

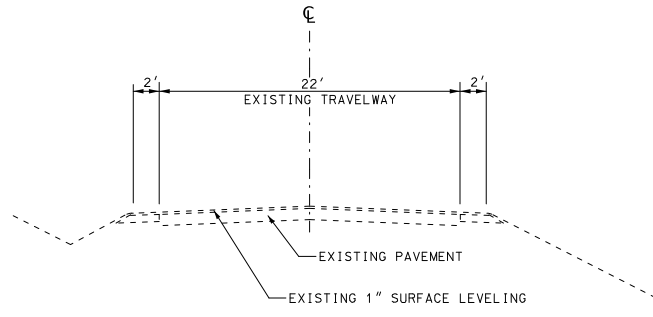
DATE PREPARED	
11/5/2024	
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

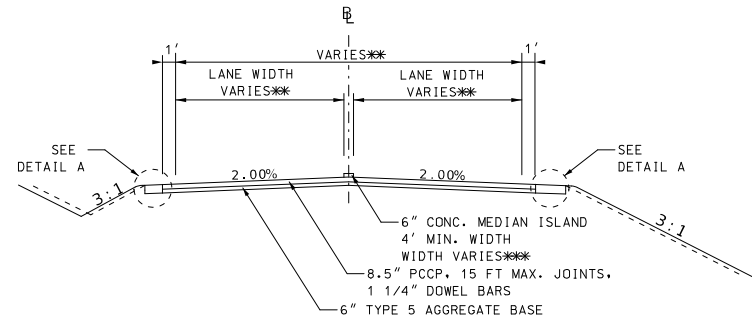
**MoDOT**

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



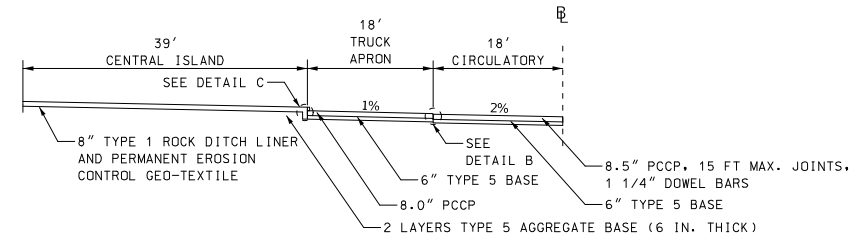
EXISTING ROUTE 87 TYPICAL SECTION  
ROUTE 87 STATION 524+80.00 - 532+38.69

EXISTING ROUTE C TYPICAL SECTION  
ROUTE C STATION 296+60.00 - 303+78.89

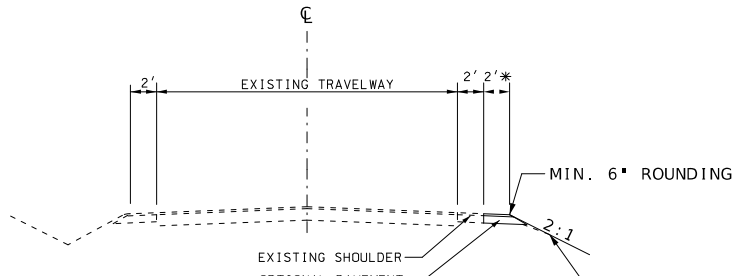


PROPOSED ROUTE 87 & ROUTE C CONSTRUCTION APPROACH TYPICAL SECTION

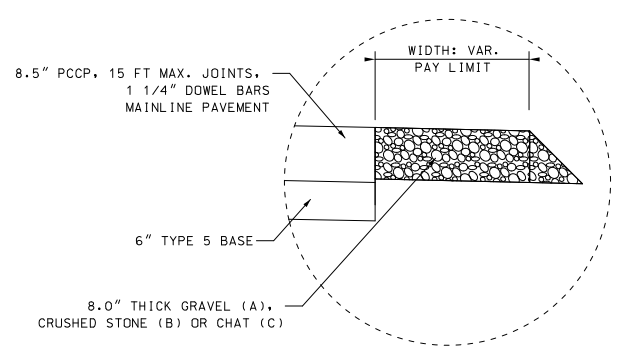
- ROUTE 87 NORTH APPROACH STATION 0+00.00 - 2+67.00 (ROUTE 87 CONST. @)
- ROUTE 87 SOUTH APPROACH STATION 4+18.00 - 7+20.00 (ROUTE 87 CONST. @)
- ROUTE C WEST APPROACH STATION 0+00.00 - 2+69.30 (ROUTE C CONST. @)
- ROUTE C EAST APPROACH STATION 4+21.52 - 7+20.00 (ROUTE C CONST. @)



PROPOSED ROUNDABOUT TYPICAL SECTION  
ROUNDABOUT CIRCULATORY @ STATION 0+00.00 - 4+71.24



- PROPOSED TRAFFIC CONTROL - PHASE 1 TYPICAL SECTION
- PHASE 1 STAGE 1:  
STATION 525+70.05 (ROUTE 87 CONST. @ - RT.)  
TO STATION 299+45.47 (ROUTE C CONST. @ LT.)
- PHASE 1 STAGE 2:  
STATION 297+55.44 (ROUTE C CONST. @ - RT.)  
TO STATION 531+61.97 (ROUTE 87 CONST. @ - RT.)
- PHASE 1 STAGE 3:  
STATION 300+49.36 (ROUTE C CONST. @ - LT.)  
TO STATION 303+78.94 (ROUTE C CONST. @ - LT.)
- \*STATION 300+49.36 - 301+08.95 (ROUTE C CONST. @): 4' WIDTH



AGGREGATE SHOULDER

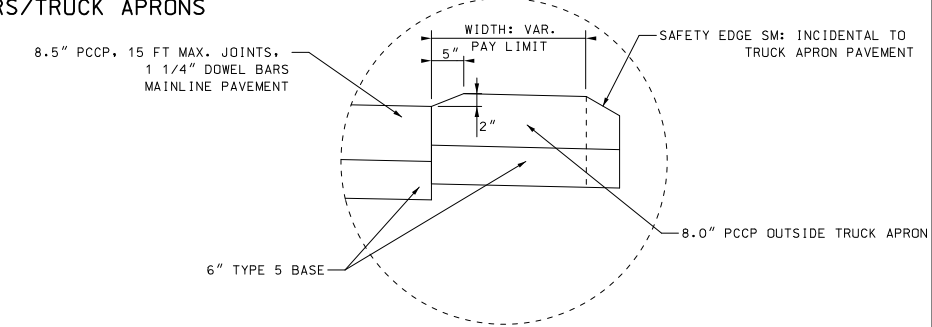
- ROUTE 87 NORTH APPROACH STATION 0+96.72 - 2+41.00 (ROUTE 87 CONST. @)
- ROUTE 87 NORTH APPROACH STATION 1+40.44 - 1+76.18 (ROUTE 87 CONST. @)
- ROUTE 87 SOUTH APPROACH STATION 4+52.39 - 6+39.06 (ROUTE 87 CONST. @)
- ROUTE C WEST APPROACH STATION 1+12.41 - 2+04.93 (ROUTE C CONST. @)
- ROUTE C EAST APPROACH STATION 5+01.58 - 6+52.21 (ROUTE C CONST. @)
- ROUTE C EAST APPROACH STATION 5+29.49 - 6+36.04 (ROUTE C CONST. @)

\*\* TOTAL WIDTH AND LANE WIDTH VARY BASED ON PAVEMENT MARKING AND APPROACH GEOMETRY THROUGHOUT THE LENGTH OF THE APPROACH

MINIMUM PAVED WIDTH: 14'  
MINIMUM OVERALL WIDTH: 16'  
(WITH TRUCK APRON OR AGG. SHLDR.)

- \*\*\* SPLITTER ISLANDS:
- ROUTE 87 NORTH APPROACH STATION 1+40.64 - 2+65.65 (ROUTE 87 CONST. @)
  - ROUTE 87 SOUTH APPROACH STATION 4+18.38 - 5+47.20 (ROUTE 87 CONST. @)
  - ROUTE C WEST APPROACH STATION 1+85.10 - 2+68.15 (ROUTE C CONST. @)
  - ROUTE C EAST APPROACH STATION 4+20.63 - 5+95.98 (ROUTE C CONST. @)

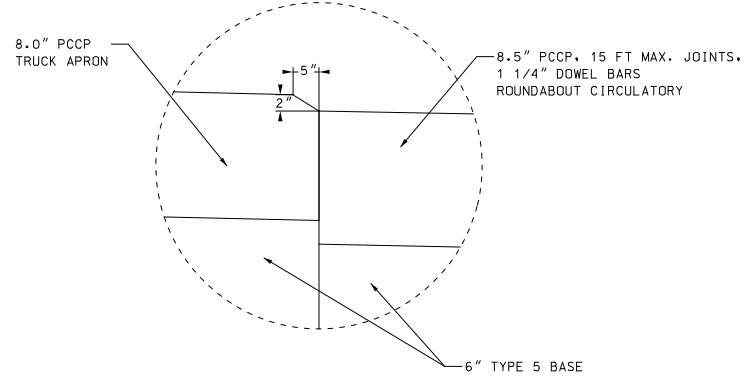
DETAIL A SHOULDERS/TRUCK APRONS



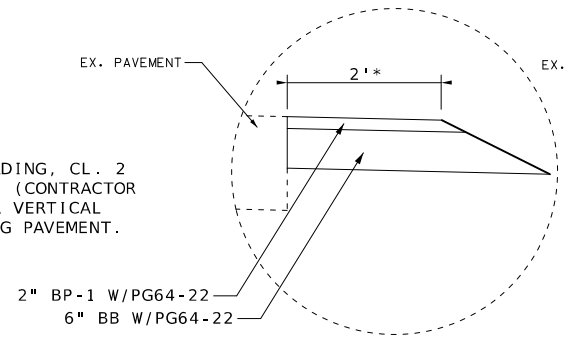
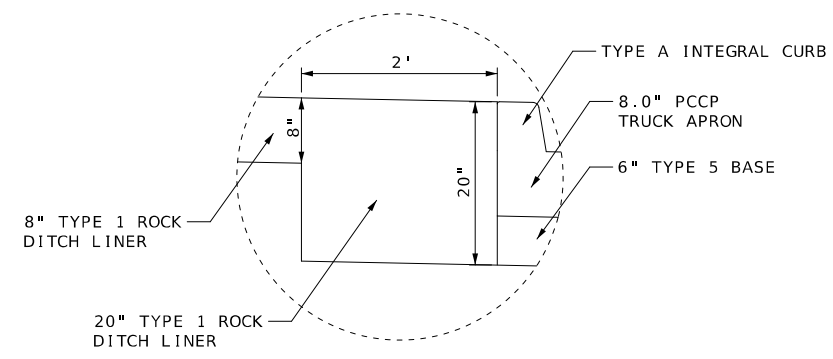
OUTSIDE TRUCK APRON

- ROUTE C EB TO ROUTE 87 SB STATION 1+62.87 (ROUTE C CONST. @) TO
- OUTSIDE TRUCK APRON STATION 4+52.39 (ROUTE 87 CONST. @)
- ROUTE 87 NB TO ROUTE C EB STATION 5+23.40 (ROUTE 87 CONST. @) TO
- OUTSIDE TRUCK APRON STATION 4+56.47 (ROUTE C CONST. @)
- ROUTE C WB TO ROUTE 87 NB STATION 5+01.58 (ROUTE C CONST. @) TO
- OUTSIDE TRUCK APRON STATION 1+76.18 (ROUTE 87 CONST. @)

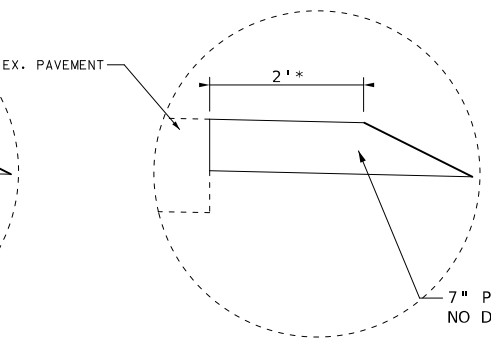
DETAIL B CIRCULATORY TRUCK APRON



DETAIL C ROCK DITCH LINER



OPTIONAL PAVEMENT (HMA OPTION)



OPTIONAL PAVEMENT (PCC OPTION)

EXISTING AND PROPOSED TYPICAL SECTIONS  
TYPICAL SHEET  
SHEET 1 OF 1

NOT TO SCALE

MOBILIZATION  
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING  
1 LUMP SUM

REMOVAL OF IMPROVEMENTS

SHEET	STA	TO	STA	LOCATION	ITEM	QUANTITY	REMARKS
SS 1	524+80.00		532+38.69	EX. ROUTE 87 CL.	FULL DEPTH PAVEMENT	4800 SY	ALL EXISTING PAVEMENT WITHIN PROJECT LIMITS
SS 1	296+60.00		303+78.89	EX. ROUTE C CL.	SAW CUT	26 LF	MAINLINE SAW CUT
SS 1	524+80.00			EX. ROUTE 87 CL.	SAW CUT	25 LF	MAINLINE SAW CUT
SS 1	532+38.69			EX. ROUTE 87 CL.	SAW CUT	24 LF	MAINLINE SAW CUT
SS 1	296+60.07			EX. ROUTE C CL.	SAW CUT	24 LF	MAINLINE SAW CUT
SS 1	303+78.89			EX. ROUTE C CL.	SAW CUT	24 LF	MAINLINE SAW CUT
SS 1	525+25.76			EX. ROUTE 87 CL. - RT.	12" CMP	61 LF	SQMO OWNER 3 LLC RTE. 87 ENTRANCE PIPE
SS 1	525+25.76			EX. ROUTE 87 CL. - RT.	FULL DEPTH PAVEMENT	132 SY	SQMO OWNER 3 LLC RTE. 87 ENTRANCE
SS 1	525+25.76			EX. ROUTE 87 CL. - RT.	SAW CUT	39 LF	SQMO OWNER 3 LLC RTE. 87 ENT. SAW CUT
SS 1	529+00.00			EX. ROUTE 87 CL.	18" CMP	47 LF	ROUTE 87 CROSS ROAD PIPE
SS 1	531+77.79			EX. ROUTE 87 CL. - RT.	12" CMP	29 LF	RAMER BROTHERS LLC RTE. 87 ENTRANCE PIPE
SS 1	531+77.79			EX. ROUTE 87 CL. - RT.	FULL DEPTH PAVEMENT	35 SY	RAMER BROTHERS LLC RTE. 87 ENTRANCE
SS 1	531+77.79			EX. ROUTE 87 CL. - RT.	SAW CUT	22 LF	RAMER BROTHERS LLC RTE. 87 ENT. SAW CUT
SS 1	297+36.10			EX. ROUTE C CL. - LT.	12" CMP	63 LF	SQMO OWNER 3 LLC RTE. C ENTRANCE PIPE
SS 1	297+36.10			EX. ROUTE C CL. - LT.	FULL DEPTH PAVEMENT	130 SY	SQMO OWNER 3 LLC RTE. C ENTRANCE
SS 1	297+36.10			EX. ROUTE C CL. - LT.	SAW CUT	40 LF	SQMO OWNER 3 LLC RTE. C ENT. SAW CUT
SS 1	297+41.90			EX. ROUTE C CL. - RT.	15" CMP	62 LF	RAMER BROTHERS LLC RTE. C ENTRANCE PIPE
SS 1	297+41.90			EX. ROUTE C CL. - RT.	FULL DEPTH PAVEMENT	91 SY	RAMER BROTHERS LLC RTE. C ENTRANCE
SS 1	297+41.90			EX. ROUTE C CL. - RT.	SAW CUT	26 LF	RAMER BROTHERS LLC RTE. C ENT. SAW CUT
SS 1	298+89.00			EX. ROUTE C CL. - LT.	PULL BOX	1 EA.	
SS 1	299+54.75			EX. ROUTE C CL. - LT.	SIGNAL POLE AND FOUNDATION	1 EA.	INCLUDING SIGNAL HEADS, SPAN WIRES, CONDUIT - SEE JSPs
SS 1	300+43.00			EX. ROUTE C CL. - RT.	SIGNAL POLE AND FOUNDATION	1 EA.	INCLUDING SIGNAL HEADS, SPAN WIRES, CONDUIT - SEE JSPs
SS 1	300+51.75			EX. ROUTE C CL. - RT.	PULL BOX	1 EA.	
SN 3	520+94.65			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CROSS ROAD
SN 3	523+69.54			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	40 MPH ADVISORY SPEED - CURVE LEFT
SN 3	524+54.37			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	526+03.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 1	526+27.50			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	527+19.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	527+28.00			EX. ROUTE 87 CL. - RT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	528+91.00			EX. ROUTE 87 CL. - LT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	529+43.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	530+15.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	531+32.50			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	531+76.00			EX. ROUTE 87 CL. - LT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 4	532+15.25			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 4	535+59.00			EX. ROUTE 87 CL. - LT.	1 SIGN AND 1 POST	1 EA.	CROSS ROAD
SN 4	536+89.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	40 MPH ADVISORY SPEED - CURVE RIGHT
SN 5	285+60.00			EX. ROUTE C CL. - RT.	1 SIGN AND 1 POST	1 EA.	STOP SIGN AHEAD
SN 5	295+79.00			EX. ROUTE C CL. - RT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 1	299+41.00			EX. ROUTE C CL. - RT.	1 SIGN	1 EA.	DO NOT ENTER
SN 1	299+47.00			EX. ROUTE C CL. - LT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	299+74.00			EX. ROUTE C CL. - RT.	2 SIGNS AND 1 POST	1 EA.	STOP AND CROSS TRAFFIC DOES NOT STOP
SN 1	300+72.50			EX. ROUTE C CL. - LT.	2 SIGNS AND 1 POST	1 EA.	STOP AND CROSS TRAFFIC DOES NOT STOP
SN 1	300+74.00			EX. ROUTE C CL. - RT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	301+92.00			EX. ROUTE C CL. - RT.	1 SIGN AND 1 POST	1 EA.	ADOPT-A-HIGHWAY SIGN
SN 1	304+10.00			EX. ROUTE C CL. - LT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 6	314+15.00			EX. ROUTE C CL. - LT.	1 SIGN AND 1 POST	1 EA.	STOP SIGN AHEAD
TC 13	300+49.39		303+78.94	ROUTE C EX. CL.	FULL DEPTH PAVEMENT	96 SY	TEMPORARY PAVEMENT FROM PHASE 1
TC 3	525+70.05		299+45.47	EX. ROUTE 87 CL. TO ROUTE C EX. CL.	FULL DEPTH PAVEMENT	58 SY	TEMPORARY PAVEMENT FROM PHASE 1
TC 4	294+55.44		531+63.97	EX. ROUTE C CL. TO ROUTE 87 EX. CL.	FULL DEPTH PAVEMENT	107 SY	TEMPORARY PAVEMENT FROM PHASE 1
				TOTAL		1 LUMP SUM	

RIGHT OF WAY MARKERS (NON CONTRACT)  
TO BE INSTALLED BY OTHERS



11/06/2024 9:30:11 AM  
GREGORY G. LEARY - CIVIL  
JAC-PE-2008A  
JAC-PE-2008A

11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 3

COUNTY MONITEAU

JOB NO. JCD0113

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

**GRADING**

PHASE	STATION TO	STATION	ALIGNMENT	CLASS A EXC.	CLASS 3 EXC.	COMPACTING EMBANKMENT*	EMBANKMENT IN PLACE	REMARKS
				CY	CY	CY	CY	
2	4+18.00	7+20.00	ROUTE 87 CONST. B.L. - LT.	53	-	46	108	OBTAIN 1146 CY
	3+94.30	0+29.63	ROUNDABOUT CIRCULATORY B.L. (STA 4+71.24 = STA 0+00.00)	2	-	2	466	FROM
	4+21.52	7+20.00	ROUTE C CONST. B.L. - RT.	34	-	29	572	OFF R/W
4	4+21.52	7+20.00	ROUTE C CONST. B.L. - LT.	60	-	51	497	OBTAIN 1267 CY
	0+29.64	1+50.71	ROUNDABOUT CIRCULATORY B.L.	0	-	0	508	FROM
	0+00.00	2+67.00	ROUTE 87 CONST. B.L. - LT.	71	-	61	262	OFF R/W
5	0+00.00	1+00.00	ROUTE 87 CONST. B.L. - RT.	19	-	17	0	PLACE 60 CY
	6+20.00	7+20.00	ROUTE 87 CONST. B.L. - RT.	50	-	43	0	ON PHASE 6
	1+00.00	2+67.00	ROUTE 87 CONST. B.L. - RT.	114	-	97	0	PLACE 80 CY IN CIRCULATORY
6	1+50.72	2+81.81	ROUNDABOUT CIRCULATORY B.L.	9	-	8	40	OBTAIN 40 CY FROM OFF R/W
	0+00.00	2+69.30	ROUTE C CONST. B.L. - LT.	136	-	116	0	PLACE 65 CY IN CIRCULATORY
	0+00.00	2+69.30	ROUTE C CONST. B.L. - RT.	207	-	176	0	PLACE 161 CY IN CIRCULATORY
7	2+81.82	3+94.29	ROUNDABOUT CIRCULATORY B.L.	16	-	14	0	DISPOSE 145 CY
	4+18.00	6+20.00	ROUTE 87 CONST. B.L. - RT.	235	-	200	0	OFF R/W
	2+35.94	-	ROUTE 87	-	37	-	-	18" CROSSROAD PIPE
	4+38.58	-	ROUTE 87	-	42	-	-	24" CROSSROAD PIPE
	6+39.21	6+85.28	RAMER BROTHERS LLC ROUTE 87 ENTRANCE	-	6.8	-	-	RT. 87 CONST. BL.
	0+34.20	1+09.71	SQMO OWNER 3 LLC ROUTE C ENTRANCE	-	10.9	-	-	RT. C CONST. BL.
	0+37.11	1+13.24	RAMER BROTHERS LLC ROUTE C ENTRANCE	-	5.8	-	-	RT. C CONST. BL.
<b>TOTAL</b>				<b>1006</b>	<b>103</b>	<b>860</b>	<b>2453</b>	<b>*15% SHRINKAGE FACTOR</b>

**CONCRETE PAVEMENT (8.5 IN. NON-REINFORCED, 15 FT. JOINTS) - MAINLINE**

SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
PP 1	0+00.00	2+67.00	NORTH APPROACH	267	VARIES	1165.3	ROUTE 87 CONST. BL.
PP 2	4+18.00	7+20.00	SOUTH APPROACH	302	VARIES	1185.4	ROUTE 87 CONST. BL.
PP 3	0+00.00	2+69.30	WEST APPROACH	269	VARIES	1053.5	ROUTE C CONST. BL.
PP 4	4+21.52	7+20.00	EAST APPROACH	298	VARIES	1212.0	ROUTE C CONST. BL.
PP 1	0+00.00	4+71.24	CIRCULATORY	471	VARIES	1093.5	ROUNDABOUT CIRCULATORY BL.
<b>TOTAL</b>				<b>1307</b>		<b>5709.7</b>	

**TRUCK APRON PAVEMENT**

SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
PP 1	0+00.00	4+71.24	ROUNDABOUT CIRCULATORY	VARIES	18	603.2	
<b>TOTAL</b>						<b>603.2</b>	

**CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS) - PAVED APPROACH & OUTSIDE TRUCK APRON**

SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
SS 11	525+25.76	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	146.8	SQMO OWNER 3 LLC ROUTE 87 ENTRANCE
SS 11	531+77.79	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	43.9	RAMER BROTHERS LLC ROUTE 87 ENTRANCE
SS 12	297+36.10	-	ROUTE C EX. CL. - LT.	VARIES	VARIES	149.2	SQMO OWNER 3 LLC ROUTE C ENTRANCE
SS 12	297+41.90	-	ROUTE C EX. CL. - RT.	VARIES	VARIES	119.5	RAMER BROTHERS LLC ROUTE C ENTRANCE
PP 1	-	-	RT. C WB TO RT. 87 NB	VARIES	VARIES	119.3	C WB TO 87 NB OUTSIDE TRUCK APRON
PP 1	-	-	RT. 87 NB TO RT. C EB	VARIES	VARIES	67.6	87 NB TO C EB OUTSIDE TRUCK APRON
PP 1	-	-	RT. C EB TO RT. 87 SB	VARIES	VARIES	74.4	C EB TO 87 SB OUTSIDE TRUCK APRON
<b>TOTAL</b>						<b>720.7</b>	

**GRAVEL (A), CRUSHED STONE (B), OR CHAT (C)**

SHEET NUMBER	STATION	STATION	LOCATION	AREA SY	DEPTH IN	QTY TON	REMARKS
PP 1	0+96.72	2+41.00	NORTH APPROACH	63	8.0	28	ROUTE 87 CONST. BL. - RT.
PP 1	1+40.44	1+76.18	NORTH APPROACH	7.6	8.0	4	ROUTE 87 CONST. BL. - LT.
PP 2	4+52.39	6+39.06	SOUTH APPROACH	58	8.0	26	ROUTE 87 CONST. BL. - LT.
PP 3	1+12.41	2+04.93	WEST APPROACH	20.2	8.0	9	ROUTE C CONST. BL. - RT.
PP 4	5+01.58	6+52.21	EAST APPROACH	46.7	8.0	21	ROUTE C CONST. BL. - LT.
PP 4	5+29.49	6+36.04	EAST APPROACH	23.4	8.0	10	ROUTE C CONST. BL. - RT.
<b>TOTAL</b>						<b>98</b>	<b>ESTIMATED AT 2 TONS/CY - MEASURED FROM TOP AREA</b>

**TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)**

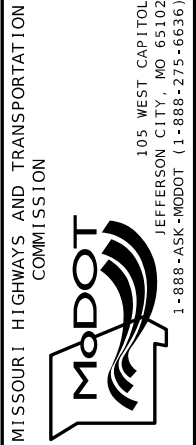
STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS	
0+00.00	2+67.00	MAINLINE - NORTH APPROACH	267	VARIES	1165.3	ROUTE 87 CONST. BL.	
4+18.00	7+20.00	MAINLINE - SOUTH APPROACH	302	VARIES	1185.4	ROUTE 87 CONST. BL.	
0+00.00	2+69.30	MAINLINE - WEST APPROACH	269	VARIES	1053.5	ROUTE C CONST. BL.	
4+21.52	7+20.00	MAINLINE - EAST APPROACH	298	VARIES	1212.0	ROUTE C CONST. BL.	
0+00.00	4+71.24	CIRCULATORY	471	18	1093.5		
-	-	TRUCK APRON - RT. C WB TO RT. 87 NB	VARIES	VARIES	119.3	OUTSIDE TRUCK APRON	
-	-	TRUCK APRON - RT. 87 NB TO RT. C EB	VARIES	VARIES	67.6	OUTSIDE TRUCK APRON	
-	-	TRUCK APRON - RT. C EB TO RT. 87 SB	VARIES	VARIES	74.4	OUTSIDE TRUCK APRON	
0+00.00	4+71.24	TRUCK APRON - CIRCULATORY	VARIES	18	603.2		
<b>TOTAL</b>						<b>6575</b>	

SUMMARY OF QUANTITIES  
SHEET 2 OF 7



11/05/2024 9:28:43 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED  
**11/5/2024**  
 ROUTE **87** STATE **MO**  
 DISTRICT **CD** SHEET NO. **3**  
 COUNTY **MONITEAU**  
 JOB NO. **JCD0113**  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION



TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)						
STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
525+25.76	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	146.8	SQMO OWNER 3 LLC ROUTE 87 ENTRANCE
531+77.79	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	43.9	RAMER BROTHERS LLC ROUTE 87 ENTRANCE
297+36.10	-	ROUTE C EX. CL. - LT.	VARIES	VARIES	149.2	SQMO OWNER 3 LLC ROUTE C ENTRANCE
297+41.90	-	ROUTE C EX. CL. - RT.	VARIES	VARIES	119.5	RAMER BROTHERS LLC ROUTE C ENTRANCE
			TOTAL		460	

6 IN. CONCRETE MEDIAN STRIP							
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
PP 1	1+40.64	2+65.62	NORTH APPROACH	125	VARIES	134.0	ROUTE 87 CONST. BL.
PP 2	4+18.42	5+47.20	SOUTH APPROACH	129	VARIES	158.0	ROUTE 87 CONST. BL.
PP 3	1+85.10	2+68.10	WEST APPROACH	83	VARIES	131.0	ROUTE C CONST. BL.
PP 4	4+20.67	5+95.98	EAST APPROACH	175	VARIES	179.0	ROUTE C CONST. BL.
			TOTAL			602.0	

6 IN. TYPE A INTEGRAL CURB					
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	REMARKS
PP 1	0+00.00	4+71.24	CENTRAL ISLAND	245	ROUNDBOUT CIRCULATORY BL.
			TOTAL	245	

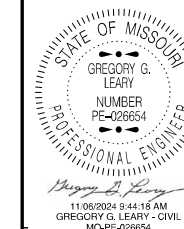
TYPE 1 ROCK DITCH LINER							
SHEET NUMBER	STATION	STATION	LOCATION	FURNISHING TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	PERMANENT EROSION CONTROL GEOTEXTILE SY	REMARKS
PP 1	0+00.00	4+71.24	CENTRAL ISLAND	118	118	531	ROUNDBOUT CIRCULATORY BL.
PP 1	0+00.00	4+71.24	CENTRAL ISLAND EDGE DRAIN	19	19	-	SEE TS SHEET 1 FOR DETAIL
			TOTAL	137	137	531	

TRANSVERSE RUMBLE			
SHEET NUMBER	STATION	LOCATION	QTY EA
SN 3	518+49.18	ROUTE 87	1
SN 3	522+49.16	ROUTE 87	1
SN 4	534+29.17	ROUTE 87	1
SN 4	538+29.17	ROUTE 87	1
		TOTAL	4

DRAINAGE											
SHEET NUMBER	STATION	LOCATION	12" GROUP B PIPE LF	12" GROUP B FES EA	15" GROUP B PIPE LF	15" GROUP B FES EA	18" GROUP B PIPE LF	18" GROUP B FES EA	24" GROUP B PIPE LF	24" GROUP B FES EA	REMARKS
CS 1	2+35.94	ROUTE 87	-	-	-	-	85	2	-	-	RT. 87 CONST. BL.
CS 1	4+38.58	ROUTE 87	-	-	-	-	-	-	86	2	RT. 87 CONST. BL.
SS 11	6+39.21	RAMER BROTHERS LLC ROUTE 87 ENTRANCE	43	2	-	-	-	-	-	-	RT. 87 CONST. BL.
SS 12	0+34.20	SQMO OWNER 3 LLC ROUTE C ENTRANCE	-	-	-	-	69	2	-	-	RT. C CONST. BL.
SS 12	0+37.11	RAMER BROTHERS LLC ROUTE C ENTRANCE	-	-	73	2	-	-	-	-	RT. C CONST. BL.
		TOTAL	43	2	73	2	154	4	86	2	

TEMPORARY SHOULDER WIDENING							
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT.	MODIFIED LINEAR GRADING, CL. 2 STA.	FULL DEPTH OPTIONAL PAVEMENT SY	REMARKS
TC 5	300+49.36	303+78.94	ROUTE C - LT.	335	3.4	96	ROUTE C EX. CL.
TC 3	525+70.05	299+45.47	ROUTE 87 - RT. TO ROUTE C LT.	260	2.6	58	ROUTE 87 EX. CL. TO ROUTE C. EX. CL.
TC 4	297+55.44	531+61.97	ROUTE C RT. TO ROUTE 87 RT.	481	4.8	107	ROUTE C EX. CL. TO ROUTE 87 EX. CL.
			TOTAL	10.8		261	

TEMPORARY TRAFFIC SIGNALS AND LIGHTING											
SHEET NUMBER	STATION	OFFSET	ALIGNMENT	SIGNAL				LIGHTING			REMARKS
				PORTABLE SIGNAL POLE EA	CONTROLLER EA	SIGNAL HEAD EA	TRAFFIC DETECTION EA	LUMINAIRE 150W (EQ.) EA	BRACKET ARM 6' EA		
TC 6	527+84.00	125.95 RT.	ROUTE 87 EX. C.L.	-	1	-	-	-	-	-	
TC 7	305+60.00	16.25 LT./16.00 RT.	ROUTE C EX. C.L.	2	-	2	1	2	2		EAST APPROACH
TC 8	532+67.00	15.50' LT./17.50' RT.	ROUTE 87 EX. C.L.	2	-	2	1	2	2		SOUTH APPROACH
TC 8	531+95.00	17.00' RT.	ROUTE 87 EX. C.L.	1	-	1	-	1	1		SOUTH APPROACH - ENTRANCE
TC 6	527+00.00	21.50' LT./15.25' RT.	ROUTE 87 EX. C.L.	2	-	2	1	2	2		NORTH APPROACH - PHASE 2 - 3
TC 9	523+00.00	16.25' LT./17.25' RT.	ROUTE 87 EX. C.L.	-	-	-	-	-	-		NORTH APPROACH - PHASE 4 - 7 (RELOCATED)
TC 9	524+85.00	15.50' RT.	ROUTE 87 EX. C.L.	1	-	1	-	1	1		NORTH APPROACH - ENTRANCE
TC 6	298+40.00	17.25' LT./15.50' RT.	ROUTE C EX. C.L.	2	-	2	1	2	2		WEST APPROACH - PHASE 2 - 5
TC 10	295+80.00	15.25' LT./15.75' RT.	ROUTE C EX. C.L.	-	-	-	-	-	-		WEST APPROACH - PHASE 6 - 7 (RELOCATED)
TC 6	297+60.00	15.40' RT.	ROUTE C EX. C.L.	1	-	1	1	1	1		WEST APPROACH - ENTRANCE
TC 6	297+70.00	16.50' LT.	ROUTE C EX. C.L.	-	-	-	-	-	-		WEST APPROACH - ENTRANCE (RELOCATED FROM 297+60.00/15.40' RT.)
			TOTAL	11	1	11	5	11	11		
			USE				1 LUMP SUM				



11/05/2024 9:44:18 AM  
GREGORY G. LEARY - CIVIL  
MOPE-09864  
DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 3  
COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.

DESCRIPTION

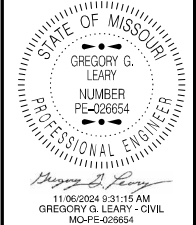
DATE	DESCRIPTION



TEMPORARY EROSION CONTROL				
STATION	LOCATION	ALTERNATE DITCH CHECK LF	SEDIMENT REMOVAL CY	REMARKS
0+08.36	RTE C CONST BL - LT	8	0.2	NW QUADRANT
1+25.78	RTE C CONST BL - LT	8	0.2	NW QUADRANT
2+39.94	RTE C CONST BL - LT	8	0.2	NW QUADRANT
2+40.53	RTE 87 CONST BL - RT	8	0.2	NW QUADRANT
2+31.39	RTE 87 CONST BL - RT	8	0.2	NW QUADRANT
0+00.00	RTE 87 CONST BL - RT	8	0.2	NW QUADRANT
0+00.55	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
0+26.37	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
0+56.30	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
0+88.03	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
1+19.90	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
1+46.71	RTE 87 CONST BL - LT	12	0.3	NE QUADRANT
1+73.10	RTE 87 CONST BL - LT	12	0.3	NE QUADRANT
2+39.13	RTE 87 CONST BL - LT	12	0.3	NE QUADRANT
5+05.57	RTE C CONST BL - LT	8	0.2	NE QUADRANT
5+29.33	RTE C CONST BL - LT	8	0.2	NE QUADRANT
5+53.19	RTE C CONST BL - LT	8	0.2	NE QUADRANT
6+48.04	RTE C CONST BL - LT	8	0.2	NE QUADRANT
7+22.96	RTE C CONST BL - LT	8	0.2	NE QUADRANT
0+22.69	RTE C CONST BL - RT	8	0.2	SW QUADRANT
1+67.75	RTE C CONST BL - RT	8	0.2	SW QUADRANT
2+45.78	RTE C CONST BL - RT	8	0.2	SW QUADRANT
4+32.24	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
4+40.65	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
5+76.41	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
6+92.36	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
6+70.08	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
6+33.09	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
5+94.43	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
5+56.81	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
5+20.06	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
4+75.89	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
4+41.34	RTE 87 CONST BL - LT	12	0.3	SE QUADRANT
4+19.60	RTE C CONST BL - RT	12	0.3	SE QUADRANT
4+50.02	RTE C CONST BL - RT	12	0.3	SE QUADRANT
4+81.67	RTE C CONST BL - RT	12	0.3	SE QUADRANT
5+14.52	RTE C CONST BL - RT	8	0.2	SE QUADRANT
5+52.95	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+04.28	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+29.34	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+54.22	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+79.32	RTE C CONST BL - RT	8	0.2	SE QUADRANT
7+04.40	RTE C CONST BL - RT	8	0.2	SE QUADRANT
7+29.34	RTE C CONST BL - RT	8	0.2	SE QUADRANT
	TOTAL	380	10	
	USE	380	10	

ADDITIONAL MOBILIZATION FOR SEEDING	
4 EA	

SEEDING AND MULCHING					
STATION	TO	STATION	LOCATION	QTY AC	REMARKS
0+00.00		7+20.00	ROUTE 87 CONST. B.L. - LT. TO ROUTE C CONST. B.L. - LT.	0.18	NE DITCH
7+20.00		7+20.00	ROUTE 87 CONST. B.L. - LT. TO ROUTE C CONST. B.L. - RT.	0.18	SE DITCH
0+00.00		7+20.00	ROUTE C CONST. B.L. - RT. TO ROUTE 87 CONST. B.L. - RT.	0.17	SW DITCH
0+00.00		0+00.00	ROUTE C CONST. B.L. - LT. TO ROUTE 87 CONST. B.L. - RT.	0.16	NW DITCH
			TOTAL	0.69	
			USE	1 LUMP SUM	



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 3

COUNTY MONITEAU

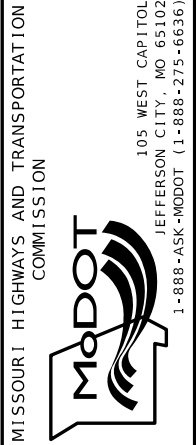
JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

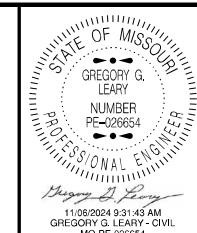
DESCRIPTION	DATE



LIGHTING - CONDUIT AND CABLE											
STATION FROM	TO	SYSTEM/ CIRCUIT	CENTER TO CENTER DISTANCE (FT.)	2" RIGID CONDUIT TRENCHED (FT.)	3" RIGID CONDUIT TRENCHED (FT.)	3" RIGID CONDUIT PUSHED (FT.)	1" CABLE CONDUIT 2c-#8 AWG (FT.)	TRENCHING TYPE I (FT.)	POLE & BRACKET CABLE 1c-#10 AWG (FT.)	POWER CABLE 1c-#2 AWG (FT.)	REMARKS
POWER SUPPLY	CONTROLLER		8	16						72	3 RUNS OF 24' #2 AWG CABLE
CONTROLLER	P.B.1	A	51		54		62				
P.B.1	A1	A	63				75	61	72		INCLUDES A1 POLE AND BRACKET ARM CABLE
A1	A2	A	129				146	127	72		INCLUDES A2 POLE AND BRACKET ARM CABLE
A2	P.B.2	A	48			46	56				
P.B.2	A3	A	143				159	141	72		INCLUDES A3 POLE AND BRACKET ARM CABLE
A3	A4	A	179				199	177	72		INCLUDES A4 POLE AND BRACKET ARM CABLE
CONTROLLER	P.B.1	B	51				62				CONDUIT INCLUDED IN CIRCUIT A
P.B.1	P.B.3	B	118				131	116			
P.B.3	B1	B	44			42	52		72		INCLUDED B1 POLE AND BRACKET ARM CABLE
B1	B2	B	341				369	339	72		INCLUDED B2 POLE AND BRACKET ARM CABLE
B2	P.B.4	B	37			35	45				
P.B.4	B3	B	177				195	175	72		INCLUDES B3 POLE AND BRACKET ARM CABLE
			TOTAL	16	54	123	1551	1136	504	72	
			USE	16	54	123	1560	1136	510	80	

POWER SUPPLY ASSEMBLIES, TYPE 2 240/120 VOLT SERVICE, LIGHTING ONLY										
CONTROLLER NUMBER	APPROACH	STATION	OFFSET	DRAWING 901.80 TYPE 2	CIRCUIT BREAKER TRIP RATING				POWER SUPPLY DISCONNECT MAIN BREAKER	
					LIGHTING CONTROLLER				SIGNALS	LIGHTING
					CIRCUIT 1	CIRCUIT 2	CIRCUIT 3	CIRCUIT 4		
1	RTE. 87 BL.	3+06.66	139.94' RT	1	15 Amps	15 Amps				100 Amps
		TOTAL		1						

LIGHTING EQUIPMENT											
POLE NO.	PULL BOX NO.	STATION	OFFSET FT.	LOCATION	240V - 4 CIRC. BASE MOUNTED CONT. STATION EA.	POLE FOUNDATION 30' MOUNT HT. EA.	POLE 30' TYPE AT EA.	6' BRACKET ARM EA.	LUMINAIRE LED - A EA.	PULL BOX PREFORMED CLASS 1 EA.	REMARKS
		3+08.01	132.81' RT	ROUTE 87	1						
A1		2+67.00	40.08' RT	ROUTE 87		1	1	1	1		
A2		1+41.00	22.65' RT	ROUTE 87		1	1	1	1		
A3		4+31.00	45.39' LT	ROUTE C		1	1	1	1		
A4		6+04.00	21.36' LT	ROUTE C		1	1	1	1		
B1		1+63.00	22.54' RT	ROUTE C		1	1	1	1		
B2		6+00.00	18.85' RT	ROUTE 87		1	1	1	1		
B3		4+21.00	43.37' LT	ROUTE 87		1	1	1	1		
	1	3+12.88	82.13' RT	ROUTE 87						1	
	2	1+42.00	23.91' LT	ROUTE 87						1	
	3	1+66.07	20.27' LT	ROUTE C						1	
	4	6+00.00	18.25' LT	ROUTE 87						1	
				TOTAL	1	7	7	7	7	4	
				USE	1	7	7	7	7	4	



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 3

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

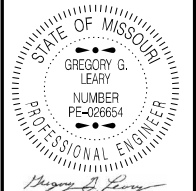
PAVEMENT MARKING

STATION	TO STATION	LOCATION	WATERBORNE PVM'T MARKING PAINT, TYPE P BEADS			PREFORMED THERMOPLASTIC PVM'T MARKING			24" WHITE REMOVABLE PAVEMENT MARKING TAPE LF	REMARKS
			4" SOLID WHITE LF	4" DOTTED WHITE LF	4" SOLID YELLOW LF	24" SOLID WHITE LF	24" SOLID YELLOW LF	12" WHITE YIELD LINE TRIANGLES EACH		
0+00.00	0+51.40	PROP CL RTE 87			102				DOUBLE YELLOW CENTERLINE	
0+51.40	2+72.00	PROP CL RTE 87 - LT			224		16		SPLITTER ISLAND CENTERLINE	
0+51.40	2+68.67	PROP CL RTE 87 - RT			221				SPLITTER ISLAND CENTERLINE	
0+00.00	2+78.34	PROP CL RTE 87 - LT	280						EDGE LINE	
0+00.00	2+89.89	PROP CL RTE 87 - RT	304						EDGE LINE	
2+62.00		PROP CL RTE 87 - RT						10		
2+68.67	2+72.00	PROP CL RTE 87	43						ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND	
2+68.67	2+89.89	PROP CL RTE 87 - RT		16						
2+84.09	4+00.09	PROP CL RTE 87			365				ROUNDAABOUT INSIDE EDGLINE	
4+04.11	4+15.30	PROP CL RTE 87 - LT		10						
4+10.71	4+15.30	PROP CL RTE 87	48						ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND	
4+22.67		PROP CL RTE 87 - LT						10		
4+04.11	7+20.00	PROP CL RTE 87 - LT	320			42			EDGE LINE	
3+87.22	7+20.00	PROP CL RTE 87 - RT	348						EDGE LINE	
4+15.30	6+28.79	PROP CL RTE 87 - LT			215		23		SPLITTER ISLAND CENTERLINE	
4+10.71	6+28.79	PROP CL RTE 87 - RT			224				SPLITTER ISLAND CENTERLINE	
6+28.79	7+20.00	PROP CL RTE 87			182				DOUBLE YELLOW CENTERLINE	
0+00.00	0+71.16	PROP CL RTE C			142				DOUBLE YELLOW CENTERLINE	
0+71.16	2+75.25	PROP CL RTE C - LT			210		29		SPLITTER ISLAND CENTERLINE	
0+71.16	2+71.33	PROP CL RTE C - RT			202				SPLITTER ISLAND CENTERLINE	
0+00.00	3+08.14	PROP CL RTE C - LT	321						EDGE LINE	
0+00.00	2+85.22	PROP CL RTE C - RT	291			47			EDGE LINE	
2+65.45		PROP CL RTE C - RT						10		
2+71.33	2+75.25	PROP CL RTE C	48						ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND	
2+71.33	2+71.33	PROP CL RTE C - RT		12						
4+10.86	4+17.57	PROP CL RTE C - LT		10						
4+12.80	4+17.57	PROP CL RTE C	48						ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND	
4+24.75		PROP CL RTE C - LT						10		
4+10.86	7+20.00	PROP CL RTE C - LT	318			61			EDGE LINE	
3+92.20	7+20.00	PROP CL RTE C - RT	338						EDGE LINE	
4+17.57	6+75.84	PROP CL RTE C - LT			261		22		SPLITTER ISLAND CENTERLINE	
4+12.80	6+75.84	PROP CL RTE C - RT			268				SPLITTER ISLAND CENTERLINE	
6+75.84	7+20.00	PROP CL RTE C			88				DOUBLE YELLOW CENTERLINE	
526+60.00		ROUTE 87 EX. C.L.						12	NORTH APPROACH STOP BAR (PHASE 2 - 3)	
522+60.00		ROUTE 87 EX. C.L.						12	NORTH APPROACH STOP BAR (PHASE 4 - 7)	
533+47.00		ROUTE 87 EX. C.L.						12	SOUTH APPROACH STOP BAR	
298+00.00		ROUTE C EX. C.L.						12	WEST APPROACH STOP BAR (PHASE 2 - 5)	
315+80.00		ROUTE C EX. C.L.						12	WEST APPROACH STOP BAR (PHASE 6 - 7)	
306+40.00		ROUTE C EX. C.L.						12	EAST APPROACH STOP BAR	
		TOTAL =	2707	48	2704	150	90	40	72	
		USE	2755		2704	150	90	40		

36 IN. SURFACE-MOUNT DELINEATOR POST

SHEET NUMBER	STATION	LOCATION	36 IN. SURFACE MOUNT DELINEATOR POST EA	REMARKS
PM 1	1+41.64	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	1+99.01	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	2+02.07	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	2+62.25	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	2+64.50	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	4+19.75	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	4+21.00	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	4+75.00	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	2	ROUTE 87 CONST. BL.
PM 1	5+46.75	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	1+85.75	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+24.57	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+27.24	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+65.00	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+67.00	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	4+22.00	ROUTE C EAST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	4+23.25	ROUTE C EAST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	5+00.00	ROUTE C EAST APPROACH SPLITTER ISLAND	2	ROUTE C CONST. BL.
PM 1	5+95.00	ROUTE C EAST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
		TOTAL	20	

SUMMARY OF QUANTITIES  
SHEET 6 OF 7



11/06/2024 9:44:01 AM  
GREGORY G. LEARY - CIVIL  
MO PE 026654  
DATE PREPARED

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 3  
COUNTY MONITEAU  
JOB NO. JCD0113  
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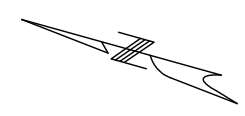
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)







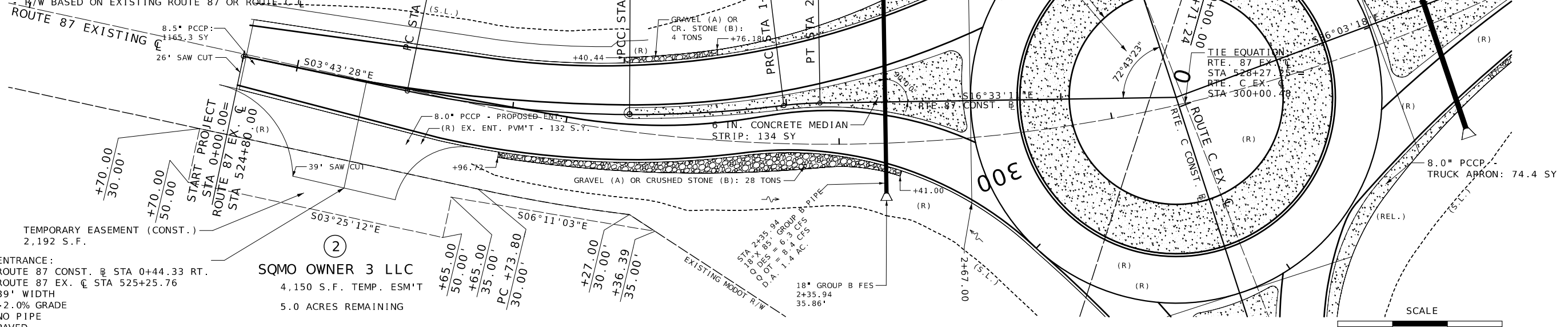


①  
**GALLIHER WILLIAM RAYMOND IV & ANGIE**  
 SEE SHEET 4 OF 4

T43N R15W S9  
 NE 1/4 SE 1/4

ROUNDABOUT CIRCULATORY  
 PI 0+00.00  
 PC 0+00.00  
 PT 0+00.00  
 $\Delta$  360° 0' 0.0" (LT)  
 D 76° 23' 39.7"  
 L 471.24' (ARC)  
 T 0.00'  
 R 75.00'

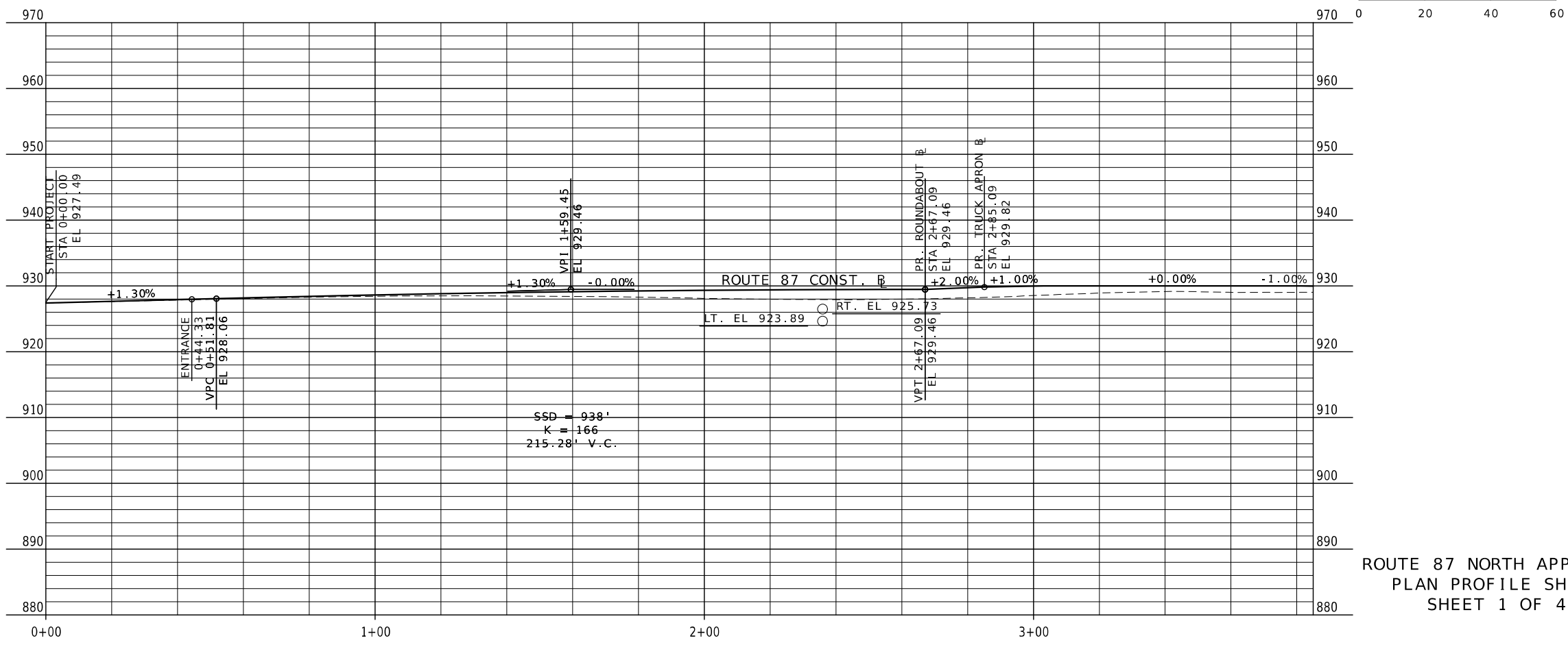
GENERAL NOTE:  
 - ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT  
 - ALL BEARINGS BASED ON STATE PLANE BEARINGS CENTRAL ZONE  
 - RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 524+70.00 TO STATION 532+10.00 A DISTANCE OF 0.142 MILES  
 - ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 524+70.00 TO STATION 532+10.00 MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. [18 M] UNLESS OTHERWISE NOTED  
 R/W BASED ON EXISTING ROUTE 87 OR ROUTE C



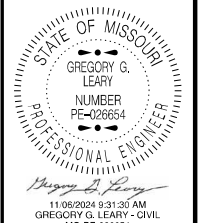
TEMPORARY EASEMENT (CONST.)  
 2,192 S.F.

ENTRANCE:  
 ROUTE 87 CONST. B STA 0+44.33 RT.  
 ROUTE 87 EX. C STA 525+25.76  
 39' WIDTH  
 -2.0% GRADE  
 NO PIPE  
 PAVED

②  
**SQMO OWNER 3 LLC**  
 4,150 S.F. TEMP. ESM'T  
 5.0 ACRES REMAINING



ROUTE 87 NORTH APPROACH  
 PLAN PROFILE SHEET  
 SHEET 1 OF 4

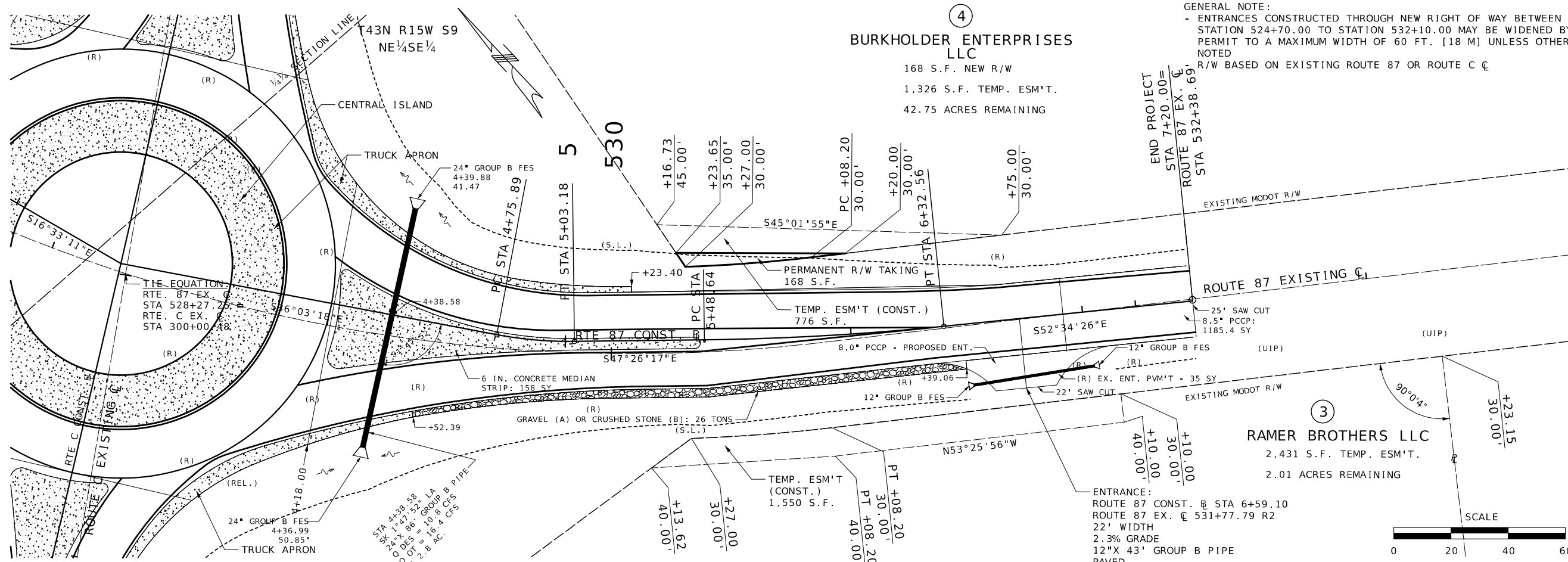


DATE PREPARED  
**11/6/2024**  
 ROUTE **87** STATE **MO**  
 DISTRICT **CD** SHEET NO. **4**  
 COUNTY  
**MONITEAU**  
 JOB NO.  
**JCD0113**  
 CONTRACT ID.

PROJECT NO.	BRIDGE NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

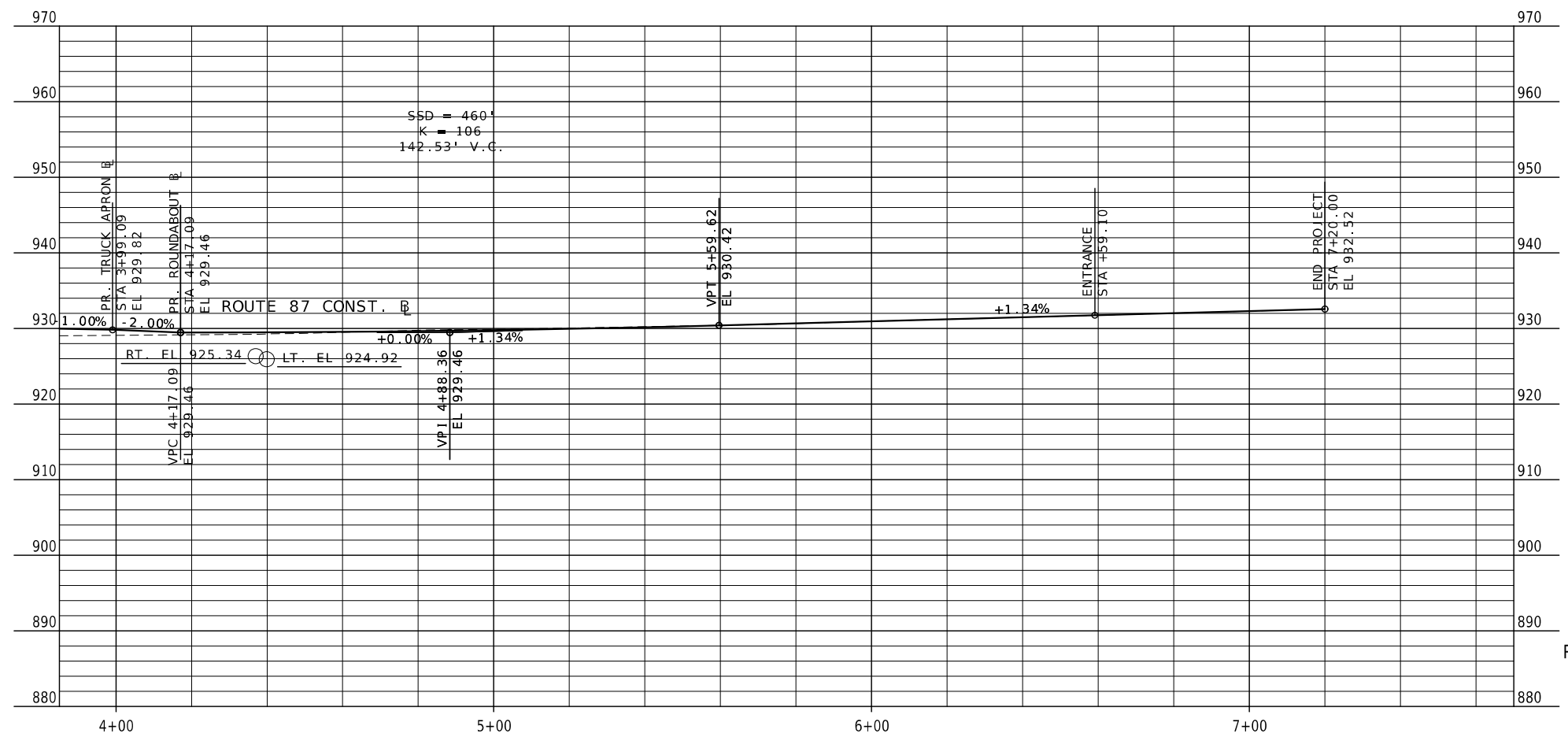
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)



④  
 BURKHOLDER ENTERPRISES  
 LLC  
 168 S.F. NEW R/W  
 1,326 S.F. TEMP. ESM'T.  
 42.75 ACRES REMAINING

GENERAL NOTE:  
 - ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 524+70.00 TO STATION 532+10.00 MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. [18 M] UNLESS OTHERWISE NOTED  
 R/W BASED ON EXISTING ROUTE 87 OR ROUTE C CL

③  
 RAMER BROTHERS LLC  
 2,431 S.F. TEMP. ESM'T.  
 2.01 ACRES REMAINING



ROUTE 87 SOUTH APPROACH  
 PLAN PROFILE SHEET  
 SHEET 2 OF 4

DATE PREPARED  
11/6/2024

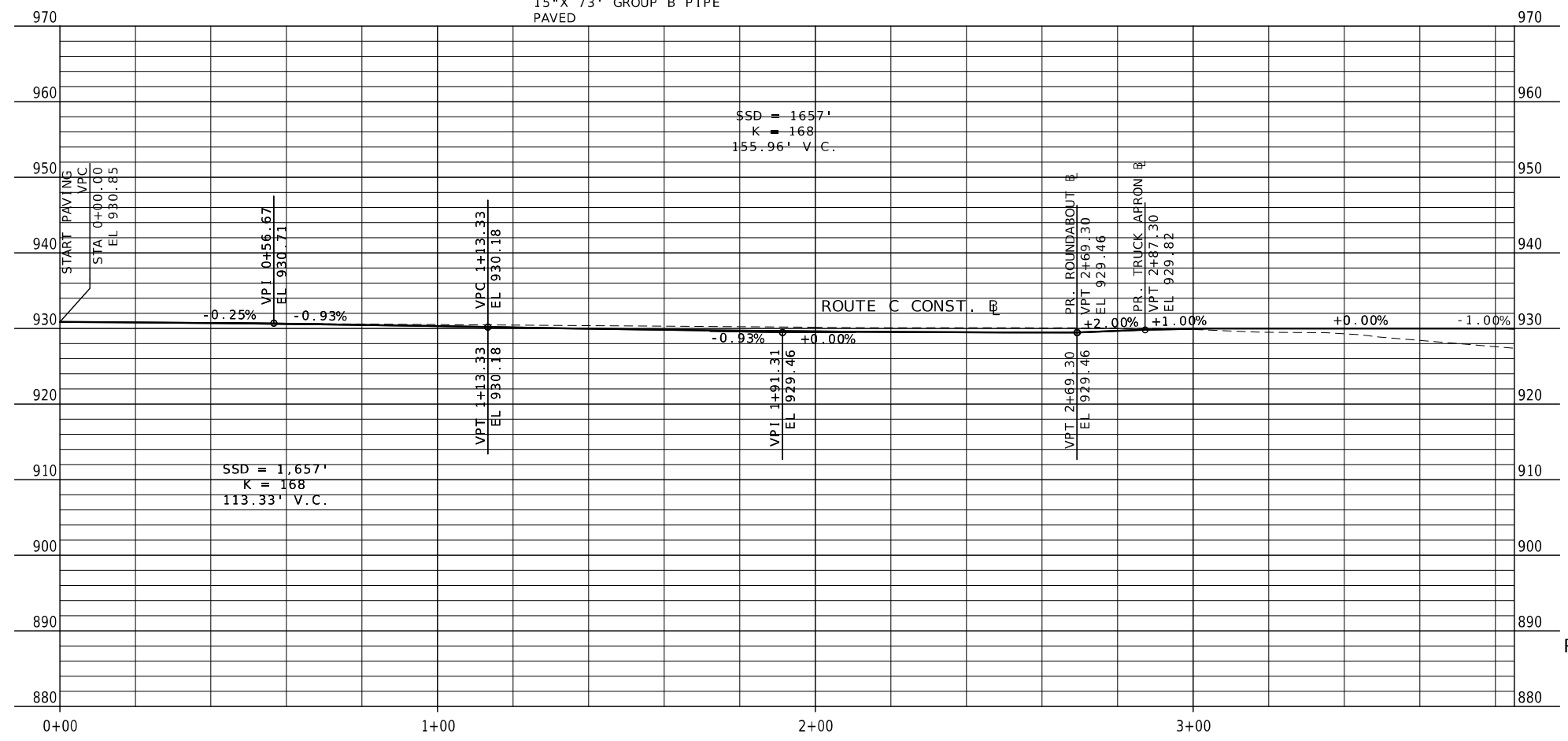
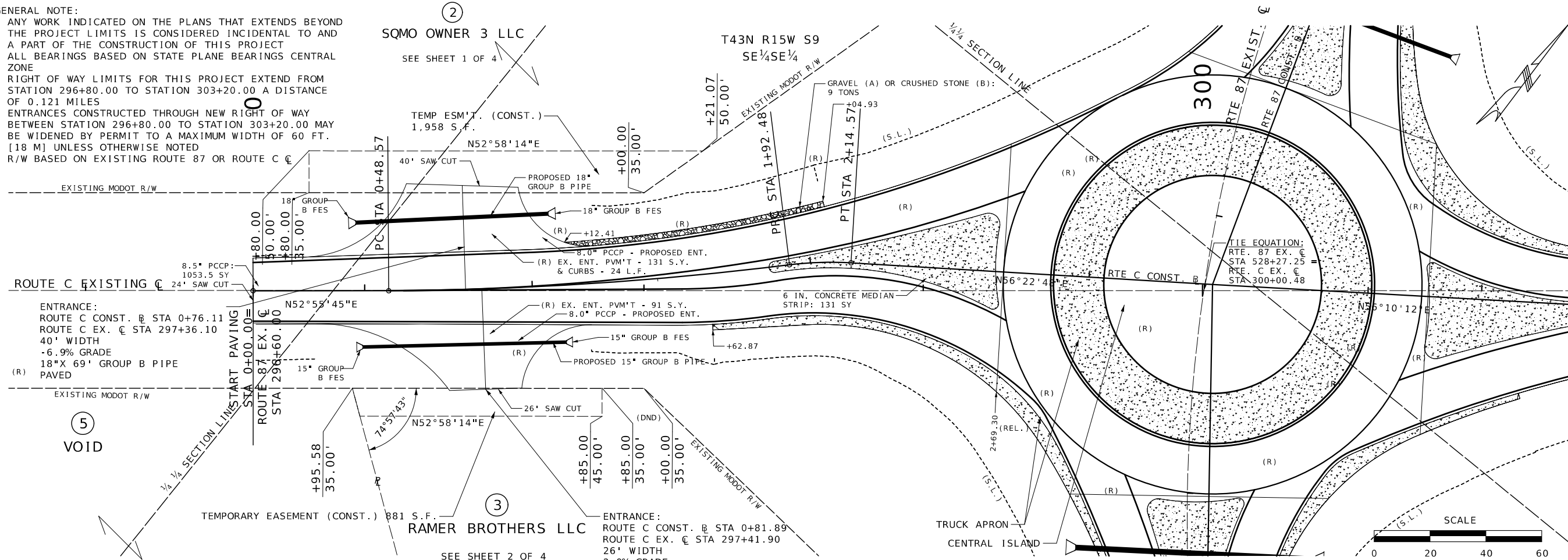
ROUTE	STATE	
87	MO	
DISTRICT	SHEET NO.	
CD	5	
COUNTY	MONITEAU	
JOB NO.	JCD0113	
CONTRACT ID.		
PROJECT NO.		
BRIDGE NO.		

