

DESIGN DESIGNATION

A.A.D.T. - 2026 = 2945
A.A.D.T. - 2046 = 3590
D.H.V. = 9%
T = 17%
V = 25-60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

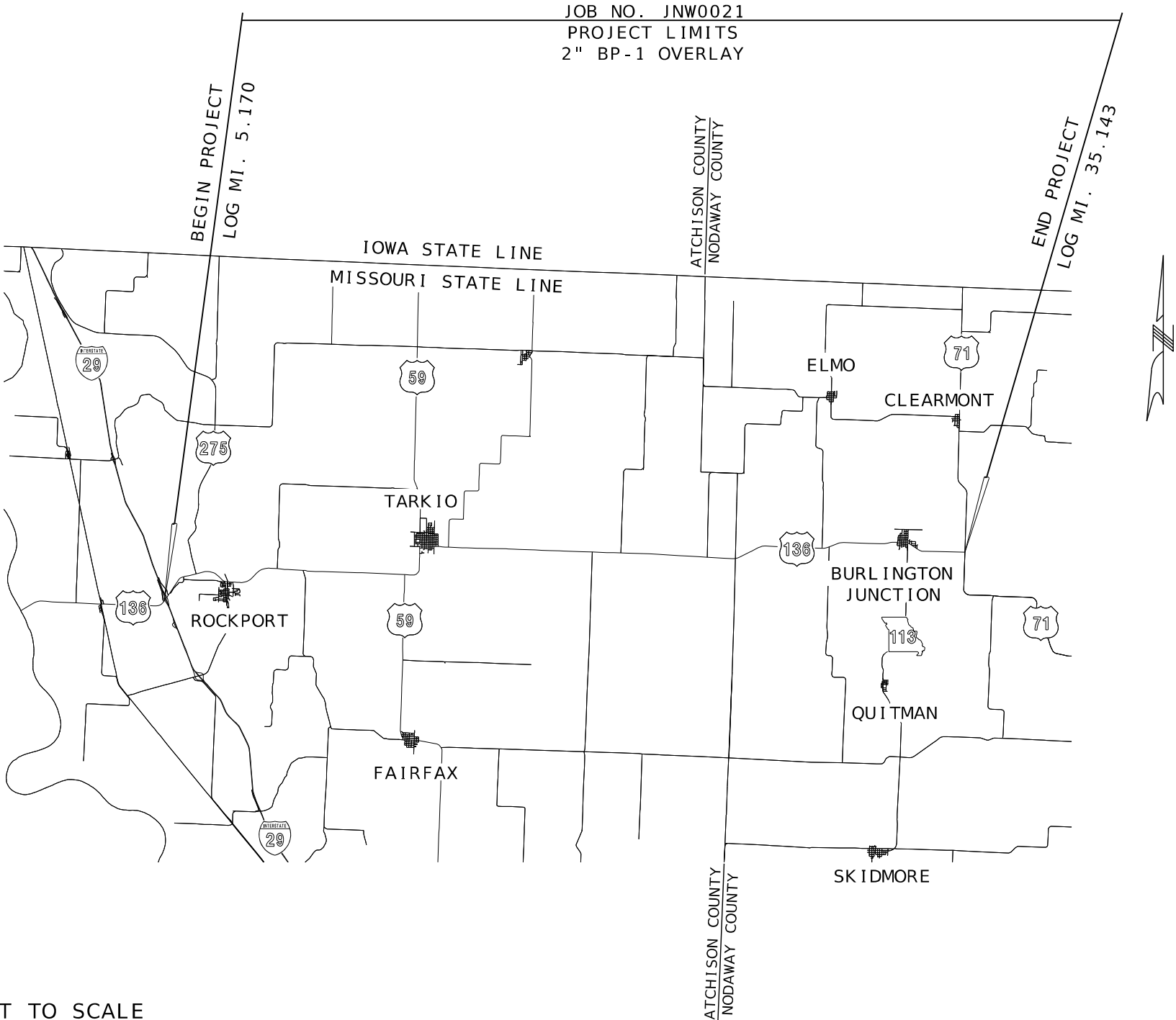
NO RIGHT OF WAY TO BE ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ATCHISON & NODAWAY COUNTIES



NOT TO SCALE

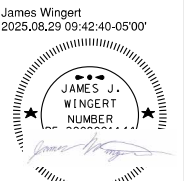
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
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QUANTITIES (QU) (8 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-12
TRAFFIC CONTROL SHEETS (TC)-----	13
BRIDGE DRAWINGS (B)	
B00081-----	1-2

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 5.170
END OF PROJECT	LOG MILE 35.143
APPARENT LENGTH	158257.44 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A2379 LOG MILE 5.247 LOG MILE 5.308	322.08 FEET
BRIDGE A2545 LOG MILE 8.115 LOG MILE 8.136	110.88 FEET
BRIDGE B0008 LOG MILE 11.871 LOG MILE 11.900	153.12 FEET
BRIDGE A4660 LOG MILE 16.646 LOG MILE 16.724	411.84 FEET
BRIDGE A4786 LOG MILE 16.920 LOG MILE 16.986	348.48 FEET
BRIDGE A4661 LOG MILE 17.109 LOG MILE 17.194	448.90 FEET
BRIDGE A7934 LOG MILE 23.212 LOG MILE 23.234	116.16 FEET
BRIDGE A8449 LOG MILE 26.578 LOG MILE 26.606	147.84 FEET
BRIDGE A4570 LOG MILE 31.140 LOG MILE 31.198	306.24 FEET
BRIDGE A4571 LOG MILE 31.624 LOG MILE 31.708	443.52 FEET
TOTAL CORRECTIONS	2809.06 FEET
NET LENGTH OF PROJECT	155448.38 FEET
STATE LENGTH	29.441 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES



JAMES J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NW	1

COUNTY

ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

- NOTES:
1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
 2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
 3. EXISTING TYPICALS ARE FOR INFORMATION ONLY. PAVEMENT LAYERS MAY VARY FROM TYPICALS.
 4. LOG MILE LOCATIONS APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.

BRIDGE EXCEPTION (A2379)
LOG MILE 5.247 TO LOG MILE 5.308

BRIDGE EXCEPTION (A2545)
LOG MILE 8.115 TO LOG MILE 8.136

BRIDGE EXCEPTION (B0008)
LOG MILE 11.871 TO LOG MILE 11.900

BRIDGE EXCEPTION (A4660)
LOG MILE 16.646 TO LOG MILE 16.724

BRIDGE EXCEPTION (A4786)
LOG MILE 16.920 TO LOG MILE 16.986

BRIDGE EXCEPTION (A4661)
LOG MILE 17.109 TO LOG MILE 17.194

BRIDGE EXCEPTION (A7934)
LOG MILE 23.212 TO LOG MILE 23.234

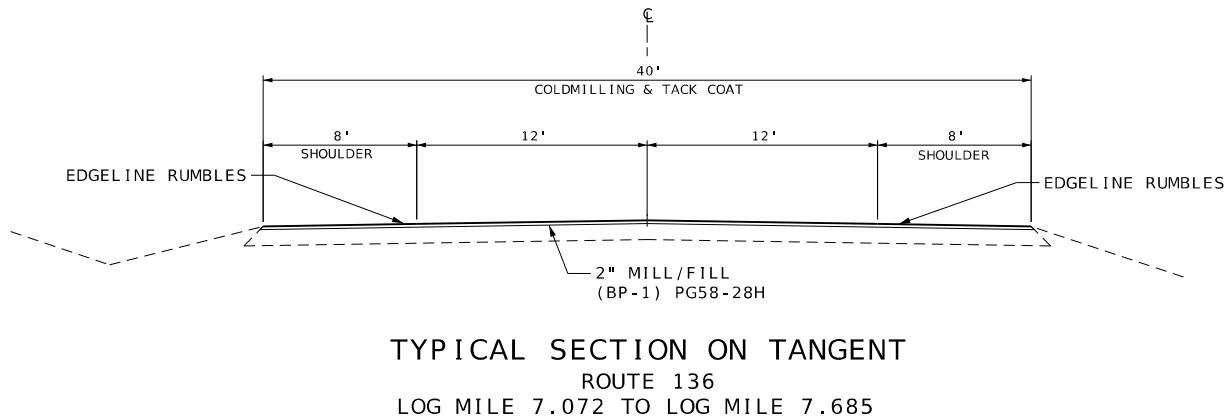
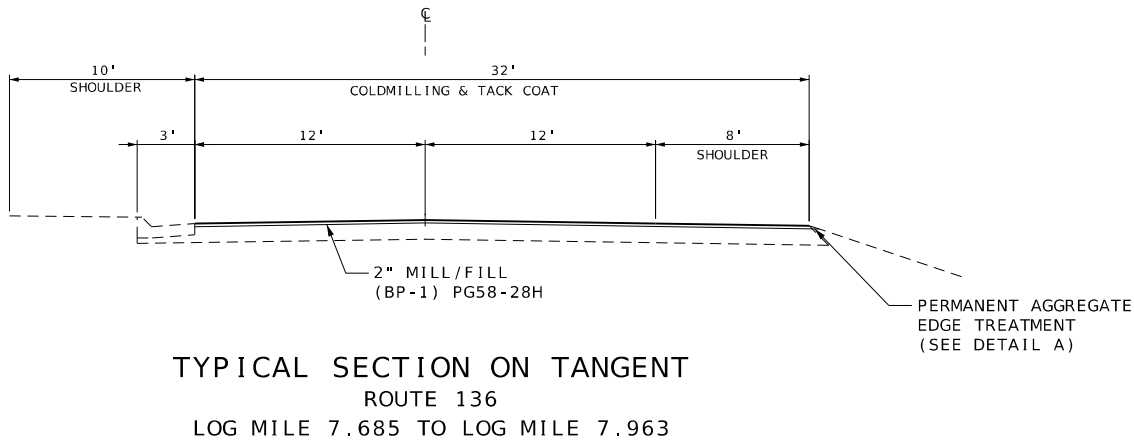
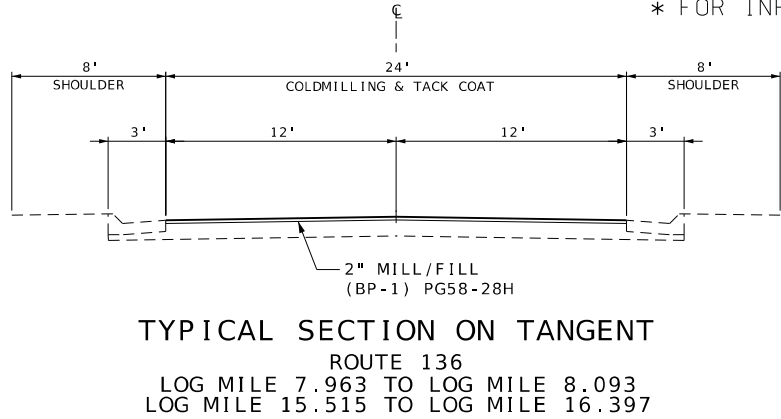
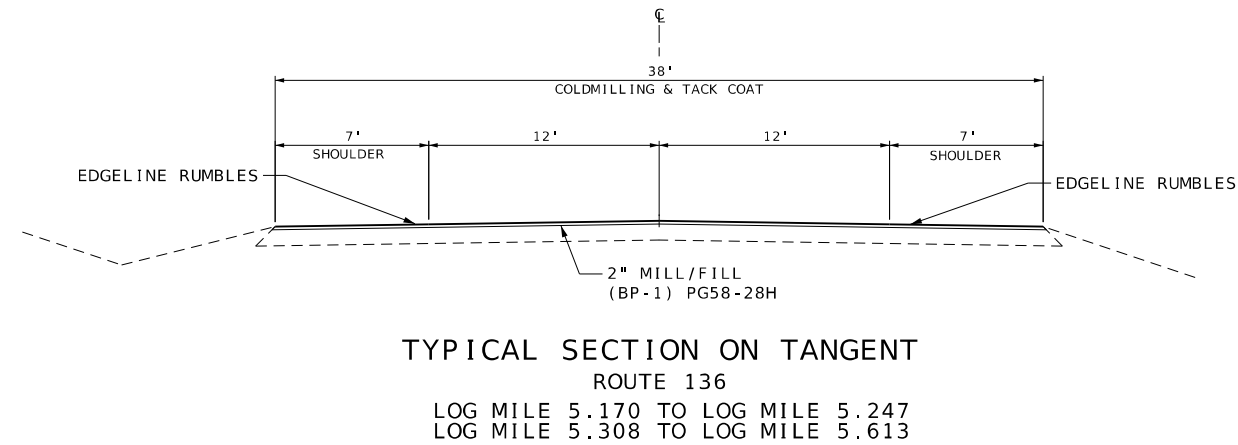
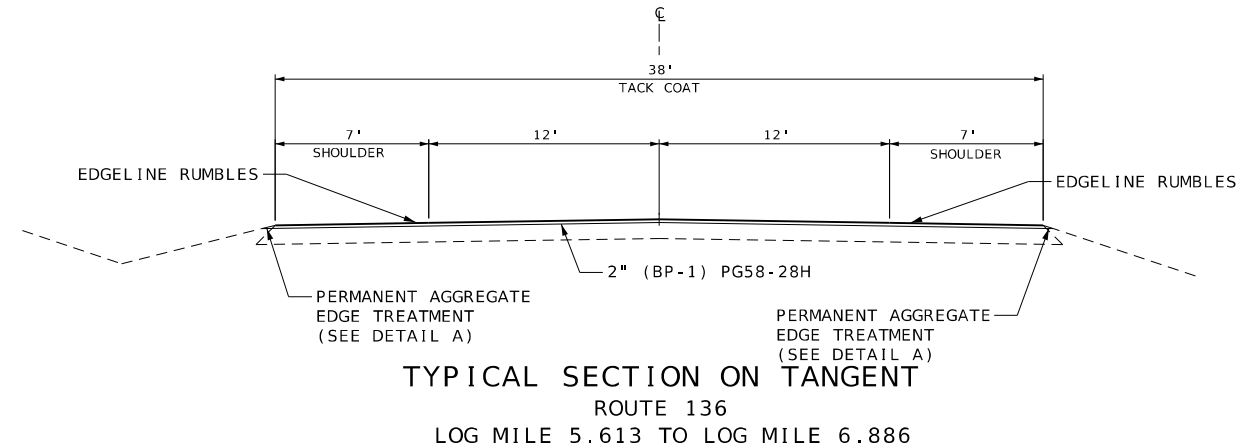
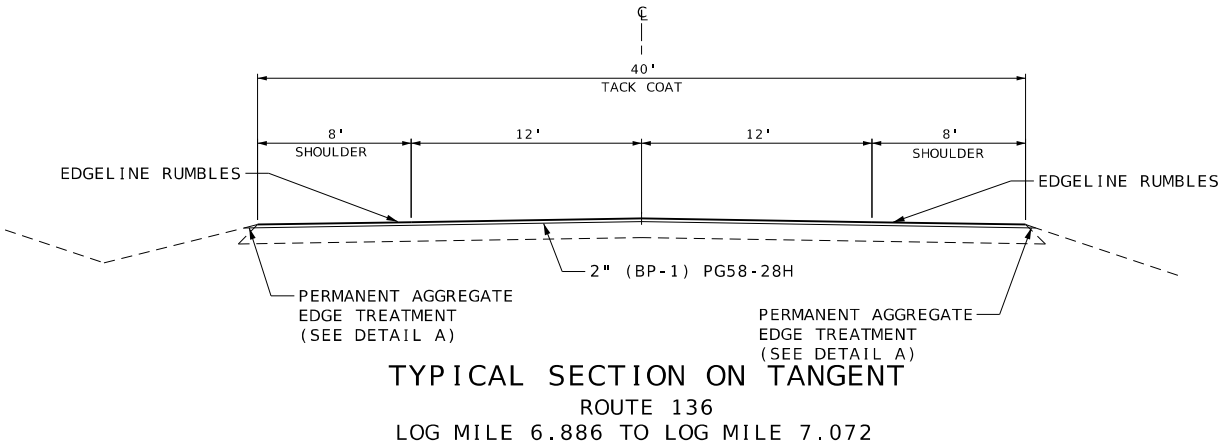
BRIDGE EXCEPTION (A8449)
LOG MILE 26.578 TO LOG MILE 26.606

BRIDGE EXCEPTION (A4570)
LOG MILE 31.140 TO LOG MILE 31.198

BRIDGE EXCEPTION (A4571)
LOG MILE 31.624 TO LOG MILE 31.708

ESTIMATE FACTORS*	
MATERIAL	TONS/C.Y.
2" BP-1 PG58-28H	1.960
IRREGULARITIES 16 TON/MILE	
MILLING TRANSITION 1" PER 50'	
TACK COAT APPLICATION RATE	
0.10 GAL/YD' (UNDILUTED)	
PERMANENT AGGREGATE EDGE TREATMENT	
1.40 TON/CY	

* FOR INFORMATION PURPOSES ONLY



DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

DETAILS A, B, & C ARE SHOWN
ON TYPICAL SHEET 4 OF 4

ROUTE 136
TYPICAL SHEET
1 OF 4

James Wingert
2025.09.04 14:18:04-05'00"

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
136

DISTRICT
NW

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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BRIDGE EXCEPTION (A2379)
LOG MILE 5.247 TO LOG MILE 5.308

BRIDGE EXCEPTION (A2545)
LOG MILE 8.115 TO LOG MILE 8.136

BRIDGE EXCEPTION (B0008)
LOG MILE 11.871 TO LOG MILE 11.900

BRIDGE EXCEPTION (A4660)
LOG MILE 16.646 TO LOG MILE 16.724

BRIDGE EXCEPTION (A4786)
LOG MILE 16.920 TO LOG MILE 16.986

BRIDGE EXCEPTION (A4661)
LOG MILE 17.109 TO LOG MILE 17.194

BRIDGE EXCEPTION (A7934)
LOG MILE 23.212 TO LOG MILE 23.234

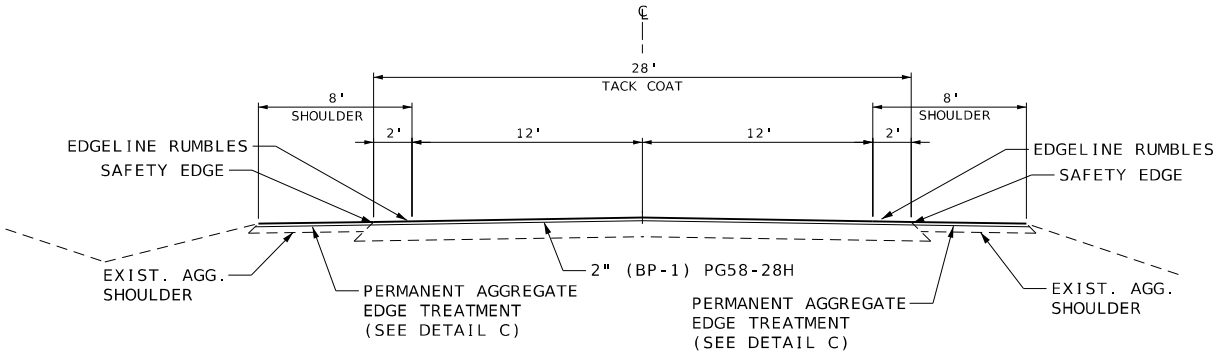
BRIDGE EXCEPTION (A8449)
LOG MILE 26.578 TO LOG MILE 26.606

BRIDGE EXCEPTION (A4570)
LOG MILE 31.140 TO LOG MILE 31.198

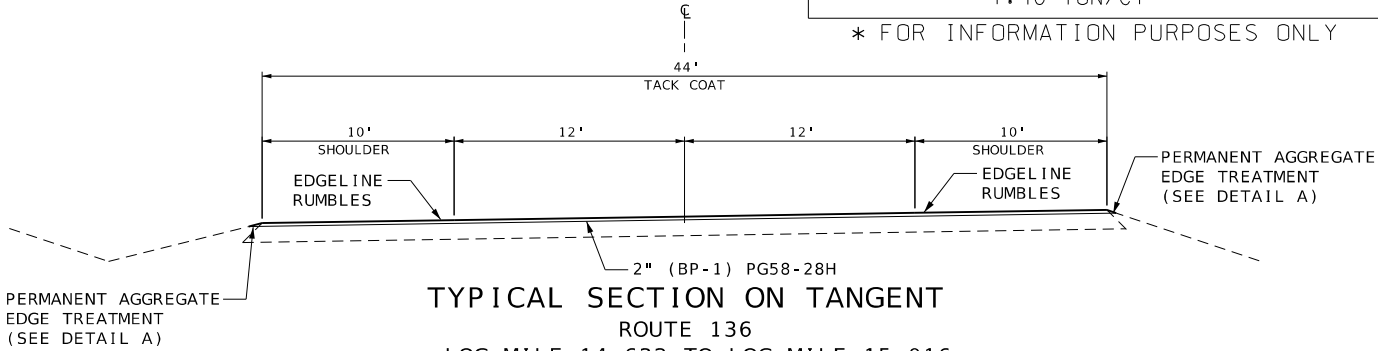
BRIDGE EXCEPTION (A4571)
LOG MILE 31.624 TO LOG MILE 31.708

ESTIMATE FACTORS*	
MATERIAL	TONS/C.Y.
2" BP-1 PG58-28H	1.960
IRREGULARITIES 16 TON/MILE	
MILLING TRANSITION 1" PER 50'	
TACK COAT APPLICATION RATE	
0.10 GAL/YD' (UNDILUTED)	
PERMANENT AGGREGATE EDGE TREATMENT	
1.40 TON/CY	

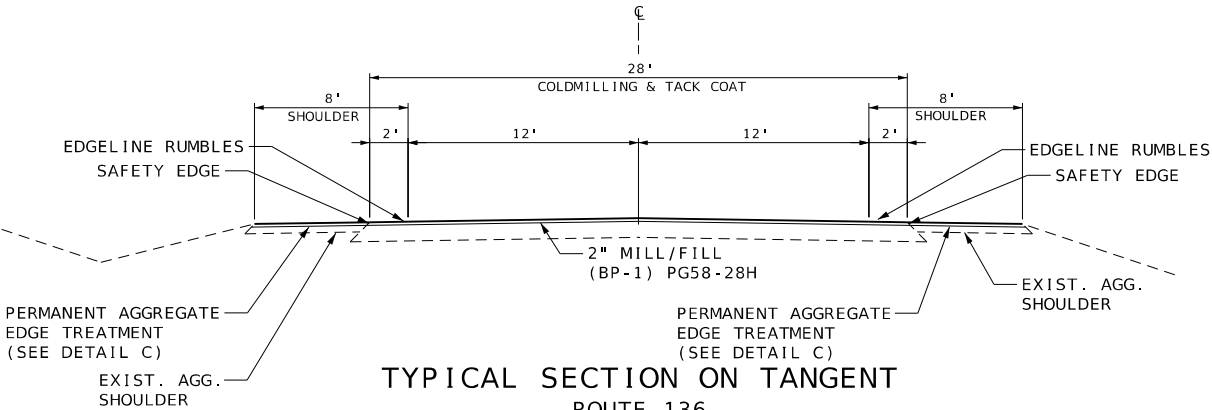
* FOR INFORMATION PURPOSES ONLY



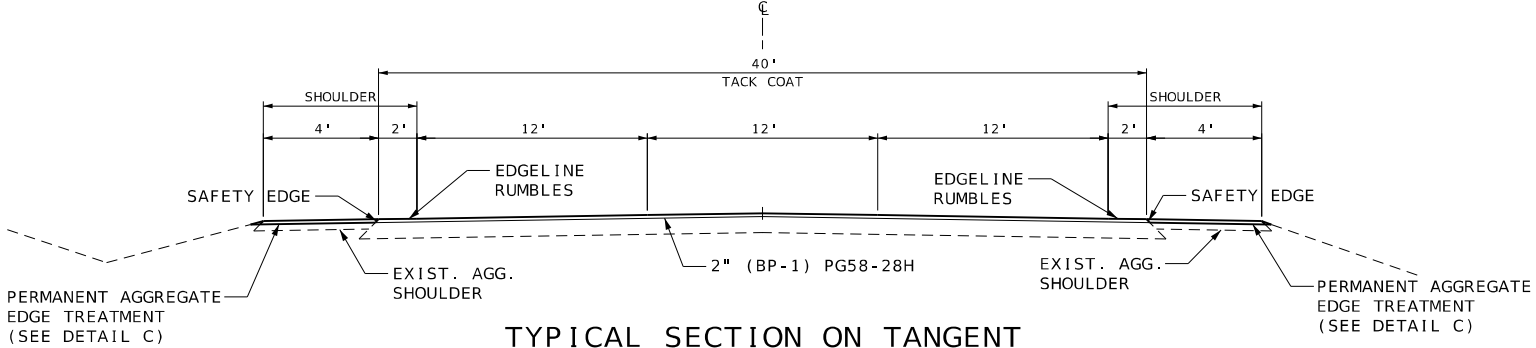
TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 8.480 TO LOG MILE 10.213



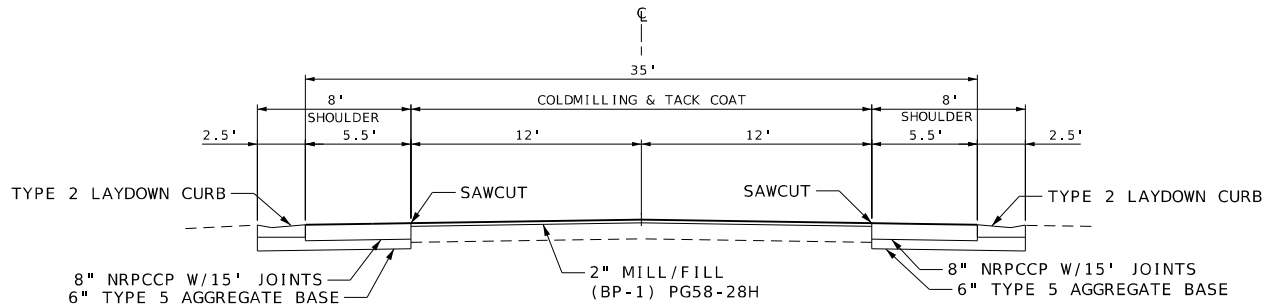
TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 14.622 TO LOG MILE 15.016



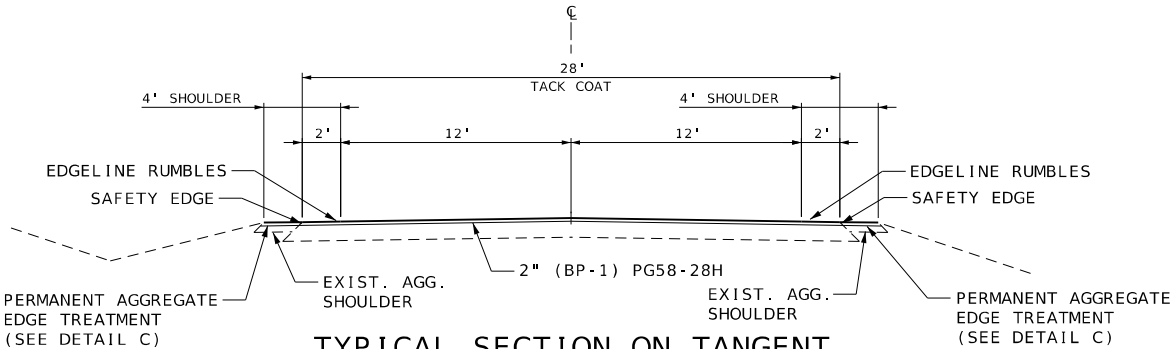
TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 8.136 TO LOG MILE 8.480



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 14.270 TO LOG MILE 14.496



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 8.093 TO LOG MILE 8.115



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 10.213 TO LOG MILE 14.270
LOG MILE 14.496 TO LOG MILE 14.622
LOG MILE 15.016 TO LOG MILE 15.267
LOG MILE 23.234 TO LOG MILE 30.323
LOG MILE 32.212 TO LOG MILE 32.768
LOG MILE 33.799 TO LOG MILE 35.143

DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

DETAILS A, B, & C ARE SHOWN
ON TYPICAL SHEET 4 OF 4

ROUTE 136
TYPICAL SHEET
2 OF 4

James Wingert
2025.09.04 14:20:42-05'00'

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
136

DISTRICT
NW

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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      BRIDGE EXCEPTION (A2379)
LOG MILE 5.247 TO LOG MILE 5.308

      BRIDGE EXCEPTION (A2545)
LOG MILE 8.115 TO LOG MILE 8.136

      BRIDGE EXCEPTION (B0008)
LOG MILE 11.871 TO LOG MILE 11.900

      BRIDGE EXCEPTION (A4660)
LOG MILE 16.646 TO LOG MILE 16.724

      BRIDGE EXCEPTION (A4786)
LOG MILE 16.920 TO LOG MILE 16.986

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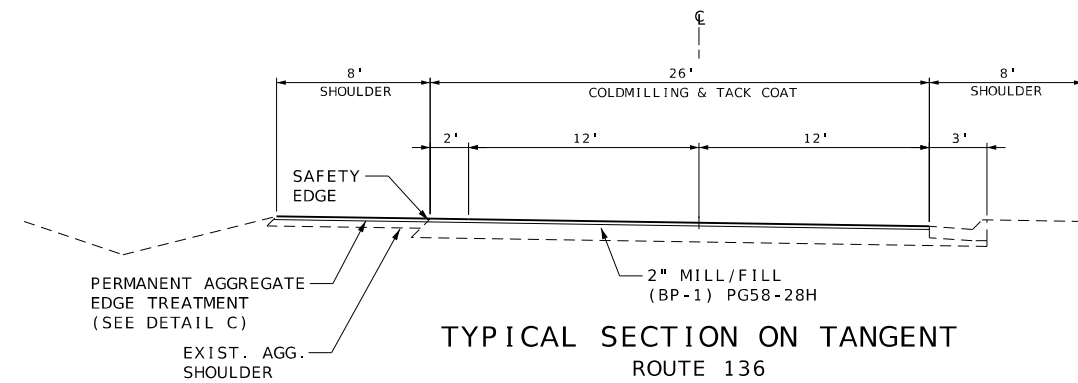
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BRIDGE EXCEPTION (A4661)
LOG MILE 17.109 TO LOG MILE 17.194
BRIDGE EXCEPTION (A7934)
LOG MILE 23.212 TO LOG MILE 23.234
BRIDGE EXCEPTION (A8449)
LOG MILE 26.578 TO LOG MILE 26.606
BRIDGE EXCEPTION (A4570)
LOG MILE 31.140 TO LOG MILE 31.198
BRIDGE EXCEPTION (A4571)
LOG MILE 31.624 TO LOG MILE 31.708

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ESTIMATE FACTORS*	
MATERIAL	TONS/C.Y.
2" BP-1 PG58-28H	1.960
IRREGULARITIES	16 TON/MILE
MILLING TRANSITION	1" PER 50'
TACK COAT APPLICATION RATE	
0.10 GAL/YD' (UNDILUTED)	
PERMANENT AGGREGATE EDGE TREATMENT	
1.40 TON/CY	

James Winger 2025.09.04 14:22:00-05'00'	
JAMES J. WINGER-ENGINEER MOR# PE-2009001144	
DATE PREPARED 9/4/2025	
ROUTE 136	STATE MO
DISTRICT NW	SHEET NO. 2
COUNTY ATCHISON & NOWADAY	
JOB NO. JNW0021	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



The diagram illustrates a typical cross-section of a road on a tangent. The central portion is a 28-foot wide 'COLDMILLING & TACK COAT' area. This is flanked by 4-foot 'SHOULDER' areas on both sides. Within the shoulders, there are 2-foot wide 'SAFETY EDGE' zones. The total width of the paved area is 36 feet. The road is flanked by 'PERMANENT AGGREGATE EDGE TREATMENT (SEE DETAIL C)'. The diagram also shows 'EDGELINE RUMBLER' strips at the edges of the pavement. The road is identified as 'ROUTE 136' and is located between 'LOG MILE 15.267 TO LOG MILE 15.515'. The diagram is labeled 'TYPICAL SECTION ON TANGENT'.

