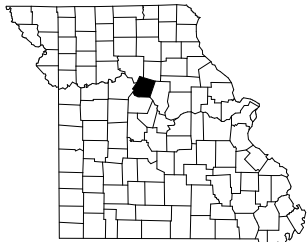


DESIGN DESIGNATION

A.A.D.T. - 2026 = 4516
A.A.D.T. - 2046 = 5817
T = 13%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

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



KEY MAP
LOCATION OF HOWARD COUNTY

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



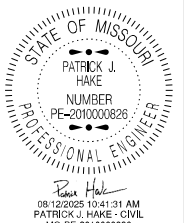
LOG MILE - 142.739
STA. 486+64.00

PROJECT LENGTH
SULPHUR CREEK BRIDGE REHAB - H0266

LOG MILE - 142.766
STA. 488+06.50

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (2 SHEET)-----	3
TRAFFIC CONTROL SHEETS (TC)-----	4-7
BRIDGE DRAWINGS (B)	
H0266-----	1



DATE PREPARED 8/12/2025	
ROUTE 5	STATE MO
DISTRICT CD	SHEET NO. 1
COUNTY HOWARD	
JOB NO. J5P3532	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

LENGTH OF PROJECT

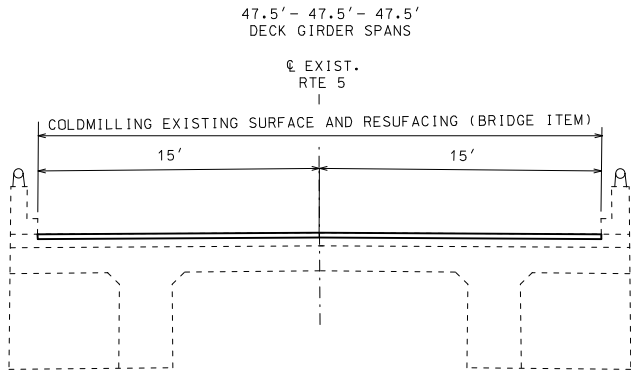
BEGINNING OF PROJECT	STA. 486+64.00
END OF PROJECT	STA. 488+06.50
APPARENT LENGTH	142.50 FEET
EQUATIONS AND EXCEPTIONS:	NONE

TOTAL CORRECTIONS	NONE
NET LENGTH OF PROJECT	142.50 FEET
STATE LENGTH	0.027 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES
---	---------

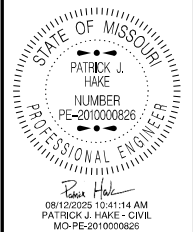
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY 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.

NOT TO SCALE



BRIDGE TYPICAL SECTION
H0266
STA. 486+64.00 TO STA. 488+06.50

NOT TO SCALE



DATE PREPARED 8/12/2025	
ROUTE 5	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY HOWARD	
JOB NO. J5P3532	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

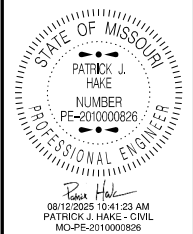


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY PAVEMENT MARKING TAPE								
STA.	STA.	LOCATION	LENGTH FT	TEMPORARY REMOVABLE PAVEMENT MARKING TAPE (4" YELLOW) LF	TEMPORARY REMOVABLE PAVEMENT MARKING TAPE (4" WHITE) LF	TEMPORARY REMOVABLE PAVEMENT MARKING TAPE (24" WHITE) LF	PAVEMENT MARKING REMOVAL LF	REMARKS
476+78.00		ROUTE 5 (SB & NB LANE CLOSURE)	-			12.00	12.00	1 - SOLID STOP BAR 12' WIDE
479+03.00	485+33.00	ROUTE 5 (SB LANE CLOSURE)	630.00		630.00		630.00	
489+00.50	495+30.50	ROUTE 5 (SB LANE CLOSURE)	630.00		630.00		630.00	
471+78.00	476+78.00	ROUTE 5 (SB & NB LANE CLOSURE)	500.00	1000.00			1000.00	DOUBLE YELLOW
479+40.00	485+70.00	ROUTE 5 (NB LANE CLOSURE)	630.00		630.00		630.00	
489+37.50	495+67.50	ROUTE 5 (NB LANE CLOSURE)	630.00		630.00		630.00	
497+92.50		ROUTE 5 (SB & NB LANE CLOSURE)	-			12.00	12.00	1 - SOLID STOP BAR 12' WIDE
497+92.50	502+92.50	ROUTE 5 (SB & NB LANE CLOSURE)	500.00	1000.00			1000.00	DOUBLE YELLOW
SUB TOTAL							4544.00	
TOTAL				2000.00	2520.00	24.00		
USE				2000	2520	24		

PERMANENT PAVEMENT MARKING							
STA.	STA.	LOCATION	LENGTH FT	CLASS 1 PAVEMENT MARKING PAINT, 18 MIL, TYPE P BEADS		PAVEMENT MARKING REMOVAL LF	REMARKS
				4" INT. YELLOW LF	4" SOLID WHITE LF		
476+78.00	480+75.00	ROUTE 5	397.00	99.25		397.00	CENTERLINE MARKING
486+54.00	488+16.50	ROUTE 5	162.50	40.63	325.00		EDGE LINES AND CENTERLINE
493+95.00	497+92.50	ROUTE 5	397.50	99.38		397.50	CENTERLINE MARKING
SUB TOTAL						794.50	
SUB TOTAL TEMP. PAVM'T MARKING						4544.00	
TOTAL				239.26	325.00	5338.50	
USE				239	325	5339	

MOBILIZATION
1 LUMP SUM



DATE PREPARED 8/12/2025	
ROUTE 5	STATE MO
DISTRICT CD	SHEET NO. 3
COUNTY HOWARD	
JOB NO. J5P3532	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION						
DATE						

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EFFECTIVE: 07-01-2025																					
SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	ITEM	TOTAL	DESCRIPTION	
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.			IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.			NUMBER	QTY		
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	2	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						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						END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020	2	REPLACEMENT SAND BARREL	
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030	2	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	26	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	2	32.00			12	SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00						SPEED LIMIT XX	6161040		FLASHING ARROW PANEL	
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT	
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER	



WO20-1

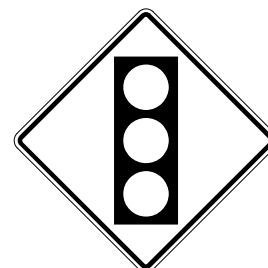
2

BRIDGE
OR
RAMP



WO20-4

7



WO3 - 3

12

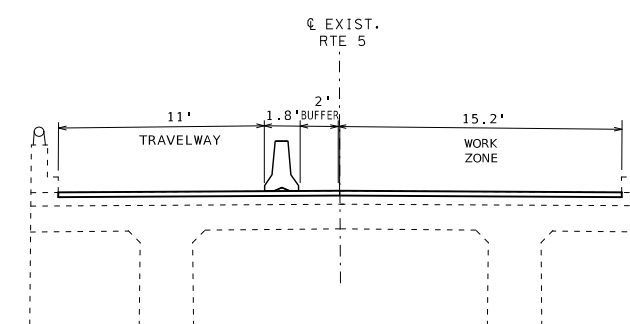
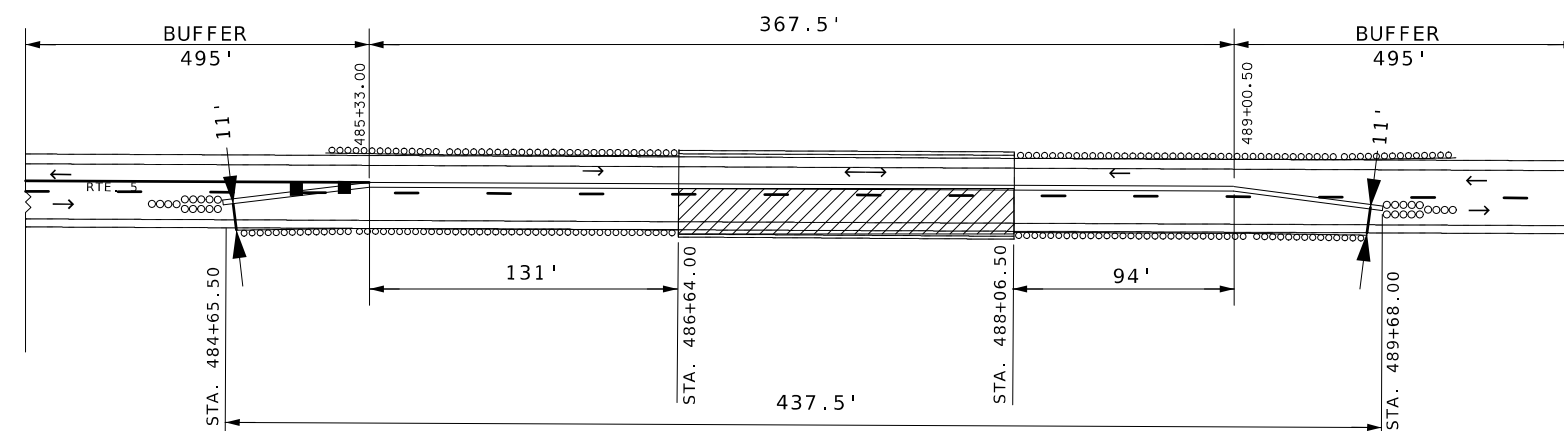
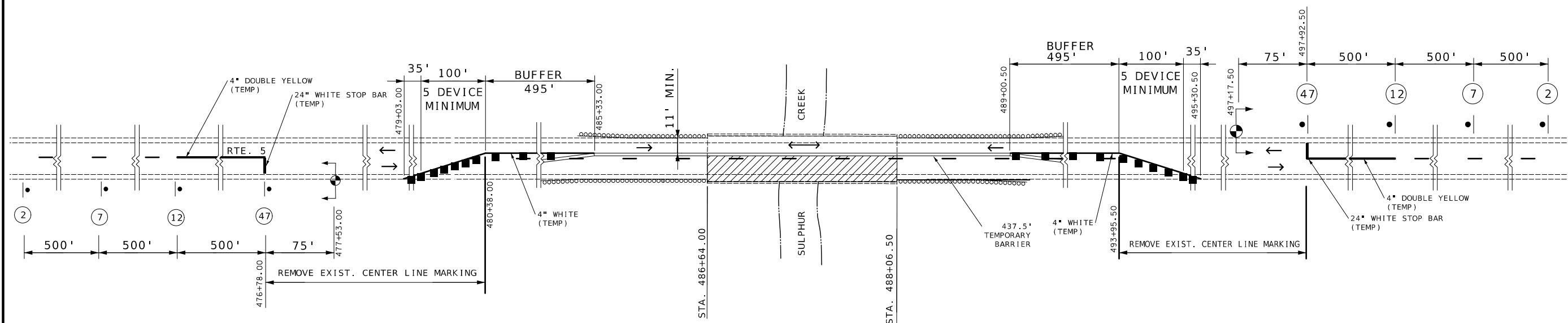


R10-6L

47

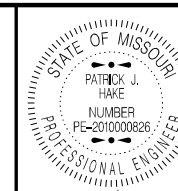
NOTES :

USE IN PLACE EXISTING GUARDRAIL.



NOT TO SCALE

TRAFFIC CONTROL
SB LANE CLOSURE
SHEET 1 OF 4



08/12/2025 10:40:53 AM
PATRICK J. HAKE - CI

DATE PREPARED

8/12/202

ROUTE	S*
-------	----

5	M
---	---

DISTRICT	SHE
----------	-----

CD	
----	--

COUNTY

HOWARD

JOB NO.
15858

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



WO20-1

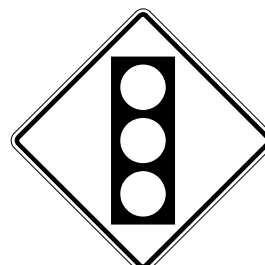
(2)

BRIDGE
OR
RAMP



WO20-4

(7)



WO3-3

(12)

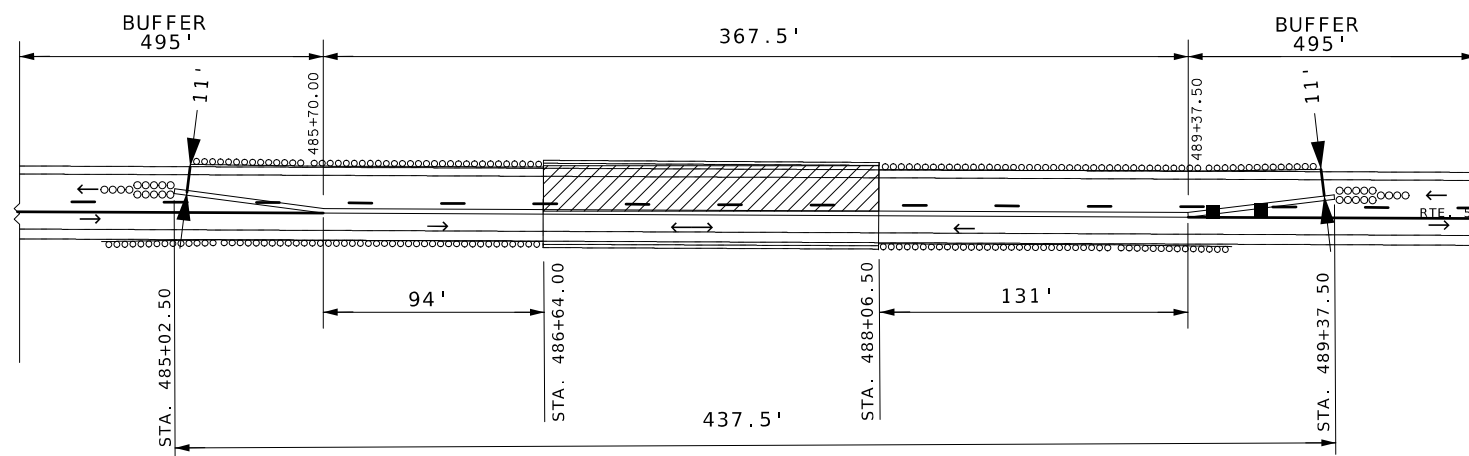
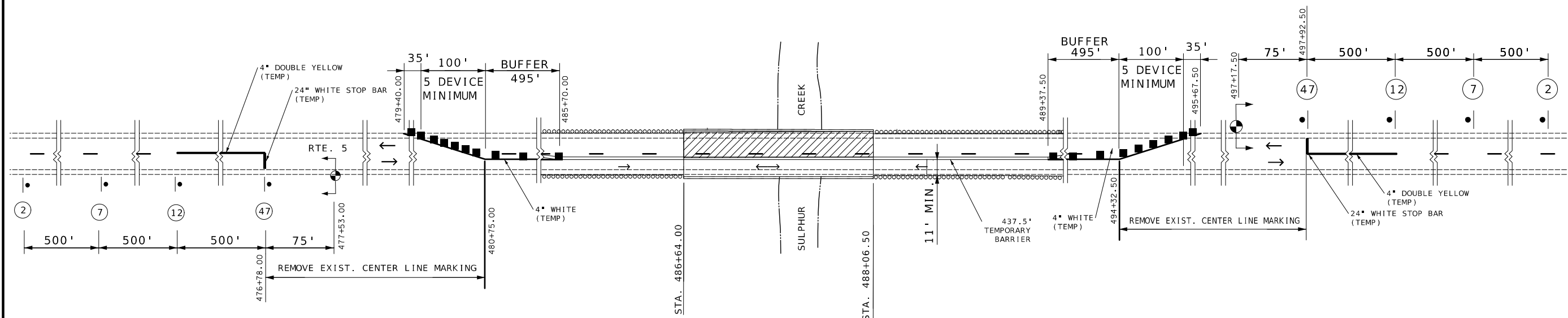


R10-6L

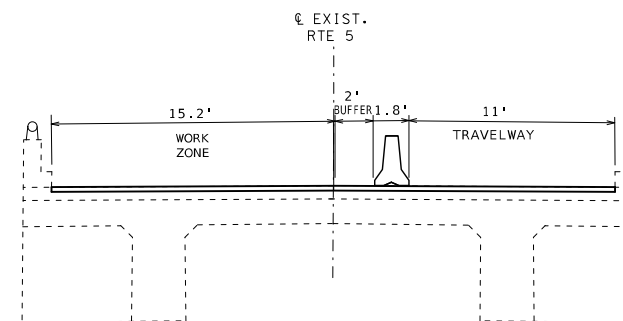
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NOTES:

USE IN PLACE EXISTING GUARDRAIL.



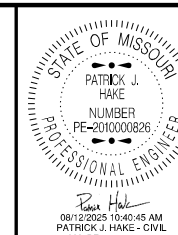
TEMPORARY TRAFFIC BARRIER DETAIL NB LANE CLOSURE



BRIDGE TYPICAL SECTION
TEMPORARY BARRIER LOCATION

NOT TO SCALE

TRAFFIC CONTROL
NB LANE CLOSURE
SHEET 2 OF 4



DATE PREPARED

8/12/2025

ROUTE 5

STATE MO

DISTRICT CD

SHEET NO. 5

COUNTY

HOWARD

JOB NO.

J5P3532

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

Sign Spacing, Device Spacing
and Channelizing Taper Lengths

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

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

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

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
- EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

◐ SIGN (DOUBLE SIDED)

⚠ FLAGGER

■ CHANNELIZER

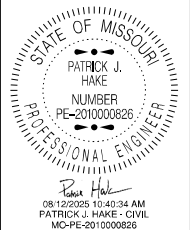
⚡ BARRICADE

📄 CHANGEABLE MESSAGE BOARD

👉 FLASHING ARROW PANEL

🚚 TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL

🚦 TEMPORARY SIGNAL



DATE PREPARED 8/12/2025	
ROUTE 5	STATE MO
DISTRICT CD	SHEET NO. 6
COUNTY HOWARD	
JOB NO. J5P3532	
CONTRACT ID.	

