

DESIGN DESIGNATION

W/O LONG BRANCH LAKE RD.
A.A.D.T. - 2024 = 11,483
A.A.D.T. - 2044 = 16,040
D.H.V. = 48.5%/ 51.5%
T = 27.45%
V = 65 M.P.H.
D = 7.56%

E/O LONG BRANCH LAKE RD.
A.A.D.T. - 2024 = 10,703
A.A.D.T. - 2044 = 18,217
D.H.V. = 49.5%/ 50.5%
T = 39.65%
V = 65 M.P.H.
D = 7.45%

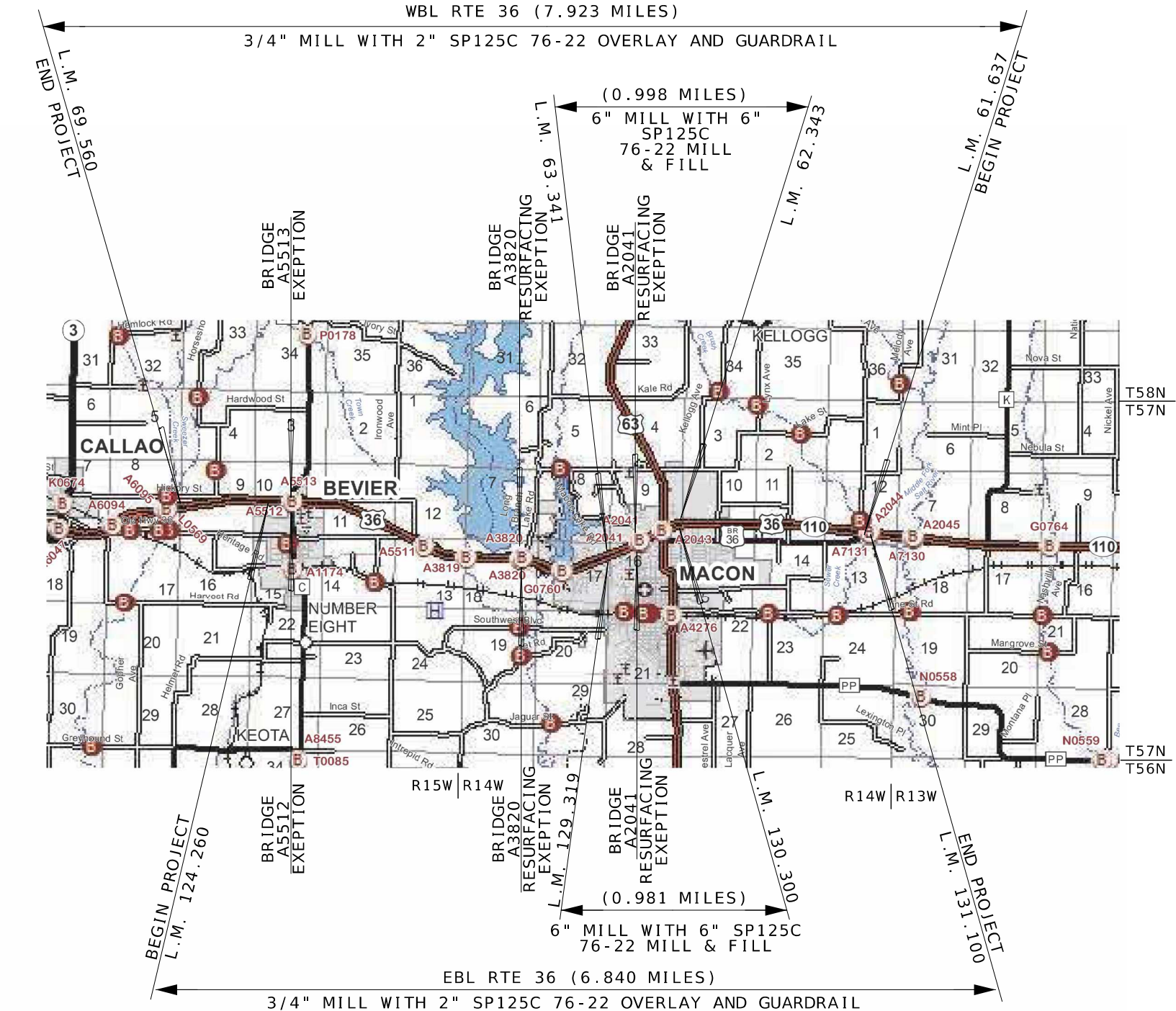
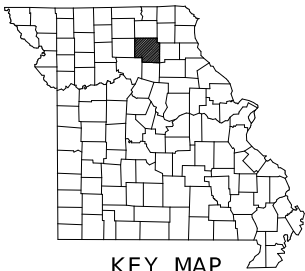
FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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



ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125C)	1.927 TON/YD ³
BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)	1.948 TON/YD ³
TACK COAT	.08 GAL/YD ²
TACK COAT (COLDMILLED AREAS)	.10 GAL/YD ²



06/17/2025 1:28:36 PM
KEITH ALLEN KILLEN - CIVIL
MO-PE-2007020292

DATE PREPARED
6/17/2025

ROUTE 36	STATE MO
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DISTRICT	SHEET NO.
NE	2

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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10/10/2010

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36 OF 110

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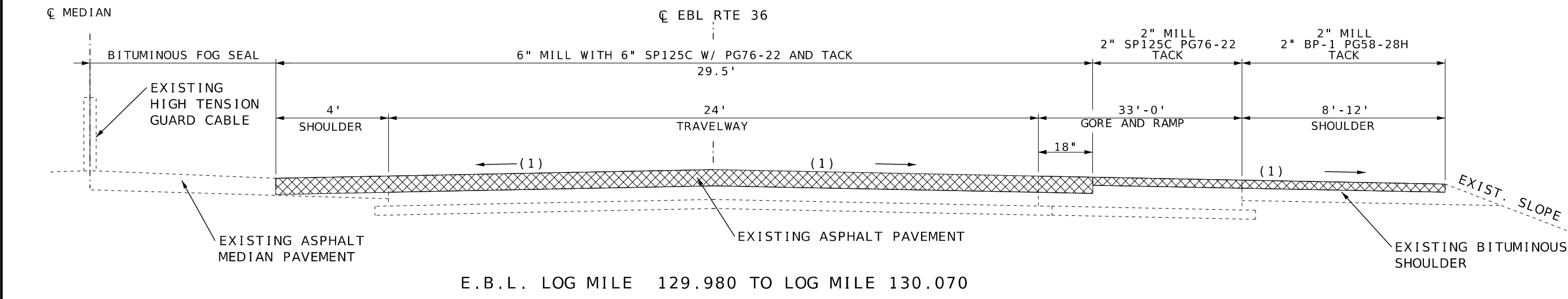
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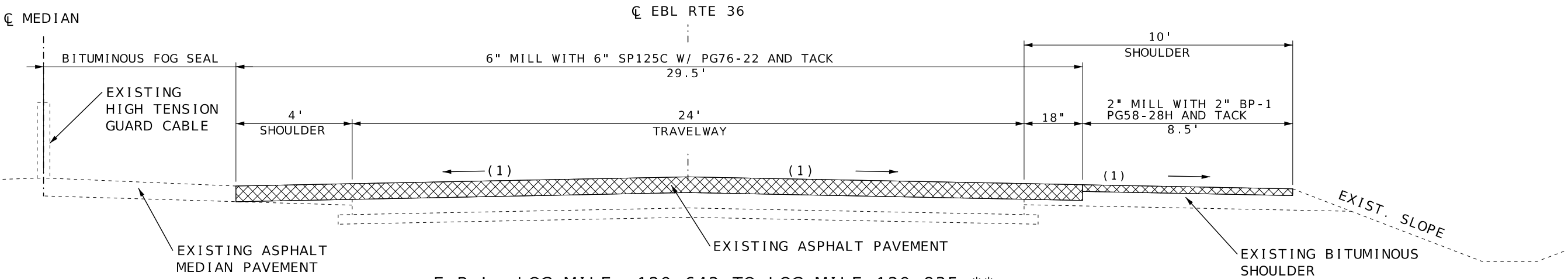


NOTE:
(1) 2% CROSS-SLOPE, SEE DETAIL C
SHEET 4 OF 10

ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125C)	1.927 TON/YD ³
BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)	1.948 TON/YD ³
TACK COAT	.08 GAL/YD ²
TACK COAT (COLDMILLED AREAS)	.10 GAL/YD ²

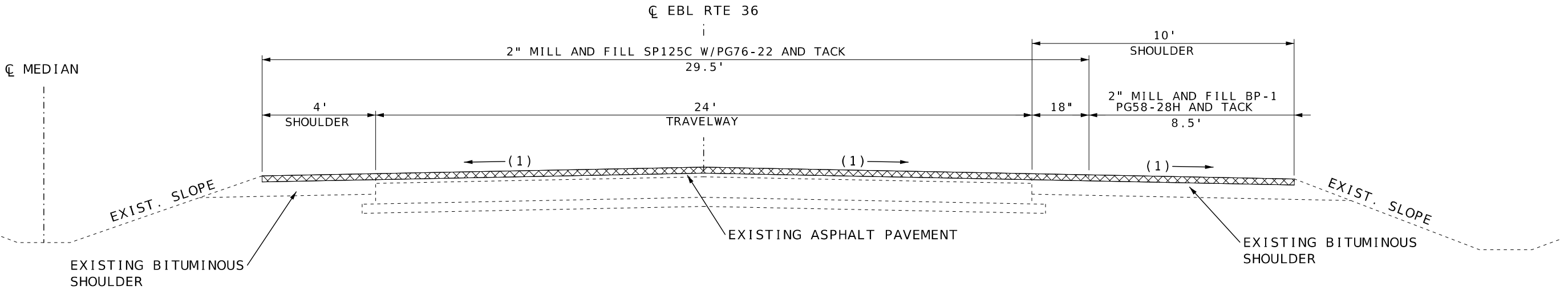


DATE PREPARED 6/17/2025	
ROUTE 36	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY MACON	
JOB NO. JNE0120	
CONTRACT ID. ####	
PROJECT NO. ####	
BRIDGE NO. ####	



E.B.L. LOG MILE 129.642 TO LOG MILE 129.835 **
E.B.L. LOG MILE 129.855 TO LOG MILE 129.980
E.B.L. LOG MILE 130.070 TO LOG MILE 130.300

** E.B.L. LOG MILE 129.835 TO 129.855 (BRIDGE A2041 EXCEPTION)



E.B.L. LOG MILE 126.660 TO LOG MILE 126.780
E.B.L. LOG MILE 130.998 TO LOG MILE 131.100 (END OF PROJECT)

DESCRIPTION	DATE

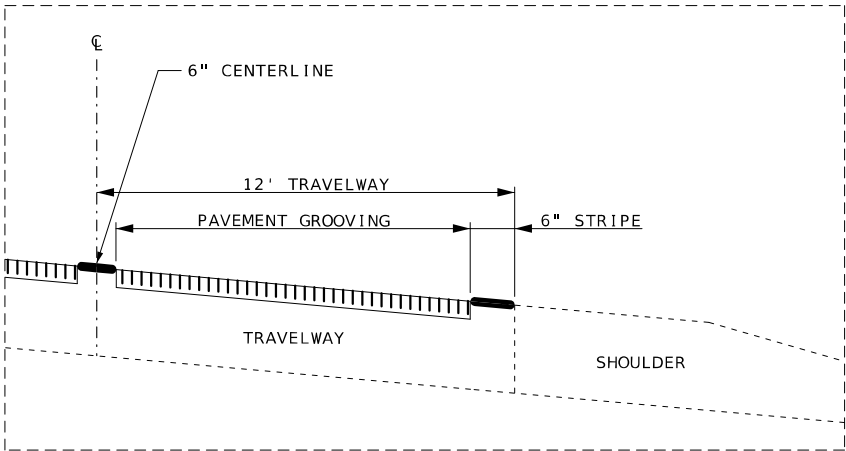
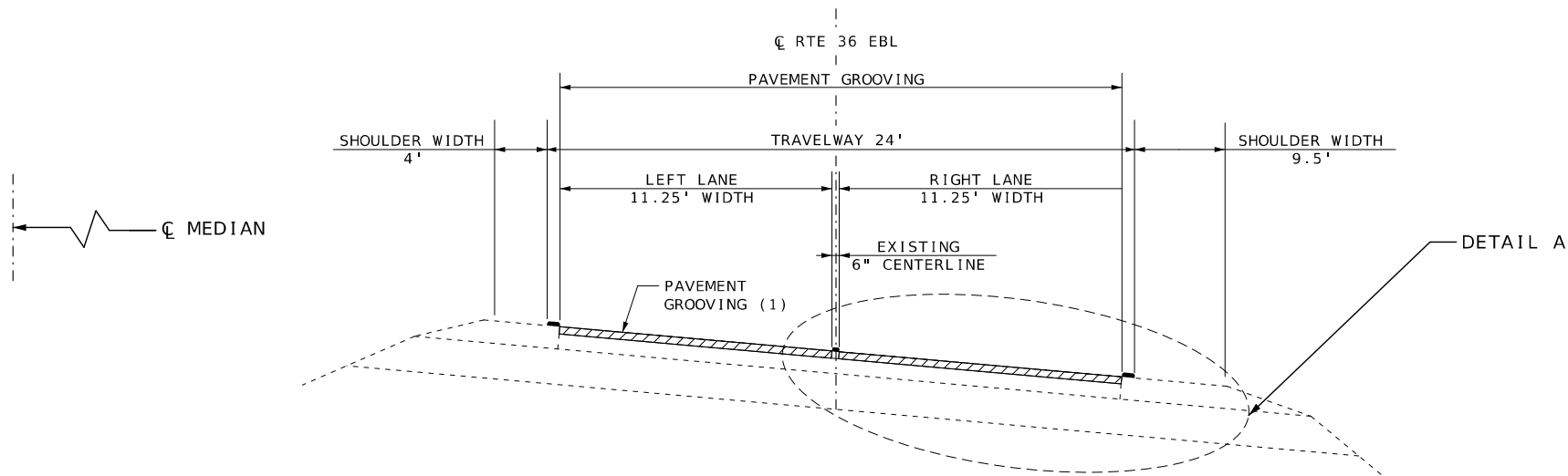
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTION SHEET
EBL RTE 36
SHEET 3 OF 10

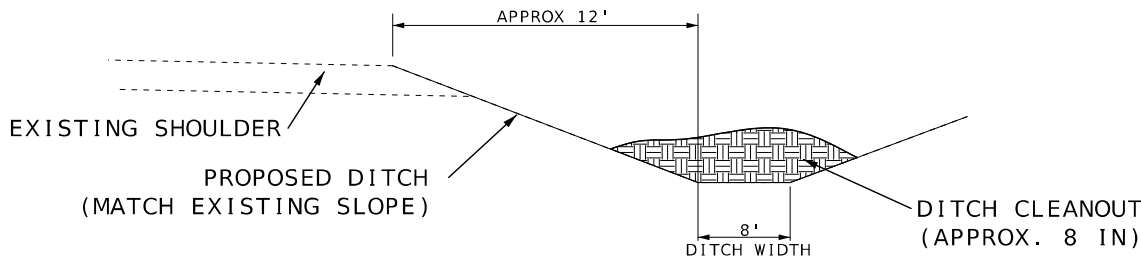
NOTE :

(1) GROOVING SHALL BE DONE BETWEEN EXISTING CENTERLINE AND EDGE LINE PAVEMENT MARKINGS, DO NOT DISTURB EX. PAVEMENT MARKINGS.



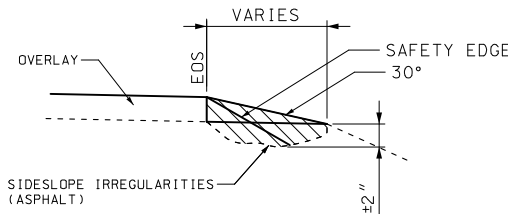
TYPICAL SECTION
PAVEMENT GROOVING
EBL 36

L.M. 128.450 TO L.M. 128.950 - 22.5' WIDTH - 6,600 SQYD



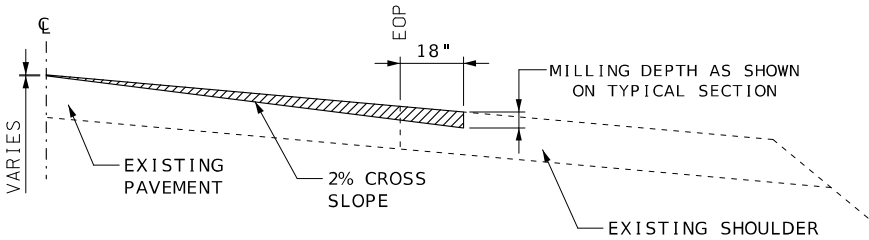
TYPICAL SECTION
LINEAR GRADING CLASS II

EBL 36 L.M. 129.939 TO L.M. 130.099
WBL 36 L.M. 62.503 TO L.M. 62.655



NOTE:
THE ASPHALT SAFETY EDGE/EDGE TREATMENT (ASPHALT) AS WELL AS THE SIDESLOPE IRREGULARITIES (ASPHALT) SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

DETAIL B
SAFETY EDGE/SIDESLOPE IRREGULARTIES



DETAIL C
TRAVELWAY COLDMILLING DETAIL



DATE PREPARED
6/17/2025 1:30:11 PM
KEITH ALLEN KELLEN - CIVIL
MO-PE-2007020292

ROUTE 36
DISTRICT NE

STATE MO
SHEET NO. 2

COUNTY MACON
JOB NO. JNE0120
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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(1) 2% CROSS-SLOPE, SEE DETAIL C
SHEET 4 OF 10

The diagram illustrates a cross-section of a pavement structure. The total width of the proposed overlay is 18 feet. This includes a 4-foot shoulder on the left and an 8-foot to 10-foot shoulder on the right. The central 18-foot section is labeled "0.75\" MILL WITH 2\" SP125C W/PG76-22 AND TACK". Below this, the existing pavement structure is shown, consisting of "TYPE 1 AGGREGATE" and "EXISTING PAVEMENT SHOULDER". Arrows indicate the direction of traffic flow: (1) to the left, (1) to the right, (1) to the right, and (1) to the right.

SAFETY EDGE

0.75" MILL WITH 2" SP125C W/PG76-22 AND TACK

BP-1 PG58-28H AND TACK

45 DEG

(2) 4' SHLDR.

18' TRAVELWAY

10' SHLDR.

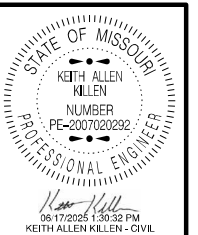
(1) (1) (1) (1)

EXISTING BITUMINOUS SHOULDER

EXISTING ASPHALT PAVEMENT

EXISTING BITUMINOUS SHOULDER

ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125C)	1.927 TON/YD ³
BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)	1.948 TON/YD ³
TACK COAT	.08 GAL/YD ²
TACK COAT (COLDMILLED AREAS)	.10 GAL/YD ²
TYPE 1 AGGREGATE	0.058 TONS/SQ YD/IN



BRIDGE NO.

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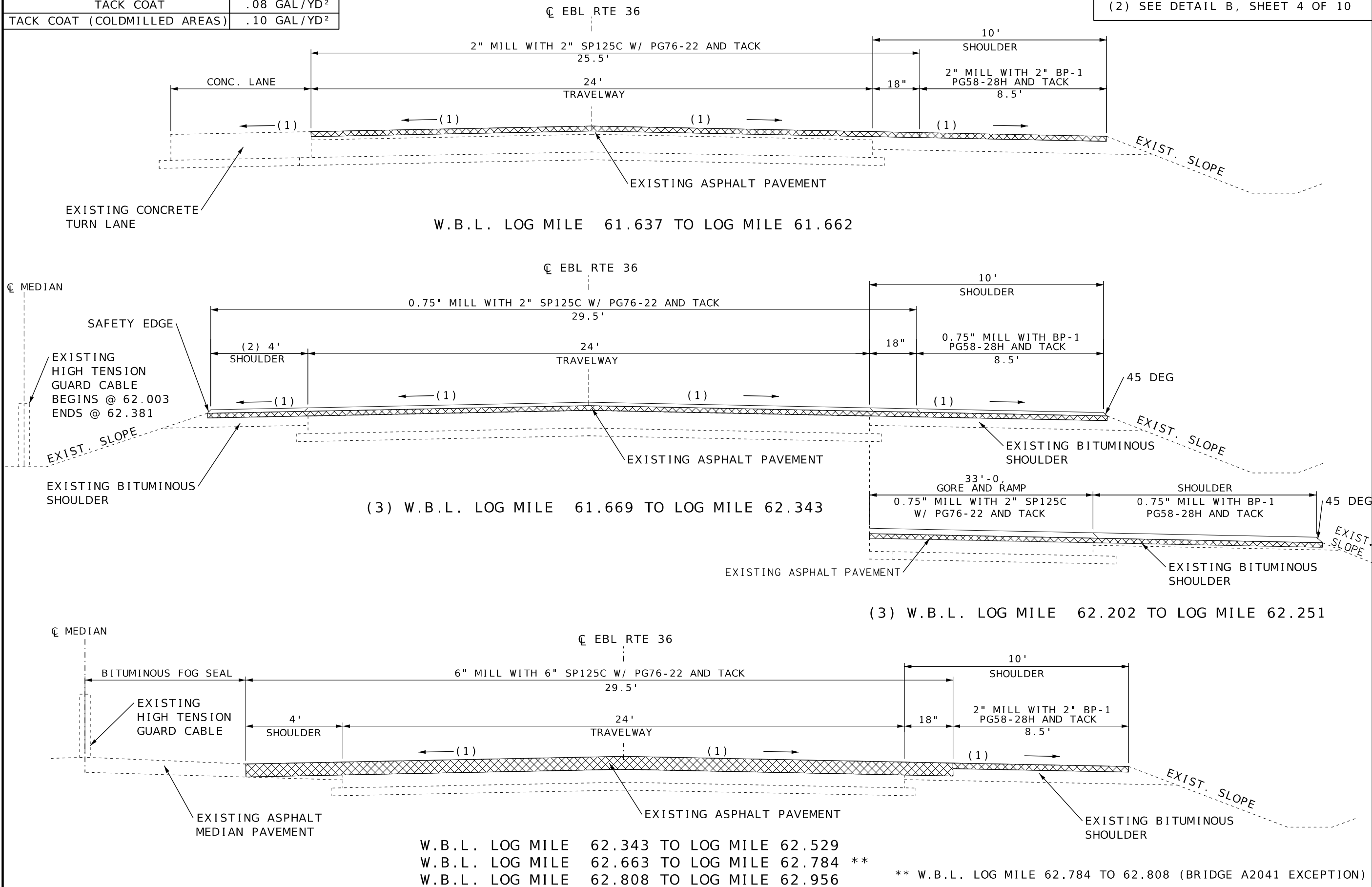
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TYPICAL SECTION SHEET
RTE 36 RAMPS
SHEET 5 OF 10

ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125C)	1.927 TON/YD ³
BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)	1.948 TON/YD ³
TACK COAT	.08 GAL/YD ²
TACK COAT (COLDMILLED AREAS)	.10 GAL/YD ²

NOTE:
(1) 2% CROSS-SLOPE, SEE DETAIL C
SHEET 4 OF 10
(2) SEE DETAIL B, SHEET 4 OF 10



STATE OF MISSOURI

KEITH ALLEN MILLEN

NUMBER

PE-2007020292

PROFESSIONAL ENGINEER

DATE PREPARED

6/17/2025

ROUTE

36

DISTRICT

NE

STATE

MO

SHEET NO.

2

COUNTY

MACON

JOB NO.

JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT

105 WEST CAPITOL

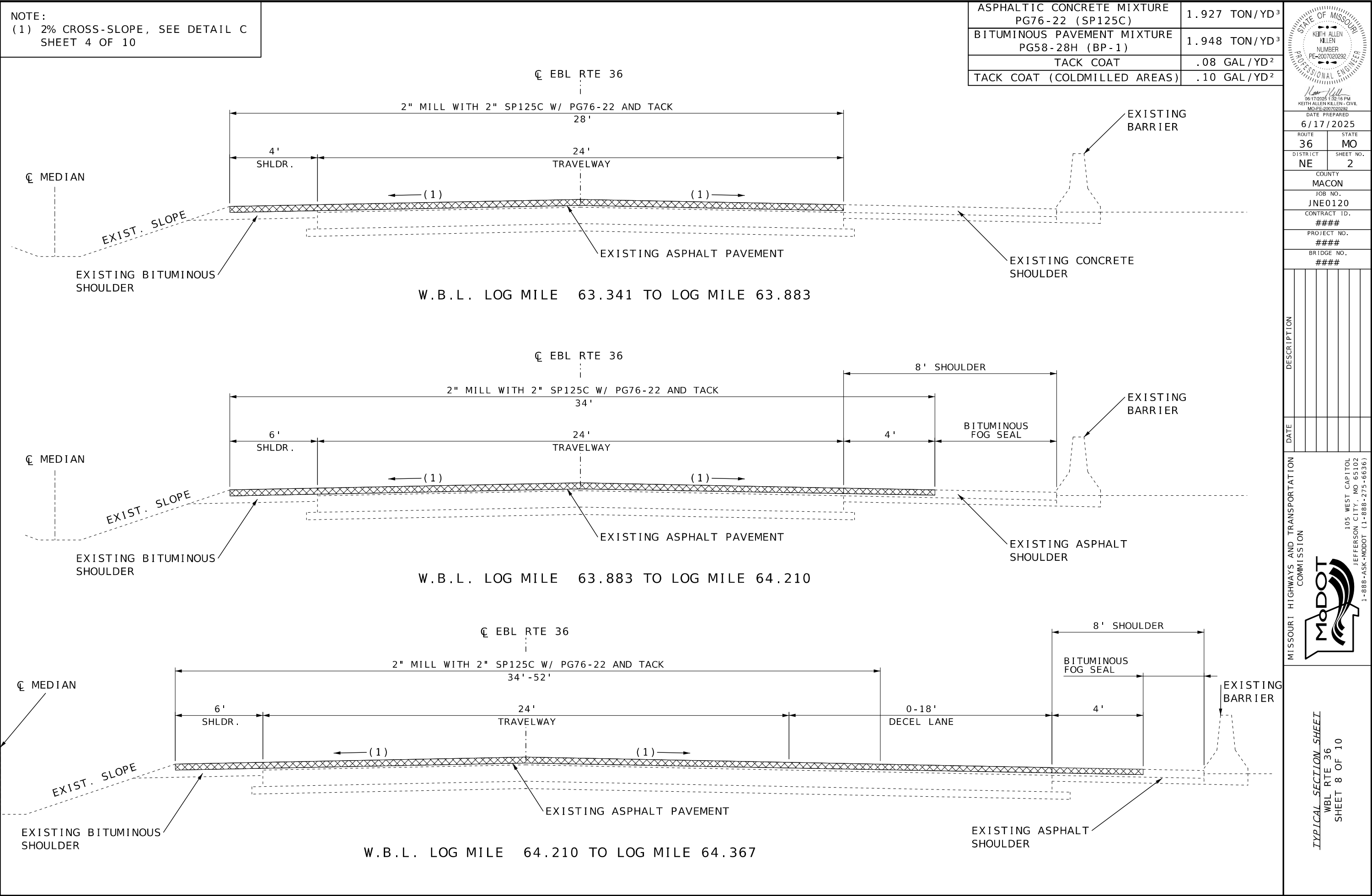
JEFFERSON CITY, MO 65102

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

TYPICAL SECTION SHEET

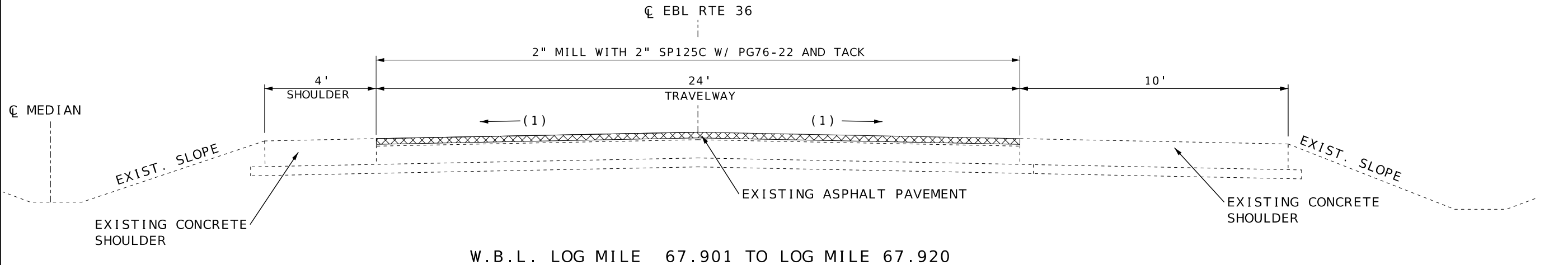
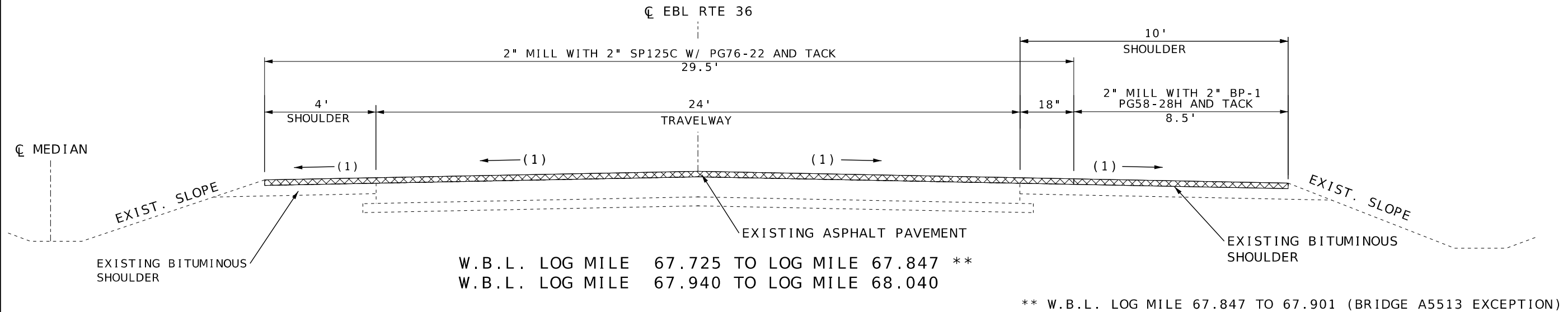
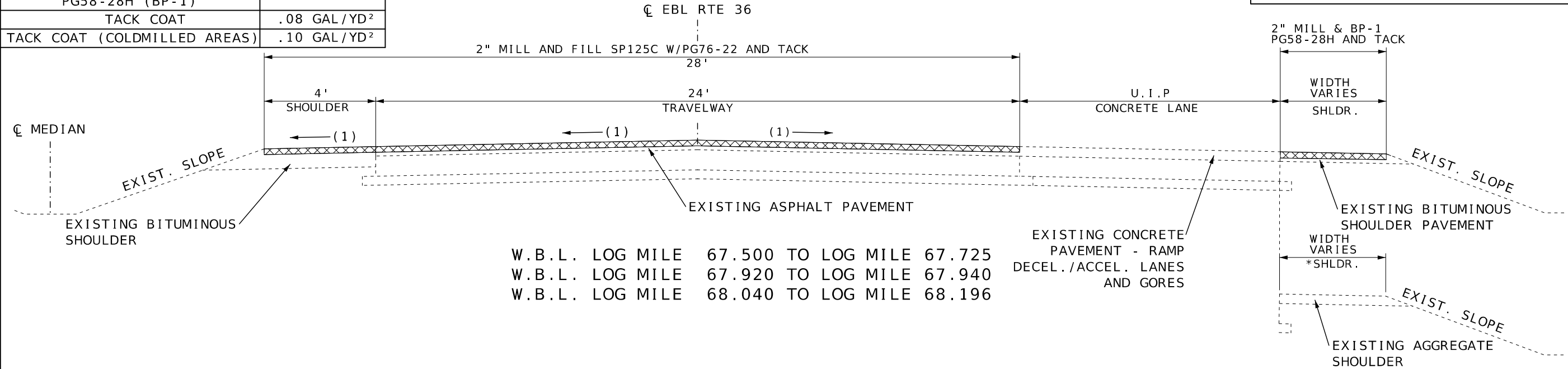
WBL RTE 36

SHEET 6 OF 10



ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125C)	1.927 TON/YD ³
BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)	1.948 TON/YD ³
TACK COAT	.08 GAL/YD ²
TACK COAT (COLDMILLED AREAS)	.10 GAL/YD ²

NOTE:
(1) 2% CROSS-SLOPE, SEE DETAIL C
SHEET 4 OF 10



STATE OF MISSOURI
KEITH ALLEN MILLEN
NUMBER
PE-2007020292
PROFESSIONAL ENGINEER

DATE PREPARED
6/17/2025

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36

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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TYPICAL SECTION SHEET
WBL RTE 36
SHEET 10 OF 10

EBL RTE 36 ASPHALTIC CONTRETE MIXTURE PG76-22 (SP125C)										
LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH INCHES	SQ. YD.	CU. YD.	QUANTITY Tons	TACK 0.05 gal/s.y	TACK 0.10 gal/s.y	REMARKS
124.260	124.458	1045.44	31.5	2.00	3659.04	203.28	391.72	-	365.90	BEGIN PROJECT EBL 36 LT SHOULDERS
124.458	124.628	897.60	30.0	2.00	2992.00	166.22	320.31	-	299.20	EBL 36 AND LT SHOULDER ALONG RTE. C/O DECEL LANE
124.599	124.628	150.00	VARIES	2.00	175.00	9.72	18.73	-	17.50	RTE. C/O EXIT RAMP GORE AREA
124.458	-	1025.00	0-18	2.00	1433.89	79.66	153.50	-	143.39	RTE. C/O DECEL LANE/EXIT RAMP
124.628	124.739	586.08	31.5	2.00	2051.28	113.96	219.60	-	205.13	EB RTE. 36 AND LT SHOULDER
124.739	124.786	248.16	0.0							BRIDGE A5512 EXCEPTION
124.786	124.979	1019.04	31.5	2.00	3566.64	198.15	381.84	-	356.66	EB RTE. 36 AND LT SHOULDER
124.979	125.159	950.40	30.0	2.00	3168.00	176.00	339.15	-	316.80	EBL 36 AND LT SHOULDER ALONG RTE. C/O ACCEL LANE
124.979	125.007	150.00	VARIES	2.00	100.00	5.56	10.71	-	10.00	RTE. C/O ENTRANCE RAMP GORE AREA
124.974	125.159	980.00	0-18	2.00	1375.56	76.42	147.26	-	137.56	RTE. C/O ENTRANCE RAMP/ACCEL LANE
125.159	125.558	2106.72	31.5	2.00	7373.52	409.64	789.38	-	737.35	EB RTE. 36 AND LT SHOULDER
125.558	126.660	5818.56	29.5	2.00	19071.95	1059.55	2041.75	-	1907.19	EB RTE. 36 AND LT SHOULDER
126.660	126.780	633.60	29.5	2.00	2076.80	115.38	222.34	-	207.68	EB RTE. 36 MILL/FILL UNDER BRIDGE
126.780	127.767	5211.36	29.5	2.00	17081.68	948.98	1828.68	-	1708.17	EB RTE. 36 AND LT SHOULDER
127.767	127.908	744.48	28.0	2.00	2316.16	128.68	247.97	-	231.62	EBL 36 AND LT SHOULDER ALONG LONG BRANCH LAKE ROAD DECEL LANE/EXIT RAMP
127.880	127.908	140.00	VARIES	2.00	62.22	3.46	6.67	-	6.22	LONG BRANCH LAKE ROAD EXIT RAMP GORE AREA
127.908	-	860.00	0-22	2.00	1211.11	67.28	129.65	-	121.11	LONG BRANCH LAKE ROAD DECEL LANE/EXIT RAMP
127.908	128.095	987.36	29.5	2.00	3236.35	179.80	346.47	-	323.63	EB RTE. 36 AND LT SHOULDER
128.095	128.135	211.20	0.0							BRIDGE A3820 EXCEPTION
128.135	128.280	765.60	29.5	2.00	2509.47	139.41	268.64	-	250.95	EB RTE. 36 AND LT SHOULDER
128.280	128.455	924.00	28.0	2.00	2874.67	159.70	307.74	-	287.47	EB RTE 36 AND LT SHOULDER ALONG BRANCH LAKE ROAD ACCEL LANE
128.280	128.322	225.00	VARIES	2.00	219.44	12.19	23.49	-	21.94	LONG BRANCH LAKE ROAD ENTRANCE RAMP GORE AREA
-	128.455	980.00	0-22	2.00	1629.44	90.52	174.43	-	162.94	LONG BRANCH LAKE ROAD ENTRANCE RAMP/ACCEL LANE
128.455	129.319	4561.92	29.5	2.00	14952.96	830.72	1600.80	-	1495.30	EB RTE. 36 AND LT SHOULDER
129.319	129.642	1705.44	29.50	6.00	5590.05	931.68	1795.35	559.00	559.01	EB RTE. 36 AND LT SHOULDER
129.642	129.835	1019.04	29.50	6.00	3340.19	556.70	1072.76	334.02	334.02	EBL RTE 36 AND LT SHOULDER ALONG PAVED MEDIAN
129.835	129.855	105.60								BRIDGE A2041 EXCEPTION
129.855	129.980	660.00	29.50	6.00	2163.33	360.56	694.80	216.34	216.33	EB RTE. 36 AND LT SHOULDER
129.980	130.070	475.20	29.50	6.00	1557.60	259.60	500.25	155.76	155.76	EB RTE 36 AND LT SHOULDER ALONG US 63 DECEL LANE
130.047	130.070	120.00	VARIES	2.00	105.56	5.86	11.29	-	10.56	RTE. 63 EXIT RAMP GORE AREA
129.980	-	695.00	0-18	2.00	994.44	55.25	106.47	-	99.44	RTE. 63 DECEL LANE/EXIT RAMP
130.070	130.300	1214.40	29.50	6.00	3980.53	663.42	1278.41	398.06	398.05	EBL RTE. 36 AND LT SHOULDER

NOTE: FACTOR USED = 1.927 TONS PER CU.YD.

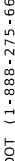
MOBILIZATION	
LUMP SUM	1

TEMPORARY PAVEMENT MARKING	
TOTAL 1 LUMP SUM	

STATE OF MISSOURI
KEITH ALLEN
KILLEN
NUMBER
PE-2007020292
PROFESSIONAL ENGINEER
06/17/2025 1:33:19 PM
KEITH ALLEN KILLEN - CIVIL

MO-PE-2007020292	
DATE PREPARED	
6/17/2025	
ROUTE	STATE
36	MO
DISTRICT	SHEET NO.
NE	3
COUNTY	
MACON	
JOB NO.	
JNE0120	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EBL RTE 36 MODIFIED COLDMILLING DEPTH TRANSITION						
LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH IN.	SQ. YD.	REMARKS
124.260	124.283	125.00	40.00	2" - 0.75"	555.6	BEGIN PROJECT- BUTT JOINT
-	-	137.50	18.00	0.75" - 2"	275.0	RTE O/C EXIT RAMP
124.716	124.739	125.00	40.00	0.75" - 2"	555.6	TO RTE O/C BRIDGE
124.786	124.809	125.00	40.00	2" - 0.75"	555.6	FROM RTE O/C BRIDGE
-	-	137.50	18.00	2" - 0.75"	275.0	RTE O/C ENTRANCE RAMP
126.637	126.660	125.00	38.00	0.75" - 2"	527.8	TRANSITION TO MILL/FILL
126.780	126.803	125.00	38.00	2" - 0.75"	527.8	TRANSITION FROM MILL/FILL
-	-	100.00	32.00	0.75" - 2"	355.6	LONG BRANCH BRIDGE EXIT RAMP
128.052	128.095	125.00	38.00	0.75" - 2"	527.8	TO LONG BRANCH BRIDGE
128.135	128.158	125.00	38.00	2" - 0.75"	527.8	FROM LONG BRANCH BRIDGE
-	-	100.00	32.00	2" - 0.75"	355.6	LONG BRANCH BRIDGE ENTRANCE RAMP
129.286	129.319	125.00	38.00	0.75" - 2"	527.8	TRANSITION TO MILL/FILL
130.300	130.324	125.00	38.00	2" - 0.75"	527.8	TRANSITION FROM MILL/FILL
130.863	130.886	125.00	38.00	0.75" - 2"	527.8	TRANSITION TO MILL/FILL
-	-	125.00	18.00	2" - 0.75"	250.0	RTE 63 ENTRANCE RAMP
				SUBTOTAL	6872.6	

BITUMINOUS FOG SEAL				
LOG MILE	LOG MILE	WIDTH FT.	QUANTITY GALLONS	REMARKS
EBL RTE 36				
129.642	129.835	15.0	254.76	PAVED GUARDCABLE MEDIAN
129.835	129.855			BRIDGE A2041 EXCEPTION
129.855	130.261	15.0	535.92	PAVED GUARDCABLE MEDIAN
		SUBTOTAL	790.68	
WBL RTE 36				
63.883	64.210	4	115.10	FOG SEAL RT SHOULDER ALONG CONC. BARRIER
64.210	64.362	8	107.01	FOG SEAL RT SHOULDER ALONG CONC. BARRIER
67.667	67.722	VAR.	38.72	WBL 36 RT SHOULDER ADJACENT TO CONCRETE GORE
		SUBTOTAL	260.83	
		TOTAL	1052.0	
FACTOR: 0.15 GALLONS PER SQ.YD.				

FACTOR: 0.15 GALLONS PER SQ.YD.

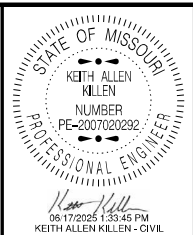
SUMMARY OF QUANTITIES
SHEET 1 OF 7

EB 36 BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)									
LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH INCHES	SQ. YD.	CU. YD.	QUANTITY Tons	TACK 0.10 gal/s.y.	REMARKS
124.260	124.458	1045.44	8.50	2.00	987.36	54.85	106.85	98.74	RT SHOULDER
124.458	-	905.00	VARIES	2.00	863.89	47.99	93.48	86.39	RT SHOULDER (RTE C/O DECEL LANE/EXIT RAMP)
124.628	124.680	274.56	VARIES	2.00	402.78	22.38	43.60	40.28	TAPERED RT SHOULDER
124.680	124.739	311.52	8.50	2.00	294.21	16.35	31.85	29.42	RT SHOULDER
124.739	124.786	248.16	-						BRIDGE A5512 EXCEPTION
124.786	124.979	1019.04	8.50	2.00	962.43	53.47	104.16	96.24	RT SHOULDER
125.000	125.159	839.52	VARIES	2.00	753.33	41.85	81.52	75.33	RT SHOULDER (RTE C/O ENTRANCE RAMP/ACCEL LANE)
125.159	126.660	7925.28	8.50	2.00	7484.99	415.83	810.04	748.50	RT SHOULDER
126.660	126.780	633.60	8.50	2.00	598.40	33.24	64.75	59.84	RT SHOULDER MILL/FILL UNDER BRIDGE
126.780	127.767	5211.36	8.50	2.00	4921.84	273.44	532.66	492.18	RT SHOULDER
127.767	-	860.00	VARIES	2.00	780.56	43.36	84.47	78.06	RT SHOULDER (LONG BRANCH DECEL LANE)
127.908	128.095	987.36	8.50	2.00	932.51	51.81	100.93	93.25	RT SHOULDER
128.095	128.135	211.20	-						BRIDGE A3820 EXCEPTION
128.135	128.280	765.60	8.50	2.00	723.07	40.17	78.25	72.31	RT SHOULDER
-	128.455	980.00	VARIES	2.00	906.67	50.37	98.12	90.67	OUTSIDE SHOULDER (LONG BRANCH ACCEL LANE)
128.455	129.319	4561.92	8.50	2.00	4308.48	239.36	466.27	430.85	RT SHOULDER
129.319	129.642	1705.44	8.50	2.00	1610.69	89.48	174.31	161.07	(MILL AND FILL) RT SHOULDER
129.642	129.835	1019.04	8.50	2.00	962.43	53.47	104.16	96.24	(MILL AND FILL) RT SHOULDER
129.835	129.855	105.60	-						BRIDGE A2041 EXCEPTION
129.855	129.980	660.00	8.50	2.00	623.33	34.63	67.46	62.33	(MILL AND FILL) RT SHOULDER
129.980	130.040	316.80	VARIES	2.00	312.22	17.35	33.80	31.22	MILL AND FILL RT SHOULDER (RTE 63 DECEL LANE)
130.070	130.300	1214.40	8.50	2.00	1146.93	63.72	124.13	114.69	(MILL AND FILL) RT SHOULDER
130.300	130.324	126.72	8.50	2.00	119.68	6.65	12.95	11.97	RT SHOULDER
130.478	130.487	47.52	10.00	2.00	52.80	2.93	5.71	5.28	RT SHOULDER (RTE 63 ACCEL LANE)
130.487	130.886	2106.72	8.50	2.00	1989.68	110.54	215.33	198.97	RT SHOULDER
130.886	130.998	591.36	8.50	2.00	558.51	31.03	60.45	55.85	(MILL AND FILL) RT SHOULDER
130.998	131.100	538.56	8.50	2.00	508.64	28.26	55.05	50.86	MILL AND FILL TO END OF PROJECT
130.984	-	50.00	VARIES	2.00	350.00	19.44	37.87	35.00	S. KELLOGG APPROACH (CO-OP RD)
124.260	129.319	26711.52	-	-	-	-	321.20	-	SAFTETY EDGE/SIDESLOPE IRREGULARITIES FOR RT SHOULDER
130.300	130.886	3094.08	-	-	-	-	37.21	-	SAFTETY EDGE/SIDESLOPE IRREGULARITIES FOR RT SHOULDER
124.260	131.100	36115.20	-	-	-	-	273.60	-	IRREGULARITIES AND SLOPE CORRECTION
						SUBTOTAL	4220.18	3315.54	
NOTE: FACTOR USED = 1.948 TONS PER CU.YD.									

REMOVAL OF IMPROVEMENTS				
ROADWAY	LT/RT	LOCATION	REMOVAL	QTY (FT)
EBL 36	LEFT	LONG BRANCH BRIDGE UPSTREAM	GUARDRAIL /CWET	400
EBL 36	RIGHT	LONG BRANCH BRIDGE UPSTREAM	GUARDRAIL /CWET	375
EBL 36	LEFT	GANTZ BRIDGE UPSTREAM	GUARDRAIL /CWET	100
EBL 36	RIGHT	GANTZ BRIDGE UPSTREAM	GUARDRAIL /CWET	350
EBL 36	LEFT	GANTZ BRIDGE DOWNSTREAM	GUARDRAIL /ANCHOR	80
WBL 36	LEFT	GANTZ BRIDGE DOWNSTREAM	GUARDRAIL /ANCHOR	80
EBL 36	LEFT	RTE 63 BRIDGE PIER PROTECTION	GUARDRAIL /CWET /ANCHOR	200
WBL 36	LEFT	RTE 63 BRIDGE PIER PROTECTION	GUARDRAIL /CWET /ANCHOR	200
		LUMP SUM	1	

PERMANENT PAVEMENT MARKING								
LOG MILE	LOG MILE	LOCATON	CLASS 2 PAVEMENT MARKING PAINT, (25-MIL, TYPE L BEADS)					REMARKS
			SOLID 6" WHITE L.F.	INTERMITENT 6" WHITE L.F.	DOTTED 6" WHITE L.F.	SOLID 6" YELLOW L.F.	SOLID 12" WHITE L.F.	
EBL RTE 36								
124.260	131.100	EBL RTE 36	36115	9029	-	36115	-	TRAVELWAY LT/RT EDGE, CENTERLINE
		RTE C/O EXIT LANE/RAMP	365	-	159	115	470	LANE LINE, GORE, RAMP LT/RT EDGELINES
		RTE C/O ENTRANCE LANE/RAMP	250	93	185	38	370	LANE LINE, GORE, RAMP LT/RT EDGELINES
		LONG BRANCH EXIT LANE/RAMP	310	-	135	100	550	LANE LINE, GORE, RAMP LT/RT EDGELINES
		LONG BRANCH ENTRANCE LANE/RAMP	375	56	153	90	540	LANE LINE, GORE, RAMP LT/RT EDGELINES
		RTE 63 EXIT LANE/RAMP	430	-	85	300	275	GORE, RAMP LT/RT EDGELINES
		RTE 63 ENTRANCE LANE/RAMP	715	59	169	560	265	LANE LINE, GORE, RAMP LT/RT EDGELINES
124.260	131.100	EBL RTE 36	2760	-	-	-	-	RT EDGELINES EXCEPTIONS
		SUBTOTAL	35800	9237	886	37318	2470	
WBL RTE 36								
61.637	69.560	WBL RTE 36	41833	10458	-	41833	-	TRAVELWAY LT/RT EDGE, CENTERLINE
		RTE 63 EXIT RAMP	700	-	38	425	280	GORE, RAMP LT/RT EDGELINES
		RTE 63 ENTRANCE LANE/RAMP	635	145	138	480	260	LANE LINE, GORE, RAMP LT/RT EDGELINES
		LONG BRANCH EXIT LANE/RAMP	450	-	160	250	350	LANE LINE, GORE, RAMP LT/RT EDGELINES
		LONG BRANCH ENTRANCE LANE/RAMP	400	215	160	175	350	LANE LINE, GORE, RAMP LT/RT EDGELINES
		RTE C/O EXIT LANE/RAMP	275	-	185	-	500	LANE LINE, GORE, RAMP LT/RT EDGELINES
		RTE C/O ENTRANCE LANE/RAMP	210	200	190	-	420	LANE LINE, GORE, RAMP LT/RT EDGELINES
61.637	69.560	WBL RTE 36	1410	-	-	-	-	RT EDGELINES EXCEPTIONS
		SUBTOTAL	43093	11018	871	43163	2160	
		TOTAL	78893	20255	1757	80481	4630	
		USE		100905		80481	4630	
NOTE: SEE STANDARD PLAN 620.00 FOR PAVEMENT MARKING GUIDANCE, FIELD VERIFY LENGTHS.								