4' SHOULDER

2'

12'

12'

2'

4' SHOULDER

28'

COLDMILLING & TACK COAT

EDGELINE RUMBLER

SAFETY EDGE

PERMANENT AGGREGATE
EDGE TREATMENT
(SEE DETAIL C)

EXIST. AGG.
SHOULDER

2" MILL/FILL
(BP-1) PG58-28H

EXIST. AGG.
SHOULDER

EDGELINE RUMBLER

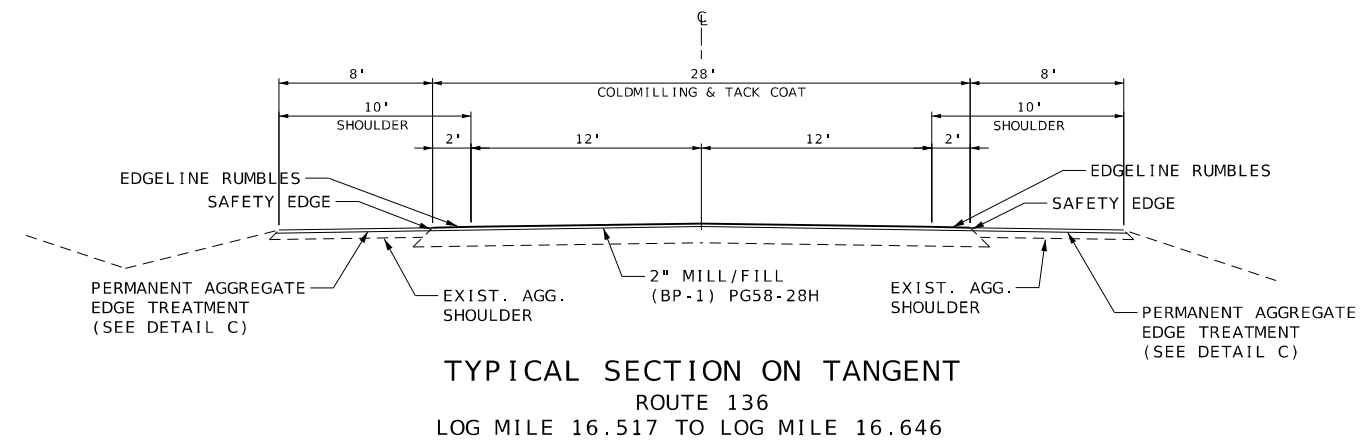
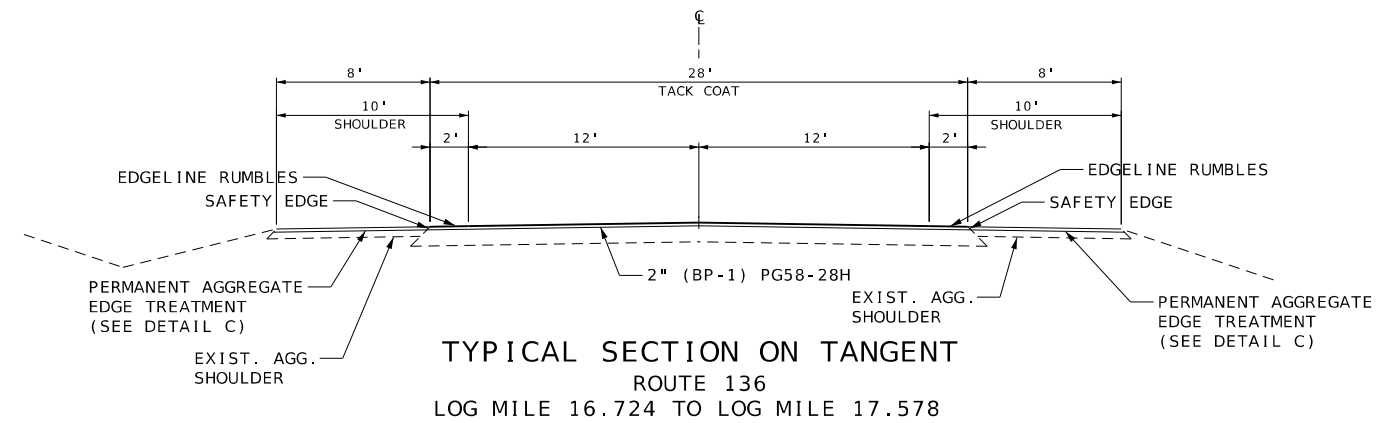
SAFETY EDGE

PERMANENT AGGREGATE
EDGE TREATMENT
(SEE DETAIL C)

TYPICAL SECTION ON TANGENT

ROUTE 136

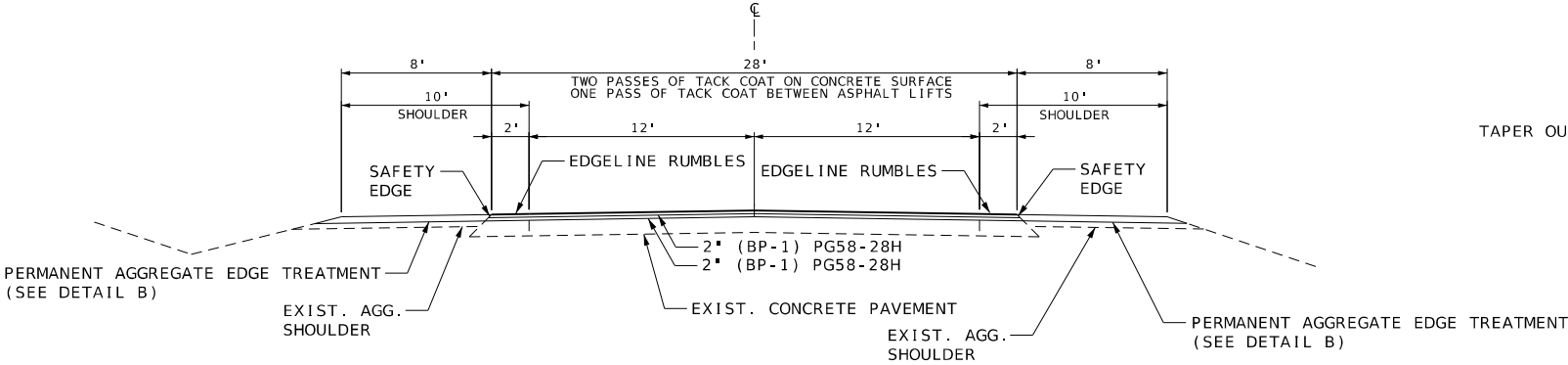
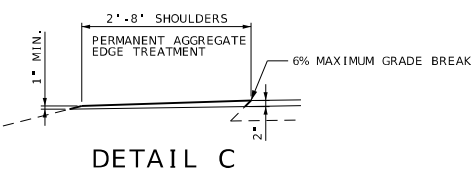
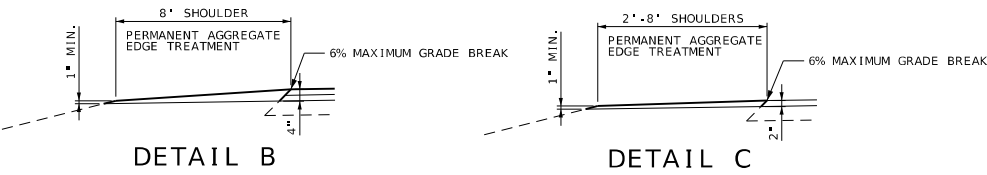
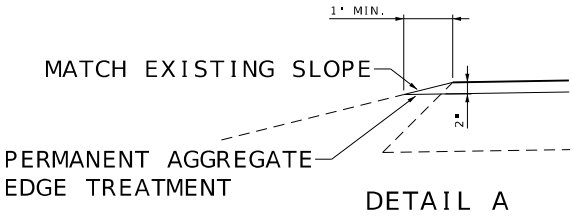
LOG MILE 15.267 TO LOG MILE 15.515



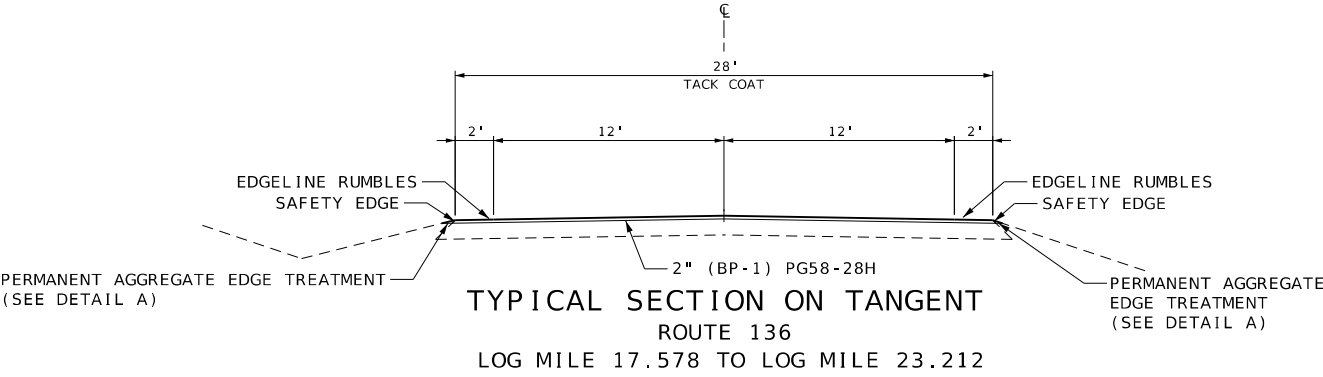
ROUTE 136
TYPICAL SHEET
3 OF 4

 1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116 PHONE: 816.361.1177 CERTIFICATE OF AUTHORITY NO. 001592	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		DATE	DESCRIPTION
	 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275.6636)			
IF A SEAL IS PRESENT				

- NOTES:
- 1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
 - 2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
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TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 30.323 TO LOG MILE 32.212



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 17.578 TO LOG MILE 23.212

BRIDGE EXCEPTION (A2379)
LOG MILE 5.247 TO LOG MILE 5.308

BRIDGE EXCEPTION (A2545)
LOG MILE 8.115 TO LOG MILE 8.136

BRIDGE EXCEPTION (B0008)
LOG MILE 11.871 TO LOG MILE 11.900

BRIDGE EXCEPTION (A4660)
LOG MILE 16.646 TO LOG MILE 16.724

BRIDGE EXCEPTION (A4786)
LOG MILE 16.920 TO LOG MILE 16.986

BRIDGE EXCEPTION (A4661)
LOG MILE 17.109 TO LOG MILE 17.194

BRIDGE EXCEPTION (A7934)
LOG MILE 23.212 TO LOG MILE 23.234

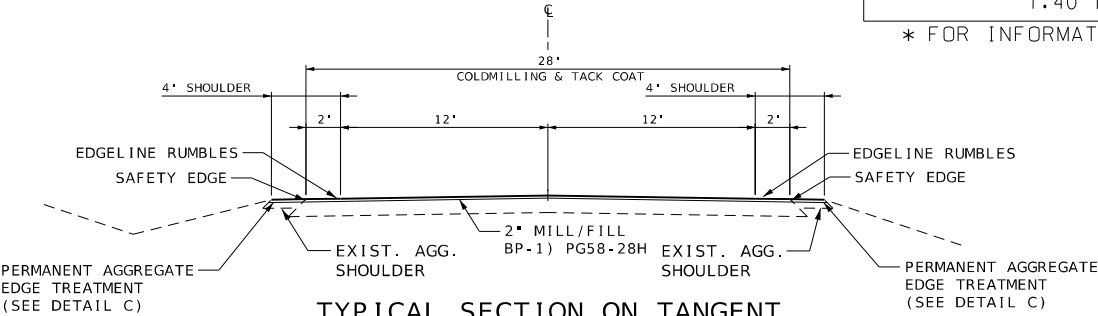
BRIDGE EXCEPTION (A8449)
LOG MILE 26.578 TO LOG MILE 26.606

BRIDGE EXCEPTION (A4570)
LOG MILE 31.140 TO LOG MILE 31.198

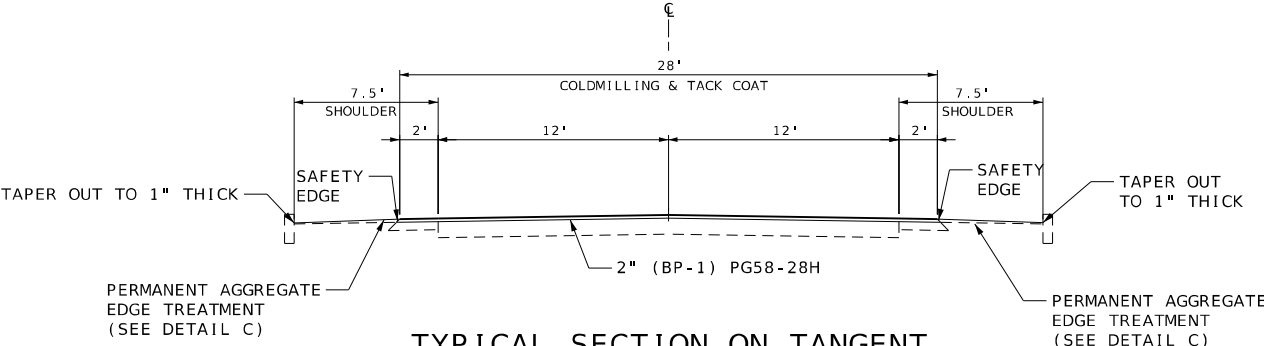
BRIDGE EXCEPTION (A4571)
LOG MILE 31.624 TO LOG MILE 31.708

ESTIMATE FACTORS*	
MATERIAL	TONS/C.Y.
2" BP-1 PG58-28H	1.960
IRREGULARITIES 16 TON/MILE	
MILLING TRANSITION 1" PER 50'	
TACK COAT APPLICATION RATE	
0.10 GAL/YD' (UNDILUTED)	
PERMANENT AGGREGATE EDGE TREATMENT	
1.40 TON/CY	

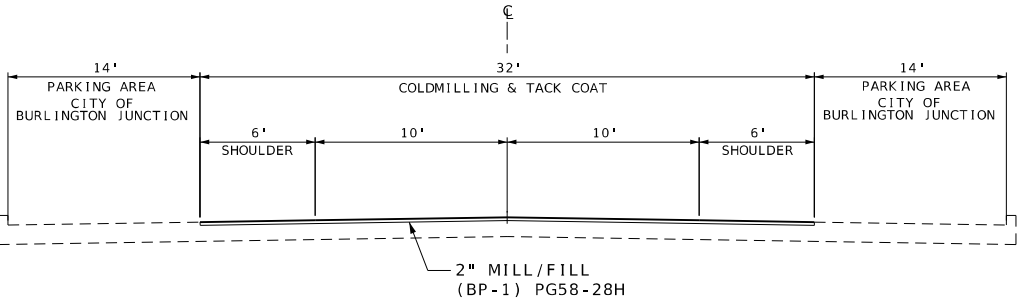
* FOR INFORMATION PURPOSES ONLY



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 33.056 TO LOG MILE 33.799



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 32.953 TO LOG MILE 33.056



TYPICAL SECTION ON TANGENT
ROUTE 136
LOG MILE 32.776 TO LOG MILE 32.943 RIGHT
LOG MILE 32.776 TO LOG MILE 32.960 LEFT

DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

ROUTE 136
TYPICAL SHEET
4 OF 4

James Wingert
2025.09.04 14:19:03-05'00'

James J. Wingert-ENGINEER
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
136

DISTRICT
NW

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

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BRIDGE NO.

DESCRIPTION

DATE

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PHONE: 816.361.1177
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REMOVAL OF IMPROVEMENTS			
LOG MILE	LOG MILE	LOCATION	DESCRIPTION
5.678	5.792	ROUTE 136 RT	602' GUARDRAIL
5.729	5.792	ROUTE 136 LT	333' GUARDRAIL
5.865	5.971	ROUTE 136 RT	560' GUARDRAIL
5.889	5.982	ROUTE 136 LT	491' GUARDRAIL
6.048	6.162	ROUTE 136 RT	602' GUARDRAIL
6.150	6.289	ROUTE 136 LT	734' GUARDRAIL
6.342	6.447	ROUTE 136 RT	554' GUARDRAIL
6.352	6.450	ROUTE 136 LT	517' GUARDRAIL
8.095		ROUTE 136 RT	12' SAWCUT
8.095	8.115	ROUTE 136 RT	104' SAWCUT
8.095	8.098	ROUTE 136 RT	20 SY PAVED APPROACH
8.098	8.115	ROUTE 136 RT	88' CURB & GUTTER
8.098	8.115	ROUTE 136 RT	54 SY PAVEMENT
8.098	8.115	ROUTE 136 LT	90' GUARDRAIL
8.098	8.115	ROUTE 136 RT	90' GUARDRAIL
8.098		ROUTE 136 LT	10' SAWCUT
8.098	8.101	ROUTE 136 LT	17 SY PAVED APPROACH
8.098	8.115	ROUTE 136 LT	88' SAWCUT
8.101	8.115	ROUTE 136 LT	88' CURB & GUTTER
8.101	8.115	ROUTE 136 LT	54 SY PAVEMENT
8.105	8.106	ROUTE 136 LT	12' SAWCUT
8.105	8.106	ROUTE 136 RT	12' SAWCUT
8.106		ROUTE 136 LT	1-INLET TOP & GRATE
8.106		ROUTE 136 RT	1-INLET TOP & GRATE
8.115		ROUTE 136 RT	8' SAWCUT
8.115		ROUTE 136 LT	8' SAWCUT
8.136	8.151	ROUTE 136 LT	79' GUARDRAIL
8.136	8.151	ROUTE 136 RT	79' GUARDRAIL
11.830	11.871	ROUTE 136 LT	216' GUARDRAIL
11.800	11.871	ROUTE 136 RT	375' GUARDRAIL
11.900	11.921	ROUTE 136 LT	111' GUARDRAIL
11.900	11.940	ROUTE 136 RT	211' GUARDRAIL
16.282		ROUTE 136 LT	6' SAWCUT
16.282		ROUTE 136 RT	6' SAWCUT
16.282		ROUTE 136 LT	5' CURB & GUTTER
16.282		ROUTE 136 RT	5' CURB & GUTTER
16.629	16.646	ROUTE 136 LT	90' GUARDRAIL
16.625	16.646	ROUTE 136 RT	111' GUARDRAIL
16.724	16.741	ROUTE 136 LT	90' GUARDRAIL
16.724	16.745	ROUTE 136 RT	111' GUARDRAIL
17.092	17.109	ROUTE 136 LT	90' GUARDRAIL
17.092	17.109	ROUTE 136 RT	90' GUARDRAIL
17.194	17.225	ROUTE 136 LT	164' GUARDRAIL
17.194	17.211	ROUTE 136 RT	90' GUARDRAIL
23.234	23.258	ROUTE 136 LT	127' GUARDRAIL
23.234	23.258	ROUTE 136 RT	127' GUARDRAIL
31.125	31.140	ROUTE 136 LT	90' GUARDRAIL
31.125	31.140	ROUTE 136 RT	90' GUARDRAIL
31.140		ROUTE 136 LT	18 SY CONCRETE DRAIN FLUME
31.140		ROUTE 136 RT	18 SY CONCRETE DRAIN FLUME
31.198		ROUTE 136 LT	18 SY CONCRETE DRAIN FLUME
31.198		ROUTE 136 RT	18 SY CONCRETE DRAIN FLUME
31.198	31.208	ROUTE 136 LT	90' GUARDRAIL
31.198	31.208	ROUTE 136 RT	90' GUARDRAIL
31.606	31.624	ROUTE 136 LT	90' GUARDRAIL
31.606	31.624	ROUTE 136 RT	90' GUARDRAIL
31.624		ROUTE 136 LT	18 SY CONCRETE DRAIN FLUME
31.624		ROUTE 136 RT	18 SY CONCRETE DRAIN FLUME
31.708		ROUTE 136 LT	18 SY CONCRETE DRAIN FLUME
31.708		ROUTE 136 RT	18 SY CONCRETE DRAIN FLUME
31.708	31.722	ROUTE 136 LT	90' GUARDRAIL
31.708	31.722	ROUTE 136 RT	90' GUARDRAIL
1 LUMP SUM			

PAVEMENT MARKING								
LOG MILE	LOG MILE	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)		PREFORMED THERMOPLASTIC			REMARKS
					24" SOLID		LEFT/RIGHT	
			6" WHITE (L.F.)	6" YELLOW (L.F.)	WHITE (L.F.)	YELLOW (L.F.)	ARROWS (EA)	
5.170	14.270	ROUTE 136		96096.0				DOUBLE YELLOW
5.170	5.199	ROUTE 136 LT	153.1					EDGE LINE
5.170	5.189	ROUTE 136 RT	100.3					EDGE LINE
5.213	5.327	ROUTE 136 RT	601.9					EDGE LINE
5.220	5.337	ROUTE 136 LT	617.8					EDGE LINE
5.349	7.690	ROUTE 136 RT	12360.5					EDGE LINE
5.364	7.690	ROUTE 136 LT	12281.3					EDGE LINE
7.965	7.976	ROUTE 136			24			2-STOP BARS
8.192	9.861	ROUTE 136 LT	8812.3					EDGE LINE
8.192	10.765	ROUTE 136 RT	13585.4					EDGE LINE
9.884	15.514	ROUTE 136 LT	29726.4					EDGE LINE
10.795	14.337	ROUTE 136 RT	18701.8					EDGE LINE
14.270	14.496	ROUTE 136		8559.0				DOUBLE YELLOW
14.270	14.496	ROUTE 136	226.4			110	2	LEFT TURN LANE
14.380	15.514	ROUTE 136 RT	5987.5					EDGE LINE
14.496	35.143	ROUTE 136		218032.3				DOUBLE YELLOW
15.752		ROUTE 136	22.0					CROSSWALK
15.753		ROUTE 136	22.0					CROSSWALK
15.773	15.804	ROUTE 136			36			3- STOP BARS
16.481	16.779	ROUTE 136 LT	1573.4					EDGE LINE
16.481	21.830	ROUTE 136 RT	28242.7					EDGE LINE
16.805	22.834	ROUTE 136 LT	31833.1					EDGE LINE
21.857	30.248	ROUTE 136 RT	44304.5					EDGE LINE
22.861	25.865	ROUTE 136 LT	15861.1					EDGE LINE
25.894	29.993	ROUTE 136 LT	21642.7					EDGE LINE
30.020	32.766	ROUTE 136 LT	14498.9					EDGE LINE
30.272	32.766	ROUTE 136 RT	13168.3					EDGE LINE
33.069	35.143	ROUTE 136 LT	10950.7					EDGE LINE
33.069	35.143	ROUTE 136 RT	10950.7					EDGE LINE
TOTAL			296224.8	322687.3	60	110	2	
USE			296225	322687	60	110	2	
SEE PAVEMENT MARKING LOG JSP								

COLDMILLING (3 IN. OR LESS)						
LOG MILE	LOG MILE	LOC	WIDTH FT	LENGTH FT	BIT. PAVEMENT FOR REMOVAL OF SURFACE (3 IN. OR LESS) SY	REMARKS
5.17	5.247	CL/LT/RT	38	406.56	1716.6	MILL/FILL
5.308	5.613	CL/LT/RT	38	1610.4	6799.5	MILL/FILL
7.072	7.685	CL/LT/RT	40	3236.64	14385.1	MILL/FILL
7.685	7.963	CL/LT/RT	32	1467.84	5219.0	MILL/FILL
7.963	8.115	CL/LT/RT	24	802.56	2140.2	MILL/FILL
8.136	8.480	CL/LT/RT	28	1816.32	5650.8	MILL/FILL
15.267	15.515	CL/LT/RT	28	1309.44	4073.8	MILL/FILL
15.515	16.397	CL/LT/RT	24	4656.96	12418.6	MILL/FILL
16.397	16.517	CL/LT/RT	26	633.6	1830.4	MILL/FILL
32.768	32.953	CL/LT/RT	32	976.8	3473.1	MILL/FILL
32.953	33.799	CL/LT/RT	28	4466.88	13897.0	MILL/FILL
35.131	35.141	CL/LT/RT	VAR.	VAR.	400.9	ROUTE 71 INTERSECTION
TOTAL					72005.0	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.						