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-273-6636)

- GENERAL NOTE:
- ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT
  - ALL BEARINGS BASED ON STATE PLANE BEARINGS CENTRAL ZONE
  - RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 296+80.00 TO STATION 303+20.00 A DISTANCE OF 0.121 MILES
  - ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 296+80.00 TO STATION 303+20.00 MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. [18 M] UNLESS OTHERWISE NOTED
  - R/W BASED ON EXISTING ROUTE 87 OR ROUTE C C



ROUTE C WEST APPROACH  
PLAN PROFILE SHEET  
SHEET 3 OF 4



DATE PREPARED  
11/6/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 6

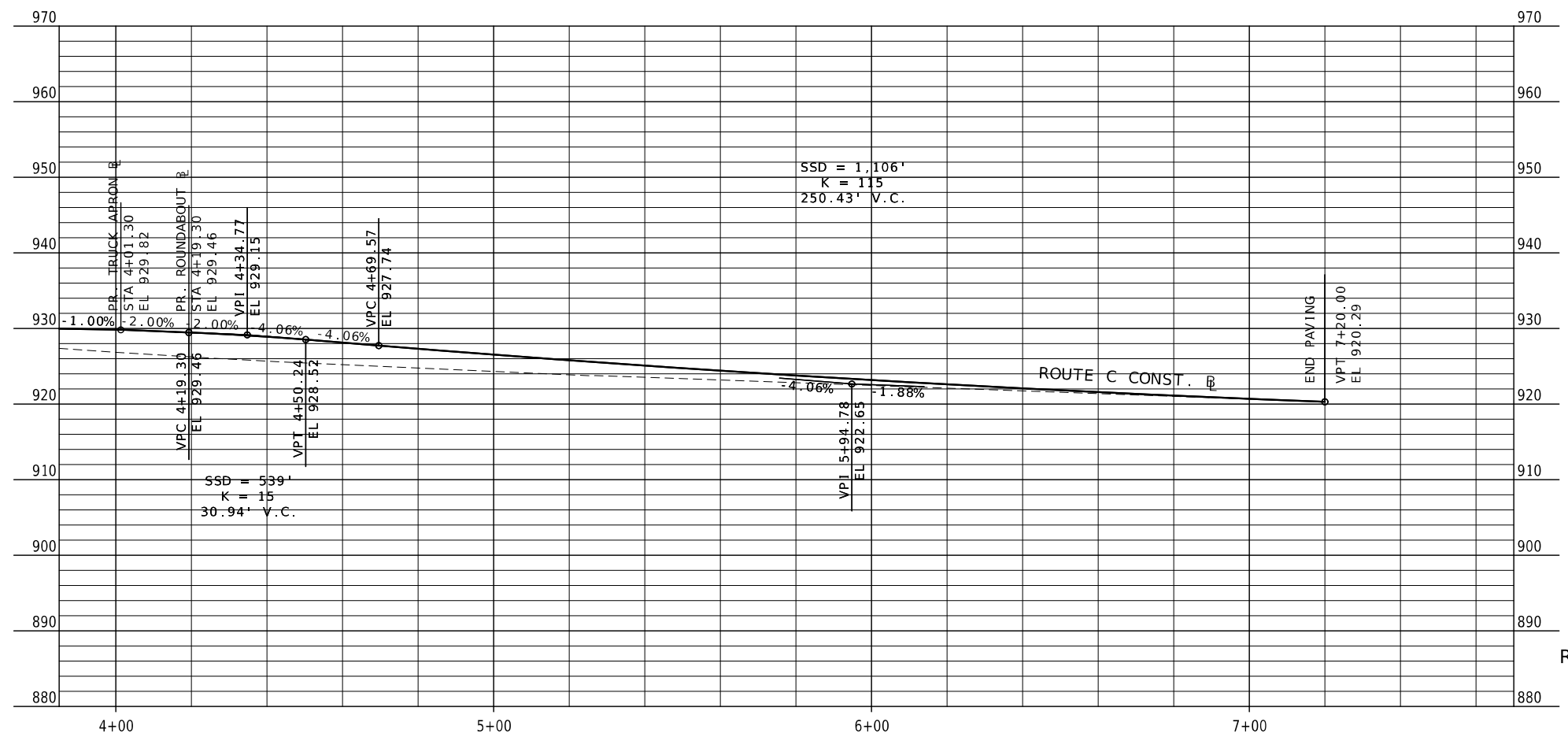
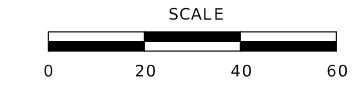
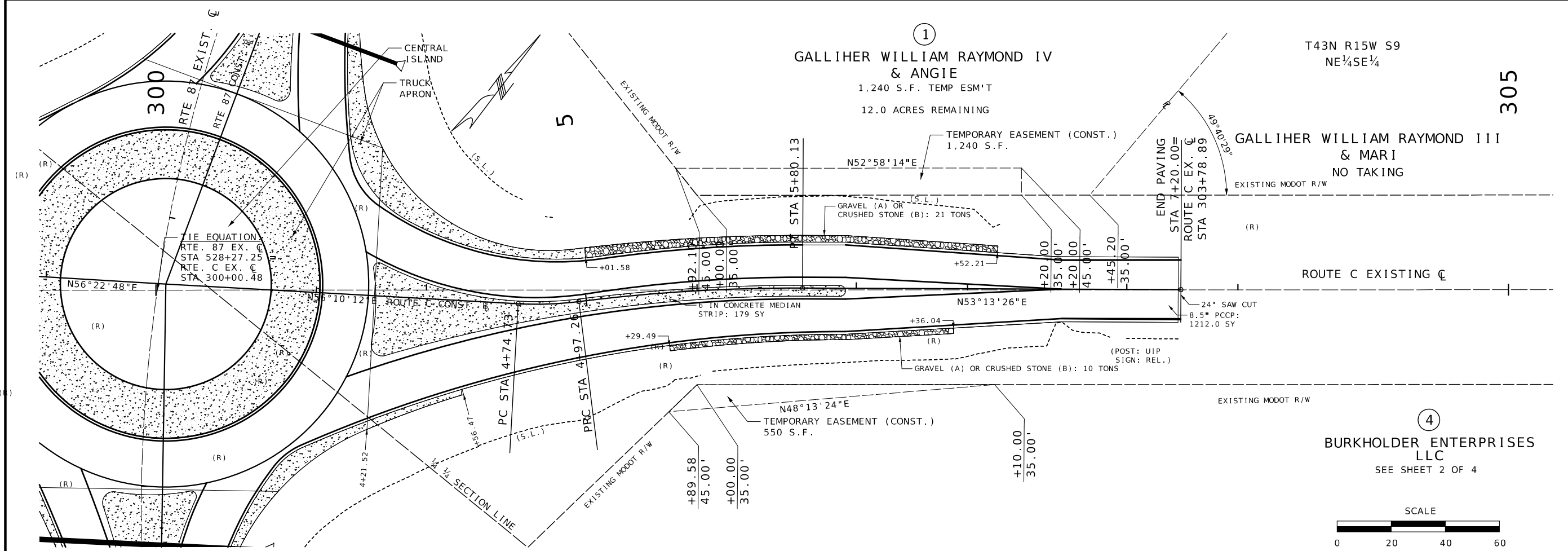
COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.

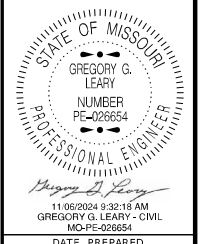
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)



ROUTE C EAST APPROACH  
PLAN PROFILE SHEET  
SHEET 4 OF 4

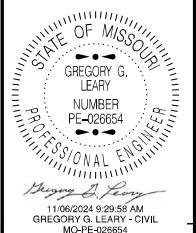


DATE PREPARED	11/6/2024
ROUTE	87
STATE	MO
DISTRICT	CD
SHEET NO.	7
COUNTY	MONITEAU
JOB NO.	JCD0113
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)



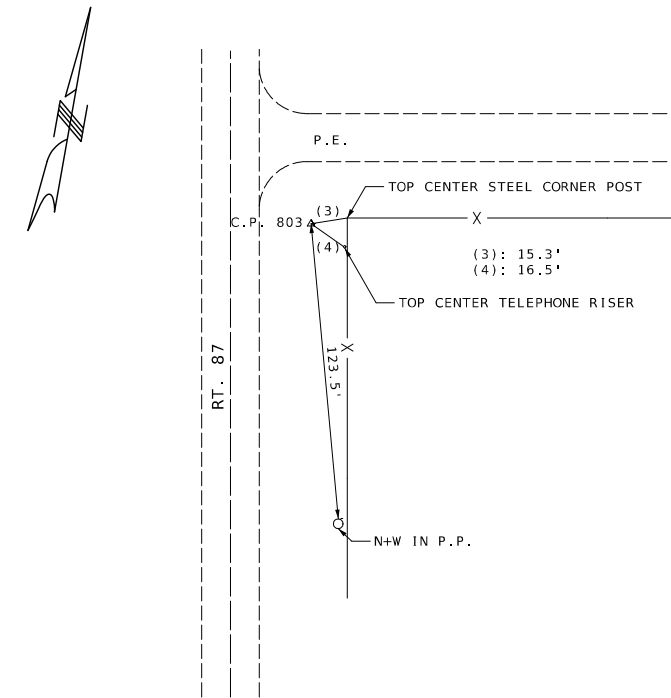
11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 8  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



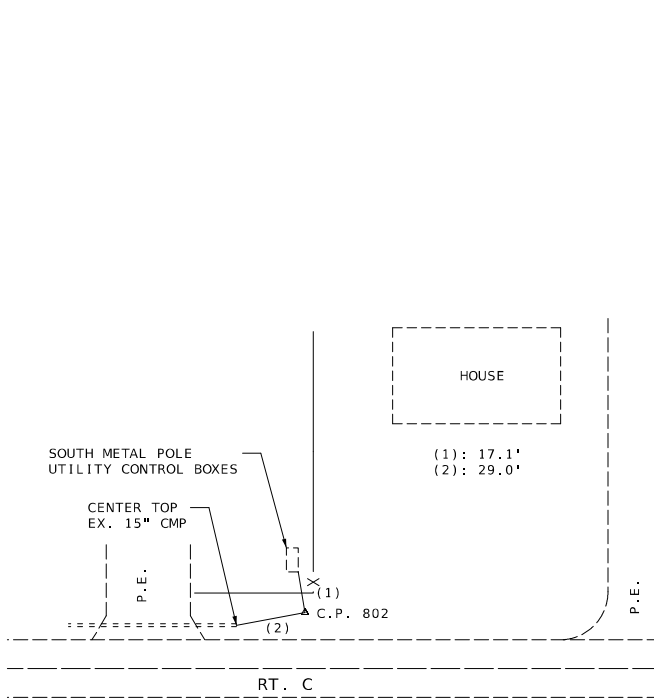
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-273-6636)



CONTROL POINT 803  
 REBAR & CAP BURIED 0.1',  
 20' E. OF C RT. 87,  
 16' S. OF P.E.,  
 460' S. OF JCT RT. 87 & RT. C

EASTING: 1620606.9980  
 NORTHING: 967727.7739  
 ELEVATION: 931.51

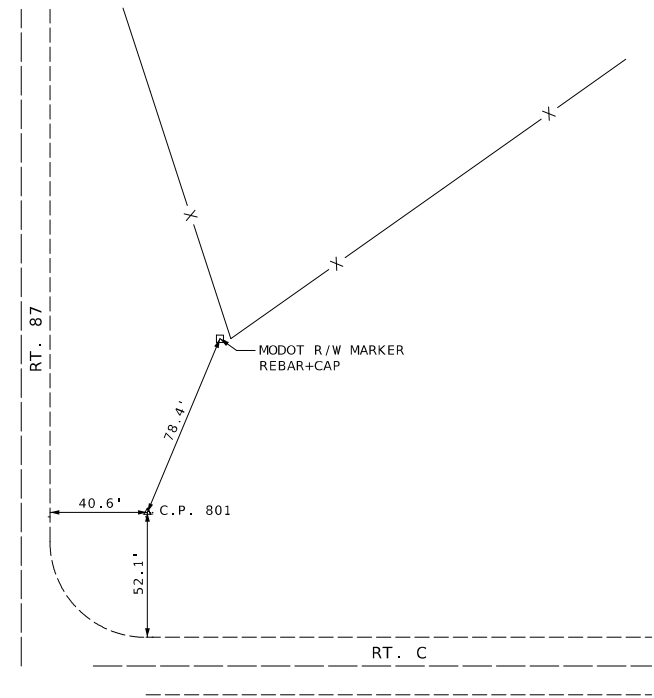
NOT TO SCALE



CONTROL POINT 802  
 REBAR & CAP BURIED 0.2',  
 31' N. OF C RT. C,  
 698' W. OF JCT. RT. 87 & RT. C

EASTING: 1619695.4708  
 NORTHING: 967627.4392  
 ELEVATION: 927.50

NOT TO SCALE



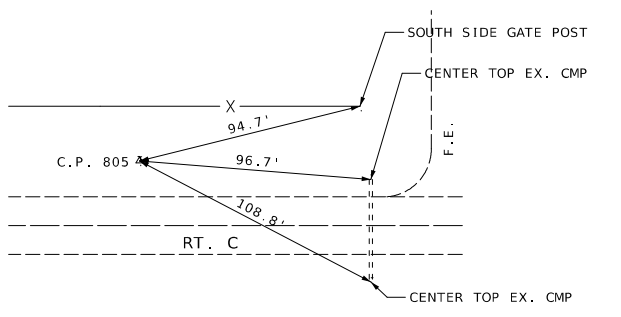
CONTROL POINT 801  
 REBAR & CAP BURIED 0.25',  
 52' N. OF E.P. RT. C,  
 40' E. OF E.P. RT. 87

EASTING: 1620288.2791  
 NORTHING: 968120.9285  
 ELEVATION: 925.97

NOT TO SCALE

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.

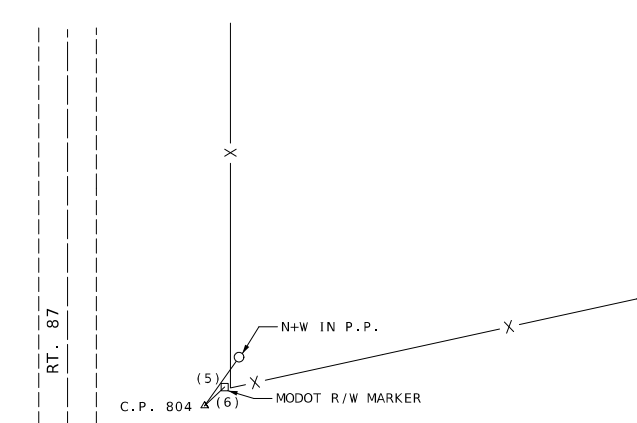
PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	NAD83 (2011)
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	G2018U7
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING
PROJECT PROJECTION FACTOR	1.0000984
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	NAD83 (2011)
CONTROL STATION	CORS
DESIGNATION	MODOT ELDON CORS ARP
CORS_ID	MOEL
PID	DL6153
LATITUDE	38 20 49.67807
LONGITUDE	092 35 43.33476
NORTHING (M)	278965.6230
EASTING (M)	491663.5450
ZONE	2402 (MO-CENTRAL)
PROJECT AVERAGE GRID FACTOR	0.9999016
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING	
PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING	
EXAMPLE: CONTROL POINT #801	
N 968120.9285 X 0.9999016 = N 968025.6654	
E 1620288.279 X 0.9999016 = E 1620128.8426	
LINEAR UNIT CONVERSION	
1 METER = 3.280833333 US SURVEY FEET (USFT)	



CONTROL POINT 805  
 REBAR & CAP BURIED 0.2',  
 27' N. OF C RT. C,  
 700' E. OF JCT. RT. 87 & RT. C

EASTING: 1620815.1804  
 NORTHING: 968464.2033  
 ELEVATION: 914.59

NOT TO SCALE



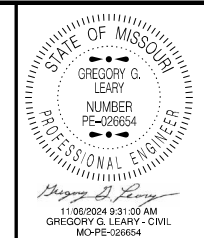
CONTROL POINT 804  
 REBAR & CAP BURIED 0.2',  
 26' E. OF C RT. 87,  
 506' N. OF JCT. RT. 87 & RT. C

EASTING: 1620210.3581  
 NORTHING: 968525.5447  
 ELEVATION: 923.88

NOT TO SCALE

**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)		
<b>ALIGNMENTS</b>								
	0+00.00	ROUTE 87 CONST. B.L.	0.00	968354.7733'	1620193.9364'	927.39	BEGIN PROJECT	
	0+61.04	ROUTE 87 CONST. B.L.	0.00	968293.8653'	1620197.9012'	928.18	PC	
	1+42.66	ROUTE 87 CONST. B.L.	0.00	968213.5217'	1620211.4679'	928.99	PCC	
	1+99.01	ROUTE 87 CONST. B.L.	0.00	968160.2808'	1620229.7961'	929.32	PRC	
	2+12.22	ROUTE 87 CONST. B.L.	0.00	968147.8474'	1620234.2490'	929.37	PT	
	3+42.09	ROUTE 87 CONST. B.L.	0.00	968023.3544'	1620271.2508'	930.00	POT	
	4+75.89	ROUTE 87 CONST. B.L.	0.00	967915.1885'	1620349.9971'	929.62	PC	
	5+03.18	ROUTE 87 CONST. B.L.	0.00	967894.8603'	1620368.1385'	929.81	PT	
	5+48.64	ROUTE 87 CONST. B.L.	0.00	967864.1116'	1620401.6218'	930.27	PC	
	6+32.56	ROUTE 87 CONST. B.L.	0.00	967810.1947'	1620465.8908'	931.39	PT	
	7+20.00	ROUTE 87 CONST. B.L.	0.00	967757.0510'	1620535.3339'	932.52	END PROJECT	
	0+00.00	ROUTE C CONST. B.L.	0.00	967814.7930'	1619998.6620'	930.85	BEGIN PROJECT	
	0+48.57	ROUTE C CONST. B.L.	0.00	967843.8150'	1620037.0800'	930.66	PC	
	1+92.48	ROUTE C CONST. B.L.	0.00	967937.6833'	1620146.0453'	929.64	PRC	
	2+14.57	ROUTE C CONST. B.L.	0.00	967951.5263'	1620163.2224'	929.55	PT	
	3+44.30	ROUTE C CONST. B.L.	0.00	968023.3544'	1620271.2508'	930.00	POT	
	4+74.73	ROUTE C CONST. B.L.	0.00	968095.9707'	1620379.6008'	927.53	PC	
	4+97.26	ROUTE C CONST. B.L.	0.00	968110.1267'	1620397.0867'	926.65	PRC	
	5+80.13	ROUTE C CONST. B.L.	0.00	968163.8736'	1620460.0935'	923.78	PT	
	7+20.00	ROUTE C CONST. B.L.	0.00	968247.6113'	1620572.1257'	920.29	END OF PROJECT	
	512+96.95	ROUTE 87 EX. C.L.	0.00	969535.7674'	1620124.2162'	-	POT	
	525+73.80	ROUTE 87 EX. C.L.	0.00	968261.1943'	1620200.3841'	-	PC	
	530+73.80 BK 531+08.20 AH	ROUTE 87 EX. C.L.	0.00	967835.3056'	1620430.9120'	-	PT/EQUATION	
	539+43.26	ROUTE 87 EX. C.L.	0.00	967337.7973'	1621101.5967'	-	POT	
	309+96.50	ROUTE C EX. C.L.	0.00	967387.2167'	1619379.5840'	-	PC	
	313+43.20	ROUTE C EX. C.L.	0.00	967569.8126'	1619673.7438'	-	PT	
	315+89.70	ROUTE C EX. C.L.	0.00	967718.2610'	1619870.5313'	-	EQUATION	
	295+00.00							
	300+00.48	ROUTE C EX. C.L.	0.00	968019.6625'	1620270.0779'	-	POT	
	311+72.10	ROUTE C EX. C.L.	0.00	968725.2409'	1621205.4133'	-	PC	
	316+22.10	ROUTE C EX. C.L.	0.00	968919.6940'	1621608.0285'	-	PT	
	0+00.00	PHASE 2 B.L.	0.00	967757.0510'	1620535.3339'	-	START	
	0+45.62	PHASE 2 B.L.	0.00	967784.7725'	1620499.1067'	-	POT	
	0+91.19	PHASE 2 B.L.	0.00	967812.8057'	1620463.1746'	-	POT	
	1+74.71	PHASE 2 B.L.	0.00	967867.1714'	1620399.7688'	-	POT	
	2+16.72	PHASE 2 B.L.	0.00	967895.5867'	1620368.8258'	-	POT	
	2+60.07	PHASE 2 B.L.	0.00	967926.2540'	1620338.1986'	-	POT	
	3+03.36	PHASE 2 B.L.	0.00	967959.2174'	1620310.1282'	-	POT	
	3+39.36	PHASE 2 B.L.	0.00	967990.0033'	1620291.4673'	-	PC	
	3+94.78	PHASE 2 B.L.	0.00	968038.3653'	1620307.2462'	-	PT	
	4+30.78	PHASE 2 B.L.	0.00	968052.2216'	1620340.4728'	-	PC	
	4+40.47	PHASE 2 B.L.	0.00	968060.9015'	1620336.1755'	-	PT	
	5+75.08	PHASE 2 B.L.	0.00	968134.9662'	1620426.2446'	-	POT	
	6+97.24	PHASE 2 B.L.	0.00	968221.1718'	1620536.7550'	-	POT	
	7+41.40	PHASE 2 B.L.	0.00	968247.5527'	1620572.1695'	-	END	
	0+00.00	PHASE 4 B.L.	0.00	968354.8344'	1620194.8751'	-	START	
	0+70.64	PHASE 4 B.L.	0.00	968284.3822'	1620200.0350'	-	POT	
	1+06.22	PHASE 4 B.L.	0.00	968249.0304'	1620204.0109'	-	POT	
	1+45.52	PHASE 4 B.L.	0.00	968210.2297'	1620210.2824'	-	POT	
	1+79.43	PHASE 4 B.L.	0.00	968177.0376'	1620217.2451'	-	POT	
	2+27.84	PHASE 4 B.L.	0.00	968129.9747'	1620228.5711'	-	POT	
	2+68.05	PHASE 4 B.L.	0.00	968091.2524'	1620239.3940'	-	POT	
	3+04.05	PHASE 4 B.L.	0.00	968058.6614'	1620254.6853'	-	PC	
	3+67.01	PHASE 4 B.L.	0.00	968038.3653'	1620307.2462'	-	END	
	0+00.00	PHASE 6 B.L.	0.00	967814.5357'	1619998.3249'	-	START	
	1+53.62	PHASE 6 B.L.	0.00	967907.5817'	1620120.5556'	-	POT	
	2+33.16	PHASE 6 B.L.	0.00	967958.2010'	1620181.9205'	-	POT	
	2+68.75	PHASE 6 B.L.	0.00	967980.0324'	1620210.0282'	-	POT	
	3+04.75	PHASE 6 B.L.	0.00	968000.8270'	1620239.4150'	-	PC	
	3+72.92	PHASE 6 B.L.	0.00	968058.6614'	1620254.6853'	-	END	



DATE PREPARED  
11/5/2024

ROUTE <b>87</b>	STATE <b>MO</b>
DISTRICT <b>CD</b>	SHEET NO. <b>9</b>

COUNTY  
**MONITEAU**

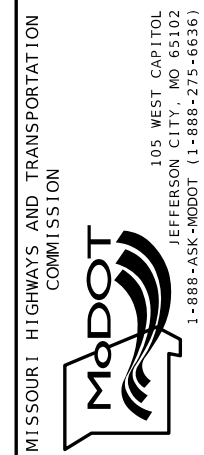
JOB NO.  
**JCD0113**

CONTRACT ID.

PROJECT NO.  
  
BRIDGE NO.

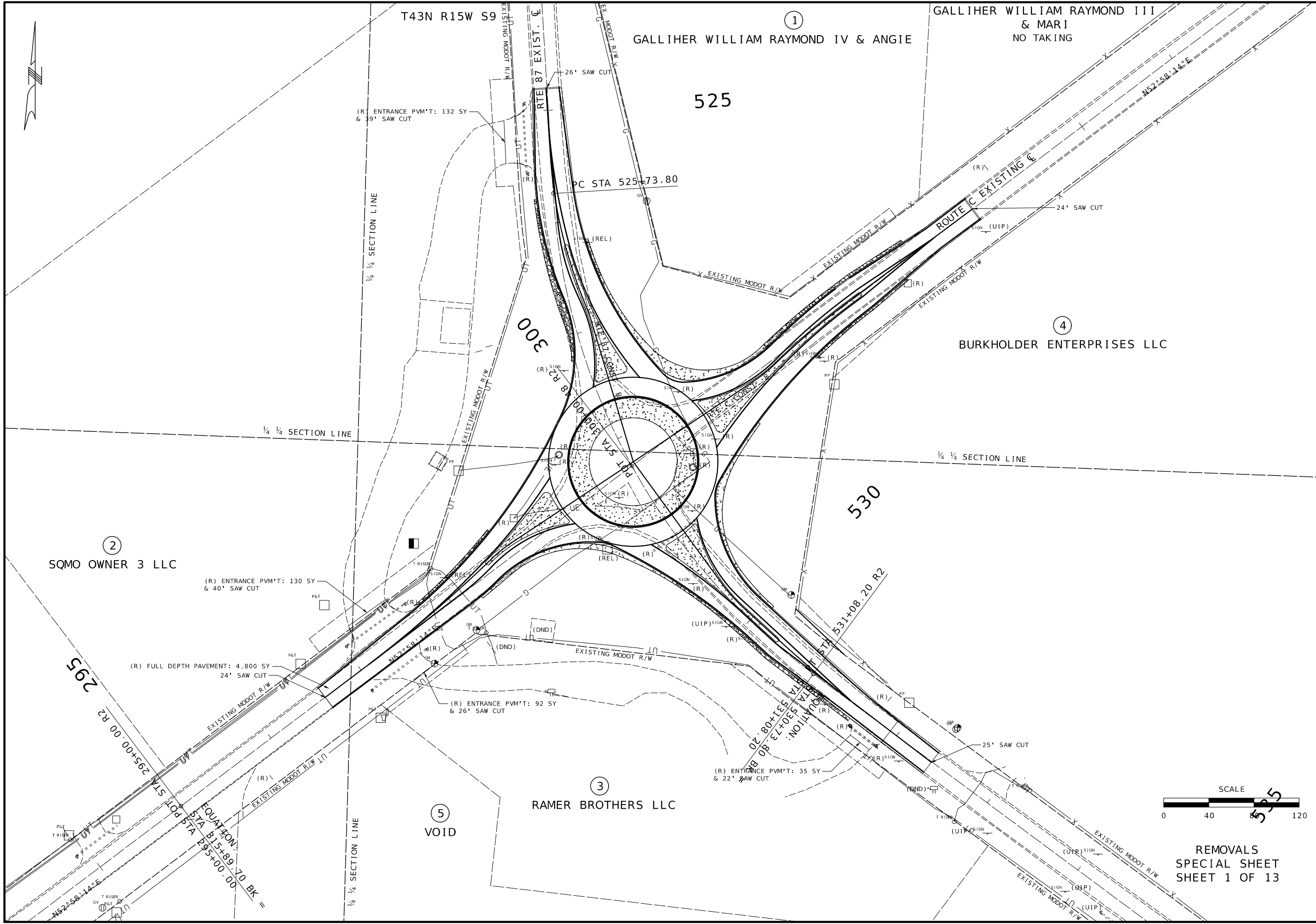
DATE	DESCRIPTION

DATE



MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

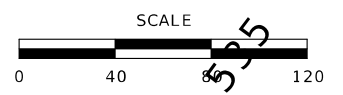


11/06/2024 9:52:30 AM  
 GREGORY G. LEARY - CIVIL  
 MO PE 026654  
 DATE PREPARED

ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	10
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
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)



REMOVALS  
 SPECIAL SHEET  
 SHEET 1 OF 13





11/06/2024 9:48:11 AM  
GREGORY G. LEARY - CIVIL  
MO#PE-026654  
DATE PREPARED

11/6/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 11
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**MoDOT**

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

ROUTE C EXISTING C

PI 314+00.04  
PC 311+72.10  
PT 316+22.10  
Δ 22°30'0.0" (RT)  
D 5'0'0.0"  
L 450.00' (ARC)  
T 227.94'  
R 1,145.92'

ROUTE 87 EXISTING C

PI 528+40.98  
PC 525+73.80  
PT 531+08.20  
Δ 50°0'44.6" (LT)  
D 10'0'8.9"  
L 500.00' (ARC)  
T 267.18'  
R 572.82'

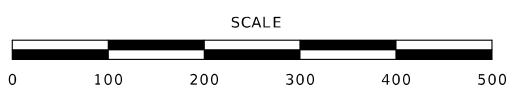
ROUTE C EXISTING C

PI 311+70.33  
PC 309+96.50  
PT 313+43.20  
Δ 10°24'0.1" (LT)  
D 2°59'59.0"  
L 346.70' (ARC)  
T 173.83'  
R 1,910.04'

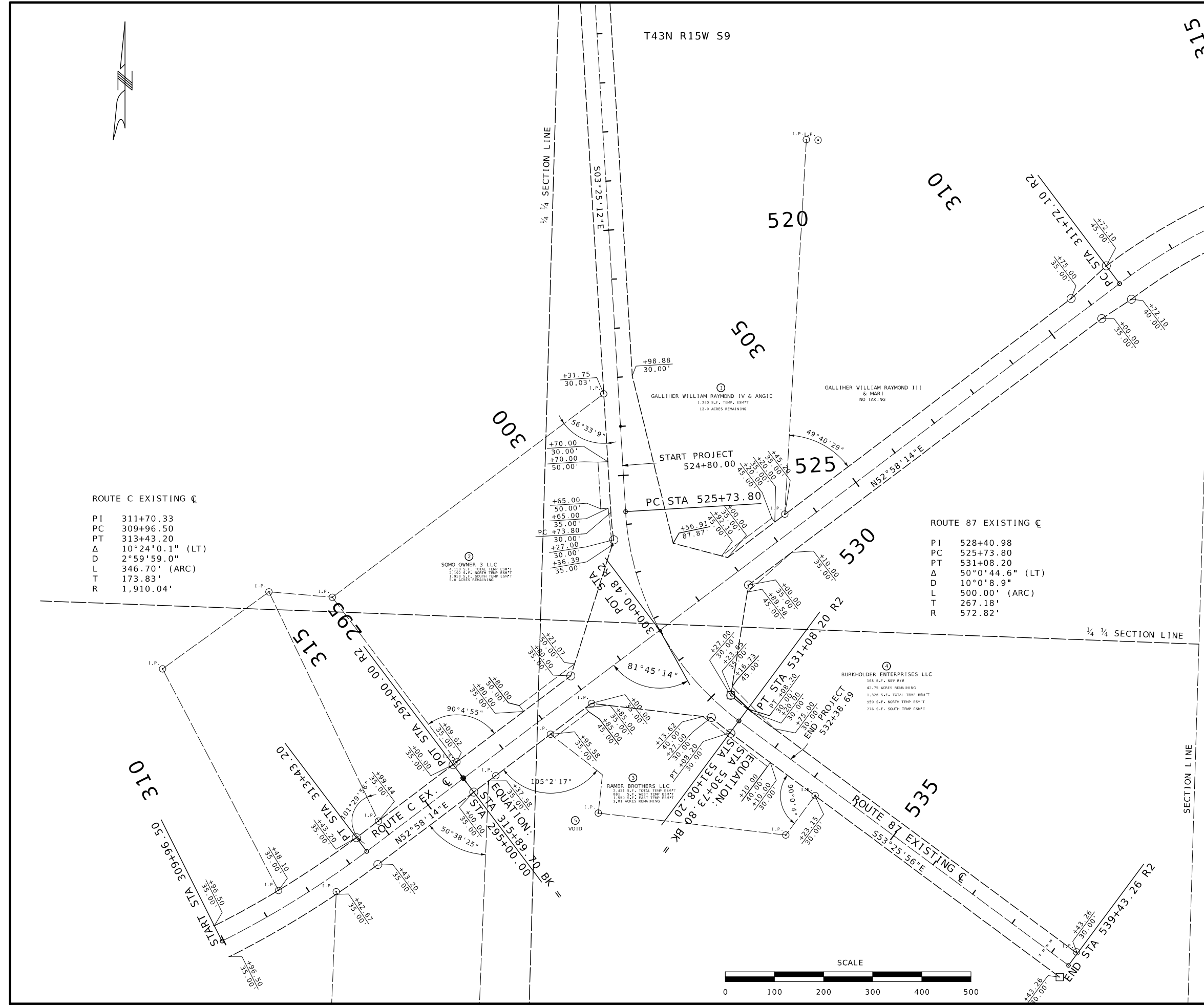
**PT. 33**  
4,519.59'  
N69°42'29"E

**PT. 32**  
4,010.93'  
N77°45'02"E

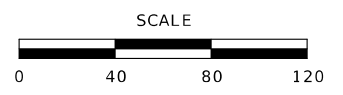
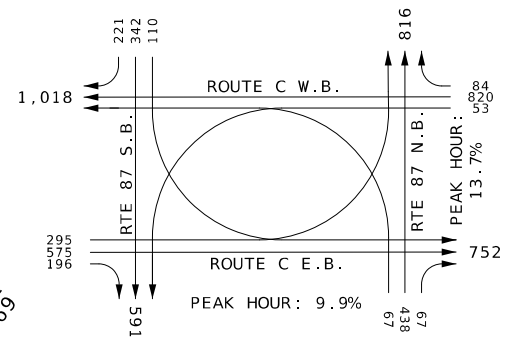
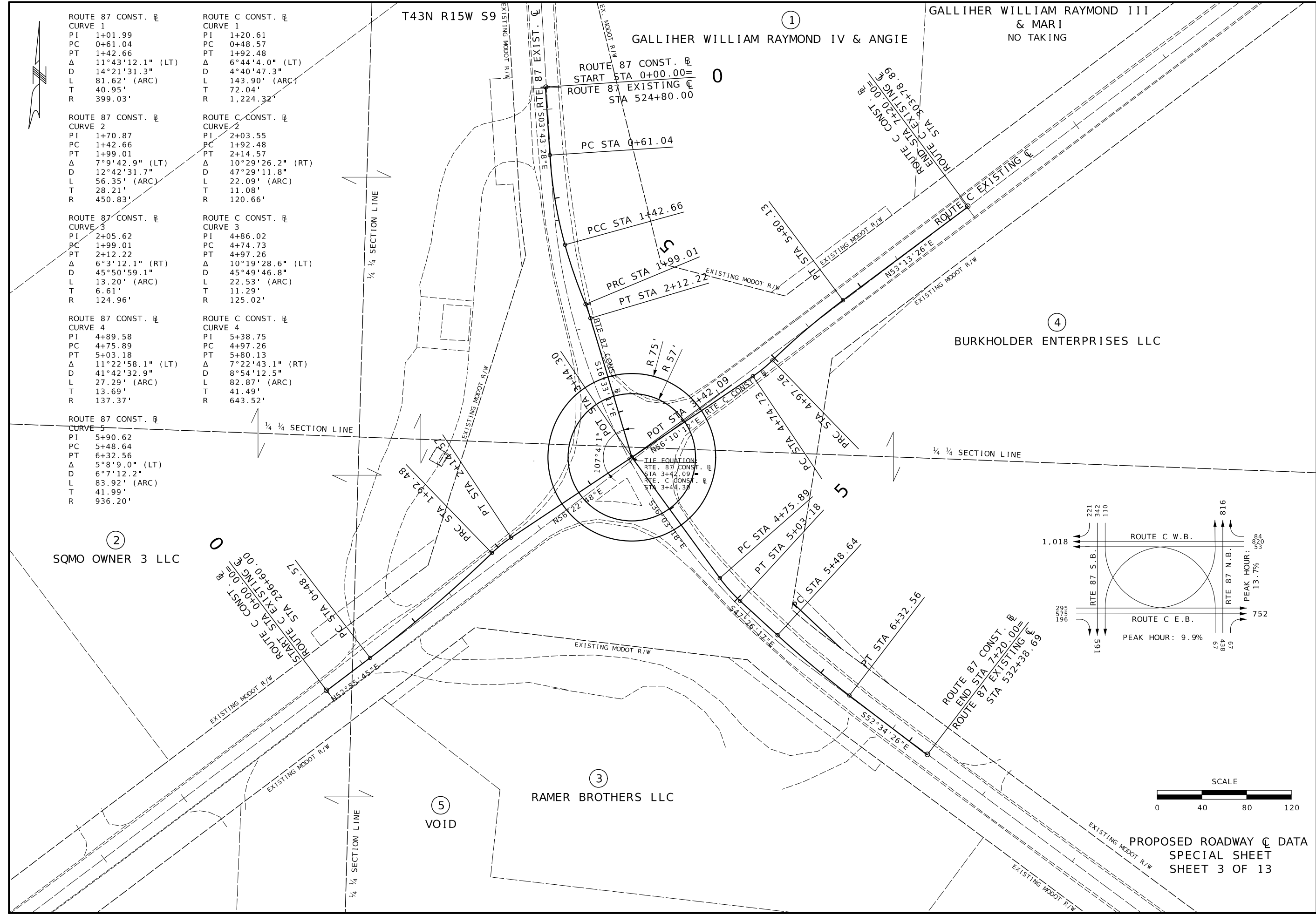
**REBAR NOTES:**  
3/8" REBAR WITH PLASTIC CAP STAMPED L5#189  
AT THE SOUTHWEST CORNER S9 T43N R15W AS SHOWN ON MLS DOC# 600-48059



EXISTING ROADWAY C DATA  
SPECIAL SHEET  
SHEET 2 OF 13



ROUTE 87 CONST. R/CURVE 1 PI 1+01.99 PC 0+61.04 PT 1+42.66 Δ 11°43'12.1" (LT) D 14°21'31.3" L 81.62' (ARC) T 40.95' R 399.03'	ROUTE C CONST. R/CURVE 1 PI 1+20.61 PC 0+48.57 PT 1+92.48 Δ 6°44'4.0" (LT) D 4°40'47.3" L 143.90' (ARC) T 72.04' R 1,224.32'
ROUTE 87 CONST. R/CURVE 2 PI 1+70.87 PC 1+42.66 PT 1+99.01 Δ 7°9'42.9" (LT) D 12°42'31.7" L 56.35' (ARC) T 28.21' R 450.83'	ROUTE C CONST. R/CURVE 2 PI 2+03.55 PC 1+92.48 PT 2+14.57 Δ 10°29'26.2" (RT) D 47°29'11.8" L 22.09' (ARC) T 11.08' R 120.66'
ROUTE 87 CONST. R/CURVE 3 PI 2+05.62 PC 1+99.01 PT 2+12.22 Δ 6°3'12.1" (RT) D 45°50'59.1" L 13.20' (ARC) T 6.61' R 124.96'	ROUTE C CONST. R/CURVE 3 PI 4+86.02 PC 4+74.73 PT 4+97.26 Δ 10°19'28.6" (LT) D 45°49'46.8" L 22.53' (ARC) T 11.29' R 125.02'
ROUTE 87 CONST. R/CURVE 4 PI 4+89.58 PC 4+75.89 PT 5+03.18 Δ 11°22'58.1" (LT) D 41°42'32.9" L 27.29' (ARC) T 13.69' R 137.37'	ROUTE C CONST. R/CURVE 4 PI 5+38.75 PC 4+97.26 PT 5+80.13 Δ 7°22'43.1" (RT) D 8°54'12.5" L 82.87' (ARC) T 41.49' R 643.52'
ROUTE 87 CONST. R/CURVE 5 PI 5+90.62 PC 5+48.64 PT 6+32.56 Δ 5°8'9.0" (LT) D 6°7'12.2" L 83.92' (ARC) T 41.99' R 936.20'	



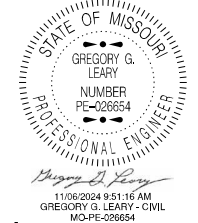
PROPOSED ROADWAY C DATA  
SPECIAL SHEET  
SHEET 3 OF 13

11/06/2024 9:51:26 AM  
GREGORY G. LEARY - CIVIL  
JAMES W. FREEMAN

11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 12
COUNTY MONITEAU	
JOB NO. JCD0113	
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)



11/06/2024 9:51:16 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-226654

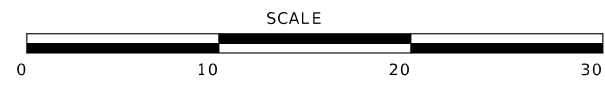
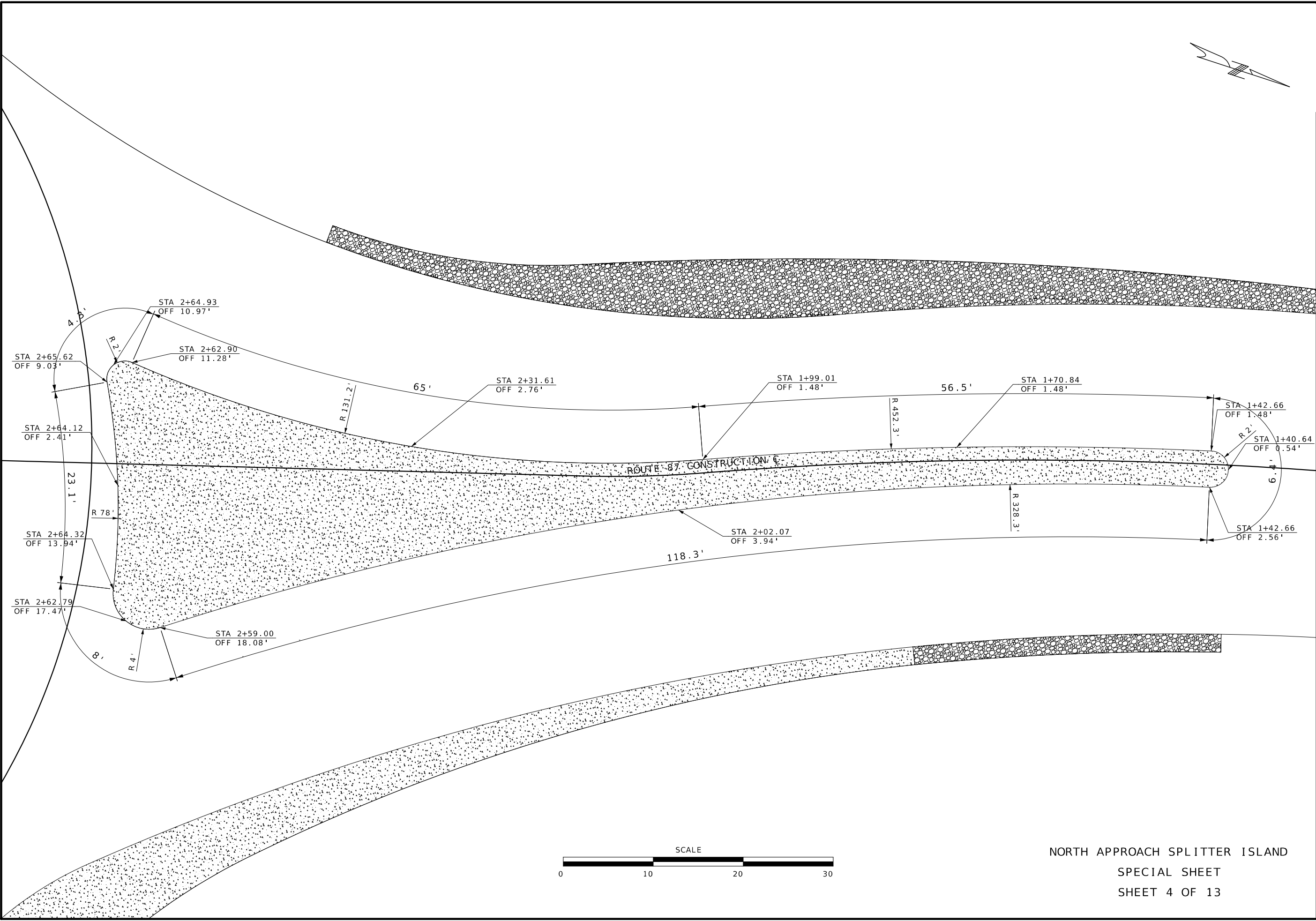
DATE PREPARED	
11/5/2024	
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	13
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

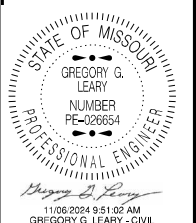
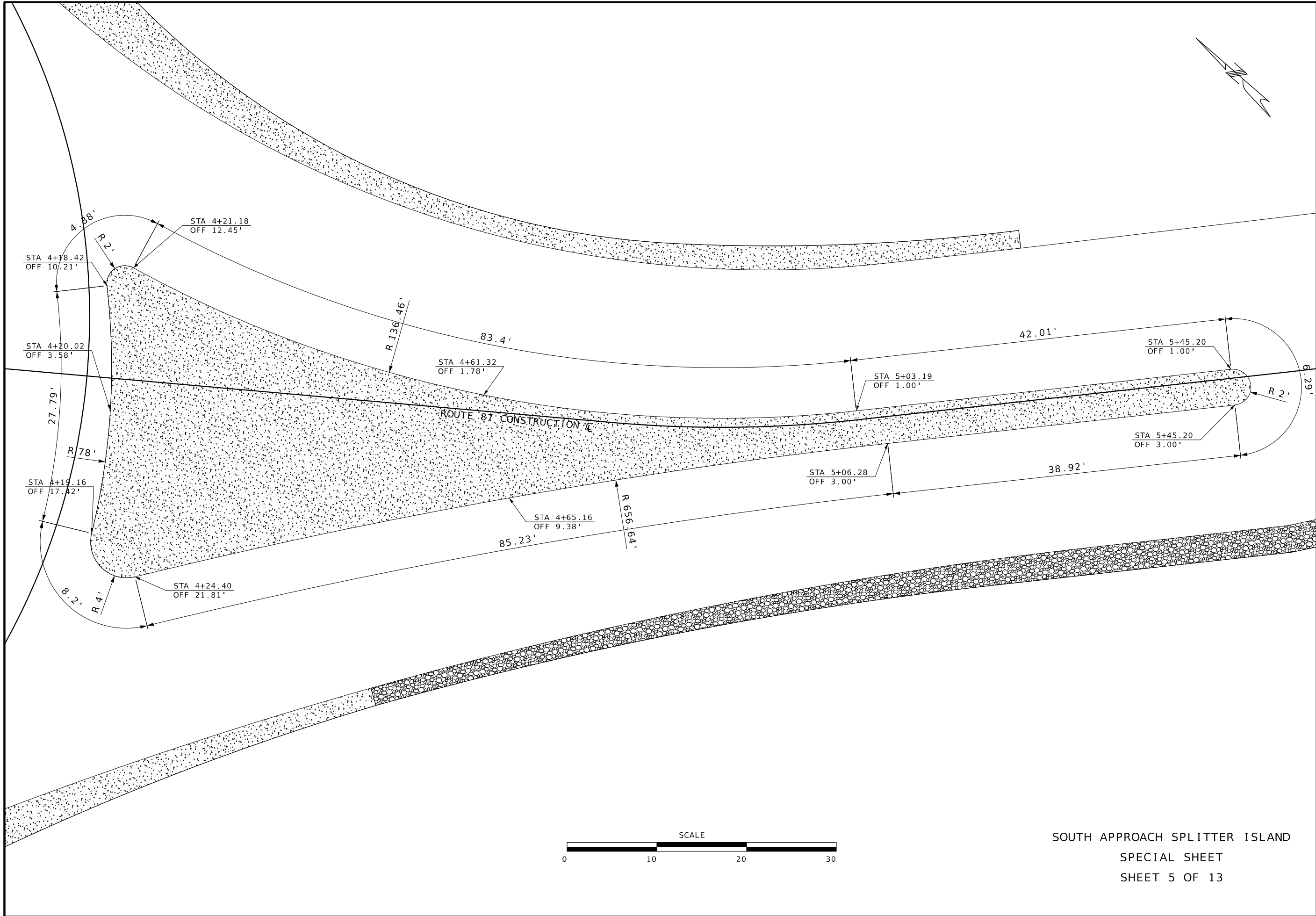
MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



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



NORTH APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 4 OF 13



DATE PREPARED  
11/5/2024

ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	14

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

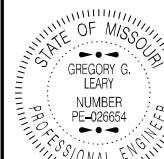
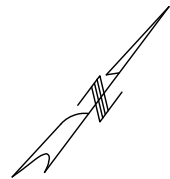
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SOUTH APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 5 OF 13



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 15

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

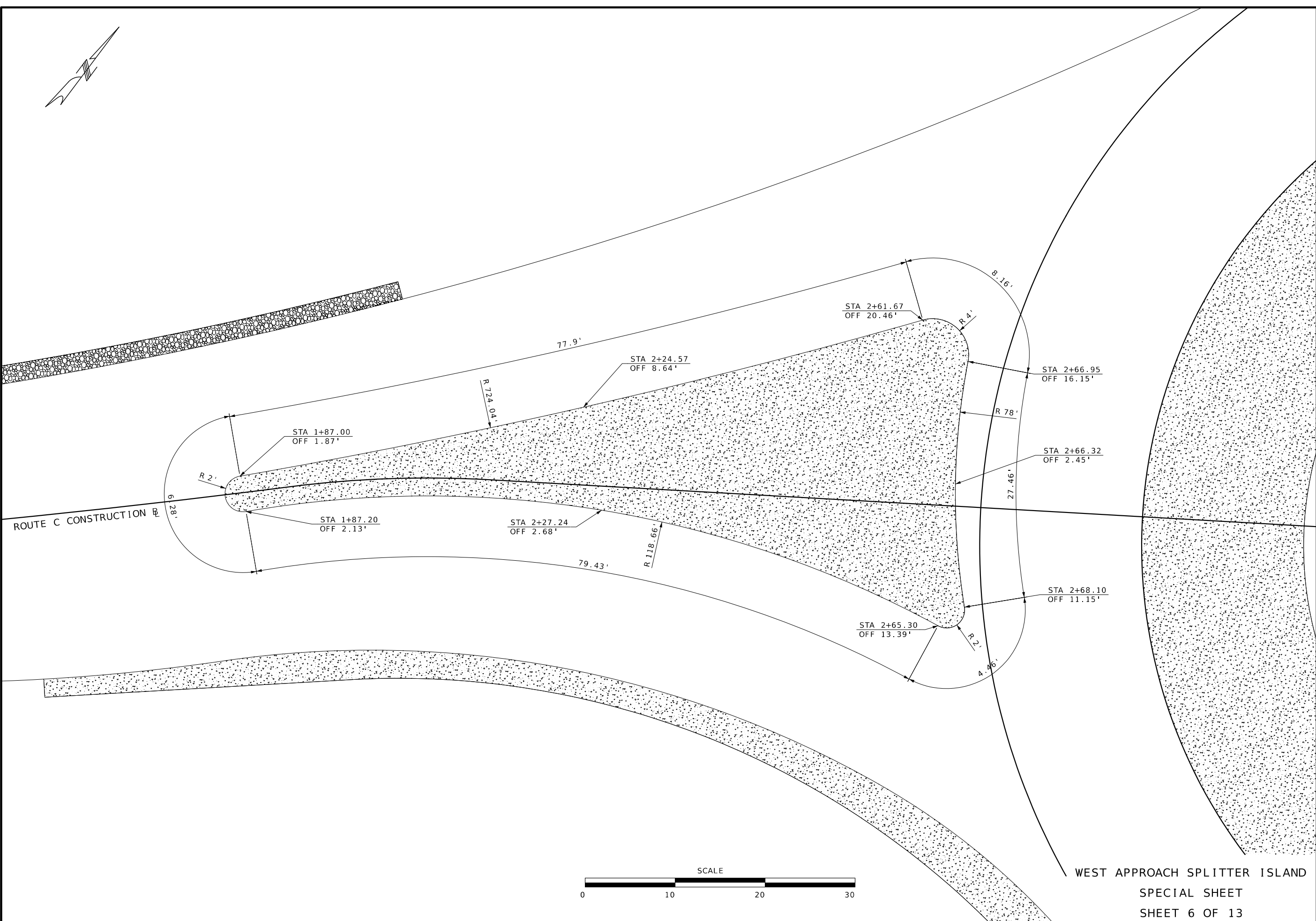
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

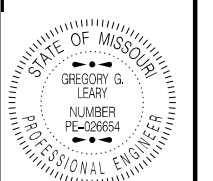
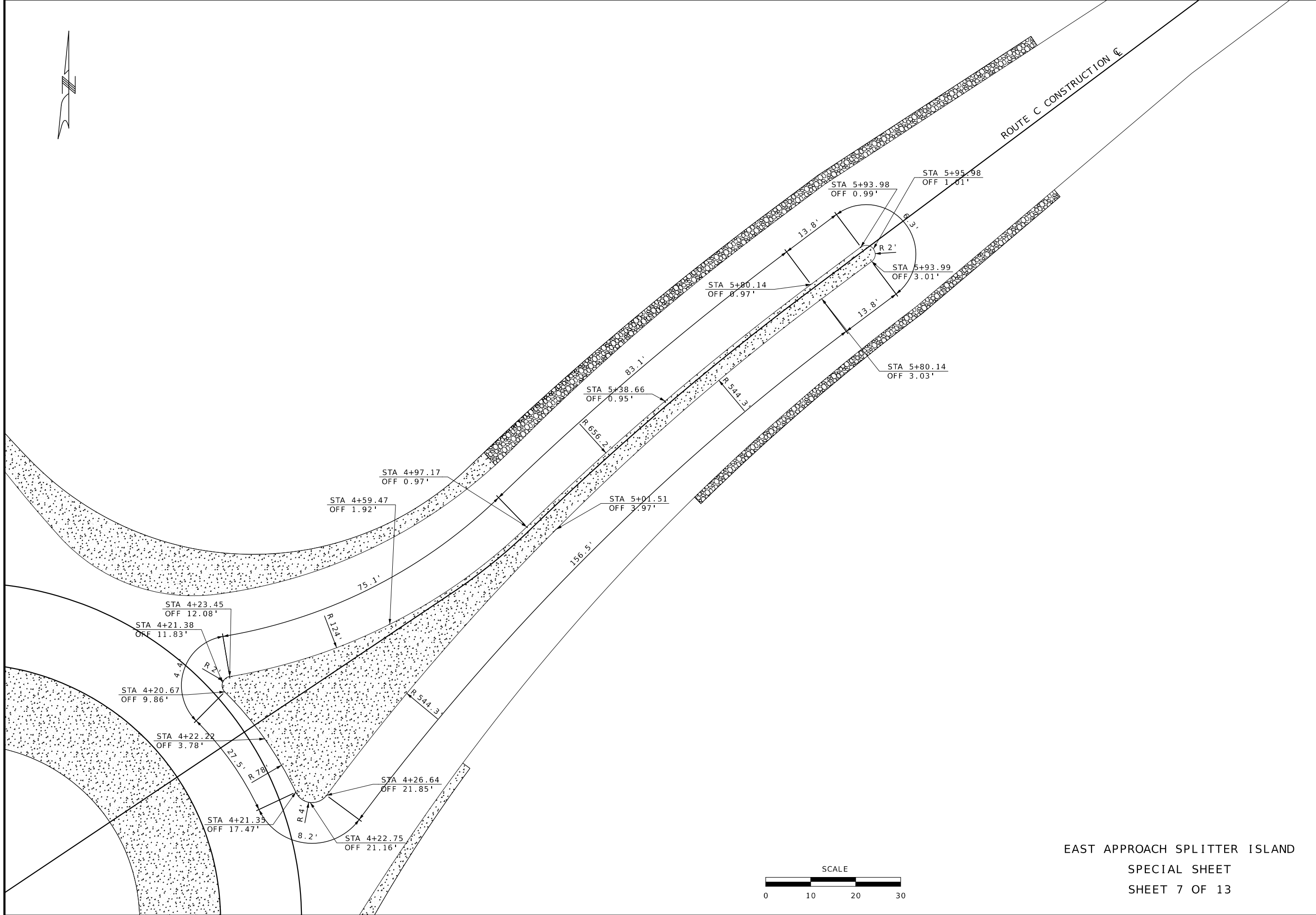
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

COMMISSION



WEST APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 6 OF 13



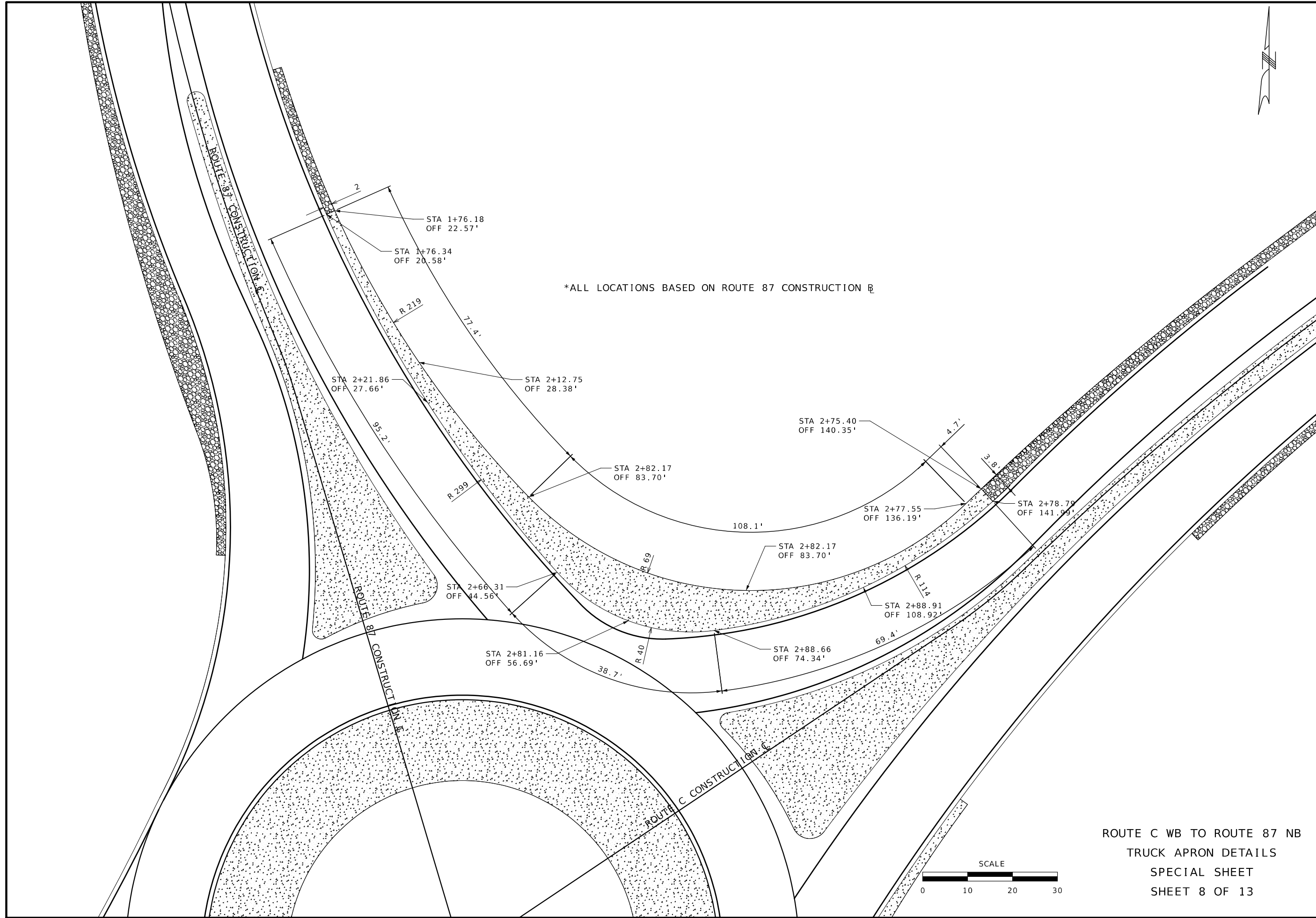
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 GREGORY G. LEARY - CIVIL  
 MISSOURI

11/5/2024	
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DISTRICT CD	SHEET NO. 16
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
 COMMISSION

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



\*ALL LOCATIONS BASED ON ROUTE 87 CONSTRUCTION B



11/08/2024 9:50:16 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED

11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 17

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

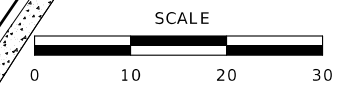
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

ROUTE C WB TO ROUTE 87 NB  
 TRUCK APRON DETAILS  
 SPECIAL SHEET  
 SHEET 8 OF 13





DATE PREPARED  
11/5/2024 9:50:02 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 18

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

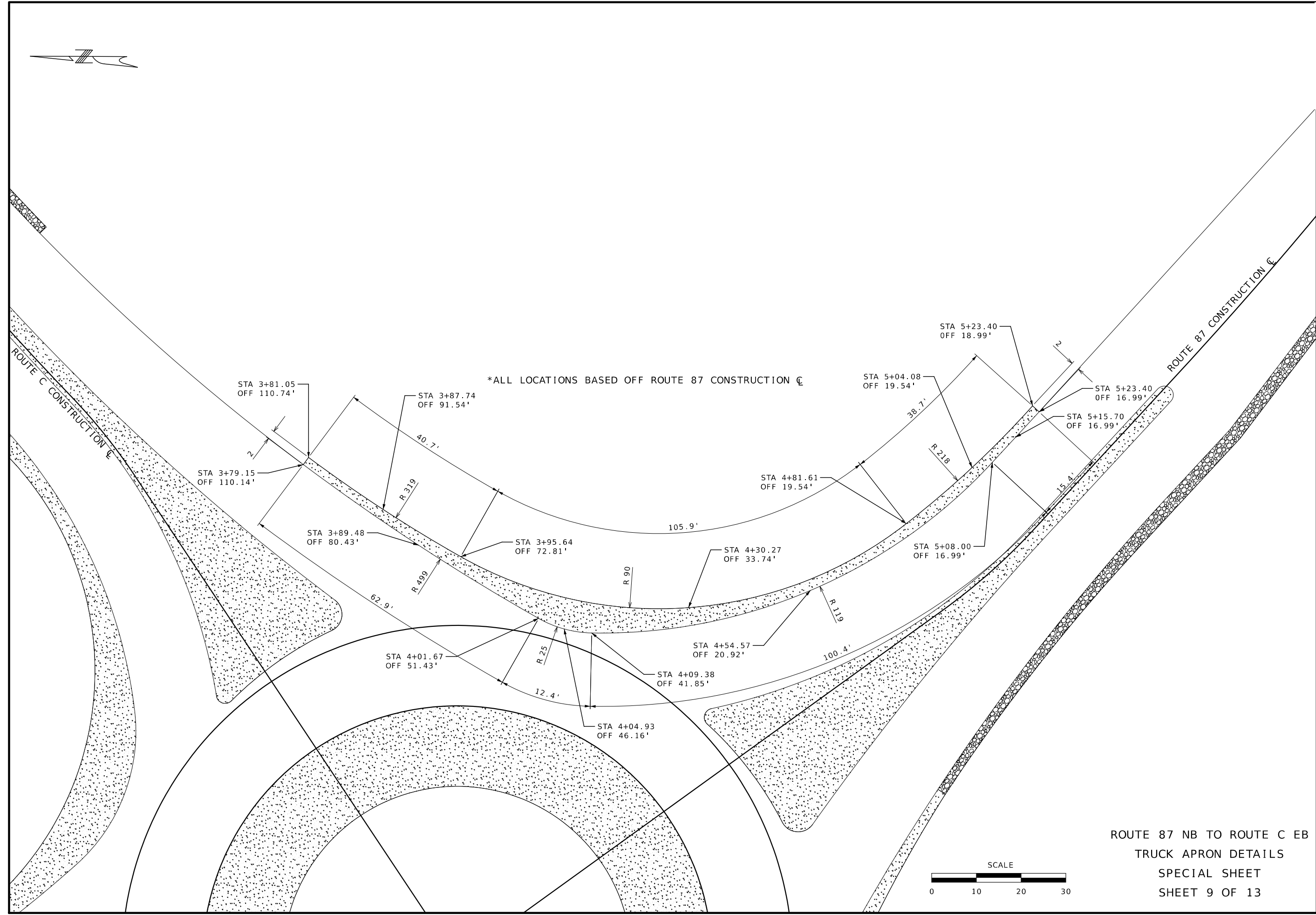
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

MoDOT

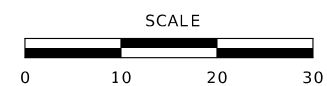
ROUTE 87 NB TO ROUTE C EB TRUCK APRON DETAILS

SPECIAL SHEET

SHEET 9 OF 13

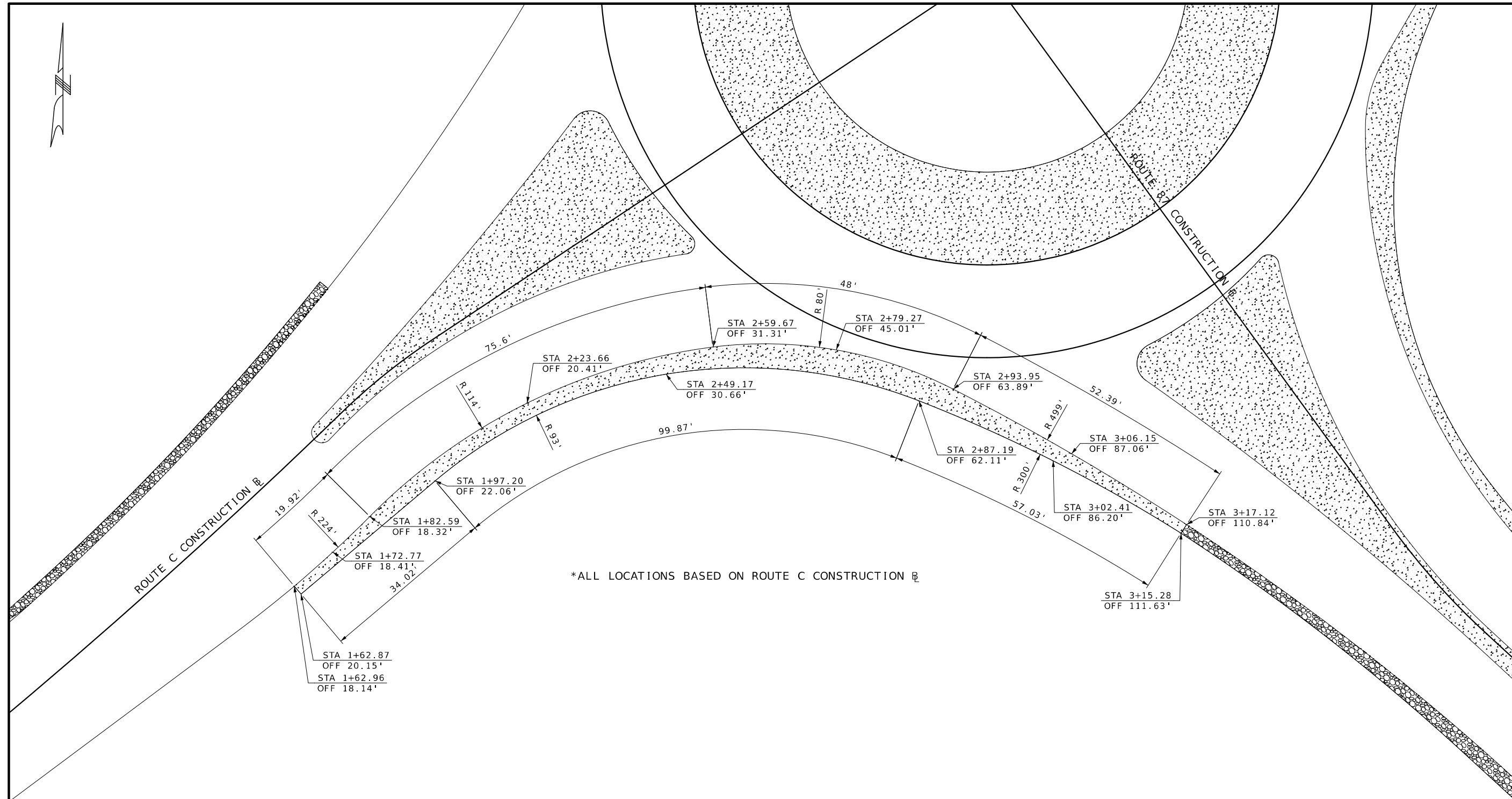


\*ALL LOCATIONS BASED OFF ROUTE 87 CONSTRUCTION C

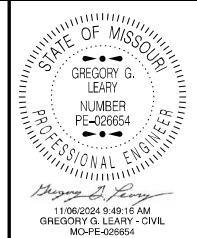


ROUTE 87 NB TO ROUTE C EB  
TRUCK APRON DETAILS  
SPECIAL SHEET  
SHEET 9 OF 13





\*ALL LOCATIONS BASED ON ROUTE C CONSTRUCTION B



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 19

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

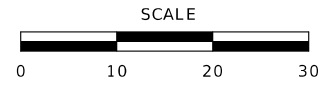
BRIDGE NO.