MGS GUARDRAIL									
LOG MILE	ROADWAY	LT/RT	BRIDGE	MGS BRIDGE ANCHOR TRANSITION SECTION (EA)	MGS GUARDRAIL LENGTH (FT)	MGS GUARDRAIL END ANCHOR (EA)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)	SHAPING SLOPES CLASS III (STA)	REMARKS
128.100	EBL 36	RIGHT	LONG BRACH BRIDGE (A38201)	1	187.5	-	1	3	UPSTREAM
128.100	EBL 36	LEFT	LONG BRACH BRIDGE (A38201)	1	237.5	-	1	3	UPSTREAM
129.840	EBL 36	RIGHT	GANTZ BRIDGE (A20413)	1	187.5	-	1	3	UPSTREAM
129.840	EBL 36	LEFT	GANTZ BRIDGE (A20413)	1	137.5	-	1	-	UPSTREAM
129.859	EBL 36	LEFT	GANTZ BRIDGE (A20413)	1	-	1	-	-	DOWNSTREAM
130.214	EBL 36	LEFT	UNDER HWY 63 BRIDGE	-	150	1	1	-	PIER PROTECTION
62.435	WBL 36	LEFT	UNDER HWY 63 BRIDGE	-	150	1	1	-	PIER PROTECTION
62.823	WBL 36	LEFT	GANTZ BRIDGE (A20414)	1	-	1	-	-	DOWNSTREAM
			TOTAL	6	1050	4	6	9	



MO-PE-2007020292	
DATE PREPARED	
6/17/2025	
ROUTE	STATE
36	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
MACON
JOB NO.
JNE0120
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

SUMMARY OF QUANTITIES
SHEET 2 OF 7

EBL RTE 36 COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3" THICK OR LESS)						
LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH IN.	SQ.YD.	REMARKS
124.283	124.458	924.00	40.00	0.75	4106.67	BEGIN PROJECT EBL 36 LT/RT SHOULDERS
124.458	124.628	897.60	30.00	0.75	2992.00	EBL 36 AND LT SHOULDER ALONG RTE. C/O DECEL LANE
124.599	124.628	150.00	VARIES	0.75	175.00	RTE. C/O EXIT RAMP GORE AREA
124.458	-	1025.00	0-18	0.75	1211.11	RTE. C/O DECEL LANE/EXIT RAMP
124.458	-	905.00	VARIES	0.75	863.89	RT SHOULDER (RTE C/O DECEL LANE/EXIT RAMP)
124.628	124.680	274.56	31.50	0.75	960.96	EB RTE. 36 AND LT SHOULDER
124.628	124.680	274.56	VARIES	0.75	402.78	TAPERED RT SHOULDER
124.680	124.716	190.08	40.00	0.75	844.80	EB RTE. 36 AND LT/RT SHOULDER
124.739	124.786	-				BRIDGE A5512 EXCEPTION
124.809	124.979	897.60	40.00	0.75	3989.33	EB RTE. 36 AND LT/RT SHOULDER
124.979	125.159	950.40	30.00	0.75	3168.00	EBL 36 AND LT SHOULDER ALONG RTE. C/O ACCEL LANE
124.979	125.007	150.00	VARIES	0.75	100.00	RTE. C/O ENTRANCE RAMP GORE AREA
125.007	125.159	802.56	0-18	0.75	1044.44	RTE. C/O ENTRANCE RAMP/ACCEL LANE
125.000	125.159	839.52	VARIES	0.75	753.33	RT SHOULDER (RTE C/O ENTRANCE RAMP/ACCEL LANE)
125.159	125.558	2106.72	40.00	0.75	9363.20	EB RTE. 36 AND LT/RT SHOULDER
125.558	126.637	5697.12	38.00	0.75	24054.51	EB RTE. 36 TO DEPTH TRANSITION UNDER BRIDGE
126.660	126.780	633.60	38.00	2.00	2675.20	EB RTE. 36 MILL/FILL UNDER BRIDGE
126.803	127.767	5089.92	38.00	0.75	21490.77	FROM DEPTH TRANSITION EB RTE. 36
127.767	127.908	744.48	28.00	0.75	2316.16	EBL 36 AND LT SHOULDER ALONG LONG BRANCH LAKE ROAD DECEL LANE/EXIT RAMP
127.880	127.908	140.00	VARIES	0.75	62.22	LONG BRANCH LAKE RD EXIT RAMP GORE AREA
127.767	127.908	744.48	0-22	0.75	1039.44	LONG BRANCH LAKE ROAD DECEL LANE/EXIT RAMP
127.767	127.908	744.48	VARIES	0.75	696.11	RT SHOULDER (LONG BRANCH DECEL LANE)
127.908	128.052	760.32	38.00	0.75	3210.24	EB RTE. 36 AND LT/RT SHOULDER
128.095	128.135	-				BRIDGE A3820 EXCEPTION
128.158	128.280	644.16	38.00	0.75	2719.79	EB RTE. 36 AND LT/RT SHOULDER
128.280	128.455	924.00	28.00	0.75	2874.67	EB RTE 36 AND LT SHOULDER ALONG BRANCH LAKE ROAD ACCEL LANE
128.280	128.322	225.00	VARIES	0.75	219.44	LONG BRANCH LAKE RD ENTRANCE RAMP GORE AREA
128.280	128.455	880.00	0-22	0.75	1386.11	LONG BRANCH LAKE ROAD ENTRANCE RAMP/ACCEL LANE
128.280	128.455	880.00	VARIES	0.75	808.33	RT SHOULDER (LONG BRANCH ACCEL LANE)
128.455	129.319	4561.92	38.00	0.75	19261.44	EB RTE. 36 AND LT/RT SHOULDER
129.319	129.642	1705.44	8.50	2.00	1610.69	OUTSIDE SHOULDER MILL/FILL
129.642	129.835	1019.04	8.50	2.00	962.43	OUTSIDE SHOULDER MILL/FILL
129.835	129.855	-				BRIDGE A2041 EXCEPTION
129.855	129.980	660.00	8.50	2.00	623.33	OUTSIDE SHOULDER MILL/FILL
129.980	-	695.00	VARIES	2.00	994.44	US 63 DECEL LANE/EXIT RAMP
130.047	130.070	120.00	VARIES	2.00	105.56	RTE 63 EXIT RAMP GORE AREA
129.980	130.047	353.76	VARIES	2.00	312.22	RT SHOULDER (RTE 63 DECEL LANE)
130.070	130.300	1214.40	8.50	2.00	1146.93	OUTSIDE SHOULDER TO END OF GUARDRAIL W/PAVED MEDIAN
130.324	130.487	860.64	28.00	0.75	2677.55	EBL RTE 36 AND LT SHOULDER ALONG RTE 63 ENTRANCE RAMP/ACCEL LANE
130.324	130.347	120.00	VARIES	0.75	94.44	RTE 63 ENTRANCE RAMP GORE AREA
-	130.347	550.00	18.00	0.75	1011.11	RTE. 63 ENTRANCE RAMP
130.347	130.487	739.20	0-12	0.75	724.44	RTE. 63 ACCEL LANE
130.478	130.487	47.52	10.00	0.75	52.80	RT SHOULDER (RTE. 63 ACCEL LANE)
130.487	130.853	1932.48	38.00	0.75	8159.36	EB RTE. 36 AND LT/RT SHOULDER
130.886	130.998	591.36	34.00	2.00	2234.03	EB RTE. 36 AND RT SHOULDER MILL/FILL
130.998	131.100	538.56	38.00	2.00	2273.92	EB 36 AND LT/RT SHOULDER MILL/FILL TO END OF PROJECT
130.984	-	50.00	VARIES	2.00	215.00	S. KELLOGG APPROACH (CO-OP RD)
				SUBTOTAL	135988.2	

AGGREGATE UNDERDRAINS				
LOG MILE	LOCATION	QUANTITY EA	LENGTH FT.	REMARKS
128.08	EBL 36	1.00	15.0	BEFORE LONG BRANCH BRIDGE
128.149	EBL 36	1.00	15.0	AFTER LONG BRANCH BRIDGE
129.585	EBL 36	1.00	15.0	EBL 36
129.679	EBL 36	1.00	15.0	EBL 36
129.699	EBL 36	1.00	15.0	EBL 36
129.773	EBL 36	1.00	15.0	EBL 36
129.879	EBL 36	1.00	15.0	AFTER GANTZ BRIDGE
129.919	EBL 36	1.00	15.0	EBL 36
129.959	EBL 36	1.00	15.0	EBL 36
129.979	EBL 36	1.00	15.0	DECEL LANE RTE 63
130.019	EBL 36	1.00	15.0	DECEL LANE RTE 63
130.059	EBL 36	1.00	15.0	DECEL LANE RTE 63
130.119	EBL 36	1.00	15.0	BEFORE RTE 36 BRIDGE
130.161	EBL 36	1.00	15.0	BEFORE RTE 36 BRIDGE
130.199	EBL 36	1.00	15.0	UNDER RTE 36 BRIDGE
130.219	EBL 36	1.00	15.0	UNDER RTE 63 BRIDGE
62.423	WBL 36	1.00	15.0	UNDER RTE 63 BRIDGE
62.441	WBL 36	1.00	15.0	AFTER RTE 63 BRIDGE
62.481	WBL 36	1.00	15.0	AFTER RTE 63 BRIDGE
62.542	WBL 36	1.00	15.0	ACCEL LANE FROM RTE 63
62.582	WBL 36	1.00	15.0	ACCEL LANE FROM RTE 63
62.602	WBL 36	1.00	15.0	ACCEL LANE FROM RTE 63
62.641	WBL 36	1.00	15.0	ACCEL LANE FROM RTE 63
62.681	WBL 36	1.00	15.0	WBL 36
62.761	WBL 36	1.00	15.0	BEFORE GANTZ BRIDGE
62.822	WBL 36	1.00	15.0	AFTER GANTZ BRIDGE
62.861	WBL 36	1.00	15.0	AFTER GANTZ BRIDGE
62.901	WBL 36	1.00	15.0	WBL 36
62.941	WBL 36	1.00	15.0	WBL 36
64.562	WBL 36	1.00	15.0	AFTER LONG BRANCH BRIDGE
		TOTAL	450	

[illegible]

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (GREATER THAN 3")						
LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH IN.	QUANTITY SQ.YD.	REMARKS
EBL RTE 36						
129.319	129.642	1705.44	29.50	6.00	5590.05	EB 36 AND LT SHOULDER
129.642	129.835	1019.04	29.50	6.00	3340.19	EB 36 AND LT SHOULDER ALONG PAVED MEDIAN
129.835	129.855	-	-	-	-	BRIDGE A2041 EXCEPTION
129.855	129.980	660.00	29.50	6.00	2163.33	EB 36 AND LT SHOULDER
129.980	130.070	475.20	29.50	6.00	1557.60	EB 36 AND LT SHOULDER ALONG US 63 DECEL LANE
130.070	130.300	1214.40	29.50	6.00	3980.53	EB 36 AND LT SHOULDER
SUBTOTAL					16631.70	
WBL RTE 36						
62.343	62.529	982.08	29.50	6.00	3219.04	WB 36 AND LT SHOULDER
62.529	62.663	707.52	29.50	6.00	2319.09	WB 36 AND LT SHOULDER ALONG RTE 63 ACCEL LANE
62.663	62.784	638.88	29.50	6.00	2094.11	WB 36 & LT. SHOULDER
62.784	62.808	-	-	-	-	BRIDGE A2041 EXCEPTION
62.808	62.956	781.44	29.50	6.00	2561.39	WB 36 AND LT SHOULDER
62.956	63.246	1531.20	32.00	6.00	5444.27	WB 36 AND LT SHOULDER
63.246	63.341	501.60	28.00	6.00	1560.53	WB 36 AND LT SHOULDER
SUBTOTAL					17198.43	
TOTAL					33830.1	

MISC. TYPE 1 AGGREGATE				
LENGTH FT.	WIDTH FT.	THICK IN	QUANTITY TONS	REMARKS
EBL RTE 36				
120.0	14	3	32.50	RTE. C/O EXIT RAMP RT/LT SHOULDER AGGREGATE
160.0	14	3	43.30	RTE. C/O ENTRANCE RAMP RT/LT SHOULDER AGGREGATE
480.0	10	3	92.80	RTE. 63 EXIT RAMP RT SHOULDER AGGREGATE
275.0	4	3	21.30	RTE. 63 EXIT RAMP LT SHOULDER AGGREGATE
1335.0	10	3	258.10	RTE. 63 ENTRANCE RAMP RT SHOULDER AGGREGATE
570.0	4	3	44.10	RTE. 63 ENTRANCE RAMP LT SHOULDER AGGREGATE
SUBTOTAL			492.1	
WBL RTE 36				
535.00	4	3	41.38	RTE. 63 EXIT RAMP LT SHOULDER AGGREGATE
700.00	10	3	135.34	RTE. 63 EXIT RAMP RT SHOULDER AGGREGATE
475.00	4	3	36.73	RTE. 63 ENTRANCE RAMP LT SHOULDER AGGREGATE
1050.00	10	3	203.01	RTE. 63 ENTRANCE RAMP RT SHOULDER AGGREGATE
260.00	14	3	70.37	LONG BRANCH RD. EXIT RAMP AGGR. RT/LT SHOULDER AGGREGATE
185.00	14	3	50.08	LONG BRANCH RD. ENTRANCE RAMP AGGR. RT/LT SHOULDER AGGREGATE
SUBTOTAL			537.0	
		TOTAL	1029.1	

NOTE: FACTOR USED = 0.058 TONS PER SQ. YD. / INCH

WB 36 ASPHALTIC CONCRETE - MIXTURE PG76-22 (SP125C)										REMARKS
LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH INCHES	SQ. YD.	CU. YD.	QUANTITY Tons	TACK 0.05	TACK 0.1	
61.637	61.662	135.00	25.50	2.00	382.50	21.25	40.95	-	38.25	(MILL/FILL) WB 36 BEGIN PROJECT
61.662	61.669	36.96	29.50	2.00	121.15	6.73	12.97	-	12.11	WB 36 AND LT SHOULDER
61.669	62.202	2814.24	29.50	2.00	9224.45	512.47	987.53	-	922.45	WB 36 AND LT SHOULDER
62.202	62.251	258.72	28.00	2.00	804.91	44.72	86.18	-	80.49	WB 36 AND LT SHOULDER
62.224	62.251	142.56	VARIES	2.00	108.33	6.02	11.60	-	10.83	RTE. 63 EXIT RAMP GORE AREA
62.202	-	695.00	18.00	2.00	1390.00	77.22	148.80	-	139.00	RTE. 63 EXIT RAMP
62.251	62.343	485.76	29.50	2.00	1592.21	88.46	170.46	-	159.22	WB 36 AND LT SHOULDER
62.343	62.529	982.08	29.50	6.00	3219.04	536.51	1033.85	321.90	321.90	(MILL/FILL) WB 36 AND LT SHOULDER
62.529	62.663	707.52	29.50	6.00	2319.09	386.52	744.82	231.90	231.91	(MILL/FILL) WB 36 AND LT SHOULDER
62.529	62.546	89.76	VARIES	2.00	55.56	3.09	5.95	-	5.56	RTE. 63 ENTRANCE RAMP GORE AREA
-	62.529	490.00	18.00	2.00	980.00	54.44	104.91	-	98.00	RTE. 63 ENTRANCE RAMP
62.529	62.663	500.00	0-12	2.00	811.11	45.06	86.83	-	81.11	RTE. 63 ACCEL LANE
62.663	62.784	638.88	29.50	6.00	2094.11	349.02	672.56	209.42	209.41	(MILL/FILL) WB 36 AND LT SHOULDER
62.784	62.808	126.72	-							GANTZ ST. BRIDGE EXCEPTION
62.808	62.956	781.44	29.50	6.00	2561.39	426.90	822.64	256.14	256.14	(MILL/FILL) WB 36 AND LT SHOULDER
62.956	63.246	1531.20	32.00	6.00	5444.27	907.38	1748.52	544.42	544.43	(MILL/FILL) WB 36 AND LT/RT (4') SHOULDER
63.246	63.341	501.60	28.00	6.00	1560.53	260.09	501.19	156.06	156.05	(MILL/FILL) WB 36 AND LT SHOULDER
63.341	63.883	2861.76	28.00	2.00	8903.25	494.63	953.15	-	890.33	(MILL/FILL) WB 36 AND LT SHOULDER
63.883	64.210	1726.56	34.00	2.00	6522.56	362.36	698.27	-	652.26	(MILL/FILL) WB 36 AND LT/RT (4') SHOULDER
64.210	64.367	828.96	30.00	2.00	2763.20	153.51	295.81	-	276.32	(MILL/FILL) WB 36 AND LT SHOULDER
64.342	64.367	132.00	VARIES	2.00	111.11	6.17	11.89	-	11.11	LONG BRANCH LAKE RD. EXIT RAMP GORE AREA
64.210	64.367	828.96	0-22	2.00	1605.56	89.20	171.89	-	160.56	(MILL/FILL) LONG BRANCH LAKE RD DECEL LANE AND RT (4') SHOULDER
64.367	-	260.00	18.00	2.00	520.00	28.89	55.67	-	52.00	LONG BRANCH LAKE ROAD EXIT RAMP
64.367	64.504	723.36	31.50	2.00	2531.76	140.65	271.03	-	253.18	(MILL/FILL) WB 36 AND LT SHOULDER
64.504	64.562	306.24	-							LONG BRANCH BRIDGE EXCEPTION
64.562	64.646	443.52	31.50	2.00	1552.32	86.24	166.18	-	155.23	WB 36 AND LT SHOULDER
64.646	64.803	828.96	30.00	2.00	2763.20	153.51	295.81	-	276.32	TRAVELWAY,LT SHOULDER, ACCEL. LANE PAVEMENT
64.646	64.670	126.72	VARIES	2.00	77.78	4.32	8.32	-	7.78	LONG BRANCH LAKE RD. ENTRANCE RAMP GORE AREA
64.646	-	1015.00	0-18	2.00	1455.56	80.86	155.82	-	145.56	LONG BRANCH LAKE ROAD ENTRANCE RAMP/ACCEL LANE
64.803	65.863	5596.80	31.50	2.00	19588.80	1088.27	2097.10	-	1958.88	WB 36 AND LT SHOULDER
65.863	65.957	496.32	31.50	2.00	1737.12	96.51	185.97	-	173.71	WB 36 AND LT SHOULDER
65.957	67.301	7096.32	31.50	2.00	24837.12	1379.84	2658.95	-	2483.71	WB 36 AND LT SHOULDER
67.301	67.500	1050.72	29.50	2.00	3444.03	191.33	368.69	-	344.40	WB 36 AND LT SHOULDER
67.500	67.725	1188.00	28.00	2.00	3696.00	205.33	395.67	-	369.60	WB 36 AND LT SHOULDER
67.725	67.847	644.16	29.50	2.00	2111.41	117.30	226.04	-	211.14	WB 36 AND LT SHOULDER
67.847	67.901	285.12	-							RTE. O/C BRIDGE EXCEPTION
67.901	67.920	100.32	24.00	2.00	267.52	14.86	28.64	-	26.75	(MILL/FILL) WB 36
67.920	67.940	105.60	28.00	2.00	328.53	18.25	35.17	-	32.85	(MILL/FILL) WB 36 AND LT SHOULDER
67.940	68.022	432.96	29.50	2.00	1419.15	78.84	151.92	-	141.91	(MILL/FILL) TRAVELWAY AND LT SHOULDER PAVEMENT
68.022	68.196	918.72	28.00	2.00	2858.24	158.79	305.99	-	285.82	(MILL/FILL) WB 36 AND LT SHOULDER
68.022	68.040	95.04	VARIES	2.00	94.44	5.25	10.12	-	9.44	(MILL/FILL) RTE C/O ENTRANCE RAMP GORE AREA
68.196	69.560	7201.92	29.50	2.00	23606.29	1311.46	2527.18	-	2360.63	WB 36 AND LT SHOULDER TO END OF PROJECT
61.669	62.343	3558.72	-	-	-	-	42.33	-	-	SAFTETY EDGE/SIDESLOPE IRREGULARITIES FOR LT SHOULDER
64.562	67.500	15512.64	-	-	-	-	184.52	-	-	SAFTETY EDGE/SIDESLOPE IRREGULARITIES FOR LT SHOULDER
68.022	68.040	95.04	-	-	-	-	1.13	-	-	SAFTETY EDGE/SIDESLOPE IRREGULARITIES FOR LT SHOULDER
61.637	69.560	41833.44	-	-	-	-	792.30	-	-	IRREGULARITIES AND SLOPE CORRECTION
						TOTAL	20275.32	1719.84	14546.35	

NOTE: FACTOR USED = 1.927 TONS PER CU.YD.

QUANTITY TOTALS

LOG MILE	LOG MILE	LOCATION	SP125C PG76-22 TONS	BP-1 PG58-28H TONS	TACK GALS	TYPE 1 AGGR TONS	MODIFIED COLDMILLING SQYD	COLDMILLING LESS THAN 3" SQYD
124.260	131.100	EBL 36	18128.75	4220.18	17616.24	492.10	6872.60	135988.20
61.637	69.560	WBL 36	20275.32	4385.39	19348.87	537.00	5055.80	155239.00
		TOTAL	38404.1	8605.6	36965.1	1029.1	11928.4	291227.2
		USE	38404.1	8605.6	36966	1029	11928	291227

WB 36 MODIFIED COLDMILLING DEPTH TRANSITION

LOG MILE	LOG MILE	LENGTH FT.	WIDTH FT.	DEPTH IN.	SQ.YD.	REMARKS
61.669	61.692	125.00	38.00	2" - 0.75"	527.8	TRANSITION FROM 2" MILL/FILL TO OVELAY
-	-	125.00	18.00	0.75" - 2"	250.0	EXIT RAMP @ 63 BUTT JOINT (MATCH NEW CONSTRUCTION LINE)
62.320	62.343	125.00	38.00	0.75" - 2"	527.8	TRANSITION TO MILL/FILL
-	-	125.00	18.00	2" - 0.75"	250.0	TOP OF ENTRANCE RAMP APPROACH @ 63 TOP OF EXIT RAMP APPROACH @ 63 0.75"-2"
64.562	64.585	125.00	40.00	2" - 0.75"	555.6	LONG BRANCH BRIDGE 2" TO 0.75" MILL TRANSITION
-	-	125.00	18.00	2" - 0.75"	250.0	LONG BRANCH RD. ENTRANCE RAMP
65.840	65.863	125.00	40.00	0.75" - 2"	555.6	DEPTH TRASITION TO MILL/FILL UNDER BRIDGE
65.957	65.980	125.00	40.00	2" - 0.75"	555.6	DEPTH TRASITION FROM MILL/FILL UNDER BRIDGE
67.477	67.500	125.00	38.00	0.75" - 2"	527.8	0.75" OVERLAY TO 2" M & F
68.201	68.224	125.00	38.00	2" - 0.75"	527.8	TRANSITION FROM 2" MILL/FILL TO 3/4" MILL
69.527	69.560	125.00	38.00	0.75" - 2"	527.8	END PROJECT TRANSITION
					SUBTOTAL	5055.8

BITUMINOUS SHOULDER RUMBLE STRIP

LOG MILE	LOG MILE	LOCATION	QUANTITY STA.	DESCRIPTION
EBL RTE 36				
124.260	131.100	RTE 36	361.15	INSIDE SHOULDER
124.260	131.100	RTE 36	361.15	OUTSIDE SHOULDER
		RTE 36	59.85	OUTSIDE SHOULDER EXCEPTIONS
		RTE 36	11.75	INSIDE SHOULDER EXCEPTIONS
SUBTOTAL			650.7	
WBL RTE 36				
61.650	69.560	RTE 36	417.6	RT SHOULDER
61.650	69.560	RTE 36	417.6	LT SHOULDER
		RTE 36	90.3	OUTSIDE SHOULDER EXCEPTIONS
		RTE 36	7.2	INSIDE SHOULDER EXCEPTIONS
SUBTOTAL			737.7	
TOTAL			1388.4	

NOTE: QUANTITIES REFLECT EXCEPTIONS AT SIDE ROADS, RAMPS, AND BRIDGES

STATE OF MISSOURI

KEITH ALLEN MILLEN

NUMBER

PE-2007020292

PROFESSIONAL ENGINEER



06/17/2025 1:34:56 PM

KEITH ALLEN MILLEN - CIVIL

MO-PE-2007020292

DATE PREPARED

6/17/2025

ROUTE

36

STATE

MO

DISTRICT

NE

SHEET NO.

3

COUNTY

MACON

JOB NO.

JNE0120

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)

SUMMARY OF QUANTITIES
SHEET 4 OF 7

SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	ITEM	TOTAL	EFFECTIVE: 07-01-2025
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	IN.		SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	NUMBER	QTY		DESCRIPTION		
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24.00			49	GORE EXIT	6122008		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00	1	12.00			56	EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	4	40.00			1	ROAD WORK NEXT 7, 8 MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	4	32.00			26	END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	4	24.00			54	WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001	1	TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	400*	CHANNELIZER (TRIM-LINE)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93	2	13.86			13	YIELD	6161026		CHANNELIZER (VERTICAL PANEL)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	15*	TYPE 3 MOVEABLE BARRICADE
WO3-2	48X48	16.00	2	32.00			40	YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033	62*	DIRECTION INDICATOR BARRICADE
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	8	96.00			4, 25	SPEED LIMIT 55, 65	6161040	4*	FLASHING ARROW PANEL
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER
WO4-1R	48X48	16.00	2	32.00			55	MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO4-1aL	48X48	16.00	2	32.00			6A	MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT			COMMISSION FURNISHED/RETAINED
WO5-1	48X48	16.00	2	32.00			43	ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00	4	48.00			46	DO NOT PASS			CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00	4	48.00			46A	PASS WITH CARE	6161098A	2	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)			INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
WO8-1	48X48	16.00	2	32.00			50	BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)			CONTRACTOR FURNISHED/RETAINED
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)			CONTRACTOR FURNISHED/RETAINED
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED	6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			CONTRACTOR FURNISHED/RETAINED
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00	1	10.00				ROAD CLOSED	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
WO8-11	48X48	16.00	10	160.00			36	UNEVEN LANES	CONST-3A	60X48	20.00	4	80.00			53	ROAD CLOSED TO THRU TRAFFIC	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8-12	48X48	16.00						NO CENTER LINE	CONST-3X	56X12	4.67	4	18.68			53A	FINE SIGN	9029400		TEMPORARY TRAFFIC SIGNALS
WO8-15	48X48	16.00	2	32.00				GROOVED PAVEMENT	MISCELLANEOUS SIGNS									616-99.01	1	LUMP SUM TEMPORARY TRAFFIC CONTROL (*ITEM INCLUDED)
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE			
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00						POINT OF PRESENCE			
WO8-17R	48X48	16.00	9	144.00			23	SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	4	48.00			51	WORK ZONE NO PHONE ZONE			
WO8-17P	30X24	5.00	9	45.00			23	SHOULDER DROP-OFF (PLAQUE)	CONST-5P	42X6	21.00						COMPLETED AS PROMISED			
W10-1	42RND.	9.62						RAILROAD CROSSING	SPECIAL	96X24	16.00	2	32.00				CLOSED			
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)												
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)												
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)												
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)												
WO12-4	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						ADVISORY SPEED (PLAQUE)												
WO16-2	30X24	5.00						XXX FEET (PLAQUE)												
WO16-3	30X24	5.00						X MILE (PLAQUE)												
WO20-1	48X48	16.00	12	192.00			2	ROAD/BRIDGE/RAMP WORK AHEAD	616-10.05 CONSTRUCTION SIGNS											
WO20-2	48X48	16.00						DETOUR AHEAD	TOTAL											
WO20-3	48X48	16.00	2	32.00			8	ROAD CLOSED AHEAD	616-10.10 RELOCATED SIGNS											
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD												
WO20-5	48X48	16.00	4	64.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD												
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD												
WO20-6a	48X48	16.00	4	64.00			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	4	64.00			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	2	4.38				WET PAINT (ARROW PIVOTS)												

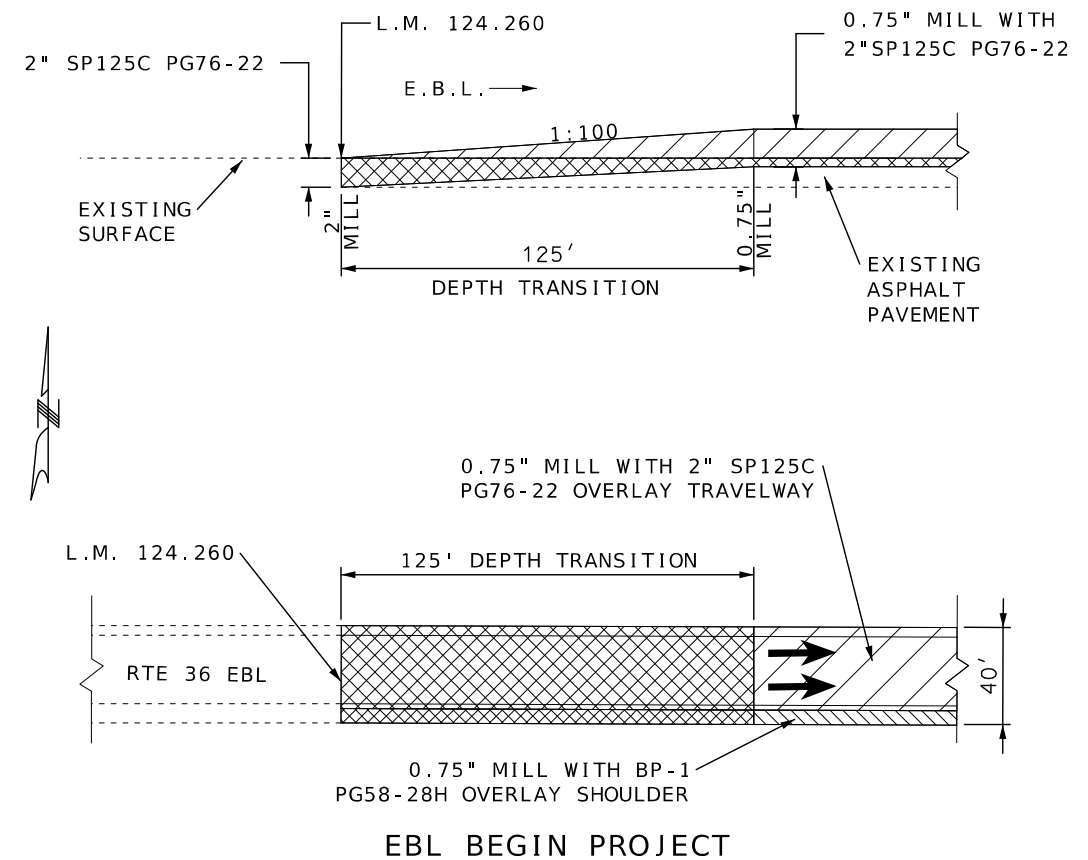
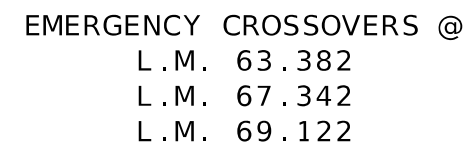
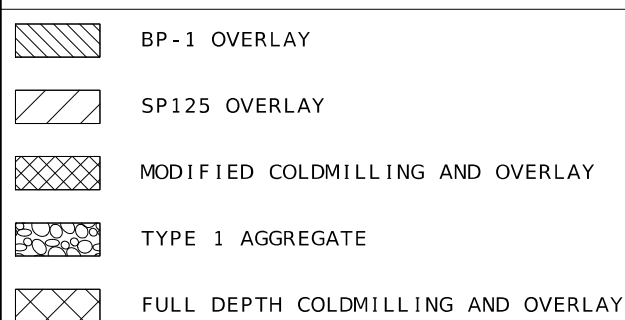
STATE OF MISSOURI
KEITH ALLEN KILLEN
NUMBER
PE-0007020292
PROFESSIONAL ENGINEER
06/02/2025 1:46:39 PM
KEITH ALLEN KILLEN - CIVIL
MO-P.E.0007020292
DATE PREPARED
6/2/2025

ROUTE
36
STATE
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DISTRICT
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SHEET NO.
3
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JNE0120
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BRIDGE NO.

DESCRIPTION
DATE

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

SUMMARY OF QUANTITIES
SHEET 7 OF 7



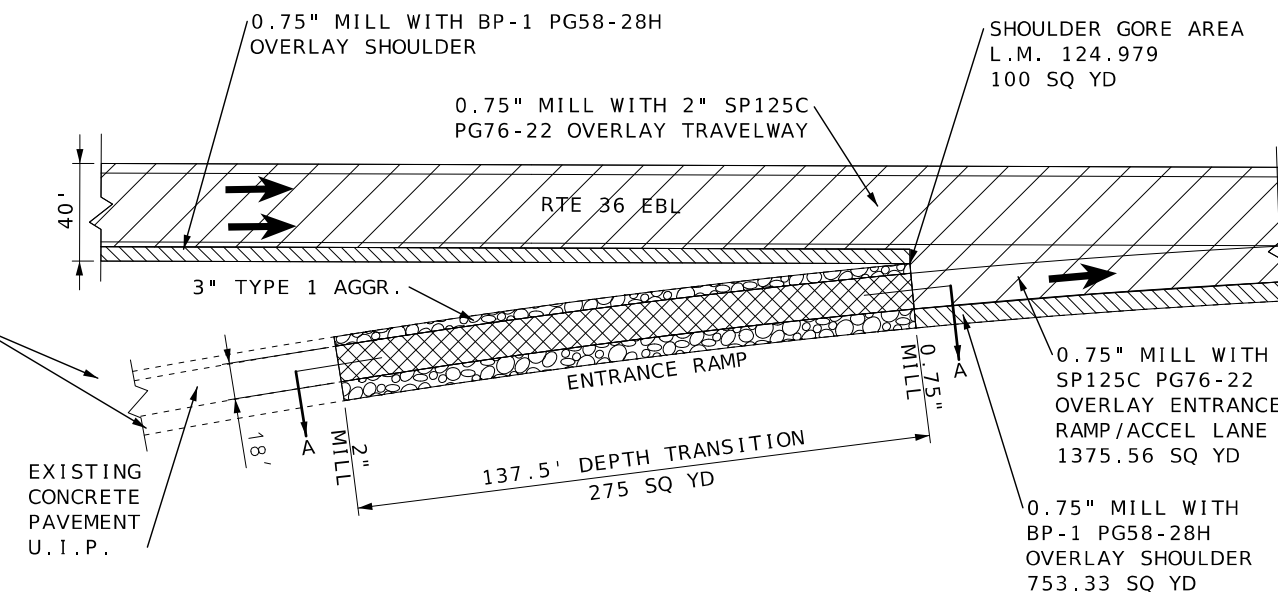
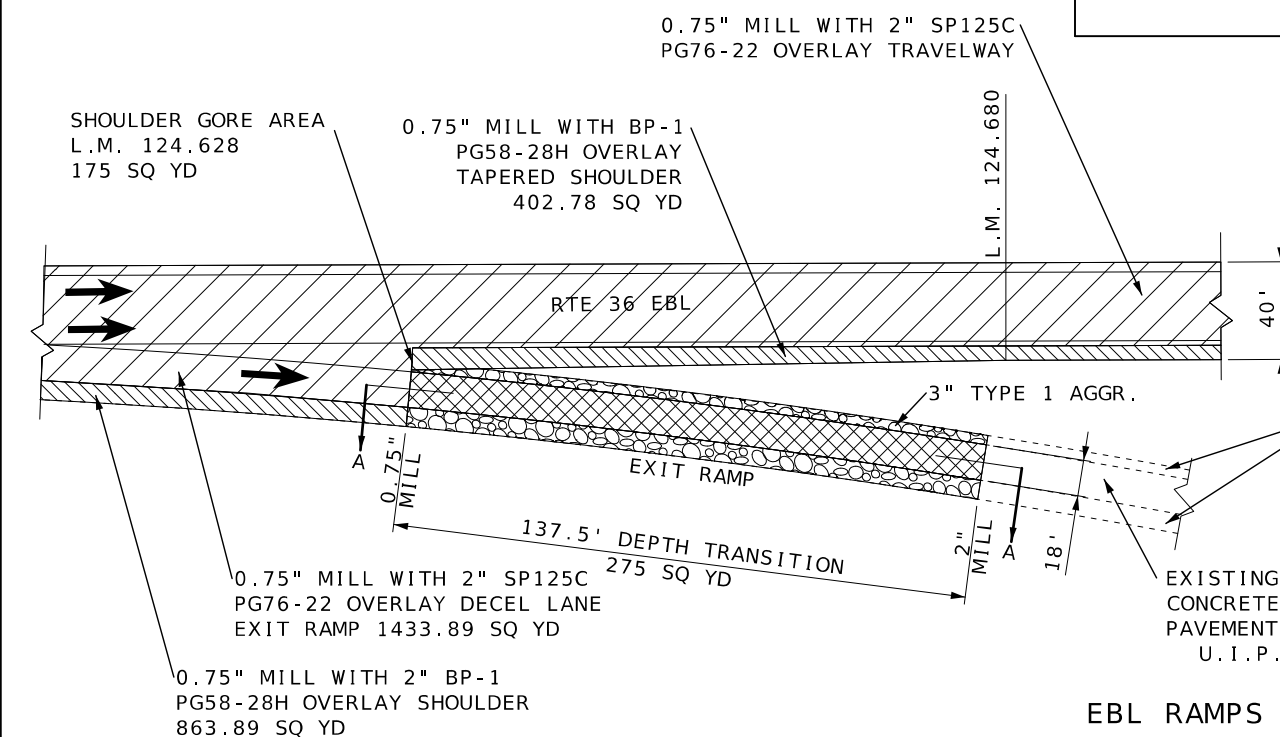
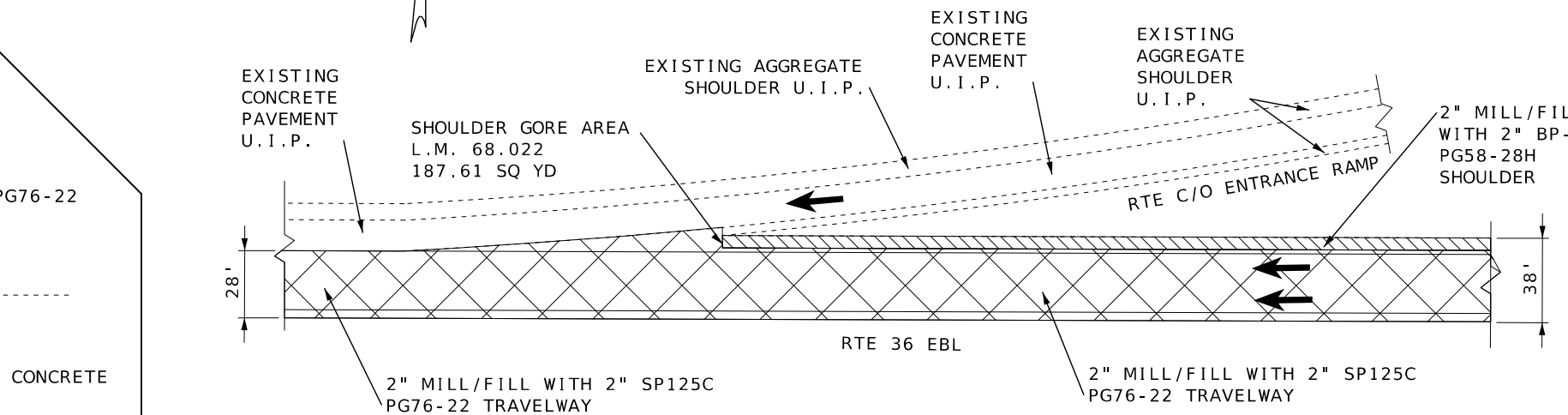
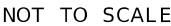
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MISSOURI DEPARTMENT OF TRANSPORTATION
COMMISSION

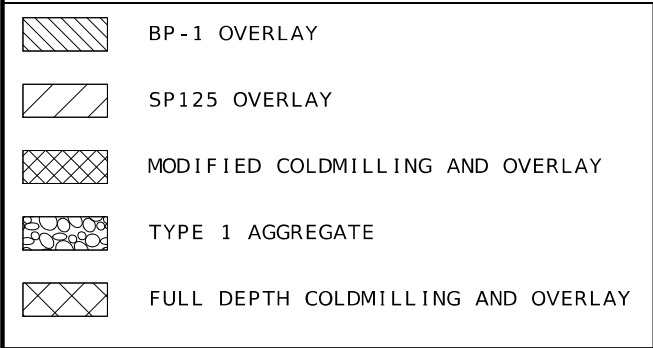
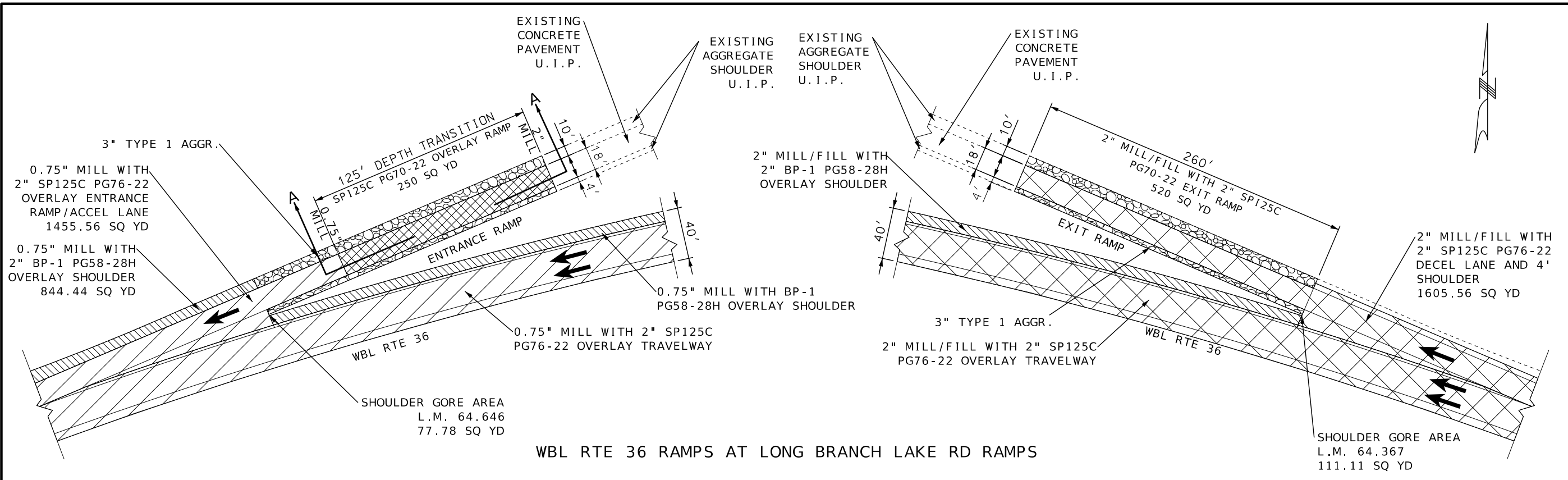
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JEFFERSON CITY, MO 65102
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SPECIAL SHEET
SHEET 1 OF 11

