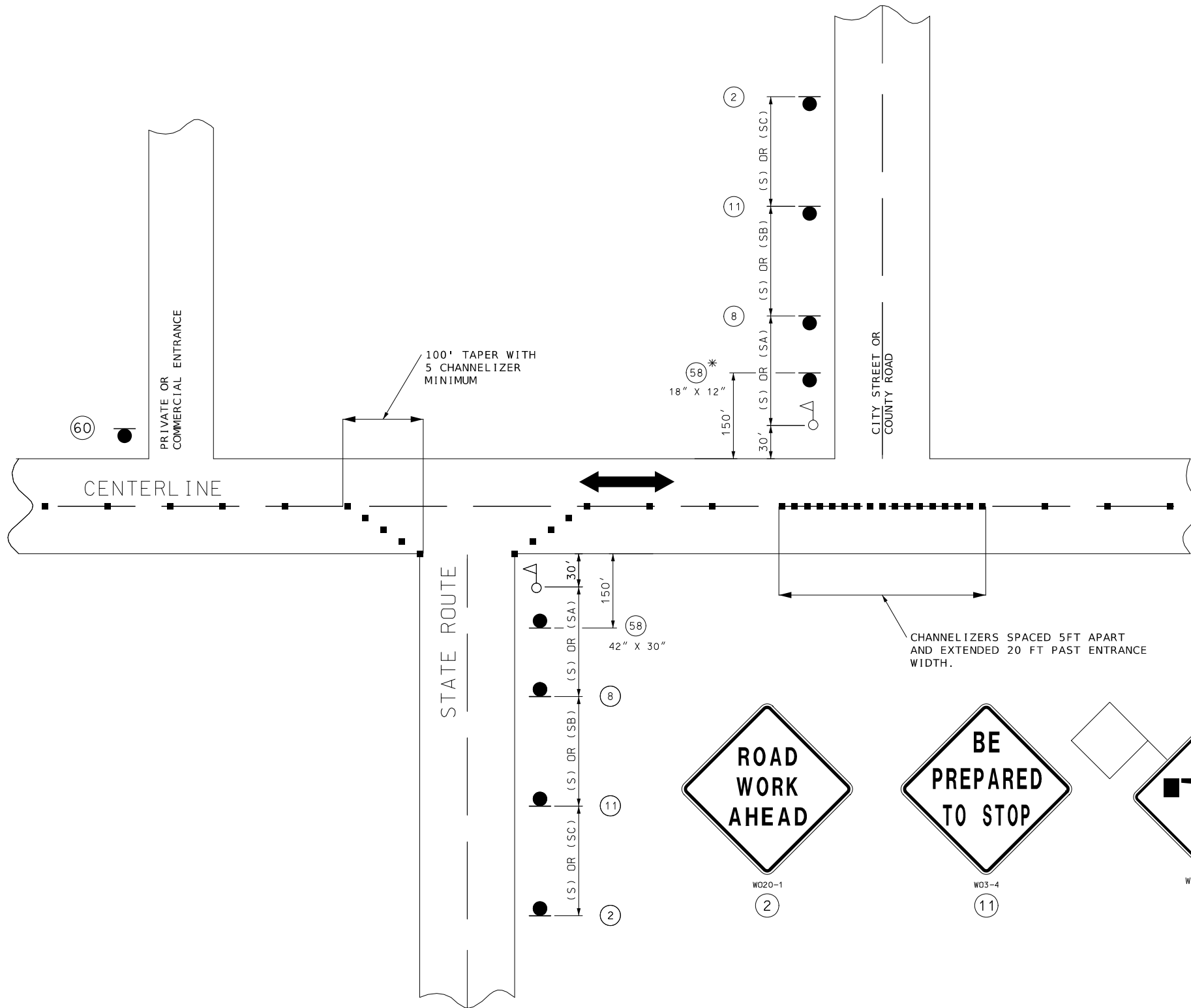
DATE PREPARED 6/27/2023	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY CAMDEN	
JOB NO. JCD0138	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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.



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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

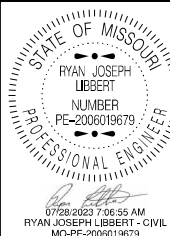
NOTES:  
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.  
  
ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

- - CHANNELIZERS ( AS SPECIFIED)
- - FLAGGER

SIDE ROADS ENTERING WORKZONES

NOT TO SCALE

TRAFFIC CONTROL SHEET  
SHEET 3 OF 5



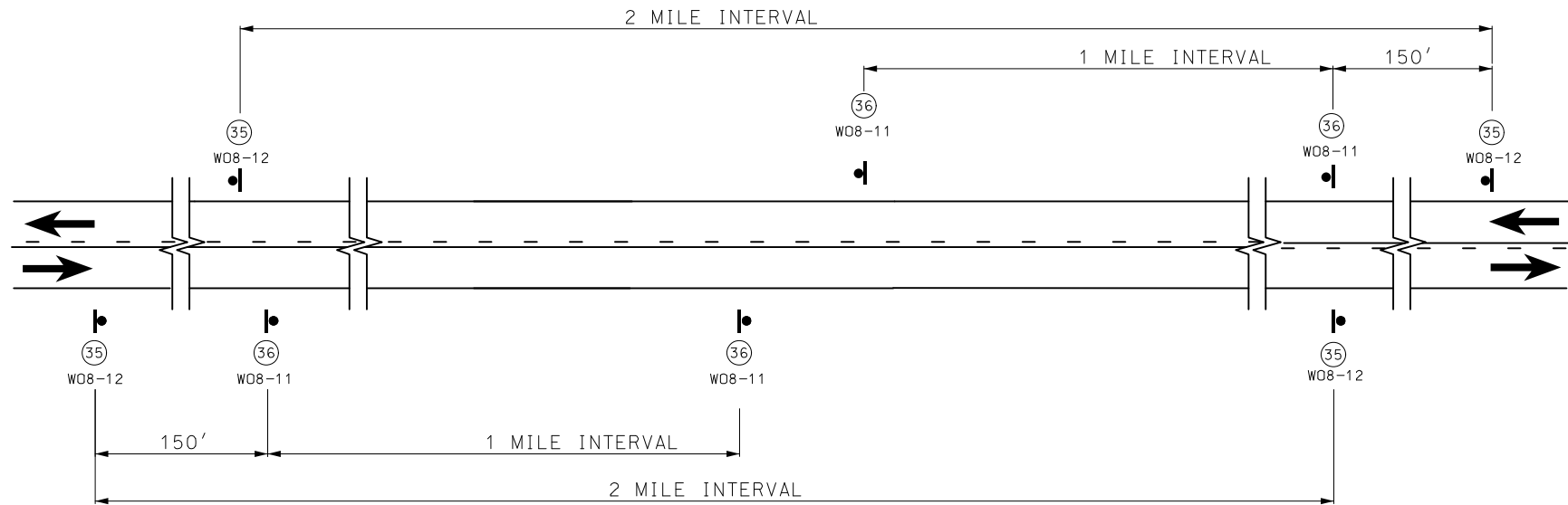
DATE PREPARED 6/27/2023	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 9
COUNTY CAMDEN	
JOB NO. JCD0138	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

