MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PRELIMINARY PLANS FOR PROPOSED STATE HIGHWAY

MILLER COUNTY

DESIGN DESIGNATION

RTE 54 S/O CRD OSAGE RIVER BRIDGE	
A.A.D.T - 2025 =	22,750
A.A.D.T - 2035 =	22,900
D.H.V. =	9.01%
T =	15.40%
V =	70 M.P.H
D =	47.7%/ 52.3%
FUNCTIONAL CLASS.	FREEWAY
RTE 54 N/O CRD OSAGE RIVER BRIDGE	
A.A.D.T - 2025 =	25,016
A.A.D.T - 2035 =	29,023
D.H.V. =	8.28%
T =	13.45%
V =	70 M.P.H
D =	49.5%/ 50.5%
FUNCTIONAL CLASS.	FREEWAY
RTE 54 S/O 52	
A.A.D.T - 2025 =	21,531
A.A.D.T - 2035 =	23,230
D.H.V. =	8.77%
T =	9.87%
V =	70 M.P.H
D =	49.5%/ 50.5%
FUNCTIONAL CLASS.	FREEWAY
RTE 54 N/O 52	
A.A.D.T - 2025 =	17,152
A.A.D.T - 2035 =	18,515
D.H.V. =	8.85%
T =	16.96%
V =	70 M.P.H
D =	48.0%/ 52.0%
FUNCTIONAL CLASS.	FREEWAY

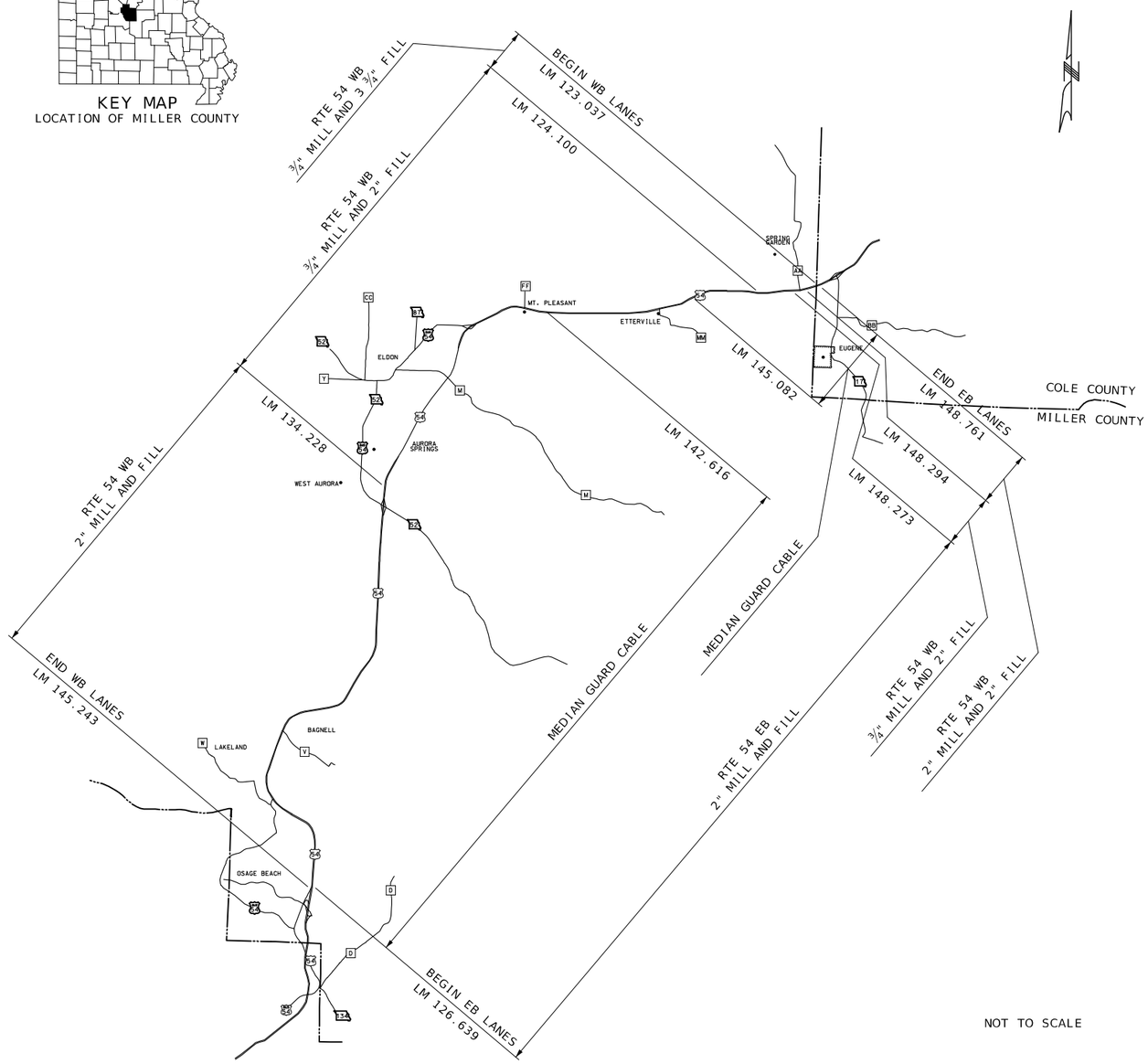
NO NEW RIGHT OF WAY

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

KEY MAP
LOCATION OF MILLER COUNTY



NOT TO SCALE

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

INDEX OF SHEETS

LENGTH OF PROJECT

RTE 54 WESTBOUND			
BEGINNING	L.M.	123.037	
END	L.M.	145.243	
APPARENT LENGTH		22.206	MILES
EQUATIONS AND EXCEPTIONS			
BRIDGE A2750			
BEGIN	L.M.	130.923	
END	L.M.	130.961	
BRIDGE A6291			
BEGIN	L.M.	131.603	
END	L.M.	131.672	
BRIDGE A5793			
BEGIN	L.M.	132.068	
END	L.M.	132.122	
BRIDGE A2752			
BEGIN	L.M.	134.228	
END	L.M.	134.254	
BRIDGE A2679			
BEGIN	L.M.	139.448	
END	L.M.	139.486	
BRIDGE A16752			
BEGIN	L.M.	141.481	
END	L.M.	141.522	
BRIDGE A8727			
BEGIN	L.M.	142.953	
END	L.M.	143.001	
BRIDGE A1479			
BEGIN	L.M.	144.844	
END	L.M.	145.009	
RTE 54 EASTBOUND			
BEGINNING	L.M.	126.641	
END	L.M.	148.761	
APPARENT LENGTH		22.120	MILES
EQUATIONS AND EXCEPTIONS			
BRIDGE A6358			
BEGIN	L.M.	126.832	
END	L.M.	126.994	
BRIDGE A8807			
BEGIN	L.M.	128.851	
END	L.M.	128.898	
BRIDGE A1675			
BEGIN	L.M.	130.306	
END	L.M.	130.347	
BRIDGE A2678			
BEGIN	L.M.	132.330	
END	L.M.	132.368	
BRIDGE A2752			
BEGIN	L.M.	137.573	
END	L.M.	137.598	
BRIDGE A5792			
BEGIN	L.M.	139.702	
END	L.M.	139.754	
BRIDGE A2751			
BEGIN	L.M.	140.191	
END	L.M.	140.226	
BRIDGE A2749			
BEGIN	L.M.	140.874	
END	L.M.	140.919	
TOTAL CORRECTIONS		0.924	MILES
NET LENGTH OF PROJECT		43.402	MILES
STATE LENGTH		43.402	MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 22.7 ACRES

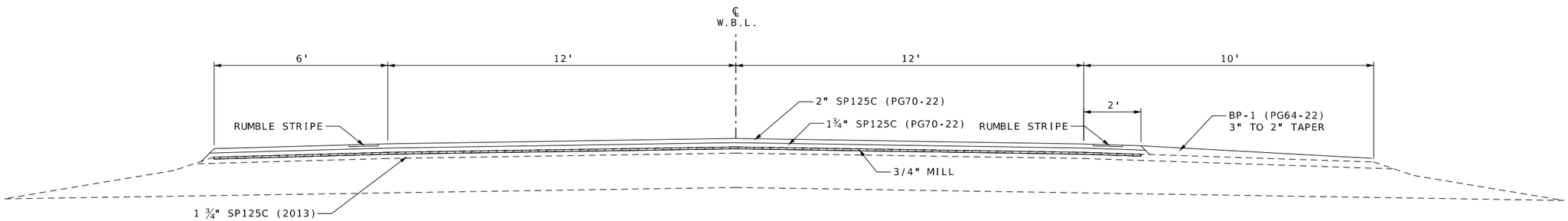
STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:33:47 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 1
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

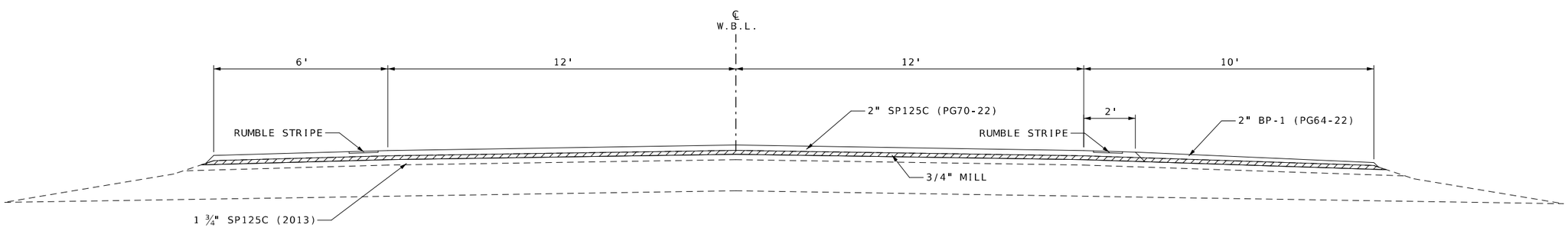
DESCRIPTION

DATE

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



TYPICAL SECTION OF RTE 54 W.B.L.
L.M. 123.094 - L.M. 124.100



TYPICAL SECTION OF RTE 54 W.B.L.
L.M. 124.100 - L.M. 131.433
L.M. 134.066 - L.M. 134.254

SP125C (PG 70-22)	1.927 TON/YD³
BP-1 (PG 64-22)	1.948 TON/YD³
TACK COAT-COLDMILLED SURFACE	0.10 GAL/YD²

TYPICAL SECTION SHEET
WESTBOUND LANES
SHEET 1 OF 7

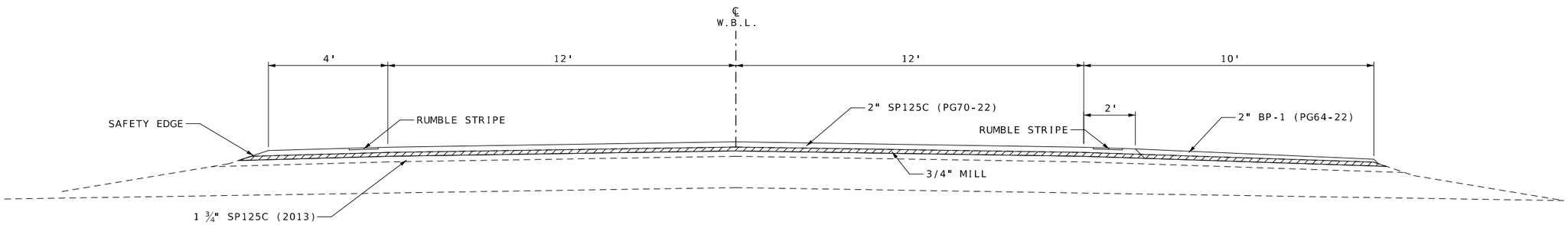
STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:34:24 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

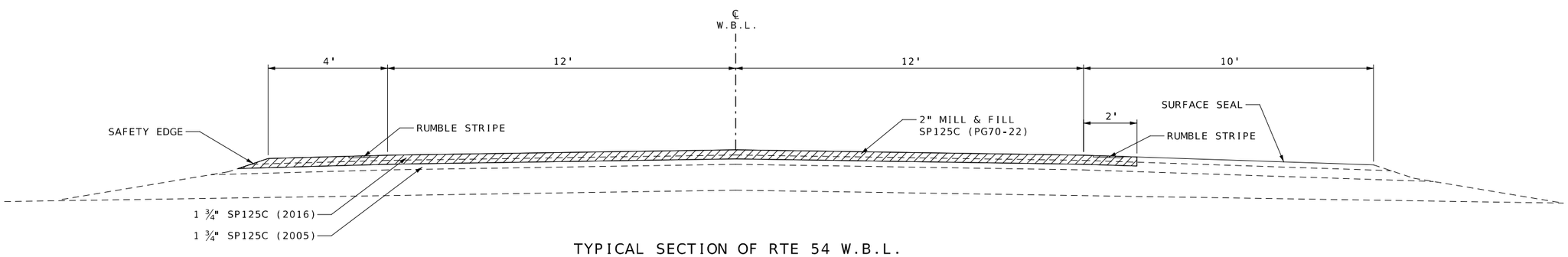
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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



TYPICAL SECTION OF RTE 54 W.B.L.
L.M. 131.433 - L.M. 134.066



TYPICAL SECTION OF RTE 54 W.B.L.
L.M. 134.254 - L.M. 145.243

SP125C (PG 70-22)	1.927 TON/YD³
BP-1 (PG 64-22)	1.948 TON/YD³
TACK COAT-COLDMILLED SURFACE	0.10 GAL/YD²

TYPICAL SECTION SHEET
WESTBOUND LANES
SHEET 2 OF 7

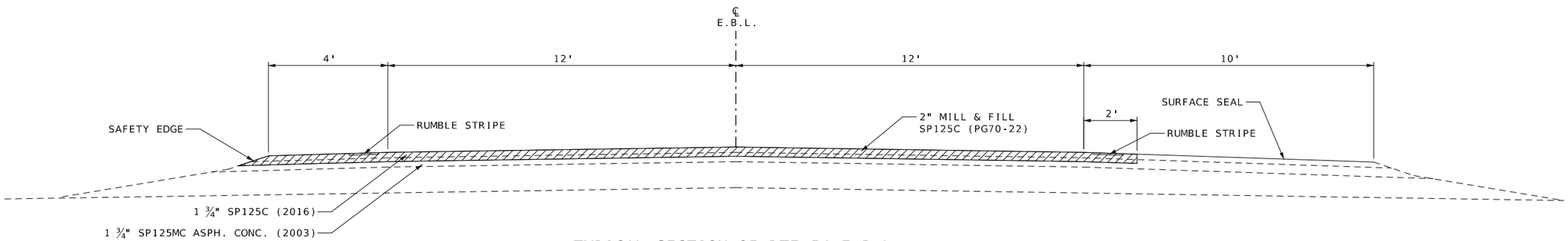
STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

09/05/2024 12:34:57 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

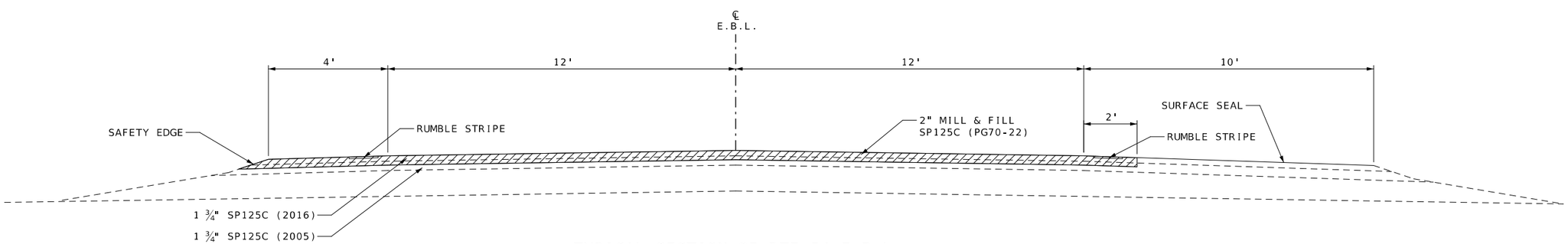
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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



TYPICAL SECTION OF RTE 54 E.B.L.
L.M. 126.641- L.M. 128.586



TYPICAL SECTION OF RTE 54 E.B.L.
L.M. 128.586- L.M. 148.761

SP125C (PG 70-22)	1.927 TON/YD³
BP-1 (PG 64-22)	1.948 TON/YD³
TACK COAT-COLDMILLED SURFACE	0.10 GAL/YD²

TYPICAL SECTION SHEET
EASTBOUND LANES
SHEET 3 OF 7

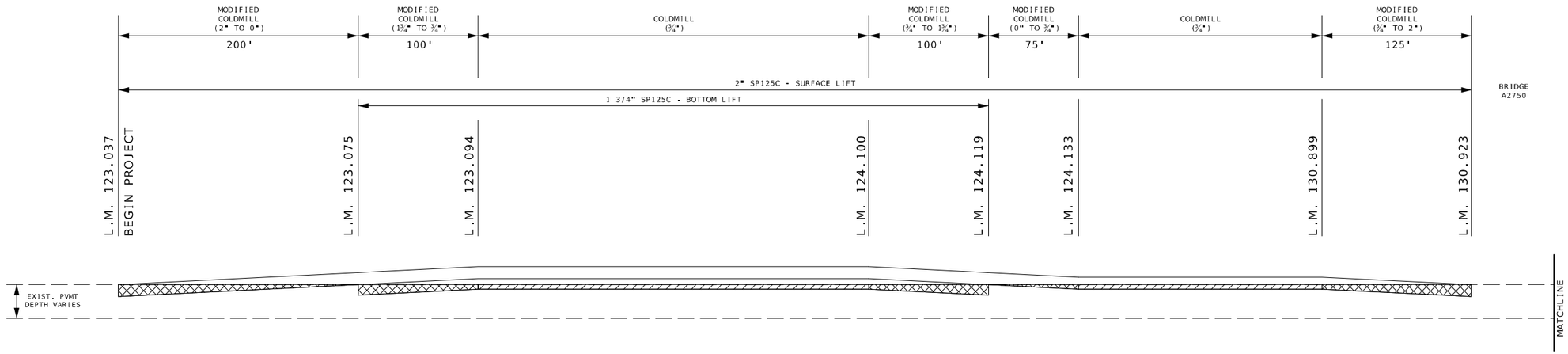
STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:35:15 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

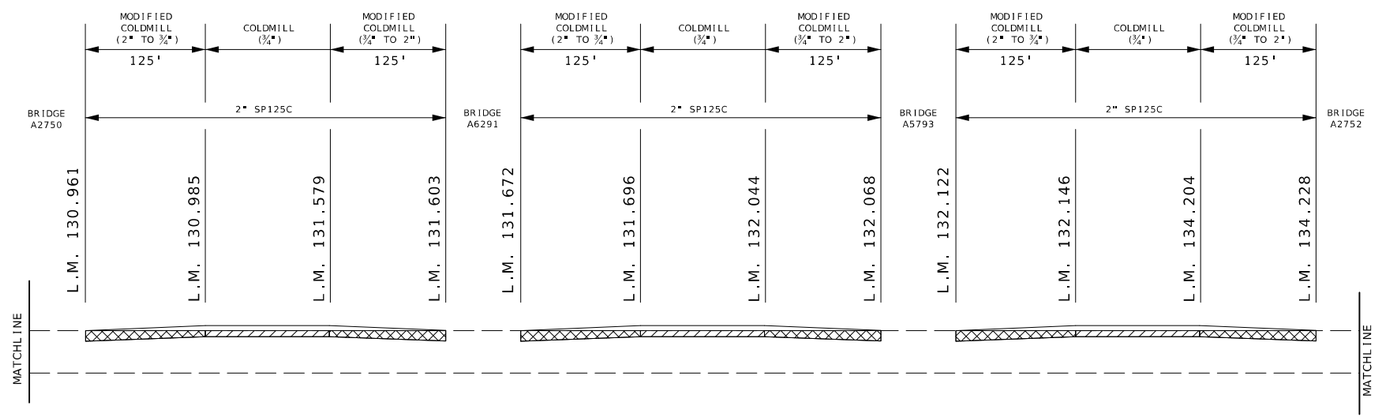
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

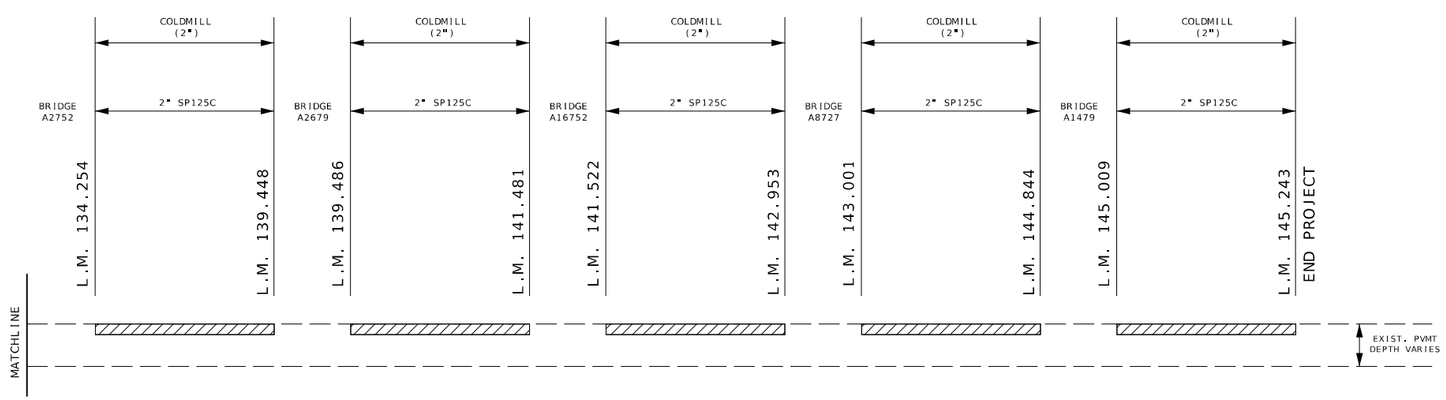
US54 WBL





COLDMILLING 3" OR LESS

MODIFIED COLDMILL



TYPICAL SECTION SHEET
TRANSITION DETAILS
WESTBOUND
SHEET 4 OF 7

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:36:30 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

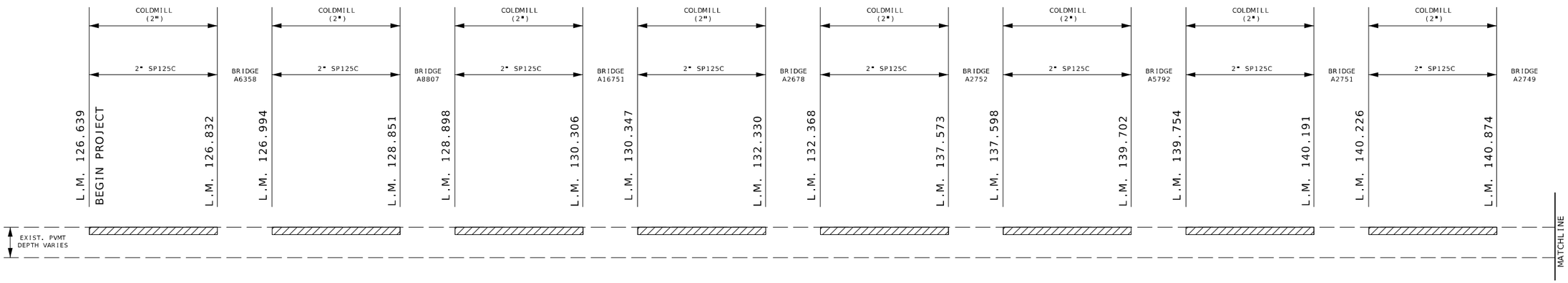
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

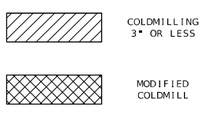
DATE	DESCRIPTION

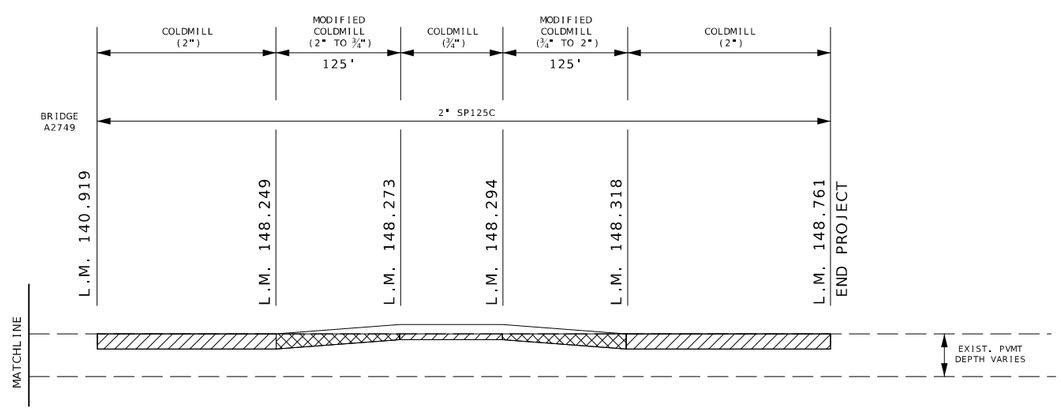
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

US54 EBL







TYPICAL SECTION SHEET
TRANSITION DETAILS
EASTBOUND
SHEET 5 OF 7

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

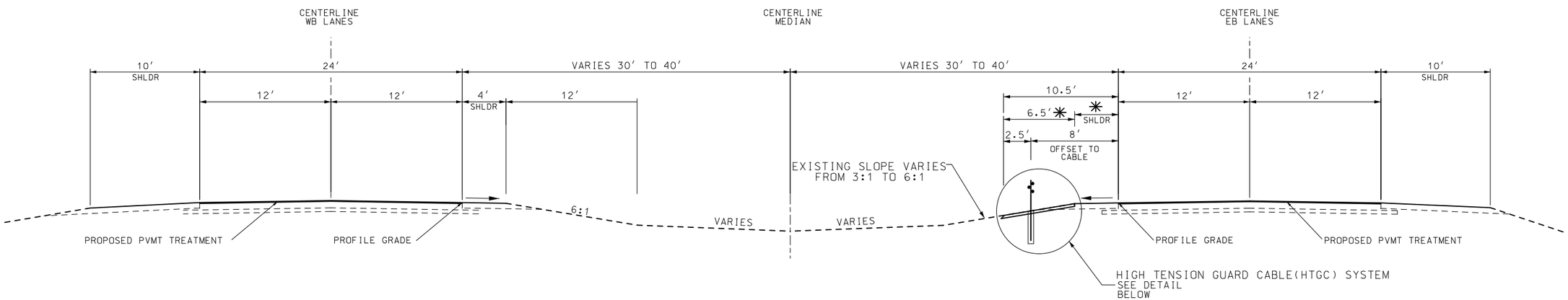
08/05/2024 12:36:50 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

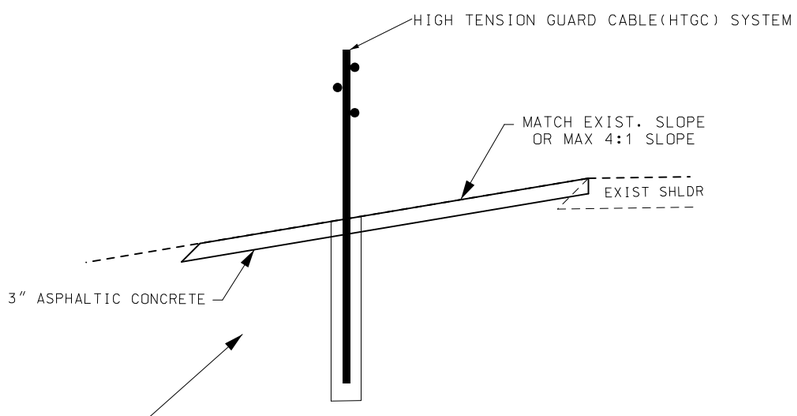
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



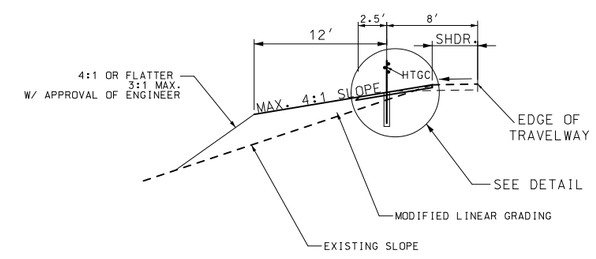
US 54 TYPICAL SECTION ON TANGENT

✳ SHOULDER WIDTH VARIES FROM 1′ TO 6′ THROUGHOUT THE PROJECT LIMITS. WIDTH OF THE VEGETATIVE BARRIER SHALL BE ADJUSTED ACCORDINGLY.

NOTE:
HIGH TENSION GUARD CABLE INSTALLATION SHOWN IS APPROXIMATE. SEE MANUFACTURER'S PLANS FOR DETAILED DESIGN OF POST, CABLE, CONCRETE FOOTING, ETC.



IN AREAS WHERE FILL IS REQUIRED:



HIGH TENSION GUARD CABLE(HTGC) SYSTEM

ORDER OF WORK

1. REMOVE 3″ OF EXIST. MATERIAL } MODIFIED LINEAR GRADING
2. COMPACT WITH 3 PASSES OF 10 TON ROLLER
3. APPLY SOIL STERILANT (AT NO DIRECT PAY)
4. VEGETATIVE BARRIER - LAY 3″ ASPHALTIC CONCRETE (COMMERCIAL MIX ACCEPTED)
5. AUGER POST FOOTING HOLES
6. INSTALL HIGH TENSION GUARD CABLE SYSTEM
7. REPAIR DISTURBED MEDIAN SLOPE AREAS (SHAPING SLOPES CLASS 2), SEED AND MULCH

NOT TO SCALE

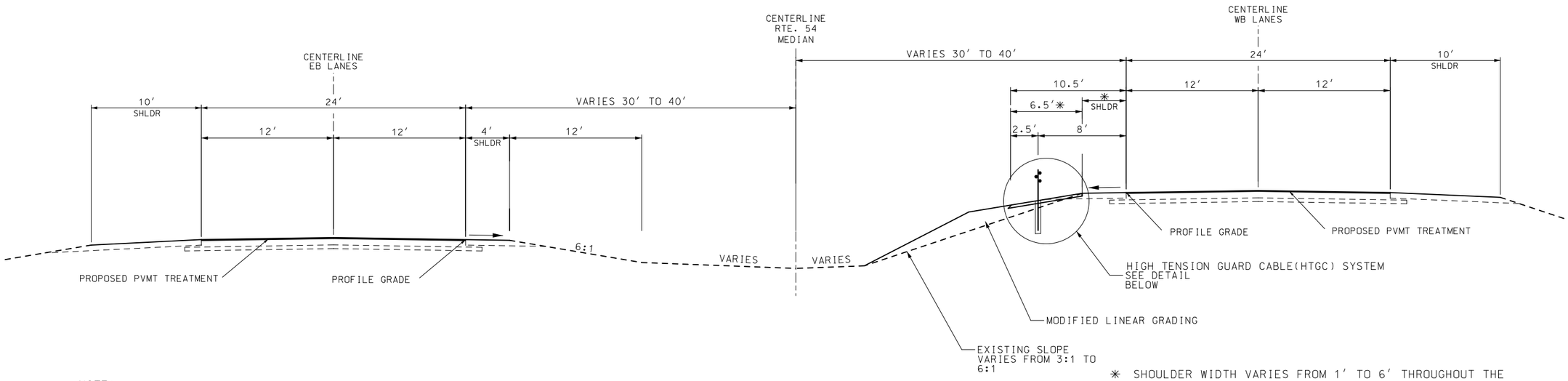
TYPICAL SECTION SHEET
RTE 54 GUARD CABLE - EBL
SHEET 6 OF 7

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:38:34 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

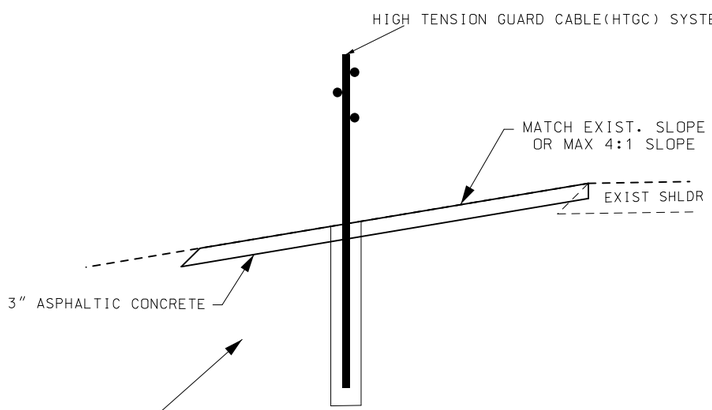
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



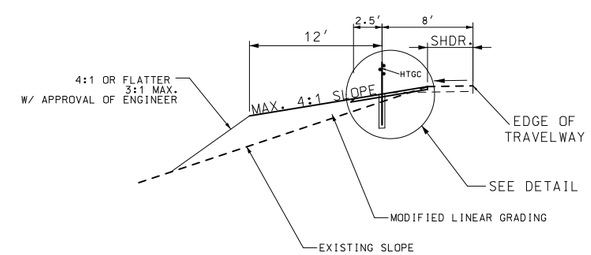
NOTE:
HIGH TENSION GUARD CABLE INSTALLATION SHOWN IS APPROXIMATE. SEE MANUFACTURER'S PLANS FOR DETAILED DESIGN OF POST, CABLE, CONCRETE FOOTING, ETC.

✳ SHOULDER WIDTH VARIES FROM 1′ TO 6′ THROUGHOUT THE PROJECT LIMITS. WIDTH OF THE VEGETATIVE BARRIER SHALL BE ADJUSTED ACCORDINGLY.

US 54 TYPICAL SECTION ON TANGENT



IN AREAS WHERE FILL IS REQUIRED:



HIGH TENSION GUARD CABLE(HTGC) SYSTEM

ORDER OF WORK

1. REMOVE 3″ OF EXIST. MATERIAL
2. COMPACT WITH 3 PASSES OF 10 TON ROLLER

} MODIFIED LINEAR GRADING

3. APPLY SOIL STERILANT (AT NO DIRECT PAY)
4. VEGETATIVE BARRIER - LAY 3″ ASPHALTIC CONCRETE (COMMERCIAL MIX ACCEPTED)
5. AUGER POST FOOTING HOLES
6. INSTALL HIGH TENSION GUARD CABLE SYSTEM
7. REPAIR DISTURBED MEDIAN SLOPE AREAS (SHAPING SLOPES CLASS 2), SEED AND MULCH

NOT TO SCALE

TYPICAL SECTION SHEET
RTE 54 GUARD CABLE - WBL
SHEET 7 OF 7

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:38:53 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY	MILLER
JOB NO.	J5P3500
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)

REMOVAL OF IMPROVEMENTS - GUARDRAIL

LOG MILE FROM	LOG MILE TO	LOCATION	ITEM	QTY FT	REMARKS
WBL					
131.552	131.617	RTE 54 WB LT.	GUARDRAIL	387.5	BEFORE BR A6291
131.573	131.617	RTE 54 WB RT.	GUARDRAIL	300	BEFORE BR A6291
132.000	132.068	RTE 54 WB LT.	GUARDRAIL	387.5	BEFORE BR A5793
132.015	132.068	RTE 54 WB RT.	GUARDRAIL	312.5	BEFORE BR A5793
135.234	135.282	RTE 54 WB LT.	GUARDRAIL	525	MEDIAN AT BR A2810
141.419	141.481	RTE 54 WB LT.	GUARDRAIL	350	BEFORE BR A16752
EBL					
130.358	130.440	RTE 54 WB RT.	GUARDRAIL	450	AFTER BR A16751
			TOTAL	1 LUMP SUM	

MOBILIZATION

1 LUMP SUM

CONTRACTOR SURVEYING & STAKING

TOTAL = 1 LUMP SUM

REMOVAL OF IMPROVEMENTS - SIGNS

L.M. OR STA.	SIGN NO.	LOCATION	SIGN TYPE	NO. OF SIGNS	NO. OF POSTS	REMARKS
WBL						
126.583	5	WB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
126.623	6	WB LT.	DO NOT ENTER	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
129.520	9	WB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
137.851	14	WB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
137.911	15	WB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
137.930	16	WB LT.	ONE WAY ARROW	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
138.011	17	WB LT.	EAST, WEST, 54, 45 LT. ARROW (ADV), THRU ARROW	6	1	REMOVE/SALVAGE/REPLACE - SEE JSP
138.242	18	WB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
138.715	19	WB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
138.775	20	WB LT.	DO NOT ENTER	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
139.095	21	WB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
139.136	22	WB LT.	DO NOT ENTER / NO LEFT TURN	2	2	REMOVE/SALVAGE/REPLACE - SEE JSP
141.557	35	WB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
EBL						
148.257	1	EB LT.	DO NOT ENTER	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
148.217	2	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
146.697	3	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
146.630	4	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
145.746	7	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
145.786	8	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
135.715	10	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
135.756	11	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
134.897	12	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
134.958	13	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
131.918	23	EB LT.	EMERGENCY VEHICLE	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
131.937	24	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
131.977	25	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
132.018	26	EB LT.	ONE WAY ARROW	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
131.718	27	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
131.757	28	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
131.337	30	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
131.356	31	EB LT.	DO NOT ENTER / NO LEFT TURN	2	2	REMOVE/SALVAGE/REPLACE - SEE JSP
131.156	32	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
131.197	33	EB LT.	DO NOT ENTER	1	1	REMOVE SIGN AND POST
131.237	34	EB LT.	ONE WAY ARROW	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
127.822	36	EB LT.	WRONG WAY	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
127.862	37	EB LT.	DO NOT ENTER	1	2	REMOVE/SALVAGE/REPLACE - SEE JSP
127.902	38	EB LT.	ONE WAY ARROW / NO LEFT TURN	2	1	REMOVE SIGNS AND POST
RAMP AT ROUTE 52						
1+88	40	RAMP RT.	NO TRUCK PARKING	1	1	REMOVE/SALVAGE/REPLACE - SEE JSP
2+47	42	RAMP RT.	BUS/54/52/LT. ARROW/RT. & LT. ARROW	5	1	REMOVE/SALVAGE/REPLACE - SEE JSP
3+37	43	RAMP RT.	YIELD	1	1	REMOVE SIGN AND POST
			TOTAL	1 LUMP SUM		

SUMMARY OF QUANTITIES
SHEET 1 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:39:40 PM
RYAN.JOSEPH.LIBBERT-CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

PAVEMENT														
				SP125C w/ PG 70-22					BP-1 w/ PG 64-22					
LOG MILE			LENGTH	AVG WIDTH	DEPTH	AREA	TONS	TACK COAT	AVG WIDTH	DEPTH	AREA	TONS	TACK COAT	REMARKS
FROM	TO	LOCATION	FT	FT	IN	SY		GAL	FT	IN	SY		GAL	
WBL														
123.037	123.075	RTE 54 WB	200.64	32	2	713.39	76.37	71.34	8.0	2.0	178.35	19.30	17.84	
123.075	123.094	RTE 54 WB	100.32	32	3.75	356.69	71.60	35.67	8.0	2.5	89.17	12.06	8.92	TAPER RT SHLDR - 3" TO 2" DEPTH
123.094	123.453	RTE 54 WB	1895.52	32	3.75	6,739.63	1,352.84	673.96	8.0	2.5	1,684.91	227.93	168.49	TAPER RT SHLDR - 3" TO 2" DEPTH
123.453	123.500	RTE 54 WB	248.16	40.5	3.75	1,116.72	224.16	111.67						TAPER (RT) - 10' TO 11'
123.500	123.519	RTE 54 WB	100.32	44	3.75	490.45	98.45	49.05						TAPER (LT) - 6' TO 12', DECEL LANE (RT) - 11'
123.519	123.540	RTE 54 WB	110.88	38	3.75	468.16	93.97	46.82						TAPER (LT) - 12' TO 16', DECEL LANE (RT) - 11'
123.548		RTE 54 WB		VAR	2.875	633.00	97.41	63.30						SEE SS #1 - CROSSOVER (LT) (3" TO 1 1/4" DEPTH)
123.548		RTE 54 WB		VAR	2.50	786.00	105.18	78.60						SEE SS #1 - RTE AA (RT) (3" TO 2" DEPTH)
123.540	123.557	RTE 54 WB	89.76	24	3.75	239.36	48.05	23.94						
123.557	124.100	RTE 54 WB	2867.04	32	3.75	10,193.92	2,046.22	1,019.39	8.0	2.5	2,548.48	344.75	254.85	TAPER RT SHLDR - 3" TO 2" DEPTH
124.100	124.921	RTE 54 WB	4334.88	32	2	15,412.91	1,650.04	1,541.29	8.0	2.0	3,853.23	417.01	385.32	
124.921	124.949	RTE 54 WB	147.84	37	2	607.79	65.07	60.78	8.0	2.0	131.41	14.22	13.14	TAPER (LT) - 6' TO 16'
124.949	124.984	RTE 54 WB	184.80	48	2	985.60	105.51	98.56	8.0	2.0	164.27	17.78	16.43	TAPER (LT) - 16' TO 28'
124.984	125.023	RTE 54 WB	205.92	68	2	1,555.84	166.56	155.58						DECEL LANE (LT) - 28' - TAPER (RT) - 2' TO 16'
125.023	125.118	RTE 54 WB	501.60	16	2	891.73	95.46	89.17						DECEL LANE (LT) - 28' - DECEL LANE (RT) - 16'
125.118		RTE 54 WB		VAR	2	735.00	78.69	73.50						SEE SS #2 - CROSSOVER (LT)
125.118		RTE 54 WB		VAR	2	590.00	63.16	59.00						SEE SS #2 - OPIE RD (RT)
125.118	125.133	RTE 54 WB	79.20	24	2	211.20	22.61	21.12						
125.133	125.164	RTE 54 WB	163.68	32	2	581.97	62.30	58.20	8.0	2.0	145.49	15.75	14.55	
125.164	125.904	RTE 54 WB	3907.20	20	2	8,682.67	929.53	868.27	8.0	2.0	3,473.07	375.86	347.31	
125.904	125.918	RTE 54 WB	73.92	43	2	353.17	37.81	35.32						TAPER (RT) - 10' TO 16'
125.918	125.981	RTE 54 WB	332.64	46	2	1,700.16	182.01	170.02						DECEL LANE (RT) - 16'
125.981	126.042	RTE 54 WB	322.08	50	2	1,789.33	191.56	178.93						DECEL LANE (RT) - 16', TAPER LANE (LT) - 6' TO 13'
126.040		RTE 54 WB		VAR	1.375	240.00	17.66	24.00						SEE SS #3 - CROSSOVER (LT) (2" TO 3/4" DEPTH)
126.040		RTE 54 WB		VAR	2	275.00	29.44	27.50						SEE SS #3 - ATCHISON RD (RT)
126.042	126.061	RTE 54 WB	100.32	24	2	267.52	28.64	26.75						
126.061	126.080	RTE 54 WB	100.32	30	2	334.40	35.80	33.44						
126.080	126.574	RTE 54 WB	2608.32	32	2	9,274.03	992.84	927.40	8.0	2.0	2318.51	250.91	231.85	
126.574	126.634	RTE 54 WB	316.80	34	2	1,196.80	128.12	119.68						DECEL/TAPER LT)- 6' TO 14'
126.645		RTE 54 WB		VAR	1.375	322.00	23.70	32.20						SEE SS #3 - CROSSOVER (LT)(2" TO 3/4" DEPTH)
126.645		RTE 54 WB		VAR	2	194.00	20.77	19.40						SEE SS #3 - SHORT RD
126.634	126.655	RTE 54 WB	110.88	24	2	295.68	31.65	29.57						
126.655	127.322	RTE 54 WB	3521.76	32	2	12,521.81	1,340.53	1,252.18	8.0	2.0	3130.45	338.78	313.05	
127.322	127.342	RTE 54 WB	105.60	34	2	398.93	42.71	39.89	8.0	2.0	93.87	10.16	9.39	TAPER (LT) - 6' TO 10'
127.349		RTE 54 WB		VAR	1.375	365.00	26.86	36.50						SEE SS #4 - CROSSOVER (LT) (2" TO 3/4" DEPTH)
127.349		RTE 54 WB		VAR	2	265.00	28.37	26.50						SEE SS #4 - FRANK RD (RT)
127.342	127.363	RTE 54 WB	110.88	24	2	295.68	31.65	29.57						
127.363	128.542	RTE 54 WB	6225.12	32	2	22,133.76	2,369.54	2,213.38	8.0	2.0	5533.44	598.84	553.34	
128.542	128.582	RTE 54 WB	211.20	39	2	915.20	97.98	91.52						TAPER (LT)- 6' TO 10', TAPER (RT) - 2' TO 11'
128.582	128.608	RTE 54 WB	137.28	45	2	686.40	73.48	68.64						TAPER (LT) - 10', TAPER (RT) - 11'
128.616		RTE 54 WB		VAR	1.375	395.00	29.07	39.50						SEE SS #5 - CROSSOVER (LT) (2" TO 3/4" DEPTH)
128.616		RTE 54 WB		VAR	2	298.00	31.90	29.80						SEE SS #5 - KENT RD (RT)
128.608	128.628	RTE 54 WB	105.60	24	2	281.60	30.15	28.16						
128.628	129.181	RTE 54 WB	2919.84	32	2	10,381.65	1,111.41	1,038.17	8.0	2.0	2595.41	280.88	259.54	
129.181		RTE 54 WB		VAR	1.375	575.00	42.32	57.50						SEE SS #5 - J-TURN (LT) (2" TO 3/4" DEPTH)
129.181	129.202	RTE 54 WB	110.88	24	2	295.68	31.65	29.57						
129.202	129.240	RTE 54 WB	200.64	46.5	2	1,036.64	110.98	103.66	8.0	2.0	178.35	19.30	17.84	TAPER (LT) - 25' TO 16'
129.240	129.460	RTE 54 WB	1161.60	42	2	5,420.80	580.33	542.08	8.0	2.0	1032.53	111.74	103.25	DECEL/ ACCEL LANE (LT) - 16'
129.460	129.500	RTE 54 WB	211.20	59	2	1,384.53	148.22	138.45						DECEL/ TAPER (LT) - 16' TO 22', DECEL LANE (RT) -16'
129.590		RTE 54 WB		VAR	1.375	400.00	29.44	40.00						SEE SS #6 - OFFSET LEFT (LT) - 2" TO 3/4" DEPTH
129.500	129.536	RTE 54 WB	190.08	24	2	506.88	54.26	50.69						
129.536	129.587	RTE 54 WB	269.28	46	2	1,376.32	147.34	137.63						TAPER (LT) - 8' TO 4', DECEL LANE (RT) - 16'
129.590		RTE 54 WB		VAR	2	1,252.00	134.03	125.20						SEE SS #6 - RTE FF (RT)
129.623		RTE 54 WB		VAR	1.375	400.00	29.44	40.00						SEE SS #6 - OFFSET LEFT FROM EB (LT) - 2" TO 3/4" DEPTH
129.587	129.611	RTE 54 WB	126.72	24	2	337.92	36.18	33.79						
129.611	129.878	RTE 54 WB	1409.76	46	2	7,205.44	771.38	720.54						ACCEL LANE (RT) - 16'
129.878	130.597	RTE 54 WB	3796.32	32	2	13,498.03	1,445.04	1,349.80	8.0	2.0	3374.51	365.20	337.45	
130.597	130.619	RTE 54 WB	116.16	44	2	567.89	60.80	56.79						TAPER (RT) - 10' TO 18'
130.619	130.733	RTE 54 WB	601.92	48	2	3,210.24	343.67	321.02						DECEL LANE (RT) - 18'
130.743		RTE 54 WB		VAR	2	490.00	52.46	49.00						SEE SS #6 - RAMP GORE AREA (RT)
130.733	130.778	RTE 54 WB	237.60	24	2	633.60	67.83	63.36						
130.778	130.923	RTE 54 WB	765.60	32	2	2,722.13	291.42	272.21	8.0	2.0	680.53	73.65	68.05	
BRIDGE EXCEPTION - A2750 - LOG MILE 130.923 TO LOG MILE 130.961														
130.961	131.433	RTE 54 WB	2492.16	32	2	8,861.01	948.62	886.10	8.0	2.0	2215.25	239.74	221.53	
131.433	131.603	RTE 54 WB	897.60	30	2	2,992.00	320.31	299.20	8.0	2.0	797.87	86.35	79.79	
BRIDGE EXCEPTION - A6291 - LOG MILE 131.603 TO LOG MILE 131.672														
131.672	131.700	RTE 54 WB	147.84	30	2	492.80	52.76	49.28	8.0	2.0	131.41	14.22	13.14	
					SUBTOTALS (1)		20,085.31	17,083.10				3,834.43	3,435.07	