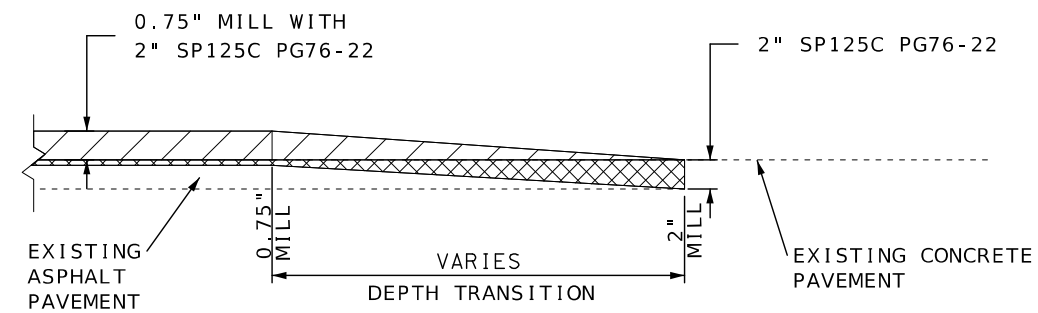


EBL RAMPS AT RTE. C/O INTERCHANGE

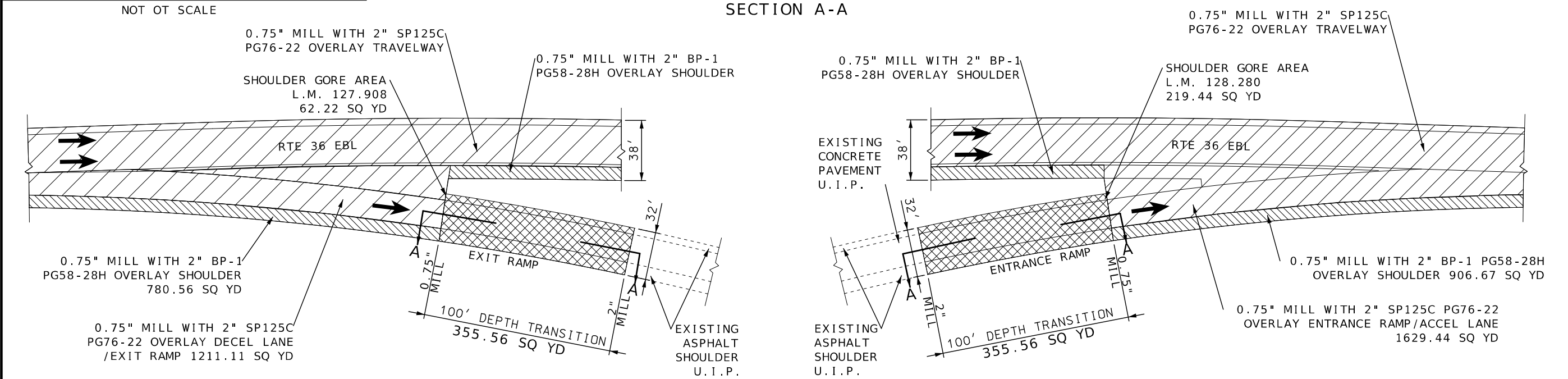




WBL RTE 36 RAMPS AT LONG BRANCH LAKE RD RAMPS



SECTION A-A



EBL RTE 36 RAMPS AT LONG BRANCH LAKE RD RAMPS

DATE PREPARED
6/16/2025

ROUTE 36	STATE MO
DISTRICT NE	SHEET NO. 6

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

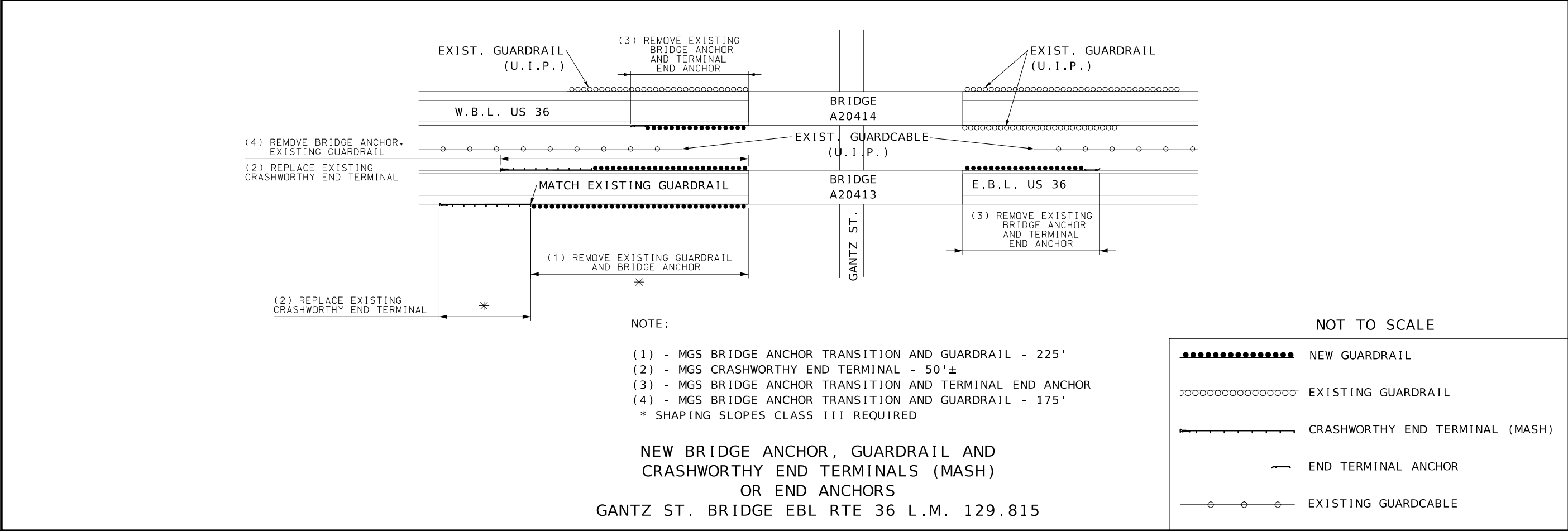
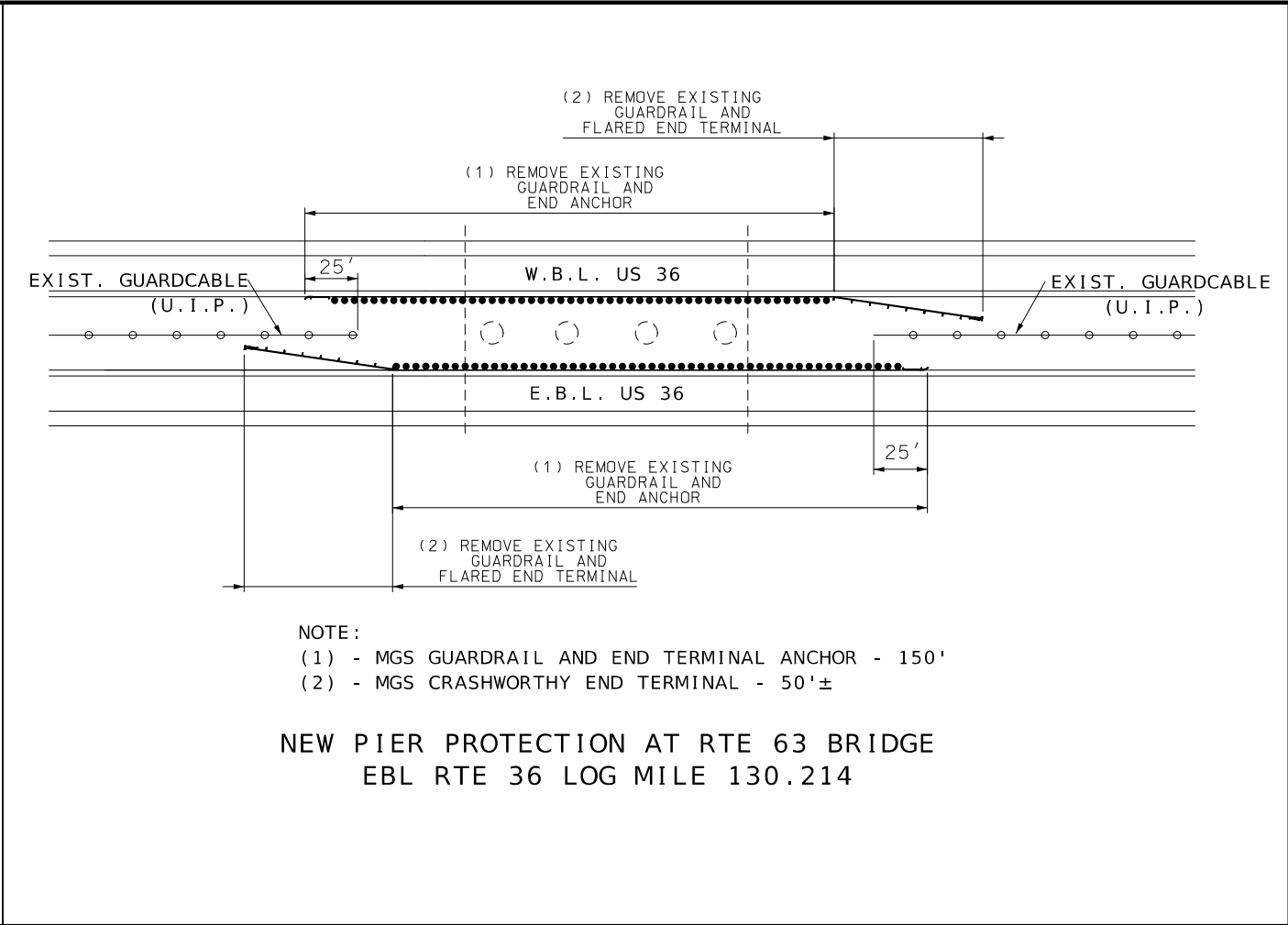
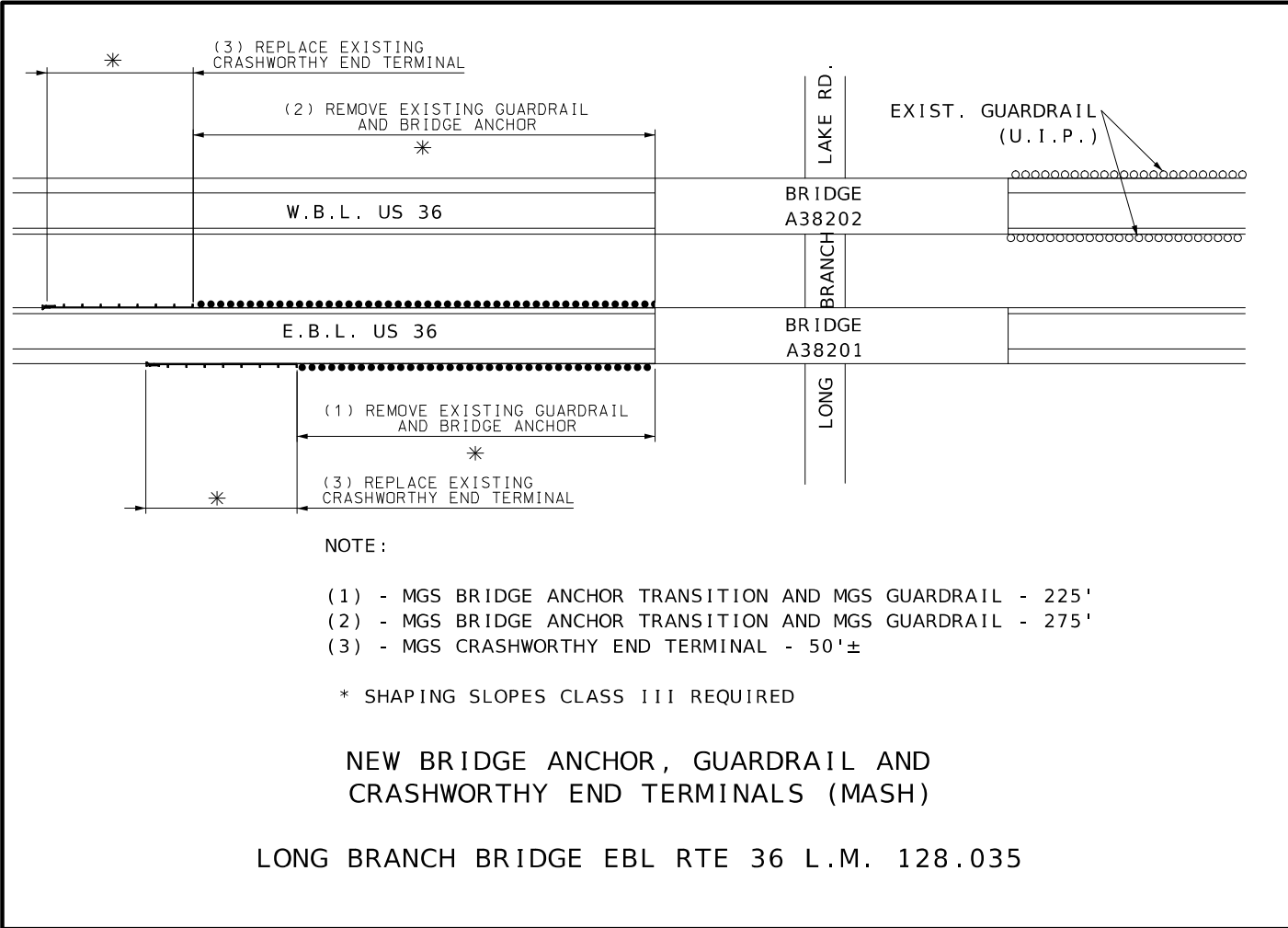
PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
SHEET 3 OF 11



STATE OF MISSOURI
KETH ALLEN KILLEN
NUMBER
PE-2007020292
PROFESSIONAL ENGINEER
06/17/2025 11:06:54 AM
KETH ALLEN KILLEN - CIVIL
MO-PE-2007020292

DATE PREPARED
6/16/2025

ROUTE
36

STATE
MO

DISTRICT
NE

SHEET NO.
10

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

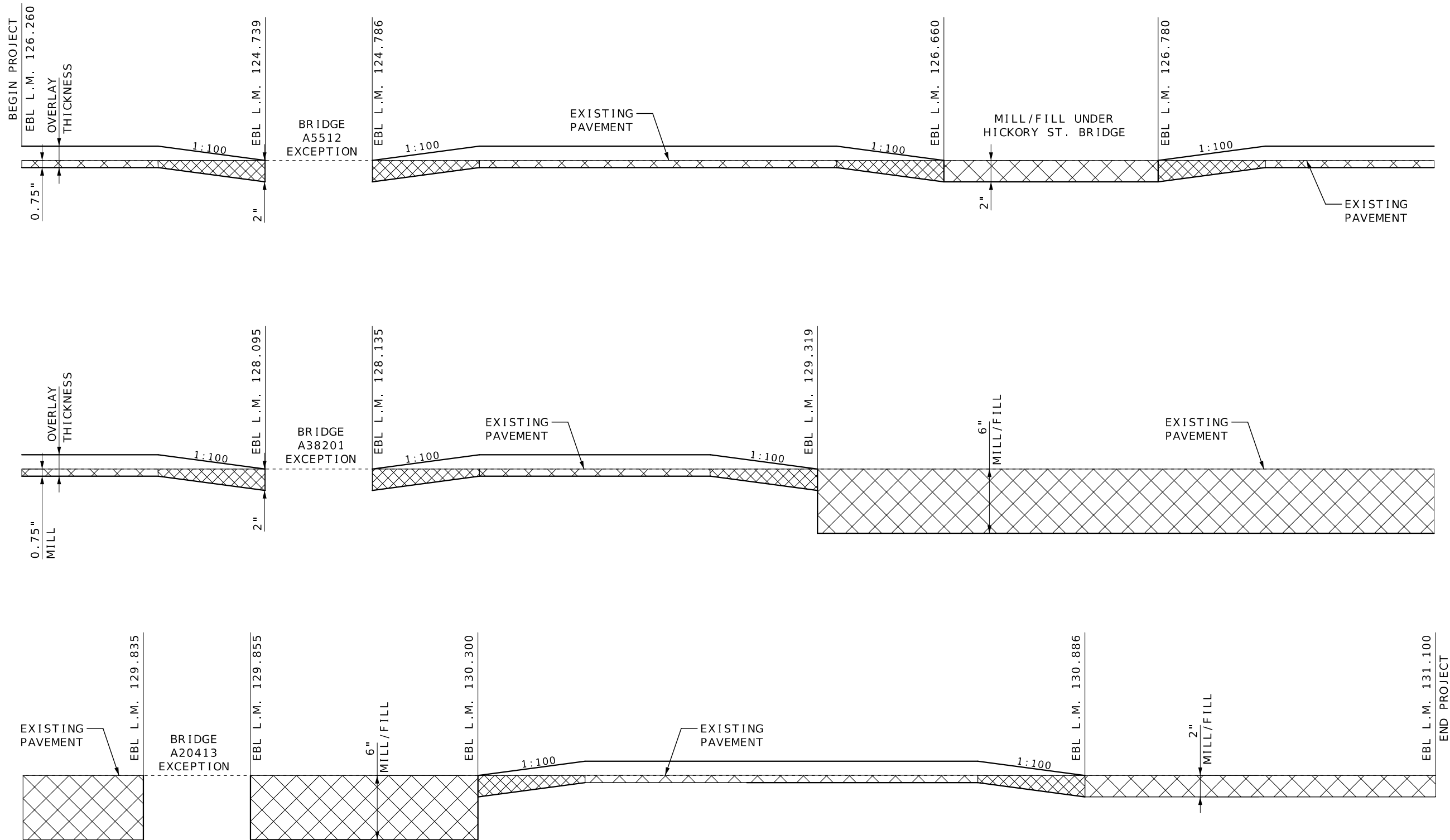
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

SPECIAL SHEET
SHEET 7 OF 11

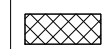
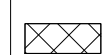


NOT TO SCALE



EBL RTE 36 LONGITUDINAL DIAGRAM

NOT TO SCALE

-  MODIFIED COLDMILLING AND OVERLAY
-  FULL DEPTH COLDMILLING AND OVERLAY



DATE PREPARED
6/16/2025

ROUTE 36
DISTRICT NE
STATE MO
SHEET NO. 12

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

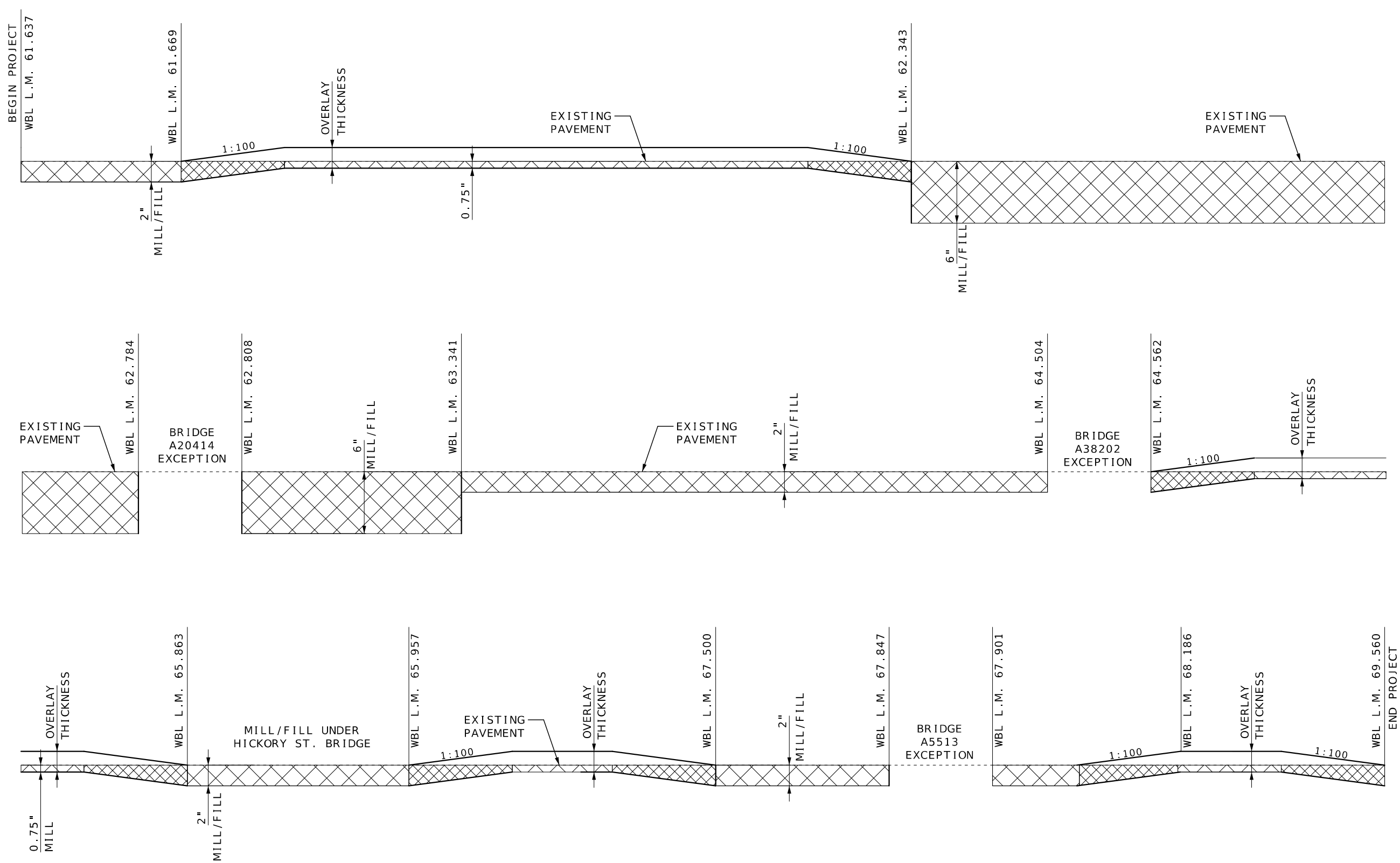
PROJECT NO.

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 9 OF 11



WBL RTE 36 LONGITUDINAL DIAGRAM

NOT TO SCALE

- MODIFIED COLDMILLING AND OVERLAY
- FULL DEPTH COLDMILLING AND OVERLAY



DATE PREPARED
6/16/2025

ROUTE 36
DISTRICT NE
STATE MO
SHEET NO. 13

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

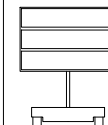
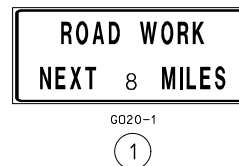
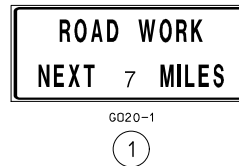
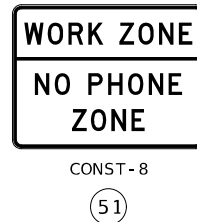
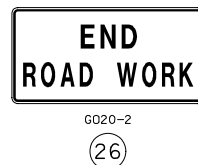
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

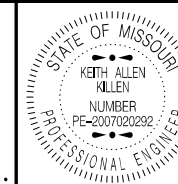
SPECIAL SHEET
SHEET 10 OF 11

	SIGN (SINGLE SIDED)
	CHANNELIZER
	BARRICADE
	CHANGEABLE MESSAGE BOARD



CONTRACTOR FURNISHED/RETAINED
CHANGEABLE MESSAGE SIGN (CMS)

NOTE: ONE CMS BOARD SHALL BE PLACED
AT THE BEGINNING OF PROJECT LIMITS ONE
WEEK PRIOR TO START OF WORK TO NOTIFY
MOTORISTS OF UPCOMING CONSTRUCTION, EXACT
LOCATION AND MESSAGE AS DIRECT BY THE ENGINEER.



06/17/2025 11:06:54 AM
KEITH ALLEN KILLEN - CIV
MO-PE-2007020292

DATE PREPARED
6/16/2025

ROUTE	STA
36	MO

DISTRICT	SHEET
NE	15

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

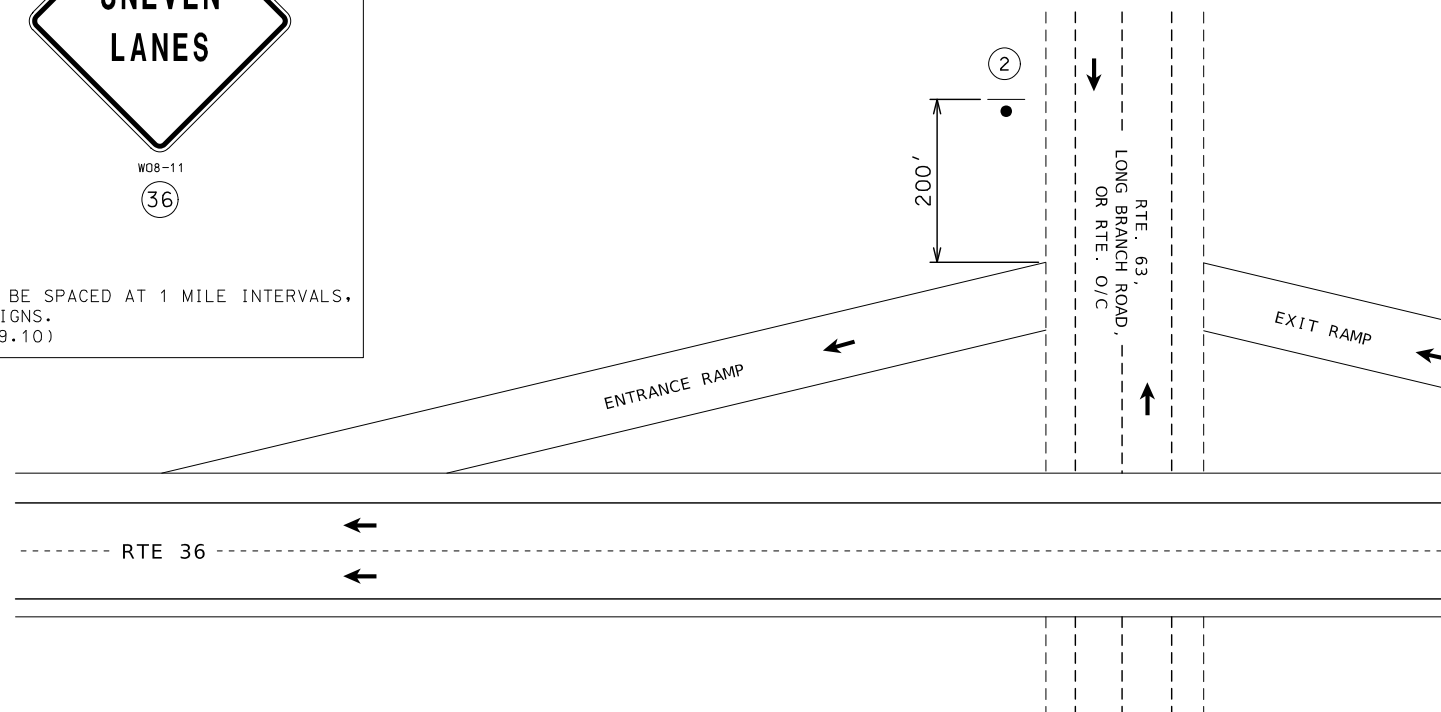
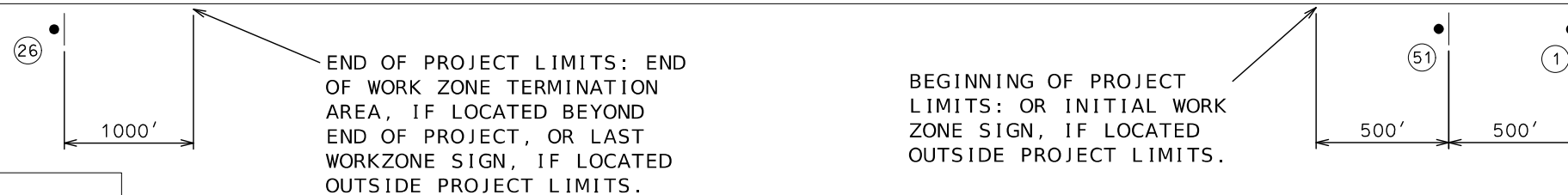
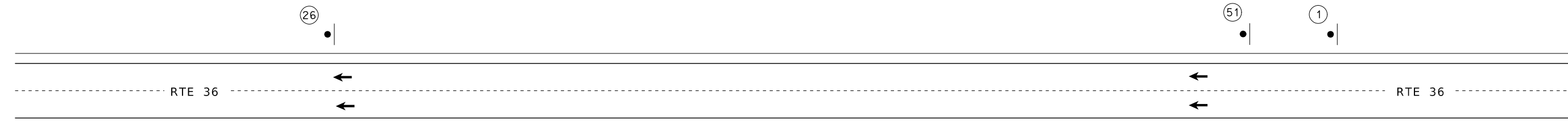
PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TRAFFIC CONTROL
SHEET 1 OF 8



SIDE ROAD INTERSECTION

NOTES :

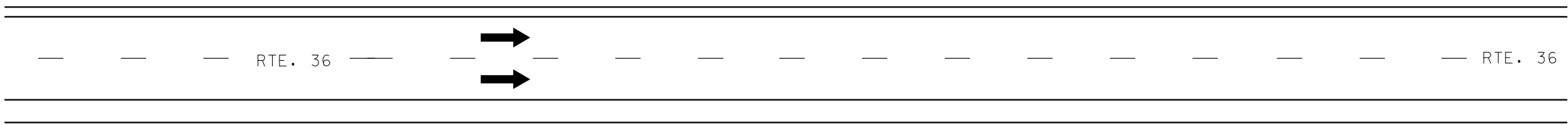
ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED
TRAFFIC CONTROL PLAN SHALL BE COVERED, NO DIRECT PAY.

ALL SIGNS AND DEVICES ARE CONSIDERED PORTABLE. NO DIRECT PAYMENT WILL BE MADE FOR ANY RELOCATIONS OF SIGNS AND DEVICES.

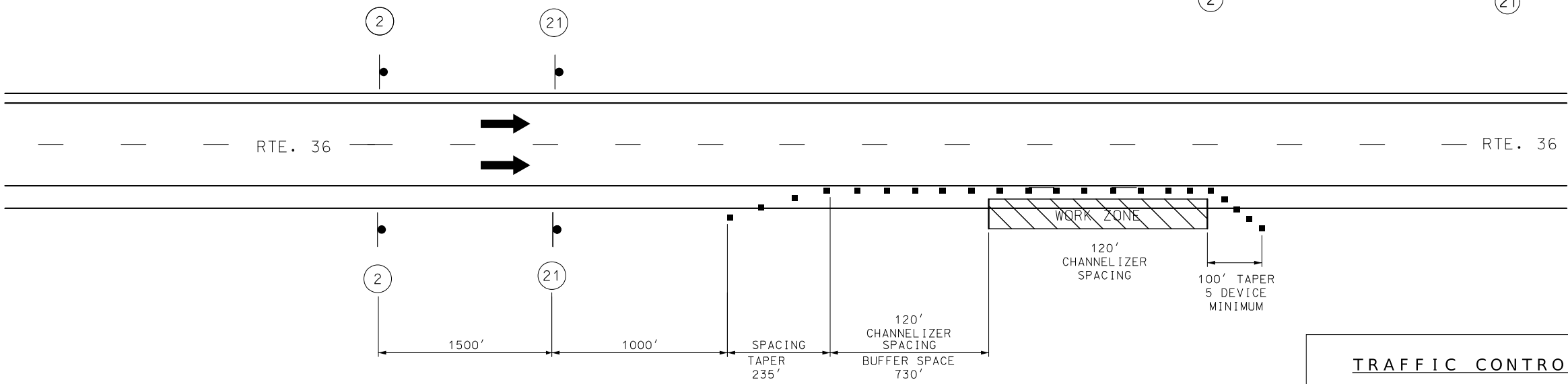
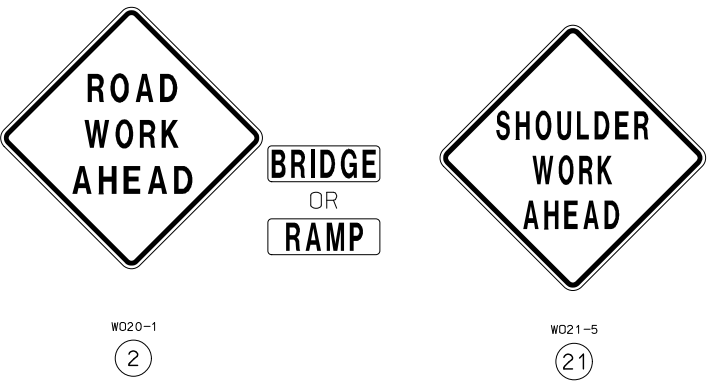
ADJUST CHANNELIZER SPACING, SIGN SPACING AND LOCATION
AS REQUIRED BY FIELD CONDITIONS AS DIRECTED BY
THE ENGINEER.

STATE ROUTE OR SIDE ROAD AT INTERCHANGE

DURATION OF PROJECT



STATIONARY WORK BEYOND THE SHOULDER
(DIVIDED HIGHWAY)



GENERAL NOTES

1. USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.
2. SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
3. ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.
4. SIGN #21 DOES NOT NEED AN AWRS IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SHOULDER WORK
(DIVIDED HIGHWAY)

TRAFFIC CONTROL LEGEND

- WORK AREA
- SIGN (SINGLE SIDED)
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- CHANNELIZER
- TYPE III MOVABLE BARRICADE
- CHANGEABLE MESSAGE BOARD



DATE PREPARED
6/2/2025

ROUTE 36 STATE MO
DISTRICT NE SHEET NO. 17

COUNTY
MACON
JOB NO.
JNE0120
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

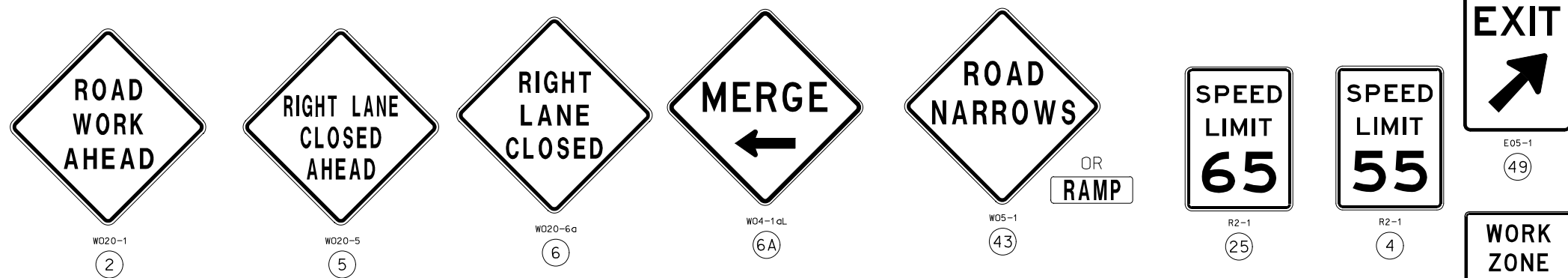
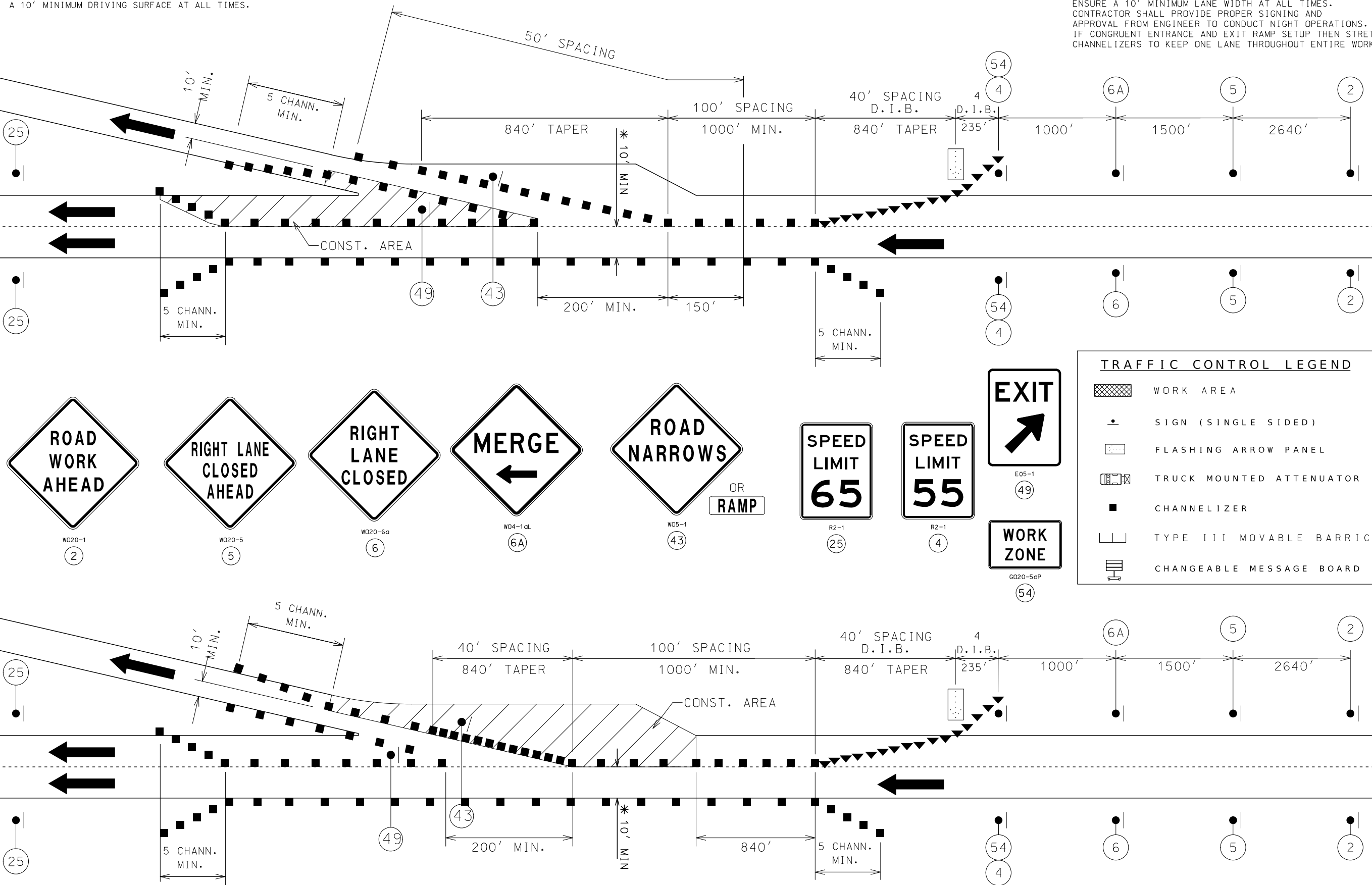
DESCRIPTION	DATE

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

TRAFFIC CONTROL
SHEET 3 OF 8

* - THE OPEN TO TRAFFIC LANE SHALL PROVIDE A 10' MINIMUM DRIVING SURFACE AT ALL TIMES.

NOTES:
RAMP CONSTRUCTION SHALL BE STAGED TO ENSURE A 10' MINIMUM LANE WIDTH AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNING AND APPROVAL FROM ENGINEER TO CONDUCT NIGHT OPERATIONS. IF CONGRUENT ENTRANCE AND EXIT RAMP SETUP THEN STRETCH CHANNELIZERS TO KEEP ONE LANE THROUGHOUT ENTIRE WORKZONE.



STATE OF MISSOURI
KEITH ALLEN KILLEN
NUMBER
PE-2007020292
PROFESSIONAL ENGINEER
06/02/2025 2:19:38 PM
KEITH ALLEN KILLEN - CIVIL
MO-PE-2007020292

DATE PREPARED
6/2/2025

ROUTE
36

DISTRICT
NE

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

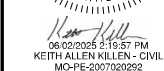
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 4 OF 8

NOTE:

* - THE OPEN TO TRAFFIC LANE SHALL PROVIDE A 10' MINIMUM DRIVING SURFACE AT ALL TIMES



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

DISTRICT	SHEET NO.
----------	-----------

NE	15
COUNTY	

MACON
JOB NO.

JNE0120
CONTRACT ID

PROJECT NO. _____

BRIDGE NO.

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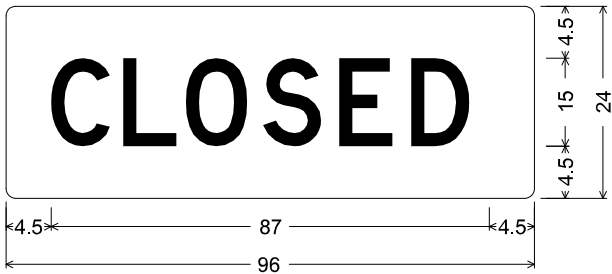
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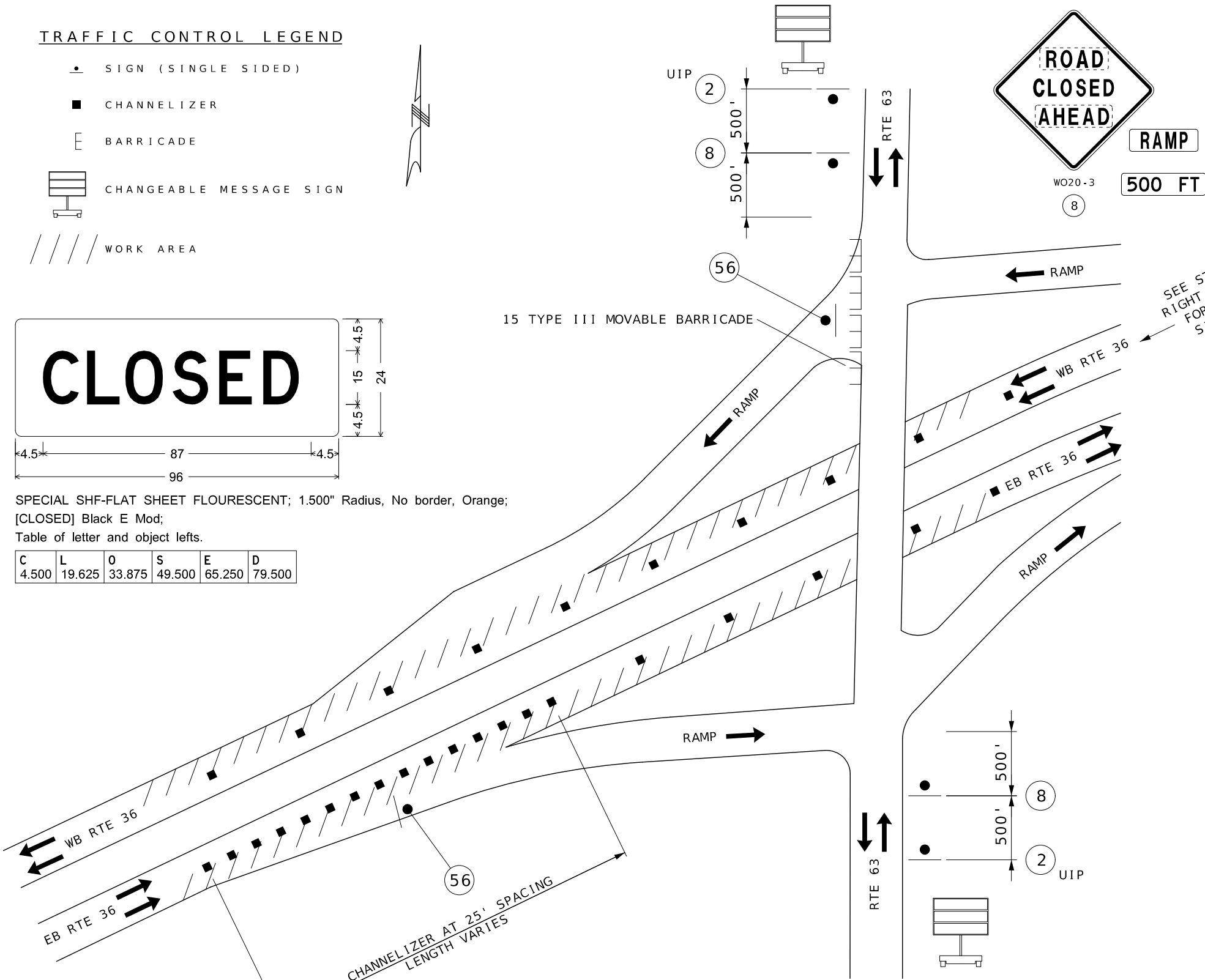
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- CHANGEABLE MESSAGE SIGN
- WORK AREA



SPECIAL SHF-FLAT SHEET FLOURESCENT; 1.500" Radius, No border, Orange;
[CLOSED] Black E Mod;
Table of letter and object lefts.

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



SEE STATIONARY LEFT OR
RIGHT LANE CLOSURE SHEET
FOR ADVANCED WARNING
SIGNAGE, SPACING AND
LANE SHIFT

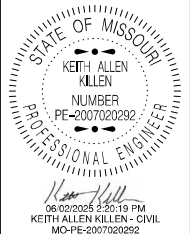
THE "CLOSED" PLAQUE SHALL BE PLACED ON THE
LARGE GREEN EXIT GUIDE SIGNS UPSTREAM OF THE
RAMP CLOSURE AT A 45° ANGLE



TYPICAL LAYOUT FOR RAMP CLOSURE

RTE 36 EB OFF RAMP
RTE 36 WB ON RAMP

NOT TO SCALE

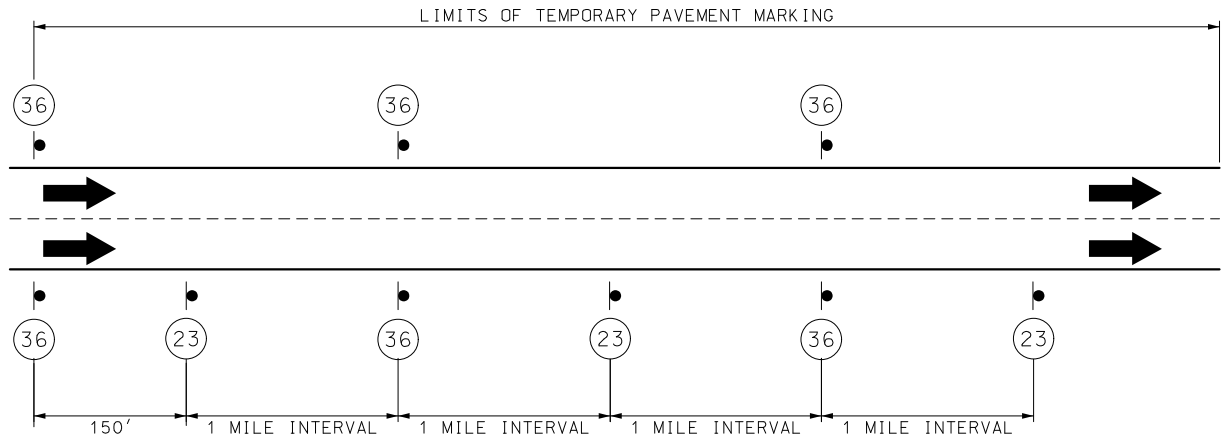


DATE PREPARED 6/2/2025	
ROUTE 36	STATE MO
DISTRICT NE	SHEET NO. 20
COUNTY MACON	
JOB NO. JNE0120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

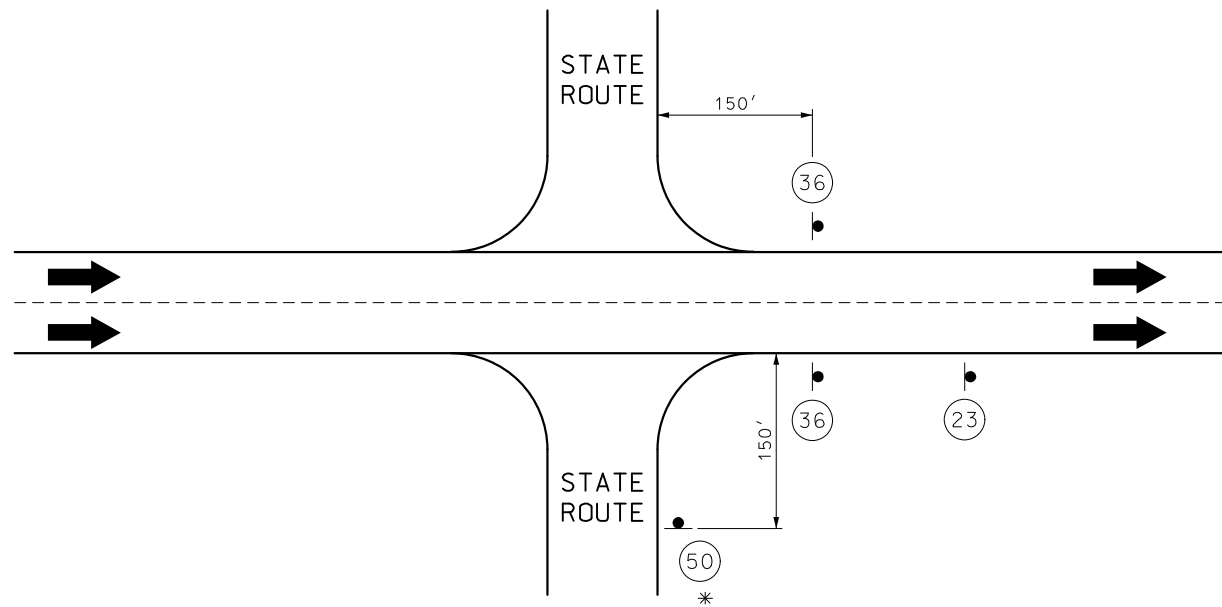
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



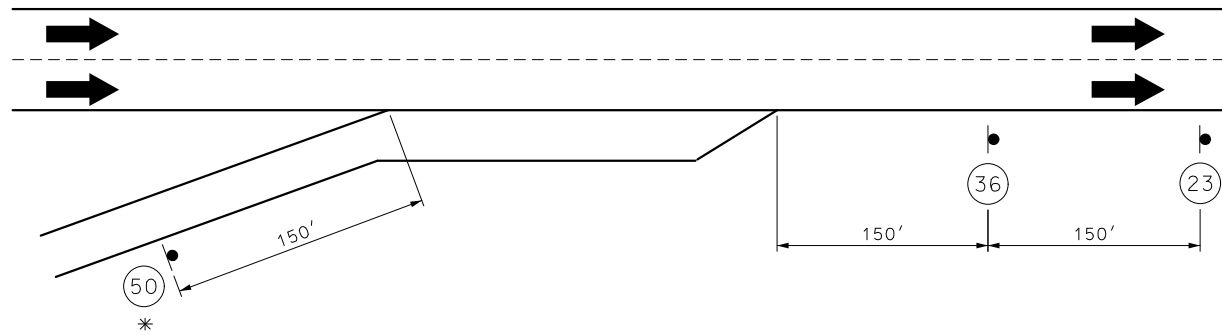
SIGN SPACING FOR DIVIDED OR MULTI-LANE HIGHWAY

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



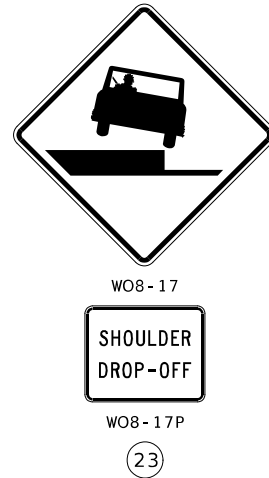
SIGN SPACING AT STATE ROUTE INTERSECTIONS

* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLANS 619.10

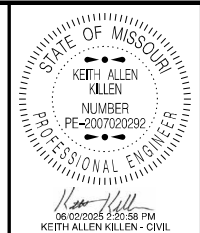


SIGN SPACING AT RAMPS

* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLANS 619.10



GENERAL NOTES:
FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE SHEET 1 OF 5 STD. PLAN 620.10
ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLANS 616.10 AND 903.03
WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

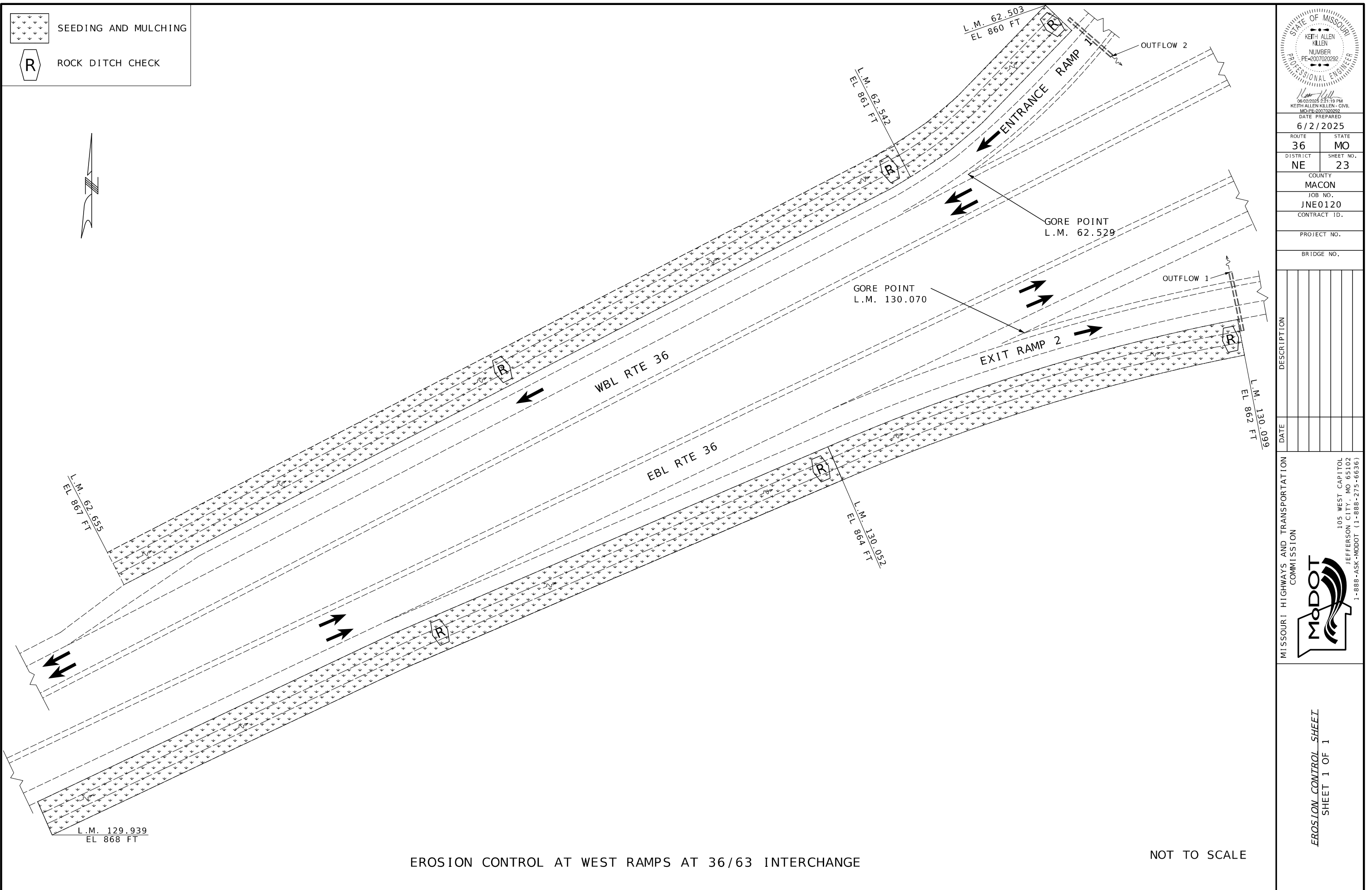


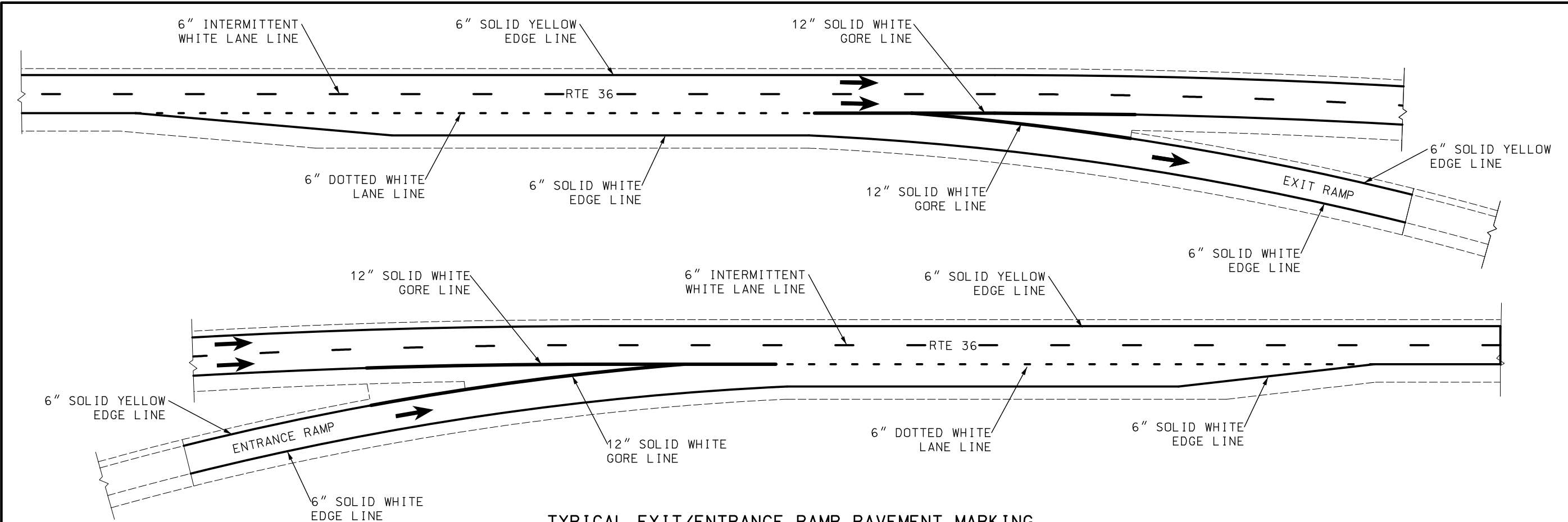
DATE PREPARED 6/2/2025	
ROUTE 36	STATE MO
DISTRICT NE	SHEET NO. 22
COUNTY MACON	
JOB NO. JNE0120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

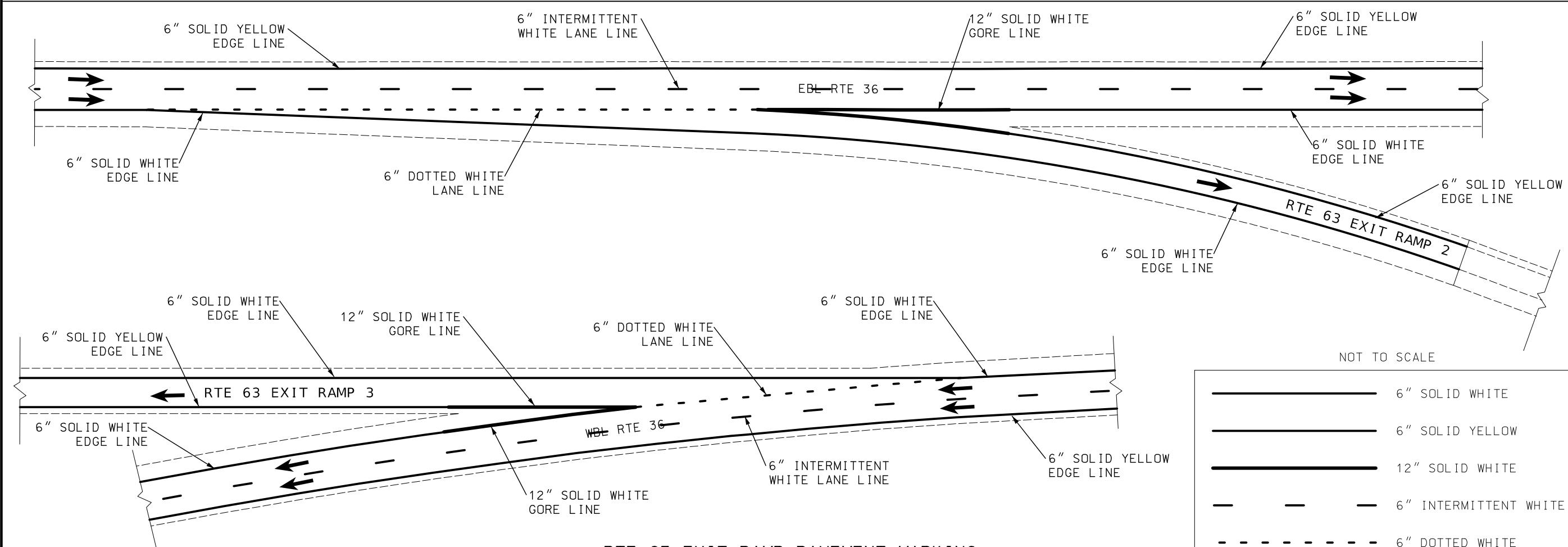
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





TYPICAL EXIT/ENTRANCE RAMP PAVEMENT MARKING



RTE 63 EXIT RAMP PAVEMENT MARKING

NOT TO SCALE

	6" SOLID WHITE
	6" SOLID YELLOW
	12" SOLID WHITE
	6" INTERMITTENT WHITE
	6" DOTTED WHITE

STATE OF MISSOURI

KEITH ALLEN KILLEN

NUMBER

PE-2007020292

PROFESSIONAL ENGINEER

06/02/2025 2:21:39 PM

KEITH ALLEN KILLEN - CIVIL

MO-PE-2007020292

DATE PREPARED

6/2/2025

ROUTE

36

STATE

MO

DISTRICT

NE

SHEET NO.