SUMMARY OF QUANTITIES
1 OF 8

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED
SURVEYING & STAKING
1 LUMP SUM

James Wingert
2025.08.29 09:46:35-05'00'

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
3

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

PAVEMENT & ENTRANCES											
LOG MILE	LOG MILE	LOC	LENGTH	WIDTH	MEASURED AREA	THICK	2" (BP-1) PG58-28H (1.960 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL (A) OR CRUSHED STONE (B) (SY)	PERMANENT AGGREGATE EDGE TREATMENT (TON)	REMARKS
			FT	FT	SY	IN					
5.170	5.209	CL/LT/RT	205.92	38.0	869.4	2.0	94.9	86.9			BEGIN PROJECT TO I29 RAMP
5.209	5.247	CL/LT/RT	200.64	38.0	847.1	2.0	92.4	84.7			I29 RAMP TO BRIDGE A2379
5.308	5.347	CL/LT/RT	205.92	38.0	869.4	2.0	94.9	86.9			BRIDGE A2379 TO I29 RAMP
5.347	5.371	CL/LT/RT	126.72	38.0	535.0	2.0	58.4	53.5			I29 RAMP TO TYPICAL CHANGE
5.371	5.399	CL/LT/RT	147.84	38.0	624.2	2.0	68.1	62.4			TYPICAL CHANGE TO OUTER ROAD RT
5.399	5.430	CL/LT/RT	163.68	38.0	691.1	2.0	75.4	69.1			OUTER ROAD RT TO LIBERTY LANE
5.430	5.613	CL/LT/RT	966.24	38.0	4079.7	2.0	445.1	408.0			LIBERTY LANE TO TYPICAL CHANGE
5.613	6.296	CL/LT/RT	3606.24	38.0	15226.3	2.0	1661.3	1522.6		62.3	TYPICAL CHANGE TO GLIDER AVENUE RT
6.296	6.335	CL/LT/RT	205.92	38.0	869.4	2.0	94.9	86.9		3.6	GLIDER AVENUE RT TO GLIDER AVENUE LT
6.335	6.487	CL/LT/RT	802.56	38.0	3388.6	2.0	369.7	338.9		13.9	GLIDER AVENUE LT. TO GLIDER AVENUE LT
6.487	6.743	CL/LT/RT	1351.68	38.0	5707.1	2.0	622.7	570.7		23.4	GLIDER AVENUE LT TO ROUTE 275
6.743	6.886	CL/LT/RT	755.04	40.0	3355.7	2.0	366.1	335.6		13.0	ROUTE 275 TO TYPICAL CHANGE
6.886	7.685	CL/LT/RT	4218.72	40.0	18749.9	2.0	2045.7	1875.0		72.9	TYPICAL CHANGE TO START OF C&G LT
7.410	7.432	RT	116.16	8.0	103.3	2.0	11.3				SHOULDER REPAIR
7.685	7.847	CL/LT/RT	855.36	32.0	3041.3	2.0	331.8	304.1		14.8	START OF C&G LT TO NEBRASKA STREET
7.847	7.879	CL/LT/RT	168.96	32.0	600.7	2.0	65.5	60.1		2.9	NEBRASKA STREET TO MARNER STREET
7.879	7.955	CL/LT/RT	401.28	32.0	1426.8	2.0	155.7	142.7		6.9	MARNER STREET TO C&G RT
7.955	7.963	CL/LT/RT	42.24	24.0	112.6	2.0	12.3	11.3		0.7	C&G RT TO TYPICAL CHANGE
7.963	7.971	CL/LT/RT	42.24	24.0	112.6	2.0	12.3	11.3			TYPICAL CHANGE TO ROUTE 111 (MAIN STREET)
7.971	8.041	CL/LT/RT	369.60	24.0	985.6	2.0	107.5	98.6			ROUTE 111 (MAIN STREET) TO WATER STREET
7.949	7.960	RT	58.08	8.0	51.6	2.0	5.6				SHOULDER REPAIR
8.041	8.100	CL/LT/RT	311.52	24.0	830.7	2.0	90.6	83.1			WATER STREET TO COLVAN STREET
8.100	8.115	CL/LT/RT	79.20	28.0	246.4	2.0	26.9	24.6			COLVAN STREET TO BRIDGE (A2545)
8.136	8.154	CL/LT/RT	95.04	28.0	295.7	2.0	32.3	29.6		7.4	BRIDGE (A2545) TO COUNTRY CLUB DRIVE
8.154	8.228	CL/LT/RT	390.72	28.0	1215.6	2.0	132.6	121.6		30.4	COUNTRY CLUB DRIVE TO INDUSTRIAL ROAD
8.228	8.480	CL/LT/RT	1330.56	28.0	4139.5	2.0	451.6	414.0		103.5	INDUSTRIAL ROAD TO TYPICAL CHANGE
8.480	8.722	CL/LT/RT	1277.76	28.0	3975.3	2.0	433.7	397.5		99.4	TYPICAL CHANGE TO BURKE ROAD
8.722	9.148	CL/LT/RT	2249.28	28.0	6997.8	2.0	763.5	699.8		174.9	BURKE ROAD TO 212 STREET
9.148	9.356	CL/LT/RT	1098.24	28.0	3416.7	2.0	372.8	341.7		85.4	212 STREET TO JUNIPER AVENUE
9.356	9.874	CL/LT/RT	2735.04	28.0	8509.0	2.0	928.4	850.9		212.7	JUNIPER AVENUE TO ROUTE Y
9.874	10.213	CL/LT/RT	1789.92	28.0	5568.6	2.0	607.6	556.9		139.2	ROUTE Y TO TYPICAL CHANGE
10.213	10.779	CL/LT/RT	2988.48	28.0	9297.5	2.0	1014.4	929.8		77.5	TYPICAL CHANGE TO ROUTE J
10.779	10.854	CL/LT/RT	396.00	28.0	1232.0	2.0	134.4	123.2		10.3	ROUTE J TO L AVENUE
10.854	11.871	CL/LT/RT	5369.76	28.0	16705.9	2.0	1822.7	1670.6		139.2	L AVENUE TO BRIDGE (B0008)
11.900	12.859	CL/LT/RT	5063.52	28.0	15753.2	2.0	1718.8	1575.3		131.3	BRIDGE (B0008) TO N AVENUE
12.859	13.603	CL/LT/RT	3928.32	28.0	12221.4	2.0	1333.4	1222.1		101.8	N AVENUE TO NOBLE AVENUE
13.603	14.270	CL/LT/RT	3521.76	28.0	10956.6	2.0	1195.4	1095.7		91.3	NOBLE AVENUE TO BEGIN 3 LANE SECTION
14.270	14.335	CL/LT/RT	343.20	40.0	1525.3	2.0	166.4	152.5		17.8	3 LANE SECTION TO ROUTE 59
14.355	14.496	CL/LT/RT	744.48	40.0	3308.8	2.0	361.0	330.9		38.6	ROUTE 59 TO END 3 LANE SECTION
14.496	14.622	CL/LT/RT	665.28	28.0	2069.8	2.0	225.8	207.0		17.2	END 3 LANE SECTION TO TYPICAL CHANGE
14.622	14.909	CL/LT/RT	1515.36	44.0	7408.4	2.0	808.3	740.8		26.2	TYPICAL CHANGE TO P AVENUE
14.909	15.016	CL/LT/RT	564.96	44.0	2762.0	2.0	301.4	276.2		9.8	P AVENUE TO TYPICAL CHANGE
15.016	15.267	CL/LT/RT	1325.28	28.0	4123.1	2.0	449.9	412.3		34.4	TYPICAL CHANGE TO 205TH STREET
15.267	15.515	CL/LT/RT	1309.44	28.0	4073.8	2.0	444.5	407.4		33.9	205TH STREET TO 10TH STREET
15.515	15.534	CL/LT/RT	100.32	24.0	267.5	2.0	29.2	26.8			10TH STREET TO LOCUST STREET
15.534	15.722	CL/LT/RT	992.64	24.0	2647.0	2.0	288.8	264.7			LOCUST STREET TO PINE STREET RT
15.722	15.767	CL/LT/RT	237.60	24.0	633.6	2.0	69.1	63.4			PINE STREET RT TO PINE STREET LT
15.767	15.791	CL/LT/RT	126.72	24.0	337.9	2.0	36.9	33.8			PINE STREET LT TO WALNUT STREET
15.791	15.870	CL/LT/RT	417.12	24.0	1112.3	2.0	121.4	111.2			WALNUT STREET TO 9TH STREET
15.870	15.947	CL/LT/RT	406.56	24.0	1084.2	2.0	118.3	108.4			9TH STREET TO 8TH STREET
15.947	16.015	CL/LT/RT	359.04	24.0	957.4	2.0	104.5	95.7			8TH STREET TO 7TH STREET
16.015	16.084	CL/LT/RT	364.32	24.0	971.5	2.0	106.0	97.2			7TH STREET TO 6TH STREET
16.084	16.151	CL/LT/RT	353.76	24.0	943.4	2.0	102.9	94.3			6TH STREET TO 5TH STREET
16.151	16.219	CL/LT/RT	359.04	24.0	957.4	2.0	104.5	95.7			5TH STREET TO 4TH STREET
16.219	16.288	CL/LT/RT	364.32	24.0	971.5	2.0	106.0	97.2			4TH STREET TO 3RD STREET
16.288	16.357	CL/LT/RT	364.32	24.0	971.5	2.0	106.0	97.2			3RD STREET TO 2ND STREET
16.357	16.397	CL/LT/RT	211.20	24.0	563.2	2.0	61.4	56.3			2ND STREET TO TYPICAL CHANGE
16.397	16.432	CL/LT/RT	184.80	26.0	533.9	2.0	58.2	53.4		9.6	TYPICAL CHANGE TO 1ST STREET
16.432	16.517	CL/LT/RT	448.80	26.0	1296.5	2.0	141.5	129.7		23.3	1ST STREET TO TYPICAL CHANGE
16.517	16.646	CL/LT/RT	681.12	28.0	2119.0	2.0	231.2	211.9		70.6	TYPICAL CHANGE TO BRIDGE (A4660)
16.724	16.794	CL/LT/RT	369.60	28.0	1149.9	2.0	125.5	115.0		38.3	BRIDGE (A4660) TO ROUTE O
16.794	16.920	CL/LT/RT	665.28	28.0	2069.8	2.0	225.8	207.0		69.0	ROUTE O TO BRIDGE (A4786)
16.986	17.109	CL/LT/RT	649.44	28.0	2020.5	2.0	220.4	202.1		67.3	BRIDGE (A4786) TO BRIDGE (A4661)
17.194	17.578	CL/LT/RT	2027.52	28.0	6307.8	2.0	688.2	630.8		210.3	BRIDGE (A4661) TO TYPICAL CHANGE
SUBTOTAL - 1							23653.8	21664.6	0.0	2285.0	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
2 OF 8

James Wingert
2025.09.04 14:21:19-05'00'

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
3

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

PAVEMENT & ENTRANCES											
LOG MILE	LOG MILE	LOC	LENGTH	WIDTH	MEASURED AREA	THICK	2" (BP-1) PG58-28H (1.960 TON/CY)	TACK COAT (0.10 GAL/SY)	GRAVEL (A) OR CRUSHED STONE (B)	PERMANENT AGGREGATE EDGE TREATMENT (TON)	REMARKS
			FT	FT	SY	IN	(TON)	(GAL)	(SY)		
17.578	17.804	CL/LT/RT	1193.28	28.0	3712.4	2.0	405.1	371.2		20.6	TYPICAL CHANGE TO R AVENUE
17.804	18.826	CL/LT/RT	5396.16	28.0	16788.1	2.0	1831.7	1678.8		93.2	R AVENUE TO S AVENUE LT
18.826	18.884	CL/LT/RT	306.24	28.0	952.7	2.0	104.0	95.3		5.3	S AVENUE LT TO S AVENUE RT
18.884	19.831	CL/LT/RT	5000.16	28.0	15556.1	2.0	1697.3	1555.6		86.4	S AVENUE RT TO T AVENUE
19.831	20.332	CL/LT/RT	2645.28	28.0	8229.8	2.0	897.9	823.0		45.7	T AVENUE TO TITAN AVENUE
20.332	20.833	CL/LT/RT	2645.28	28.0	8229.8	2.0	897.9	823.0		45.7	TITAN AVENUE TO U AVENUE
20.833	21.844	CL/LT/RT	5338.08	28.0	16607.4	2.0	1812.0	1660.7		92.2	U AVENUE TO ROUTE N
21.844	22.848	CL/LT/RT	5301.12	28.0	16492.4	2.0	1799.4	1649.2		91.6	ROUTE N TO ROUTE M
22.848	23.212	CL/LT/RT	1921.92	28.0	5979.3	2.0	652.4	597.9		33.2	ROUTE M TO BRIDGE (A7934)
23.234	23.855	CL/LT/RT	3278.88	28.0	10201.0	2.0	1113.0	1020.1		85.0	BRIDGE (A7934) TO X AVENUE
23.855	24.888	CL/LT/RT	5454.24	28.0	16968.7	2.0	1851.4	1696.9		141.4	X AVENUE TO Y AVENUE
24.888	25.880	CL/LT/RT	5237.76	28.0	16295.3	2.0	1777.9	1629.5		135.8	Y AVENUE TO ROUTE YY
25.880	26.578	CL/LT/RT	3685.44	28.0	11465.8	2.0	1251.0	1146.6		95.5	ROUTE YY TO BRIDGE (A8449)
26.606	26.878	CL/LT/RT	1436.16	28.0	4468.1	2.0	487.5	446.8		37.2	BRIDGE (A8449) TO 200TH STREET
26.878	27.431	CL/LT/RT	2919.84	28.0	9083.9	2.0	991.1	908.4		75.7	200TH STREET TO 205TH STREET
27.431	27.989	CL/LT/RT	2946.24	28.0	9166.1	2.0	1000.1	916.6		76.4	205TH STREET TO APOLLO TRAIL
27.989	28.998	CL/LT/RT	5327.52	28.0	16574.5	2.0	1808.4	1657.5		138.1	APOLLO TRAIL TO BIRCH ROAD
28.998	29.755	CL/LT/RT	3996.96	28.0	12435.0	2.0	1356.7	1243.5		103.6	BIRCH ROAD TO BOBCAT ROAD
29.755	30.007	CL/LT/RT	1330.56	28.0	4139.5	2.0	451.6	414.0		34.5	BOBCAT ROAD TO ROUTE KK
30.007	30.265	CL/LT/RT	1362.24	28.0	4238.1	2.0	462.4	423.8		35.3	ROUTE KK TO ROUTE PP
30.265	30.323	CL/LT/RT	306.24	28.0	952.7	2.0	104.0	285.8		7.9	* ROUTE PP TO TYPICAL CHANGE
30.323	30.795	CL/LT/RT	2492.16	28.0	7753.4	4.0	1686.8	2326.0		430.7	* TYPICAL CHANGE TO CARAVAN ROAD
30.795	31.140	CL/LT/RT	1821.60	28.0	5667.2	4.0	1233.0	1700.2		314.8	* CARAVAN ROAD TO BRIDGE A4570
31.198	31.624	CL/LT/RT	2249.28	28.0	6997.8	4.0	1522.4	2099.3		388.8	* BRIDGE A4570 TO BRIDGE A4571
31.708	32.054	CL/LT/RT	1826.88	28.0	5683.6	4.0	1236.5	1705.1		315.8	* BRIDGE A4571 TO DANUBE ROAD
32.054	32.212	CL/LT/RT	834.24	28.0	2595.4	4.0	564.7	778.6		144.2	* DANUBE ROAD TO TYPICAL CHANGE
32.212	32.695	CL/LT/RT	2550.24	28.0	7934.1	2.0	865.7	793.4		66.1	TYPICAL CHANGE TO VALLEYBROOK DRIVE
32.695	32.768	CL/LT/RT	385.44	28.0	1199.1	2.0	130.8	119.9		10.0	VALLEYBROOK DRIVE TO DAVIS STREET
32.768	32.847	CL/LT/RT	417.12	32.0	1483.1	2.0	161.8	148.3			DAVIS STREET TO CLARINDA STREET
32.847	32.918	CL/LT/RT	374.88	32.0	1332.9	2.0	145.4	133.3			CLARINDA STREET TO CALDWELL STREET
32.918	32.953	CL/LT/RT	184.80	28.0	574.9	2.0	62.7	57.5			CALDWLL STREET TO TYPICAL CHANGE
32.953	32.985	CL/LT/RT	168.96	28.0	525.7	2.0	57.4	52.6		12.0	TYPICAL CHANGE TO SMITH STREET
32.985	33.056	CL/LT/RT	374.88	28.0	1166.3	2.0	127.3	116.6		26.7	SMITH STREET TO ROUTE 113
33.056	33.129	CL/LT/RT	385.44	28.0	1199.1	2.0	130.8	119.9		10.0	ROUTE 113 TO MANNING STREET
33.129	33.210	CL/LT/RT	427.68	28.0	1330.6	2.0	145.2	133.1		11.1	MANNING STREET TO BLANCHE STREET
33.210	33.234	CL/LT/RT	126.72	28.0	394.2	2.0	43.0	39.4		3.3	BLANCHE STREET TO PARK STREET
33.234	33.380	CL/LT/RT	770.88	28.0	2398.3	2.0	261.7	239.8		20.0	PARK STREET TO OAK STREET
33.380	33.442	CL/LT/RT	327.36	28.0	1018.5	2.0	111.1	101.9		8.5	OAK STREET TO FILMORE STREET
33.442	33.634	CL/LT/RT	1013.76	28.0	3153.9	2.0	344.1	315.4		26.3	FILMORE STREET TO DYNASTY ROAD
33.634	34.134	CL/LT/RT	2640.00	28.0	8213.3	2.0	896.1	821.3		68.4	DYNASTY ROAD TO EAGLE ROAD
34.134	35.143	CL/LT/RT	5327.52	28.0	16574.5	2.0	1808.4	1657.5		138.1	EAGLE ROAD TO END OF PROJECT
5.209		LT	20.00	VAR.	156.9	2.0	17.1	15.7			ROUTE I29 SB OFF RAMP
5.209		RT	20.00	VAR.	156.9	2.0	17.1	15.7			ROUTE I29 SB ON RAMP
5.347		RT	20	VAR.	156.9	2.0	17.1	15.7			ROUTE I29 NB OFF RAMP
5.347		LT	20	VAR.	156.9	2.0	17.1	15.7			ROUTE I29 NB ON RAMP
6.743		RT	20	VAR.	208.6	2.0	22.8	20.9			ROUTE 275
7.967		RT	20	VAR.	111.5	2.0	12.2	11.2			ROUTE 111
9.874		LT	20	VAR.	202.8	2.0	22.1	20.3			ROUTE Y
10.779		RT	20	VAR.	193.9	2.0	21.2	19.4			ROUTE J
14.355		RT	20	VAR.	340.8	2.0	37.2	34.1			ROUTE 59
15.791		LT	VAR.	VAR.	1102.6	2.0	120.3	110.3			ROUTE 59
16.794		LT	20	VAR.	230.3	2.0	25.1	23.0			ROUTE O
21.840		RT	20	VAR.	200.5	2.0	21.9	20.1			ROUTE N
22.848		LT	20	VAR.	174.1	2.0	19.0	17.4			ROUTE M
25.880		LT	20	VAR.	206.9	2.0	22.6	20.7			ROUTE YY
30.007		LT	20	VAR.	180.7	2.0	19.7	18.1			ROUTE KK
30.265		RT	20	VAR.	199.3	2.0	21.7	19.9			ROUTE PP
5.399		RT	10	VAR.	180.0	2.0	19.6	18.0			OUTER ROAD
5.430		LT	10	VAR.	88.3	2.0	9.6	8.8			LIBERTY LANE
			SUBTOTAL - 2				34751.1	34928.3	0.0	3475.1	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.											
* CONTRACTOR SHALL MAKE 3 PASSES OF TACK COAT											

James Wingert
2025.09.04
14:22:45-0500

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
3

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

SUMMARY OF QUANTITIES
3 OF 8

PAVEMENT & ENTRANCES											
LOG MILE	LOG MILE	LOC	LENGTH	WIDTH	MEASURED AREA	THICK	2" (BP-1) PG58-28H (1.960 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL (A) OR CRUSHED STONE (B) (SY)	PERMANENT AGGREGATE EDGE TREATMENT (TON)	REMARKS
8.154		RT	10	VAR.	87.7	2.0	9.6	8.8			COUNTRY CLUB LANE
8.228		LT	10	VAR.	83.4	2.0	9.1	8.3			INDUSTRIAL ROAD
8.722		RT	10	VAR.	88.0	2.0	9.6	8.8			BURKE ROAD
9.356		RT	10	VAR.	94.6	2.0	10.3	9.5			BURKE ROAD
16.794		RT	10	VAR.	127.3	2.0	13.9	12.7			O AVENUE
32.695		LT	10	VAR.	42.3	2.0	4.6	4.2			VALLEYBROOK DRIVE
33.129		LT	10	VAR.	42.3	2.0	4.6	4.2			MANNING STREET
33.210		LT	10	VAR.	42.3	2.0	4.6	4.2			BLANCHE STREET
33.234		LT	10	VAR.	42.3	2.0	4.6	4.2			PARK STREET
33.380		LT	10	VAR.	42.3	2.0	4.6	4.2			OAK STREET
33.442		LT	10	VAR.	42.3	2.0	4.6	4.2			FILMORE STREET
5.308	35.143	LT/RT	2	VAR.	10.2	VAR.	63.4	58.1			PAVED ENTRANCES (57)
5.308	35.143	LT/RT	2	VAR.	10.2	1.0	213.7	195.8	1958.4		NON-PAVED ENTRANCES (192)
5.170	35.143	LT/RT	158257.44				479.6				RUTTING & IRREGULARTIES (16 TON/MILE)
			SUBTOTAL - 3				836.8	327.2	1958.4	0.0	
			SUBTOTAL - 1				23653.8	21664.6	0.0	2285.0	
			SUBTOTAL - 2				34751.1	34928.3	0.0	3475.1	
5.170	35.143	LT/RT					1184.8				2% FOR SAFETY EDGE
5.170	35.143	LT/RT					5924.2	5692.0			10% FOR PAVEMENT REPAIRS
5.170	35.143	LT/RT					5924.2				10% FOR SHOULDER REPAIRS
			TOTAL				72274.9	62612.1	1958.4	5760.1	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.											

CURB RAMPS				
LOG MILE	LOC	CONCRETE CURB RAMPS (SY)	TRUNCATED DOMES (SF)	REMARKS
16.282	LT	6.6	10.0	ROUTE 136 & 3RD STREET - TARKIO
16.282	RT	6.4	10.0	ROUTE 136 & 3RD STREET - TARKIO
TOTAL		13.0	20.0	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.				

SUMMARY OF QUANTITIES
4 OF 8

James Wingert
2025.09.04 14:19:46-05'00'

JAMES J. WINGERT
NUMBER
PE-2009001144



JAMES J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
136

STATE
MO

DISTRICT
NW

SHEET NO.
3

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

olsson

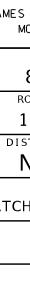
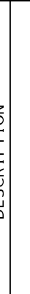
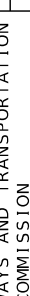
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

RUMBLE STRIPS				
LOG MILE	LOG MILE	LOCATION	EDGE LINE RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)
5.657	5.704	ROUTE 136 LT	2.5	
5.657	6.149	ROUTE 136 RT	26.0	
5.657	6.905	ROUTE 136		65.9
5.746	5.785	ROUTE 136 LT	2.1	
5.841	5.980	ROUTE 136 LT	7.3	
6.026	6.073	ROUTE 136 LT	2.5	
6.128	6.316	ROUTE 136 LT	9.9	
6.198	6.258	ROUTE 136 RT	3.2	
6.313	6.585	ROUTE 136 RT	14.4	
6.370	6.470	ROUTE 136 LT	5.3	
6.516	6.627	ROUTE 136 LT	5.9	
6.637	6.905	ROUTE 136 RT	14.2	
6.688	6.720	ROUTE 136 LT	1.7	
6.781	6.905	ROUTE 136 LT	6.5	
8.608	8.683	ROUTE 136 RT	4.0	
8.608	9.333	ROUTE 136 LT	38.3	
8.608	11.871	ROUTE 136	172.3	172.3
8.738	9.111	ROUTE 136 RT	19.7	
9.164	9.317	ROUTE 136 RT	8.1	
9.362	9.465	ROUTE 136 RT	5.4	
9.499	9.851	ROUTE 136 LT	18.6	
9.509	9.595	ROUTE 136 RT	4.5	
9.643	9.893	ROUTE 136 RT	13.2	
9.908	10.067	ROUTE 136 LT	8.4	
9.942	10.230	ROUTE 136 RT	15.2	
10.115	10.828	ROUTE 136 LT	37.6	
10.267	10.740	ROUTE 136 RT	25.0	
10.806	11.407	ROUTE 136 RT	31.7	
10.888	11.078	ROUTE 136 LT	10.0	
11.118	11.295	ROUTE 136 LT	9.3	
11.337	11.871	ROUTE 136 LT	28.2	
11.465	11.717	ROUTE 136 RT	13.3	
11.757	11.871	ROUTE 136 RT	6.0	
11.900	14.342	ROUTE 136		128.9
11.900	11.912	ROUTE 136 LT	0.6	
11.900	12.827	ROUTE 136 RT	48.9	
11.957	12.843	ROUTE 136 LT	46.8	
12.887	12.911	ROUTE 136 LT	1.3	
12.874	12.959	ROUTE 136 RT	4.5	
12.959	13.567	ROUTE 136 LT	32.1	
13.001	13.086	ROUTE 136 RT	4.5	
13.127	13.492	ROUTE 136 RT	19.3	
13.532	13.791	ROUTE 136 RT	13.7	
13.632	13.803	ROUTE 136 LT	9.0	
13.841	14.233	ROUTE 136 LT	20.7	
13.836	14.312	ROUTE 136 RT	25.1	
14.313	14.956	ROUTE 136 LT	34.0	
14.391	14.451	ROUTE 136 RT	3.2	
14.358	15.164	ROUTE 136		42.6
14.548	14.875	ROUTE 136 RT	17.3	
14.926	15.117	ROUTE 136 RT	10.1	
14.999	15.164	ROUTE 136 LT	8.7	
15.159	15.164	ROUTE 136 RT	0.3	
16.552	16.646	ROUTE 136 RT	5.0	
16.552	16.646	ROUTE 136 LT	5.0	
16.552	16.646	ROUTE 136		5.0
16.724	16.760	ROUTE 136 RT	1.9	
16.724	16.769	ROUTE 136 LT	2.4	
16.724	17.109	ROUTE 136		20.3
16.809	17.109	ROUTE 136 RT	15.8	
16.830	17.109	ROUTE 136 LT	14.7	
17.194	23.212	ROUTE 136		317.8
17.194	17.649	ROUTE 136 RT	24.0	
17.194	17.969	ROUTE 136 LT	40.9	
17.692	17.770	ROUTE 136 RT	4.1	
17.852	18.505	ROUTE 136 RT	34.5	
18.031	18.301	ROUTE 136 LT	14.3	
18.342	18.809	ROUTE 136 LT	24.7	
18.551	18.847	ROUTE 136 RT	15.6	
18.852	19.814	ROUTE 136 LT	50.8	
18.900	19.074	ROUTE 136 RT	9.2	
19.122	19.798	ROUTE 136 RT	35.7	
19.846	20.404	ROUTE 136 RT	29.5	
		SUBTOTAL - 1	1198.6	752.8