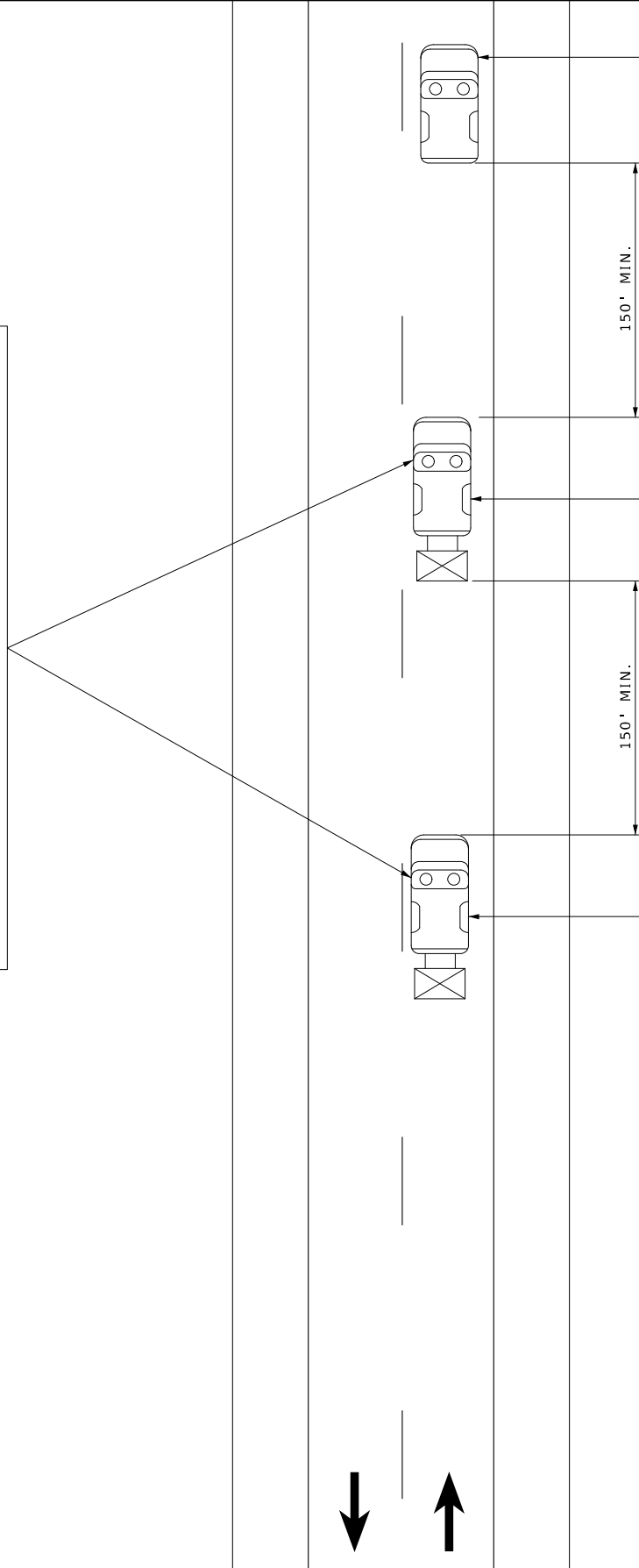
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



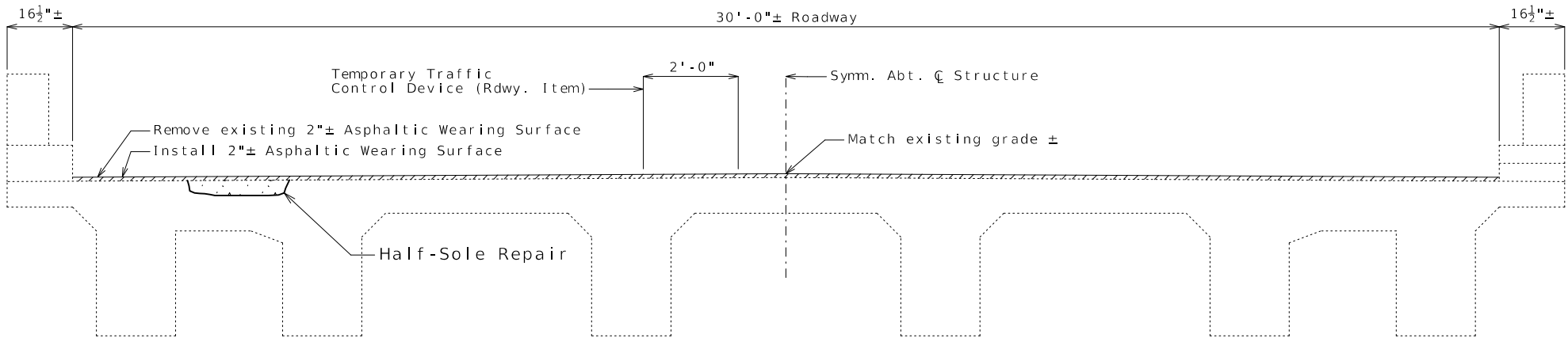
NOT TO SCALE

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

 **MoDOT**

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

REHABILITATE AND U.I.P. (45',45',45') CONCRETE DECK GIRDER SPANS (SKEW: 20°00'00" L.A.)



TYPICAL SECTION THRU EXISTING DECK

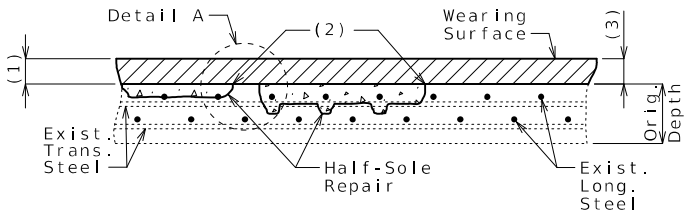
Optional Asphaltic Concrete Wearing Surface	
Type of Wearing Surface with Asphalt Binder Type	Mix Used (✓)
SP125BSM Mix with PG 76-22	
SP125BLP Mix with PG 76-22	
SP125BSM Mix with PG 70-22	
SP125CLP Mix with PG 70-22	

MoDOT construction personnel shall complete column labeled "Mix Used (✓)".

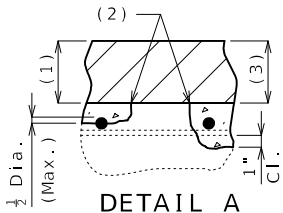
The contractor shall select one of the optional asphaltic concrete wearing surfaces listed in the table. The mixture shall be in accordance with Sec 403 and produced in accordance with Sec 404.

The area of the asphaltic concrete wearing surface will be measured and computed to the nearest square yard. This area will be measured transversely from out to out of wearing surface and longitudinally from end of slab to end of slab.

Payment for Optional Asphaltic Concrete Wearing Surface will be considered completely covered by the contract unit price per square yard.



HALF-SOLE REPAIR



DETAIL A

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

- (1) Removal of existing 2"± asphalt wearing surface
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) 2" minimum Asphaltic wearing surface

Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	4,275
Optional Asphaltic Concrete Wearing Surface (Bridges)	sq. yard	475
Tack Coat	gallon	190
Half-Sole Repair	sq. foot	200

REPAIRS TO BRIDGE: ROUTE 5 OVER SULPHUR CREEK

ROUTE 5 FROM ROUTE P TO ROUTE 40
ABOUT 0.75 MILES SOUTH OF ROUTE P
BEGINNING STATION 486+64.00 (MATCH EXISTING ±)

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 5

Design Loading:

H20-44 (1965) ; HS20-44 (New Construction)

Design Unit Stresses:

Class B-2 Concrete (Half-Sole Repair) f'c = 4,000 psi

Miscellaneous:

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible.

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

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

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

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

In order to maintain grade and a minimum thickness of wearing surface as shown on plans, it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for the variations in thickness of wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction.

STATE OF MISSOURI

TIMOTHY D. LEAF

NUMBER

PE-2012000778

PROFESSIONAL ENGINEER

08/11/2025 1:01:15 PM

TIMOTHY D. LEAF - CIVIL

MO-PE-2012000778

DATE PREPARED

8/11/2025

ROUTE

5

DISTRICT

BR

STATE

MO

SHEET NO.

1

COUNTY

HOWARD

JOB NO.

J5P3532

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

H02662

DESCRIPTION

DATE

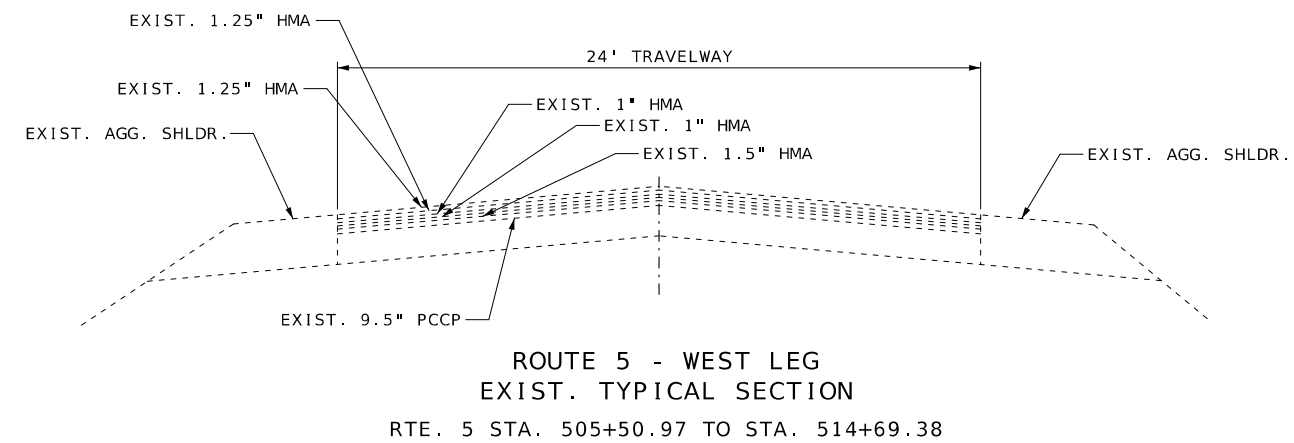
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)



TYPICAL SECTION
SHEET 1 OF 2

REMOVAL OF IMPROVEMENTS							
STATION	STATION	LOCATION	SIGNS (EA.)	SAW CUTS (FT.)	PAVEMENT (SY.)	15" RCP (FT.)	REMARKS
506+28.01	-	RTE 5 - LT	1				ADOPT-A-HIGHWAY SIGN - TAKE TO NEAREST MAINTENANCE FACILITY
507+66.69	-	RTE 5 - LT	1				YIELD SIGN
510+44.62	-	RTE 5 - RT	1				YIELD SIGN
510+98.94	-	RTE 5 - LT	1				STOP SIGN
64+91.14	-	RTE 40 - LT	1				ADOPT-A-HIGHWAY SIGN - TAKE TO NEAREST MAINTENANCE FACILITY
510+86.90	-	RTE 5 - RT				43	
505+50.97	-	RTE 5		24			BEGIN PROJECT
510+99.38	511+25.12	RTE 5 - RT		25.75			EXIST WEST ROUTE 5 END
511+04.19	511+24.49	RTE 5 - LT		20.3			EXIST WEST ROUTE 5 AND ROUTE 40 JOINT
61+67.70	62+24.74	RTE 40 - LT		57.04			EXIST EAST ROUTE 5 END
67+46.95	68+44.46	RTE 40 - LT		97.51			EXIST EAST ROUTE 5 AND ROUTE 40 JOINT
505+64.83	507+14.24	RTE 5 - LT			50		REMOVAL OF TEMP. SHLDR.
510+63.62	510+93.79	RTE 5 - LT			61.20		REMOVAL OF TEMP. PVMT.
		SUB TOTAL	5	224.6	111.2	43	
		TOTAL =	1 LUMP SUM				

TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)						
STATION	STATION	LOG MILE	LOG MILE	LOCATION	AREA (SY)	REMARKS
509+55.30	511+25.28			RTE 5	2305.00	BEGIN PROJECT - STAGE 1 - PVMT + SHLDRS
67+08.89	68+03.23			RTE 40	254.10	STAGE 2
505+50.97	509+55.30			RTE 5	901.60	STAGE 4 - PVMT + SHLDRS
505+50.97	509+55.30			RTE 5	662.90	STAGE 5 LIMITS - PVMT + SHLDRS
61+67.89	64+12.89			RTE 40	441.80	STAGE 6 - PVMT + SHLDRS
67+08.88	68+44.46			RTE 40	218.69	STAGE 6 - PVMT + SHLDRS
507+31.97	507+83.38			RTE 5 - RT	101.00	DRIVEWAY OPT. PVMT. STAGE 4
510+63.62	510+93.79			RTE. 5	61.20	TEMP. PAVEMENT - STAGE 2
505+64.83	507+14.24			RTE. 5 - LT	50	TEMP. SHOULDER STAGE 3
				TOTAL	4996.29	
				USE	4997	

ROUTE 5 AND 40 OPTIONAL PAVEMENT (10.5" HMA OR 9" PCCP)				
STATION	STATION	LOCATION	AREA (SY)	REMARKS
509+55.30	511+25.28	RTE 5	2157.90	BEGIN PROJECT - STAGE 1
67+08.89	68+03.23	RTE 40	254.10	STAGE 2
505+50.97	509+55.30	RTE 5	780.10	STAGE 4
505+50.97	509+55.30	RTE 5	530.70	STAGE 5 LIMITS
61+67.89	64+12.89	RTE 40	350.40	STAGE 6
67+08.88	68+44.46	RTE 40	173.50	STAGE 6
510+63.62	510+93.79	RTE. 5	61.20	TEMP. PAVEMENT - STAGE 2
		TOTAL	4307.90	
		USE	4308	AREAS TAKEN FROM OPENROADS DESIGNER

DRIVEWAY OPTIONAL PAVEMENT (5.75" HMA OR 5.75" PCCP)				
STATION	STATION	LOCATION	AREA (SY)	REMARKS
507+31.97	507+83.38	RTE. 5 - RT	100.50	DRIVEWAY ENTRANCE FOR PIPELINE STATION
		TOTAL	100.5	
		USE	101	AREAS TAKEN FROM OPENROADS DESIGNER

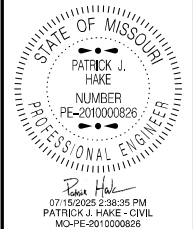
PERMANENT PAVEMENT MARKING									
STATION	STATION	LOCATION	CLASS 1 PAVEMENT MARKING PAINT (18-MIL), TYPE P BEADS			PREFORMED THERMOPLASTIC			REMARKS
			4" WHITE (LF)	4" YELLOW (LF)	8" WHITE (LF)	24" WHITE (LF)	24" YELLOW (LF)	LEFT/RIGHT ARROW (EACH)	
505+50.97	511+25.28	RTE 5	981.4	1090.6	150.5	12		4	SEE PAVEMENT MARKING SHEET
57+48.53	72+25.82	RTE 40	3372.2	2382.3		77.3	152.5	4	SEE PAVEMENT MARKING SHEET
		TOTAL	4353.6	3472.9	150.5	89.3	152.5	8.0	
		USE	4354	3473	151	90	153	8	

2.5" BP-1(PG 64-22)								
STATION	STATION	LOCATION	LENGTH (FT)	AVERAGE WIDTH (FT)	THICKNESS (IN)	BITUMINOUS MIX 1.948 TON/CUYD (TONS)	TACK COAT (GAL)	REMARKS
57+48.53	61+67.70	RTE. 40	419.17	VARIABLES	2.5	209.42	154.8	BEGIN PROJECT
61+67.70	68+44.46	RTE. 40	676.76	24	2.5	244.13	180.5	
68+44.46	72+25.82	RTE. 40	381.36	VARIABLES	2.5	197.95	146.3	END PROJECT
					TOTAL	651.50	481.6	ESTIMATE FACTORS:
					USE	651.5	482	TACK COAT (MILLED ASPHALT/ CONCRETE SURFACE) = 0.10 GAL/SY
								BIT. PAVEMENT MIX PG 64-22 = 1.948 TONS/CY

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 4



DATE PREPARED 7/15/2025	
ROUTE 5/40	STATE MO
DISTRICT CD	SHEET NO. 3
COUNTY HOWARD	
JOB NO. JCD0110	
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)

COLDMILLING (3" THICK OR LESS)						
STATION	STATION	LOCATION	LENGTH (FT.)	WIDTH (FT.)	QUANTITY (SY.)	REMARKS
57+48.53	61+67.70	RTE. 40	419.17	VARIES	1548.1	BEGIN PROJECT
61+67.70	68+44.46	RTE. 40	676.76	24	1804.7	
68+44.46	72+25.82	RTE. 40	381.36	VARIES	1463.3	END PROJECT
				TOTAL	4816.1	
				USE	4817	

PAVEMENT MARKING REMOVAL				
STATION	STATION	LOCATION	PAVEMENT MARKING REMOVAL (LF)	REMARKS
500+75.97	511+84.04	RTE 5	1108.1	STAGE 4 FROM NORTH STOP BAR TO END OF EXIST EAST LEG
56+46.76	74+12.69	RTE 40	1765.9	STAGE 4 FROM WEST SIGNAL STOP BAR TO EAST SIGNAL STOP BAR
		TOTAL	2874.0	
		USE	2874	

EARTHWORK					
STATION	STATION	LOCATION	CLASS A EXCAVATION C.Y.	COMPACTING EMBANKMENT C.Y.	REMARKS
505+50.97	509+89.61	RTE 5	1388.42	860.49	
61+67.90	68+44.46	RTE 40	3528.60	1643.93	
		TOTAL	4917.02	2504.42	0.84 SHRINKAGE FACTOR APPLIED TO
		USE	4918	2505	CLASS A EXCAVATION
ALL EARTHWORK EXCAVATION AND EMBANKMENT IN PLACE SHALL FOLLOW PRELIMINARY GEOTECHNICAL					