SUMMARY OF QUANTITIES
SHEET 2 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:43:04 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED: 8/5/2024
ROUTE: 54
STATE: MO
DISTRICT: CD
SHEET NO.: 3
COUNTY: MILLER
JOB NO.: J5P3500
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)

PAVEMENT CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	SP125C w/ PG 70-22 AVG WIDTH FT	SP125C DEPTH IN	SP125C AREA SY	SP125C TONS	SP125C TACK COAT GAL	BP-1 w/ PG 64-22 AVG WIDTH FT	BP-1 DEPTH IN	BP-1 AREA SY	BP-1 TONS	BP-1 TACK COAT GAL	REMARKS
131.700	131.744	RTE 54 WB	232.32	42	2	1,084.16	116.07	108.42						TAPER AREA (RT) - 14'
131.744	131.823	RTE 54 WB	417.12	42	2	1,946.56	208.39	194.66						DECEL LANE (RT) - 14'
131.839		RTE 54 WB		VAR	2	956.00	102.35	95.60						SEE SS #8 - RAMP GORE AREA (RT)
0.055	0.274	RP 54W TO 87	1156.32	36	2	4,625.28	495.16	462.53						RP PAVEMENT
131.823	131.867	RTE 54 WB	232.32	24	2	619.52	66.32	61.95						
131.867	132.068	RTE 54 WB	1061.28	30	2	3,537.60	378.72	353.76	8.0	2.0	943.36	102.09	94.34	
BRIDGE EXCEPTION - A5793 - LOG MILE 132.068 TO LOG MILE 132.122														
132.122	132.285	RTE 54 WB	860.64	30	2	2,868.80	307.12	286.88	8.0	2.0	765.01	82.79	76.50	
0.015	0.220	RP 87 TO 54W	1082.40	36	2	4,329.60	463.51	432.96						RP PAVEMENT
132.301		RTE 54 WB		VAR	2	648.00	69.37	64.80						SEE SS #8 - RAMP GORE AREA (RT)
132.285	132.320	RTE 54 WB	184.80	24	2	492.80	52.76	49.28						
132.320	132.400	RTE 54 WB	422.40	46	2	2,158.93	231.13	215.89						ACCEL LANE (RT) - 18'
132.400	132.470	RTE 54 WB	369.60	42	2	1,724.80	184.65	172.48						TAPER (RT) - 18' TO 10'
132.470	134.066	RTE 54 WB	8426.88	30	2	28,089.60	3,007.15	2,808.96	8.0	2.0	7,490.56	810.65	749.06	
134.066	134.228	RTE 54 WB	855.36	32	2	3,041.28	325.59	304.13	8.0	2.0	760.32	82.28	76.03	
BRIDGE EXCEPTION - A2752 - LOG MILE 134.228 TO LOG MILE 134.254														
134.254	135.007	RTE 54 WB	3975.84	30	2	13,252.80	1,418.79	1,325.28						
135.007	135.075	RTE 54 WB	359.04	45	2	1,795.20	192.19	179.52						TAPER/ DECEL LANE (RT) - 10' TO 24'
135.088		RTE 54 WB		VAR	2	295.00	31.58	29.50						SEE SS #10 - RAMP GORE AREA (RT)
0.004	0.135	RP 54W TO 52	691.68	20	2	1,537.07	164.55	153.71						RP PAVEMENT (RT)
135.075	135.105	RTE 54 WB	158.40	24	2	422.40	45.22	42.24						
135.105	135.386	RTE 54 WB	1483.68	30	2	4,945.60	529.45	494.56						
0.014	0.167	RP 52 TO 54W	807.84	21	2	1,884.96	201.80	188.50						RP PAVEMENT (RT)
135.405		RTE 54 WB		VAR	2	547.00	58.56	54.70						SEE SS #10 - RAMP GORE AREA (RT)
135.386	135.422	RTE 54 WB	190.08	24	2	506.88	54.26	50.69						
					SUBTOTALS (2)		8,704.69	8,131.00				1,077.81	995.93	

SUMMARY OF QUANTITIES
SHEET 3 OF 23

STATE OF MISSOURI
RYAN JOSEPH UBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:44:11 PM
RYAN JOSEPH UBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

PAVEMENT CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	SP125C w/ PG 70-22 AVG WIDTH FT	DEPTH IN	AREA SY	TONS	TACK COAT GAL	REMARKS
135.422	135.505	RTE 54 WB	438.24	46	2	2,239.89	239.79	223.99	ACCEL LANE (RT) - 18'
135.505	135.546	RTE 54 WB	216.48	42	2	1,010.24	108.15	101.02	TAPER (RT) - 18' TO 10'
135.546	135.991	RTE 54 WB	2349.60	30	2	7,832.00	838.46	783.20	
135.991	136.035	RTE 54 WB	232.32	36	2	929.28	99.48	92.93	TAPER (LT) - 4' TO 16'
136.050		RTE 54 WB		VAR	2	169.00	18.09	16.90	SEE SS #11 - CAVE DR. (RT)
136.050		RTE 54 WB		VAR	2	210.00	22.48	21.00	SEE SS #11 - CROSSOVER (LT)
136.035	136.054	RTE 54 WB	100.32	24	2	267.52	28.64	26.75	
136.054	136.806	RTE 54 WB	3970.56	30	2	13,235.20	1,416.90	1,323.52	
136.806	136.866	RTE 54 WB	316.80	35	2	1,232.00	131.89	123.20	TAPER/ DECEL (LT) - 4' TO 14'
136.871		RTE 54 WB		VAR	2	140.00	14.99	14.00	SEE SS #12 - CROSSOVER (LT)
136.866	136.880	RTE 54 WB	73.92	24	2	197.12	21.10	19.71	
136.880	137.352	RTE 54 WB	2492.16	30	2	8,307.20	889.33	830.72	
137.391	137.731	RTE 54 WB	1795.20	26	2	5,186.13	555.20	518.61	
137.731	137.772	RTE 54 WB	216.48	30	2	721.60	77.25	72.16	
137.772	137.951	RTE 54 WB	945.12	28	2	2,940.37	314.78	294.04	
137.951	138.130	RTE 54 WB	945.12	30	2	3,150.40	337.27	315.04	
138.130	138.291	RTE 54 WB	850.08	26	2	2,455.79	262.91	245.58	
138.291	138.633	RTE 54 WB	1805.76	30	2	6,019.20	644.39	601.92	
138.633	138.794	RTE 54 WB	850.08	26	2	2,455.79	262.91	245.58	
138.791		RTE 54 WB		VAR	2	182.00	19.48	18.20	SEE SS #14 - CROSSOVER (LT)
138.794	139.153	RTE 54 WB	1895.52	30	2	6,318.40	676.42	631.84	
139.153	139.174	RTE 54 WB	110.88	24	2	295.68	31.65	29.57	
139.174	139.448	RTE 54 WB	1446.72	26	2	4,179.41	447.43	417.94	
BRIDGE EXCEPTION - A2679 - LOG MILE 139.448 TO LOG MILE 139.486									
139.486	139.555	RTE 54 WB	364.32	28	2	1,133.44	121.34	113.34	
139.555	139.656	RTE 54 WB	533.28	30	2	1,777.60	190.30	177.76	
139.656	140.059	RTE 54 WB	2127.84	28	2	6,619.95	708.70	662.00	
140.059	140.300	RTE 54 WB	1272.48	30	2	4,241.60	454.09	424.16	
140.300	140.439	RTE 54 WB	733.92	26	2	2,120.21	226.98	212.02	
140.439	140.468	RTE 54 WB	153.12	24	2	408.32	43.71	40.83	
140.468	140.619	RTE 54 WB	797.28	28	2	2,480.43	265.54	248.04	
140.619	141.116	RTE 54 WB	2624.16	30	2	8,747.20	936.44	874.72	
141.116	141.135	RTE 54 WB	141.00	37	2	579.67	62.06	57.97	TAPER (LT) - 4' TO 14'
141.135	141.216	RTE 54 WB	427.68	38	2	1,805.76	193.32	180.58	DECEL LANE (LT) - 14'
141.230		RTE 54 WB		VAR	2	935.00	100.10	93.50	SEE SS #17 - CROSSOVER (LT)
141.216	141.241	RTE 54 WB	132.00	26	2	381.33	40.82	38.13	
141.241	141.481	RTE 54 WB	1267.20	28	2	3,942.40	422.06	394.24	
BRIDGE EXCEPTION - A16752 - LOG MILE 141.481 TO LOG MILE 141.522									
141.522	141.604	RTE 54 WB	432.96	28	2	1,346.99	144.20	134.70	
141.560		RTE 54 WB		VAR	2	750.00	80.29	75.00	SEE SS #18 - OFFSET LEFT FROM EB (LT)
141.604	141.628	RTE 54 WB	126.72	24	2	337.92	36.18	33.79	
141.628	141.959	RTE 54 WB	1747.68	30	2	5,825.60	623.66	582.56	
141.959	142.006	RTE 54 WB	248.16	41	2	1,130.51	121.03	113.05	TAPER (LT) - 10' TO 16'
142.006	142.759	RTE 54 WB	3975.84	44	2	19,437.44	2,080.89	1,943.74	DECEL LANE (LT) - 16'
142.854		RTE 54 WB	140.00	VAR	2	220.00	23.55	22.00	SEE SS #19 - BUS 54 RAMP (LT)
142.759	142.768	RTE 54 WB	47.52	24	2	126.72	13.57	12.67	
142.768	142.953	RTE 54 WB	976.80	30	2	3,256.00	348.57	325.60	
BRIDGE EXCEPTION - A8727 - LOG MILE 142.953 TO LOG MILE 143.001									
143.001	143.100	RTE 54 WB	522.72	30	2	1,742.40	186.53	174.24	
143.094		RTE 54 WB		VAR	2	504.00	53.96	50.40	SEE SS #20 - BUS 54 RAMP (RT)
143.100	143.147	RTE 54 WB	248.16	24	2	661.76	70.85	66.18	
143.147	143.306	RTE 54 WB	839.52	44	2	4,104.32	439.39	410.43	ACCEL LANE (RT) - 16'
143.306	143.386	RTE 54 WB	422.40	41	2	1,924.27	206.00	192.43	TAPER (RT) - 16' TO 10'
143.386	144.478	RTE 54 WB	5765.76	38	2	24,344.32	2,606.19	2,434.43	
144.478	144.519	RTE 54 WB	216.48	35	2	841.87	90.13	84.19	TAPER (LT) - 4' TO 14'
144.519	144.559	RTE 54 WB	211.20	51	2	1,196.80	128.12	119.68	TAPER (RT) - 10' TO 16'
144.559	144.611	RTE 54 WB	274.56	54	2	1,647.36	176.36	164.74	DECEL LANE (LT)
144.621		RTE 54 WB		VAR	2	535.00	57.27	53.50	SEE SS #21 - CROSSOVER (LT)
144.621		RTE 54 WB		VAR	2	795.00	85.11	79.50	SEE SS #21 - RIVER RD. (RT)
144.611	144.637	RTE 54 WB	137.28	24	2	366.08	39.19	36.61	
144.637	144.844	RTE 54 WB	1092.96	30	2	3,643.20	390.02	364.32	
BRIDGE EXCEPTION - A1479 - LOG MILE 144.844 TO LOG MILE 145.009									
145.009	145.100	RTE 54 WB	480.48	42	2	2,242.24	240.04	224.22	TAPER SHLDR/DECEL (LT) - 4' TO 14', TAPER SHLDR/DECEL (RT) - 4' TO 16'
145.100	145.140	RTE 54 WB	211.20	54	2	1,267.20	135.66	126.72	DECEL LANE (LT) - 14', DECEL LANE (RT) - 16'
145.140	145.180	RTE 54 WB	211.20	65	2	1,525.33	163.30	152.53	OFFSET LEFT/ TAPER (LT) - 14' TO 35', DECEL (RT) - 16
145.246		RTE 54 WB		VAR	2	170.00	18.20	17.00	SEE SS #22 - CROSSOVER (LT)
145.246		RTE 54 WB		VAR	2	1,243.00	133.07	124.30	SEE SS #22 - RTE 242 RAMP (RT)
0.024	0.216	RP 54W TO 242	1014.00	25	2	2,816.67	301.54	281.67	RP PAVEMENT (RT)
0.216	0.259	RP 54W TO 242	225.00	35	2	875.00	93.67	87.50	RP PAVEMENT (RT)
0.259	0.306	RP 54W TO 242	248.16	45	2	1,240.80	132.83	124.08	RP PAVEMENT (RT) - END PROJECT
145.180	145.183	RTE 54 WB	15.84	24	2	42.24	4.52	4.22	
145.183	145.243	RTE 54 WB	316.80	30	2	1,056.00	113.05	105.60	
					SUBTOTALS (3)		20,561.39	19,206.31	

SUMMARY OF QUANTITIES
SHEET 4 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:44:27 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
MILLER

JOB NO.
J5P3500

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)

PAVEMENT CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	SP125C w/ PG 70-22 AVG WIDTH FT	DEPTH IN	AREA SY	TONS	TACK COAT GAL	REMARKS
EBL									
126.638	126.642	RTE 54 EB	21.12	28	2	65.71	7.03	6.57	
126.638		RTE 54 EB		VAR	2	740.00	79.22	74.00	SEE SS #22 - WOODRIVER RD. (RT)
126.642	126.659	RTE 54 EB	89.76	24	2	239.36	25.62	23.94	
126.659	126.832	RTE 54 EB	913.44	30	2	3,044.80	325.96	304.48	
BRIDGE EXCEPTION - A5368 - LOG MILE 126.832 TO LOG MILE 126.994									
126.994	127.081	RTE 54 EB	459.36	30	2	1,531.20	163.92	153.12	
127.081	127.122	RTE 54 EB	216.48	45	2	1,082.40	115.88	108.24	TAPER (LT) - 4' TO 14', TAPER (RT) - 10' TO 14'
127.122	127.212	RTE 54 EB	475.20	52	2	2,745.60	293.93	274.56	DECEL (LT) - 14', DECEL (RT) - 14'
127.223		RTE 54 EB		VAR	2	610.00	65.30	61.00	SEE SS #21 - OSAGE RVR BRIDGE RD.
127.212	127.232	RTE 54 EB	105.60	24	2	281.60	30.15	28.16	
127.232	128.540	RTE 54 EB	6906.24	30	2	23,020.80	2,464.50	2,302.08	
127.881		RTE 54 EB		VAR	2	250.00	26.76	25.00	SEE SS #20 - ISLESWORTH AVE.
128.540	128.600	RTE 54 EB	316.80	41	2	1,443.20	154.50	144.32	TAPER (RT) - 10' TO 16'
128.600	128.700	RTE 54 EB	528.00	44	2	2,581.33	276.35	258.13	DECEL LANE (RT) - 16'
128.700	128.770	RTE 54 EB	369.60	33	2	1,355.20	145.08	135.52	RAMP (RT) - 5'
128.770	128.788	RTE 54 EB	95.04	49.5	2	522.72	55.96	52.27	RAMP (RT) - 21.5'
128.788	128.851	RTE 54 EB	332.64	30	2	1,108.80	118.70	110.88	
BRIDGE EXCEPTION - A8807 - LOG MILE 128.851 TO LOG MILE 128.898									
128.898	128.988	RTE 54 EB	475.20	30	2	1,584.00	169.58	158.40	
128.988	129.039	RTE 54 EB	269.28	33	2	987.36	105.70	98.74	RAMP (RT) - 5'
129.039	129.195	RTE 54 EB	823.68	44	2	4,026.88	431.10	402.69	ACCEL LANE (RT) - 16'
129.195	129.279	RTE 54 EB	443.52	41	2	2,020.48	216.30	202.05	TAPER (RT) - 16' TO 10'
129.279	130.049	RTE 54 EB	4065.60	30	2	13,552.00	1,450.82	1,355.20	
130.049	130.076	RTE 54 EB	142.56	36	2	570.24	61.05	57.02	TAPER (LT) - 4' TO 16'
130.076	130.157	RTE 54 EB	427.68	42	2	1,995.84	213.67	199.58	DECEL LANE (LT) - 16'
130.185	130.306	RTE 54 EB	638.88	30	2	2,129.60	227.99	212.96	
BRIDGE EXCEPTION - A16751 - LOG MILE 130.306 TO LOG MILE 130.347									
130.347	130.478	RTE 54 EB	691.68	30	2	2,305.60	246.83	230.56	
130.478	130.504	RTE 54 EB	137.28	36	2	549.12	58.79	54.91	TAPER (LT) - 4' TO 16'
130.504	130.524	RTE 54 EB	105.60	40	2	469.33	50.24	46.93	DECEL LANE (LT) - 16'
130.524	130.560	RTE 54 EB	190.08	54.5	2	1,151.04	123.23	115.10	TAPER (RT) - 10' TO 19', DECEL (RT) - 16'
130.560	130.587	RTE 54 EB	142.56	62.5	2	990.00	105.99	99.00	TAPER/ DECEL LANE (RT) - 19' TO 26', DECEL (RT) - 16'
130.610		RTE 54 EB		VAR	2	430.00	46.03	43.00	SEE SS #17 - RTE V (RT)
130.587	130.619	RTE 54 EB	168.96	24	2	450.56	48.23	45.06	
130.619	131.364	RTE 54 EB	3933.60	28	2	12,237.87	1,310.13	1,223.79	
130.918	131.366	RTE 54 EB	2365.44	30	2	7,884.80	844.11	788.48	
131.366	131.389	RTE 54 EB	121.44	24	2	323.84	34.67	32.38	
131.389	131.862	RTE 54 EB	2497.44	26	2	7,214.83	772.39	721.48	
131.862	132.028	RTE 54 EB	876.48	28	2	2,726.83	291.92	272.68	
132.028	132.330	RTE 54 EB	1594.56	30	2	5,315.20	569.02	531.52	
BRIDGE EXCEPTION - A2678 - LOG MILE 132.330 TO LOG MILE 132.368									
132.368	132.489	RTE 54 EB	638.88	30	2	2,129.60	227.99	212.96	
132.489	132.688	RTE 54 EB	1050.72	26	2	3,035.41	324.96	303.54	
132.688	132.877	RTE 54 EB	997.92	30	2	3326.40	356.11	332.64	
132.877	132.976	RTE 54 EB	522.72	28	2	1626.24	174.10	162.62	
132.976	133.036	RTE 54 EB	316.80	30	2	1056.00	113.05	105.60	TAPER SHLDR - (LT) - 4' TO 8'
133.036	133.042	RTE 54 EB	31.68	24	2	84.48	9.04	8.45	
133.042	133.076	RTE 54 EB	179.52	28	2	558.51	59.79	55.85	
133.076	133.549	RTE 54 EB	2497.44	30	2	8324.80	891.22	832.48	
133.549	133.578	RTE 54 EB	153.12	24	2	408.32	43.71	40.83	
133.578	133.731	RTE 54 EB	807.84	26	2	2333.76	249.84	233.38	
133.731	133.746	RTE 54 EB	79.20	30	2	264.00	28.26	26.40	
133.746	133.927	RTE 54 EB	955.68	28	2	2973.23	318.30	297.32	
133.927	134.317	RTE 54 EB	2059.20	30	2	6864.00	734.83	686.40	
134.317	134.484	RTE 54 EB	881.76	26	2	2547.31	272.70	254.73	
134.484	134.918	RTE 54 EB	2291.52	30	2	7,638.40	817.73	763.84	
134.918	134.953	RTE 54 EB	184.80	34	2	698.13	74.74	69.81	TAPER (LT) - 4' TO 12'
134.967		RTE 54 EB		VAR.	2	185.00	19.81	18.50	SEE SS #12 - CROSSOVER (LT)
134.953	134.977	RTE 54 EB	126.72	24	2	337.92	36.18	33.79	
134.977	135.720	RTE 54 EB	3923.04	30	2	13,076.80	1399.94	1307.68	
135.720	135.772	RTE 54 EB	274.56	47	2	1,433.81	153.50	143.38	TAPER (LT) - 4' TO 12', TAPER/DECEL (RT) - 10' TO 20'
138.782		RTE 54 EB		VAR.	2	200.00	21.41	20.00	SEE SS #11 - CROSSOVER (LT)
135.782		RTE 54 EB		VAR	2	185.00	19.81	18.50	SEE SS #11 - CAVE DR.
135.772	135.802	RTE 54 EB	158.40	24	2	422.40	45.22	42.24	
135.802	136.270	RTE 54 EB	2471.04	30	2	8,236.80	881.80	823.68	
136.270	136.314	RTE 54 EB	232.32	41	2	1,058.35	113.30	105.84	TAPER (RT) - 10' to 16'
					SUBTOTALS (4)		19,113.99	17,854.26	

SUMMARY OF QUANTITIES
SHEET 5 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:44:45 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

PAVEMENT CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	SP125C w/ PG 70-22 AVG WIDTH FT	DEPTH IN	AREA SY	TONS	TACK COAT GAL	REMARKS
136.314	136.333	RTE 54 EB	100.32	44	2	490.45	52.51	49.05	DECEL LANE (RT) - 16'
136.360		RTE 54 EB		VAR	2	733.00	78.47	73.30	SEE SS #10 (RT) - RAMP GORE AREA
0.049	0.220	RP 54E TO 52	902.88	21	2	2,106.72	225.54	210.67	RP PAVEMENT (RT)
0.220	0.227	RP 54E TO 52		VAR	2	325.00	34.79	32.50	RP PAVEMENT (RT)
136.333	136.377	RTE 54 EB	232.32	24	2	619.52	66.32	61.95	
136.377	136.719	RTE 54 EB	1805.76	30	2	6,019.20	644.39	601.92	
0.016	0.166	RP 52 TO 54E	792.00	21	2	1,848.00	197.84	184.80	RP PAVEMENT (RT)
136.716		RTE 54 EB		VAR	2	480.00	51.39	48.00	SEE SS #10 - RAMP GORE AREA (RT)
136.719	136.749	RTE 54 EB	158.40	24	2	422.40	45.22	42.24	
136.749	136.843	RTE 54 EB	496.32	46	2	2,536.75	271.57	253.68	ACCEL LANE (RT) - 18'
136.842	136.880	RTE 54 EB	200.64	42	2	936.32	100.24	93.63	TAPER (RT) - 18' TO 10'
136.880	137.573	RTE 54 EB	3659.04	30	2	12,196.80	1305.74	1219.68	
BRIDGE EXCEPTION - A2752 - LOG MILE 137.573 TO LOG MILE 137.598									
137.598	139.375	RTE 54 EB	9382.56	30	2	31,275.20	3,348.18	3,127.52	
139.375	139.413	RTE 54 EB	200.64	42	2	936.32	100.24	93.63	TAPER (RT) - 10' TO 18'
139.413	139.486	RTE 54 EB	385.44	46	2	1,970.03	210.90	197.00	DECEL LANE (RT) - 18'
139.510		RTE 54 EB		VAR	2	454.00	48.60	45.40	SEE SS #8 - RAMP GORE AREA (RT)
0.020	0.251	RP 54E TO 87	1219.68	30	2	4,065.60	435.25	406.56	RP PAVEMENT
139.486	139.513	RTE 54 EB	142.56	24	2	380.16	40.70	38.02	
139.513	139.657	RTE 54 EB	760.32	30	2	2,534.40	271.32	253.44	
139.657	139.675	RTE 54 EB	95.04	34	2	359.04	38.44	35.90	SHLDR WIDENING (LT) - 8'
					SUBTOTALS (5)		7,567.65	7,068.89	

SUMMARY OF QUANTITIES
SHEET 6 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:45:02 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

PAVEMENT CONITUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	SP125C w/ PG 70-22 AVG WIDTH FT	DEPTH IN	AREA SY	TONS	TACK COAT GAL	REMARKS
0.014	0.162	RP 87 TO 54E	781.44	36	2	3,125.76	334.63	312.58	RP PAVEMENT
139.676		RTE 54 EB		VAR	2	300.00	32.12	30.00	SEE SS #8 - RAMP GORE AREA (RT)
139.675	139.694	RTE 54 EB	100.32	24	2	267.52	28.64	26.75	
139.694	139.702	RTE 54 EB	42.24	46	2	215.89	23.11	21.59	ACCEL LANE (RT) - 18'
BRIDGE EXCEPTION - A5792 - LOG MILE 139.702 TO LOG MILE 139.754									
139.754	139.955	RTE 54 EB	1061.28	46	2	5,424.32	580.70	542.43	ACCEL LANE (RT) - 18'
139.555	140.000	RTE 54 EB	2349.60	42	2	10,964.80	1,173.84	1,096.48	TAPER (RT) - 18' TO 10'
140.000	140.191	RTE 54 EB	1008.48	30	2	3,361.60	359.88	336.16	
140.120	140.191	RTE 54 EB	374.88	36	2	1,499.52	160.53	149.95	SHLDR WIDENING (LT) - 10'
BRIDGE EXCEPTION - A2751 - LOG MILE 140.191 TO LOG MILE 140.226									
140.226	140.256	RTE 54 EB	158.40	33	2	580.80	62.18	58.08	SHLDR WIDENING TAPER (LT) - 10' TO 4'
140.256	140.815	RTE 54 EB	2951.52	31	2	10,166.35	1,088.36	1,016.64	SHLDR WIDENING TAPER (LT) - 4' TO 6'
140.815	140.874	RTE 54 EB	311.52	32	2	1,107.63	118.58	110.76	
BRIDGE EXCEPTION - A2749 - LOG MILE 140.874 TO LOG MILE 140.919									
140.919	140.955	RTE 54 EB	190.08	31	2	654.72	70.09	65.47	SHLDR WIDENING TAPER (LT) - 6' TO 4'
140.955	141.085	RTE 54 EB	686.40	30	2	2,288.00	244.94	228.80	
141.085		RTE 54 EB		VAR	2	738.00	79.01	73.80	SEE SS #7 - RAMP GORE AREA (RT)
141.085	141.118	RTE 54 EB	174.24	24	2	464.64	49.74	46.46	
141.118	141.207	RTE 54 EB	469.92	46	2	2,401.81	257.13	240.18	ACCEL LANE (RT) - 18'
141.207	141.249	RTE 54 EB	221.76	42	2	1,034.88	110.79	103.49	TAPER (RT) - 18' TO 10'
141.249	142.030	RTE 54 EB	4123.68	26	2	11,912.85	1,275.34	1,191.29	
142.030	142.094	RTE 54 EB	337.92	37	2	1,389.23	148.72	138.92	TAPER (LT) - 6' TO 16'
142.094	142.126	RTE 54 EB	168.96	40	2	750.93	80.39	75.09	DECEL LANE (LT) - 16'
142.126	142.218	RTE 54 EB	485.76	47	2	2,536.75	271.57	253.68	SEE SS #6 - OFFSET LEFT (LT) - 16' TO 30'
142.173	142.214	RTE 54 EB	216.48	30	2	721.60	77.25	72.16	SHLDR (LT) - 8' TO 4'
142.222	142.240	RTE 54 EB	95.04	24	2	253.44	27.13	25.34	
142.240	142.312	RTE 54 EB	380.16	28	2	1,182.72	126.62	118.27	
142.312	142.334	RTE 54 EB	116.16	34	2	438.83	46.98	43.88	TAPER (LT) - 4' TO 16'
142.334	142.634	RTE 54 EB	1584.00	26	2	4,576.00	489.89	457.60	DECEL LANE - J-TURN (LT) - 16' TO 36'
142.514	142.634	RTE 54 EB	633.60	26	2	1,830.40	195.95	183.04	
142.634	143.139	RTE 54 EB	2666.40	30	2	8,888.00	951.51	888.80	
143.139	143.195	RTE 54 EB	295.68	34	2	1,117.01	119.58	111.70	SHLDR WIDENING (LT) - 8'
143.202		RTE 54 EB		VAR.	2	255.00	27.30	25.50	SEE SS #5 - CROSSOVER (LT)
143.195	143.214	RTE 54 EB	100.32	24	2	267.52	28.64	26.75	
143.214	144.417	RTE 54 EB	6351.84	30	2	21,172.80	2,266.67	2,117.28	
144.417	144.457	RTE 54 EB	180.00	36	2	720.00	77.08	72.00	TAPER (LT) - 4' TO 16'
144.471		RTE 54 EB		VAR.	2	315.00	33.72	31.50	SEE SS #4 - CROSSOVER (LT)
144.457	144.476	RTE 54 EB	100.32	24	2	267.52	28.64	26.75	
144.476	145.114	RTE 54 EB	3368.64	30	2	11,228.80	1,202.11	1,122.88	
145.114	145.136	RTE 54 EB	116.16	36	2	464.64	49.74	46.46	TAPER (LT) - 4' TO 16'
145.136	145.156	RTE 54 EB	105.60	53	2	621.87	66.57	62.19	TAPER (RT) - 10' TO 16'
145.156	145.165	RTE 54 EB	47.52	56	2	295.68	31.65	29.57	DECEL (LT) - 16', DECEL (RT) - 16'
145.172		RTE 54 EB		VAR.	2	315.00	33.72	31.50	SEE SS #3 - CROSSOVER (LT)
145.172		RTE 54 EB		VAR.	2	760.00	81.36	76.00	SEE SS #3 - ROUTE MM (RT)
145.165	145.187	RTE 54 EB	116.16	24	2	309.76	33.16	30.98	
145.187	145.608	RTE 54 EB	2222.88	30	2	7,409.60	793.24	740.96	
145.608	145.679	RTE 54 EB	374.88	35	2	1,457.87	156.07	145.79	TAPER (LT) - 2' TO 16'
145.679	145.699	RTE 54 EB	105.60	42	2	492.80	52.76	49.28	DECEL LANE (LT) - 16'
145.699	145.797	RTE 54 EB	517.44	72	2	4,139.52	443.16	413.95	DECEL LANE (LT) - 16' TO 75'
145.800		RTE 54 EB		VAR.	2	240.00	25.69	24.00	SEE SS #3 - CROSSOVER (LT)
145.797	145.818	RTE 54 EB	110.88	24	2	295.68	31.65	29.57	
145.818	146.518	RTE 54 EB	3696.00	30	2	12,320.00	1,318.92	1,232.00	
146.518	146.563	RTE 54 EB	237.60	34	2	897.60	96.09	89.76	TAPER (LT) - 4' TO 16'
146.563	146.630	RTE 54 EB	353.76	40	2	1,572.27	168.32	157.23	DECEL LANE (LT) - 16'
146.630	146.709	RTE 54 EB	417.12	52	2	2,410.03	258.01	241.00	DECEL LANE (LT) - 16' TO 40'
146.709	146.719	RTE 54 EB	52.80	24	2	140.80	15.07	14.08	
146.719	146.740	RTE 54 EB	110.88	28	2	344.96	36.93	34.50	
146.740	148.216	RTE 54 EB	7793.28	30	2	25,977.60	2,781.05	2,597.76	
148.216	148.273	RTE 54 EB	300.96	41	2	1,371.04	146.78	137.10	TAPER/ DECEL LANE (LT) - 4' TO 25'
148.273	148.290	RTE 54 EB	89.76	51	2	508.64	54.45	50.86	
148.290	148.294	RTE 54 EB	21.12	41	2	96.21	10.30	9.62	TAPER (LT) - 25' TO 4'
148.294	148.761	RTE 54 EB	2465.76	30	2	8,219.20	879.91	821.92	
					SUBTOTALS (6)		19,813.96	18,508.13	

SUMMARY OF QUANTITIES
SHEET 7 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:45:24 PM
RYAN.JOSEPH.LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

PAVEMENT TOTALS

	SUBTOTAL (1)	SUBTOTAL (2)	SUBTOTAL (3)	SUBTOTAL (4)	SUBTOTAL (5)	SUBTOTAL (6)	TOTAL	USE
SP125C w/ PG 70-22	20,085.31	8,704.69	20,561.39	19,113.99	7,567.65	19,813.96	95,846.99	95,847.0
BP-1 w/ PG 64-22	3,834.43	1,077.81	0.00	0.00	0.00	0.00	4,912.24	4,912.2
TACK COAT	20,518.17	9,126.93	19,206.31	17,854.26	7,068.89	18,508.13	92,282.69	92,283

GUARD CABLE - HIGH TENSION 3 STRAND

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	HIGH TENSION GUARD CABLE LF	HTGC ANCHOR ASSEMBLY EA	CABLE TO GUARDRAIL TRANSITION EA	6.5' VEGETATIVE BARRIER 3" DEPTH SY *	SHAPING SLOPES CL II 100 FT	LINEAR GRADING CLASS 1 STA.	SEEDING COOL SEASON MIX ACRES	MULCHING ACRES
WBL											
125.127	125.324	WB LT.	1,040.2	1,040.2	2		751.3	10.4	10.4	0.12	0.12
126.052	126.117	WB LT.	343.2	343.2	2		247.9	3.4	3.4	0.04	0.04
126.567	126.640	WB LT.	385.4	385.4	2		278.3	3.9	3.9	0.04	0.04
129.200	129.570	WB LT.	1,953.6	1,953.6	2		1410.9	19.5	19.5	0.22	0.22
129.602	130.876	WB LT.	6,726.7	6,726.7	2		4858.2	67.3	67.3	0.77	0.77
133.720	134.198	WB LT.	2,523.8	2,523.8	1	1	1822.7	25.2	25.2	0.29	0.29
137.372	138.261	WB LT.	4,693.9	4,693.9	2		3390.0	46.9	46.9	0.54	0.54
138.283	138.774	WB LT.	2,592.5	2,592.5	2		1872.4	25.9	25.9	0.30	0.30
138.793	139.136	WB LT.	1,811.0	1,811.0	2		1307.9	18.1	18.1	0.21	0.21
139.155	139.380	WB LT.	1,188.0	1,188.0	1	1	858.0	11.9	11.9	0.14	0.14
141.236	141.421	WB LT.	976.8	976.8	1	1	705.5	9.8	9.8	0.11	0.11
141.555	141.608	WB LT.	279.8	279.8	1	1	202.1	2.8	2.8	0.03	0.03
141.635	142.957	WB LT.	6,980.2	6,980.2	1	1	5041.3	69.8	69.8	0.80	0.80
144.637	144.784	WB LT.	776.2	776.2	1	1	560.6	7.8	7.8	0.09	0.09
145.199	145.245	WB LT.	242.9	242.9	2		175.4	2.4	2.4	0.03	0.03
EBL											
126.665	126.739	EB LT.	390.7	390.7	1	1	282.2	3.9	3.9	0.04	0.04
127.234	128.844	EB LT.	8,500.8	8,500.8	1	1	6139.5	85.0	85.0	0.98	0.98
130.614	131.364	EB LT.	3,960.0	3,960.0	2		2860.0	39.6	39.6	0.45	0.45
131.386	132.284	EB LT.	4,741.4	4,741.4	1	1	3424.3	47.4	47.4	0.54	0.54
134.497	134.958	EB LT.	2,434.1	2,434.1	2		1758.0	24.3	24.3	0.28	0.28
134.977	135.772	EB LT.	4,197.6	4,197.6	2		3031.6	42.0	42.0	0.48	0.48
135.790	136.542	EB LT.	3,970.6	3,970.6	1	1	2867.7	39.7	39.7	0.46	0.46
136.603	136.815	EB LT.	1,119.4	1,119.4	1	1	808.5	11.2	11.2	0.13	0.13
136.835	137.525	EB LT.	3,643.2	3,643.2	1	1	2631.2	36.4	36.4	0.42	0.42
138.136	139.662	EB LT.	8,057.3	8,057.3	1	1	5819.2	80.6	80.6	0.92	0.92
139.768	140.136	EB LT.	1,943.0	1,943.0		2	1403.3	19.4	19.4	0.22	0.22
140.246	140.841	EB LT.	3,141.6	3,141.6		2	2268.9	31.4	31.4	0.36	0.36
145.092	145.170	EB LT.	411.8	411.8	2		297.4	4.1	4.1	0.05	0.05
145.819	146.704	EB LT.	4,672.8	4,672.8	2		3374.8	46.7	46.7	0.54	0.54
146.718	148.273	EB LT.	8,210.4	8,210.4	2		5929.7	82.1	82.1	0.94	0.94
			TOTAL	91908.9	43	17	66378.8	918.9	918.9	10.54	10.54
			USE	91909	43	17	66378.8	919	918.9	10.5	10.5

* WIDTH OF VEGITATION BARRIER WILL VARY BASED ON VARYING WIDTHS OF SHOULDER, PAY SHALL BE FOR 6.5' WIDTH.

GUARDRAIL

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH	MGS GUARDRAIL LF	MGS BRIDGE APPROACH TRANS. SECT. REG/ NO CURB EA	MGS END ANCHOR EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CLASS 3 STA	REMARKS
WBL									
131.552	131.617	RTE 54 WB Lt.	387.5	300	1		1	0.75	BEFORE BR A6291
131.573	131.617	RTE 54 WB Rt.	300	212.5	1		1	0.75	BEFORE BR A6291
132.000	132.068	RTE 54 WB Lt.	387.5	300	1		1	0.75	BEFORE BR A5793
132.015	132.068	RTE 54 WB Rt.	312.5	225	1		1	0.75	BEFORE BR A5793
135.212	135.284	RTE 54 WB Lt.	375	312.5		1	1	0.75	MEDIAN AT BR A2810
EBL									
130.358	130.440	RTE 54 EB Rt.	450	225	1	1			AFTER BR A16751
136.537	136.608	RTE 54 EB Lt.	375	312.5		1	1	0.75	MEDIAN AT BR A2810
139.754	139.773	RTE 54 EB Lt.	100		1	1			AFTER BR A5792
140.232	140.251	RTE 54 EB Lt.	100		1	1			AFTER BR A2751
			TOTAL	1887.5	7	5.0	6	4.5	
			USE	1888.0	7	5.0	6	5.0	

SUMMARY OF QUANTITIES
SHEET 8 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:45:42 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

BITUMINOUS SHOULDER RUMBLE STRIPS

LOG MILE FROM	LOG MILE TO	ROUTE	LENGTH FT	BIT SHDR RUMBLE STRIPS STA	REMARK
WBL					
123.077	123.46	US54 WBL	2022.24	20.2	RT.
123.077	123.5	US 54 WBL	2233.44	22.3	LT.
123.560	124.923	US54 WBL	7196.64	72.0	LT.
123.560	124.984	US54 WBL	7518.72	75.2	RT.
125.124	126.025	US 54 WBL	4757.28	47.6	LT.
125.164	125.901	US 54 WBL	3891.36	38.9	RT.
126.061	126.583	US 54 WBL	2756.16	27.6	LT.
126.080	126.630	US 54 WBL	2904	29.0	RT.
126.662	127.342	US 54 WBL	3590.4	71.8	LT. & RT.
127.363	128.542	US 54 WBL	6225.12	62.3	RT.
127.363	128.602	US 54 WBL	6541.92	65.4	LT.
128.641	129.181	US 54 WBL	2851.2	28.5	LT.
128.641	129.460	US 54 WBL	4324.32	43.2	RT.
129.619	130.923	US 54 WBL	6885.12	68.9	LT.
129.878	130.597	US 54 WBL	3796.32	38.0	RT.
130.777	130.923	US 54 WBL	770.88	7.7	RT.
130.961	131.603	US 54 WBL	3389.76	67.8	LT. & RT.
131.672	132.068	US 54 WBL	2090.88	20.9	LT.
131.372	131.713	US 54 WBL	1800.48	18.0	RT.
131.852	132.068	US 54 WBL	1140.48	11.4	RT.
132.122	134.228	US 54 WBL	11119.68	111.2	LT.
132.122	132.294	US 54 WBL	908.16	9.1	RT.
132.474	134.228	US 54 WBL	9261.12	92.6	RT.
134.254	135.012	US 54 WBL	4002.24	40.0	RT.
134.254	135.991	US 54 WBL	9171.36	91.7	LT.
135.092	135.412	US 54 WBL	1689.6	16.9	RT.
135.552	136.031	US 54 WBL	2529.12	25.3	RT.
136.070	136.811	US 54 WBL	3912.48	39.1	LT.
136.070	136.851	US 54 WBL	4123.68	41.2	RT.
136.892	137.350	US 54 WBL	2418.24	48.4	LT. & RT.
137.391	137.772	US 54 WBL	2011.68	20.1	RT.
137.731	138.130	US 54 WBL	2106.72	21.1	LT.
137.951	138.773	US 54 WBL	4340.16	43.4	RT.
138.291	138.633	US 54 WBL	1805.76	18.1	LT.
138.813	139.153	US 54 WBL	1795.2	35.9	LT. & RT.
139.174	139.448	US 54 WBL	1446.72	14.5	RT.
139.375	139.448	US 54 WBL	385.44	3.9	LT.
139.486	140.300	US 54 WBL	4297.92	43.0	LT.
139.555	139.656	US 54 WBL	533.28	5.3	RT.
140.059	140.439	US 54 WBL	2006.4	20.1	RT.
140.460	141.116	US 54 WBL	3463.68	34.6	LT.
140.619	141.216	US 54 WBL	3152.16	31.5	RT.
141.260	141.481	US 54 WBL	1166.88	23.3	LT. & RT.
141.522	141.600	US 54 WBL	411.84	4.1	LT.
141.640	142.953	US 54 WBL	6932.64	69.3	LT.
141.959	142.614	US 54 WBL	3458.4	34.6	RT.
142.733	142.953	US 54 WBL	1161.6	11.6	RT.
143.001	143.115	US 54 WBL	601.92	6.0	RT.
143.001	144.478	US 54 WBL	7798.56	78.0	LT.
143.395	144.059	US 54 WBL	3505.92	35.1	RT.
144.099	144.499	US 54 WBL	2112	21.1	RT.
144.638	144.844	US 54 WBL	1087.68	21.8	LT. & RT.
145.200	145.243	US 54 WBL	227.04	4.5	LT.
			TOTAL	1953.1	
			USE	1953.1	

BITUMINOUS SHOULDER RUMBLE STRIPS

LOG MILE FROM	LOG MILE TO	ROUTE	LENGTH FT	BIT SHDR RUMBLE STRIPS STA	REMARKS
EBL					
126.662	126.832	US54 EBL	897.6	9.0	LT.
126.683	126.832	US54 EBL	786.72	7.9	RT.
126.994	127.081	US54 EBL	459.36	4.6	LT.
126.994	127.101	US54 EBL	564.96	5.6	RT.
127.241	128.851	US54 EBL	8500.8	85.0	LT.
127.241	127.862	US54 EBL	3278.88	32.8	RT.
127.922	128.540	US54 EBL	3263.04	32.6	RT.
128.779	128.851	US54 EBL	380.16	3.8	RT.
128.898	130.058	US54 EBL	6124.8	61.2	LT.
128.898	128.999	US54 EBL	533.28	5.3	RT.
129.280	130.219	US54 EBL	4957.92	49.6	RT.
130.179	130.306	US54 EBL	670.56	6.7	LT.
130.240	130.306	US54 EBL	348.48	3.5	RT.
130.360	130.479	US54 EBL	628.32	6.3	LT.
130.360	130.539	US54 EBL	945.12	9.5	RT.
130.619	131.377	US54 EBL	4002.24	40.0	LT.
130.958	131.216	US54 EBL	1362.24	13.6	RT.
131.256	131.377	US54 EBL	638.88	6.4	RT.
131.395	131.757	US54 EBL	1911.36	19.1	RT.
131.737	132.330	US54 EBL	3131.04	31.3	LT.
131.797	131.858	US54 EBL	322.08	3.2	RT.
132.037	132.330	US54 EBL	1547.04	15.5	RT.
132.368	132.479	US54 EBL	586.08	5.9	LT.
132.368	132.877	US54 EBL	2687.52	26.9	RT.
132.697	133.016	US54 EBL	1684.32	16.8	LT.
133.055	133.557	US54 EBL	2650.56	26.5	LT.
133.076	133.557	US54 EBL	2539.68	25.4	RT.
133.578	133.758	US54 EBL	950.4	9.5	RT.
133.737	134.317	US54 EBL	3062.4	30.6	LT.
133.937	135.735	US54 EBL	9493.44	94.9	RT.
134.497	134.937	US54 EBL	2323.2	23.2	LT.
134.977	135.735	US54 EBL	4002.24	40.0	LT.
135.795	137.573	US54 EBL	9387.84	93.9	LT.
135.814	136.275	US54 EBL	2434.08	24.3	RT.
136.356	136.735	US54 EBL	2001.12	20.0	RT.
136.894	137.573	US54 EBL	3585.12	35.9	RT.
137.598	139.375	US54 EBL	9382.56	93.8	RT.
137.598	139.702	US54 EBL	11109.12	111.1	LT.
139.496	139.676	US54 EBL	950.4	9.5	RT.
139.754	140.191	US54 EBL	2307.36	23.1	LT.
139.996	140.191	US54 EBL	1029.6	10.3	RT.
140.226	140.874	US54 EBL	3421.44	68.4	LT. & RT.
140.936	141.095	US54 EBL	839.52	8.4	RT.
140.936	142.033	US54 EBL	5792.16	57.9	LT.
141.255	142.094	US54 EBL	4429.92	44.3	RT.
142.514	143.176	US54 EBL	3495.36	35.0	RT.
142.636	143.136	US54 EBL	2640	26.4	LT.
143.216	144.417	US54 EBL	6341.28	63.4	LT.
143.216	144.436	US54 EBL	6441.6	64.4	RT.
144.497	145.116	US54 EBL	3268.32	32.7	LT.
144.497	145.136	US54 EBL	3373.92	33.7	RT.
145.178	145.618	US54 EBL	2323.2	23.2	LT.
145.178	145.780	US54 EBL	3178.56	31.8	RT.
145.819	146.520	US54 EBL	3701.28	37.0	LT.
145.819	146.559	US54 EBL	3907.2	39.1	RT.
146.740	148.217	US54 EBL	7798.56	78.0	LT.
146.740	148.257	US54 EBL	8009.76	80.1	RT.
148.297	148.750	US54 EBL	2391.84	47.8	LT. & RT.
			TOTAL	1945.7	
			USE	1945.7	