24

COUNTY

MACON

JOB NO.

JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

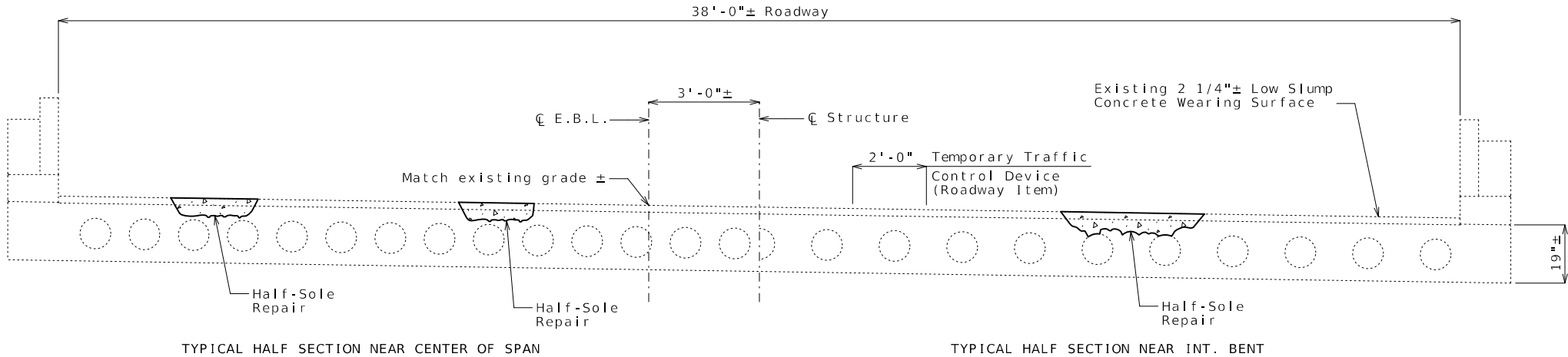
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING

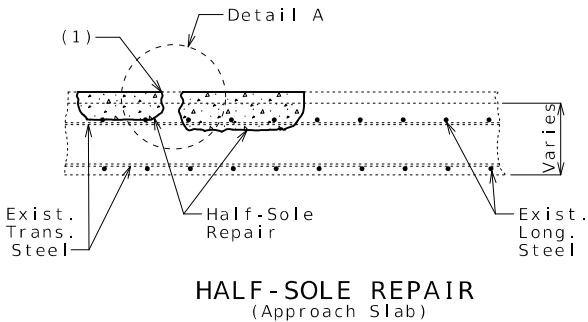
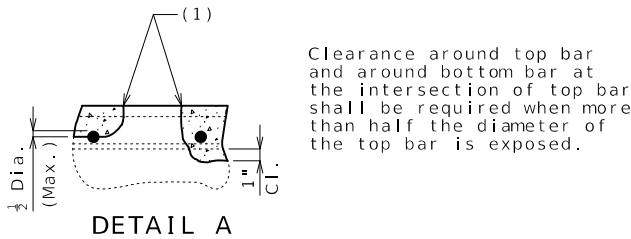
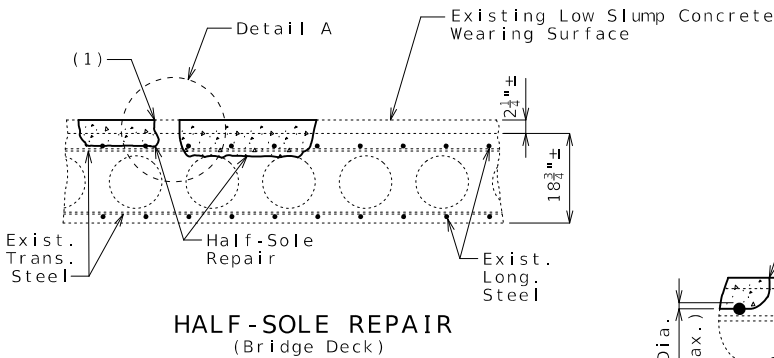
SHEET 1 OF 1

U.I.P. AND REHABILITATE EXISTING (35'-51'-33') CONTINUOUS CONCRETE VOIDED SLAB SPANS



TYPICAL SECTION THRU EXISTING DECK

Estimated Quantities		
Item		Total
Half-Sole Repair	sq. foot	50



General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:
HS20-44 (1965)

Design Unit Stresses:
Class B-1 Concrete (Half-Sole Repair) f'c = 4,000 psi

Miscellaneous:
Roadway surfacing adjacent to bridge ends shall match existing bridge wearing surface (Roadway Item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Traffic Handling:
Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE 36 E.B.L.
OVER GANTZ STREET
ROUTE 36 FROM ROUTE C TO ROUTE 63
ABOUT 0.4 MILES WEST OF ROUTE 63
BEGINNING STATION 1126+13.20± (Match Existing)

STATE OF MISSOURI
TYLER R. LINDSAY
NUMBER
PE-2019000128
PROFESSIONAL ENGINEER
04/16/2025 6:14:26 AM
TYLER R. LINDSAY - CIVIL
MO-PE-2019000128

DATE PREPARED
4/15/2025

ROUTE
36

DISTRICT
BR

STATE
MO

SHEET NO.
1

COUNTY
MACON

JOB NO.
JNE0120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A20413

DESCRIPTION

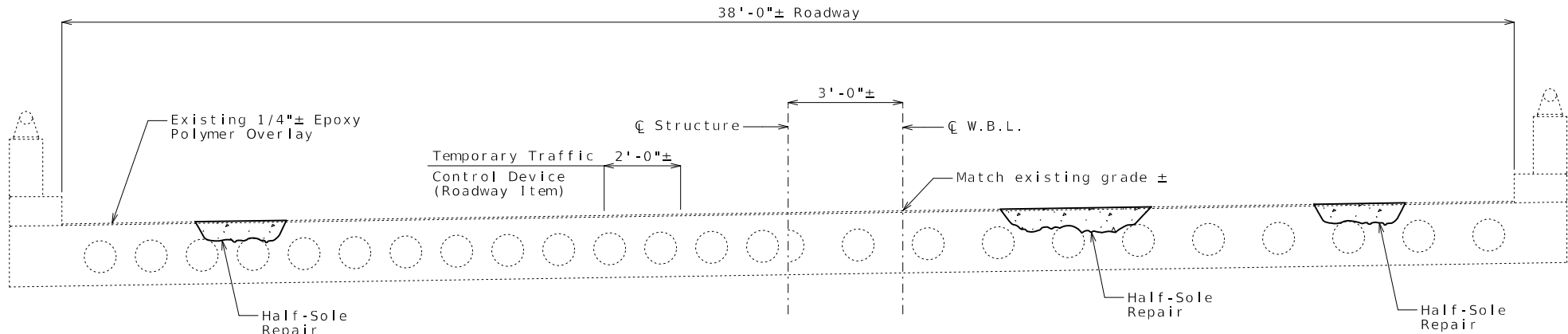
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

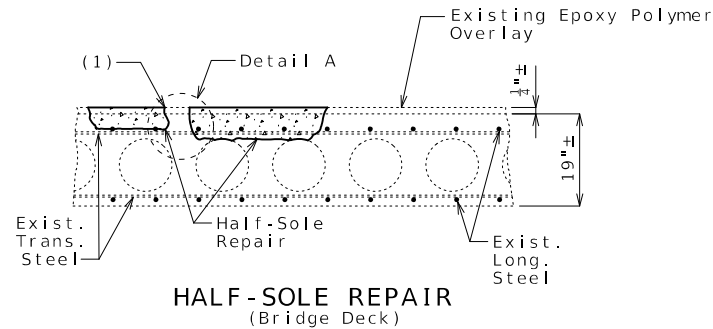
U.I.P. AND REHABILITATE EXISTING (35'-51'-33') CONTINUOUS CONCRETE VOIDED SLAB SPANS



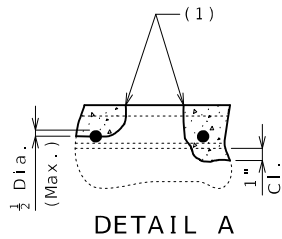
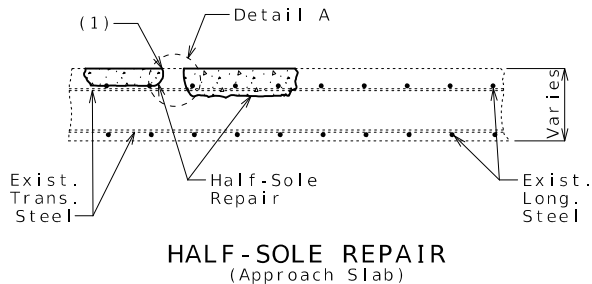
TYPICAL HALF SECTION NEAR CENTER OF SPAN

TYPICAL HALF SECTION NEAR INT. BENT

TYPICAL SECTION THRU EXISTING DECK



(1) 1" vertical side shall be established outside the deteriorated area.



Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.

Estimated Quantities		
Item		Total
Half-Sole Repair	sq. foot	50

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:

HS20-44 (1965)

Design Unit Stresses:

Class B-1 Concrete (Half-Sole Repair) $f'c = 4,000$ psi

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match existing bridge wearing surface (Roadway Item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

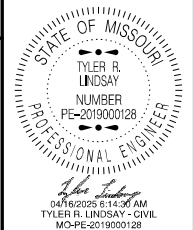
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE 36 W.B.L. OVER GANTZ STREET

ROUTE 36 FROM ROUTE 63 TO ROUTE C
ABOUT 0.4 MILES WEST OF ROUTE 63
BEGINNING STATION 1126+13.20± (Match Existing)



DATE PREPARED 4/15/2025	
ROUTE 36	STATE MO
DISTRICT BR	SHEET NO. 1

COUNTY MACON
JOB NO. JNE0120
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A20414

DATE	DESCRIPTION



ROUTE 63

A.A.D.T.	- 2022	=	14,086
A.A.D.T.	- 2042	=	17,185
D.H.V.		=	8.6%
T		=	11.6%
V		=	35 M.P.H.
D		=	50%

FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

ROUTE 36

A.A.D.T.	- 2022	=	10,079
A.A.D.T.	- 2042	=	12,269
D.H.V.		=	9.3%
T		=	36.4%
V		=	65 M.P.H.
D		=	50%

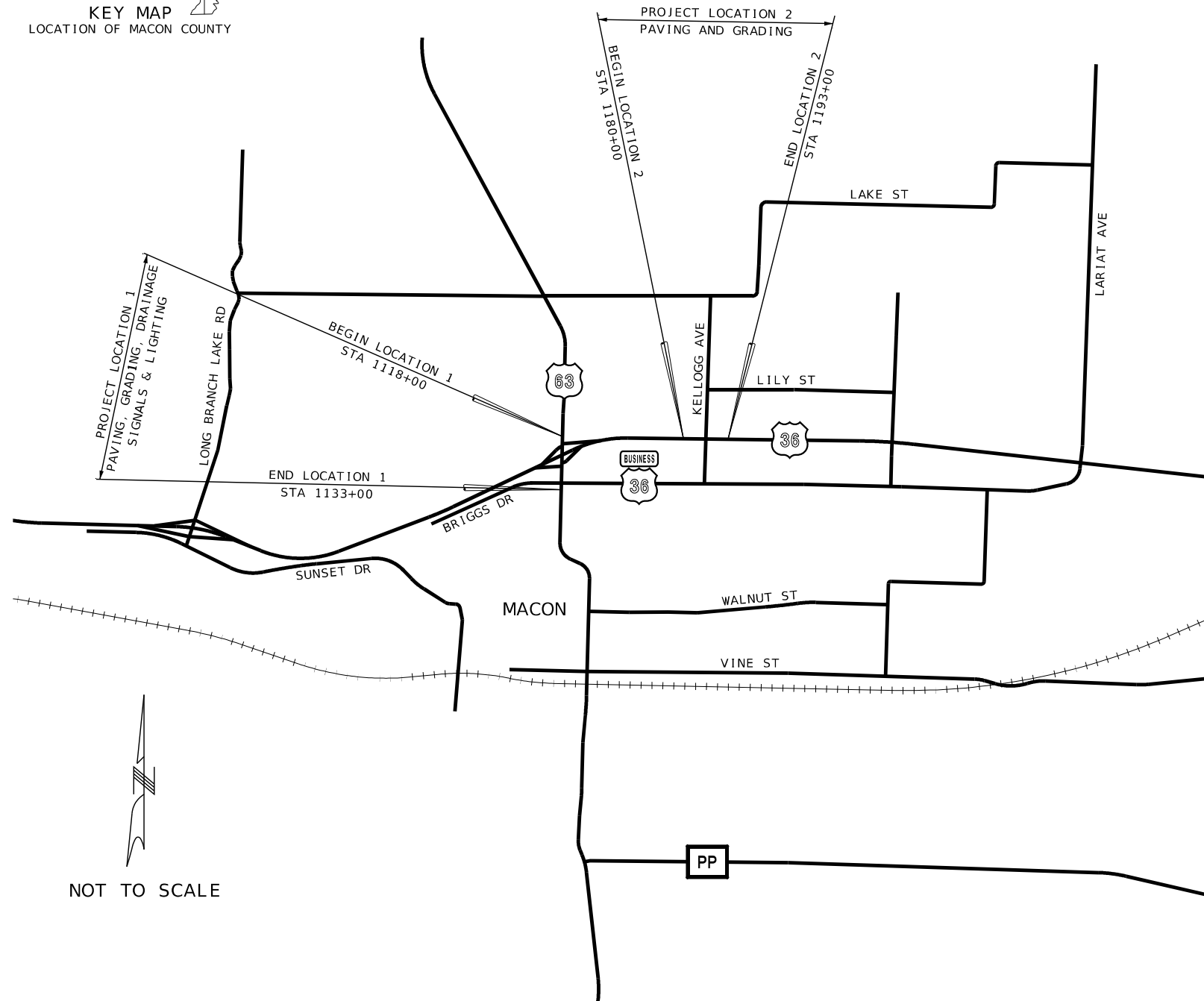
FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

CONVENTIONAL SYMBOLS (USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

KEY MAP
LOCATION OF MACON COUNTY



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.

DESCRIPTION	NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (5 SHEETS)-----	3
PLAN (PL)-----	4-9
PROFILE (PR)-----	10
REFERENCE POINTS (RP)-----	11
COORDINATE POINTS (CP)-----	12
SPECIAL SHEETS (SS)-----	13-16
TRAFFIC CONTROL SHEETS (TC)-----	17-25
EROSION CONTROL SHEETS (EC)-----	26-27
LIGHTING (LT)-----	28-29
SIGNALS (SG)-----	30-50
SIGNING (SN)-----	51-55
PAVEMENT MARKING (PM)-----	56-57
CULVERT SECTIONS (CS)-----	58
BRIDGE DRAWINGS (B)	
A20432-----	1-10
CROSS SECTIONS (XS)-----	1-20

BEGINNING OF PROJECT LOCATION 1	STA. 1118+00.00
END OF PROJECT	STA. 1133+00.00
APPARENT LENGTH	1500.00 FEET
EQUATIONS AND EXCEPTIONS:	
BEGINNING OF PROJECT LOCATION 2	STA. 1180+00.00
END OF PROJECT	STA. 1193+00.00
APPARENT LENGTH	1300.00 FEET
EQUATIONS AND EXCEPTIONS:	

TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	2800.00	FEET
STATE LENGTH	0.530	MILES
FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES	1.4	ACRES



Paul J. Kronlage
05/29/2025 12:50:58 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
5/28/2025

ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 1

COUNTY
MACON

JOB NO.
JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

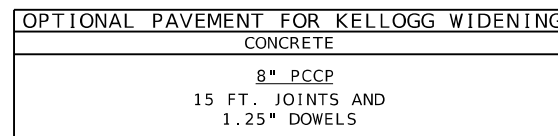
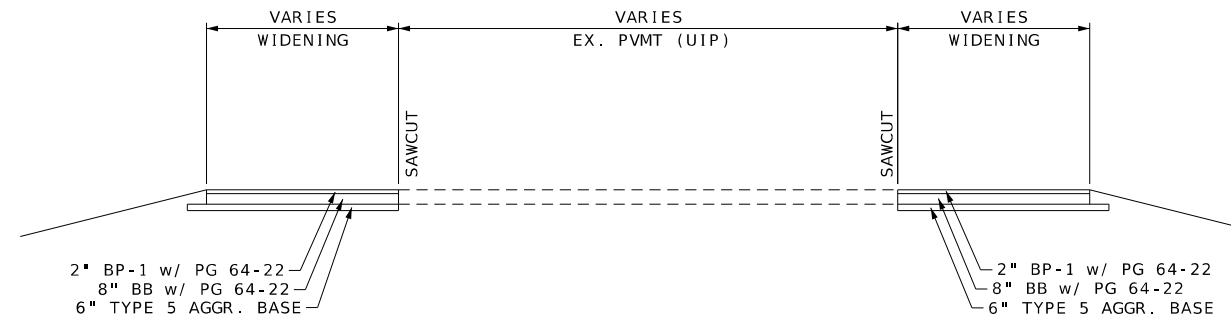
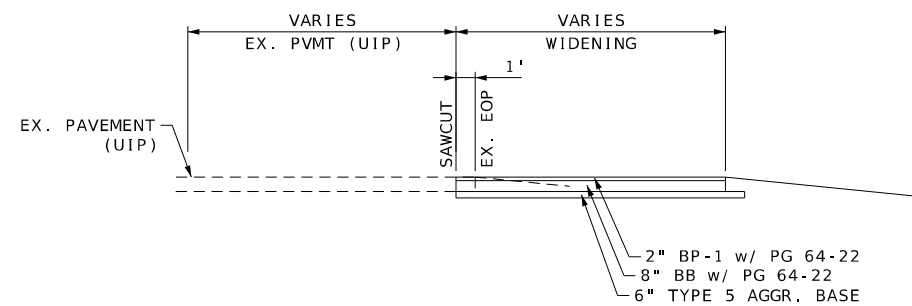
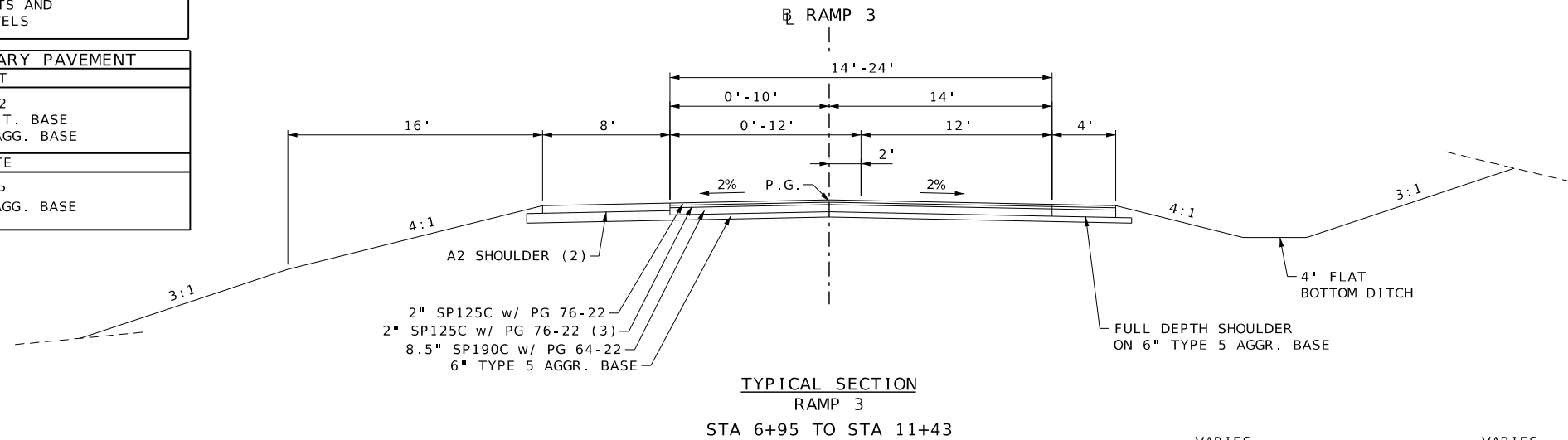
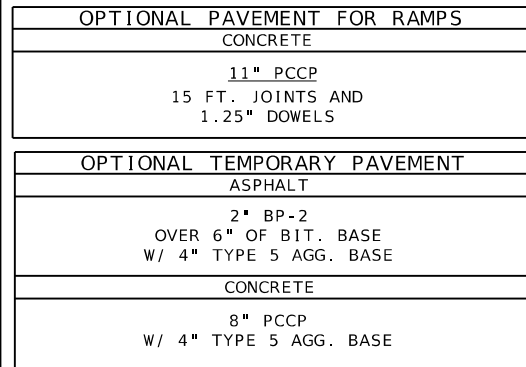
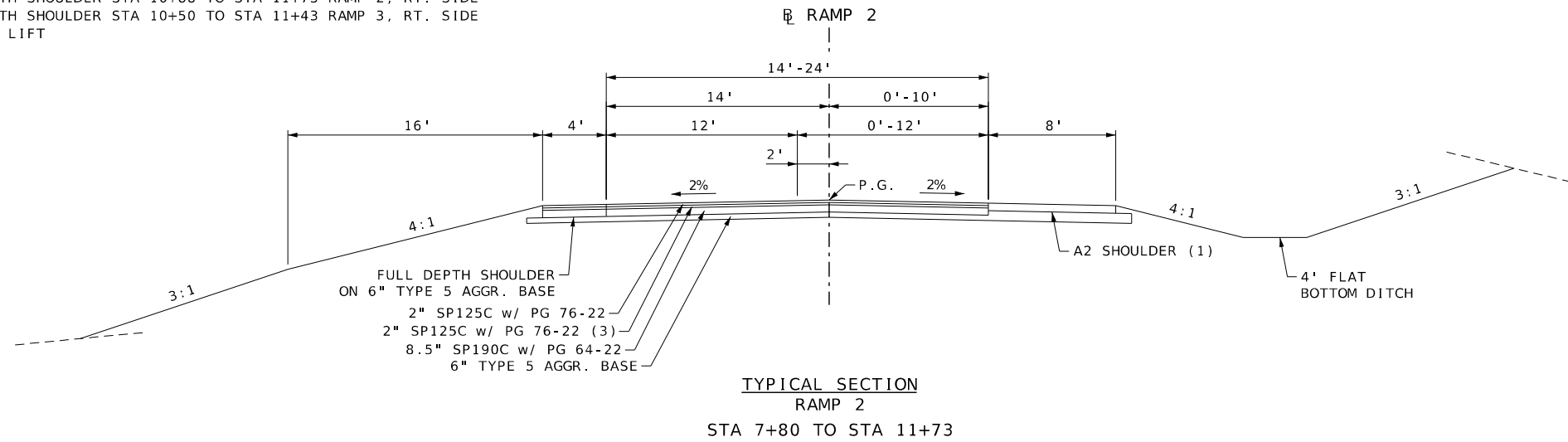
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EFK♦Moen
Civil Engineering Design
13523 Barrett Parkway Dr.
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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TYPICAL SECTIONS
SHEET 1 OF 1

PAVEMENT, SHOULDER, BASE, CURB AND MEDIAN STRIP											
SHEET NO	ROADWAY	STA	STA	LOC	OPTIONAL PAVEMENT	8-IN CONCRETE PAVEMENT	TYPE A2 SHOULDER	8 IN CONCRETE MEDIAN STRIP	TYPE 5 AGGREGATE FOR BASE (6 IN THICK)	6 IN OR UNDER TYPE S OR A CURB	REMARKS
					S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	L.F	
4 & 7	RAMP 3	6+30	11+49	LT&RT	1671.5		375.14	49.16	2046.6		
5 & 8	RAMP 2	7+75	11+78	LT&RT	1408.2		279.71	38.09	1687.9	130.0	
6	RTE 63	1130+52	1131+61	LT&RT		298.78		107.26	298.8		INTERSECTION OF BUS 36 WITH BRIGGS
9	RTE 36	1186+12	1187+68	LT	219.9				219.9		
9	RTE 36	1186+82	1187+89	RT		64.54			64.5		KELLOGG MEDIAN Crossover
9	RTE 36	1186+37	1187+91	RT	196.3				196.3		
SUBTOTAL					3495.9	363.3	654.9	194.5	4514.0	130.0	
PAY TOTAL					3495.9	363.3	654.9	194.5	4514	130	

EARTHWORK						
XS SHEET NO	ROADWAY	LOC.	CLASS A EXCAVATION	COMPACTING EMBANKMENT	COMPACTING IN CUT	REMARKS
			C.Y.	C.Y.	STA.	
1-9	RAMP 2	LT&RT	687.5	274.9	4.02	
10-20	RAMP 3	LT&RT	1111.7	905.1	5.19	OBTAIN 18 C.Y. FROM RAMP 2 FOR FILL NEEDS
SUBTOTALS			1799.2	1180.0	9.21	
PAY TOTALS			1799	1180	9.2	

NOTE: ASSUMING 20% SHRINKAGE

SEEDING	1.4 ACRES
TEMPORARY SEEDING	0.8 ACRES
MULCHING	2.2 ACRES
MOBILIZATION	1 LUMP SUM
CONTRACTOR FURNISHED SURVEYING AND STAKING	1 LUMP SUM
ADDITIONAL MOBILIZATION FOR SEEDING	4 EA.

LINEAR GRADING						
SHEET NO	ROADWAY	STA	STA	LOC	LINEAR GRADING CLASS 2	REMARKS
					STA.	
6	RTE 63	1130+52	1130+91	LT&RT	0.39	
6	RTE 63	1131+26	1131+61	LT&RT	0.35	
9	RTE 36	1186+12	1187+68	LT	1.15	
9	RTE 36	1186+82	1187+89	RT	0.54	KELLOGG MEDIAN Crossover
9	RTE 36	1186+37	1187+91	RT	0.94	
24	RAMP 2	6+78	10+33	BL	7.10	INSTALL AND REMOVE TEMP. PAVEMENT
25	RAMP 3	5+08	10+35	BL	10.54	INSTALL AND REMOVE TEMP. PAVEMENT
SUBTOTAL					21.01	
PAY TOTAL					21.0	

EROSION CONTROL							
PLAN SHEET	ROADWAY	LOC	CROSS STREET	SILT FENCE	ALTERNATE DITCH CHECK	SEDIMENT REMOVAL	REMARKS
				L.F.	LF.	C.Y	
26	RT. 63	LT & RT	KELLOGG	650	40	47	
27	RT. 63	EB OFF-RAMP	RT. 36	905	80	89	
27	RT. 63	WB-OFF RAMP	RT. 36	1150	220	232	
			TOTAL	2705	340	368	
			PAY TOTAL	2705	340	368	

TEMPORARY PAVEMENT MARKING TAPE							
SHEET	ROADWAY	STA	STA	LOC	4-INCH TEMPORARY PAVEMENT MARKING TAPE		REMARKS
					YELLOW	WHITE	
					L.F.	L.F.	
24	RTE. 36	5+00	11+40	RAMP 2	1020	1320	BL EB OFF-RP-3 STAGES
25	RTE. 36	2+50	11+00	RAMP 3	1140	2120	BL WB-OFF RAMP -3 STAGES
21	RTE. 63	1115+00	1130+00	CL	1670	2590	EB TRAFFIC CONTROL STAGE
22	RTE. 63	1115+00	1130+00	CL	1700	2880	WB TRAFFIC CONTROL STAGE
SUBTOTAL					5530	8910	16550
PAY TOTAL					5530	8910	*

*SEE PAVEMENT MARKING REMOVALS FOR TOTAL

SUMMARY OF QUANTITIES
SHEET 2 OF 5

STATE OF MISSOURI

PAUL JOSEPH KRONLAGE

NUMBER EN 023328

PROFESSIONAL ENGINEER

07/01/2025 1:56:59 PM

Paul J. Kronlage - Civil

MO PE - 023328

DATE PREPARED

7/1/2025

ROUTE

63

STATE

MO

DISTRICT

NE

SHEET NO.

3

COUNTY

MACON

JOB NO.

JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

EFK Moen

Civil Engineering Design

13523 Barrett Parkway Dr

Suite 250

St. Louis, MO 63021

Phone 314-394-3100

Fax 314-394-3199

Missouri Certificate of Authority: 001578

PERMANENT PAVEMENT MARKING														
SHEET NO.	ROADWAY	BEGIN STA 1	BEGIN STA 2	LOC										REMARKS
											PREFORMED THERMOPLASTIC 24-INCH WHITE	PREFORMED THERMOPLASTIC LEFT/RIGHT ARROW	PREFORMED THERMOPLASTIC WORD (ONLY)	
					CLASS 2 PAVEMENT MARKING PAINT, TYPE L BEADS									
					6-INCH YELLOW	4-INCH YELLOW	6-INCH WHITE			8-INCH WHITE				
					SOLID	INTERMITTENT	SOLID	INTERMITTENT	DOTTED	SOLID				
L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.						
56	RAMP 2	5+82	11+83	LT/RT	606		1041			81	12	5		
56	RAMP 3	5+00	11+56	LT/RT	724		1196			94	12	5		
56	RTE 63	1113+79	1129+69	LT/RT	2997	474	3099	420			152	11	2	
57	RTE 63	1129+69	1131+72	LT/RT	171		252	12	101	257	103			
57	RTE 36	1186+41	1187+86	LT/RT	1122		790				81			
SUBTOTAL					5620	474	6378	432	101	432	360	21	2	
PAY TOTAL					6094			6911		432	360	21	2	

STRUCTURES & LIDS																
SHEET NO.	ROADWAY	STA	LOC	TOP ELEV.	FLOWLINE ELEV.	ACTUAL DEPTH FT	PAVEMENT THICKNESS IN.	STR. NO.	72" PRECAST CONC. MANHOLE	2' x 2' PRECAST INLET TYPE A	72" MANHOLE FRAME & COVER TYPE 2	2' x 2' CURVED VANE GRATE & FRAME	CURB INLET	CLASS III EXC.	REMARKS	
									L.F.	L.F.	EA.	EA.	EA.	C.Y.		
4	RAMP 3	10+70	LT	868.00	861.21	6.76	0	1-2	7		1			3		
6	RTE 63	1131+36	LT	869.72	867.78	1.94	9	2-2		2		1	1	5		
6	RTE 63	1130+77	RT	869.72	866.09	3.62	9	3-2		4		1	1	7		
6	RTE 63	1131+57	LT	-	866.95	2.36	9	2-3				1	1			
6	RTE 63	1130+49	RT	-	865.09	3.91	9	3-3				1	1			
									SUBTOTAL	7	6	1	4	4	15	
									SUBTOTAL FROM STORM PIPES	-	-	-	-	-	13	
									PAY TOTAL	7	6	1	4	4	28	

STORM PIPES														
SHEET NO.	ROADWAY	FROM STRUCTURE	TO STRUCTURE	STA	STA	LOC	GROUP A PIPE			CONNECT TO EX DRAIN SYSTEM	TYPE A PIPE COLLAR	48 IN. CLASS III REINFORCED CONCRETE FLARED END SECTION	CLASS 3 EXCAVATION	REMARKS
							24"	36"	48"					
							L.F.	L.F.	L.F.					
4	RAMP 3	EX. PIPE	1-2	10+70	10+70	LT	32			1	1		4	
4	RAMP 3	EX. PIPE	1-2	11+03	10+70	LT		35		1	1		7	
4	RAMP 3	1-2	1-3	10+70	10+65	LT			2			1	2	
SUBTOTAL							32	35	2	2	2	1	13	
PAY TOTAL							32	35	2		2	1	*	

* SEE STRUCTURES & LIDS FOR TOTAL QUANTITY

TEMPORARY PAVEMENT							
SHEET NO	ROADWAY	STA	STA	LOC	OPTIONAL TEMPORARY PAVEMENT	TYPE 5 AGGREGATE FOR BASE (4 IN THICK)	REMARKS
					S.Y.	S.Y.	
24	RAMP 2	6+30	11+49	LT&RT	360.8	360.8	
25	RAMP 3	7+75	11+78	LT&RT	515.8	515.8	
SUBTOTAL					876.6	876.6	
PAY TOTAL					876.6	877	

PAVEMENT MARKING REMOVALS								
SHEET NO.	ROADWAY	BEGIN STA 1	BEGIN STA 2	LOC				REMARKS
					6-INCH SOLID WHITE REMOVALS	6-INCH DOUBLE SOLID YELLOW REMOVALS	24-INCH WHITE REMOVALS	
					L.F.	L.F.	L.F.	
56	RTE 63	1130+54	1131+73	LT/RT	41	44	412 *	
SUBTOTAL					41	44	412	
SUBTOTAL FROM TEMP. PAVEMENT MARKING TAPE					16550			
				PAY TOTAL	17047			

SUMMARY OF QUANTITIES
SHEET 3 OF 5



07/01/2025 1:57:19 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
7/1/2025

ROUTE 63 STATE MO
DISTRICT NE SHEET NO. 3

COUNTY
MACON

JOB NO.
JNE0137

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)

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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Missouri Certificate of Authority: 001578

WARNING SIGNS									GUIDE SIGNS									ITEM		TOTAL		EFFECTIVE: 07-01-2024	
SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN NUM.	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL SQ.FT.	RELOC	TOTAL RELOC	SIGN NUM.	DESCRIPTION	NUMBER	QTY	DESCRIPTION			
W01-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24.00			49	GORE EXIT	6122008	2	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)			
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00	2	24.00			73	EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)			
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)			
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)			
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00						END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)			
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)			
W01-4L	48X48	16.00	2	32.00			15L	REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)			
W01-4R	48X48	16.00	2	32.00			15R	REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122020	10	REPLACEMENT SAND BARREL			
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	4	24.00			54	WORK ZONE (PLAQUE)	6122030	2	IMPACT ATTENUATOR (RELOCATION)			
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6123001	1	TRUCK MOUNTED ATTENUATOR (TMA)			
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	30X24	5.00						DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM			
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	30X324	5.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)			
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)			
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)			
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161025	400*	CHANNELIZER (TRIM LINE)			
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161030	19*	TYPE III MOVEABLE BARRICADE			
W01-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161033	49*	DIRECTION INDICATOR BARRICADE			
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161040	4*	FLASHING ARROW PANEL			
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER			
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT			
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	2	24.00			4,25	SPEED LIMIT XX	6161070		TUBULAR MARKER			
W03-4	48X48	16.00						BE PREPARED TO STOP	R3-1	36X48	12.00	4	48.00			61	NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM			
W03-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	36X48	12.00	4	48.00			60	NO LEFT TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED			
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	12.00						NO LEFT TURN (SYMBOL)			COMMISSION FURNISHED/RETAINED			
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161098A	6	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED			
W04-1aL	48X48	16.00	1	16.00			6A	MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED			
W04-1aR	48X48	16.00	1	16.00			6B	MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6161099		INTERFACE- CONTRACTOR FURNISHED/RETAINED			
W05-1	48X48	16.00	6	96.00			43	ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM			
W05-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00	4	48.00			46A	PASS WITH CARE	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS			
W05-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6173600D	350	TEMPORARY TRAFFIC BARRIER			
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)			CONTRACTOR FURNISHED/RETAINED			
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6173602B		TEMPORARY TRAFFIC BARRIER			
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY			CONTRACTOR FURNISHED/COMMISSION RETAINED			
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION			
W08-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6175010A	350	RELOCATING TEMPORARY TRAFFIC BARRIER			
W08-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)	6176000B		TEMPORARY TRAFFIC BARRIER			
W08-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)			COMMISSION FURNISHED/RETAINED			
W08-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED	6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION			
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			COMMISSION FURNISHED/RETAINED			
W08-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						(ARROW RIGHT) CROSS HERE	6208064A		TEMPORARY RAISED PAVEMENT MARKER			
W08-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS			
W08-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00	6	60.00			29	(ARROW RIGHT) CROSS HERE	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING			
W08-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						STOP HERE ON RED (45° ARROW)	6199902		ADA COMPLIANT TYPE III MOVABLE BARRICADE			
W08-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50	2	25.00			63	ROAD CLOSED	6191000	2160	PAVEMENT EDGE TREATMENT			
W08-11	48X48	16.00						UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED XX MILES AHEAD						
W08-12	48X48	16.00						NO CENTER LINE	CONST-3X	56X12	4.67						LOCAL TRAFFIC ONLY						
W08-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS									TEMPORARY TRAFFIC CONTROL	616-99.01	1 LUMP SUM			
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE						
W08-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00						POINT OF PRESENCE						
W08-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE						
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	MO5-1L	21x15	2.19						ADVANCE TURN ARROW						
W10-1	42RND.	9.62						RAILROAD CROSSING	W016-7P-L	30X18	3.75						DOWNWARD DIAGONAL ARROW (LEFT)	* INDICATES ITEM IS INCLUDED IN LUMP SUM TEMPORARY TRAFFIC CONTROL.		** NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF TEMPORARY SIGNING AND/OR TEMPORARY TRAFFIC CONTROL DEVICES.			
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)	W016-7P-R	30X18	3.75						DOWNWARD DIAGONAL ARROW (RIGHT)						
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)	R9-10	24X18	3						SIDEWALK CLOSED, (DUAL ARROW) USE OTHER SIDE						
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)	W011-2	48X48	16						PEDESTRIAN (SYMBOL)						
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)	MO4-9bL	30X24	5						PEDESTRIAN (SYMBOL) DETOUR (ARROW LEFT)						
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD	MO4-9bL	30X24	5						PEDESTRIAN (SYMBOL) DETOUR (ARROW LEFT)	NOTES: ALL TRAFFIC CONTROL ITEMS INCLUDED IN PAY ITEM 616-99.01 TEMPORARY TRAFFIC CONTROL LUMP SUM, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.	</				



Paul J. Kronlage
07/01/2025 2:10:49 PM
Paul J. Kronlage - Civil
MO PE - 023328

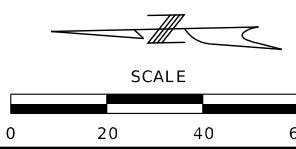
ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 6

PROJECT NO.



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

EFK♦Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



PLAN
SHEET 3 OF 6

RAMP 3
PI 9+21.87
PC 8+17.94
PT 10+25.61
Δ 5°56'57.7" (LT)
D 2°51'53.2"
L 207.67' (ARC)
T 103.93'
R 2,000.00'

RAMP 3
PI 6+59.08
PC 5+00.00
PT 8+17.94
Δ 5°12'17.2" (LT)
D 1°38'13.3"
L 317.94' (ARC)
T 159.08'
R 3,500.00'

T57N, R14W
SEC. 9

LEGEND:



PAVEMENT REMOVAL



PROPOSED PAVEMENT



PROPOSED
A2 SHOULDER

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05/29/2025 1:03:02 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
5/28/2025

ROUTE 63 STATE MO
DISTRICT NE SHEET NO. 7

COUNTY
MACON

JOB NO.
JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

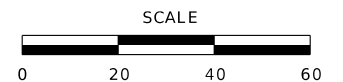
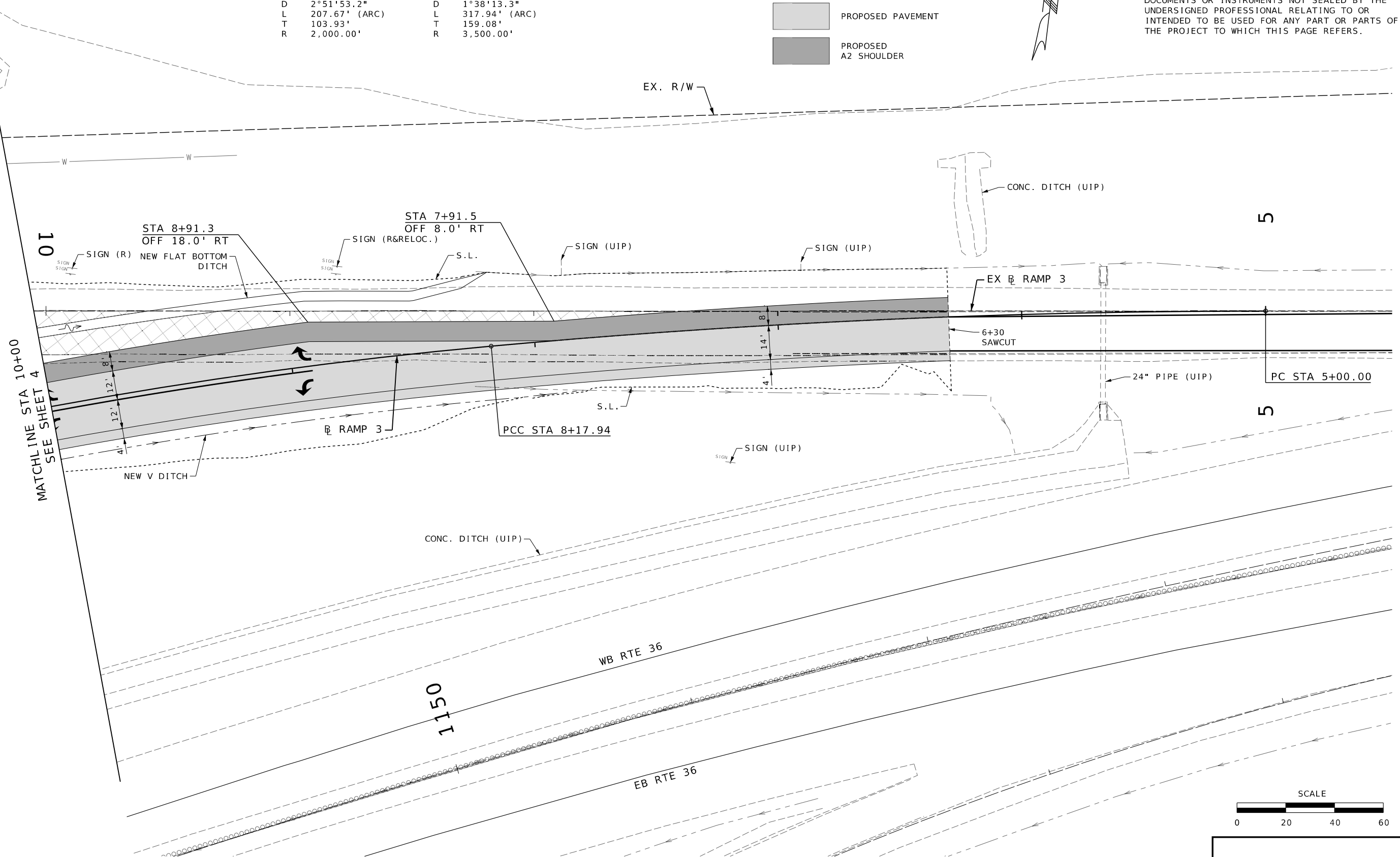
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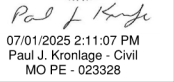
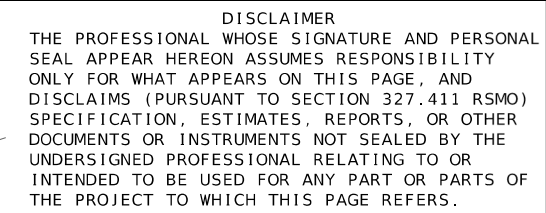
EFK Moen

Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



PLAN
SHEET 4 OF 6



DATE PREPARED
7/1/2025

ROUTE	STATE
63	MO

DISTRICT	SHEET NO.
NE	8

COUNTY
MACON

MACON
JOB NO.
INE0137

JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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888-7105
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FERSON
DOT

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JEFFREY
SK - MCM

1-81


The logo for Sigma Xi, featuring a stylized Greek letter sigma (Σ) and a circular emblem with three curved lines.