RUMBLE STRIPS				
LOG MILE	LOG MILE	LOCATION	EDGE LINE RUMBLE STRIPS (STA)	CENTER LINE RUMBLE STRIPS (STA)
19.862	20.318	ROUTE 136 LT	24.1	
20.359	20.754	ROUTE 136 LT	20.9	
20.443	20.800	ROUTE 136 RT	18.8	
20.793	21.191	ROUTE 136 LT	21.0	
20.848	21.804	ROUTE 136 RT	50.5	
21.232	21.828	ROUTE 136 LT	31.5	
21.875	22.718	ROUTE 136 LT	44.5	
21.867	22.817	ROUTE 136 RT	50.2	
22.760	22.827	ROUTE 136 LT	3.5	
22.861	23.212	ROUTE 136 RT	18.5	
22.885	23.122	ROUTE 136 LT	12.5	
23.165	23.212	ROUTE 136 LT	2.5	
23.234	26.578	ROUTE 136		176.6
23.234	23.824	ROUTE 136 LT	31.2	
23.234	23.400	ROUTE 136 RT	8.8	
23.445	23.808	ROUTE 136 RT	19.2	
23.870	24.001	ROUTE 136 RT	6.9	
23.886	24.873	ROUTE 136 LT	52.1	
24.049	24.851	ROUTE 136 RT	42.3	
24.906	25.493	ROUTE 136 RT	31.0	
24.919	25.327	ROUTE 136 LT	21.5	
25.395	25.519	ROUTE 136 LT	6.5	
25.537	26.578	ROUTE 136 RT	55.0	
25.585	25.857	ROUTE 136 LT	14.4	
25.919	26.411	ROUTE 136 LT	26.0	
26.456	26.517	ROUTE 136 LT	3.2	
26.546	26.578	ROUTE 136 LT	1.7	
26.606	35.133	ROUTE 136		450.2
26.606	27.970	ROUTE 136 LT	72.0	
26.606	26.841	ROUTE 136 RT	12.4	
26.893	27.390	ROUTE 136 RT	26.2	
27.451	27.961	ROUTE 136 RT	26.9	
28.019	28.660	ROUTE 136 LT	33.8	
28.054	28.454	ROUTE 136 RT	21.1	
28.520	28.674	ROUTE 136 RT	8.1	
28.731	28.981	ROUTE 136 LT	13.2	
28.730	29.218	ROUTE 136 RT	25.8	
29.032	29.119	ROUTE 136 LT	4.6	
29.165	29.984	ROUTE 136 LT	43.2	
29.261	29.718	ROUTE 136 RT	24.1	
29.769	30.221	ROUTE 136 RT	23.9	
30.044	30.389	ROUTE 136 LT	18.2	
30.279	31.140	ROUTE 136 RT	45.5	
30.405	30.646	ROUTE 136 LT	12.7	
30.726	30.779	ROUTE 136 LT	2.8	
30.823	31.140	ROUTE 136 LT	16.7	
31.198	31.624	ROUTE 136 RT	22.5	
31.198	31.219	ROUTE 136 LT	1.1	
31.272	31.624	ROUTE 136 LT	18.6	
31.708	32.016	ROUTE 136 RT	16.3	
31.708	32.036	ROUTE 136 LT	17.3	
32.071	32.203	ROUTE 136 RT	7.0	
32.090	32.191	ROUTE 136 LT	5.3	
33.823	33.919	ROUTE 136 LT	5.1	
33.837	33.867	ROUTE 136 RT	1.6	
33.909	34.098	ROUTE 136 RT	10.0	
33.960	34.042	ROUTE 136 LT	4.3	
34.084	34.156	ROUTE 136 LT	3.8	
34.149	34.754	ROUTE 136 RT	31.9	
34.195	34.376	ROUTE 136 LT	9.6	
34.418	34.443	ROUTE 136 LT	1.3	
34.480	34.712	ROUTE 136 LT	12.2	
34.752	34.817	ROUTE 136 LT	3.4	
34.794	35.132	ROUTE 136 RT	17.8	
34.857	35.084	ROUTE 136 LT	12.0	
35.123	35.132	ROUTE 136 LT	0.5	
SUBTOTAL - 2			1251.1	626.8
SUBTOTAL - 1			1198.5	752.8
TOTAL			2449.6	1379.6

SUMMARY OF QUANTITIES
5 OF 8

James Wingert 2025.08.29 09:50:09-05'00'  JAMES J. WINGERT-ENGINEER MO# PE-2009001144		DATE PREPARED 8/27/2025	
ROUTE 136		STATE MO	
DISTRICT NW		SHEET NO. 3	
COUNTY ATCHISON & NODAWAY			
JOB NO. JNW0021			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
DESCRIPTION		DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		 105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
		1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116 PHONE: 816.361.1177 CERTIFICATE OF AUTHORITY NO. 001592	

GUARDRAIL											
LOG MILE	LOG MILE	LOCATION	MGS		TYPE A CRASHWORTHY END TERMINAL (MASH) (EA.)	TYPE A GUARDRAIL (L.F.)	BRIDGE ANCHOR SECTION (CURB TYPE) (EA.)	TRANSITION SECTION 6.5 FT. POST (EA.)	END ANCHOR (EA.)	MODIFIED SHAPING SLOPES CLASS III (100 FT)	REMARKS
			GUARDRAIL 8 FT POST (L.F.)	BRIDGE APPROACH TRANSITION (EA.)							
5.654	5.792	ROUTE 136 RT	637.5		2					2	
5.722	5.792	ROUTE 136 LT	275.0		2					2	
5.865	5.973	ROUTE 136 RT	475.0		2					2	
5.866	5.988	ROUTE 136 LT	550.0		2					2	
6.076	6.162	ROUTE 136 RT	362.5		2					2	
6.164	6.278	ROUTE 136 LT	512.5		2					2	
6.304	6.480	ROUTE 136 RT	837.5		2					2	
6.353	6.480	ROUTE 136 LT	575.0		2					2	
8.098	8.115	ROUTE 136 LT		1	1					1	BRIDGE END (A2545)
8.098	8.115	ROUTE 136 RT		1	1					1	BRIDGE END (A2545)
8.136	8.151	ROUTE 136 LT				75	1	1	1		BRIDGE END (A2545)
8.136	8.151	ROUTE 136 RT				50	1	1	1		BRIDGE END (A2545)
11.830	11.871	ROUTE 136 LT	125.0	1	1					1	BRIDGE END (B0008)
11.800	11.871	ROUTE 136 RT	287.5	1	1					1	BRIDGE END (B0008)
11.900	11.921	ROUTE 136 LT	25.0	1	1					1	BRIDGE END (B0008)
11.900	11.940	ROUTE 136 RT	125.0	1	1					1	BRIDGE END (B0008)
16.629	16.646	ROUTE 136 LT		1	1					1	BRIDGE END (A4786)
16.625	16.646	ROUTE 136 RT	25.0	1	1					1	BRIDGE END (A4786)
16.724	16.741	ROUTE 136 LT		1	1					1	BRIDGE END (A4786)
16.724	16.745	ROUTE 136 RT	25.0	1	1					1	BRIDGE END (A4786)
17.092	17.109	ROUTE 136 LT		1	1					1	BRIDGE END (A4661)
17.092	17.109	ROUTE 136 RT		1	1					1	BRIDGE END (A4661)
17.194	17.225	ROUTE 136 LT	75.0	1	1					1	BRIDGE END (A4661)
17.194	17.211	ROUTE 136 RT		1	1					1	BRIDGE END (A4661)
23.234	23.258	ROUTE 136 LT	37.5	1	1					1	BRIDGE END (A7934)
23.234	23.258	ROUTE 136 RT	37.5	1	1					1	BRIDGE END (A7934)
31.125	31.140	ROUTE 136 LT		1	1					1	BRIDGE END (A4570)
31.125	31.140	ROUTE 136 RT		1	1					1	BRIDGE END (A4570)
31.198	31.208	ROUTE 136 LT		1	1					1	BRIDGE END (A4570)
31.198	31.208	ROUTE 136 RT		1	1					1	BRIDGE END (A4570)
31.606	31.624	ROUTE 136 LT		1	1					1	BRIDGE END (A4571)
31.606	31.624	ROUTE 136 RT		1	1					1	BRIDGE END (A4571)
31.708	31.722	ROUTE 136 LT		1	1					1	BRIDGE END (A4571)
31.708	31.722	ROUTE 136 RT		1	1					1	BRIDGE END (A4571)
TOTAL			4987.5	24.0	40.0	125.0	2.0	2.0	2.0	40.0	

FULL DEPTH SHOULDERS										
LOG	LOG	LOC	WIDTH	LENGTH	LINEAR GRADING CLASS I	8" NRPCCP W/ 15' JOINTS	8" PAVED APPROACH	6" TYPE 5 AGGREGATE BASE	TYPE C INLET TOP 2'X2'	REMARKS
MILE	MILE		FT	FT	(STA.)	(SY)	(SY)	(SY)	(EACH)	
8.095	8.098	RT		15.84			20.0	20		COLVIN AVENUE
8.098	8.115	RT	5.5	89.76	0.9	54.9		55		
8.098	8.101	LT		15.84			17.0	17		
8.101	8.115	LT	5.5	73.92	0.7	45.2		45		
8.106		LT							1	
8.106		RT							1	
				TOTAL	1.6	100.1	37.0	137.0	2.0	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.										

James Wingert
2025.08.29 09:50:42-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
3

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

COLDMILLING (DEPTH TRANSITIONS)						
LOG	LOG	LOC	LENGTH	WIDTH	MODIFIED	REMARKS
MILE	MILE		FT	FT	DEPTH TRANSITION SY	
5.328	5.349	RT	20	110.88	246.4	I29 NB OFF RAMP
5.337	5.364	LT	20	142.56	316.8	I29 NB ON RAMP
5.379	5.409	RT	20	158.4	352.0	I29 EAST OUTER ROAD
5.425	5.443	LT	10	95.04	105.6	LIBERTY LANE
5.613	5.632	CL/LT/RT	100	38	422.2	END OF MILL/FILL
6.175	6.189	RT	10	73.92	82.1	GLIDER AVENUE
6.729	6.755	LT	20	137.28	305.1	ROUTE 275
7.053	7.072	CL/LT/RT	100	40	444.4	START OF MILL/FILL
7.843	7.853	RT	10	52.8	58.7	NEBRASKA STREET
7.874	7.883	RT	10	47.52	52.8	MARNER STREET
7.964	7.976	LT	20	63.36	140.8	MAIN STREET
7.964	7.976	LT	20	63.36	140.8	ROUTE 111
8.035	8.042	RT	10	36.96	41.1	WATER STREET
8.088	8.095	RT	10	36.96	41.1	COLVIN AVENUE
8.480	8.499	CL/LT/RT	100	28	311.1	END OF MILL/FILL
8.147	8.160	RT	10	68.64	76.3	COUNTRY CLUB DRIVE
8.217	8.232	LT	10	79.2	88.0	INDUSTRIAL ROAD
8.394	8.407	LT	10	68.64	76.3	INDUSTRIAL ROAD
8.710	8.726	RT	10	84.48	93.9	BURKE ROAD
9.345	9.362	RT	10	89.76	99.7	BURKE ROAD
9.860	9.883	LT	20	121.44	269.9	ROUTE Y
10.768	10.795	RT	20	142.56	316.8	ROUTE J
11.852	11.871	CL/LT/RT	100	28	311.1	BRIDGE END (B0008)
11.900	11.919	CL/LT/RT	100	28	311.1	BRIDGE END (B0008)
14.339	14.379	RT	20	211.2	469.3	ROUTE 59
15.248	15.267	CL/LT/RT	28	100.32	312.1	BEGIN MILL/FILL
15.528	15.540	RT	10	63.36	70.4	LOCUST STREET
15.720	15.725	RT	10	26.4	29.3	PINE STREET
15.762	15.771	LT	10	47.52	52.8	PINE STREET
15.752	15.771	CL/LT/RT	100	24	266.7	ROUTE 59 INTERSECTION
16.485	16.504	CL/LT/RT	100	24	266.7	ROUTE 59 INTERSECTION
16.486	16.493	LT	10	36.96	41.1	MAIN STREET
16.627	16.646	CL/LT/RT	100	28	311.1	BRIDGE END (A4660)
16.724	16.743	CL/LT/RT	100	28	311.1	BRIDGE END (A4660)
16.776	16.801	LT	20	132	293.3	ROUTE O
16.784	16.801	RT	10	89.76	99.7	Q AVENUE
16.901	16.920	CL/LT/RT	100	28	311.1	BRIDGE END (A4786)
16.986	17.005	CL/LT/RT	100	28	311.1	BRIDGE END (A4786)
17.090	17.109	CL/LT/RT	100	28	311.1	BRIDGE END (A4661)
17.194	17.213	CL/LT/RT	100	28	311.1	BRIDGE END (A4661)
21.831	21.857	RT	20	137.28	305.1	ROUTE N
22.835	22.861	LT	20	137.28	305.1	ROUTE M
23.193	23.212	CL/LT/RT	100	28	311.1	BRIDGE END (A7934)
23.234	23.253	CL/LT/RT	100	28	311.1	BRIDGE END (A7934)
25.866	25.893	LT	20	142.56	316.8	ROUTE YY
26.559	26.578	CL/LT/RT	100	28	311.1	BRIDGE END (A8449)
26.606	26.625	CL/LT/RT	100	28	311.1	BRIDGE END (A8449)
29.994	30.019	LT	20	132	293.3	ROUTE KK
30.247	30.274	RT	20	142.56	316.8	ROUTE PP
31.121	31.140	CL/LT/RT	100	28	311.1	BRIDGE END (A4570)
31.198	31.217	CL/LT/RT	100	28	311.1	BRIDGE END (A4570)
31.605	31.624	CL/LT/RT	100	28	311.1	BRIDGE END (A4571)
31.708	31.727	CL/LT/RT	100	28	311.1	BRIDGE END (A4571)
32.741	32.760	CL/LT/RT	100	28	311.1	BEGIN MILL/FILL
33.799	33.818	CL/LT/RT	100	28	311.1	END MILL/FILL
33.122	33.129	LT	10	36.96	41.1	MANNING STREET
33.198	33.211	LT	10	68.64	76.3	BLANCHE STREET
33.232	33.245	LT	10	68.64	76.3	PARK STREET
33.372	33.387	LT	10	79.2	88.0	OAK STREET
33.435	33.445	LT	10	52.8	58.7	FILMORE STREET
35.112	35.131	CL/LT/RT	100	28	311.1	END PROJECT
			2	VAR.	728.0	78 ENTRANCES
TOTAL					14499.7	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.						

DRAIN FLUME			
LOG MILE	LOC	DRAIN FLUME (EACH)	REMARKS
31.140	LT	1	BRIDGE A4570
31.140	RT	1	BRIDGE A4570
31.198	LT	1	BRIDGE A4570
31.198	RT	1	BRIDGE A4570
31.624	LT	1	BRIDGE A4571
31.624	RT	1	BRIDGE A4571
31.708	LT	1	BRIDGE A4571
31.708	RT	1	BRIDGE A4571
TOTAL		8	
LOG MILES ARE APPROXIMATE.			
EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.			

TEMPORARY PAVEMENT MARKING							
LOG MILE	LOG MILE	LOCATION	TEMPORARY REMOVABLE MARKING TAPE			PAVEMENT MARKING REMOVAL (LF)	REMARKS
			4" WHITE (L.F.)	4" YELLOW (L.F.)	24" WHITE (L.F.)		
7.921	8.016	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
8.016	8.235	ROUTE 136				1159	EXISTING CENTERLINE
8.016		ROUTE 136 RT			12	12	STOP BAR
8.058	8.193	ROUTE 136	1426.0			1426	EDGE LINE
8.235		ROUTE 136 LT			12	12	STOP BAR
8.235	8.330	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
11.677	11.772	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
11.772	11.999	ROUTE 136				1201	EXISTING CENTERLINE
11.772		ROUTE 136 RT			12	12	STOP BAR
11.814	11.957	ROUTE 136	1508.0			1508	EDGE LINE
11.999		ROUTE 136 LT			12	12	STOP BAR
11.999	12.094	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
30.946	31.041	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
31.041	31.297	ROUTE 136				1354	EXISTING CENTERLINE
31.041		ROUTE 136 RT			12	12	STOP BAR
31.083	31.255	ROUTE 136	1814.0			1814	EDGE LINE
31.297		ROUTE 136 LT			12	12	STOP BAR
31.297	31.392	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
31.430	31.525	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
31.525	31.807	ROUTE 136				1491	EXISTING CENTERLINE
31.525		ROUTE 136 RT			12	12	STOP BAR
31.567	31.765	ROUTE 136	2089.0			2089	EDGE LINE
31.807		ROUTE 136 LT			12	12	STOP BAR
31.807	31.902	ROUTE 136		1000.0		1000	DOUBLE YELLOW CENTERLINE
TOTAL			6837.0	8000.0	96.0	20138.0	
USE			6837	8000	96	20138	
SEE PAVEMENT MARKING LOG JSP							

James Wingert
2025.08.29 09:51:30-05'00'



James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
136

STATE
MO

DISTRICT
NW

SHEET NO.
3

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION						
DATE						

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



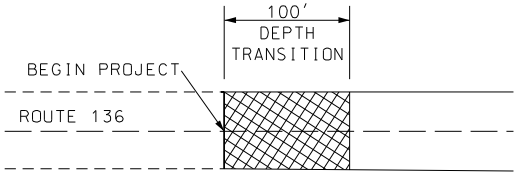
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



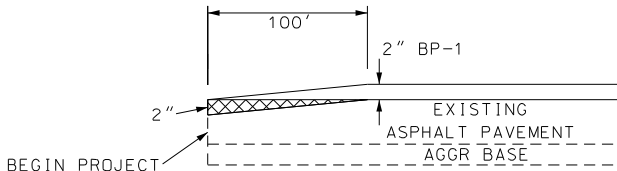
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

BEGIN PROJECT

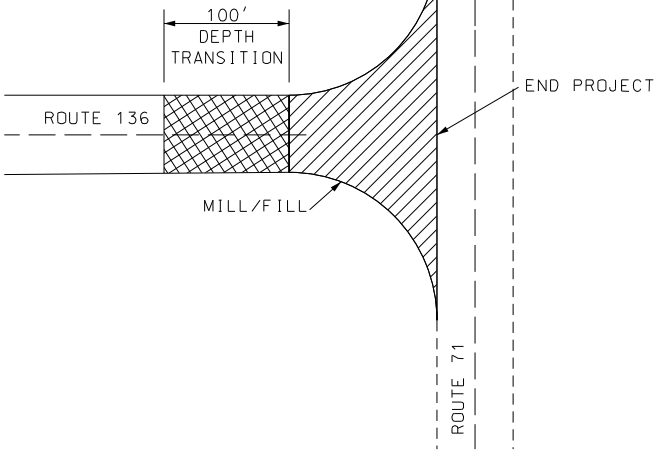


PLAN VIEW AT RTE 136

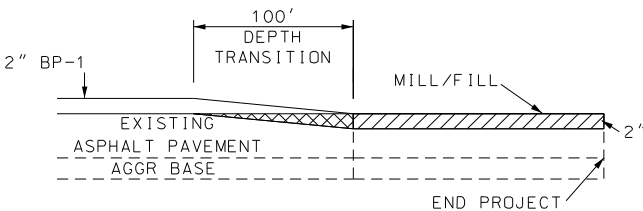


TYPICAL
RTE 136

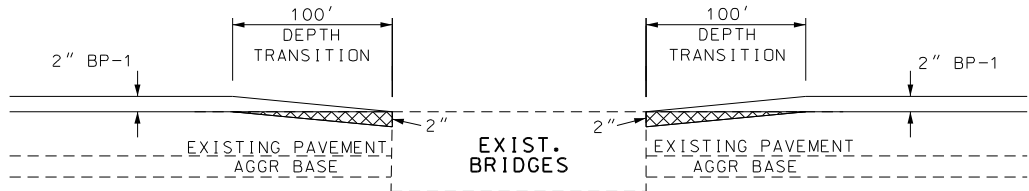
END PROJECT



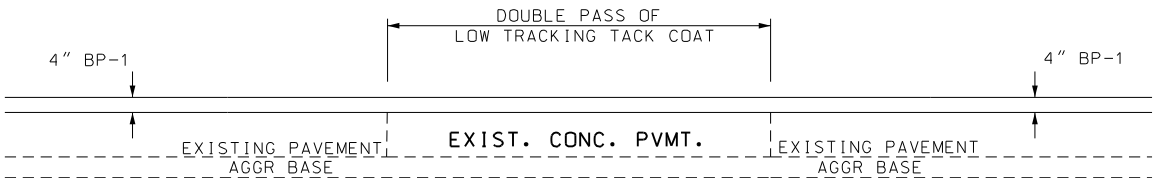
PLAN VIEW AT RTE 136



TYPICAL
RTE 136



TYPICAL AT BRIDGE ENDS



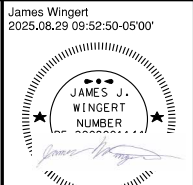
TYPICAL AT EXISTING CONCRETE PAVEMENT

- OVERLAY
- MODIFIED COLDMILLING

LOG MILE LOCATIONS APPROXIMATE
ADJUST AS DIRECTED BY ENGINEER
TO FIT FIELD CONDITIONS.

DRAWING NOT TO SCALE

SPECIAL SHEET
1 OF 9



JAMES J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE 136 STATE MO
DISTRICT NW SHEET NO. 4

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

PROJECT NO.

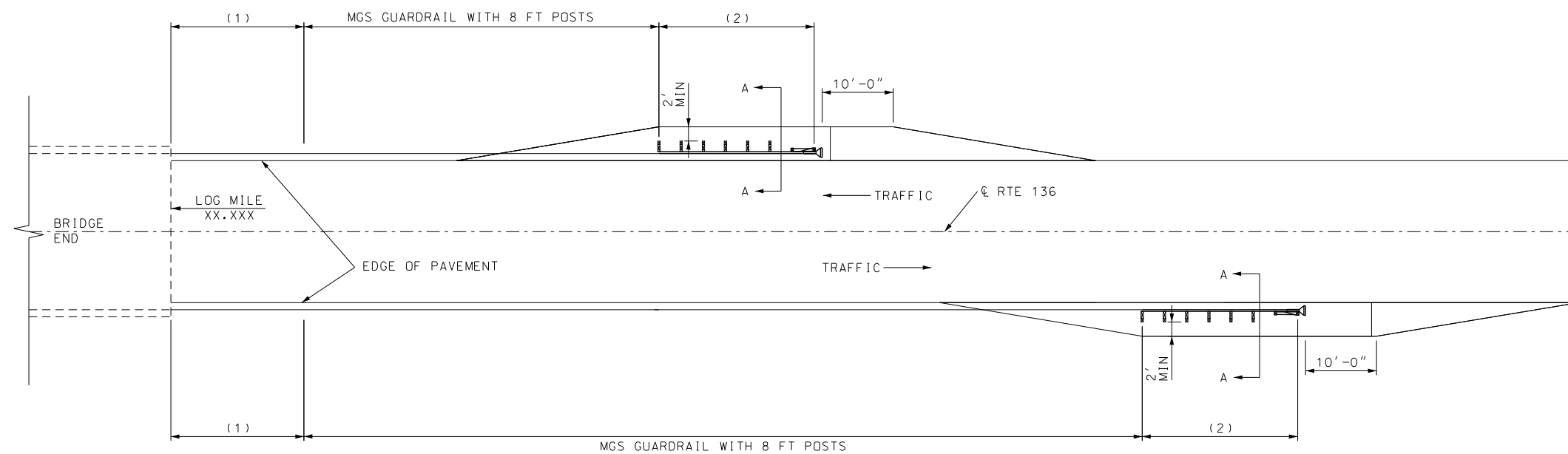
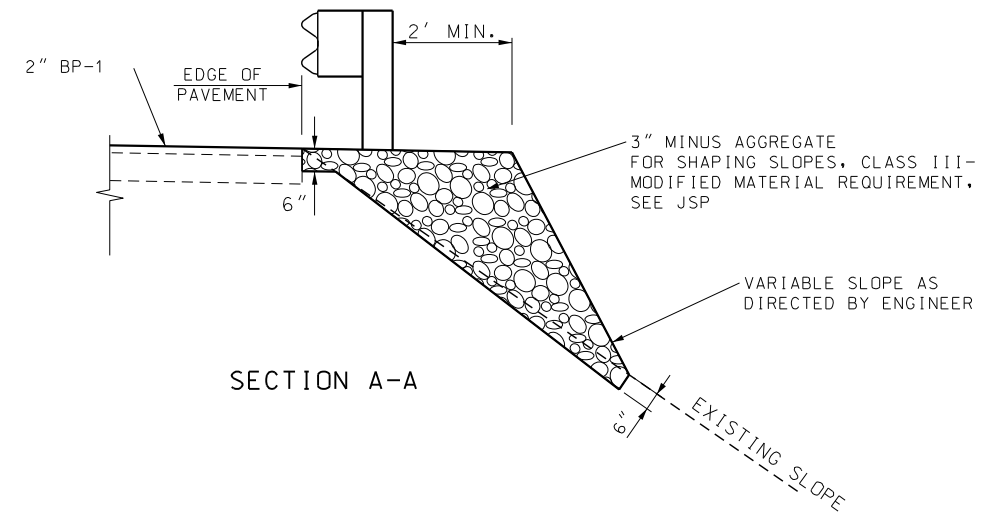
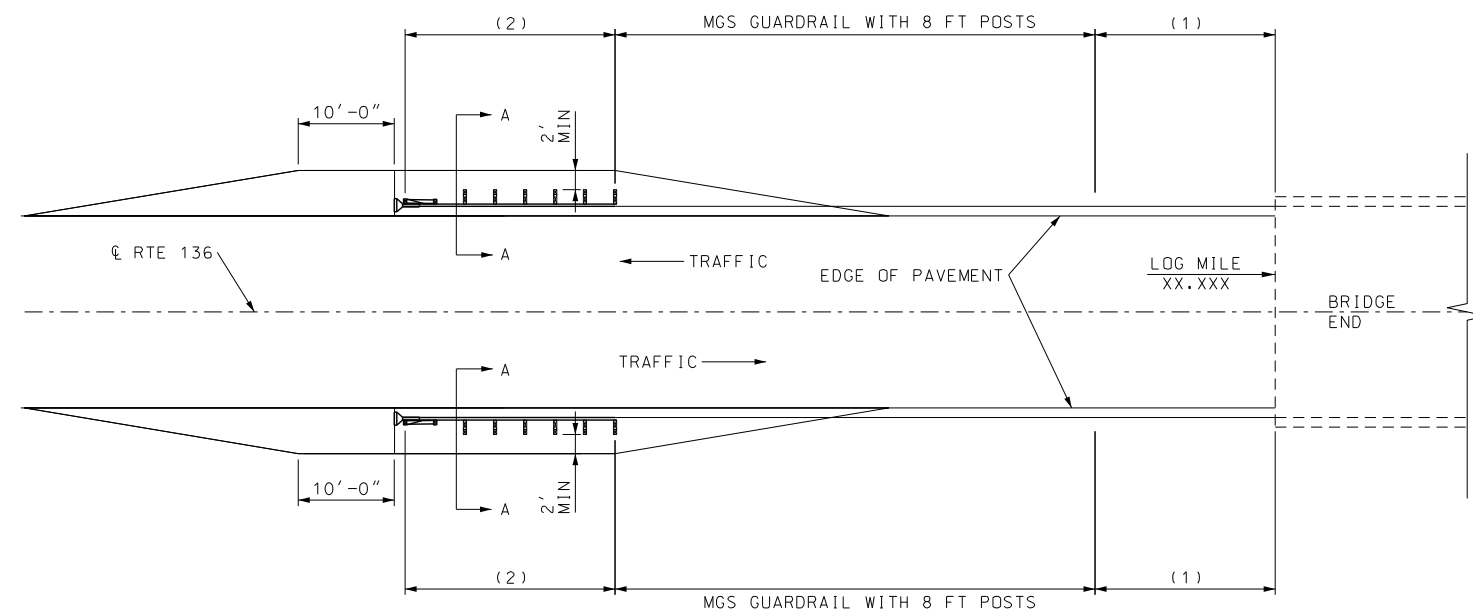
BRIDGE NO.