RUMBLE TOTALS

	WB	EB	TOTAL	USE
SHOULDER RUMBLES	1,953.10	1,945.70	3,898.80	3,898.8

SUMMARY OF QUANTITIES

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:45:59 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY MILLER

JOB NO. J5P3500

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)

EROSION CONTROL

LOG MILE FROM	LOG MILE TO	LOCATION	ROCK DITCH CHECKS INLET LF	ROCK DITCH CHECKS DITCH LF	SEDIMENT REMOVAL CY	SILT FENCE LF	REMARKS
RTE 54 WB AND EB							
123.077	145.243	RTE. 54 MEDIAN	2625		75		EXIST. INLETS IN MEDIAN
125.327	125.380	RTE. 54 MEDIAN		30	3		EXIST. DITCH TO BOX
RAMP WIDENING							
0+00.00		RAMP RT.		36		35	DITCH CHECKS AT 15' SP.
							LOG MILES BASED OFF OF WB LANES
		TOTAL	2625	66	78	35	SEE STD 806.10 FOR EROSION CONTROL SPACING
		USE	2691		78	35	

GRAVEL (A), CRUSHED STONE (B)

LOG MILE FROM	LOG MILE TO	ROUTE	AREA SF	TONS	REMARK
133.711	WB	US 54 MEDIAN	2085	27.1	MEDIAN EMERGENCY CROSSOVER
135.018	WB	US 54 MEDIAN	1025	13.3	MEDIAN EMERGENCY CROSSOVER
			TOTAL	40.4	
			USE	40	

MODIFIED COLDMILLING

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	DEPTH IN	MODIFIED MILL (DEPTH TRANS) SQYD	REMARKS
WB							
123.027	123.075	US54 WBL	200.0	32	1.375	711.11	FROM 2" DEPTH TO 3/4" DEPTH
123.075	123.094	US54 WBL	100.0	32	1.25	355.56	FROM 1 3/4" DEPTH TO 3/4" DEPTH
124.100	124.119	US54 WBL	100.0	32	1.25	355.56	FROM 3/4" DEPTH TO 1 3/4" DEPTH
124.119	124.133	US54 WBL	75.0	32	1.375	266.67	FROM 3/4" DEPTH TO 2" DEPTH
123.548		ROUTE AA	7,074.0		1.375	786.00	FROM 3/4" DEPTH TO 2" DEPTH
125.118		OPIE RD.	590.0		1.375	65.56	FROM 3/4" DEPTH TO 2" DEPTH
125.118		CROSSOVER	1,255.0		1.375	139.44	FROM 3/4" DEPTH TO 2" DEPTH
126.040		ATCHISON RD.	2,475.0		1.375	275.00	FROM 3/4" DEPTH TO 2" DEPTH
126.040		CROSSOVER	2,160.0		1.375	240.00	FROM 3/4" DEPTH TO 2" DEPTH
126.645		SHORT RD.	1,746.0		1.375	194.00	FROM 3/4" DEPTH TO 2" DEPTH
126.645		CROSSOVER	2,898.0		1.375	322.00	FROM 3/4" DEPTH TO 2" DEPTH
127.349		FRANK RD.	2,385.0		1.375	265.00	FROM 3/4" DEPTH TO 2" DEPTH
127.349		CROSSOVER	3,285.0		1.375	365.00	FROM 3/4" DEPTH TO 2" DEPTH
128.616		KENT RD.	2,682.0		1.375	298.00	FROM 3/4" DEPTH TO 2" DEPTH
128.616		CROSSOVER	3,555.0		1.375	395.00	FROM 3/4" DEPTH TO 2" DEPTH
129.181		J-TURN	5,175.0		1.375	575.00	FROM 3/4" DEPTH TO 2" DEPTH
129.590		ROUTE FF	11,268.0		1.375	1,252.00	FROM 3/4" DEPTH TO 2" DEPTH
129.590		OFFSET LT EB	3,600.0		1.375	400.00	FROM 3/4" DEPTH TO 2" DEPTH
129.590		OFFSET LT WB	3,600.0		1.375	400.00	FROM 3/4" DEPTH TO 2" DEPTH
130.743		BUS 54 RAMP	5,130.0		1.375	570.00	FROM 3/4" DEPTH TO 2" DEPTH
130.899	130.923	US54 WBL	125.0	40	1.375	555.56	FROM 3/4" DEPTH TO 2" DEPTH
130.961	130.985	US54 WBL	125.0	40	1.375	555.56	FROM 2" DEPTH TO 3/4" DEPTH
131.579	131.603	US54 WBL	125.0	28	1.375	388.89	FROM 3/4" DEPTH TO 2" DEPTH
131.672	131.696	US54 WBL	125.0	28	1.375	388.89	FROM 2" DEPTH TO 3/4" DEPTH
0.274		RAMP 2 AT RT. 87	4,590.0		1.375	510.00	FROM 3/4" DEPTH TO 2" DEPTH
132.044	132.068	US54 WBL	125.0	28	1.375	388.89	FROM 3/4" DEPTH TO 2" DEPTH
0.015		RAMP 4 AT RT. 87	5,805.0		1.375	645.00	FROM 3/4" DEPTH TO 2" DEPTH
132.122	132.146	US54 WBL	125.0	28	1.375	388.89	FROM 2" DEPTH TO 3/4" DEPTH
134.204	134.228	US54 WBL	125.0	40	1.375	555.56	FROM 3/4" DEPTH TO 2" DEPTH
EB							
148.249	148.273	US54 EBL	125.0	41	1.375	569.44	FROM 2" DEPTH TO 3/4" DEPTH
148.294	148.318	US54 EBL	125.0	30	1.375	416.67	FROM 3/4" DEPTH TO 2" DEPTH
					TOTAL	12,883.14	
					USE	12,883	

SUMMARY OF QUANTITIES
SHEET 10 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:39:57 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING - 3" THICK OR LESS

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	DEPTH IN	BIT. PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SY	REMARKS
WBL							
123.094	123.453	RTE 54 WB	1895.52	32	0.75	6,739.63	
123.453	123.500	RTE 54 WB	248.16	40.5	0.75	1,116.72	TAPER (RT) - 10' TO 11'
123.500	123.519	RTE 54 WB	100.32	44	0.75	490.45	TAPER (LT) - 6' TO 12', DECEL LANE (RT) - 11'
123.519	123.540	RTE 54 WB	110.88	38	0.75	468.16	TAPER (LT) - 12' TO 16', DECEL LANE (RT) - 11'
123.540	123.557	RTE 54 WB	89.76	24	0.75	239.36	
123.557	124.100	RTE 54 WB	2867.04	32	0.75	10,193.92	
124.133	124.921	RTE 54 WB	4160.64	40	0.75	18,491.73	
124.921	124.949	RTE 54 WB	147.84	45	0.75	739.20	TAPER (LT) - 6' TO 16'
124.949	124.984	RTE 54 WB	184.80	56	0.75	1,149.87	TAPER (LT) - 16' TO 28'
124.984	125.023	RTE 54 WB	205.92	68	0.75	1,555.84	DECEL LANE (LT) - 28' - TAPER (RT) - 2' TO 16'
125.023	125.118	RTE 54 WB	501.60	16	0.75	891.73	DECEL LANE (LT) - 28' - DECEL LANE (RT) - 16'
125.118	125.133	RTE 54 WB	79.20	24	0.75	211.20	
125.133	125.164	RTE 54 WB	163.68	40	0.75	727.47	
125.164	125.904	RTE 54 WB	3907.20	28	0.75	12,155.73	
125.904	125.918	RTE 54 WB	73.92	43	0.75	353.17	TAPER (RT) - 10' TO 16'
125.918	125.981	RTE 54 WB	332.64	46	0.75	1,700.16	DECEL LANE (RT) - 16'
125.981	126.042	RTE 54 WB	322.08	50	0.75	1,789.33	DECEL LANE (RT) - 16', TAPER LANE (LT) - 6' TO 13'
126.042	126.061	RTE 54 WB	100.32	24	0.75	267.52	
126.061	126.080	RTE 54 WB	100.32	30	0.75	334.40	
126.080	126.574	RTE 54 WB	2608.32	40	0.75	11,592.53	
126.574	126.634	RTE 54 WB	316.80	34	0.75	1,196.80	DECEL/TAPER LT)- 6' TO 14'
126.634	126.655	RTE 54 WB	110.88	24	0.75	295.68	
126.655	127.322	RTE 54 WB	3521.76	40	0.75	15,652.27	
127.322	127.342	RTE 54 WB	105.60	42	0.75	492.80	TAPER (LT) - 6' TO 10'
127.342	127.363	RTE 54 WB	110.88	24	0.75	295.68	
127.363	128.542	RTE 54 WB	6225.12	40	0.75	27,667.20	
128.542	128.582	RTE 54 WB	211.20	39	0.75	915.20	TAPER (LT)- 6' TO 10', TAPER (RT) - 2' TO 11'
128.582	128.608	RTE 54 WB	137.28	45	0.75	686.40	TAPER (LT) - 10', TAPER (RT) - 11'
128.608	128.628	RTE 54 WB	105.60	24	0.75	281.60	
128.628	129.181	RTE 54 WB	2919.84	40	0.75	12,977.07	
129.181	129.202	RTE 54 WB	110.88	24	0.75	295.68	
129.202	129.240	RTE 54 WB	200.64	54.5	0.75	1,214.99	TAPER (LT) - 25' TO 16'
129.240	129.460	RTE 54 WB	1161.60	50	0.75	6,453.33	DECEL/ ACCEL LANE (LT) - 16'
129.460	129.500	RTE 54 WB	211.20	59	0.75	1,384.53	DECEL/ TAPER (LT) - 16' TO 22', DECEL LANE (RT) -16'
129.500	129.536	RTE 54 WB	190.08	24	0.75	506.88	
129.536	129.587	RTE 54 WB	269.28	46	0.75	1,376.32	TAPER (LT) - 8' TO 4', DECEL LANE (RT) - 16'
129.587	129.611	RTE 54 WB	126.72	24	0.75	337.92	
129.611	129.878	RTE 54 WB	1409.76	46	0.75	7,205.44	ACCEL LANE (RT) - 16'
129.878	130.597	RTE 54 WB	3796.32	40	0.75	16,872.53	
130.597	130.619	RTE 54 WB	116.16	44	0.75	567.89	TAPER (RT) - 10' TO 18'
130.619	130.733	RTE 54 WB	601.92	48	0.75	3,210.24	DECEL LANE (RT) - 18'
130.733	130.778	RTE 54 WB	237.60	24	0.75	633.60	
130.778	130.899	RTE 54 WB	638.88	40	0.75	2,839.47	
BRIDGE EXCEPTION - A2750 - LOG MILE 130.923 TO LOG MILE 130.961							
130.985	131.433	RTE 54 WB	2365.44	40	0.75	10,513.07	
131.433	131.579	RTE 54 WB	770.88	38	0.75	3,254.83	
BRIDGE EXCEPTION - A6291 - LOG MILE 131.603 TO LOG MILE 131.672							
131.696	131.700	RTE 54 WB	21.12	38	0.75	89.17	
131.700	131.744	RTE 54 WB	232.32	42	0.75	1,084.16	TAPER AREA (RT) - 14'
131.744	131.823	RTE 54 WB	417.12	42	0.75	1,946.56	DECEL LANE (RT) - 14'
0.055	0.274	RP 54W TO 87	1156.32	36	0.75	4,625.28	RP PAVEMENT
131.823	131.867	RTE 54 WB	232.32	24	0.75	619.52	
131.867	132.044	RTE 54 WB	934.56	38	0.75	3,945.92	
BRIDGE EXCEPTION - A5793 - LOG MILE 132.068 TO LOG MILE 132.122							
132.146	132.285	RTE 54 WB	733.92	38	0.75	3,098.77	
0.015	0.220	RP 87 TO 54W	1082.40	36	0.75	4,329.60	RP PAVEMENT
132.285	132.320	RTE 54 WB	184.80	24	0.75	492.80	
132.320	132.400	RTE 54 WB	422.40	46	0.75	2,158.93	ACCEL LANE (RT) - 18'
132.400	132.470	RTE 54 WB	369.60	42	0.75	1,724.80	TAPER (RT) - 18' TO 10'
132.470	134.066	RTE 54 WB	8426.88	38	0.75	35,580.16	
134.066	134.204	RTE 54 WB	728.64	40	0.75	3,238.40	
BRIDGE EXCEPTION - A2752 - LOG MILE 134.228 TO LOG MILE 134.254							
134.254	135.007	RTE 54 WB	3975.84	38	2	16,786.88	
135.007	135.075	RTE 54 WB	359.04	45	2	1,795.20	TAPER/ DECEL LANE (RT) - 10' TO 24'
135.088		RTE 54 WB		VAR	2	295.00	SEE SS #10 - RAMP GORE AREA (RT)
0.004	0.135	RP 54W TO 52	691.68	20	2	1,537.07	RP PAVEMENT (RT)
135.075	135.105	RTE 54 WB	158.40	24	2	422.40	
135.105	135.386	RTE 54 WB	1483.68	38	2	6,264.43	
0.014	0.167	RP 52 TO 54W	807.84	21	2	1,884.96	RP PAVEMENT (RT)
135.405		RTE 54 WB		VAR	2	547.00	SEE SS #10 - RAMP GORE AREA (RT)
135.386	135.422	RTE 54 WB	190.08	24	2	506.88	
				SUBTOTALS (1)		281,309.43	

SUMMARY OF QUANTITIES
SHEET 11 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:40:14 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING - 3" THICK OR LESS - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	DEPTH IN	BIT. PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SY	REMARKS
135.422	135.505	RTE 54 WB	438.2	46	2	2,239.69	ACCEL LANE (RT) - 18'
135.505	135.546	RTE 54 WB	216.5	42	2	1,010.33	TAPER (RT) - 18' TO 10'
135.546	135.991	RTE 54 WB	2,349.6	30	2	7,832.00	
135.991	136.035	RTE 54 WB	232.3	36	2	929.20	TAPER (LT) - 4' TO 16'
136.050		RTE 54 WB		VAR	2	169.00	SEE SS #11 - CAVE DR. (RT)
136.050		RTE 54 WB		VAR	2	210.00	SEE SS #11 - CROSSOVER (LT)
136.035	136.054	RTE 54 WB	100.32	24	2	267.52	
136.054	136.806	RTE 54 WB	3,970.6	30	2	13,235.33	
136.806	136.866	RTE 54 WB	316.8	35	2	1,232.00	TAPER/ DECEL (LT) - 4' TO 14'
136.871		RTE 54 WB		VAR	2	140.00	SEE SS #12 - CROSSOVER (LT)
136.866	136.880	RTE 54 WB	73.92	24	2	197.12	
136.880	137.352	RTE 54 WB	2,492.2	30	2	8,307.33	
137.352	137.391	RTE 54 WB	205.92	24	2	549.12	
137.391	137.731	RTE 54 WB	1,795.2	26	2	5,186.13	
137.731	137.772	RTE 54 WB	216.5	30	2	721.67	
137.772	137.951	RTE 54 WB	945.1	28	2	2,940.31	
137.951	138.130	RTE 54 WB	945.1	30	2	3,150.33	
138.130	138.291	RTE 54 WB	850.1	26	2	2,455.84	
138.291	138.633	RTE 54 WB	1,805.8	30	2	6,019.33	
138.633	138.794	RTE 54 WB	850.1	26	2	2,455.84	
138.791		RTE 54 WB		VAR	2	182.00	SEE SS #14 - CROSSOVER (LT)
138.794	139.153	RTE 54 WB	1,895.5	30	2	6,318.33	
139.153	139.174	RTE 54 WB	110.9	24	2	295.73	
139.174	139.448	RTE 54 WB	1446.72	26	2.00	4,179.41	
BRIDGE EXCEPTION - A2679 - LOG MILE 139.448 TO LOG MILE 139.486							
139.486	139.555	RTE 54 WB	364.3	28	2	1,133.38	
139.555	139.656	RTE 54 WB	533.3	30	2	1,777.67	
139.656	140.059	RTE 54 WB	2,127.8	28	2	6,619.82	
140.059	140.300	RTE 54 WB	1,272.5	30	2	4,241.67	
140.300	140.439	RTE 54 WB	733.9	26	2	2,120.16	
140.439	140.468	RTE 54 WB	153.1	24	2	408.27	
140.468	140.619	RTE 54 WB	797.3	28	2	2,480.49	
140.619	141.116	RTE 54 WB	2,624.2	30	2	8,747.33	
141.116	141.135	RTE 54 WB	141.0	37	2	579.67	TAPER (LT) - 4' TO 14'
141.135	141.216	RTE 54 WB	427.7	38	2	1,805.84	DECEL LANE (LT) - 14'
141.230		RTE 54 WB		VAR	2	935.00	SEE SS #17 - CROSSOVER (LT)
141.216	141.241	RTE 54 WB	132.0	26	2	381.33	
141.241	141.481	RTE 54 WB	1,267.2	28	2	3,942.40	
BRIDGE EXCEPTION - A16752 - LOG MILE 141.481 TO LOG MILE 141.522							
141.522	141.604	RTE 54 WB	433.0	28	2	1,347.11	
141.560		RTE 54 WB		VAR	2	750.00	SEE SS #18 - OFFSET LEFT FROM EB (LT)
141.604	141.628	RTE 54 WB	126.72	24	2	337.92	
141.628	141.959			30	2		
141.959	142.006	RTE 54 WB	248.2	41	2	1,130.69	TAPER (LT) - 10' TO 16'
142.006	142.759	RTE 54 WB	3,975.8	44	2	19,437.24	DECEL LANE (LT) - 16'
142.854		RTE 54 WB	140.0	VAR	2	220.00	SEE SS #19 - BUS 54 RAMP (LT)
142.759	142.768	RTE 54 WB	47.52	24	2	126.72	
142.768	142.953	RTE 54 WB	976.8	30	2	3,256.00	
BRIDGE EXCEPTION - A8727 - LOG MILE 142.953 TO LOG MILE 143.001							
143.001	143.100	RTE 54 WB	522.7	30	2	1,742.33	
143.094		RTE 54 WB		VAR	2	504.00	SEE SS #20 - BUS 54 RAMP (RT)
143.100	143.147	RTE 54 WB	248.16	24	2	661.76	
143.147	143.306	RTE 54 WB	839.5	44	2	4,104.22	ACCEL LANE (RT) - 16'
143.306	143.386	RTE 54 WB	422.4	41	2	1,924.27	TAPER (RT) - 16' TO 10'
143.386	144.478	RTE 54 WB	5,765.8	30	2	19,219.33	
144.478	144.519		216.5	35	2	841.94	TAPER (LT) - 4' TO 14'
144.519	144.559	RTE 54 WB	211.2	51	2	1,196.80	TAPER (RT) - 10' TO 16'
144.559	144.611	RTE 54 WB	274.6	54	2	1,647.60	DECEL LANE (LT)
144.621		RTE 54 WB		VAR	2	535.00	SEE SS #21 - CROSSOVER (LT)
144.621		RTE 54 WB		VAR	2	795.00	SEE SS #21 - RIVER RD. (RT)
144.611	144.637	RTE 54 WB	137.28	24	2	366.08	
144.637	144.844	RTE 54 WB	1,093.0	30	2	3,643.33	
BRIDGE EXCEPTION - A1479 - LOG MILE 144.844 TO LOG MILE 145.009							
145.009	145.100	RTE 54 WB	480.5	42	2	2,242.33	TAPER SHLDR/DECEL (LT) - 4' TO 14', TAPER SHLDR/DECEL (RT) - 4' TO 16'
145.100	145.140	RTE 54 WB	211.2	54	2	1,267.20	DECEL LANE (LT) - 14', DECEL LANE (RT) - 16'
145.140	145.180	RTE 54 WB	211.2	65	2	1,525.33	OFFSET LEFT/ TAPER (LT) - 14' TO 35', DECEL (RT) - 16
145.246		RTE 54 WB		VAR	2	170.00	SEE SS #22 - CROSSOVER (LT)
145.246		RTE 54 WB		VAR	2	1,243.00	SEE SS #22 - RTE 242 RAMP (RT)
0.024	0.216	RP 54W TO 242	1,014.0	25	2	2,816.67	RP PAVEMENT (RT)
0.216	0.259	RP 54W TO 242	225.0	35	2	875.00	RP PAVEMENT (RT)
0.259	0.306	RP 54W TO 242	248.2	45	2	1,241.00	RP PAVEMENT (RT) - END PROJECT
145.180	145.183	RTE 54 WB	15.84	24	2	42.24	
145.183	145.243	RTE 54 WB	316.8	30	2	1,056.00	
				SUBTOTALS (2)		181,662.70	

SUMMARY OF QUANTITIES
SHEET 12 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:40:35 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
MILLER

JOB NO.
J5P3500

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)

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING - 3" THICK OR LESS - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	DEPTH IN	BIT. PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SY	REMARKS
EBL							
126.638	126.642	RTE 54 EB	21.12	28	2	65.71	
126.638		RTE 54 EB		VAR	2	740.00	SEE SS #22 - WOODRIVER RD. (RT)
126.642	126.659	RTE 54 EB	89.76	24	2	239.36	
126.659	126.832	RTE 54 EB	913.44	30	2	3,044.80	
BRIDGE EXCEPTION - A5368 - LOG MILE 126.832 TO LOG MILE 126.994							
126.994	127.081	RTE 54 EB	459.36	30	2	1,531.20	
127.081	127.122	RTE 54 EB	216.48	45	2	1,082.40	TAPER (LT) - 4' TO 14', TAPER (RT) - 10' TO 14'
127.122	127.212	RTE 54 EB	475.20	52	2	2,745.60	DECEL (LT) - 14', DECEL (RT) - 14'
127.223		RTE 54 EB		VAR	2	610.00	SEE SS #21 - OSAGE RVR BRIDGE RD.
127.212	127.232	RTE 54 EB	105.60	24	2	281.60	
127.232	128.540	RTE 54 EB	6,906.24	30	2	23,020.80	
127.881		RTE 54 EB		VAR	2	250.00	SEE SS #20 - ISLESWORTH AVE.
128.540	128.600	RTE 54 EB	316.80	41	2	1,443.20	TAPER (RT) - 10' TO 16'
128.600	128.700	RTE 54 EB	528.00	44	2	2,581.33	DECEL LANE (RT) - 16'
128.700	128.770	RTE 54 EB	369.60	33	2	1,355.20	RAMP (RT) - 5'
128.770	128.788	RTE 54 EB	95.04	49.5	2	522.72	RAMP (RT) - 21.5'
128.788	128.851	RTE 54 EB	332.64	30	2	1,108.80	
BRIDGE EXCEPTION - A8807 - LOG MILE 128.851 TO LOG MILE 128.898							
128.898	128.988	RTE 54 EB	475.20	30	2	1,584.00	
128.988	129.039	RTE 54 EB	269.28	33	2	987.36	RAMP (RT) - 5'
129.039	129.195	RTE 54 EB	823.68	44	2	4,026.88	ACCEL LANE (RT) - 16'
129.195	129.279	RTE 54 EB	443.52	41	2	2,020.48	TAPER (RT) - 16' TO 10'
129.279	130.049	RTE 54 EB	4,065.60	30	2	13,552.00	
130.049	130.076	RTE 54 EB	142.56	36	2	570.24	TAPER (LT) - 4' TO 16'
130.076	130.157	RTE 54 EB	427.68	42	2	1,995.84	DECEL LANE (LT) - 16'
130.157	130.185	RTE 54 EB	147.84	24	2	394.24	
130.185	130.306	RTE 54 EB	638.88	30	2	2,129.60	
BRIDGE EXCEPTION - A16751 - LOG MILE 130.306 TO LOG MILE 130.347							
130.347	130.478	RTE 54 EB	691.68	30	2	2,305.60	
130.478	130.504	RTE 54 EB	137.28	36	2	549.12	TAPER (LT) - 4' TO 16'
130.504	130.524	RTE 54 EB	105.6	40	2	469.33	DECEL LANE (LT) - 16'
130.524	130.560	RTE 54 EB	190.08	54.5	2	1,151.04	TAPER (RT) - 10' TO 19', DECEL (RT) - 16'
130.560	130.587	RTE 54 EB	142.56	62.5	2	990.00	TAPER/ DECEL LANE (RT) - 19' TO 26', DECEL (RT) - 16'
130.610		RTE 54 EB		VAR	2	430.00	SEE SS #17 - RTE V (RT)
130.587	130.619	RTE 54 EB	168.96	24	2	450.56	
130.619	130.958	RTE 54 EB	1,789.92	28	2	5,568.64	
130.958	131.366	RTE 54 EB	2,154.24	30	2	7,180.80	
131.366	131.389	RTE 54 EB	121.44	24	2	323.84	
131.389	131.862	RTE 54 EB	2,497.44	26	2	7,214.83	
131.862	132.028	RTE 54 EB	876.48	28	2	2,726.83	
132.028	132.330	RTE 54 EB	1,594.56	30	2	5,315.20	
BRIDGE EXCEPTION - A2678 - LOG MILE 132.330 TO LOG MILE 132.368							
132.368	132.489	RTE 54 EB	638.88	30	2	2,129.60	
132.489	132.688	RTE 54 EB	1,050.72	26	2	3,035.41	
132.688	132.877	RTE 54 EB	997.92	30	2	3326.40	
132.877	132.976	RTE 54 EB	522.72	28	2	1626.24	
132.976	133.036	RTE 54 EB	316.80	30	2	1056.00	TAPER SHLDR - (LT) - 4' TO 8'
133.036	133.042	RTE 54 EB	31.68	24	2	84.48	
133.042	133.076	RTE 54 EB	179.52	28	2	558.51	
133.076	133.549	RTE 54 EB	2,497.44	30	2	8324.80	
133.549	133.578	RTE 54 EB	153.12	24	2	408.32	
133.578	133.731	RTE 54 EB	807.84	26	2	2333.76	
133.731	133.746	RTE 54 EB	79.20	30	2	264.00	
133.746	133.927	RTE 54 EB	955.68	28	2	2973.23	
133.927	134.317	RTE 54 EB	2,059.20	30	2	6864.00	
134.317	134.484	RTE 54 EB	881.76	26	2	2547.31	
134.484	134.918	RTE 54 EB	2,291.52	30	2	7,638.40	
134.918	134.953	RTE 54 EB	184.80	34	2	698.13	TAPER (LT) - 4' TO 12'
134.967		RTE 54 EB		VAR.	2	185.00	SEE SS #12 - CROSSOVER (LT)
134.953	134.977	RTE 54 EB	126.72	24	2	337.92	
134.977	135.720	RTE 54 EB	3,923.04	30	2	13,076.80	
135.720	135.772	RTE 54 EB	274.56	47	2	1,433.81	TAPER (LT) - 4' TO 12', TAPER/DECEL (RT) - 10' TO 20'
138.782		RTE 54 EB		VAR.	2	200.00	SEE SS #11 - CROSSOVER (LT)
135.782		RTE 54 EB		VAR	2	185.00	SEE SS #11 - CAVE DR.
135.772	135.802	RTE 54 EB	158.40	24	2	422.40	
135.802	136.270	RTE 54 EB	2,471.04	30	2	8,236.80	
136.270	136.314	RTE 54 EB	232.32	41	2	1,058.35	TAPER (RT) - 10' to 16'
136.314	136.333	RTE 54 EB	100.32	44	2	490.45	DECEL LANE (RT) - 16'
136.360		RTE 54 EB		VAR	2	733.00	SEE SS #10 (RT) - RAMP GORE AREA
0.049	0.220	RP 54E TO 52	902.88	21	2	2,106.72	RP PAVEMENT (RT)
0.220	0.227	RP 54E TO 52		VAR	2	325.00	RP PAVEMENT (RT)
136.333	136.377	RTE 54 EB	232.32	24	2	619.52	
136.377	136.719	RTE 54 EB	1,805.76	30	2	6,019.20	
0.016	0.166	RP 52 TO 54E	792.00	21	2	1,848.00	RP PAVEMENT (RT)
136.716		RTE 54 EB		VAR	2	480.00	SEE SS #10 - RAMP GORE AREA (RT)
136.719	136.749	RTE 54 EB	158.40	24	2	422.40	
136.749	136.843	RTE 54 EB	496.32	46	2	2,536.75	ACCEL LANE (RT) - 18'
136.842	136.880	RTE 54 EB	200.64	42	2	936.32	TAPER (RT) - 18' TO 10'
136.880	137.573	RTE 54 EB	3,659.04	30	2	12,196.80	
BRIDGE EXCEPTION - A2752 - LOG MILE 137.573 TO LOG MILE 137.598							
137.598	139.375	RTE 54 EB	9,382.56	30	2	31,275.20	
139.375	139.413	RTE 54 EB	200.64	42	2	936.32	TAPER (RT) - 10' TO 18'
139.413	139.486	RTE 54 EB	385.44	46	2	1,970.03	DECEL LANE (RT) - 18'
139.510		RTE 54 EB		VAR	2	454.00	SEE SS #8 - RAMP GORE AREA (RT)
0.020	0.251	RP 54E TO 87	1,219.68	30	2	4,065.60	RP PAVEMENT
139.486	139.513	RTE 54 EB	142.56	24	2	380.16	
139.513	139.657	RTE 54 EB	760.32	30	2	2,534.40	
139.657	139.675	RTE 54 EB	95.04	34	2	359.04	SHLDR WIDENING (LT) - 8'
				SUBTOTALS (3)		242,252.73	

SUMMARY OF QUANTITIES
SHEET 13 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:40:52 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
MILLER

JOB NO.
J5P3500

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)

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING - 3" THICK OR LESS - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	DEPTH IN	BIT. PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SY	REMARKS
0.014	0.162	RP 87 TO 54E	781.44	36	2	3,125.76	RP PAVEMENT
139.676		RTE 54 EB		VAR	2	300.00	SEE SS #8 - RAMP GORE AREA (RT)
139.675	139.694	RTE 54 EB	100.32	24	2	267.52	
139.694	139.702	RTE 54 EB	42.24	46	2	215.89	ACCEL LANE (RT) - 18'
BRIDGE EXCEPTION - A5792 - LOG MILE 139.702 TO LOG MILE 139.754							
139.754	139.896	RTE 54 EB	749.76	46	2	3,832.11	ACCEL LANE (RT) - 18'
139.896	140.000	RTE 54 EB	549.12	42	2	2,562.56	TAPER (RT) - 18' TO 10'
140.000	140.136	RTE 54 EB	718.08	30	2	2,393.60	
140.136	140.191	RTE 54 EB	290.40	36	2	1,161.60	SHLDR WIDENING (LT) - 10'
BRIDGE EXCEPTION - A2751 - LOG MILE 140.191 TO LOG MILE 140.226							
140.226	140.256	RTE 54 EB	158.40	33	2	580.80	SHLDR WIDENING TAPER (LT) - 10' TO 4'
140.256	140.815	RTE 54 EB	2,951.52	31	2	10,166.35	SHLDR WIDENING TAPER (LT) - 4' TO 6'
140.815	140.874	RTE 54 EB	311.52	32	2	1,107.63	
BRIDGE EXCEPTION - A2749 - LOG MILE 140.874 TO LOG MILE 140.919							
140.919	140.955	RTE 54 EB	190.08	31	2	654.72	SHLDR WIDENING TAPER (LT) - 6' TO 4'
140.955	141.085	RTE 54 EB	686.40	30	2	2,288.00	
141.085		RTE 54 EB		VAR	2	738.00	SEE SS #7 - RAMP GORE AREA (RT)
141.085	141.118	RTE 54 EB	174.24	24	2	464.64	
141.118	141.207	RTE 54 EB	469.92	46	2	2,401.81	ACCEL LANE (RT) - 18'
141.207	141.249	RTE 54 EB	221.76	42	2	1,034.88	TAPER (RT) - 18' TO 10'
141.249	142.030	RTE 54 EB	4,123.68	26	2	11,912.85	
142.030	142.094	RTE 54 EB	337.92	37	2	1,389.23	TAPER (LT) - 6' TO 16'
142.094	142.126	RTE 54 EB	168.96	40	2	750.93	DECEL LANE (LT) - 16'
142.126	142.218	RTE 54 EB	485.76	47	2	2,536.75	SEE SS #6 - OFFSET LEFT (LT) - 16' TO 30'
142.173	142.214	RTE 54 EB	216.48	30	2	721.60	SHLDR (LT) - 8' TO 4'
142.222	142.240	RTE 54 EB	95.04	24	2	253.44	
142.240	142.312	RTE 54 EB	380.16	28	2	1,182.72	
142.312	142.334	RTE 54 EB	116.16	34	2	438.83	TAPER (LT) - 4' TO 16'
142.334	142.634	RTE 54 EB	1584	26	2	4,576.00	DECEL LANE - J-TURN (LT) - 16' TO 36'
142.514	142.634	RTE 54 EB	633.6	26	2	1,830.40	
142.634	143.139	RTE 54 EB	2,666.40	30	2	8,888.00	
143.139	143.195	RTE 54 EB	295.68	34	2	1,117.01	SHLDR WIDENING (LT) - 8'
143.202		RTE 54 EB		VAR.	2	255.00	SEE SS #5 - CROSSOVER (LT)
143.195	143.214	RTE 54 EB	100.32	24	2	267.52	
143.214	144.417	RTE 54 EB	6,351.84	30	2	21,172.80	
144.417	144.457	RTE 54 EB	180.00	36	2	720.00	TAPER (LT) - 4' TO 16'
144.471		RTE 54 EB		VAR.	2	315.00	SEE SS #4 - CROSSOVER (LT)
144.457	144.476	RTE 54 EB	100.32	24	2	267.52	
144.476	145.114	RTE 54 EB	3,368.64	30	2	11,228.80	
145.114	145.136	RTE 54 EB	116.16	36	2	464.64	TAPER (LT) - 4' TO 16'
145.136	145.156	RTE 54 EB	105.60	53	2	621.87	TAPER (RT) - 10' TO 16'
145.156	145.165	RTE 54 EB	47.52	56	2	295.68	DECEL (LT) - 16', DECEL (RT) - 16'
145.172		RTE 54 EB		VAR.	2	315.00	SEE SS #3 - CROSSOVER (LT)
145.172		RTE 54 EB		VAR.	2	760.00	SEE SS #3 - ROUTE MM (RT)
145.165	145.187	RTE 54 EB	116.16	24	2	309.76	
145.187	145.608	RTE 54 EB	2,222.88	30	2	7,409.60	
145.608	145.679	RTE 54 EB	374.88	35	2	1,457.87	TAPER (LT) - 2' TO 16'
145.679	145.699	RTE 54 EB	105.60	42	2	492.80	DECEL LANE (LT) - 16'
145.699	145.797	RTE 54 EB	517.44	72	2	4,139.52	DECEL LANE (LT) - 16' TO 75'
145.800		RTE 54 EB		VAR.	2	240.00	SEE SS #3 - CROSSOVER (LT)
145.797	145.818	RTE 54 EB	110.88	24	2	295.68	
145.818	146.518	RTE 54 EB	3,696.00	30	2	12,320.00	
146.518	146.563	RTE 54 EB	237.60	34	2	897.60	TAPER (LT) - 4' TO 16'
146.563	146.630	RTE 54 EB	353.76	40	2	1,572.27	DECEL LANE (LT) - 16'
146.630	146.709	RTE 54 EB	417.12	52	2	2,410.03	DECEL LANE (LT) - 16' TO 40'
146.709	146.719	RTE 54 EB	52.80	24	2	140.80	
146.719	146.740	RTE 54 EB	110.88	28	2	344.96	
146.740	148.216	RTE 54 EB	7,793.28	30	2	25,977.60	
148.216	148.249	RTE 54 EB	174.24	41	2	793.76	TAPER/ DECEL LANE (LT) - 4' TO 25'
148.273	148.294	RTE 54 EB	110.88	41	0.75	505.12	TAPER (LT) - 25' TO 4'
148.318	148.761	RTE 54 EB	2,339.04	30	2	7,796.80	
					SUBTOTALS (4)	172,681.63	
					SUBTOTALS (1)	281,309.43	
					SUBTOTALS (2)	181,662.70	
					SUBTOTALS (3)	242,252.73	
					TOTAL	877,906.49	
					USE	877,906	

SUMMARY OF QUANTITIES
SHEET 14 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:41:18 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

SURFACE SEALING TREATMENT

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	AREA SY	REMARKS
WBL - OUTSIDE SHOULDER						
134.254	135.007	RTE 54 WB	3,975.8	8	3,534.04	
135.105	135.386	RTE 54 WB	1,483.7	8	1,318.84	
135.546	136.040	RTE 54 WB	2,608.3	8	2,318.49	
136.055	137.348	RTE 54 WB	6,827.0	8	6,068.44	
137.378	137.755	RTE 54 WB	1,990.6	8	1,769.42	
137.934	139.140	RTE 54 WB	6,367.7	8	5,660.18	
139.172	139.448	RTE 54 WB	1,457.3	8	1,295.38	
BRIDGE EXCEPTION - A2679 - LOG MILE 139.448 TO LOG MILE 139.486						
139.486	139.494	RTE 54 WB	42.2	8	37.51	
139.556	139.640	RTE 54 WB	443.5	8	394.22	
140.042	140.438	RTE 54 WB	2,092.0	8	1,859.56	
140.616	141.215	RTE 54 WB	3,162.7	8	2,811.29	
141.241	141.481	RTE 54 WB	1,267.2	8	1,126.40	
BRIDGE EXCEPTION - A16752 - LOG MILE 141.481 TO LOG MILE 141.522						
141.522	142.953	RTE 54 WB	7,555.7	8	6,716.18	
BRIDGE EXCEPTION - A8727 - LOG MILE 142.953 TO LOG MILE 143.001						
143.001	143.100	RTE 54 WB	523.0	8	464.89	
143.386	144.505	RTE 54 WB	5,908.3	8	5,251.82	
144.641	144.825	RTE 54 WB	973.0	8	864.89	
144.825	144.844	RTE 54 WB	117.0	8	104.00	
BRIDGE EXCEPTION - A1479 - LOG MILE 144.844 TO LOG MILE 145.009						
145.009	145.243	RTE 54 WB	1,235.5	8	1,098.22	
			SUBTOTAL (1)		42,693.77	

FOG SEAL

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH FT	AVG WIDTH FT	AREA SY	REMARKS
EBL - OUTSIDE SHOULDER						
126.668	126.832	RTE 54 EB	865.92	8	769.71	
BRIDGE EXCEPTION - A6358 - LOG MILE 126.832 TO LOG MILE 126.994						
126.994	127.100	RTE 54 EB	559.68	8	497.49	
127.233	127.870	RTE 54 EB	3,363.36	8	2,989.65	
127.902	128.540	RTE 54 EB	3,368.64	8	2,994.35	
128.788	128.851	RTE 54 EB	332.64	8	295.68	
BRIDGE EXCEPTION - A8807 - LOG MILE 128.851 TO LOG MILE 128.898						
128.898	128.988	RTE 54 EB	475.20	8	422.40	
129.279	130.306	RTE 54 EB	5,422.56	8	4,820.05	
BRIDGE EXCEPTION - A16751 - LOG MILE 130.306 TO LOG MILE 130.347						
130.347	130.524	RTE 54 EB	934.56	8	830.72	
130.910	131.329	RTE 54 EB	2,212.32	8	1,966.51	
131.356	131.852	RTE 54 EB	2,618.88	8	2,327.89	
132.016	132.330	RTE 54 EB	1,657.92	8	1,473.71	
BRIDGE EXCEPTION - A2678 - LOG MILE 132.330 TO LOG MILE 132.368						
132.368	132.863	RTE 54 EB	2,613.60	8	2,323.20	
133.057	133.554	RTE 54 EB	2,624.16	8	2,332.59	
133.582	133.745	RTE 54 EB	860.64	8	765.01	
133.925	135.727	RTE 54 EB	9,514.56	8	8,457.39	
135.800	136.270	RTE 54 EB	2,481.60	8	2,205.87	
136.377	136.719	RTE 54 EB	1,805.76	8	1,605.12	
136.880	137.573	RTE 54 EB	3,659.04	8	3,252.48	
BRIDGE EXCEPTION - A2752 - LOG MILE 137.573 TO LOG MILE 137.598						
137.598	139.375	RTE 54 EB	9,382.56	8	8,340.05	
139.513	139.702	RTE 54 EB	997.92	8	887.04	
BRIDGE EXCEPTION - A5792 - LOG MILE 139.702 TO LOG MILE 139.754						
139.754	140.191	RTE 54 EB	2,307.36	8	2,050.99	
BRIDGE EXCEPTION - A2751 - LOG MILE 140.191 TO LOG MILE 140.226						
140.226	140.874	RTE 54 EB	3,421.44	8	3,041.28	
BRIDGE EXCEPTION - A2749 - LOG MILE 140.874 TO LOG MILE 140.919						
140.919	141.077	RTE 54 EB	834.24	8	741.55	
141.241	142.076	RTE 54 EB	4,408.80	8	3,918.93	
142.484	143.180	RTE 54 EB	3,674.88	8	3,266.56	
143.195	144.452	RTE 54 EB	6,636.96	8	5,899.52	
144.468	145.154	RTE 54 EB	3,622.08	8	3,219.63	
145.179	145.792	RTE 54 EB	3,236.64	8	2,877.01	
145.808	146.575	RTE 54 EB	4,049.76	8	3,599.79	
146.720	148.271	RTE 54 EB	8,189.28	8	7,279.36	
148.287	148.761	RTE 54 EB	2,502.72	8	2,224.64	
			SUBTOTAL (2)		87,676.17	
			SUBTOTAL (1)		42,693.77	
			TOTAL		130,369.94	
			USE		130,369.9	

SUMMARY OF QUANTITIES
SHEET 15 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:41:36 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

PAVEMENT MARKINGS - US 54 WB

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS: 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS: 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING: LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
123.094	123.529	RTE 54 WB RT.	2,296.80			2,296.80														EDGELINE
123.094	123.543	RTE 54 WB LT.	2,370.72	2,370.72																EDGELINE
123.094	145.245	RTE 54 WB	116,957.28				29,239.32													CENTERLINE
123.490	123.533	RTE 54 WB RT.	227.04			227.04														RIGHT LANE LINE
123.520	123.546	RTE 54 WB LT.	137.28			137.28														LEFT LANE LINE
123.533	123.551	RTE 54 WB RT.	95.04				23.76													LINE EXTENSION (3' LONG, 9' GAP)
123.546	123.556	RTE 54 WB LT.	52.80				13.20													LINE EXTENSION (3' LONG, 9' GAP)
123.551	123.557	RTE 54 WB RT.	31.68			31.68														EDGELINE
123.553		RTE 54 WB RT.							55.00											ISLAND MARKING
123.553		ROUTE AA	40.00										80.00							CENTERLINE
123.557	123.567	RTE 54 WB RT.	52.80				13.20													LINE EXTENSION (3' LONG, 9' GAP)
123.556	125.118	RTE 54 WB LT.	8,247.36	8,247.36																EDGELINE
123.567	125.113	RTE 54 WB RT.	8,162.88			8,162.88														EDGELINE
124.923	125.044	RTE 54 WB LT.	638.88				159.72													LINE EXTENSION (3' LONG, 9' GAP)
124.963	125.085	RTE 54 WB RT.	644.16				161.04													LINE EXTENSION (3' LONG, 9' GAP)
125.006		RTE 54 WB LT.												1						LEFT ARROW
125.044	125.118	RTE 54 WB LT.	390.72					390.72						1						LEFT LANE LINE, LEFT ARROW
125.044	125.118	RTE 54 WB LT.	390.72			390.72												153		LEFT LANE LINE, CHEVRONS
125.047		RTE 54 WB RT.												1						RIGHT ARROW
125.085	125.118	RTE 54 WB RT.	174.24					174.24						1						RIGHT LANE LINE, RIGHT ARROW
125.118		RTE 54 WB LT.	43.00			43.00														CROSSOVER EDGELINE
125.118		RTE 54 WB LT.																	7	YIELD LINE
125.118		OPIE RD.	184.00																	RADIUSES, OPIE RD.
125.124	126.039	RTE 54 WB LT.	4,831.20			4,831.20														EDGELINE
125.129	126.034	RTE 54 WB RT.	4,778.40	4,778.40																EDGELINE
125.901	126.020	RTE 54 WB RT.	628.32				157.08													LINE EXTENSION (3' LONG, 9' GAP)
126.020	126.039	RTE 54 WB RT.	100.32					100.32												RIGHT LANE LINE
126.039		ATCH. XOVER	160.00																	EDGELINE CROSSOVER
126.046		ATCH. XOVER	86.00																	EDGELINE CROSSOVER
126.046	126.642	RTE 54 WB LT.	3,146.88	3,146.88																EDGELINE
126.050	128.611	RTE 54 WB RT.	13,522.08			13,522.08														EDGELINE
126.623	126.647	RTE 54 WB LT.	126.72			126.72														LEFT LANE LINE
126.647	126.661	RTE 54 WB LT.	73.92				18.48													LINE EXTENSION (3' LONG, 9' GAP)
126.661	129.181	RTE 54 WB LT.	13,305.60	13,305.60																EDGELINE
128.582	128.616	RTE 54 WB RT.	179.52			179.52														RIGHT LANE LINE
128.616	128.631	RTE 54 WB RT.	79.20				19.80													LINE EXTENSION (3' LONG, 9' GAP)
128.631	129.580	RTE 54 WB RT.	5,010.72			5,010.72														EDGELINE
129.171	129.181	RTE 54 WB LT.	170.00			170.00														J-TURN RADIUS, OUTSIDE
129.177	129.181	RTE 54 WB LT.	100.00	100.00																J-TURN RADIUS, INSIDE
129.181	129.240	RTE 54 WB LT.	311.52			311.52														ACCEL. LANE LINE
129.181	129.580	RTE 54 WB LT.	2,106.72	2,106.72																EDGELINE
129.240	129.481	RTE 54 WB LT.	1,272.48				318.12													LINE EXTENSION (3' LONG, 9' GAP)
129.460	129.562	RTE 54 WB RT.	538.56				134.64													LINE EXTENSION (3' LONG, 9' GAP)
129.481	129.539	RTE 54 WB LT.	306.24					306.24												EDGELINE
129.481	129.586	RTE 54 WB LT.	554.40			554.40														ALT. LEFT LANE LINE
129.539	129.586	RTE 54 WB LT.	248.16	248.16																EDGELINE
129.562	129.586	RTE 54 WB RT.	126.72					126.72												RIGHT LANE LINE
129.580		RTE 54 WB LT.																	7	YIELD LINE
129.590		ROUTE FF N.	240.00								395.00		240.00	1						RADIUSES, CENTERLINE AND 1 RIGHT TURN ARROW
129.594	129.640	RTE 54 WB RT.	242.88			242.88														ACCEL. LANE LINE
129.597	136.043	RTE 54 WB LT.	34,034.88	34,034.88																EDGELINE
129.611	130.743	RTE 54 WB RT.	5,976.96			5,976.96														EDGELINE
129.640	129.819	RTE 54 WB RT.	945.12				236.28													LINE EXTENSION (3' LONG, 9' GAP)
130.678	130.709	RTE 54 WB RT.	163.68				40.92													LINE EXTENSION (3' LONG, 9' GAP)
130.709	130.743	RTE 54 WB RT.	179.52					179.52												LANE LINE
130.743	130.780	RTE 54 WB RT.	195.36					195.36												EDGELINE
130.780	131.839	RTE 54 WB RT.	5,591.52			5,591.52														EDGELINE
130.678	130.709	RTE 54 WB RT.	163.68			40.92														LINE EXTENSION (3' LONG, 9' GAP)
130.709	130.743	RTE 54 WB RT.	179.52					179.52												LANE LINE
130.743	130.780	RTE 54 WB RT.	195.36					195.36												GORE LINE
131.777	131.809	RTE 54 WB RT.	168.96				42.24													LINE EXTENSION (3' LONG, 9' GAP)
131.809	131.839	RTE 54 WB RT.	158.40					158.40												LANE LINE
131.839	131.867	RTE 54 WB RT.	147.84					147.84												GORE LINE
131.839	131.875	RTE 54 WB RT.	190.08					190.08												GORE LINE
0.027	0.274	RAMP 2 RT.	1,304.16			1,304.16														EDGELINE
0.055	0.274	RAMP 2 LT.	1,156.32	1,156.32																EDGELINE
		SUBTOTAL (1)	69,495.04	0.00		49,152.00	30,577.80	2,344.32	55.00	0.00	0.00	0.00	320.00	0	0	0	0	153	14	