TYPE A2 SHOULDER						
STATION	STATION	LOG MILE	LOG MILE	LOCATION	NET LENGTH (FT)	AREA (SY)
509+55.30	511+25.28			RTE 5	227.70	75.90
509+55.30	511+25.28			RTE 5	213.60	71.20
505+50.97	507+31.97			RTE 5	183.30	61.10
507+83.38	509+55.30			RTE 5	181.20	60.40
505+50.97	509+55.30			RTE 5	396.60	132.20
61+67.89	64+12.89			RTE 40	274.20	91.40
67+08.88	68+44.46			RTE 40	135.57	45.19
505+64.83	507+14.24			RTE 5 - LT	149.41	49.80
				TOTAL		587.19
				USE		588.00

OPTIONAL SHOULDER														
STATION	STATION	LOG MILE	LOG MILE	LOCATION	NET LENGTH (FT)	2 1/2" BP-1 (PG 64-22)			3 1/4" BIT. BASE (PG 64-22)			TACK COAT (GAL)	MODIFIED LINEAR GRADING, CLASS 2 (STA.)	REMARKS
						CROSS SEC* AREA SQ FT.	VOLUME CY	QUANTITY TONS	CROSS SEC. AREA SQ FT.	VOLUME CY	QUANTITY TONS			
		108.013	108.072	RTE 40 - LT	311.52	0.6626	7.64	14.88	0.9469	10.93	21.24	4.62	3.12	BEGIN PROJECT
		108.018	108.070	RTE 40 - RT	274.56	0.6626	6.74	13.13	0.9469	9.63	18.71	4.07	2.75	
		108.120	108.256	RTE 40 - LT	718.08	0.6626	17.62	34.32	0.9469	25.18	48.92	10.64	7.18	
		108.120	108.730	RTE 40 - RT	3220.8	0.6626	79.04	153.97	0.9469	112.95	219.46	47.72	32.21	
		108.268	108.451	RTE 40 - LT	966.24	0.6626	23.71	46.19	0.9469	33.89	65.85	14.32	9.66	
68+44.46	72+94.67			RTE 40 - LT	450.21	0.6626	11.05	21.53	0.9469	15.79	30.68	6.67	4.50	END PROJECT
														ESTIMATE FACTORS:
				TOTAL				284.02			404.86	88.04	59.42	BP-1 PAVE MIX = 1.948 TON/CY
				USE				284.1			404.9	88.1	60	BIT BASE MIX = 1.943 TON/CY
* PER SIDE - INCLUDES SAFETY EDGE														TACK COAT = 0.05 GAL/SY

GRAVEL (A) OR CRUSHED STONE (B)					
STATION	STATION	LOG MILE	LOG MILE	LOCATION	GRAVEL (A) OR CRUSHED STONE (B) TON
		107.999	108.099	RTE 40 - LT	4.563
		108.008	108.12	RTE 40 - RT	5.111
62+54.34	63+07.23			RTE 40 - RT	0.457
				TOTAL	10.131
				USE	11

REMARK

PRIVATE ENTRANCE

PRIVATE ENTRANCE

PRIVATE ENTRANCE

ESTIMATE FACTOR:

1.40 TONS/CY

TEMPORARY REMOVEABLE MARKING TAPE				
STATION	STATION	LOCATION	REMOVEABLE MARKING TAPE 4 IN, WHITE (LF)	REMARKS
502+51.06	510+62.88	RTE 5	822.1	STAGE 4 - WEST TAPER TO TEMPORARY PAVEMENT
58+71.76	67+08.88	RTE 40	837.1	STAGE 4 - NORTH TAPER TO TEMPORARY PAVEMENT
503+02.00	509+55.35	RTE 5	654.3	STAGE 5 & 6 - NORTH TAPER TO END OF WORK ZONE
58+71.76	65+32.87	RTE 40	748.5	STAGE 5 & 6 - WEST RADIUS TAPE, USE TAPE FROM STAGE 4
65+53.52	71+87.69	RTE 40	714.0	STAGE 5 & 6 - EAST RADIUS TO EAST TAPER
		TOTAL	3776.0	
		USE	3776	

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

07/15/2025 2:38:28 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

7/15/2025

ROUTE

5/40

STATE

MO

DISTRICT

CD

SHEET NO.

3

COUNTY

HOWARD

JOB NO.

JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		ITEM	TOTAL	EFFECTIVE: 07-01-2024
SIGN	IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NUM.	DESCRIPTION	SIGN	IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NUM.	DESCRIPTION	NUMBER	QTY	DESCRIPTION
WARNING SIGNS									GUIDE SIGNS											
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122012	2	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00						END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122020	2	REPLACEMENT SAND BARREL
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)	6122030	2	IMPACT ATTENUATOR (RELOCATION)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM
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)	6161025	100	CHANNELIZER (TRIM LINE)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161030		TYPE III MOVEABLE BARRICADE
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161040		FLASHING ARROW PANEL
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3-3	48X48	16.00	3	48.00			12	SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00						SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161098A	3	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6162000A	1	WORK ZONE TRAFFIC SIGNAL SYSTEM
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6162002	3	TEMPORARY LONG-TERM RUMBLE STRIPS
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6173600D	615	TEMPORARY TRAFFIC BARRIER
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6175010A	378	RELOCATING TEMPORARY TRAFFIC BARRIER
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6176000B		TEMPORARY TRAFFIC BARRIER
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6177000B		COMMISSION FURNISHED/RETAINED
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	9029400		TEMPORARY TRAFFIC SIGNALS
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)			
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)			
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED			
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE			
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00	3	18.00			47	STOP HERE ON RED (45^ ARROW)			
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED			
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD			
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY			
WO8-11	48X48	16.00						UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC			
WO8-12	48X48	16.00						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	3	36.00				POINT OF PRESENCE			
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00						POINT OF PRESENCE			
WO8-17R	30X24	5.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	3	36.00				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	3	48.00	3	48.00	2	ROAD/BRIDGE/RAMP WORK AHEAD												
WO20-2	48X48	16.00						DETOUR AHEAD												
WO20-3	48X48	16.00						ROAD CLOSED AHEAD												
WO20-4	48X48	16.00	5	80.00	5	80.00	7	ONE LANE ROAD AHEAD	616-10.05	CONSTRUCTION SIGNS			TOTAL							
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10	RELOCATED SIGNS				TOTAL						
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD							176					
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED												
WO20-7a	48X48	16.00	3	48.00	3	48.00	40	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	4	8.76				WET PAINT (ARROW PIVOTS)												
SUMMARY OF QUANTITIES																			SHEET 4 OF 4	

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

•RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM
STATION 505+51.02 TO 513+63.18 A DISTANCE
OF 0.154 MILES

CALCULATED POSTION OF WEST QUARTER CORNER
OF S33, T49N, R16W PER MLS DOC#600-28327

 MILL / FILL

1
RICHARDSON JACK
ADMINISTRATIVE TRUST

4,119 S.F. TEMP. EASEMENT
230.5 ACRES REMAINING

2.5" MILL AND FILL
4,776.3 SY
652 TONS/BIT.
BP-1 PAVEMENT MIX (PG 64-22)
481.6 GAL TACK COAT

SEE DRIVEWAY DETAILS
ON SPECIAL SHEET 4

V-DITCH
STA. 507+94.36 TO
STA. 508+14.36

TYPE A2 SHOULDERS—

ROUTE 5 PROPOSED C

V-DITCH
STA. 506+55.92
STA. 507+31.97

V-DITCH
STA. 507+94.36 TO
STA. 508+14.36

START STA 505+50.97
PROP. RTE 5 = STA 505+50.97
EXIST. RTE. 5
PC STA

NW 1/4 OF SW 1/4
S33 T49N, R16W

2
HOWARD COUNTY FBOP

3,328 S.F. TEMP. EASEMENT
35.6 ACRES REMAINING

A $509 + 89.62$
 $\underline{510}$

— RTE 5/40
OPTIONAL

— SAW CUT

EXIST MODOT R/W

~~EXIST MODOT R/W~~

PLAN SHEET
SHEET 1 OF 3

SE 1/4 OF S4 1/4
SEC 32 T45N, R16W

CUNNINGHAM JOSEPH M
& TERESA

SW 1/4 OF SW 1/4
SEC 33 T45N, R16W

OWARD COUNTY FROM

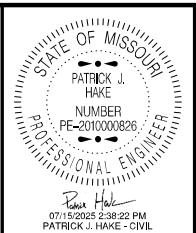
RTE. 40
EXIST @

KIRCHER KENDALL ROY
& LISA LUAN

STA 68+44.46 |
END OPT. PVMIT.

SCALE

0 60 120 180



MO-PE-2010000826
DATE PREPARED
7/15/2025

ROUTE 5 / 40	STATE MO
DISTRICT CD	SHEET NO. 4

COUNTY
HOWARD

JOB NO.
JCD0110
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

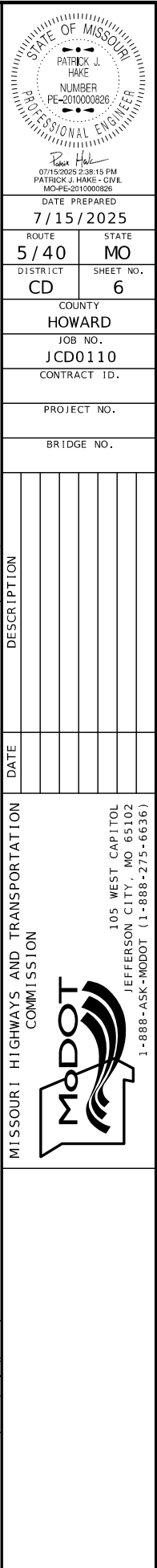
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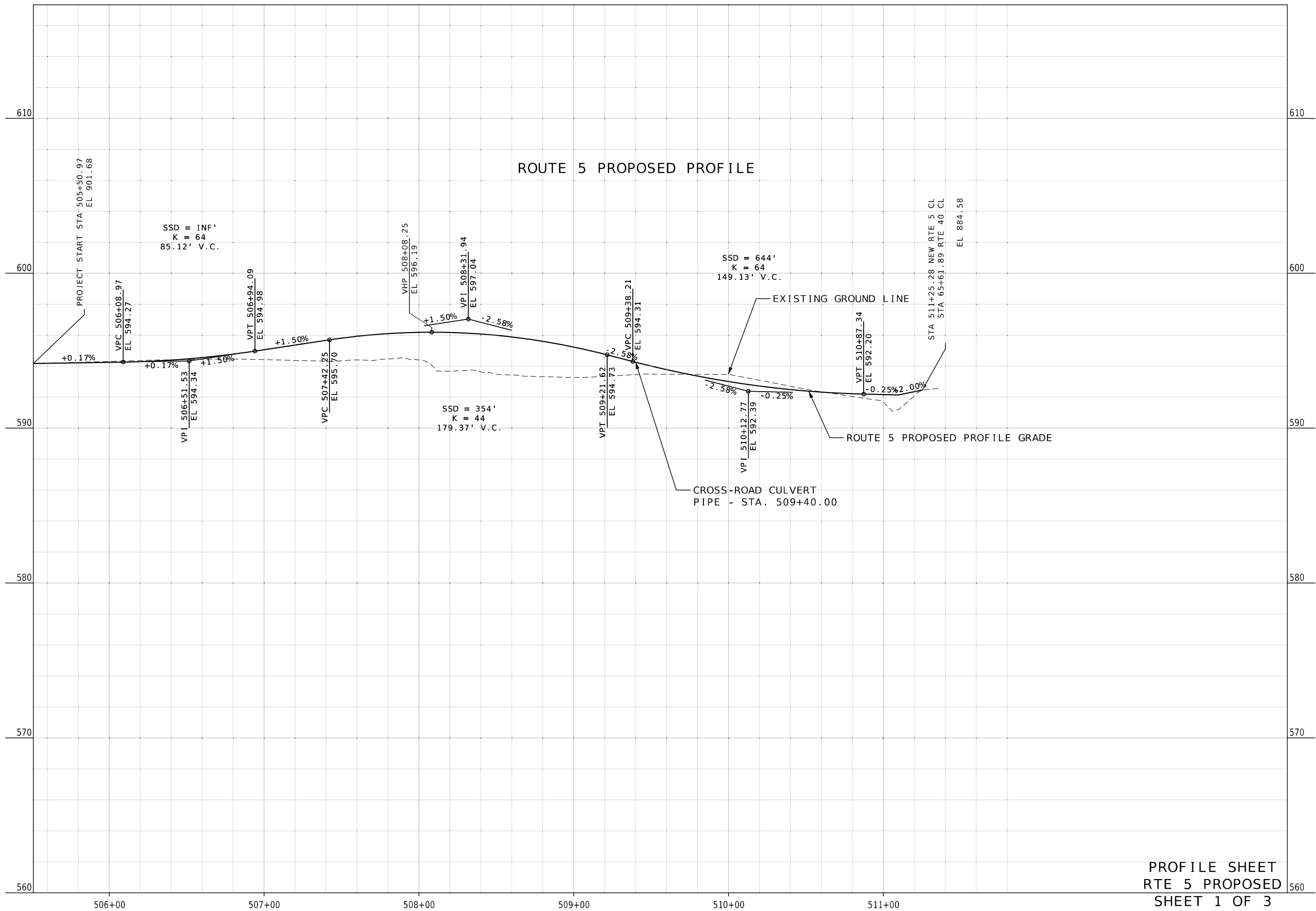
DATE _____

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

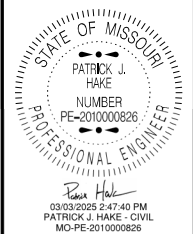


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





PROFILE SHEET
RTE 5 PROPOSED
SHEET 1 OF 3



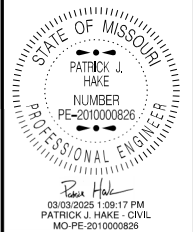
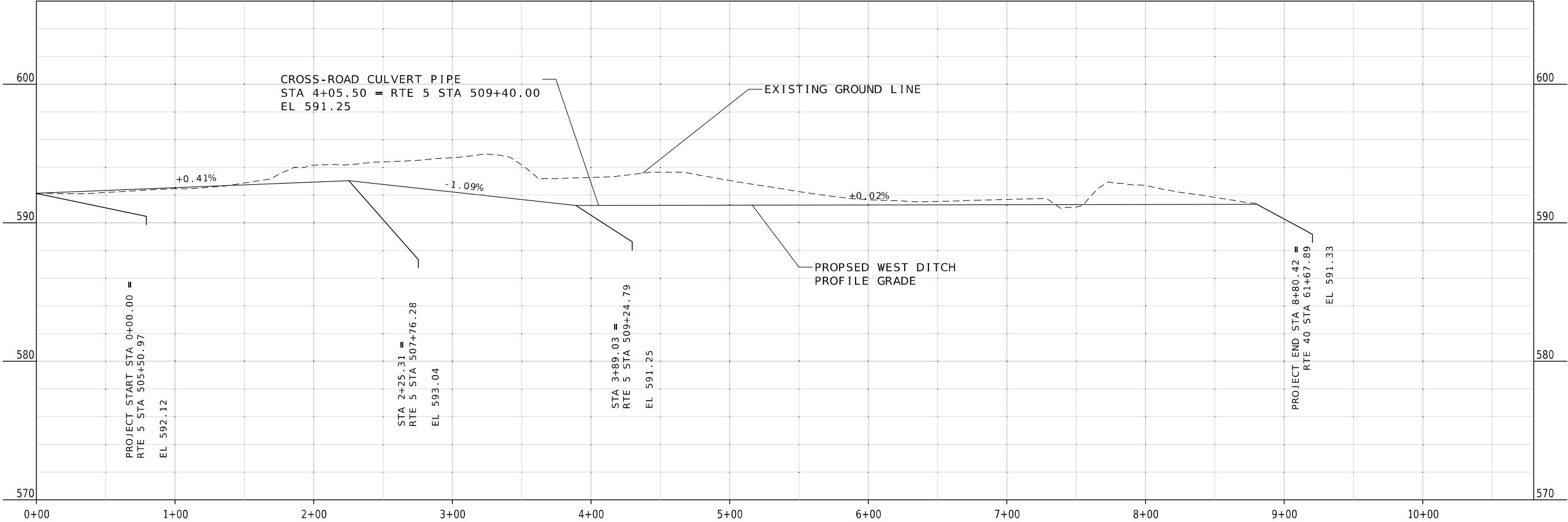
DATE PREPARED 3/3/2025	
ROUTE 5/40	STATE MO
DISTRICT CD	SHEET NO. 7
COUNTY HOWARD	
JOB NO. JCD0110	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

ROUTE 5 / 40 WEST DITCH



DATE PREPARED 3/3/2025	
ROUTE 5/40	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY HOWARD	
JOB NO. JCD0110	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