DESCRIPTION	DATE

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

olsson
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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



TYPICAL GUARDRAIL AND GRADING LIMITS

- (1) MGS BRIDGE APPROACH TRANSITION
(2) TYPE A CRASHWORTHY END TERMINAL (MASH)

NOTES:

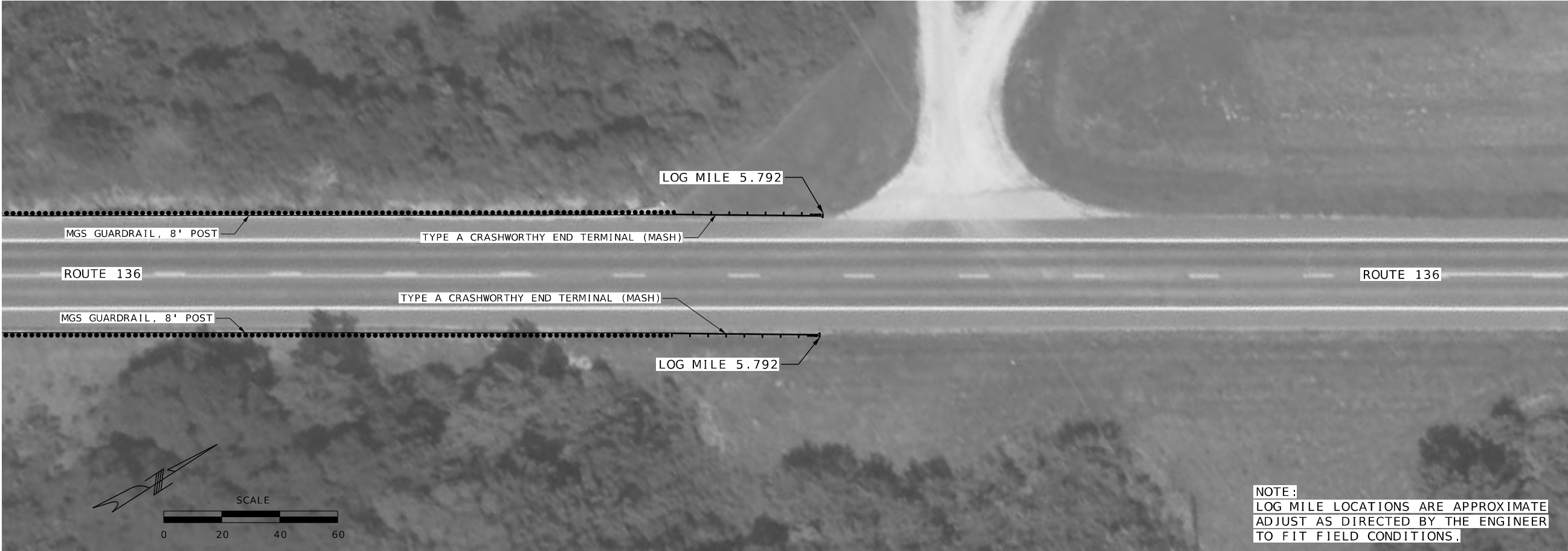
1. SEE STD 606.81 FOR GRADING LIMITS
OF SHAPING SLOPES CLASS III-MODIFIED MATERIAL REQUIREMENTS.
2. SHAPING SLOPES CLASS III-MODIFIED MATERIAL REQUIREMENTS
SHALL BE PAID FOR AS 2159910 SHAPING SLOPES CLASS III -
MODIFIED MATERIAL REQUIREMENTS, PER 100 FT.

LOG MILE LOCATIONS APPROXIMATE.
ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS

DRAWING NOT TO SCALE

SPECIAL SHEET
3 OF 9

James Wingert 2025.08.29 09:54:18-05'00'				IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.
JAMES J. WINGERT-ENGINEER MO# PE-2009001144		DATE PREPARED 8/27/2025		
ROUTE 136		STATE MO		
DISTRICT NW		SHEET NO. 6		
COUNTY ATCHISON & NODAWAY				
JOB NO. JNW0021				
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)		
		olsson 1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116 PHONE: 816.361.1177 CERTIFICATE OF AUTHORITY NO. 001592		



SPECIAL SHEET
SHEET 4 OF 9

James Wingert
2025.08.29 09:56:09-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
136

STATE
MO

DISTRICT
NW

SHEET NO.
7

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

PROJECT NO.

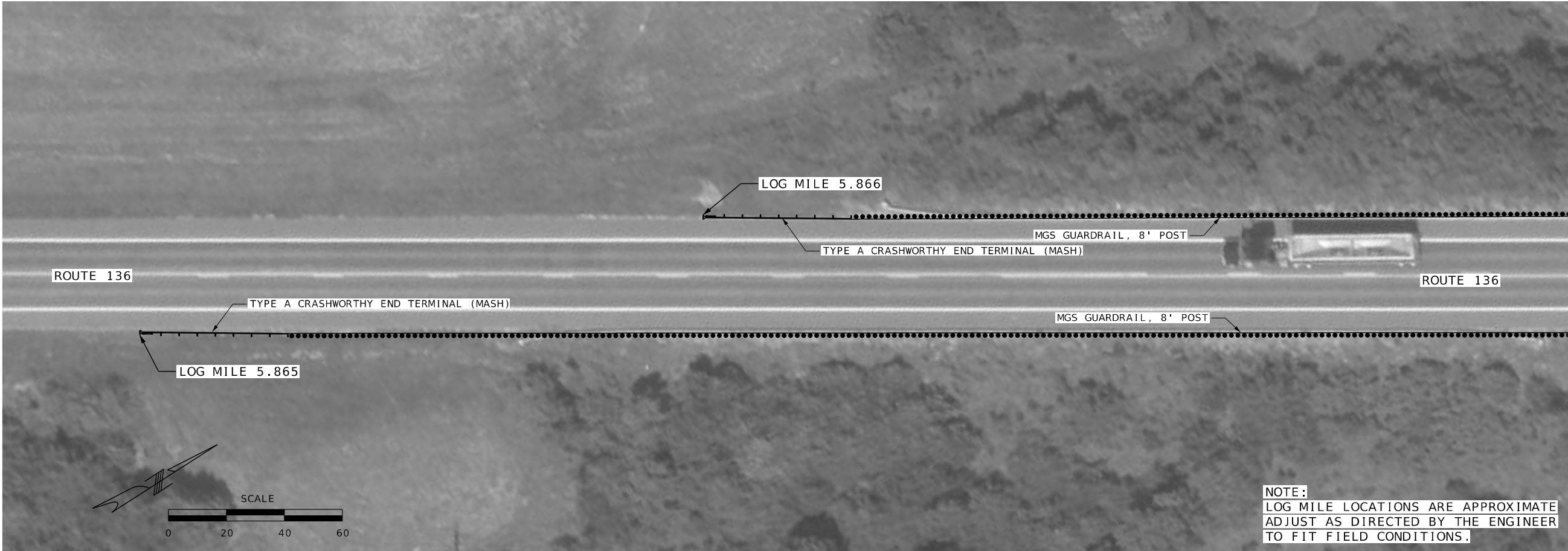
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592



SPECIAL SHEET
SHEET 5 OF 9

James Wingert
2025.08.29 09:48:36-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
8

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

F:\2025\01501-02000\025-01631\40-Design\Microstation\JNW0021\plan_sheets\07 Special Sheets\004_SS_04-07_JNW0021_120.dgn 4:30:35 PM 8/27/2025



SPECIAL SHEET
SHEET 6 OF 9

James Wingert
2025.08.29 09:57:03-05'00'

JAMES J. WINGERT
ENGINEER
NUMBER
MO# PE-2009001144

JAMES J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED 8/27/2025	
ROUTE 136	STATE MO
DISTRICT NW	SHEET NO. 9
COUNTY ATCHISON & NODAWAY	
JOB NO. JNW0021	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

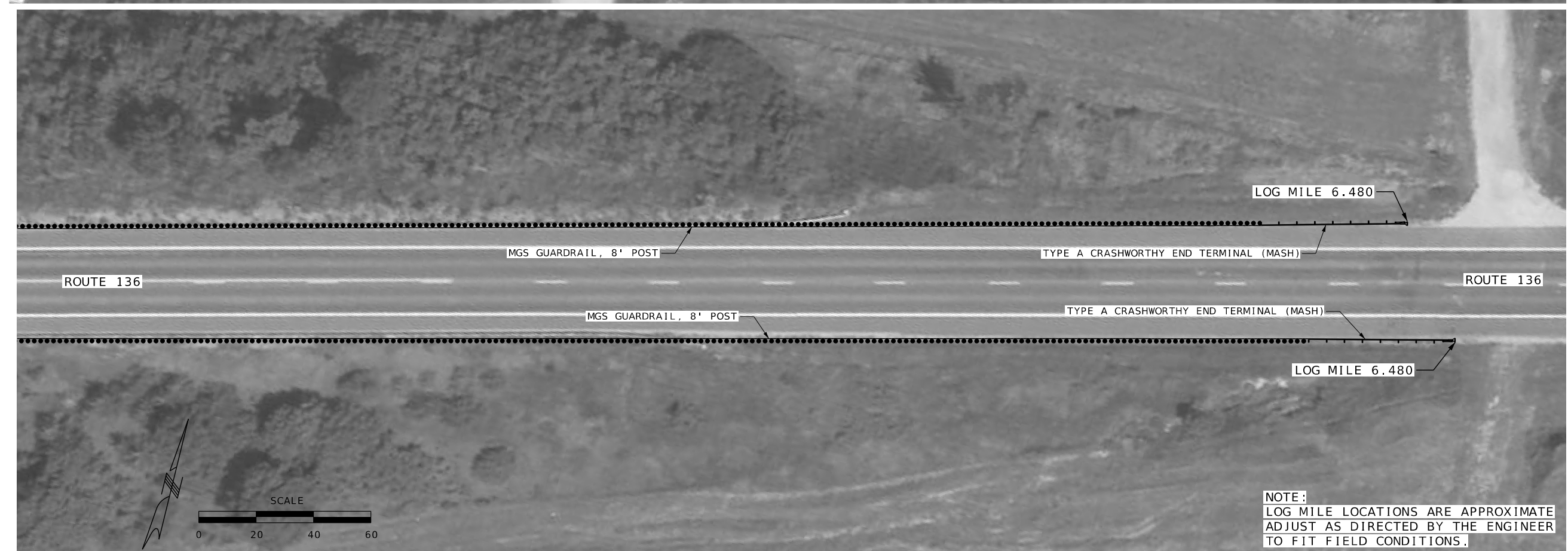
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

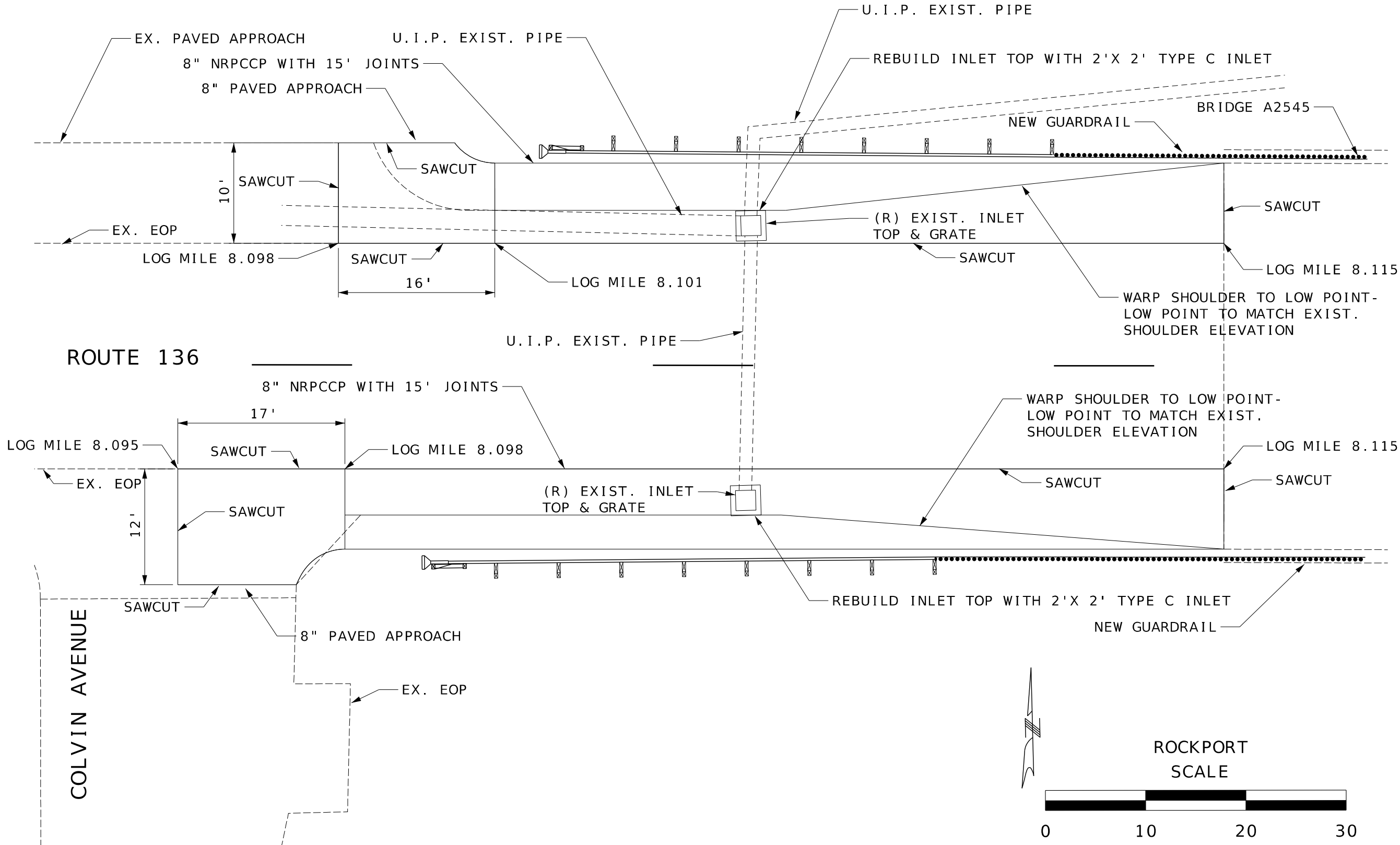
olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

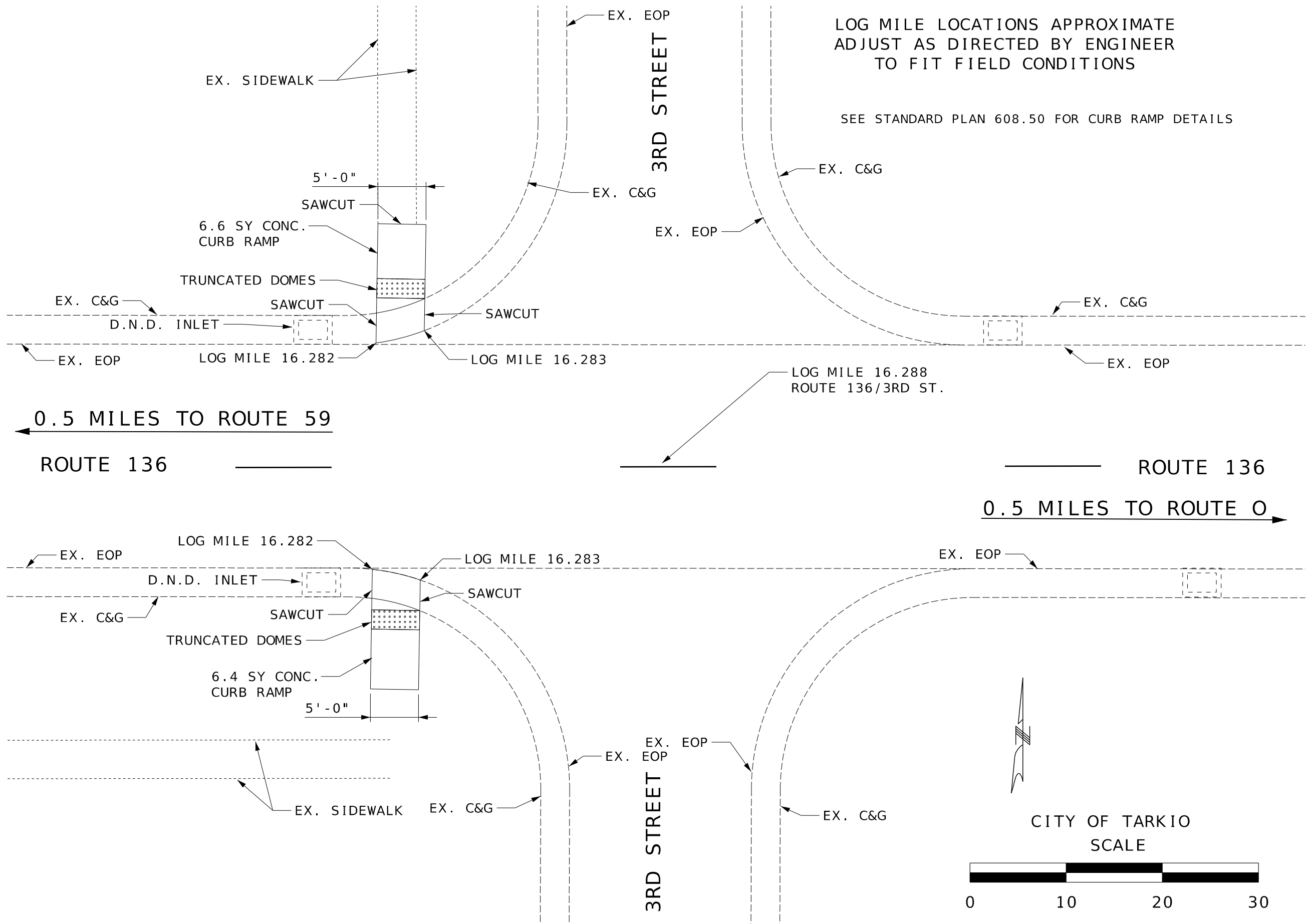


James Wingert 2025.08.29 09:58:34-05'00'	
JAMES J. WINGERT—ENGINEER MO# PE-2009001144	
DATE PREPARED 8/27/2025	
ROUTE 136	STATE MO
DISTRICT NW	SHEET NO. 10
COUNTY ATCHISON & NODAWAY	
JOB NO. JNW0021	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
Olsson 1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116 PHONE: 816.361.1177 CERTIFICATE OF AUTHORITY NO. 001592	

LOG MILE LOCATIONS APPROXIMATE
ADJUST AS DIRECTED BY ENGINEER
TO FIT FIELD CONDITIONS



SPECIAL SHEET
SHEET 8 OF 9



James Wingert
2025.08.29 09:59:42-05'00'

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/28/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
12

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

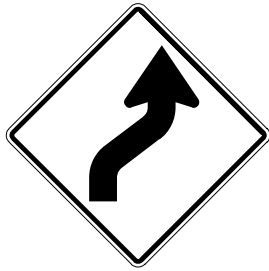
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

SPECIAL SHEET
SHEET 9 OF 9



WD1-4R
(15)



WD3-5
(50)



R10-6L
(47)

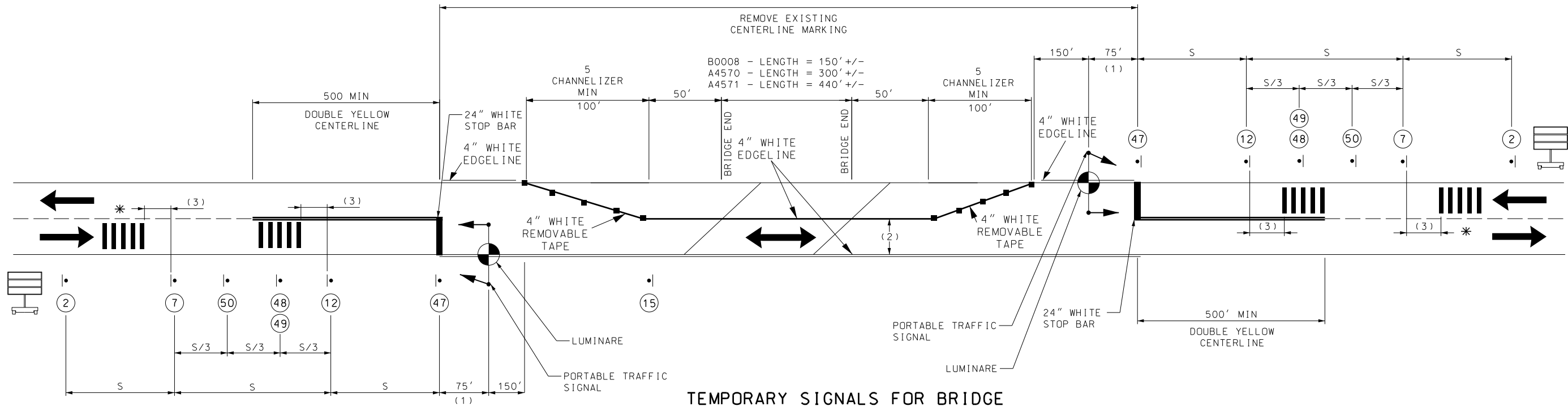


R2-1
(48)



G020-5aP
(49)

SPEED	SIGN SPACING (FT)	
	UNDIVIDED (S)	DIVIDED (S)
PERMANENT POSTED (MPH)		
0-35	200	-
40-45	350	-
50-55	500	-
60-70	1000	-



TEMPORARY SIGNALS FOR BRIDGE
BRIDGE B0008 - LM 11.871
BRIDGE A4570 - LM 31.140
BRIDGE A4571 - LM 31.624

TRAFFIC CONTROL LEGEND

- - SIGN (SINGLE SIDED)
- - CHANGEABLE MESSAGE BOARD
- - CHANNELIZER
- - PORTABLE TRAFFIC SIGNAL AND LUMINAIRE
- - TEMPORARY LONG-TERM RUMBLE STRIPS
- - TRUCK MOUNTED ATTENUATOR (TMA) (NO DIRECT PAY)
- - ADVANCE WARNING RAIL SYSTEM
- - LONG-TERM SPACING EXAMPLE

NOTES:

- (1) 75' RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40' AND 150'.
 - (2) DRIVING LANE SHALL BE AT LEAST 10' IN WIDTH.
- RELOCATE PORTABLE TRAFFIC SIGNALS AS REQUIRED AT NO DIRECT PAY.
 - EXISTING CONFLICTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS BETWEEN THE ACTIVITY AREA AND THE STOP LINE SHALL BE REMOVED. AFTER THE TEMPORARY TRAFFIC CONTROL SIGNAL IS REMOVED, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.
 - REFER TO STANDARD PLAN SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.
 - THE CONTRACTOR SHALL PROVIDE TMA AT NO DIRECT PAY

TEMP. LONG-TERM RUMBLE STRIPS		
SPEED MPH	DISTANCE (3)	SPACING (4)
0-45 (OPTIONAL)	120 FT	10-12 FT
50-55	160 FT	10-12 FT
60-70	200 FT	10-12 FT
* SECOND SET OF TEMPORARY RUMBLES OPTIONAL		



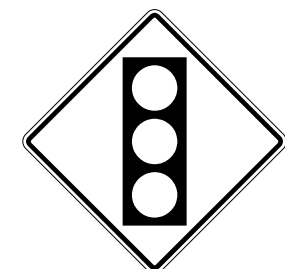
WD20-1
(2)



BRIDGE
OR
RAMP



WD20-4
(7)



WD3-3
(12)

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

TRAFFIC CONTROL
1 OF 1

James Wingert
2025.08.29 10:00:24-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
136

DISTRICT
NW

STATE
MO

SHEET NO.
13

COUNTY
ATCHISON & NODAWAY

JOB NO.
JNW0021

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

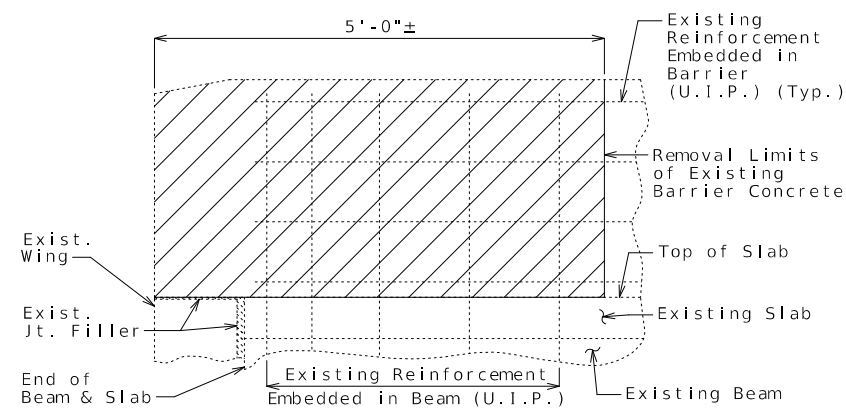
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

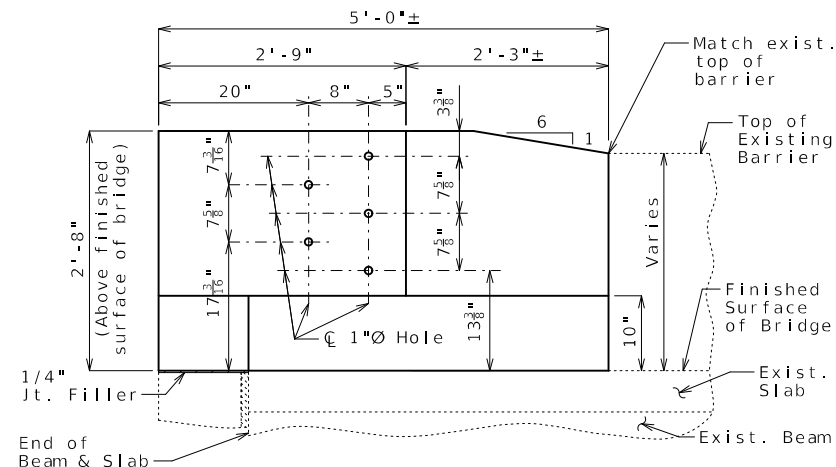
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

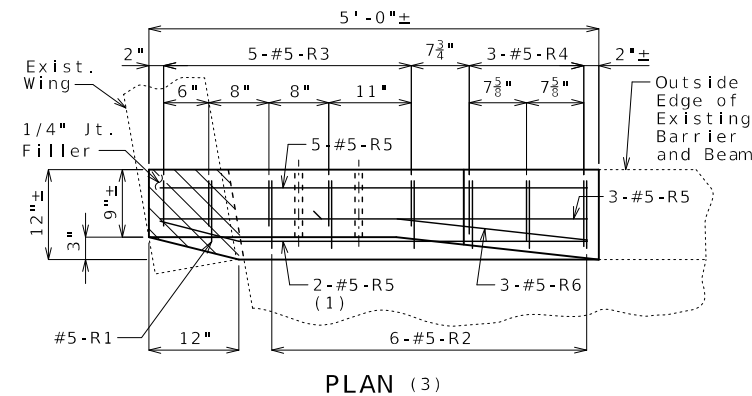
U.I.P. & REHABILITATE EXISTING (40', 70', 40') SIMPLE PRESTRESSED
CONCRETE CORED SLAB & BOX BEAM SPANS



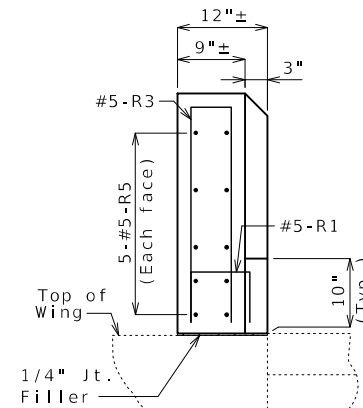
PART ELEVATION SHOWING CONCRETE REMOVAL



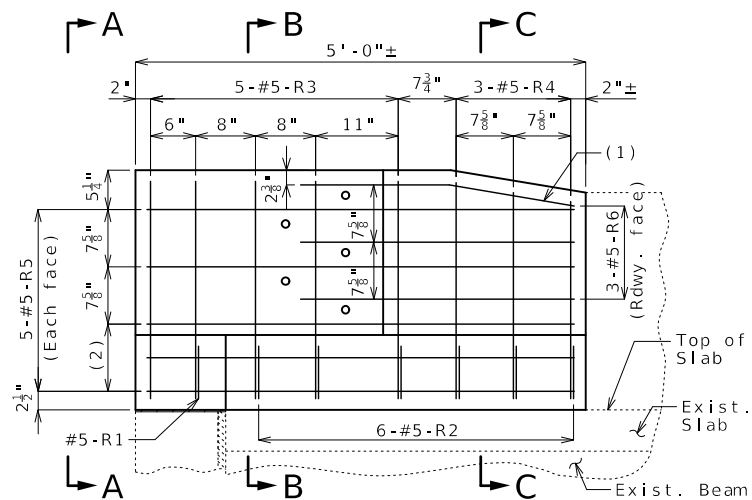
ELEVATION



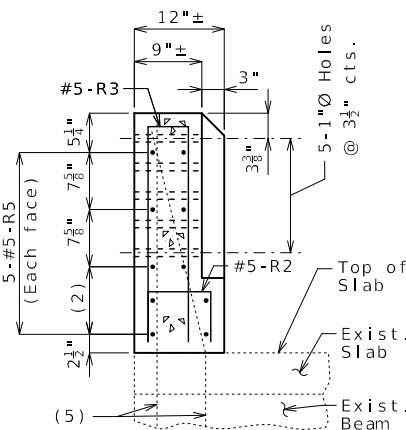
PLAN (3)



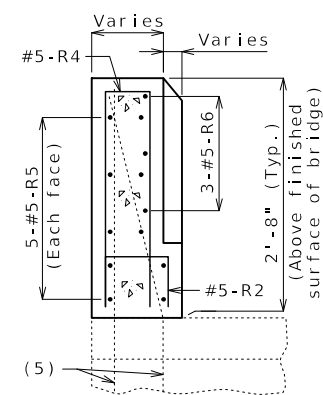
ELEVATION A-A



ELEVATION SHOWING REINFORCEMENT (3)



SECTION B-B (4)



SECTION C-C (4)

Estimated Quantities	
Item	Total
Barrier End Modification	4

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Unit Stresses:
Class B-1 Concrete $f'_c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2",
unless otherwise shown.