SUMMARY OF QUANTITIES
SHEET 16 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:41:52 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO

DISTRICT	SHEET NO.
CD	16

COUNTY
MILLER

JOB NO.
J5P3500

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)

PAVEMENT MARKINGS - US 54 WB - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS: 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS: 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING: LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
0.055	0.274	RAMP 2 LT.	1,156.32	1,156.32																EDGELINE
131.875	132.279	RTE 54 WB RT.	2,133.12			2,133.12														EDGELINE
132.279	132.301	RTE 54 WB RT.	116.16					116.16												GORE LINE
132.301	132.329	RTE 54 WB RT.	147.84					147.84												LANE LINE
132.329	132.365	RTE 54 WB RT.	190.08				47.52													LINE EXTENSION (3' LONG, 9' GAP)
0.015	0.220	RAMP 4 RT.	1,082.40			1,082.40														EDGELINE
0.015	0.204	RAMP 4 LT.	997.92	997.92																EDGELINE
0.204	0.220	RAMP 4 LT.	84.48					84.48												GORE LINE
132.301	135.088	RTE 54 WB RT.	14,715.36			14,715.36														EDGELINE
135.006	135.072	RTE 54 WB RT.	348.48				87.12													LINE EXTENSION (3' LONG, 9' GAP)
135.072	135.088	RTE 54 WB RT.	84.48					84.48												LANE LINE
135.088	135.133	RTE 54 WB RT.	237.60					237.60												GORE LINE
0.004	0.135	RAMP 2 RT.	691.68			691.68														EDGELINE
0.004	0.035	RAMP 2 LT.	163.68					163.68												GORE LINE
0.035	0.135	RAMP 2 LT.	528.00	528.00																EDGELINE
0.137		RAMP 2															15		15	STOP BAR AND YIELD BAR
135.133	135.371	RTE 54 WB RT.	1,256.64			1,256.64														EDGELINE
135.371	135.405	RTE 54 WB RT.	179.52					179.52												GORE LINE
135.405	135.438	RTE 54 WB RT.	174.24					174.24												LANE LINE
135.438	135.473	RTE 54 WB RT.	184.80				46.20													LINE EXTENSION (3' LONG, 9' GAP)
0.014	0.167	RAMP 4 RT.	807.84			807.84														EDGELINE
0.014	0.159	RAMP 4 LT.	765.60	765.60																EDGELINE
0.159	0.167	RAMP 4 LT.	42.24					42.24												GORE LINE
135.405	137.917	RTE 54 WB RT.	13,263.36			13,263.36														EDGELINE
136.062	137.352	RTE 54 WB LT.	6,811.20	6,811.20																EDGELINE
137.352	137.374	RTE 54 WB RT.	116.16				29.04													BUBBLE (3' LONG, 9' GAP)
137.352	137.721	RTE 54 WB LT.	1,948.32				487.08													ACCEL. LANE
137.357	138.277	RTE 54 WB LT.	4,857.60	4,857.60																EDGELINE
137.761	137.868	RTE 54 WB RT.	564.96				141.24													DECEL. LANE (3' LONG, 9' GAP)
137.868	137.935	RTE 54 WB RT.	353.76					353.76												LANE LINE
137.935		RTE 54 WB RT.	90.00						90.00											ISLAND MARKING
137.946	139.506	RTE 54 WB RT.	8,236.80			8,236.80														EDGELINE
138.118	138.240	RTE 54 WB LT.	644.16				161.04													DECEL. LANE (3' LONG, 9' GAP)
138.240	138.282	RTE 54 WB LT.	221.76					221.76												DECEL. LANE
138.275		RTE 54 WB LT.	70.00			70.00														J-TURN
138.282	138.787	RTE 54 WB LT.	2,666.40	2,666.40																EDGELINE
138.632	138.737	RTE 54 WB LT.	554.40				138.60													DECEL. LANE (3' LONG, 9' GAP)
138.737	138.787	RTE 54 WB LT.	264.00					264.00												LANE LINE
138.772	138.787	RTE 54 WB LT.	79.20			79.20														OFFSET LEFT
138.787		RTE 54 WB LT.	45.00			45.00														CROSSOVER EDGELINE
138.787		RTE 54 WB LT.																	6	YIELD BAR
138.787	138.792	RTE 54 WB LT.	26.40		6.60															CROSSOVER - (3' LONG, 9' GAP)
138.792	139.153	RTE 54 WB LT.	1,906.08	1,906.08																EDGELINE
139.153	139.174	RTE 54 WB RT.	110.88				27.72													BUBBLE (3' LONG, 9' GAP)
139.153	139.367	RTE 54 WB LT.	1,129.92				282.48													ACCEL. LANE (3' LONG, 9' GAP)
139.157	140.462	RTE 54 WB LT.	6,890.40	6,890.40																EDGELINE
139.523		RTE 54 WB RT.	95.00						95.00											ISLAND MARKING - COPPERHEAD RD.
139.524	139.660	RTE 54 WB RT.	718.08			718.08														EDGELINE
139.645	139.743	RTE 54 WB RT.	517.44				129.36													RIGHT LANE LINE (3' LONG, 9' GAP)
139.743	139.815	RTE 54 WB RT.	380.16					380.16												RIGHT LANE LINE
139.815		RTE 54 WB RT.	65.00						65.00											ISLAND MARKING - BEAR LAKE RD.
139.815	139.966	RTE 54 WB RT.	797.28				199.32													RIGHT LANE LINE (3' LONG, 9' GAP)
139.819	140.016	RTE 54 WB RT.	1,040.16			1,040.16														EDGELINE
139.966	140.030	RTE 54 WB RT.	160.00					160.00												RIGHT LANE LINE
140.030		RTE 54 WB RT.	65.00						65.00											ISLAND MARKING - HOWSER RD.
140.039	140.585	RTE 54 WB RT.	2,882.88			2,882.88														EDGELINE
140.303	140.408	RTE 54 WB LT.	554.40				138.60													DECEL. LANE (3' LONG, 9' GAP)
140.408	140.468	RTE 54 WB LT.	316.80			316.80														LEFT LANE LINE
140.449	140.537	RTE 54 WB RT.	464.64				116.16													RIGHT LANE LINE (3' LONG, 9' GAP)
140.462		RTE 54 WB LT.	70.00			70.00														J-TURN
140.468	141.222	RTE 54 WB LT.	3,981.12	3,981.12																EDGELINE
140.537	140.606	RTE 54 WB RT.	364.32					364.32												RIGHT LANE LINE
140.606		RTE 54 WB RT.	105.00						105.00											ISLAND MARKING - WALNUT GROVE RD.
140.608	141.587	RTE 54 WB RT.	5,169.12			5,169.12														EDGELINE
141.138	141.165	RTE 54 WB LT.	142.56				35.64													LEFT LANE LINE (3' LONG, 9' GAP)
		SUBTOTAL (2)		30,560.64	6.60	52,578.44	2,067.12	2,974.24	420.00	0.00	0.00	0.00	0.00	0	0	0	15	0	21	

SUMMARY OF QUANTITIES
SHEET 17 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:42:09 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
MILLER

JOB NO.
J5P3500

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)

PAVEMENT MARKINGS - US 54 WB - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS: 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS: 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING: LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
141.165	141.224	RTE 54 WB LT.	170.00			170.00														LEFT LANE LINE
141.210	141.224	RTE 54 WB LT.	73.92			73.92														LEFT OFFSET
141.224		RTE 54 WB LT.	35.00			35.00														CROSSOVER
141.224		RTE 54 WB LT.																	9	YIELD BAR
141.224	141.235	RTE 54 WB LT.	58.08				14.52													CROSSOVER
141.235	141.608	RTE 54 WB LT.	1,969.44	1,969.44																EDGELINE
141.526	141.587	RTE 54 WB RT.	322.08				80.52													RIGHT LANE LINE (3' LONG, 9' GAP)
141.587	141.608	RTE 54 WB RT.	110.88			110.88														RIGHT LANE LINE
141.606		RTE 54 WB RT.	145.00								145.00									ISLAND MARKING - LAKELAND RD.
141.606	141.614	RTE 54 WB LT.	42.24				10.56													CROSSOVER
141.611		LAKELAND RD.				977.00							520.00							LAKELAND RD. RADIUSES, CENTERLINE
141.614	141.659	RTE 54 WB RT.	237.60			237.60														ACCEL. LANE
141.614	144.614	RTE 54 WB LT.	15,840.00	15,840.00																EDGELINE
141.659	141.880	RTE 54 WB RT.	1,166.88				291.72													ACCEL. LANE (3' LONG, 9' GAP)
141.659	142.776	RTE 54 WB RT.	5,897.76			5,897.76														EDGELINE
142.671	142.709	RTE 54 WB RT.	200.64				50.16													RIGHT LANE LINE
142.709	142.759	RTE 54 WB RT.	264.00			264.00														RIGHT LANE LINE
142.759	142.776	RTE 54 WB RT.	89.76			89.76														GORE LINE (RAMP 2)
142.759	143.094	RTE 54 WB RT.	1,768.80			1,768.80														EDGELINE
143.056	143.094	RTE 54 WB RT.	200.64			200.64														GORE LINE (RAMP 4)
143.056	144.602	RTE 54 WB RT.	8,162.88			8,162.88														EDGELINE
143.094	143.177	RTE 54 WB RT.	438.24			438.24														RIGHT LANE LINE
143.177	143.266	RTE 54 WB RT.	469.92				117.48													RIGHT LANE LINE (3' LONG, 9' GAP)
144.530	144.618	RTE 54 WB LT.	464.64			464.64														LEFT LANE LINE
144.544	144.614	RTE 54 WB RT.	369.60			369.60														RIGHT LANE LINE
144.618		RIVER RD.	115.00			115.00														RIVER RD. RADIUS'S
144.618	144.629	RTE 54 WB LT.	58.08				14.52													CROSSOVER
144.629	145.183	RTE 54 WB LT.	2,925.12	2,925.12																EDGELINE
144.637	145.183	RTE 54 WB RT.	2,882.88			2,882.88														EDGELINE
145.046	145.124	RTE 54 WB LT.	411.84				102.96													LEFT LANE LINE (3' LONG, 9' GAP)
145.046	145.171	RTE 54 WB RT.	660.00				165.00													RIGHT LANE LINE (3' LONG, 9' GAP)
145.088		RTE 54 WB LT.												1						1 LEFT ARROW
145.124		RTE 54 WB LT.												1						1 LEFT ARROW
145.124	145.183	RTE 54 WB LT.	311.52					311.52												LEFT LANE LINE
145.124	145.188	RTE 54 WB LT.	337.92					337.92												LEFT LANE LINE
145.171	145.245	RTE 54 WB RT.	390.72			390.72														EDGELINE
145.188	145.245	RTE 54 WB LT.	300.96	300.96																EDGELINE
0.003	0.336	RP 54W TO 242 RT.	1,758.24			1,758.24														EDGELINE
0.003	0.026	RP 54W TO 242 LT.	121.44			121.44														EDGELINE
0.026	0.336	RP 54W TO 242 LT.	1,636.80	1,636.80																EDGELINE
0.301	0.336	RP 54W TO 242	184.80			369.60														LANE LINES
0.301		RP 54W TO 242												2	1					1 LEFT, 1 RIGHT, 1 STRAIGHT ARROW
0.327		RP 54W TO 242												2	1					1 LEFT, 1 RIGHT, 1 STRAIGHT ARROW
			SUBTOTAL (3)	22,672.32	0.00	24,898.60	847.44	649.44	0.00	0.00	145.00	0.00	520.00	6	2	0	0	0	9	

SUMMARY OF QUANTITIES

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 12:42:26 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
MILLER

JOB NO.
J5P3500

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)

PAVEMENT MARKINGS - US 54 EB

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
126.638	127.212	RTE 54 EB LT.	3,030.72	3,030.72																EDGELINE
126.638	148.761	RTE 54 EB	116,809.44				29,202.36													CENTERLINE
126.638	126.640	RTE 54 EB RT.	10.56																	RIGHT LANE LINE
126.638		WOOD RIVER RD.				32.00			58.00											EDGELINE AND ISLAND MARKING
126.665	127.208	RTE 54 EB RT.	2,867.04			2,867.04														EDGELINE
127.116	127.218	RTE 54 EB LT.	538.56			538.56														LEFT LANE LINE
127.146	127.218	RTE 54 EB RT.	380.16			380.16														RIGHT LANE LINE
127.218	127.223	RTE 54 EB RT.	26.40				6.60													CROSSOVER (3' LONG, 9' GAP)
127.218	127.232	RTE 54 EB LT.	73.92				18.48													CROSSOVER (3' LONG, 9' GAP)
127.233		OSAGE RIVER BRIDGE RD.				188.00			40.00											OSAGE RIVER BRIDGE RD. - EDGELINES AND ISLAND MARKING
127.223	127.228	RTE 54 EB RT.	26.40			26.40														EDGELINE
127.228	127.241	RTE 54 EB RT.	68.64				17.16													RIGHT LANE LINE (3' LONG, 9' GAP)
127.232	130.230	RTE 54 EB LT.	15,829.44	15,829.44																EDGELINE
127.241	128.784	RTE 54 EB RT.	8,147.04			8,147.04														EDGELINE (INCLUDES PARTIAL RAMP)
128.596	128.662	RTE 54 EB RT.	348.48				87.12													RIGHT LANE LINE (3' LONG, 9' GAP)
128.662	128.784	RTE 54 EB RT.	644.16					644.16												GORE
128.719	128.784	RTE 54 EB RT.	343.20					343.20												GORE ON RAMP
128.784	129.005	RTE 54 EB RT.	1,166.88			1,166.88														EDGELINE
129.005	129.022	RTE 54 EB RT.	89.76					89.76												GORE ON RAMP
129.005	129.102	RTE 54 EB RT.	512.16					512.16												GORE AND LANE LINE
129.005	130.600	RTE 54 EB RT.	8,421.60			8,421.60														EDGELINE
129.102	129.200	RTE 54 EB RT.	517.44				129.36													ACCEL. LANE (3' LONG, 9' GAP)
130.091	130.160	RTE 54 EB LT.	364.32				91.08													DECEL. LANE (3' LONG, 9' GAP)
130.160	130.185	RTE 54 EB LT.	132.00					132.00												GORE AND LANE LINE
130.173	130.185	RTE 54 EB LT.	63.36					63.36												GORE IN OFFSET LEFT
130.185	130.230	RTE 54 EB LT.	237.60			237.60														EDGELINE IN OFFSET LEFT
130.185	130.600	RTE 54 EB LT.	2,191.20	2,191.20																EDGELINE
130.504	130.528	RTE 54 EB LT.	126.72				31.68													LEFT LANE LINE (3' LONG, 9' GAP)
130.528	130.600	RTE 54 EB LT.	380.16			380.16														GORE AND LANE LINE
130.551	130.562	RTE 54 EB RT.	58.08				14.52													RIGHT LANE LINE (3' LONG, 9' GAP)
130.562	130.600	RTE 54 EB RT.	200.64					430.28												GORE AT RIGHT TURN LANE
130.590	130.600	RTE 54 EB LT.	90.80			181.60														EDGELINE ON 54 AND OFFSET LEFT AND CROSSOVER
130.600	130.609	RTE. 54 LT. & RT.	95.04				47.52													CROSSOVER (3' LONG, 9' GAP)
130.609	130.640	RTE 54 EB RT.	163.68					163.68												GORE AT ACCEL. LANE
130.610		ROUTE V				63.00							88.00				15			CENTERLINE, LANELINE AND STOP BAR
130.640	130.885	RTE 54 EB RT.	1,293.60				323.40													ACCEL. LANE (3' LONG, 9' GAP)
130.609	132.000	RTE 54 EB RT.	7,344.48			7,344.48														EDGELINE
130.609	131.366	RTE 54 EB LT.	3,996.96	3,996.96																EDGELINE
131.366	131.389	RTE 54 EB RT.	121.44				30.36													BUBBLE (3' LONG, 9' GAP)
131.366	131.741	RTE 54 EB LT.	1,980.00				495.00													ACCEL. LANE (3' LONG, 9' GAP)
131.371	132.157	RTE 54 EB LT.	4,150.08	4,150.08																EDGELINE
131.862	131.949	RTE 54 EB RT.	459.36				114.84													RIGHT LANE LINE (3' LONG, 9' GAP)
131.949	132.016	RTE 54 EB RT.	353.76			353.76														RIGHT LANE LINE
132.016		RTE 54 EB RT.	85.00						85.00											ISLAND MARKING - ALLEN RD.
132.028	133.031	RTE 54 EB RT.	5,295.84			5,295.84														EDGELINE
132.489	132.593	RTE 54 EB LT.	549.12				137.28													DECEL. LANE (3' LONG, 9' GAP)
132.593	132.688	RTE 54 EB LT.	501.60			501.60														DECEL. LANE LINE
132.688	133.037	RTE 54 EB LT.	1,842.72	1,842.72																EDGELINE
132.872	132.981	RTE 54 EB RT.	575.52				143.88													RIGHT LANE LINE (3' LONG, 9' GAP)
132.981	133.031	RTE 54 EB RT.	264.00																	RIGHT LANE LINE
133.037	133.041	RTE 54 EB LT.	21.12		5.28															CROSSOVER (3' LONG, 9' GAP)
133.041		TOLWOOD RD.															30			STOP BAR
133.041	133.549	RTE 54 EB LT.	2,682.24	2,682.24																EDGELINE
133.065	133.900	RTE 54 EB RT.	4,408.80			4,408.80														EDGELINE
133.549	133.572	RTE 54 EB RT.	121.44				30.36													BUBBLE (3' LONG, 9' GAP)
133.549	133.731	RTE 54 EB LT.	960.96				240.24													ACCEL. LANE (3' LONG, 9' GAP)
133.553	134.357	RTE 54 EB LT.	4,245.12	4,245.12																EDGELINE
133.746	133.851	RTE 54 EB RT.	554.40				138.60													RIGHT LANE LINE (3' LONG, 9' GAP)
133.851	133.915	RTE 54 EB RT.	337.92					337.92												RIGHT LANE LINE
133.915		RTE 54 EB RT.	75.00						75.00											ISLAND MARKING - MIDWAY RD.
133.927	135.771	RTE 54 EB RT.	9,736.32			9,736.32														EDGELINE
134.319	134.424	RTE 54 EB LT.	554.40				138.60													DECEL. LANE (3' LONG, 9' GAP)
134.424	134.484	RTE 54 EB LT.	316.80			316.80														DECEL. LANE LINE
134.484	135.782	RTE 54 EB LT.	6,853.44	6,853.44																EDGELINE
		SUBTOTAL (4)		44,821.92	5.28	50,587.64	31,438.44	2,716.52	258.00	0.00	0.00	0.00	88.00	0	0	0	45	0	0	

SUMMARY OF QUANTITIES
SHEET 19 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:42:46 PM
RYAN.JOSEPH.LIBBERT-CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

PAVEMENT MARKINGS - US 54 EB - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS: 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS: 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING: LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
135.771	135.782	RTE 54 EB RT.	58.08			58.08														EDGELINE
135.782	135.787	RTE 54 EB RT.	26.40				6.60													CROSSOVER (3' LONG, 9' GAP)
135.786	135.792	RTE 54 EB RT.	31.68			31.68														EDGELINE
135.792	135.802	RTE 54 EB RT.	52.80				13.20													CROSSOVER (3' LONG, 9' GAP)
135.792	142.212	RTE 54 EB LT.	33,897.60	33,897.60																EDGELINE
135.792	136.360	RTE 54 EB RT.	2,999.04			2,999.04														EDGELINE
136.279	136.355	RTE 54 EB RT.	401.28				100.32													DECEL. LANE (3' LONG, 9' GAP)
136.355	136.360	RTE 54 EB RT.	26.40					26.40												GORE ON RAMP
0.049	0.227	RAMP 3 LT. & RT.	939.84	939.84		599.84														EDGELINES (RT. ENDS AT LM 0.161)
136.355	136.400	RTE 54 EB RT.	237.60					237.60												GORE
136.400	136.702	RTE 54 EB RT.	1,594.56			1,594.56														EDGELINE
0.016	0.166	RAMP 1 LT. & RT.	792.00	792.00		792.00														EDGELINES
136.702	136.766	RTE 54 EB RT.	337.92					337.92												GORE
136.716	136.733	RTE 54 EB RT.	89.76					89.76												GORE ON RAMP
136.716	139.510	RTE 54 EB RT.	14,752.32			14,752.32														EDGELINE
136.766	136.808	RTE 54 EB RT.	221.76				55.44													ACCEL. LANE (3' LONG, 9' GAP)
139.370	139.478	RTE 54 EB RT.	570.24				142.56													DECEL. LANE (3' LONG, 9' GAP)
139.478	139.520	RTE 54 EB RT.	221.76					221.76												GORE
139.488	139.510	RTE 54 EB RT.	116.16					116.16												GORE ON RAMP
0.020	0.251	RAMP 3 LT. & RT.	1,219.68	1,219.68		1,219.68														EDGELINES
139.520	139.668	RTE 54 EB RT.	781.44			781.44														EDGELINE
139.668	139.768	RTE 54 EB RT.	528.00					528.00												GORE AND ACCEL. LANE LINE
0.014	0.162	RAMP 1 LT. & RT.	781.44	781.44		781.44														EDGELINES
139.676	139.690	RTE 54 EB RT.	73.92					73.92												GORE ON RAMP
139.676	141.085	RTE 54 EB RT.	7,439.52			7,439.52														EDGELINE
139.768	139.896	RTE 54 EB RT.	675.84				168.96													ACCEL. LANE (3' LONG, 9' GAP)
141.085	141.131	RTE 54 EB RT.	242.88					242.88												GORE AND ACCEL. LANE LINE
141.131	141.168	RTE 54 EB RT.	195.36				48.84													ACCEL. LANE (3' LONG, 9' GAP)
5.784	5.803	BU 54 E LT.	100.32	100.32																EDGELINE
5.784	5.835	BU 54 E RT.	269.28			269.28														EDGELINE
5.805	5.835	BU 54 E LT.	158.40					158.40												GORE ON RAMP
141.119	142.211	RTE 54 EB RT.	5,765.76			5,765.76														EDGELINE
142.037	142.126	RTE 54 EB LT.	469.92				117.48													DECEL. LANE (3' LONG, 9' GAP)
142.081	142.199	RTE 54 EB RT.	623.04				623.04													RIGHT LANE LINE (3' LONG, 9' GAP)
142.126	142.218	RTE 54 EB LT.	485.76			485.76														LEFT OFFSET EDGELINE
142.126	142.222	RTE 54 EB LT.	506.88	506.88																EDGELINE
142.199	142.218	RTE 54 EB RT.	100.32			100.32														RIGHT LANE LINE
142.212		RTE 54 EB LT.																	6	YIELD BAR
142.222	142.231	RTE 54 EB LT.	47.52				11.88													CROSSOVER (3' LONG, 9' GAP)
142.228	142.270	RTE 54 EB RT.	221.76			221.76														ACCEL. LANE LINE
142.231	142.640	RTE 54 EB LT.	2,159.52	2,159.52																EDGELINE
142.223		DOYLE RD.									335.00		365.00							CENTERLINE AND EDGELINES
142.239	145.156	RTE 54 EB RT.	15,401.76			15,401.76														EDGELINE
142.270	142.451	RTE 54 EB RT.	955.68				238.92													ACCEL. LANE (3' LONG, 9' GAP)
142.312	142.549	RTE 54 EB LT.	1,251.36				312.84													DECEL. LANE (3' LONG, 9' GAP)
142.549	142.573	RTE 54 EB LT.	126.72			126.72														DECEL. LANE LINE
142.573	142.630	RTE 54 EB LT.	300.96			300.96														EDGELINE
142.573	142.634	RTE 54 EB LT.	322.08			322.08														I-TURN EDGELINE
142.630	145.172	RTE 54 EB LT.	13,421.76	13,421.76																EDGELINE
145.149	145.176	RTE 54 EB LT.	142.56			142.56														EDGELINE
145.167	145.173	RTE 54 EB RT.	31.68			31.68														EDGELINE
145.172		ROUTE MM				275.00			110.00				180.00							CENTERLINE, ISLAND MARKING AND EDGELINES
145.176	145.187	RTE 54 EB LT.	58.08				14.52													CROSSOVER (3' LONG, 9' GAP)
145.182	145.797	RTE 54 EB LT.	3,247.20	3,247.20																EDGELINE
145.186	146.706	RTE 54 EB RT.	8,025.60			8,025.60														EDGELINE
145.608	145.679	RTE 54 EB LT.	374.88				93.72													DECEL. LANE (3' LONG, 9' GAP)
145.679	145.797	RTE 54 EB LT.	623.04			683.04		623.04												EDGLEINES
145.797		RTE 54 EB LT.																	6	YEILD BAR
145.806	146.709	RTE 54 EB LT.	4,767.84	4,767.84																EDGELINE
146.518	146.630	RTE 54 EB LT.	591.36				147.84													DECEL. LANE (3' LONG, 9' GAP)
146.563	146.690	RTE 54 EB RT.	670.56				670.56													RIGHT LANE LINE (3' LONG, 9' GAP)
146.630	146.709	RTE 54 EB LT.	417.12			460.12		417.12												EDGLEINES
		SUBTOTAL (5)	61,834.08	0.00		63,662.00	2,766.72	3,072.96	110.00	0.00	335.00	0.00	545.00	0	0	0	0	0	12	

SUMMARY OF QUANTITIES
SHEET 20 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:43:21 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
MILLER

JOB NO.
J5P3500

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)

PAVEMENT MARKINGS - US 54 EB - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
146.563	146.690	RTE 54 EB RT.	670.56				670.56													RIGHT LANE LINE (3' LONG, 9' GAP)
146.630	146.709	RTE 54 EB LT.	417.12			460.12		417.12												EDGLEINES
146.690	146.709	RTE 54 EB RT.	100.32					100.32												EDGELINE
146.709		RTE 54 EB LT.																27	7	YEILD BAR, 1 CHEVRON
146.713		HUNTER RD.				200.00														EDGELINES
146.717	148.281	RTE 54 EB LT.	8,257.92	8,257.92																EDGELINE
146.719	148.761	RTE 54 EB RT.	10,781.76			10,781.76														EDGELINE
148.262	148.283	RTE 54 EB LT.	110.88			110.88														LEFT TURN EDGELINE
148.283	148.294	RTE 54 EB RT.	58.08				14.52													CROSSOVER (3' LONG, 9' GAP)
148.290	148.761	RTE 54 EB LT.	2,486.88	2,486.88																EDGELINE
US 54 AND ROUTE W INTERCHANGE																				
0.007	0.053	WILLMORE S	242.88								242.88									EDGELINE
0.007	0.029	WILLMORE S	116.16								116.16									EDGELINE
0.007	0.015	WILLMORE S	42.24										168.96							TAPER
0.015	0.027	WILLMORE S	63.36										126.72							EDGELINE ALONG ISLAND
0.027		WILLMORE S									45.00	15.00							9	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
0.152	0.051	RAMP 1 / WILLMORE S	510.00	510.00																EDGELINE
0.152	0.029	RAMP 1 / WILLMORE S	570.00			570.00														EDGELINE
0.056		WILLMORE S										17.50							12	YIELD BAR AND ROUNDABOUT EDGELINE (2' LONG, 2' GAP)
0.045	0.056	RAMP 3 / WILLMORE S	435.00	435.00																EDGELINE
0.045	0.053	RAMP 3 / WILLMORE S	430.00			430.00														EDGELINE
0.051	0.120	WILLMORE S / BAGNELL DAM S	945.00								945.00									EDGELINE
0.053		WILLMORE S	355.00										355.00							ROUNDABOUT EDGELINE
0.059	0.125	WILLMORE S	348.48								348.48									EDGELINE
0.061	0.078	WILLMORE S	89.76										179.52							EDGELINE ALONG ISLAND
0.061		WILLMORE S									75.00	15.00							9	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
0.078	0.125	WILLMORE S	248.16										496.32							CENTERLINE
0.084	0.142	RAMP 4 / WILLMORE S	700.00			700.00														EDGELINE
0.084	0.125	RAMP 4 / WILLMORE S	660.00	660.00																EDGELINE
0.099	0.125	WILLMORE S	137.28								137.28									LANE LINE
0.099		WILLMORE S												1						LEFT ARROW
0.114		WILLMORE S												1						LEFT ARROW
0.129	0.205	WILLMORE S	401.28									200.64	822.56							TWTL
0.129		WILLMORE S							35.00											ISLAND MARKING
0.142	0.215	WILLMORE S	385.44								385.44									EDGELINE
0.170		WILLMORE S												2						2 - LEFT ARROWS
0.188	0.224	WILLMORE S	190.08								380.16									EDGELINE ALONG ISLAND
0.188		WILLMORE S												1		1				RIGHT ARROW, STRT/LEFT FISH HOOK
0.205	0.226	WILLMORE S	110.88										221.76							EDGELINE ALONG ISLAND
0.209		WILLMORE S												1						RIGHT ARROW
0.215	0.265	WILLMORE S / BAGNELL DAM S	480.00								480.00									EDGELINE
0.226		WILLMORE S								40.00	45.00								15	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BARS AND LANE LINE
0.255		WILLMORE S								27.50	45.00								19	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BARS AND LANE LINE
0.255	0.363	WILLMORE S	435.00								435.00									EDGELINE
0.266		WILLMORE S												1	1					1 - STRT ARROW, 1 - LEFT ARROW
0.020	0.167	RAMP 2	776.16	776.16																EDGELINE
0.020	23.608	RAMP 2 / RTE W	1,032.00			1,032.00														EDGELINE
0.138	0.167	RAMP 2	140.00								140.00									LEFT LANE EDGELINE ALONG ISLAND
0.138	0.150	RAMP 2	53.00								53.00									RIGHT LANE EDGELINE
0.150	0.167	RAMP 2	90.00										90.00							RIGHT LANE EDGELINE ALONG ISLAND
0.167		RAMP 2								13.00									11	YIELD BAR AND ROUNDABOUT EDGELINE (2' LONG, 2' GAP)
0.025		US 54 TO W								46.00	16.00								17	ROUNDABOUT EDGELINE, YIELD BAR AND LANE LINE
23.608	0.183	RTE W / US 54 TO BU 54	320.00								320.00									EDGELINE
23.608	23.634	ROUTE W	137.28										274.56							CENTERLINE
23.634	23.645	ROUTE W	58.08										232.32							TAPER
23.645	23.666	ROUTE W	110.88										221.76							EDGELINE ALONG ISLAND
23.666		ROUTE W								20.00	30.00								11	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
0.183	0.255	US 54 TO BU 54 / WILLMORE	580.00								580.00									EDGELINE
5.298		BAGNELL DAM N								19.00	32.00								10	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
5.299		BAGNELL DAM N	270.00										270.00							ROUNDABOUT EDGELINE
0.167	0.120	RAMP 2 / BAGNELL DAM S	590.00								590.00									EDGELINE
0.199	0.125	US 54 TO BU 54 /	475.00										950.00							EDGELINE ALONG ISLAND
0.081	0.099	BAGNELL DAM S	95.04										95.04							TAPER
0.108		BAGNELLL DAM S														2				STRT/RIGHT FISH HOOK, LEFT FISH HOOK
		SUBTOTAL (6)	13,125.96	0.00	14,284.76	685.08	517.44	35.00	165.50	5,441.40	248.14	4,504.52	7	1	3	0	27	120		

SUMMARY OF QUANTITIES
SHEET 21 OF 23

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 12:43:35 PM
RYAN.JOSEPH.LIBBERT-CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)

PAVEMENT MARKINGS - US 54 AND ROUTE W INTERCHANGE - CONTINUED

LOG MILE FROM	LOG MILE TO	LOCATION	LENGTH (FT)	HIGH BUILD WATERBORNE PAV. MARK. PAINT, TYPE L BEADS 6" SOLID YELLOW (FT)	6" INTER YELLOW (FT)	6" SOLID WHITE (FT)	6" INTER WHITE (FT)	12" SOLID WHITE (FT)	8" SOLID WHITE (FT)	8" INTER WHITE (FT)	WATERBORNE PAV. MARK. PAINT, TYPE P BEADS 4" SOLID WHITE (FT)	4" INTER WHITE (FT)	4" SOLID YELLOW (FT)	PREFORMED THERMOPLASTIC INTERSECTION MARKING LEFT/ RIGHT ARROW (EACH.)	STRT ARROW (EACH)	COMBO STRT/LT/RT FISH HOOK ARROW (EACH)	12" WHITE (FT)	24" WHITE (FT)	YEILD LINE TRIANGLES (EACH)	REMARKS
0.108	0.255	BAGNELL DAM S / WILLMORE S	100.00								100.00									LANE LINE
0.144		BAGNELL DAM S									25.00	22.50							14	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
0.144		BAGNELL DAM S	350.00										350.00							ROUNDABOUT EDGELINE
0.144	0.363	BAGNELL DAM S / WILLMORE S	400.00										800.00							EDGELINE ALONG ISLAND, TAPER AND CENTERLINE
0.148	0.363	BAGNELL DAM S / WILLMORE S	450.00								450.00									EDGELINE
0.127	0.266	BAGNELL DAM S / WILLMORE S	50.00										50.00							EDGELINE AT ROUNDABOUT
0.127	0.150	BAGNELL DAM S	75.00									75.00								LANE LINE
0.148	0.265	BAGNELL DAM S	617.76								617.76									EDGELINE
0.150		BAGNELL DAM S								10.00	60.00								10	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
0.150	0.175	BAGNELL DAM S	132.00										264.00							EDGELINE ALONG ISLAND
0.175	0.202	BAGNELL DAM S	142.56										570.24							TAPER
0.202	0.265	BAGNELL DAM S	332.64										665.28							CENTERLINE
0.166		BAGNELL DAM S									18.00	22.50							8	ROUNDABOUT EDGELINE (2' LONG, 2' GAP), YIELD BAR AND LANE LINE
0.184	0.189	BAGNELL DAM S	240.00								240.00									EDGELINE ALONG ISLAND
0.189		BAGNELL DAM S												1		1				RIGHT ARROW, STRT/LEFT FISH HOOK
RAMP WIDENING AT US 54 AND ROUTE 52 INTERCHANGE																				
1+00.00	2+89.30	RAMP 54E TO 52	189.30			240.00														LANE LINES
0+02.70	4+71.60	RAMP 54E TO 52	450.00			450.00														EDGELINE
1+35.00		RAMP 54E TO 52												2						1 LEFT ARROW, 1 RIGHT ARROW
2+35.00		RAMP 54E TO 52												2						1 LEFT ARROW, 1 RIGHT ARROW
3+10.00		RAMP 54E TO 52							120.00								18		12	STOP BAR, YIELD BAR AND ISLAND MARKING
		SUBTOTAL (7)		0.00	0.00	690.00	0.00	0.00	120.00	10.00	1,510.76	120.00	2,699.52	5	0	1	18	0	44	
		SUBTOTAL (1)		69,495.04	0.00	49,152.00	30,577.80	2,344.32	55.00	0.00	0.00	0.00	320.00	0	0	0	0	153	14	
		SUBTOTAL (2)		30,560.64	6.60	52,578.44	2,067.12	2,974.24	420.00	0.00	0.00	0.00	0.00	0	0	0	15	0	21	
		SUBTOTAL (3)		22,672.32	0.00	24,898.60	847.44	649.44	0.00	0.00	145.00	0.00	520.00	6	2	0	0	0	9	
		SUBTOTAL (4)		44,821.92	5.28	50,587.64	31,438.44	2,716.52	258.00	0.00	0.00	0.00	88.00	0	0	0	45	0	0	
		SUBTOTAL (5)		61,834.08	0.00	63,662.00	2,766.72	3,072.96	110.00	0.00	335.00	0.00	545.00	0	0	0	0	0	12	
		SUBTOTAL (6)		13,125.96	0.00	14,284.76	685.08	517.44	35.00	165.50	5,441.40	248.14	4,504.52	7	1	3	0	27	120	
		TOTAL		242,509.96	11.88	255,853.44	68,382.60	12,274.92	998.00	175.50	7,432.16	368.14	8,677.04	18	3	4	78	180	220	
		GRAND TOTAL		242,522		324,236		12,275	1,174		7,800		8,677	18	3	4	78	180	220	

TEMPORARY PAVEMENT MARKING PAINT

TOTAL = 1 LUMP SUM

7 FT. CHANNEL POST DELINEATOR

STATION FROM	STATION TO	LOCATION	DELINEATOR WHITE/RED (EACH)	REMARKS
2+62.63		RAMP RT.	1	
		TOTAL	1	
		USE	1	

OPTIONAL PAVEMENT - 11" HMA VS 9.5" PCCP - RAMP RIGHT TURN LANE

STATION FROM	STATION TO	LOCATION	LENGTH (FT)	AVERAGE WIDTH (FT)	(SY)	WIDENING OPT. PVMT (SY)	6" TYPE 5 AGG. BASE (SY)	TACK (GAL) *	REMARKS
0+02.70	6+00.00	RAMP RT.	597.3	12.25	812.99	812.99	812.99	40.65	WIDTH VARIES FROM 2' TO 22.5' TO 2'
					TOTAL	812.99	812.99	40.65	
					USE	813.0	813	41	

* ESTIMATED AT: TACK - 0.05 GAL/SY (NEW SURFACE) - QUANTITY FOR INFORMATIONAL PURPOSES ONLY - NO DIRECT PAY

GRADING -RAMP RIGHT TURN LANE

STATION FROM	STATION TO	LOCATION	CLASS A EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	REMARKS
0+02.70	6+00.00	RAMP RT.	323	18	
		TOTAL	323	18	
		USE	323	18	

SUMMARY OF QUANTITIES

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
09/11/2024 6:09:23 AM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 9/10/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	3

COUNTY MILLER

JOB NO. J5P3500

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)

EFFECTIVE: 07-01-2024

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00	2	32			40	YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	2	32			6A	MERGE (LEFT)
WO4-1aR	48X48	16.00	2	32			6A	MERGE (RIGHT)
WO5-1	48X48	16.00	2	32			43	ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00	6	96			34	NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00	4	20			44A	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
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	46	736			36	UNEVEN LANES
WO8-12	48X48	16.00	23	368			35	NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25	2	12.5			44	ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00					2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	5	80			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	3	48			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	7	112			21	SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	2	24			49	GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	4	40			1	ROAD WORK NEXT XX MILES (23)
GO20-2	48X24	8.00	4	32			26	END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	4	24			54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93	2	13.86			13	YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	13	156			4,25	SPEED LIMIT XX (3-45,2-55,4-60,4-70)
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64				POINT OF PRESENCE
CONST-8	48X36	12.00	4	48			33	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL 2012
616-10.10 RELOCATED SIGNS	TOTAL 0

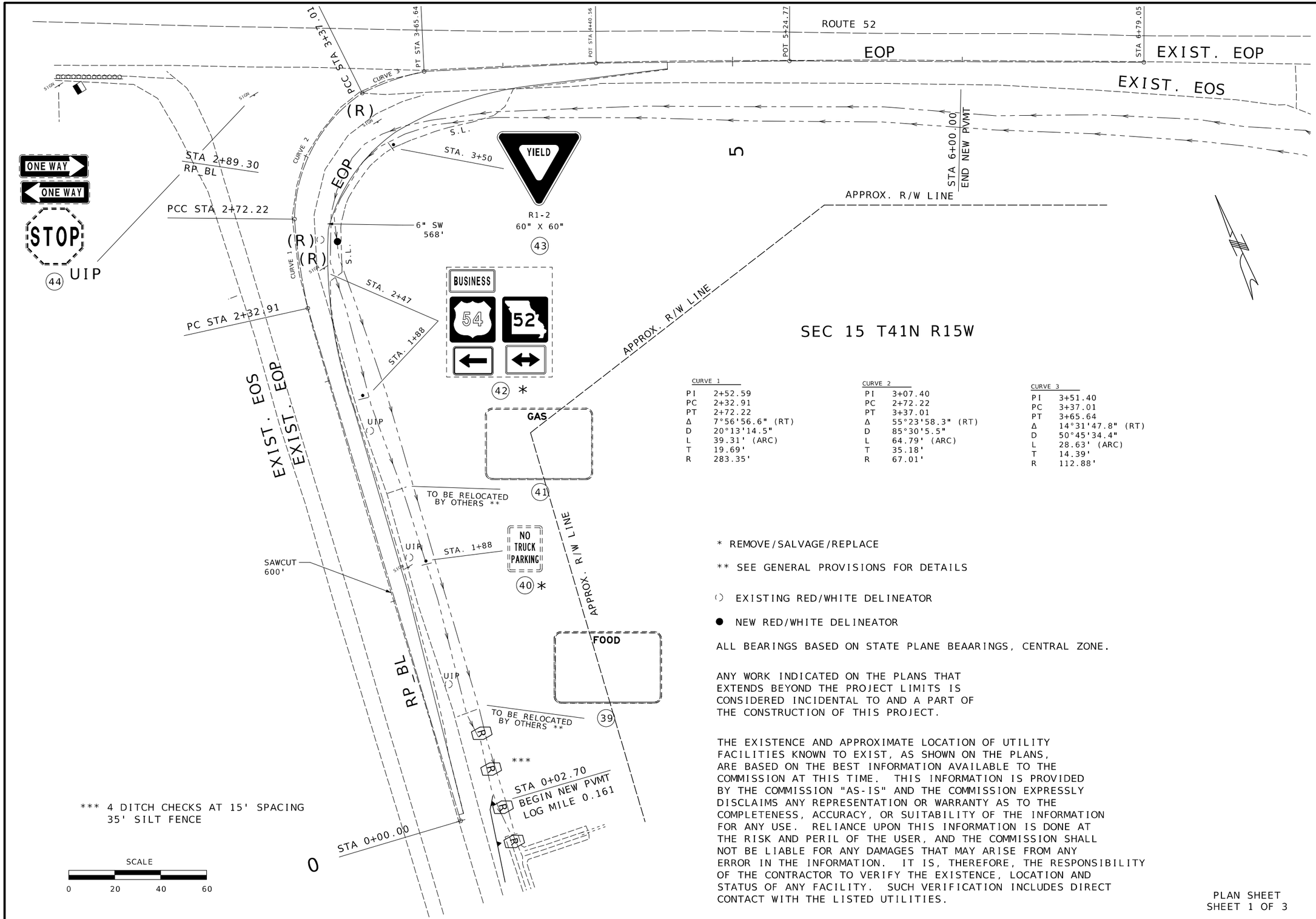
ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	175	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099	5	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

QUANTITY SHEET
SHEET 27 OF 27

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY MILLER
JOB NO. J5P3500
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)



CURVE 1	
PI	2+52.59
PC	2+32.91
PT	2+72.22
Δ	7°56'56.6" (RT)
D	20°13'14.5"
L	39.31' (ARC)
T	19.69'
R	283.35'

CURVE 2	
PI	3+07.40
PC	2+72.22
PT	3+37.01
Δ	55°23'58.3" (RT)
D	85°30'5.5"
L	64.79' (ARC)
T	35.18'
R	67.01'

CURVE 3	
PI	3+51.40
PC	3+37.01
PT	3+65.64
Δ	14°31'47.8" (RT)
D	50°45'34.4"
L	28.63' (ARC)
T	14.39'
R	112.88'

*** 4 DITCH CHECKS AT 15' SPACING
35' SILT FENCE

* REMOVE/SALVAGE/REPLACE

** SEE GENERAL PROVISIONS FOR DETAILS

(·) EXISTING RED/WHITE DELINEATOR

● NEW RED/WHITE DELINEATOR

ALL BEARINGS BASED ON STATE PLANE BEAARINGS, CENTRAL ZONE.