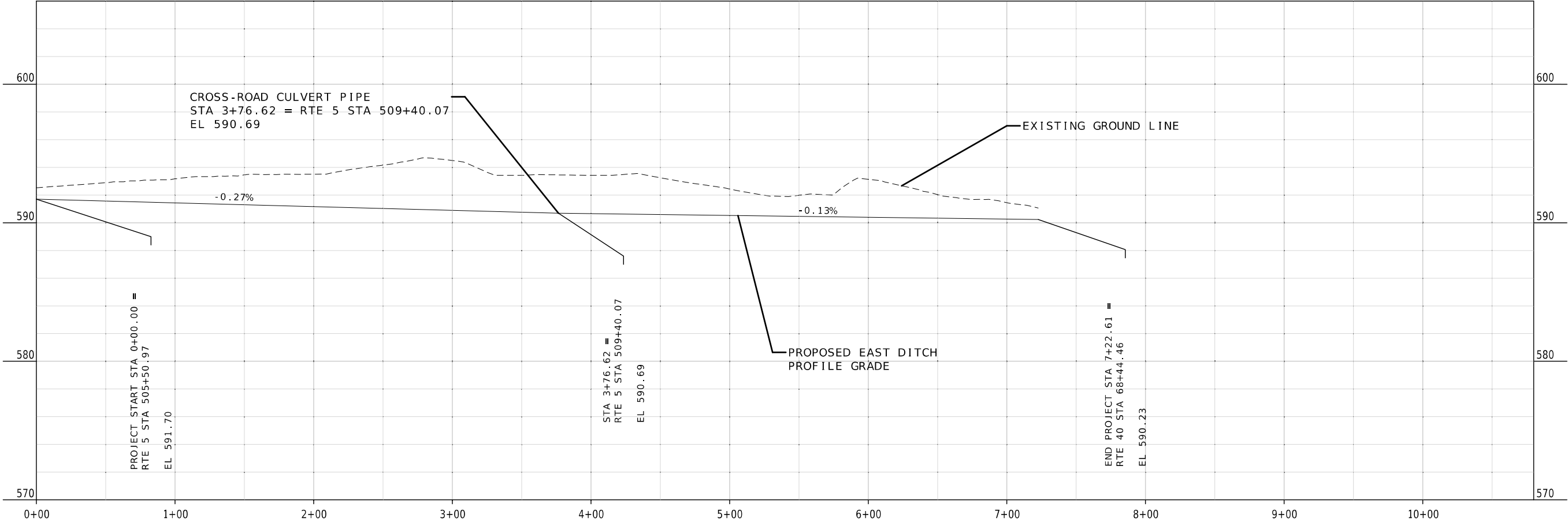
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

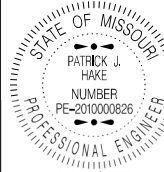


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ROUTE 5 / 40 EAST DITCH



PROFILE SHEET
RTE 5 / 40 EAST DITCH
SHEET 3 OF 3



DATE PREPARED
3/3/2025

ROUTE 5 / 40 STATE MO

DISTRICT CD SHEET NO. 9

COUNTY HOWARD

JOB NO. JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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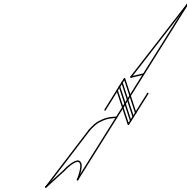
DATE

DESCRIPTION

DATE

DESCRIPTION

SHOULDER WIDENING

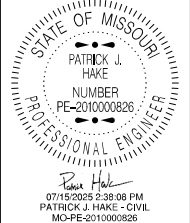
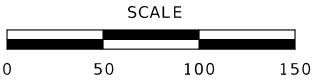
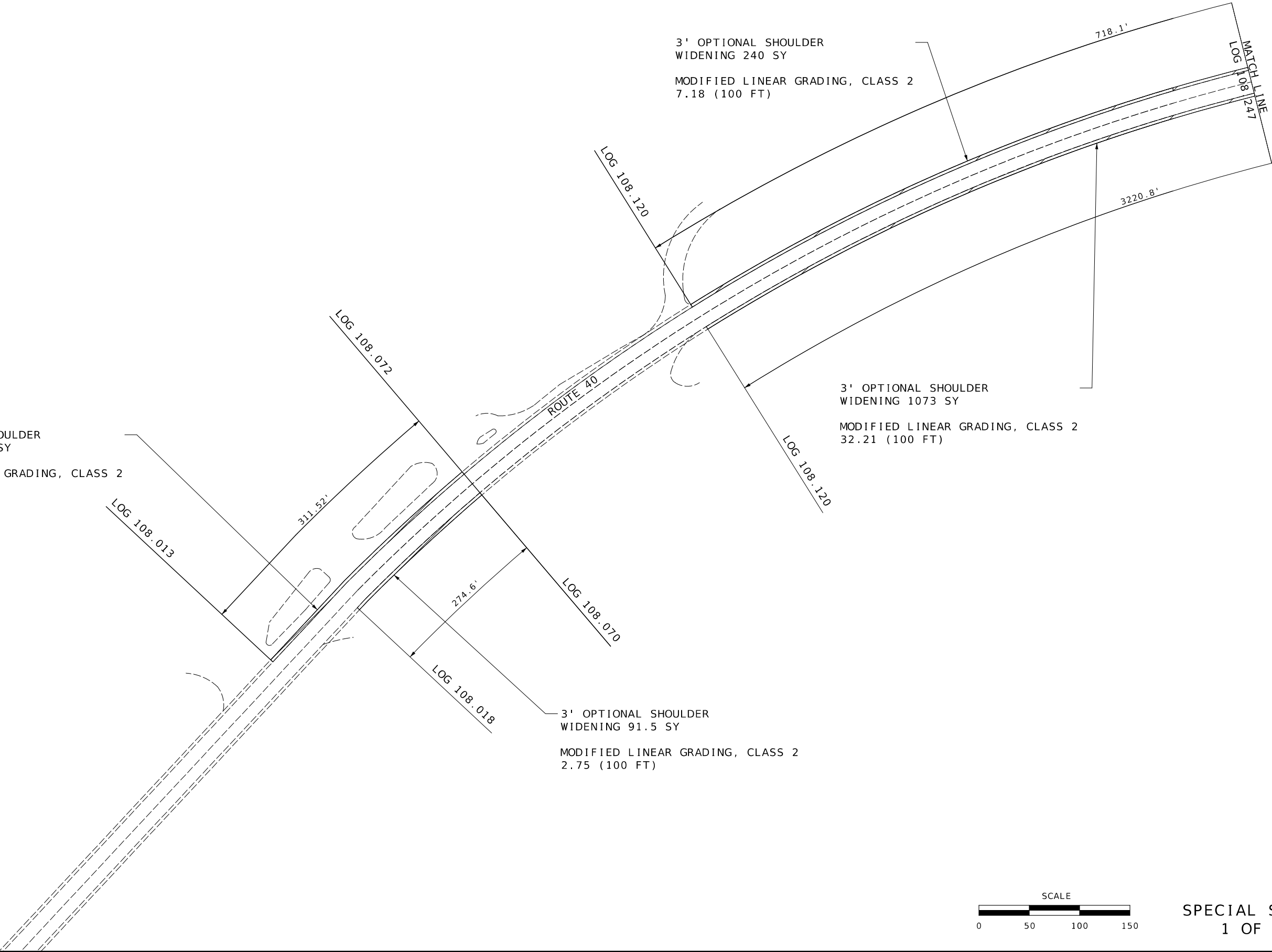


3' OPTIONAL SHOULDER
WIDENING 103.9 SY
MODIFIED LINEAR GRADING, CLASS 2
3.12 (100 FT)

3' OPTIONAL SHOULDER
WIDENING 240 SY
MODIFIED LINEAR GRADING, CLASS 2
7.18 (100 FT)

3' OPTIONAL SHOULDER
WIDENING 1073 SY
MODIFIED LINEAR GRADING, CLASS 2
32.21 (100 FT)

3' OPTIONAL SHOULDER
WIDENING 91.5 SY
MODIFIED LINEAR GRADING, CLASS 2
2.75 (100 FT)



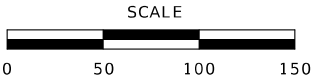
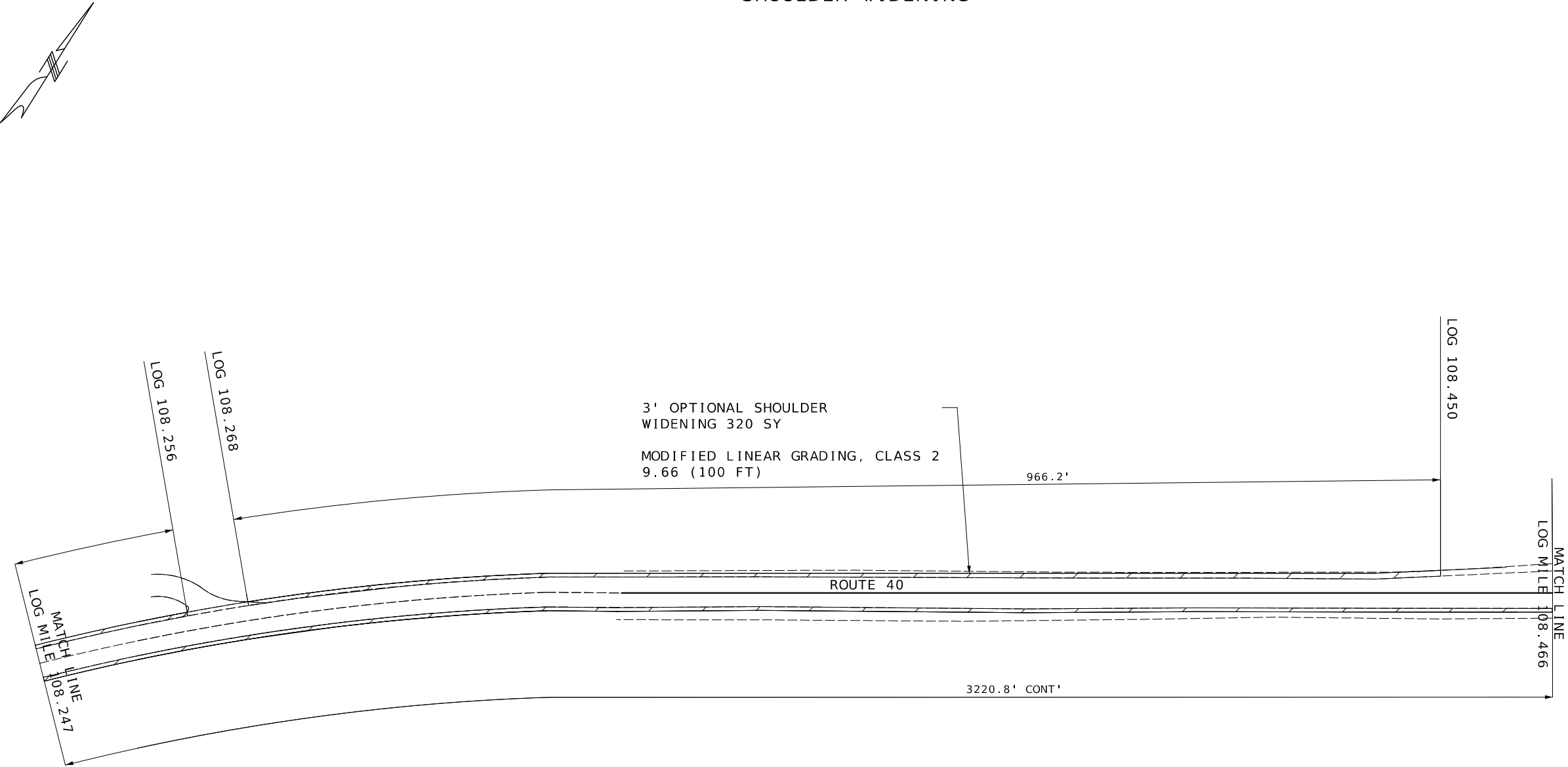
DATE PREPARED 7/15/2025	
ROUTE 5/40	STATE MO
DISTRICT CD	SHEET NO. 10
COUNTY HOWARD	
JOB NO. JCD0110	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

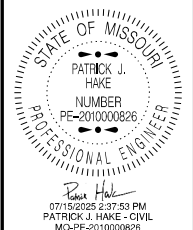
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

SHOULDER WIDENING



SPECIAL SHEET
2 OF 4



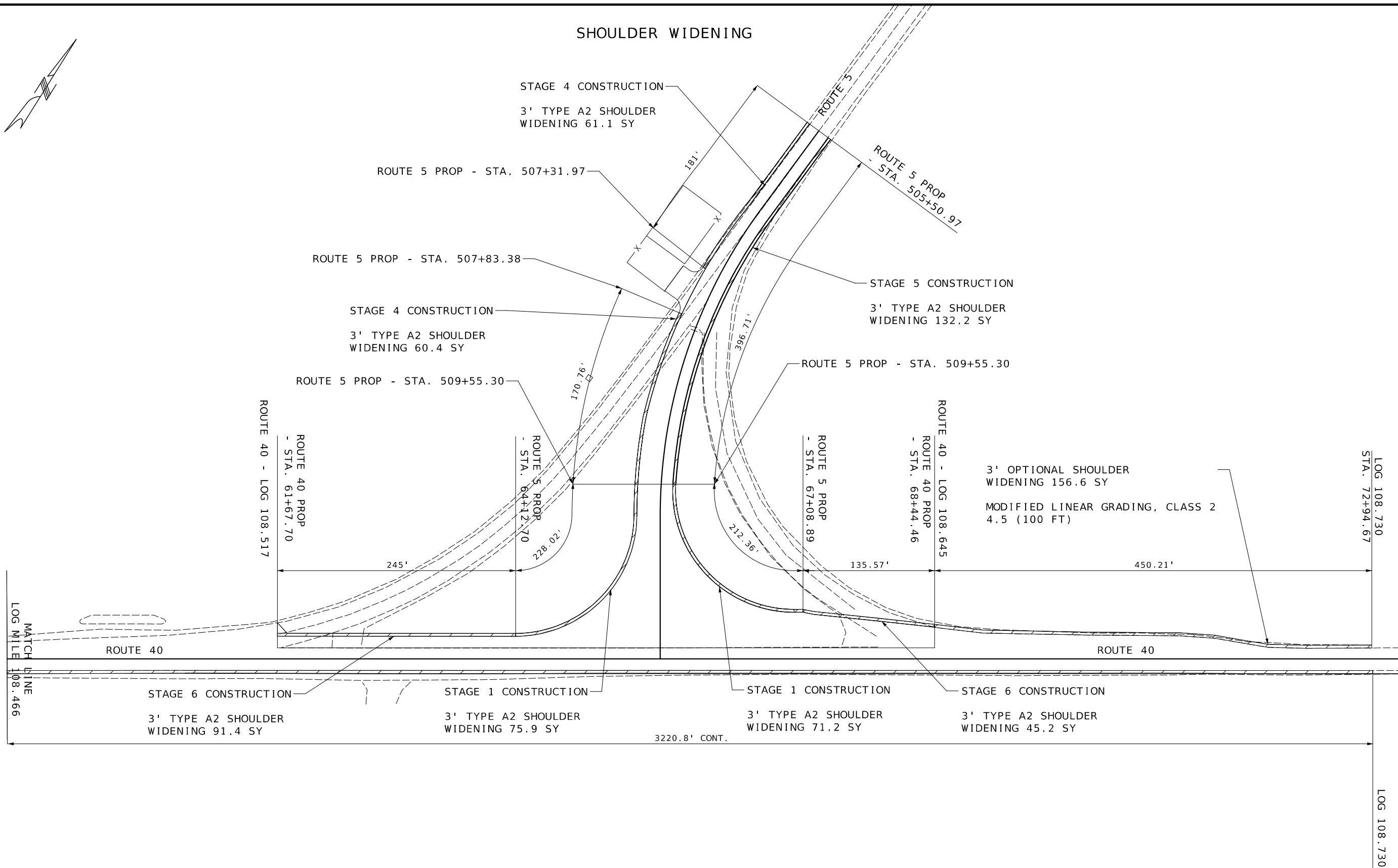
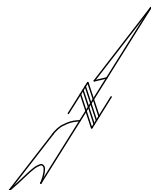
DATE PREPARED 7/15/2025	
ROUTE 5/40	STATE MO
DISTRICT CD	SHEET NO. 11
COUNTY HOWARD	
JOB NO. JCD0110	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