Miscellaneous:
One lane of traffic shall remain open during construction. See roadway plans for traffic control.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise shown.

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

All reinforcement in barrier end modification shall be epoxy coated.

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

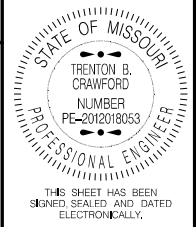
The area exposed by the removal of concrete and not covered with new concrete shall be coated with a qualified special mortar in accordance with Sec 704.

Cost of removing existing barrier concrete, and cost of furnishing and installing new concrete, new reinforcing steel, and any other work incidental to the barrier end modification, complete in place, will be considered completely covered by the contract unit price for Barrier End Modification.

REPAIRS TO BRIDGE:
ROUTE 136 OVER COW CREEK

ROUTE 136 FROM ROUTE J TO ROUTE 59
ABOUT 1.1 MILES EAST OF ROUTE J
BEGINNING STATION 99+89.67± (MATCH EXISTING)

BEGINNING STATION 99+89.67± (MATCH EXISTING)



DATE PREPARED

ROUTE	STATE
136	MO

DISTRICT BR	SHEET NO. 1
-----------------------	-----------------------

COUNTY
ATCHISON

JNW0021

CONTRACT ID.

PROJECT NO.

BRIDGE NO.	B00081
------------	--------

DESCRIPTION

DATE _____

MISSOURI HIGHWAYS AND TRANSPORTATION



DESIGN DESIGNATION

A.A.D.T. - 2026 = 5840
A.A.D.T. - 2046 = 7100
D.H.V. = 10%
T = 19%
V = 25-60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

NO RIGHT OF WAY TO BE ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

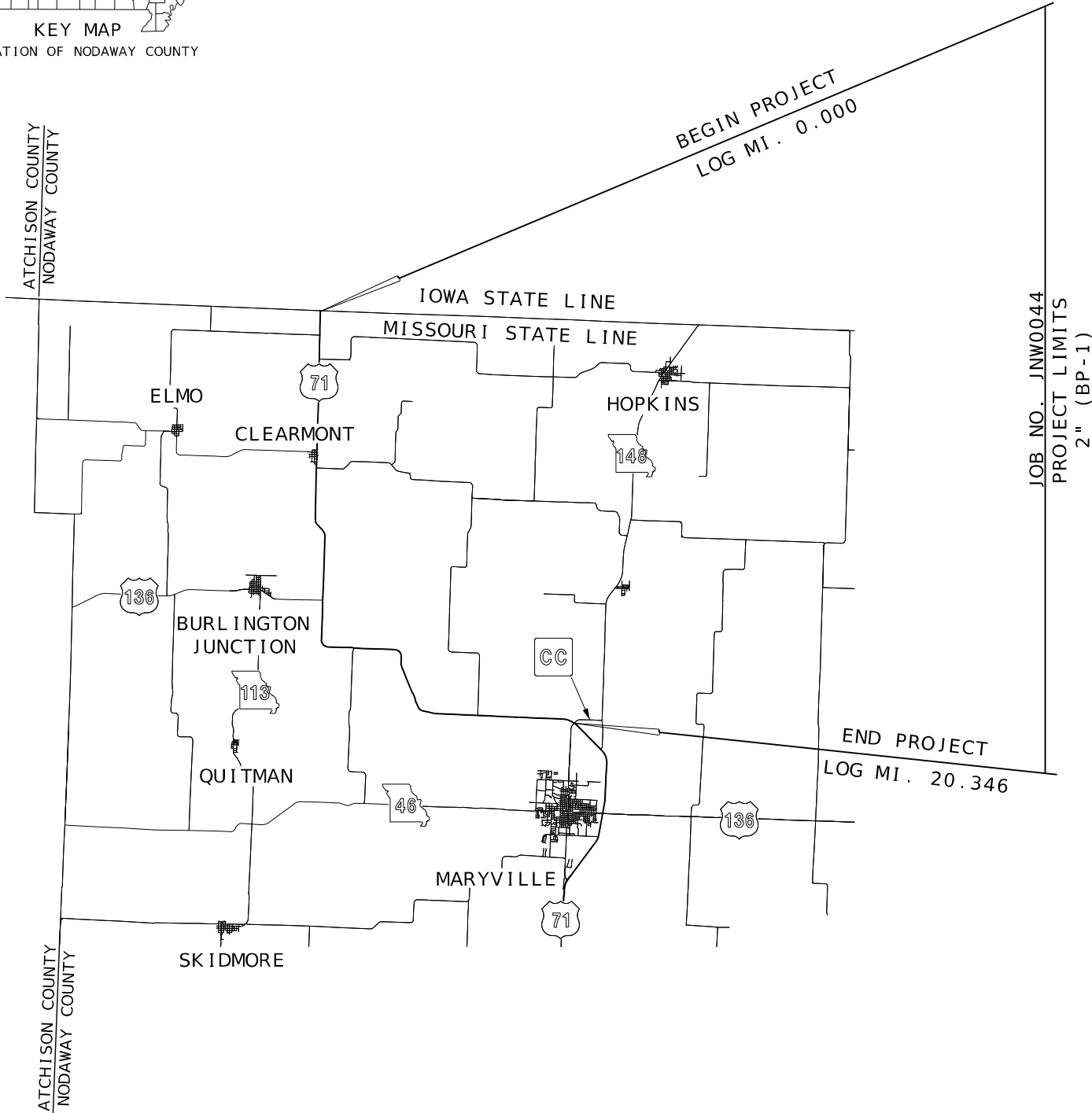
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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



KEY MAP
LOCATION OF NODAWAY COUNTY



NOT TO SCALE

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (5 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-6
TRAFFIC CONTROL SHEETS (TC)-----	7
BRIDGE DRAWINGS (B)	
B01031-----	1-2

LENGTH OF PROJECT	
BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 20.346
APPARENT LENGTH	107426.88 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A4468	
LOG MILE 1.371	427.68 FEET
LOG MILE 1.452	
BRIDGE A4669	
LOG MILE 5.297	227.04 FEET
LOG MILE 5.340	
BRIDGE B0103	
LOG MILE 18.227	137.28 FEET
LOG MILE 18.253	
TOTAL CORRECTIONS	792.00 FEET
NET LENGTH OF PROJECT	106634.88 FEET
STATE LENGTH	20.196 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0 ACRES

James Wingert
2025.08.29 10:06:27-05'00'

JAMES J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
71

DISTRICT
NW

STATE
MO

SHEET NO.
1

COUNTY
NODAWAY

JOB NO.
JNW0044

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

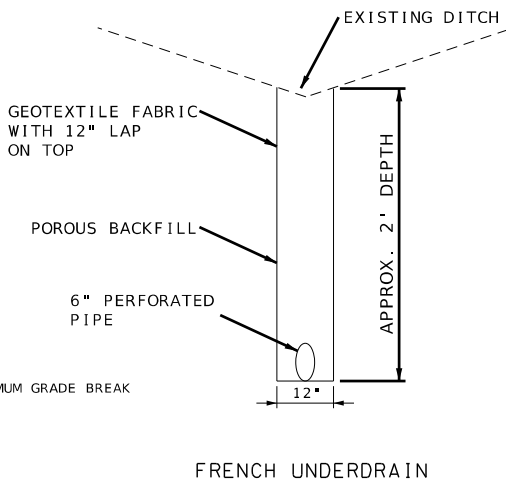
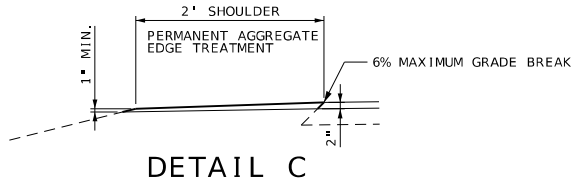
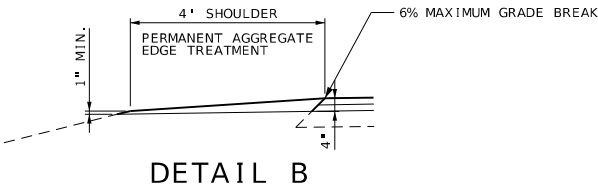
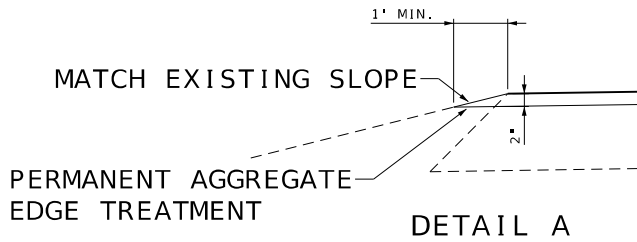
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

- NOTES:
1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
 2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
 3. EXISTING TYPICALS ARE FOR INFORMATION ONLY. PAVEMENT LAYERS MAY VARY FROM TYPICALS.
 4. LOG MILE LOCATIONS APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.

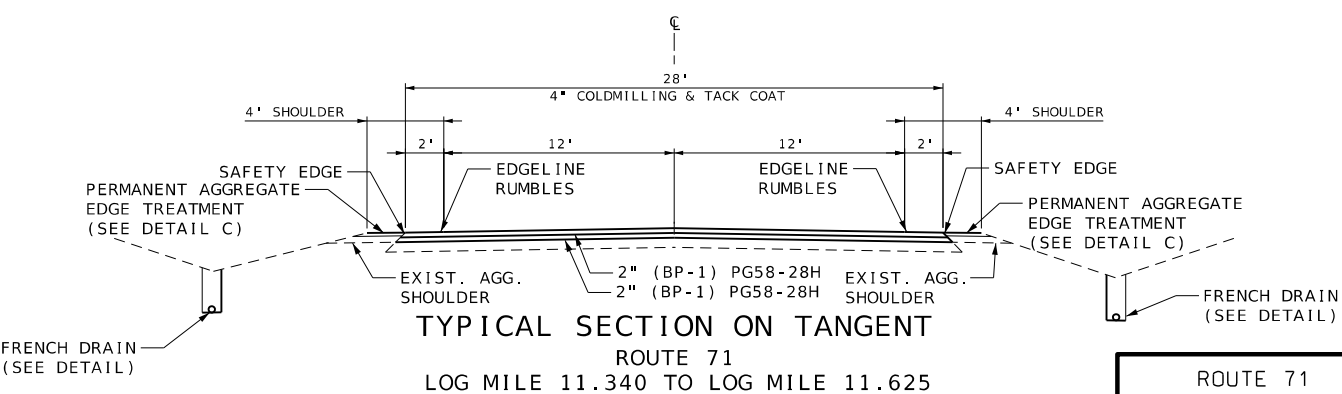
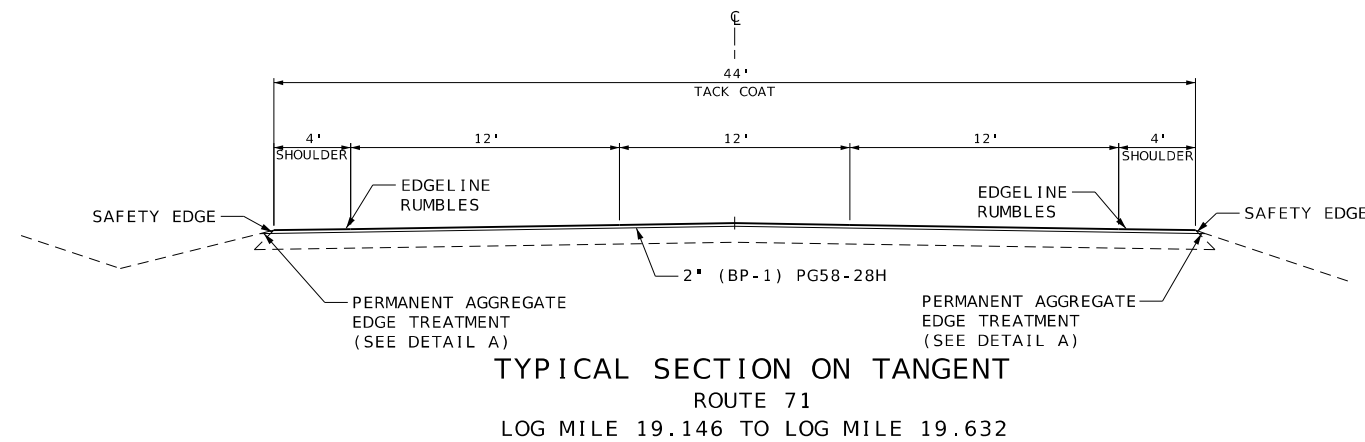
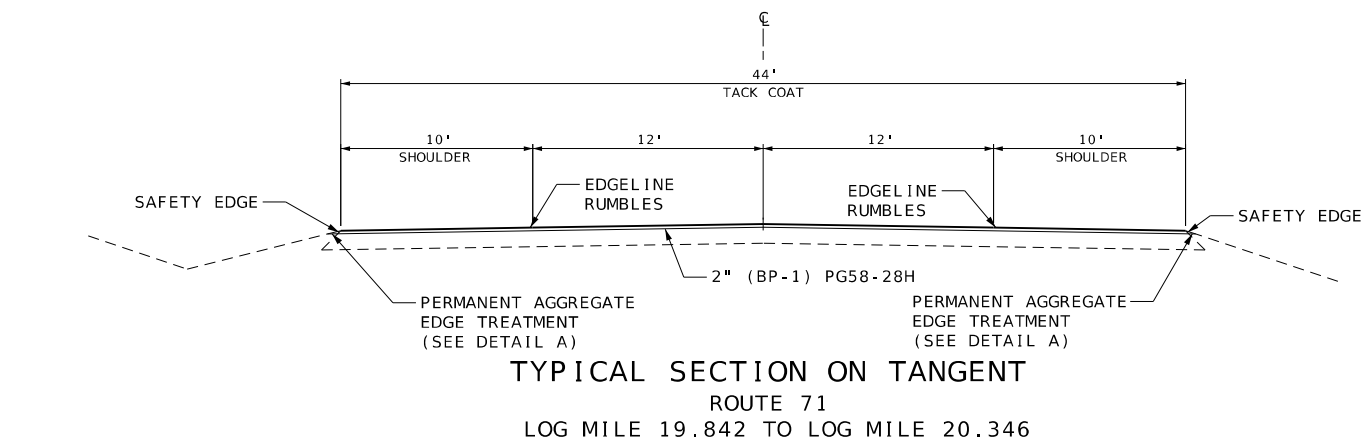
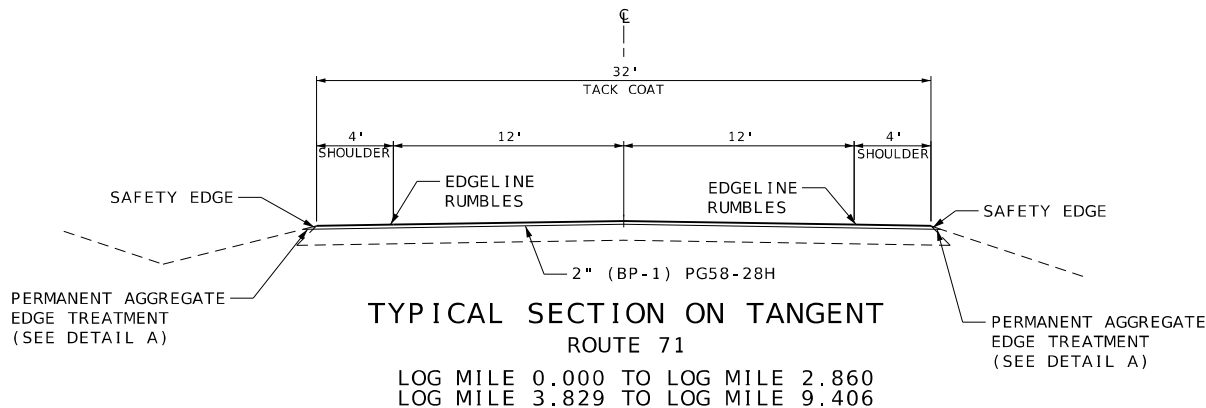
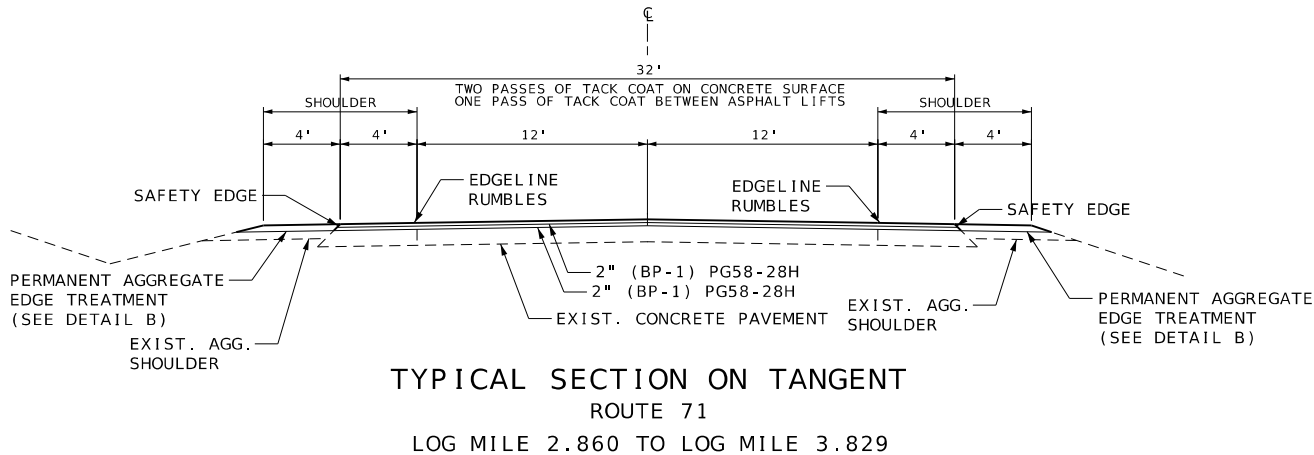
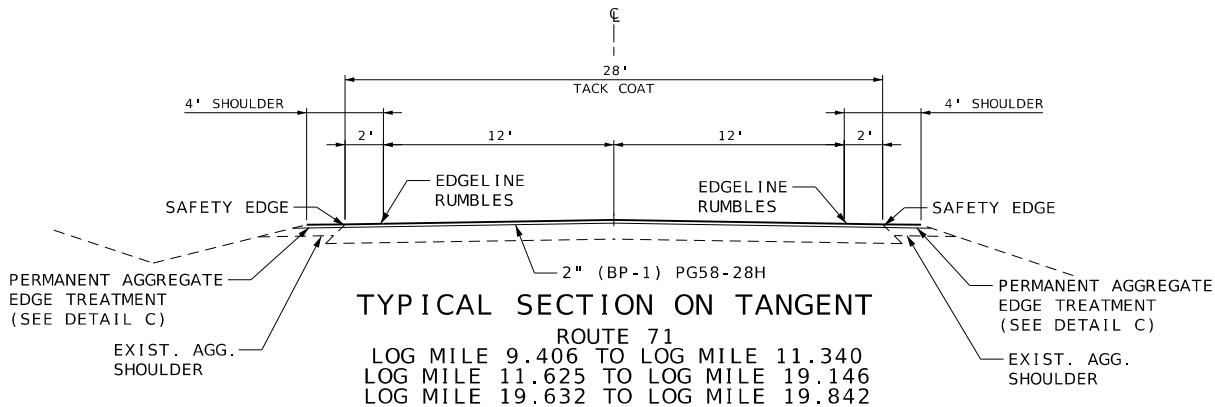
BRIDGE EXCEPTION (A4468)
LOG MILE 1.371 TO LOG MILE 1.452

BRIDGE EXCEPTION (A4469)
LOG MILE 5.297 TO LOG MILE 5.340

BRIDGE EXCEPTION (B0103)
LOG MILE 18.227 TO LOG MILE 18.253



ESTIMATE FACTORS*	
MATERIAL	TONS/C.Y.
2" BP-1 PG58-28H	1.960
IRREGULARITIES 16 TON/MILE	
MILLING TRANSITION 1" PER 50'	
TACK COAT APPLICATION RATE	
0.10 GAL/YD' (UNDILUTED)	
PERMANENT AGGREGATE EDGE TREATMENT	
1.40 TON/CY	
* FOR INFORMATION PURPOSES ONLY	



DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

ROUTE 71
TYPICAL SHEET
1 OF 1

James Wingert
2025.09.04 14:23:32-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
71

DISTRICT
NW

COUNTY
NODAWAY

JOB NO.
JNW0044

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

REMOVAL OF IMPROVEMENTS			
LOG MILE	LOG MILE	LOCATION	DESCRIPTION
1.347	1.371	ROUTE 71 LT	125' GUARDRAIL
1.347	1.371	ROUTE 71 RT	125' GUARDRAIL
1.371		ROUTE 71 LT	18 SY CONCRETE DRAIN FLUME
1.371		ROUTE 71 RT	18 SY CONCRETE DRAIN FLUME
1.452		ROUTE 71 LT	18 SY CONCRETE DRAIN FLUME
1.452		ROUTE 71 RT	18 SY CONCRETE DRAIN FLUME
1.452	1.476	ROUTE 71 LT	125' GUARDRAIL
1.452	1.476	ROUTE 71 RT	125' GUARDRAIL
5.273	5.297	ROUTE 71 LT	125' GUARDRAIL
5.273	5.297	ROUTE 71 RT	125' GUARDRAIL
5.297		ROUTE 71 LT	18 SY CONCRETE DRAIN FLUME
5.297		ROUTE 71 RT	18 SY CONCRETE DRAIN FLUME
5.340		ROUTE 71 LT	18 SY CONCRETE DRAIN FLUME
5.340		ROUTE 71 RT	18 SY CONCRETE DRAIN FLUME
5.340	5.364	ROUTE 71 LT	125' GUARDRAIL
5.340	5.364	ROUTE 71 RT	125' GUARDRAIL
7.980	8.004	ROUTE 71 RT	125' GUARDRAIL
7.990	8.018	ROUTE 71 LT	250' GUARDRAIL
11.340		ROUTE 71 LT	2' SAWCUT
11.340	11.625	ROUTE 71 LT	1505' SAWCUT
11.340	11.625	ROUTE 71 LT	334 SY PAVEMENT
11.625		ROUTE 71 LT	2' SAWCUT
11.340		ROUTE 71 RT	2' SAWCUT
11.340	11.625	ROUTE 71 RT	1505' SAWCUT
11.340	11.625	ROUTE 71 RT	334 SY PAVEMENT
11.625		ROUTE 71 RT	2' SAWCUT
1 LUMP SUM			

PAVEMENT MARKING							
LOG MILE	LOG MILE	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)		PREFORMED THERMOPLASTIC		REMARKS
			6" WHITE (L.F.)	6" YELLOW (L.F.)	24" SOLID YELLOW (L.F.)	LEFT/RIGHT ARROWS (EA)	
0.000	19.146	ROUTE 71		202181.8			DOUBLE YELLOW
0.000	19.146	ROUTE 71	202181.8				EDGE LINES
19.146	19.632	ROUTE 71	5132.2				EDGE LINES
19.146	19.632	ROUTE 71		4445.5			DOUBLE YELLOW
19.146	19.632	ROUTE 71	606.5				LANE LINES
19.146	19.632	ROUTE 71			261	4	LEFT TURN LANE
19.632	20.346	ROUTE 71		7539.8			DOUBLE YELLOW
19.632	20.346	ROUTE 71	7539.8				EDGE LINES
TOTAL			215460.3	214167.1	261	4	
USE			215460	214167	261	4	
SEE PAVEMENT MARKING LOG JSP							

MGS GUARDRAIL								
LOG MILE	LOG MILE	LOCATION	MGS			TYPE A CRASHWORTHY END TERMINAL (MASH) (EA.)	MODIFIED SHAPING SLOPES CLASS III (100 FT)	REMARKS
			GUARDRAIL 8 FT POST	BRIDGE APPROACH TRANSITION	LONG SPAN GUARDRAIL SYSTEM			
			(L.F.)	(EA.)	(EA)			
1.347	1.371	ROUTE 71 LT	37.5	1		1	1	
1.347	1.371	ROUTE 71 RT	37.5	1		1	1	
1.452	1.476	ROUTE 71 LT	37.5	1		1	1	
1.452	1.476	ROUTE 71 RT	37.5	1		1	1	
5.273	5.297	ROUTE 71 LT	37.5	1		1	1	
5.273	5.297	ROUTE 71 RT	37.5	1		1	1	
5.340	5.364	ROUTE 71 LT	37.5	1		1	1	
5.340	5.364	ROUTE 71 RT	37.5	1		1	1	
7.975	8.018	ROUTE 71 RT	25.0		1	2	2	
7.975	8.018	ROUTE 71 LT	25.0		1	2	2	
TOTAL			350.0	8.0	2.0	12	12	

COLDMILLING							
LOG MILE	LOG MILE	LOC	WIDTH FT	LENGTH FT	3 IN. OR LESS (SY)	GREATER THAN 3 IN. (SY)	REMARKS
0	0.061	CL/LT/RT	32	322.08	1145.2		
11.34	11.625	CL/LT/RT	24	1504.8		4012.8	4" MILL/FILL
				TOTAL	1145.2	4012.8	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.							