DATE	DESCRIPTION

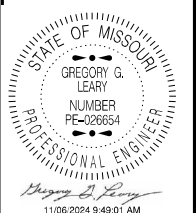
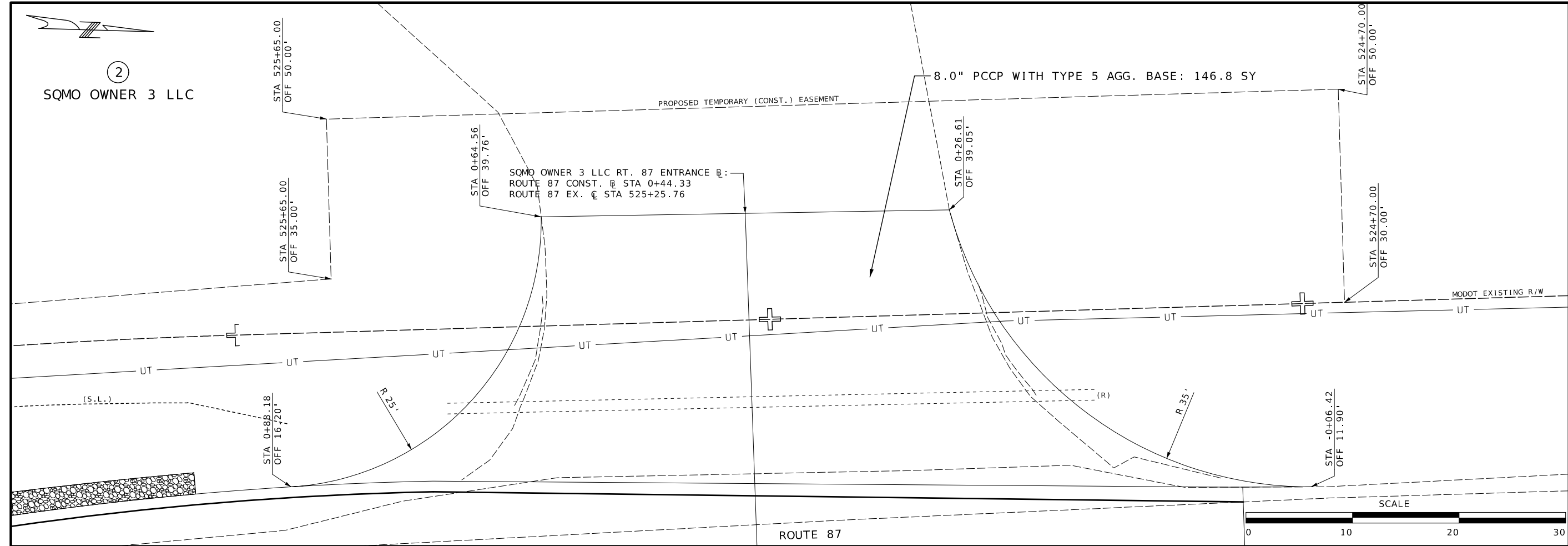
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



ROUTE C EB TO ROUTE 87 SB  
TRUCK APRON DETAILS  
SPECIAL SHEET  
SHEET 10 OF 13



②  
SQMO OWNER 3 LLC

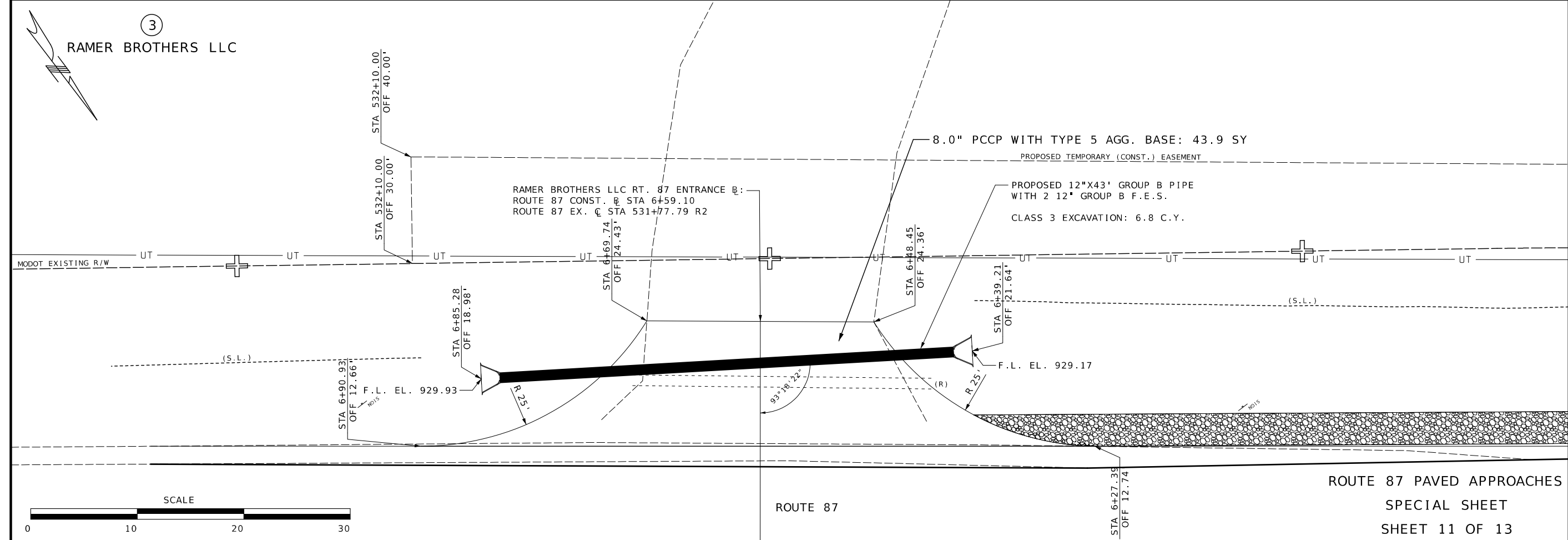


DATE PREPARED  
11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 20
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

③  
RAMER BROTHERS LLC

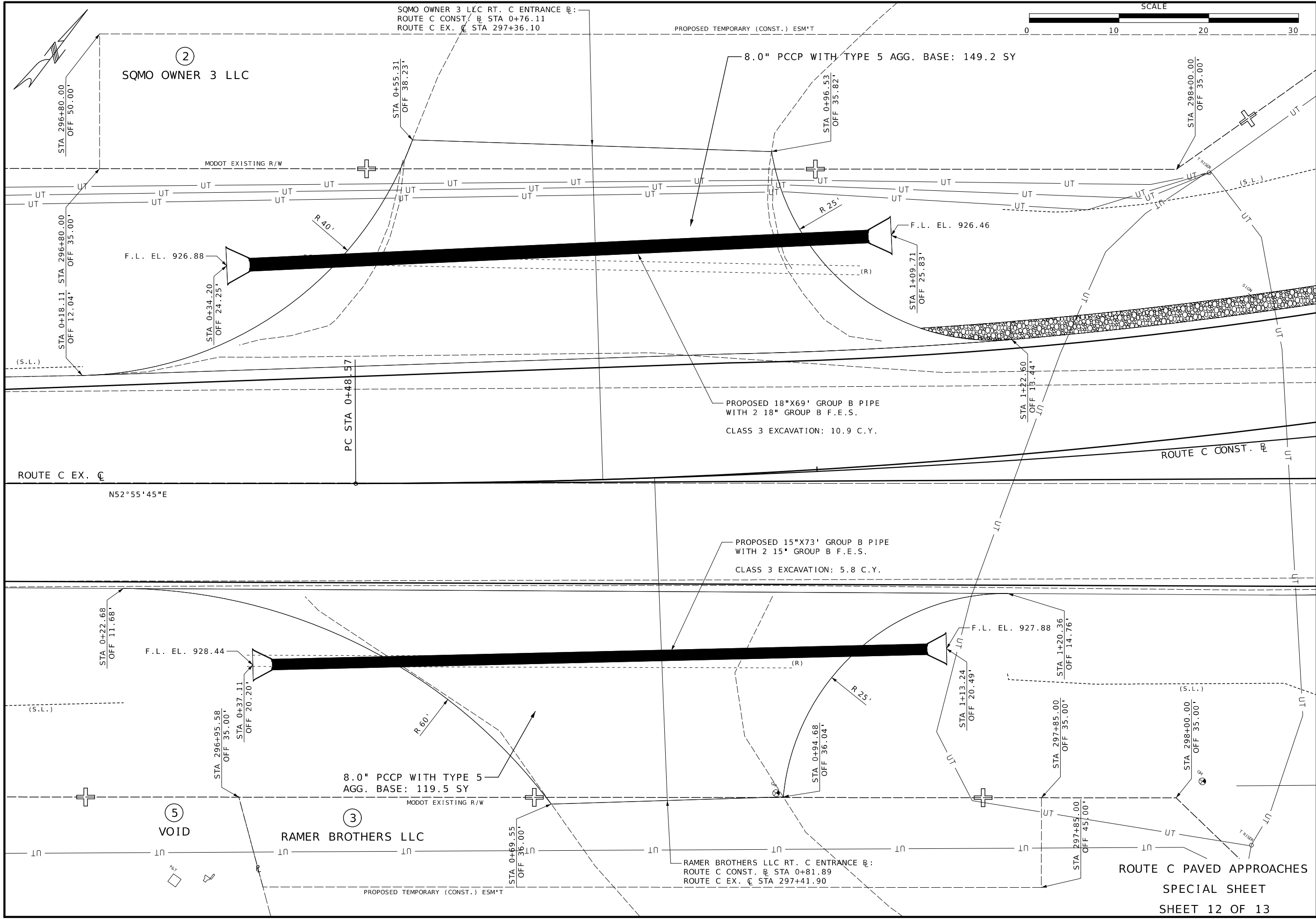


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)



ROUTE 87 PAVED APPROACHES  
SPECIAL SHEET  
SHEET 11 OF 13



11/05/2024 9:48:44 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-029564  
 DATE PREPARED  
 11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 21  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.

BRIDGE NO.	DESCRIPTION	DATE

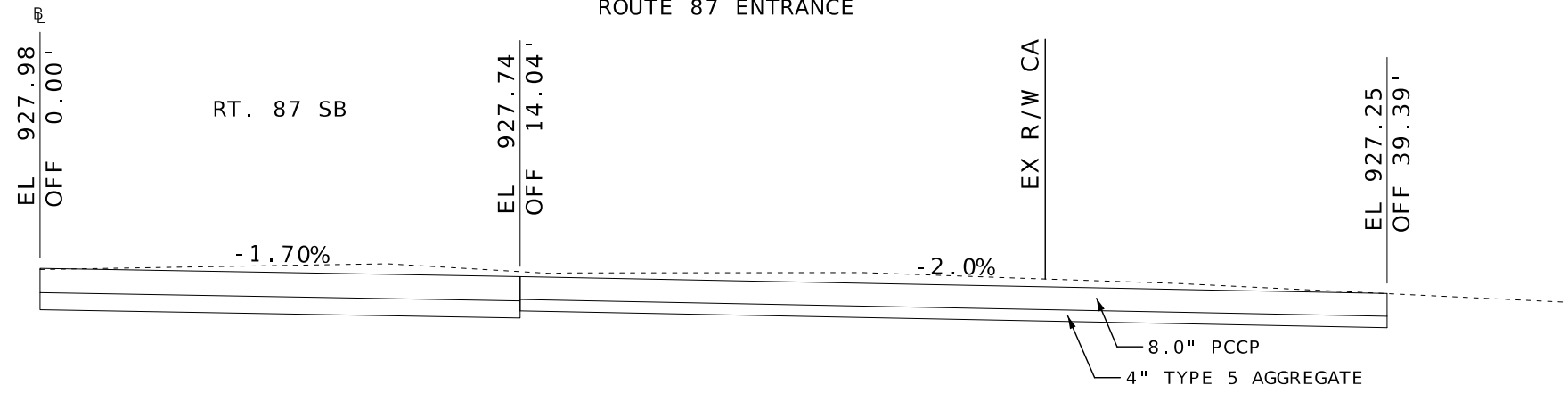
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



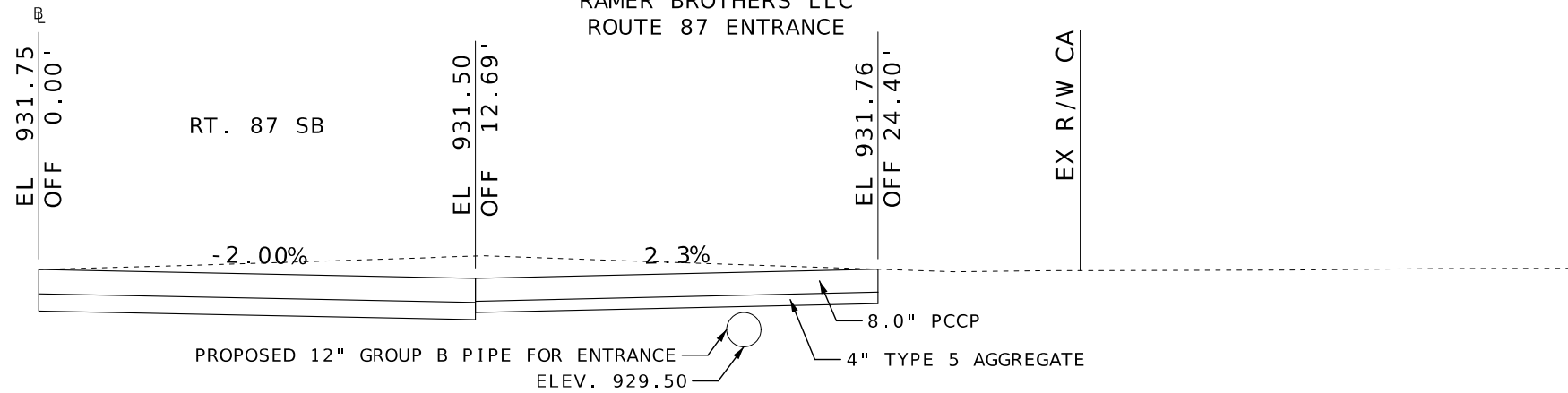
ROUTE C PAVED APPROACHES  
 SPECIAL SHEET  
 SHEET 12 OF 13

SQMO OWNER 3 LLC  
ROUTE 87 ENTRANCE



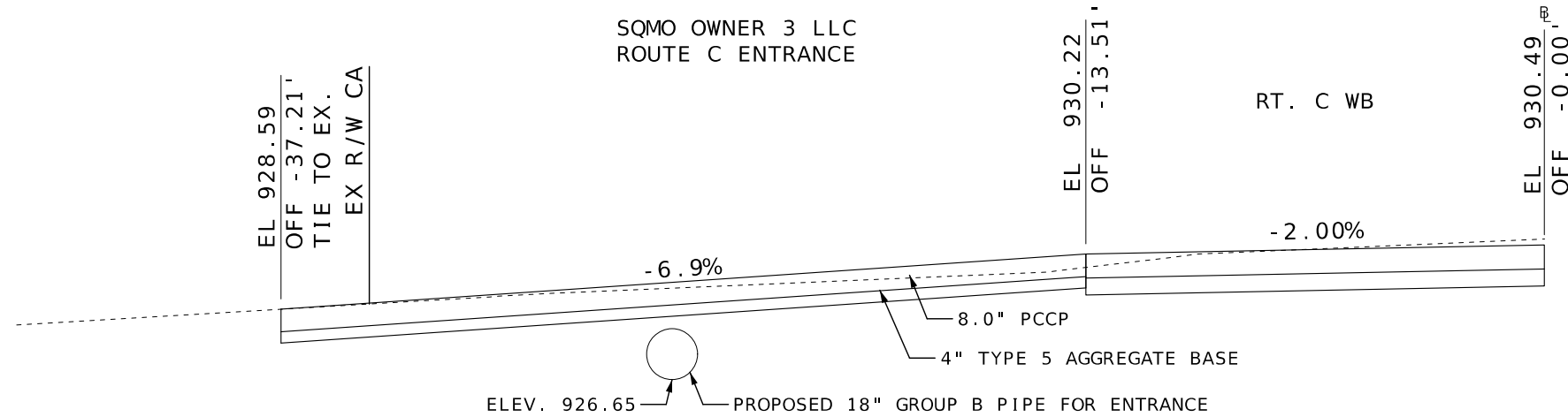
RT. 87 CONST. @ STA 0+44.33  
RT. 87 EX. @ STA 525+25.76

RAMER BROTHERS LLC  
ROUTE 87 ENTRANCE



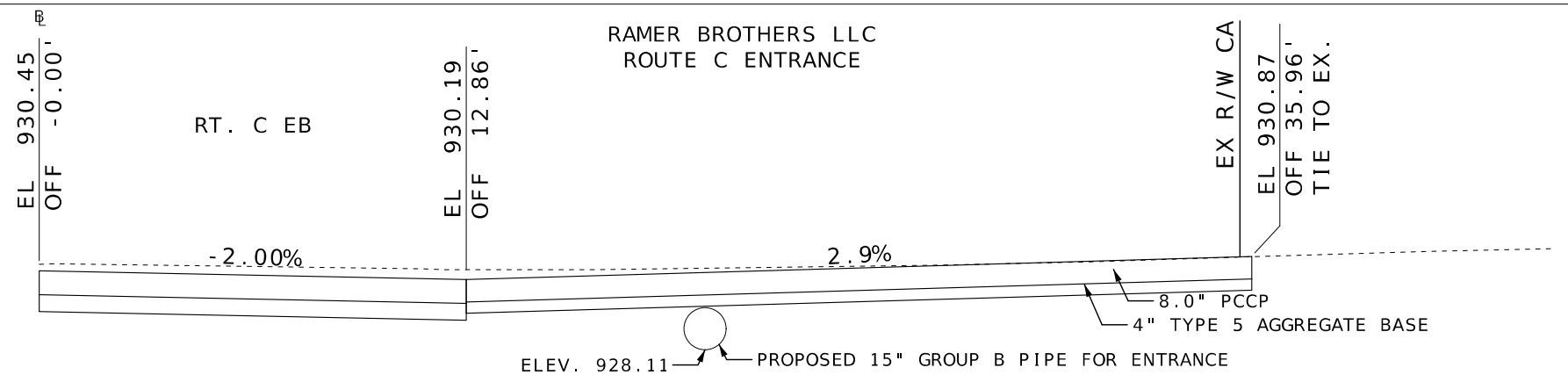
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RT. 87 EX. @ STA 531+77.79 R2

SQMO OWNER 3 LLC  
ROUTE C ENTRANCE



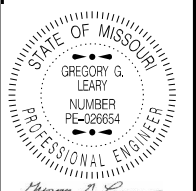
RT. C CONST. @ STA 0+76.11  
RT. C EX. @ STA 297+36.10

RAMER BROTHERS LLC  
ROUTE C ENTRANCE



RT. C CONST. @ STA 0+81.89  
RT. C EX. @ STA 297+41.90

PAVED APPROACH DETAILS  
SPECIAL SHEET  
SHEET 13 OF 13



11/06/2024 11:12:47 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 22
COUNTY MONITEAU	
JOB NO. JCD0113	
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)

**SPACING AND TAPER NOTES:**

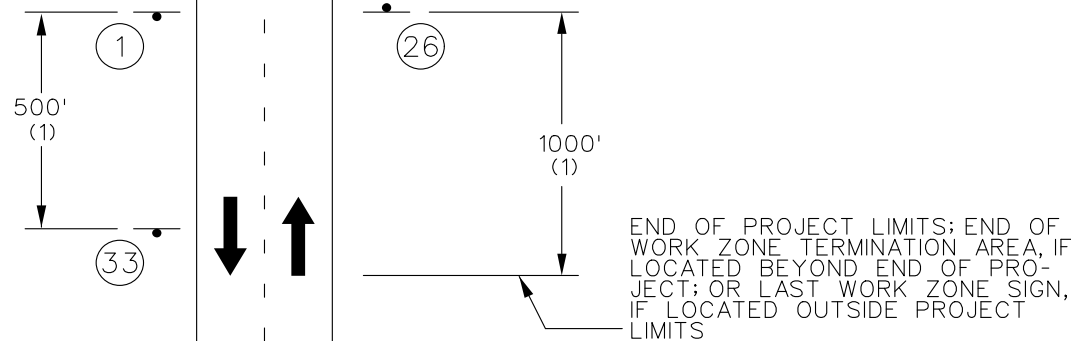
- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.

PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3) (T2)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER (T1)	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	400'	35'*	40'*
40-45	450'	495'	540'	150'	400'	40'*	80'*
50-55	550'	605'	660'	185'	560'	50'***	80'***
60-70	700'	770'	840'	235'	840'	60'***	120'***

\* SPACING REDUCED TO 1/2 AT INTERSECTIONS.  
 \*\*\* SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

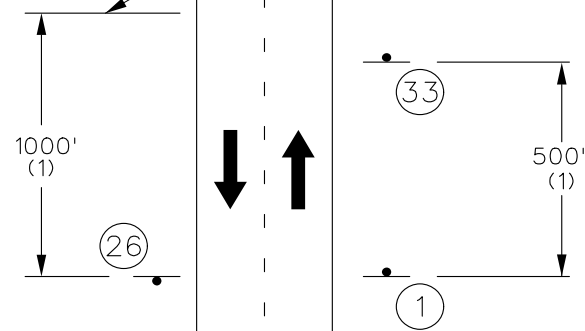
ROADWAY TYPE	SIGN HEIGHT	MAX. WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MILE
RURAL DIVIDED	1' PORTABLE 7' POST	2 MILE
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MILE

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



**Intersection Improvements**  
 Fall 2025

BEGINNING OF PROJECT LIMITS;  
 OR INITIAL WORK ZONE SIGN, IF  
 LOCATED OUTSIDE PROJECT LIMITS.



**WORK ZONE  
 NO PHONE ZONE**

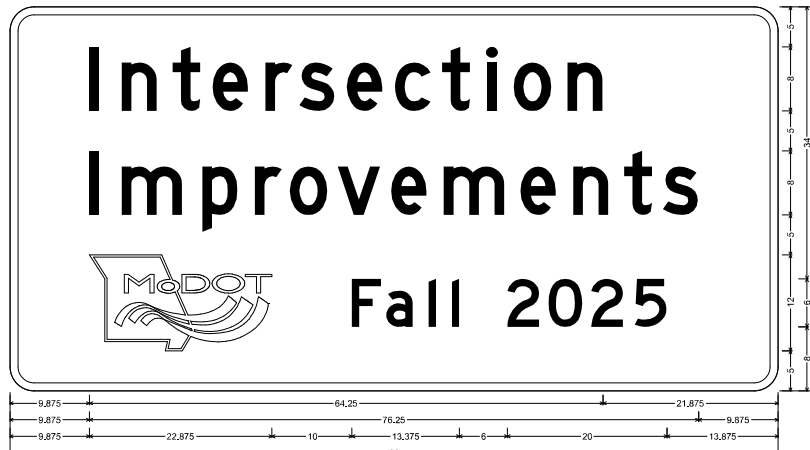
**ROAD WORK  
 NEXT 1 MILES**

**END  
 ROAD WORK**

**Completed as Promised**

CONST-60 SH-FLAT SHEET FLUORESCENT;  
 1,500' Radius, No border, Yellow;  
 \*Completed as Promised\* Black, D 65% spacing;  
 Table of letter and object letter

C	F	M	P	R	S	T	V	W	X	Z
1,500	4,875	7,875	12,375	15,375	18,375	21,500	24,250	29,000	31,875	
38,625	58,875	41,875	44,875	48,500	50,750	53,500	58,250			



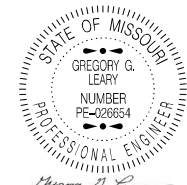
CONST-66 SH-FLAT SHEET;  
 3,000' Radius, 1,000' Border, White on Black;  
 \*Intersection\*, D: \*Improvements\*, D: \*Fall 2025\*, D:  
 Table of letter and object letter

C	F	M	P	R	S	T	V	W	X	Z
9,875	14,000	20,250	25,250	31,875	38,125	42,125	48,125	54,000	59,625	63,000
9,875	14,000	24,000	30,625	35,000	41,000	47,625	54,250	63,750	70,375	76,750
9,875	42,750	47,000	52,375	55,250	62,125	67,375	72,625	76,125		

- GENERAL NOTES:**
- TRAFFIC CONTROL DEVICE LOCATIONS MAY BE ADJUSTED AS APPROVED BY THE ENGINEER.
  - SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.
  - OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.
  - ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
  - ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.
  - CMS TO BE LOCATED AS APPROVED BY THE ENGINEER.
  - (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
  - (2) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.
  - (3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITION. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
  - (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

TWO-LANE UNDIVIDED  
 BEGIN/END OF PROJECT SIGNING  
 (FOR USE ON ALL PROJECTS)

BEGIN/END PROJECT SIGNING  
 TRAFFIC CONTROL SHEET  
 SHEET 1 OF 20



DATE PREPARED  
 11/5/2024

ROUTE  
 87

STATE  
 MO

DISTRICT  
 CD

SHEET NO.  
 23

COUNTY  
 MONITEAU

JOB NO.  
 JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

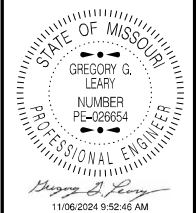
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

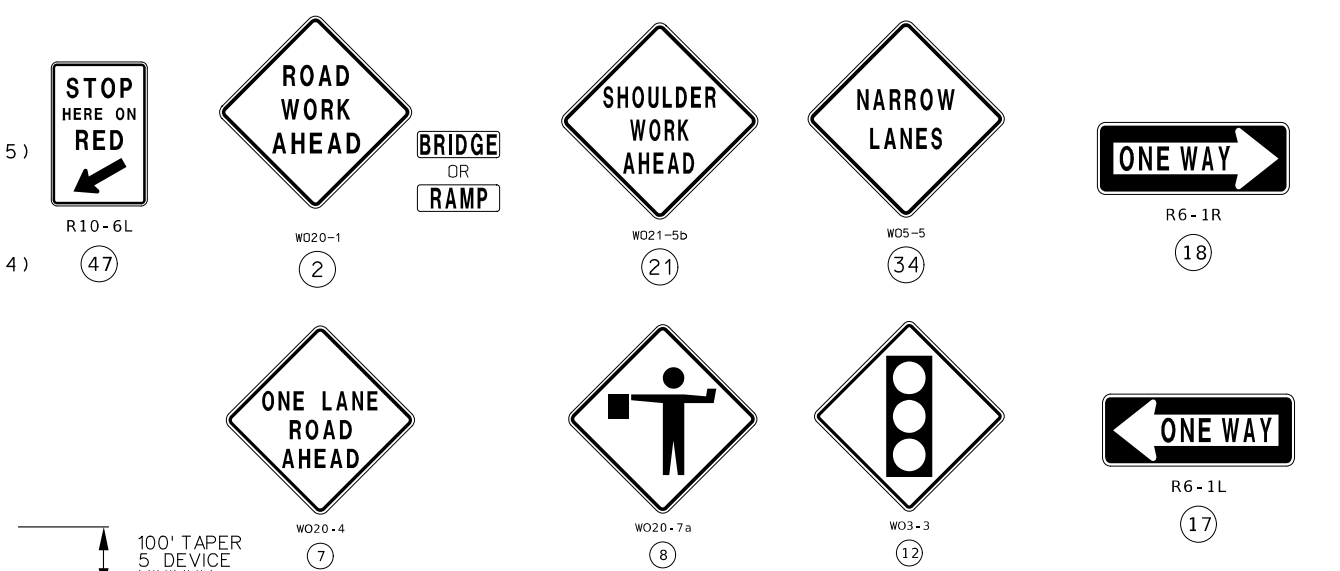
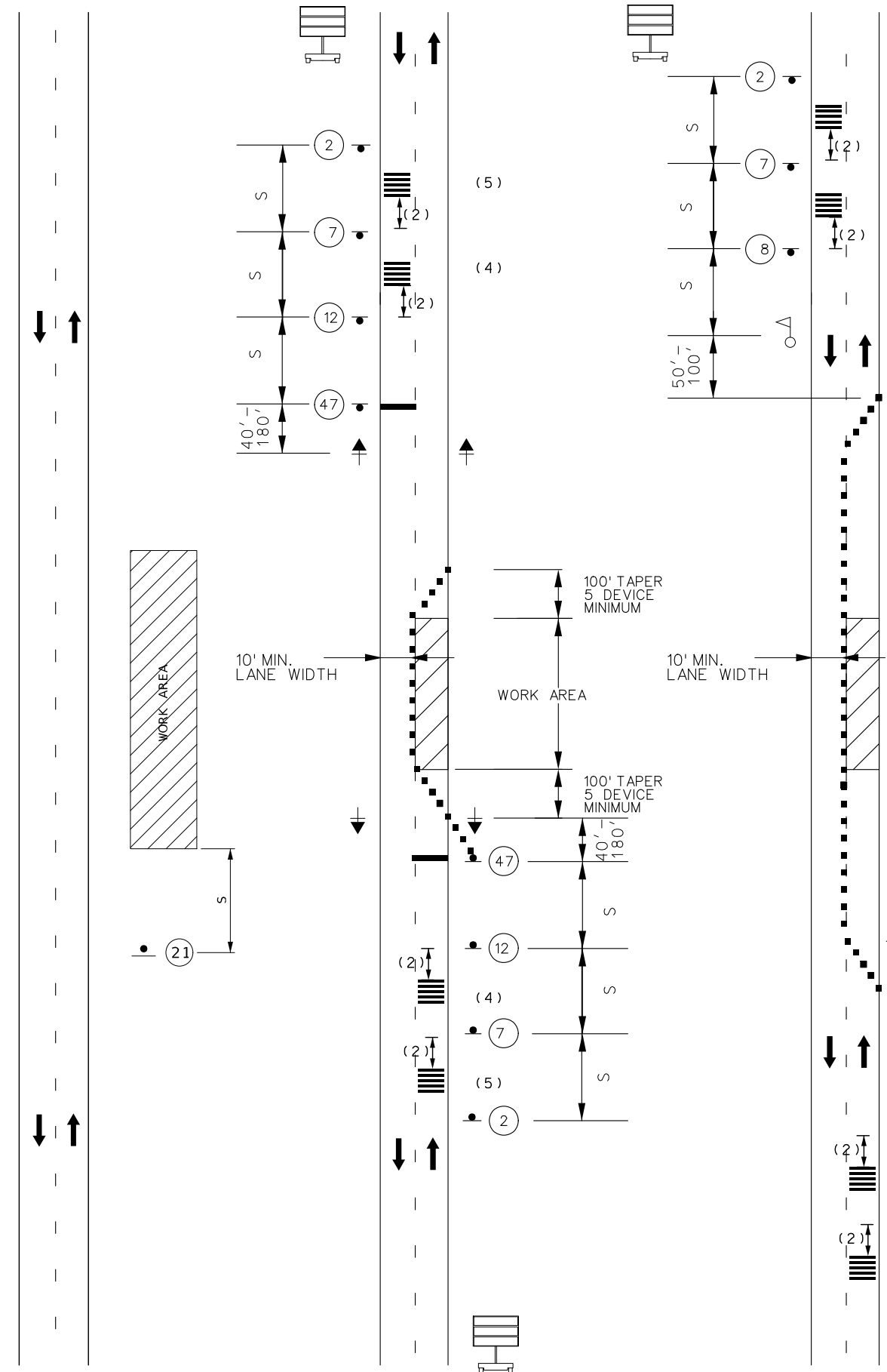
105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

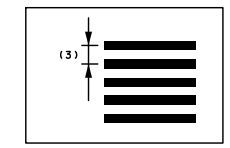


DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO DISTRICT CD SHEET NO. 24 COUNTY MONITEAU JOB NO. JCD0113 CONTRACT ID. PROJECT NO. BRIDGE NO.



**LONG-TERM RUMBLE STRIPS SPACING EXAMPLE**



LONG-TERM RUMBLE STRIPS		
SPEED	DISTANCE (2)	SPACING (3)
0-45 MPH	120 FT	10 FT
50-55 MPH	160 FT	15 FT
60-70 MPH	200 FT	20 FT

**NOTES:**

- SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.
- SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.
- THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.
- VEHICLE- MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBTSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
- SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
- LONG-TERM RUMBLE STRIPS SHALL BE ORANGE IN COLOR AND CONSIST OF 5 STRIPS.
- TWO SETS OF RUMBLE STRIPS (4) & (5) MAY BE USED SIMULTANEOUSLY OR ONE SET OF RUMBLE STRIPS MAY BE USED. IF ONE SET OF RUMBLE STRIPS ARE USED, THE PREFERRED PLACEMENT IS AT LOCATION (4)

LANE CLOSURE ONE LANE TWO WAY OPERATION WITH FLAGGERS,  
LANE CLOSURE ONE LANE OPERATION USING SIGNALS,  
AND WORK BEYOND THE SHOULDER

WORK BEYOND THE SHOULDER (UNDIVIDED OR DIVIDED HIGHWAY)

LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS (PHASE 2 - PHASE 7)

LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS (PHASE 1)

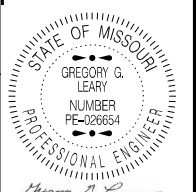
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

DESCRIPTION	DATE

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



NOTES:  
 - SIGN SERIES 1: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS  
 - ENSURE OPEN ACCESS TO ENTRANCES



DATE PREPARED  
 11/5/2024

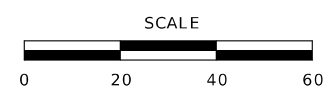
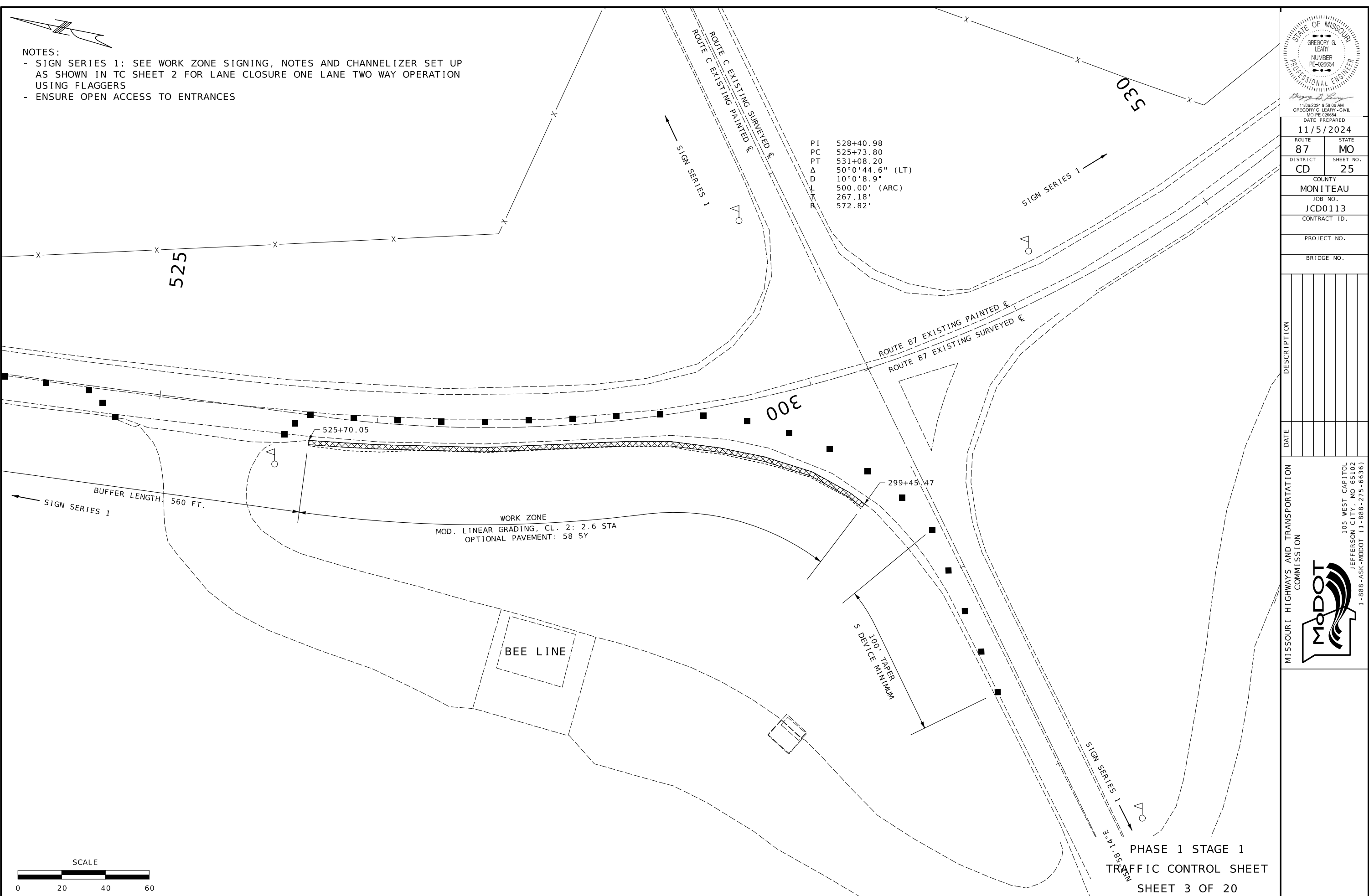
ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 25  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

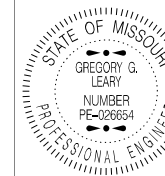
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

PI 528+40.98  
 PC 525+73.80  
 PT 531+08.20  
 Δ 50°0'44.6" (LT)  
 D 10°0'8.9"  
 L 500.00' (ARC)  
 T 267.18'  
 R 572.82'



PHASE 1 STAGE 1  
 TRAFFIC CONTROL SHEET  
 SHEET 3 OF 20

- NOTES:
- SIGN SERIES 1: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS
  - MAINTAIN OPEN ACCESS TO ENTRANCES



DATE PREPARED  
11/08/2024 9:57:54 AM  
GREGORY G. LEARY - CIVIL  
MOPE-226654

ROUTE  
87

STATE  
MO

DISTRICT  
CD

SHEET NO.  
26

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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DATE

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DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



535

530

300

531+61.97

MOD. LINEAR GRADING, CL. 2: 4.8 STA  
OPTIONAL PAVEMENT: 107 SY

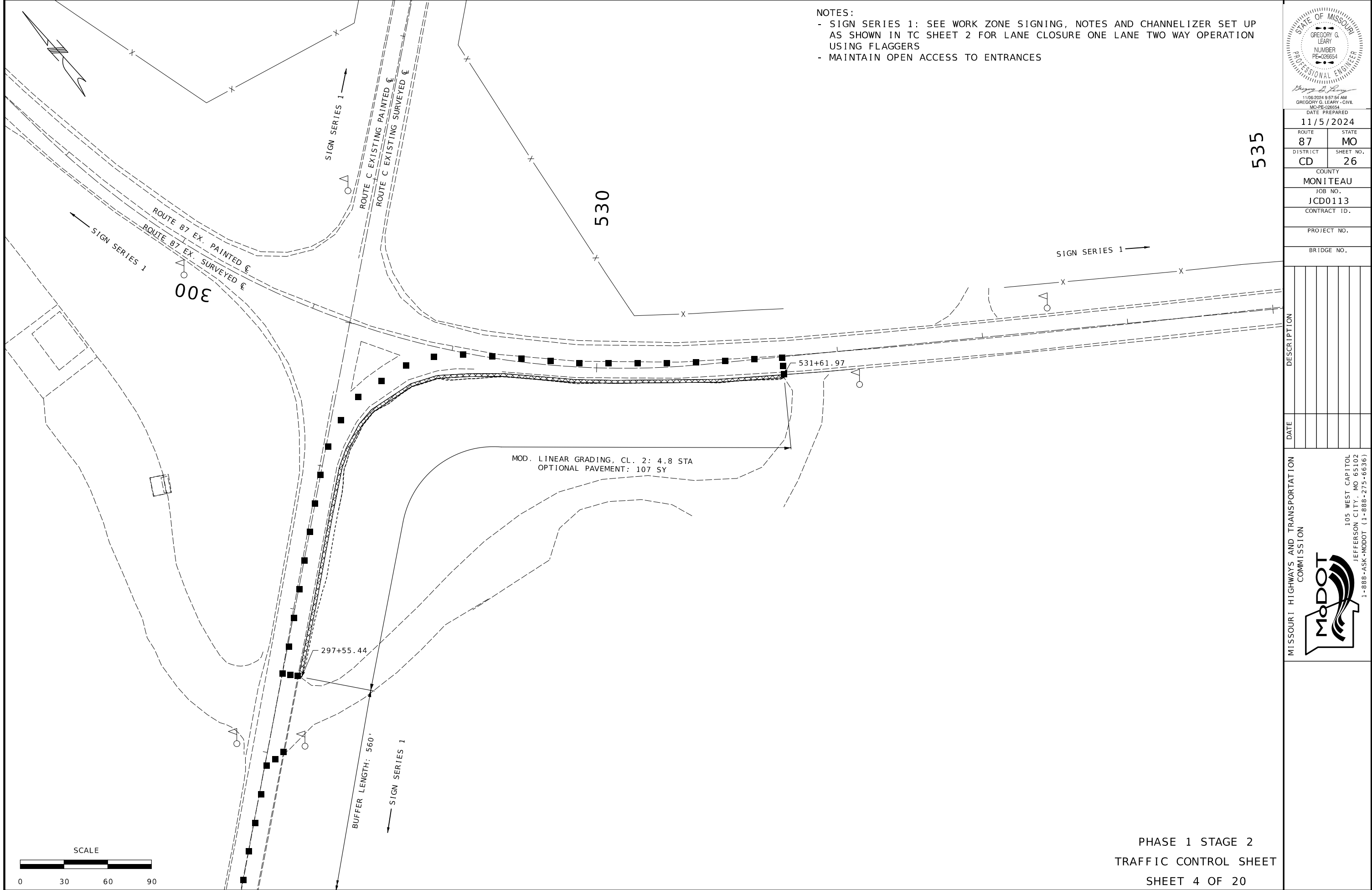
297+55.44

BUFFER LENGTH: 560'

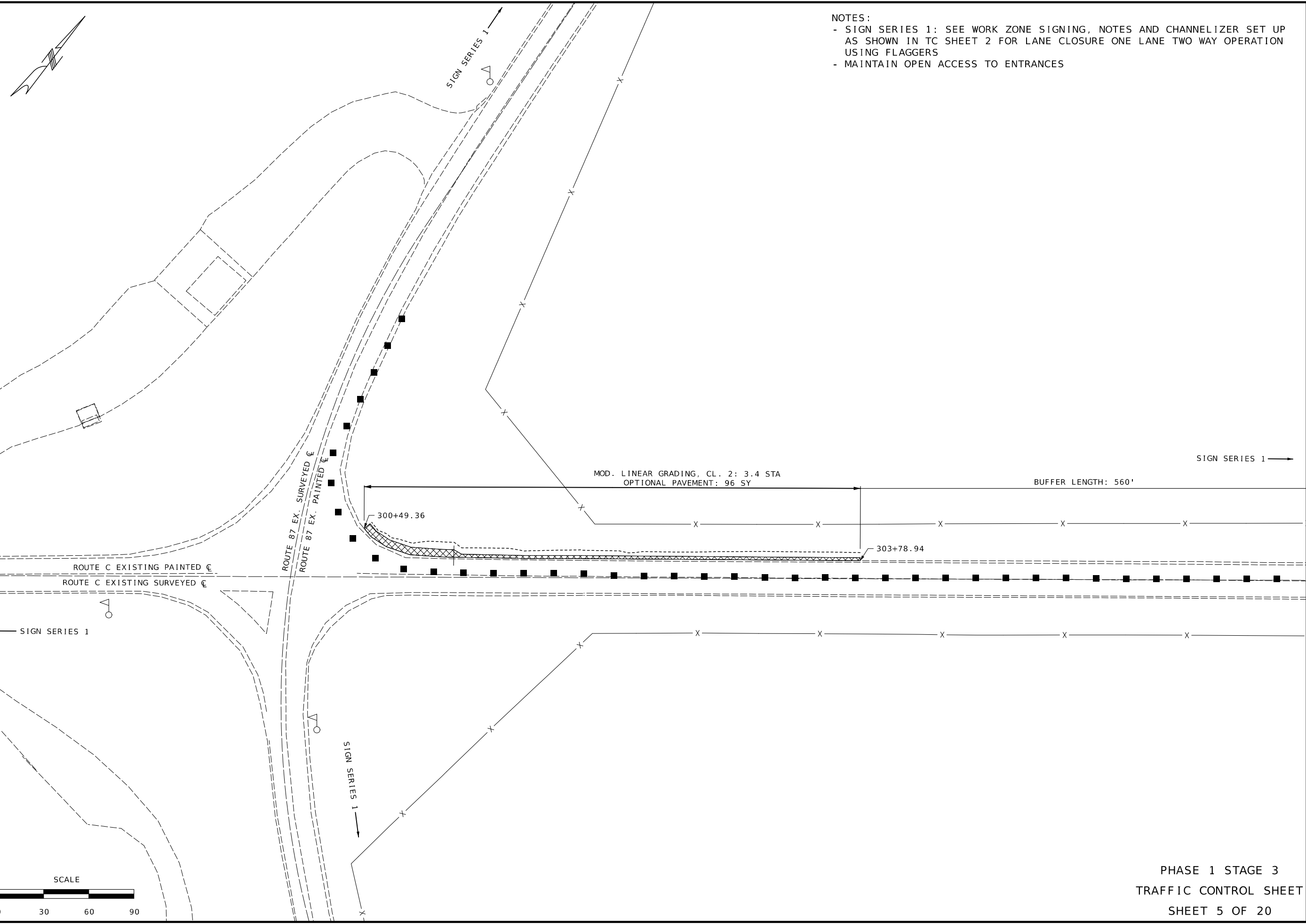
SCALE



PHASE 1 STAGE 2  
TRAFFIC CONTROL SHEET  
SHEET 4 OF 20







- NOTES:
- SIGN SERIES 1: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS
  - MAINTAIN OPEN ACCESS TO ENTRANCES


STATE OF MISSOURI  
 GREGORY G. LEARY  
 NUMBER PE-026654  
 PROFESSIONAL ENGINEER

11/05/2024 9:57:43 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED  
 11/5/2024

ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 27  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-273-6636)

TEMPORARY SIGNAL CONTROLLER, NORTH APPROACH AND WEST APPROACH SIGNAL



11/02/2024 9:57:16 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

DATE PREPARED  
11/5/2024

ROUTE STATE  
87 MO

DISTRICT SHEET NO.  
CD 28

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - INSTALL A TEMPORARY SIGNAL CONTROLLER OUTSIDE CONSTRUCTION SLOPE LIMITS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - REMOVE ENTRANCE SIGNALS WHILE PROPOSED PAVED APPROACHES ARE BEING CONSTRUCTED
  - SIGNALS ON ROUTE 87 AND ROUTE C INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE

BEE LINE

PORTABLE POLE WITH SIGNAL HEAD (PHASES 2 - 3)  
STA 527+00.00 OFF 15.25'

12' TEMPORARY STOP BAR (PHASES 2 - 3)  
526+60.00

STA 527+00.00 OFF 21.50'  
PORTABLE POLE WITH SIGNAL HEAD (PHASES 2 - 3)

EX. POWER FOR EX. SIGNAL  
STA 527+84.00 OFF 125.95'  
ROUTE 87 EX. €  
TEMPORARY SIGNAL CONTROLLER TO POWER SOURCE

PORTABLE POLE WITH SIGNAL HEAD (PHASES 2 - 5)  
STA 298+40.00 OFF 17.25'

12' TEMPORARY STOP BAR (PHASES 2 - 5)  
298+00.00

PORTABLE POLE WITH SIGNAL HEAD (PHASES 2 - 5)  
STA 298+40.00 OFF 15.50'

PORTABLE POLE WITH SIGNAL HEAD (IN PHASE WITH ROUTE C EAST APPROACH SIGNAL HEADS) (PHASE 7)

STA 297+70.00 OFF 16.50'

PORTABLE POLE WITH SIGNAL HEAD (IN PHASE WITH ROUTE C EAST APPROACH SIGNAL HEADS) (PHASE 6)

STA 297+60.00 OFF 18.40'

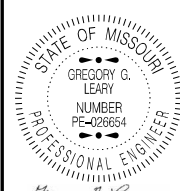
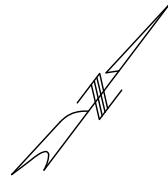
SCALE



RAMER BROTHER'S FURNITURE

TEMPORARY SIGNAL CONTROLLER, WEST APPROACH AND NORTH APPROACH SIGNAL INSTALLATION  
TRAFFIC CONTROL SHEET  
SHEET 6 OF 20

EAST APPROACH TEMPORARY SIGNAL DETAILS



11/05/2024 9:57:32 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654

11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 29

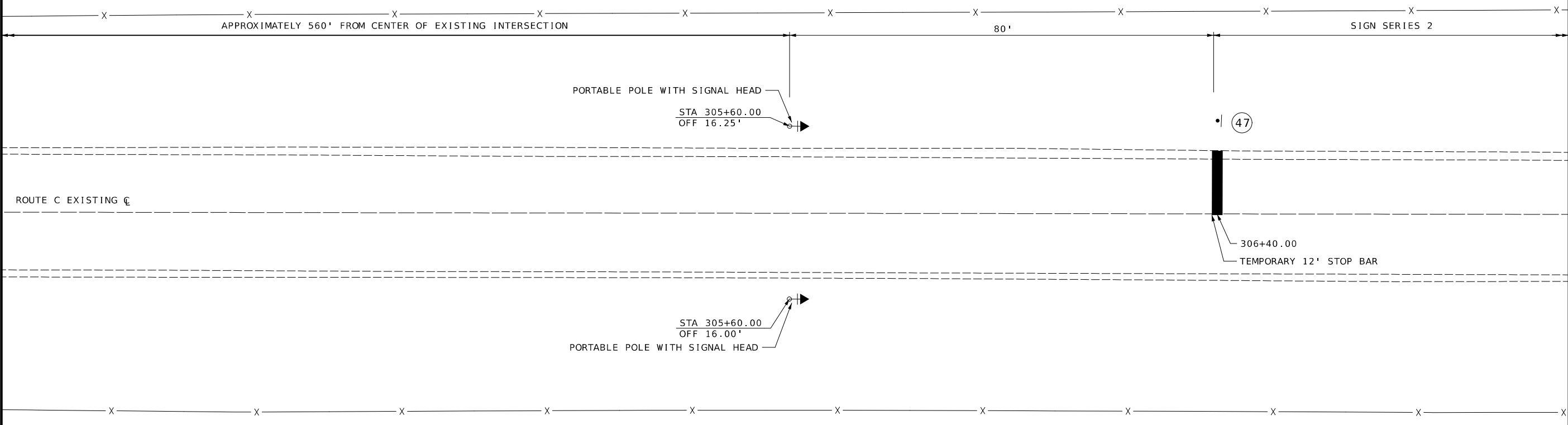
COUNTY MONITEAU

JOB NO. JCD0113

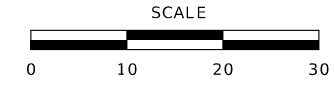
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - MAINLINE SIGNALS INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE



TEMPORARY SIGNAL  
 INSTALLATION EAST APPROACH  
 TRAFFIC CONTROL SHEET  
 SHEET 7 OF 20

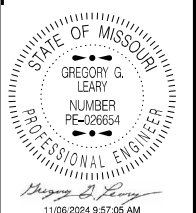
DATE	DESCRIPTION

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

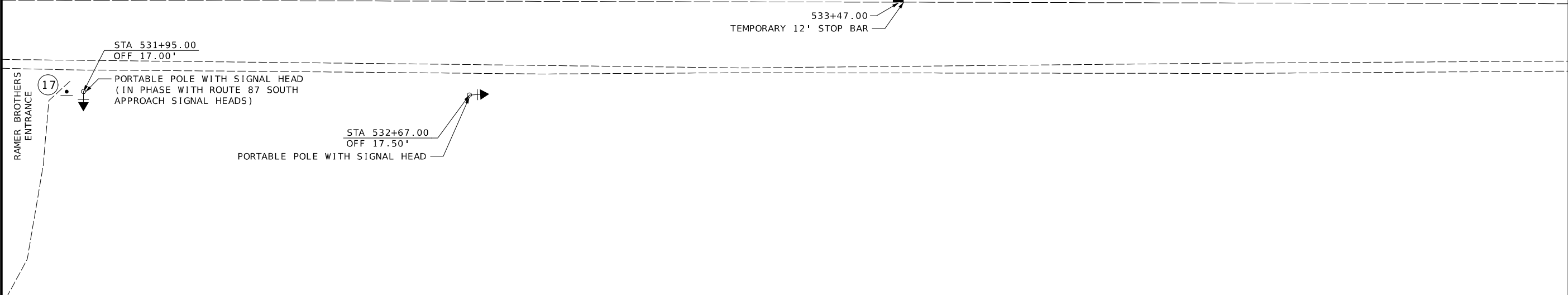
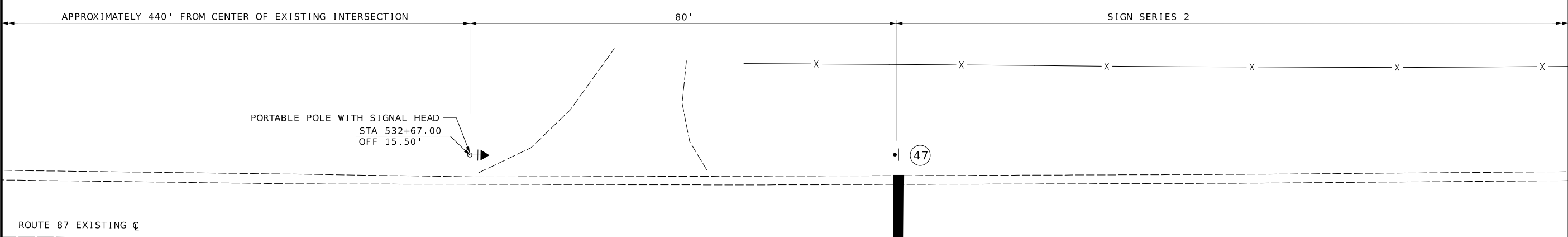
SOUTH APPROACH TEMPORARY SIGNAL DETAILS



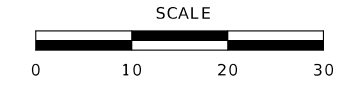
R6-1L  
17



DATE PREPARED	
11/5/2024	
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	30
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - REMOVE ENTRANCE SIGNAL WHILE PROPOSED PAVED APPROACHES ARE BEING CONSTRUCTED
  - MAINLINE SIGNALS INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE



TEMPORARY SIGNAL  
INSTALLATION SOUTH APPROACH  
TRAFFIC CONTROL SHEET  
SHEET 8 OF 20

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

NORTH APPROACH TEMPORARY SIGNAL DETAILS



R6-1R  
18



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 31

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

PHASE 4-5: 100' TAPER, 5 CHANNELIZERS TAPER AS SHOWN  
PHASE 6: MIRROR TAPER TO DIRECT TRAFFIC INTO ROUTE 87 NB LANE  
PHASE 7: NO CHANNELIZERS

PORTABLE POLE WITH SIGNAL HEAD  
STA 523+00.00  
OFF 16.25'

TEMPORARY 12' STOP BAR

522+60.00

ROUTE 87 EXISTING C

PORTABLE POLE WITH SIGNAL HEAD  
(IN PHASE WITH ROUTE 87 NORTH  
APPROACH SIGNAL HEADS)

STA 524+85.00  
OFF 15.50'

STA 523+00.00  
OFF 17.25'

PORTABLE POLE WITH SIGNAL HEAD

47

18

BEE LINE ENTRANCE

SIGN SERIES 2

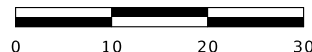
40'

APPROXIMATELY 530' FROM CENTER OF EXISTING INTERSECTION

NOTES:

- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
- ENSURE OPEN ACCESS TO ENTRANCES
- PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
- REMOVE ENTRANCE SIGNAL WHILE PROPOSED PAVED APPROACHES ARE BEING CONSTRUCTED
- MAINLINE SIGNALS INCLUDE LIGHTING
- LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
- STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE

SCALE



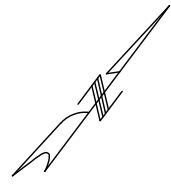
TEMPORARY SIGNAL  
INSTALLATION NORTH APPROACH  
(PHASE 4 - 7)  
TRAFFIC CONTROL SHEET  
SHEET 9 OF 20

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

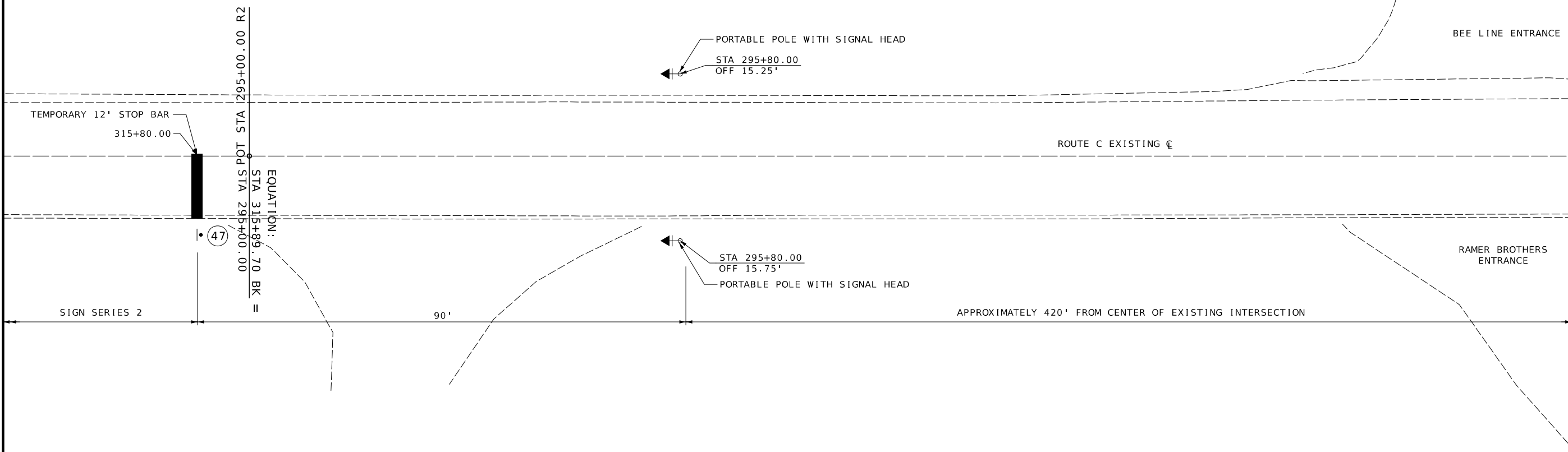
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

WEST APPROACH TEMPORARY SIGNAL DETAILS



11/06/2024 9:56:52 AM  
 GREGORY G. LEARY - CIVIL  
 MO PE 026654  
 DATE PREPARED

11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 32
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

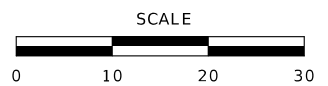


DATE	DESCRIPTION

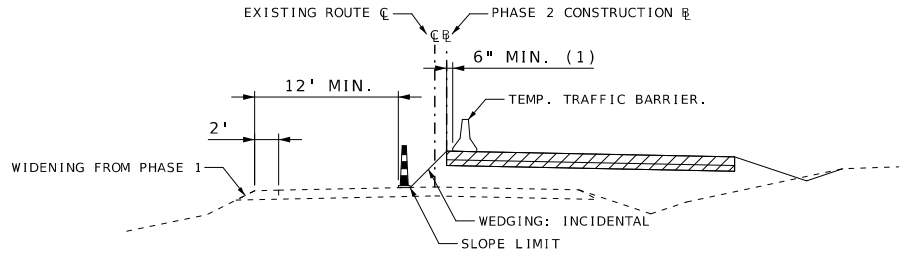
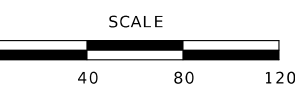
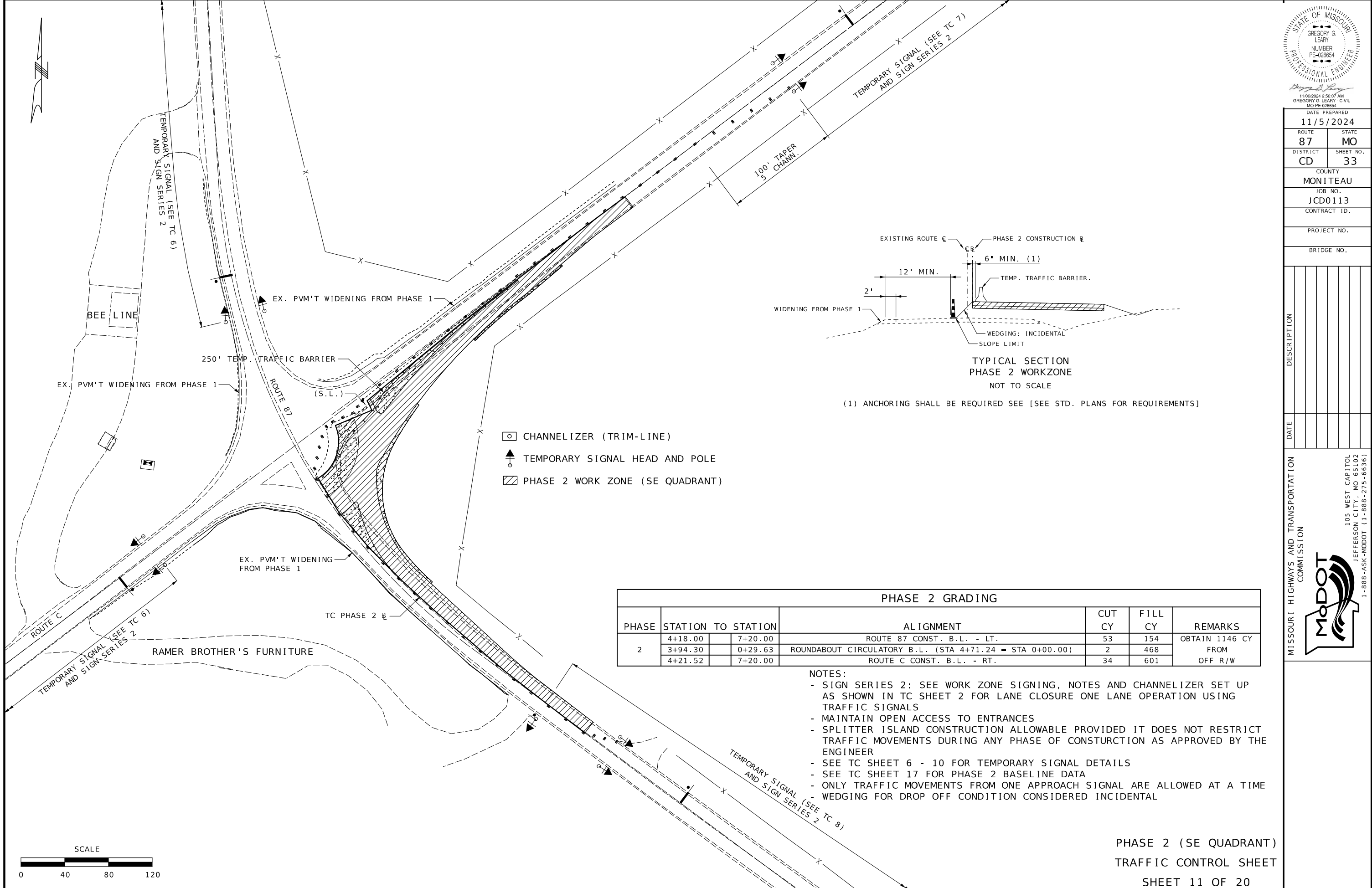
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - MAINLINE SIGNALS POLES INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE



TEMPORARY SIGNAL  
 INSTALLATION WEST APPROACH  
 (PHASE 6 - 7)  
 TRAFFIC CONTROL SHEET  
 SHEET 10 OF 20

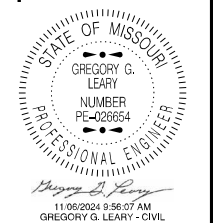


TYPICAL SECTION  
PHASE 2 WORKZONE  
NOT TO SCALE  
(1) ANCHORING SHALL BE REQUIRED SEE [SEE STD. PLANS FOR REQUIREMENTS]

- CHANNELIZER (TRIM-LINE)
- ▲ TEMPORARY SIGNAL HEAD AND POLE
- ▨ PHASE 2 WORK ZONE (SE QUADRANT)

PHASE 2 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
2	4+18.00	7+20.00	ROUTE 87 CONST. B.L. - LT.	53	154	OBTAIN 1146 CY FROM OFF R/W
	3+94.30	0+29.63	ROUNDAABOUT CIRCULATORY B.L. (STA 4+71.24 = STA 0+00.00)	2	468	
	4+21.52	7+20.00	ROUTE C CONST. B.L. - RT.	34	601	

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 17 FOR PHASE 2 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL

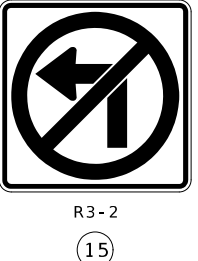
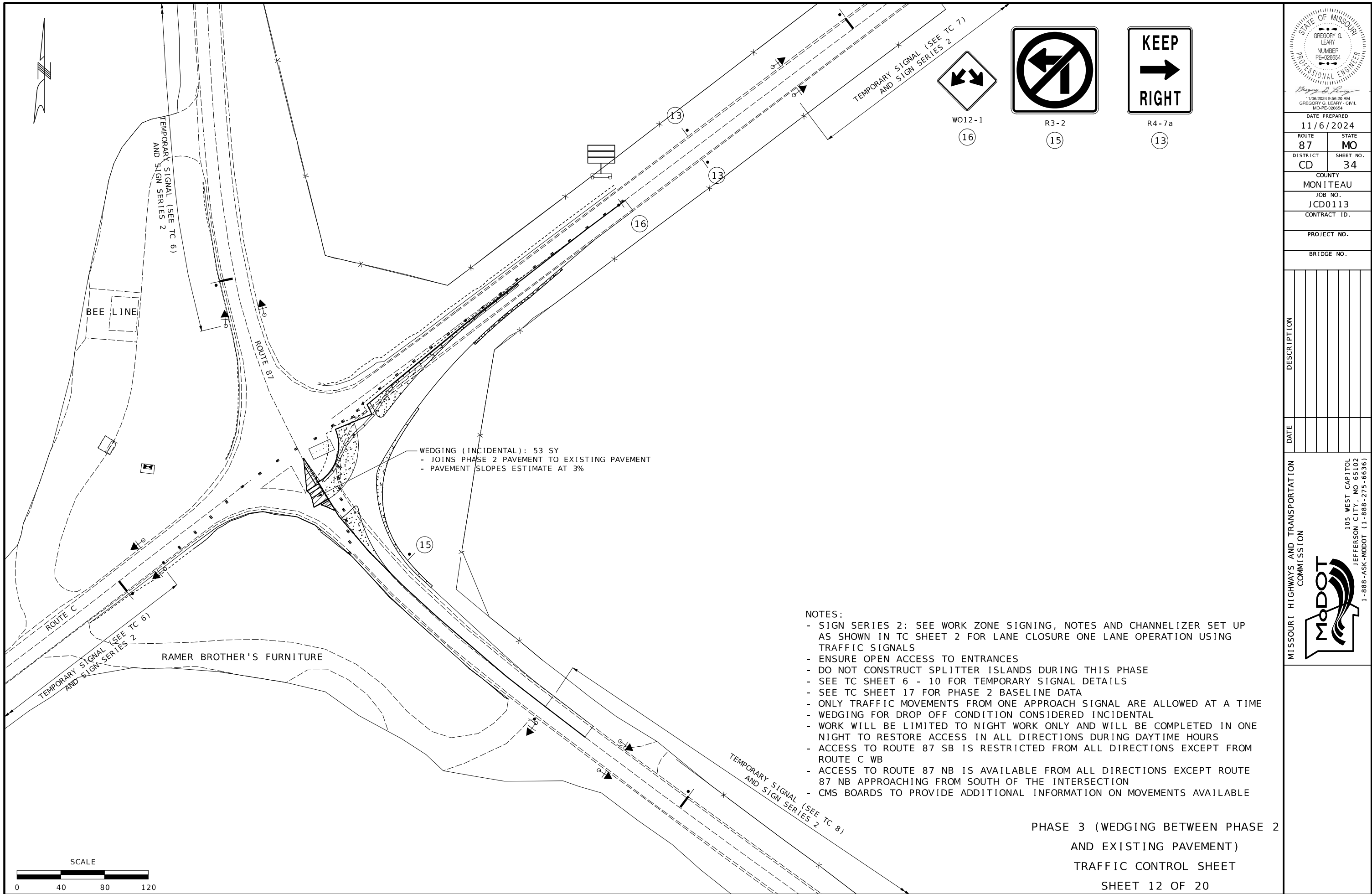


DATE PREPARED	11/5/2024
ROUTE	87
STATE	MO
DISTRICT	CD
SHEET NO.	33
COUNTY	MONITEAU
JOB NO.	JCD0113
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

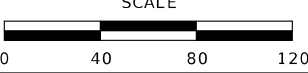
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - DO NOT CONSTRUCT SPLITTER ISLANDS DURING THIS PHASE
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 17 FOR PHASE 2 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL
  - WORK WILL BE LIMITED TO NIGHT WORK ONLY AND WILL BE COMPLETED IN ONE NIGHT TO RESTORE ACCESS IN ALL DIRECTIONS DURING DAYTIME HOURS
  - ACCESS TO ROUTE 87 SB IS RESTRICTED FROM ALL DIRECTIONS EXCEPT FROM ROUTE C WB
  - ACCESS TO ROUTE 87 NB IS AVAILABLE FROM ALL DIRECTIONS EXCEPT ROUTE 87 NB APPROACHING FROM SOUTH OF THE INTERSECTION
  - CMS BOARDS TO PROVIDE ADDITIONAL INFORMATION ON MOVEMENTS AVAILABLE

PHASE 3 (WEDGING BETWEEN PHASE 2 AND EXISTING PAVEMENT)  
 TRAFFIC CONTROL SHEET  
 SHEET 12 OF 20



STATE OF MISSOURI  
 GREGORY G. LEARY  
 NUMBER PE-026654  
 PROFESSIONAL ENGINEER  
 11/05/2024 9:58:20 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654

DATE PREPARED 11/6/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 34
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

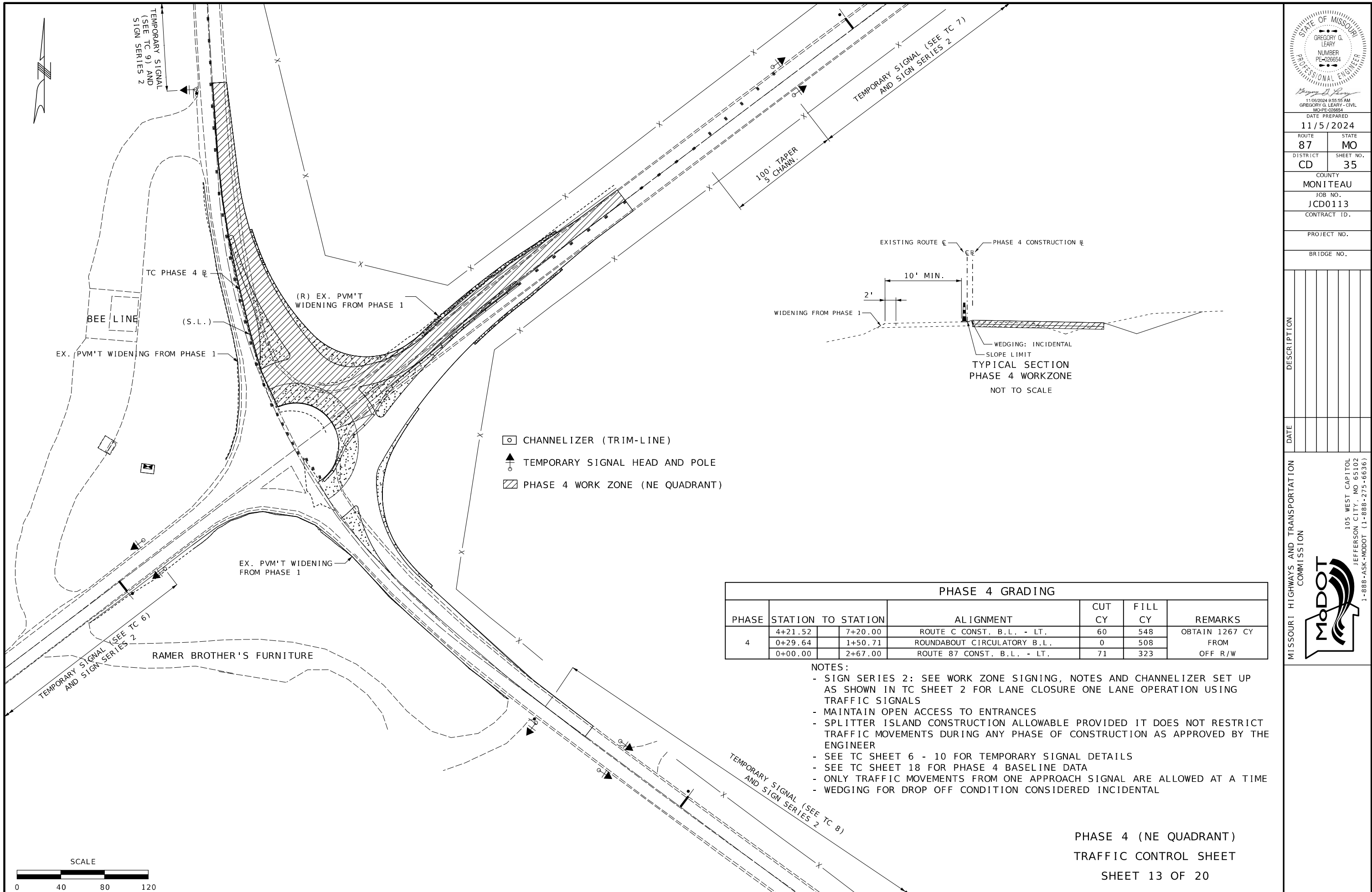
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.