0099

94-31
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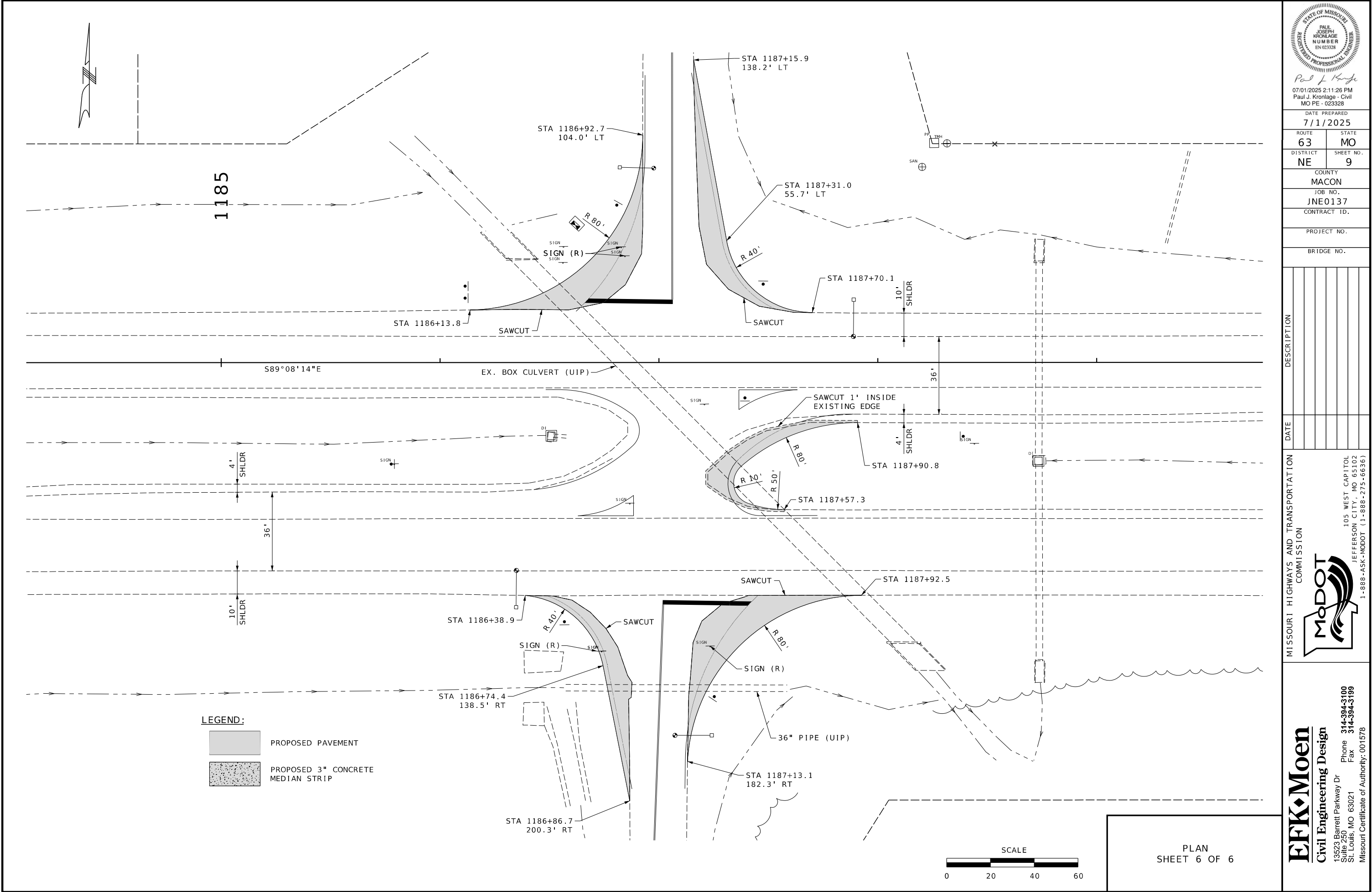
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Suite 2
St. Louis
Missouri

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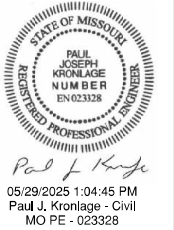
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4 PM 7/17/2025



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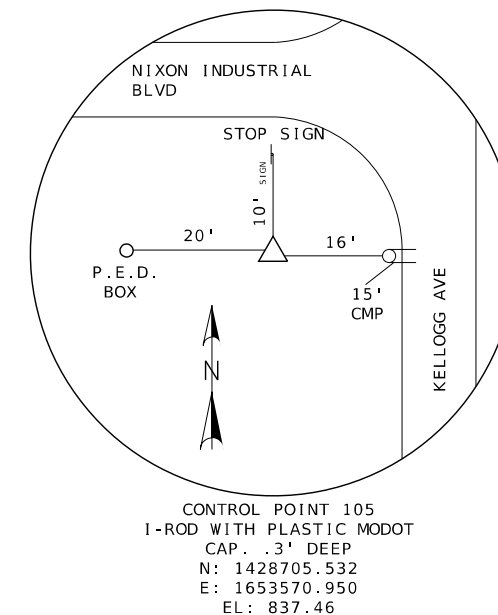
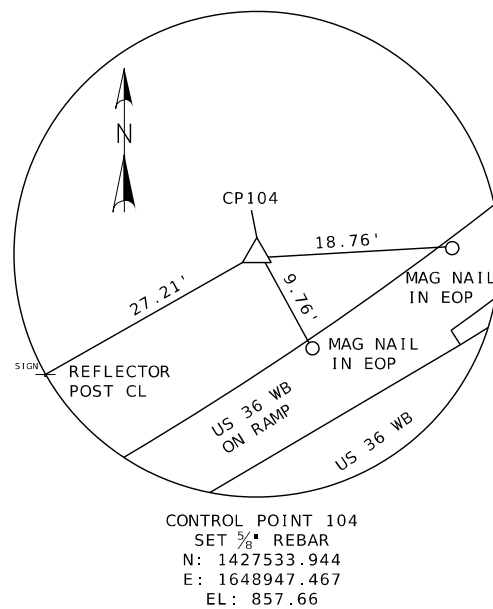
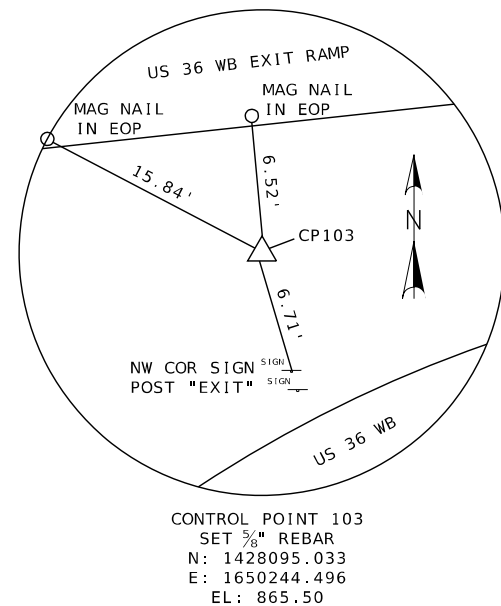
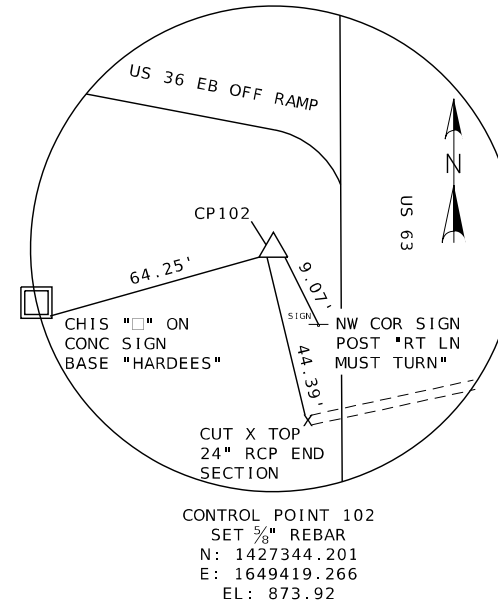
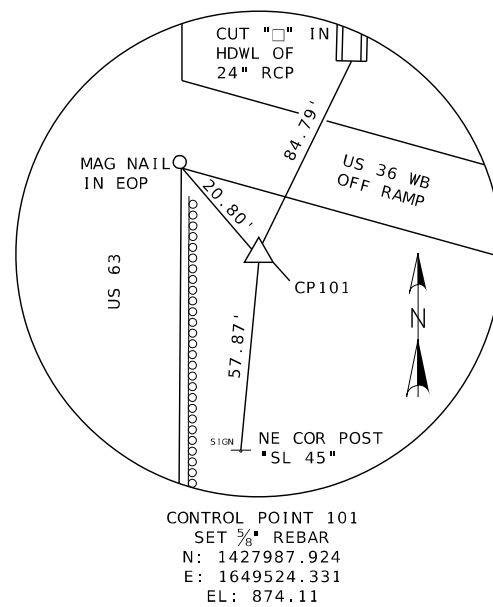
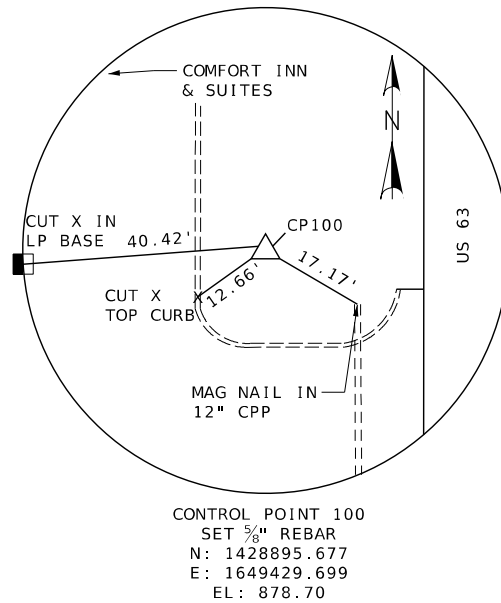


DATE PREPARED	
5/28/2025	
ROUTE	STATE
63	MO
DISTRICT	SHEET NO.
NE	11
COUNTY	
MACON	
JOB NO.	
JNE0137	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

EFC Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



REFERENCE POINTS
SHEET 1 OF 1

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD 83
VERTICAL DATUM	NAVD 88
GEOID MODEL	18 US
ELEVATIONS DETERMINED BY	MoDOT GNSS
PROJECT PROJECTION FACTOR	1.000061822

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE 1983
CONTROL STATION	MONC
DESIGNATION	MoDOT NEW CAMBRIA CORS ARP
CORS_ID	MONC
PID	DM4684
LATITUDE	39°45'31.12308"
LONGITUDE	92°44'33.9716"
NORTHING (M)	435680.239
EASTING (M)	479197.514
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.999938178

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 #100
N 1,428,895.68 X 0.999938178 = N 1,428,807.34
E 1,649,429.70 X 0.999938178 = E 1,649,327.73

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

SURVEY NOTES:
1.HORIZONTAL CONTROL STATEMENT: STATE PLANE COORDINATES ON THIS PROJECT WERE ESTABLISHED UTILIZING THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUSLY OPERATING REFERENCE STATIONS DURING JANUARY 2022, AND ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, CENTRAL ZONE. GF=0.9999381779
2.VERTICAL DATUM IS NAVD 88. ELEVATION FOR CONTROL POINT 102 WAS BASED ON THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUS OPERATING REFERENCE STATIONS.
PROJECT BENCHMARKS: BM O-CHISELED SQUARE ON ORSCHELN FARM & HOME SIGN, ON THE WEST SIDE OF CONC BASE. EL=872.53
BM H-CHISELED SQUARE ON HARDEE'S SIGN. SE CORNER OF CONC BASE. EL=871.76
BM M-CHISELED SQUARE ON MFA SIGN. NE CORNER OF CONC BASE. EL=874.51
BM C-CHISELED SQUARE ON CL OF 24" RCP HEADWALL. NORTH OFF RAMP OF WB 36 & EB 63. SW OF JOHN DEERE DEALERSHIP. EL=870.27
3.THE UNDERGROUND UTILITIES SHOWN HEREON ARE TAKEN FROM UTILITY LOCATIONS AS MARKED IN THE FIELD. TICKET NUMBERS: 230551968, 230552019, 230552068, 230552085, 230552102, 230552113, 230552129, 230552150, 230552193 & 230552218.
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOW, AND SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
PROJECT CONTROL POINTS								
	1111+40.20	☐ RTE 63 RT	69.13	1,428,895.68	1,649,429.70	878.70	SET 5/8" REBAR	100
	1120+45.70	☐ RTE 63 RT	45.49	1,427,987.92	1,649,524.33	874.11	SET 5/8" REBAR	101
	1126+91.62	☐ RTE 63 RT	45.37	1,427,344.20	1,649,419.27	873.92	SET 5/8" REBAR	102
	1154+58.17	☐ RTE 36 LT	59.2	1,428,095.03	1,650,244.50	865.50	SET 5/8" REBAR	103
	1140+52.20	☐ RTE 36 LT	65.75	1,427,533.94	1,648,947.47	857.66	SET 5/8" REBAR	104
	1186+78.44	☐ RTE 36 LT	414.38	1,428,705.53	1,653,570.95	837.46	I-ROD W/ PLASTIC MODOT CAP. .3' DEEP	105
ALIGNMENTS								
	1107+00.00	☐ RTE 63	0	1,429,422.59	1,649,610.49	-	BEGIN PROJECT ALIGNMENT	
	1133+61.60	☐ RTE 63	0	1,426,761.63	1,649,551.84	-	END PROJECT ALIGNMENT	
	00+00.00	☐ RAMP 1	0	1,428,114.71	1,649,581.66	-	BEGIN ALIGNMENT	
	5+40.83	☐ RAMP 1	0	1,427,732.81	1,649,198.71	-	END ALIGNMENT	
	3+50.00	☐ RAMP 2	0	1,427,345.77	1,648,735.32	-	BEGIN ALIGNMENT, PC	
	6+73.46	☐ RAMP 2	0	1,427,438.98	1,649,044.34	-	PT	
	8+80.29	☐ RAMP 2	0	1,427,476.02	1,649,247.83	-	PC	
	10+98.87	☐ RAMP 2	0	1,427,524.89	1,649,460.80	-	PT	
	12+11.51	☐ RAMP 2	0	1,427,555.06	1,649,569.33	-	END ALIGNMENT	
	5+00.00	☐ RAMP 3	0	1,428,194.02	1,650,241.09	-	BEGIN ALIGNMENT, PC	
	8+17.94	☐ RAMP 3	0	1,428,141.78	1,649,927.58	-	PCC	
	10+25.61	☐ RAMP 3	0	1,428,087.92	1,649,727.11	-	PT	
	11+80.28	☐ RAMP 3	0	1,428,040.09	1,649,580.02	-	END ALIGNMENT	
	0+00.00	☐ RAMP 4	0	1,427,484.86	1,649,567.78	-	BEGIN ALIGNMENT	
	2+60.50	☐ RAMP 4	0	1,427,675.88	1,649,744.89	-	PC	
	10+60.71	☐ RAMP 4	0	1,428,086.82	1,650,419.70	-	PCC	
	14+60.71	☐ RAMP 4	0	1,428,170.59	1,650,810.61	-	END ALIGNMENT, PT	
	0+00.00	☐ EX. RAMP 2	0	1,427,207.58	1,648,413.76	-	BEGIN ALIGNMENT	
	3+50.00	☐ EX. RAMP 2	0	1,427,345.77	1,648,735.32	-	PC	
	8+29.20	☐ EX. RAMP 2	0	1,427,438.98	1,649,044.34	-	PT	
	11+99.14	☐ EX. RAMP 2	0	1,427,484.86	1,649,567.78	-	END ALIGNMENT	
	0+00.00	☐ EX. RAMP 3	0	1,428,253.72	1,650,737.51	-	BEGIN ALIGNMENT	
	11+64.18	☐ EX. RAMP 3	0	1,428,114.71	1,649,581.66	-	END ALIGNMENT	
	1168+15.52	☐ RTE 36	0	1,428,319.25	1,651,702.00	-	BEGIN ALIGNMENT	
	1227+23.40	☐ RTE 36	0	1,428,230.29	1,657,609.21	-	END ALIGNMENT	

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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER
EN 03328
PROFESSIONAL ENGINEER

05/29/2025 1:05:04 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
5/28/2025

ROUTE
63

STATE
MO

DISTRICT
NE

SHEET NO.
12

COUNTY
MACON

JOB NO.
JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK Moen

Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Missouri Certificate of Authority: 001578

Phone 314-394-3100
Fax 314-394-3199

COORDINATE POINTS
SHEET 1 OF 1

O:\2022R3\MoDOT_ORD_v10.12.02.04\23046 MoDOT NE0137 Route 63-36 Interchange\DGN\Roadway\Final\Plotsheets\012_CP_NE0137_i20.dgn 1:43:17 PM 5/28/2025

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05/29/2025 1:06:13 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED 5/28/2025	
ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 13
COUNTY MACON	
JOB NO. JNE0137	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

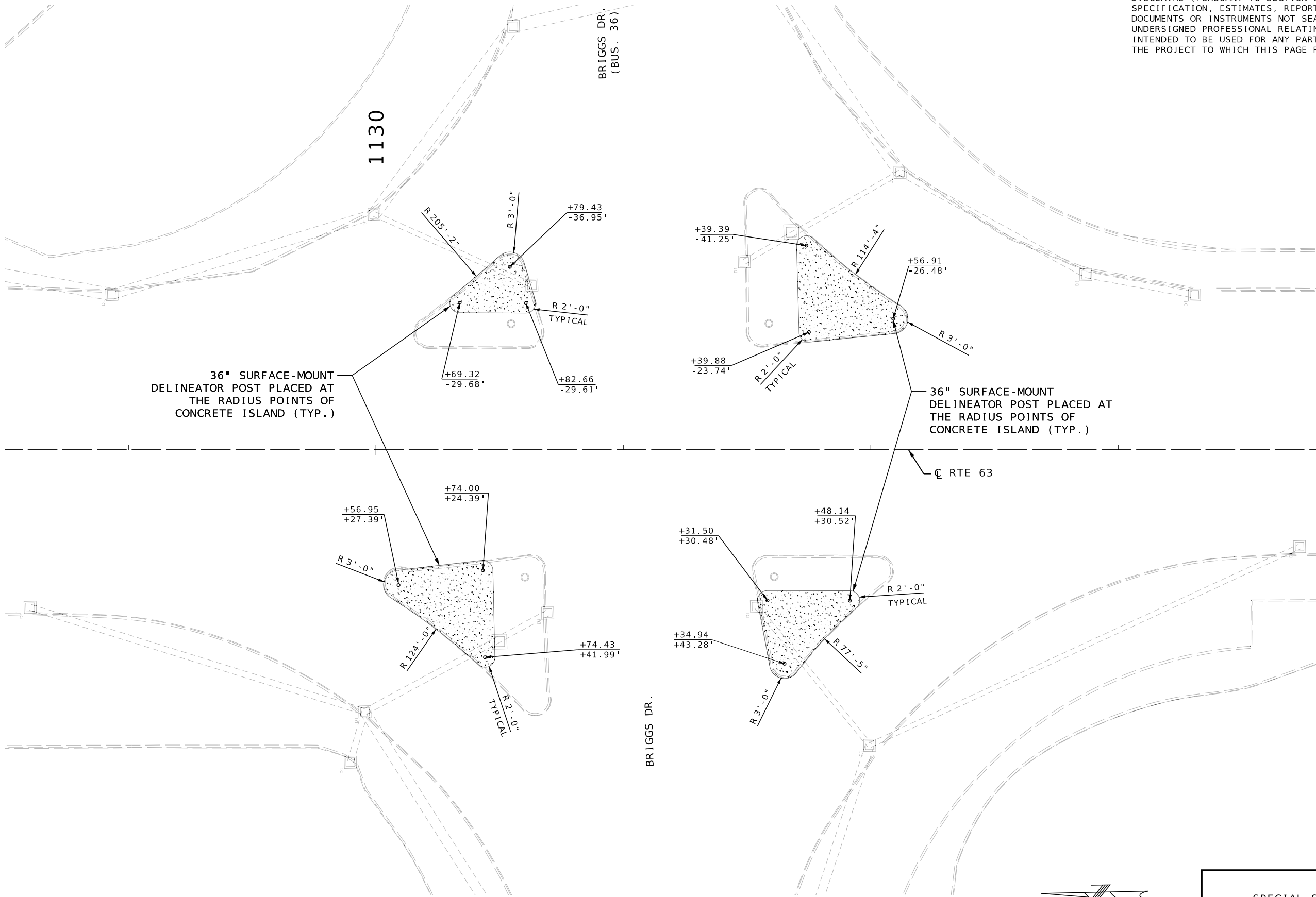
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

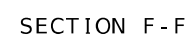
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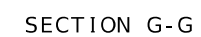
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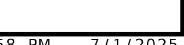
SPECIAL SHEET
ISLAND DETAILS
SHEET 1 OF 4

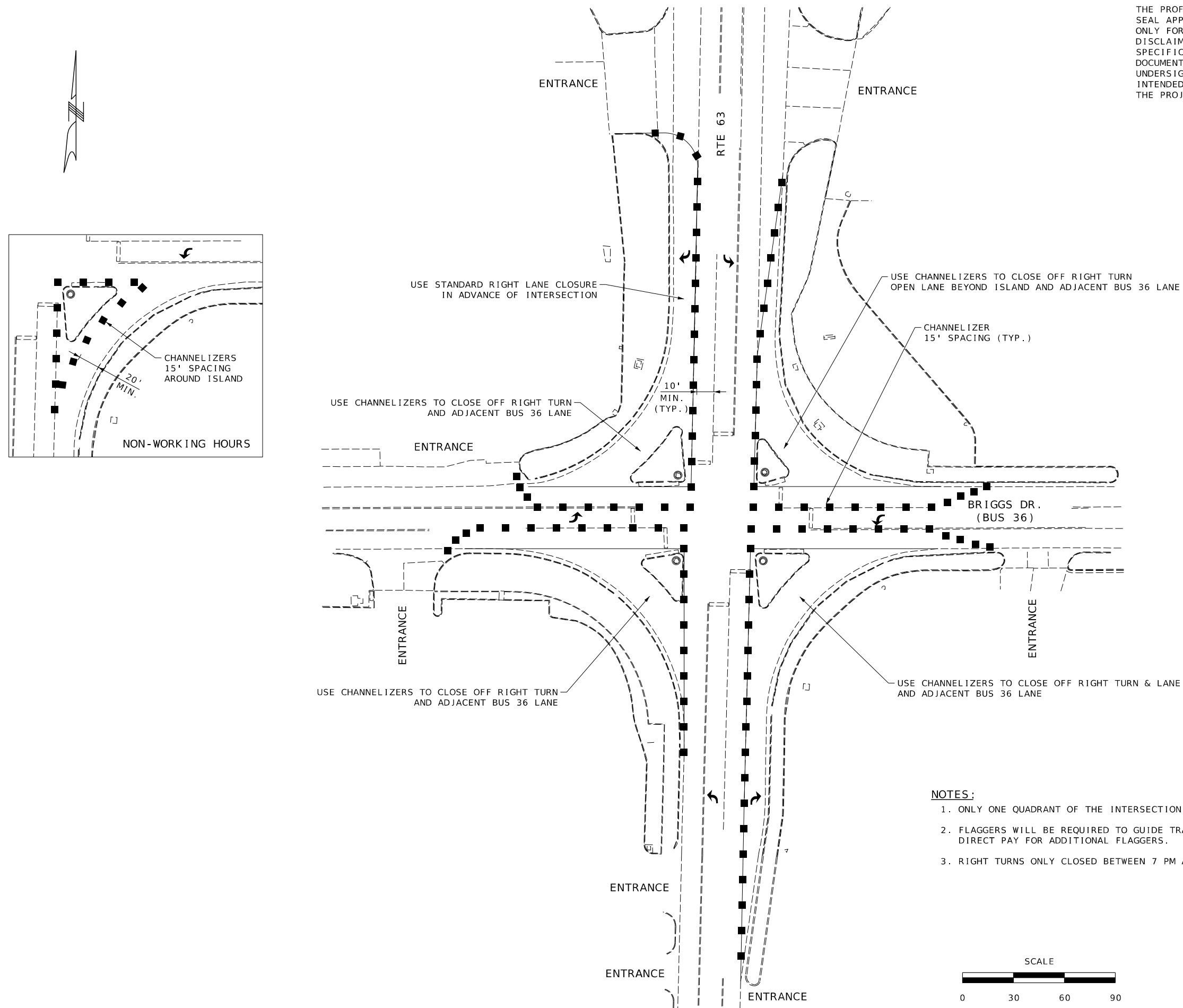


CURB INLET



SPECIAL SHEET
CURB INLET DETAILS
SHEET 2 OF 4





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DATE PREPARED
7/2/2025

COUNTY
MACON

CONTRACT ID.

BRIDGE NO.

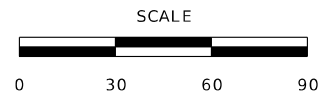
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

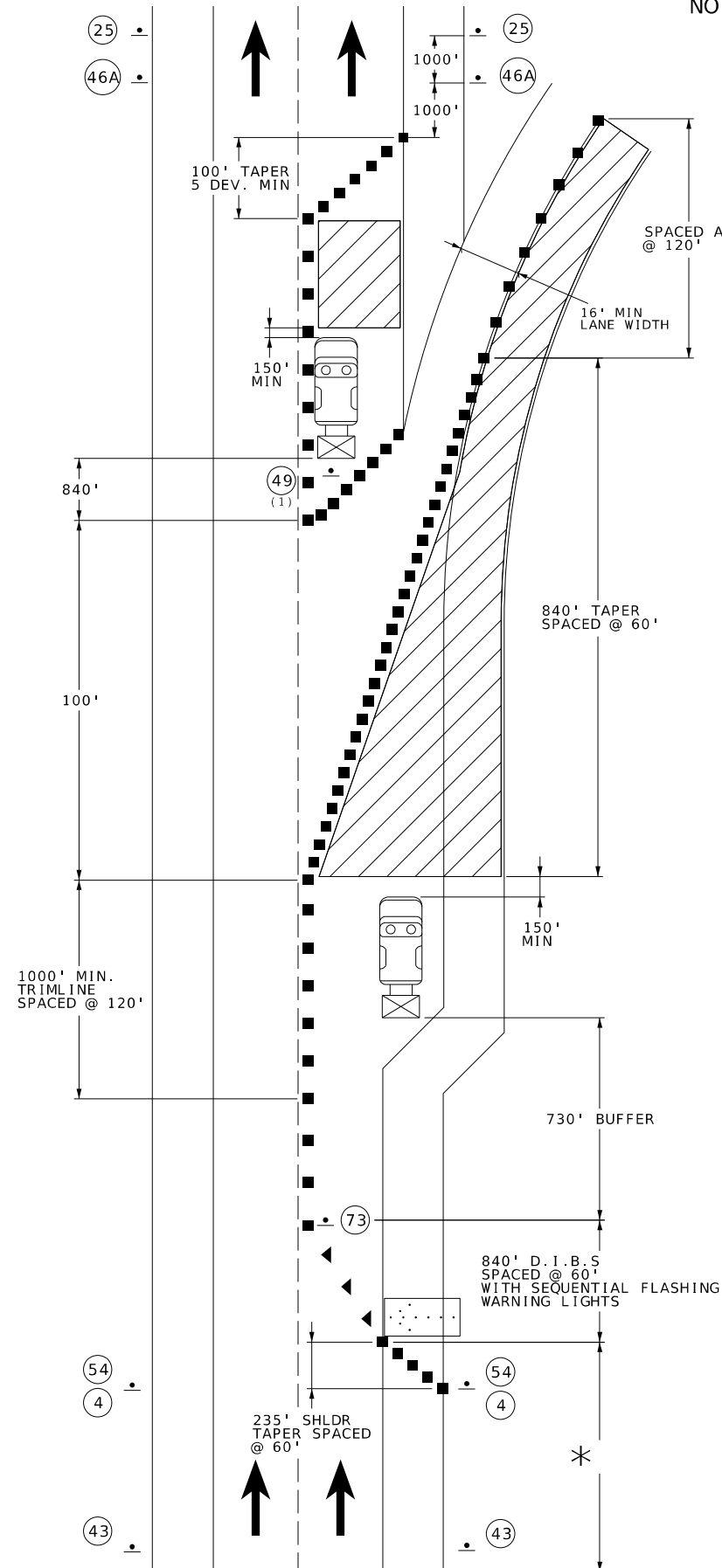
EFK♦Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199

- NOTES:**
1. ONLY ONE QUADRANT OF THE INTERSECTION SHALL BE CLOSED AT A TIME.
 2. FLAGGERS WILL BE REQUIRED TO GUIDE TRAFFIC THROUGH WORK ZONES. NO DIRECT PAY FOR ADDITIONAL FLAGGERS.
 3. RIGHT TURNS ONLY CLOSED BETWEEN 7 PM AND 7 AM, MONDAY THRU SUNDAY

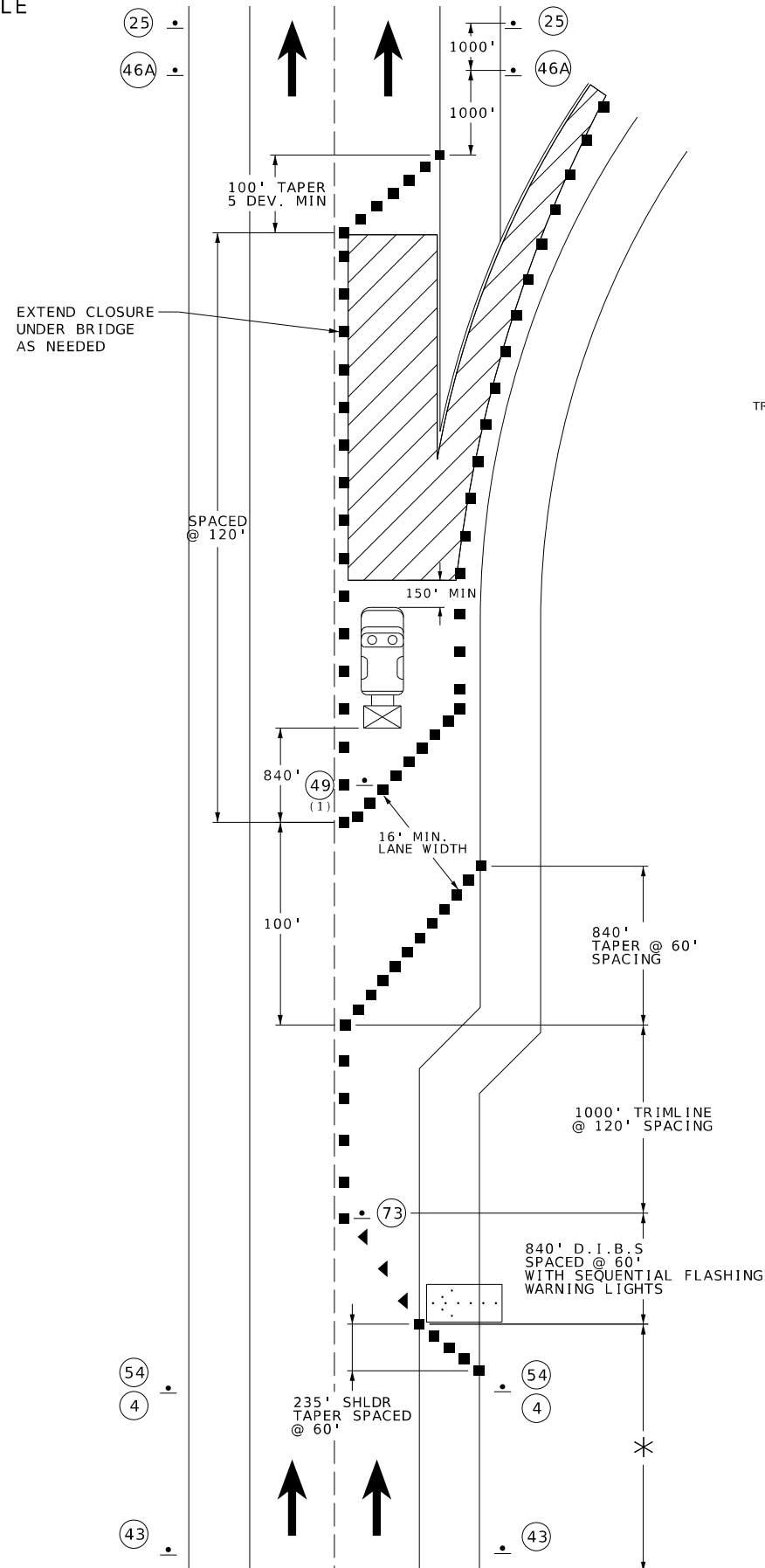


TRAFFIC CONTROL
SHEET 3 OF 9

WORK IN THE VICINITY OF AN EXIT RAMP
NOT TO SCALE

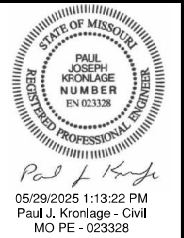


*FOR DETAILS ON THE ADVANCE SIGNING AREA,
SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS



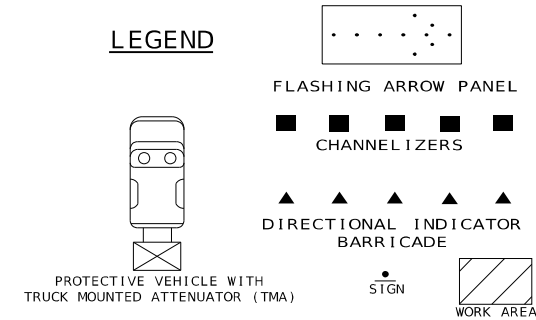
*FOR DETAILS ON THE ADVANCE SIGNING AREA,
SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS

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DATE PREPARED
5/29/2025
ROUTE 63 STATE MO
DISTRICT NE SHEET NO. 20
COUNTY MACON
JOB NO. JNE0137
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

LEGEND



- NOTES:
- (1) PLACE TEMPORARY SIGN AT A MOUNTING HEIGHT OF 7' WITHIN THE TEMPORARY GORE
 - (3) 5 CHANNELIZER DEVICES MINIMUM



E05-2
73



E05-1
49
(1)



W05-1
43



R2-1
25



GO20-5aP
54



R2-1
4

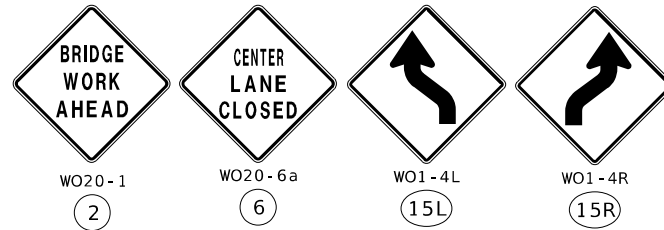
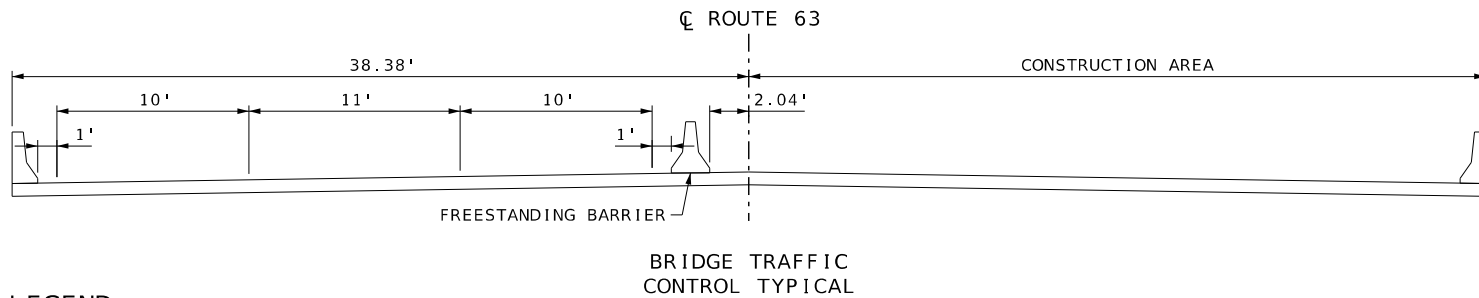


R4-2
46A

TRAFFIC CONTROL
SHEET 4 OF 9

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



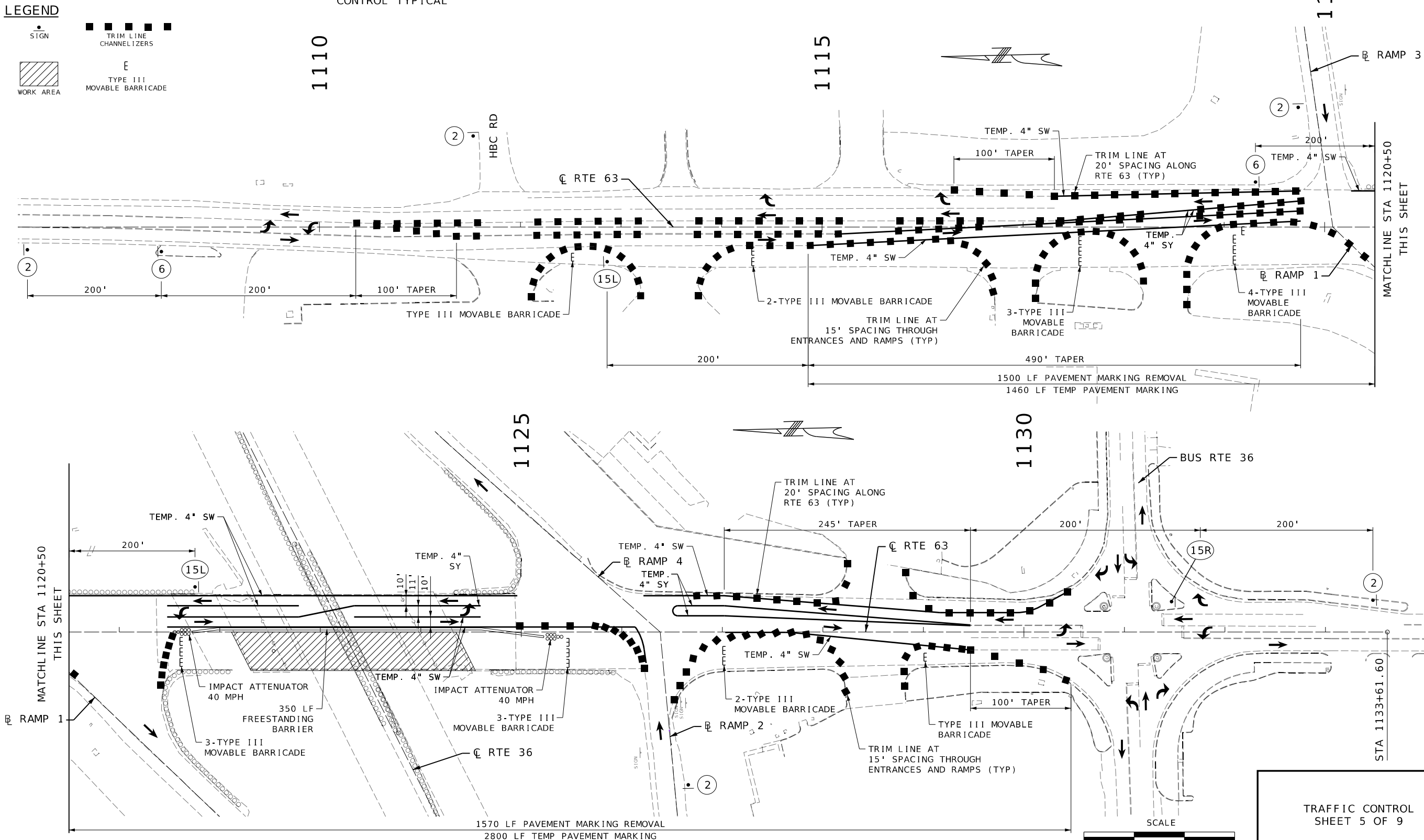
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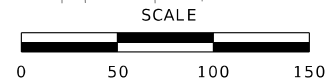
Paul J. Kronlage
05/29/2025 1:13:58 PM
Paul J. Kronlage - Civil
MO PE - 023328

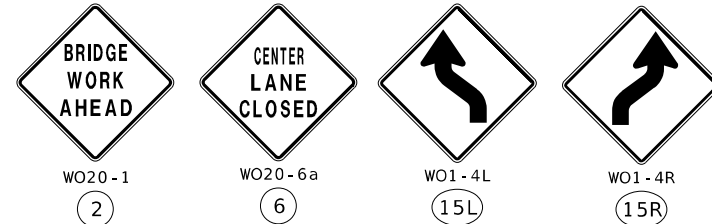
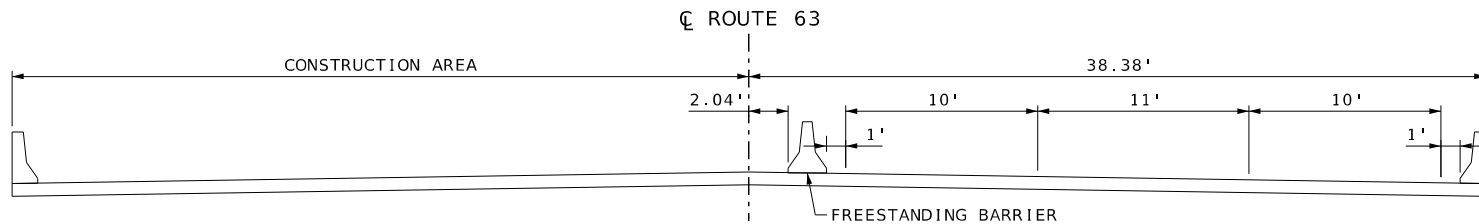
DATE PREPARED
5/29/2025
ROUTE 63 STATE MO
DISTRICT NE SHEET NO. 21
COUNTY MACON
JOB NO. JNE0137
CONTRACT ID.

PROJECT NO.
BRIDGE NO.