COLDMILLING						
LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MODIFIED DEPTH TRANSITION SY	REMARKS
0.061	0.080	CL/LT/RT	100	32	355.6	BEGIN PROJECT
0.767	0.787	RT	20	105.6	234.7	ROUTE D
0.759	0.778	CL/LT/RT	100	32	355.6	ROUTE D
1.452	1.471	CL/LT/RT	100	32	355.6	BRIDGE END (A4668)
1.543	1.566	LT	20	121.44	269.9	ROUTE JJ
2.768	2.787	CL/LT/RT	100	32	355.6	DEPTH TRANSITION
2.860	2.879	CL/LT/RT	100	32	355.6	DEPTH TRANSITION
4.467	4.475	RT	10	42.24	46.9	NORTH STREET
4.539	4.546	RT	20	36.96	82.1	ROUTE C
4.611	4.625	RT	10	73.92	82.1	2ND STREET
4.644	4.656	LT	10	63.36	70.4	2ND STREET
4.688	4.697	RT	10	47.52	52.8	3RD STREET
4.759	4.766	RT	10	36.96	41.1	4TH STREET
4.854	4.863	RT	10	47.52	52.8	CHAMBERLAIN STREET
4.920	4.929	RT	10	47.52	52.8	WALNUT STREET
5.043	5.066	LT	20	121.44	269.9	ROUTE B
5.278	5.297	CL/LT/RT	100	32	355.6	BRIDGE END (A4469)
5.340	5.359	CL/LT/RT	100	32	355.6	BRIDGE END (A4469)
9.393	9.416	RT	20	121.44	269.9	ROUTE 136
11.846	11.875	RT	20	153.12	340.3	ROUTE AB
17.201	17.227	LT	20	137.28	305.1	ROUTE FF
18.208	18.227	CL/LT/RT	100	28	311.1	BRIDGE END (B0103)
18.253	18.272	CL/LT/RT	100	28	311.1	BRIDGE END (B0103)
19.208	19.226	LT	10	95.04	105.6	ICON ROAD
20.322	20.346	LT	20	253.44	563.2	ROUTE CC
20.322	20.346	RT	20	253.44	563.2	BUS. ROUTE 71
20.327	20.346	CL/LT/RT	100	44	488.9	END PROJECT
0.000	20.346		2	VAR.	37.3	8 ENTRANCES
TOTAL					7040.4	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.						

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
1 OF 5

James Wingert
2025.08.29 10:07:43-05'00'



James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
71

STATE
MO

DISTRICT
NW

SHEET NO.
3

COUNTY
NODAWAY

JOB NO.
JNW0044

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)



1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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PAVEMENT & ENTRANCES											
LOG MILE	LOG MILE	LOC	LENGTH	WIDTH	MEASURED AREA	THICK	2" (BP-1) PG58-28H (1.96 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL (A) OR CRUSHED STONE (B) (SY)	PERMANENT AGGREGATE EDGE TREATMENT (TON)	REMARKS
			FT	FT	SY	IN					
0.000	0.279	CL/LT/RT	1473.12	32.0	5237.8	2.0	571.5	523.8		25.5	BEGIN PROJECT TO ECHO ROAD
0.279	0.529	CL/LT/RT	1320.00	32.0	4693.3	2.0	511.1	469.3		22.8	ECHO ROAD TO ECHO ROAD
0.529	0.778	CL/LT/RT	1314.72	32.0	4674.6	2.0	509.0	467.5		22.7	ECHO ROAD TO ROUTE D
0.778	1.265	CL/LT/RT	2571.36	32.0	9142.6	2.0	995.5	914.3		44.4	ROUTE D TO PVMT WIDTH CHANGES
1.265	1.371	CL/LT/RT	559.68	32.0	1990.0	2.0	216.7	199.0		9.7	PVMT WIDTH CHANGES TO BRIDGE (A4468)
1.452	1.542	CL/LT/RT	475.20	32.0	1689.6	2.0	184.0	169.0		8.2	BRIDGE (A4468) TO PVMT WIDTH CHANGES
1.542	1.555	CL/LT/RT	68.64	32.0	244.1	2.0	26.6	24.4		1.2	PVMT WIDTH CHANGES TO ROUTE JJ
1.555	2.787	CL/LT/RT	6504.96	32.0	23128.7	2.0	2518.5	2312.9		112.4	ROUTE JJ TO CRD 130
2.787	2.860	CL/LT/RT	385.44	32.0	1370.5	2.0	149.2	137.1		6.7	CRD 130 TO BEGIN CONCRETE PAVEMENT
2.860	3.795	CL/LT/RT	4936.80	32.0	17553.1	4.0	3822.7	5265.9		426.6	* BEGIN CONCRETE PAVEMENT TO CRD 140
3.795	3.829	CL/LT/RT	179.52	32.0	638.3	4.0	139.0	191.5		15.5	* CRD 140 TO END CONCRETE PAVEMENT
3.829	4.303	CL/LT/RT	2502.72	32.0	8898.6	2.0	969.0	889.9		216.3	END CONCRETE PAVEMENT TO CRD 150
4.303	4.420	CL/LT/RT	617.76	32.0	2196.5	2.0	239.2	219.7		10.7	CRD 150 TO CHERRY STREET
4.420	4.471	CL/LT/RT	269.28	32.0	957.4	2.0	104.3	95.7		4.7	CHERRY STREET TO NORTH STREET
4.471	4.543	CL/LT/RT	380.16	32.0	1351.7	2.0	147.2	135.2		6.6	NORTH STREET TO ROUTE C (1ST ST.)
4.543	4.618	CL/LT/RT	396.00	32.0	1408.0	2.0	153.3	140.8		6.8	ROUTE C (1ST ST.) TO 2ND STREET (WEST)
4.618	4.652	CL/LT/RT	179.52	32.0	638.3	2.0	69.5	63.8		3.1	2ND STREET (WEST) TO 2ND STREET (EAST)
4.652	4.694	CL/LT/RT	221.76	32.0	788.5	2.0	85.9	78.9		3.8	2ND STREET (EAST) TO 3RD STREET
4.694	4.762	CL/LT/RT	359.04	32.0	1276.6	2.0	139.0	127.7		6.2	3RD STREET TO 4TH STREET
4.762	4.857	CL/LT/RT	501.60	32.0	1783.5	2.0	194.2	178.4		8.7	4TH STREET TO CHAMBERLAIN STREET
4.857	4.924	CL/LT/RT	353.76	32.0	1257.8	2.0	137.0	125.8		6.1	CHAMBERLAIN STREET TO WALNUT STREET
4.924	5.054	CL/LT/RT	686.40	32.0	2440.5	2.0	265.7	244.1		11.9	WALNUT STREET TO ROUTE B (CHERRY ST.)
5.054	5.297	CL/LT/RT	1283.04	32.0	4561.9	2.0	496.7	456.2		22.2	ROUTE B (CHERRY ST.) TO BRIDGE (A4469)
5.340	5.805	CL/LT/RT	2455.20	32.0	8729.6	2.0	950.6	873.0		42.4	BRIDGE (A4469) TO CRD 160
5.805	6.551	CL/LT/RT	3938.88	32.0	14004.9	2.0	1525.0	1400.5		68.1	CRD 160 TO CRD 170 (WEST)
6.551	6.809	CL/LT/RT	1362.24	32.0	4843.5	2.0	527.4	484.4		23.5	CRD 170 (WEST) TO CRD 170 (EAST)
6.809	7.321	CL/LT/RT	2703.36	32.0	9611.9	2.0	1046.6	961.2		46.7	CRD 170 (EAST) TO CRD 309
7.321	7.910	CL/LT/RT	3109.92	32.0	11057.5	2.0	1204.0	1105.8		53.7	CRD 309 TO CRD 180
7.910	8.651	CL/LT/RT	3912.48	32.0	13911.0	2.0	1514.8	1391.1		67.6	CRD 180 TO CRD 187
8.651	8.906	CL/LT/RT	1346.40	32.0	4787.2	2.0	521.3	478.7		23.3	CRD 187 TO CRD 192
8.906	9.406	CL/LT/RT	2640.00	32.0	9386.7	2.0	1022.1	938.7		45.6	CRD 192 TO ROUTE 136
9.406	9.904	CL/LT/RT	2629.44	28.0	8180.5	2.0	890.8	818.1		68.2	ROUTE 136 TO CRD 200
9.904	10.727	CL/LT/RT	4345.44	28.0	13519.1	2.0	1472.1	1351.9		112.7	CRD 200 TO EMPIRE ROAD
10.727	11.013	CL/LT/RT	1510.08	28.0	4698.0	2.0	511.6	469.8		39.2	EMPIRE ROAD TO CRD 210
11.013	11.340	CL/LT/RT	1726.56	28.0	5371.5	2.0	584.9	537.2		44.8	CRD 210 TO FAIRWAY ROAD
11.340	11.625	CL/LT/RT	1504.80	28.0	4681.6	4.0	1019.5	468.2			PAVEMENT REPAIR AREA
11.625	11.865	CL/LT/RT	1267.20	28.0	3942.4	2.0	429.3	394.2		32.9	FAIRWAY ROAD TO ROUTE AB
11.865	12.904	CL/LT/RT	5485.92	28.0	17067.3	2.0	1858.4	1706.7		142.2	ROUTE AB TO FORTUNE ROAD
12.904	13.223	CL/LT/RT	1684.32	28.0	5240.1	2.0	570.6	524.0		43.7	FORTUNE ROAD TO CRD 210
13.223	13.485	CL/LT/RT	1383.36	28.0	4303.8	2.0	468.6	430.4		35.9	CRD 210 TO FOUNTAIN ROAD
13.485	14.345	CL/LT/RT	4540.80	28.0	14126.9	2.0	1538.3	1412.7		117.7	FOUNTAIN ROAD TO CRD 220
14.345	14.778	CL/LT/RT	2286.24	28.0	7112.7	2.0	774.5	711.3		59.3	CRD 220 TO 224TH STREET
14.778	14.857	CL/LT/RT	417.12	28.0	1297.7	2.0	141.3	129.8		10.8	224TH STREET TO 225TH STREET
14.857	15.033	CL/LT/RT	929.28	28.0	2891.1	2.0	314.8	289.1		24.1	225TH STREET TO GALAXY ROAD
15.033	15.716	CL/LT/RT	3606.24	28.0	11219.4	2.0	1221.7	1121.9		93.5	GALAXY ROAD TO CRD 230
15.716	17.215	CL/LT/RT	7914.72	28.0	24623.6	2.0	2681.2	2462.4		205.2	CRD 230 TO ROUTE FF
17.215	17.464	CL/LT/RT	1314.72	28.0	4090.2	2.0	445.4	409.0		34.1	ROUTE FF TO HALLMARK ROAD
17.464	18.218	CL/LT/RT	3981.12	28.0	12385.7	2.0	1348.7	1238.6		103.2	HALLMARK ROAD TO HAWK ROAD
18.218	18.227	CL/LT/RT	47.52	28.0	147.8	2.0	16.1	14.8		1.2	HAWK ROAD TO BRIDGE (B0103)
18.253	18.301	CL/LT/RT	253.44	28.0	788.5	2.0	85.9	78.9		6.6	BRIDGE (B0103) TO HAWK ROAD
18.301	19.146	CL/LT/RT	4461.60	28.0	13880.5	2.0	1511.4	1388.1		115.7	HAWK ROAD TO BEGIN 3 LANE SECTION
19.146	19.219	CL/LT/RT	385.44	44.0	1884.4	2.0	205.2	188.4		6.7	BEGIN 3 LANE SECTION TO ICON ROAD
19.219	19.632	CL/LT/RT	2180.64	44.0	10660.9	2.0	1160.9	1066.1		37.7	ICON ROAD TO END 3 LANE SECTION
19.632	19.726	CL/LT/RT	496.32	28.0	1544.1	2.0	168.1	154.4		12.9	END 3 LANE SECTION TO IDEAL ROAD
19.726	19.842	CL/LT/RT	612.48	28.0	1905.5	2.0	207.5	190.6		15.9	IDEAL ROAD TO TYPICAL CHANGE
19.842	20.370	CL/LT/RT	2787.84	44.0	13629.4	2.0	1484.1	1362.9		48.2	TYPICAL CHANGE TO END OF PROJECT
SUBTOTAL - 1							42067.5	39983.8	0.0	2786.1	
LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.											
* CONTRACTOR SHALL MAKE 3 PASSES OF TACK COAT											

James Wingert
2025.09.04 14:24:03-05'00"

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
9/4/2025

ROUTE
71

STATE
MO

DISTRICT
NW

SHEET NO.
3

COUNTY
NODAWAY

JOB NO.
JNW0044

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)

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

RUMBLE STRIPS				
LOG MILE	LOG MILE	LOCATION	EDGE LINE RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)
0.061	0.249	ROUTE 71 LT	9.9	
0.061	0.249	ROUTE 71 RT	9.9	
0.314	0.498	ROUTE 71 RT	9.7	
0.314	0.718	ROUTE 71 LT	21.3	
0.543	0.742	ROUTE 71 RT	10.5	
0.764	1.371	ROUTE 71 LT	32.0	
0.770	1.371	ROUTE 71		31.7
0.819	1.371	ROUTE 71 RT	29.1	
1.452	5.297	ROUTE 71		203.0
1.452	1.534	ROUTE 71 LT	4.3	
1.452	1.699	ROUTE 71 RT	13.0	
1.594	1.699	ROUTE 71 LT	5.5	
1.751	2.070	ROUTE 71 LT	16.8	
1.891	2.001	ROUTE 71 RT	5.8	
2.043	2.750	ROUTE 71 RT	37.3	
2.111	2.792	ROUTE 71 LT	36.0	
2.803	3.760	ROUTE 71 RT	50.5	
2.839	2.999	ROUTE 71 LT	8.4	
3.025	4.287	ROUTE 71 LT	66.6	
3.816	4.404	ROUTE 71 RT	31.0	
4.334	4.404	ROUTE 71 LT	3.7	
5.155	5.297	ROUTE 71 RT	7.5	
5.155	5.297	ROUTE 71 LT	7.5	
5.340	20.346	ROUTE 71		792.3
5.340	5.653	ROUTE 71 RT	16.5	
5.340	5.790	ROUTE 71 LT	23.8	
5.698	5.865	ROUTE 71 RT	8.8	
5.838	6.678	ROUTE 71 LT	44.4	
5.909	6.277	ROUTE 71 RT	19.4	
6.317	6.513	ROUTE 71 RT	10.3	
6.570	7.525	ROUTE 71 RT	50.4	
6.740	6.794	ROUTE 71 LT	2.9	
6.845	7.286	ROUTE 71 LT	23.3	
7.374	7.892	ROUTE 71 LT	27.4	
7.567	7.881	ROUTE 71 RT	16.6	
7.925	8.471	ROUTE 71 RT	28.8	
7.941	8.112	ROUTE 71 LT	9.0	
8.155	8.616	ROUTE 71 LT	24.3	
8.517	8.623	ROUTE 71 RT	5.6	
8.665	9.315	ROUTE 71 RT	34.3	
8.676	8.886	ROUTE 71 LT	11.1	
8.939	8.954	ROUTE 71 LT	0.8	
9.001	9.402	ROUTE 71 LT	21.2	
9.425	10.066	ROUTE 71 RT	33.8	
9.502	9.887	ROUTE 71 LT	20.3	
9.934	10.104	ROUTE 71 LT	9.0	
10.116	10.684	ROUTE 71 RT	30.0	
10.147	10.476	ROUTE 71 LT	17.4	
10.554	11.075	ROUTE 71 LT	27.5	
10.750	10.947	ROUTE 71 RT	10.4	
11.008	11.824	ROUTE 71 RT	43.1	
11.116	11.165	ROUTE 71 LT	2.6	
11.206	11.794	ROUTE 71 LT	31.0	
11.847	12.046	ROUTE 71 LT	10.5	
11.893	12.683	ROUTE 71 RT	41.7	
12.105	12.284	ROUTE 71 LT	9.5	
12.382	12.888	ROUTE 71 LT	26.7	
12.717	14.306	ROUTE 71 RT	83.9	
12.934	13.120	ROUTE 71 LT	9.8	
13.161	13.209	ROUTE 71 LT	2.5	
13.255	13.455	ROUTE 71 LT	10.6	
13.518	13.689	ROUTE 71 LT	9.0	
13.732	14.334	ROUTE 71 LT	31.8	
14.362	14.867	ROUTE 71 RT	26.7	
14.378	14.690	ROUTE 71 LT	16.5	
15.055	15.686	ROUTE 71 RT	33.3	
15.071	16.229	ROUTE 71 LT	61.1	
15.728	16.080	ROUTE 71 RT	18.6	
16.130	16.280	ROUTE 71 RT	7.9	
16.316	16.917	ROUTE 71 LT	31.7	
16.321	16.389	ROUTE 71 RT	3.6	
16.431	16.755	ROUTE 71 RT	17.1	
16.800	17.176	ROUTE 71 RT	19.9	
SUBTOTAL - 1			1492.7	1027.0

RUMBLE STRIPS				
LOG MILE	LOG MILE	LOCATION	EDGE LINE RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)
16.955	17.163	ROUTE 71 LT	11.0	
17.218	17.435	ROUTE 71 RT	11.5	
17.252	18.202	ROUTE 71 LT	50.2	
17.478	18.227	ROUTE 71 RT	39.5	
18.253	18.267	ROUTE 71 RT	0.7	
18.253	18.690	ROUTE 71 LT	23.1	
18.315	19.175	ROUTE 71 RT	45.4	
18.757	18.825	ROUTE 71 LT	3.6	
18.877	19.191	ROUTE 71 LT	16.6	
19.242	19.695	ROUTE 71 RT	23.9	
19.309	19.518	ROUTE 71 LT	11.0	
19.594	19.881	ROUTE 71 LT	15.2	
19.740	20.292	ROUTE 71 RT	29.1	
19.991	20.308	ROUTE 71 LT	16.7	
SUBTOTAL - 2			297.5	0.0
SUBTOTAL - 1			1492.7	1027.0
TOTAL			1790.2	1027.0

DRAIN FLUME			
LOG MILE	LOC	DRAIN FLUME (EACH)	REMARKS
1.371	LT	1	BRIDGE A4468
1.371	RT	1	BRIDGE A4468
1.452	LT	1	BRIDGE A4468
1.452	RT	1	BRIDGE A4468
5.297	LT	1	BRIDGE A4669
5.297	RT	1	BRIDGE A4669
5.340	LT	1	BRIDGE A4669
5.340	RT	1	BRIDGE A4669
TOTAL		8	
LOG MILES ARE APPROXIMATE .			
EXACT LOCATIONS TO BE DETERMINED BY ENGINEER .			

TRAFFIC COUNTER LOOPS			
LOG MILE	LOC	REPLACEMENT LOOPS (EACH)	REMARKS
5.979	LT	1	
5.979	RT	1	
TOTAL		2	
LOG MILES ARE APPROXIMATE .			
EXACT LOCATIONS TO BE DETERMINED BY ENGINEER .			

TEMPORARY PAVEMENT MARKING							
LOG MILE	LOG MILE	LOCATION	TEMPORARY REMOVABLE MARKING TAPE			PAVEMENT MARKING REMOVAL (LF)	REMARKS
			4" WHITE (L.F.)	4" YELLOW (L.F.)	24" WHITE (L.F.)		
1.177	1.272	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
1.272	1.551	ROUTE 71				1475	EXISTING CENTERLINE
1.272		ROUTE 71 RT			12	12	STOP BAR
1.314	1.509	ROUTE 71	2057.0			2057	EDGE LINE
1.551		ROUTE 71 LT			12	12	STOP BAR
1.551	1.646	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
5.103	5.198	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
5.198	5.439	ROUTE 71				1275	EXISTING CENTERLINE
5.198		ROUTE 71 RT			12	12	STOP BAR
5.240	5.397	ROUTE 71	1656.0			1656	EDGE LINE
5.439		ROUTE 71 LT			12	12	STOP BAR
5.439	5.534	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
7.797	7.892	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
7.892	8.096	ROUTE 71				1079	EXISTING CENTERLINE
7.892		ROUTE 71 RT			12	12	STOP BAR
7.934	8.054	ROUTE 71	1265.0			1265	EDGE LINE
8.096		ROUTE 71 LT			12	12	STOP BAR
8.096	8.191	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
18.033	18.128	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
18.128	18.352	ROUTE 71				1185	EXISTING CENTERLINE
18.128		ROUTE 71 RT			12	12	STOP BAR
18.170	18.310	ROUTE 71	1477.0			1477	EDGE LINE
18.352		ROUTE 71 LT			12	12	STOP BAR
18.352	18.447	ROUTE 71		1000.0		1000	DOUBLE YELLOW CENTERLINE
TOTAL			6455.0	8000.0	96.0	19565.0	
USE			6455	8000	96	19565	

SEE PAVEMENT MARKING LOG JSP

SUMMARY OF QUANTITIES
4 OF 5

James Wingert
2025.08.29 10:09:42-05'00'

James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
71

STATE
MO

DISTRICT
NW

SHEET NO.
3

COUNTY
NODAWAY

JOB NO.
JNW0044

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)

olsson

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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

SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025	
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.		IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.		NUMBER		DESCRIPTION	
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2	20				ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16				END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50	4	18				PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75	17	148.75				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50	160	240				PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)	
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)	
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)	
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	200	CHANNELIZER (TRIM-LINE)	
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)	
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030		TYPE 3 MOVEABLE BARRICADE	
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE	
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00						SPEED LIMIT XX	6161040		FLASHING ARROW PANEL	
WO3-4	48X48	16.00	17	272				BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT	
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER	
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096	2*	CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6161098A		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6161099	1*	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)			WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6162000A		TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6162002	12*	TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED	
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6173600D		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)			TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED	
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6173700B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED	
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)			RELOCATING TEMPORARY TRAFFIC BARRIER	
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT	
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6208064A		TEMPORARY RAISED PAVEMENT MARKER	
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	9029400		TEMPORARY TRAFFIC SIGNALS	
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD			NOTE: ALL TRAFFIC CONTROL DEVICES ARE INCLUDED IN PAY ITEM 6199901 LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.	
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY				
WO8-11	48X48	16.00	56	896				UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC				
WO8-12	48X48	16.00	38	608				NO CENTER LINE	CONST-3X	56X12	4.67						FINE SIGN				
WO8-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS												
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE				
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00						POINT OF PRESENCE				
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-7	48X36	12.00						RATE OUR WORK ZONE				
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	CONST-8	48X36	12.00	2	24				WORK ZONE NO PHONE ZONE				
W10-1	42RND.	9.62						RAILROAD CROSSING													
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)													
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)													
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)													
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)													
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD													
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD													
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)													
WO16-2	30X24	5.00						XXX FEET (PLAQUE)													
WO16-3	30X24	5.00						X MILE (PLAQUE)													
WO20-1	48X48	16.00	21	336				ROAD/BRIDGE/RAMP WORK AHEAD													
WO20-2	48X48	16.00						DETOUR AHEAD													
WO20-3	48X48	16.00						ROAD CLOSED AHEAD													
WO20-4	48X48	16.00	4	64				ONE LANE ROAD AHEAD	616-10.05	CONSTRUCTION SIGNS			TOTAL								
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10				TOTAL				* ITEMS NOT INCLUDED IN LUMP SUM TEMPORARY TRAFFIC CONTROL				
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCATED SIGNS												
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED													
WO20-7a	48X48	16.00	21	336				FLAGGER (SYMBOL)													
WO21-2	36X36	9.00						FRESH OIL													
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD													
WO22-1	48X48	16.00						BLASTING ZONE AHEAD													
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE													
WO22-3	42X36	10.50						END BLASTING ZONE													
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)													

SUMMARY OF QUANTITIES
5 OF 5

James Wingert
2025.08.29 10:10:18-05'00'

JAMES J. WINGERT
NUMBER
1144

DATE PREPARED
8/27/2025

ROUTE
71

DISTRICT
NW

COUNTY
NODAWAY

JOB NO.
JNW0044

PROJECT NO.

BRIDGE NO.

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

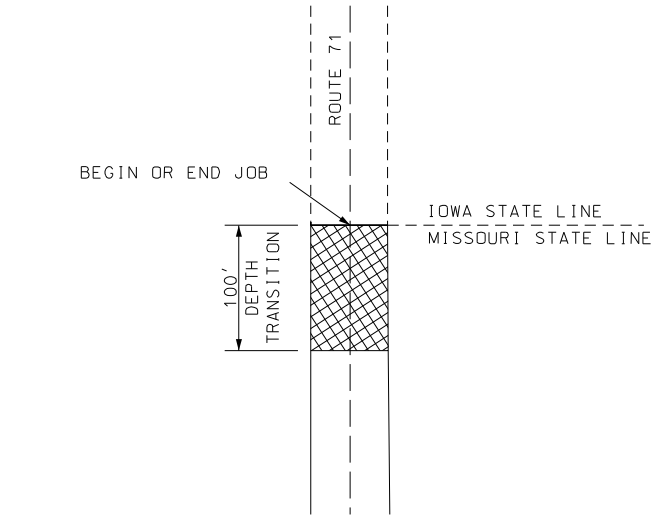
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

olsson

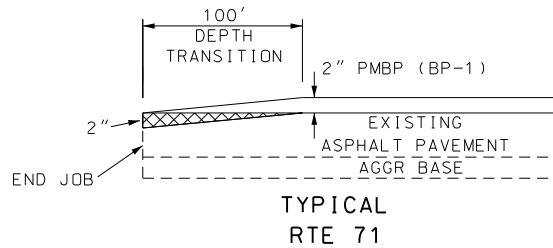
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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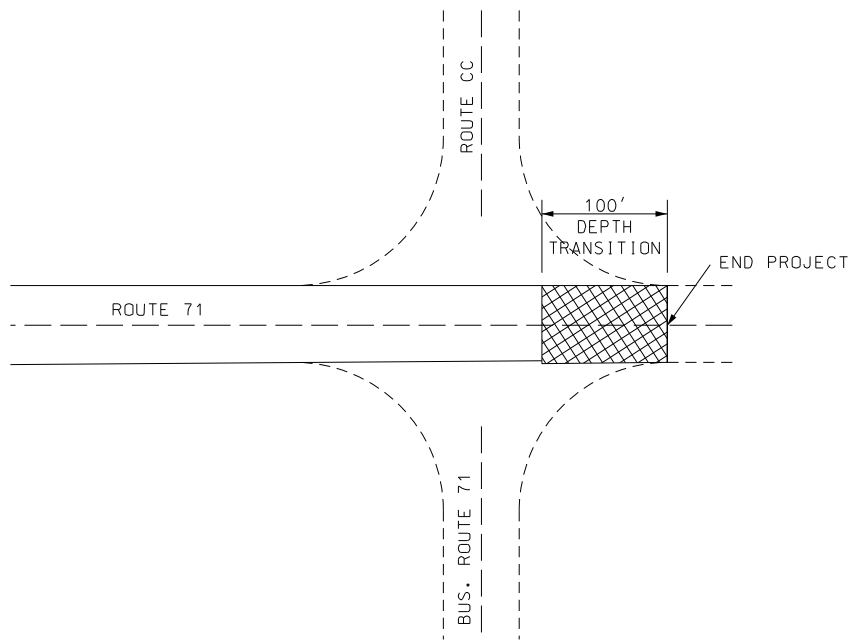
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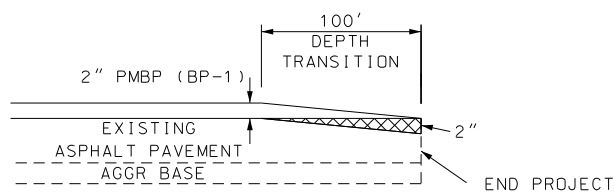
PLAN VIEW AT RTE 71



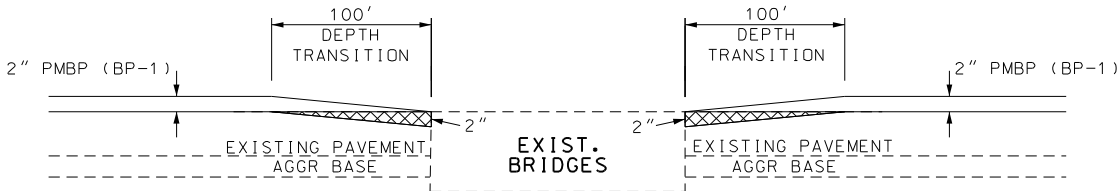
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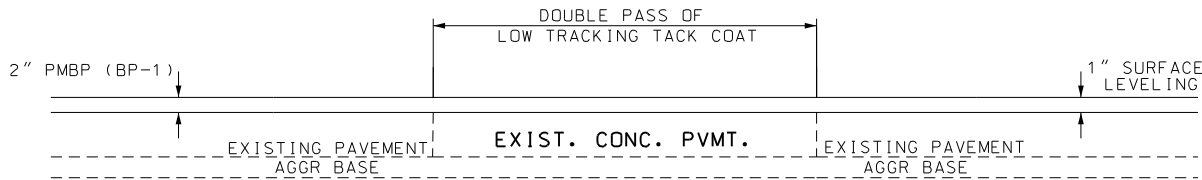
PLAN VIEW AT RTE 71



TYPICAL
RTE 71



TYPICAL AT BRIDGE ENDS



TYPICAL AT EXISTING CONCRETE PAVEMENT

-  OVERLAY
-  MODIFIED COLDMILLING

LOG MILE LOCATIONS APPROXIMATE
ADJUST AS DIRECTED BY ENGINEER
TO FIT FIELD CONDITIONS.