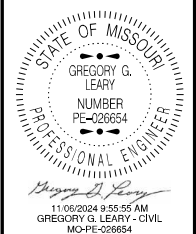




PHASE 4 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
4	4+21.52	7+20.00	ROUTE C CONST. B.L. - LT.	60	548	OBTAIN 1267 CY FROM OFF R/W
	0+29.64	1+50.71	ROUNDAABOUT CIRCULATORY B.L.	0	508	
	0+00.00	2+67.00	ROUTE 87 CONST. B.L. - LT.	71	323	

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 18 FOR PHASE 4 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL

PHASE 4 (NE QUADRANT)  
 TRAFFIC CONTROL SHEET  
 SHEET 13 OF 20

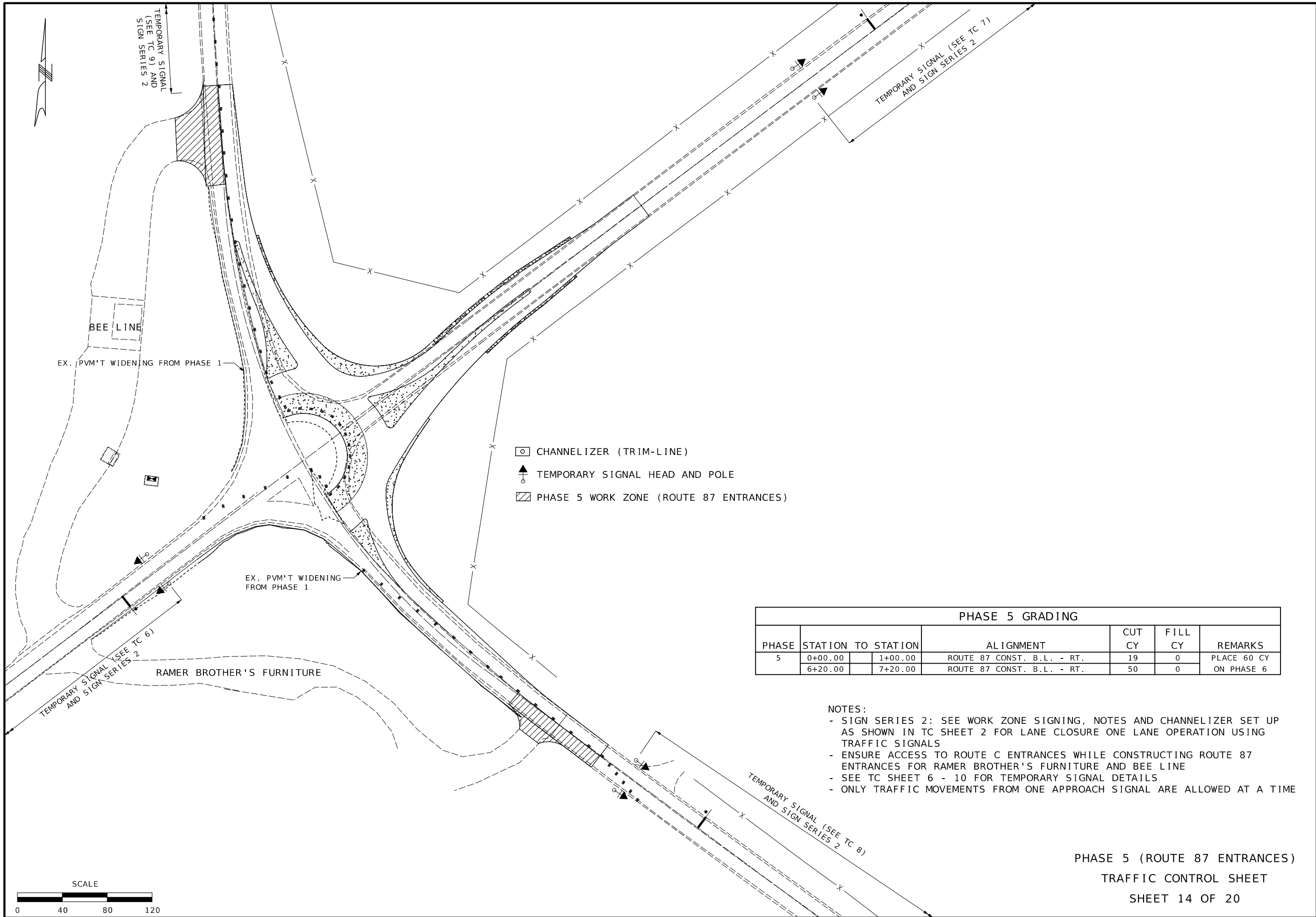


DATE PREPARED  
 11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 35  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



- CHANNELIZER (TRIM-LINE)
- TEMPORARY SIGNAL HEAD AND POLE
- PHASE 5 WORK ZONE (ROUTE 87 ENTRANCES)

PHASE 5 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
5	0+00.00	1+00.00	ROUTE 87 CONST. B.L. - RT.	19	0	PLACE 60 CY
	6+20.00	7+20.00	ROUTE 87 CONST. B.L. - RT.	50	0	ON PHASE 6

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE ACCESS TO ROUTE C ENTRANCES WHILE CONSTRUCTING ROUTE 87 ENTRANCES FOR RAMER BROTHER'S FURNITURE AND BEE LINE
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME

PHASE 5 (ROUTE 87 ENTRANCES)  
 TRAFFIC CONTROL SHEET  
 SHEET 14 OF 20



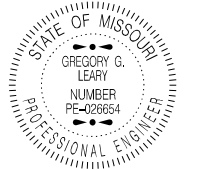
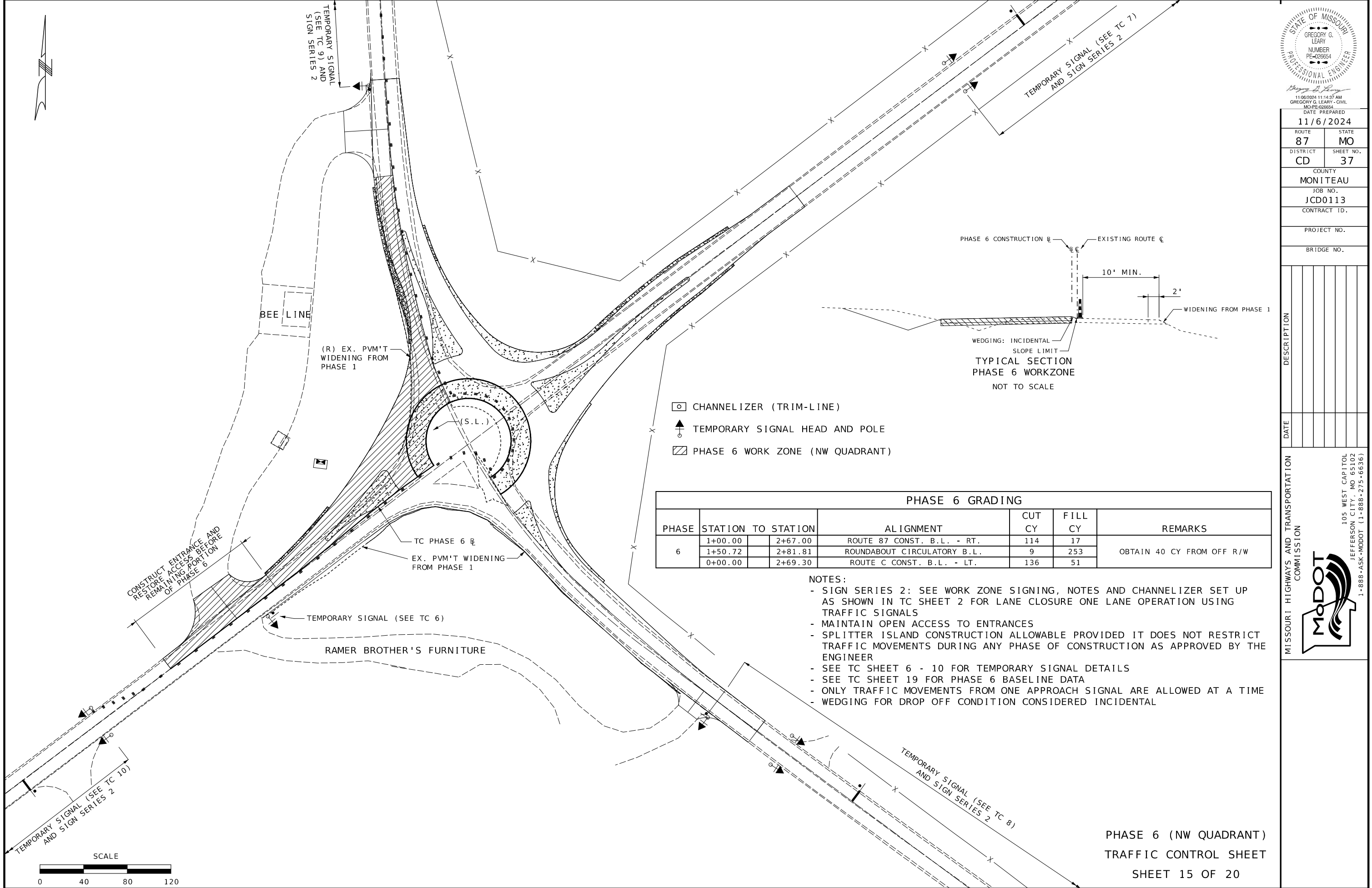
11/05/2024 9:59:30 AM  
 GREGORY G. LEARY - CIVIL  
 MOPE-026654  
 DATE PREPARED

ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 36  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 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)





11/06/2024 11:14:37 AM  
 GREGORY G. LEARY - CIVIL  
 MO-FE-269654

DATE PREPARED		11/6/2024	
ROUTE	STATE	87	MO
DISTRICT	SHEET NO.	CD	37
COUNTY			
MONITEAU			
JOB NO.			
JCD0113			
CONTRACT ID.			

PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
 COMMISSION

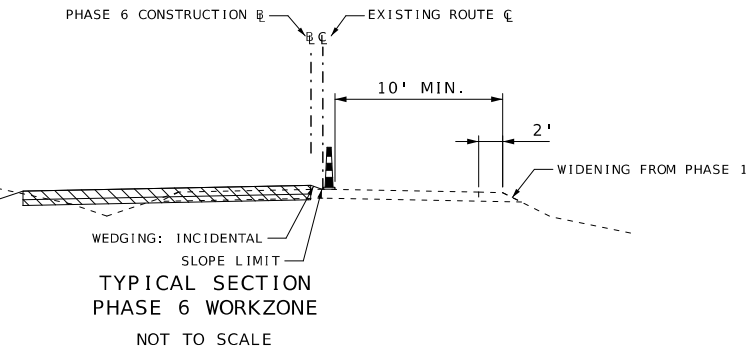
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

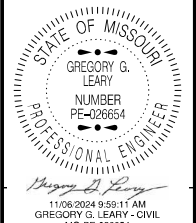


- CHANNELIZER (TRIM-LINE)
- TEMPORARY SIGNAL HEAD AND POLE
- PHASE 6 WORK ZONE (NW QUADRANT)

PHASE 6 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
6	1+00.00	2+67.00	ROUTE 87 CONST. B.L. - RT.	114	17	OBTAIN 40 CY FROM OFF R/W
	1+50.72	2+81.81	ROUNDAABOUT CIRCULATORY B.L.	9	253	
	0+00.00	2+69.30	ROUTE C CONST. B.L. - LT.	136	51	

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 19 FOR PHASE 6 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL





DATE PREPARED  
11/5/2024

ROUTE STATE  
87 MO

DISTRICT SHEET NO.  
CD 38

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

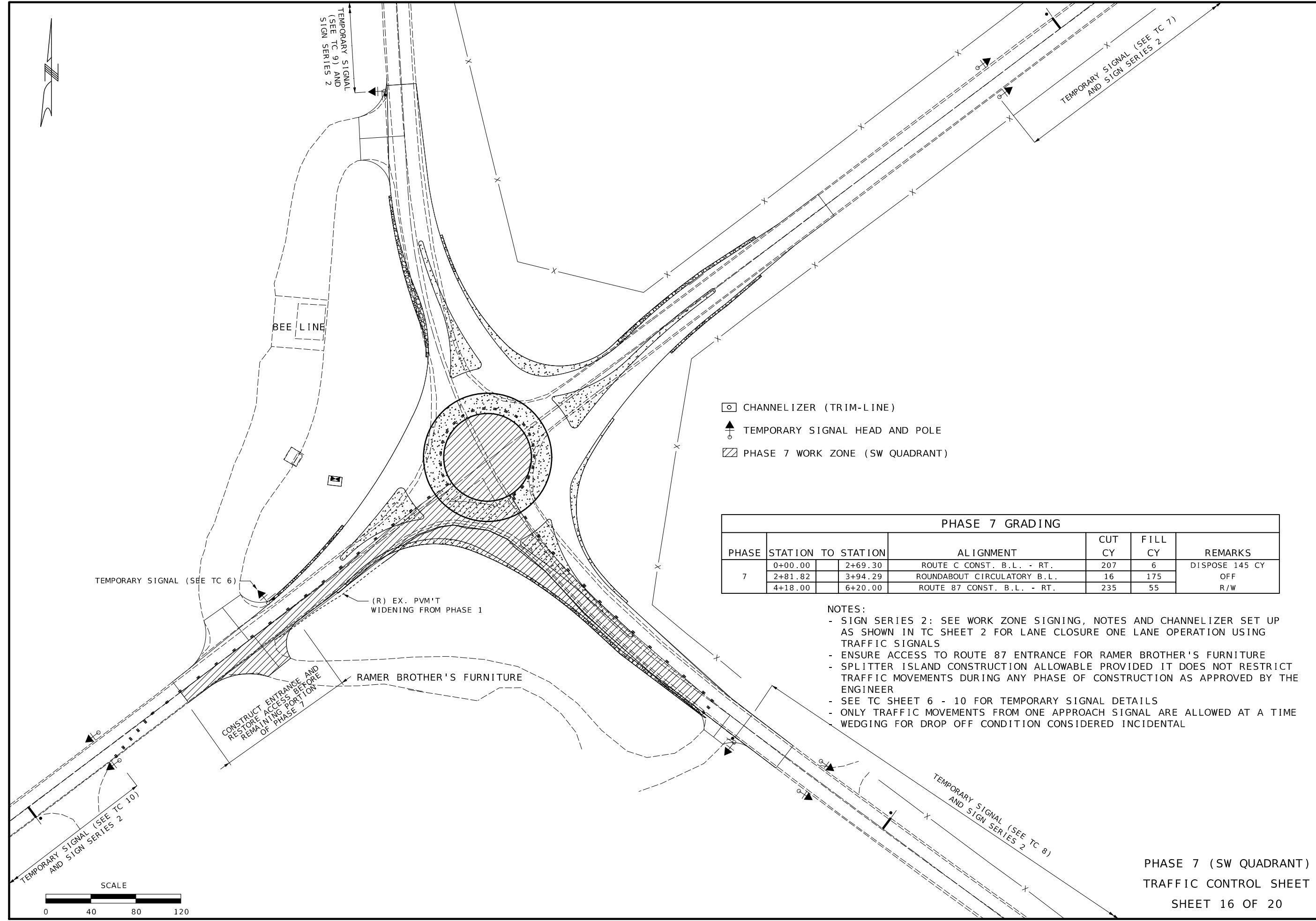
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

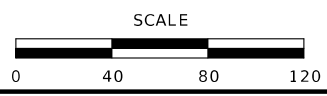
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



- CHANNELIZER (TRIM-LINE)
- ⊕ TEMPORARY SIGNAL HEAD AND POLE
- ▨ PHASE 7 WORK ZONE (SW QUADRANT)

PHASE	STATION TO	STATION	ALIGNMENT	CUT CY	FILL CY	REMARKS
7	0+00.00	2+69.30	ROUTE C CONST. B.L. - RT.	207	6	DISPOSE 145 CY
	2+81.82	3+94.29	ROUNDBOUT CIRCULATORY B.L.	16	175	OFF
	4+18.00	6+20.00	ROUTE 87 CONST. B.L. - RT.	235	55	R/W

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE ACCESS TO ROUTE 87 ENTRANCE FOR RAMER BROTHER'S FURNITURE
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL

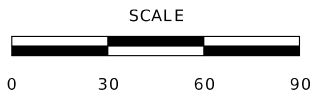
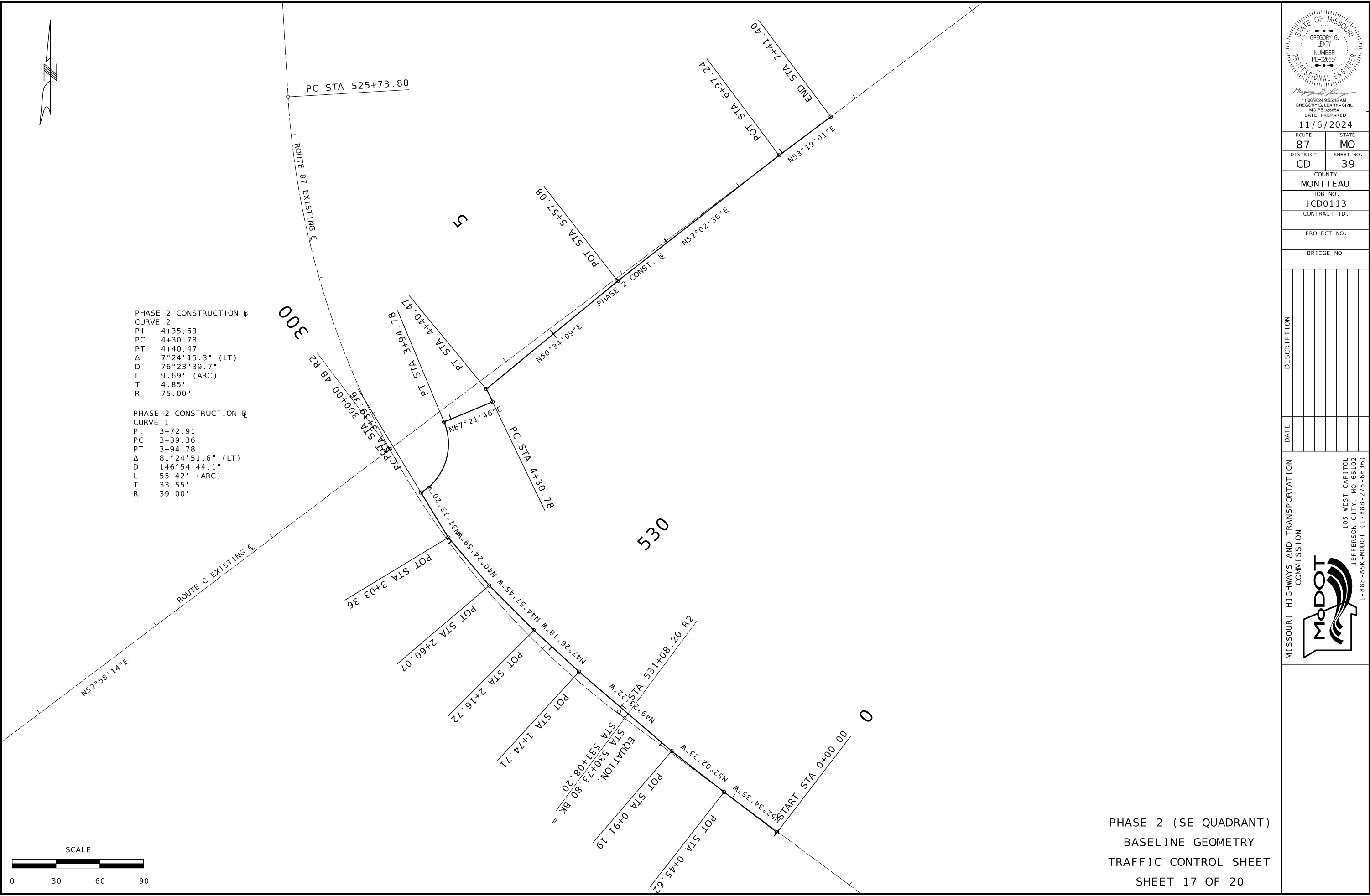


PHASE 7 (SW QUADRANT)  
TRAFFIC CONTROL SHEET  
SHEET 16 OF 20



PHASE 2 CONSTRUCTION @  
CURVE 2  
 PI 4+35.63  
 PC 4+30.78  
 PT 4+40.47  
 Δ 7°24'15.3" (LT)  
 D 76°23'39.7"  
 L 9.69' (ARC)  
 T 4.85'  
 R 75.00'

PHASE 2 CONSTRUCTION @  
CURVE 1  
 PI 3+72.91  
 PC 3+39.36  
 PT 3+94.78  
 Δ 81°24'51.6" (LT)  
 D 146°54'44.1"  
 L 55.42' (ARC)  
 T 33.55'  
 R 39.00'



PHASE 2 (SE QUADRANT)  
 BASELINE GEOMETRY  
 TRAFFIC CONTROL SHEET  
 SHEET 17 OF 20



DATE PREPARED  
 11/6/2024

ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 39

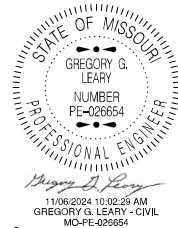
COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.

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)



DATE PREPARED  
11/6/2024 10:02:29 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 40

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

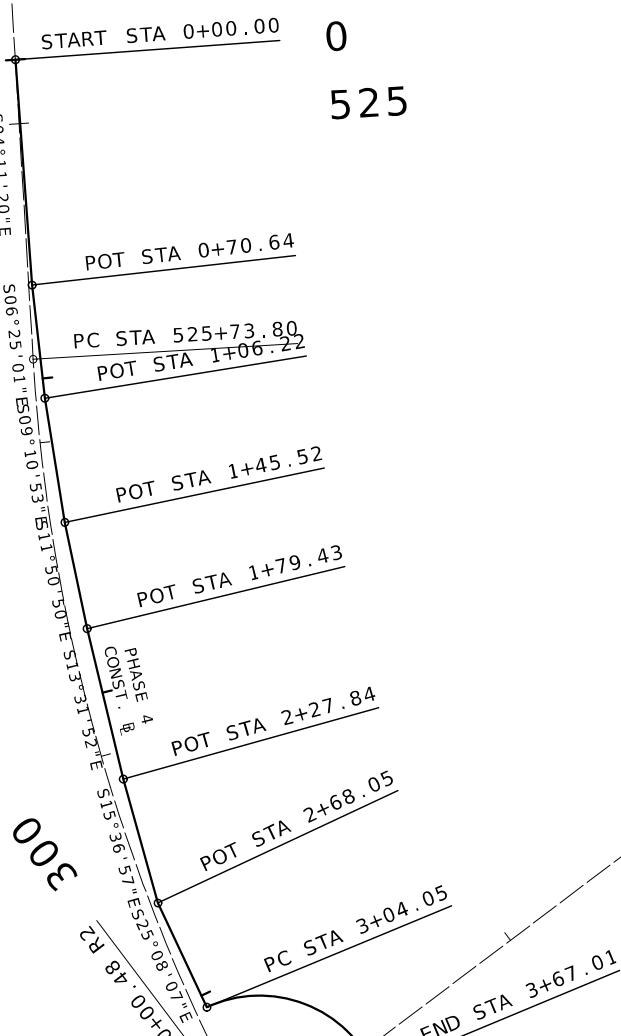
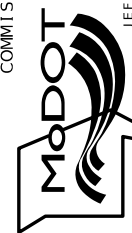
BRIDGE NO.

DESCRIPTION

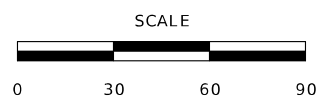
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

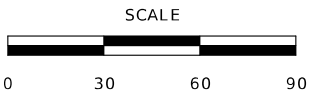
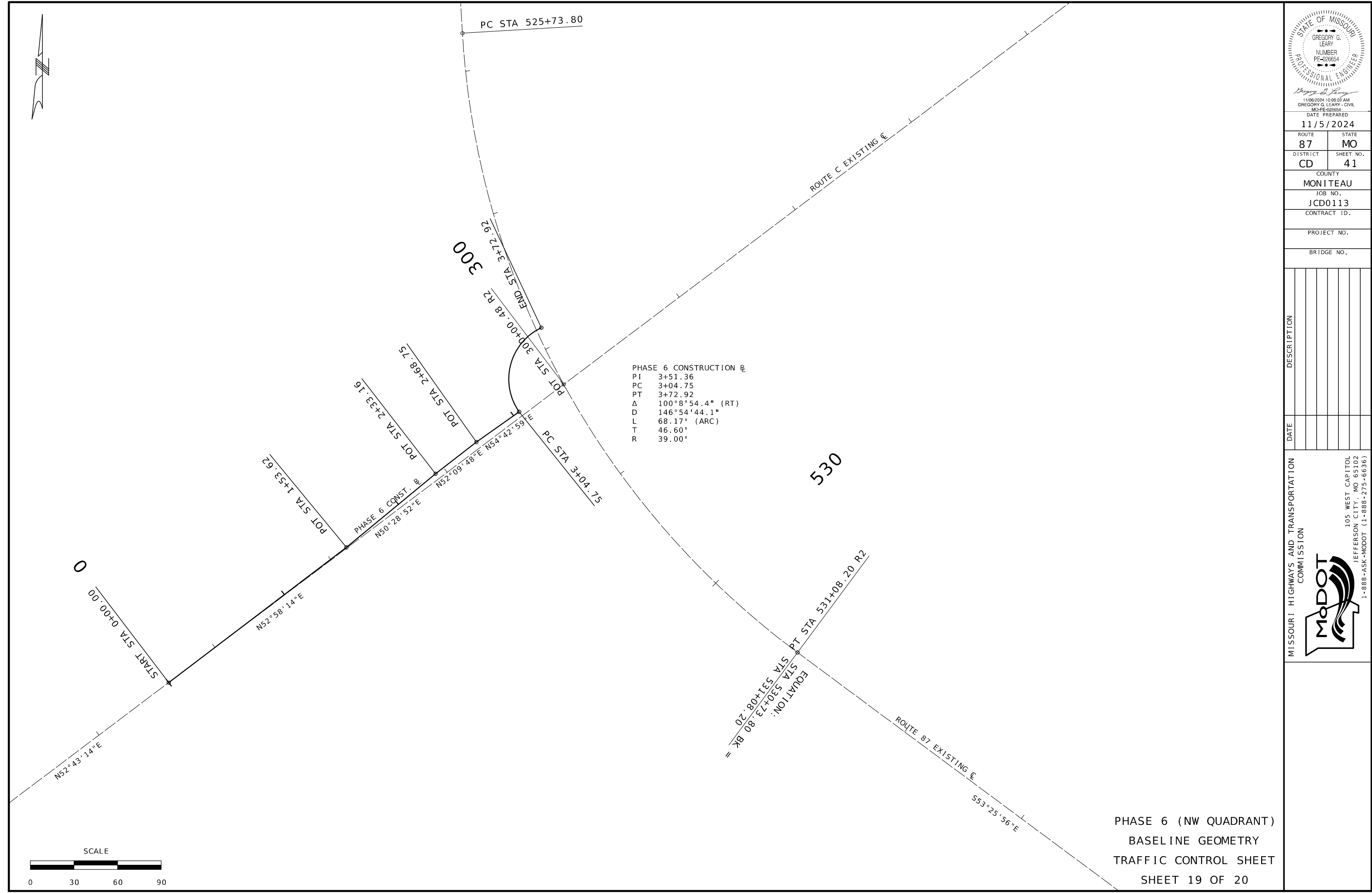


PHASE 4 CONSTRUCTION @  
 PI 3+44.79  
 PC 3+04.05  
 PT 3+67.01  
 Δ 92°29'52.5" (RT)  
 D 146°54'44.1"  
 L 62.96' (ARC)  
 T 40.74'  
 R 39.00'

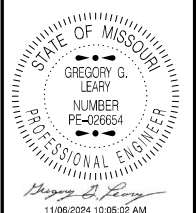


PHASE 4 (NE QUADRANT)  
 BASELINE GEOMETRY  
 TRAFFIC CONTROL SHEET  
 SHEET 18 OF 20

EQUATION:  
 STA 530+73.80 BK  
 STA 531+08.20  
 LD STA 531+08.20 R2  
 ROUTE 87 EXISTING @



PHASE 6 (NW QUADRANT)  
 BASELINE GEOMETRY  
 TRAFFIC CONTROL SHEET  
 SHEET 19 OF 20



DATE PREPARED  
 11/5/2024

ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 41

COUNTY MONITEAU  
 JOB NO. JCD0113  
 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)



11/05/2024 10:04:48 AM  
GREGORY G. LEARY - CIVIL  
MOPE-02654

DATE PREPARED  
11/5/2024

ROUTE  
87 STATE  
MO

DISTRICT  
CD SHEET NO.  
42

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

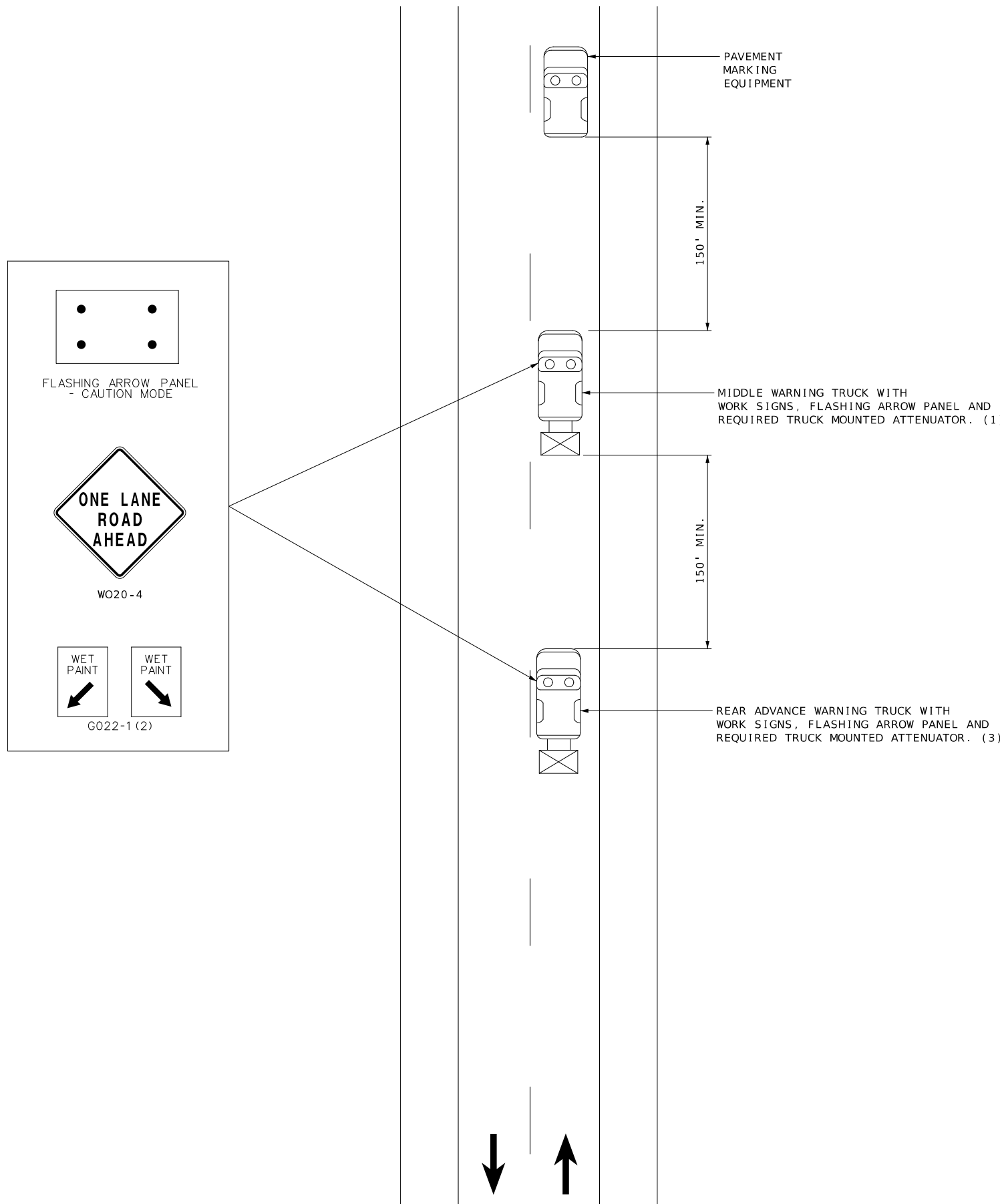
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



### STRIPING ON TWO-LANE HIGHWAY

**NOTES:**

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

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

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

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

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

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







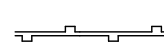



(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

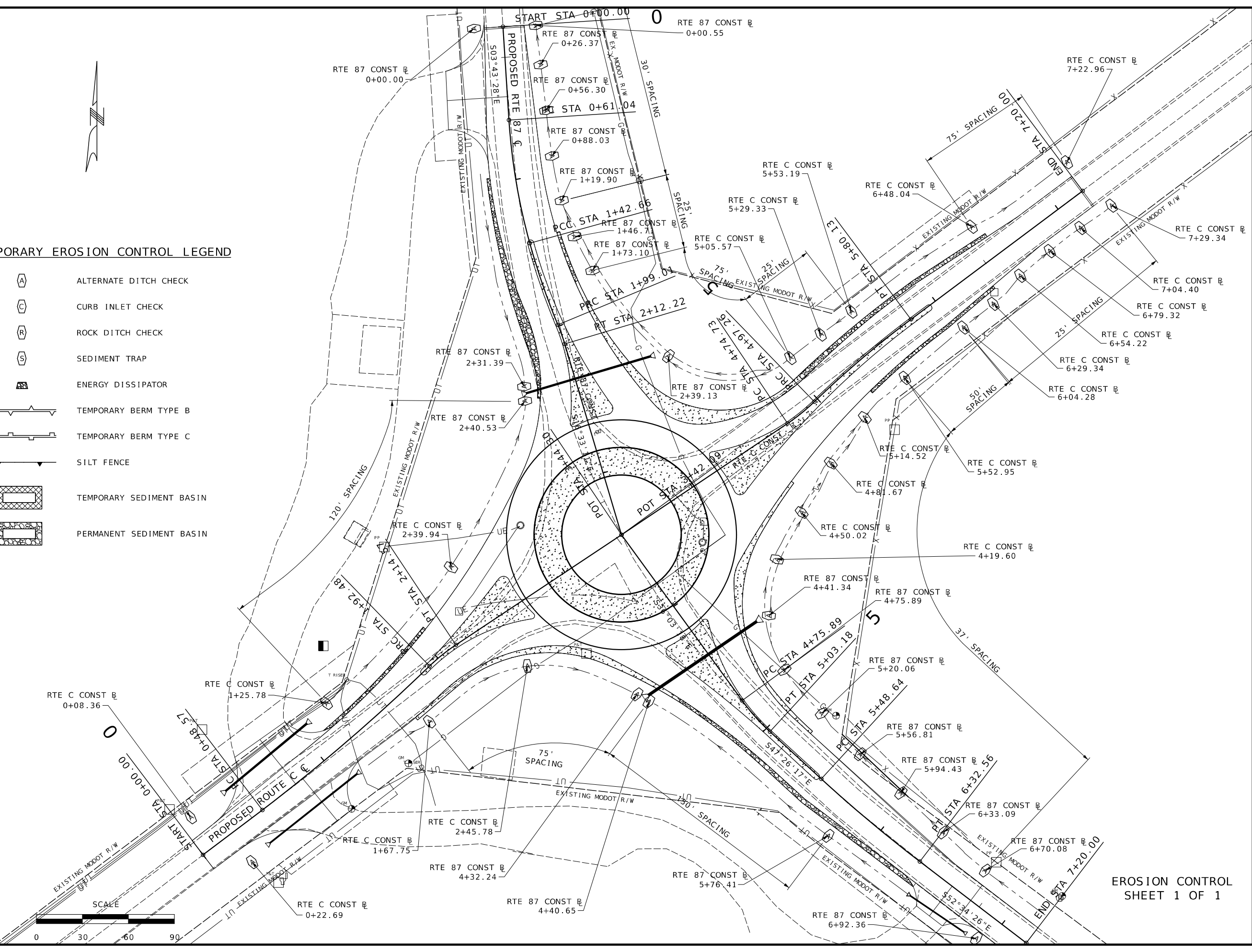
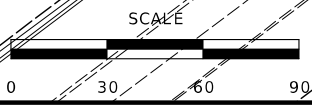
(3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.






### TEMPORARY EROSION CONTROL LEGEND

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




EROSION CONTROL  
SHEET 1 OF 1



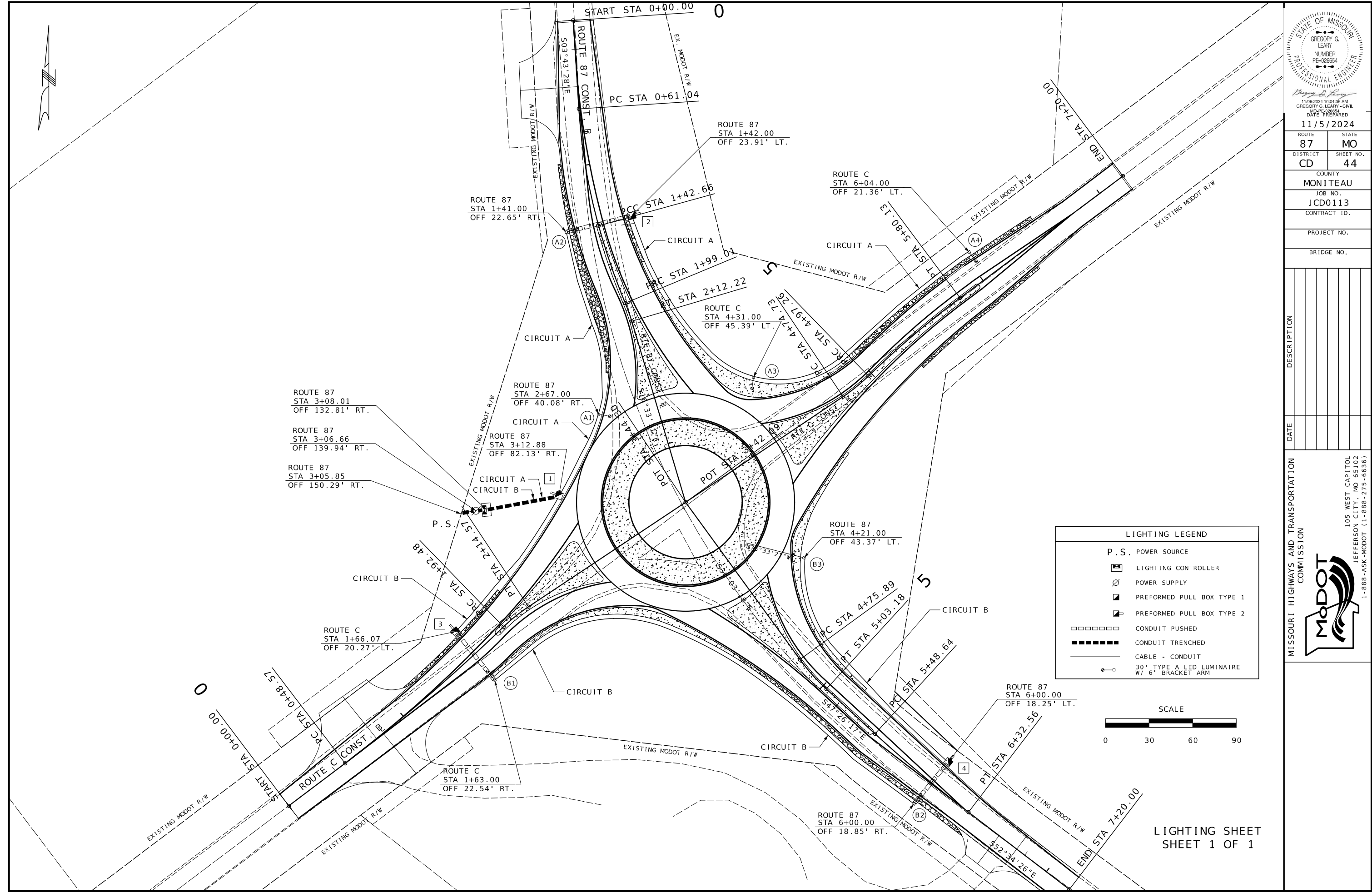
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GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED

11/6/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 43
COUNTY MONITEAU	
JOB NO. JCD0113	
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)



11/06/2024 10:04:36 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED

11/5/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 44

COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.

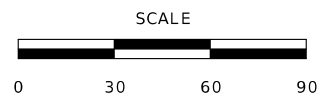
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

**LIGHTING LEGEND**

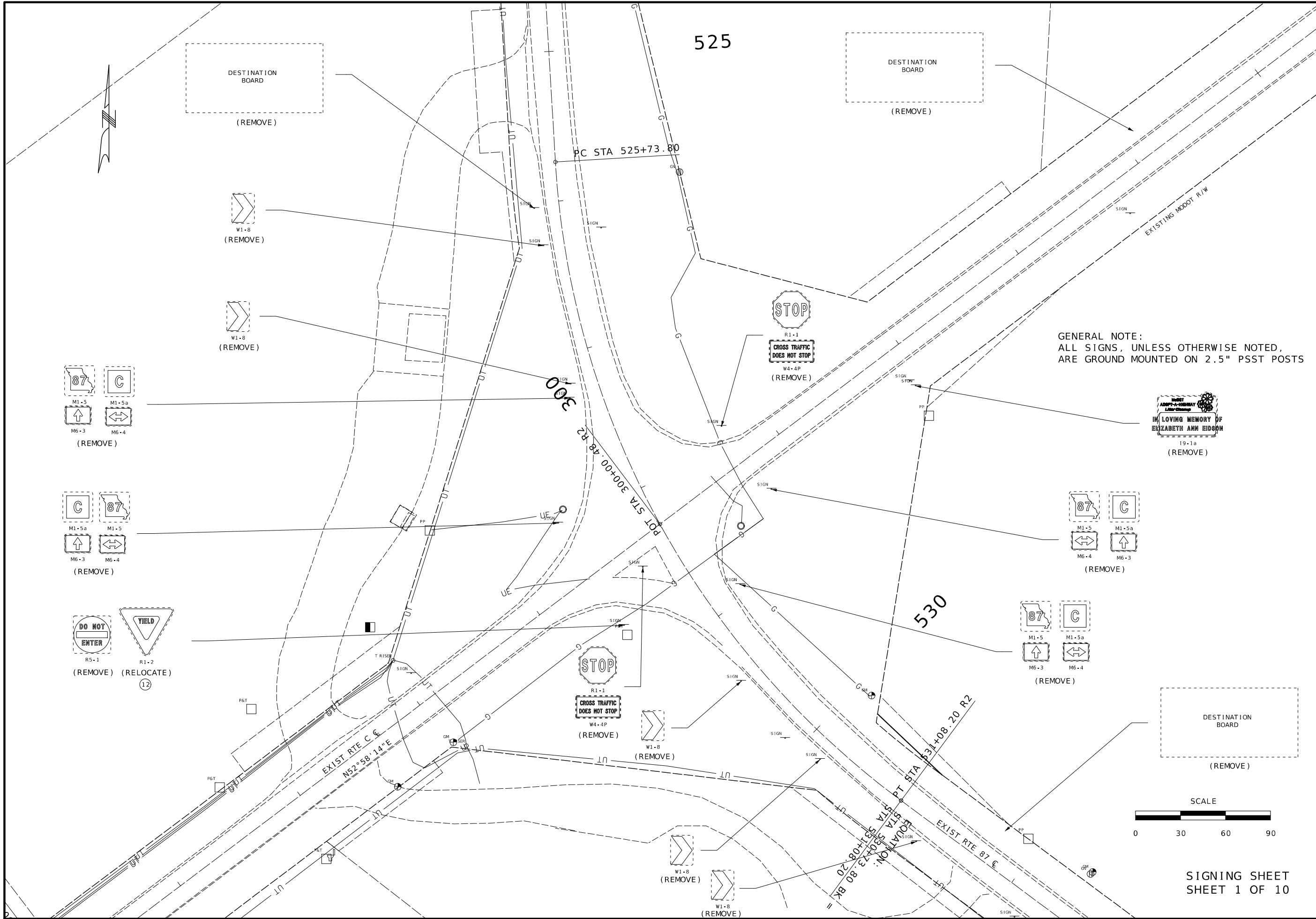
- P.S. POWER SOURCE
- LIGHTING CONTROLLER
- POWER SUPPLY
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONDUIT PUSHED
- CONDUIT TRENCHED
- CABLE - CONDUIT
- 30' TYPE A LED LUMINAIRE  
W/ 6' BRACKET ARM



LIGHTING SHEET  
SHEET 1 OF 1

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



**STATE OF MISSOURI**  
**GREGORY G. LEARY**  
 NUMBER  
 PE-226654  
**PROFESSIONAL ENGINEER**

11/06/2024 10:04:20 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-226654

DATE PREPARED  
 11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 45

COUNTY  
 MONITEAU

JOB NO.  
 JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
 COMMISSION

**MoDOT**

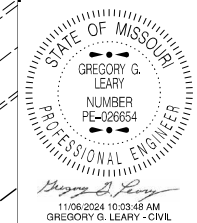
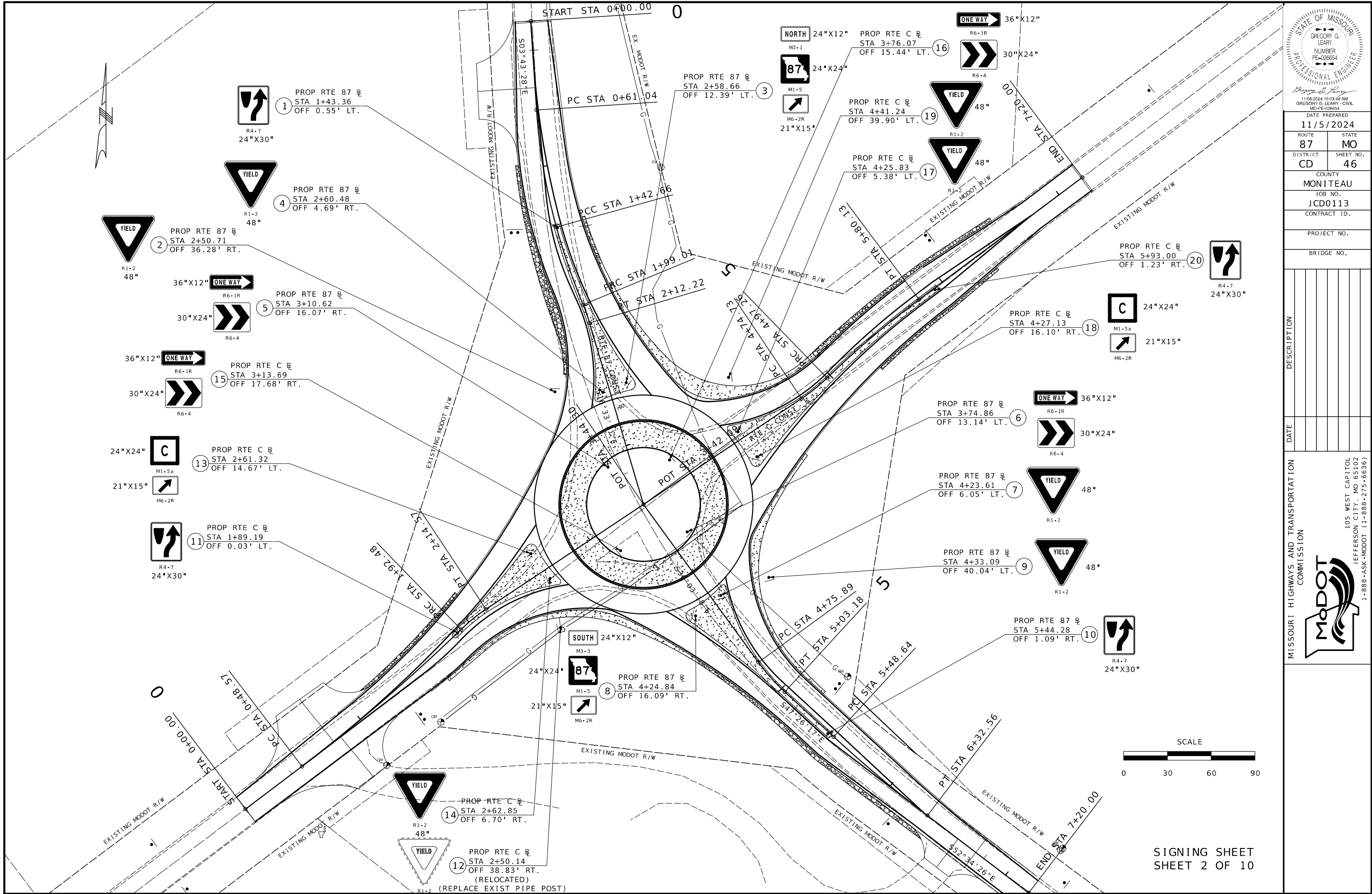
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

IN LOVING MEMORY OF  
 ELIZABETH ANN EIDSON  
 19-1a  
 (REMOVE)

DESTINATION BOARD  
 (REMOVE)

SCALE  
 0 30 60 90

SIGNING SHEET  
 SHEET 1 OF 10



DATE PREPARED  
11/5/2024

ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	46

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

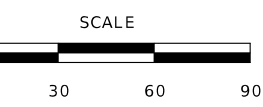
PROJECT NO.

BRIDGE NO.

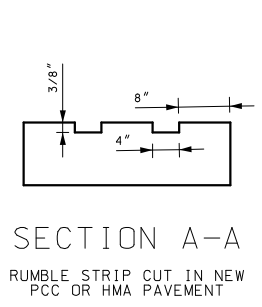
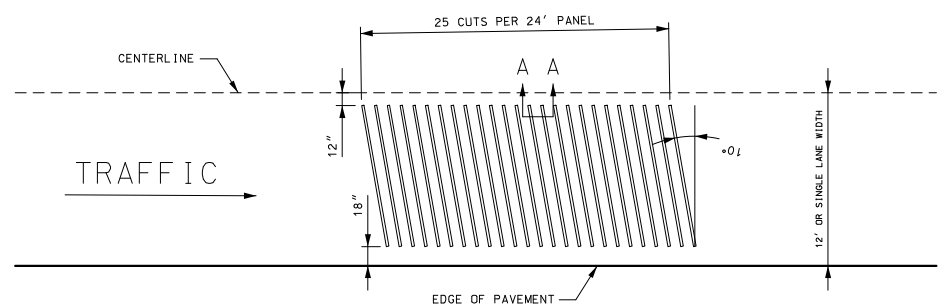
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

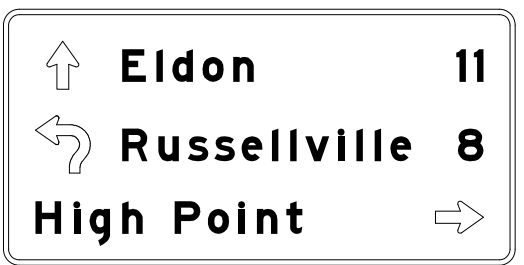
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



SIGNING SHEET  
SHEET 2 OF 10



TYPICAL TRANSVERSE RUMBLE STRIP DIMENSIONS



D1-3d  
96" X 48"



11/06/2024 10:03:34 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED

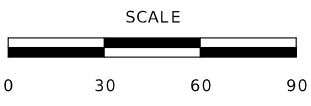
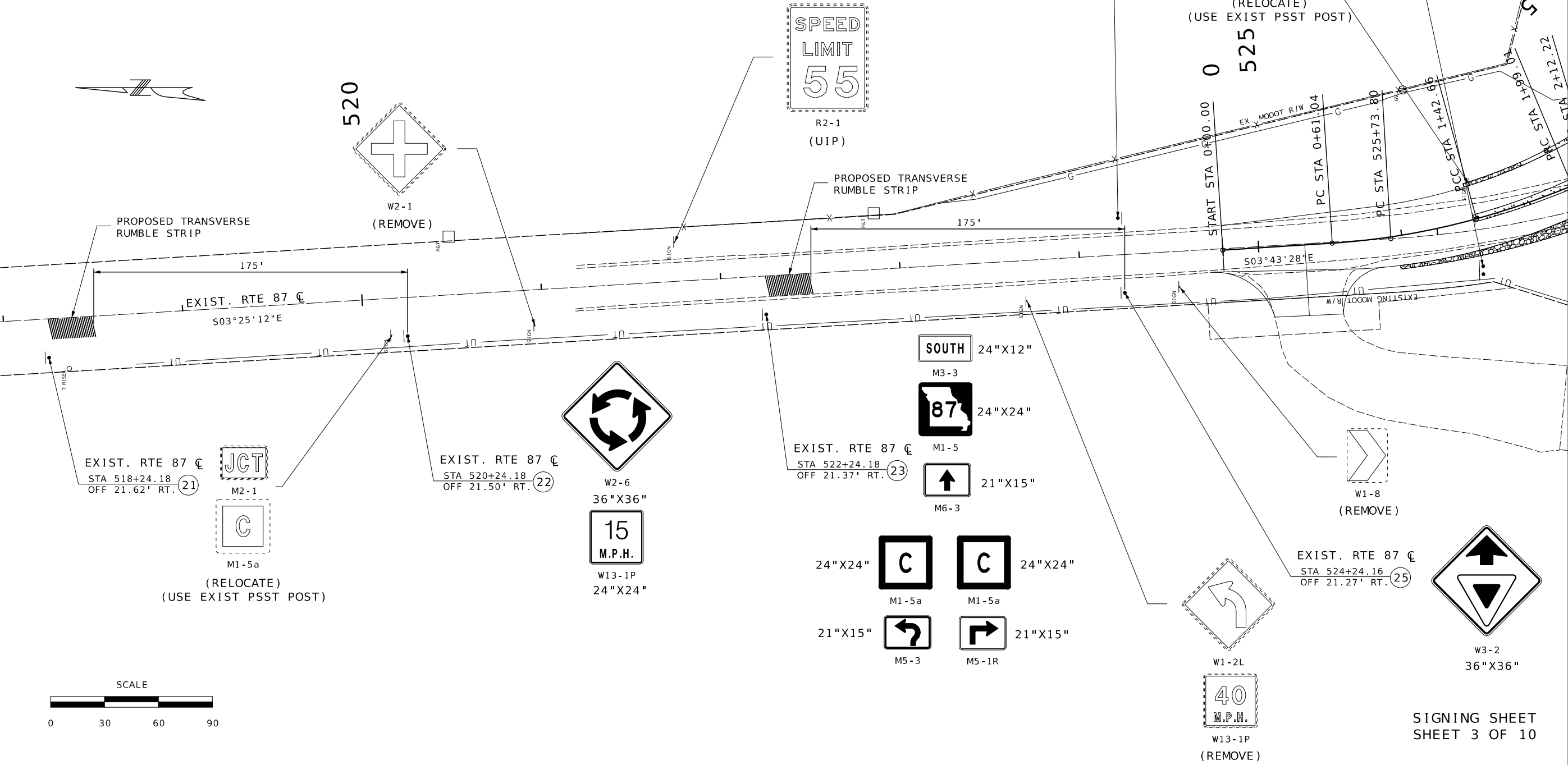
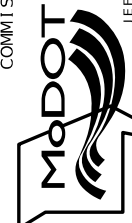
11/5/2024  
ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 47

COUNTY MONITEAU  
JOB NO. JCD0113  
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)



SIGNING SHEET  
SHEET 3 OF 10



11/06/2024 10:03:21 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 48

COUNTY MONITEAU

JOB NO. JCD0113

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)



↑ California 10  
↩ High Point  
Russellville 8 →

D1-3d  
96"X48"

24"X12" NORTH

M3-1

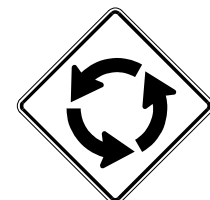
24"X24" 87

M1-5

21"X15" ↑

M6-3

EXIST. RTE 87 C  
STA 534+54.17  
OFF 19.62' LT. (30)



W2-6  
36"X36"

15  
M.P.H.  
W13-1P  
24"X24"

EXIST. RTE 87 C  
STA 536+54.17  
OFF 19.62' LT. (31)

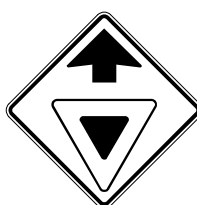
JCT

M2-1

C

(RELOCATE)  
(REPLACE WOOD POST)

EXIST. RTE 87 C  
STA 538+54.17  
OFF 19.62' LT. (32)



W3-2  
36"X36"

EXIST. RTE 87 C  
STA 532+54.17  
OFF 19.62' LT. (29)

24"X24" C

M1-5a  
M5-3

24"X24" C

M1-5a  
M5-1R

PROPOSED TRANSVERSE RUMBLE STRIP

PROPOSED TRANSVERSE RUMBLE STRIP

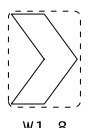
EXIST. RTE 87 C

SOUTH

87

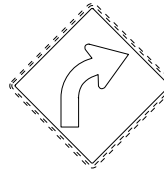
STA 531+33.04  
OFF 19.97' RT. (28)

M1-5  
(RELOCATE)  
(USE EXIST PSST POST)



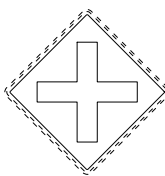
W1-8  
(REMOVE)

SPEED  
LIMIT  
55  
R2-1  
(UIP)

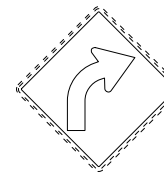


W1-2R

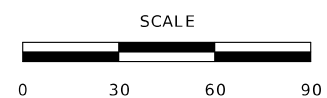
40  
M.P.H.  
W13-1P  
(UIP)



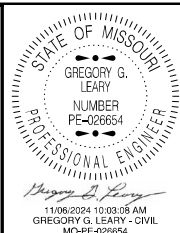
W2-1  
(REMOVE)



W1-2R  
40  
M.P.H.  
W13-1P  
(REMOVE)



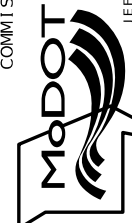
SIGNING SHEET  
SHEET 4 OF 10



DATE PREPARED  
11/5/2024  
ROUTE STATE  
87 MO  
DISTRICT SHEET NO.  
CD 49  
COUNTY  
MONITEAU  
JOB NO.  
JCD0113  
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)



DESTINATION BOARD  
(REMOVE)

W3-1  
(REMOVE)

STA 295+93.93  
OFF 19.27' LT. (36) C  
M1-5a  
(RELOCATE)  
(USE EXIST PSST POST)

EXIST. RTE C C

START STA 0+00.00

PC STA 0+48.57

P.R.C STA 1+92.48

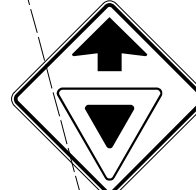
EXISTING MODOT R/W

EXISTING MODOT R/W

EXISTING TRANSVERSE RUMBLE STRIP (UIP)

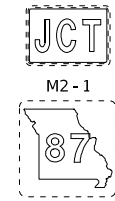
EXISTING TRANSVERSE RUMBLE STRIP (UIP)

EXIST. RTE C C  
STA 295+95.07 (37)  
OFF 19.71' RT.



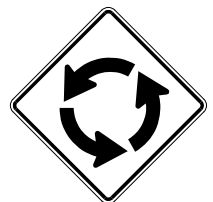
W3-2  
36\"X36\"

EXIST. RTE C C  
STA 310+89.12 (33)  
OFF 19.51' RT.



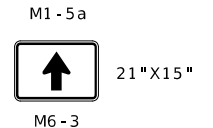
M1-5  
(RELOCATE)  
(USE EXIST PSST POST)

EXIST. RTE C C  
STA 312+85.36 (34)  
OFF 19.74' RT.



W2-6  
36\"X36\"  
15  
M.P.H.  
W13-1P  
24\"X24\"

EXIST. RTE C C  
STA 314+84.77 (35)  
OFF 19.17' RT.



24\"X12\" NORTH M3-1 24\"X12\" SOUTH M3-3

24\"X24\" 87 M1-5 24\"X24\" 87 M1-5

21\"X15\" M5-3 21\"X15\" M5-1R

↑ Russellville 8

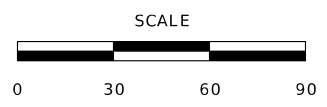
↶ California 10

Eldon

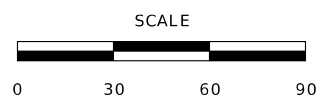
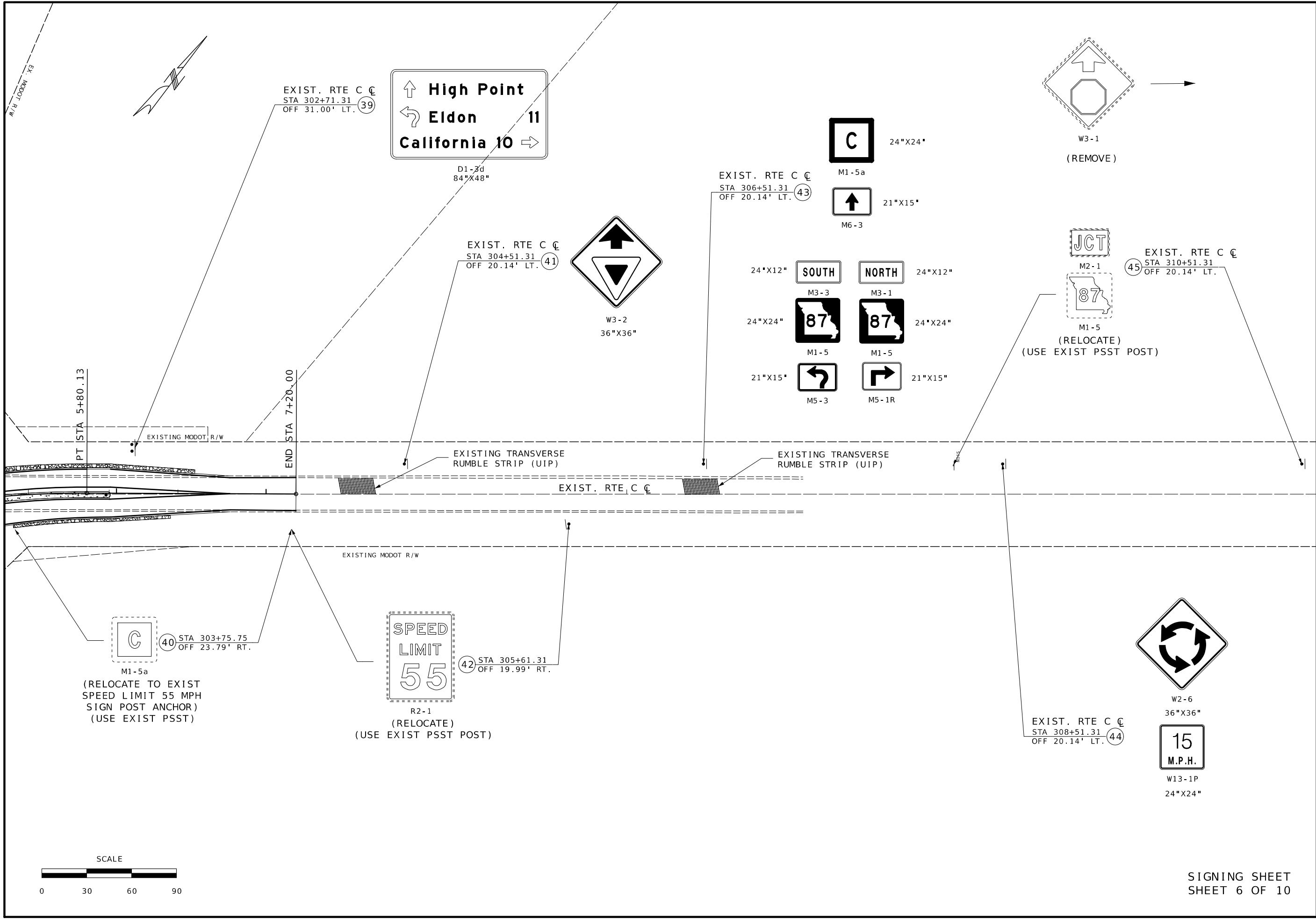
11 →

D1-3d  
96\"X48\"

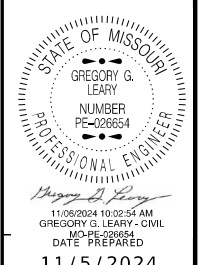
EXIST. RTE C C  
STA 297+95.07 (38)  
OFF 27.32 RT.