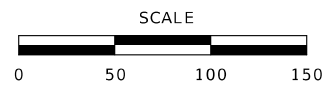


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



MATCH LINE
LOG MILE 108.466

LOG 108.730
STA. 72+94.67
LOG 108.730



SPECIAL SHEET
3 OF 4



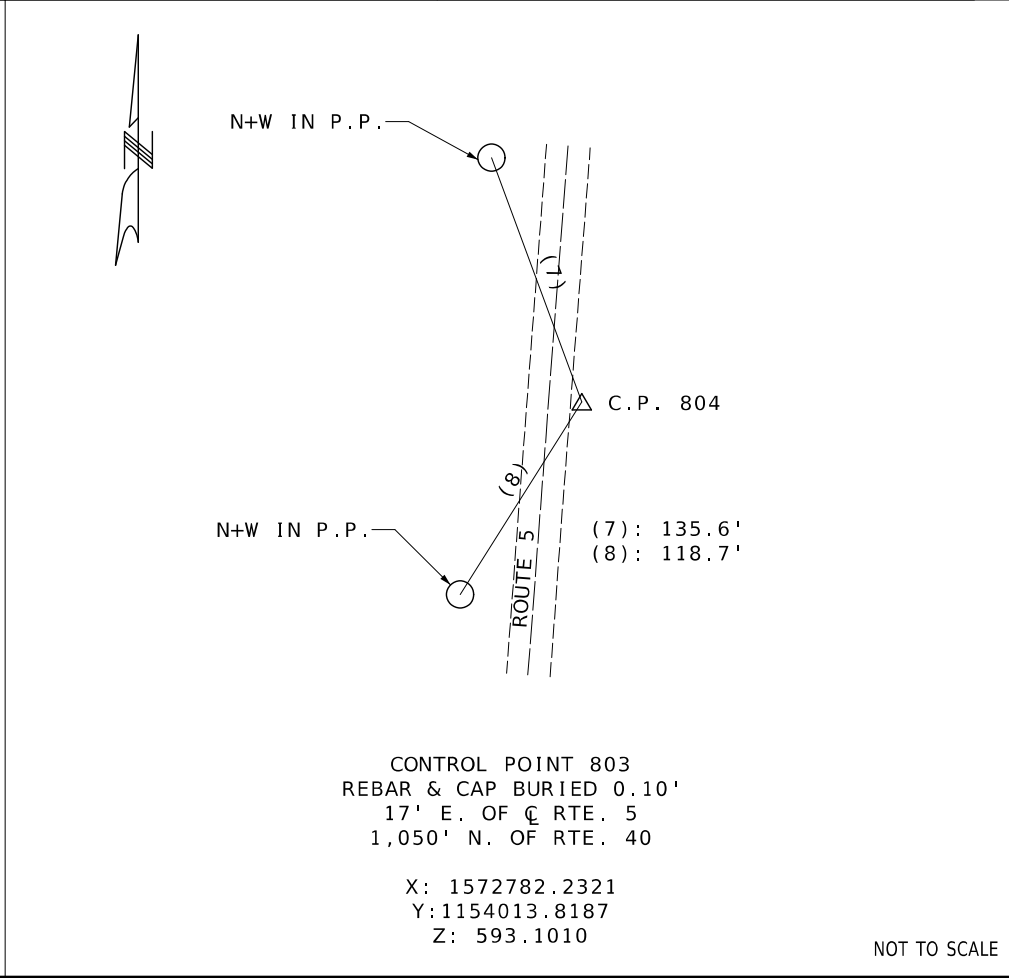
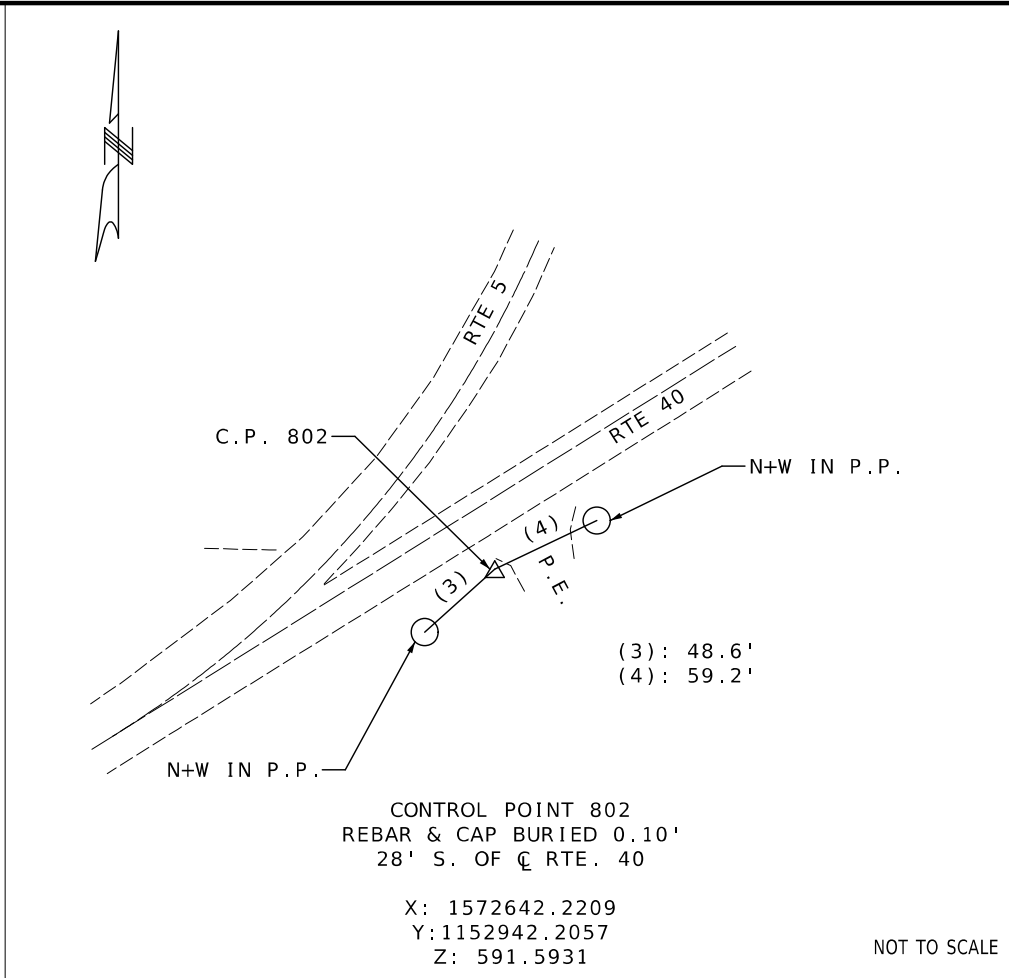
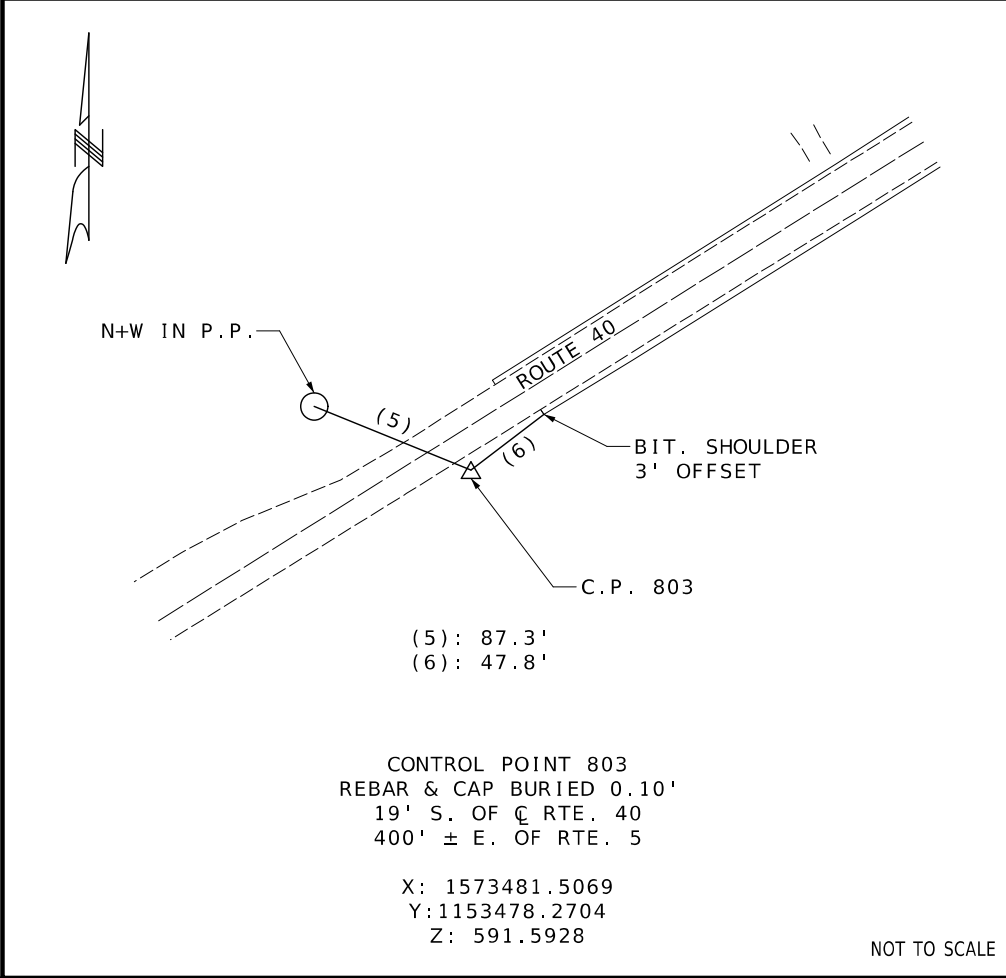
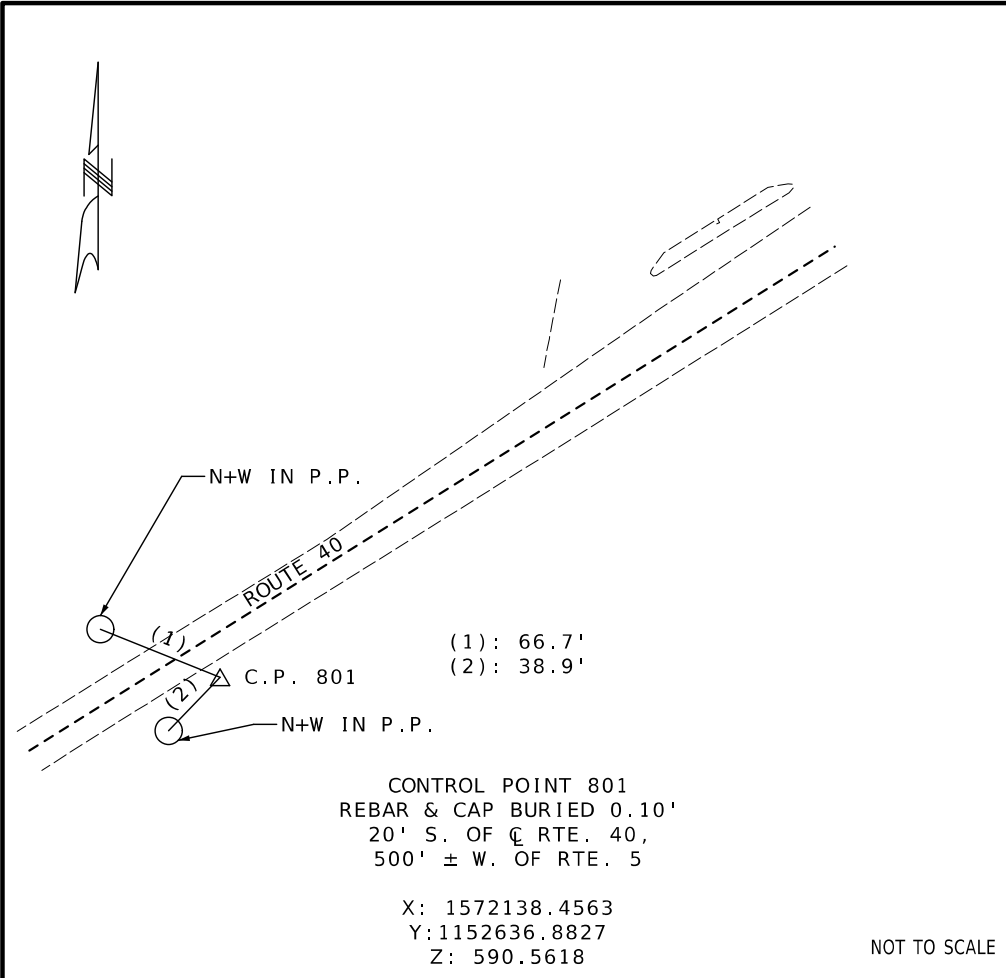
DATE PREPARED
7/15/2025
ROUTE 5/40
STATE MO
DISTRICT CD
SHEET NO. 12
COUNTY HOWARD
JOB NO. JCD0110
CONTRACT ID.

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)





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

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	G2018U7
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING FREDRICK WILDE
PROJECT PROJECTION FACTOR	1.00091400
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	NAD83 (2011)
CONTROL STATION	CORS
DESIGNATION	MODOT BOONVILLE CORS ARP
CORS_ID	MOBO
PID	DN6077
LATITUDE	385552.5337
LONGITUDE	924643.6592
NORTHING (M)	343837.0270
EASTING (M)	475827.3000
ZONE	2402 (MO-CENTRAL)
PROJECT AVERAGE GRID FACTOR	0.99990810
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING	
EXAMPLE: CONTROL POINT #801 N 1572138.456 X 0.99990810 = N 1571993.976 E 1152636.883 X 0.99990810 = E 1152530.956	
LINEAR UNIT CONVERSION	
1 METER = 3.280833333 US SURVEY FEET (USFT)	

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

09/03/2025 1:11:43 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

3/3/2025

ROUTE

5/40

STATE

MO

DISTRICT

CD

SHEET NO.

14

COUNTY

HOWARD

JOB NO.

JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

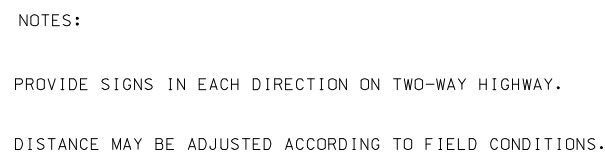
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

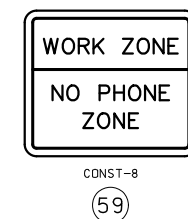
JEFFERSON CITY, MO 65102

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

MODOT



THE CONTRACTOR SHALL BE REQUIRED TO STAGE CONSTRUCTION AT EXISTING ENTRANCES TO PROVIDE INGRESS AND EGRESS AS APPROVED BY THE ENGINEER.

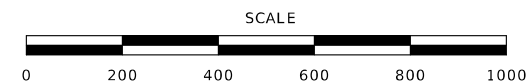


LONG-TERM RUMBLE STRIPS	
PERMANENT POSTED (MPH)	SPACING (4)
0-45 (OPTIONAL)	10-12 FT
50-55	10-12 FT
60-70	10-12 FT

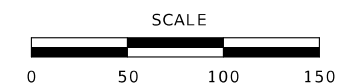
SEE TRAFFIC CONTROL SHEETS 2 AND 3 FOR
PLACEMENT OF LONG TERM RUMBLE STRIPS

[illegible]

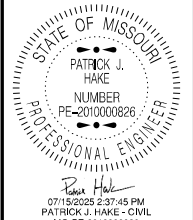
	SIGN (SINGLE SIDED)
	FLAGGER
	CHANNELIZER (TRIM LINE)
	TYPE III MOVEABLE BARRICADE
	CHANGEABLE MESSAGE BOARD
	PROPOSED PERMANENT PAVEMENT
	TEMPORARY SACRIFICIAL PAVEMENT
	PAVEMENT REMOVAL

[illegible]

	SIGN (SINGLE SIDED)
	FLAGGER
	CHANNELIZER (TRIM LINE)
	TYPE III MOVEABLE BARRICADE
	CHANGEABLE MESSAGE BOARD
	PROPOSED PERMANENT PAVEMENT
	TEMPORARY SACRIFICIAL PAVEMENT
	PAVEMENT REMOVAL



TRAFFIC CONTROL
SHEET 4 OF 10



DATE PREPARED

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

DISTRICT	SHEET NO.
CD	19

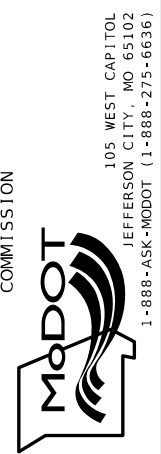
COUNTY
HOWARD

JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

STAGE 2 CONSTRUCTION

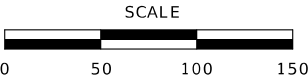
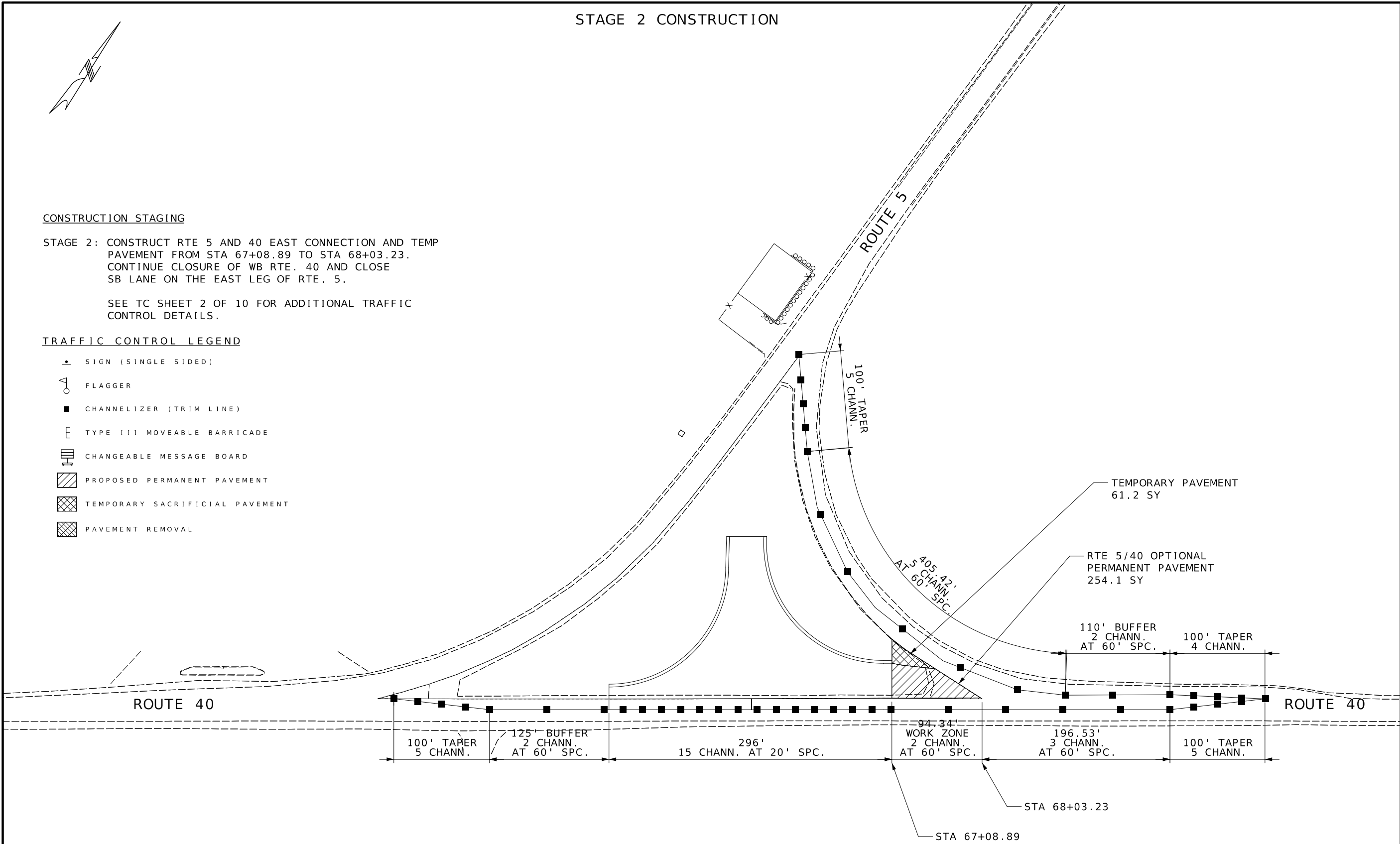
CONSTRUCTION STAGING

STAGE 2: CONSTRUCT RTE 5 AND 40 EAST CONNECTION AND TEMP PAVEMENT FROM STA 67+08.89 TO STA 68+03.23. CONTINUE CLOSURE OF WB RTE. 40 AND CLOSE SB LANE ON THE EAST LEG OF RTE. 5.