DRAWING NOT TO SCALE

SPECIAL SHEET
1 OF 3

James Wingert
2025.08.29 10:11:17-05'00'



James J. WINGERT-ENGINEER
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
71

DISTRICT
NW

COUNTY
NODAWAY

JOB NO.
JNW0044

PROJECT NO.

BRIDGE NO.

STATE
MO

SHEET NO.
4

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

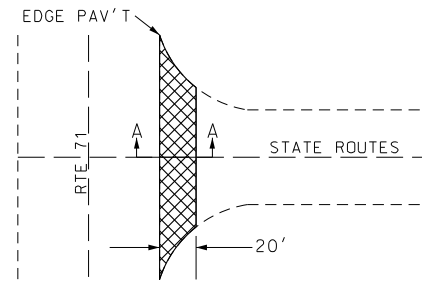


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

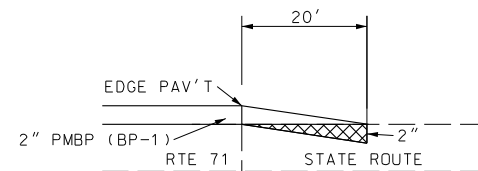


1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

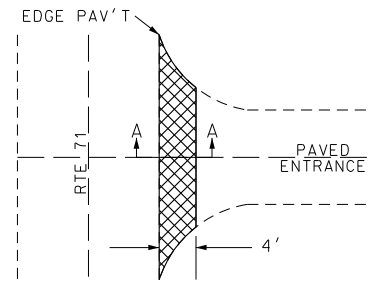
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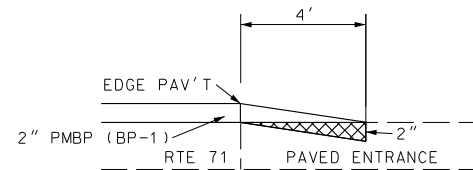
PLAN VIEW FOR STATE ROUTES



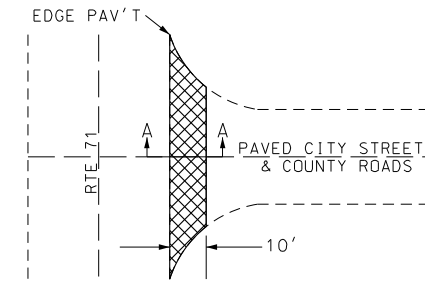
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SECTION A-A



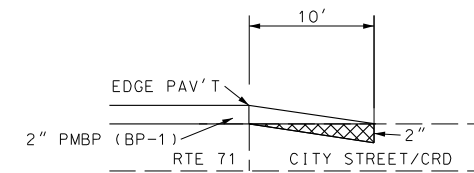
PLAN VIEW FOR PAVED
PRIVATE AND COMMERCIAL ENTRANCES



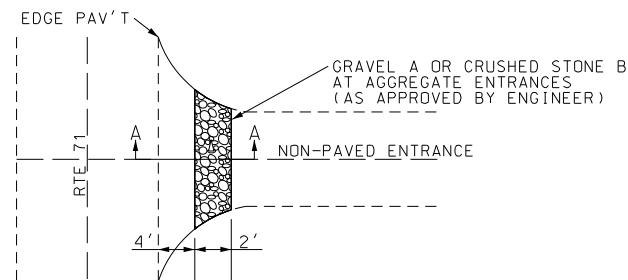
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SECTION A-A



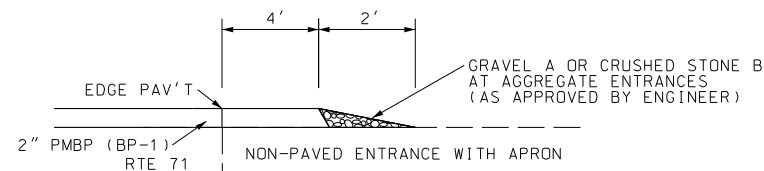
PLAN VIEW FOR PAVED
CITY STREETS AND COUNTY ROADS



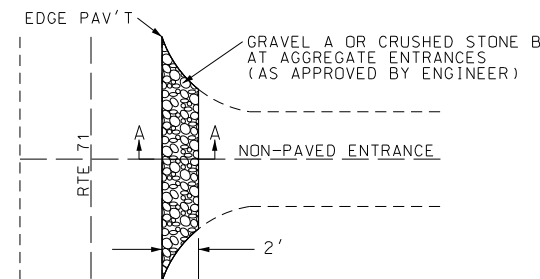
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SECTION A-A



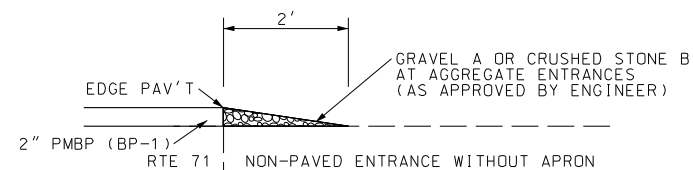
PLAN VIEW FOR NON-PAVED PRIVATE
AND COMMERCIAL ENTRANCES WITH EXISTING APRON



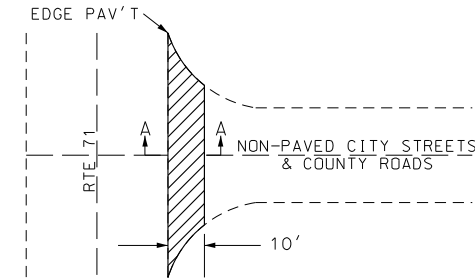
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SECTION A-A



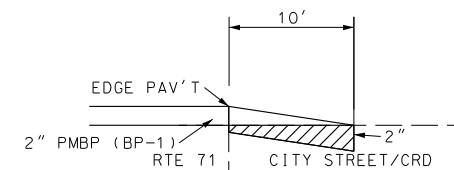
PLAN VIEW FOR NON-PAVED PRIVATE
AND COMMERCIAL ENTRANCES WITHOUT EXISTING APRON



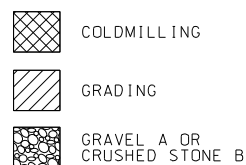
TYPICAL
SECTION A-A



PLAN VIEW FOR NON-PAVED
CITY STREETS AND COUNTY ROADS



TYPICAL
SECTION A-A



NOTES

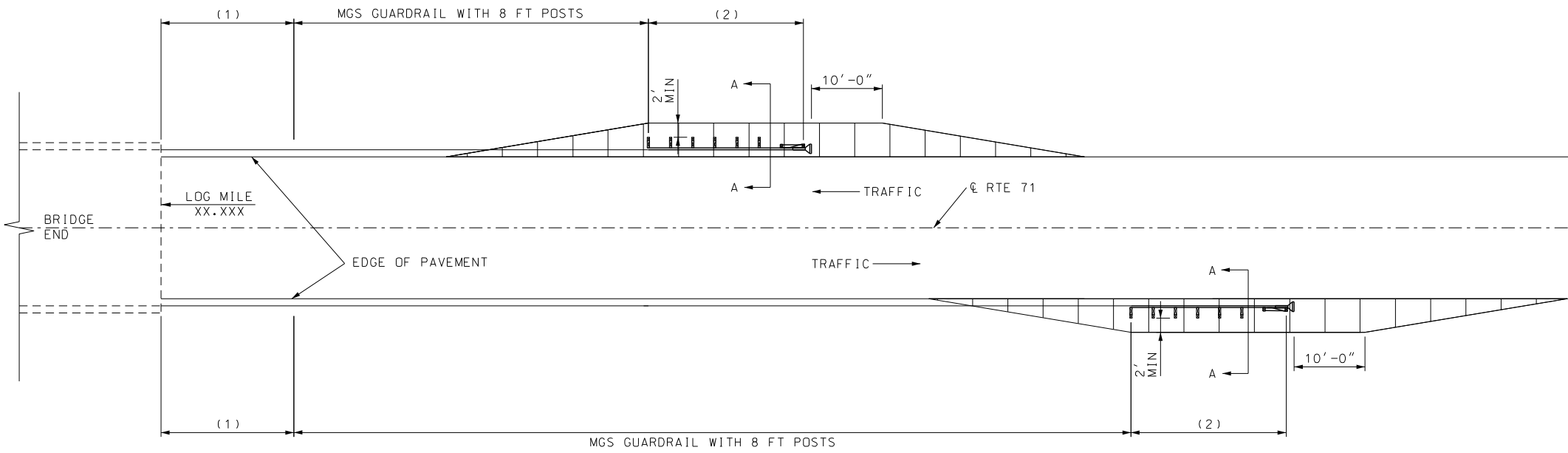
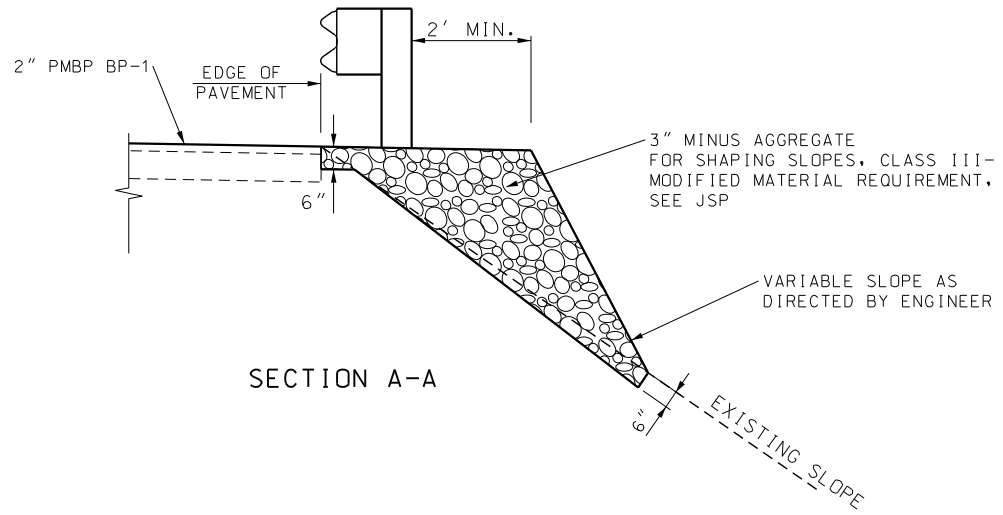
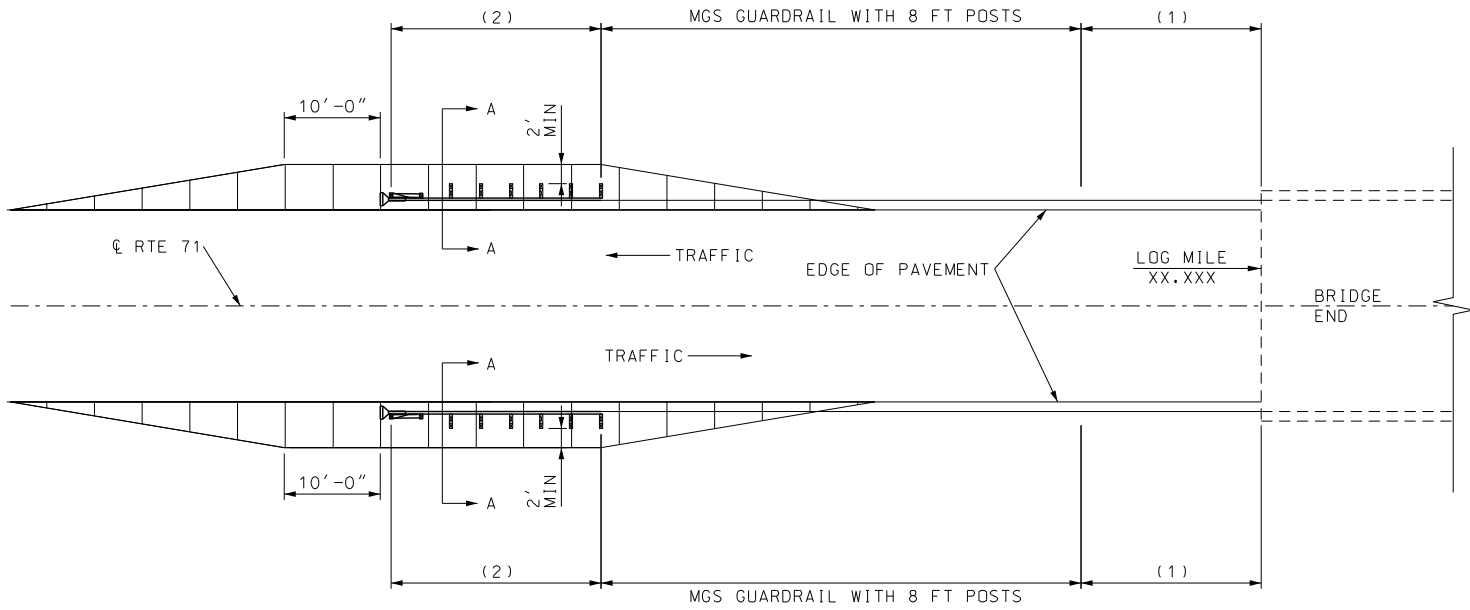
ALL GRADING NECESSARY FOR THE PROPER
CONSTRUCTION OF HOT MIX AND AGGREGATE
APRONS SHALL BE CONSIDERED INCIDENTAL
WORK AND AT NO DIRECT PAY.

THE WIDTH OF ALL HOT MIX AND AGGREGATE
APRONS MAY BE ADJUSTED BY THE ENGINEER
AS NECESSARY TO OBTAIN SUITABLE TRANSITIONS.

DRAWING NOT TO SCALE

SPECIAL SHEET
2 OF 3

James Wingert 2025.08.29 10:12:06-05'00'	
JAMES J. WINGERT—ENGINEER MO# PE-2009001144	
DATE PREPARED 8 / 27 / 2025	
ROUTE 71	STATE MO
DISTRICT NW	SHEET NO. 5
COUNTY NODAWAY	
JOB NO. JNW0044	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
Olsson 1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116 PHONE: 816.361.1177 CERTIFICATE OF AUTHORITY NO. 001592	



TYPICAL GUARDRAIL AND GRADING LIMITS

- (1) MGS BRIDGE APPROACH TRANSITION
- (2) TYPE A CRASHWORTHY END TERMINAL (MASH)

- NOTES:
- 1. SEE STD 606.81 FOR GRADING LIMITS OF SHAPING SLOPES CLASS III-MODIFIED MATERIAL REQUIREMENTS.
 - 2. SHAPING SLOPES CLASS III-MODIFIED MATERIAL REQUIREMENTS SHALL BE PAID FOR AS 2159910 SHAPING SLOPES CLASS III - MODIFIED MATERIAL REQUIREMENTS, PER 100 FT.

LOG MILE LOCATIONS APPROXIMATE.
ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS

DRAWING NOT TO SCALE
SPECIAL SHEET
3 OF 3

James Wingert
2025.08.29 10:13:04-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
71

DISTRICT
NW

STATE
MO

SHEET NO.
6

COUNTY
NODAWAY

JOB NO.
JNW0044

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

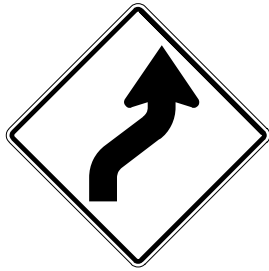
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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15



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47

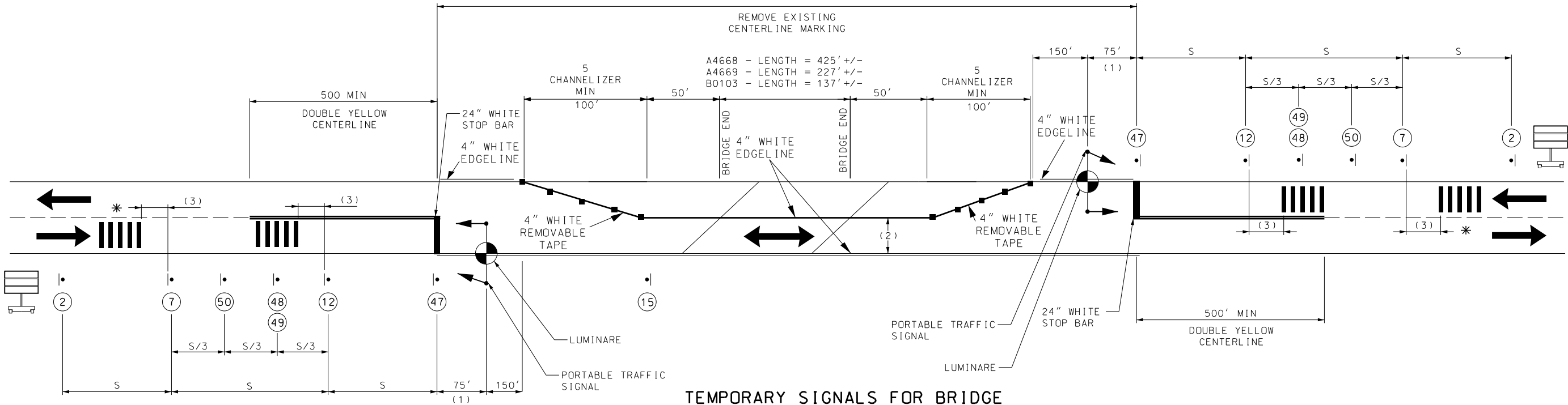


48



49

SPEED	SIGN SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)
0-35	200	-
40-45	350	-
50-55	500	-
60-70	1000	-



TEMPORARY SIGNALS FOR BRIDGE
BRIDGE A4668 - LM 1.371
BRIDGE A4669 - LM 5.297
BRIDGE B0103 - LM 18.253

TRAFFIC CONTROL LEGEND

- - SIGN (SINGLE SIDED)
- - CHANGEABLE MESSAGE BOARD
- - CHANNELIZER
- - PORTABLE TRAFFIC SIGNAL AND LUMINAIRE
- - TEMPORARY LONG-TERM RUMBLE STRIPS
- - ADVANCE WARNING RAIL SYSTEM
- - TRUCK MOUNTED ATTENUATOR (TMA) (NO DIRECT PAY)

NOTES:

- (1) 75' RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40' AND 150'.
- (2) DRIVING LANE SHALL BE AT LEAST 10' IN WIDTH.
- RELOCATE PORTABLE TRAFFIC SIGNALS AS REQUIRED AT NO DIRECT PAY.
- EXISTING CONFLICTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS BETWEEN THE ACTIVITY AREA AND THE STOP LINE SHALL BE REMOVED. AFTER THE TEMPORARY TRAFFIC CONTROL SIGNAL IS REMOVED, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.
- REFER TO STANDARD PLAN SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.
- THE CONTRACTOR SHALL PROVIDE TMA AT NO DIRECT PAY

TEMP. LONG-TERM RUMBLE STRIPS		
SPEED MPH	DISTANCE (3)	SPACING (4)
0-45 (OPTIONAL)	120 FT	10-12 FT
50-55	160 FT	10-12 FT
60-70	200 FT	10-12 FT
* SECOND SET OF TEMPORARY RUMBLES OPTIONAL		

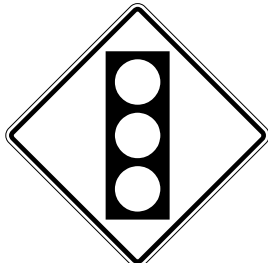


2

BRIDGE OR RAMP



7



12

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

TRAFFIC CONTROL
1 OF 1

James Wingert
2025.08.29 10:13:40-05'00'

James J. Wingert-Engineer
MO# PE-2009001144

DATE PREPARED
8/27/2025

ROUTE
71

DISTRICT
NW

STATE
MO

SHEET NO.
7

COUNTY
NODAWAY

JOB NO.
JNW0044

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

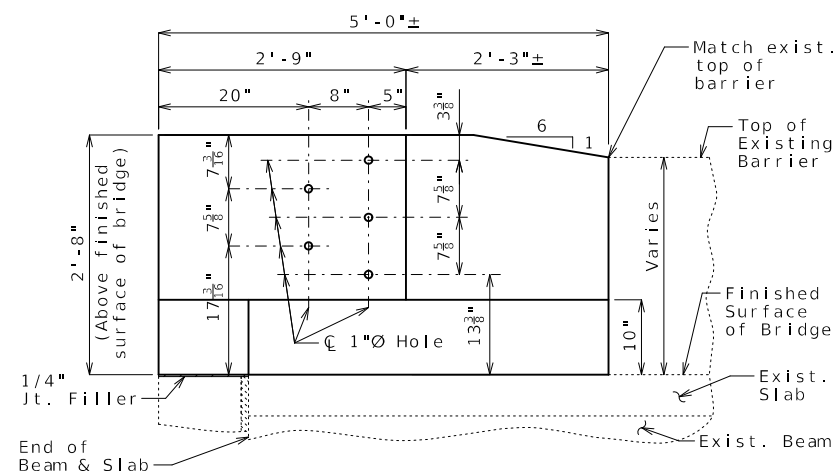
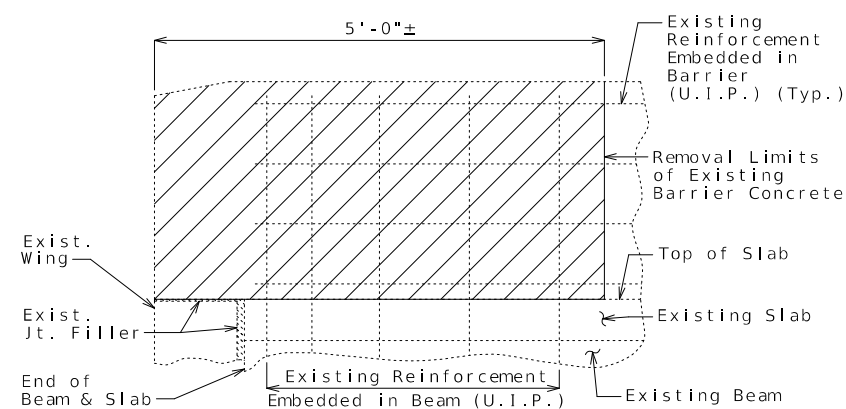
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

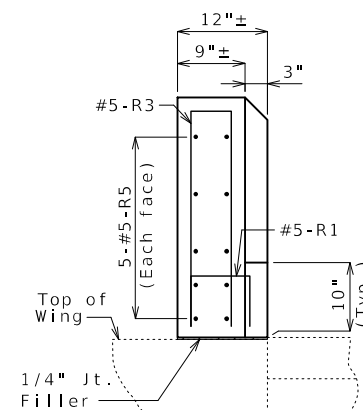
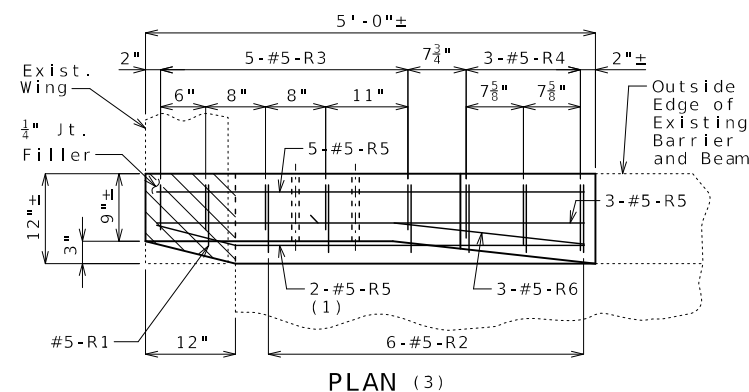
1301 BURLINGTON STREET, STE. 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.361.1177
CERTIFICATE OF AUTHORITY NO. 001592

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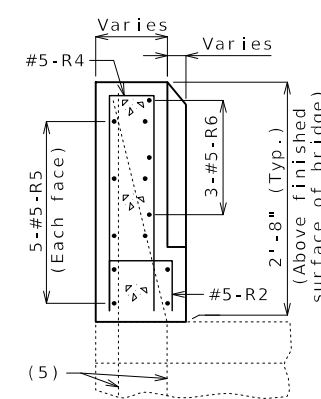
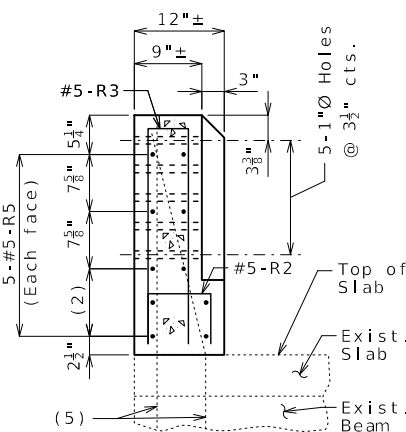
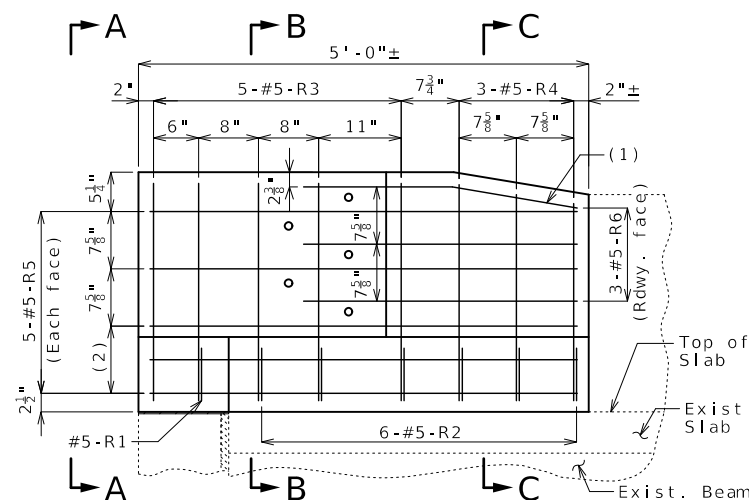
U.I.P. & REHABILITATE EXISTING (90') SIMPLE PRESTRESSED CONCRETE BOX BEAM SPAN



Estimated Quantities	
Item	Total
Barrier End Modification	4



- (1) Bend in field.
- (2) 2 Spa. @ $4\frac{1}{2}$ "
- (3) Existing reinforcement not shown for clarity.
- (4) Existing longitudinal reinforcement not shown for clarity.
- (5) Existing reinforcement embedded in beam (U.I.P.) (Bend in field as needed) (Typ.)



General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Unit Stresses:
Class B-1 Concrete $f'_c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2",
unless otherwise shown.

Miscellaneous:
One lane of traffic shall remain open during construction. See roadway plans for traffic control.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise shown.

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

All reinforcement in barrier end modification shall be epoxy coated.

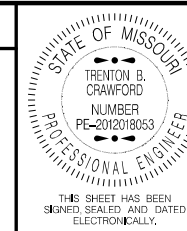
Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with a qualified special mortar in accordance with Sec 704.

Cost of removing existing barrier concrete, and cost of furnishing and installing new concrete, new reinforcing steel, and any other work incidental to the barrier end modification, complete in place, will be considered completely covered by the contract unit price for Barrier End Modification.

REPAIRS TO BRIDGE:
ROUTE 71 OVER WHITE CLOUD BRANCH

ROUTE 71 FROM ROUTE CC TO ROUTE FF
ABOUT 2.1 MILES WEST OF ROUTE CC
BEGINNING STATION 99+94.33± (MATCH EXISTING)



DATE PREPARED
7/16/2025

ROUTE	STATE
71	MO

DISTRICT	SHEET NO
BR	1

COUNTY
NODAWAY

JOB NO.
JNW0044

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
B01031[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