SIGNING SHEET  
SHEET 5 OF 10



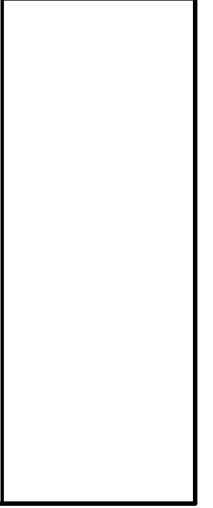
SIGNING SHEET  
SHEET 6 OF 10



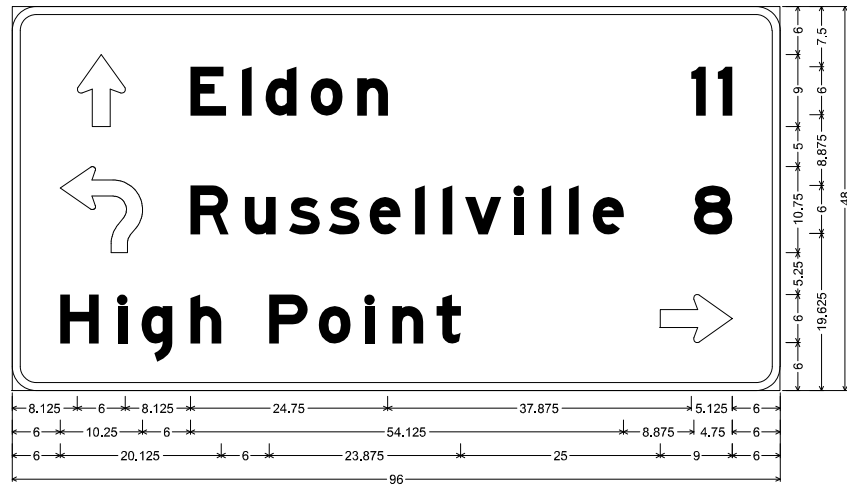
11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 50  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

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



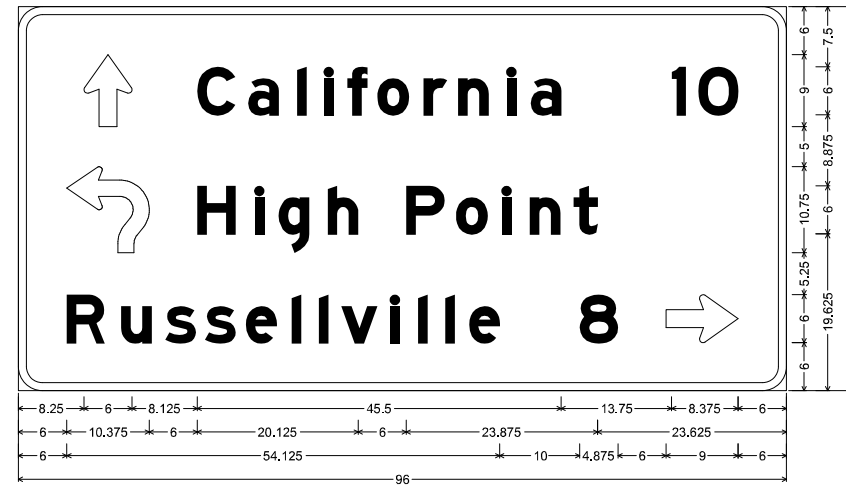




D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "Eldon", E Mod; "11", E Mod; "Russellville", E Mod; "8", E Mod;  
 "High Point", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

8.125	E	22.250	I	28.750	d	31.625	o	37.375	n	43.125	l	48.875	l	54.625
6.000	R	22.250	u	29.125	s	34.625	s	39.625	e	44.625	o	50.375	l	56.125
6.000	H	13.250	g	16.125	h	22.250	P	32.125	o	38.375	l	44.125	n	50.000

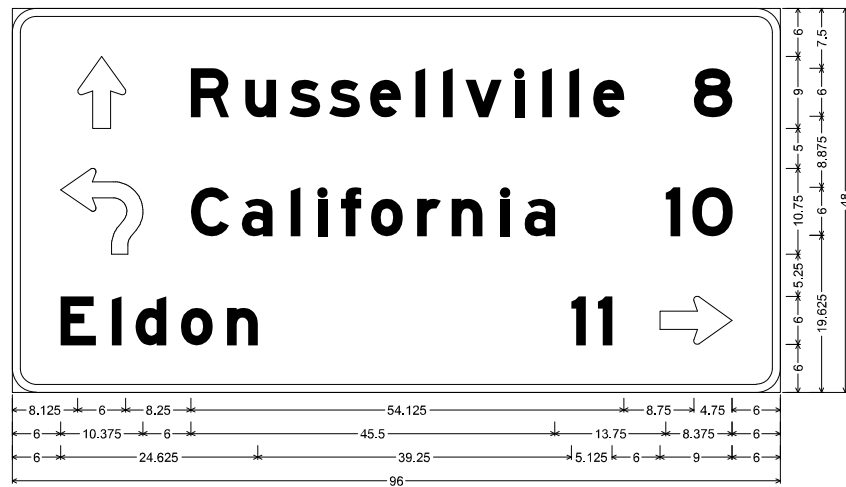
SIGN 26



D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "California", E Mod; "10", E Mod; "High Point", E Mod;  
 "Russellville", E Mod; "8", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

8.250	C	22.375	a	28.750	l	34.875	f	41.125	o	47.375	r	53.625	n	59.875
6.000	H	13.250	g	16.125	h	22.250	P	32.125	o	38.375	l	44.125	n	50.000
6.000	R	22.375	u	29.125	s	34.625	s	39.625	e	44.625	o	50.375	l	56.125

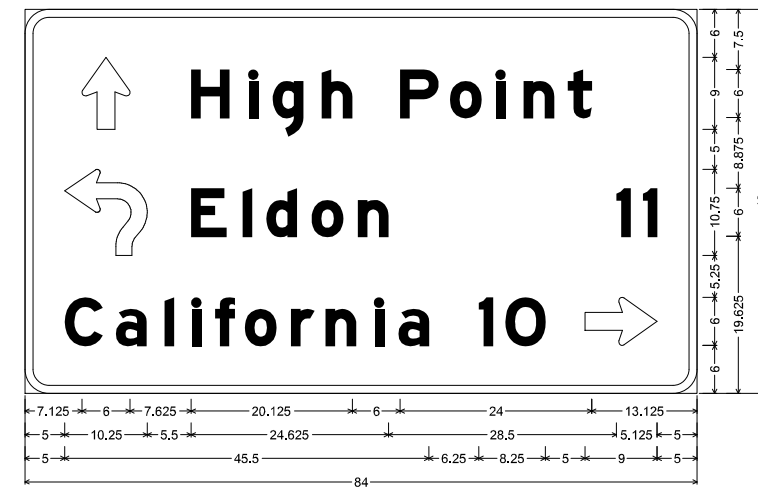
SIGN 27



D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "Russellville", E Mod; "8", E Mod; "California", E Mod; "10", E Mod;  
 "Eldon", E Mod; "11", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

8.125	R	22.375	u	29.125	s	34.625	s	39.625	e	44.625	o	50.375	l	56.125
6.000	C	22.375	a	28.750	l	34.875	f	41.125	o	47.375	r	53.625	n	59.875
6.000	E	12.500	d	15.375	o	21.125	n	26.875	l	32.625	l	38.375	n	44.125

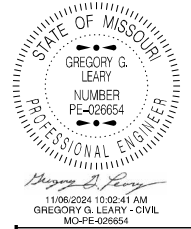
SIGN 38



D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "High Point", E Mod; "Eldon", E Mod; "11", E Mod;  
 "California", E Mod; "10", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

7.125	H	20.750	g	28.000	h	31.000	P	37.125	o	43.125	l	49.125	n	55.125
5.000	E	20.750	d	27.250	o	30.125	n	35.875	l	41.625	l	47.375	n	53.125
5.000	C	11.375	a	17.500	l	20.875	f	23.750	o	27.500	r	33.250	n	39.000

SIGN 39

















DATE PREPARED 11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 51
COUNTY MONITEAU	
JOB NO. JCD0113	
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)



STANDARD SIGN ASSEMBLIES																	
SIGN NO	STATION	OFFSET	LOCATION	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SHF	SHF	SH	
				 24*X 30*	 48*	 24*X 12*	 24*X 12*	 24*X 24*	 24*X 24*	 21*X 15*	 21*X 15*	 21*X 15*	 21*X 15*	 36*X 12*	 30*X 24*	 36*X 36*	 24*X 24*
1	1+43.36	0.55' LT	PROP RTE 87 BL	1													
2	2+50.71	36.28' RT	PROP RTE 87 BL		1												
3	2+58.66	12.39' LT	PROP RTE 87 BL			1			1								
4	2+60.48	4.69' RT	PROP RTE 87 BL		1												
5	3+10.62	16.07' RT	PROP RTE 87 BL										1	1			
6	3+74.86	13.14' LT	PROP RTE 87 BL										1	1			
7	4+23.61	6.05' LT	PROP RTE 87 BL		1												
8	4+24.84	16.09' RT	PROP RTE 87 BL			1	1			1							
9	4+33.09	40.04' LT	PROP RTE 87 BL		1												
10	5+44.28	1.09' RT	PROP RTE 87 BL	1													
11	1+89.19	0.03' LT	PROP RTE C BL	1													
13	2+61.32	14.67' LT	PROP RTE C BL						1		1						
14	2+62.85	6.70' RT	PROP RTE C BL		1												
15	3+13.69	17.68' RT	PROP RTE C BL									1	1				
16	3+76.07	15.44' LT	PROP RTE C BL									1	1				
17	4+25.83	5.38' LT	PROP RTE C BL		1												
18	4+27.13	16.19' RT	PROP RTE C BL						1		1						
19	4+41.24	39.90' LT	PROP RTE C BL		1												
20	5+93.00	1.23' RT	PROP RTE C BL	1													
22	520+24.18	21.50' RT	EXIST RTE 87 CL										1	1			
23	522+24.18	21.37' RT	EXIST RTE 87 CL			1	1	2	1		1	1					
25	524+24.16	21.27' RT	EXIST RTE 87 CL													1	
29	532+54.17	19.62' LT	EXIST RTE 87 CL													1	
30	534+54.17	19.62' LT	EXIST RTE 87 CL			1		1	2	1		1	1				
31	536+54.17	19.62' LT	EXIST RTE 87 CL										1	1			
34	312+85.36	19.74' RT	EXIST RTE C CL										1	1			
35	314+84.77	19.17' RT	EXIST RTE C CL			1	1	2	1	1		1	1				
37	295+95.07	19.71' RT	EXIST RTE C CL													1	
41	304+51.31	20.14' LT	EXIST RTE C CL													1	
43	306+51.31	20.14' LT	EXIST RTE C CL			1	1	2	1	1		1	1				
44	308+51.31	20.14' LT	EXIST RTE C CL										1	1			
TOTAL				4	7	4	4	8	8	4	4	4	4	4	4	4	4

SIGN SUMMARY						
STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	QTY.	SIZE (IN.)	SIZE, TYPE, & SQUARE FEET		
				FLAT SHEET SH ITEM NO. 903-50.04A	FLAT SHEET FLUORESCENT SHF ITEM NO. 903-50.69A	STRUCTURAL STEEL ITEM NO. 903-50.11A
KEEP RIGHT (R4-7)	STD.	4	24X30	20		
YIELD (R1-2)	STD.	7	48 TRI.	112		
NORTH (M3-1)	STD.	4	24X12	8		
SOUTH (M3-3)	STD.	4	24X12	8		
STATE ROUTE 87 (M1-5)	STD.	8	24X24	32		
STATE ROUTE C (M1-5A)	STD.	8	24X24	32		
ADVANCE RIGHT DIRECTIONAL ARROW (M5-1R)	STD.	4	21X15	8.75		
DIRECTIONAL ARROW RT/45 DEG. (M6-2R)	STD.	4	21X15	8.75		
STRAIGHT DIRECTIONAL ARROW (M6-3)	STD.	4	21X15	8.75		
ROUNDBOUT LEFT (M5-3)	STD.	4	21X15	8.75		
ONE WAY RIGHT (R6-1R)	STD.	4	36X12	12		
ROUNDBOUT DIRECTIONAL (2 CHEVRONS) (R6-4)	STD.	4	30X24	20		
ROUNDBOUT SYMBOL (W2-6)	STD.	4	36X36		36	
SPEED LIMIT 15 M.P.H. (W13-1P)	STD.	4	24X24		16	
YIELD AHEAD (W3-2)	STD.	4	36X36		36	
SIGN 26		7	96X48			32
SIGN 27		7	96X48			32
SIGN 38		7	96X48			32
SIGN 39		7	84X48			28
TOTAL				279.00	88	124
USE				279	88	124


STATE OF MISSOURI  
GREGORY G. LEARY  
NUMBER PE-026654  
PROFESSIONAL ENGINEER  
11/06/2024 10:05:45 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-00004

11/5/2024  
ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 53  
COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)



SIGNING SHEET  
SHEET 9 OF 10



11/06/2024 10:05:54 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED


11/6/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 54

COUNTY  
 MONITEAU  
 JOB NO.  
 JCD0113  
 CONTRACT ID.

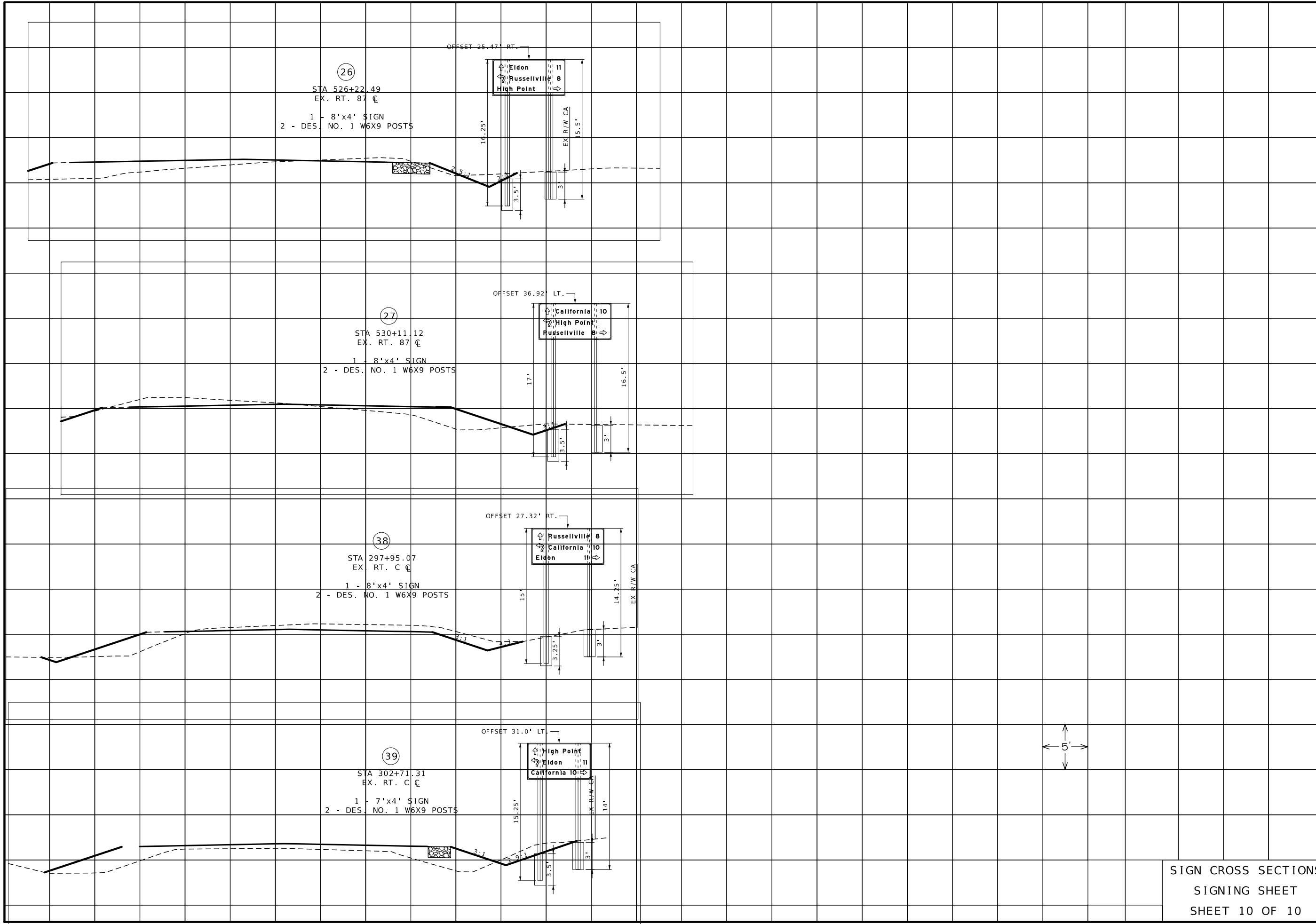
PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



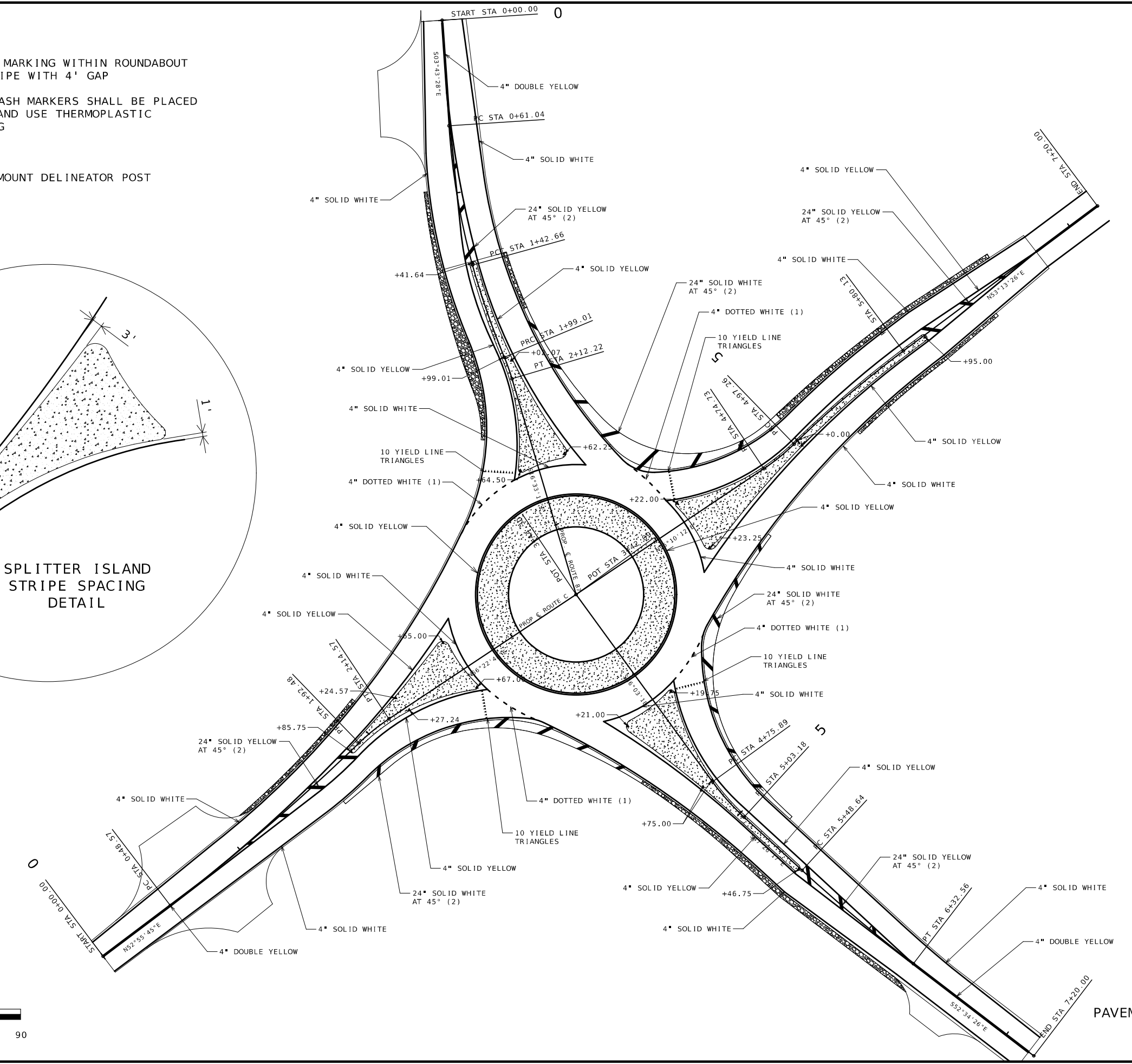
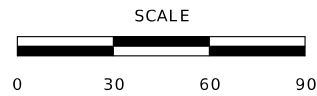
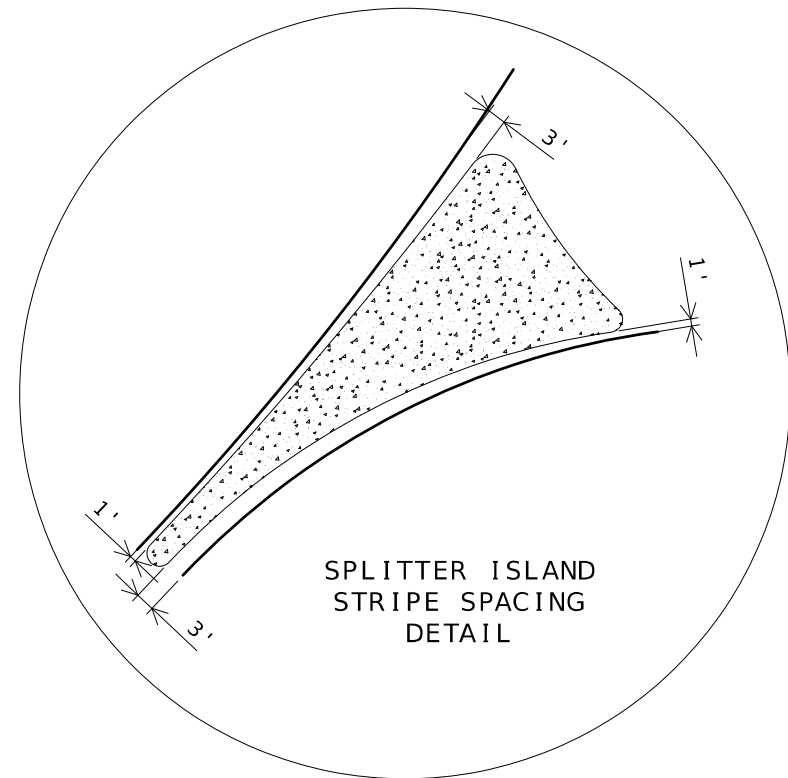
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)



NOTE:

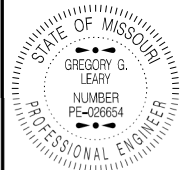
- (1) DOTTED PAVEMENT MARKING WITHIN ROUNDABOUT SHALL BE 2' STRIPE WITH 4' GAP
- (2) 24" SOLID 45° HASH MARKERS SHALL BE PLACED AT 25' SPACING AND USE THERMOPLASTIC PAVEMENT MARKING

▲ 36 IN. SURFACE MOUNT DELINEATOR POST



PAVEMENT MARKING SHEET  
SHEET 1 OF 1

STATE OF MISSOURI	
GREGORY G. LEARY	
NUMBER PE-206654	
PROFESSIONAL ENGINEER	
DATE PREPARED 11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 55
COUNTY MONITEAU	
JOB NO. JCD0113	
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)	



11/06/2024 10:03:01 AM  
 GREGORY G. LEARY - CIVIL  
 MO PE 026654  
 DATE PREPARED

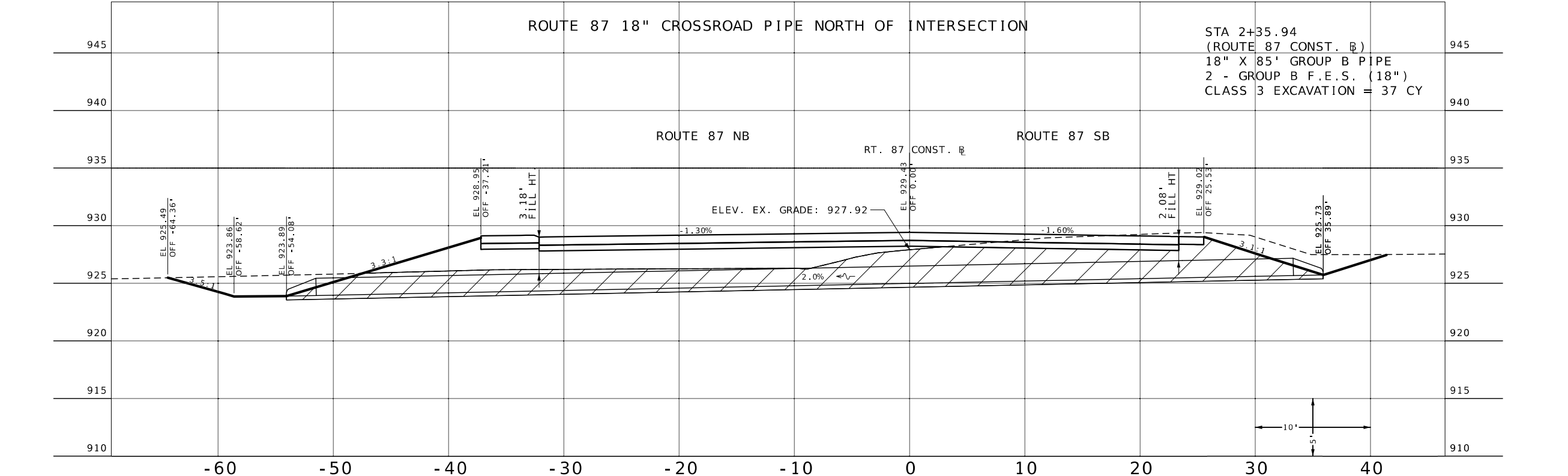
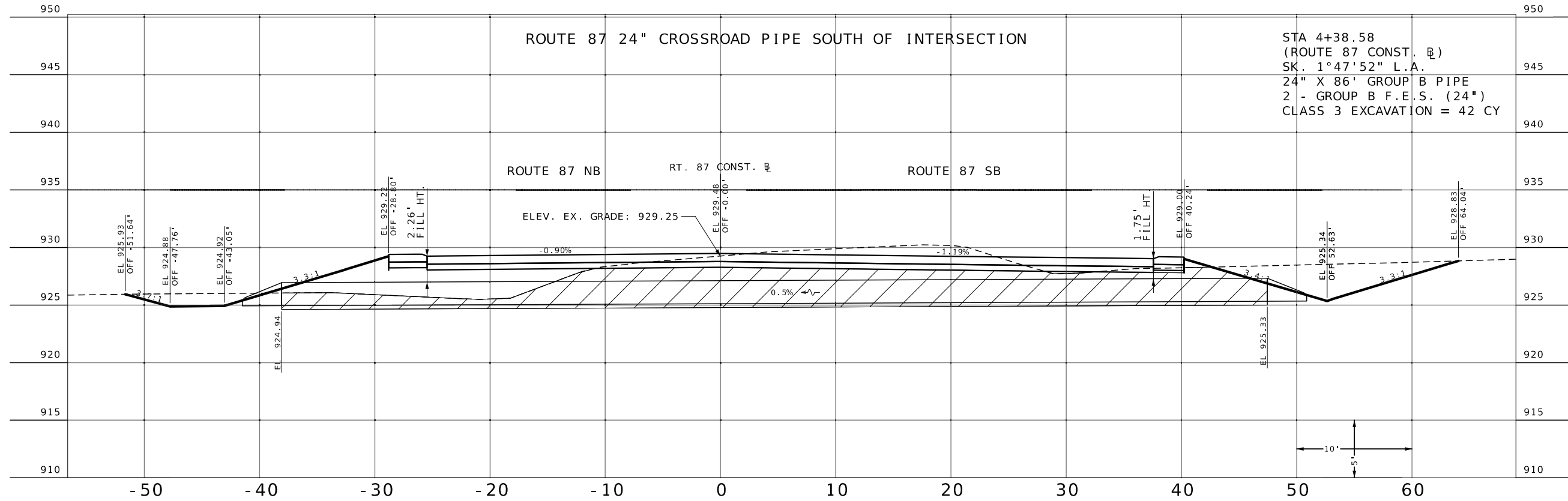
11/5/2024	
ROUTE <b>87</b>	STATE <b>MO</b>
DISTRICT <b>CD</b>	SHEET NO. <b>56</b>
COUNTY <b>MONITEAU</b>	
JOB NO. <b>JCD0113</b>	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



**DESIGN DESIGNATION**

A.A.D.T.-2025 (RT. 87/C) = 1,200/1,933  
 A.A.D.T.-2045 (RT. 87/C) = 1,332/2,136  
 D.H.V. (RT. 87/C) = 13.69%/9.87%  
 T (RT. 87/C) = 12.28%/5.57%  
 V (RT. 87/C) = 55 M.P.H./155 M.P.H.  
 D (RT. 87/C) = 50.6%/49.4%/50.1%/49.9%

FUNCTIONAL CLASSIFICATION (RT. 87 & C)-MINOR ARTERIAL

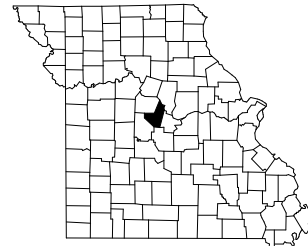
**NEW R/W REQUIRED:  
 TEMPORARY EASEMENTS  
 & PERMANENT NORMAL  
 ACCESS R/W**

T43N R15W S9

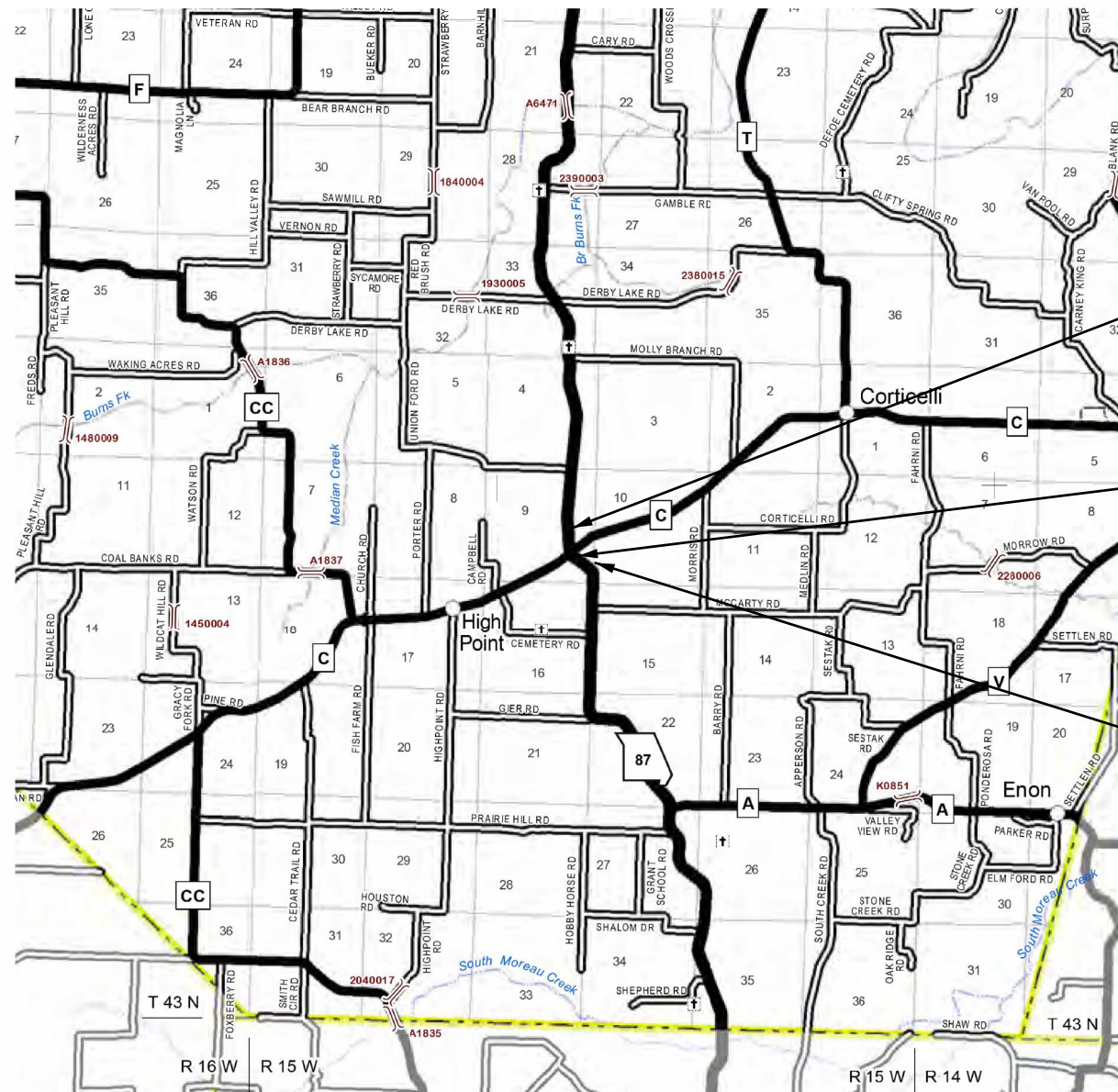
**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 PLANS FOR PROPOSED  
 STATE HIGHWAY**

**MONITEAU COUNTY**

T43N R15W S9



**KEY MAP**  
 LOCATION OF MONITEAU COUNTY



BEGIN PROJECT  
 STA 524+80.00  
 ROUTE 87

EQUATION:  
 STA 530+73.80 BK=  
 STA 531+08.20 AH

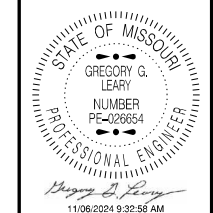
END PROJECT  
 STA 532+38.69  
 ROUTE 87

ROUTE 87 & C INTERSECTION IMPROVEMENTS  
 NEW ROUNDABOUT, GRADING, PAVING,  
 DRAINAGE, SIGNING, AND LIGHTING

NOT TO SCALE

**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (7 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-7
REFERENCE POINTS (RP)-----	8
COORDINATE POINTS (CP)-----	9
SPECIAL SHEETS (SS)-----	10-22
TRAFFIC CONTROL SHEETS (TC)-----	23-42
EROSION CONTROL SHEETS (EC)-----	43
LIGHTING (LT)-----	44
SIGNING (SN)-----	45-54
PAVEMENT MARKING (PM)-----	55
CULVERT SECTIONS (CS)-----	56
CROSS SECTIONS (XS)-----	1-35



DATE PREPARED 11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 1
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

**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	
OVERHEAD CABLE TV	
UNDERGROUND CABLE TV	
OVERHEAD TELEPHONE	
UNDERGROUND TELEPHONE	
OVERHEAD POWER	
UNDERGROUND POWER	
SANITARY SEWER	
STORM SEWER	
GAS	
WATER	
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

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.

**LENGTH OF PROJECT**

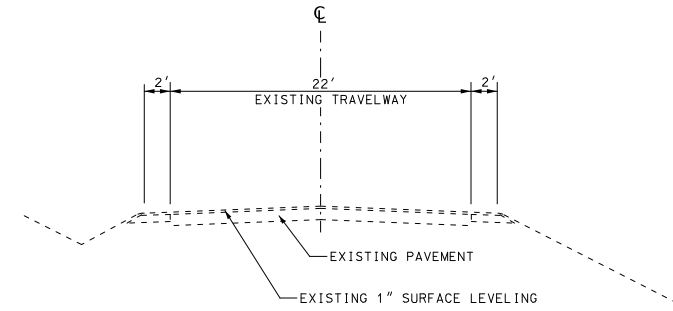
BEGINNING OF PROJECT	STA. 524 + 80.00
END OF PROJECT	STA. 532 + 38.69
APPARENT LENGTH	758.69 FEET
EQUATIONS AND EXCEPTIONS:	
ROUTE 87 EQUATION:	
STA. 530+73.80 BK =	
STA. 531+08.20 AH	
TOTAL CORRECTIONS	-34.4 FEET
NET LENGTH OF PROJECT	724.29 FEET
STATE LENGTH	0.137 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	2.3 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

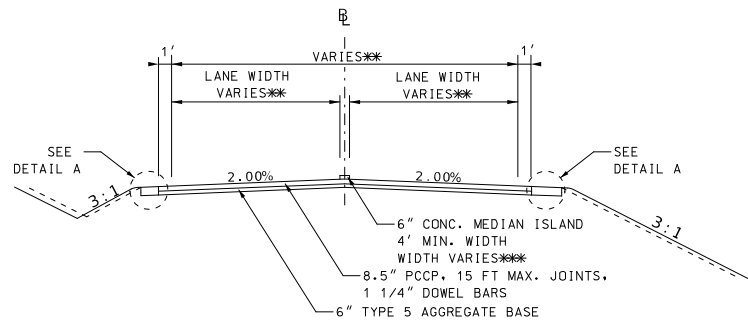
**MoDOT**

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

DATE	DESCRIPTION

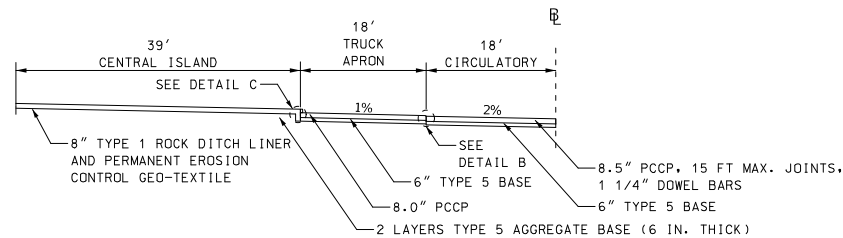


**EXISTING ROUTE 87 TYPICAL SECTION**  
 ROUTE 87 STATION 524+80.00 - 532+38.69  
**EXISTING ROUTE C TYPICAL SECTION**  
 ROUTE C STATION 296+60.00 - 303+78.89

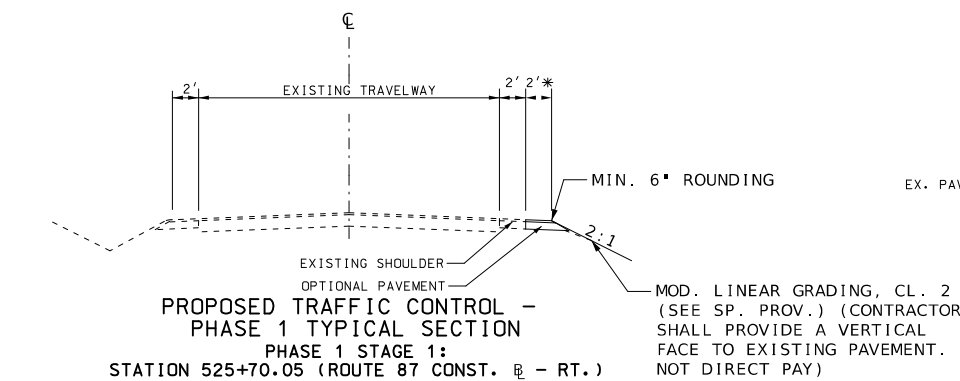


**PROPOSED ROUTE 87 & ROUTE C CONSTRUCTION APPROACH TYPICAL SECTION**

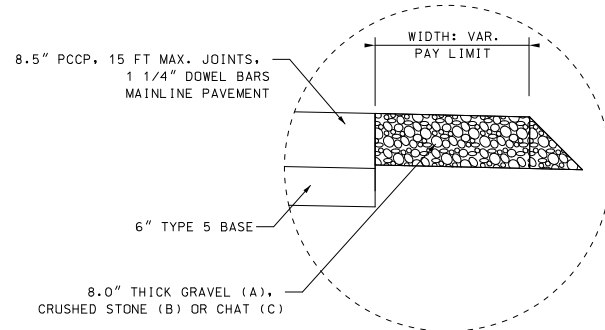
ROUTE 87 NORTH APPROACH	STATION 0+00.00 - 2+67.00 (ROUTE 87 CONST. ☐)
ROUTE 87 SOUTH APPROACH	STATION 4+18.00 - 7+20.00 (ROUTE 87 CONST. ☐)
ROUTE C WEST APPROACH	STATION 0+00.00 - 2+69.30 (ROUTE C CONST. ☐)
ROUTE C EAST APPROACH	STATION 4+21.52 - 7+20.00 (ROUTE C CONST. ☐)



**PROPOSED ROUNDABOUT TYPICAL SECTION**  
 ROUNDABOUT CIRCULATORY ☐ STATION 0+00.00 - 4+71.24



**PROPOSED TRAFFIC CONTROL - PHASE 1 TYPICAL SECTION**  
 PHASE 1 STAGE 1:  
 STATION 525+70.05 (ROUTE 87 CONST. ☐ - RT.) TO STATION 299+45.47 (ROUTE C CONST. ☐ LT.)  
 PHASE 1 STAGE 2:  
 STATION 297+55.44 (ROUTE C CONST. ☐ - RT.) TO STATION 531+61.97 (ROUTE 87 CONST. ☐ - RT.)  
 PHASE 1 STAGE 3:  
 STATION 300+49.36 (ROUTE C CONST. ☐ - LT.) TO STATION 303+78.94 (ROUTE C CONST. ☐ - LT.)  
 \*STATION 300+49.36 - 301+08.95 (ROUTE C CONST. ☐): 4' WIDTH



**AGGREGATE SHOULDER**

ROUTE 87 NORTH APPROACH	STATION 0+96.72 - 2+41.00 (ROUTE 87 CONST. ☐)
ROUTE 87 NORTH APPROACH	STATION 1+40.44 - 1+76.18 (ROUTE 87 CONST. ☐)
ROUTE 87 SOUTH APPROACH	STATION 4+52.39 - 6+39.06 (ROUTE 87 CONST. ☐)
ROUTE C WEST APPROACH	STATION 1+12.41 - 2+04.93 (ROUTE C CONST. ☐)
ROUTE C EAST APPROACH	STATION 5+01.58 - 6+52.21 (ROUTE C CONST. ☐)
ROUTE C EAST APPROACH	STATION 5+29.49 - 6+36.04 (ROUTE C CONST. ☐)

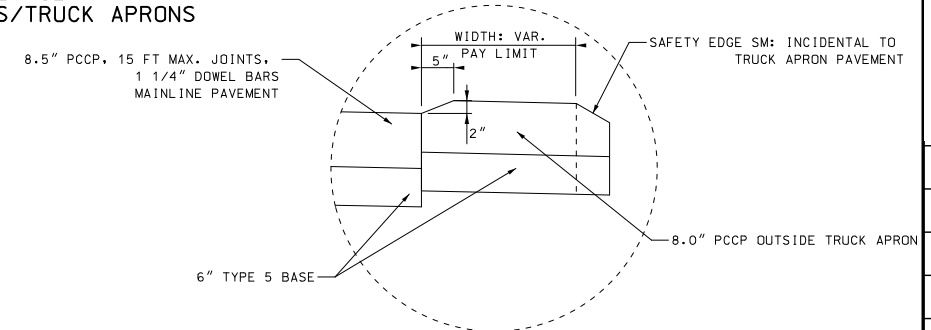
\*\* TOTAL WIDTH AND LANE WIDTH VARY BASED ON PAVEMENT MARKING AND APPROACH GEOMETRY THROUGHOUT THE LENGTH OF THE APPROACH

MINIMUM PAVED WIDTH: 14'  
 MINIMUM OVERALL WIDTH: 16'  
 (WITH TRUCK APRON OR AGG. SHLDR.)

\*\*\* SPLITTER ISLANDS:

ROUTE 87 NORTH APPROACH	STATION 1+40.64 - 2+65.65 (ROUTE 87 CONST. ☐)
ROUTE 87 SOUTH APPROACH	STATION 4+18.38 - 5+47.20 (ROUTE 87 CONST. ☐)
ROUTE C WEST APPROACH	STATION 1+85.10 - 2+68.15 (ROUTE C CONST. ☐)
ROUTE C EAST APPROACH	STATION 4+20.63 - 5+95.98 (ROUTE C CONST. ☐)

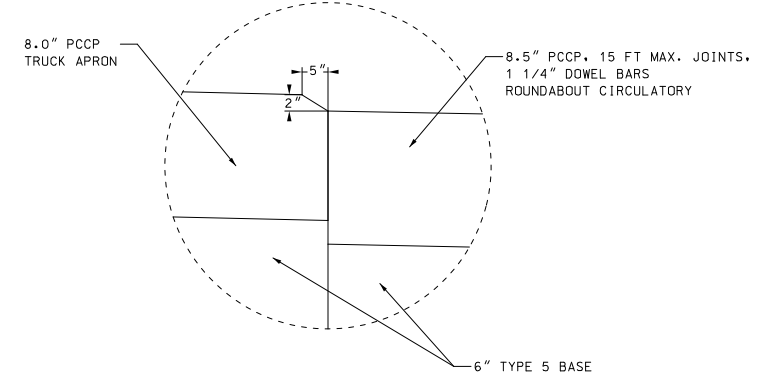
**DETAIL A SHOULDERS/TRUCK APRONS**



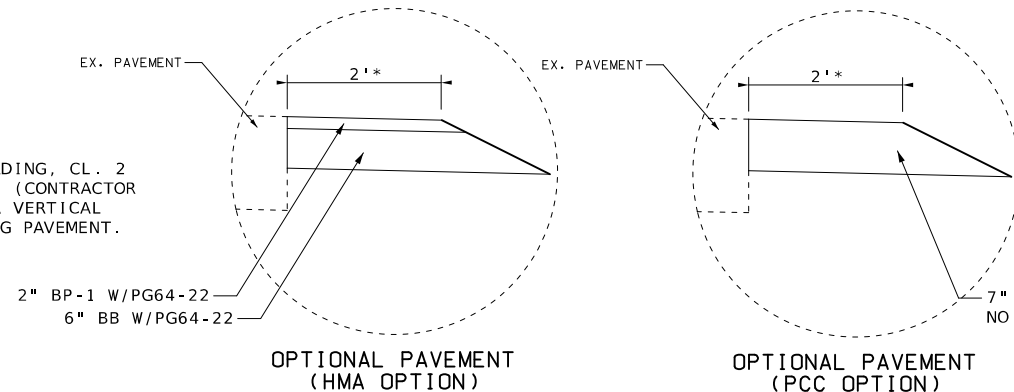
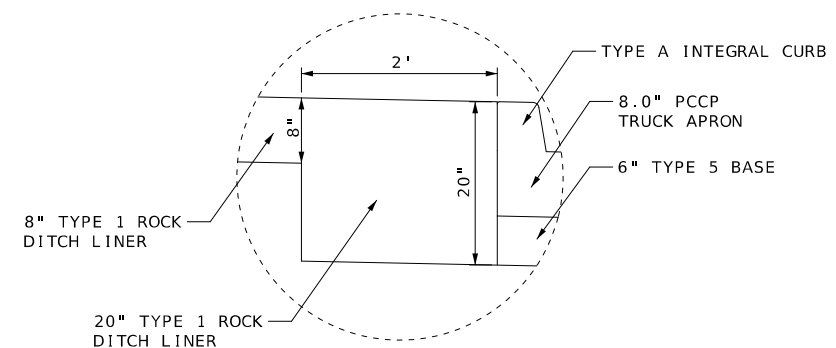
**OUTSIDE TRUCK APRON**

ROUTE C EB TO ROUTE 87 SB	STATION 1+62.87 (ROUTE C CONST. ☐) TO
OUTSIDE TRUCK APRON	STATION 4+52.39 (ROUTE 87 CONST. ☐)
ROUTE 87 NB TO ROUTE C EB	STATION 5+23.40 (ROUTE 87 CONST. ☐) TO
OUTSIDE TRUCK APRON	STATION 4+56.47 (ROUTE C CONST. ☐)
ROUTE C WB TO ROUTE 87 NB	STATION 5+01.58 (ROUTE C CONST. ☐) TO
OUTSIDE TRUCK APRON	STATION 1+76.18 (ROUTE 87 CONST. ☐)

**DETAIL B CIRCULATORY TRUCK APRON**

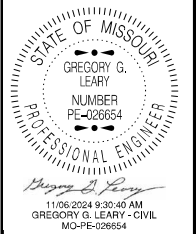


**DETAIL C ROCK DITCH LINER**



**EXISTING AND PROPOSED TYPICAL SECTIONS**  
 TYPICAL SHEET  
 SHEET 1 OF 1

NOT TO SCALE



DATE PREPARED  
 11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 2

COUNTY  
MONITEAU

JOB NO.  
JCD0113

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)



**MOBILIZATION**

1 LUMP SUM

**CONTRACTOR FURNISHED SURVEYING AND STAKING**

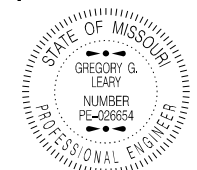
1 LUMP SUM

**REMOVAL OF IMPROVEMENTS**

SHEET	STA	TO	STA	LOCATION	ITEM	QUANTITY	REMARKS
SS 1	524+80.00		532+38.69	EX. ROUTE 87 CL.	FULL DEPTH PAVEMENT	4800 SY	ALL EXISTING PAVEMENT WITHIN PROJECT LIMITS
SS 1	296+60.00		303+78.89	EX. ROUTE C CL.	SAW CUT	26 LF	MAINLINE SAW CUT
SS 1	524+80.00			EX. ROUTE 87 CL.	SAW CUT	25 LF	MAINLINE SAW CUT
SS 1	532+38.69			EX. ROUTE 87 CL.	SAW CUT	24 LF	MAINLINE SAW CUT
SS 1	296+60.07			EX. ROUTE C CL.	SAW CUT	24 LF	MAINLINE SAW CUT
SS 1	303+78.89			EX. ROUTE C CL.	SAW CUT	24 LF	MAINLINE SAW CUT
SS 1	525+25.76			EX. ROUTE 87 CL. - RT.	12" CMP	61 LF	SQMO OWNER 3 LLC RTE. 87 ENTRANCE PIPE
SS 1	525+25.76			EX. ROUTE 87 CL. - RT.	FULL DEPTH PAVEMENT	132 SY	SQMO OWNER 3 LLC RTE. 87 ENTRANCE
SS 1	525+25.76			EX. ROUTE 87 CL. - RT.	SAW CUT	39 LF	SQMO OWNER 3 LLC RTE. 87 ENT. SAW CUT
SS 1	529+00.00			EX. ROUTE 87 CL.	18" CMP	47 LF	ROUTE 87 CROSS ROAD PIPE
SS 1	531+77.79			EX. ROUTE 87 CL. - RT.	12" CMP	29 LF	RAMER BROTHERS LLC RTE. 87 ENTRANCE PIPE
SS 1	531+77.79			EX. ROUTE 87 CL. - RT.	FULL DEPTH PAVEMENT	35 SY	RAMER BROTHERS LLC RTE. 87 ENTRANCE
SS 1	531+77.79			EX. ROUTE 87 CL. - RT.	SAW CUT	22 LF	RAMER BROTHERS LLC RTE. 87 ENT. SAW CUT
SS 1	297+36.10			EX. ROUTE C CL. - LT.	12" CMP	63 LF	SQMO OWNER 3 LLC RTE. C ENTRANCE PIPE
SS 1	297+36.10			EX. ROUTE C CL. - LT.	FULL DEPTH PAVEMENT	130 SY	SQMO OWNER 3 LLC RTE. C ENTRANCE
SS 1	297+36.10			EX. ROUTE C CL. - LT.	SAW CUT	40 LF	SQMO OWNER 3 LLC RTE. C ENT. SAW CUT
SS 1	297+41.90			EX. ROUTE C CL. - RT.	15" CMP	62 LF	RAMER BROTHERS LLC RTE. C ENTRANCE PIPE
SS 1	297+41.90			EX. ROUTE C CL. - RT.	FULL DEPTH PAVEMENT	91 SY	RAMER BROTHERS LLC RTE. C ENTRANCE
SS 1	297+41.90			EX. ROUTE C CL. - RT.	SAW CUT	26 LF	RAMER BROTHERS LLC RTE. C ENT. SAW CUT
SS 1	298+89.00			EX. ROUTE C CL. - LT.	PULL BOX	1 EA.	
SS 1	299+54.75			EX. ROUTE C CL. - LT.	SIGNAL POLE AND FOUNDATION	1 EA.	INCLUDING SIGNAL HEADS, SPAN WIRES, CONDUIT - SEE JSPs
SS 1	300+43.00			EX. ROUTE C CL. - RT.	SIGNAL POLE AND FOUNDATION	1 EA.	INCLUDING SIGNAL HEADS, SPAN WIRES, CONDUIT - SEE JSPs
SS 1	300+51.75			EX. ROUTE C CL. - RT.	PULL BOX	1 EA.	
SN 3	520+94.65			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CROSS ROAD
SN 3	523+69.54			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	40 MPH ADVISORY SPEED - CURVE LEFT
SN 3	524+54.37			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	526+03.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 1	526+27.50			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	527+19.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	527+28.00			EX. ROUTE 87 CL. - RT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	528+91.00			EX. ROUTE 87 CL. - LT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	529+43.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	530+15.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	531+32.50			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 1	531+76.00			EX. ROUTE 87 CL. - LT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 4	532+15.25			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	CHEVRON
SN 4	535+59.00			EX. ROUTE 87 CL. - LT.	1 SIGN AND 1 POST	1 EA.	CROSS ROAD
SN 4	536+89.00			EX. ROUTE 87 CL. - RT.	1 SIGN AND 1 POST	1 EA.	40 MPH ADVISORY SPEED - CURVE RIGHT
SN 5	285+60.00			EX. ROUTE C CL. - RT.	1 SIGN AND 1 POST	1 EA.	STOP SIGN AHEAD
SN 5	295+79.00			EX. ROUTE C CL. - RT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 1	299+41.00			EX. ROUTE C CL. - RT.	1 SIGN	1 EA.	DO NOT ENTER
SN 1	299+47.00			EX. ROUTE C CL. - LT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	299+74.00			EX. ROUTE C CL. - RT.	2 SIGNS AND 1 POST	1 EA.	STOP AND CROSS TRAFFIC DOES NOT STOP
SN 1	300+72.50			EX. ROUTE C CL. - LT.	2 SIGNS AND 1 POST	1 EA.	STOP AND CROSS TRAFFIC DOES NOT STOP
SN 1	300+74.00			EX. ROUTE C CL. - RT.	4 SIGNS AND 1 POST	1 EA.	ROUTE PLAQUES AND DIRECTIONAL ARROWS
SN 1	301+92.00			EX. ROUTE C CL. - RT.	1 SIGN AND 1 POST	1 EA.	ADOPT-A-HIGHWAY SIGN
SN 1	304+10.00			EX. ROUTE C CL. - LT.	1 SIGN AND 2 POSTS	1 EA.	DESTINATION BOARD
SN 6	314+15.00			EX. ROUTE C CL. - LT.	1 SIGN AND 1 POST	1 EA.	STOP SIGN AHEAD
TC 13	300+49.39		303+78.94	ROUTE C EX. CL.	FULL DEPTH PAVEMENT	96 SY	TEMPORARY PAVEMENT FROM PHASE 1
TC 3	525+70.05		299+45.47	EX. ROUTE 87 CL. TO ROUTE C EX. CL.	FULL DEPTH PAVEMENT	58 SY	TEMPORARY PAVEMENT FROM PHASE 1
TC 4	294+55.44		531+63.97	EX. ROUTE C CL. TO ROUTE 87 EX. CL.	FULL DEPTH PAVEMENT	107 SY	TEMPORARY PAVEMENT FROM PHASE 1
				<b>TOTAL</b>		<b>1 LUMP SUM</b>	

**RIGHT OF WAY MARKERS (NON CONTRACT)**

TO BE INSTALLED BY OTHERS



11/06/2024 9:30:11 AM  
 GREGORY G. LEARY - CIVIL  
 JAC-E-22884  
 MISSOURI

11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 3

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



GRADING

PHASE	STATION TO	STATION	ALIGNMENT	CLASS A EXC.	CLASS 3 EXC.	COMPACTING EMBANKMENT*	EMBANKMENT IN PLACE	REMARKS
				CY	CY	CY	CY	
2	4+18.00	7+20.00	ROUTE 87 CONST. B.L. - LT.	53	-	46	108	OBTAIN 1146 CY
	3+94.30	0+29.63	ROUNDAABOUT CIRCULATORY B.L. (STA 4+71.24 = STA 0+00.00)	2	-	2	466	FROM
	4+21.52	7+20.00	ROUTE C CONST. B.L. - RT.	34	-	29	572	OFF R/W
4	4+21.52	7+20.00	ROUTE C CONST. B.L. - LT.	60	-	51	497	OBTAIN 1267 CY
	0+29.64	1+50.71	ROUNDAABOUT CIRCULATORY B.L.	0	-	0	508	FROM
	0+00.00	2+67.00	ROUTE 87 CONST. B.L. - LT.	71	-	61	262	OFF R/W
5	0+00.00	1+00.00	ROUTE 87 CONST. B.L. - RT.	19	-	17	0	PLACE 60 CY
	6+20.00	7+20.00	ROUTE 87 CONST. B.L. - RT.	50	-	43	0	ON PHASE 6
	1+00.00	2+67.00	ROUTE 87 CONST. B.L. - RT.	114	-	97	0	PLACE 80 CY IN CIRCULATORY
6	1+50.72	2+81.81	ROUNDAABOUT CIRCULATORY B.L.	9	-	8	40	OBTAIN 40 CY FROM OFF R/W
	0+00.00	2+69.30	ROUTE C CONST. B.L. - LT.	136	-	116	0	PLACE 65 CY IN CIRCULATORY
	0+00.00	2+69.30	ROUTE C CONST. B.L. - RT.	207	-	176	0	PLACE 161 CY IN CIRCULATORY
7	2+81.82	3+94.29	ROUNDAABOUT CIRCULATORY B.L.	16	-	14	0	DISPOSE 145 CY
	4+18.00	6+20.00	ROUTE 87 CONST. B.L. - RT.	235	-	200	0	OFF R/W
	2+35.94	-	ROUTE 87	-	37	-	-	18" CROSSROAD PIPE
	4+38.58	-	ROUTE 87	-	42	-	-	24" CROSSROAD PIPE
	6+39.21	6+85.28	RAMER BROTHERS LLC ROUTE 87 ENTRANCE	-	6.8	-	-	RT. 87 CONST. BL.
	0+34.20	1+09.71	SQMO OWNER 3 LLC ROUTE C ENTRANCE	-	10.9	-	-	RT. C CONST. BL.
	0+37.11	1+13.24	RAMER BROTHERS LLC ROUTE C ENTRANCE	-	5.8	-	-	RT. C CONST. BL.
TOTAL				1006	103	860	2453	*15% SHRINKAGE FACTOR

CONCRETE PAVEMENT (8.5 IN. NON-REINFORCED, 15 FT. JOINTS) - MAINLINE

SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
PP 1	0+00.00	2+67.00	NORTH APPROACH	267	VARIES	1165.3	ROUTE 87 CONST. BL.
PP 2	4+18.00	7+20.00	SOUTH APPROACH	302	VARIES	1185.4	ROUTE 87 CONST. BL.
PP 3	0+00.00	2+69.30	WEST APPROACH	269	VARIES	1053.5	ROUTE C CONST. BL.
PP 4	4+21.52	7+20.00	EAST APPROACH	298	VARIES	1212.0	ROUTE C CONST. BL.
PP 1	0+00.00	4+71.24	CIRCULATORY	471	VARIES	1093.5	ROUNDAABOUT CIRCULATORY BL.
TOTAL						5709.7	

TRUCK APRON PAVEMENT

SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
PP 1	0+00.00	4+71.24	ROUNDAABOUT CIRCULATORY	VARIES	18	603.2	
TOTAL						603.2	

CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS) - PAVED APPROACH & OUTSIDE TRUCK APRON

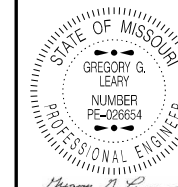
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
SS 11	525+25.76	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	146.8	SQMO OWNER 3 LLC ROUTE 87 ENTRANCE
SS 11	531+77.79	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	43.9	RAMER BROTHERS LLC ROUTE 87 ENTRANCE
SS 12	297+36.10	-	ROUTE C EX. CL. - LT.	VARIES	VARIES	149.2	SQMO OWNER 3 LLC ROUTE C ENTRANCE
SS 12	297+41.90	-	ROUTE C EX. CL. - RT.	VARIES	VARIES	119.5	RAMER BROTHERS LLC ROUTE C ENTRANCE
PP 1	-	-	RT. C WB TO RT. 87 NB	VARIES	VARIES	119.3	C WB TO 87 NB OUTSIDE TRUCK APRON
PP 1	-	-	RT. 87 NB TO RT. C EB	VARIES	VARIES	67.6	87 NB TO C EB OUTSIDE TRUCK APRON
PP 1	-	-	RT. C EB TO RT. 87 SB	VARIES	VARIES	74.4	C EB TO 87 SB OUTSIDE TRUCK APRON
TOTAL						720.7	

GRAVEL (A), CRUSHED STONE (B), OR CHAT (C)

SHEET NUMBER	STATION	STATION	LOCATION	AREA SY	DEPTH IN	QTY TON	REMARKS
PP 1	0+96.72	2+41.00	NORTH APPROACH	63	8.0	28	ROUTE 87 CONST. BL. - RT.
PP 1	1+40.44	1+76.18	NORTH APPROACH	7.6	8.0	4	ROUTE 87 CONST. BL. - LT.
PP 2	4+52.39	6+39.06	SOUTH APPROACH	58	8.0	26	ROUTE 87 CONST. BL. - LT.
PP 3	1+12.41	2+04.93	WEST APPROACH	20.2	8.0	9	ROUTE C CONST. BL. - RT.
PP 4	5+01.58	6+52.21	EAST APPROACH	46.7	8.0	21	ROUTE C CONST. BL. - LT.
PP 4	5+29.49	6+36.04	EAST APPROACH	23.4	8.0	10	ROUTE C CONST. BL. - RT.
TOTAL						98	ESTIMATED AT 2 TONS/CY - MEASURED FROM TOP AREA

TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)

STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS	
0+00.00	2+67.00	MAINLINE - NORTH APPROACH	267	VARIES	1165.3	ROUTE 87 CONST. BL.	
4+18.00	7+20.00	MAINLINE - SOUTH APPROACH	302	VARIES	1185.4	ROUTE 87 CONST. BL.	
0+00.00	2+69.30	MAINLINE - WEST APPROACH	269	VARIES	1053.5	ROUTE C CONST. BL.	
4+21.52	7+20.00	MAINLINE - EAST APPROACH	298	VARIES	1212.0	ROUTE C CONST. BL.	
0+00.00	4+71.24	CIRCULATORY	471	18	1093.5		
-	-	TRUCK APRON - RT. C WB TO RT. 87 NB	VARIES	VARIES	119.3	OUTSIDE TRUCK APRON	
-	-	TRUCK APRON - RT. 87 NB TO RT. C EB	VARIES	VARIES	67.6	OUTSIDE TRUCK APRON	
-	-	TRUCK APRON - RT. C EB TO RT. 87 SB	VARIES	VARIES	74.4	OUTSIDE TRUCK APRON	
0+00.00	4+71.24	TRUCK APRON - CIRCULATORY	VARIES	18	603.2		
TOTAL						6575	



11/05/2024 9:28:43 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED  
 11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 3

COUNTY MONITEAU  
 JOB NO. JCD0113  
 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)

TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)						
STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
525+25.76	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	146.8	SQMO OWNER 3 LLC ROUTE 87 ENTRANCE
531+77.79	-	ROUTE 87 EX. CL. - RT.	VARIES	VARIES	43.9	RAMER BROTHERS LLC ROUTE 87 ENTRANCE
297+36.10	-	ROUTE C EX. CL. - LT.	VARIES	VARIES	149.2	SQMO OWNER 3 LLC ROUTE C ENTRANCE
297+41.90	-	ROUTE C EX. CL. - RT.	VARIES	VARIES	119.5	RAMER BROTHERS LLC ROUTE C ENTRANCE
				TOTAL	460	

6 IN. CONCRETE MEDIAN STRIP							
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	WIDTH FT	AREA SY	REMARKS
PP 1	1+40.64	2+65.62	NORTH APPROACH	125	VARIES	134.0	ROUTE 87 CONST. BL.
PP 2	4+18.42	5+47.20	SOUTH APPROACH	129	VARIES	158.0	ROUTE 87 CONST. BL.
PP 3	1+85.10	2+68.10	WEST APPROACH	83	VARIES	131.0	ROUTE C CONST. BL.
PP 4	4+20.67	5+95.98	EAST APPROACH	175	VARIES	179.0	ROUTE C CONST. BL.
					TOTAL	602.0	

6 IN. TYPE A INTEGRAL CURB					
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT	REMARKS
PP 1	0+00.00	4+71.24	CENTRAL ISLAND	245	ROUNDAABOUT CIRCULATORY BL.
			TOTAL	245	

TYPE 1 ROCK DITCH LINER							
SHEET NUMBER	STATION	STATION	LOCATION	FURNISHING TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	PERMANENT EROSION CONTROL GEOTEXTILE SY	REMARKS
PP 1	0+00.00	4+71.24	CENTRAL ISLAND	118	118	531	ROUNDAABOUT CIRCULATORY BL.
PP 1	0+00.00	4+71.24	CENTRAL ISLAND EDGE DRAIN	19	19	-	SEE TS SHEET 1 FOR DETAIL
			TOTAL	137	137	531	

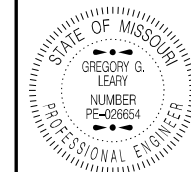
TRANSVERSE RUMBLE			
SHEET NUMBER	STATION	LOCATION	QTY EA
SN 3	518+49.18	ROUTE 87	1
SN 3	522+49.16	ROUTE 87	1
SN 4	534+29.17	ROUTE 87	1
SN 4	538+29.17	ROUTE 87	1
		TOTAL	4

DRAINAGE											
SHEET NUMBER	STATION	LOCATION	12" GROUP B PIPE LF	12" GROUP B FES EA	15" GROUP B PIPE LF	15" GROUP B FES EA	18" GROUP B PIPE LF	18" GROUP B FES EA	24" GROUP B PIPE LF	24" GROUP B FES EA	REMARKS
CS 1	2+35.94	ROUTE 87	-	-	-	-	85	2	-	-	RT. 87 CONST. BL.
CS 1	4+38.58	ROUTE 87	-	-	-	-	-	-	86	2	RT. 87 CONST. BL.
SS 11	6+39.21	RAMER BROTHERS LLC ROUTE 87 ENTRANCE	43	2	-	-	-	-	-	-	RT. 87 CONST. BL.
SS 12	0+34.20	SQMO OWNER 3 LLC ROUTE C ENTRANCE	-	-	-	-	69	2	-	-	RT. C CONST. BL.
SS 12	0+37.11	RAMER BROTHERS LLC ROUTE C ENTRANCE	-	-	73	2	-	-	-	-	RT. C CONST. BL.
		TOTAL	43	2	73	2	154	4	86	2	

TEMPORARY SHOULDER WIDENING							
SHEET NUMBER	STATION	STATION	LOCATION	LENGTH FT.	MODIFIED LINEAR GRADING, CL. 2 STA.	FULL DEPTH OPTIONAL PAVEMENT SY	REMARKS
TC 5	300+49.36	303+78.94	ROUTE C - LT.	335	3.4	96	ROUTE C EX. CL.
TC 3	525+70.05	299+45.47	ROUTE 87 - RT. TO ROUTE C LT.	260	2.6	58	ROUTE 87 EX. CL. TO ROUTE C. EX. CL.
TC 4	297+55.44	531+61.97	ROUTE C RT. TO ROUTE 87 RT.	481	4.8	107	ROUTE C EX. CL. TO ROUTE 87 EX. CL.
			TOTAL	10.8		261	

TEMPORARY TRAFFIC SIGNALS AND LIGHTING										
SHEET NUMBER	STATION	OFFSET	ALIGNMENT	SIGNAL			TRAFFIC DETECTION EA	LIGHTING		REMARKS
				PORTABLE SIGNAL POLE EA	CONTROLLER EA	SIGNAL HEAD EA		LUMINAIRE 150W (EQ.) EA	BRACKET ARM 6' EA	
TC 6	527+84.00	125.95 RT.	ROUTE 87 EX. C.L.	-	1	-	-	-	-	
TC 7	305+60.00	16.25 LT./16.00 RT.	ROUTE C EX. C.L.	2	-	2	1	2	2	EAST APPROACH
TC 8	532+67.00	15.50' LT./17.50' RT.	ROUTE 87 EX. C.L.	2	-	2	1	2	2	SOUTH APPROACH
TC 8	531+95.00	17.00' RT.	ROUTE 87 EX. C.L.	1	-	1	-	1	1	SOUTH APPROACH - ENTRANCE
TC 6	527+00.00	21.50' LT./15.25' RT.	ROUTE 87 EX. C.L.	2	-	2	1	2	2	NORTH APPROACH - PHASE 2 - 3
TC 9	523+00.00	16.25' LT./17.25' RT.	ROUTE 87 EX. C.L.	-	-	-	-	-	-	NORTH APPROACH - PHASE 4 - 7 (RELOCATED)
TC 9	524+85.00	15.50' RT.	ROUTE 87 EX. C.L.	1	-	1	-	1	1	NORTH APPROACH - ENTRANCE
TC 6	298+40.00	17.25' LT./15.50' RT.	ROUTE C EX. C.L.	2	-	2	1	2	2	WEST APPROACH - PHASE 2 - 5
TC 10	295+80.00	15.25' LT./15.75' RT.	ROUTE C EX. C.L.	-	-	-	-	-	-	WEST APPROACH - PHASE 6 - 7 (RELOCATED)
TC 6	297+60.00	15.40' RT.	ROUTE C EX. C.L.	1	-	1	1	1	1	WEST APPROACH - ENTRANCE
TC 6	297+70.00	16.50' LT.	ROUTE C EX. C.L.	-	-	-	-	-	-	WEST APPROACH - ENTRANCE (RELOCATED FROM 297+60.00/15.40' RT.)
			TOTAL	11	1	11	5	11	11	
			USE			1 LUMP SUM				

SUMMARY OF QUANTITIES  
SHEET 3 OF 7



11/06/2024 9:44:18 AM  
GREGORY G. LEARY - CIVIL  
MOPE-026654  
DATE PREPARED

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 3

COUNTY MONITEAU  
JOB NO. JCD0113  
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

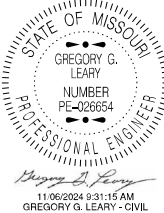


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL				
STATION	LOCATION	ALTERNATE DITCH CHECK LF	SEDIMENT REMOVAL CY	REMARKS
0+08.36	RTE C CONST BL - LT	8	0.2	NW QUADRANT
1+25.78	RTE C CONST BL - LT	8	0.2	NW QUADRANT
2+39.94	RTE C CONST BL - LT	8	0.2	NW QUADRANT
2+40.53	RTE 87 CONST BL - RT	8	0.2	NW QUADRANT
2+31.39	RTE 87 CONST BL - RT	8	0.2	NW QUADRANT
0+00.00	RTE 87 CONST BL - RT	8	0.2	NW QUADRANT
0+00.55	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
0+26.37	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
0+56.30	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
0+88.03	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
1+19.90	RTE 87 CONST BL - LT	8	0.2	NE QUADRANT
1+46.71	RTE 87 CONST BL - LT	12	0.3	NE QUADRANT
1+73.10	RTE 87 CONST BL - LT	12	0.3	NE QUADRANT
2+39.13	RTE 87 CONST BL - LT	12	0.3	NE QUADRANT
5+05.57	RTE C CONST BL - LT	8	0.2	NE QUADRANT
5+29.33	RTE C CONST BL - LT	8	0.2	NE QUADRANT
5+53.19	RTE C CONST BL - LT	8	0.2	NE QUADRANT
6+48.04	RTE C CONST BL - LT	8	0.2	NE QUADRANT
7+22.96	RTE C CONST BL - LT	8	0.2	NE QUADRANT
0+22.69	RTE C CONST BL - RT	8	0.2	SW QUADRANT
1+67.75	RTE C CONST BL - RT	8	0.2	SW QUADRANT
2+45.78	RTE C CONST BL - RT	8	0.2	SW QUADRANT
4+32.24	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
4+40.65	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
5+76.41	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
6+92.36	RTE 87 CONST BL - RT	8	0.2	SW QUADRANT
6+70.08	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
6+33.09	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
5+94.43	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
5+56.81	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
5+20.06	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
4+75.89	RTE 87 CONST BL - LT	8	0.2	SE QUADRANT
4+41.34	RTE 87 CONST BL - LT	12	0.3	SE QUADRANT
4+19.60	RTE C CONST BL - RT	12	0.3	SE QUADRANT
4+50.02	RTE C CONST BL - RT	12	0.3	SE QUADRANT
4+81.67	RTE C CONST BL - RT	12	0.3	SE QUADRANT
5+14.52	RTE C CONST BL - RT	8	0.2	SE QUADRANT
5+52.95	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+04.28	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+29.34	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+54.22	RTE C CONST BL - RT	8	0.2	SE QUADRANT
6+79.32	RTE C CONST BL - RT	8	0.2	SE QUADRANT
7+04.40	RTE C CONST BL - RT	8	0.2	SE QUADRANT
7+29.34	RTE C CONST BL - RT	8	0.2	SE QUADRANT
	TOTAL	380	10	
	USE	380	10	