TRAFFIC CONTROL
SHEET 5 OF 9



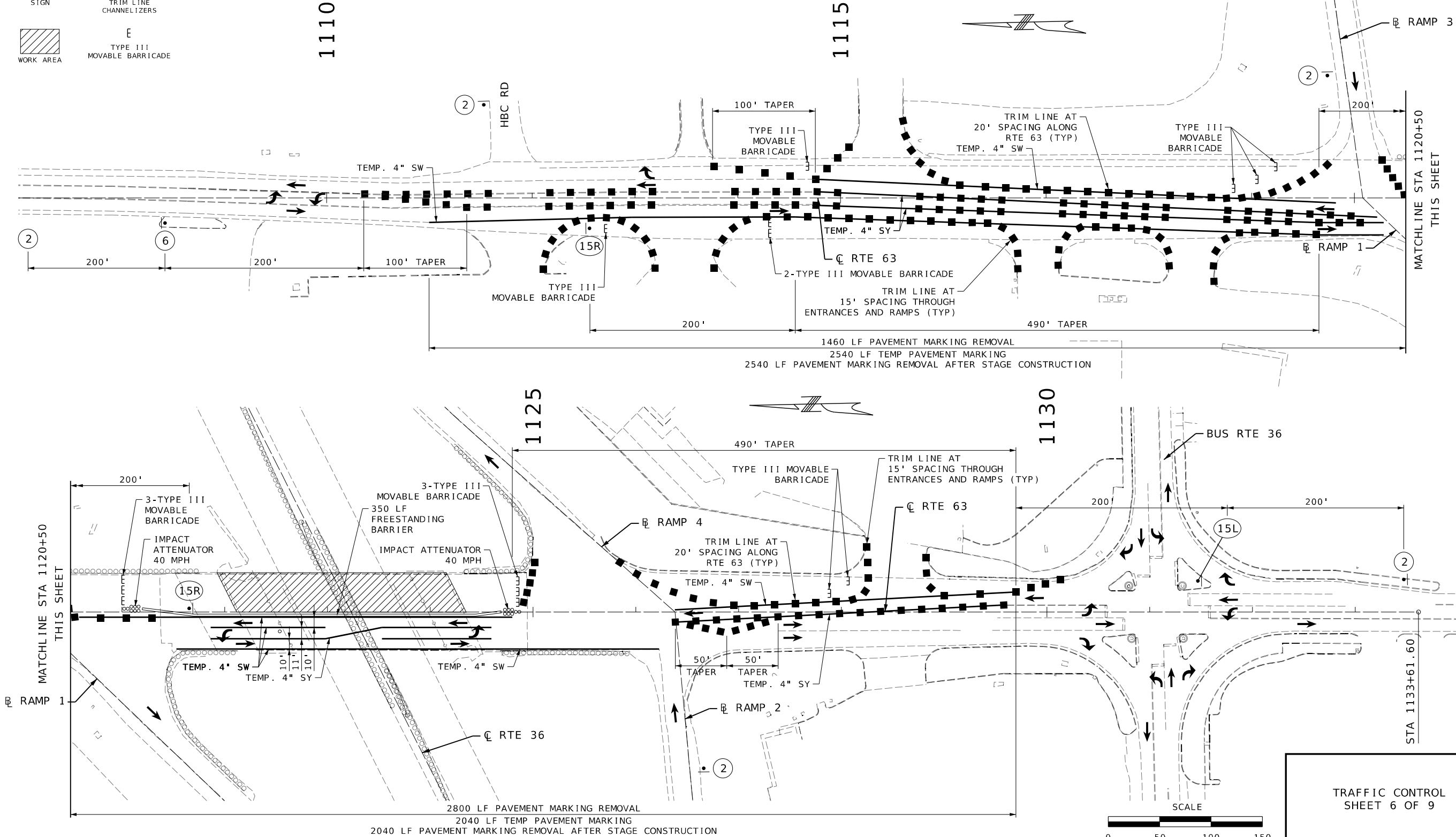
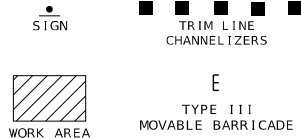


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Paul J. Kronlage
05/29/2025 1:14:15 PM
Paul J. Kronlage - Civil
MO PE - 023328

LEGEND



DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

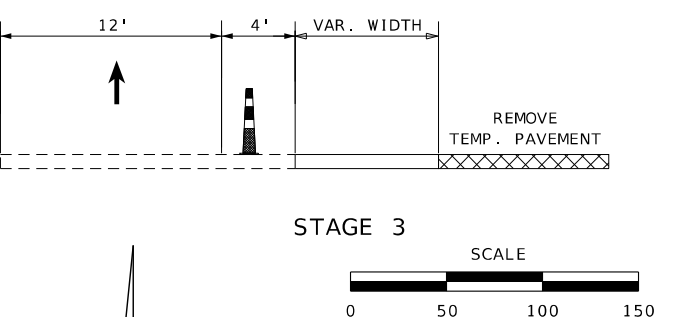
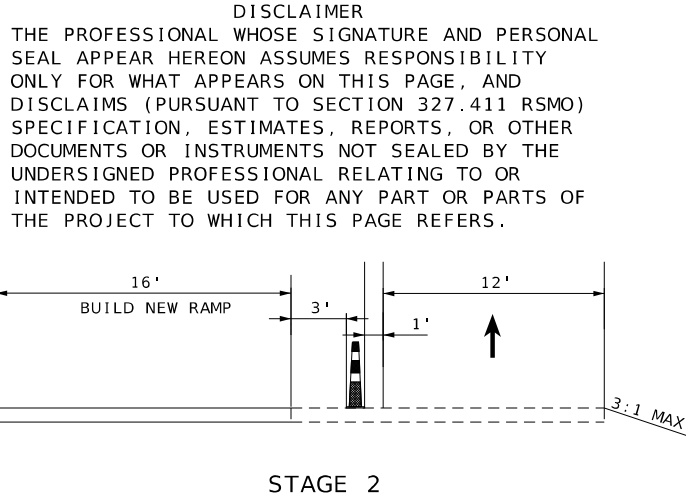
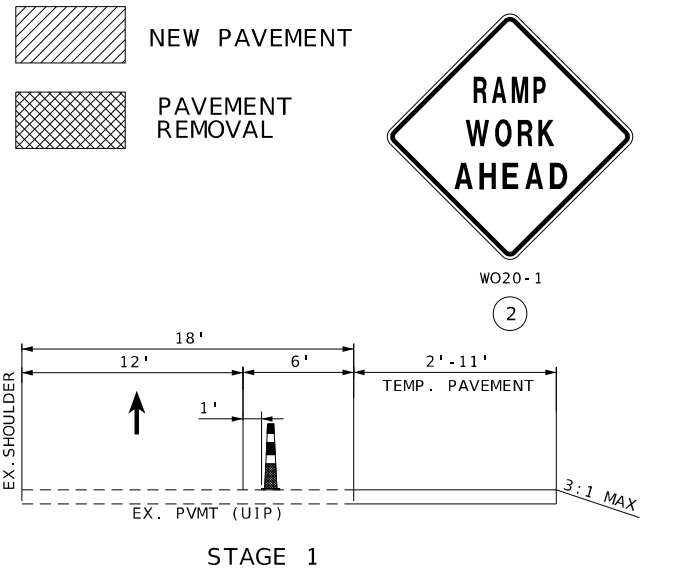
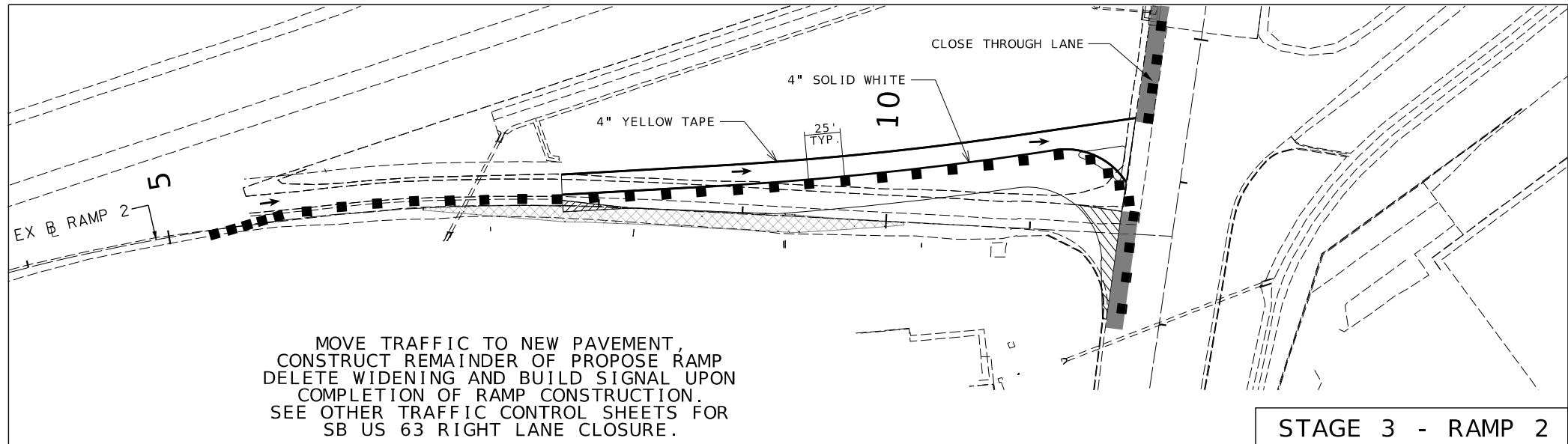
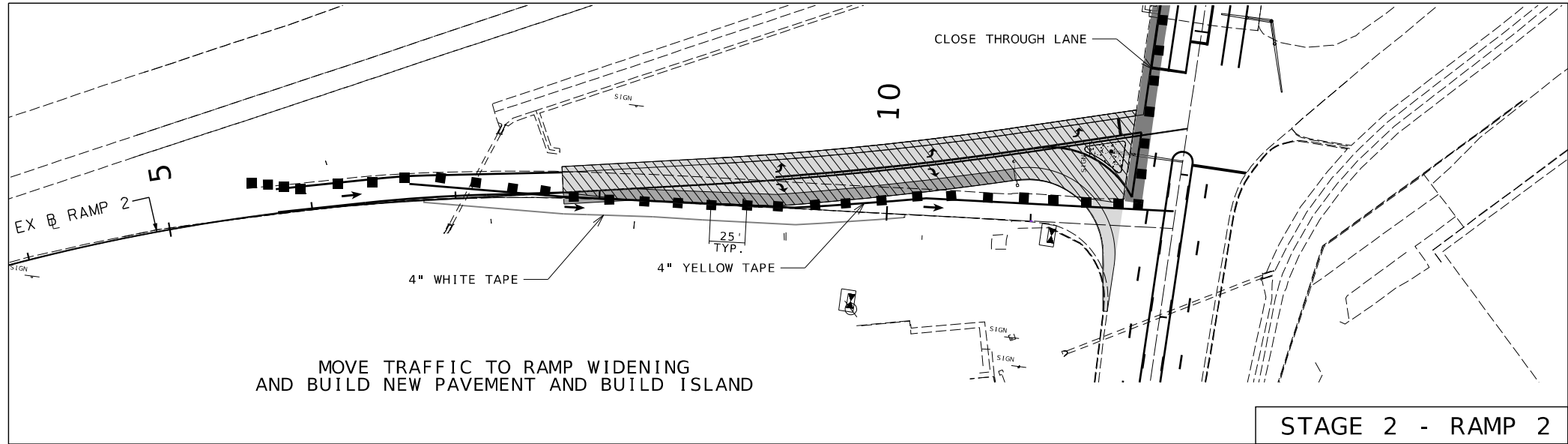
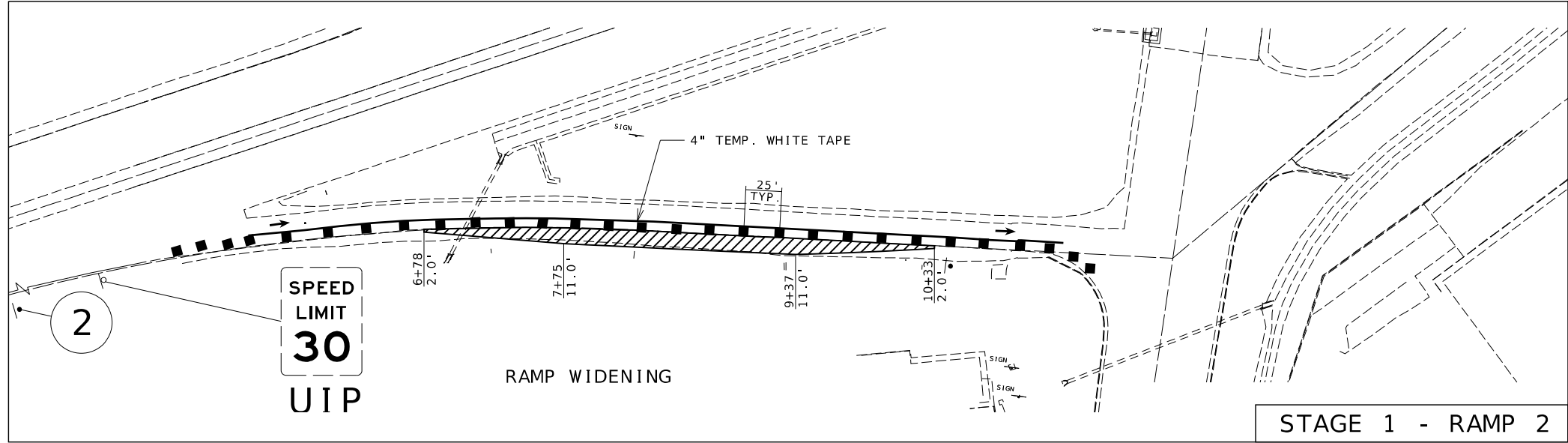
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
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TRAFFIC CONTROL
SHEET 6 OF 9





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TRAFFIC CONTROL SHEET
EB OFF-RAMPS ROUTE 36
STAGES 1 - 3
SHEET 8 OF 9

Paul J. Kronlage
05/29/2025 1:15:02 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED 5/29/2025	
ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 24
COUNTY MACON	
JOB NO. JNE0137	
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)

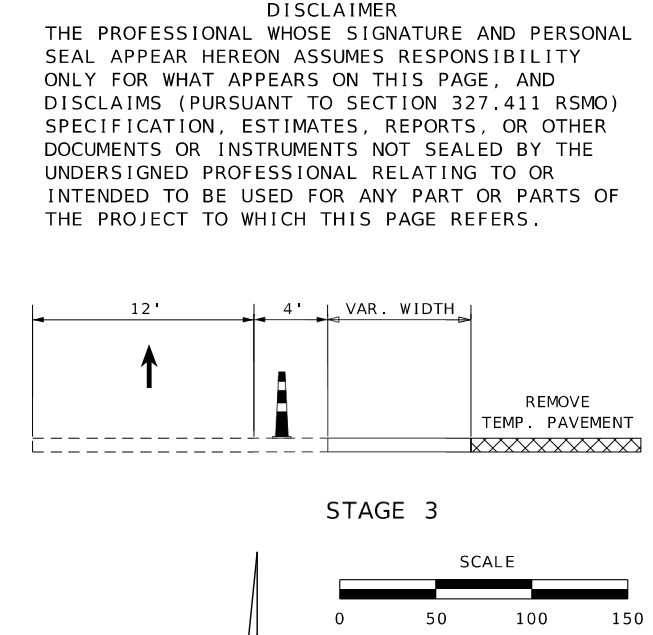
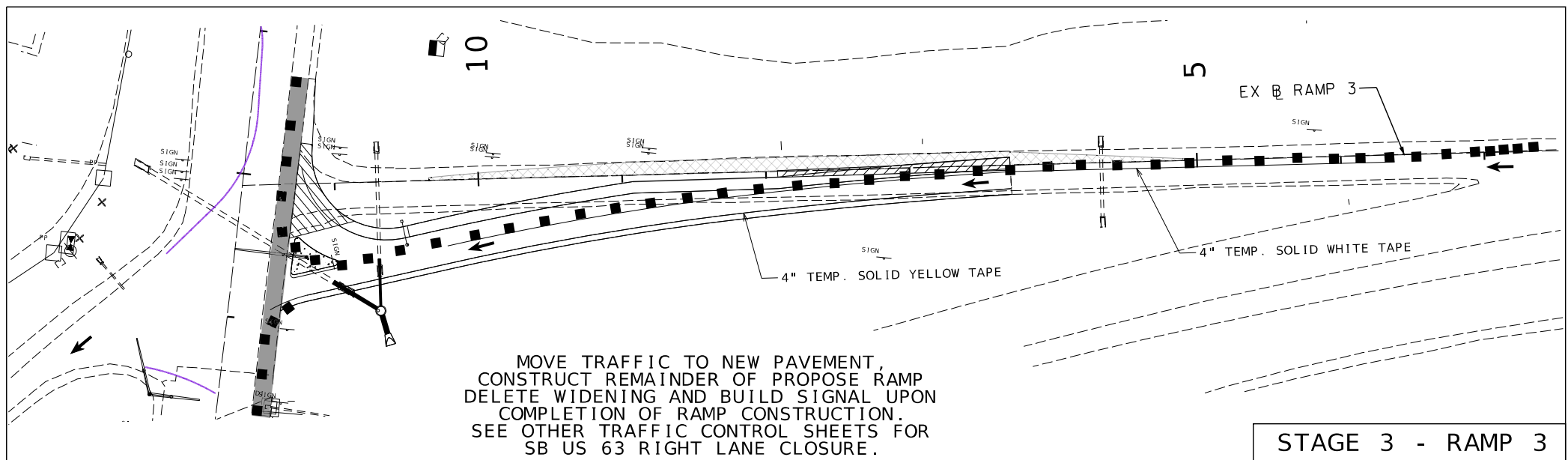
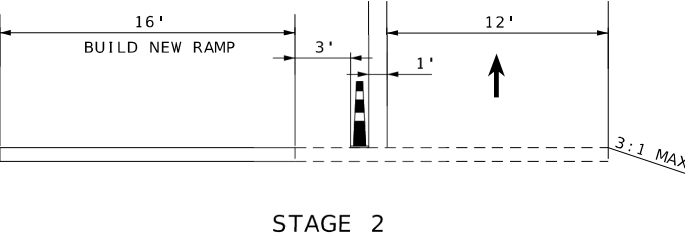
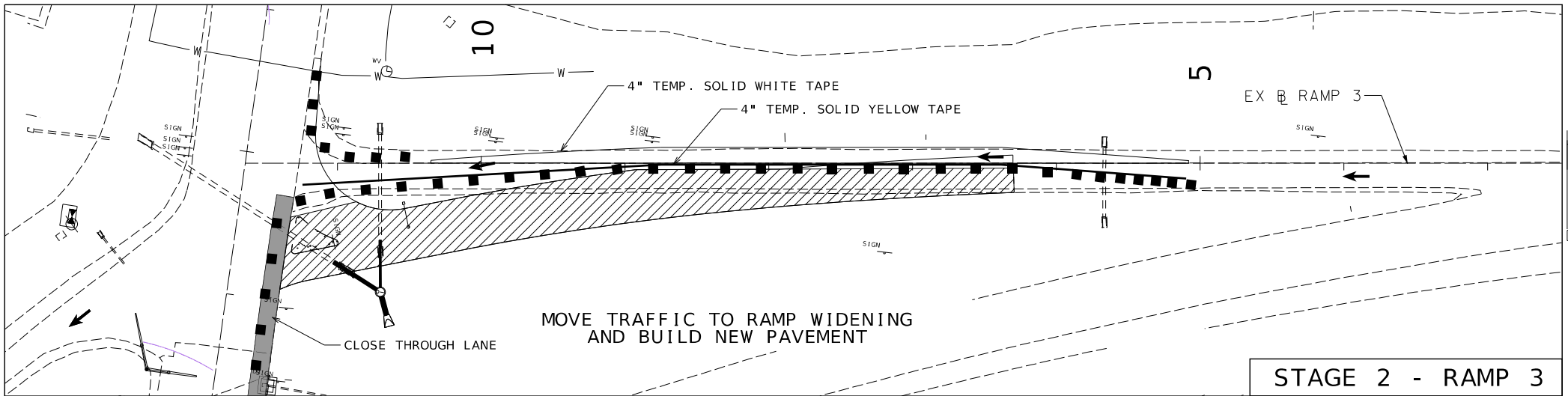
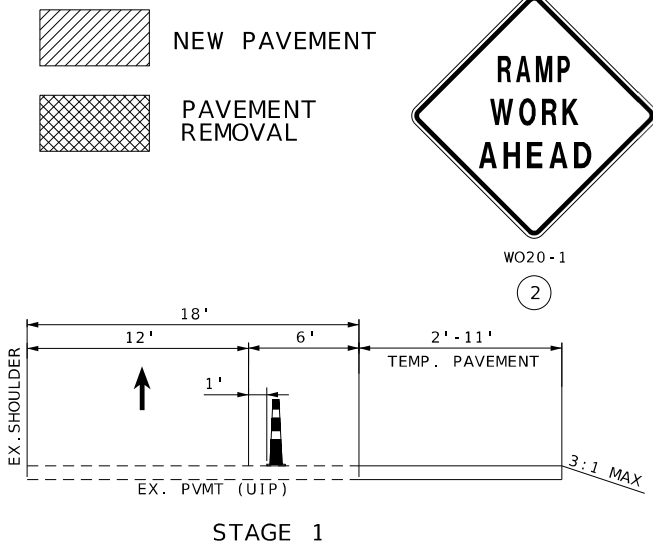
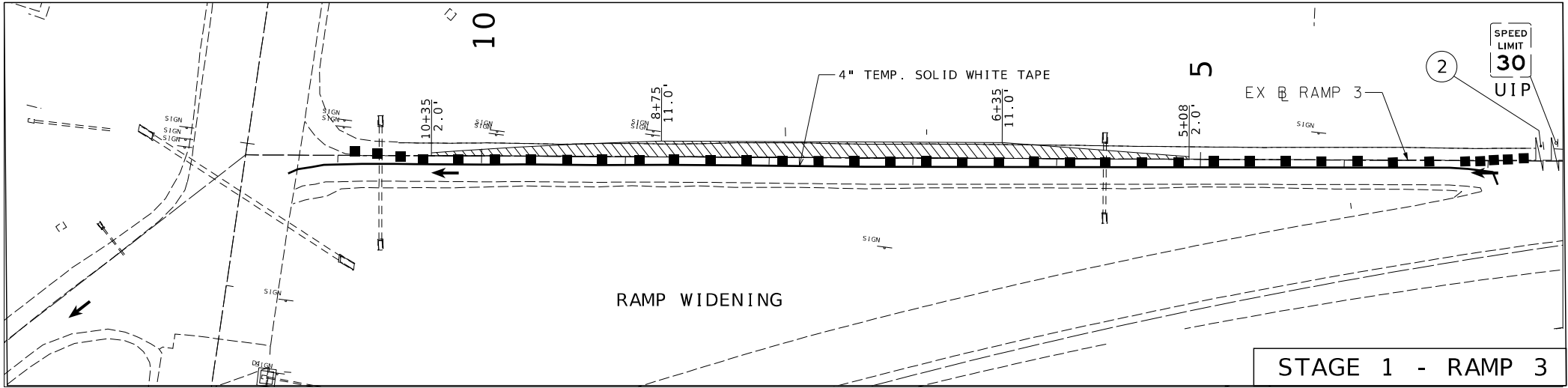
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Suite 250
St. Louis, MO 63021

Phone 314-394-3100
Fax 314-394-3199

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SCALE
0 50 100 150

TRAFFIC CONTROL SHEET
WB OFF-RAMP ROUTE 36
STAGES 1 - 3
SHEET 9 OF 9

Paul J. Kronlage
05/29/2025 1:15:24 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED 5/29/2025	
ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 25
COUNTY MACON	
JOB NO. JNE0137	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

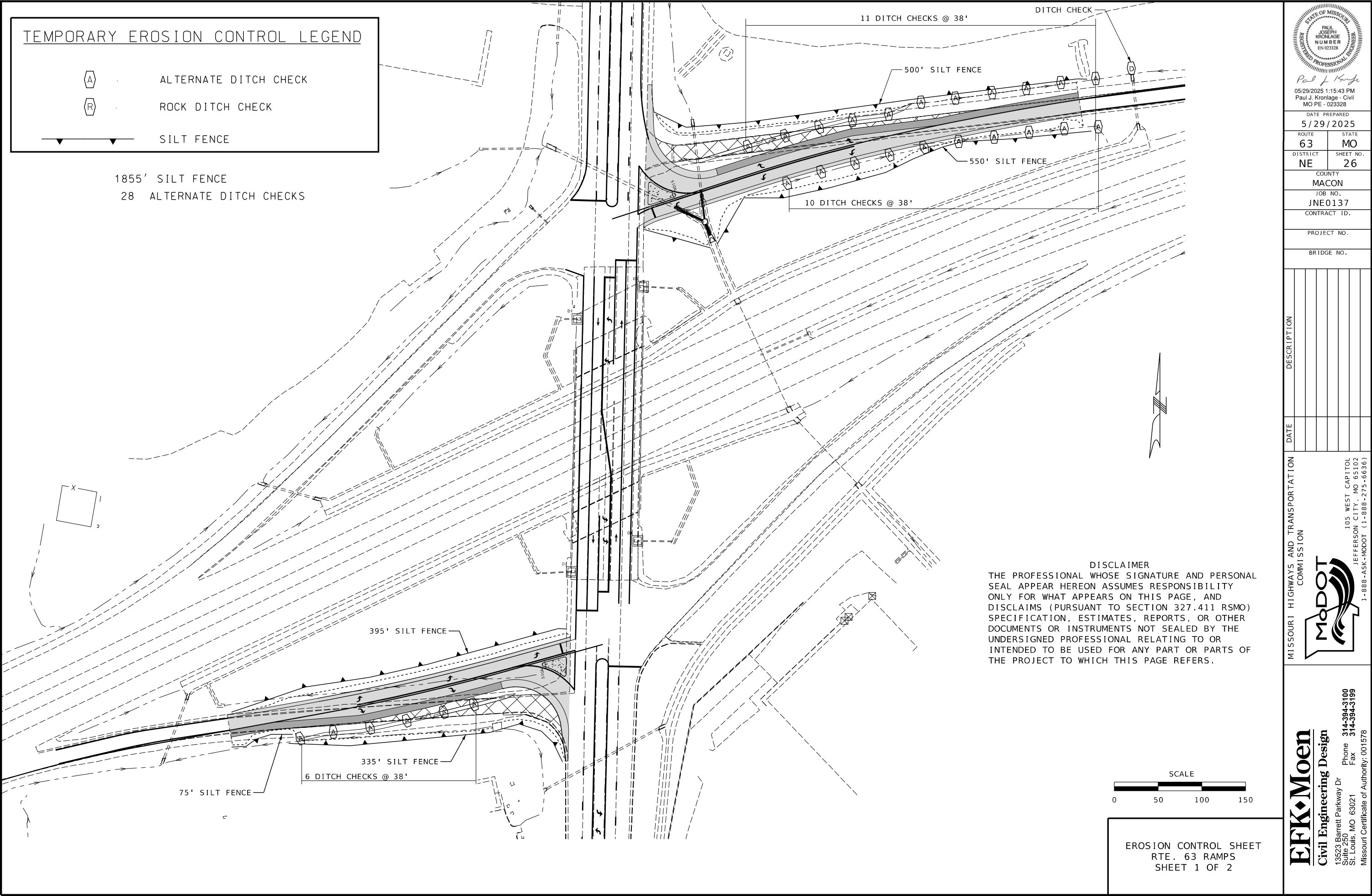
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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TEMPORARY EROSION CONTROL LEGEND

ALTERNATE DITCH CHECK

ROCK DITCH CHECK

SILT FENCE

630' SILT FENCE
3 ALTERNATE DITCH CHECKS

1185

135' SILT FENCE.

KELLOGG AVE.

—145' SILT FENCE

- C RTE 36

WB RTE 36

— 100' SILT FENCE

DITCH CHECK -

EB RTE 36

120' SILT FENCE

KELLOGG AVE.

130' SILT FENCE

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Paul J. Kronlage
07/01/2025 2:02:50 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED

ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 27

COUNTY
MACON
JOB NO.
JNE0137
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



EFK♦Moen
Civil Engineering Design
13223 Barrett Parkway Dr.

13523 Barren Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

EROSION CONTROL SHEET
@ KELLOGG
SHEET 2 OF 2

Paul J. Kronlage
05/29/2025 1:16:26 PM
Paul J. Kronlage - Civil
MO PE - 023328

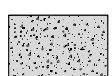
BRIDGE NO.

COL
02
(36)



MISSOURI
DEPARTMENT OF
TRANSPORTATION
JEFFERSON
1-888-ASK-MODOT

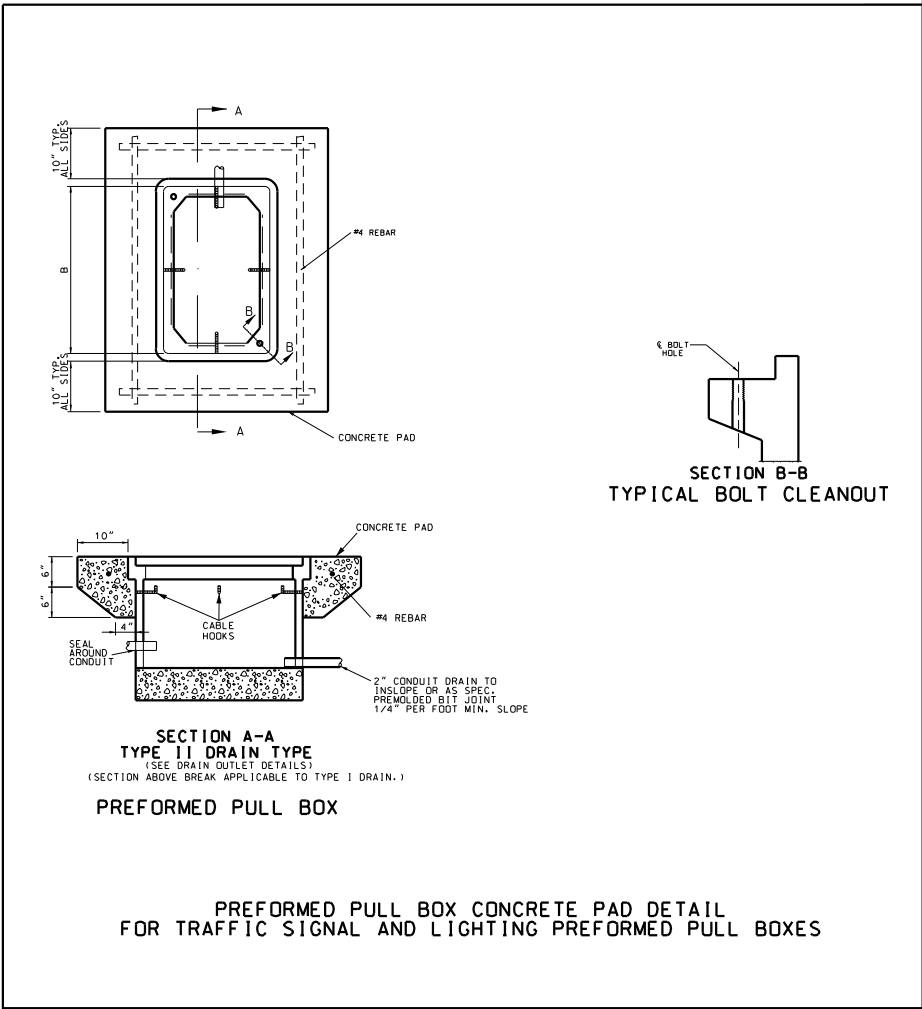
EFC Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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PROPOSED 8" CONCRETE
MEDIAN STRIP

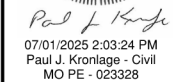
LIGHTING PLAN
SHEET 1 OF 2

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



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DATE PREPARED
7/1/2025

ROUTE 63	STATE MO
-------------	-------------

DISTRICT	SHEET NO
NF	29

COUNTY
MACON

JOB NO.
INE0137

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

PROJECT NO.

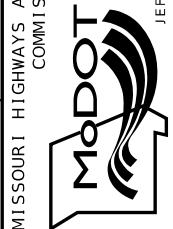
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

105 WEST CAPITAL
JEFFERSON CITY, MO 65102



JEFF MOEN
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021

Phone 314 351-1100
Fax 314 351-1101

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021

Missouri Certificate of Authority: 001578

LIGHTING LEGEND

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

LEGEND :

- PROPOSED PAVEMENT
- PROPOSED 8" CONCRETE
MEDIAN STRIP

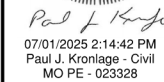
SCALE



LIGHTING SHEET
SHEET 2 OF 2

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DATE PREPARED
7/1/2025

ROUTE 63	STATE MO
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DISTRICT	SHEET NO.
NF	30

COUNTY
MACON

JOB NO.
INE0137

CONTRACT ID.

PROJECT NO.

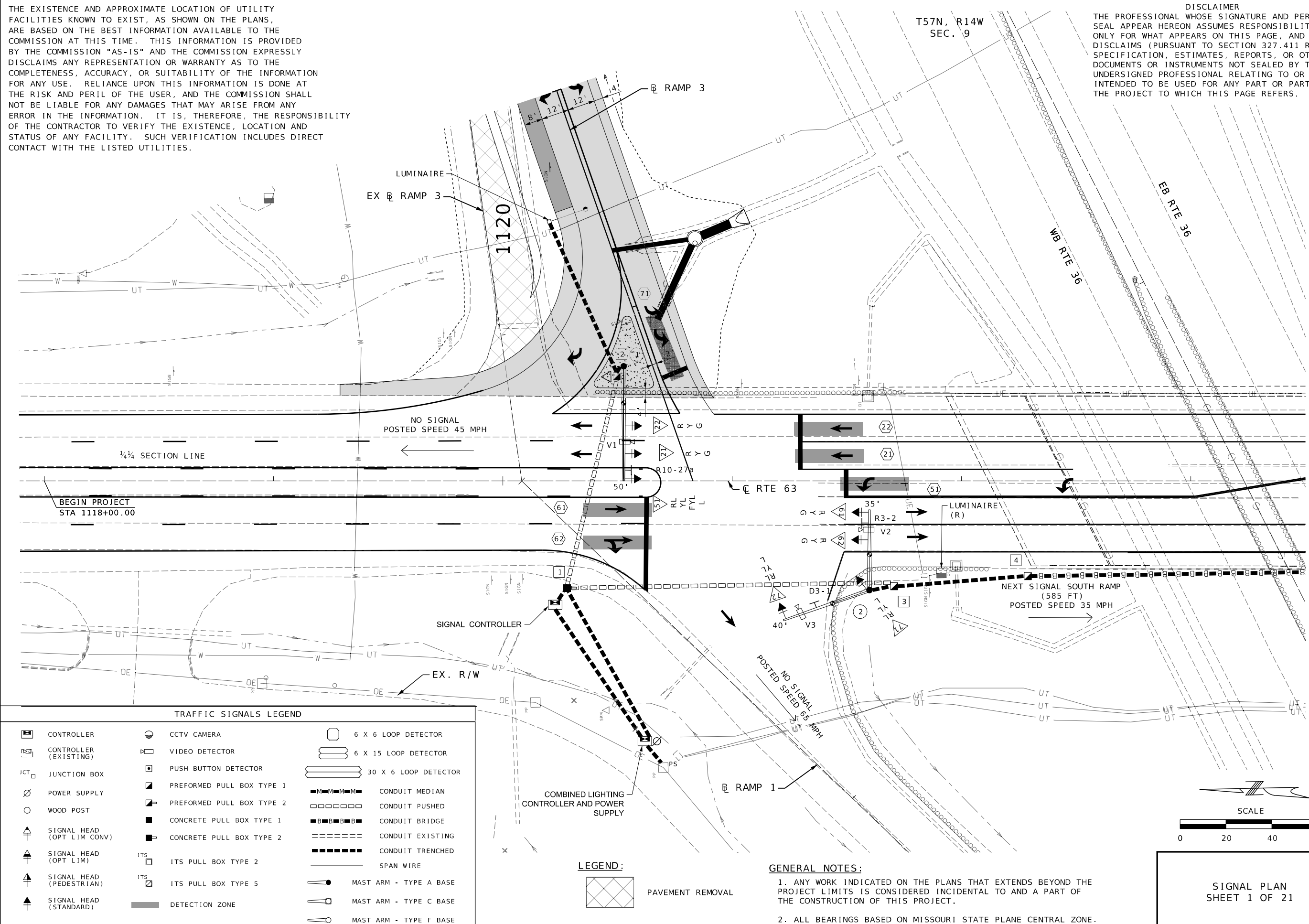
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO. 65102

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Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199



EFFECTIVE: 07/01/2018

LEFT TURN
YIELD
ON
FLASHING
ARROW

R10-27a

STREET

1
2

AMPS

SIGNAL PLAN
SHEET 2 OF 21

Paul J. Kronlage 05/29/2025 1:24:09 PM Paul J. Kronlage - Civil MO PE - 023328	
DATE PREPARED 5/29/2025	
ROUTE 63	STATE MO
DISTRICT NE	SHEET NO. 31
COUNTY MACON	
JOB NO. JNE0137	
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)	
EFK Moen Civil Engineering Design 13523 Barrett Parkway Dr Suite 250 St. Louis, MO 63021 Phone 314-394-3100 Fax 314-394-3199 Missouri Certificate of Authority: 001578	

R3-2

R10-27a

N MISSOURI STREET

D3-1
POST 2

INTERSECTION
& RTE 36 WB RAMPS

SIGNAL PLAN
SHEET 2 OF 21

D-37A

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EFK Moen

Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
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REMARKS
ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.
SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

LEGEND

T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

RTE 63 & RTE 36 WB RAMPS INTERSECTION

D-37A

SIGNAL PLAN
SHEET 2 OF 21

EFK♦Moen
Civil Engineering Design

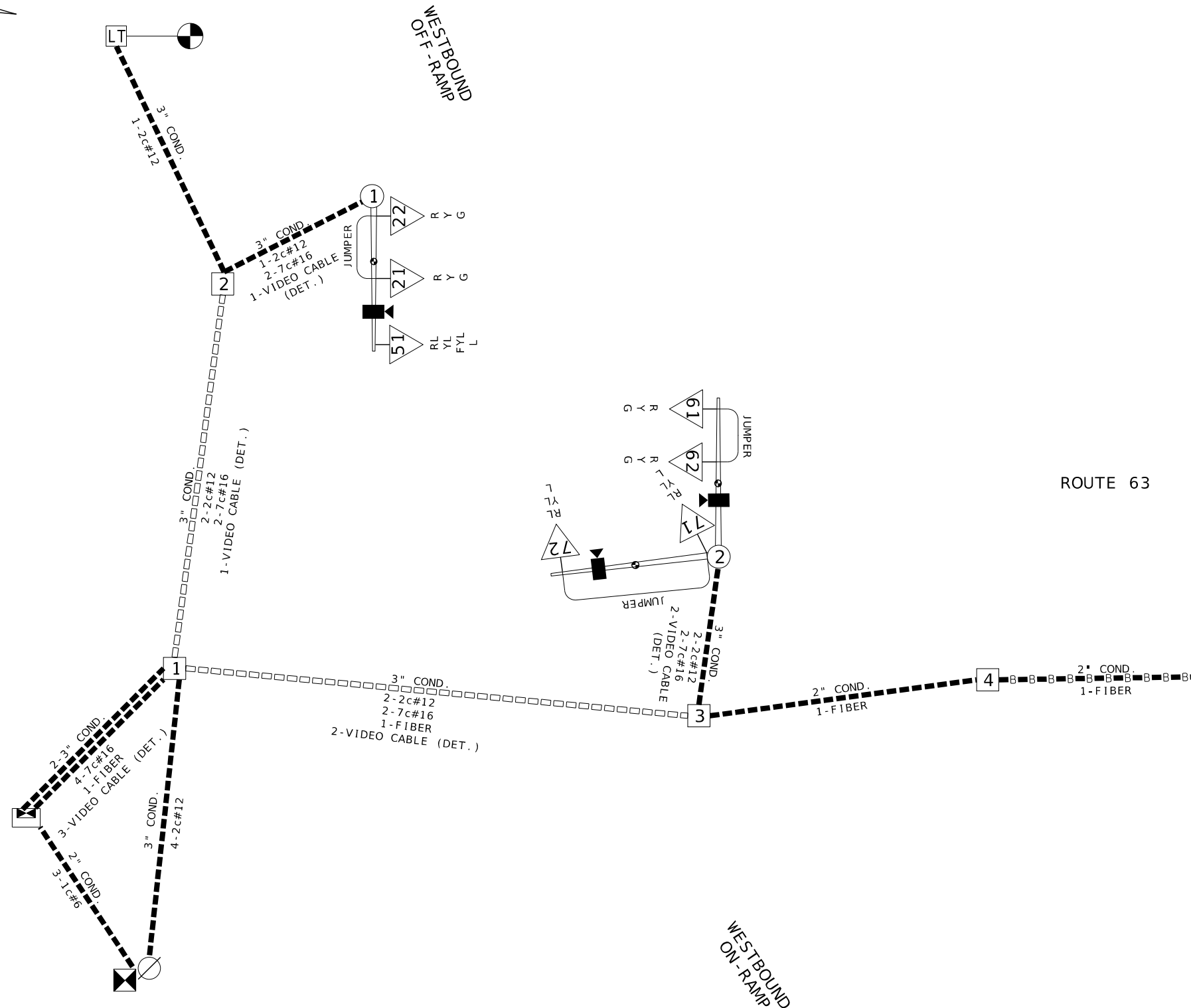
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Missouri Certificate of Authority: 001578

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITAL
JEFFERSON CITY, MO 65102

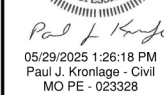
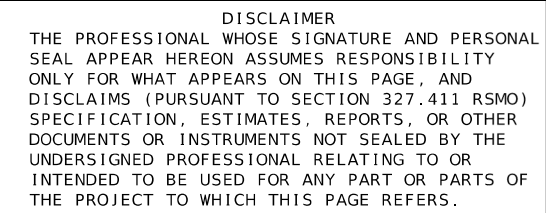


INTERSECTION

3" CONDUIT CONTAINING CABLE WITH SIZE	
CABLE	
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
	PULL BOX WITH NUMBER
	POST WITH NUMBER
	POST WITH MAST ARM
	POST WITH MAST ARM AND LUMINAIRE
	DETECTOR WITH NUMBER
	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY ASSEMBLY
	LIGHTING CONTROLLER
	POWER SOURCE
	VIDEO DETECTION
	CCTV CAMERA

SIGNAL PLAN
SHEET 5 OF 21

D-37D



DATE PREPARED
5/29/2025

ROUTE	STATE
63	MO

DISTRICT	SHEET
NF	36

COUNTY
MACON

JOB NO.
INE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO. 65102

EFC Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199

TRAFFIC SIGNALS LEGEND			
	CONTROLLER		CCTV CAMERA
	CONTROLLER (EXISTING)		VIDEO DETECTOR
JCT 	JUNCTION BOX		PUSH BUTTON DETECTOR
	POWER SUPPLY		PREFORMED PULL BOX TYPE 1
	WOOD POST		PREFORMED PULL BOX TYPE 2
	SIGNAL HEAD (OPT LIM CONV)		CONCRETE PULL BOX TYPE 1
	SIGNAL HEAD (OPT LIM)		CONCRETE PULL BOX TYPE 2
	SIGNAL HEAD (PEDESTRIAN)	ITS 	ITS PULL BOX TYPE 2
	SIGNAL HEAD (STANDARD)	ITS 	ITS PULL BOX TYPE 5
			DETECTION ZONE
			6 X 6 LOOP DETECTOR
			6 X 15 LOOP DETECTOR
			30 X 6 LOOP DETECTOR
			CONDUIT MEDIAN
			CONDUIT PUSHED
			CONDUIT BRIDGE
			CONDUIT EXISTING
			CONDUIT TRENCHED
			SPAN WIRE
			MAST ARM - TYPE A BASE
			MAST ARM - TYPE C BASE
			MAST ARM - TYPE F BASE

EFFECTIVE: 07/01/2018

[illegible]

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

LEGEND

T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

RTE 63 & RTE 36 EB RAMPS INTERSECTION

SIGNAL PLAN
SHEET 8 OF 21

D-37A

[illegible]

DATE PREPARED	
7/1/2025	
ROUTE	STATE
63	MO
DISTRICT	SHEET NO.
NE	39
COUNTY	
MACON	
JOB NO.	
JNE0137	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

— — — — —

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SPECIAL SHEETS, PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/UNINTERRUPTIBLE POWER SUPPLY, REFER TO POWER SUPPLY W/UPS JSP.

(4) VIDEO DETECTION SYSTEM PAID FOR EACH INTERSECTION.

(5) INSTALL NETWORK CONNECTED SIGNAL MONITOR: 1 EA

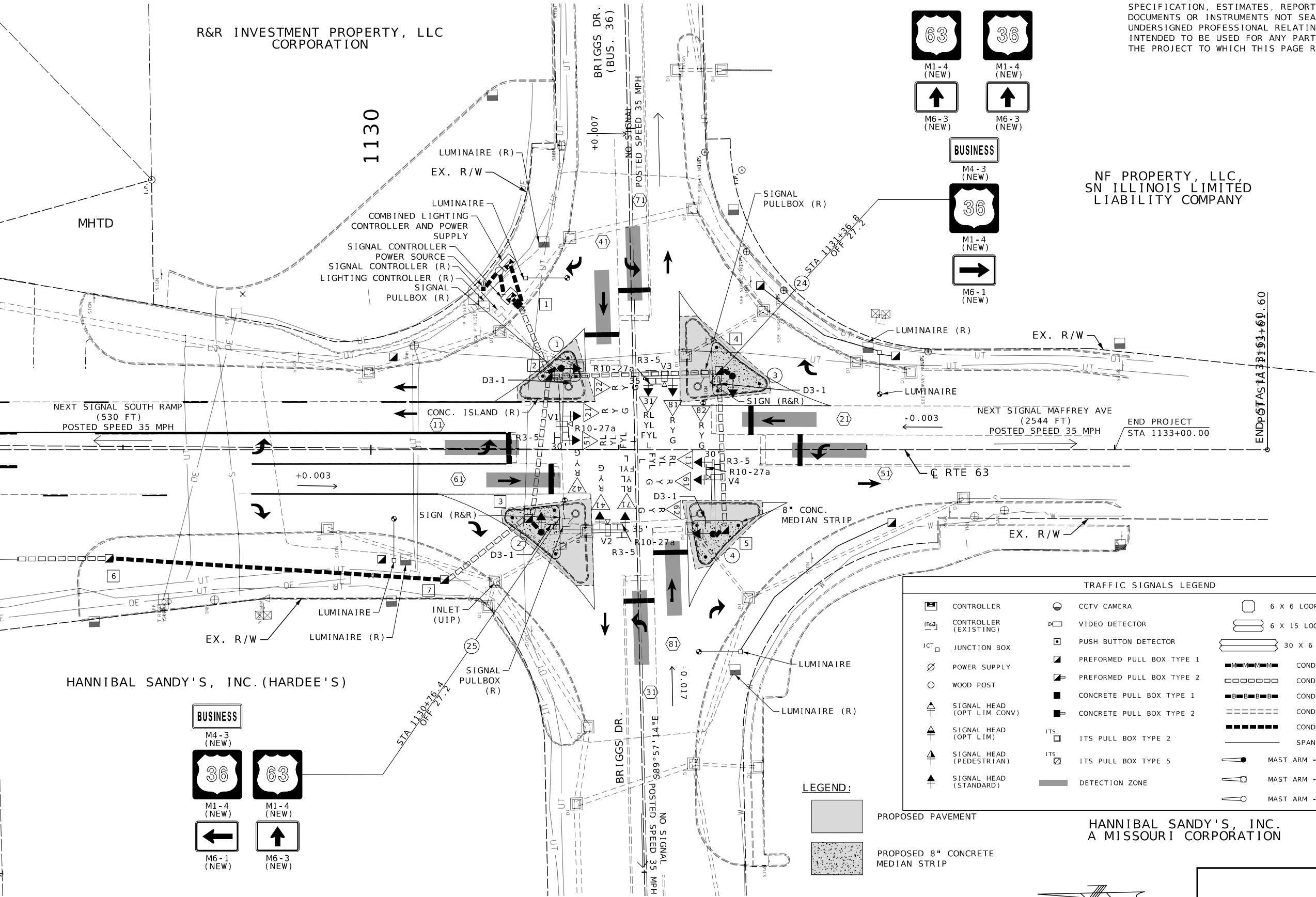
[illegible]

170 OUTPUT FILE ASSIGNMENTS							
FR1							MONITOR
FR2							
FR3							
FR4							

170 AUXILIARY OUTPUT FILE							
FR5							X
FR6							

SIGNAL PLAN
SHEET 10 OF 21

D-37C



R&R INVESTMENT PROPERTY, LLC CORPORATION

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Paul J. Kronlage
05/29/2025 1:33:55 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED

5/29/2025

ROUTE STATE

63 MO

DISTRICT SHEET NO.

NE 42

COUNTY

MACON

JOB NO.

JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

MoDOT

MoDOT

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TRAFFIC SIGNALS LEGEND					
	CONTROLLER		CCTV CAMERA		6 X 6 LOOP DETECTOR
	CONTROLLER (EXISTING)		VIDEO DETECTOR		6 X 15 LOOP DETECTOR
	JUNCTION BOX		PUSH BUTTON DETECTOR		30 X 6 LOOP DETECTOR
	POWER SUPPLY		PREFORMED PULL BOX TYPE 1		CONDUIT MEDIAN
	WOOD POST		PREFORMED PULL BOX TYPE 2		CONDUIT PUSHED
	SIGNAL HEAD (OPT LIM CONV)		CONCRETE PULL BOX TYPE 1		CONDUIT BRIDGE
	SIGNAL HEAD (OPT LIM)		CONCRETE PULL BOX TYPE 2		CONDUIT EXISTING
	SIGNAL HEAD (PEDESTRIAN)		ITS PULL BOX TYPE 2		CONDUIT TRENCHED
	SIGNAL HEAD (STANDARD)		ITS PULL BOX TYPE 5		SPAN WIRE
			DETECTION ZONE		MAST ARM - TYPE A BASE
					MAST ARM - TYPE C BASE
					MAST ARM - TYPE F BASE

LEGEND:



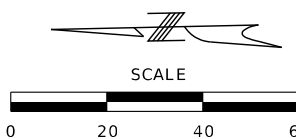
PROPOSED PAVEMENT



PROPOSED 8" CONCRETE MEDIAN STRIP

HANNIBAL SANDY'S, INC.
A MISSOURI CORPORATION

SIGNAL PLAN
SHEET 13 OF 21



EFFECTIVE: 07/01/2018

[illegible][illegible]

MISSOURI HIGHWAY

MoDOT

1-888

POST 1 & 4

N Missouri St

D3-1
POST 2 & 3

RTE 63 & BRIGGS DR
INTERSECTION

SIGNAL PLAN
SHEET 14 OF 21

LEGEND

T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021

Phone 314-394-3100
Fax 314-394-3199

Missouri Certificate of Authority: 001578

DATE PREPARED
7/1/2025

DISTRICT	SHEET NO
NF	45

JOB NO.
INE0137

PROJECT NO.

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DATE						
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3199

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Dr _____

K **gine**
tt Park
D 630



American Bar Association
3523 | Suite 2
t. Lou

08 PM 7/1/20

[illegible]

		NEMA DETECTOR ASSIGNMENT							
		CARD POSITION							
		1	2	3	4	5	6	7	8
C H A N N E L	1	11	21	31	41				
	2	61	51	81	71				

DETECTOR SCHEDULE						
DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO DETECTION SYSTEM (4)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11	RTE 63					1 EACH
21	RTE 63					
31	BRIGGS DR					
41	BRIGGS DR					
51	RTE 63					
61	RTE 63					
71	BRIGGS DR					
81	BRIGGS DR					
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TOTAL						

(5) INSTALL NETWORK CONNECTED SIGNAL MONITOR: 1 EA

[illegible][illegible]

FR5							
FR6							

170 OUTPUT FILE ASSIGNMENTS							
FR1							MONITOR
FR2							
FR3							
FR4							

INTERSECTION

D-37C

DATE PREPARED
5/29/2025

COUNTY
MACON

BRIDGE NO.

[illegible][illegible][illegible]

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E

Barre
s, M
i Co

B **Civ** 135
Swift
St. I
Misc

BRIGGS DR.
(BUS. 36)



US 63 & BRIGGS DR
INTERSECTION

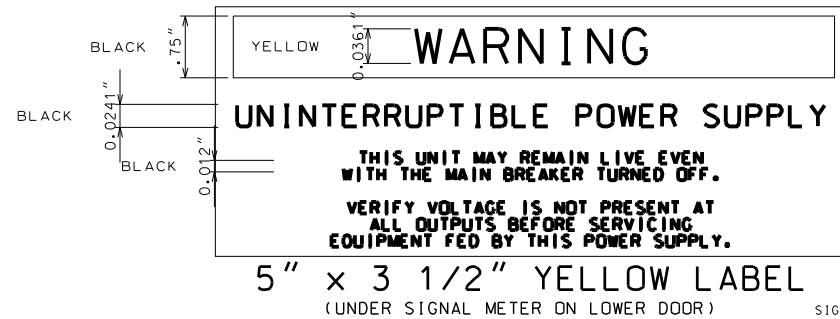
3" CONDUIT CONTAINING CABLE WITH SIZE	
CABLE	
X-XC	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
	PULL BOX WITH NUMBER
	POST WITH NUMBER
	POST WITH MAST ARM
	POST WITH MAST ARM AND LUMINAIRE
	DETECTOR WITH NUMBER
	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY ASSEMBLY
	LIGHTING CONTROLLER
	POWER SOURCE
	VIDEO DETECTION
	CCTV CAMERA

D-37D

Phone 314-394-3100
Fax 314-394-3199
Suite 250
St. Louis, MO 63021
Missouri Certificate of Authority: 001578

Missouri Certificate of Authority: 001578

1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER. BLACK
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER. BLACK
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR. BLACK
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED. BLACK
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH 1/2" SILICONE CAULK. BLACK
6. ALL MATERIALS REQUIRED INCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'PAD MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY.' CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE. BRIGHT RED
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.