SEE TC SHEET 2 OF 10 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER (TRIM LINE)
- TYPE III MOVEABLE BARRICADE
- CHANGEABLE MESSAGE BOARD
- PROPOSED PERMANENT PAVEMENT
- TEMPORARY SACRIFICIAL PAVEMENT
- PAVEMENT REMOVAL



TRAFFIC CONTROL
SHEET 5 OF 10

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

07/15/2025 2:37:27 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

7/15/2025

ROUTE

5/40

STATE

MO

DISTRICT

CD

SHEET NO.

20

COUNTY

HOWARD

JOB NO.

JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

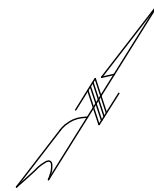
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

[illegible]

STAGE 3: CONSTRUCT TEMPORARY SHOULDER ON EAST LEG OF ROUTE 5
FROM STA 505+64.83 TO STA 507+14.24.

50 SY TEMP. SHOULDER
BEGIN AT EXIST PAVED SHOULDER

—STA 505+64.83

—STA 507+14.24

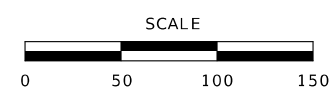
223.98'
3 CHANN.
AT 60' SPC.

111-27' TAPER
5' CHANN.
AT 20' SPC.

ROUTE 40

296'
15 CHANN. AT 20' SPC.

94.34'
5 CHANN.
AT 20' SPC.



TRAFFIC CONTROL
SHEET 6 OF 10



07/15/2025 2:37:35 PM
PATRICK J. HAKE - CIVIL
MO-PE-2010000826
DATE PREPARED

DATE PREPARED
7/15/2025

ROUTE	STATE
5 / 40	MO

DISTRICT	SHEET NO.
CD	21

COUNTY
HOWARD

JOB NO.
JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



STAGE 5 CONSTRUCTION

CONSTRUCTION STAGING

STAGE 5: REMOVE EXIST PAVEMENT ON RTE 5 EAST LEG FROM STA 505+50.97 TO STA 511+84.04.

REMOVE TEMP PAVEMENT ON RTE 5 EAST LEG FROM STA 505+64.83 TO STA 507+14.24.

CONSTRUCT THE PROPOSED ROUTE 5 NB LANE FROM STA 505+50.97 TO STA 509+55.30.

SEE TRAFFIC CONTROL SHEET 3 OF 10 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER (TRIM LINE)
- TYPE III MOVEABLE BARRICADE
- CHANGEABLE MESSAGE BOARD
- PROPOSED PERMANENT PAVEMENT
- TEMPORARY SACRIFICIAL PAVEMENT
- PAVEMENT REMOVAL
- IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
- TEMPORARY TRAFFIC BARRIER (CONTRACTOR FURNISH/RETAIN)

STAGE 5 CONSTRUCTION TRAFFIC CONTROL

*** DISTANCE FROM BACK OF BARRIER TO WORKZONE:**

STA. 505+50.97 TO STA. 507+10.74 • DISTANCE IS $\leq 6'$ BUT $\geq 2'$ MOVABLE BARRIERS WILL REQUIRE TIE-DOWN STRAPS.

STA. 507+10.74 TO STA. 509+55.34 • DISTANCE IS $\geq 2'$ MOVABLE BARRIERS WILL NOT REQUIRE ANCHORAGE.

ROUTE 5

654.3' REMOVEABLE MARKING TAPE

IMPACT ATTENUATOR 55 MPH

RTE 5/40 OPTIONAL PERMANENT PAVEMENT 530.7 SY

STA 505+50.97

REMOVE TEMP. PAVEMENT 50 SY

378' RELOCATING TEMP TRAFFIC BARRIER

237' TEMP TR. BARRIER

404.28' WORK ZONE

3' TYPE A2 SHOULDER WIDENING 132.2 SY

18.95 TON BP-1
27.03 TON BIT BASE

STA 0+00.00

STA 509+55.30

REMOVE PAVEMENT 1,632.9 SY (CALC AS CLASS A EXC)

IMPACT ATTENUATOR 55 MPH

STA 511+84.04

714' REMOVEABLE MARKING TAPE

207.4' REMOVEABLE MARKING TAPE

ROUTE 40

100' TAPER 5 CHANN.

441.14' 7 CHANN. AT 60' SPC.

296' 15 CHANN. AT 25' SPC.

135.58' 2 CHANN. AT 60' SPC.

245' BUFFER 4' CHANN. AT 60' SPC.

100' TAPER 5 CHANN.

SCALE

0 50 100 150

ROUTE 40

TRAFFIC CONTROL SHEET 8 OF 10

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

DATE PREPARED

7/15/2025

ROUTE

5/40

STATE

MO

DISTRICT

CD

SHEET NO.

23

COUNTY

HOWARD

JOB NO.

JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

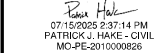
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT



7/15/2025	
ROUTE	STATE

CD 23

HOWARD
JOB NO.

CONTRACT ID.

BRIDGE NO.

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PTI					
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DES					
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E						
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-AT

WEST
LIT

NOTES



The logo of the National Fire Protection Association (NFPA) is located in the bottom right corner of the page. It features a stylized flame icon to the right of the text "NFPA".



10

STAGE 6 CONSTRUCTION

CONSTRUCTION STAGING

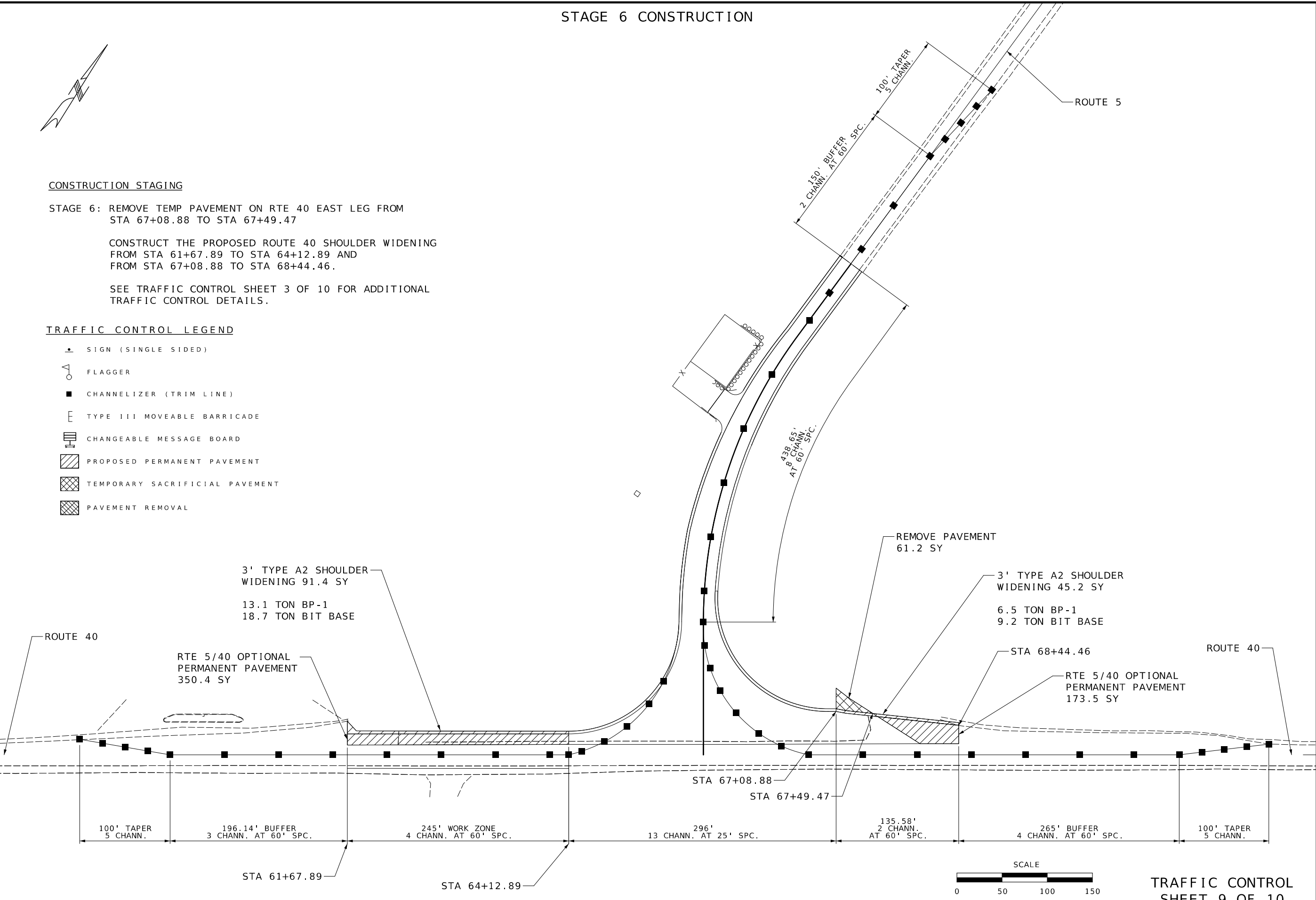
STAGE 6: REMOVE TEMP PAVEMENT ON RTE 40 EAST LEG FROM STA 67+08.88 TO STA 67+49.47

CONSTRUCT THE PROPOSED ROUTE 40 SHOULDER WIDENING FROM STA 61+67.89 TO STA 64+12.89 AND FROM STA 67+08.88 TO STA 68+44.46.

SEE TRAFFIC CONTROL SHEET 3 OF 10 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER (TRIM LINE)
- E TYPE III MOVEABLE BARRICADE
- CHANGEABLE MESSAGE BOARD
- PROPOSED PERMANENT PAVEMENT
- TEMPORARY SACRIFICIAL PAVEMENT
- PAVEMENT REMOVAL



STATE OF MISSOURI
PATRICK J. HAKE
NUMBER
PE-2010000826
PROFESSIONAL ENGINEER
Patrick J. Hake
07/15/2025 2:37:06 PM
PATRICK J. HAKE - CIVIL
MO-PE-2010000826

DATE PREPARED
7/15/2025

ROUTE
5/40

DISTRICT
CD

STATE
MO

SHEET NO.
24

COUNTY
HOWARD

JOB NO.
JCD0110

CONTRACT ID.

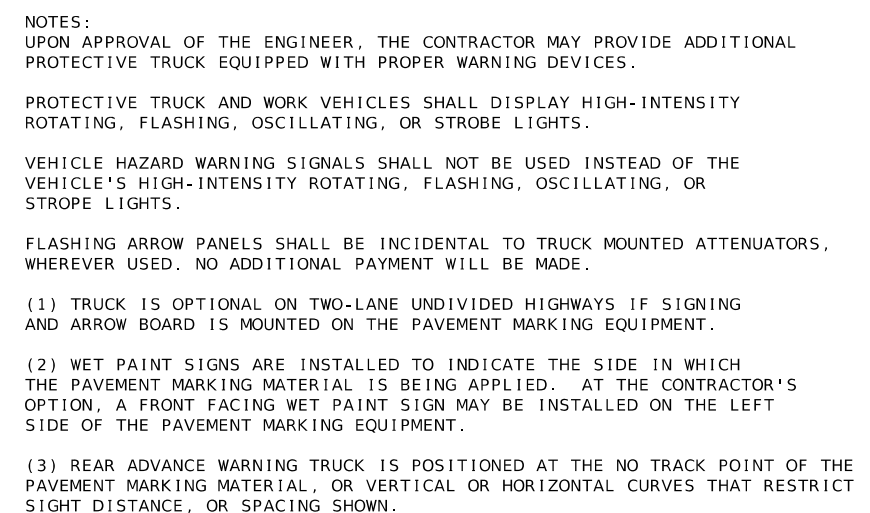
PROJECT NO.

BRIDGE NO.

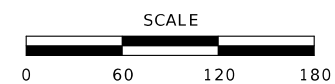
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

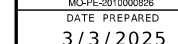
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



MISSOURI HIGHWAYS AUTHORITY
COMMISSION



EROSION CONTROL SHEET
SHEET 1 OF 1



ROUTE	STATE
5 / 40	MO

DISTRICT	SHEET 1
CD	26

COUNTY
HOWARD

JOB NO.
JCD0110

CONTRACT ID.

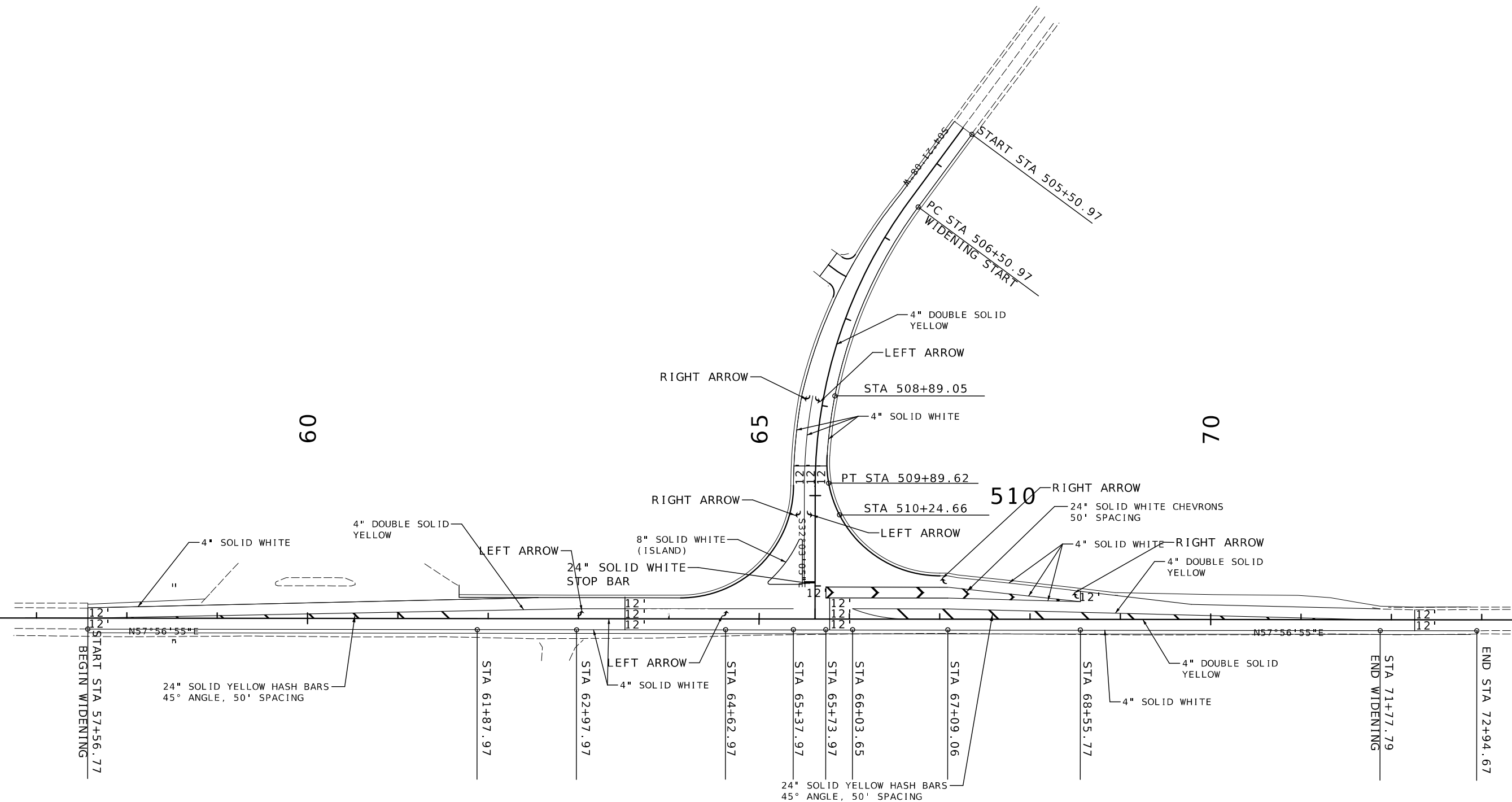
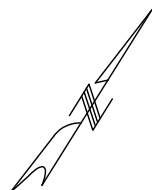
	PROJECT NO.
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BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO. 65102