ADDITIONAL MOBILIZATION FOR SEEDING
4 EA

SEEDING AND MULCHING					
STATION	TO	STATION	LOCATION	QTY AC	REMARKS
0+00.00		7+20.00	ROUTE 87 CONST. B.L. - LT. TO ROUTE C CONST. B.L. - LT.	0.18	NE DITCH
7+20.00		7+20.00	ROUTE 87 CONST. B.L. - LT. TO ROUTE C CONST. B.L. - RT.	0.18	SE DITCH
0+00.00		7+20.00	ROUTE C CONST. B.L. - RT. TO ROUTE 87 CONST. B.L. - RT.	0.17	SW DITCH
0+00.00		0+00.00	ROUTE C CONST. B.L. - LT. TO ROUTE 87 CONST. B.L. - RT.	0.16	NW DITCH
			TOTAL	0.69	
			USE	1 LUMP SUM	



DATE PREPARED  
**11/5/2024**

ROUTE <b>87</b>	STATE <b>MO</b>
DISTRICT <b>CD</b>	SHEET NO. <b>3</b>

COUNTY  
**MONITEAU**

JOB NO.  
**JCD0113**


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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

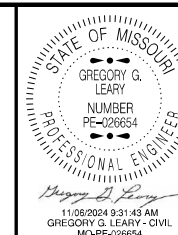


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

LIGHTING - CONDUIT AND CABLE											
STATION FROM	TO	SYSTEM/ CIRCUIT	CENTER TO CENTER DISTANCE (FT.)	2" RIGID CONDUIT TRENCHED (FT.)	3" RIGID CONDUIT TRENCHED (FT.)	3" RIGID CONDUIT PUSHED (FT.)	1" CABLE CONDUIT 2c-#8 AWG (FT.)	TRENCHING TYPE I (FT.)	POLE & BRACKET CABLE 1c-#10 AWG (FT.)	POWER CABLE 1c-#2 AWG (FT.)	REMARKS
POWER SUPPLY	CONTROLLER		8	16						72	3 RUNS OF 24' #2 AWG CABLE
CONTROLLER	P.B. 1	A	51		54		62				
P.B. 1	A1	A	63				75	61	72		INCLUDES A1 POLE AND BRACKET ARM CABLE
A1	A2	A	129				146	127	72		INCLUDES A2 POLE AND BRACKET ARM CABLE
A2	P.B. 2	A	48			46	56				
P.B. 2	A3	A	143				159	141	72		INCLUDES A3 POLE AND BRACKET ARM CABLE
A3	A4	A	179				199	177	72		INCLUDES A4 POLE AND BRACKET ARM CABLE
CONTROLLER	P.B. 1	B	51				62				CONDUIT INCLUDED IN CIRCUIT A
P.B. 1	P.B. 3	B	118				131	116			
P.B. 3	B1	B	44			42	52		72		INCLUDED B1 POLE AND BRACKET ARM CABLE
B1	B2	B	341				369	339	72		INCLUDED B2 POLE AND BRACKET ARM CABLE
B2	P.B. 4	B	37			35	45				
P.B. 4	B3	B	177				195	175	72		INCLUDES B3 POLE AND BRACKET ARM CABLE
			TOTAL	16	54	123	1551	1136	504	72	
			USE	16	54	123	1560	1136	510	80	

POWER SUPPLY ASSEMBLIES, TYPE 2 240/120 VOLT SERVICE, LIGHTING ONLY										
CONTROLLER NUMBER	APPROACH	STATION	OFFSET	DRAWING 901.80 TYPE 2	CIRCUIT BREAKER TRIP RATING				POWER SUPPLY DISCONNECT MAIN BREAKER	
					CIRCUIT 1	CIRCUIT 2	CIRCUIT 3	CIRCUIT 4	SIGNALS	LIGHTING
1	RTE. 87 BL.	3+06.66	139.94' RT	1	15 Amps	15 Amps				100 Amps
			TOTAL	1						

LIGHTING EQUIPMENT											
POLE NO.	PULL BOX NO.	STATION	OFFSET FT.	LOCATION	240V - 4 CIRC. BASE MOUNTED CONT. STATION EA.	POLE FOUNDATION 30' MOUNT HT. EA.	POLE 30' TYPE AT EA.	6' BRACKET ARM EA.	LUMINAIRE LED - A EA.	PULL BOX PERFORMED CLASS 1 EA.	REMARKS
		3+08.01	132.81' RT	ROUTE 87	1						
A1		2+67.00	40.08' RT	ROUTE 87		1	1	1	1		
A2		1+41.00	22.65' RT	ROUTE 87		1	1	1	1		
A3		4+31.00	45.39' LT	ROUTE C		1	1	1	1		
A4		6+04.00	21.36' LT	ROUTE C		1	1	1	1		
B1		1+63.00	22.54' RT	ROUTE C		1	1	1	1		
B2		6+00.00	18.85' RT	ROUTE 87		1	1	1	1		
B3		4+21.00	43.37' LT	ROUTE 87		1	1	1	1		
	1	3+12.88	82.13' RT	ROUTE 87						1	
	2	1+42.00	23.91' LT	ROUTE 87						1	
	3	1+66.07	20.27' LT	ROUTE C						1	
	4	6+00.00	18.25' LT	ROUTE 87						1	
				TOTAL	1	7	7	7	7	4	
				USE	1	7	7	7	7	4	



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DISTRICT CD SHEET NO. 3

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**PAVEMENT MARKING**

		WATERBORNE PVM'T MARKING PAINT, TYPE P BEADS			PREFORMED THERMOPLASTIC PVM'T MARKING					
STATION	TO STATION	LOCATION	4" SOLID WHITE LF	4" DOTTED WHITE LF	4" SOLID YELLOW LF	24" SOLID WHITE LF	24" SOLID YELLOW LF	12" WHITE YIELD LINE TRIANGLES EACH	24" WHITE REMOVABLE PAVEMENT MARKING TAPE LF	REMARKS
0+00.00	0+51.40	PROP CL RTE 87			102					DOUBLE YELLOW CENTERLINE
0+51.40	2+72.00	PROP CL RTE 87 - LT			224		16			SPLITTER ISLAND CENTERLINE
0+51.40	2+68.67	PROP CL RTE 87 - RT			221					SPLITTER ISLAND CENTERLINE
0+00.00	2+78.34	PROP CL RTE 87 - LT	280							EDGE LINE
0+00.00	2+89.89	PROP CL RTE 87 - RT	304							EDGE LINE
2+62.00		PROP CL RTE 87 - RT						10		
2+68.67	2+72.00	PROP CL RTE 87	43							ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND
2+68.67	2+89.89	PROP CL RTE 87 - RT		16						
2+84.09	4+00.09	PROP CL RTE 87			365					ROUNDAABOUT INSIDE EDGLINE
4+04.11	4+15.30	PROP CL RTE 87 - LT		10						
4+10.71	4+15.30	PROP CL RTE 87	48							ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND
4+22.67		PROP CL RTE 87 - LT						10		
4+04.11	7+20.00	PROP CL RTE 87 - LT	320			42				EDGE LINE
3+87.22	7+20.00	PROP CL RTE 87 - RT	348							EDGE LINE
4+15.30	6+28.79	PROP CL RTE 87 - LT			215		23			SPLITTER ISLAND CENTERLINE
4+10.71	6+28.79	PROP CL RTE 87 - RT			224					SPLITTER ISLAND CENTERLINE
6+28.79	7+20.00	PROP CL RTE 87			182					DOUBLE YELLOW CENTERLINE
0+00.00	0+71.16	PROP CL RTE C			142					DOUBLE YELLOW CENTERLINE
0+71.16	2+75.25	PROP CL RTE C - LT			210		29			SPLITTER ISLAND CENTERLINE
0+71.16	2+71.33	PROP CL RTE C - RT			202					SPLITTER ISLAND CENTERLINE
0+00.00	3+08.14	PROP CL RTE C - LT	321							EDGE LINE
0+00.00	2+85.22	PROP CL RTE C - RT	291			47				EDGE LINE
2+65.45		PROP CL RTE C - RT						10		
2+71.33	2+75.25	PROP CL RTE C	48							ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND
2+71.33	2+71.33	PROP CL RTE C - RT		12						
4+10.86	4+17.57	PROP CL RTE C - LT		10						
4+12.80	4+17.57	PROP CL RTE C	48							ROUNDAABOUT OUTSIDE EDGLINE - TOP OF SPLITTER ISLAND
4+24.75		PROP CL RTE C - LT						10		
4+10.86	7+20.00	PROP CL RTE C - LT	318			61				EDGE LINE
3+92.20	7+20.00	PROP CL RTE C - RT	338							EDGE LINE
4+17.57	6+75.84	PROP CL RTE C - LT			261		22			SPLITTER ISLAND CENTERLINE
4+12.80	6+75.84	PROP CL RTE C - RT			268					SPLITTER ISLAND CENTERLINE
6+75.84	7+20.00	PROP CL RTE C			88					DOUBLE YELLOW CENTERLINE
526+60.00		ROUTE 87 EX. C.L.							12	NORTH APPROACH STOP BAR (PHASE 2 - 3)
522+60.00		ROUTE 87 EX. C.L.							12	NORTH APPROACH STOP BAR (PHASE 4 - 7)
533+47.00		ROUTE 87 EX. C.L.							12	SOUTH APPROACH STOP BAR
298+00.00		ROUTE C EX. C.L.							12	WEST APPROACH STOP BAR (PHASE 2 - 5)
315+80.00		ROUTE C EX. C.L.							12	WEST APPROACH STOP BAR (PHASE 6 - 7)
306+40.00		ROUTE C EX. C.L.							12	EAST APPROACH STOP BAR
		<b>TOTAL =</b>	<b>2707</b>	<b>48</b>	<b>2704</b>	<b>150</b>	<b>90</b>	<b>40</b>	<b>72</b>	
		<b>USE</b>	<b>2755</b>		<b>2704</b>	<b>150</b>	<b>90</b>	<b>40</b>		



GREGORY G. LEARY  
NUMBER PE-026654  
PROFESSIONAL ENGINEER

11/06/2024 9:44:01 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED


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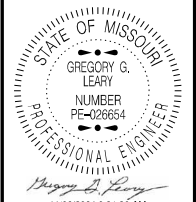
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 

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

**36 IN. SURFACE-MOUNT DELINEATOR POST**

SHEET NUMBER	STATION	LOCATION	36 IN. SURFACE MOUNT DELINEATOR POST EA	REMARKS
PM 1	1+41.64	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	1+99.01	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	2+02.07	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	2+62.25	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	2+64.50	ROUTE 87 NORTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	4+19.75	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	4+21.00	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	4+75.00	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	2	ROUTE 87 CONST. BL.
PM 1	5+46.75	ROUTE 87 SOUTH APPROACH SPLITTER ISLAND	1	ROUTE 87 CONST. BL.
PM 1	1+85.75	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+24.57	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+27.24	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+65.00	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	2+67.00	ROUTE C WEST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	4+22.00	ROUTE C EAST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	4+23.25	ROUTE C EAST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
PM 1	5+00.00	ROUTE C EAST APPROACH SPLITTER ISLAND	2	ROUTE C CONST. BL.
PM 1	5+95.00	ROUTE C EAST APPROACH SPLITTER ISLAND	1	ROUTE C CONST. BL.
		<b>TOTAL</b>	<b>20</b>	





DATE PREPARED  
**11/6/2024**  
ROUTE **87** STATE **MO**  
DISTRICT **CD** SHEET NO. **4**  
COUNTY  
**MONITEAU**  
JOB NO.  
**JCD0113**  
CONTRACT ID.

DESCRIPTION

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

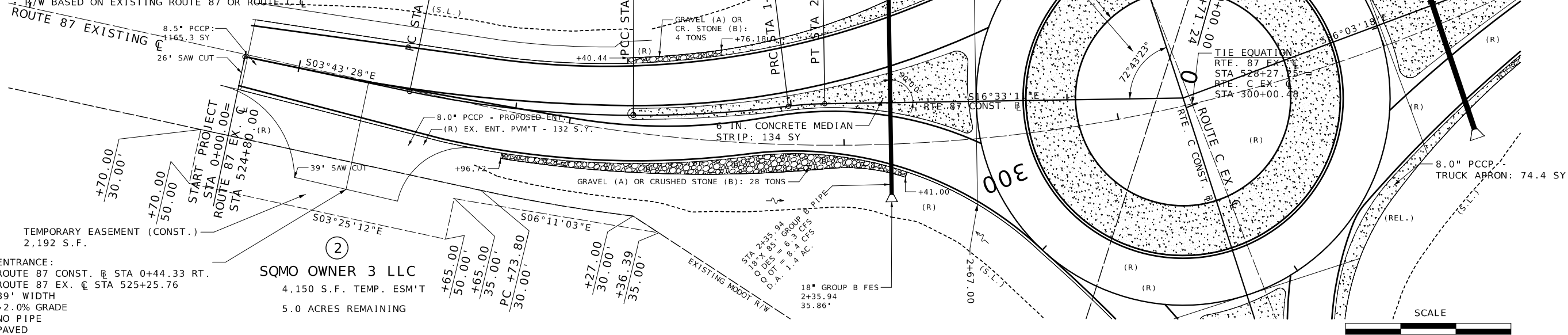
GALLIHER WILLIAM RAYMOND IV & ANGIE  
SEE SHEET 4 OF 4

T43N R15W S9  
NE 1/4 SE 1/4

- 8.0" PCCP - TRUCK APRON: 119.3 SY
- 8.0" PCCP - TRUCK APRON: 603.2 SY
- 6 IN. TYPE A INTEGRAL CURB: 245 LF
- TYPE 1 ROCK DITCH LINER: 137 CY
- AND PERMANENT EROSION CONTROL GEOTEXTILE: 531 SY
- 8.5" PCCP - ROUNDABOUT CIRCULARITY: 1093.5 SY

- ROUNDABOUT CIRCULARITY
- PI 0+00.00
- PC 0+00.00
- PT 0+00.00
- Δ 360° 0' 0" (LT)
- D 76° 23' 39.7"
- L 471.24' (ARC)
- T 0.00'
- R 75.00'

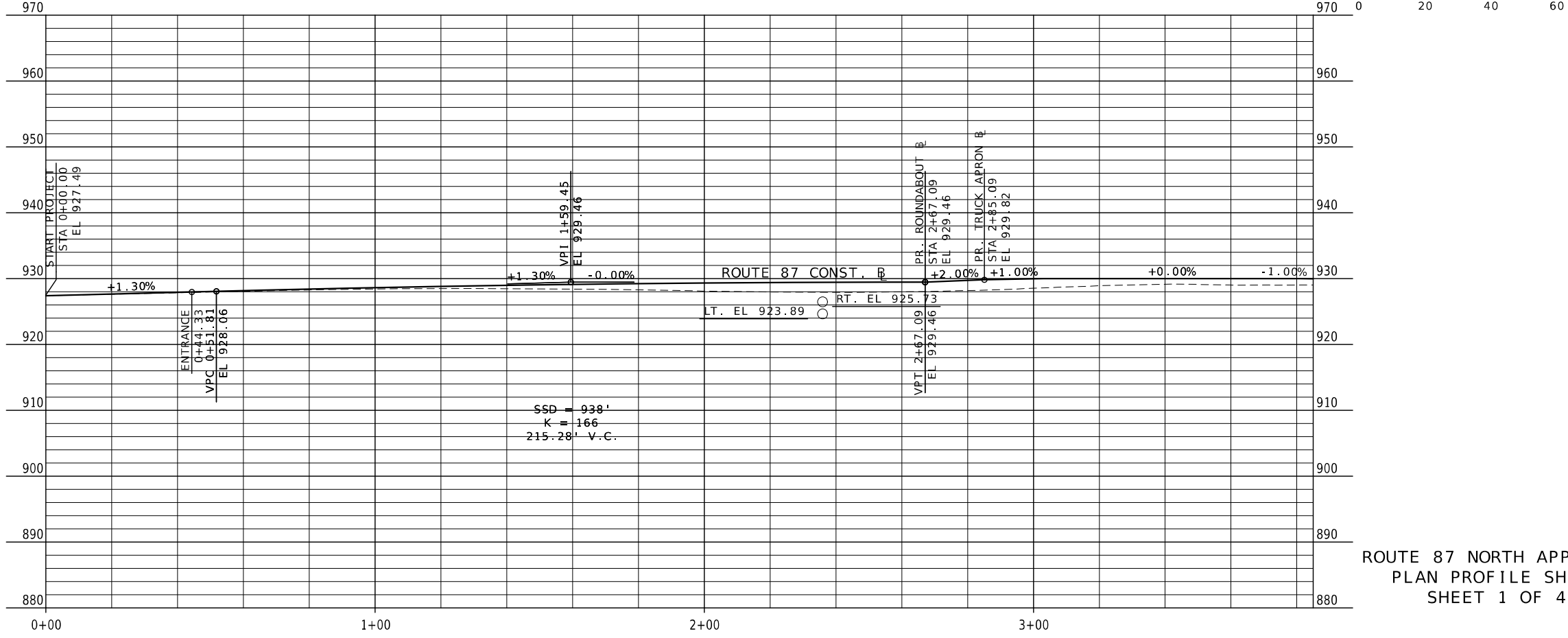
GENERAL NOTE:  
- ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT  
- ALL BEARINGS BASED ON STATE PLANE BEARINGS CENTRAL ZONE  
- RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 524+70.00 TO STATION 532+10.00 A DISTANCE OF 0.142 MILES  
- ENTRANCES CONSTRUCTED THROUGH NEW RIGHT OF WAY BETWEEN STATION 524+70.00 TO STATION 532+10.00 MAY BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. [18 M] UNLESS OTHERWISE NOTED  
R/W BASED ON EXISTING ROUTE 87 OR ROUTE C



TEMPORARY EASEMENT (CONST.)  
2,192 S.F.

ENTRANCE:  
ROUTE 87 CONST. @ STA 0+44.33 RT.  
ROUTE 87 EX. @ STA 525+25.76  
39' WIDTH  
-2.0% GRADE  
NO PIPE  
PAVED

SQMO OWNER 3 LLC  
4,150 S.F. TEMP. ESM'T  
5.0 ACRES REMAINING



ROUTE 87 NORTH APPROACH  
PLAN PROFILE SHEET  
SHEET 1 OF 4











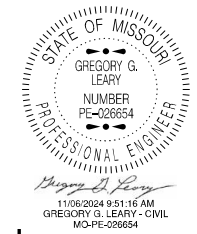
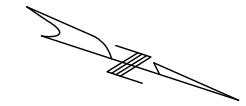












DATE PREPARED  
11/5/2024

ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	13

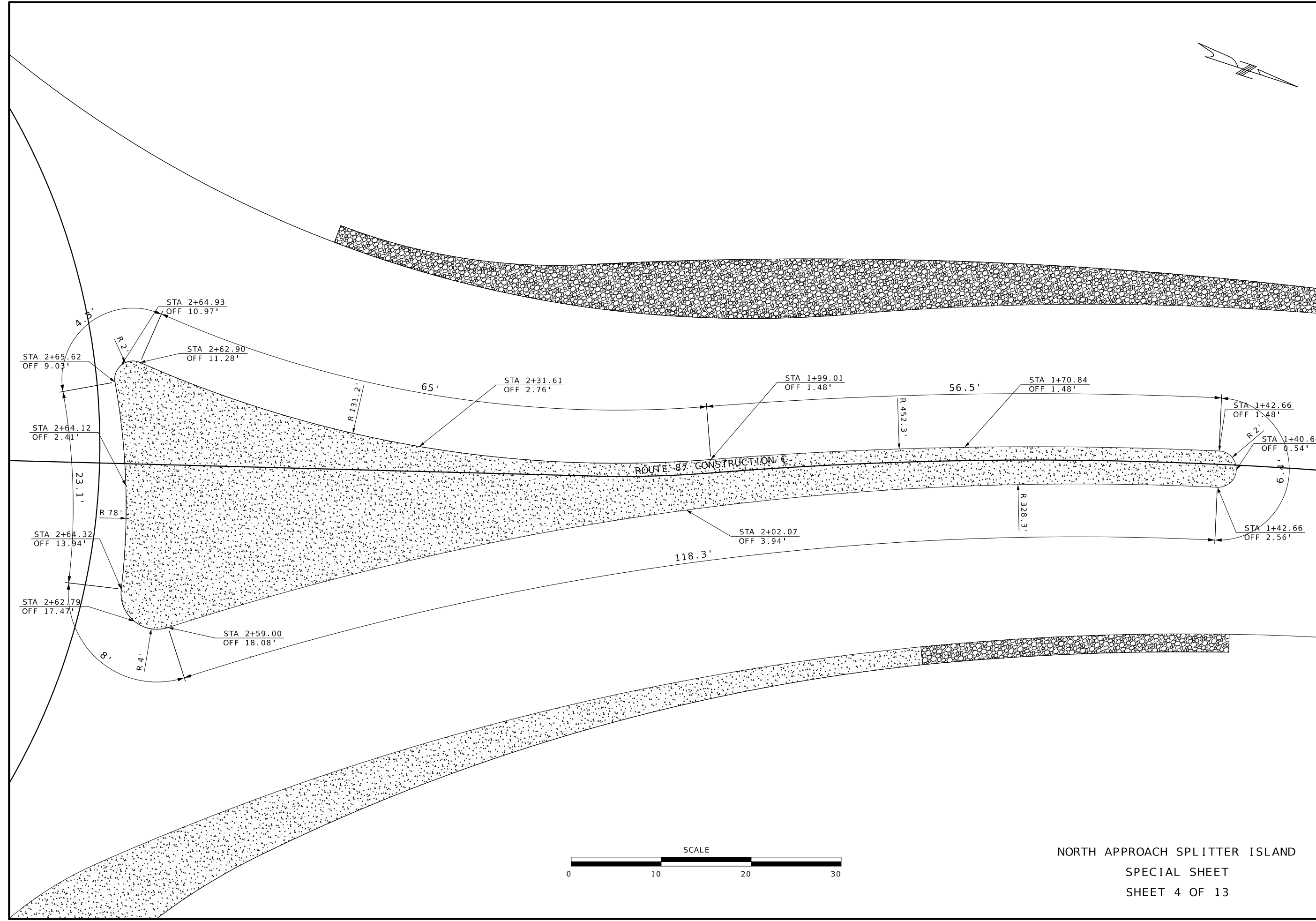
COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



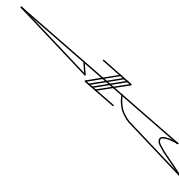
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**MoDOT**

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

NORTH APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 4 OF 13



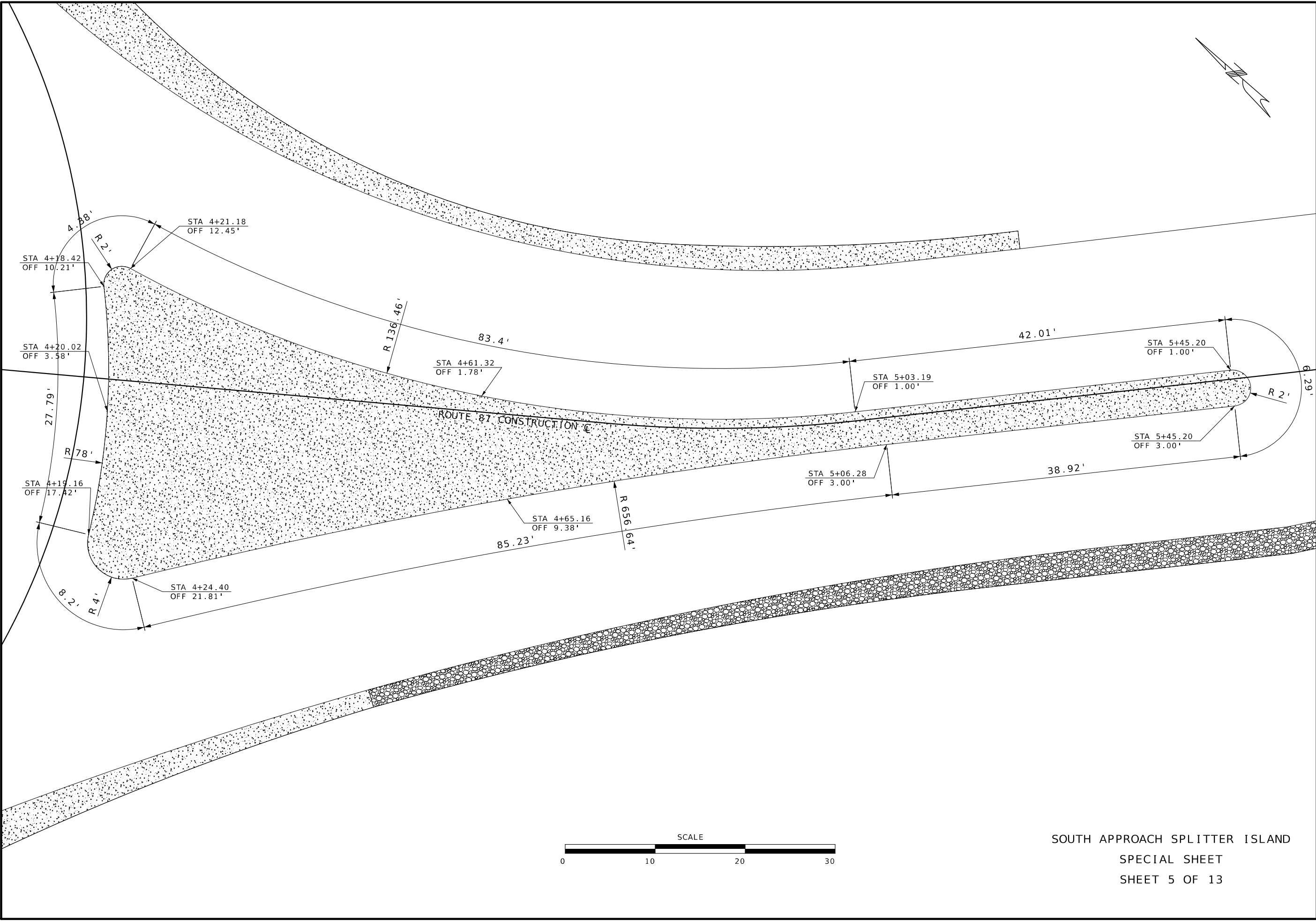
DATE PREPARED  
11/06/2024 9:51:02 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

DATE PREPARED  
11/5/2024  
ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 14  
COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.

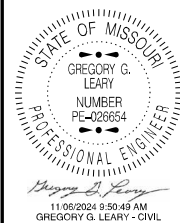
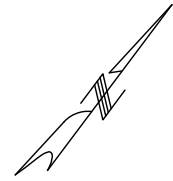
PROJECT NO.  
BRIDGE NO.

DESCRIPTION	DATE

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



SOUTH APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 5 OF 13



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 15

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

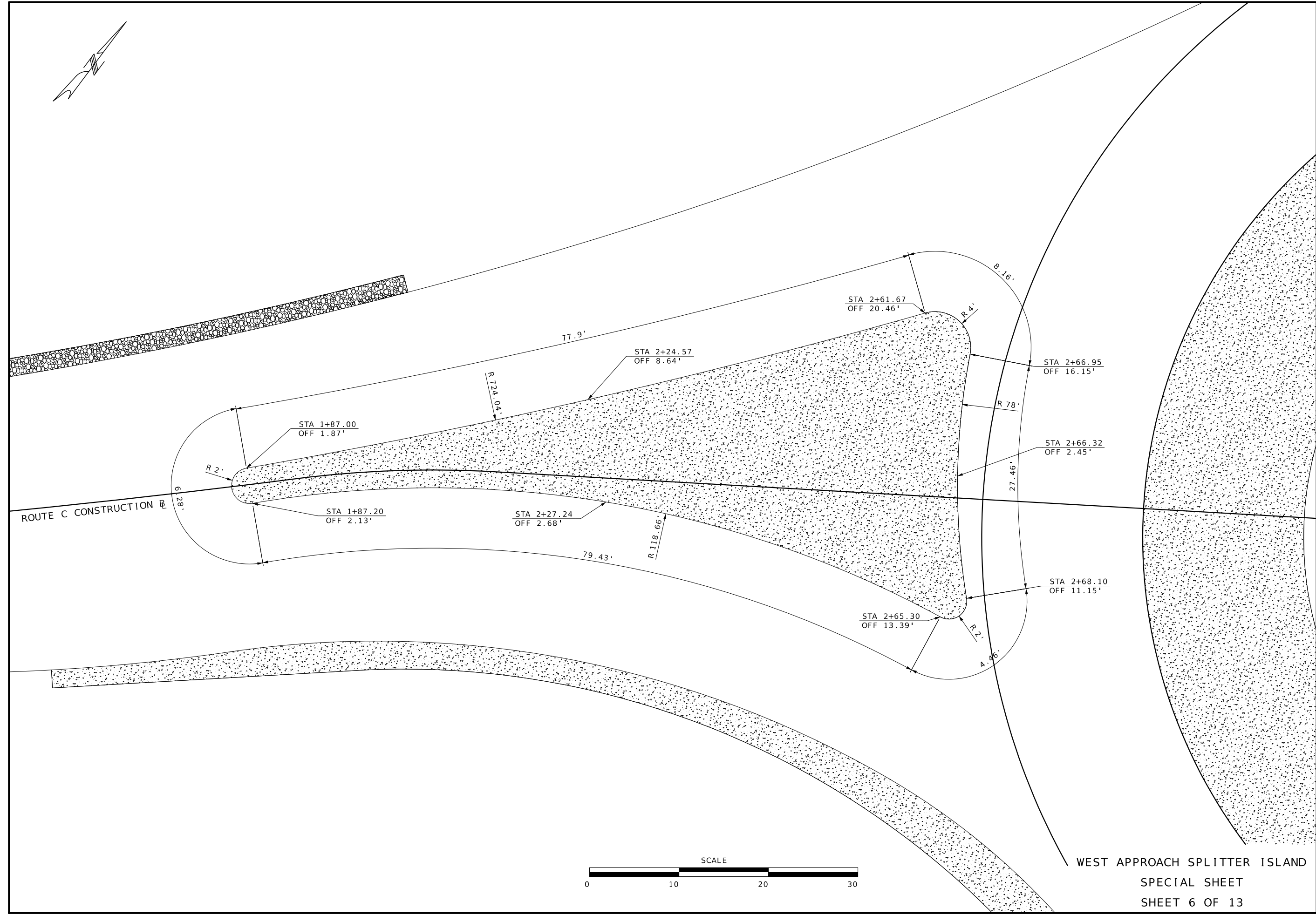
BRIDGE NO.

DESCRIPTION	DATE

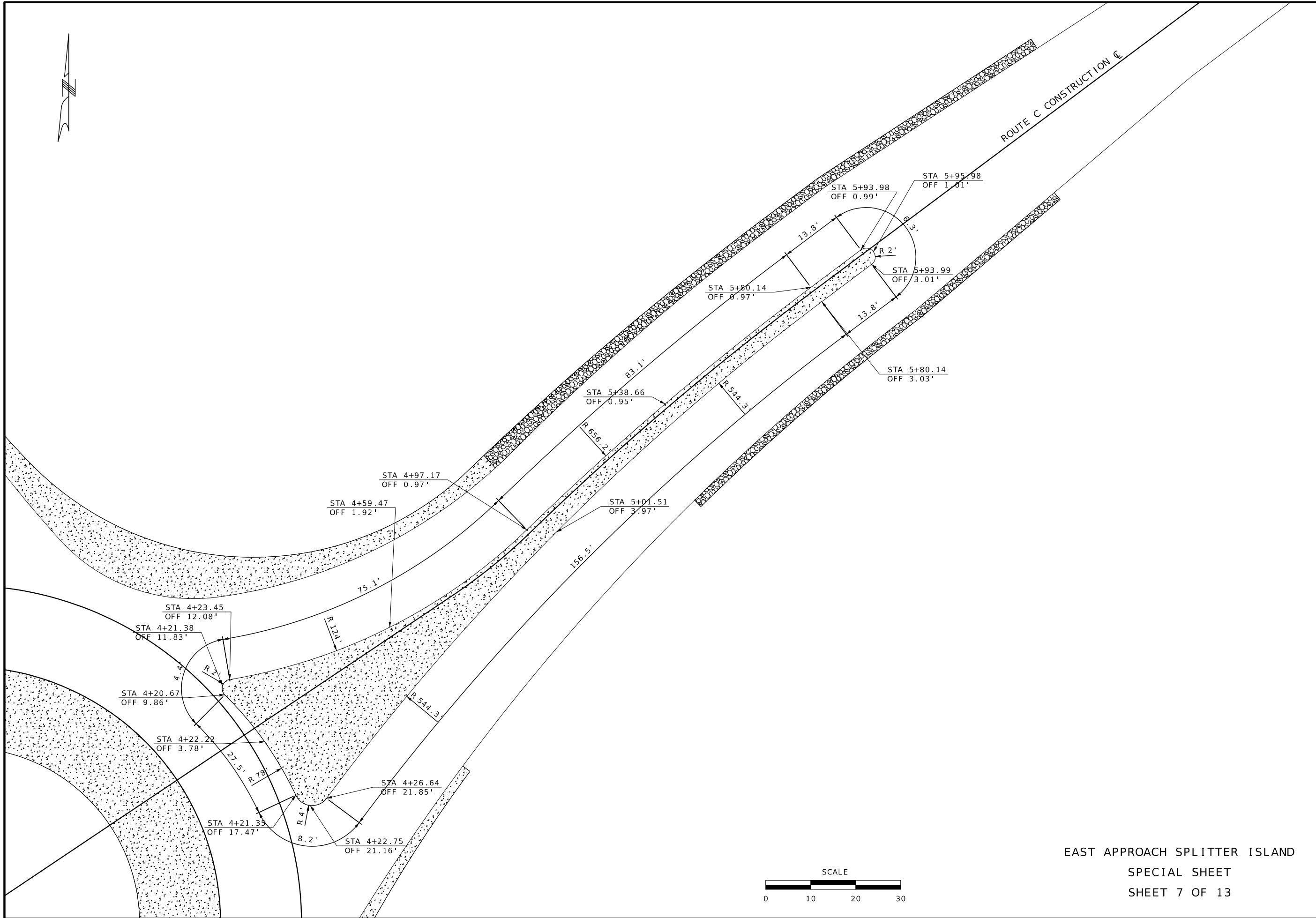
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



WEST APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 6 OF 13



EAST APPROACH SPLITTER ISLAND  
SPECIAL SHEET  
SHEET 7 OF 13



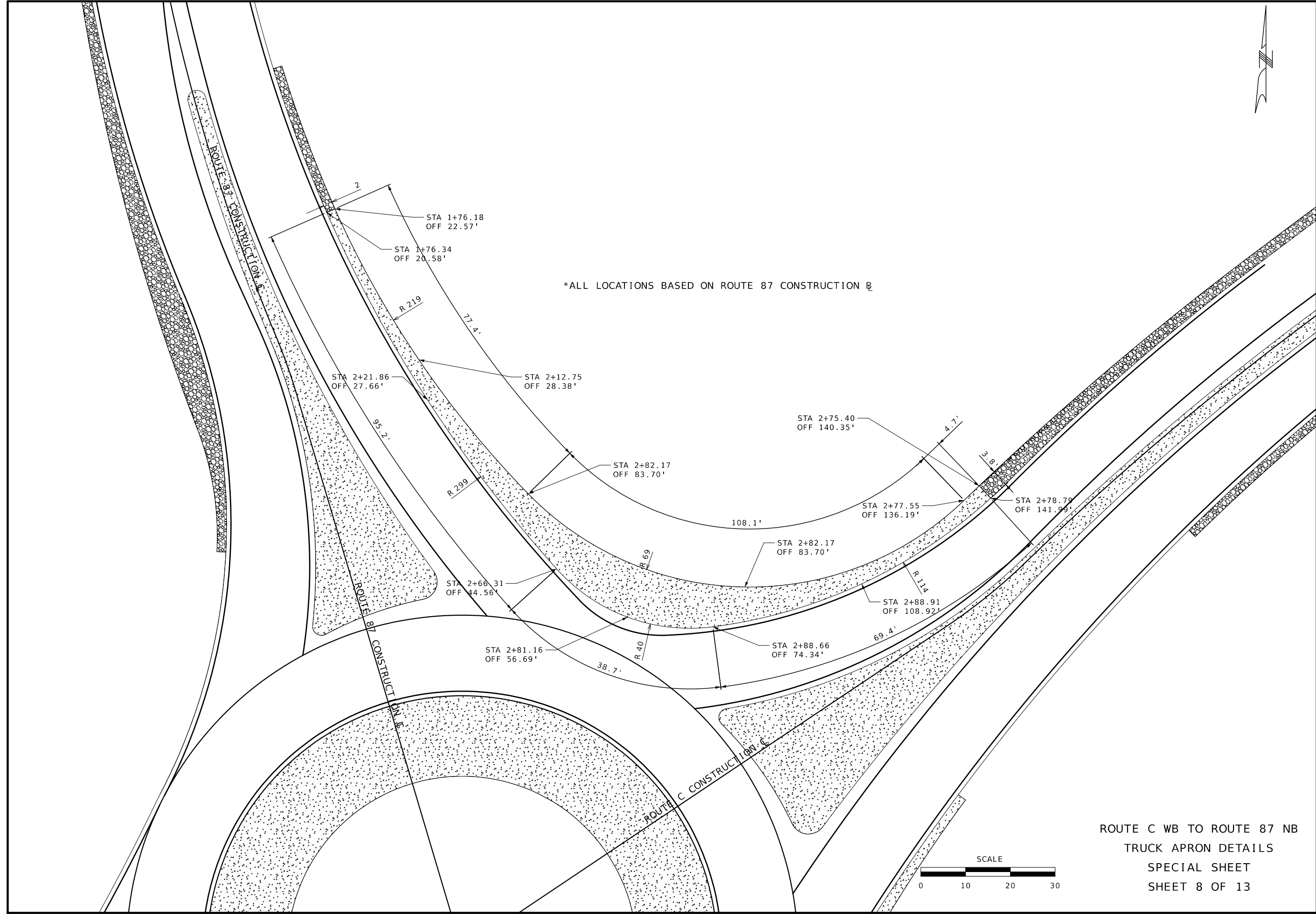
11/06/2024 9:50:35 AM  
GREGORY G. LEARY - CIVIL  
DATE PREPARED

11/5/2024	
ROUTE <b>87</b>	STATE <b>MO</b>
DISTRICT <b>CD</b>	SHEET NO. <b>16</b>
COUNTY <b>MONITEAU</b>	
JOB NO. <b>JCD0113</b>	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



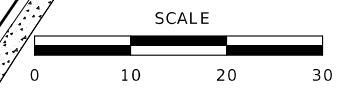
\*ALL LOCATIONS BASED ON ROUTE 87 CONSTRUCTION  $\mathbb{R}$

STATE OF MISSOURI  
 GREGORY G. LEARY  
 NUMBER PE-026654  
 PROFESSIONAL ENGINEER  
 11/08/2024 9:50:16 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED

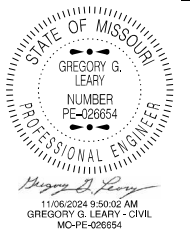
11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 17  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DESCRIPTION	DATE

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

ROUTE C WB TO ROUTE 87 NB  
 TRUCK APRON DETAILS  
 SPECIAL SHEET  
 SHEET 8 OF 13



11/06/2024 9:50:02 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

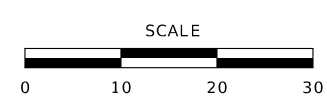
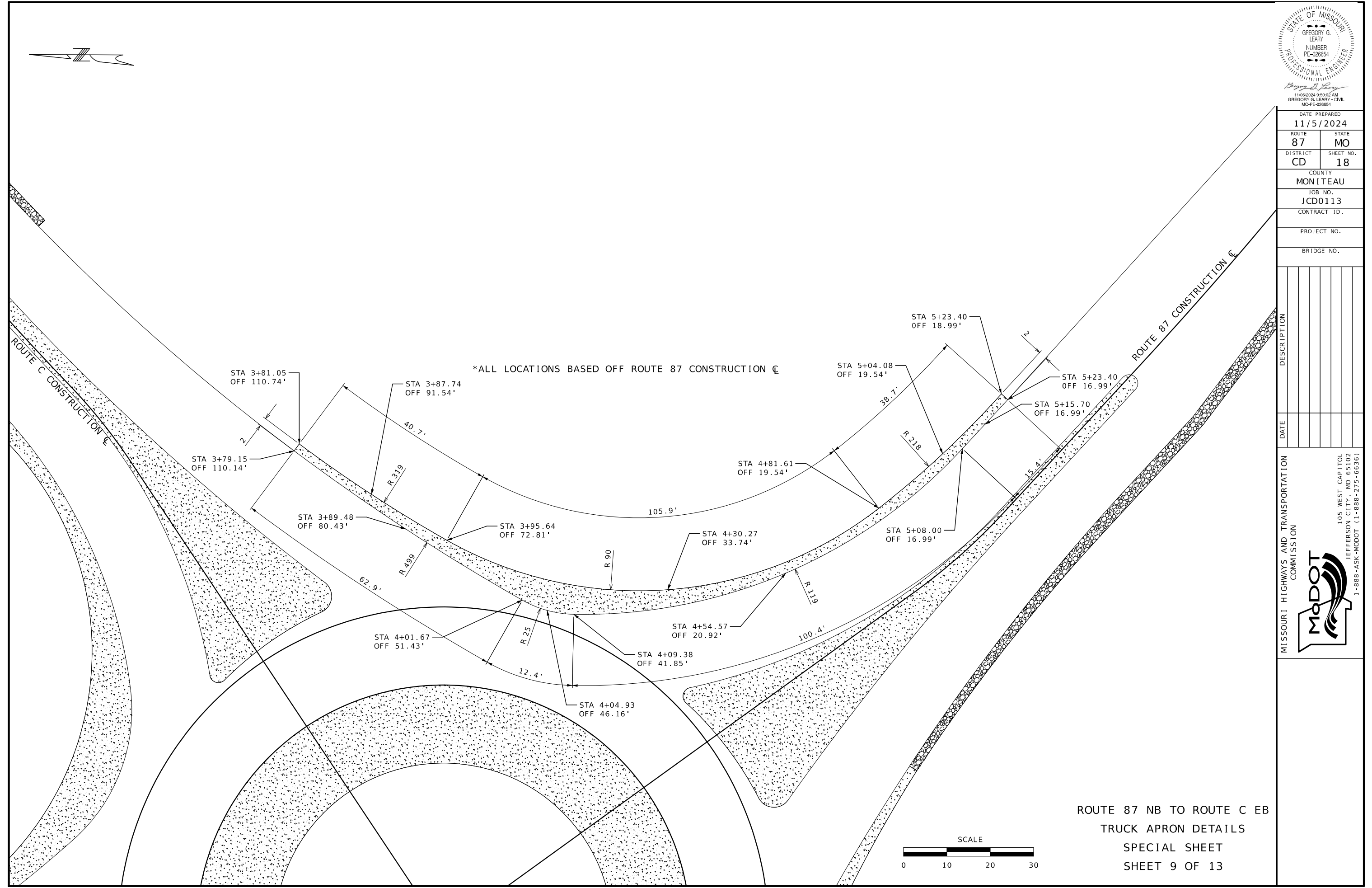
DATE PREPARED		11/5/2024	
ROUTE	STATE	87	MO
DISTRICT	SHEET NO.	CD	18
COUNTY			
MONITEAU			
JOB NO.			
JCD0113			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DESCRIPTION	DATE

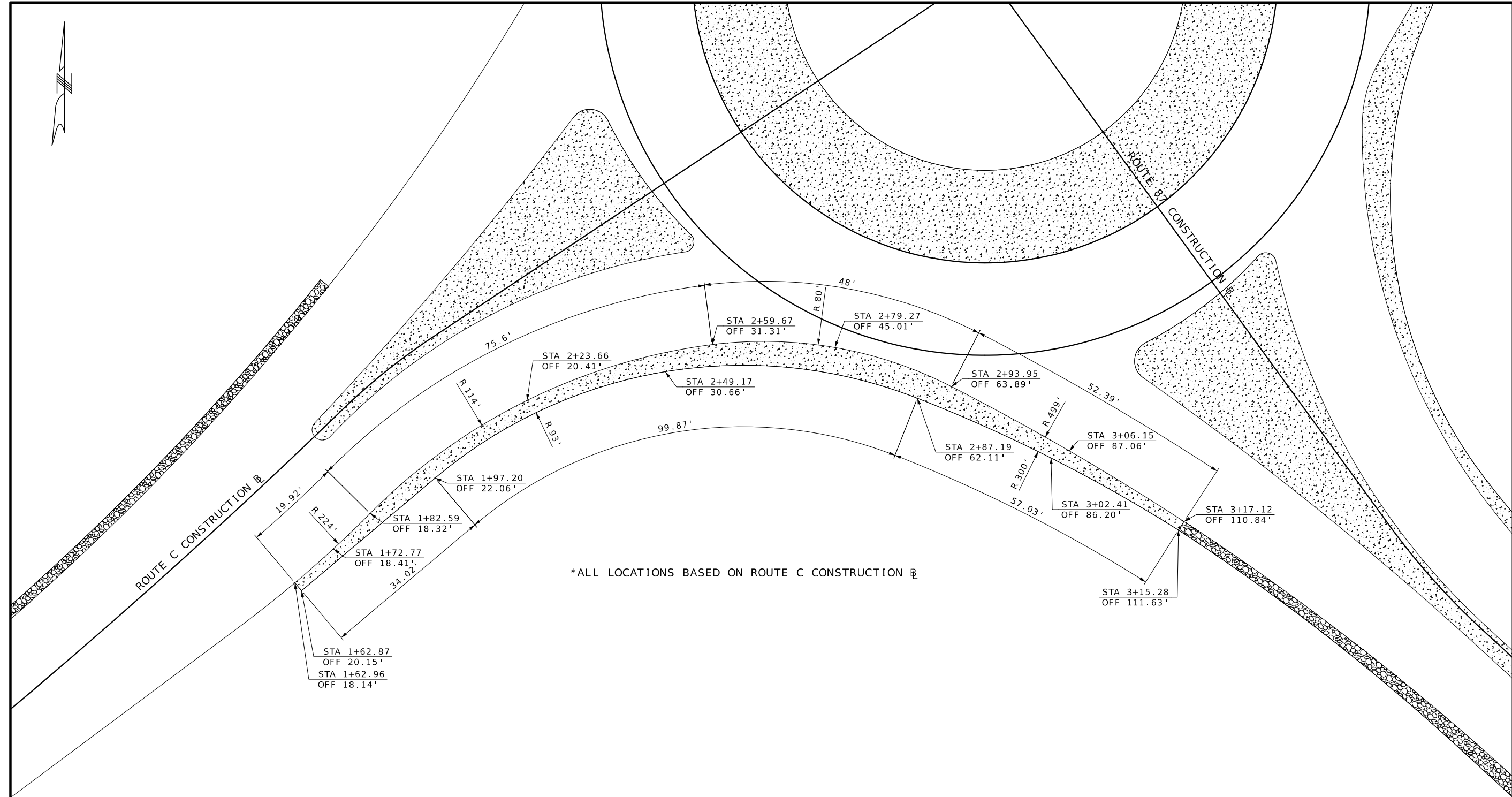
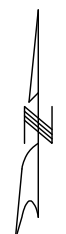
DATE	


MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

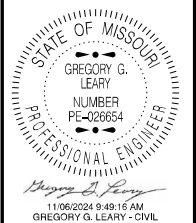
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



ROUTE 87 NB TO ROUTE C EB  
TRUCK APRON DETAILS  
SPECIAL SHEET  
SHEET 9 OF 13



\*ALL LOCATIONS BASED ON ROUTE C CONSTRUCTION EB

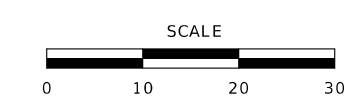


DATE PREPARED  
11/5/2024  
ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 19  
COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

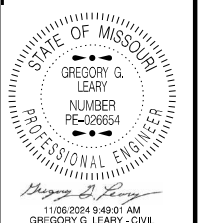
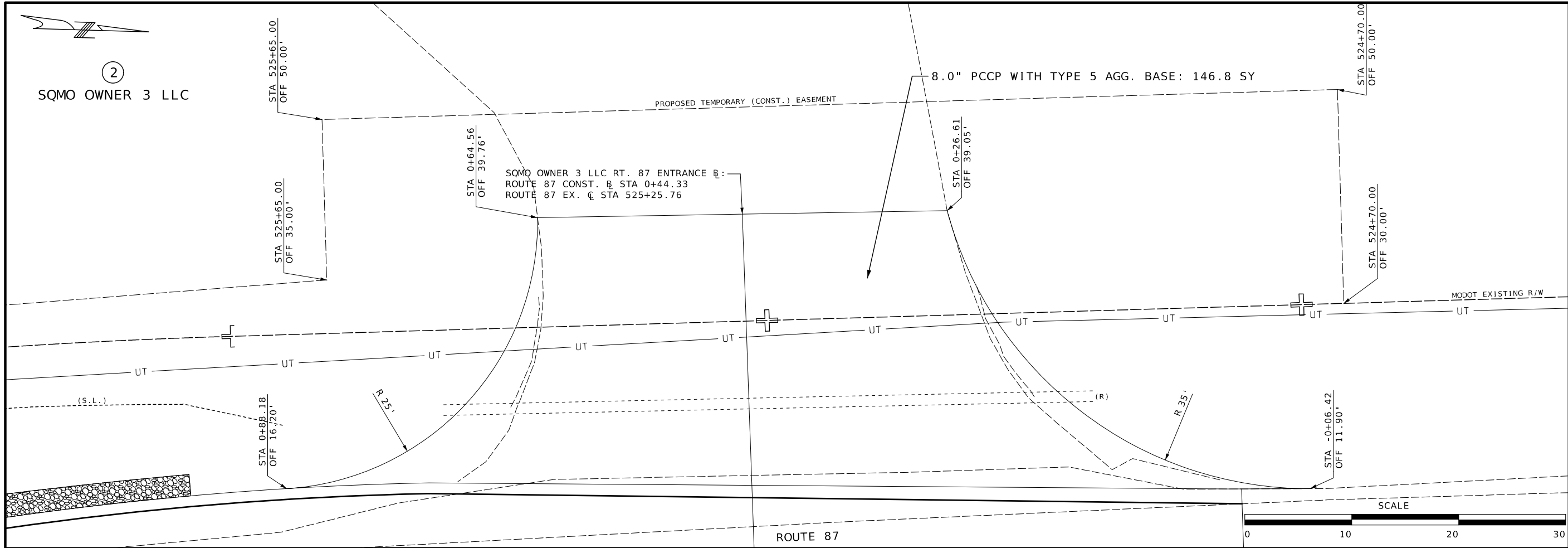
DATE	DESCRIPTION

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

ROUTE C EB TO ROUTE 87 SB  
 TRUCK APRON DETAILS  
 SPECIAL SHEET  
 SHEET 10 OF 13



②  
SQMO OWNER 3 LLC



DATE PREPARED  
11/5/2024

ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	20

COUNTY  
MONITEAU

JOB NO.  
JCD0113

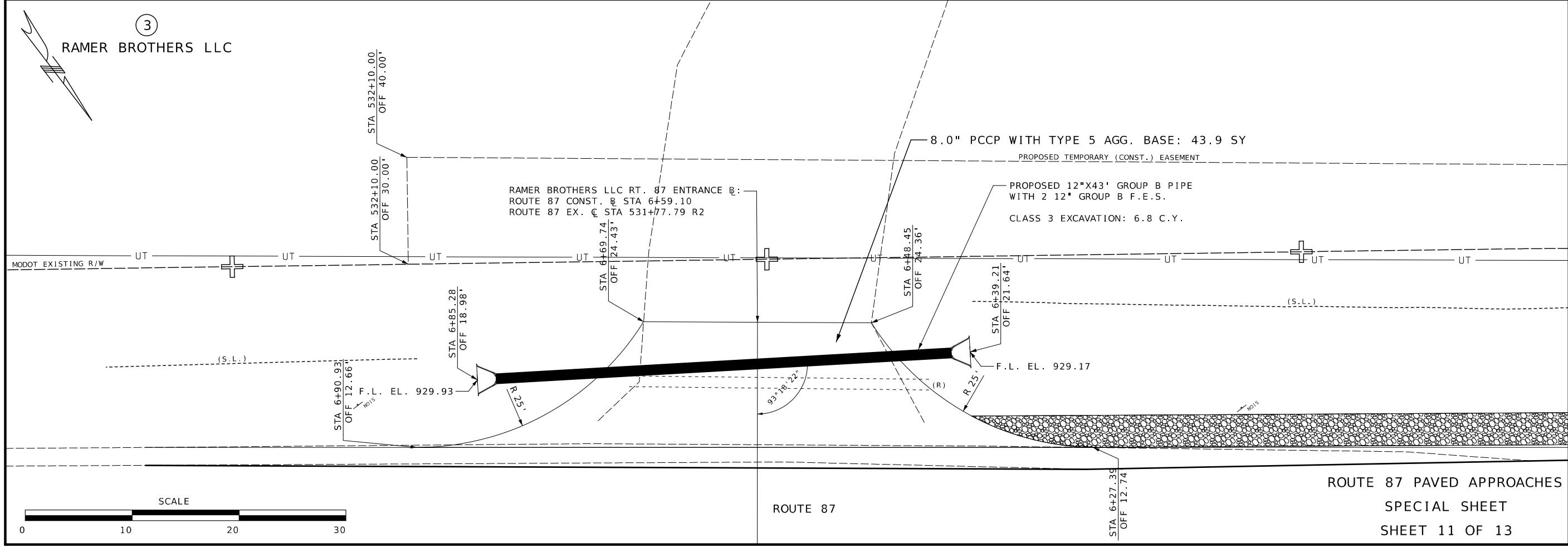
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

③  
RAMER BROTHERS LLC



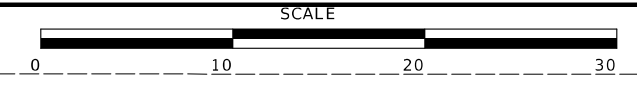
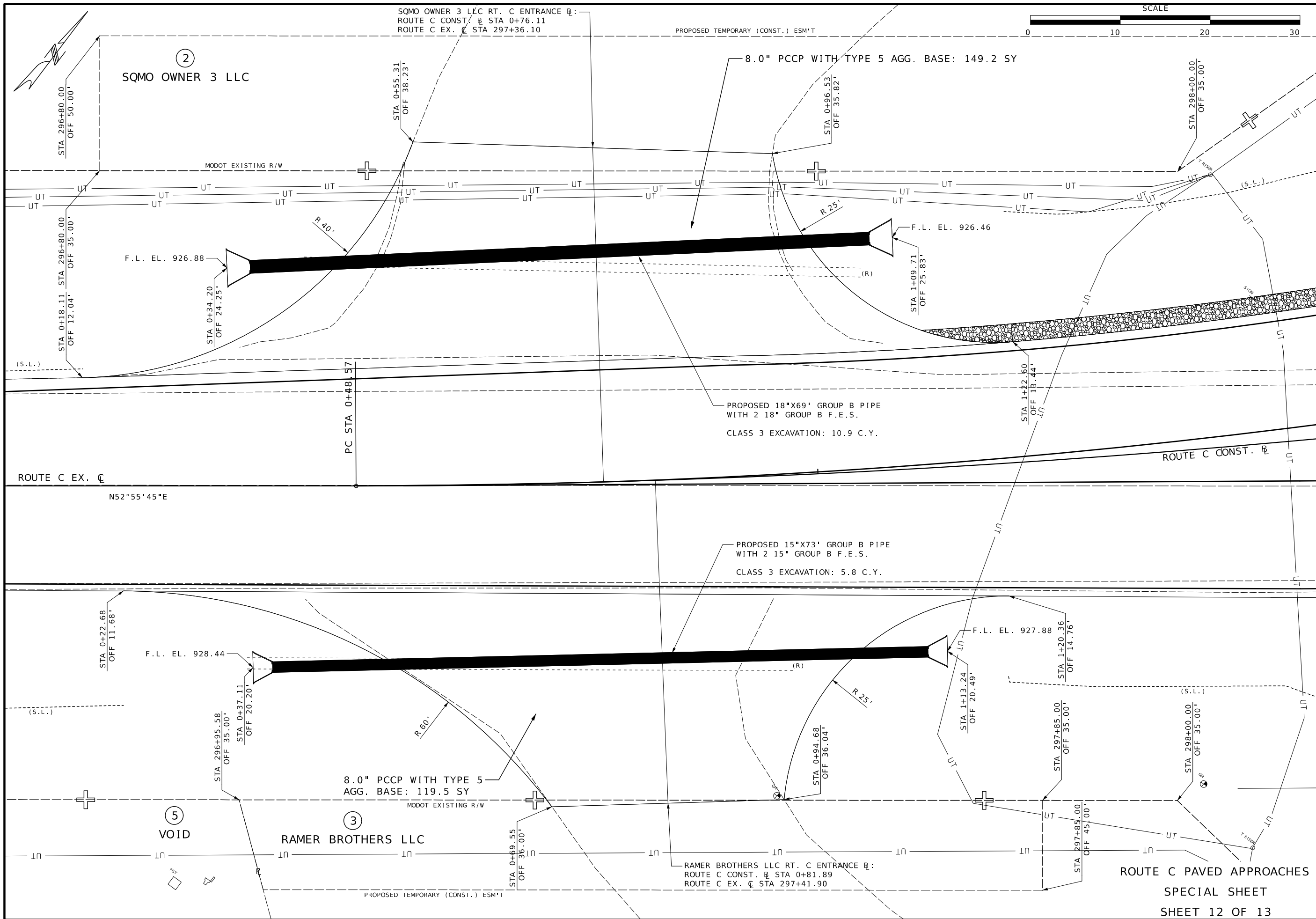
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)

ROUTE 87 PAVED APPROACHES  
SPECIAL SHEET  
SHEET 11 OF 13





11/05/2024 9:48:44 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-029564  
 DATE PREPARED  
 11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 21  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

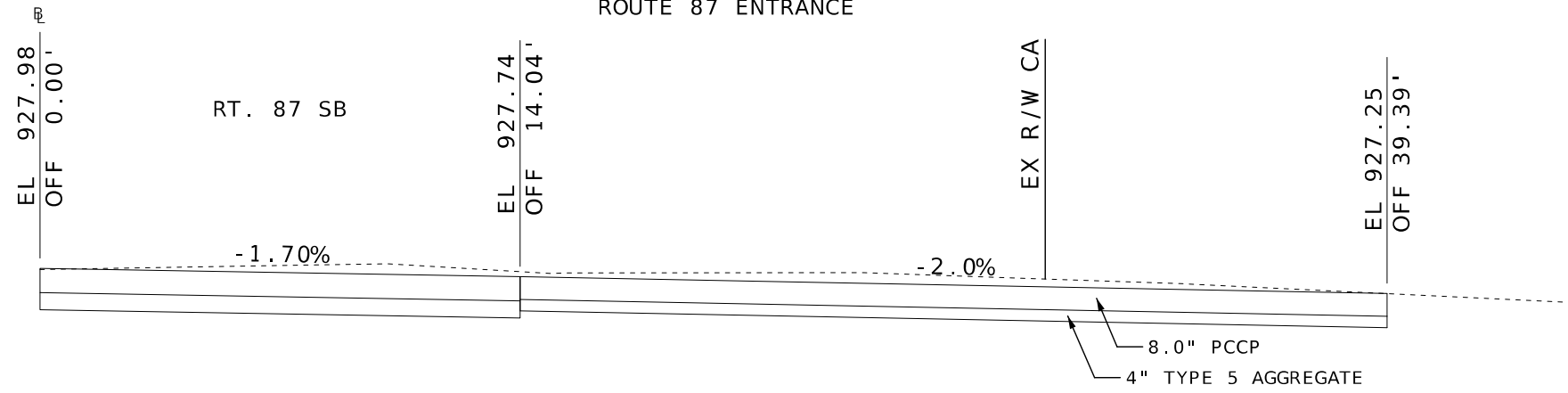
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-273-6636)

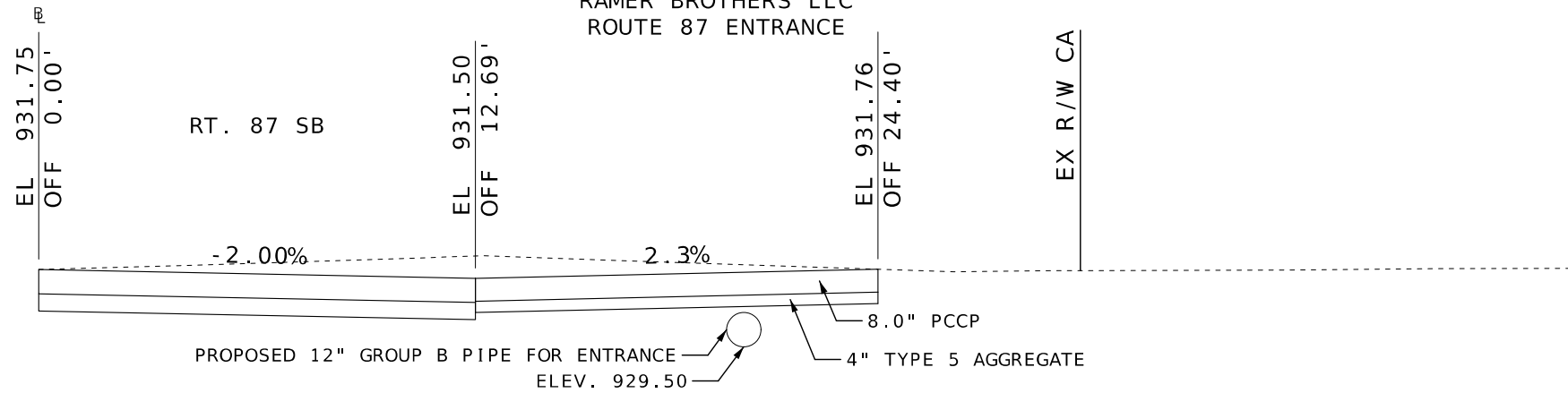
ROUTE C PAVED APPROACHES  
 SPECIAL SHEET  
 SHEET 12 OF 13

SQMO OWNER 3 LLC  
ROUTE 87 ENTRANCE



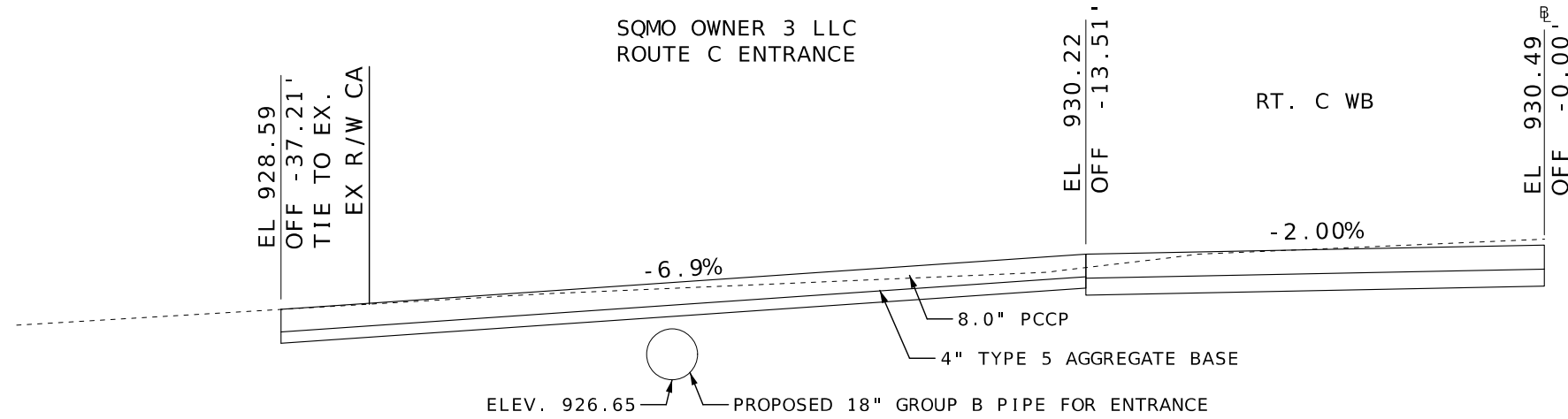
RT. 87 CONST. @ STA 0+44.33  
RT. 87 EX. @ STA 525+25.76

RAMER BROTHERS LLC  
ROUTE 87 ENTRANCE



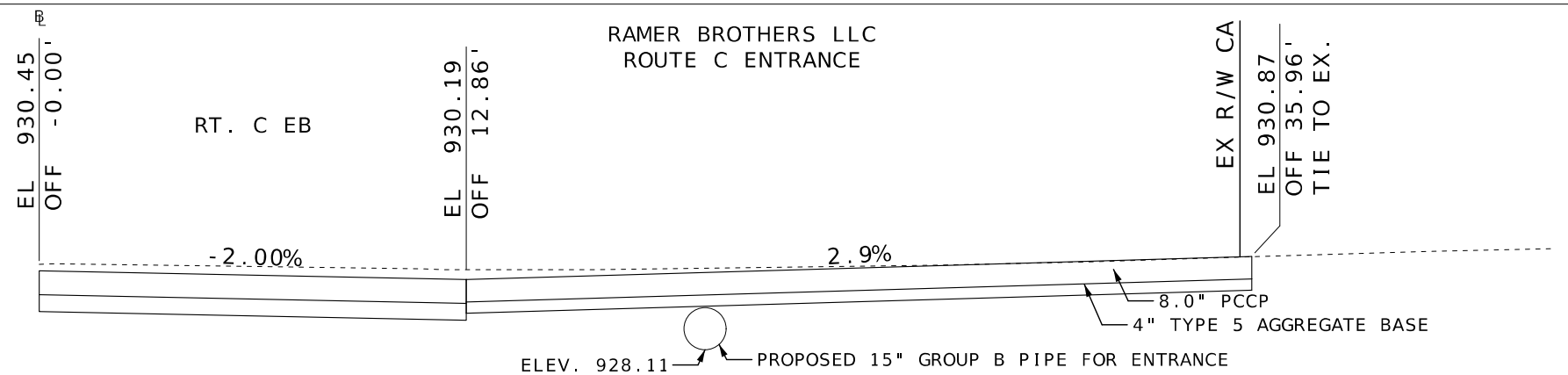
RT. 87 CONST. @ STA 6+59.10  
RT. 87 EX. @ STA 531+77.79 R2

SQMO OWNER 3 LLC  
ROUTE C ENTRANCE



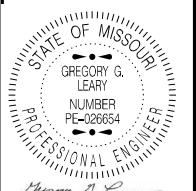
RT. C CONST. @ STA 0+76.11  
RT. C EX. @ STA 297+36.10

RAMER BROTHERS LLC  
ROUTE C ENTRANCE



RT. C CONST. @ STA 0+81.89  
RT. C EX. @ STA 297+41.90

PAVED APPROACH DETAILS  
SPECIAL SHEET  
SHEET 13 OF 13



11/06/2024 11:12:47 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 22
COUNTY MONITEAU	
JOB NO. JCD0113	
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)

**SPACING AND TAPER NOTES:**

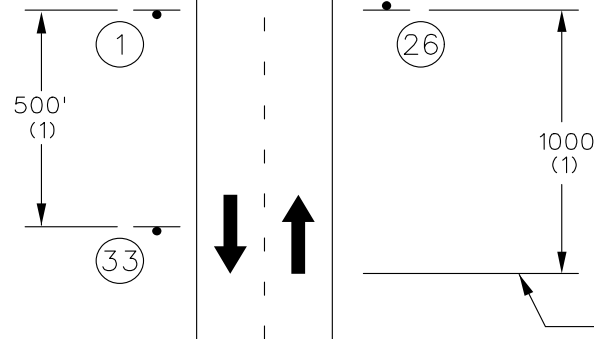
- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.

PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (T2)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER (T1)	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	400'	35'*	40'*
40-45	450'	495'	540'	150'	400'	40'*	80'*
50-55	550'	605'	660'	185'	560'	50'**	80'**
60-70	700'	770'	840'	235'	840'	60'**	120'**

\* SPACING REDUCED TO 1/2 AT INTERSECTIONS.  
 \*\* SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

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

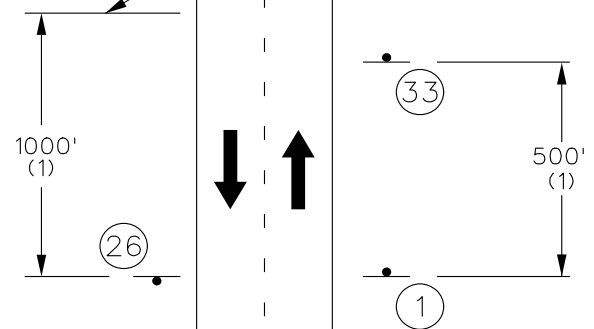
SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA - 1000' SB - 1500' SC - 2640'



END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA, IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS

**Intersection Improvements**  
 Fall 2025

BEGINNING OF PROJECT LIMITS; OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.