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

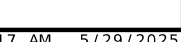
NOTES

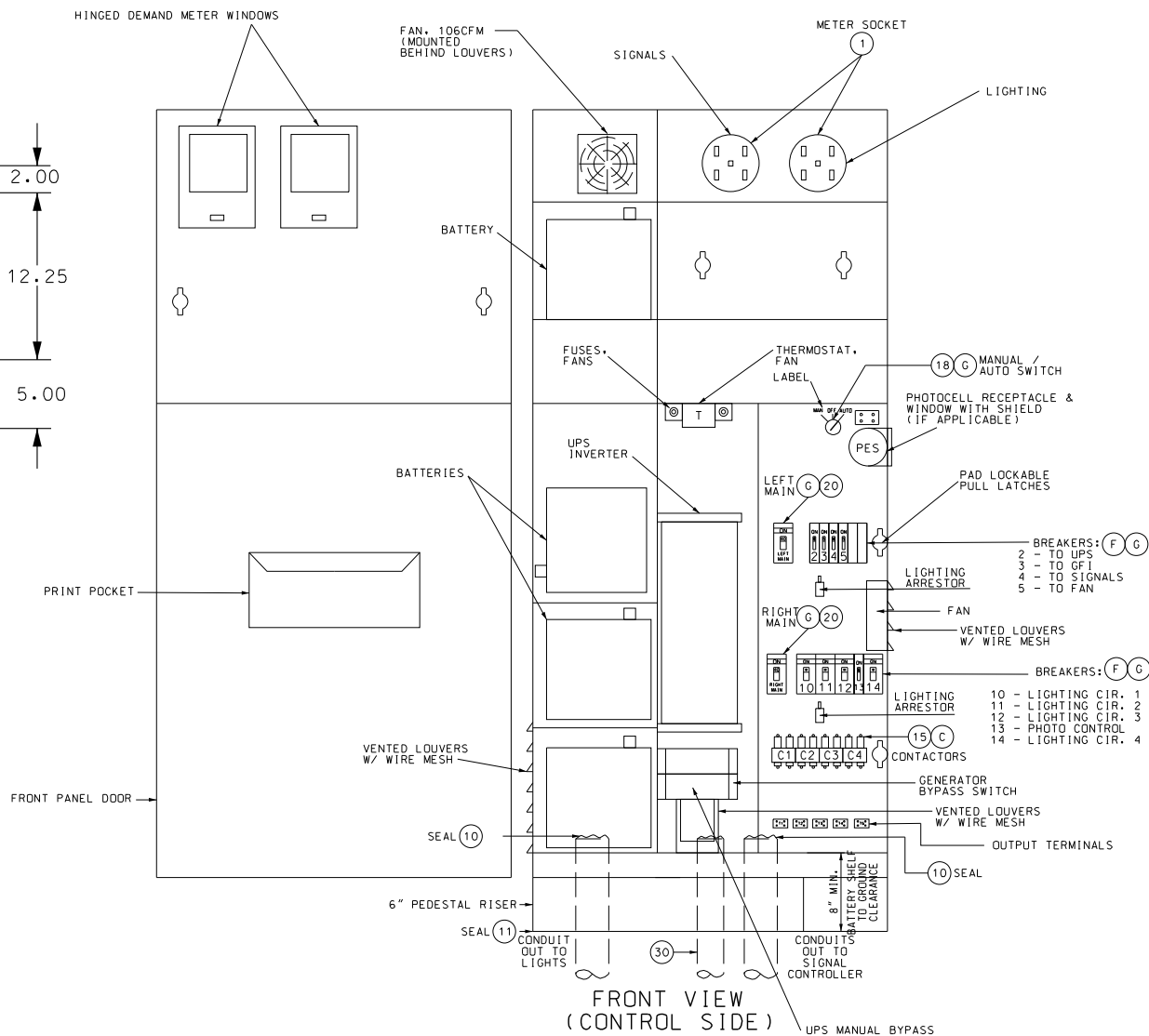
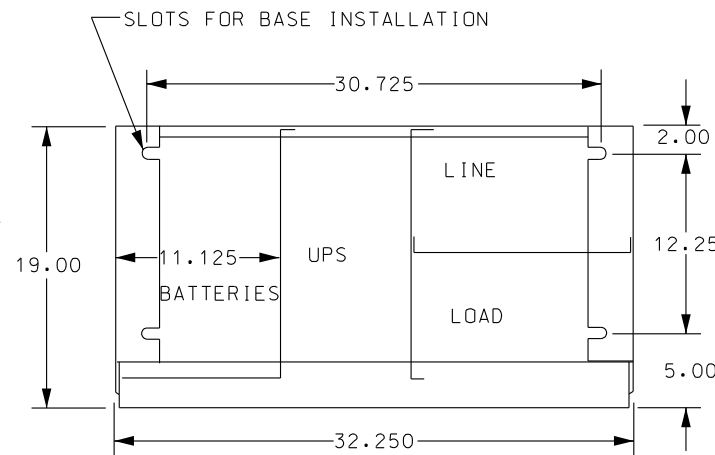
- (A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.
- (B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.
- (C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.
- (D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.
- (E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.
- (F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL	120V TOTAL
	CIRCUIT LOAD (WATTS)	CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

- (G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.
- (H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.
- (I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.
- (J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.
- (K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.





[illegible]

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

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(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

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(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

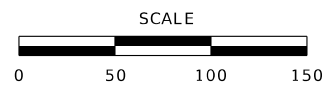
(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

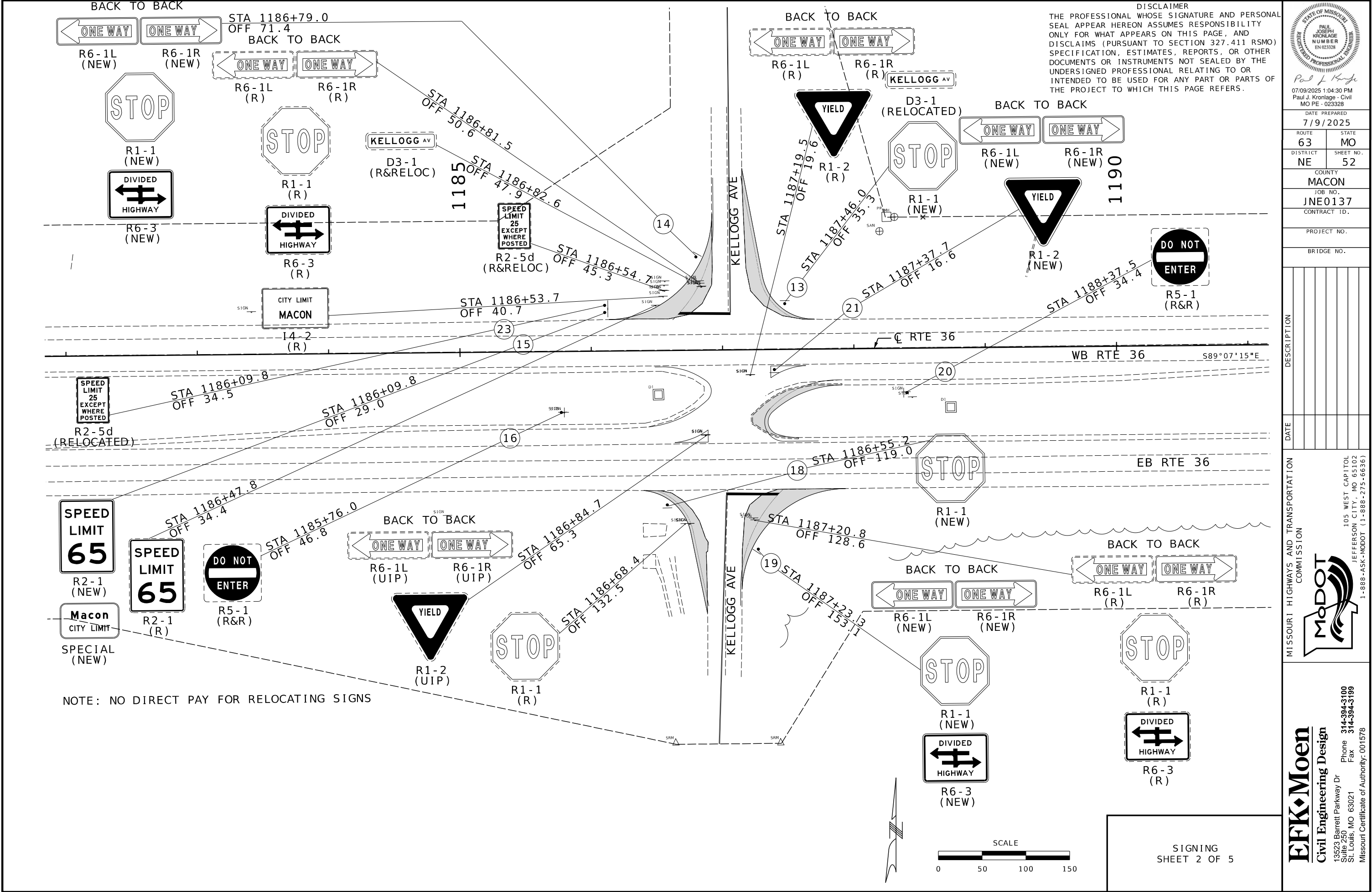
EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314/578-3141
Fax 314/578-3141
Missouri Certificate of Authority: 001578

WHITE 36" SURFACE-MOUNT
DELINEATOR POST PLACED AT THE
RADIUS POINTS OF CONCRETE
ISLAND (TYP.)



EFK♦Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314 314-3143
Fax 314 314-3143
Missouri Certificate of Authority: 001578





SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

CONCRETE FOOTINGS EMBEDDED

ITEM NO. 9031010
CY

STRUCTURAL STEEL POSTS*

POST DES NO. LF LF LF LF LBS PER FT
ITEM NO. 9031210 LBS

PIPE POSTS*

PIPE SIZE NO.1 NO.2 LBS PER FT
ITEM NO. 9031220 LBS

BACKING BARS**

2" X 3/8" BARS AT 2.55 LBS/FT
ITEM NO. 9031250A LF

U-CHANNEL POST

POST NO.1 LF POST NO.2 LF

PERFORATED SQUARE STEEL TUBE

2-INCH POST

ANCHORS
DRIVEN 12 GA. 7 GA. 7 GA.
ITEM NO. 9031270A 9031271A 9031273A 9031274

2.5-INCH POST

2.25" INSERT (6 FT)
ITEM NO. 9031280

ANCHORS
DRIVEN 7 GA. 7 GA.
ITEM NO. 9031281A 9031285

BREAK-AWAY ASSEMBLY
ITEM NO. 9031241

EFFECTIVE: 07-01-2024

REMARKS AND OTHER REQUIRED ITEMS

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER
EN 03338
REGISTERED PROFESSIONAL ENGINEER

07/01/2025 2:26:49 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
7/1/2025

ROUTE 63 STATE MO
DISTRICT NE SHEET NO. 53

COUNTY
MACON

JOB NO.
JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK Moen

Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250 St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN	LENGTH	DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3¼"	12"	4-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5-6"	0.36

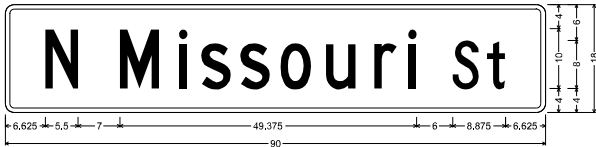
STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST		STUB LENGTH	DIA.	FOOTING							
		WEIGHT				LEVEL GROUND	6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE		
		LBS/FT	LBS/IN				DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGNING SHEET 3 OF 5

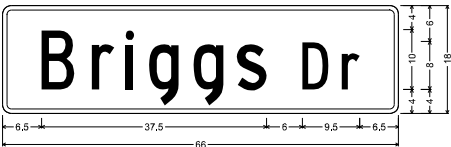
D-29

O:\2022R3\MoDOT_ORD_v10.12.02.04\23046 MoDOT NE0137 Route 63-36 Interchange\DGN\Roadway\Final- Kelllogg Island Removal\Plotsheets\053_SN_03_D-29_NE0137.dgn 1:43:58 PM 7/1/2025



D3-1 SH-FLAT SHEET:
1,500" Radius, 0.750" Border, White on, Green;
"N Missouri", C: "St", C:
Table of letter and object lefts

N	M	I	S	S	O	U	R	I	S	T
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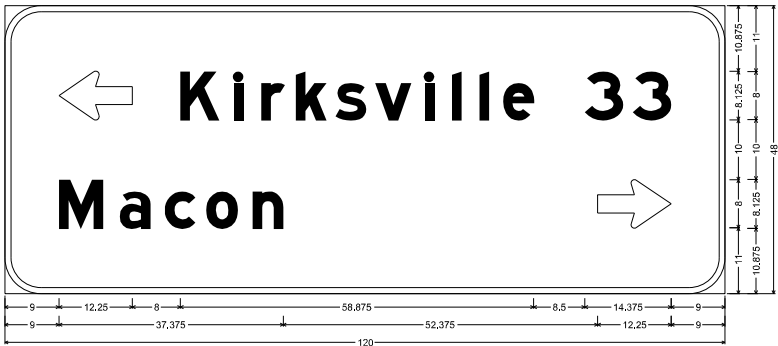


D3-1 SH-FLAT SHEET:
1,500" Radius, 0.750" Border, White on, Green;
"Briggs", C: "Dr", C:
Table of letter and object lefts

B	r	i	g	g	s	D	r
6.500	14.875	20.500	24.500	31.875	39.125	50.000	56.500

SEE SIGNAL SHEETS FOR LOCATIONS

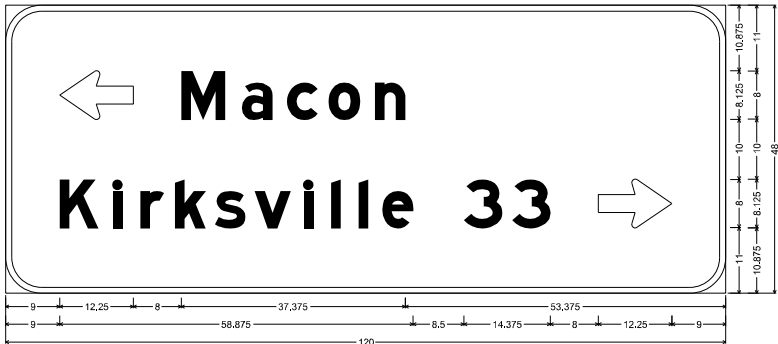
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D1-2a ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green;
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Table of letter and object lefts

K	I	R	K	S	V	I	L	E	3	3
29.250	38.125	42.750	48.500	55.125	61.750	69.875	74.500	79.125	83.000	96.625
M	a	c	o	n						
19.125	26.625	33.500	41.250	96.750						

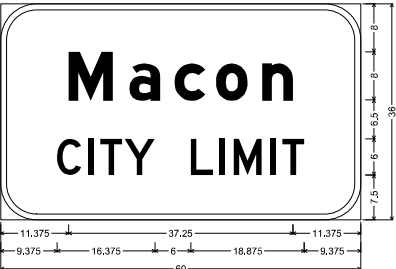
SIGN 10: RAMP 3



D1-2a ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green;
Standard Arrow Custom 12,250" X 8,125" 180"; "Macon", E Mod; "Kirksville", E Mod; "33", E Mod; Standard Arrow Custom 12,250" X 8,125" 0";
Table of letter and object lefts

M	a	c	n							
29.250	39.375	46.875	53.750	61.500						
K	I	R	K	S	V	I	L	E	3	3
17.875	22.500	28.250	34.875	41.500	49.625	54.250	58.875	62.750	76.375	84.375

SIGN 15: RTE 36



M-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green;
"Macon", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

M	a	c	n		
11.375	21.500	29.000	35.875	43.625	
C	I	T	Y	L	I
9.375	14.500	16.625	20.625	31.750	36.500

NOTE:
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

D-31

SIGNING
SHEET 5 OF 5



Paul J. Kronlage
05/29/2025 1:42:09 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
5/29/2025
ROUTE 63 STATE MO
DISTRICT NE SHEET NO. 55
COUNTY
MACON
JOB NO.
JNE0137
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

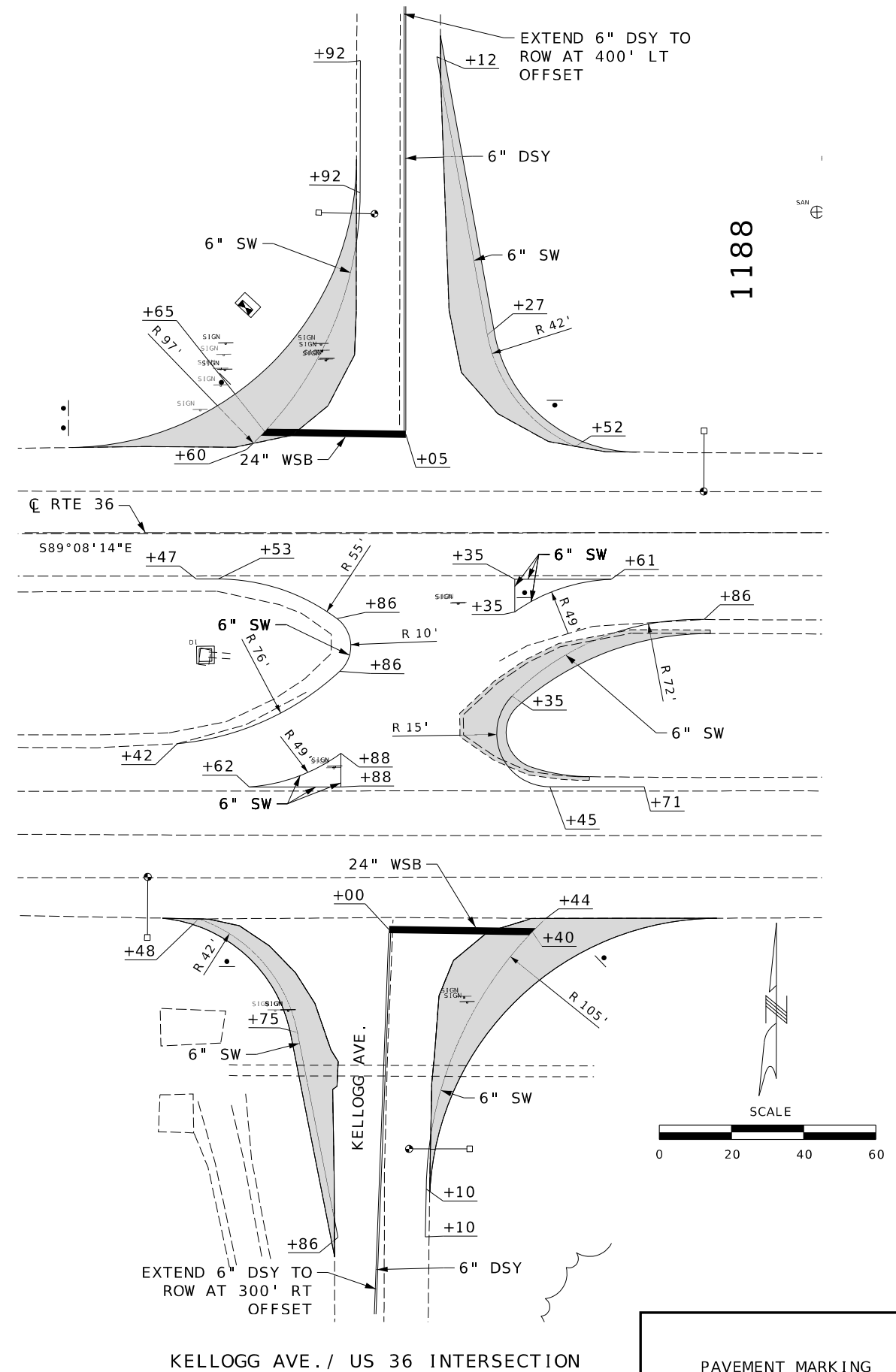
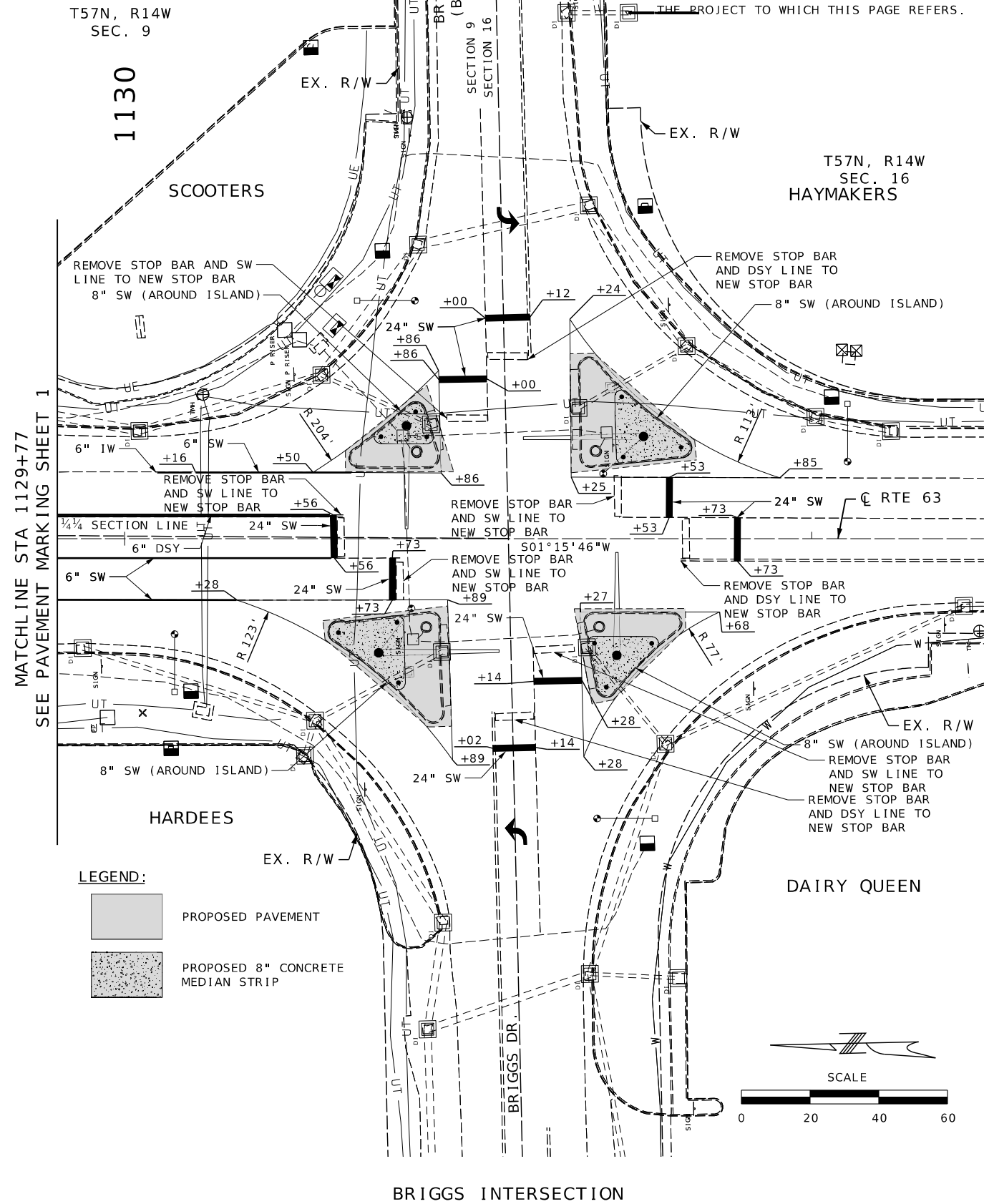
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FINAL PLANS

DISCLAIMER

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PAVEMENT MARKING
SHEET 2 OF 2



Paul J. Kronlage
07/01/2025 2:05:37 PM
Paul J. Kronlage - Civil
MO PE - 023328

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7/1/2025

ROUTE 63	STATE MO
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DISTRICT	SHEET NO.
NE	57

COUNTY
MACON

JOB NO.
JNE0137

CONTRACT ID.

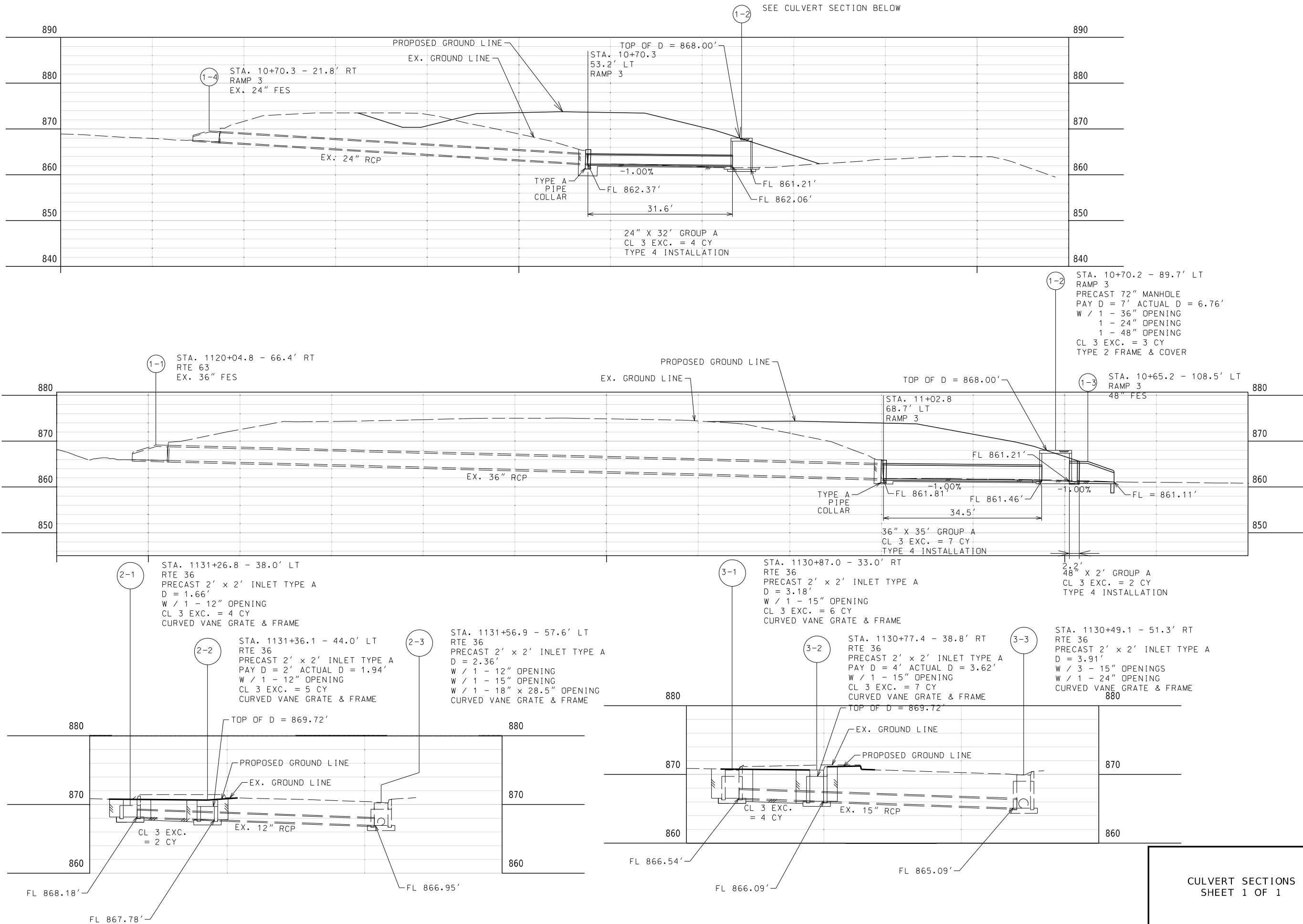
PROJECT NO.	
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BRIDGE NO.

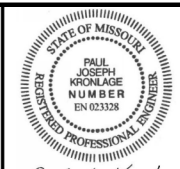
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CULVERT SECTIONS
SHEET 1 OF 1



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MO PE - 023328

DATE PREPARED
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ROUTE 63 STATE MO

DISTRICT NE SHEET NO. 58

COUNTY MACON

JOB NO. JNE0137

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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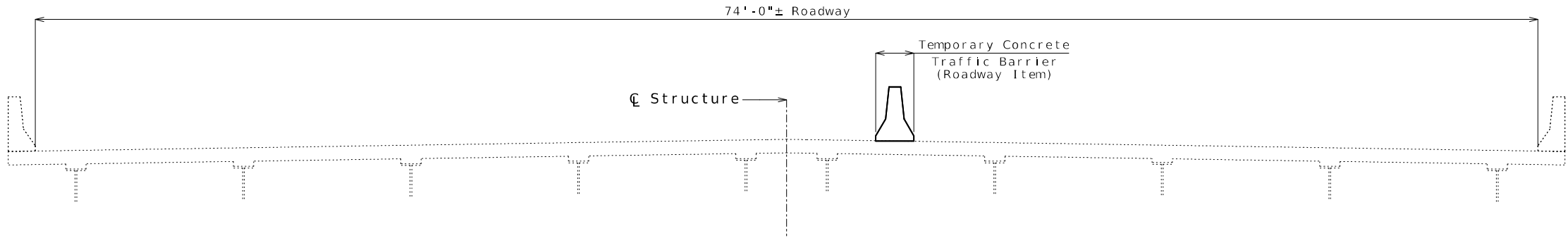
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U.I.P. AND REHABILITATE EXISTING (33'-6") (2'-6" CANTILEVER-75'-75'-2'-6" CANTILEVER) (33'-6")
CONTINUOUS COMPOSITE PLATE GIRDER/WIDE FLANGE SPANS (26°45'00" R.A.)

SEC/SUR 9 TWP 57N RGE 14W



TYPICAL SECTION THRU EXISTING DECK
(Center spans shown, end spans similar)

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:

HS20-44 (1965) HS20-44 (2001 & New Construction)

Design Unit Stresses:

Class B-1 Concrete (Barrier) f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Barrier) f'c = 4,000 psi
Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi
Structural Steel (ASTM A709 Grade 50) fy = 50,000 psi

Fabricated Steel Connection:

Field connections shall be made with 3/4-inch diameter ASTM F3125 Grade A325
Type 1 bolts and 13/16-inch diameter holes, except as noted.

High strength bolts, nuts and washers will be sampled for quality assurance as
specified in Sec. 106.

Miscellaneous:

All concrete repairs shall be in accordance with Sec 704, unless otherwise
noted.

Outline of existing work is indicated by light dashed lines. Heavy lines
indicate new work.

Constructor shall verify all dimensions in field before ordering new
material.

Bars bonded in existing concrete not removed shall be cleanly stripped and
embedded into new concrete where possible. If length is available, existing
bars shall extend into new concrete at least 40 diameters for plain bars and
30 diameters for deformed bars, unless otherwise noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise
noted.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in
accordance with Sec 706 or 710 except that no measurement will be made for
mechanical bar splices and they will be considered completely covered by
the contract unit price for other items.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans
for traffic control.

Vertical clearance for Route 36 traffic during construction shall be 15'-9"
minimum over a 24'-0" wide horizontal opening of the roadway in each direction.

Structural Steel Protective Coatings:

Protective Coating: System G in accordance with Sec 1081.

Prime Coat: The cost of the inorganic zinc prime coat will be considered
completely covered by the contract unit price for the girder catch system.

Estimated Quantities		
Item		Total
Removal of Existing Expansion Joint & Adjacent Concrete	linear foot	332
Remove and Replace Barrier	linear foot	32
Class B-2 Concrete	cu. yd.	38.5
Reinforcing Steel (Epoxy Coated)	pound	5150
Girder Catch System	each	20
Plug Weld Replacement with Bolt	each	211
Strip Seal Expansion Joint System	linear foot	332

REPAIRS TO BRIDGE: ROUTE 63 OVER ROUTE 36

ROUTE 63 FROM STATE ROUTE DD TO STATE ROUTE PP
ABOUT 3.4 MILES SOUTH OF STATE ROUTE DD
BEGINNING STATION 1122+10.22± (Match Existing)

Detailed Mar. 2025
Checked Mar. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 10

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Alex C. Benz
05/23/2025 7:00:09 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED
5/23/2025

ROUTE 63 STATE MO
DISTRICT BR SHEET NO. 1

COUNTY
MACON

JOB NO.
JNE0137

CONTRACT ID.

BRIDGE NO.
A20432

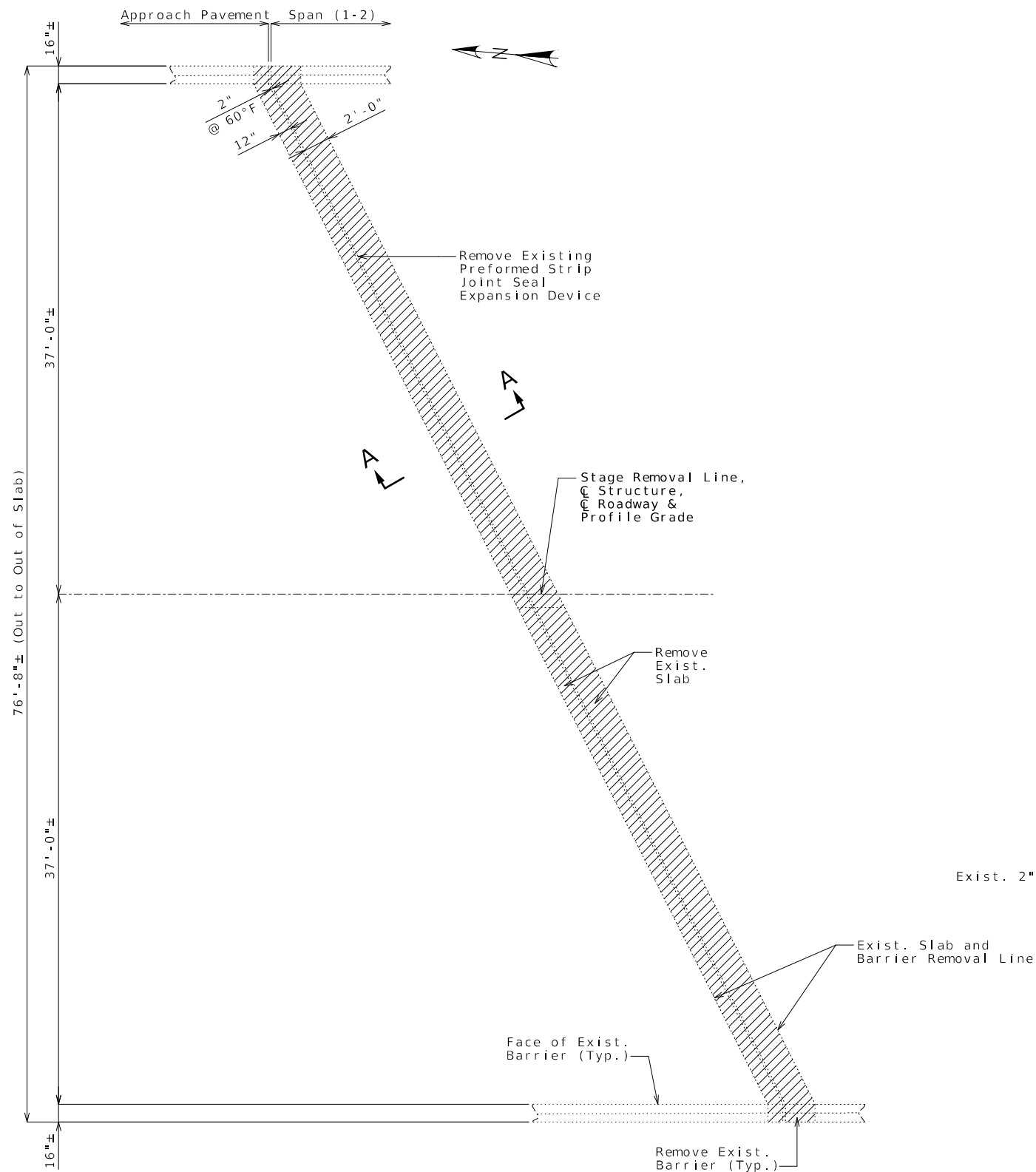
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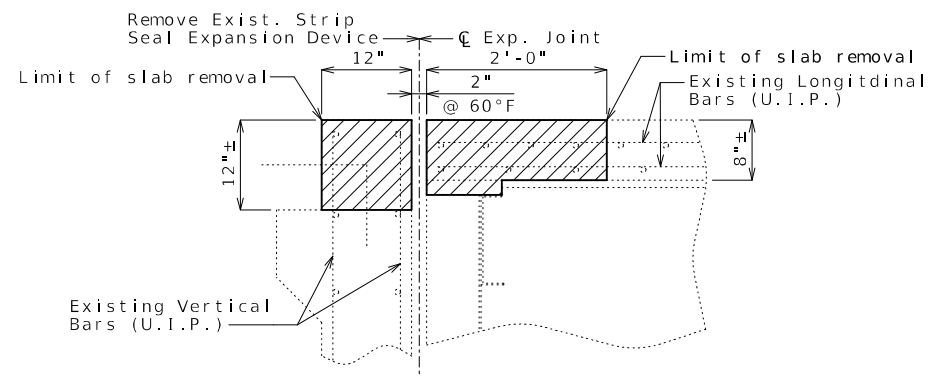
105 WEST CAPITOL
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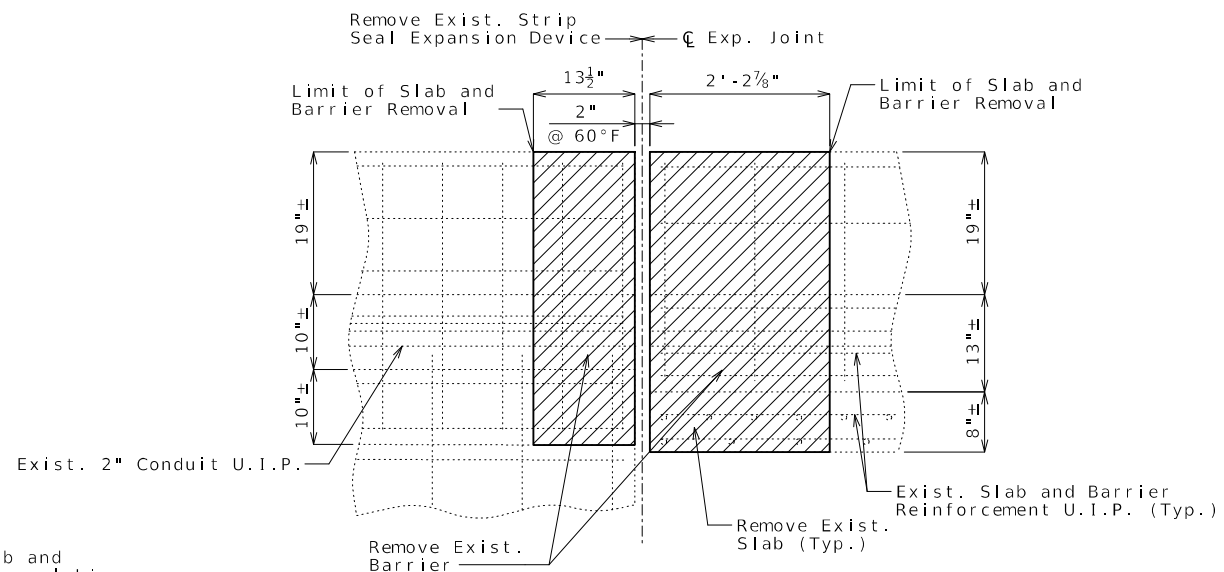
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PART PLAN OF SLAB
AT END BENTS NO. 1 & 5



SECTION A-A



PART ELEVATION OF BARRIER
REMOVAL AT END BENTS NO. 1 & 5

Note:
Remove existing stirrups within limits of Barrier Removal.

REMOVAL DETAILS AT END BENTS NO. 1 & 5

(End Bent No. 1 shown, End Bent No. 5 similar)
Sheet No. 2 of 10

Note: This drawing is not to scale. Follow dimensions.

Detailed Mar. 2025
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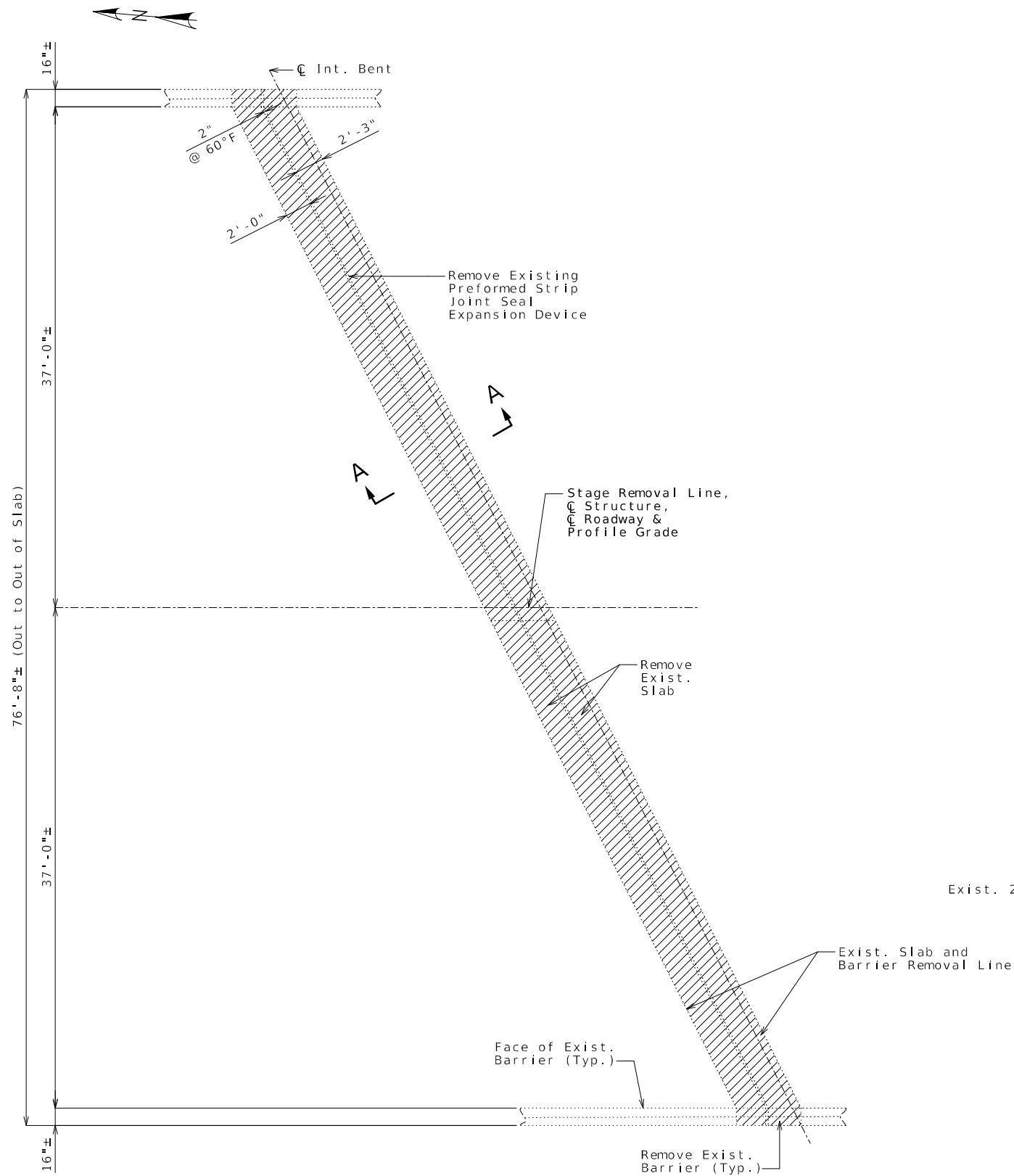
Alex Benz
05/23/2025 6:59:59 AM
Alex Benz - Civil
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5/23/2025
ROUTE 63 STATE MO
DISTRICT BR SHEET NO. 2
COUNTY MACON
JOB NO. JNE0137
CONTRACT ID.

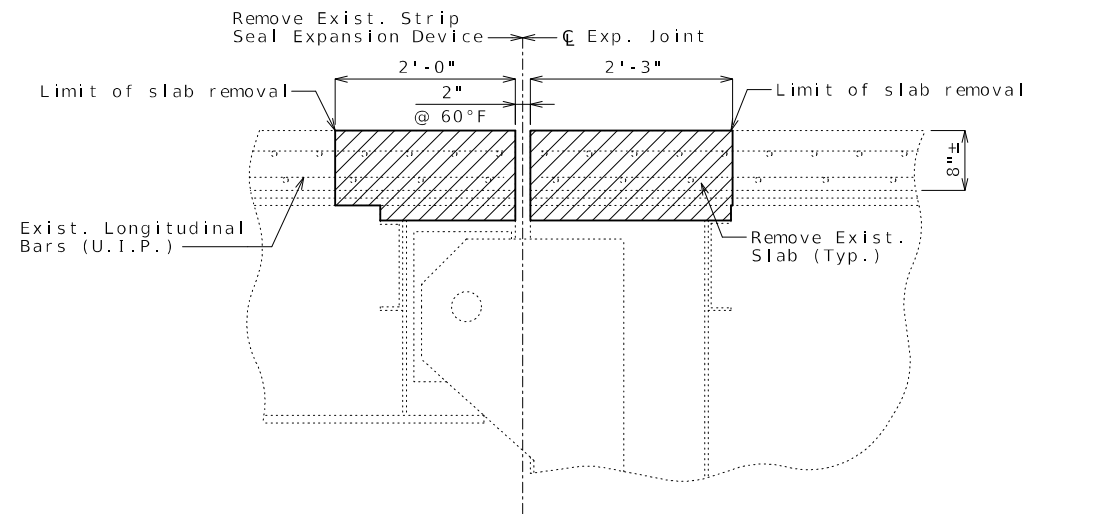
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A20432

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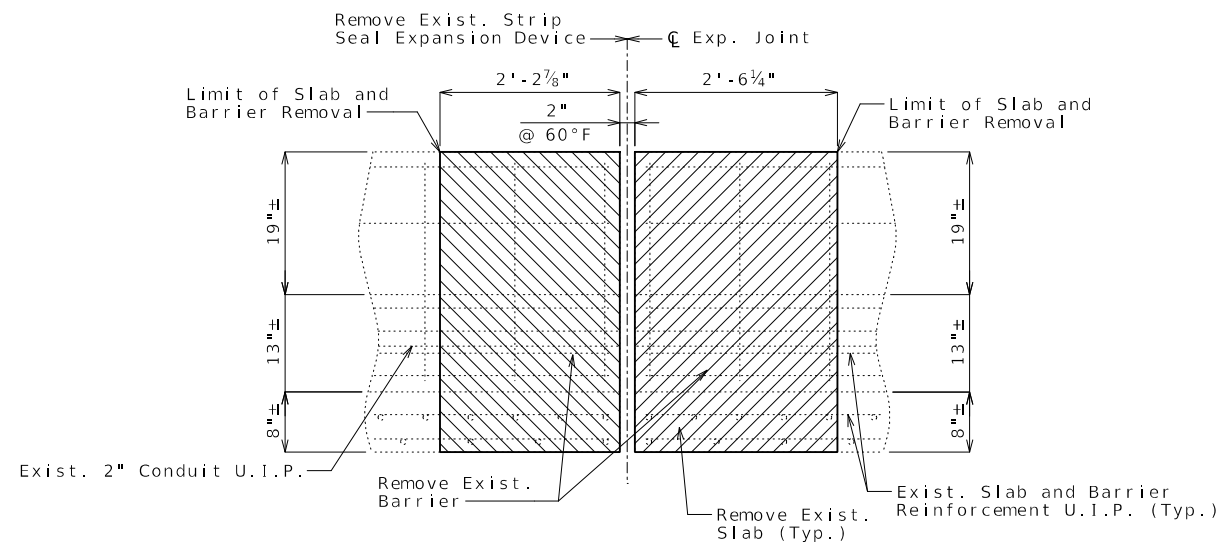
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PART PLAN OF SLAB AT
INTERMEDIATE BENTS NO. 2 & 4



SECTION A-A
(Interior girder/beam shown, exterior girder/beam similar)



PART ELEVATION OF BARRIER
REMOVAL AT INTERMEDIATE BENTS NO. 2 & 4

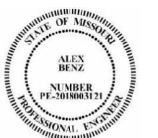
Note:
Remove existing stirrups within limits of Barrier Removal.

REMOVAL DETAILS AT INTERMEDIATE BENTS NO. 2 & 4

(Int. Bent No. 2 shown, Int. Bent No. 4 similar)

Note: This drawing is not to scale. Follow dimensions. Sheet No. 3 of 10

Detailed Mar. 2025
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05/23/2025 6:59:49 AM
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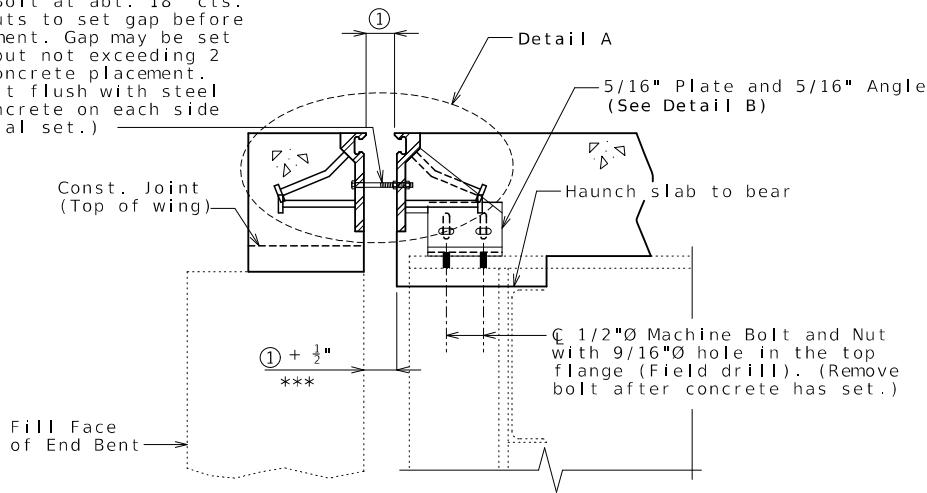
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5/23/2025
ROUTE 63 STATE MO
DISTRICT BR SHEET NO. 3
COUNTY MACON
JOB NO. JNE0137
CONTRACT ID.