DATE PREPARED
3/3/2025

ROUTE
5/40

STATE
MO

DISTRICT
CD

SHEET NO.
27

COUNTY
HOWARD

JOB NO.
JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

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DATE

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DATE

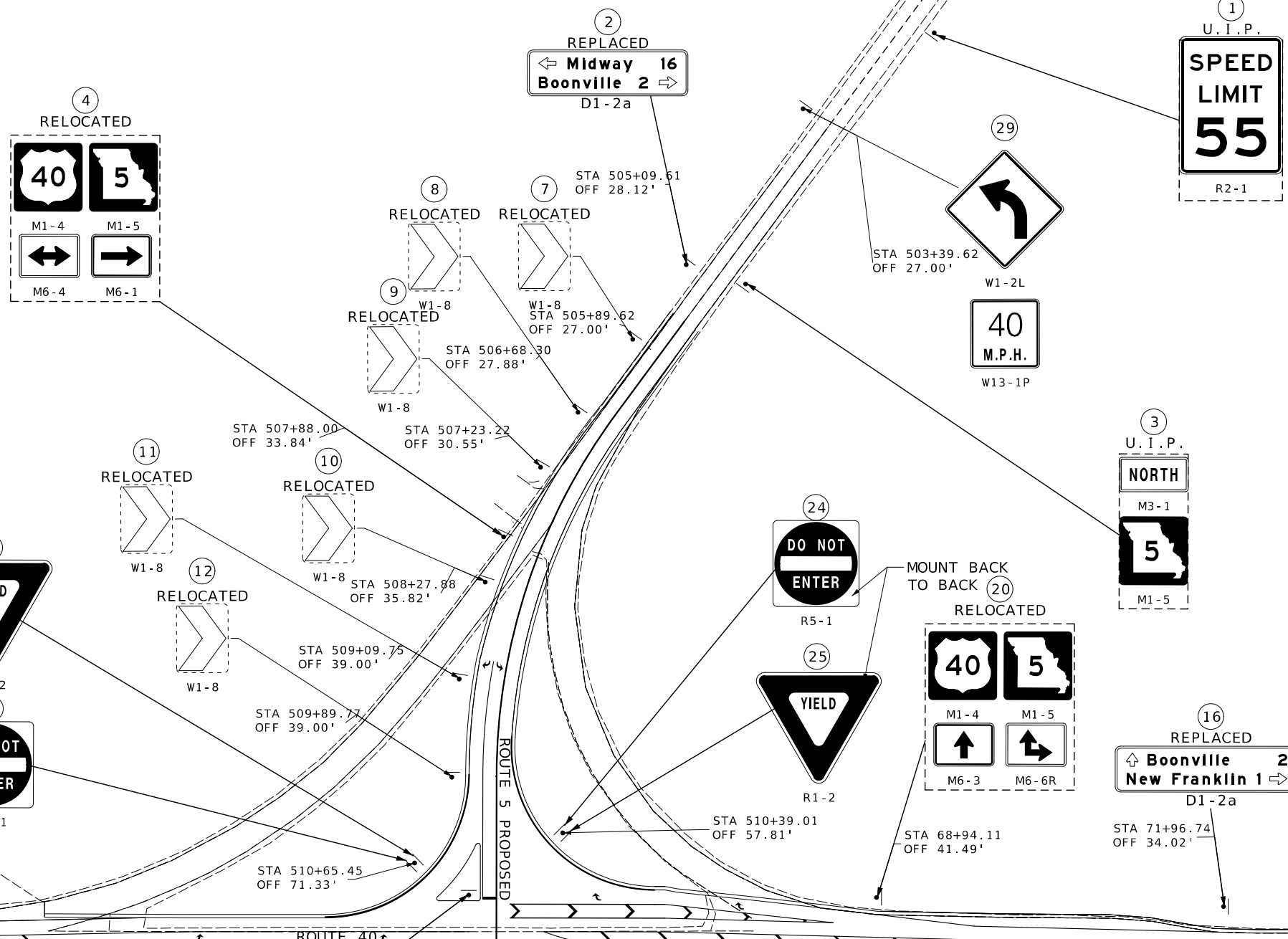
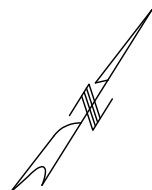
DATE

DATE

DATE

DATE

DATE



14 U.I.P.

SOUTH WEST

M3-3 M3-4

5 40

M1-5 M1-4

LEWIS-CLARK TRAIL

M17-2

22 YIELD

R1-2

23 DO NOT ENTER

R5-1

MOUNT BACK TO BACK

11 RELOCATED

W1-8

12 RELOCATED

W1-8

10 RELOCATED

W1-8

9 RELOCATED

W1-8

2 REPLACED

Midway 16

Boonville 2

D1-2a

1 U.I.P.

SPEED LIMIT

55

R2-1

29

40 M.P.H.

W13-1P

3 U.I.P.

NORTH

M3-1

5

M1-5

25 YIELD

R1-2

24 DO NOT ENTER

R5-1

MOUNT BACK TO BACK

20 RELOCATED

16 REPLACED

Boonville 2

New Franklin 1

D1-2a

17 U.I.P.

MIDWAY 16

NEW FRANKLIN 1

FAYETTE 11

D1-3a

18 U.I.P.

5 40

M1-5 M1-4

M6-1 M6-3

26 STOP

R1-1

27

GB-4

28

40 5

M1-4 M1-5

M6-4 M6-1

21 U.I.P.

EAST

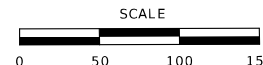
M3-2

40

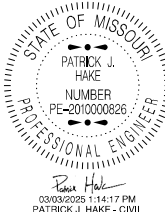
M1-4

LEWIS-CLARK TRAIL

M17-2



SIGNING SHEET
FINAL SIGNING
SHEET 2 OF 5



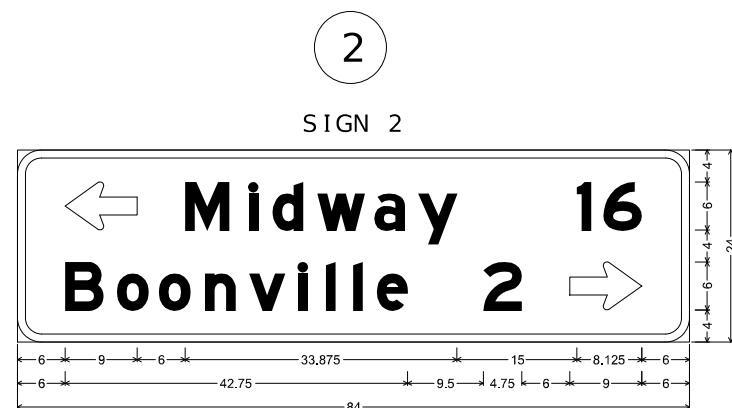
DATE PREPARED	
3/3/2025	
ROUTE	STATE
5/40	MO
DISTRICT	SHEET NO.
CD	29
COUNTY	
HOWARD	
JOB NO.	
JCD0110	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

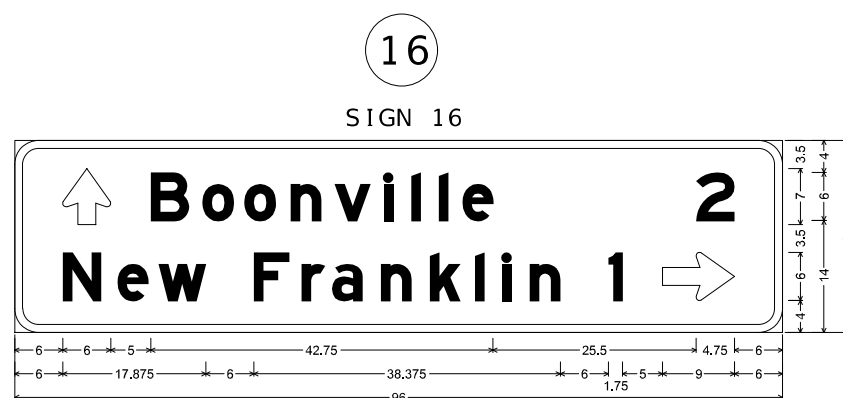
MoDOT

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



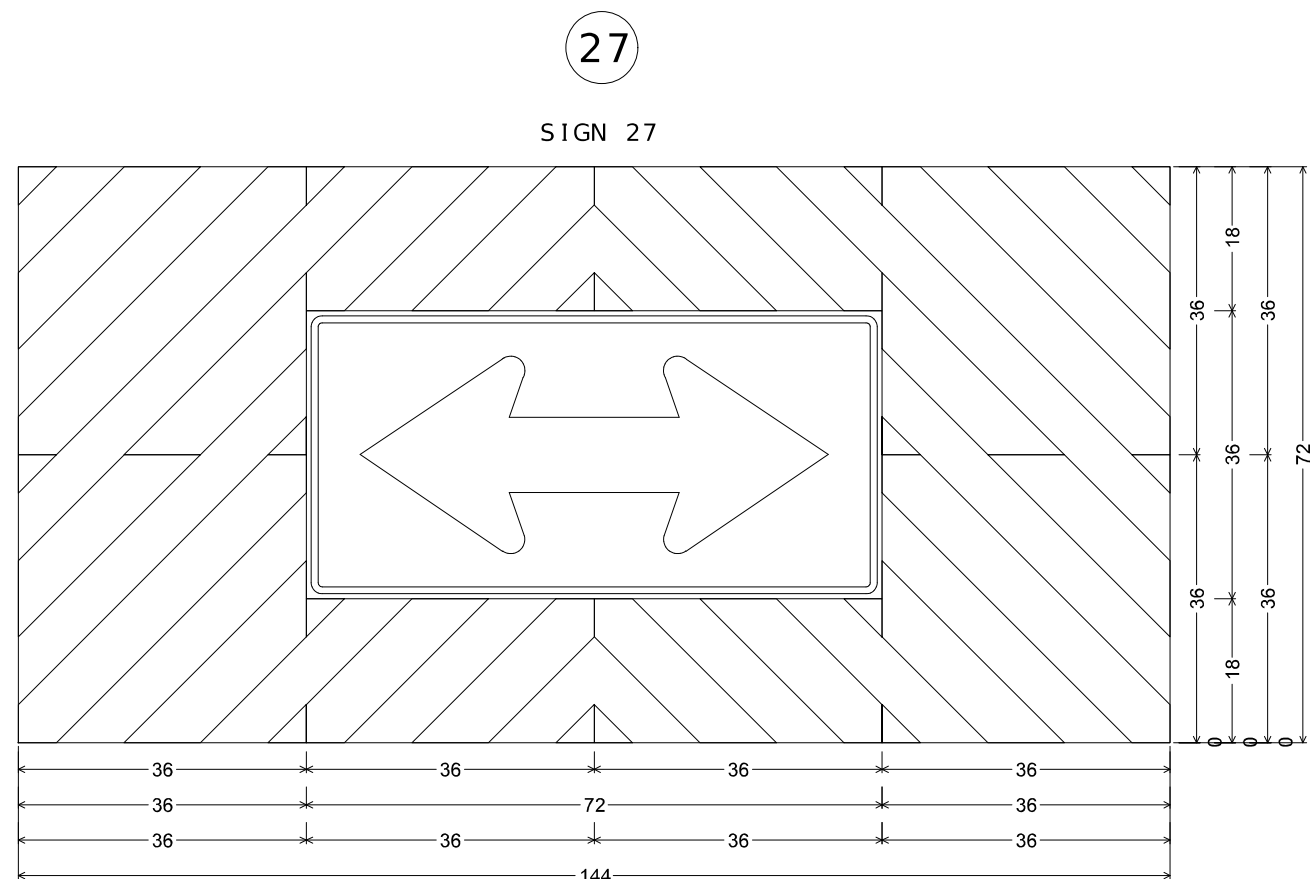
D1-2a ST-STRUCTURAL;
3,000" Radius, 1,000" Border, White on, Green;
Standard Arrow Custom 9,000" X 6,000" 180"; "Midway", E Mod; "16", E Mod; "Boonville", E Mod;
"2", E Mod; Standard Arrow Custom 9,000" X 6,000" 0";
Table of letter and object lefts

←	M	I	w	a	y	l	6	
6.000	21.000	28.875	31.875	37.500	44.625	50.125	69.875	73.250
B	o	o	n	v	l	l	e	2
6.000	12.375	17.625	23.500	29.000	35.125	38.500	44.875	58.250
								→
								69.000



D1-2a ST-STRUCTURAL;
3,000" Radius, 1,000" Border, White on, Green;
Standard Arrow Custom 7,000" X 6,000" 90'; "Boonville", E Mod; "2", E Mod; "New Franklin", E Mod; "1", E Mod;
Standard Arrow Custom 9,000" X 6,000" 0';
Table of letter and object lefts

⬆	B	o	o	n	v	l	l	l	e	2		
6,000	17,000	23,500	28,750	34,500	40,000	46,125	49,625	53,000	56,000	85,250		
N	e	l	F	r	a	k	k	l	l	l	l	↗
6,000	12,875	18,000	29,875	35,875	39,625	45,750	51,875	57,500	61,000	64,375	74,250	81,000



GB-4 ST-STRUCTURAL;
No border, Red on, White;
6 3/4" Red Stripes at 45 Degrees, 5 15/16" White Stripes; W1-7 Black on Yellow Type IX or XI Sheeting;
Table of letter and object lefts

			
0.000	36.000	72.000	108.000
			
0.000	36.000	108.000	
			
36.000	72.000		

[illegible]

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

STRUCTURAL STEEL POST AND FOOTING DATA TABLE															
POST DES. NO.		NOM. SIZE		POST		FOOTING									
				WEIGHT		STUB LENGTH	DIA.	LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE	
				LBS/FT	LBS/IN			DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17		
2	W6	11.5-0"	1.15-0"	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54		
3	W8	18.0	1.50	4'-0"	28"	4'-0"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78		
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45		
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52		
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65		

SIGNING SHEET
QUANTITY SHEET
4 OF 5

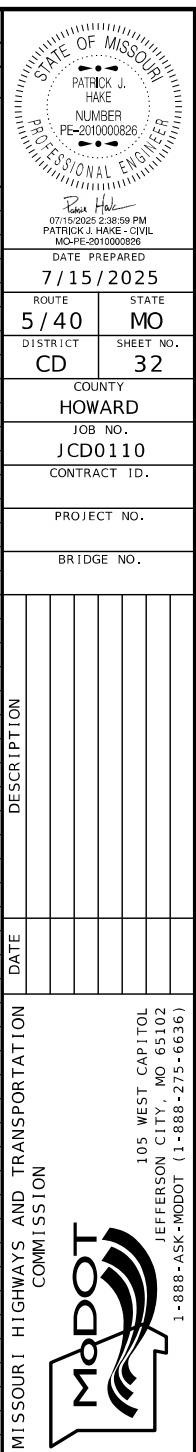
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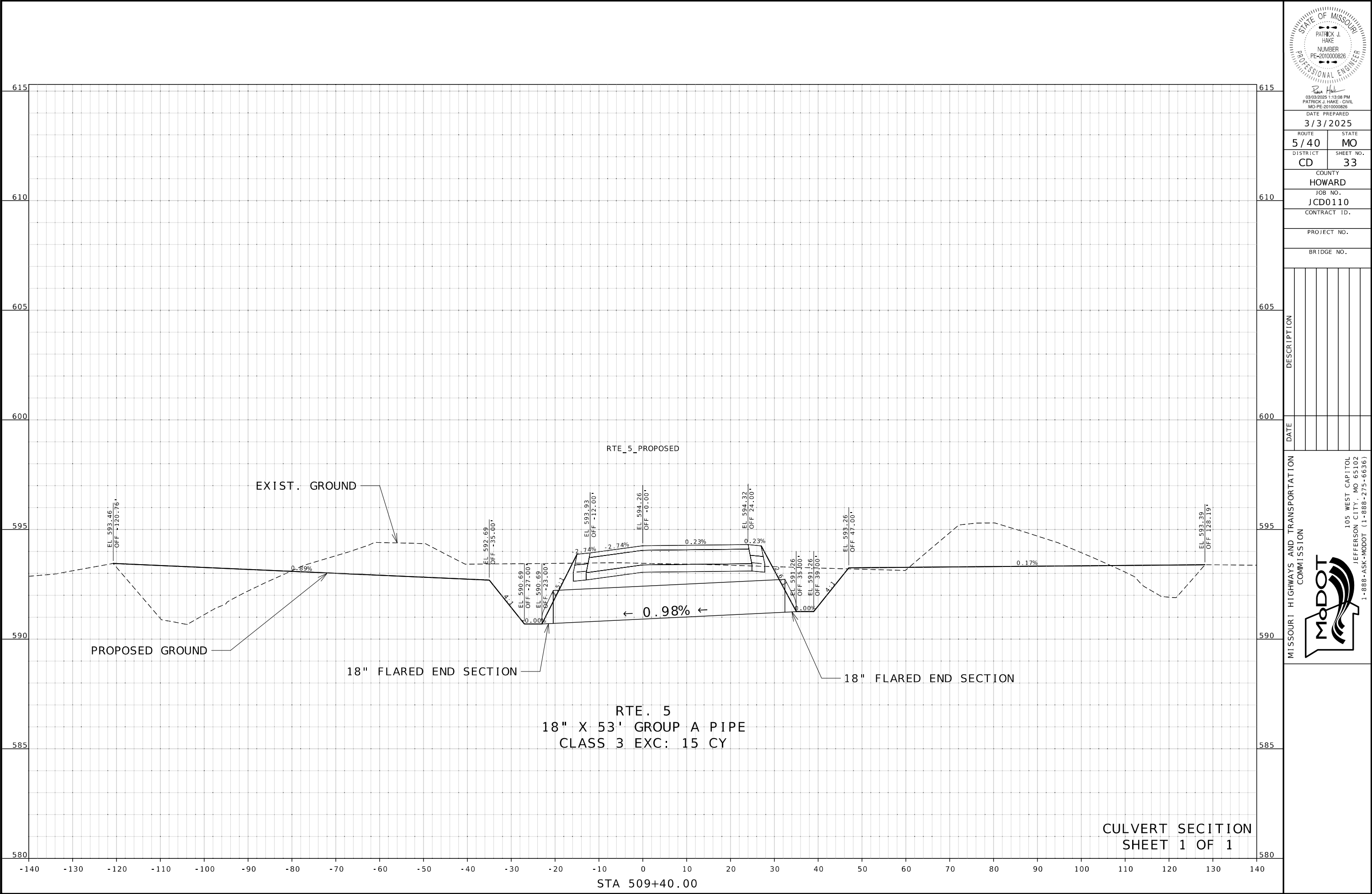
SIGN SUMMARY							
STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET			
				FLAT SHEET SH	FLAT SHEET FLUORESCENT SHF*	STRUCTURAL ST	STRUCTURAL FLUORESCENT STF*
				ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.
				9035004A	9035069A	9035011A	9035071A
R1-2		2	60x60	50.00			
R5-1		2	30x30	12.50			
R1-1		1	36x36	9.00			
GB-4		1	144x72			72.00	
W1-2L		1	36x36		9.00		
W13-1P		1	24x24		4.00		
DEST (2)		1	84x24			14.00	
DEST (16)		1	96x24			16.00	
M1-5		1	24x24	4.00			
M1-4		1	24x24	4.00			
M6-1		1	21x15	2.19			
M6-3		1	21x15	2.19			
			TOTALS	84	13	102	