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

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.

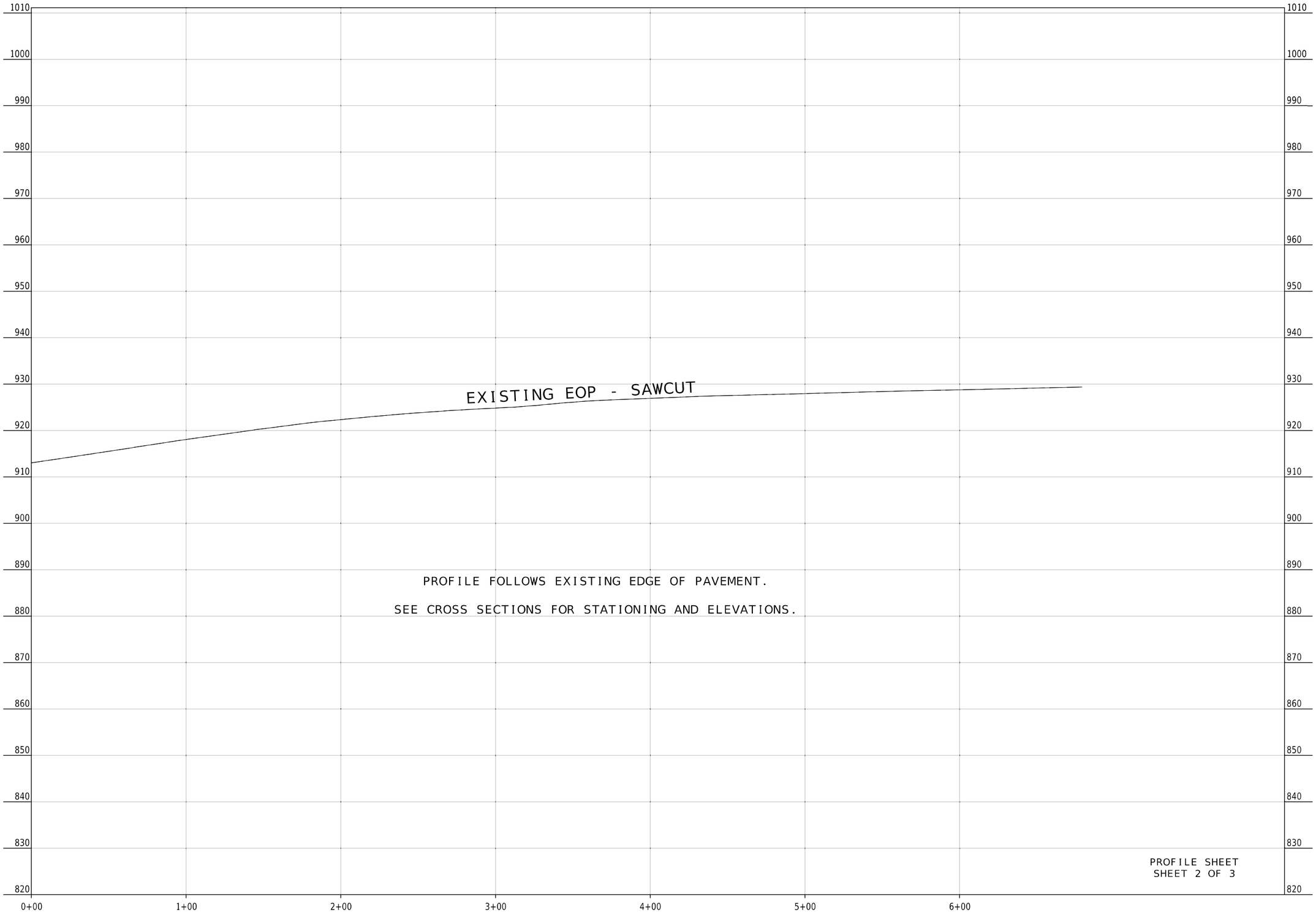
PLAN SHEET
SHEET 1 OF 3

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:16:19 PM
RYAN.JOSEPH.LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 4
COUNTY MILLER	
JOB NO. J5P3500	
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)



STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

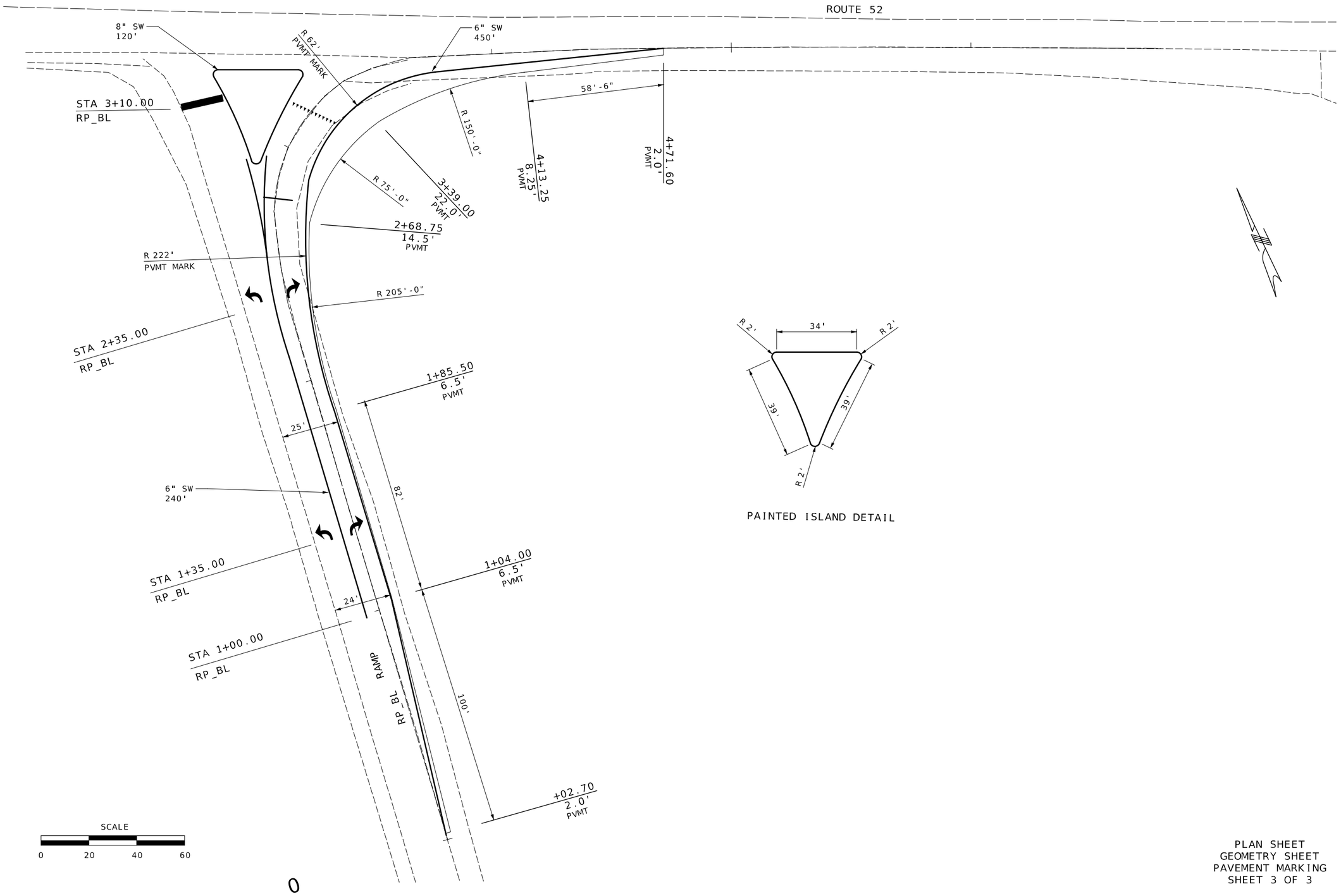
08/05/2024 1:17:38 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	5
COUNTY	
MILLER	
JOB NO.	
J5P3500	
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)



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PLAN SHEET
GEOMETRY SHEET
PAVEMENT MARKING
SHEET 3 OF 3

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 1:17:57 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	STATE MO
DISTRICT	SHEET NO. PLAN2
COUNTY	
JOB NO.	
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)

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD 83
VERTICAL DATUM	NAVD 88
GEOID MODEL	G2018U7
ELEVATIONS DETERMINED BY	FREDRICK WILDE, PLS
PROJECT PROJECTION FACTOR	1.0000986

REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
CONTROL STATION	
DESIGNATION	MODOT ELDON CORS ARP
CORS_ID	MOEL
PID	DL6153
LATITUDE	N 38° 20′ 49.67807″
LONGITUDE	W 92° 35″ 43.33476″
NORTHING (M)	278965.623
EASTING (M)	491663.545
ZONE	2402 (MO-CENTRAL)
PROJECT AVERAGE GRID FACTOR	0.99989301

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

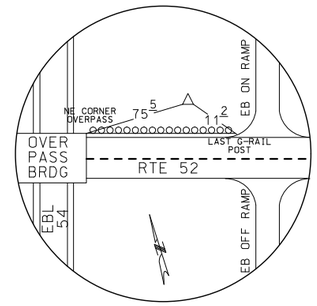
EXAMPLE: CONTROL POINT #801
N 1618143.841 X 0.99989301 = N 1617970.716
E 900808.063 X 0.99989301 = E 900711.6855

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

801

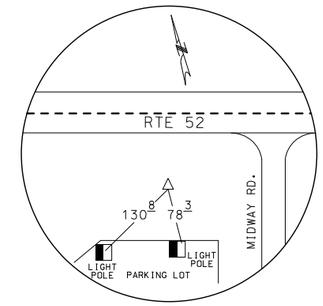
REBAR $0^{.00}$ 12′N/$O^{.20}$N.E.P.
RTE. 52, 180′ E/O E.E.P – E.B.L. RTE. 54



X – 1618143.841
Y – 900808.063
Z – 923.98

802

REBAR AND CAP BURIED $0^{.10}$,36′ S/O S.E.P.
RTE 52, 25′ W/O W.E.P. MIDWAY RD "OLD 54"



X – 1618569.392
Y – 900424.141
Z – 929.95

GROUND COORDINATES

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
		RT 52		900909.063	1618143.841	923.98	REBAR : N/O NEP RT 52; E/O EEP RTE 54	801
		RT 52		861383.93	1544956.81	944.41	BAR W/ CAP BURIED: S/O SEP RTE 52; W/O WEP MIDWAY RD.	802
ALIGNMENTS								
	0+00.00	RP_BL	0	900395.27	1618097.52	913.03	POINT OF BEGINNING FOR CONSTRUCTION BASELINE	START
	2+32.91	RP_BL	0	900620.30	1618157.57	923.37	PC FOR CURVE 1	BASELINE EXIST (CURVE 1)
	2+52.59	RP_BL		900638.90	1618164.00		PI FOR CURVE 1	CURVE 1
	2+72.22	RP_BL	0	900656.44	1618172.95	924.34	PT FOR CURVE 1/PC FOR CURVE 2	CURVE 1/CURVE 2
	3+07.40	RP_BL		900686.25	1618191.64		PI FOR CURVE 2	BASELINE EXIST1 (CURVE 2)
	3+37.01	RP_BL	0	900687.79	1618226.78	925.75	PT FOR CURVE 2/PC FOR CURVE 3	CURVE 2/CURVE 3
	3+51.40	RP_BL		900686.53	1618241.12		PI FOR CURVE 3	BASLINE EXIST2 (CURVE 3)
	3+65.64	RP_BL		900681.71	1618254.68		PT FOR CURVE 3	CURVE 3
	4+40.56	RP_BL	0	900645.66	1618320.36	926.47	POT	BASELINE EXIST4
	5+24.77	RP_BL	0	900602.39	1618392.60	927.46	POT	BASELINE EXIST5
	6+79.05	RP_BL	0	900521.19	1618523.79	929.36	POINT OF ENDING FOR CONSTRUCTION BASELINE	END

REFERENCE POINT SHEET
CONTROL POINT SHEET
SHEET 1 OF 1

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:18:15 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
MILLER

JOB NO.
J5P3500

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)

LEGEND

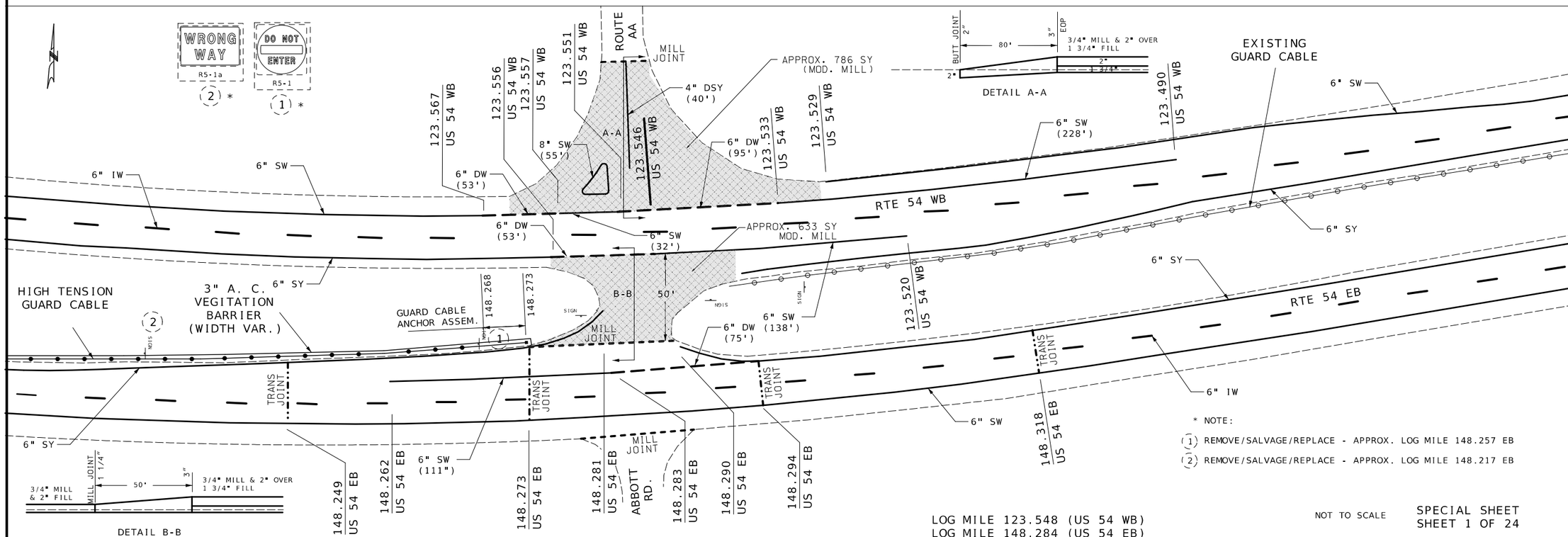
DW	DOTTED WHITE		MILL LINE
IW	INTERMITTENT WHITE		TRANSITION LINE
IY	INTERMITTENT YELLOW		CENTERLINE
DY	DOTTED YELLOW		EXTENSION LINE
SW	SOLID WHITE		
SY	SOLID YELLOW		
DSY	DOUBLE SOLID YELLOW		
YB	YIELD BAR		
HB	HASH BAR		
	NEW GUARD CABLE		
SIGN	EXISTING SIGN		

LOG MILES ARE APPROXIMATE. QUANTITIES BASED ON APPROXIMATE LOCATION OF EXISTING ROADWAY FEATURES AND PROPOSED GUARD CABLE ANCHORING SYSTEMS. INSTALL GUARD CABLE AND ANCHORING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

PLACE PAVEMENT MARKING SAME AS EXISTING, UNLESS OTHERWISE NOTED. ARROWS AND HASH BARS ARE NOT TO BE REPLACED, UNLESS OTHERWISE NOTED.

SEE SIGNING SHEETS AND JSP'S FOR DETAILS ON REMOVAL/SALVAGE/REPLACE DETAILS.

SEE TYPICAL SECTION SHEETS FOR TRANSITION DETAILS ON EASTBOUND LANES.



SPECIAL SHEET
SHEET 1 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

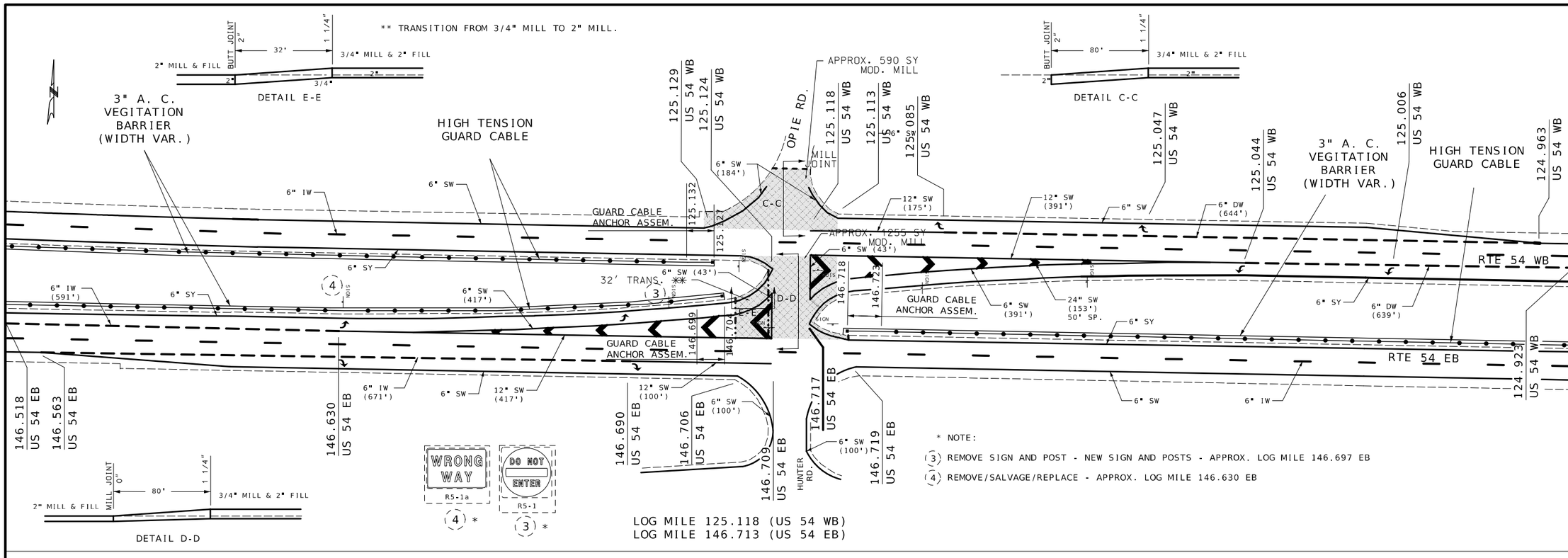
08/05/2024 1:18:36 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

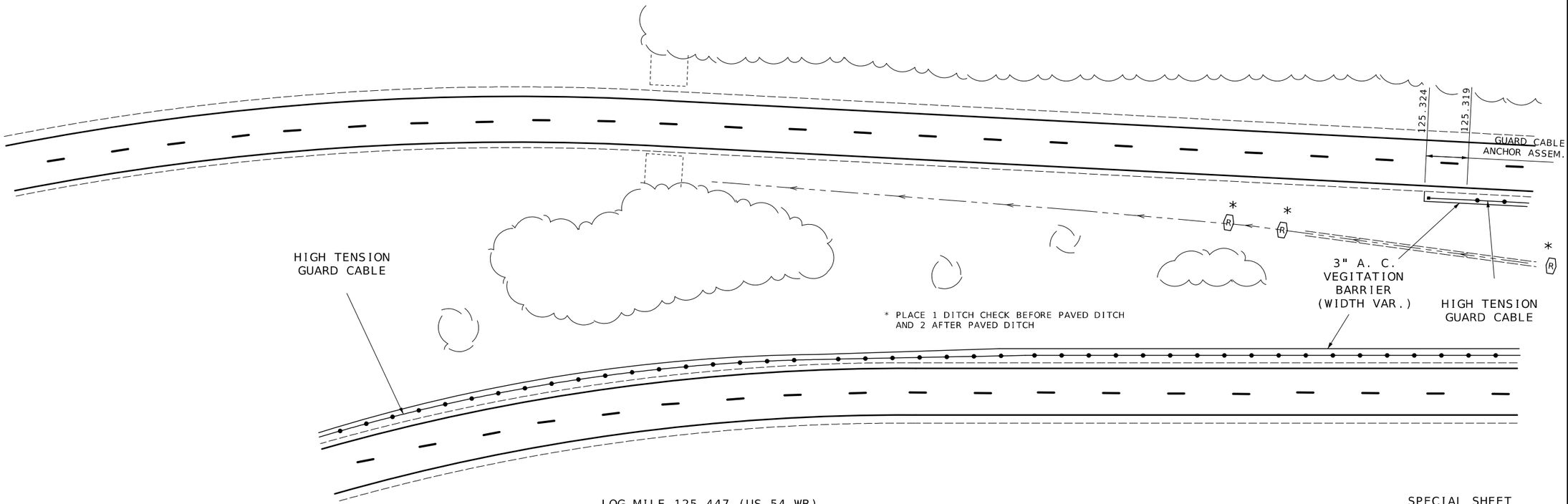
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* NOTE:

(3) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 146.697 EB

(4) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 146.630 EB



NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:21:46 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

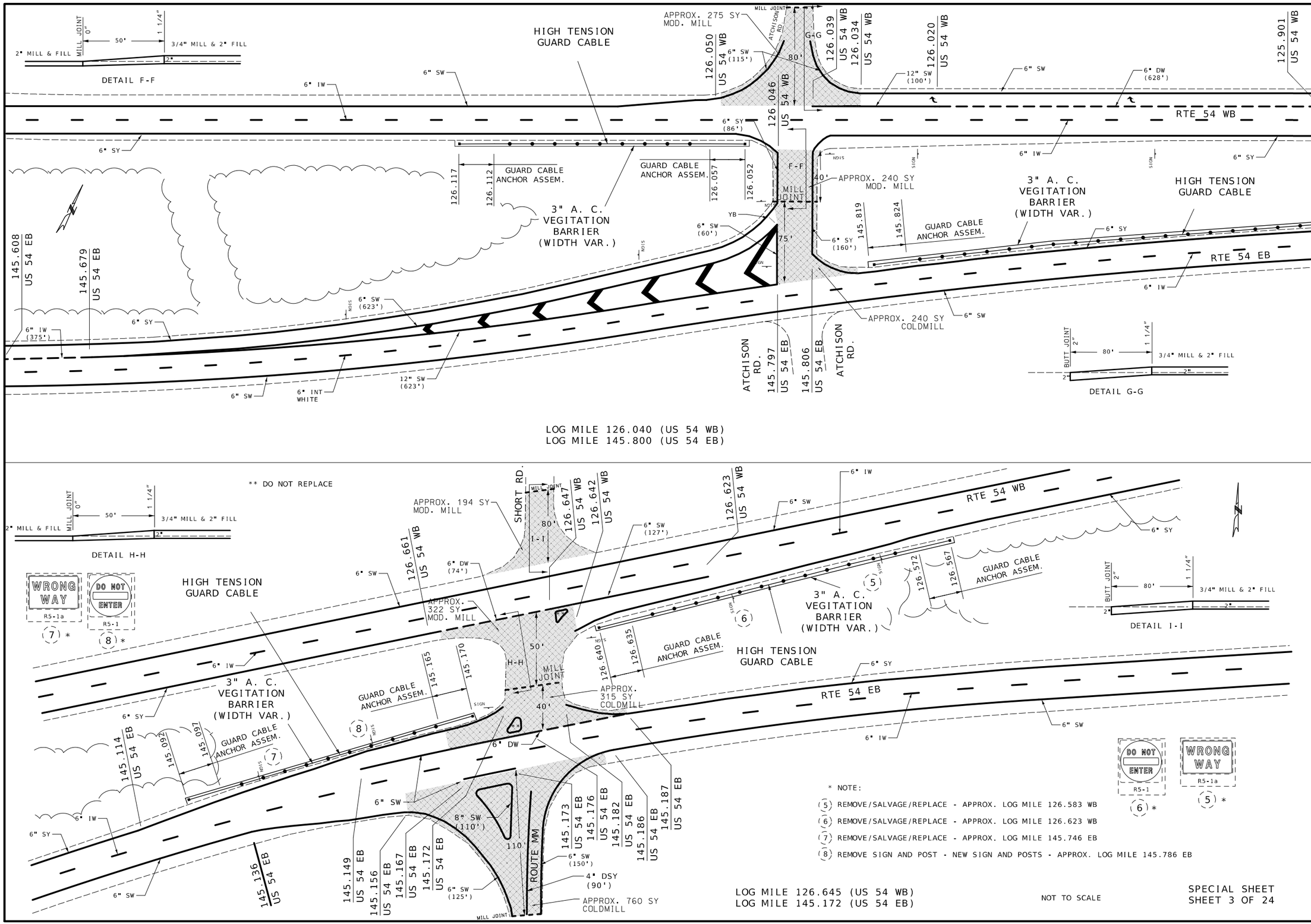
DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	9
COUNTY	MILLER
JOB NO.	J5P3500
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



* NOTE:

(5) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 126.583 WB

(6) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 126.623 WB

(7) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 145.746 EB

(8) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 145.786 EB

SPECIAL SHEET
SHEET 3 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

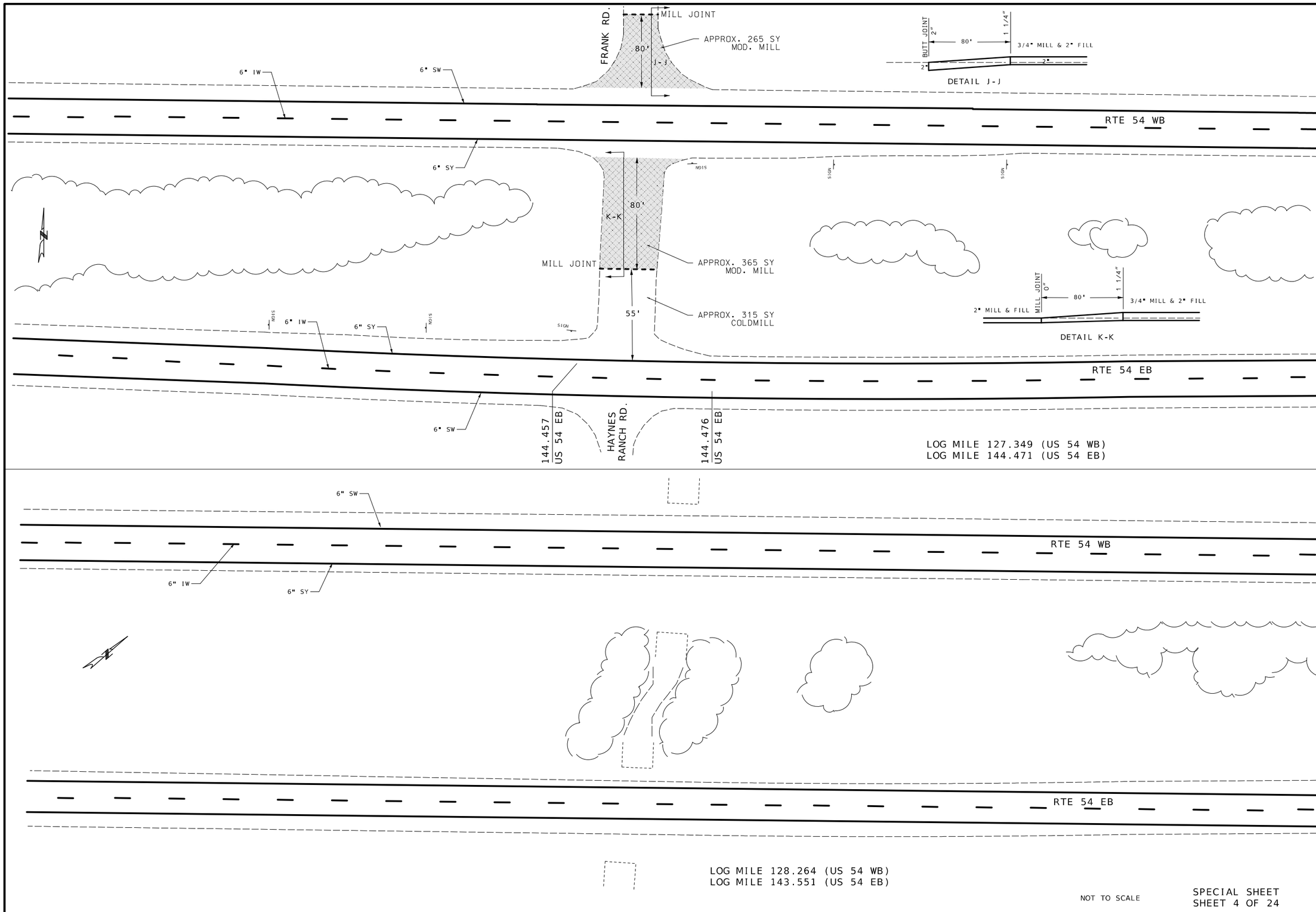
08/05/2024 1:37:03 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	10
COUNTY	MILLER
JOB NO.	J5P3500
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)



NOT TO SCALE

SPECIAL SHEET
SHEET 4 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

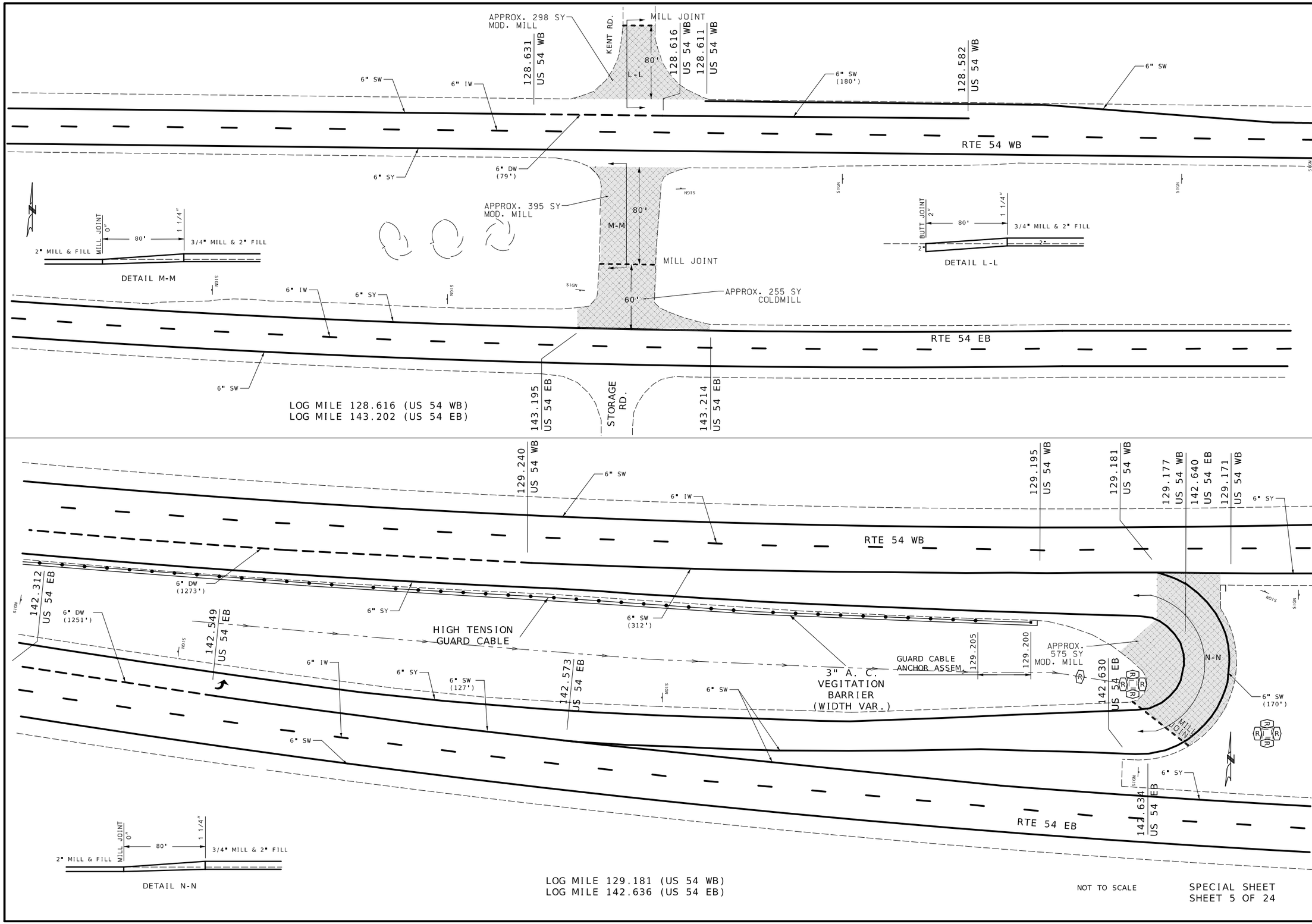
08/05/2024 1:37:15 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	11
COUNTY	MILLER
JOB NO.	J5P3500
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)



STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

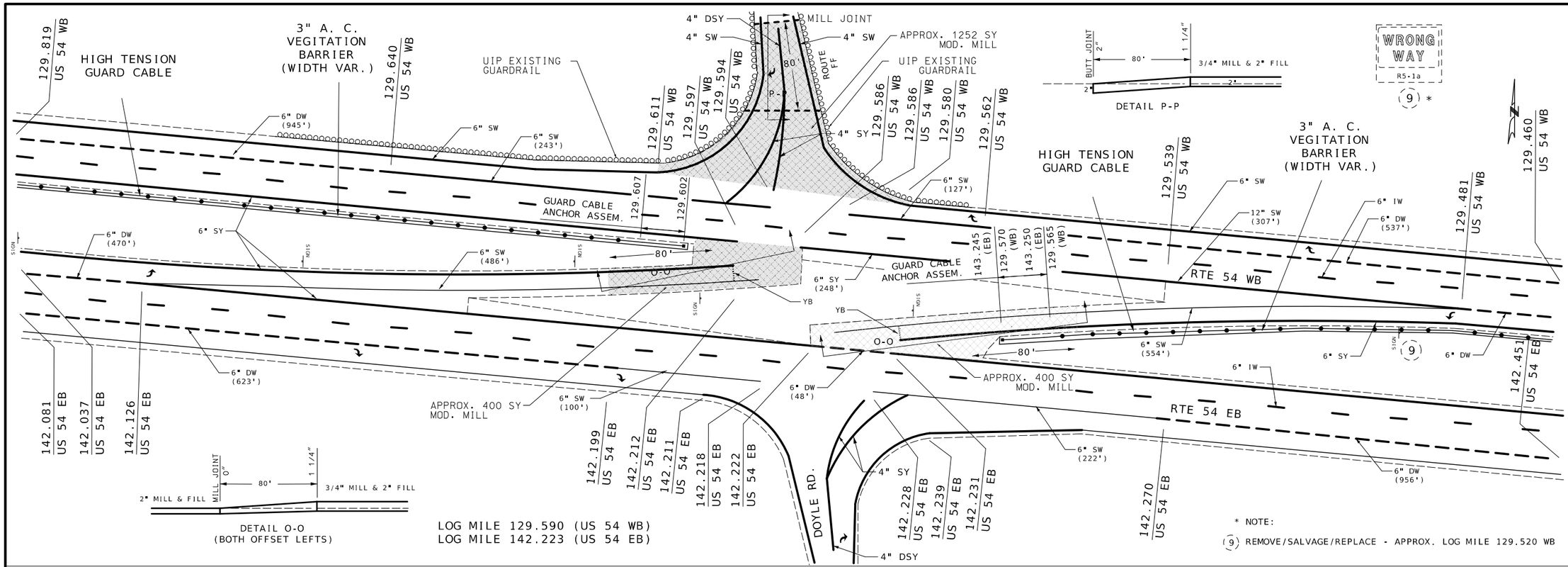
08/05/2024 1:37:26 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	12
COUNTY	MILLER
JOB NO.	J5P3500
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
SHEET 6 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

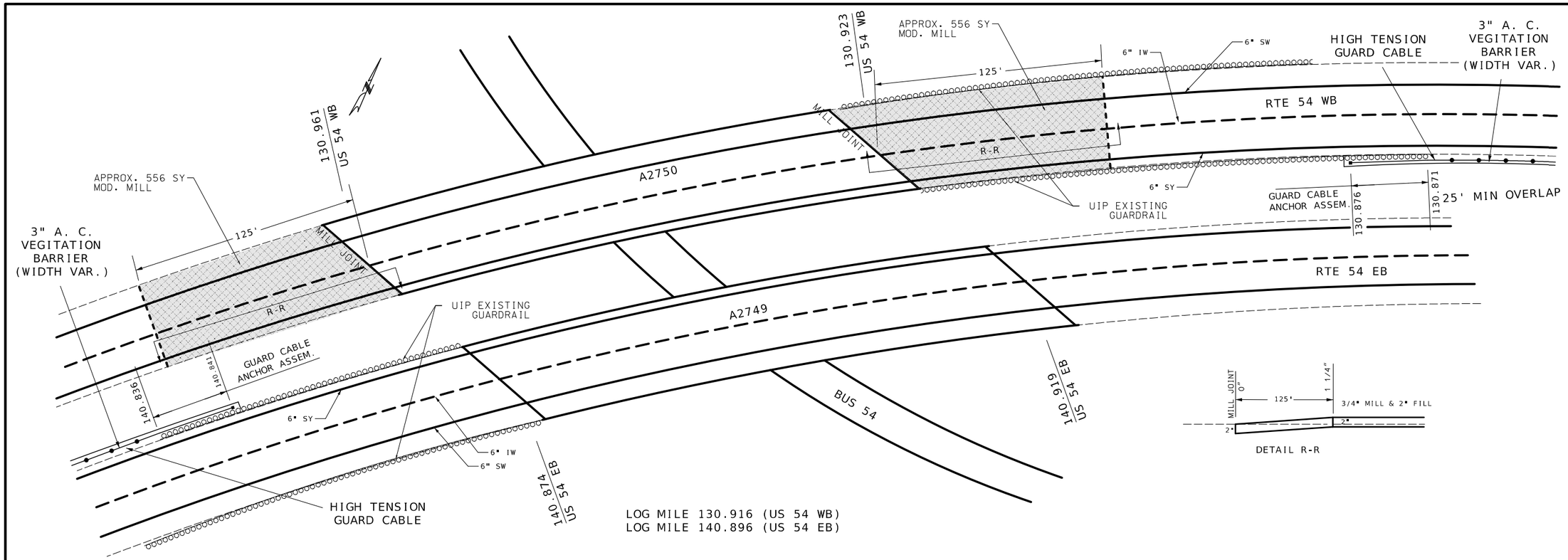
08/05/2024 1:37:34 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

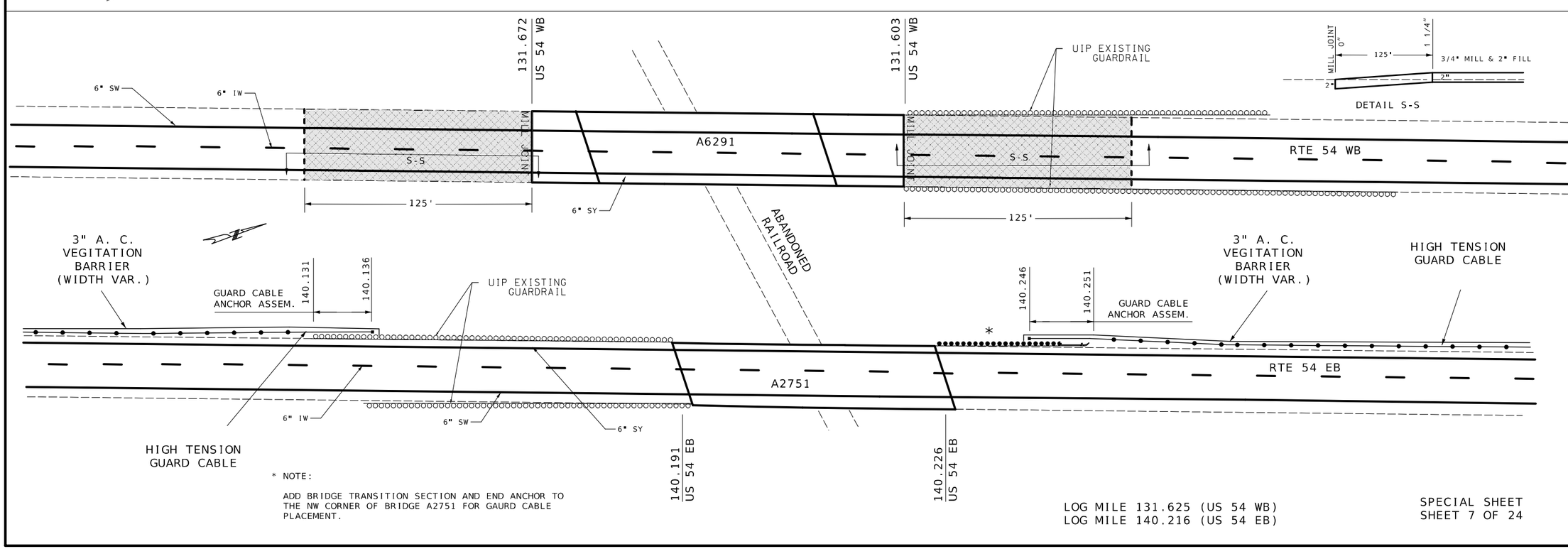
DATE PREPARED	
8/5/2024	
ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	13
COUNTY	
MILLER	
JOB NO.	
J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





* NOTE:

ADD BRIDGE TRANSITION SECTION AND END ANCHOR TO THE NW CORNER OF BRIDGE A2751 FOR GAURD CABLE PLACEMENT.

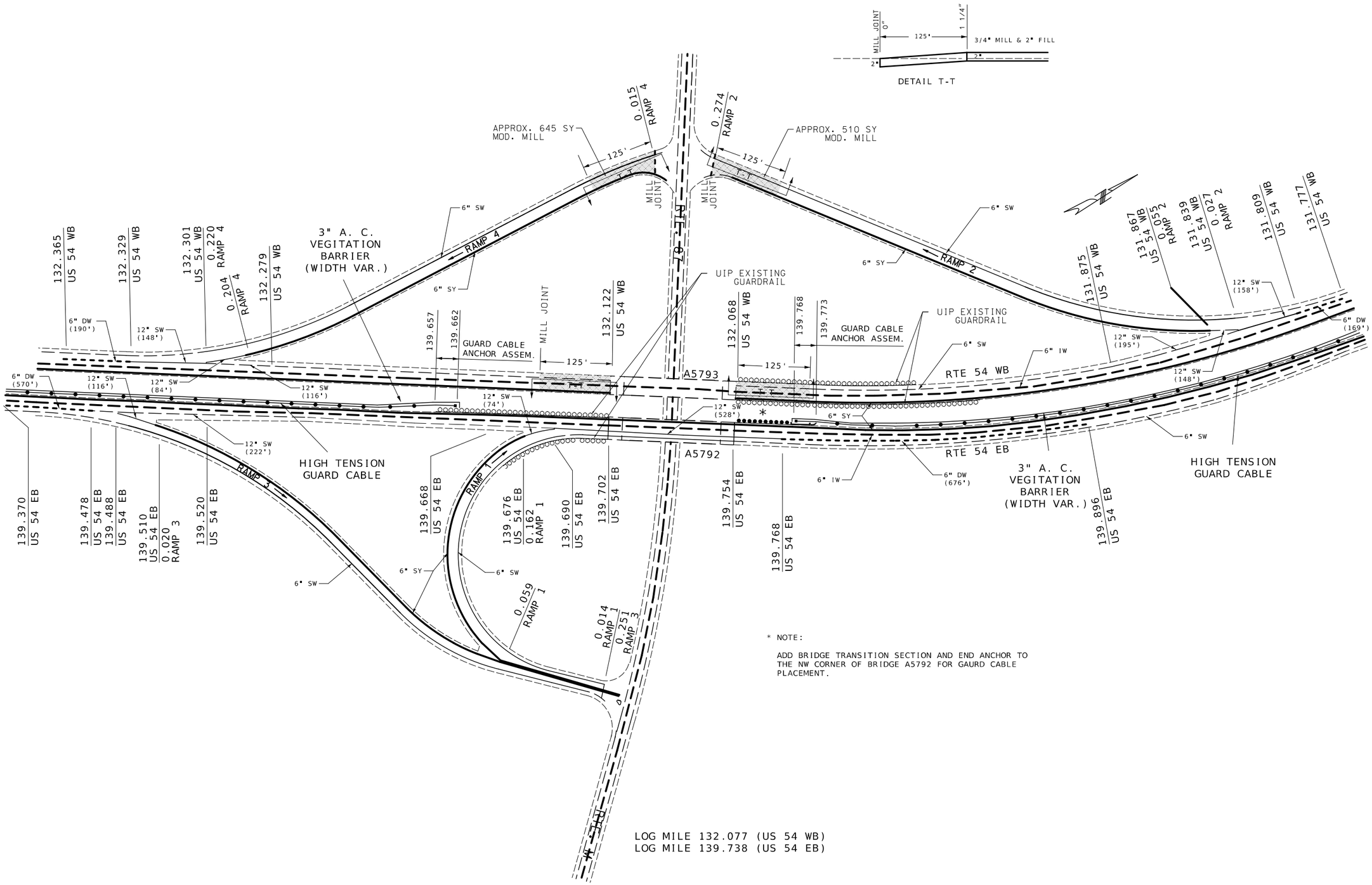
SPECIAL SHEET
SHEET 7 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:37:43 PM
RYAN JOSEPH LIBBERT -CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 14
COUNTY MILLER	
JOB NO. J5P3500	
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)



* NOTE:

ADD BRIDGE TRANSITION SECTION AND END ANCHOR TO THE NW CORNER OF BRIDGE A5792 FOR GAURD CABLE PLACEMENT.