BRIDGE NO.
A20432

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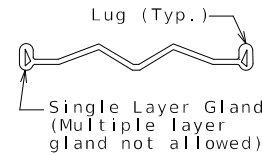
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1/2"Ø Machine Bolt at abt. 18" cts.
(Use two hex nuts to set gap before
concrete placement. Gap may be set
anytime up to but not exceeding 2
hours before concrete placement.
Cut machine bolt flush with steel
armor after concrete on each side
has taken initial set.)

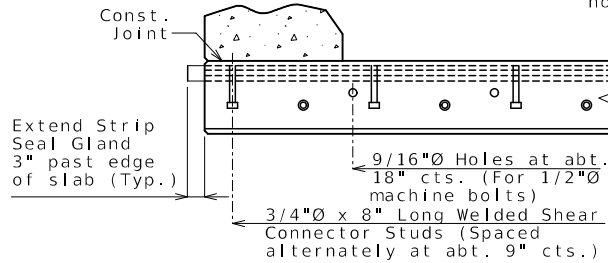
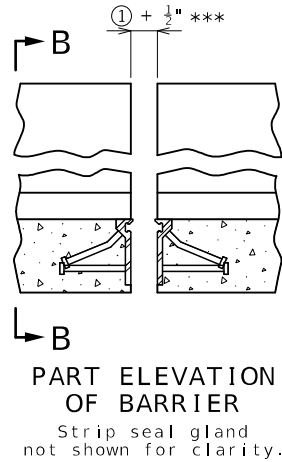


SECTION A-A

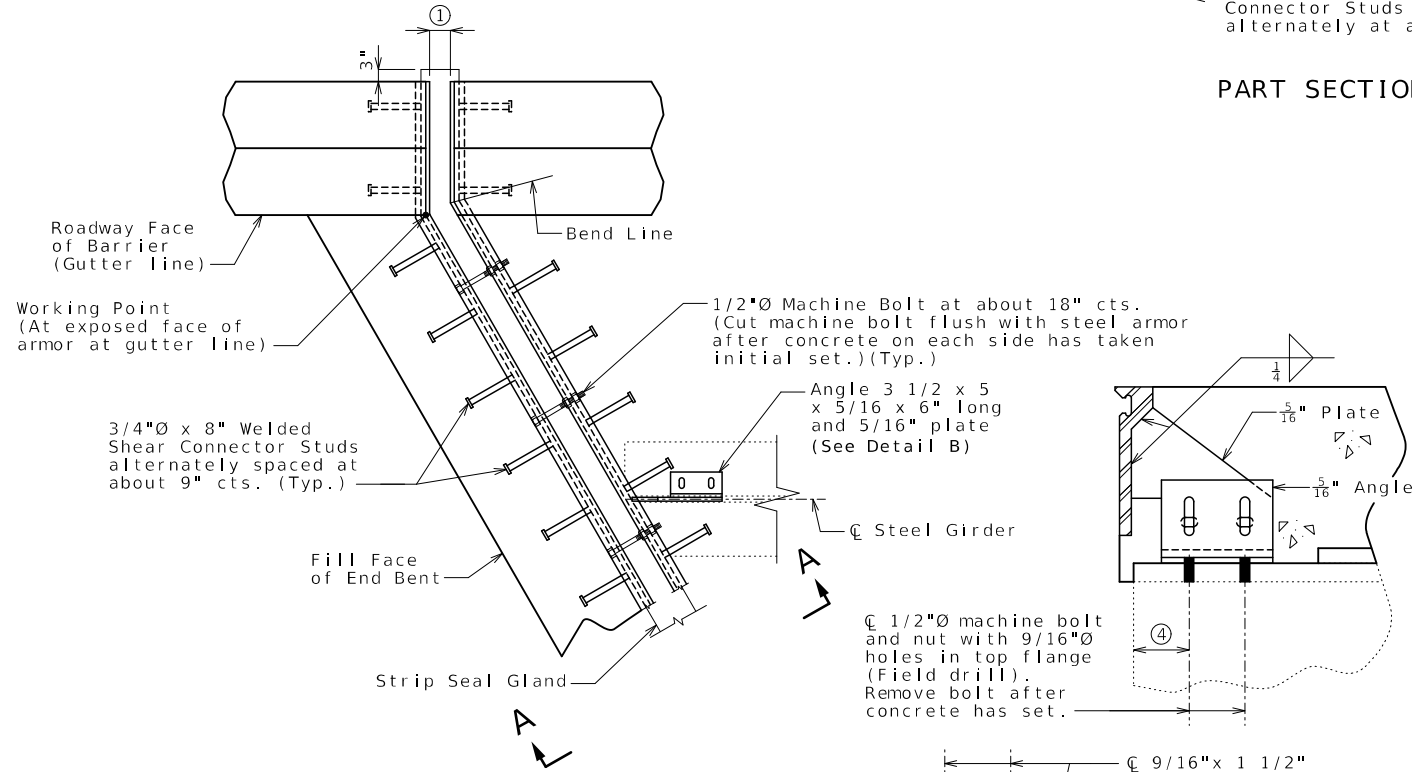
Strip seal gland not shown for clarity.



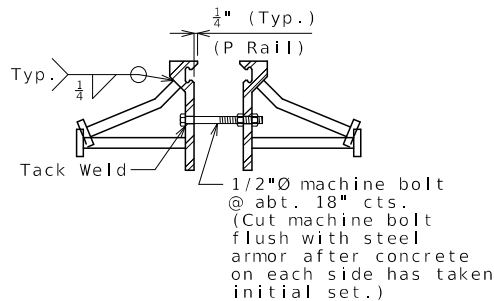
DETAIL OF GLAND



PART SECTION B-B

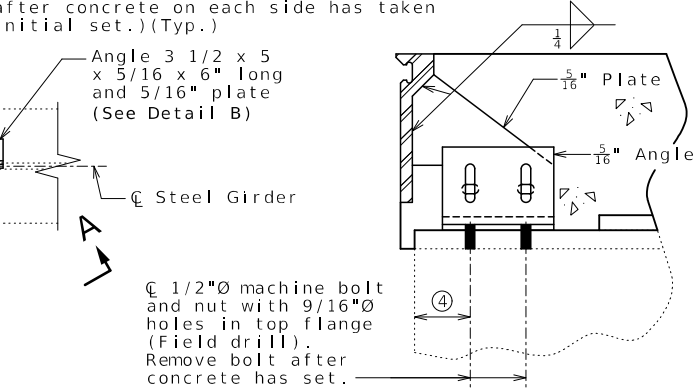


PART PLAN

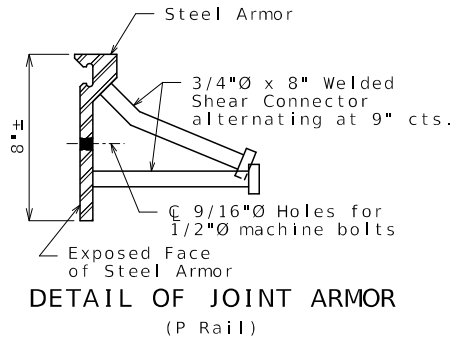


DETAIL A

(P Rail shown, R Rail similar)

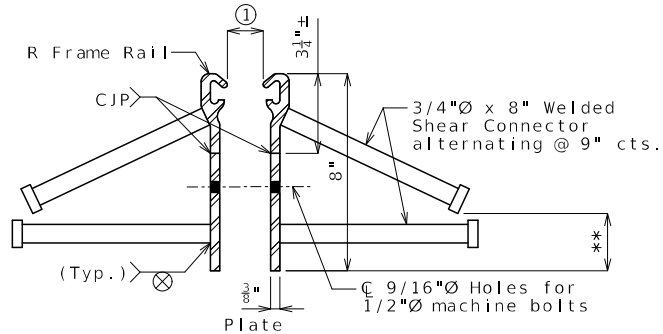


DETAIL B



DETAIL OF JOINT ARMOR (P Rail)

④ Field verify and reuse existing holes or adjust as needed and field drill



** Bend stud in shop if necessary to maintain 1" min. from bottom of vertical plate.

OPTIONAL R RAIL DETAIL

GENERAL NOTES:

Expansion joint system shall be fabricated in one section, except for staged construction and when the length is over 50 feet. A complete joint penetration groove welded splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion joint system shall be fabricated and installed to the crown and grade of the roadway.

The strip seal gland shall be installed in joints in one continuous piece without field splices. Factory splicing will be permitted for joints in excess of 53 feet.

Structural steel for the expansion joint system shall be ASTM A709 Grade 36 except the steel armor may be ASTM A709 Grade 50W. Anchors for the expansion joint system shall be in accordance with Sec 1037. Strip seal expansion joint system shall be in accordance with Sec 717.

Structural steel for the expansion joint system shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.

Longitudinal reinforcing steel shall be cut/bent so that ends shall be 1" from the vertical leg of the steel armor at the expansion joint system.

Concrete shall be forced under and around steel armor and anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.

② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

③ MoDOT Construction personnel will indicate the strip seal expansion joint system installed.

Steel armor may also be referred to as extrusion or rail.

The terms P and R rail are used for identification only, and are not endorsements for any particular manufacturer.

*** Because of variation in armor dimensions, the concrete opening will vary if the optional R rail is used. Dimensions shown are based on the P rail option.

Table of Allowed Transverse Strip Seal Expansion Joint System

Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	① Allowed Installation Gap Normal to Joint at RDWY Surface @ Air/Surface Temperature ②						③
			@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F	
D S Brown	Strip seal L2-400	2 1/2"	2 1/8"	2 1/8"	2"	2"	2"	2"	□
D S Brown	Strip seal L2-500	2 1/2"	2 1/8"	2 1/8"	2"	2"	2"	2"	□
Watson Bowman Acme (Wabo)	Strip seal SE-300	2 1/2"	2 1/8"	2 1/8"	2"	2"	2"	2"	□
Watson Bowman Acme (Wabo)	Strip seal SE-400	2 1/2"	2 1/8"	2 1/8"	2"	2"	2"	2"	□
Watson Bowman Acme (Wabo)	Strip seal SE-500	2 1/2"	2 1/8"	2 1/8"	2"	2"	2"	2"	□

STRIP SEAL EXPANSION JOINT SYSTEM AT END BENTS NO. 1 & 5

Detailed Mar. 2025
Checked Mar. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 10



Alex C. Benz
05/23/2025 6:59:39 AM
Alex Benz - Civil
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ROUTE 63 STATE MO
DISTRICT BR SHEET NO. 4
COUNTY MACON
JOB NO. JNE0137
CONTRACT ID.

BRIDGE NO.
A20432

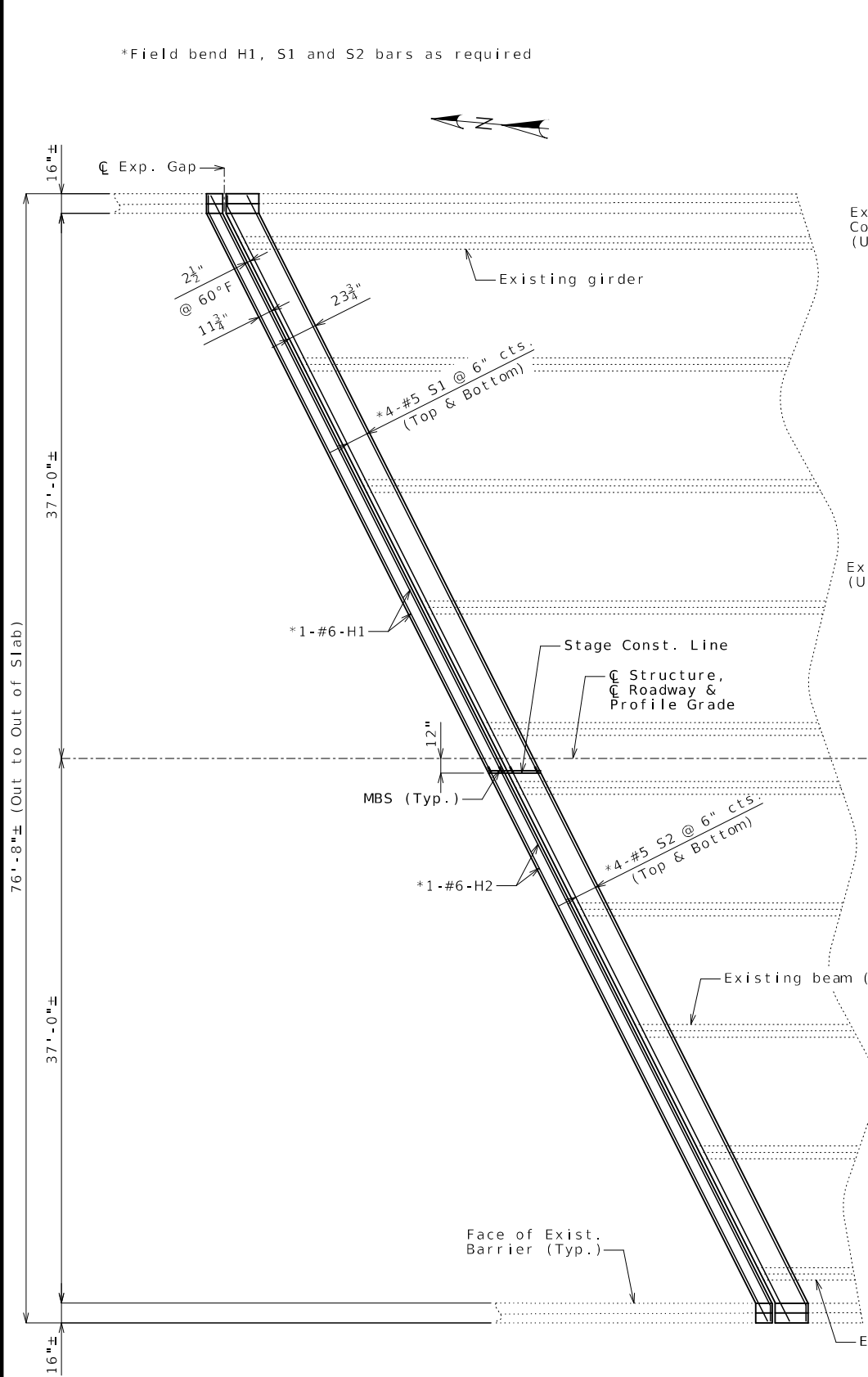
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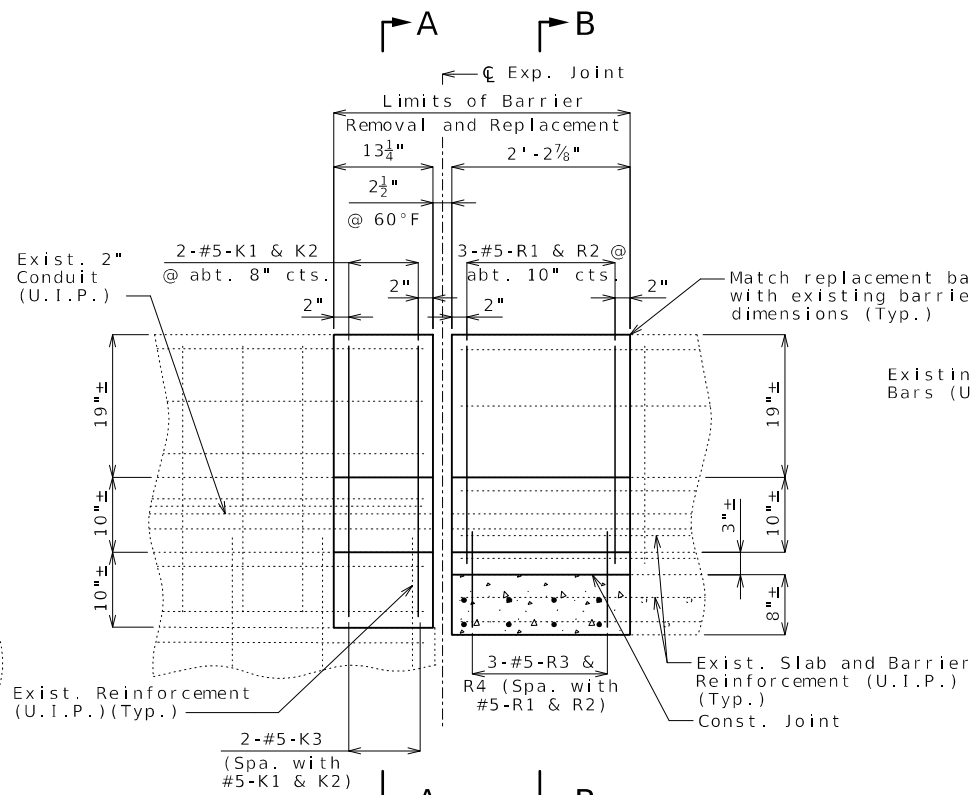
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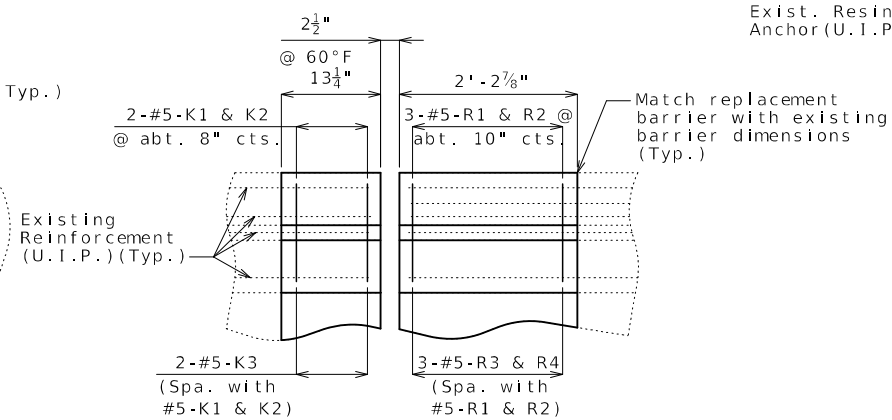
PART PLAN OF SLAB SHOWING
REINFORCEMENT AT END BENT NO. 1

End Bent No. 5 similar
Existing reinforcement not shown for clarity



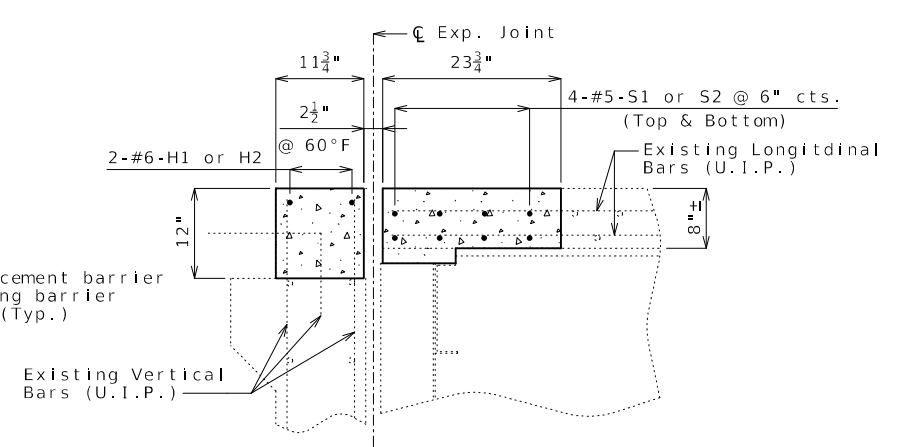
ELEVATION SHOWING BARRIER
REINFORCEMENT AT END BENT NO. 1

(End Bent No. 5 similar)



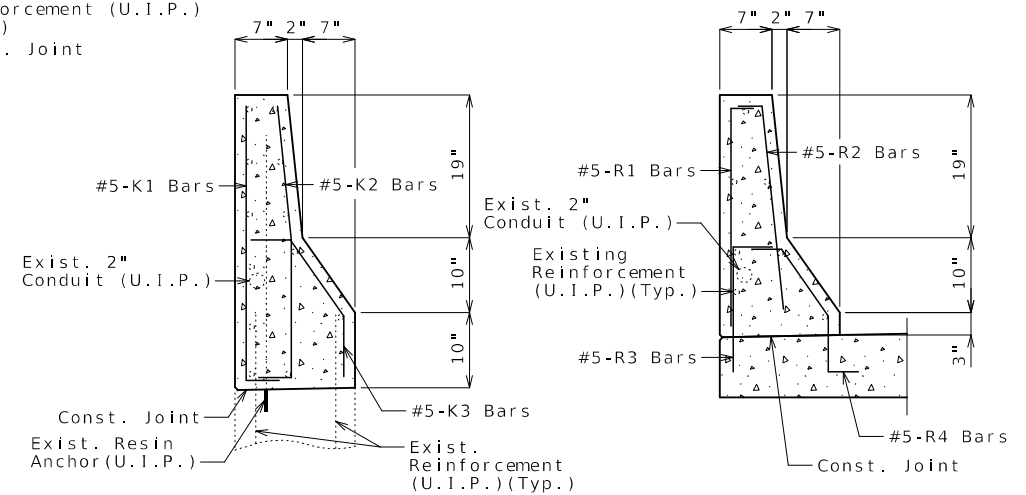
PART PLAN SHOWING BARRIER
REINFORCEMENT AT END BENT NO. 1

(End Bent No. 5 similar)



ELEVATION SHOWING SLAB
REINFORCEMENT AT END BENT NO. 1

(End Bent No. 5 similar)



SECTION A-A

SECTION B-B

Notes:

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710 except that no measurement will be made for mechanical bar splices and they will be considered completely covered by the contract unit price for other items.

Top of Barrier shall be built parallel to the grade with barrier joints normal to grade.

All exposed edges of Barrier shall have either a 1/2" radius or a 3/8" bevel, unless otherwise noted.

Payment for all concrete and reinforcement in Barrier, complete in place will be considered completely covered by the contract unit price for Remove and Replace Barrier.

Concrete in Barrier shall be Class B-1.

Concrete in Slab shall be Class B-2.

Measurement of Remove and Replace Barrier is to the nearest linear foot for each structure, measured along the outside of slab.

All exposed edges of new Barrier shall match existing barrier.

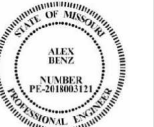
DETAILS OF STRIP SEAL REPLACEMENT CONCRETE AT END BENTS NO. 1 & 5

Detailed Mar. 2025
Checked Mar. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 10

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Alex C. Benz
05/23/2025 6:59:19 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED
5/23/2025

ROUTE 63 STATE MO

DISTRICT BR SHEET NO. 6

COUNTY
MACON

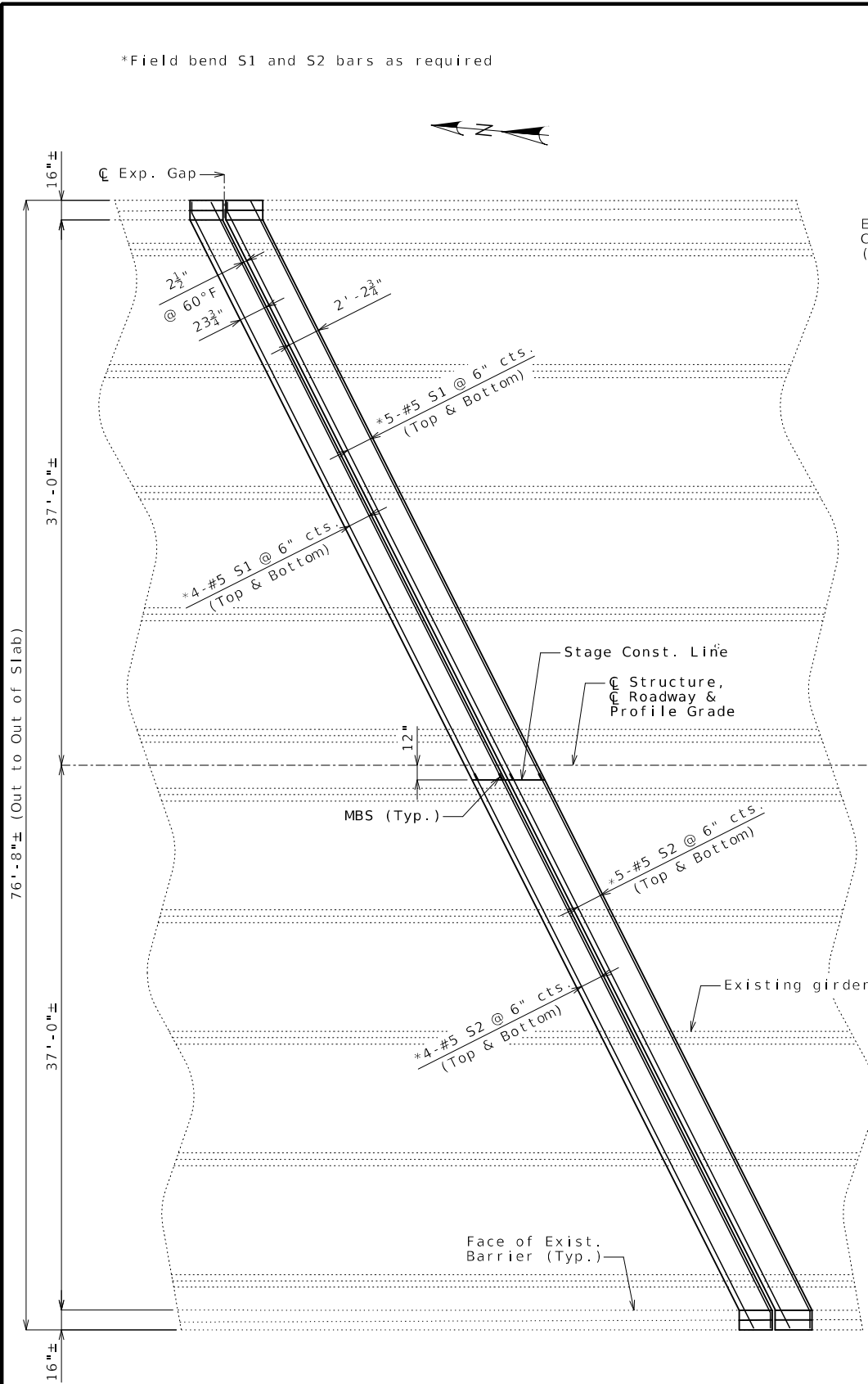
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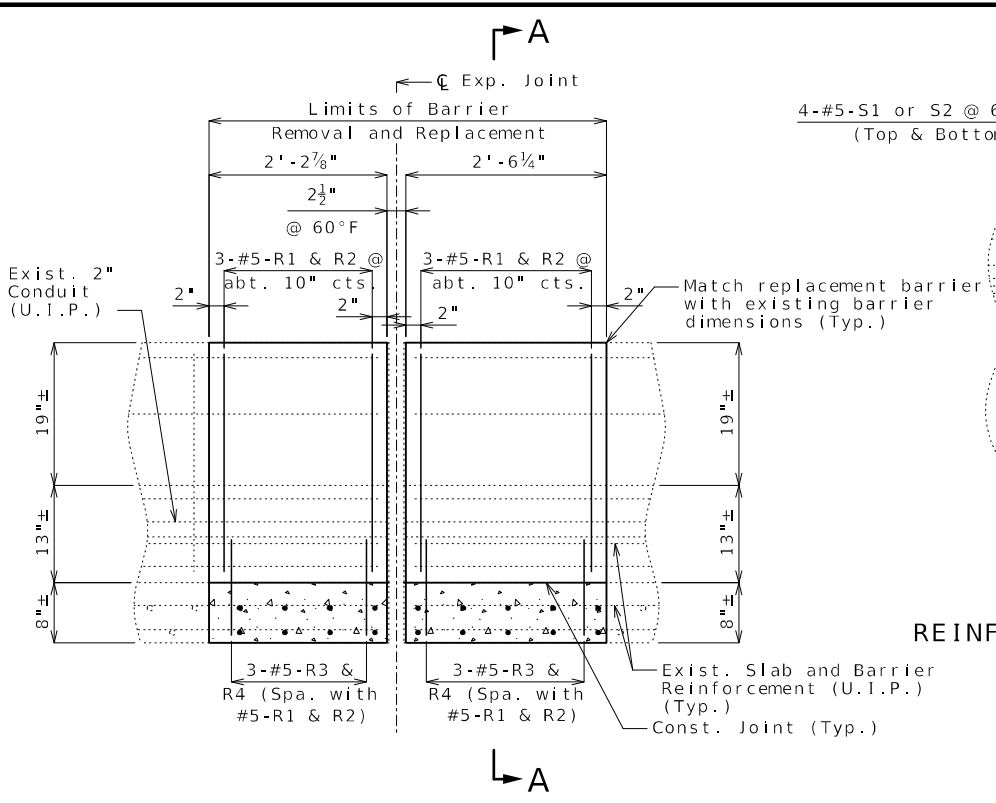
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St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

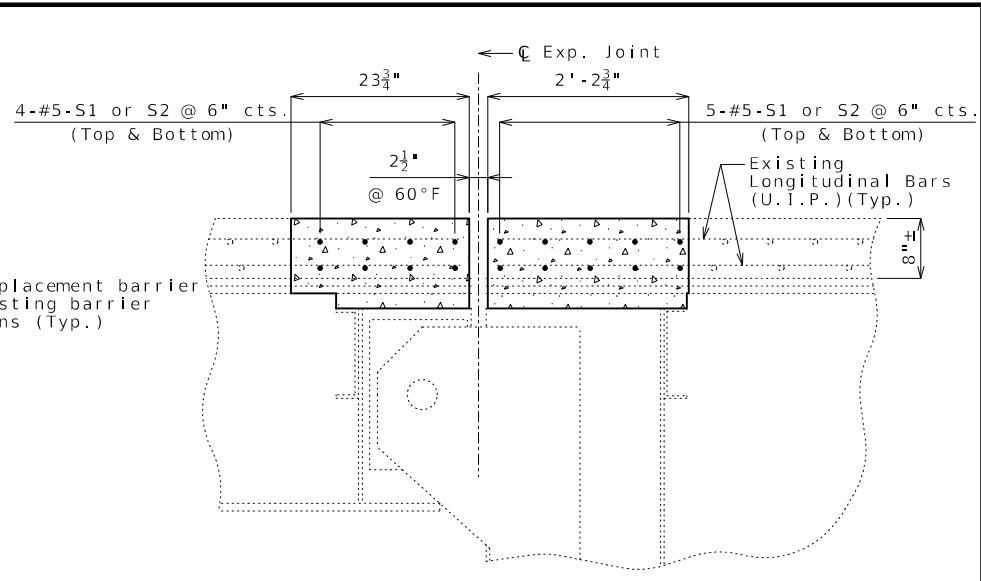


*Field bend S1 and S2 bars as required

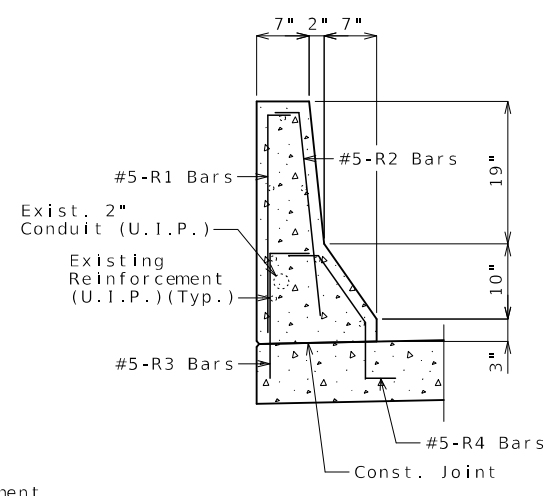
PART PLAN OF SLAB SHOWING REINFORCEMENT AT INTERMEDIATE BENT NO. 2
Intermediate Bent No. 4 similar
Existing reinforcement not shown for clarity



ELEVATION SHOWING BARRIER REINFORCEMENT AT INTERMEDIATE BENT NO. 2
(Intermediate Bent No. 4 similar)



ELEVATION SHOWING SLAB REINFORCEMENT AT INTERMEDIATE BENT NO. 2
(Intermediate Bent No. 4 similar)



SECTION A-A

Notes:

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710 except that no measurement will be made for mechanical bar splices and they will be considered completely covered by the contract unit price for other items.

Top of Barrier shall be built parallel to the grade with barrier joints normal to grade.

All exposed edges of Barrier shall have either a 1/2" radius or a 3/8" bevel, unless otherwise noted.

Payment for all concrete and reinforcement in Barrier, complete in place will be considered completely covered by the contract unit price for Remove and Replace Barrier.

Concrete in Barrier shall be Class B-1.

Concrete in Slab shall be Class B-2.

Measurement of Remove and Replace Barrier is to the nearest linear foot for each structure, measured along the outside of slab.

All exposed edges of new Barrier shall match existing barrier.

PART PLAN SHOWING BARRIER REINFORCEMENT AT INTERMEDIATE BENT NO. 2
(Intermediate Bent No. 4 similar)

DETAILS OF STRIP SEAL REPLACEMENT CONCRETE AT INTERMEDIATE BENTS NO. 2 & 4

Detailed Mar. 2025
Checked Mar. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 10

STATE OF MISSOURI

ALAN BENZ

REGISTERED PROFESSIONAL ENGINEER

05/23/2025 6:58:59 AM

Alex Benz - Civil

MO PE-2018003121

DATE PREPARED

5/23/2025

ROUTE

63

STATE

MO

DISTRICT

BR

SHEET NO.

7

COUNTY

MACON

JOB NO.

JNE0137

CONTRACT ID.

BRIDGE NO.

A20432

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

EFK Moen

Civil Engineering Design

13523 Barrett Parkway Dr

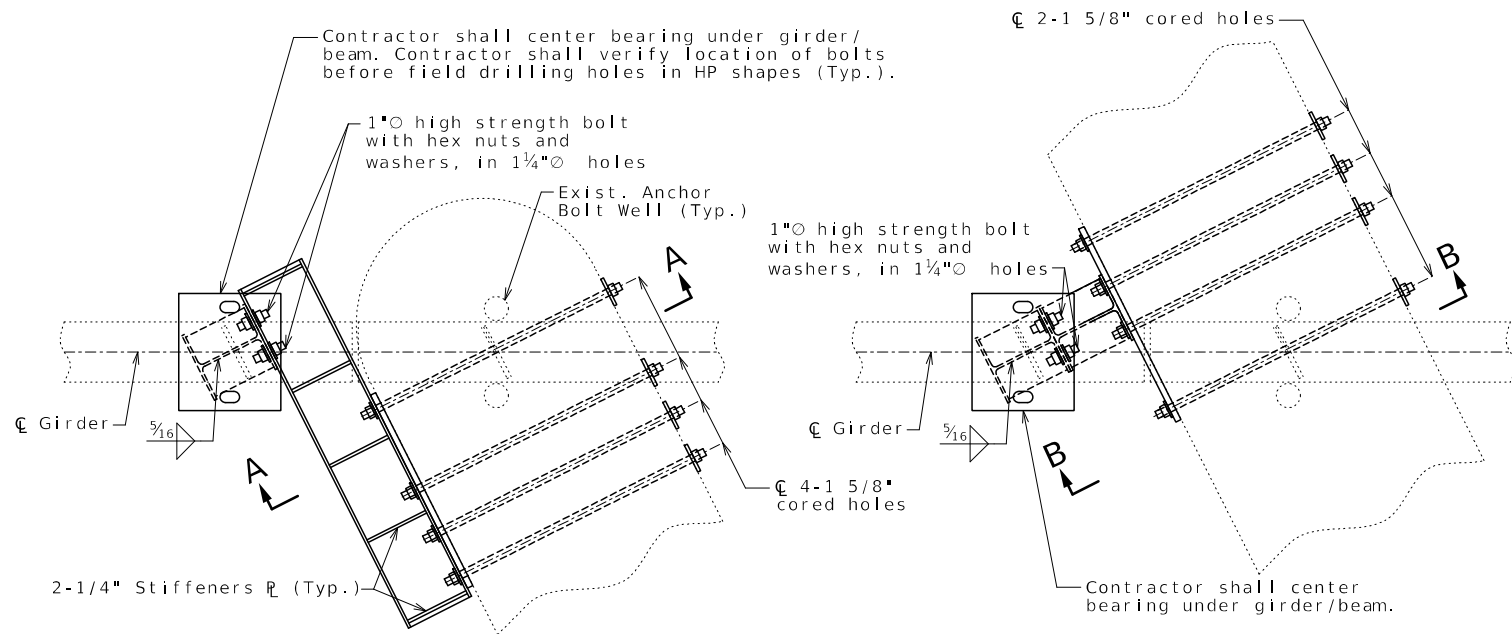
Suite 250

St. Louis, MO 63021

Phone 314-394-3100

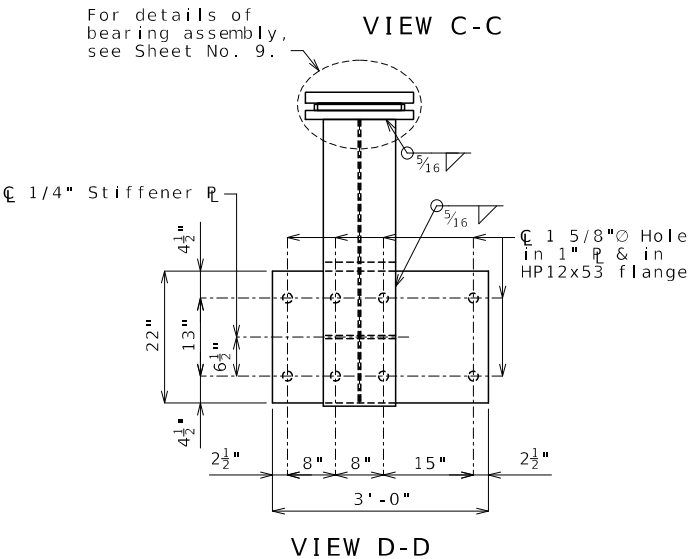
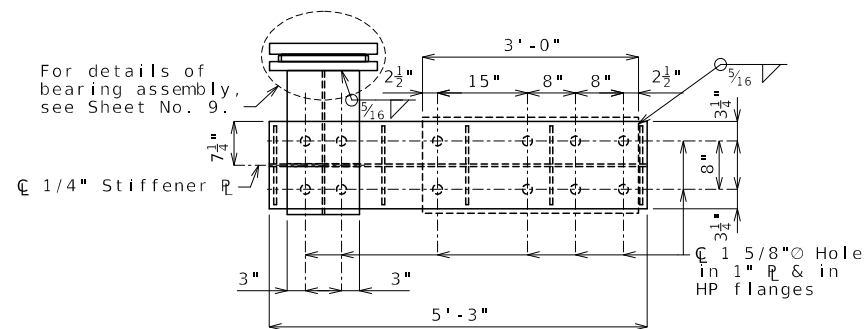
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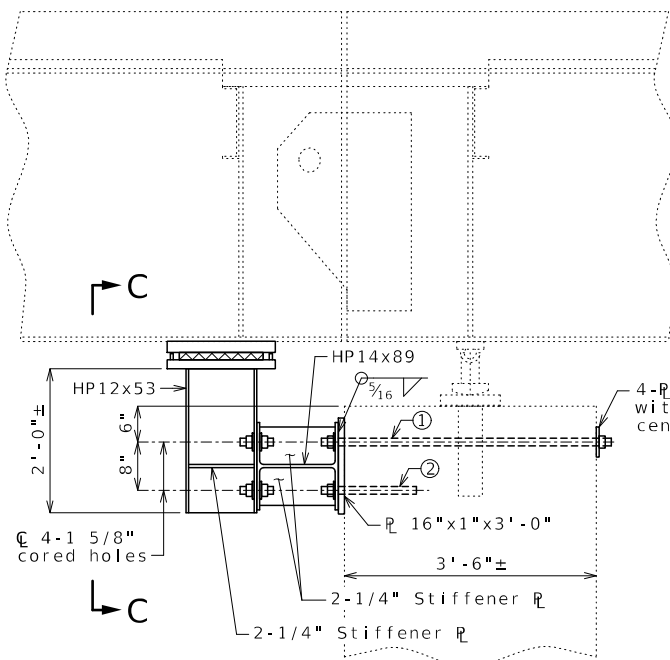
PARTIAL PLAN AT
GIRDER 1 AT
INT. BENT NO. 2
Girder 10 at Int. Bent No. 4 similar

PARTIAL PLAN
AT GIRDERS 2 THRU 10
AT INT. BENT NO. 2
Girder 1 thru 9 at Int. Bent No. 4 similar

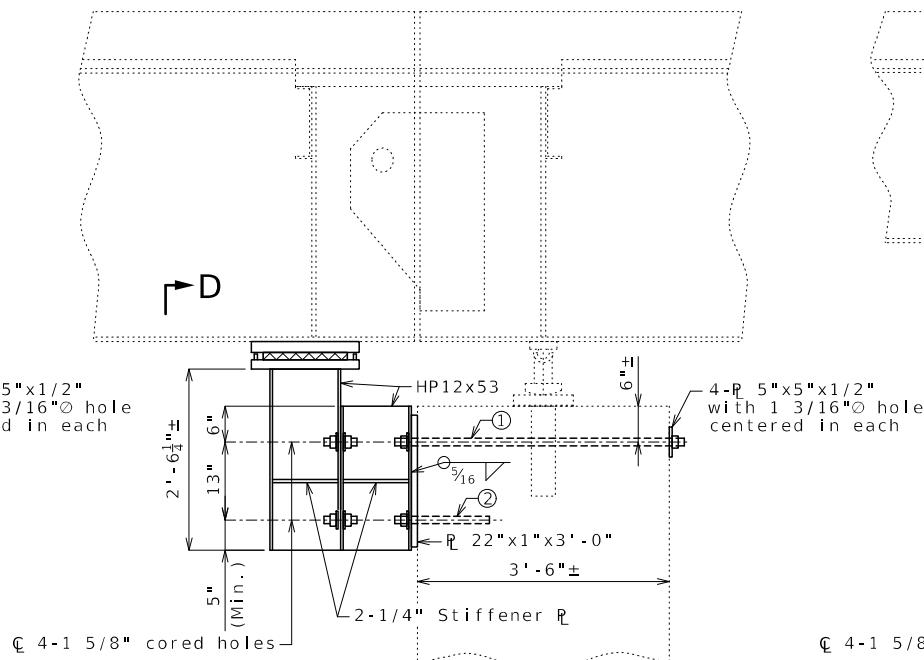


Notes:
All structural steel shall be fabricated from ASTM A709 Gr. 50 steel and in accordance with Sec 1080 and 1081.
Resin anchor system shall be in accordance with Sec 1039.
Girder Catch System shall be installed vertically, and within 1/16" (Typ.) to bottom of bridge girders.
All threaded rods, bolts, hardened washers, plate washers and nuts shall be galvanized in accordance with Sec 1080.
1 5/8" cored holes shall be completely filled with 4000 psi non-shrink grout or epoxy resin.
Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by contract unit price for Girder Catch System.
The minimum embedment depth in concrete for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength of 30,000 lbs. but shall not be less than 12".

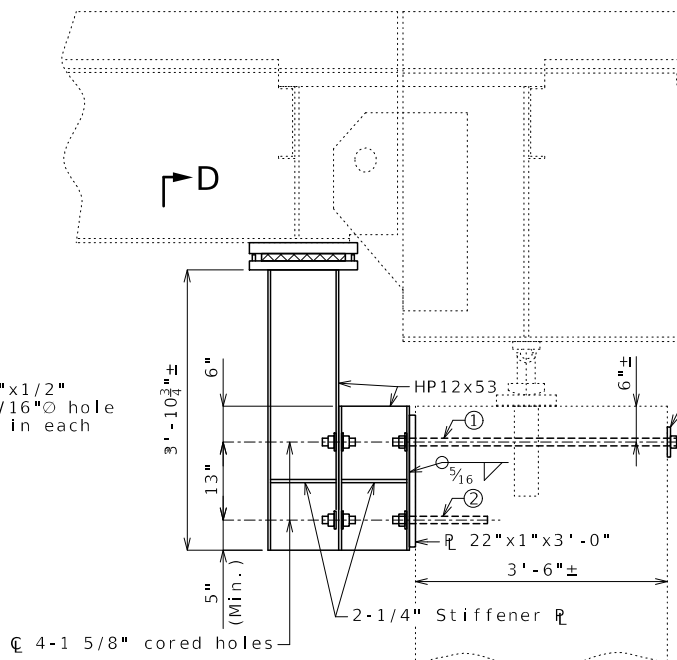
All structural steel, bolts, nuts, washers, laminated neoprene bearing pad assembly, plates, cross bracing and paint for the Girder Catch System, complete in place, shall be considered completely covered by the contract unit price for Girder Catch System per each.
Notch toughness is required for all HP shapes.
The contractor shall field locate and mark existing reinforcing steel in the intermediate bent cap using non destructive scanning methods prior to coring holes into concrete. The cored holes shall be located vertically to avoid all horizontal bars and shall be adjusted horizontally within 1" to best avoid vertical stirrups.



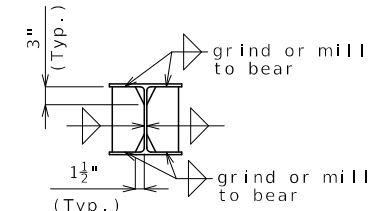
SECTION A-A
AT EXTERIOR GIRDER 1
AT INT. BENT NO. 2
Girder 10 at Int. Bent No. 4 similar



SECTION B-B
AT EXTERIOR GIRDER 10
AT INT. BENT NO. 2
Girder 1 at Int. Bent No. 4 similar



SECTION B-B
AT INTERIOR
GIRDERS



STIFFENER DETAIL

- ① 4 Cored holes 1 5/8" in beam cap (Typ.);
4 Threaded rods 1 1/8" ASTM F1554 Grade 105; Torqued to 700 lb-ft (30 kips)(each)
4 3"x3"x5/16" plate washer with 1 3/16" hole;
8 Hardened washers; 8 hex nuts; burr threads
- ② 4 Resin Anchor Systems include:
4 Cored holes 1 5/8" in beam cap (Typ.);
4 Threaded rods 1 1/8" ASTM F1554 Grade 105; with 12" embedment (Typ.) in beam cap;
4 3"x3"x5/16" plate washer with 1 3/16" hole;
8 Hardened washers; 8 hex nuts; burr threads

DETAILS OF GIRDER CATCH SYSTEM AT INT. BENTS NO. 2 & 4

Detailed Mar. 2025
Checked Mar. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 10



Alex C. Benz
05/23/2025 6:58:50 AM
Alex Benz - Civil
MO PE-2018003121

DATE PREPARED
5/23/2025

ROUTE 63 STATE MO

DISTRICT BR SHEET NO. 8

COUNTY MACON

JOB NO. JNE0137

CONTRACT ID.

BRIDGE NO. A20432

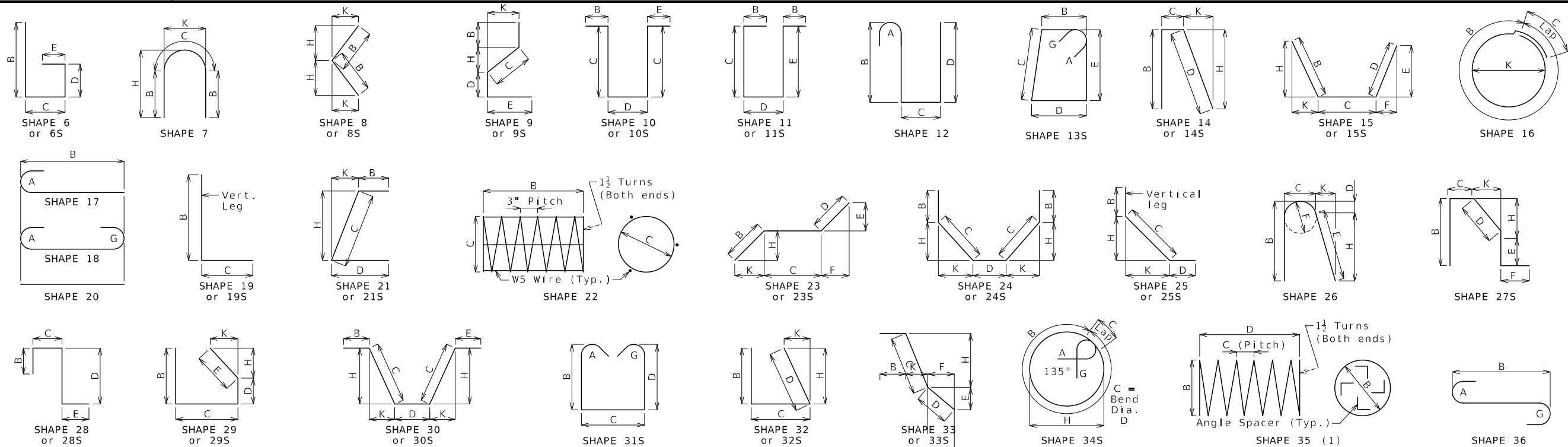
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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13523 Barrett Parkway Dr
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Finished Bend Shapes D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3 $\frac{3}{4}$ "	10"	7"	5"
#6	1	4 $\frac{1}{2}$ "	12"	8 $\frac{3}{4}$ "	6"
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "
#8	2	6"	16"	11"	8"
	3	8"	17"	13 $\frac{1}{4}$ "	10"
#9	1	9 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{3}{8}$ "
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{3}{8}$ "
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "

90°

180°

Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{7}{8}$ "	3"
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"	4"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	6 $\frac{1}{2}$ "	7"	3 $\frac{7}{8}$ "	5"
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	4 $\frac{5}{8}$ "	6"

90°

135°

180°

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.

[illegible]