**WORK ZONE NO PHONE ZONE**

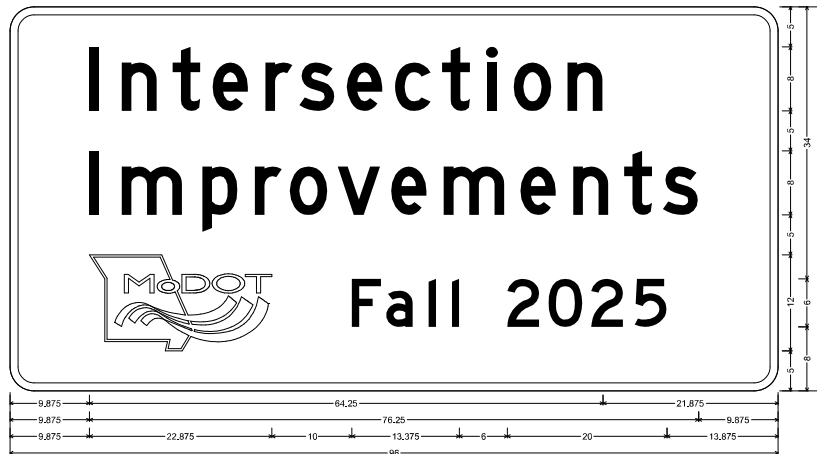
**ROAD WORK NEXT 1 MILES**

**END ROAD WORK**

**Completed as Promised**

CONST-4P-60 SH-FLAT SHEET FLUORESCENT; 1,500" Radius, No border, Yellow; \*Completed as Promised\* Black, D 65% spacing; Table of letter and object letter

C	F	M	P	R	S	T	V	W	X	Y	Z
1,500	4,875	7,875	12,375	15,375	18,375	21,500	24,250	29,000	31,875		
38,625	59,875	41,875	44,875	48,500	50,750	53,500	58,250				



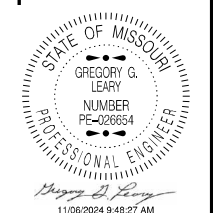
CONST-6-96 SH-FLAT SHEET; 3,000" Radius, 1,000" Border, White on Black; \*Intersection\*, D: \*Improvements\*, D: \*Fall 2025\*, D: Table of letter and object letter

C	F	M	P	R	S	T	V	W	X	Y	Z
9,875	14,000	20,250	25,250	31,875	38,125	42,125	48,125	54,000	59,625	63,000	69,625
9,875	14,000	24,000	30,625	35,000	41,000	47,625	54,250	63,750	70,375	76,750	81,625
9,875	42,750	47,000	52,375	55,250	62,125	67,375	72,625	76,125			

- GENERAL NOTES:**
- TRAFFIC CONTROL DEVICE LOCATIONS MAY BE ADJUSTED AS APPROVED BY THE ENGINEER.
  - SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.
  - OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.
  - ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
  - ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.
  - CMS TO BE LOCATED AS APPROVED BY THE ENGINEER.
  - (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
  - (2) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.
  - (3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITION. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
  - (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

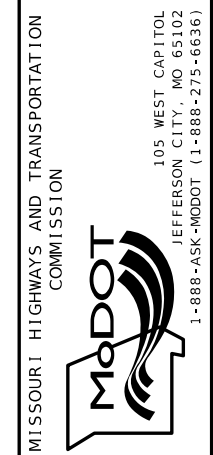
TWO-LANE UNDIVIDED  
 BEGIN/END OF PROJECT SIGNING  
 (FOR USE ON ALL PROJECTS)

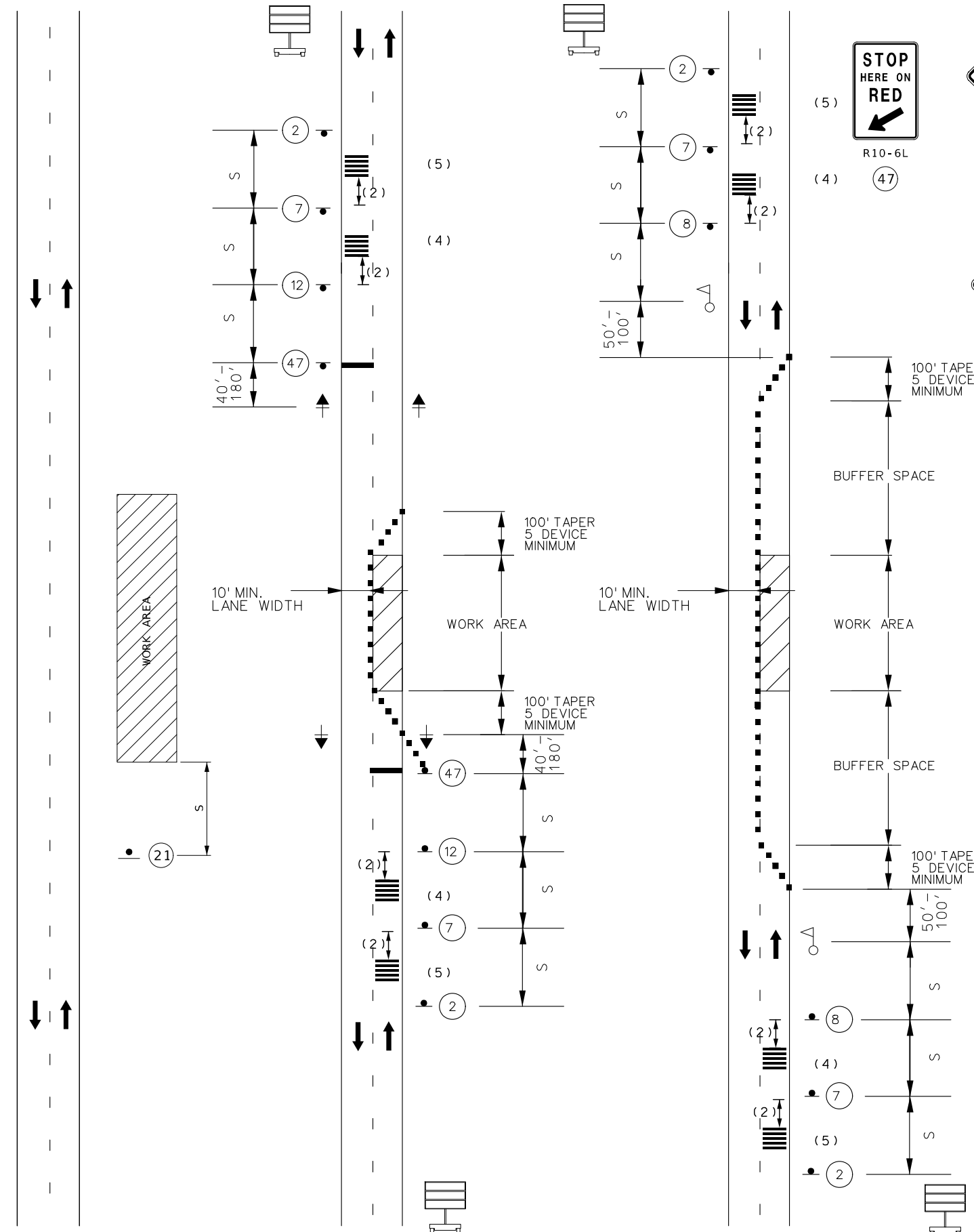
BEGIN/END PROJECT SIGNING  
 TRAFFIC CONTROL SHEET  
 SHEET 1 OF 20





DATE PREPARED: 11/5/2024  
 ROUTE: 87 STATE: MO  
 DISTRICT: CD SHEET NO.: 23  
 COUNTY: MONITEAU  
 JOB NO.: JCD0113  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.:


DESCRIPTION	DATE








(5)   
R10-6L


(4) 


  
W020-1

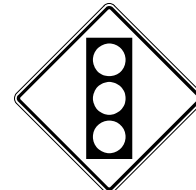
  
W020-1


  
W020-4


  
W021-5b

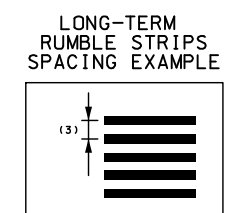
  
W020-7a

  
W05-5

  
W03-3

  
R6-1R

  
R6-1L



LONG-TERM RUMBLE STRIPS		
SPEED	DISTANCE (2)	SPACING (3)
0-45 MPH	120 FT	10 FT
50-55 MPH	160 FT	15 FT
60-70 MPH	200 FT	20 FT

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

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

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

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

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

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

LONG-TERM RUMBLE STRIPS SHALL BE ORANGE IN COLOR AND CONSIST OF 5 STRIPS.

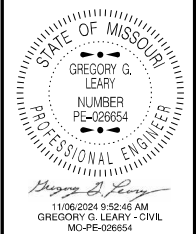
TWO SETS OF RUMBLE STRIPS (4) & (5) MAY BE USED SIMULTANEOUSLY OR ONE SET OF RUMBLE STRIPS MAY BE USED. IF ONE SET OF RUMBLE STRIPS ARE USED, THE PREFERRED PLACEMENT IS AT LOCATION (4)

LANE CLOSURE ONE LANE TWO WAY OPERATION  
WITH FLAGGERS,  
LANE CLOSURE ONE LANE OPERATION USING SIGNALS,  
AND WORK BEYOND THE SHOULDER  
TRAFFIC CONTROL SHEET  
SHEET 2 OF 20

WORK BEYOND THE SHOULDER  
(UNDIVIDED OR DIVIDED  
HIGHWAY)

LANE CLOSURE ONE LANE  
OPERATION USING TRAFFIC  
SIGNALS (PHASE 2 - PHASE 7)

LANE CLOSURE ONE LANE  
TWO WAY OPERATION USING  
FLAGGERS (PHASE 1)



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 24

COUNTY  
MONITEAU

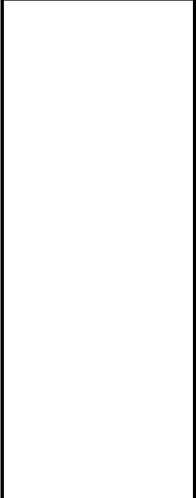
JOB NO.  
JCD0113

CONTRACT ID.

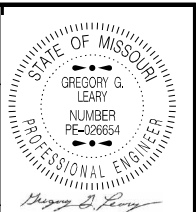
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

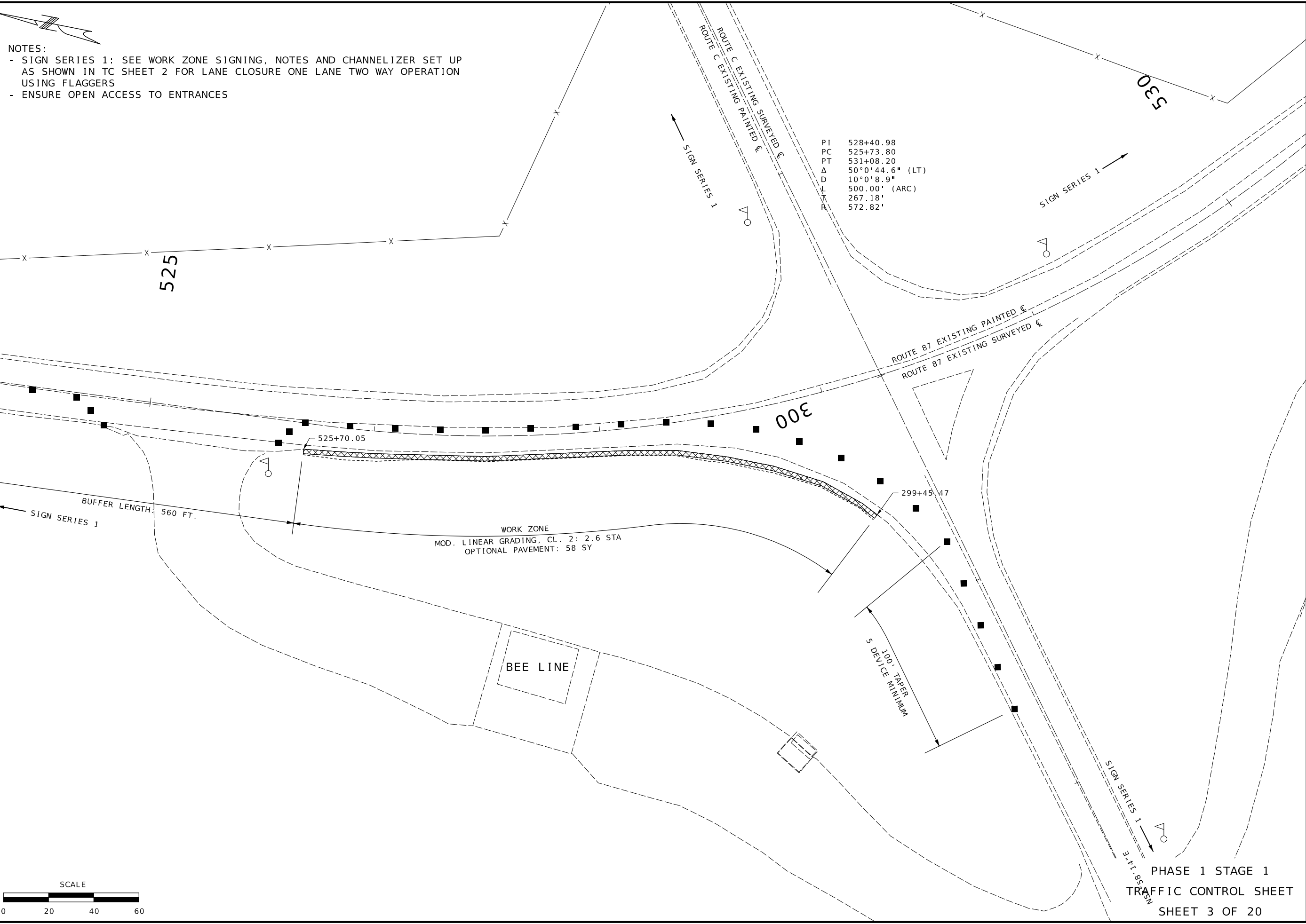


NOTES:  
 - SIGN SERIES 1: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS  
 - ENSURE OPEN ACCESS TO ENTRANCES



DATE PREPARED  
 11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 25  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

PI 528+40.98  
 PC 525+73.80  
 PT 531+08.20  
 Δ 50°0'44.6" (LT)  
 D 10°0'8.9"  
 L 500.00' (ARC)  
 T 267.18'  
 R 572.82'



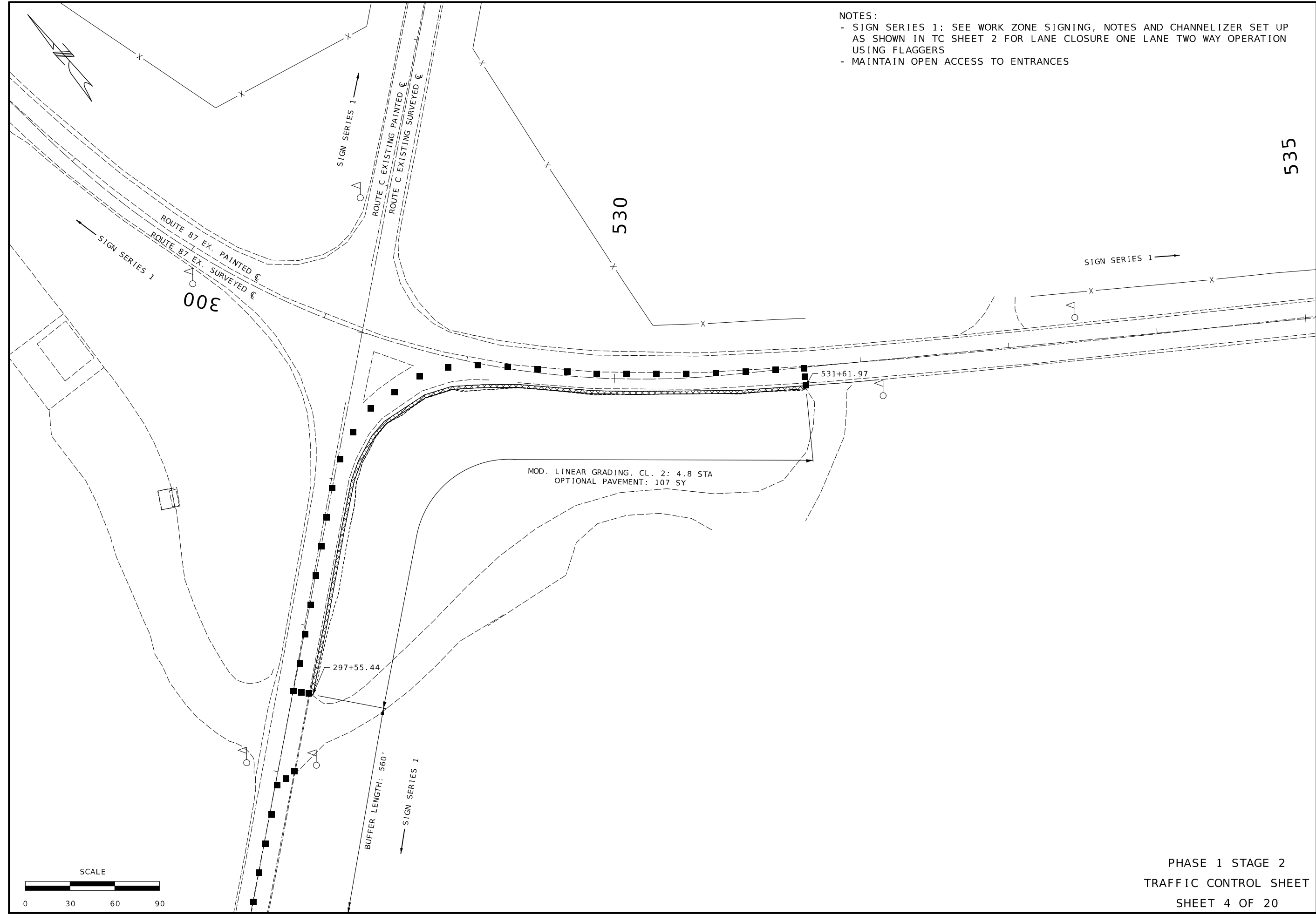
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PHASE 1 STAGE 1  
 TRAFFIC CONTROL SHEET  
 SHEET 3 OF 20

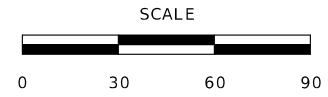
NOTES:  
 - SIGN SERIES 1: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS  
 - MAINTAIN OPEN ACCESS TO ENTRANCES



535

530

300




*Gregory G. Leary*  
 11/06/2024 9:57:54 AM  
 GREGORY G. LEARY - CIVIL  
 MOPE-026654

DATE PREPARED	
11/5/2024	
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	26
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

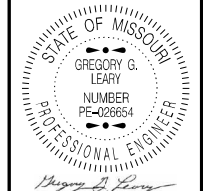
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

- NOTES:
- SIGN SERIES 1: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS
  - MAINTAIN OPEN ACCESS TO ENTRANCES



11/05/2024 9:57:43 AM  
 GREGORY G. LEARY - CIVIL  
 MOPE026654  
 DATE PREPARED

11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 27

COUNTY  
MONITEAU

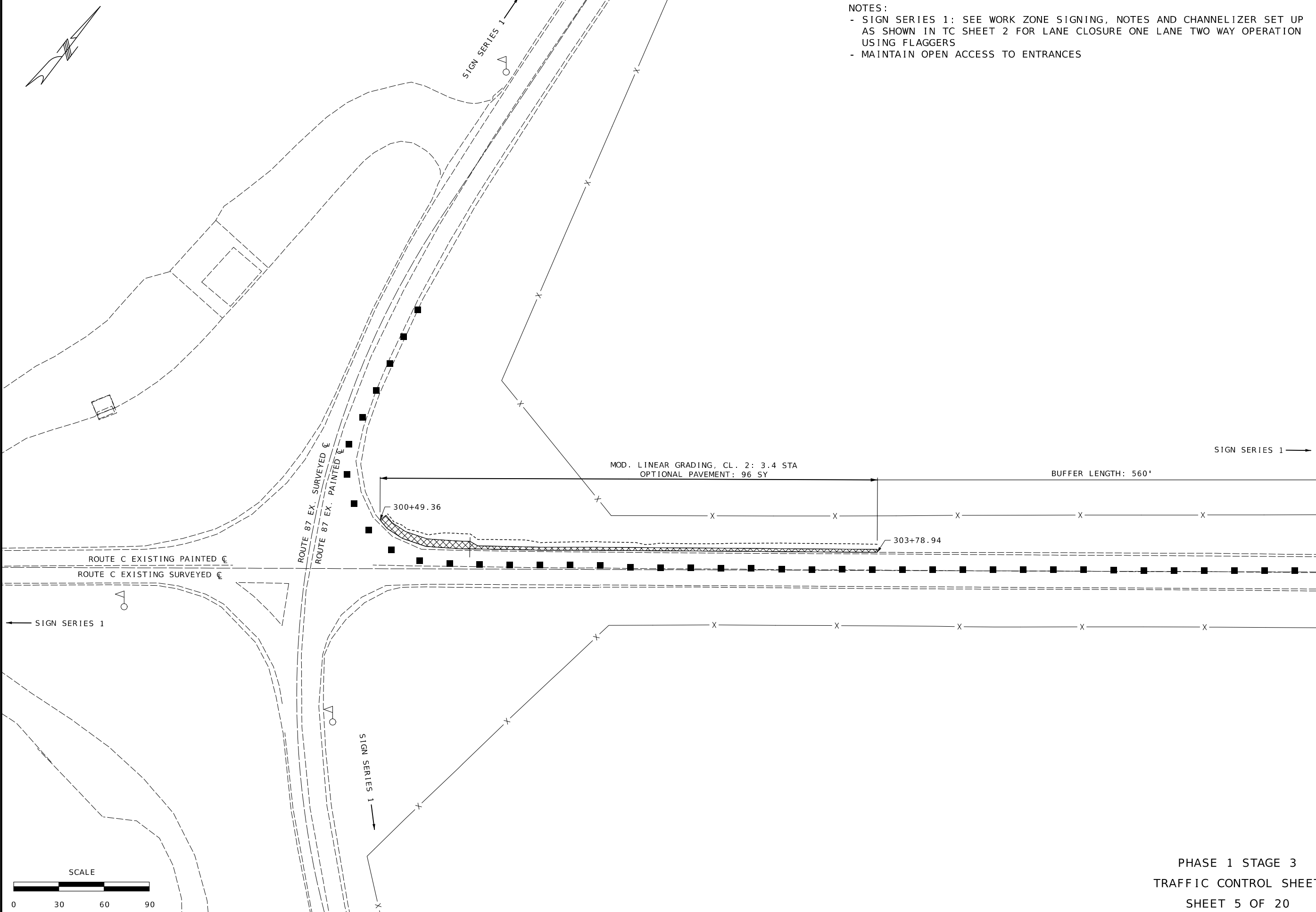
JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-273-6636)

TEMPORARY SIGNAL CONTROLLER, NORTH APPROACH AND WEST APPROACH SIGNAL



11/06/2024 9:57:16 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-029654

DATE PREPARED  
11/5/2024

ROUTE STATE  
87 MO

DISTRICT SHEET NO.  
CD 28

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

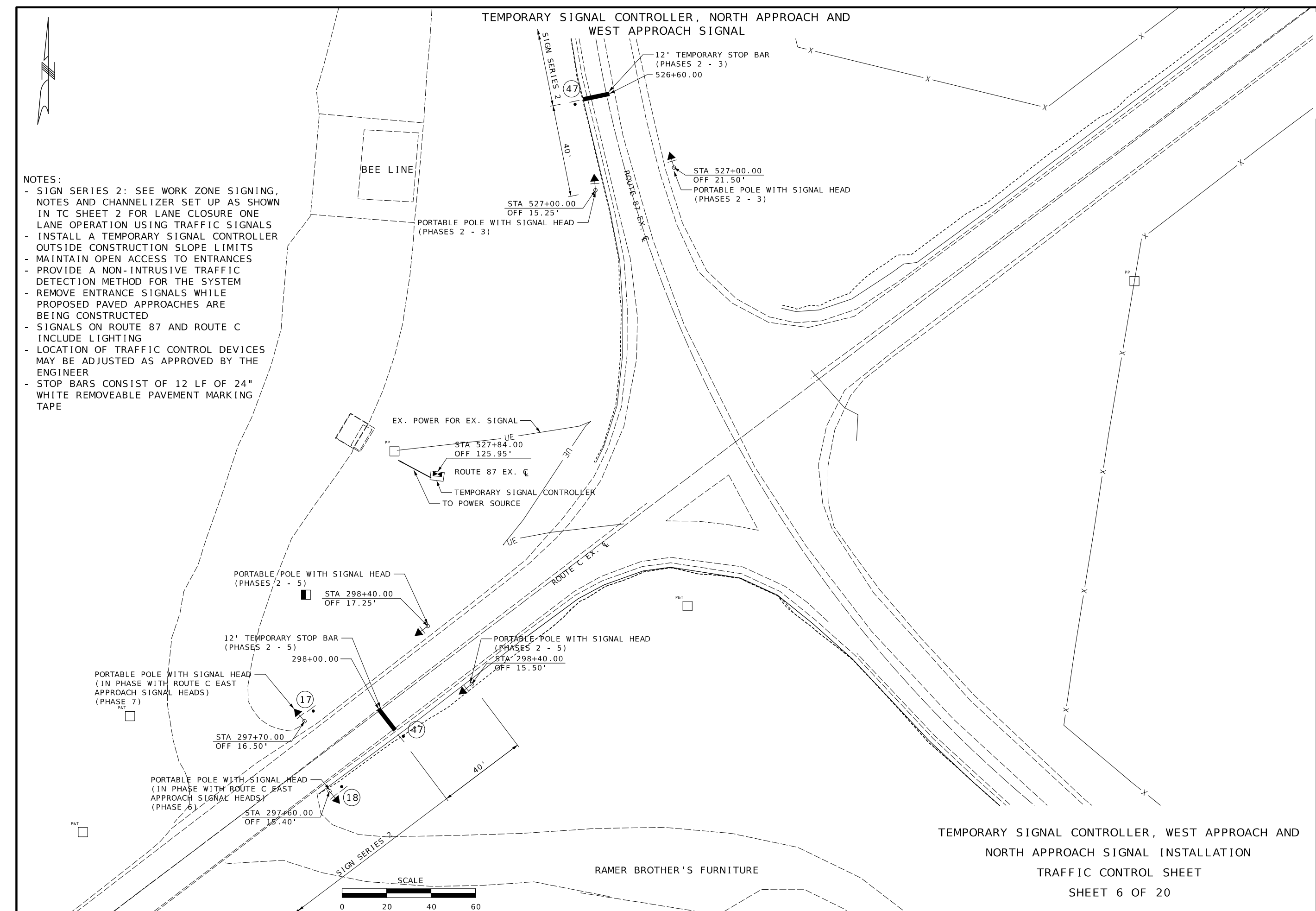
BRIDGE NO.

DATE	DESCRIPTION

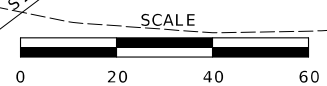
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

NOTES:

- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
- INSTALL A TEMPORARY SIGNAL CONTROLLER OUTSIDE CONSTRUCTION SLOPE LIMITS
- MAINTAIN OPEN ACCESS TO ENTRANCES
- PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
- REMOVE ENTRANCE SIGNALS WHILE PROPOSED PAVED APPROACHES ARE BEING CONSTRUCTED
- SIGNALS ON ROUTE 87 AND ROUTE C INCLUDE LIGHTING
- LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
- STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE

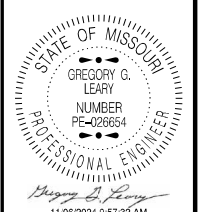
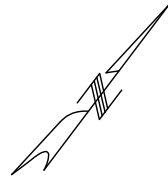


TEMPORARY SIGNAL CONTROLLER, WEST APPROACH AND NORTH APPROACH SIGNAL INSTALLATION  
TRAFFIC CONTROL SHEET  
SHEET 6 OF 20





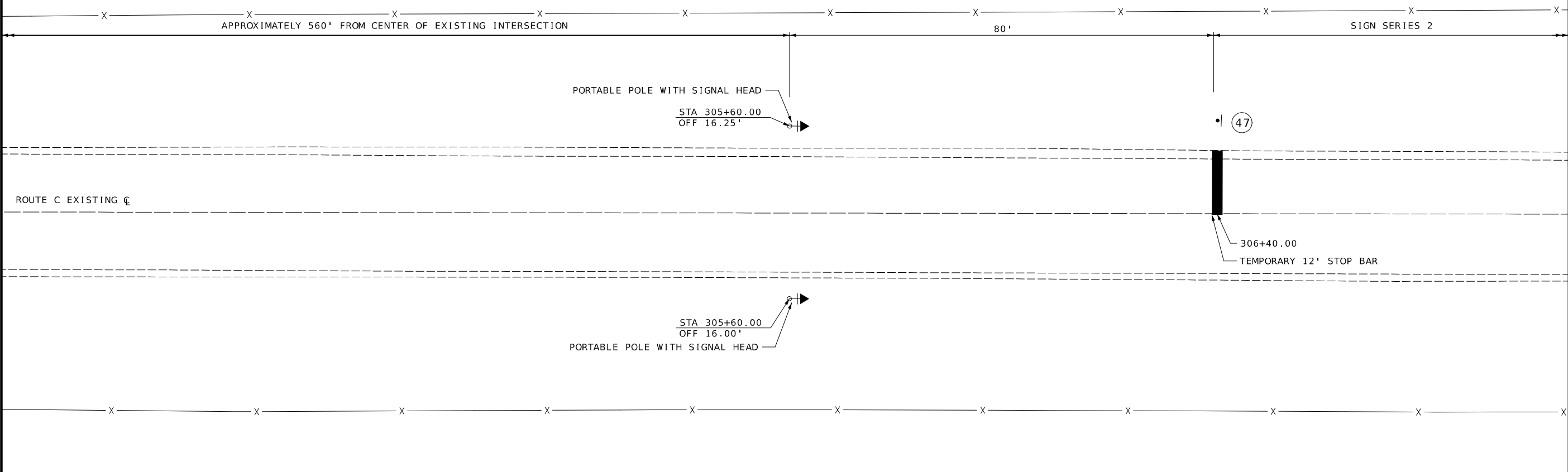
EAST APPROACH TEMPORARY SIGNAL DETAILS



11/05/2024 9:57:32 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654

11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 29
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

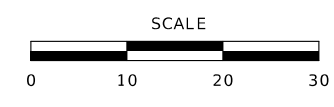


DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - MAINLINE SIGNALS INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE

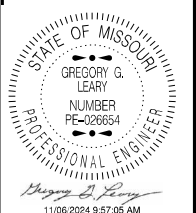


TEMPORARY SIGNAL  
 INSTALLATION EAST APPROACH  
 TRAFFIC CONTROL SHEET  
 SHEET 7 OF 20

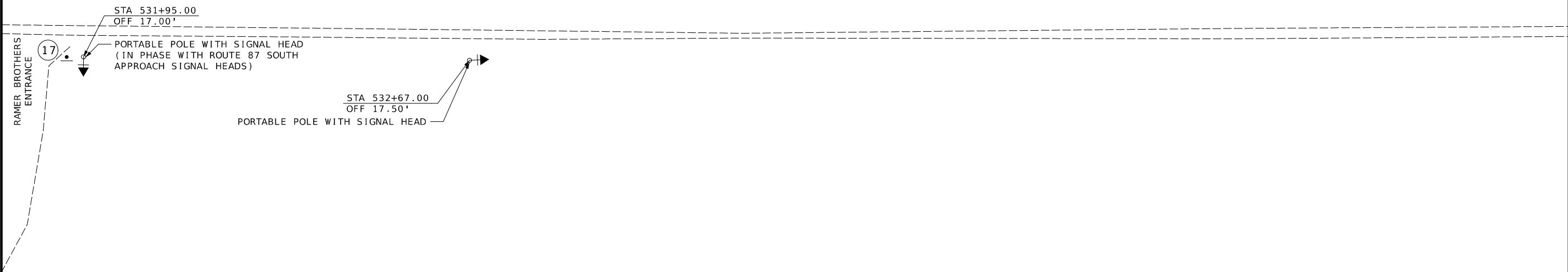
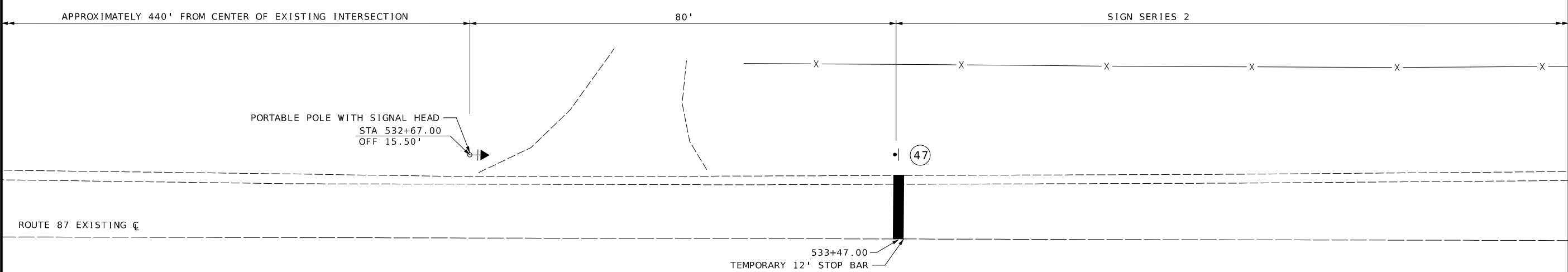
SOUTH APPROACH TEMPORARY SIGNAL DETAILS



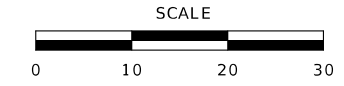
R6-1L  
17



DATE PREPARED	
11/5/2024	
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	30
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - REMOVE ENTRANCE SIGNAL WHILE PROPOSED PAVED APPROACHES ARE BEING CONSTRUCTED
  - MAINLINE SIGNALS INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE



TEMPORARY SIGNAL  
INSTALLATION SOUTH APPROACH  
TRAFFIC CONTROL SHEET  
SHEET 8 OF 20

DATE	DESCRIPTION

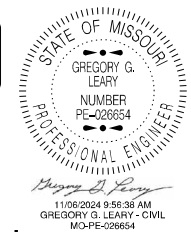
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

NORTH APPROACH TEMPORARY SIGNAL DETAILS



R6-1R  
18



DATE PREPARED	
11/5/2024	
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	31
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

PHASE 4-5: 100' TAPER, 5 CHANNELIZERS TAPER AS SHOWN  
 PHASE 6: MIRROR TAPER TO DIRECT TRAFFIC INTO ROUTE 87 NB LANE  
 PHASE 7: NO CHANNELIZERS

PORTABLE POLE WITH SIGNAL HEAD  
 STA 523+00.00  
 OFF 16.25'

TEMPORARY 12' STOP BAR

522+60.00

ROUTE 87 EXISTING CL

PORTABLE POLE WITH SIGNAL HEAD  
 (IN PHASE WITH ROUTE 87 NORTH  
 APPROACH SIGNAL HEADS)

STA 524+85.00  
 OFF 15.50'

STA 523+00.00  
 OFF 17.25'

PORTABLE POLE WITH SIGNAL HEAD

47

18

BEE LINE ENTRANCE

SIGN SERIES 2

40'

APPROXIMATELY 530' FROM CENTER OF EXISTING INTERSECTION

NOTES:

- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
- ENSURE OPEN ACCESS TO ENTRANCES
- PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
- REMOVE ENTRANCE SIGNAL WHILE PROPOSED PAVED APPROACHES ARE BEING CONSTRUCTED
- MAINLINE SIGNALS INCLUDE LIGHTING
- LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
- STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE

SCALE



TEMPORARY SIGNAL  
 INSTALLATION NORTH APPROACH  
 (PHASE 4 - 7)  
 TRAFFIC CONTROL SHEET  
 SHEET 9 OF 20

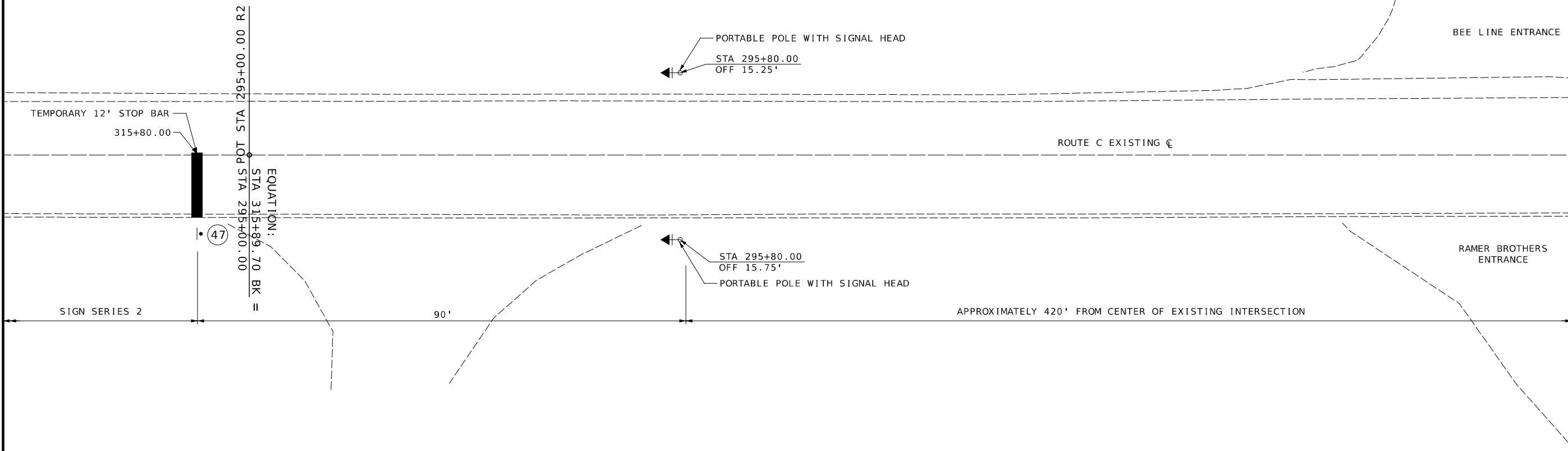
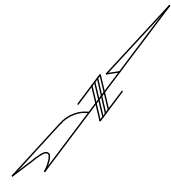
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

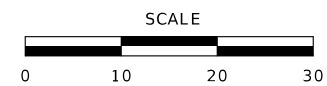


105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

WEST APPROACH TEMPORARY SIGNAL DETAILS



- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - PROVIDE A NON-INTRUSIVE TRAFFIC DETECTION METHOD FOR THE SYSTEM
  - MAINLINE SIGNALS POLES INCLUDE LIGHTING
  - LOCATION OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER
  - STOP BARS CONSIST OF 12 LF OF 24" WHITE REMOVEABLE PAVEMENT MARKING TAPE



TEMPORARY SIGNAL  
INSTALLATION WEST APPROACH  
(PHASE 6 - 7)  
TRAFFIC CONTROL SHEET  
SHEET 10 OF 20



11/06/2024 9:56:52 AM  
GREGORY G. LEARY - CIVIL  
NO. PE-026654  
DATE PREPARED

11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 32
COUNTY MONITEAU	
JOB NO. JCD0113	
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)



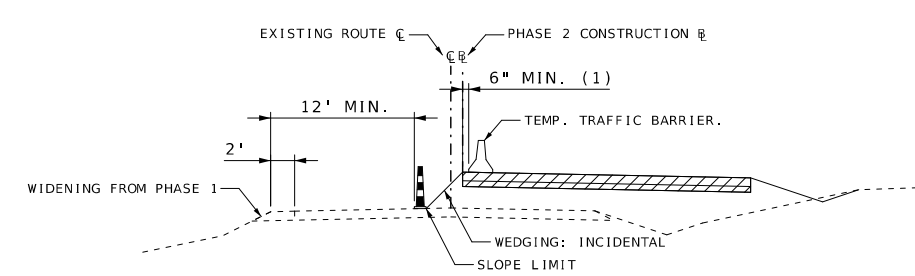
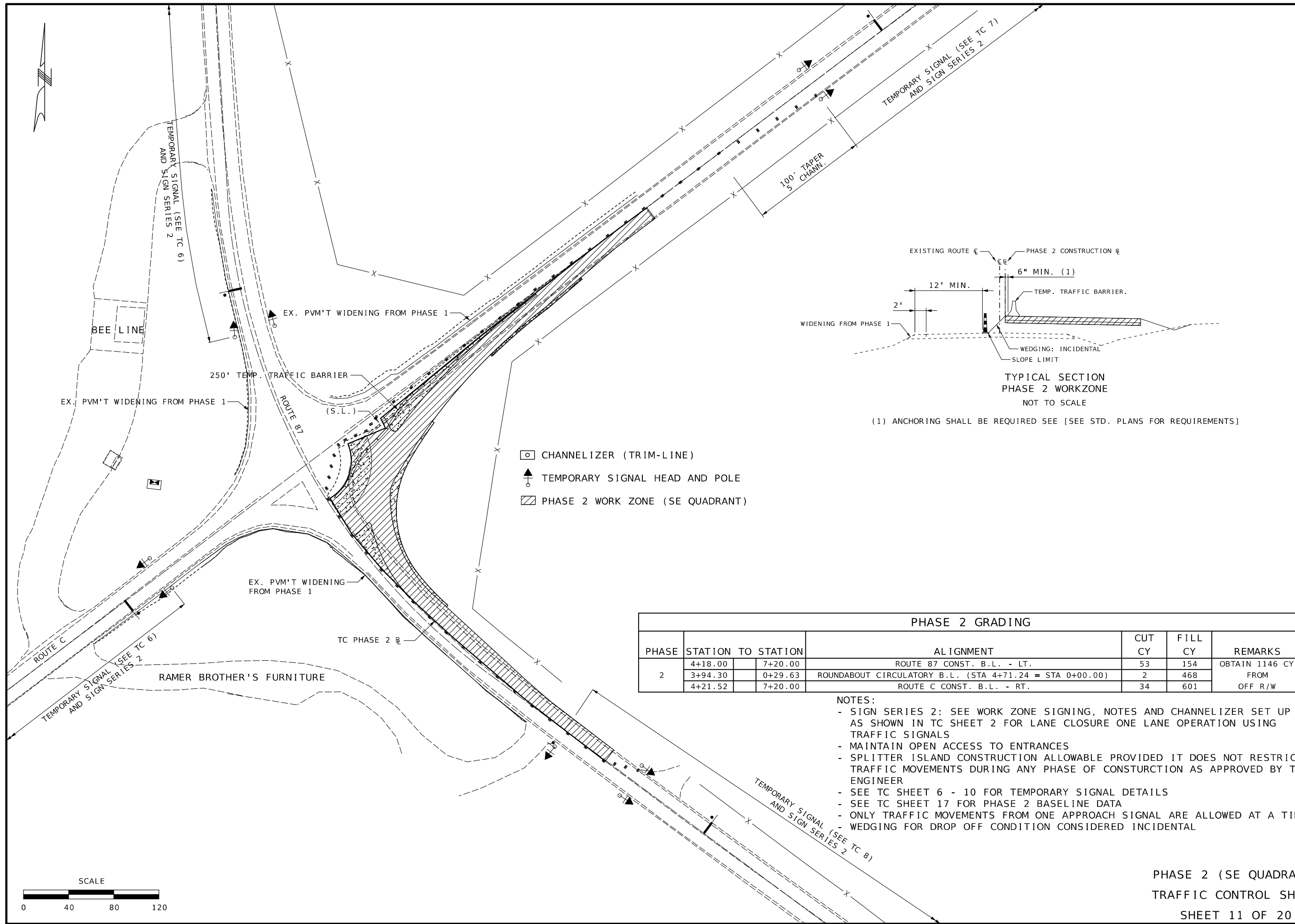
Gregory G. Leary  
11/05/2024 9:56:07 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-028654

DATE PREPARED	11/5/2024
ROUTE	87
STATE	MO
DISTRICT	CD
SHEET NO.	33
COUNTY	MONITEAU
JOB NO.	JCD0113
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

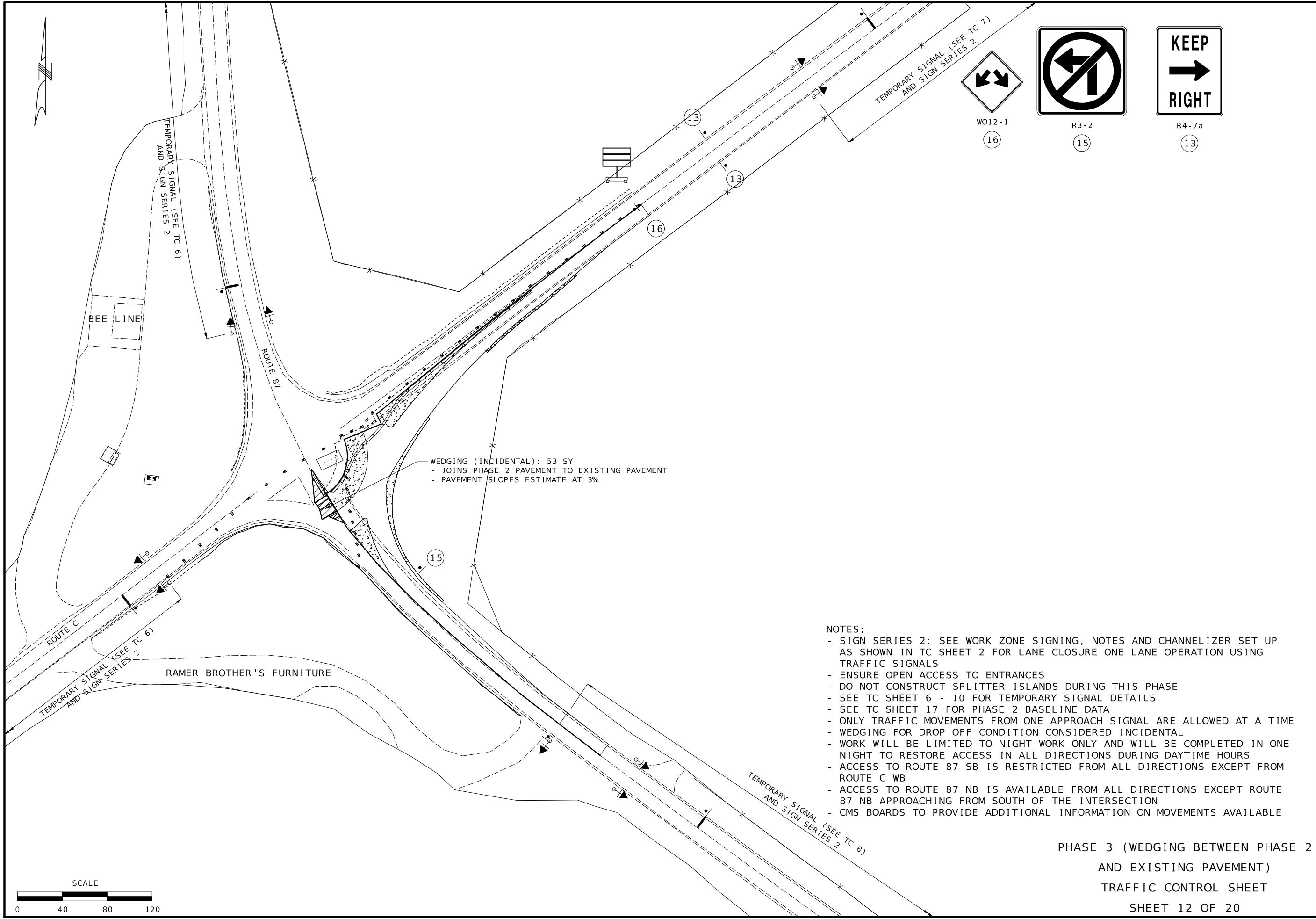
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



TYPICAL SECTION  
PHASE 2 WORKZONE  
NOT TO SCALE  
(1) ANCHORING SHALL BE REQUIRED SEE [SEE STD. PLANS FOR REQUIREMENTS]

PHASE	STATION TO STATION	ALIGNMENT	CUT CY	FILL CY	REMARKS
2	4+18.00	7+20.00			ROUTE 87 CONST. B.L. - LT.
2	3+94.30	0+29.63			ROUNDAABOUT CIRCULATORY B.L. (STA 4+71.24 = STA 0+00.00)
2	4+21.52	7+20.00			ROUTE C CONST. B.L. - RT.
			53	154	OBTAIN 1146 CY FROM OFF R/W
			2	468	
			34	601	

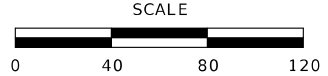
- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 17 FOR PHASE 2 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL



WEDGING (INCIDENTAL): 53 SY  
 - JOINS PHASE 2 PAVEMENT TO EXISTING PAVEMENT  
 - PAVEMENT SLOPES ESTIMATE AT 3%

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE OPEN ACCESS TO ENTRANCES
  - DO NOT CONSTRUCT SPLITTER ISLANDS DURING THIS PHASE
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 17 FOR PHASE 2 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL
  - WORK WILL BE LIMITED TO NIGHT WORK ONLY AND WILL BE COMPLETED IN ONE NIGHT TO RESTORE ACCESS IN ALL DIRECTIONS DURING DAYTIME HOURS
  - ACCESS TO ROUTE 87 SB IS RESTRICTED FROM ALL DIRECTIONS EXCEPT FROM ROUTE C WB
  - ACCESS TO ROUTE 87 NB IS AVAILABLE FROM ALL DIRECTIONS EXCEPT ROUTE 87 NB APPROACHING FROM SOUTH OF THE INTERSECTION
  - CMS BOARDS TO PROVIDE ADDITIONAL INFORMATION ON MOVEMENTS AVAILABLE

PHASE 3 (WEDGING BETWEEN PHASE 2 AND EXISTING PAVEMENT)  
 TRAFFIC CONTROL SHEET  
 SHEET 12 OF 20



STATE OF MISSOURI  
 GREGORY G. LEARY  
 NUMBER PE-026654  
 PROFESSIONAL ENGINEER  
 11/05/2024 9:56:20 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654

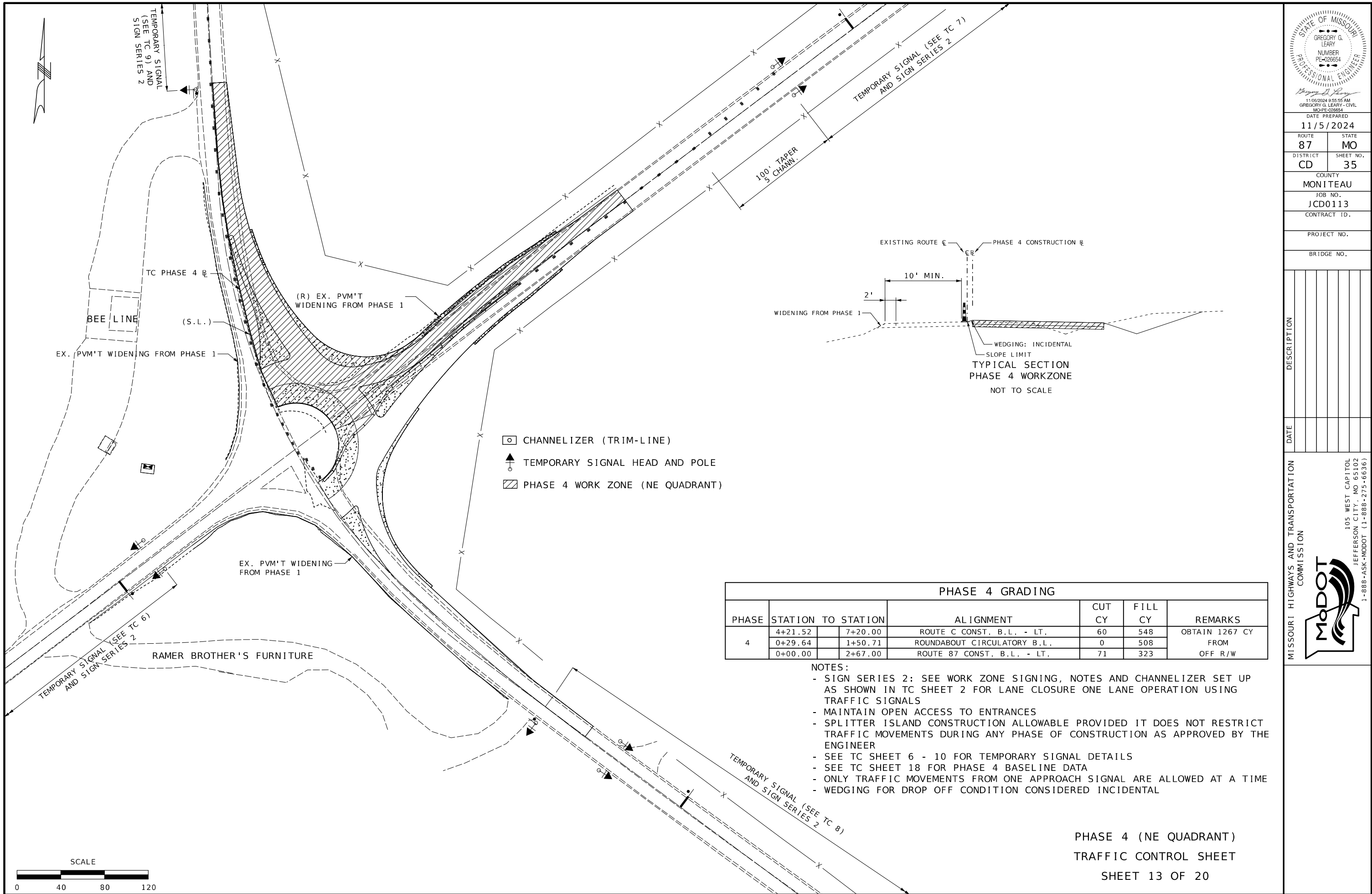
DATE PREPARED 11/6/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 34
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

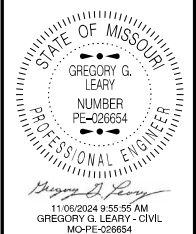
REV.



PHASE 4 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
4	4+21.52	7+20.00	ROUTE C CONST. B.L. - LT.	60	548	OBTAIN 1267 CY FROM OFF R/W
	0+29.64	1+50.71	ROUNDAABOUT CIRCULATORY B.L.	0	508	
	0+00.00	2+67.00	ROUTE 87 CONST. B.L. - LT.	71	323	

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 18 FOR PHASE 4 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL

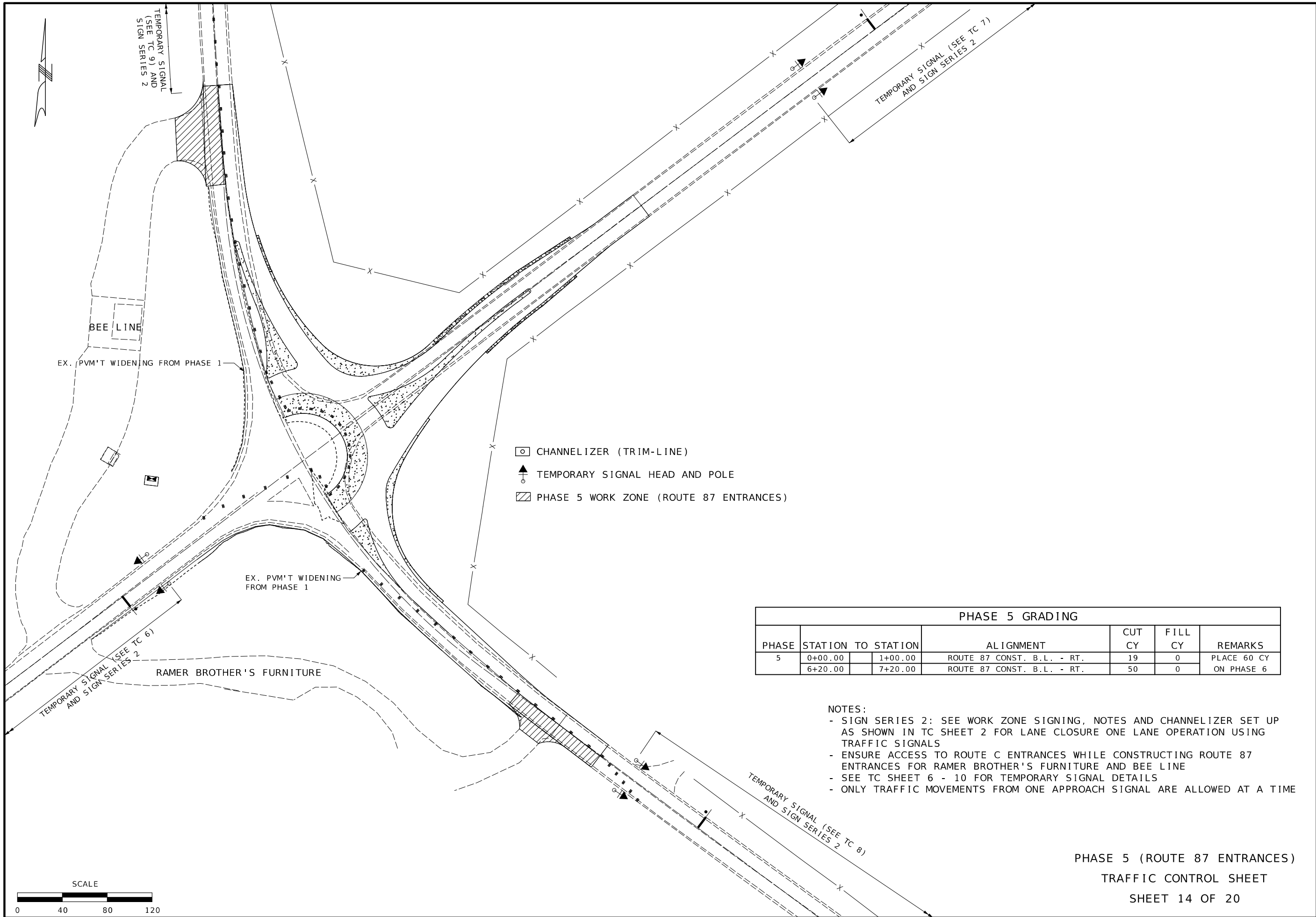
PHASE 4 (NE QUADRANT)  
 TRAFFIC CONTROL SHEET  
 SHEET 13 OF 20



DATE PREPARED  
 11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 35  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 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)



PHASE 5 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
5	0+00.00	1+00.00	ROUTE 87 CONST. B.L. - RT.	19	0	PLACE 60 CY
	6+20.00	7+20.00	ROUTE 87 CONST. B.L. - RT.	50	0	ON PHASE 6

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE ACCESS TO ROUTE C ENTRANCES WHILE CONSTRUCTING ROUTE 87 ENTRANCES FOR RAMER BROTHER'S FURNITURE AND BEE LINE
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME

PHASE 5 (ROUTE 87 ENTRANCES)  
 TRAFFIC CONTROL SHEET  
 SHEET 14 OF 20

11/05/2024 9:59:30 AM  
 GREGORY G. LEARY - CIVIL  
 MOPE-026654  
 DATE PREPARED

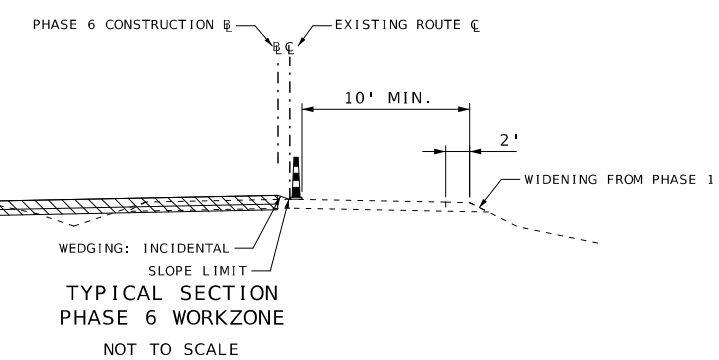
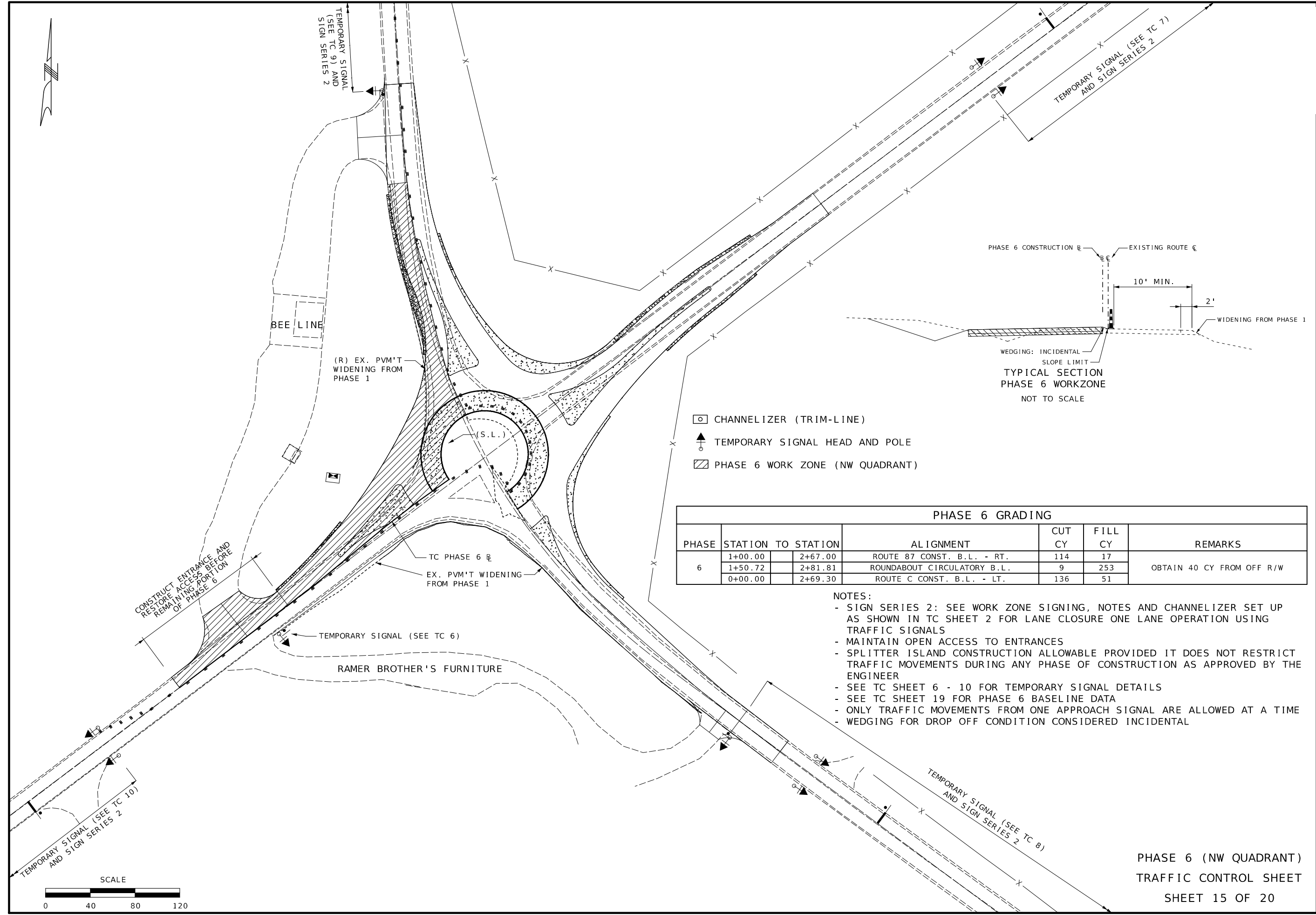
ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	36
COUNTY	
MONITEAU	
JOB NO.	
JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

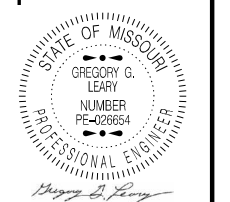
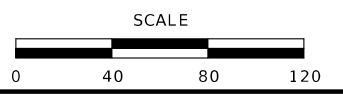




- ◻ CHANNELIZER (TRIM-LINE)
- ▲ TEMPORARY SIGNAL HEAD AND POLE
- ▨ PHASE 6 WORK ZONE (NW QUADRANT)

PHASE 6 GRADING						
PHASE	STATION TO STATION		ALIGNMENT	CUT CY	FILL CY	REMARKS
6	1+00.00	2+67.00	ROUTE 87 CONST. B.L. - RT.	114	17	OBTAIN 40 CY FROM OFF R/W
	1+50.72	2+81.81	ROUNDAABOUT CIRCULATORY B.L.	9	253	
	0+00.00	2+69.30	ROUTE C CONST. B.L. - LT.	136	51	

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - MAINTAIN OPEN ACCESS TO ENTRANCES
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - SEE TC SHEET 19 FOR PHASE 6 BASELINE DATA
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME
  - WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL



DATE PREPARED  
11/6/2024

ROUTE <b>87</b>	STATE <b>MO</b>
DISTRICT <b>CD</b>	SHEET NO. <b>37</b>

COUNTY  
**MONITEAU**

JOB NO.  
**JCD0113**

CONTRACT ID.