NOT TO SCALE

SPECIAL SHEET
SHEET 8 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

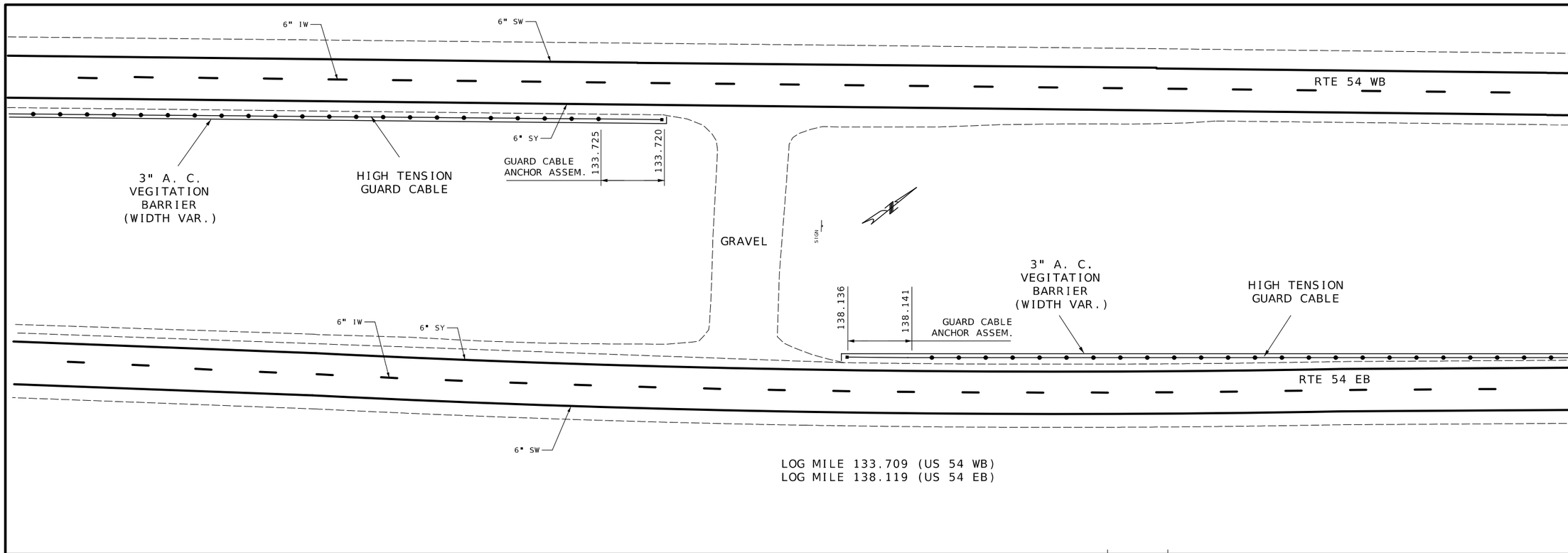
08/05/2024 1:37:52 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

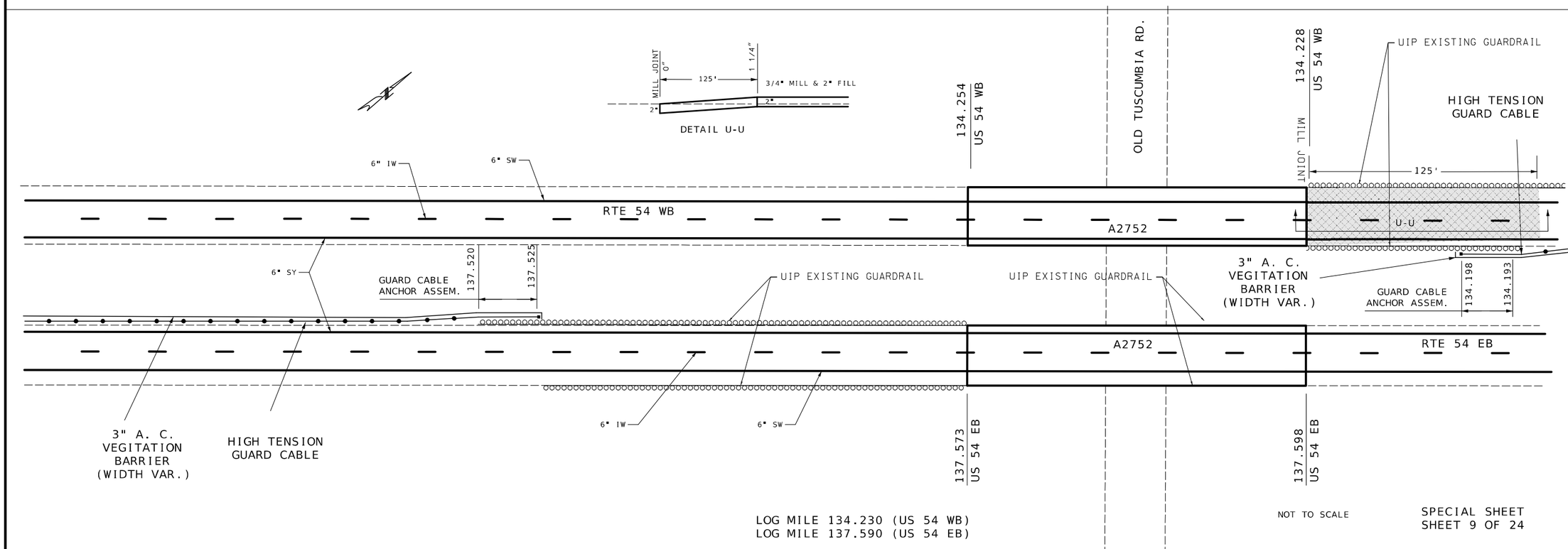
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 15
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





NOT TO SCALE

SPECIAL SHEET
SHEET 9 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

08/05/2024 1:38:01 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	16
COUNTY	MILLER
JOB NO.	J5P3500
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

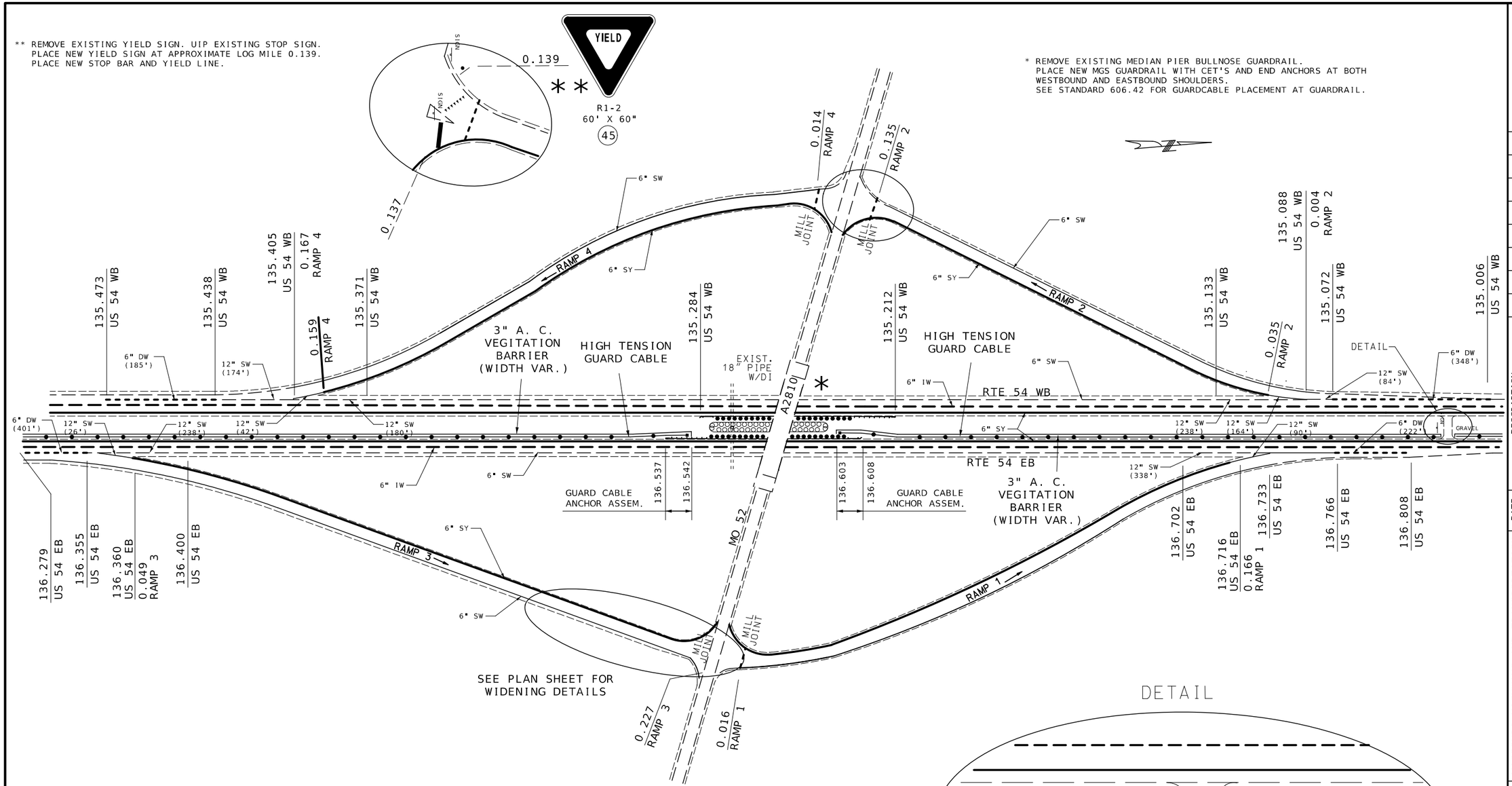
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

** REMOVE EXISTING YIELD SIGN. UIP EXISTING STOP SIGN.
PLACE NEW YIELD SIGN AT APPROXIMATE LOG MILE 0.139.
PLACE NEW STOP BAR AND YIELD LINE.

* REMOVE EXISTING MEDIAN PIER BULLNOSE GUARDRAIL.
PLACE NEW MGS GUARDRAIL WITH CET'S AND END ANCHORS AT BOTH WESTBOUND AND EASTBOUND SHOULDERS.
SEE STANDARD 606.42 FOR GUARDCABLE PLACEMENT AT GUARDRAIL.



LOG MILE 135.257 (US 54 WB)
LOG MILE 136.573 (US 54 EB)

NOT TO SCALE

SPECIAL SHEET
SHEET 10 OF 24

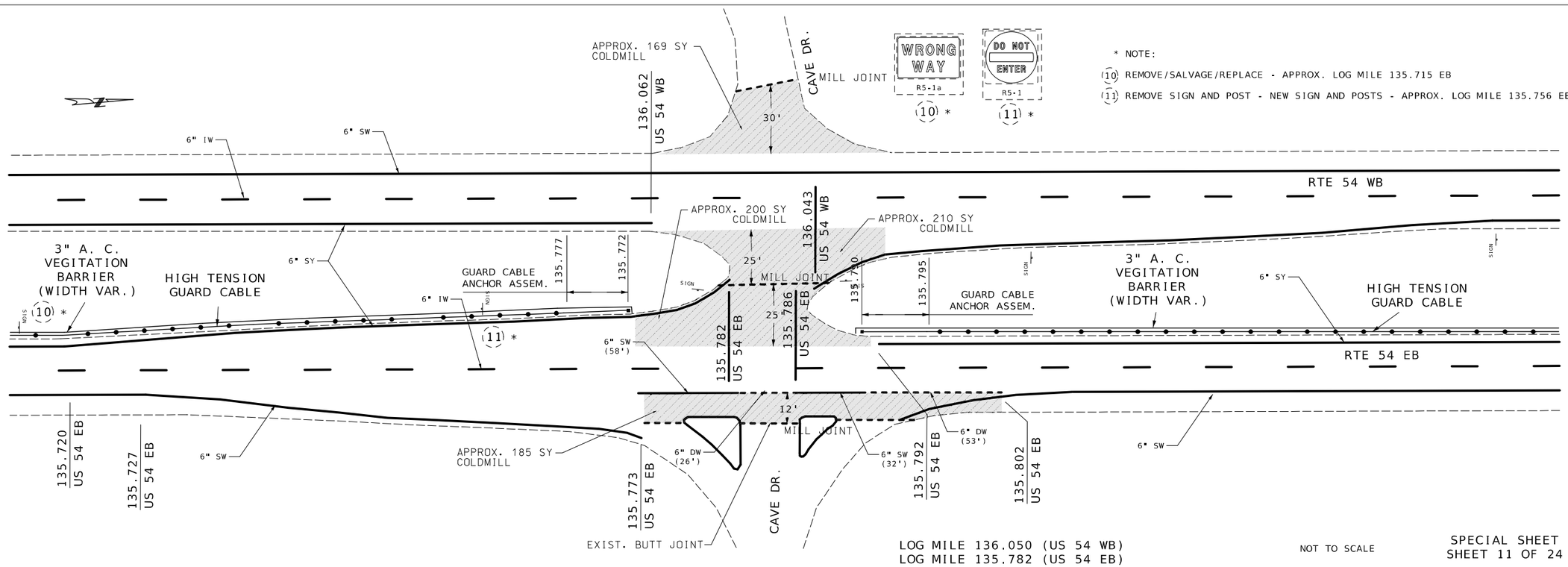
STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:18:51 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	17
COUNTY	MILLER
JOB NO.	J5P3500
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)



* NOTE:

(10) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 135.715 EB

(11) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 135.756 EB

LOG MILE 136.050 (US 54 WB)
LOG MILE 135.782 (US 54 EB)

NOT TO SCALE

SPECIAL SHEET
SHEET 11 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

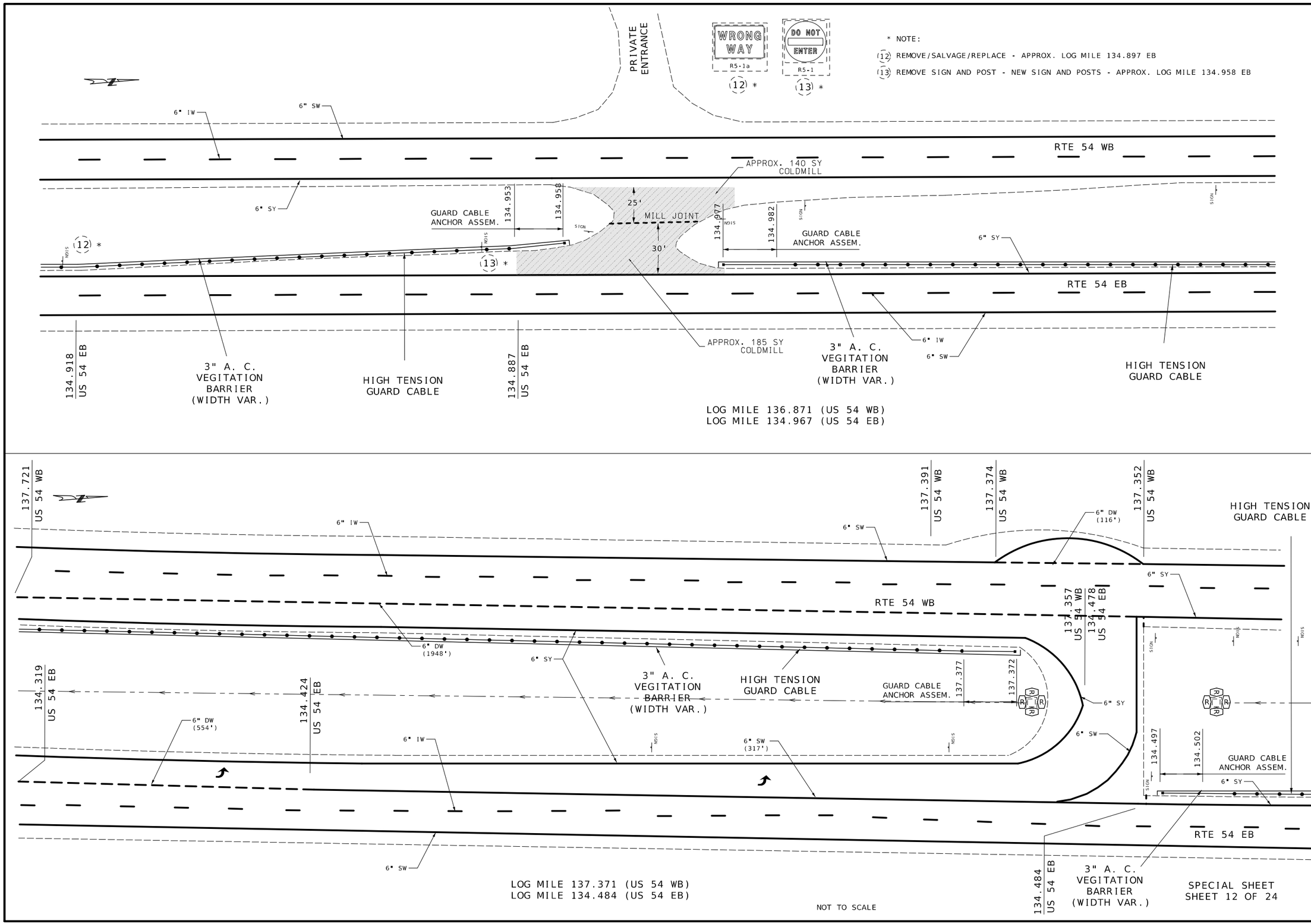
08/05/2024 1:19:07 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	18
COUNTY	
MILLER	
JOB NO.	
J5P3500	
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)



STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

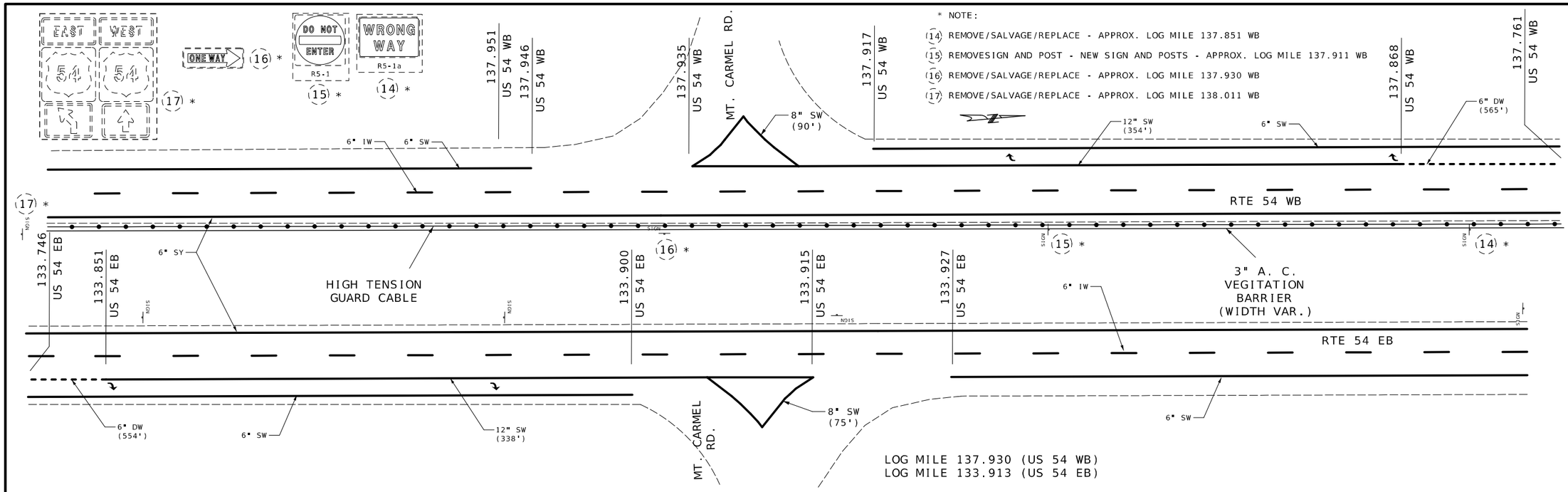
08/05/2024 1:19:26 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	19
COUNTY	MILLER
JOB NO.	J5P3500
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)



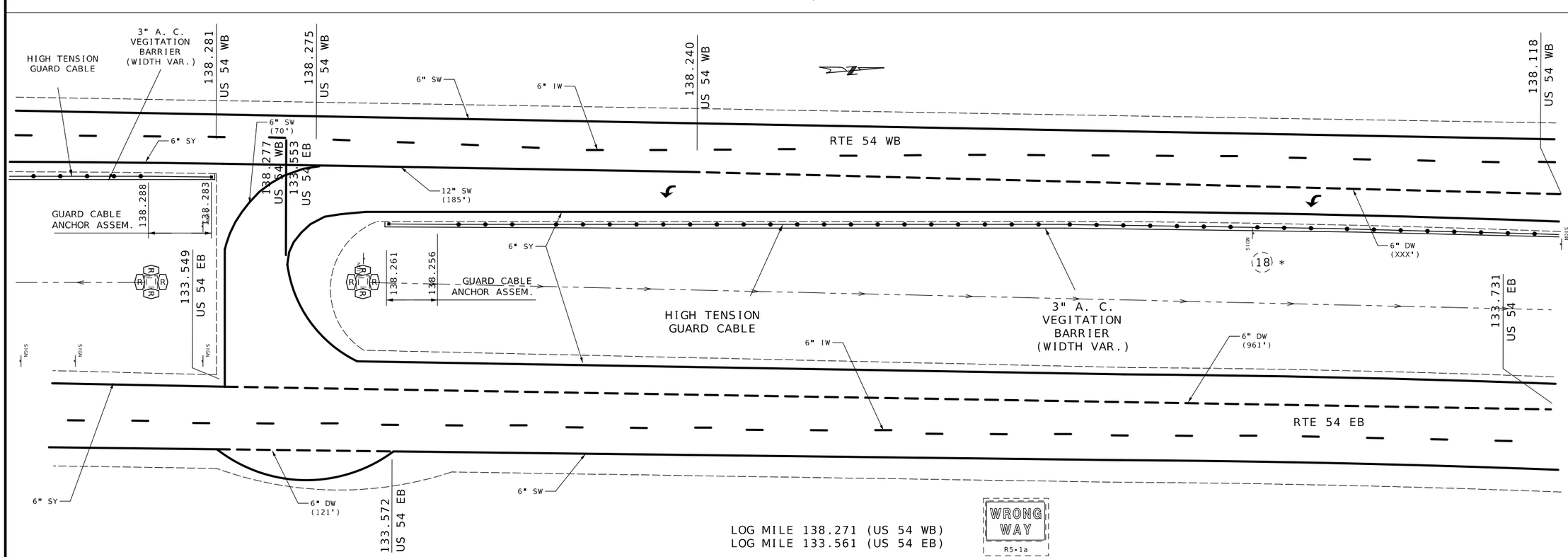
* NOTE:

(14) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 137.851 WB

(15) REMOVESIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 137.911 WB

(16) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 137.930 WB

(17) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 138.011 WB



* NOTE:

(18) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 138.242 WB

NOT TO SCALE

SPECIAL SHEET
SHEET 13 OF 24

STATE OF MISSOURI
RYAN JOSEPH UBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

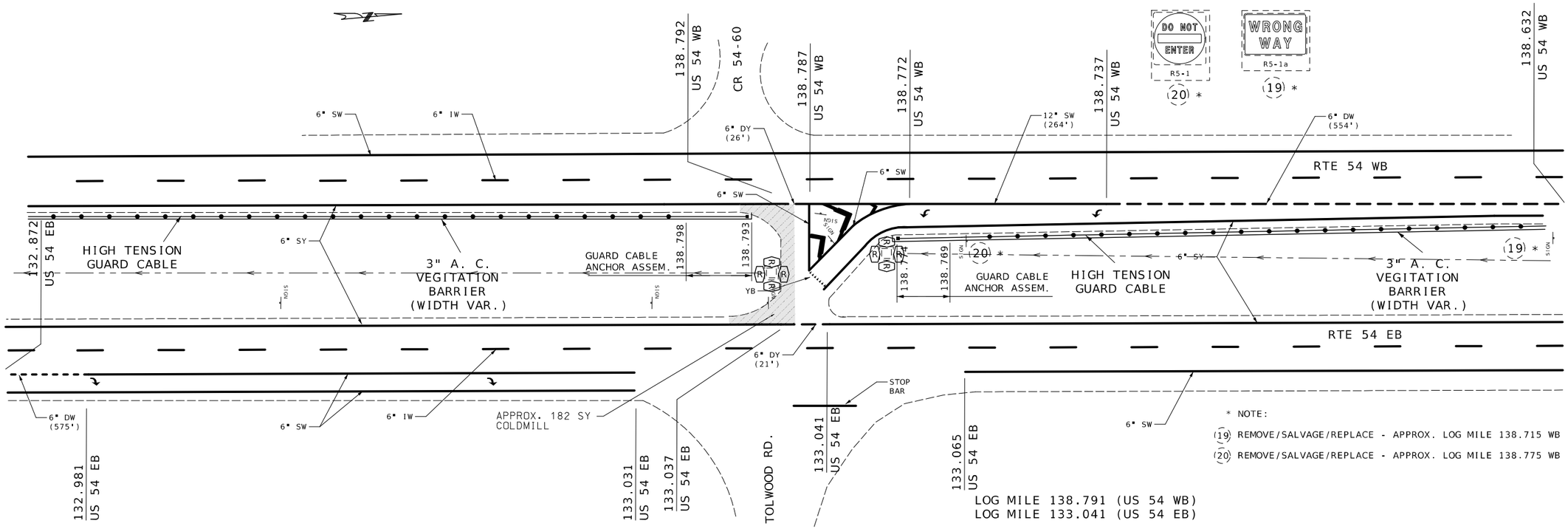
08/05/2024 1:19:45 PM
RYAN JOSEPH UBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 20
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

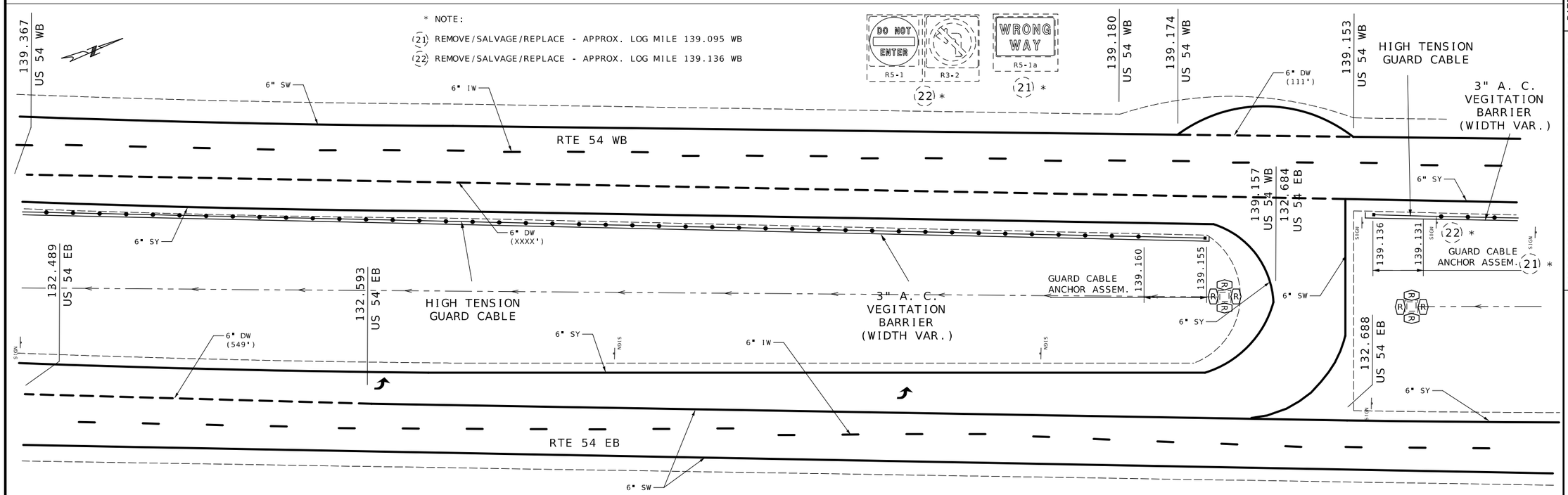
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* NOTE:

(19) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 138.715 WB

(20) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 138.775 WB



* NOTE:

(21) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 139.095 WB

(22) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 139.136 WB

NOT TO SCALE

SPECIAL SHEET
SHEET 14 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

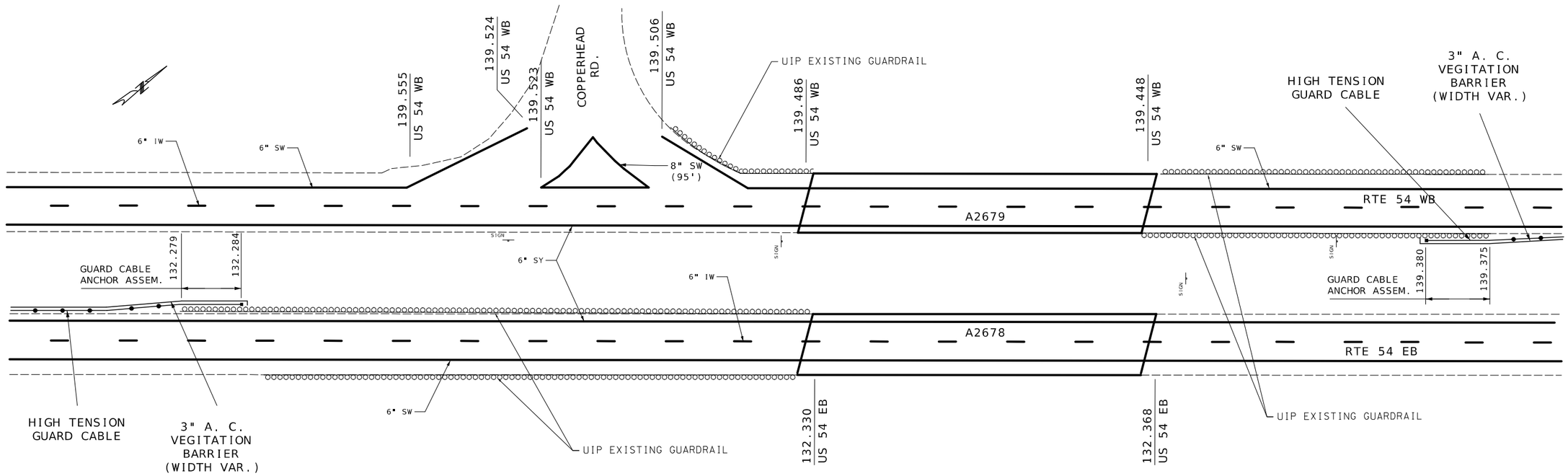
08/05/2024 1:20:01 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 21
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



LOG MILE 139.515 (US 54 WB)
LOG MILE 132.304 (US 54 EB)

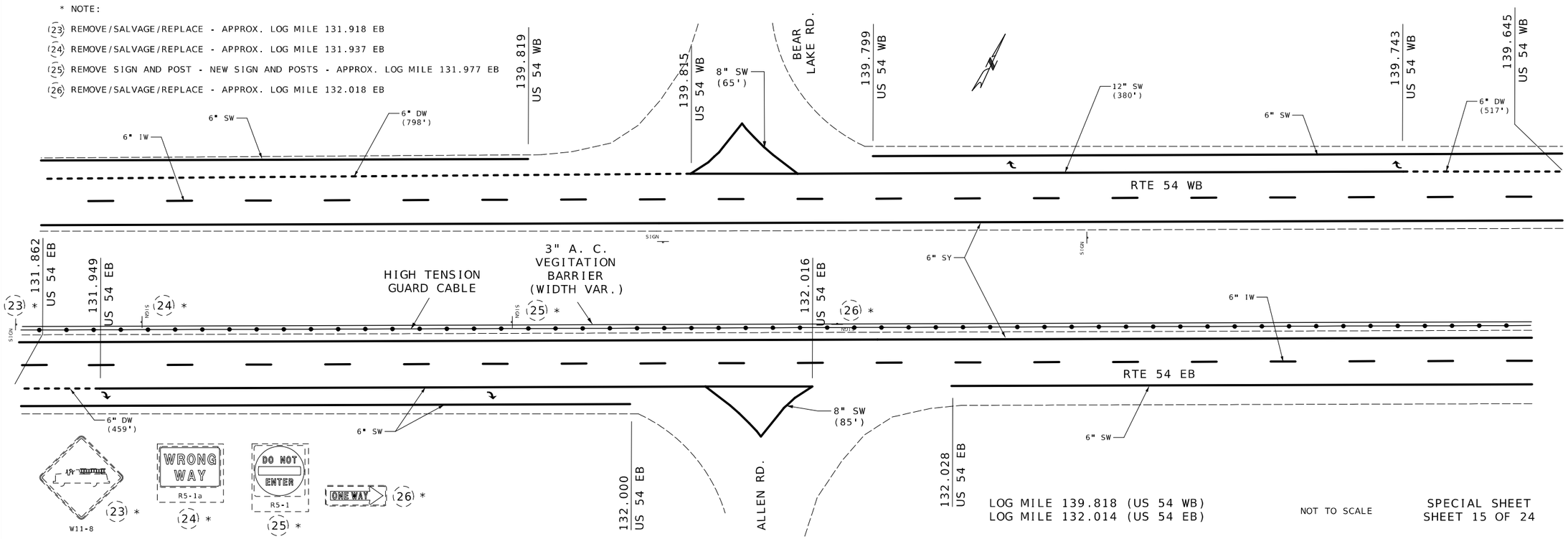
* NOTE:

(23) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.918 EB

(24) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.937 EB

(25) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 131.977 EB

(26) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 132.018 EB



LOG MILE 139.818 (US 54 WB)
LOG MILE 132.014 (US 54 EB)

NOT TO SCALE

SPECIAL SHEET
SHEET 15 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

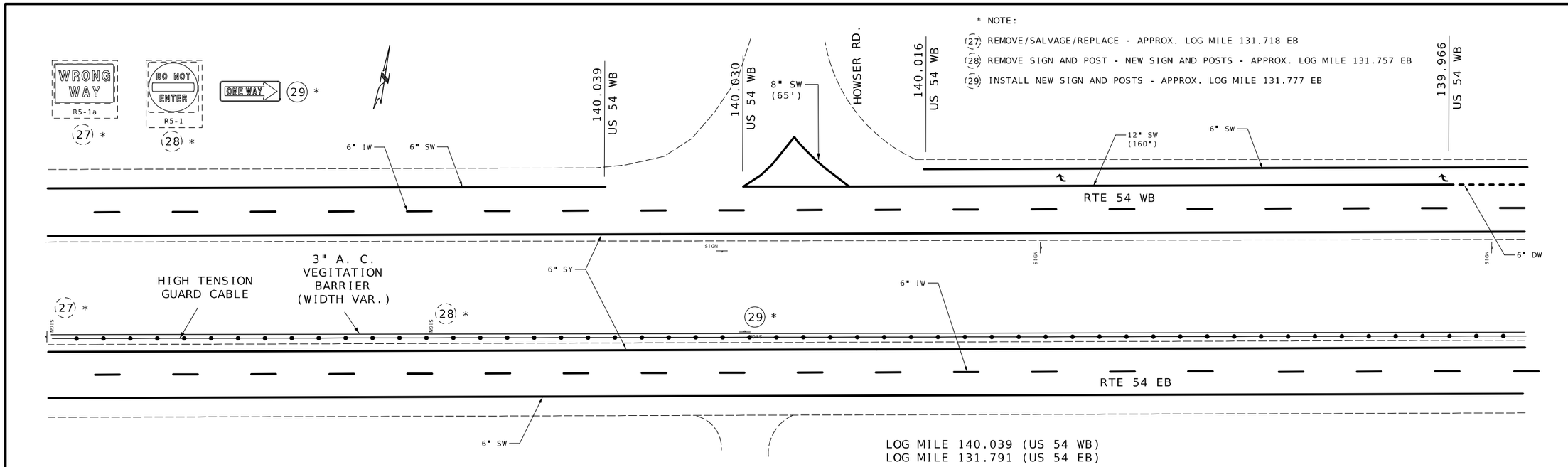
08/05/2024 1:20:19 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	22
COUNTY	MILLER
JOB NO.	J5P3500
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)

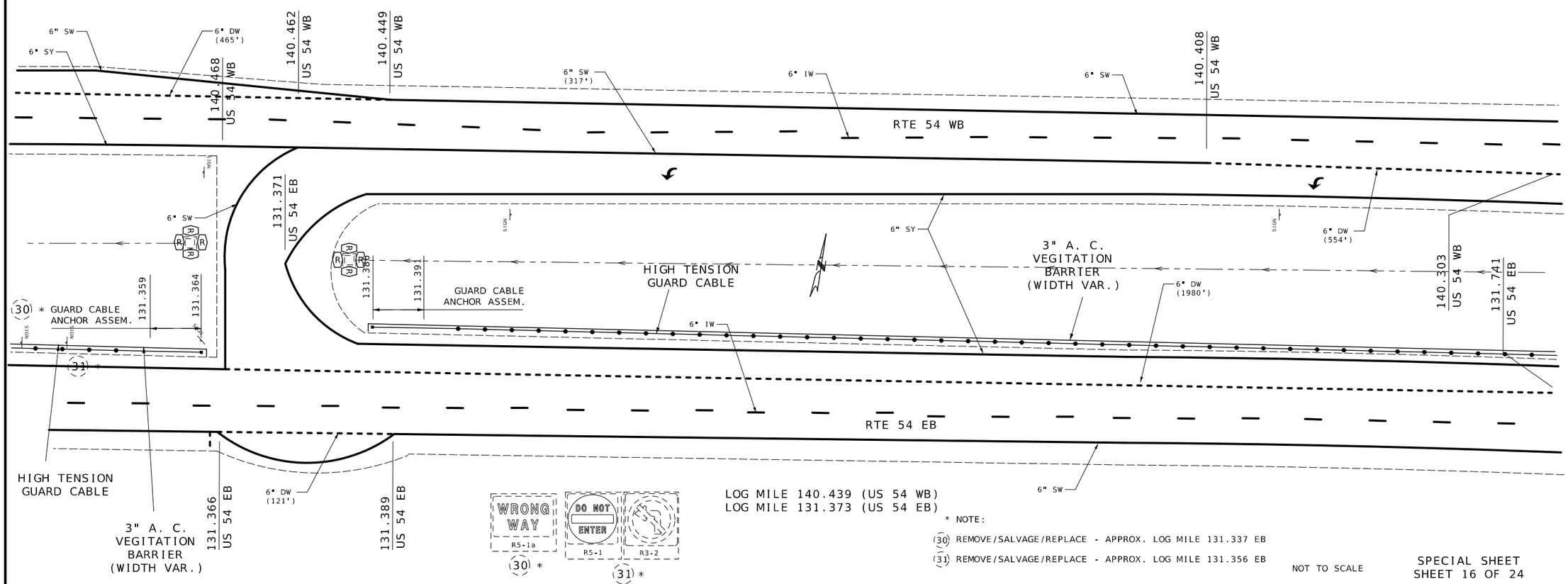


* NOTE:

(27) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.718 EB

(28) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 131.757 EB

(29) INSTALL NEW SIGN AND POSTS - APPROX. LOG MILE 131.777 EB



* NOTE:

(30) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.337 EB

(31) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.356 EB

NOT TO SCALE

SPECIAL SHEET
SHEET 16 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

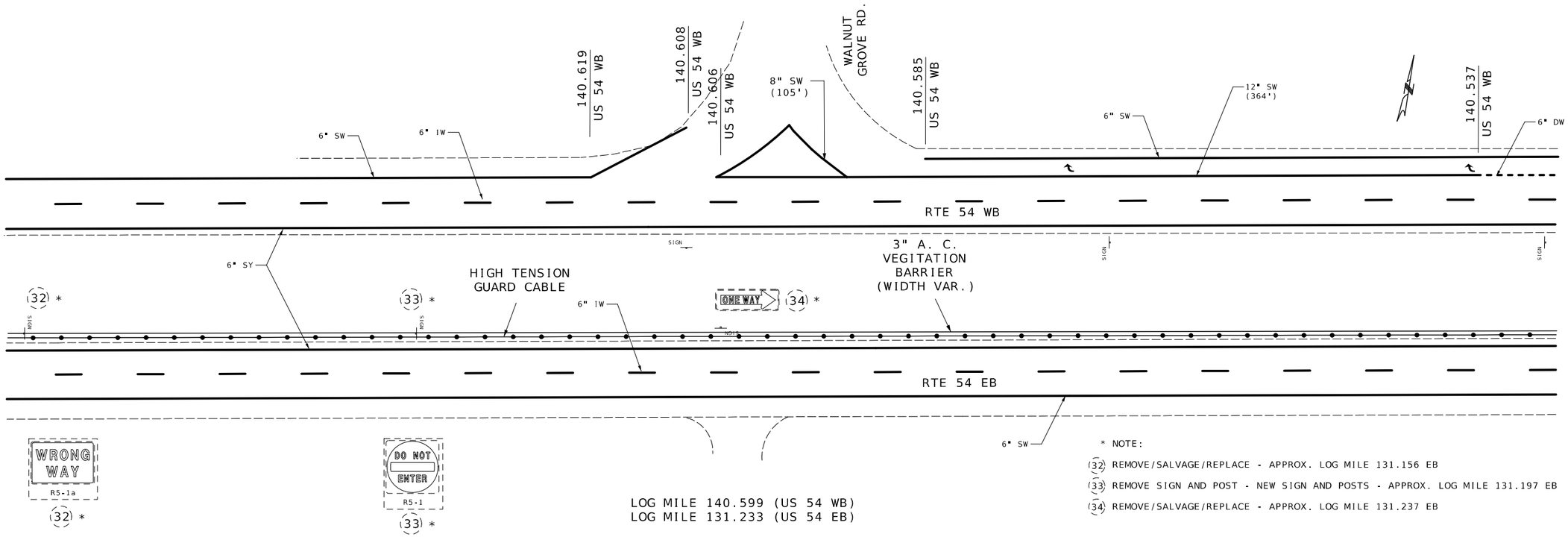
08/05/2024 1:20:34 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 23
COUNTY MILLER	
JOB NO. J5P3500	
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)

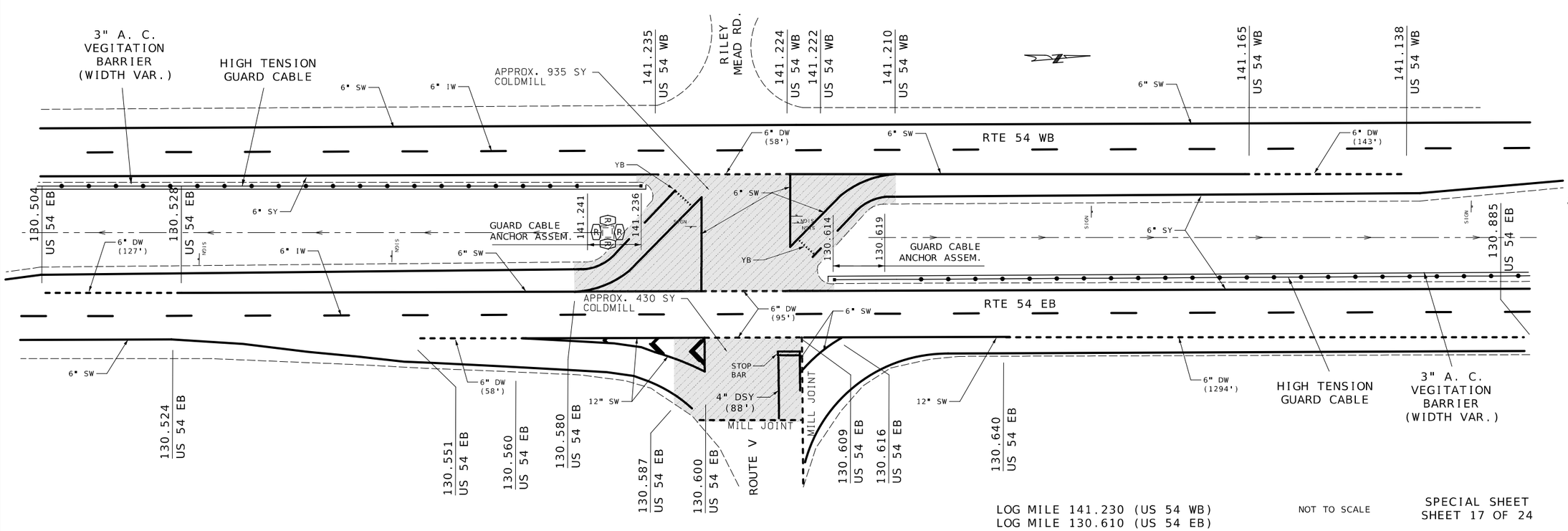


* NOTE:

(32) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.156 EB

(33) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 131.197 EB

(34) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 131.237 EB



NOT TO SCALE

SPECIAL SHEET
SHEET 17 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

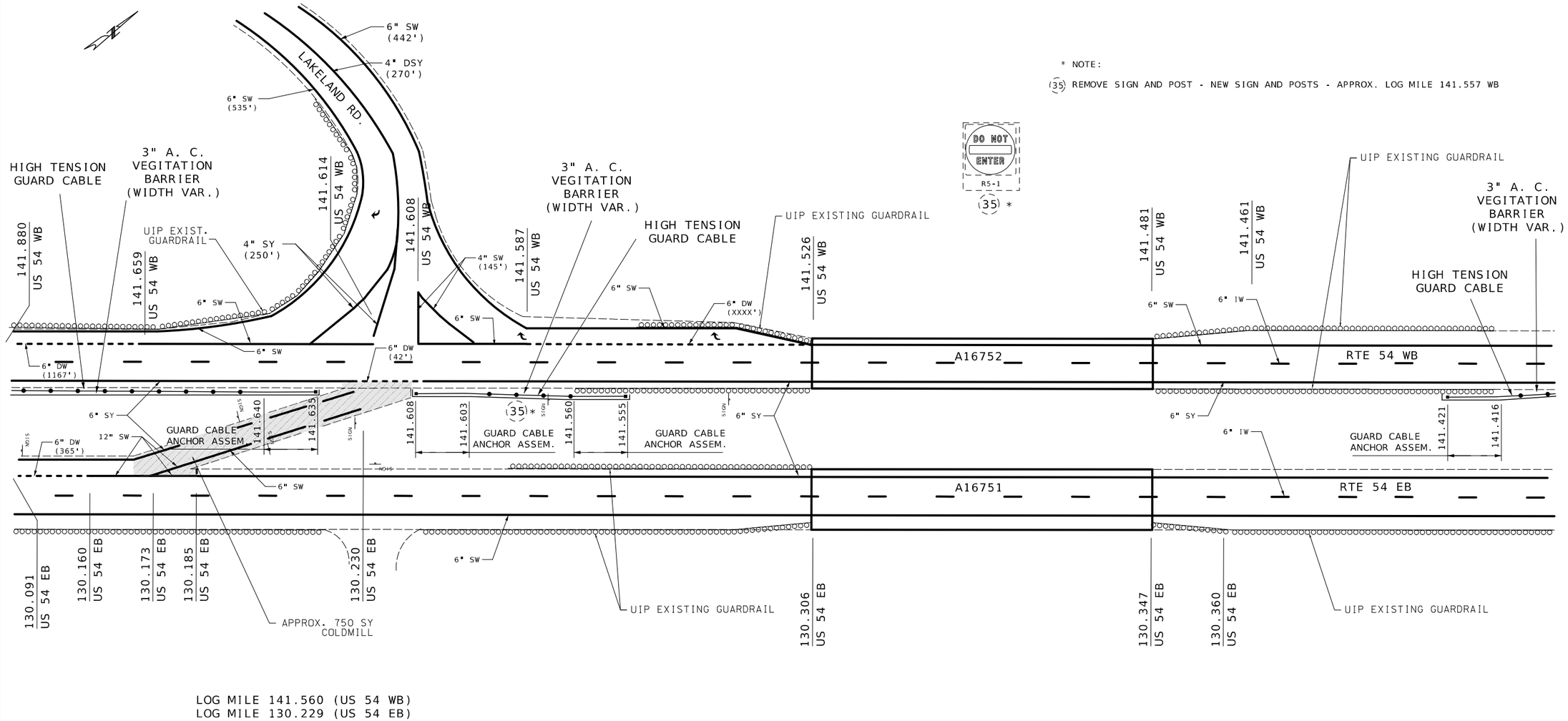
08/05/2024 1:20:50 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	24
COUNTY	MILLER
JOB NO.	J5P3500
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