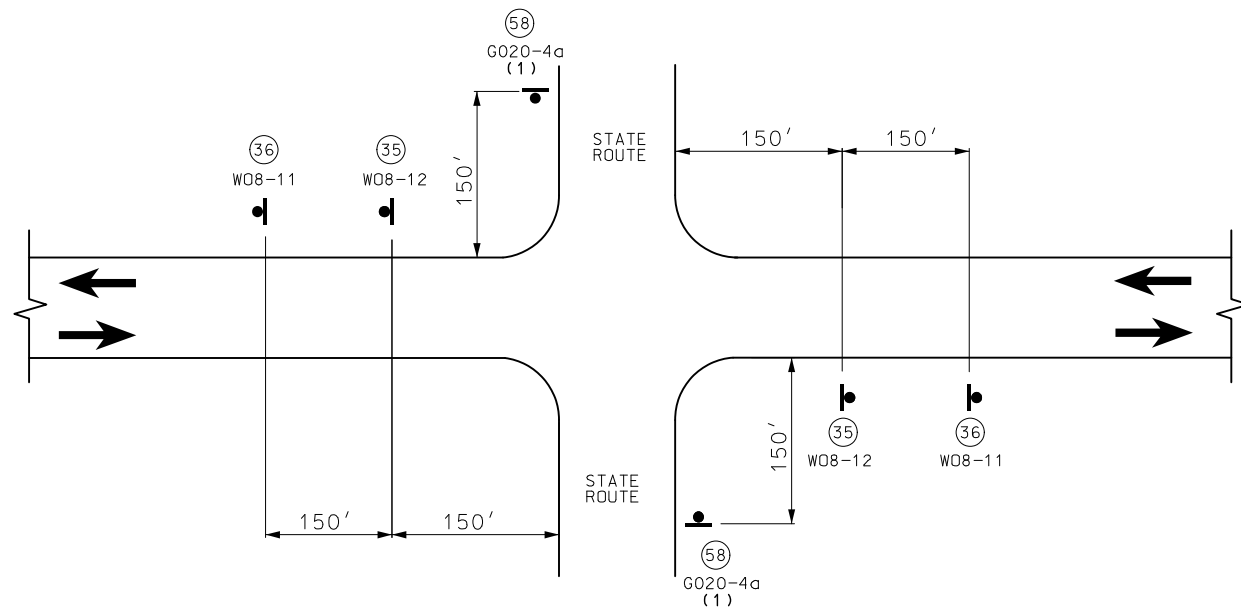
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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.



SIGN SPACING ON MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS

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



G020-4a  
(58)



W08-12  
(35)



W08-11  
(36)

NOTES:

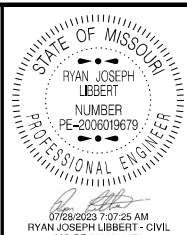
SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS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

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

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

NOT TO SCALE

TRAFFIC CONTROL SHEET  
SHEET 4 OF 5



DATE PREPARED  
6/27/2023  
ROUTE  
VAR.  
DISTRICT  
CD  
STATE  
MO  
SHEET NO.  
10  
COUNTY  
CAMDEN  
JOB NO.  
JCD0138  
CONTRACT ID.

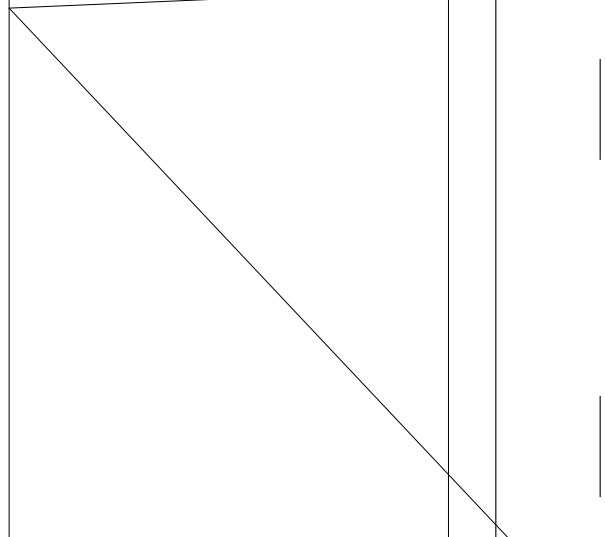
PROJECT NO.  
BRIDGE NO.

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.



150' MIN.

150! MIN.

- MIDDLE WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL, AND TRUCK OR TRAILER MOUNTED ATTENUATOR. (1)

- REAR ADVANCE WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL, AND TRUCK OR TRAILER MOUNTED ATTENUATOR. (3)

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

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

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

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

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

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

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

NOT TO SCALE

TRAFFIC CONTROL SHEET  
SHEET 5 OF 5

DATE PREPARED <b>6/27/2023</b>					
ROUTE		STATE			
<b>VAR.</b>		<b>MO</b>			
DISTRICT		SHEET NO.			
<b>CD</b>		<b>11</b>			
COUNTY					
<b>CAMDEN</b>					
JOB NO.					
<b>JCD0138</b>					
CONTRACT I.D.					
PROJECT NO.					
BRIDGE NO.					
DESCRIPTION					
DATE					
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	<div style="text-align: center;"> <p>105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p> </div>				

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