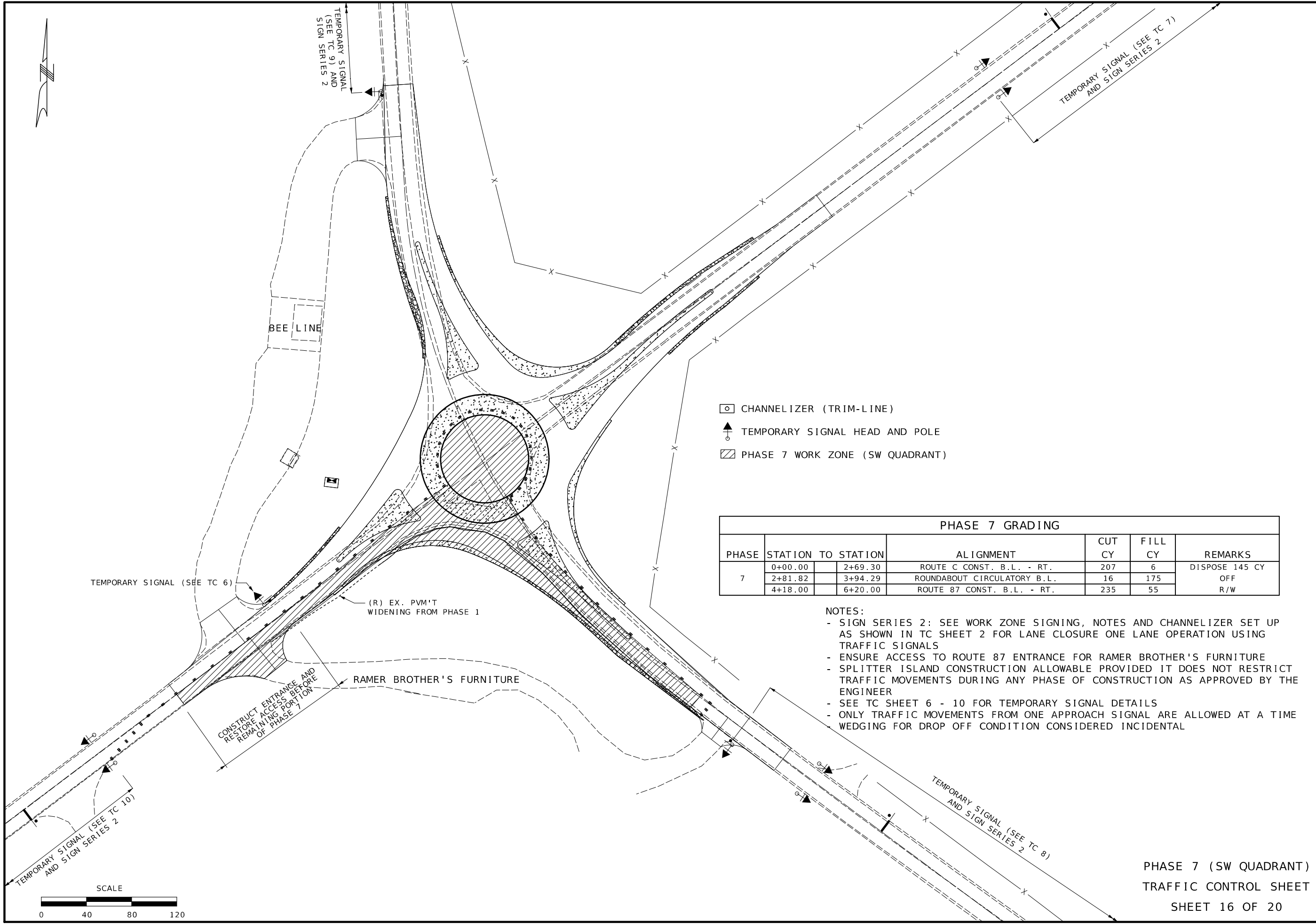
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



- CHANNELIZER (TRIM-LINE)
- ⊕ TEMPORARY SIGNAL HEAD AND POLE
- ▨ PHASE 7 WORK ZONE (SW QUADRANT)

PHASE 7 GRADING						
PHASE	STATION TO	STATION	ALIGNMENT	CUT CY	FILL CY	REMARKS
7	0+00.00	2+69.30	ROUTE C CONST. B.L. - RT.	207	6	DISPOSE 145 CY
	2+81.82	3+94.29	ROUNDAABOUT CIRCULATORY B.L.	16	175	OFF
	4+18.00	6+20.00	ROUTE 87 CONST. B.L. - RT.	235	55	R/W

- NOTES:
- SIGN SERIES 2: SEE WORK ZONE SIGNING, NOTES AND CHANNELIZER SET UP AS SHOWN IN TC SHEET 2 FOR LANE CLOSURE ONE LANE OPERATION USING TRAFFIC SIGNALS
  - ENSURE ACCESS TO ROUTE 87 ENTRANCE FOR RAMER BROTHER'S FURNITURE
  - SPLITTER ISLAND CONSTRUCTION ALLOWABLE PROVIDED IT DOES NOT RESTRICT TRAFFIC MOVEMENTS DURING ANY PHASE OF CONSTRUCTION AS APPROVED BY THE ENGINEER
  - SEE TC SHEET 6 - 10 FOR TEMPORARY SIGNAL DETAILS
  - ONLY TRAFFIC MOVEMENTS FROM ONE APPROACH SIGNAL ARE ALLOWED AT A TIME WEDGING FOR DROP OFF CONDITION CONSIDERED INCIDENTAL

PHASE 7 (SW QUADRANT)  
TRAFFIC CONTROL SHEET  
SHEET 16 OF 20

STATE OF MISSOURI  
GREGORY G. LEARY  
NUMBER  
PE-026654  
PROFESSIONAL ENGINEER

11/06/2024 9:58:17 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

DATE PREPARED		11/5/2024	
ROUTE	STATE	87	MO
DISTRICT	SHEET NO.	CD	38
COUNTY			
MONITEAU			
JOB NO.			
JCD0113			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

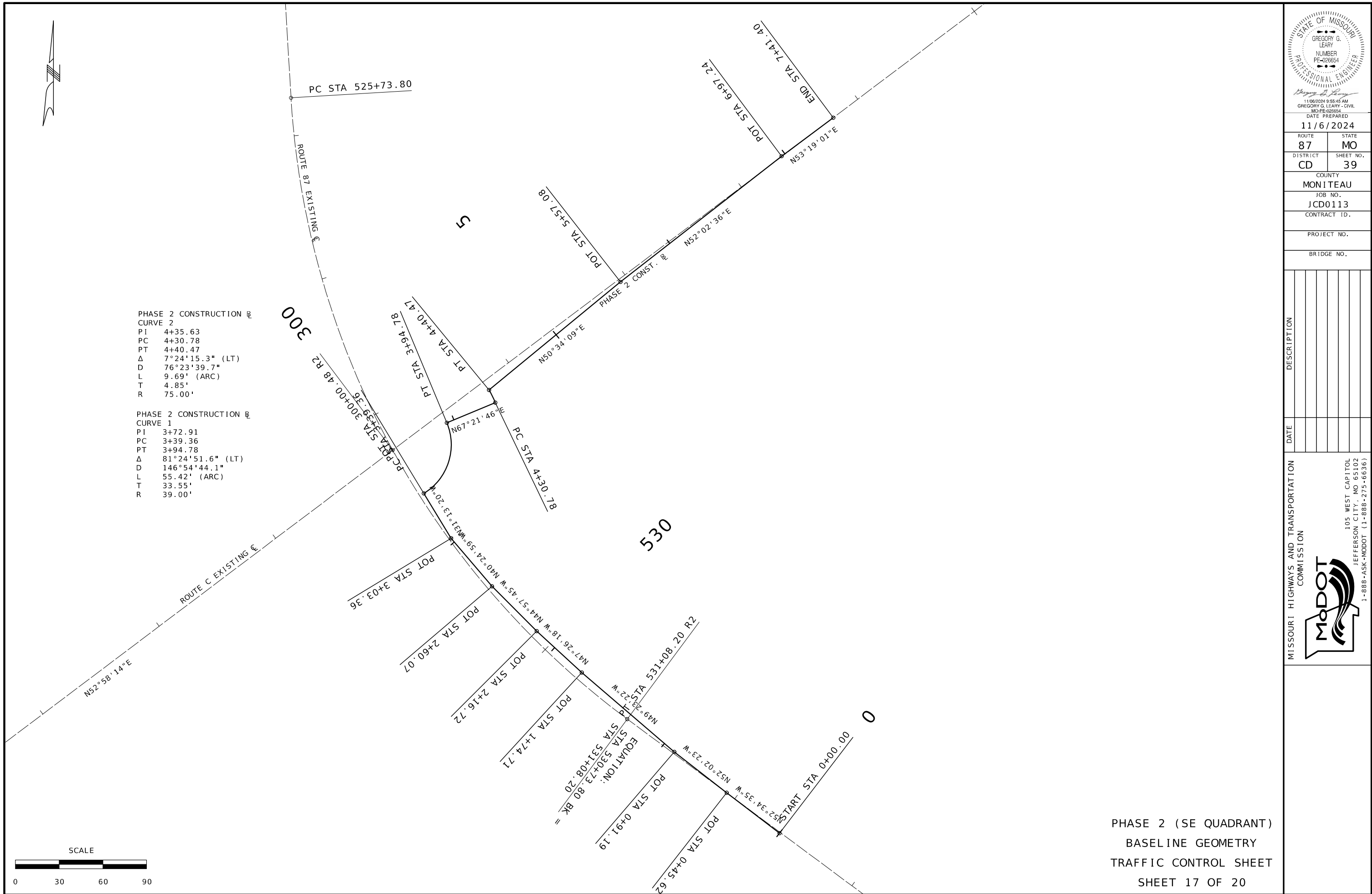
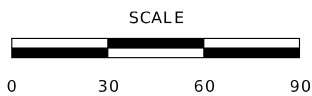
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

REV.

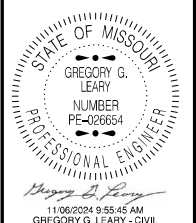


PHASE 2 CONSTRUCTION @  
 CURVE 2  
 PI 4+35.63  
 PC 4+30.78  
 PT 4+40.47  
 Δ 7°24'15.3" (LT)  
 D 76°23'39.7"  
 L 9.69' (ARC)  
 T 4.85'  
 R 75.00'

PHASE 2 CONSTRUCTION @  
 CURVE 1  
 PI 3+72.91  
 PC 3+39.36  
 PT 3+94.78  
 Δ 81°24'51.6" (LT)  
 D 146°54'44.1"  
 L 55.42' (ARC)  
 T 33.55'  
 R 39.00'



PHASE 2 (SE QUADRANT)  
 BASELINE GEOMETRY  
 TRAFFIC CONTROL SHEET  
 SHEET 17 OF 20

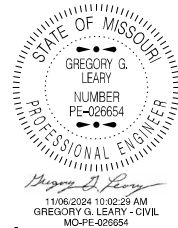


DATE PREPARED  
 11/6/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 39  
 COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED  
11/6/2024 10:02:29 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 40

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

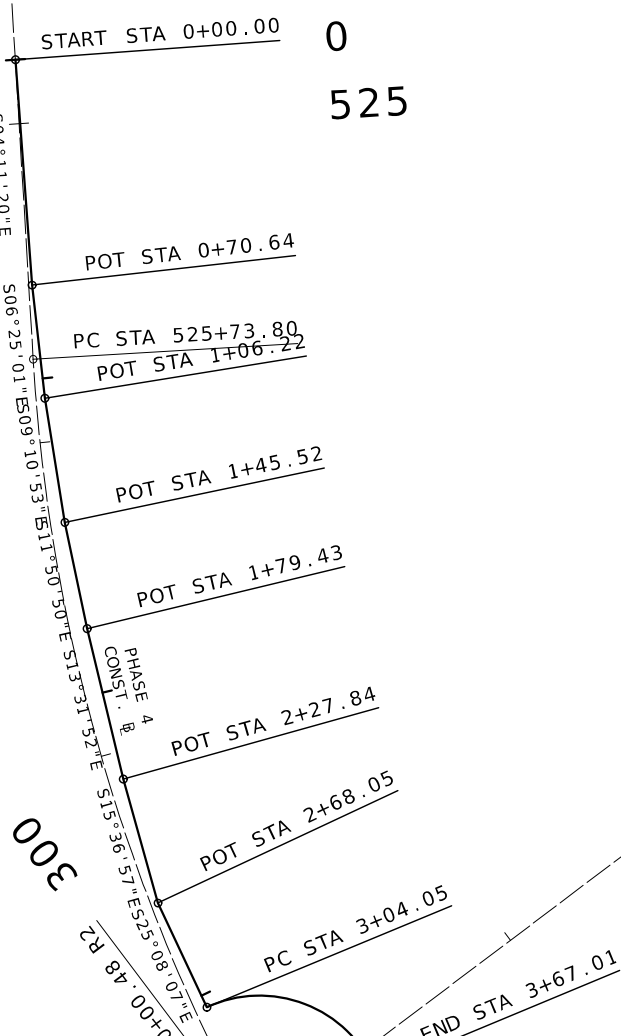
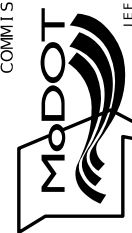
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

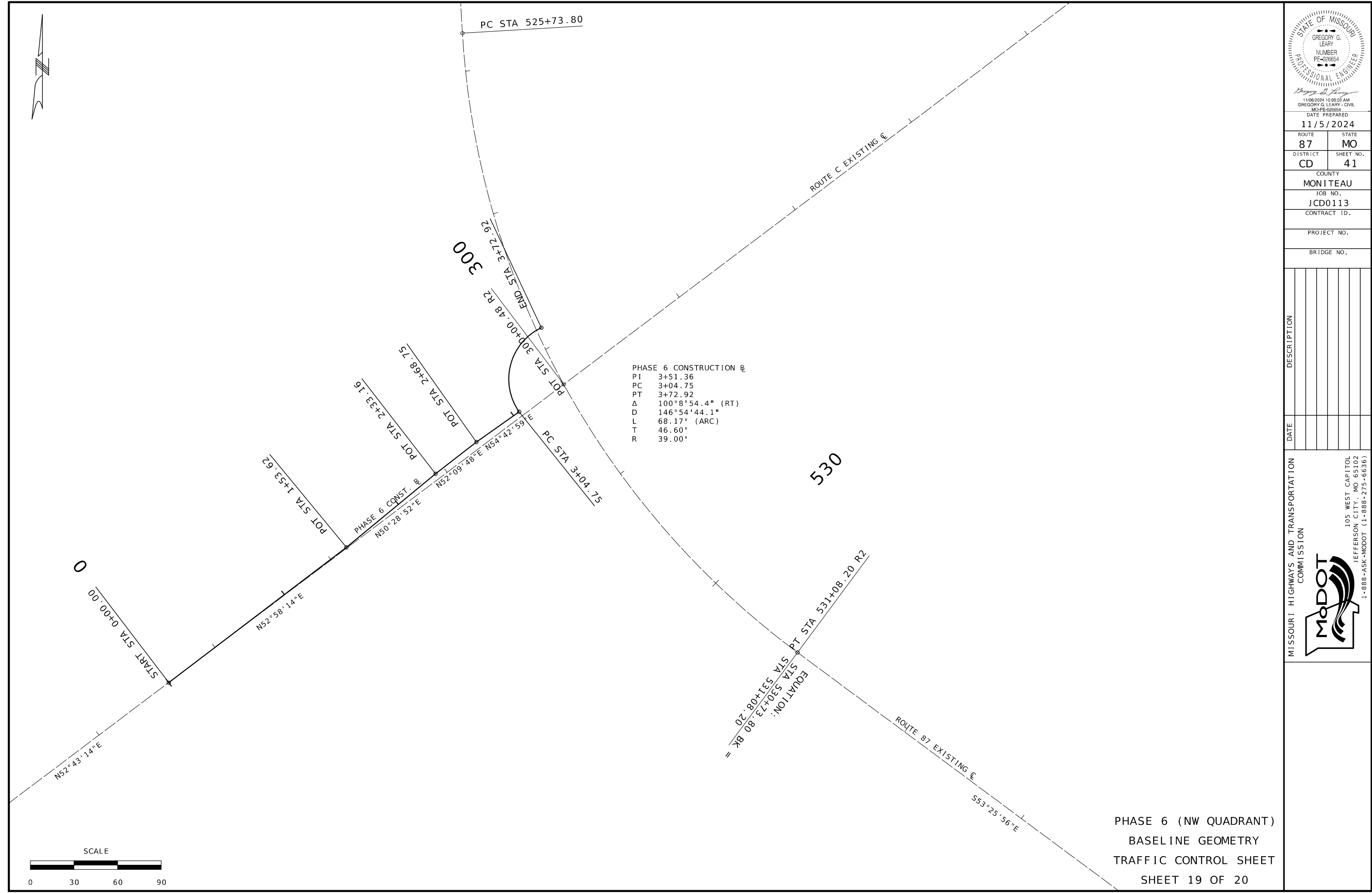


PHASE 4 CONSTRUCTION @  
 PI 3+44.79  
 PC 3+04.05  
 PT 3+67.01  
 Δ 92°29'52.5" (RT)  
 D 146°54'44.1"  
 L 62.96' (ARC)  
 T 40.74'  
 R 39.00'

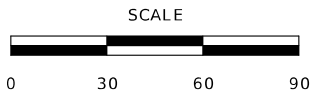


PHASE 4 (NE QUADRANT)  
 BASELINE GEOMETRY  
 TRAFFIC CONTROL SHEET  
 SHEET 18 OF 20

EQUATION:  
 STA 530+73.80 BK  
 STA 531+08.20  
 LD STA 531+08.20 R2



PHASE 6 CONSTRUCTION @  
 PI 3+51.36  
 PC 3+04.75  
 PT 3+72.92  
 Δ 100° 8' 54.4" (RT)  
 D 146° 54' 44.1"  
 L 68.17' (ARC)  
 T 46.60'  
 R 39.00'



PHASE 6 (NW QUADRANT)  
 BASELINE GEOMETRY  
 TRAFFIC CONTROL SHEET  
 SHEET 19 OF 20



DATE PREPARED  
 11/5/2024

ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 41

COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.

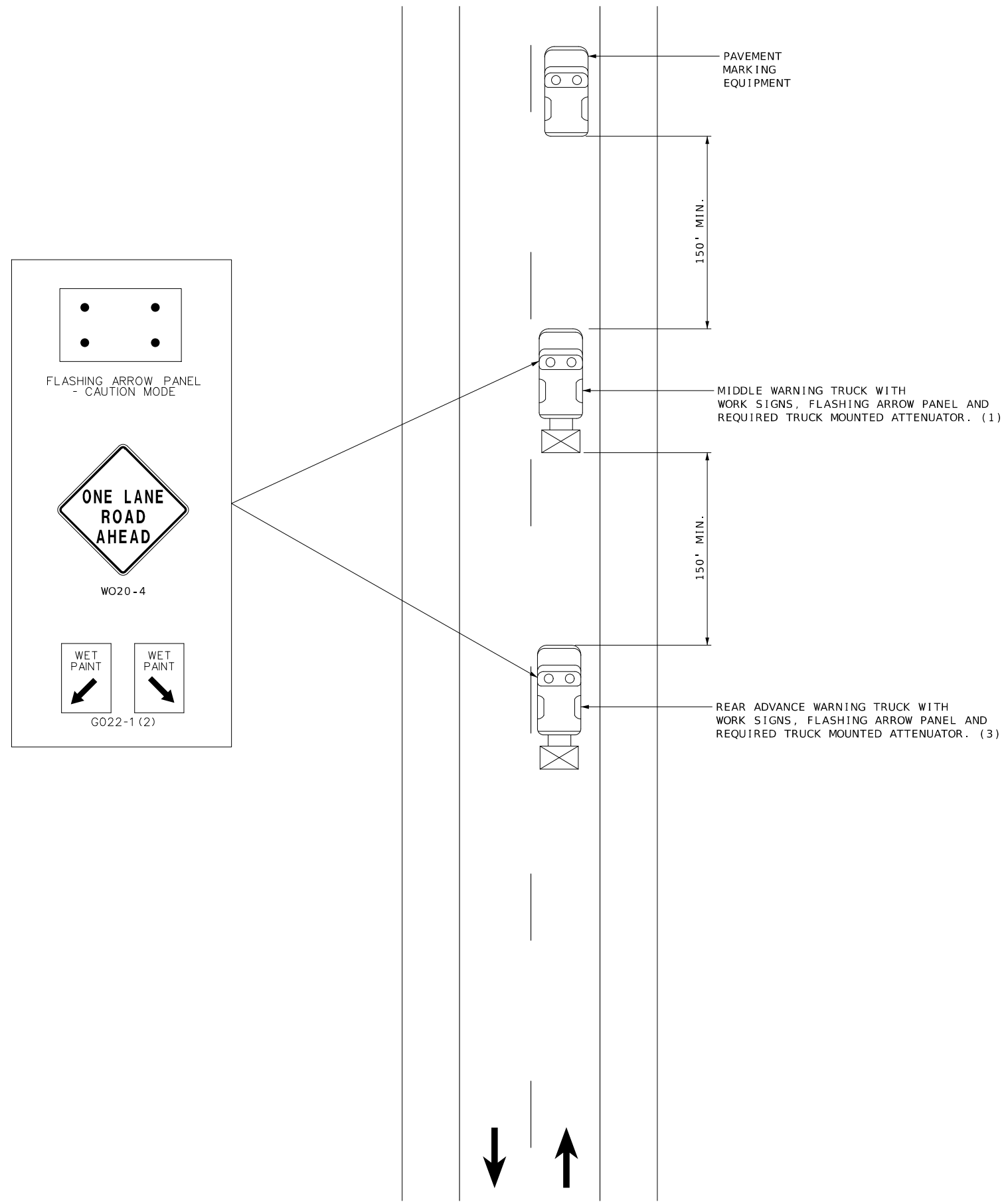
PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-273-6636)

NOT TO SCALE



NOTES:

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

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

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

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

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

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

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

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

STRIPING ON TWO-LANE HIGHWAY



DATE PREPARED  
11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 42

COUNTY  
MONITEAU

JOB NO.  
JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.







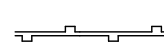



DATE	DESCRIPTION

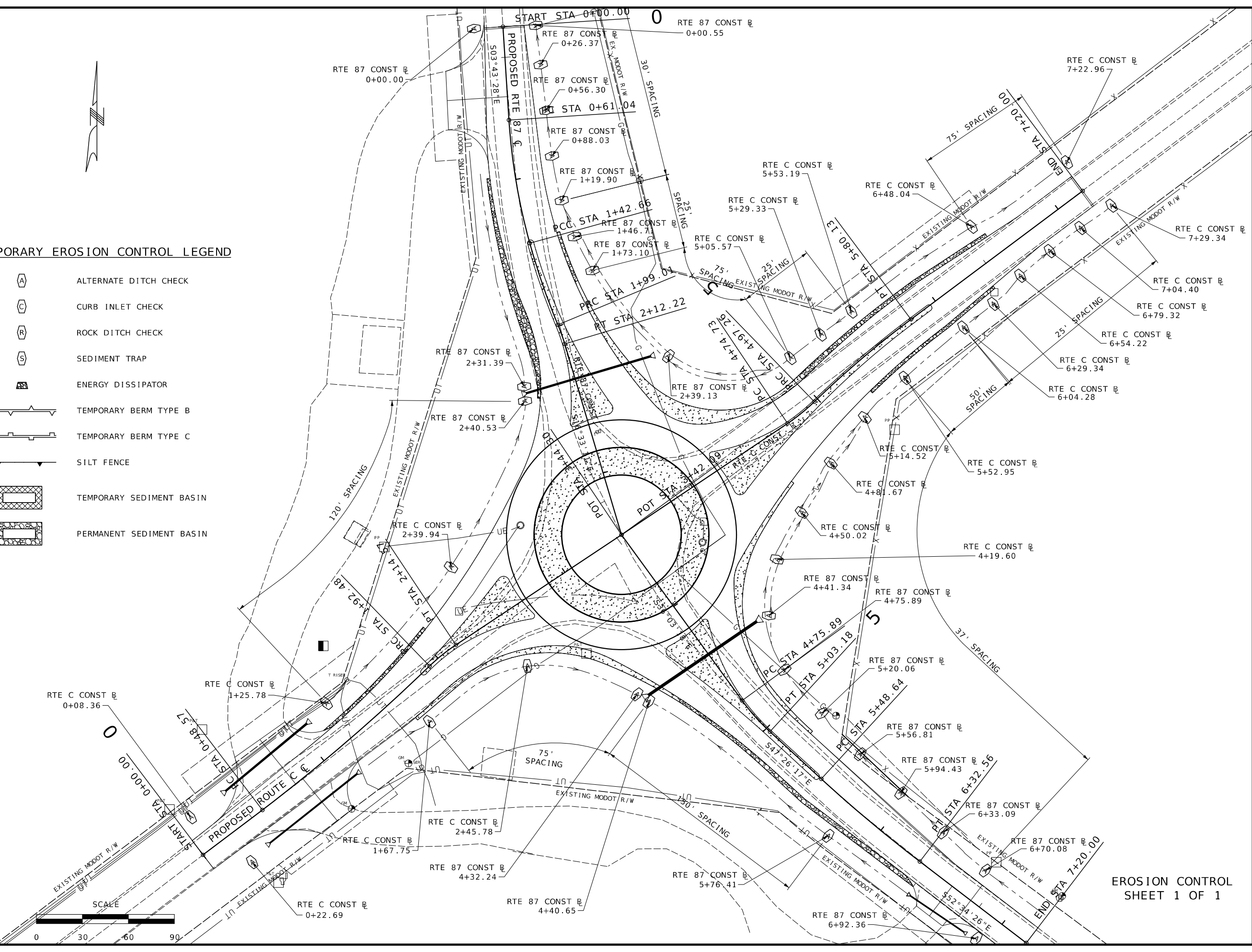
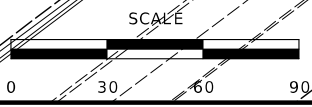
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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




### TEMPORARY EROSION CONTROL LEGEND

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




EROSION CONTROL  
SHEET 1 OF 1



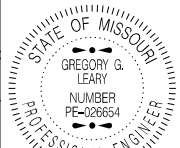
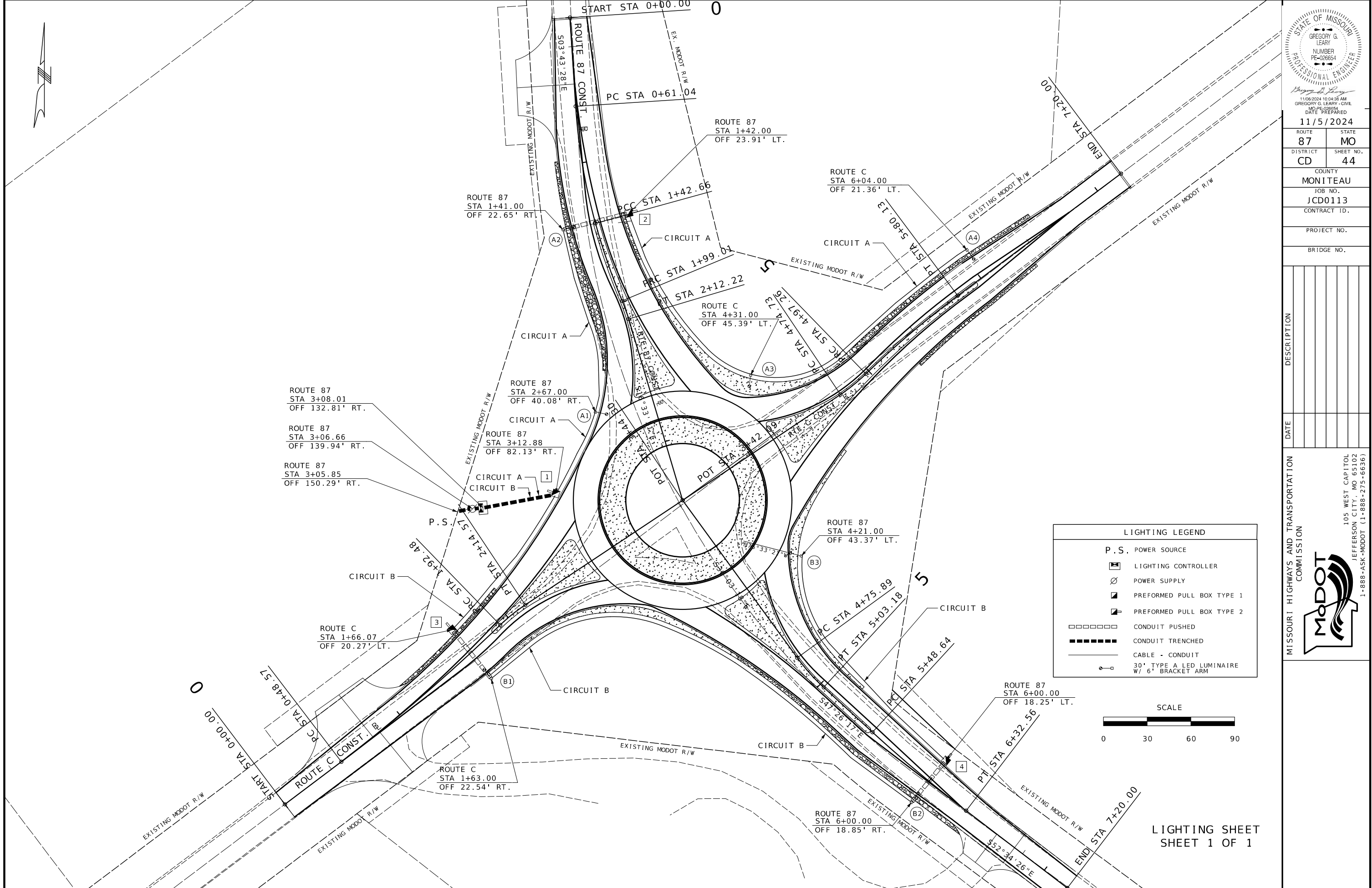
11/06/2024 10:04:08 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED

11/6/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 43
COUNTY MONITEAU	
JOB NO. JCD0113	
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)



11/06/2024 10:04:36 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED

11/5/2024  
 ROUTE 87 STATE MO  
 DISTRICT CD SHEET NO. 44

COUNTY MONITEAU  
 JOB NO. JCD0113  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

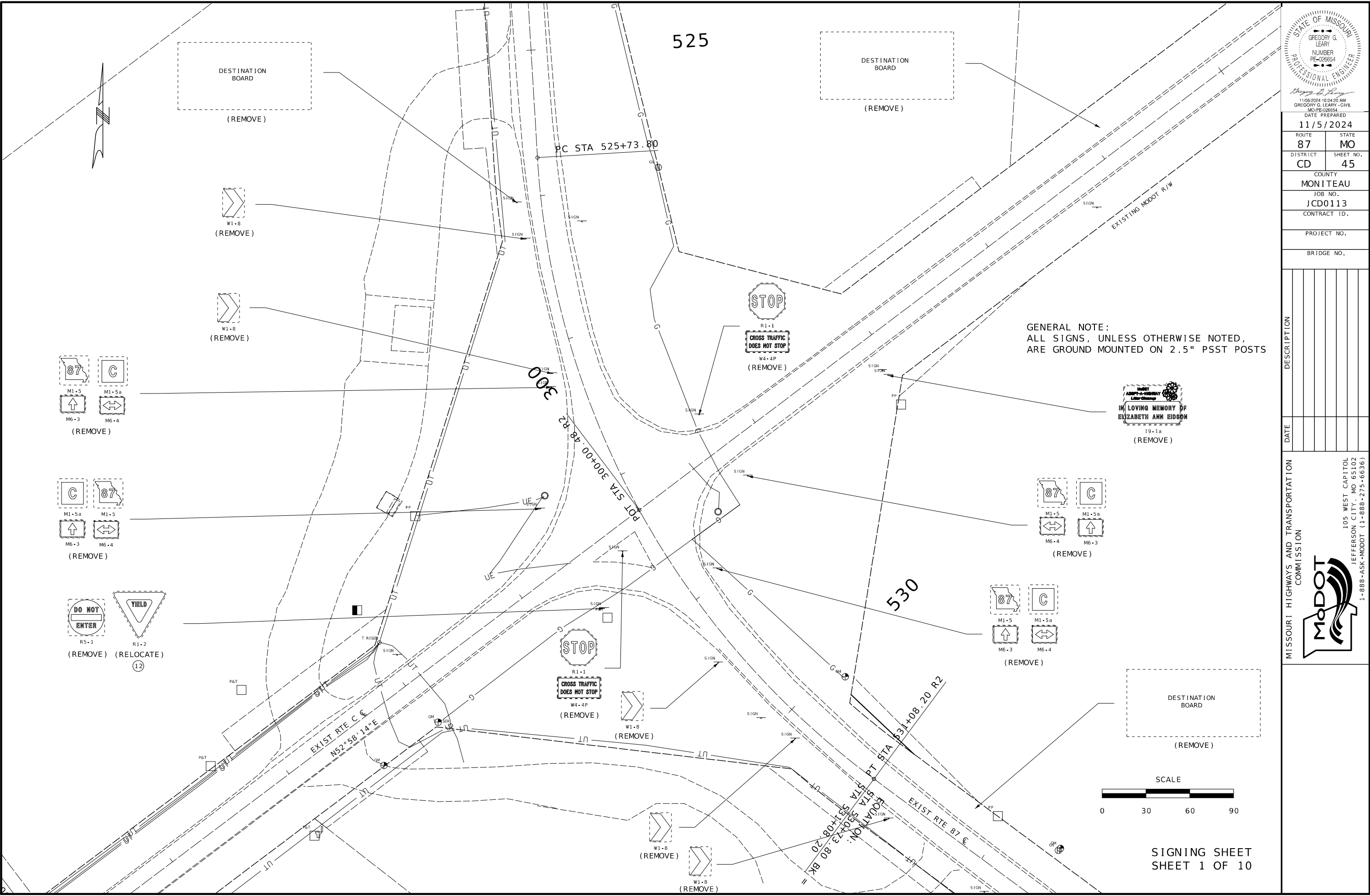
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

**LIGHTING LEGEND**

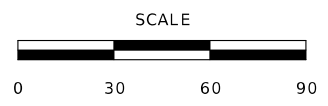
- P.S. POWER SOURCE
- [Symbol] LIGHTING CONTROLLER
- [Symbol] POWER SUPPLY
- [Symbol] PREFORMED PULL BOX TYPE 1
- [Symbol] PREFORMED PULL BOX TYPE 2
- [Symbol] CONDUIT PUSHED
- [Symbol] CONDUIT TRENCHED
- [Symbol] CABLE - CONDUIT
- [Symbol] 30' TYPE A LED LUMINAIRE W/ 6' BRACKET ARM

LIGHTING SHEET  
 SHEET 1 OF 1





GENERAL NOTE:  
ALL SIGNS, UNLESS OTHERWISE NOTED,  
ARE GROUND MOUNTED ON 2.5" PSST POSTS



SIGNING SHEET  
SHEET 1 OF 10

**STATE OF MISSOURI**  
GREGORY G. LEARY  
NUMBER PE-226654  
PROFESSIONAL ENGINEER

*Gregory G. Leary*  
11/06/2024 10:54:20 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-226654

DATE PREPARED  
**11/5/2024**

ROUTE <b>87</b>	STATE <b>MO</b>
DISTRICT <b>CD</b>	SHEET NO. <b>45</b>

COUNTY  
**MONITEAU**

JOB NO.  
**JCD0113**

CONTRACT ID.

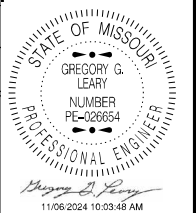
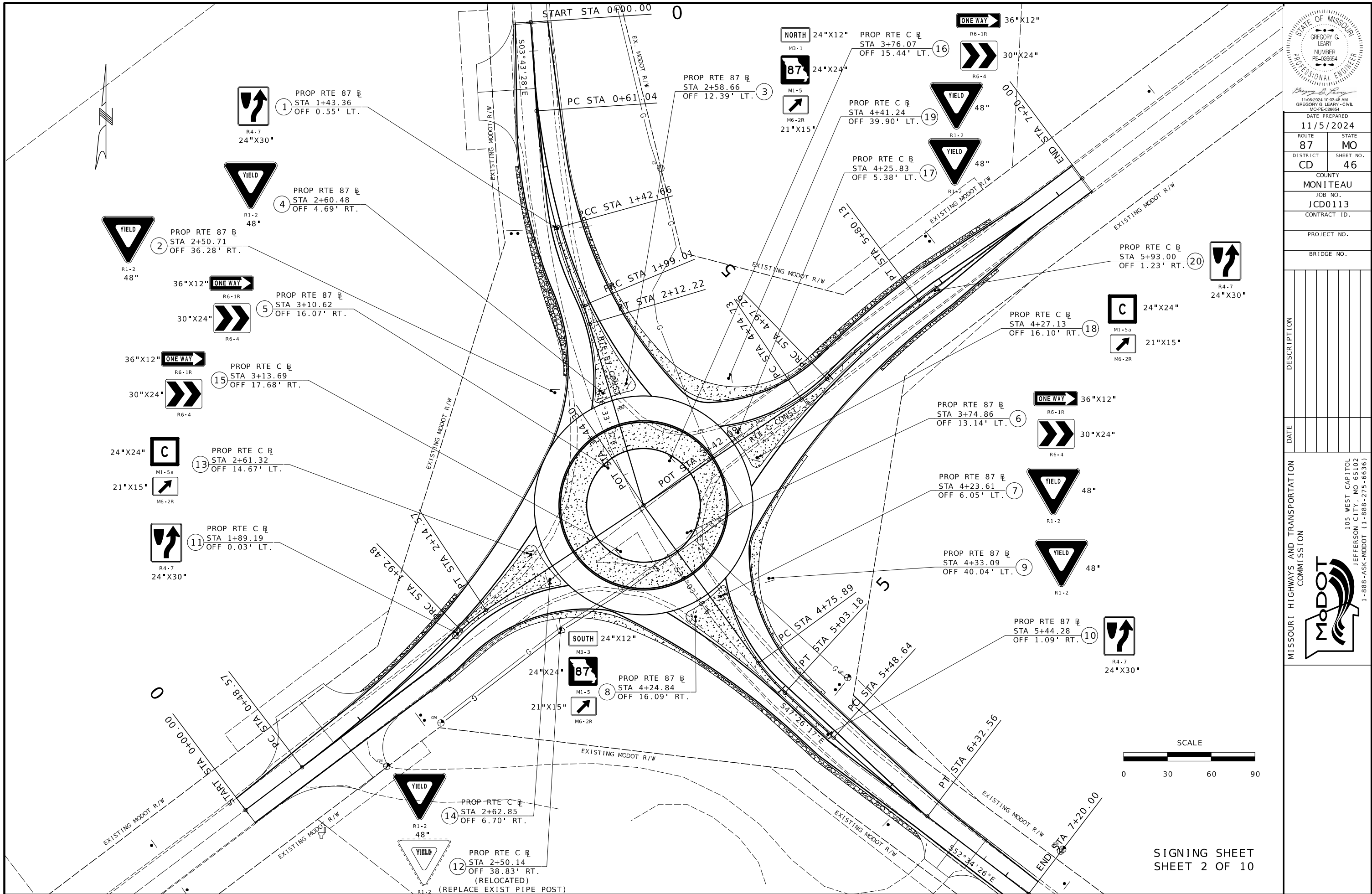
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 46

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

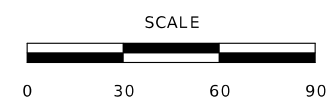
BRIDGE NO.

DESCRIPTION	DATE

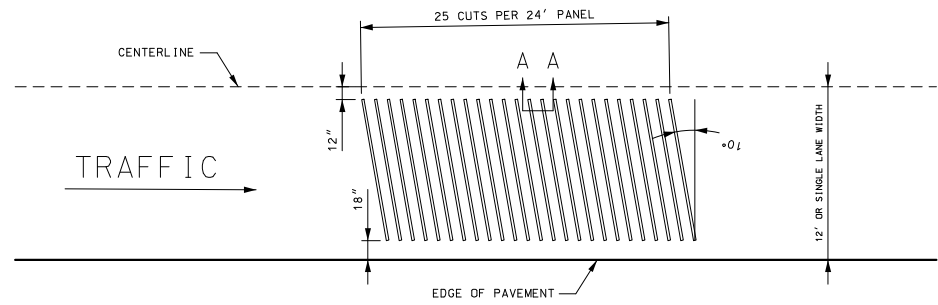
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

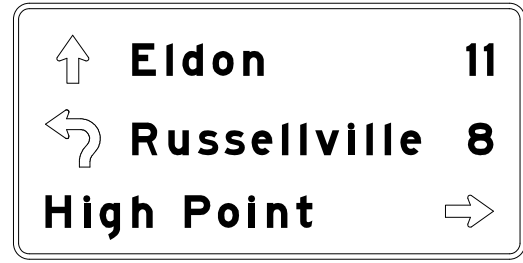


SIGNING SHEET  
SHEET 2 OF 10

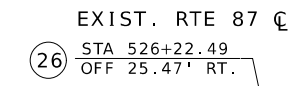


SECTION A-A  
RUMBLE STRIP CUT IN NEW  
PCC OR HMA PAVEMENT

TYPICAL TRANSVERSE RUMBLE STRIP DIMENSIONS



D1-3d  
96"X48"



EXIST. RTE 87 C  
26 STA 526+22.49  
OFF 25.47' RT.

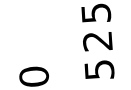


NORTH

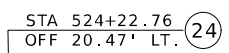


M3-1

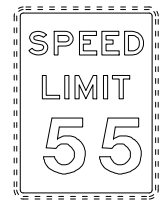
M1-5  
(RELOCATE)  
(USE EXIST PSST POST)



525



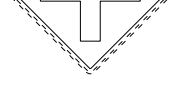
24 STA 524+22.76  
OFF 20.47' LT.



R2-1  
(UIP)



520



W2-1  
(REMOVE)

PROPOSED TRANSVERSE RUMBLE STRIP

PROPOSED TRANSVERSE RUMBLE STRIP

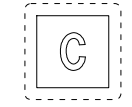
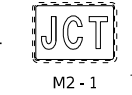
EXIST. RTE 87 C  
503°25'12"E

175'

503°43'28"E

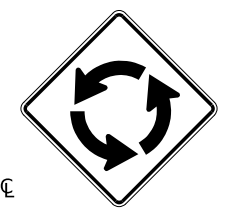
EXISTING MODOT R/W

EXIST. RTE 87 C  
STA 518+24.18  
OFF 21.62' RT. 21



M1-5a  
(RELOCATE)  
(USE EXIST PSST POST)

EXIST. RTE 87 C  
STA 520+24.18  
OFF 21.50' RT. 22

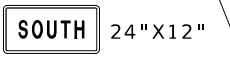


W2-6  
36"X36"



W13-1P  
24"X24"

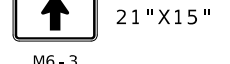
EXIST. RTE 87 C  
STA 522+24.18  
OFF 21.37' RT. 23



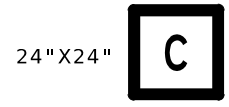
M3-3  
24"X12"



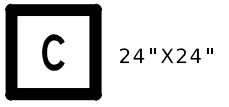
M1-5  
24"X24"



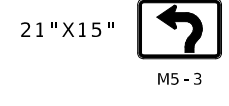
M6-3  
21"X15"



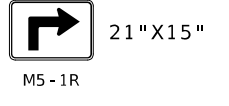
M1-5a  
24"X24"



M1-5a  
24"X24"



M5-3  
21"X15"

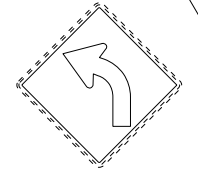


M5-1R  
21"X15"

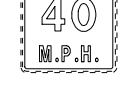


W1-8  
(REMOVE)

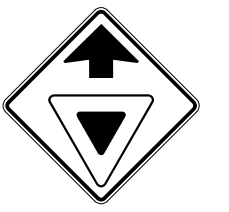
EXIST. RTE 87 C  
STA 524+24.16  
OFF 21.27' RT. 25



W1-2L

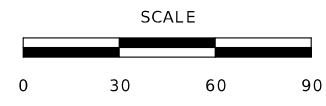


W13-1P  
(REMOVE)



W3-2  
36"X36"

SIGNING SHEET  
SHEET 3 OF 10



STATE OF MISSOURI  
GREGORY G. LEARY  
NUMBER PE-026654  
PROFESSIONAL ENGINEER

11/06/2024 10:03:34 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED

11/5/2024

ROUTE	STATE
87	MO
DISTRICT	SHEET NO.
CD	47

COUNTY  
MONITEAU

JOB NO.  
JCD0113

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)



11/06/2024 10:03:21 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-028654

11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 48

COUNTY MONITEAU

JOB NO. JCD0113

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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DATE

DESCRIPTION

↑ California 10  
↶ High Point  
Russellville 8 →

D1-3d  
96"X48"

24"X12" NORTH  
M3-1

24"X24" 87  
M1-5

21"X15" ↑  
M6-3

W2-6  
36"X36"  
15  
M.P.H.  
W13-1P  
24"X24"

JCT  
M2-1

C  
M1-5a

(RELOCATE)  
(REPLACE WOOD POST)

EXIST. RTE 87 C  
32 STA 538+54.17  
OFF 19.62' LT.

W3-2  
36"X36"

EXIST. RTE 87 C  
29 STA 532+54.17  
OFF 19.62' LT.

24"X24" C  
M1-5a

24"X24" C  
M1-5a

21"X15" ↶  
M5-3

21"X15" ↷  
M5-1R

EXIST. RTE 87 C  
30 STA 534+54.17  
OFF 19.62' LT.

EXIST. RTE 87 C  
31 STA 536+54.17  
OFF 19.62' LT.

PROPOSED TRANSVERSE  
RUMBLE STRIP

PROPOSED TRANSVERSE  
RUMBLE STRIP

EXIST. RTE 87 C

SOUTH  
M3-3

87  
M1-5

(RELOCATE)  
(USE EXIST PSST POST)

28 STA 531+33.04  
OFF 19.97' RT.

W1-8

(REMOVE)

SPEED  
LIMIT  
55  
R2-1  
(UIP)

W1-2R

40  
M.P.H.  
W13-1P

(UIP)

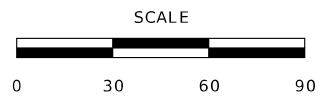
W2-1

(REMOVE)

W1-2R

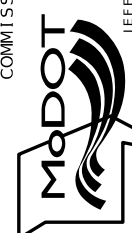
40  
M.P.H.  
W13-1P

(REMOVE)

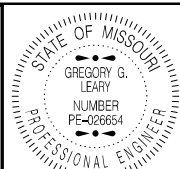


SIGNING SHEET  
SHEET 4 OF 10

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



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



DATE PREPARED  
11/5/2024

ROUTE 87 STATE MO

DISTRICT CD SHEET NO. 49

COUNTY MONITEAU

JOB NO. JCD0113

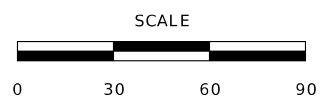
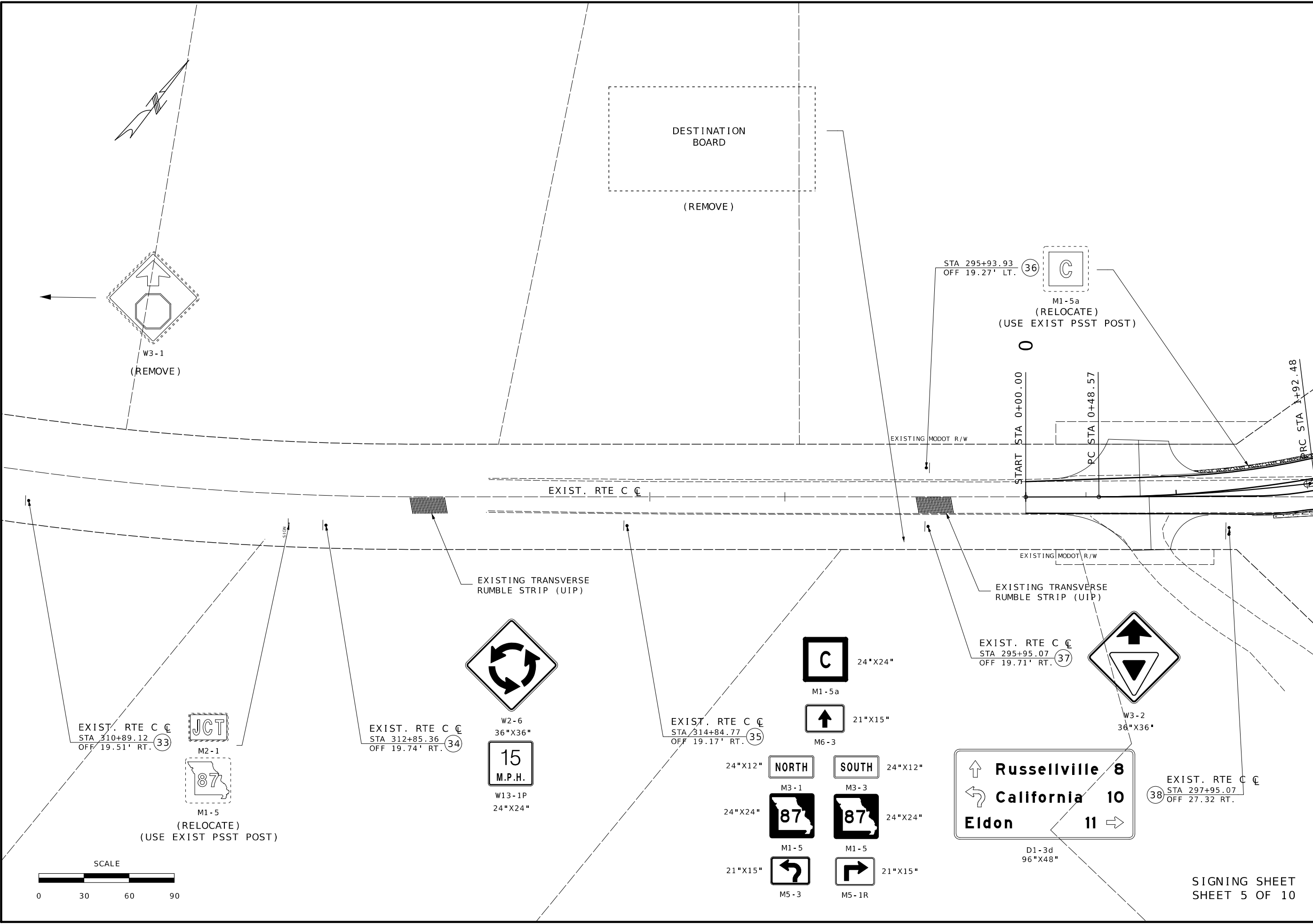
CONTRACT ID.

PROJECT NO.

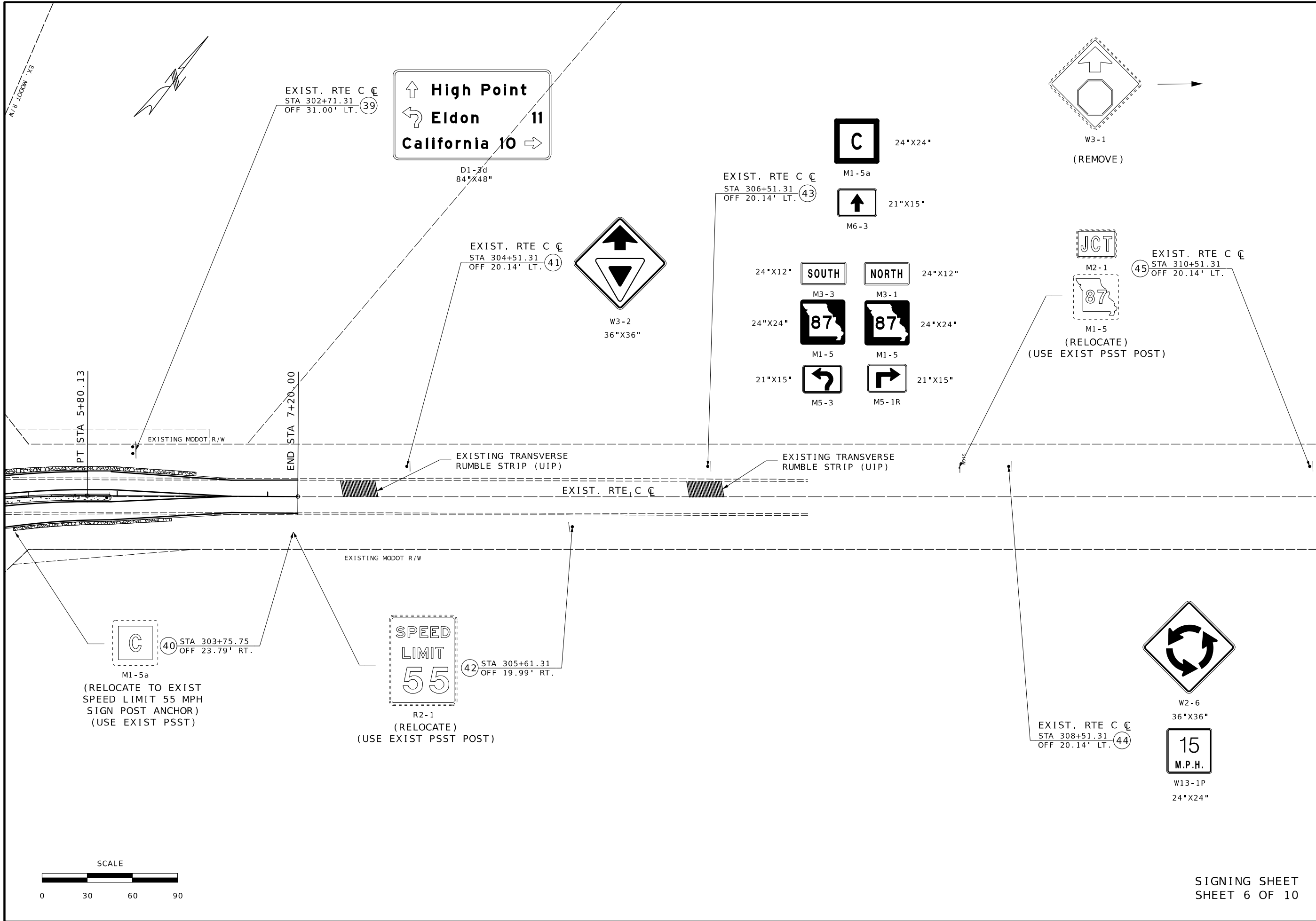
BRIDGE NO.

DESCRIPTION	DATE

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



SIGNING SHEET  
SHEET 5 OF 10



11/05/2024 10:02:54 AM  
 GREGORY G. LEARY - CIVIL  
 MO-PE-026654  
 DATE PREPARED

11/5/2024

ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 50

COUNTY  
MONITEAU

JOB NO.  
JCD0113

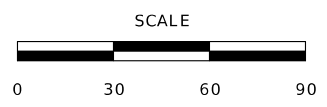
CONTRACT ID.

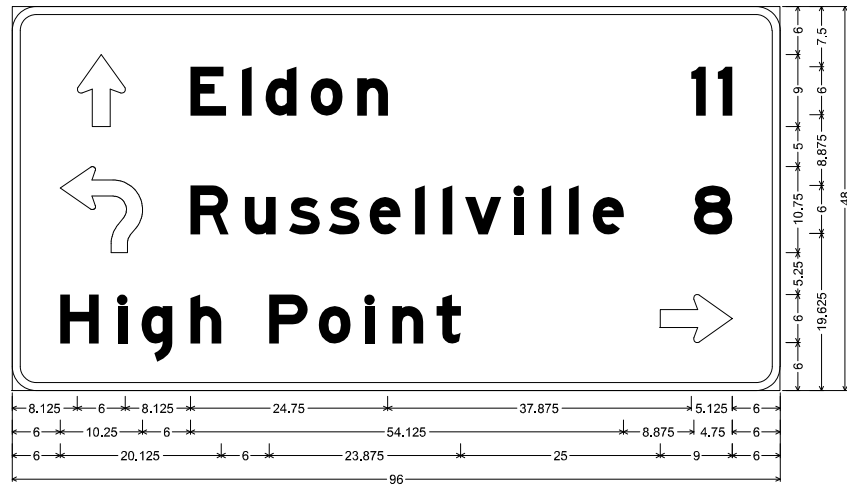
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

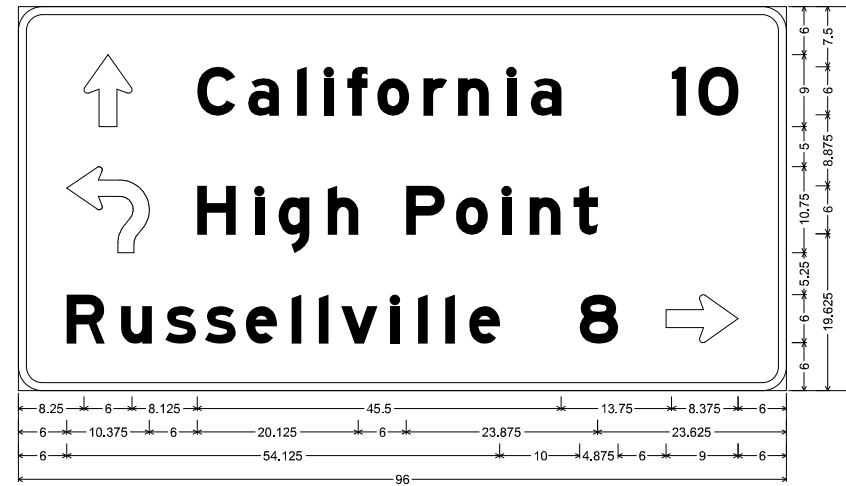




D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "Eldon", E Mod; "11", E Mod; "Russellville", E Mod; "8", E Mod;  
 "High Point", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

8.125	E	22.250	28.750	d	31.625	37.375	43.125	48.875	54.625	60.375	66.125	71.875	77.625	83.375	89.125	94.875	100.625
6.000	R	22.250	29.125	s	34.625	39.625	44.625	49.625	54.625	59.625	64.625	69.625	74.625	79.625	84.625	89.625	94.625
6.000	H	13.250	16.125	g	22.250	32.125	38.375	44.125	47.500	53.000	58.000	63.000	68.000	73.000	78.000	83.000	88.000

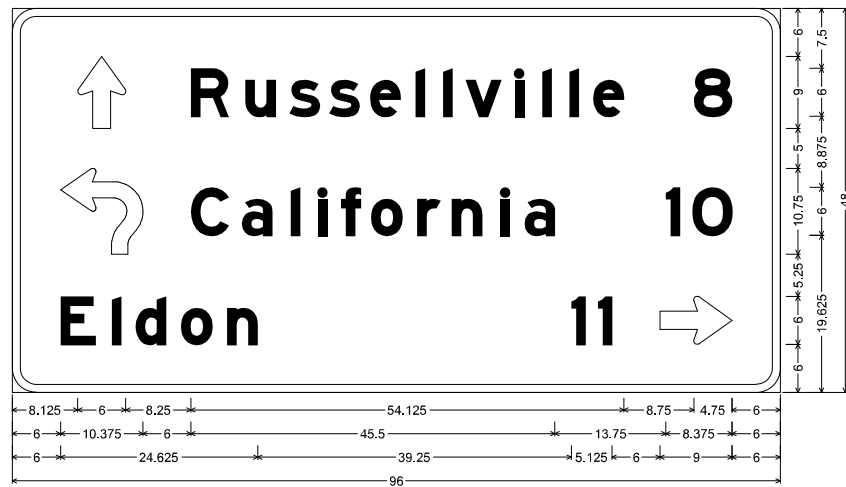
SIGN 26



D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "California", E Mod; "10", E Mod; "High Point", E Mod;  
 "Russellville", E Mod; "8", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

8.250	C	22.375	28.750	34.875	41.125	47.375	53.625	59.875	66.125	72.375	78.625	84.875	91.125	97.375	103.625	109.875	116.125
6.000	H	22.375	29.625	32.500	38.625	48.500	54.750	60.500	63.875	69.375	74.875	80.375	85.875	91.375	96.875	102.375	107.875
6.000	R	12.875	18.375	23.375	28.375	34.125	37.625	40.375	46.500	50.000	53.375	56.375	60.125	63.625	67.125	70.625	74.125

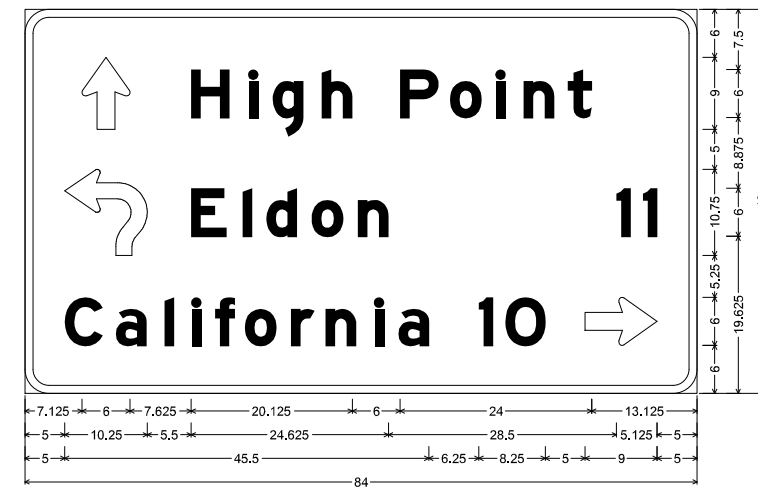
SIGN 27



D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "Russellville", E Mod; "8", E Mod; "California", E Mod; "10", E Mod;  
 "Eldon", E Mod; "11", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

8.125	R	22.375	29.125	s	34.625	39.625	44.750	50.375	53.875	56.625	62.750	66.250	69.625	72.625	75.625	78.625	81.625
6.000	C	22.375	28.750	34.750	38.250	41.125	44.875	50.625	55.000	61.125	64.000	68.625	73.875	77.250	80.625	84.000	87.375
6.000	E	12.500	15.375	d	21.125	26.875	29.875	33.250	36.000	39.000	42.000	45.000	48.000	51.000	54.000	57.000	60.000

SIGN 38



D1-3d ST-STRUCTURAL;  
 3.000" Radius, 1.000" Border, White on, Green;  
 Standard Arrow Custom 9.000" X 6.000" 90"; "High Point", E Mod; "Eldon", E Mod; "11", E Mod;  
 "California", E Mod; "10", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";  
 Table of letter and object lefts

7.125	H	20.750	28.000	g	31.000	37.125	46.875	53.125	58.875	62.375	67.875	73.375	78.875	84.375	89.875	95.375	100.875
5.000	E	20.750	27.250	d	30.125	35.875	41.625	47.375	53.125	58.875	64.625	70.375	76.125	81.875	87.625	93.375	99.125
5.000	C	11.375	17.500	20.875	23.750	27.500	33.250	37.625	43.750	46.625	56.750	60.000	69.000	72.000	81.000	84.000	93.000

SIGN 39

STATE OF MISSOURI  
 GREGORY & LEARY  
 NUMBER PE-028654  
 PROFESSIONAL ENGINEER

*Gregory D. Leary*  
 11/06/2024 10:02:41 AM  
 GREGORY & LEARY - CIVIL  
 MO-PE-028654

DATE PREPARED		11/5/2024	
ROUTE	87	STATE	MO
DISTRICT	CD	SHEET NO.	51
COUNTY			
MONITEAU			
JOB NO.			
JCD0113			
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)





STANDARD SIGN ASSEMBLIES

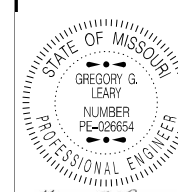
Table with columns: SIGN NO, STATION, OFFSET, LOCATION, and 17 sign types (SH, SHF, SH). Rows 1-44 list specific sign placements with quantities.

TOTAL

SIGN SUMMARY

Summary table with columns: STANDARD SIGN OR SPECIAL SIGN NUMBER, SIGN DETAIL SHEET NO., QTY., SIZE (IN.), FLAT SHEET SH ITEM NO., FLAT SHEET FLUORESCENT SHF ITEM NO., STRUCTURAL STEEL ITEM NO.

SIGNING SHEET SHEET 9 OF 10



11/06/2024 10:05:43 AM GREGORY G. LEARY - CIVIL JAY C. REPPENHAGEN

ROUTE 87 STATE MO DISTRICT CD SHEET NO. 53

COUNTY MONITEAU JOB NO. JCD0113 CONTRACT ID.

Table with columns: DESCRIPTION, DATE. Rows 1-17 for project details.

BRIDGE NO.

Missouri Highways and Transportation Commission logo and address: 105 WEST CAPITOL JEFFERSON CITY, MO 65102



11/06/2024 10:05:54 AM  
GREGORY G. LEARY - CIVIL  
MO-PE-026654  
DATE PREPARED

11/6/2024

ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 54

COUNTY MONITEAU  
JOB NO. JCD0113  
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

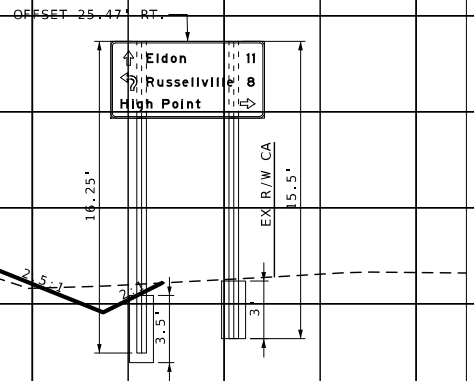
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

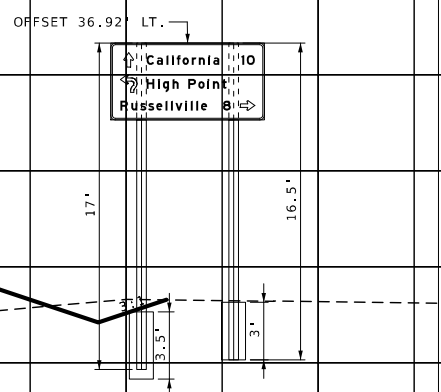


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

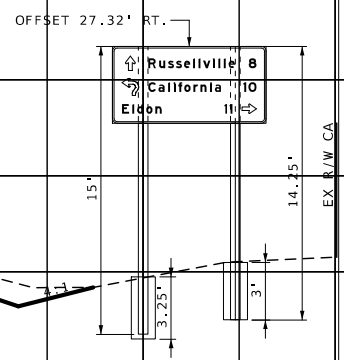
(26)  
STA 526+22.49  
EX. RT. 87 C  
1 - 8'x4' SIGN  
2 - DES. NO. 1 W6X9 POSTS



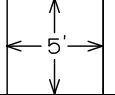
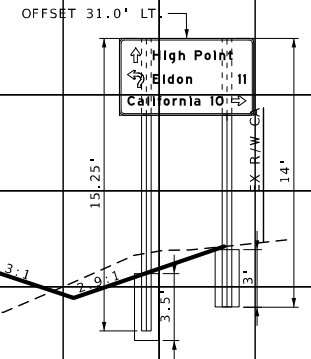
(27)  
STA 530+11.12  
EX. RT. 87 C  
1 - 8'x4' SIGN  
2 - DES. NO. 1 W6X9 POSTS



(38)  
STA 297+95.07  
EX. RT. C C  
1 - 8'x4' SIGN  
2 - DES. NO. 1 W6X9 POSTS



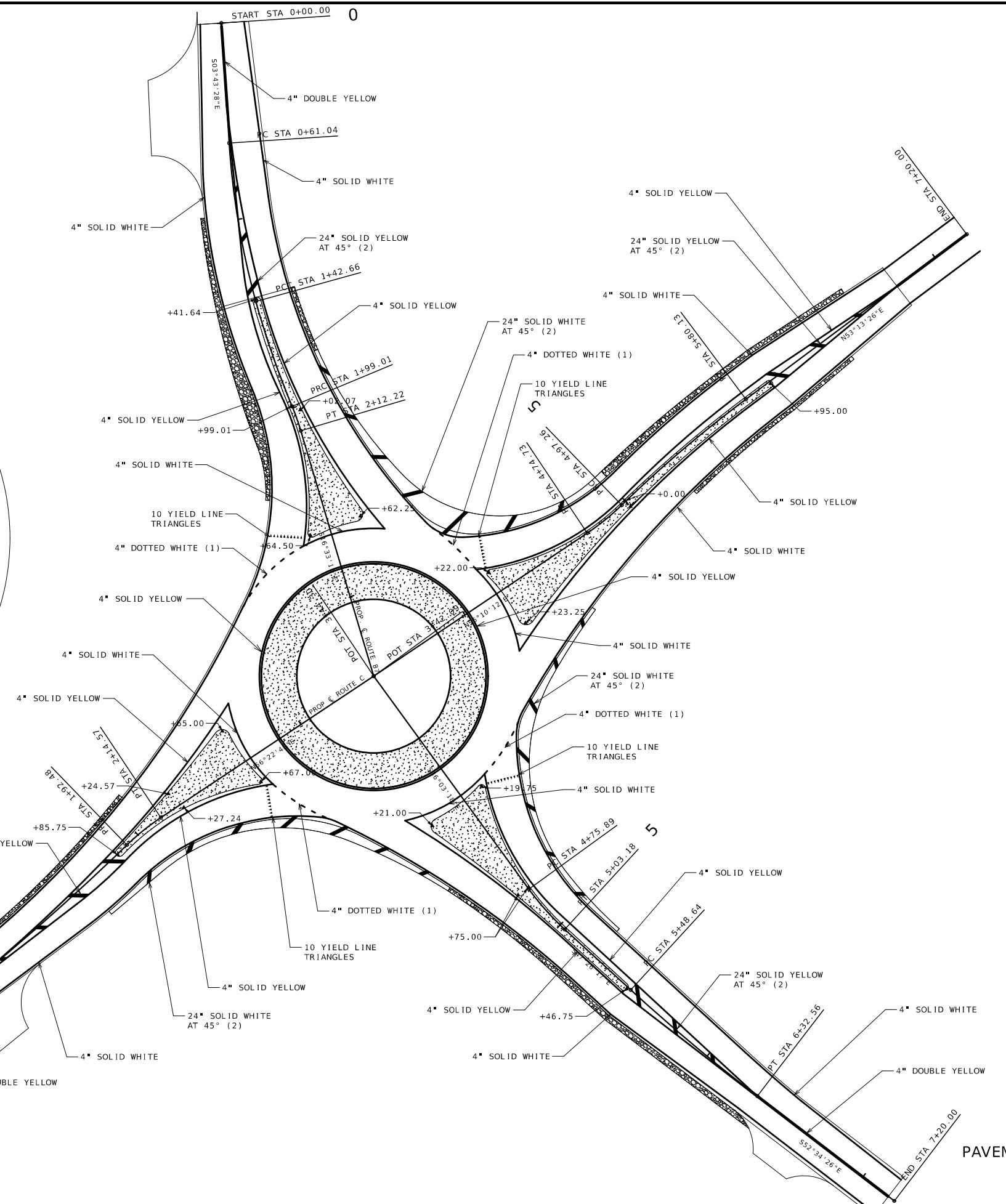
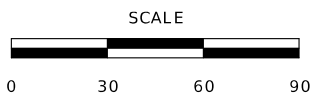
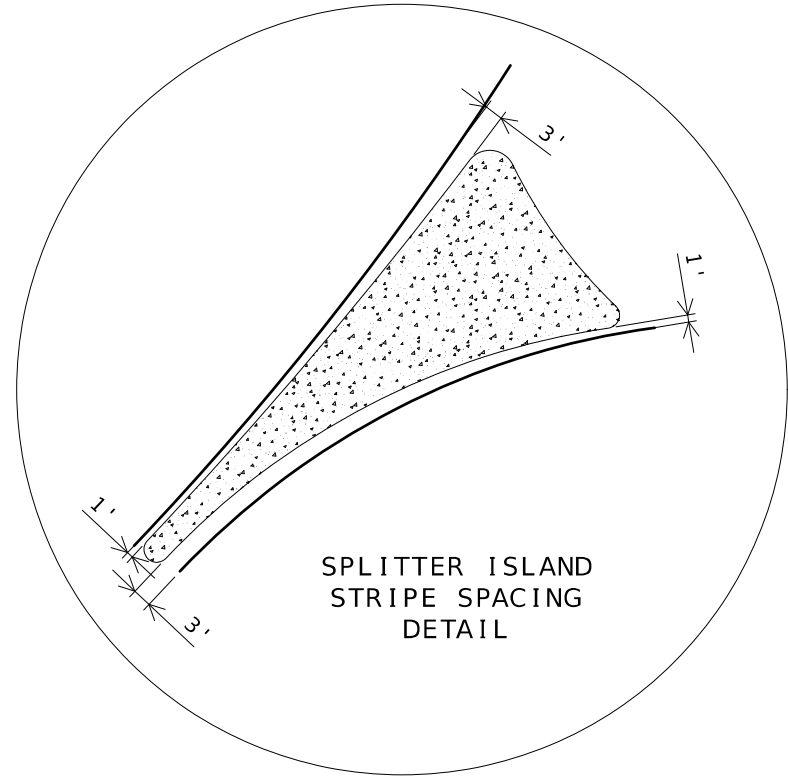
(39)  
STA 302+71.31  
EX. RT. C C  
1 - 7'x4' SIGN  
2 - DES. NO. 1 W6X9 POSTS



NOTE:

- (1) DOTTED PAVEMENT MARKING WITHIN ROUNDABOUT SHALL BE 2' STRIPE WITH 4' GAP
- (2) 24" SOLID 45° HASH MARKERS SHALL BE PLACED AT 25' SPACING AND USE THERMOPLASTIC PAVEMENT MARKING

▲ 36 IN. SURFACE MOUNT DELINEATOR POST



DATE PREPARED  
11/05/2024 10:10:44 AM  
GREGORY G. LEARY - CNIL  
MO-PE-206654

DATE PREPARED 11/5/2024	
ROUTE 87	STATE MO
DISTRICT CD	SHEET NO. 55
COUNTY MONITEAU	
JOB NO. JCD0113	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING SHEET  
SHEET 1 OF 1



11/06/2024 10:03:01 AM  
GREGORY G. LEARY - CIVIL  
MO PE-026654  
DATE PREPARED

11/5/2024  
ROUTE 87 STATE MO  
DISTRICT CD SHEET NO. 56  
COUNTY MONITEAU  
JOB NO. JCD0113  
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)