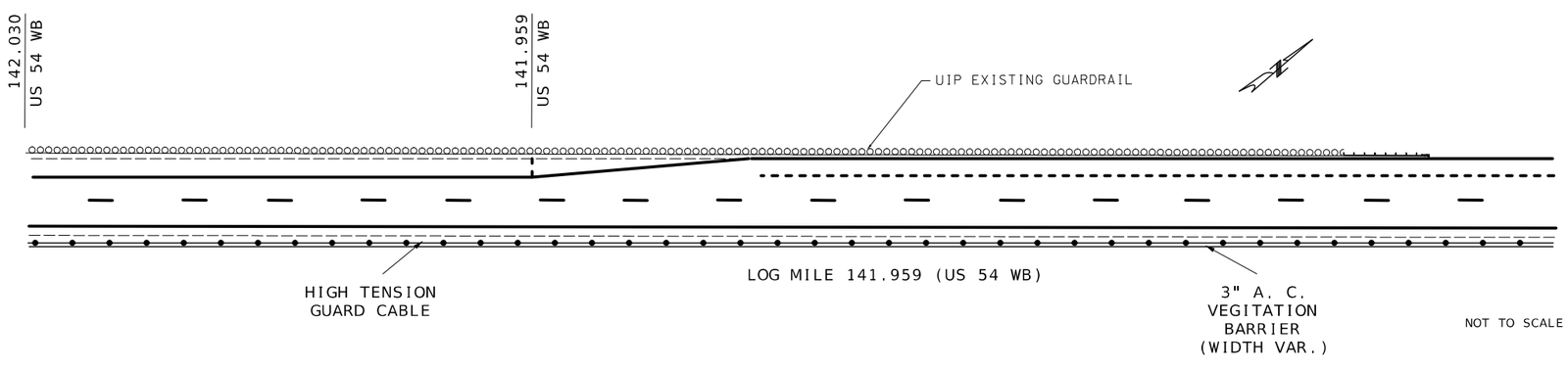
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* NOTE:

(35) REMOVE SIGN AND POST - NEW SIGN AND POSTS - APPROX. LOG MILE 141.557 WB

LOG MILE 141.560 (US 54 WB)
LOG MILE 130.229 (US 54 EB)



LOG MILE 141.959 (US 54 WB)

NOT TO SCALE

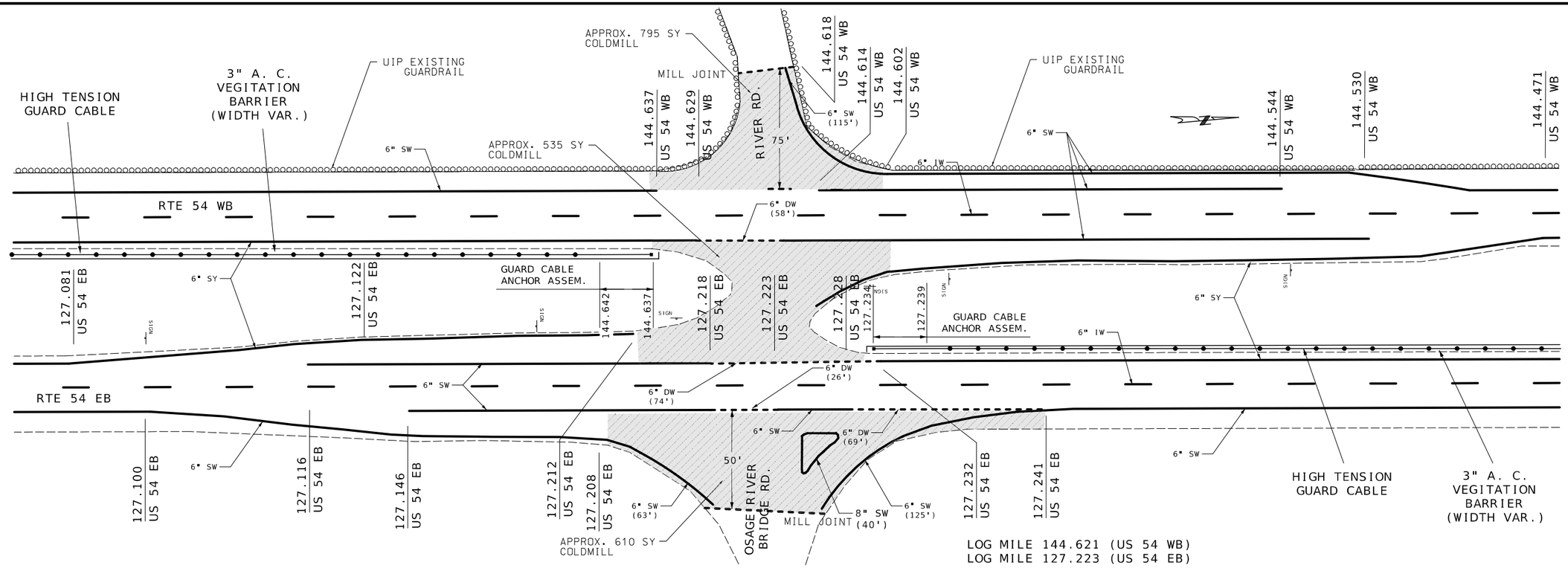
SPECIAL SHEET
SHEET 18 OF 24

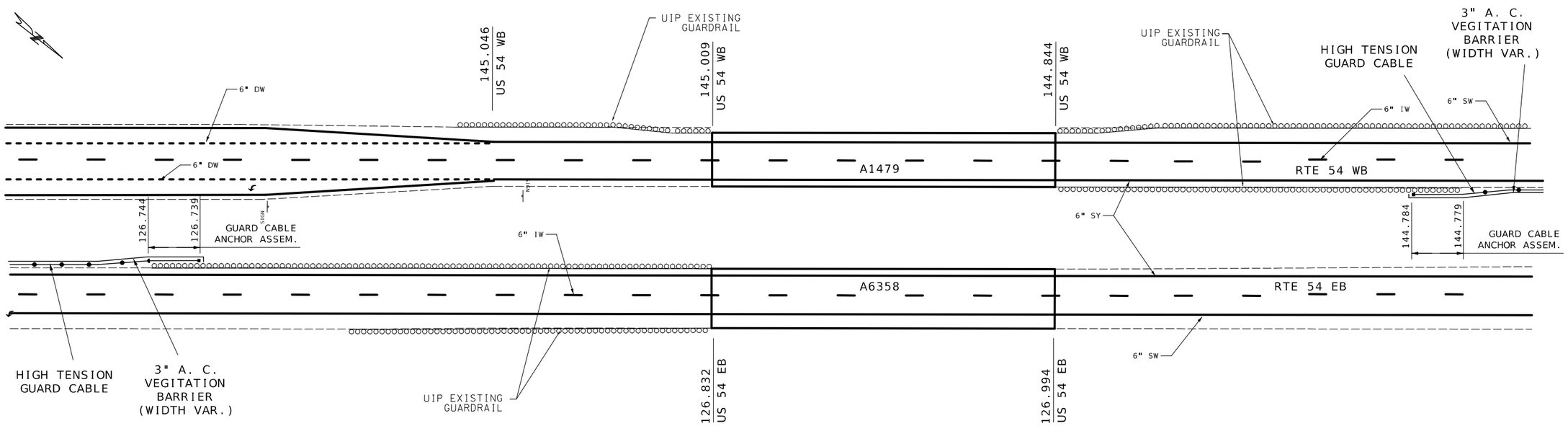
STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:21:09 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	25
COUNTY	MILLER
JOB NO.	J5P3500
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)





LOG MILE 145.187 (US 54 WB)
LOG MILE 126.929 (US 54 EB)

NOT TO SCALE

SPECIAL SHEET
SHEET 21 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:21:28 PM
RYAN.JOSEPH.LIBBERT - CIVIL
MO-PE-2006019679

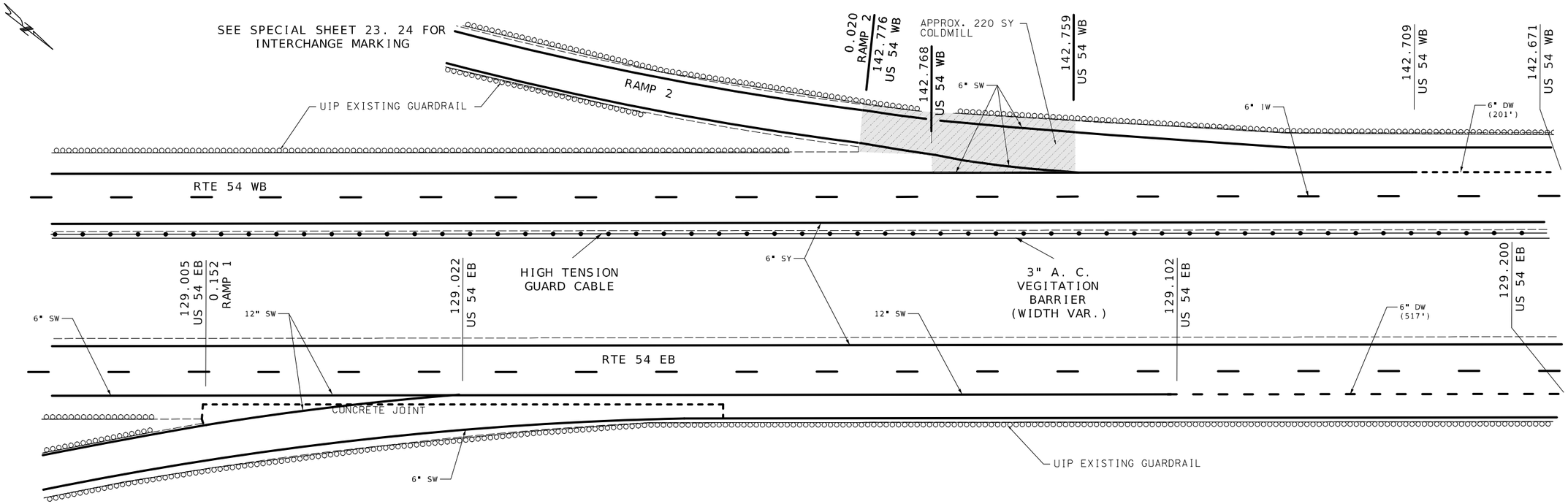
DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	28
COUNTY	MILLER
JOB NO.	J5P3500
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

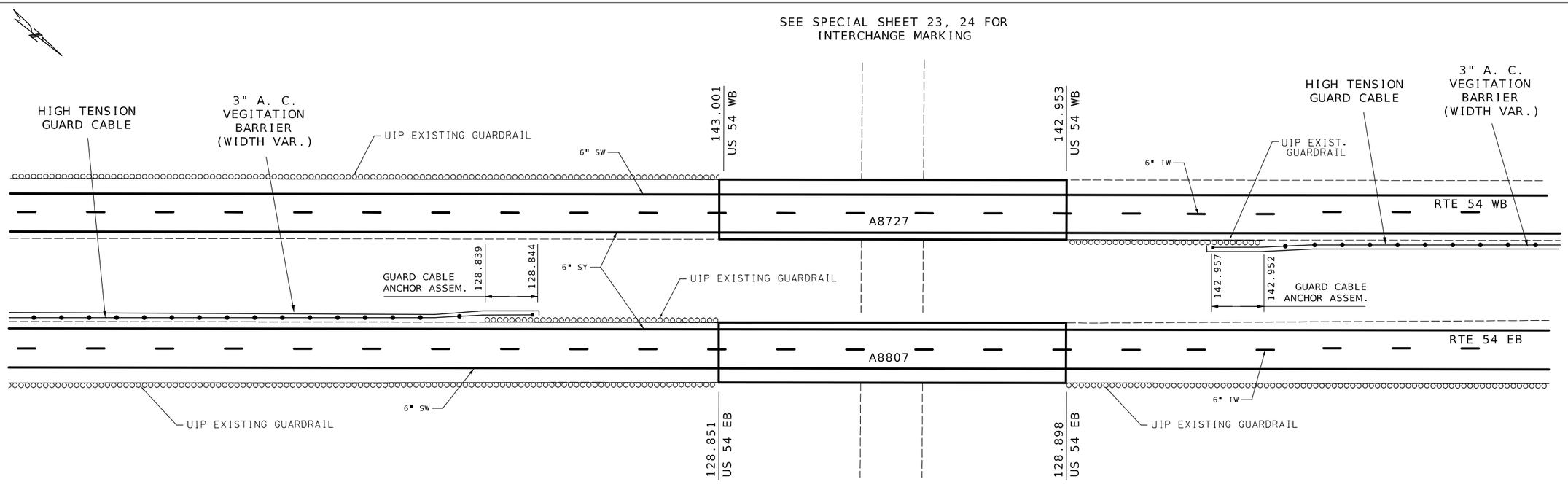
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



LOG MILE 142.854 (US 54 WB)
LOG MILE 129.066 (US 54 EB)



LOG MILE 142.974 (US 54 WB)
LOG MILE 128.871 (US 54 EB)

SEE SPECIAL SHEETS 23, 24 FOR INTERCHANGE MARKING

NOT TO SCALE

SPECIAL SHEET
SHEET 19 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

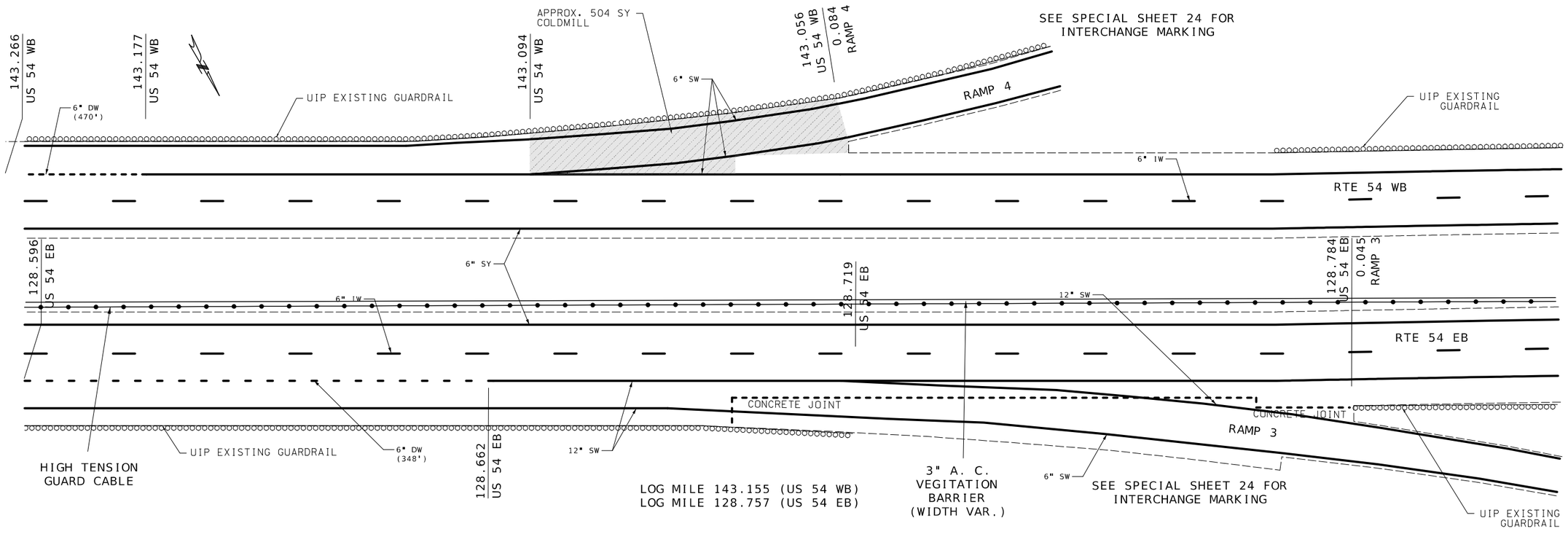
08/05/2024 1:22:01 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 26
COUNTY MILLER	
JOB NO. J5P3500	
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)

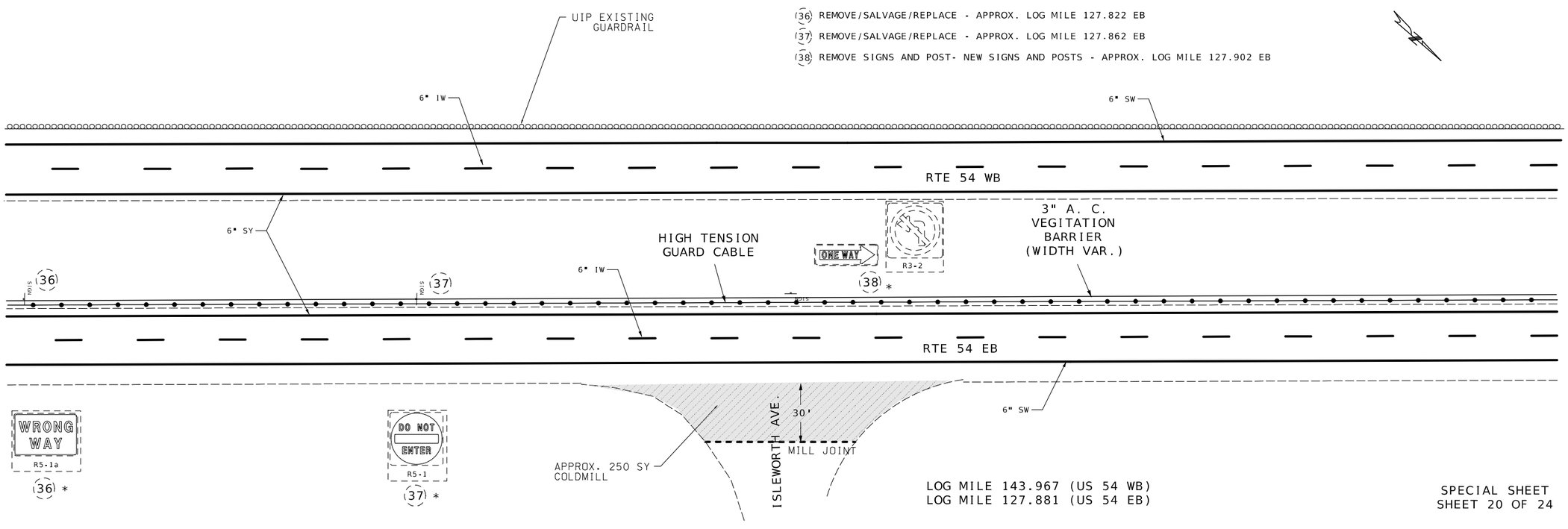


* NOTE:

(36) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 127.822 EB

(37) REMOVE/SALVAGE/REPLACE - APPROX. LOG MILE 127.862 EB

(38) REMOVE SIGNS AND POST- NEW SIGNS AND POSTS - APPROX. LOG MILE 127.902 EB



SPECIAL SHEET
SHEET 20 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

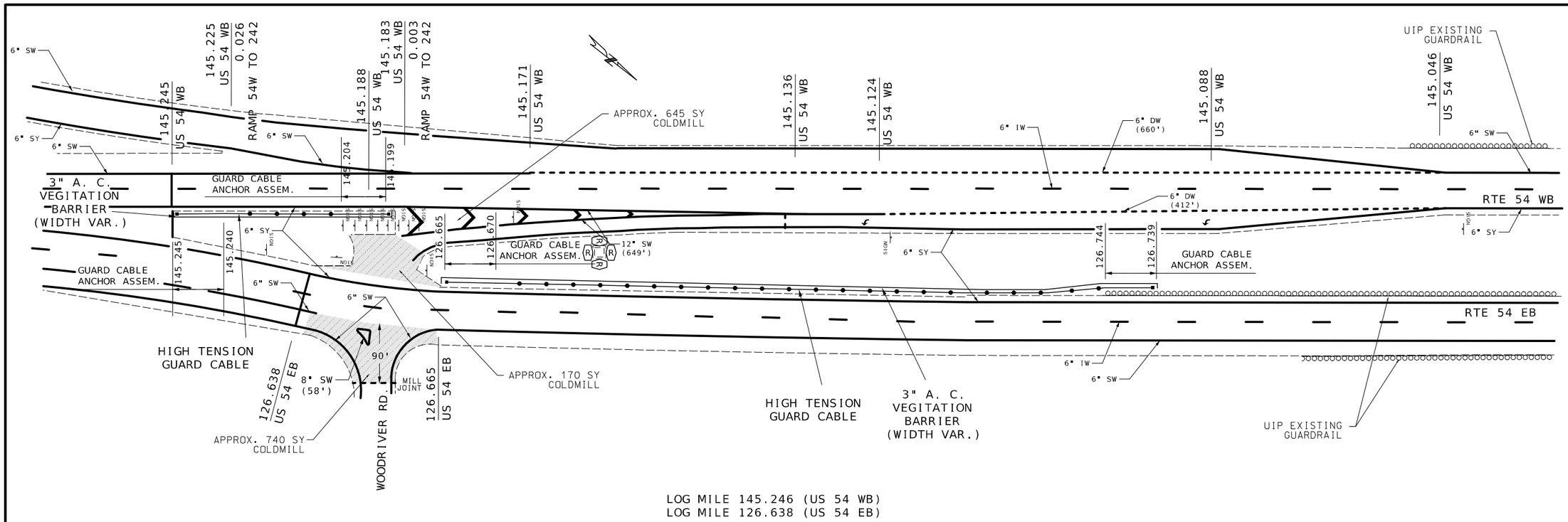
08/05/2024 1:31:48 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	27
COUNTY	MILLER
JOB NO.	J5P3500
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

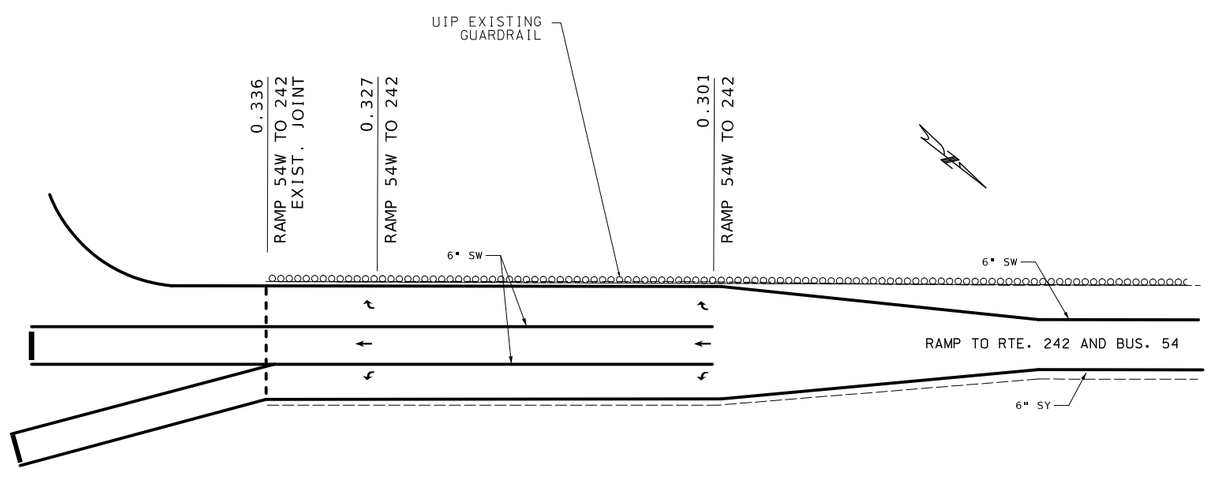
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



LOG MILE 145.246 (US 54 WB)
LOG MILE 126.638 (US 54 EB)



LOG MILE 0.312 (RAMP US 54 W TO MO 242 W)

NOT TO SCALE

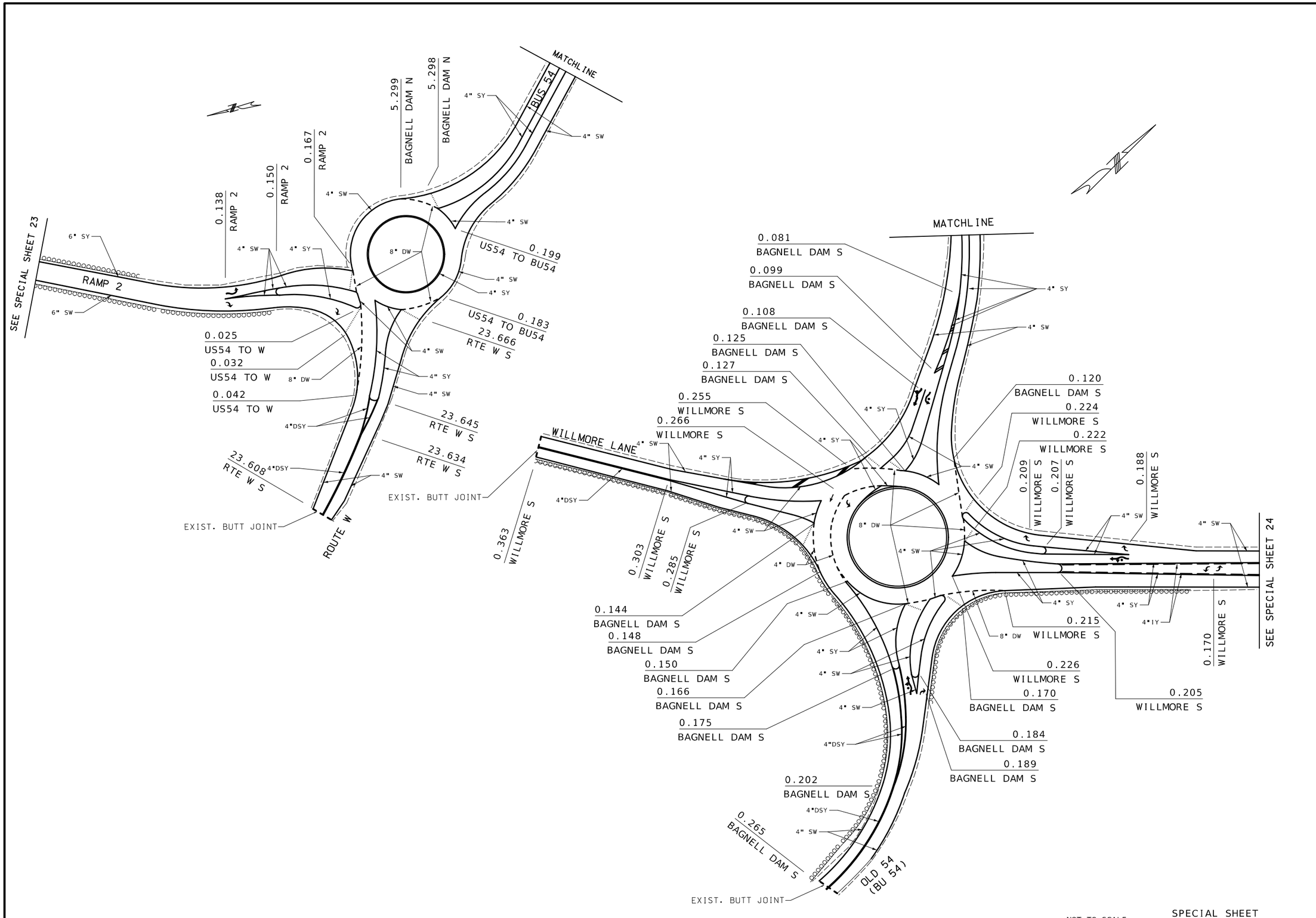
SPECIAL SHEET
SHEET 22 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:32:07 PM
RYAN.JOSEPH.LIBBERT-CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	29
COUNTY	MILLER
JOB NO.	J5P3500
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)



NOT TO SCALE

SPECIAL SHEET
SHEET 23 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

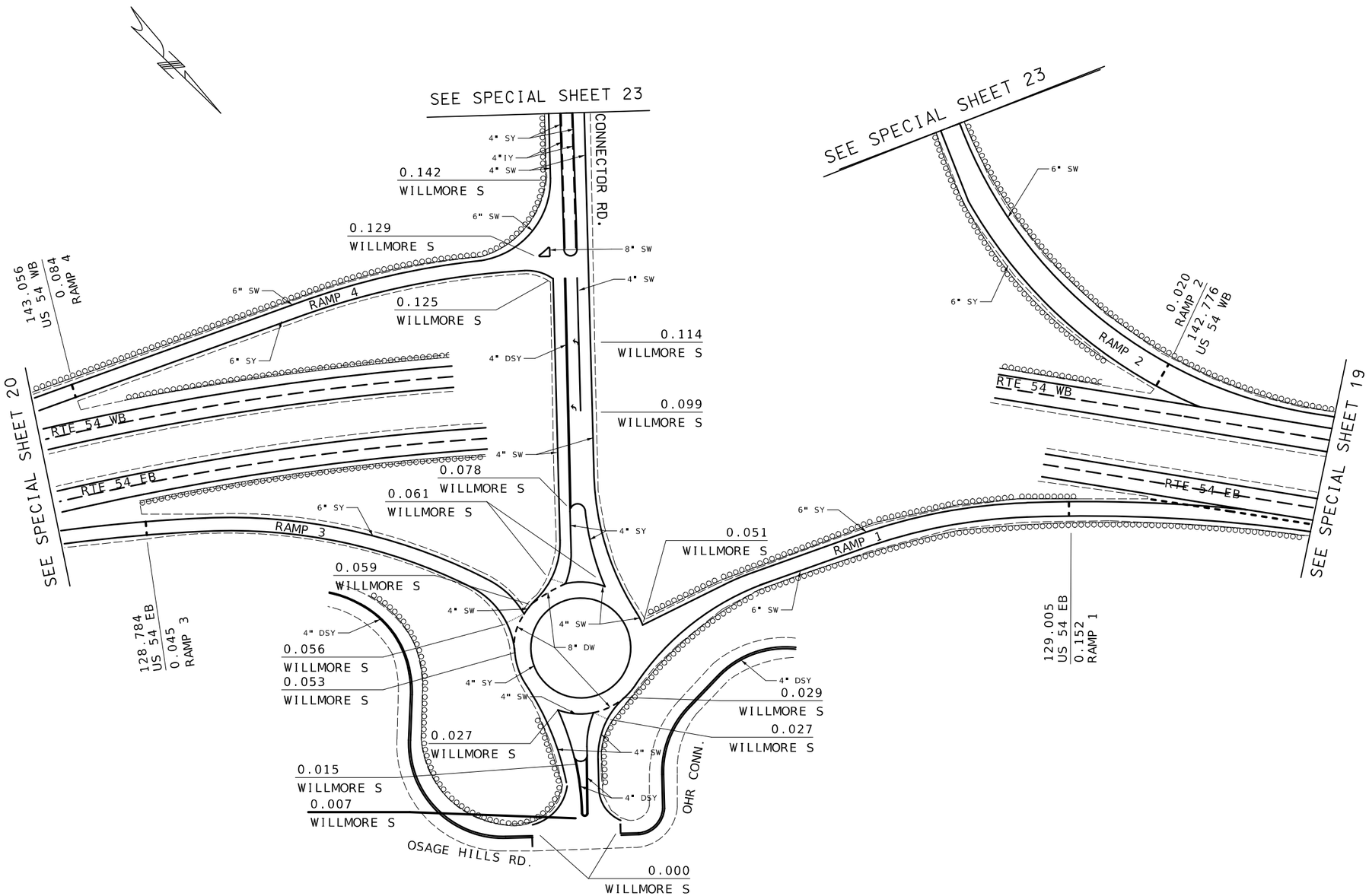
08/05/2024 1:32:22 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 30
COUNTY MILLER	
JOB NO. J5P3500	
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)



NOT TO SCALE

SPECIAL SHEET
SHEET 24 OF 24

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER

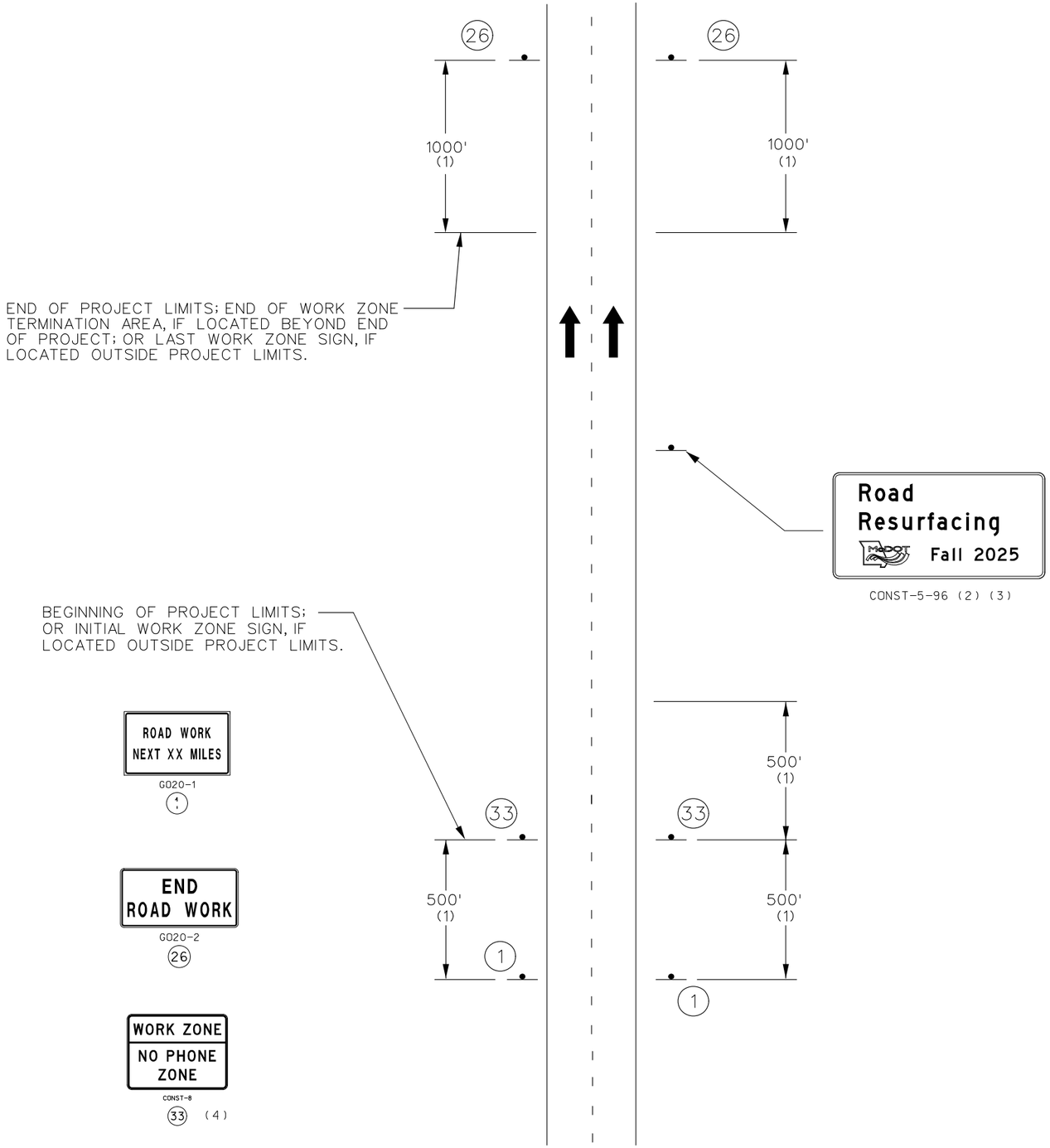
08/05/2024 1:32:40 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	31
COUNTY	MILLER
JOB NO.	J5P3500
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)



MULTI-LANE DIVIDED
BEGIN/END OF PROJECT SIGNING

NOTES:

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

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

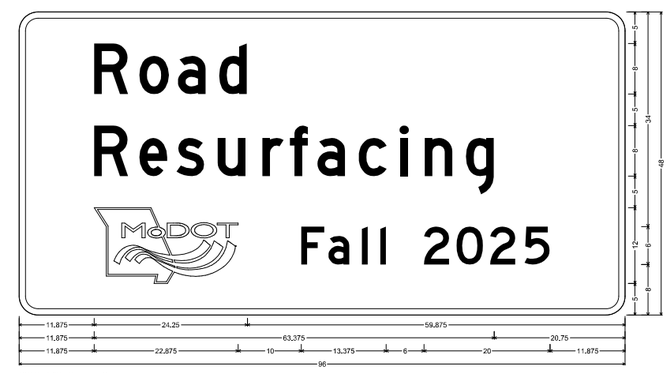
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

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

(2) SIGN CONST-5-96 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 OR CONST-7-48.

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

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



CONST-5-96 SHEET:
3.000" Radius, 1.000" Border, White on, Blue:
"Road", D: "Resurfacing", D: "Fall 2025", D:
Table of letter and object lefts

R	o	a	d
11.875	19.000	25.125	31.750

R	e	s	u	r	f	a	c	i	n	g	
11.875	19.000	24.875	31.500	38.500	42.875	47.250	53.750	60.375	64.250	70.750	

2	F	a	l	l	2	0	2	5			
11.875	44.750	48.000	54.250	57.250	64.125	69.250	74.625	80.125			

TEMPORARY TRAFFIC CONTROL SHEET
BEGIN / END PROJECT
MULTI-LANE DIVIDED
SHEET 1 OF 12

STATE OF MISSOURI
RYAN JOSEPH UBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:57:23 PM
RYAN JOSEPH UBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 32
COUNTY MILLER	
JOB NO. J5P3500	
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)

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200′	200′
40-45	350′	500′
50-55	500′	1000′
60-70	1000′	SA - 1000′ SB - 1500′ SC - 2640′

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			
	10′	11′	12′	END TREATMENT (4)
<40	160′	168′	176′	BARRIER HEIGHT TRANSITION
>40	160′	168′	350′	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3) (T2)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10′ SHOULDER (T1)	BUFFER LENGTH FT. (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′✳✳

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

NOTES:

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

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS ND VISIBILTY.

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

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

(5) DISTANCE PLACED BEFORE THE FEATURE REQUIRING ATTENTION (e.g. MERGE, LANE SHIFT, REDUCED SPEED).

(6) SPACING MAY NEED TO BE ADJUSTED IF TEMPORARY RUMBLE STRIPS ARE SLIDING OR MOVING.

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

LONG-TERM RUMBLE STRIPS		
PERMANENT POSTED SPEED (MPH)	DISTANCE (FT) (5)	SPACING (FT) (6)
0-45 (OPTIONAL)	120	10-12
50-55	160	10-12
60-70	200	10-12

RECOMMENDED MAX SPEED REDUCTIONS	
CONSTRUCTION ACTIVITY LOCATION	SPEED REDUCTION
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10 FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTI-LANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.	

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKER
- MOVABLE BARRICADE (PLAN VIEW)
- CHANGEABLE MESSAGE BOARD
- TRAFFIC BARRIER (PLAN VIEW)
- TRAFFIC BARRIER (SECTION VIEW)
- HIGH-LEVEL WARNING DEVICE (FLAG TREE)
- OR SHORT -TERM OR LONG-TERM RUMBLE STRIPS
- WORK SPACE
- ADVANCE WARNING RAIL SYSTEM
- FLASHING ARROW PANEL
- FLASHING ELECTRIC LIGHT
- IMPACT ATTENUATOR ARRAY (SAND BARRELS)
- MOVABLE BARRICADE (SIDE VIEW)
- OBJECT MARKER - TYPE I
- OBJECT MARKER - TYPE II
- OBJECT MARKER - TYPE III
- LUMINAIRE
- TMA - TRUCK MOUNTED ATTENUATOR
- CRASH CUSHION
- TRAFFIC OR PEDESTRIAN SIGNAL

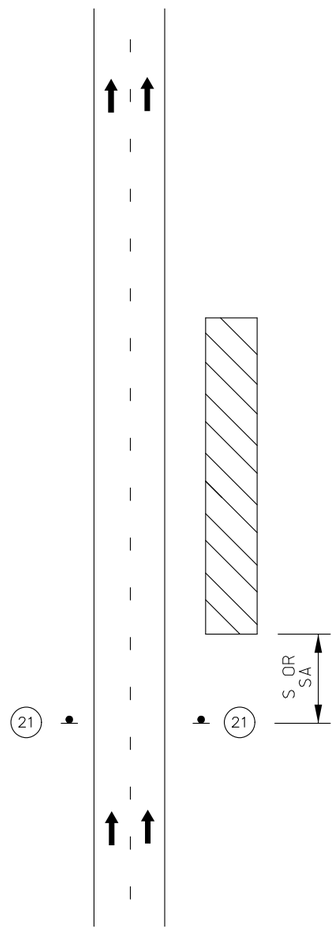
TEMPORARY TRAFFIC CONTROL SHEET
SPACING AND TAPER LENGTHS FOR
WORK ZONES, CHANNELIZERS AND
CONCRETE BARRIER
TRAFFIC CONTROL LEGEND
SHEET 2 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:57:14 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 33
COUNTY MILLER
JOB NO. J5P3500
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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



WORK BEYOND SHOULDER

NOTES:

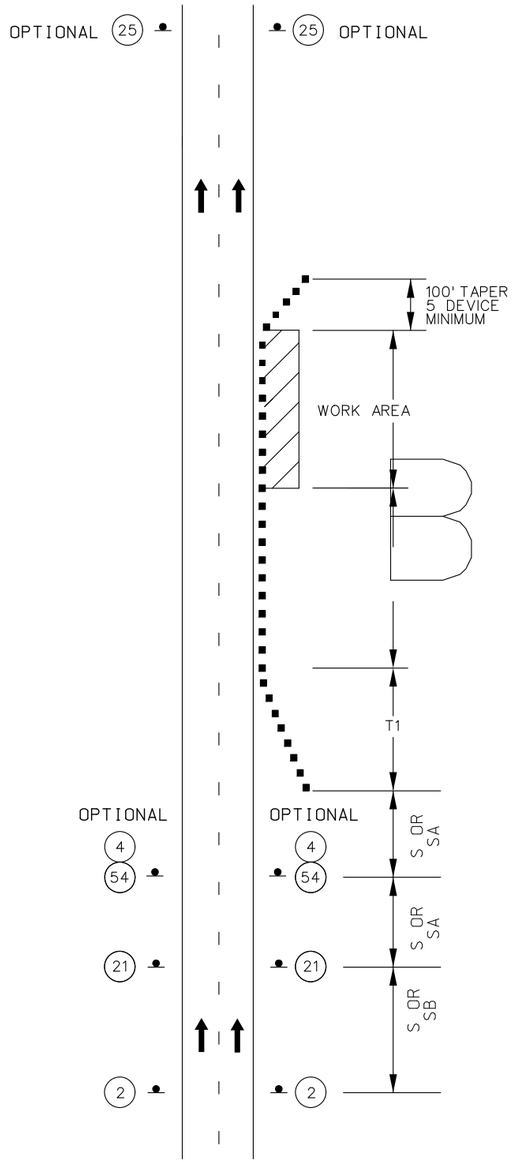
ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

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

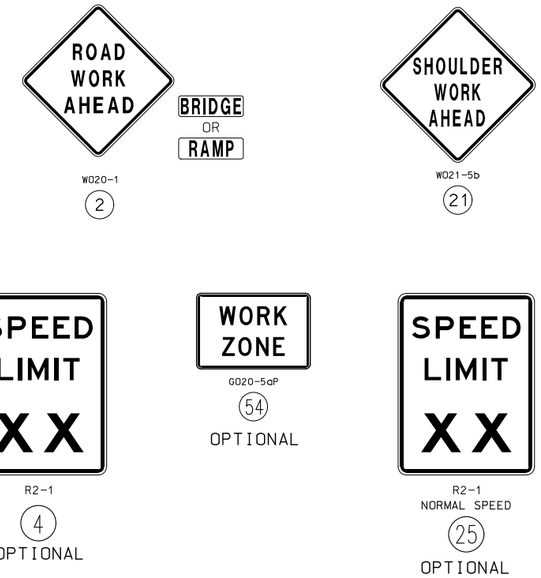
SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

ON MULTI-LANE, DIVIDED HIGHWAYS SIGNS ADVISING OF SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.

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



WORK ON THE SHOULDER ON DIVIDED AND UNDIVIDED HIGHWAYS



NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

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

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

PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.

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

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

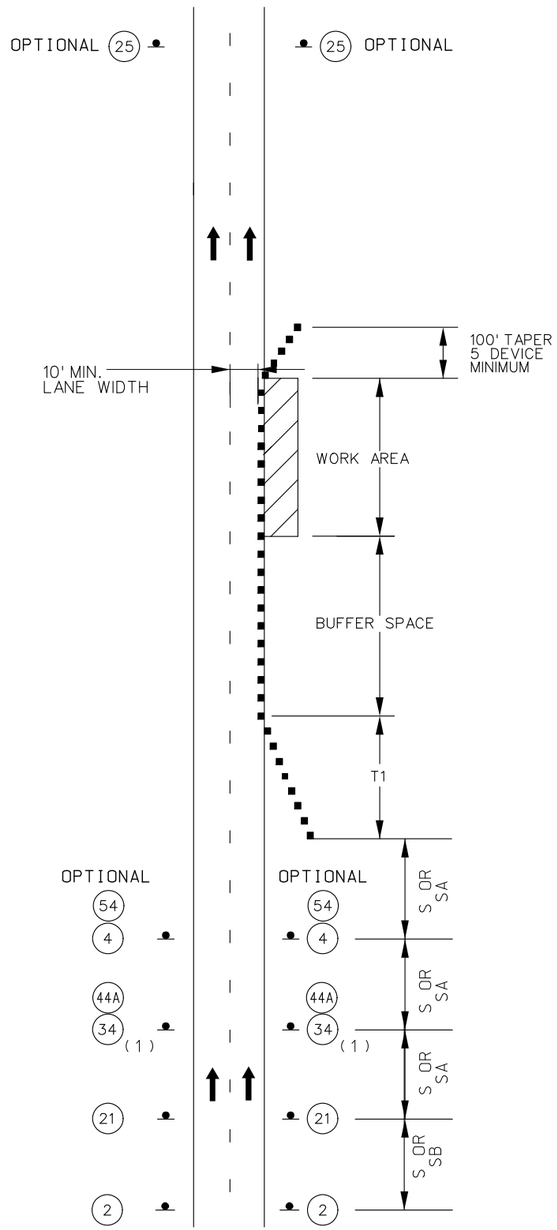
TRAFFIC CONTROL SHEET
WORK BEYOND SHOULDER
SHOULDER WORK
SHEET 3 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:57:06 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

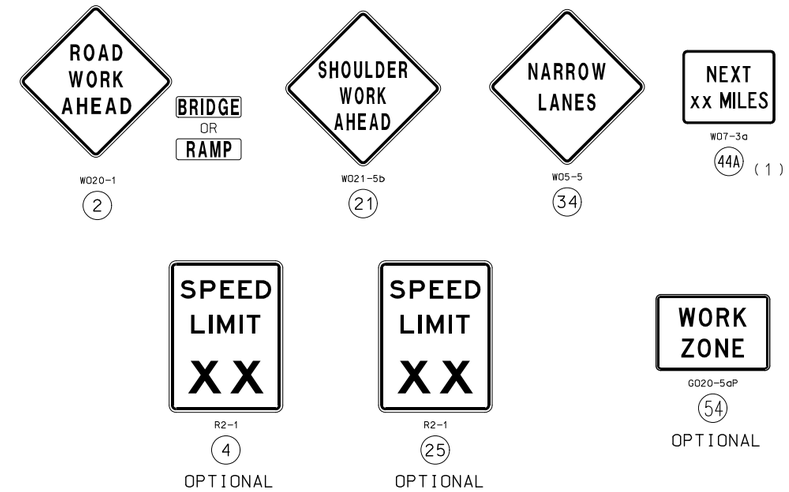
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 34
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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



MULTI-LANE DIVIDED
SHOULDER WORK
MINOR TRAVELWAY ENCROACHMENT



NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORKZONE SPEED LIMIT GUIDELINES.

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

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

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

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

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

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

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

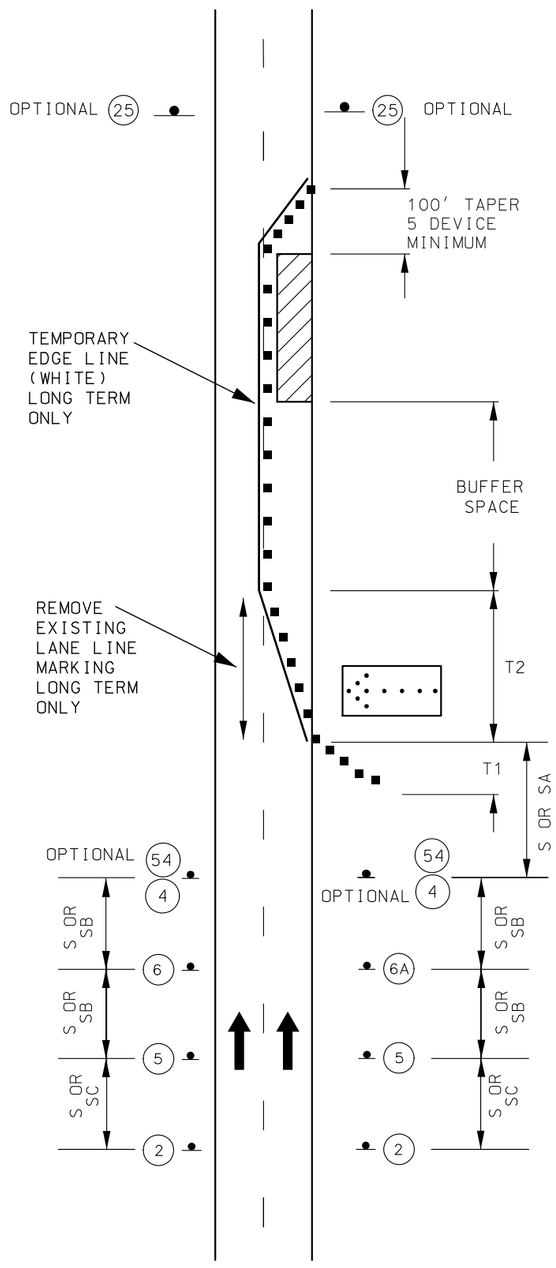
TEMPORARY TRAFFIC CONTROL SHEET
SHOULDER WORK WITH ENCROACHEMENT
ON DEVIDED HIGHWAYS
SHEET 4 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:59 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

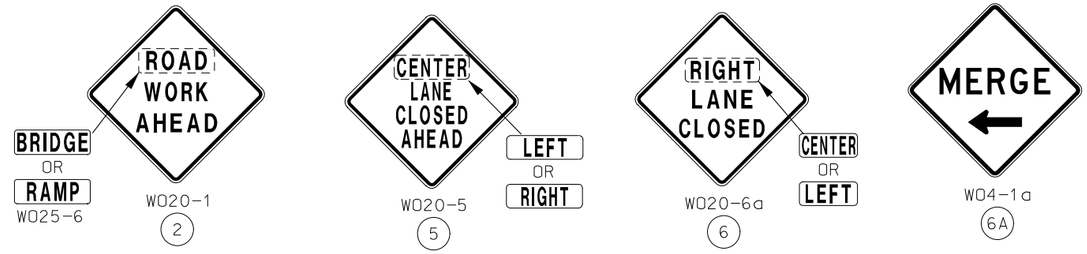
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 35
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

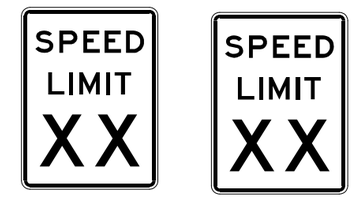
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATIONARY LANE CLOSURE
DIVIDED HIGHWAY



G020-5aP
54



R2-1
4

R2-1
NORMAL SPEED
25

OPTIONAL

NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

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

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PREFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANDE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGN SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

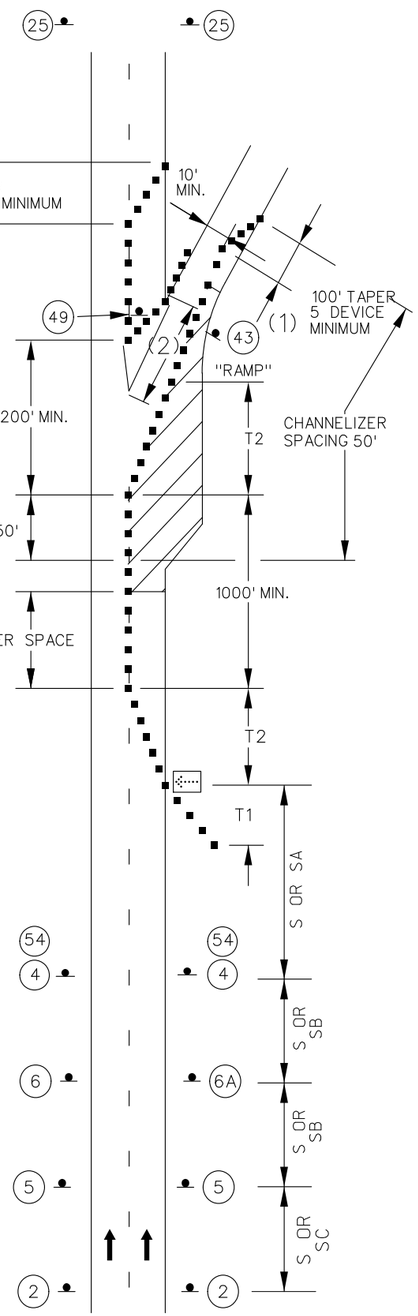
TEMPORARY TRAFFIC CONTROL SHEET
STATIONARY LANE CLOSURE
ON DIVIDED HIGHWAY
SHEET 5 OF 12

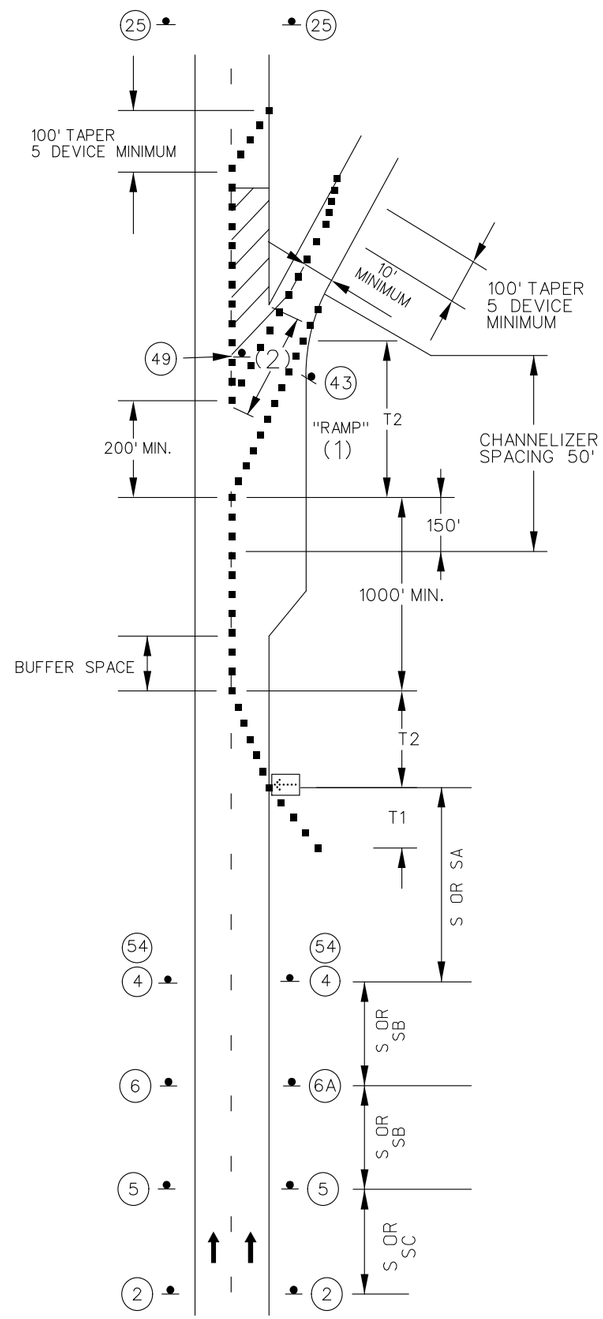
STATE OF MISSOURI
RYAN JOSEPH UBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:50 PM
RYAN JOSEPH UBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	36
COUNTY	MILLER
JOB NO.	J5P3500
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

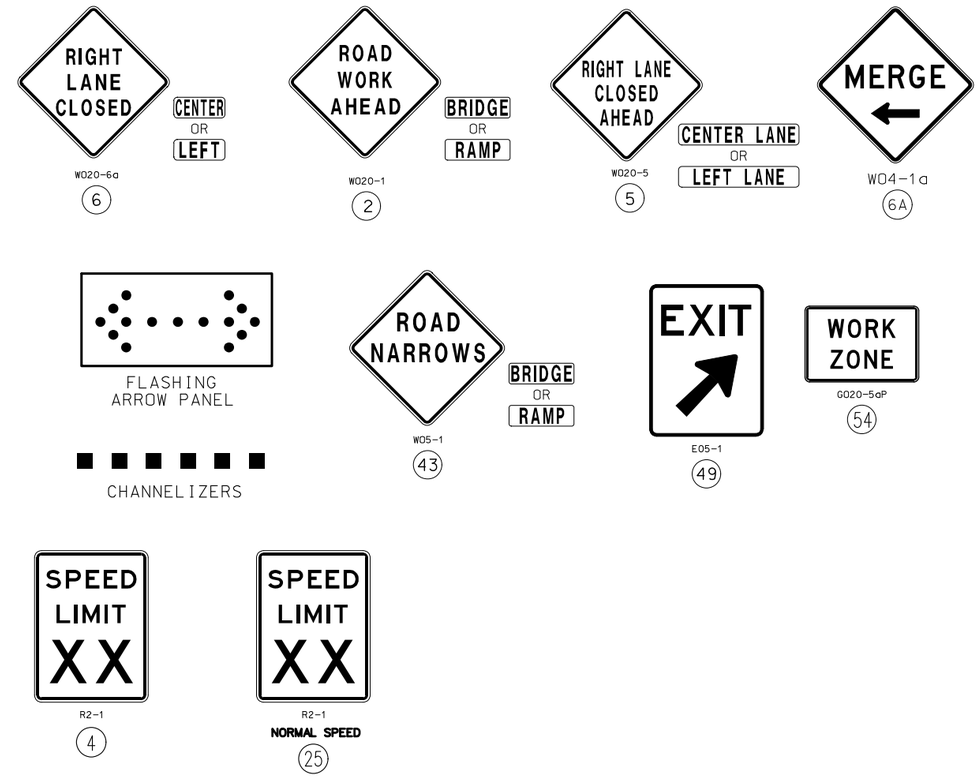
DATE	DESCRIPTION

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





WORK IN THE VICINITY
OF A EXIT RAMP AREAS



NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

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

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

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

(2). FIVE CHANNELIZER DEVICE MINIMUM.

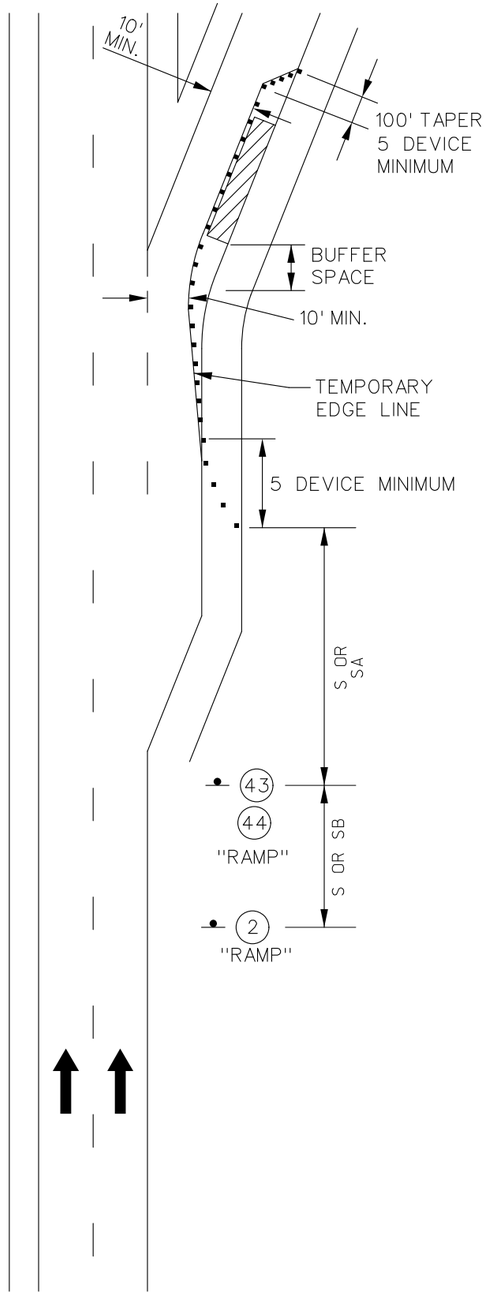
TEMPORARY TRAFFIC CONTROL SHEET
WORK IN VICINITY
OF EXIT RAMP
SHEET 6 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:42 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 37
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

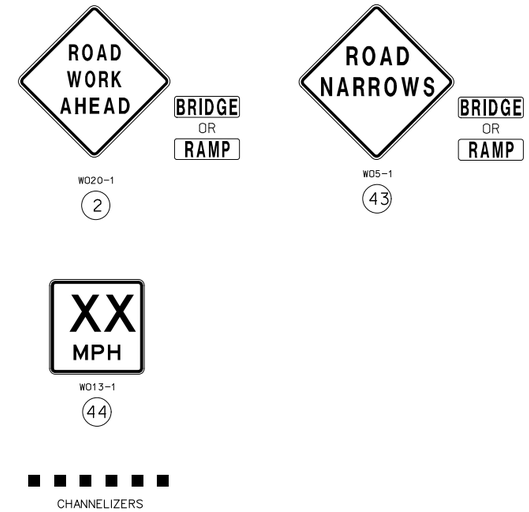
DATE	DESCRIPTION

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



PARTIAL LANE

LANE CLOSURE
PARTIAL RAMP CLOSURE



NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

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

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

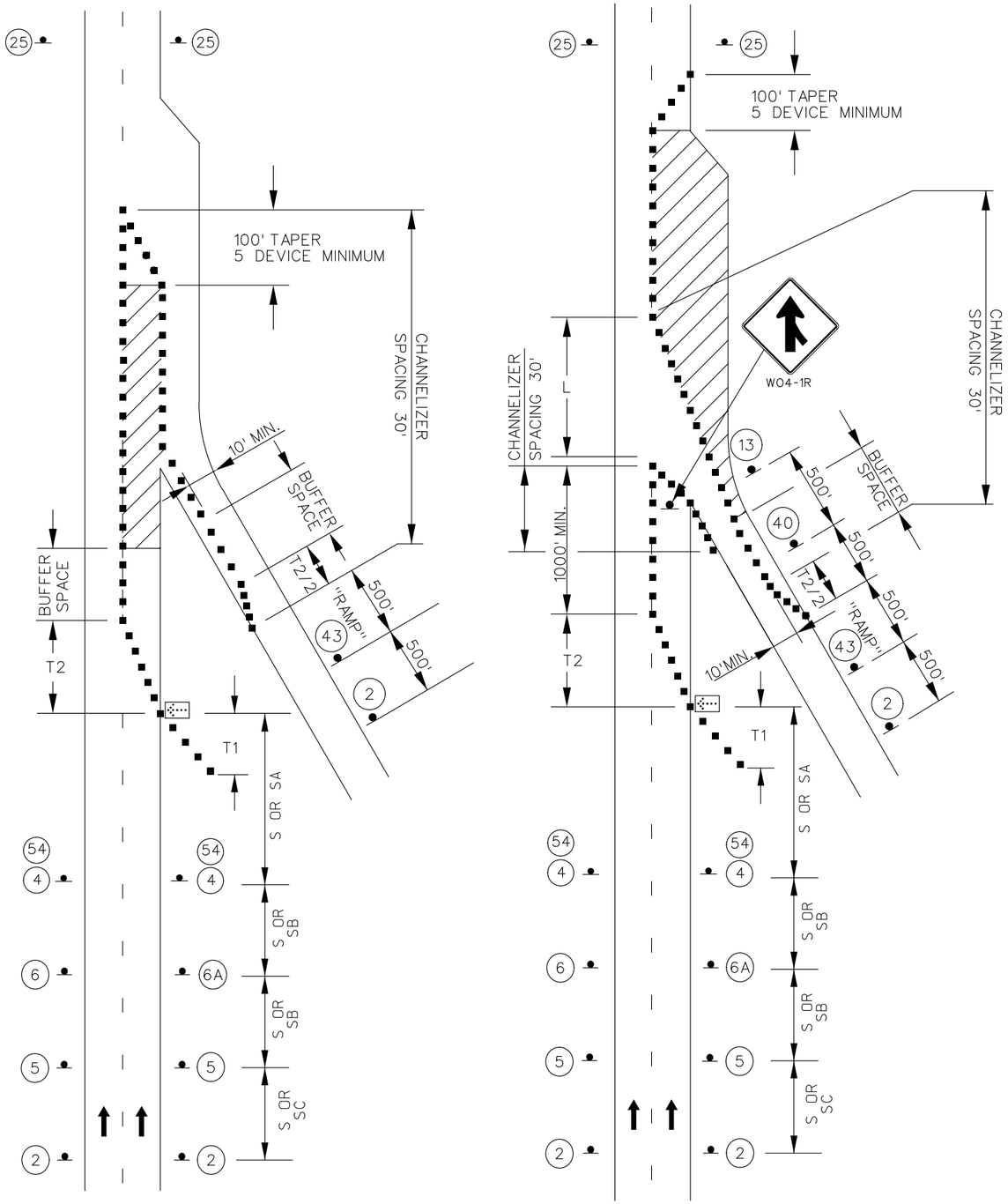
TEMPORARY TRAFFIC CONTROL SHEET
PARTIAL CLOSURE
EXIT RAMP
SHEET 7 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:33 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

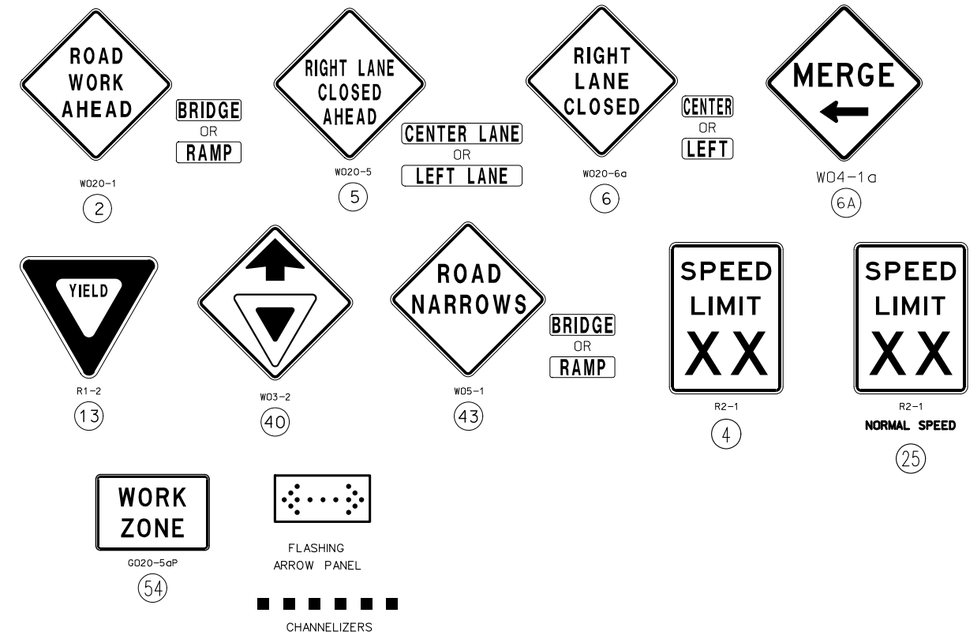
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 38
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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



LANE CLOSURE
ENTRANCE RAMP AREAS



NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

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

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YEILD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC. WHERE INADEQUATE ACCELERATION DISTANCE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN SHALL BE REPLACED WITH STOP SIGNS (ONE EACH SIDE OF THE APPROACH).

THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

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

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

TEMPORARY TRAFFIC CONTROL SHEET
WORK IN VICINITY OF
ENTRANCE RAMP
SHEET 8 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:24 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

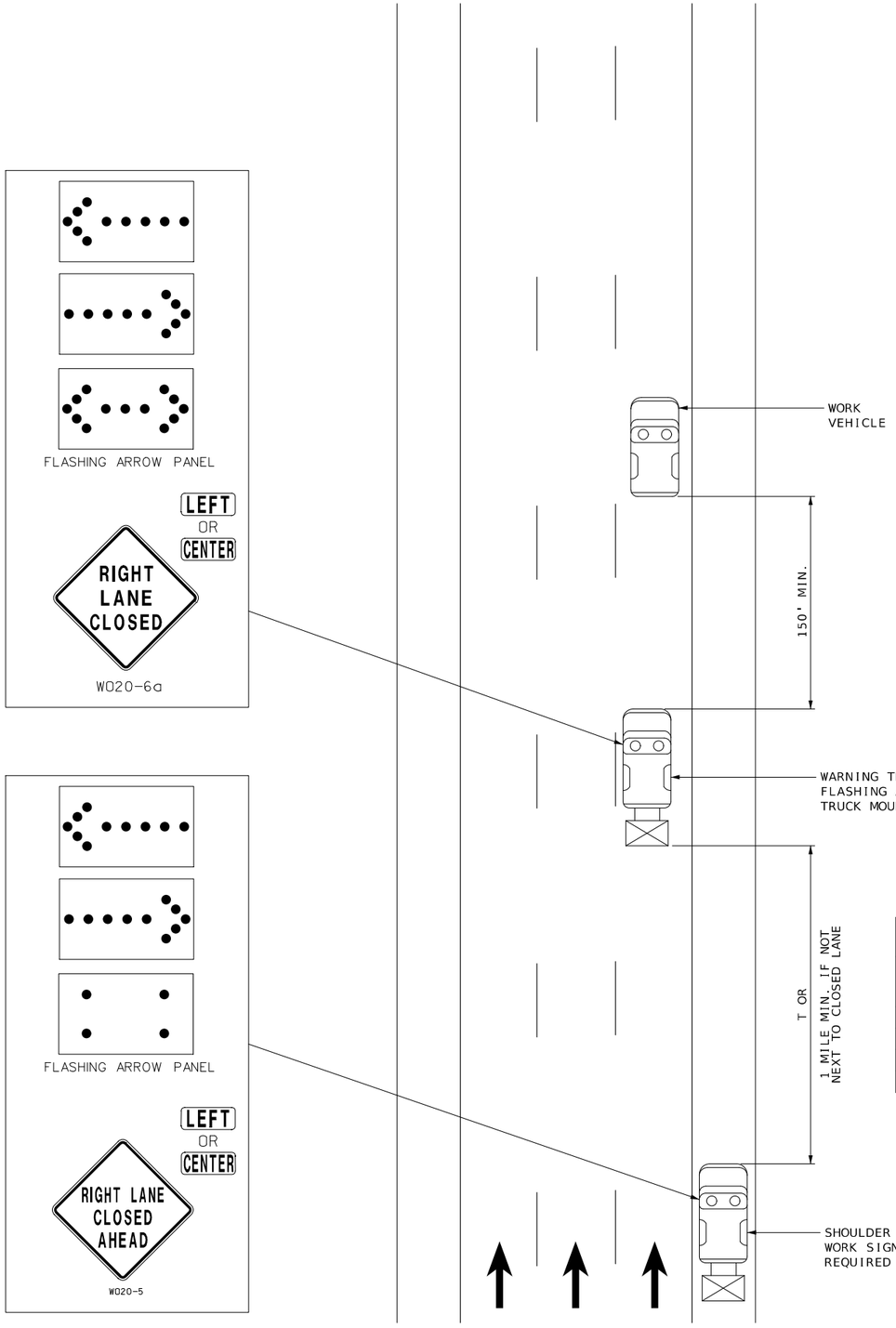
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 39
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

01/2023

NOT TO SCALE



SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

MOBILE ON MULTI-LANE HIGHWAY

NOTES:

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

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

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

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

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

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 2 FOR SIGN SPACING, DEVICE SPACING CHANNELIZING TAPER LENGTHS.

TEMPORARY TRAFFIC CONTROL
MOBILE ON MULTI-LANE HIGHWAY
SHEET 9 OF 12

STATE OF MISSOURI
RYAN JOSEPH UBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:14 PM
RYAN JOSEPH UBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED
8/5/2024

ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
CD	40

COUNTY
MILLER

JOB NO.
J5P3500

CONTRACT ID.

PROJECT NO.

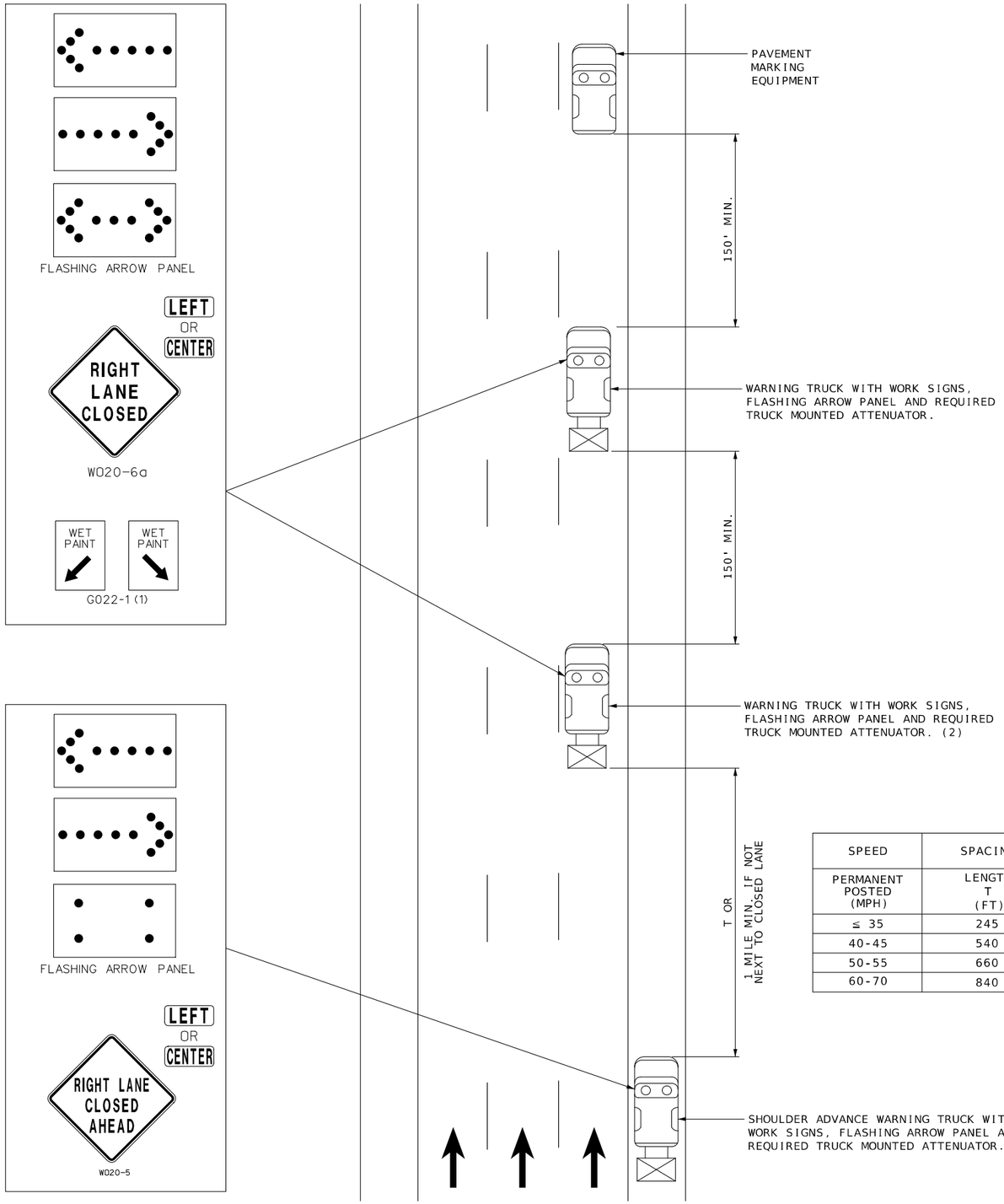
BRIDGE NO.

DESCRIPTION	DATE

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

01/2023

NOT TO SCALE



SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

STRIPING ON MULTI-LANE HIGHWAY

NOTES:

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

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

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

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

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

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

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

(2) WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR SPACING SHOWN, WHICH EVER IS GREATER.

SEE TRAFFIC CONTROL SHEET 2 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 2 FOR SIGN SPACING, DEVICE SPACING CHANNELIZING TAPER LENGTHS.

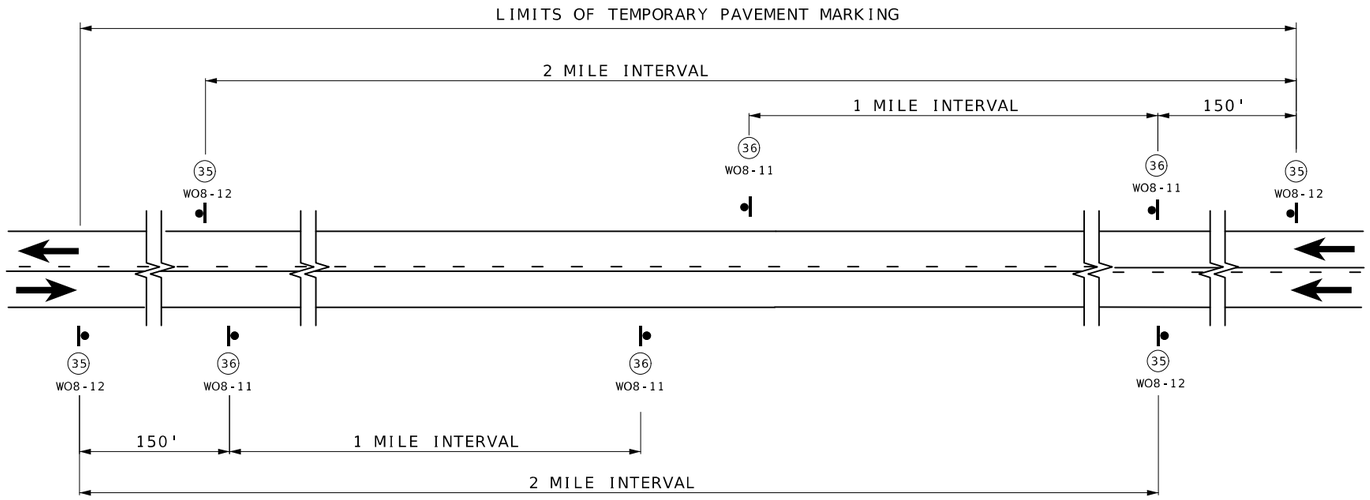
TEMPORARY TRAFFIC CONTROL
STRIPING ON MULTI-LANE HIGHWAY
SHEET 10 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:56:05 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

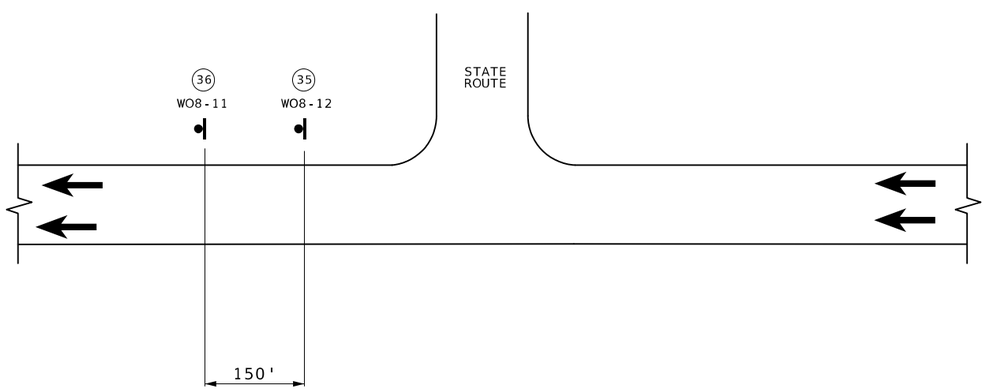
DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 41
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

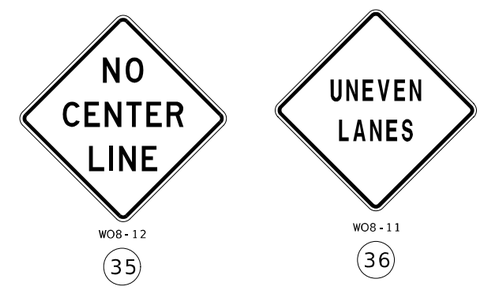
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE



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

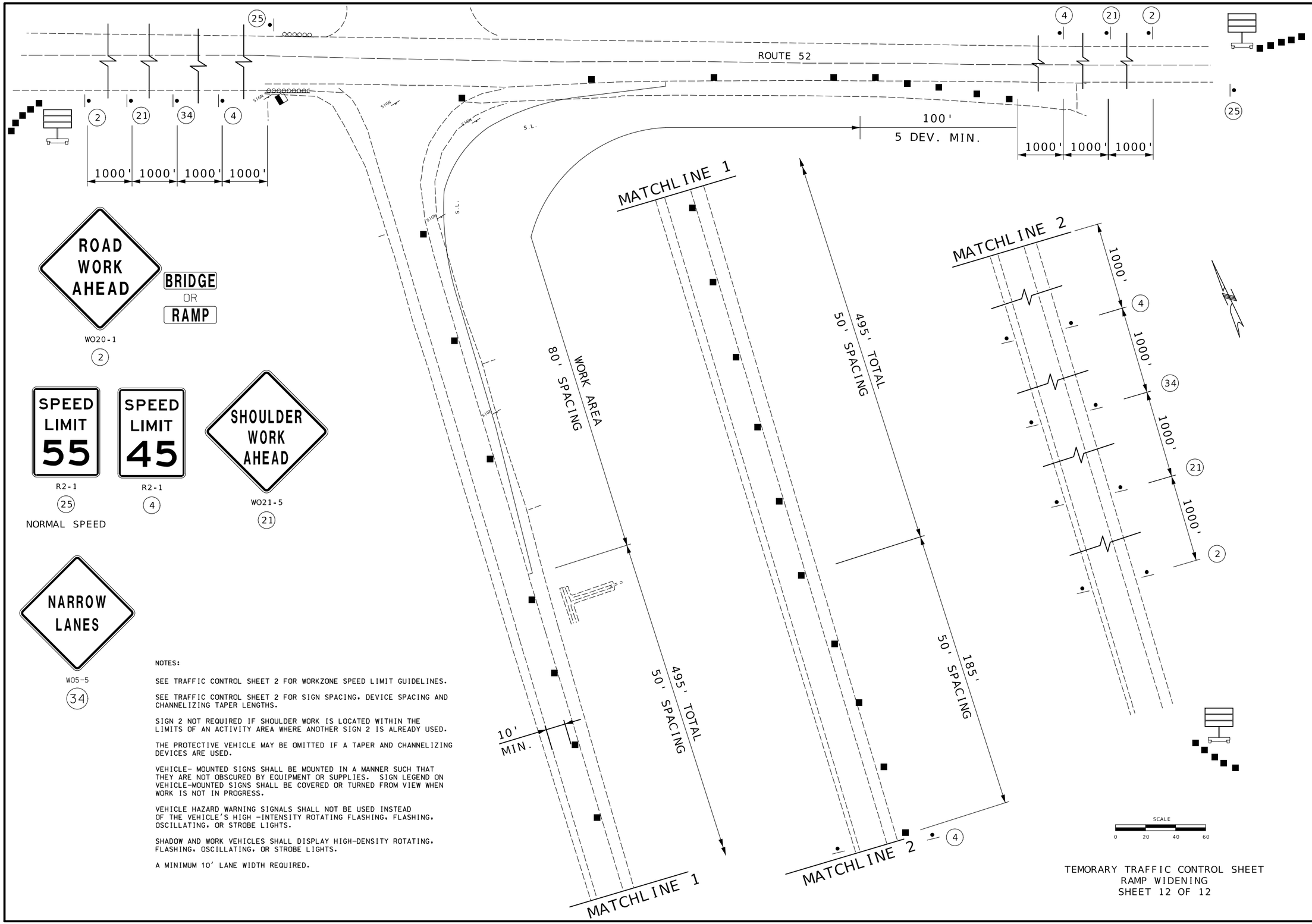
TRAFFIC CONTROL
SHEET 11 OF 12

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER
PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:55:57 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 42
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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



NOTES:

SEE TRAFFIC CONTROL SHEET 2 FOR WORKZONE SPEED LIMIT GUIDELINES.

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

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

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

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

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

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

A MINIMUM 10' LANE WIDTH REQUIRED.

TEMORARY TRAFFIC CONTROL SHEET
RAMP WIDENING
SHEET 12 OF 12

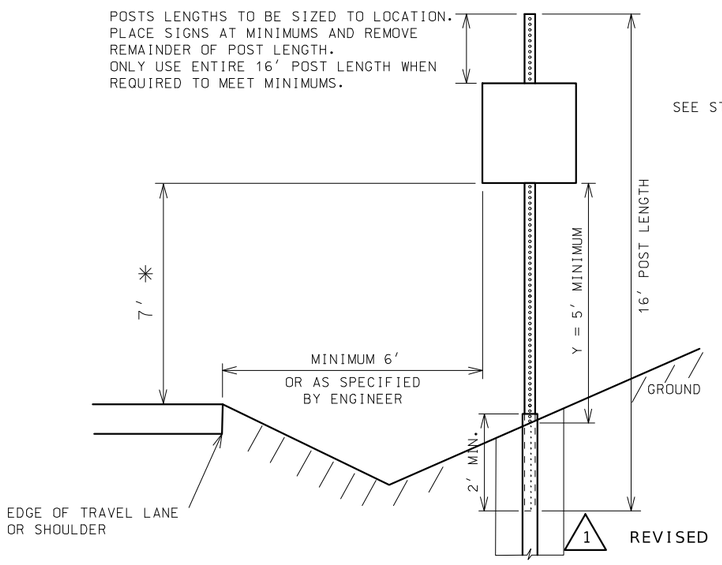
STATE OF MISSOURI
RYAN JOSEPH UBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
08/05/2024 1:54:36 PM
RYAN JOSEPH UBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	8/5/2024
ROUTE	54
STATE	MO
DISTRICT	CD
SHEET NO.	43
COUNTY	MILLER
JOB NO.	J5P3500
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)

MOUNTING HEIGHT DETAIL



SEE STANDARD PLANS 903.03 FOR INSTALLATION DETAILS

POSTS – 12 GAUGE – 2.5″ X 2.5″

ANCHORS – 7 GAUGE – 3″ X 3″ O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT
USE REQUIRED FOR DOUBLE POST
INSTALLATIONS ONLY

GALVANIZATION – ALL PSST POSTS, ANCHORS AND
BREAKAWAY CASTINGS SHALL BE
GALVANIZED PER MoDOT STANDARD
SPECIFICATIONS

✳ 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"

SIGNING SHEET
PSST DETAILS
SHEET 1 OF 2

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
09/05/2024 1:59:13 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED	
8/5/2024	
ROUTE 54	STATE MO
DISTRICT CD	SHEET NO. 44
COUNTY MILLER	
JOB NO. J5P3500	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

EFFECTIVE: 07-01-2024

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																							2 IN. POST						2.5 IN. POST								
																										ANCHORS						ANCHORS			BREAK-AWAY ASSEMBLY	
SIGN NO.	SIGN SIZE	LOG MILE OR STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS		IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
1	48" X 48"	148.257		54 EB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
2	42" X 30"	148.217		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
3	48" X 48"	146.697		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
4	42" X 30"	146.630		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
5	42" X 30"	126.583		54 WB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
6	48" X 48"	126.623		54 WB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
7	42" X 30"	145.746		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
8	48" X 48"	145.786		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
9	42" X 30"	129.520		54 WB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
10	42" X 30"	135.715		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
11	48" X 48"	135.759		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
12	42" X 30"	134.897		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
13	48" X 48"	134.958		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
14	42" X 30"	137.851		54 WB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
15	48" X 48"	137.911		54 WB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
16	54" X 18"	137.930		54 WB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
17	VARIOUS	138.011		54 WB LT																									16		16			1	1	REUSE EXISTING SIGNS & BACKING BARS ON NEW POST
18	42" X 30"	138.242		54 WB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
19	42" X 30"	138.715		54 WB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
20	48" X 48"	138.775		54 WB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
21	42" X 30"	139.095		54 WB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
22	VARIOUS	139.136		54 WB LT																									16	16	32			2	2	REUSE EXISTING SIGNS ON NEW POSTS
23	36" X 36"	131.918		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
24	42" X 30"	131.937		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
25	48" X 48"	131.977		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
26	54" X 18"	132.018		54 EB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
27	42" X 30"	131.718		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
28	48" X 48"	131.757		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
29	54" X 18"	131.777		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
30	42" X 30"	131.337		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
31	VARIOUS	131.356		54 EB LT																									16	16	32			2	2	REUSE EXISTING SIGNS ON NEW POSTS
32	42" X 30"	131.156		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
33	48" X 48"	131.197		54 EB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
34	54" X 18"	131.237		54 EB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
35	48" X 48"	141.557		54 WB LT																									16	16	32			2	2	NEW SIGN ON NEW POSTS
36	42" X 30"	127.822		54 EB LT																									16		16			1	1	REUSE EXISTING SIGN ON NEW POST
37	48" X 48"	127.862		54 EB LT																									16	16	32			2	2	REUSE EXISTING SIGN ON NEW POSTS
38	VARIOUS	127.902		54 EB LT																									16	16	32			2	2	NEW SIGNS ON NEW POSTS
40	18" X 24"																												16		16			1	1	REUSE EXISTING SIGN ON NEW POST
42	VARIOUS	1+88		RAMP RT.														4	50	16.66	42.5								16		16			1	1	REUSE EXISTING SIGNS FROM STA.2+47
																		2	25	4.16	10.63															PLACE ON NEW POST AND NEW BACKING BARS
43	60" X 60"	3+50		RAMP RT.																									16	16	32			2	2	NEW SIGN ON NEW POSTS
45	60" X 60"	0.139		RP54W TO 52 RT.																									16	16	32			2	2	NEW SIGN ON NEW POSTS
				SUBTOTAL																	53										1024			64	64	
				TOTAL													50				**										1024			64	64	

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EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER OR SET NUMBER	LOG MILE	LOCATION	TYPE: R5-1 (SIGN DESC., SIZES & # OF EACH)	R6-1R	R3-2		
3	146.697	RTE. 54 EB LT.	1				
8	145.786	RTE. 54 EB LT.	1				
11	135.756	RTE. 54 EB LT.	1				
13	134.958	RTE. 54 EB LT.	1				
15	137.911	RTE. 54 WB LT.	1				
25	131.977	RTE. 54 EB LT.	1				
28	131.757	RTE. 54 EB LT.	1				
29	131.777	RTE. 54 EB LT.		1			
33	131.197	RTE. 54 EB LT.	1				
35	141.557	RTE. 54 WB LT.	1				
38	127.902	RTE. 54 EB LT.		1	1		
43	3+50	RAMP RT.				1	
45	0.139	RP54W TO 52 RT.				1	

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQ. FT. SIZE	FLAT SHEET SHF ITEM NO. 9035004A
R5-1	STD.	9	4'X4'	144
R6-1R	STD.	2	4.5'X1.5'	13.5
R3-2	STD.	1	4'X4'	16
R1-2	STD.	2	5'X5'	25
			TOTAL	199

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* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

SIGNING SHEET
SHEET 2 OF 2

STATE OF MISSOURI
RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
09/05/2024 1:59:01 PM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

DATE PREPARED 8/5/2024
ROUTE 54 | STATE MO
DISTRICT CD | SHEET NO. 45
COUNTY MILLER
JOB NO. J5P3500
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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105 WEST CAPITOL
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