*ORANGE, YELLOW AND YELLOW-GREEN

SIGNING SHEET
QUANTITY SHEET
5 OF 5

D-30





DATE PREPARED
3/3/2025

ROUTE 5/40 STATE MO

DISTRICT CD SHEET NO. 33

COUNTY HOWARD

JOB NO. JCD0110

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

DESIGN DESIGNATION
ROUTE 124 W/O ROUTE 63
A.A.D.T. - 2023 = 2781
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

DESIGN DESIGNATION
ROUTE 124 E/O ROUTE 63
A.A.D.T. - 2023 = 1638
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

DESIGN DESIGNATION
ROUTE BB
A.A.D.T. - 2023 = 831
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

DESIGN DESIGNATION
ROUTE CC
A.A.D.T. - 2023 = 645
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

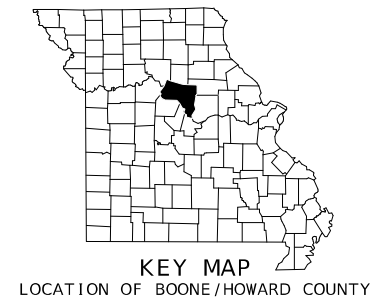
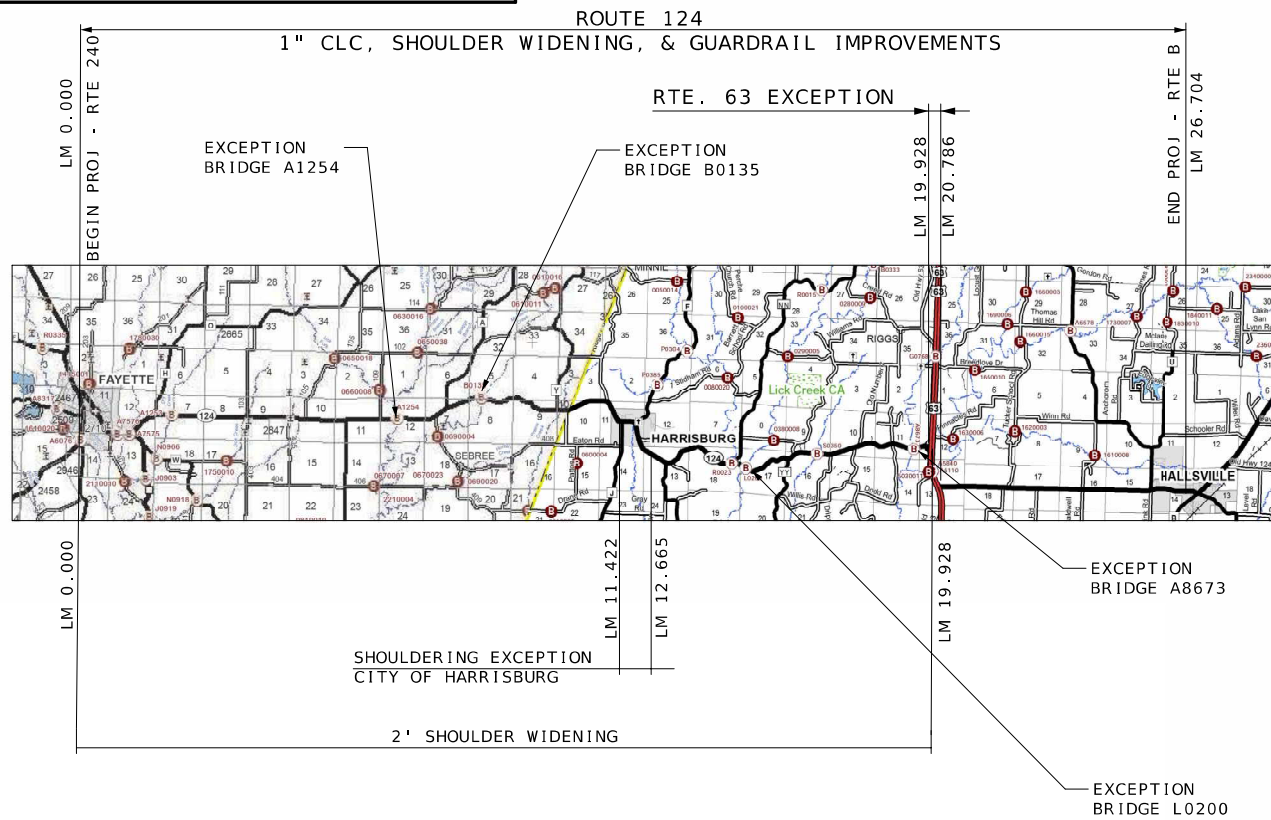
NO NEW R/W REQUIRED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

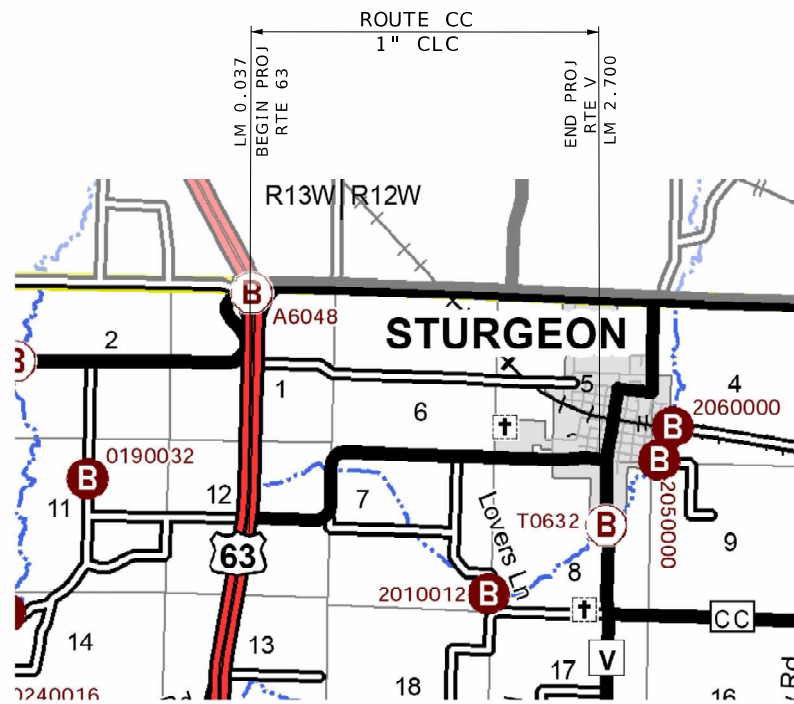
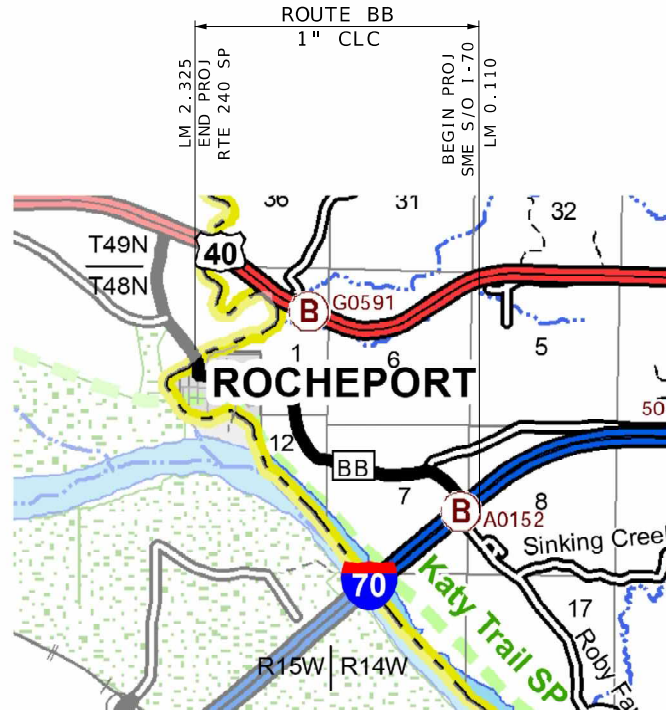
PLANS FOR PROPOSED

STATE HIGHWAY

BOONE /HOWARD COUNTY



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



INDEX OF SHEETS	
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (4 SHEETS)	2
QUANTITIES (QU) (7 SHEETS)	3
SPECIAL SHEET (SS)	4-10
TRAFFIC CONTROL SHEETS (TC)	11-17
EROSION CONTROL SHEETS (EC)	18-19
CULVERT CROSS SECTION SHEETS (CS)	20-24

LENGTH OF PROJECT ROUTE 124	
BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 26.704
APPARENT LENGTH	26.704 MILES
EQUATIONS AND EXCEPTIONS:	
BRIDGE A1254	LOG MILE 6.146 TO LOG MILE 6.183 LENGTH 195.4 FEET
BRIDGE B0135	LOG MILE 8.175 TO LOG MILE 8.202 LENGTH 142.6 FEET
BRIDGE L0200	LOG MILE 15.418 TO LOG MILE 15.46 LENGTH 221.8 FEET
BRIDGE A8673	LOG MILE 19.46 TO LOG MILE 19.487 LENGTH 142.6 FEET
RTE 63	LOG MILE 19.928 TO LOG MILE 20.786 LENGTH 4,530.2 FEET

LENGTH OF PROJECT ROUTE BB	
BEGINNING OF PROJECT	LOG MILE 0.110
END OF PROJECT	LOG MILE 2.325
APPARENT LENGTH	2.215 MILES
EQUATIONS AND EXCEPTIONS:	
NONE	

LENGTH OF PROJECT ROUTE CC	
BEGINNING OF PROJECT	LOG MILE 0.037
END OF PROJECT	LOG MILE 2.700
APPARENT LENGTH	2.663 MILES
EQUATIONS AND EXCEPTIONS:	
NONE	
TOTAL CORRECTIONS	5,232.6 FEET
NET LENGTH OF PROJECT	161,520.36 FEET
STATE LENGTH	30.591 MILES

STATE OF MISSOURI
PATRICK J. HAKE
NUMBER
PE-2010000826
PROFESSIONAL ENGINEER

08/12/2025 12:23:48 PM
PATRICK J. HAKE - CIVIL
MO-PE-2010000826

DATE PREPARED
8/12/2025

ROUTE
124/BB/CC

DISTRICT
CD

COUNTY
BOONE/HOWARD

JOB NO.
JCD0195

CONTRACT ID.

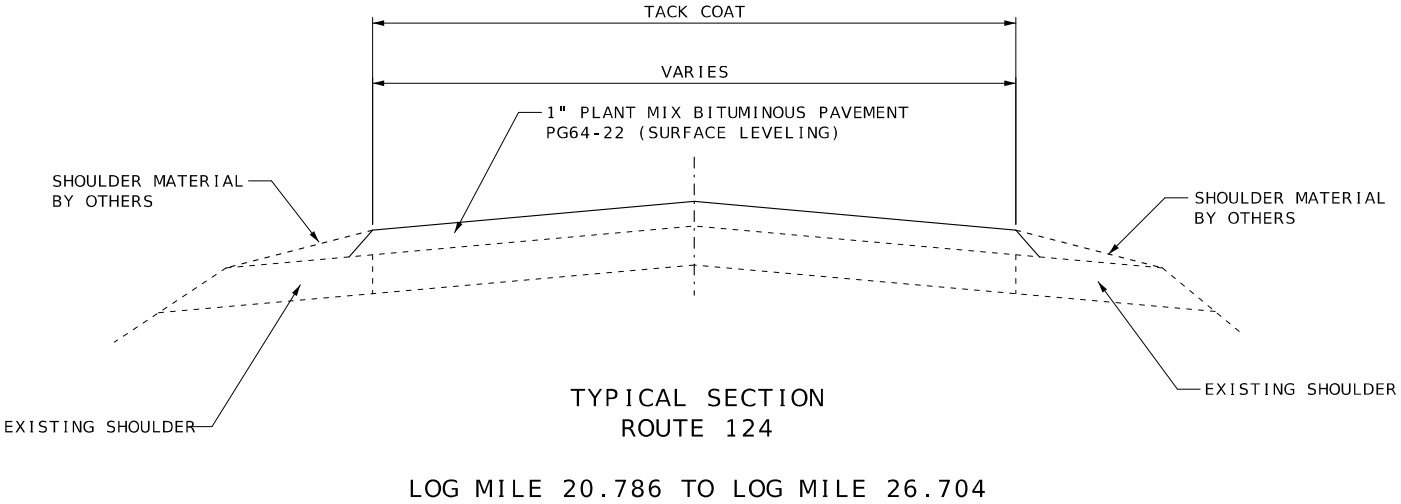
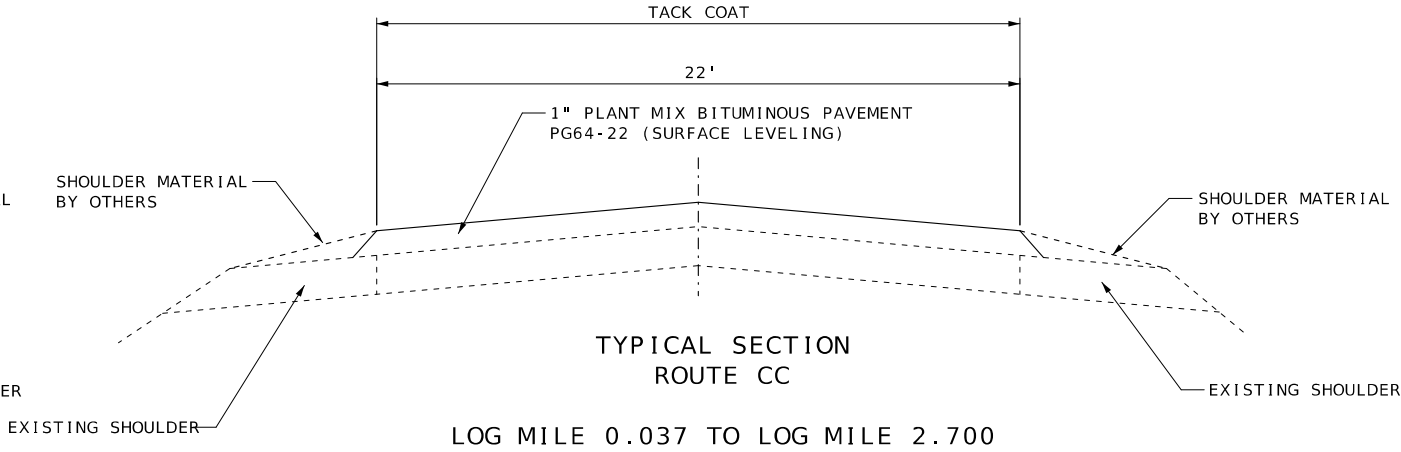
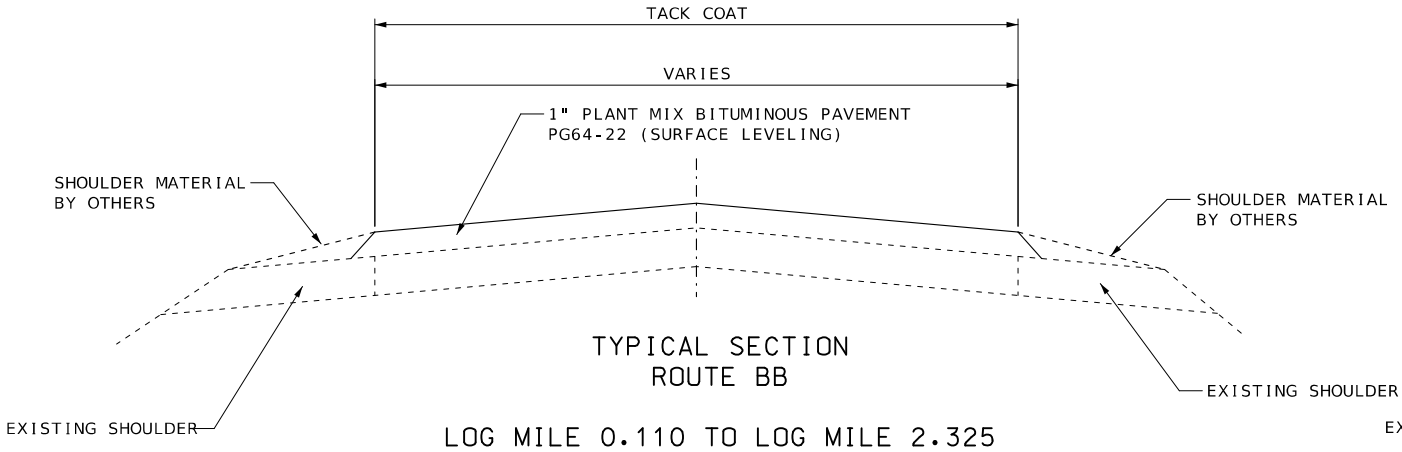
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BRIDGE NO.

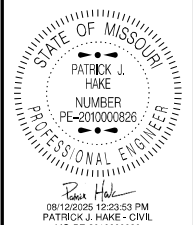
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/YD ³
TACK COAT-EXISTING ASPHALT SURFACES	.08 GAL/YD ²
TACK COAT-COLDMILLED SURFACES	.10 GAL/YD ²



NOTE:
SURFACE PLACEMENT SHALL BE ONE PASS PER LANE
NO S.E. CORRECTION.



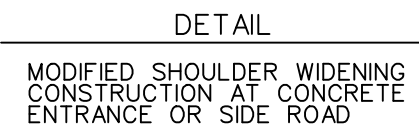
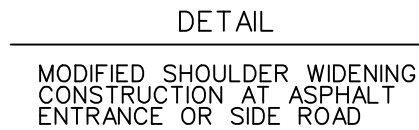
DATE PREPARED 8/12/2025	
ROUTE VAR	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY BOONE/HOWARD	
JOB NO. JCD0195	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

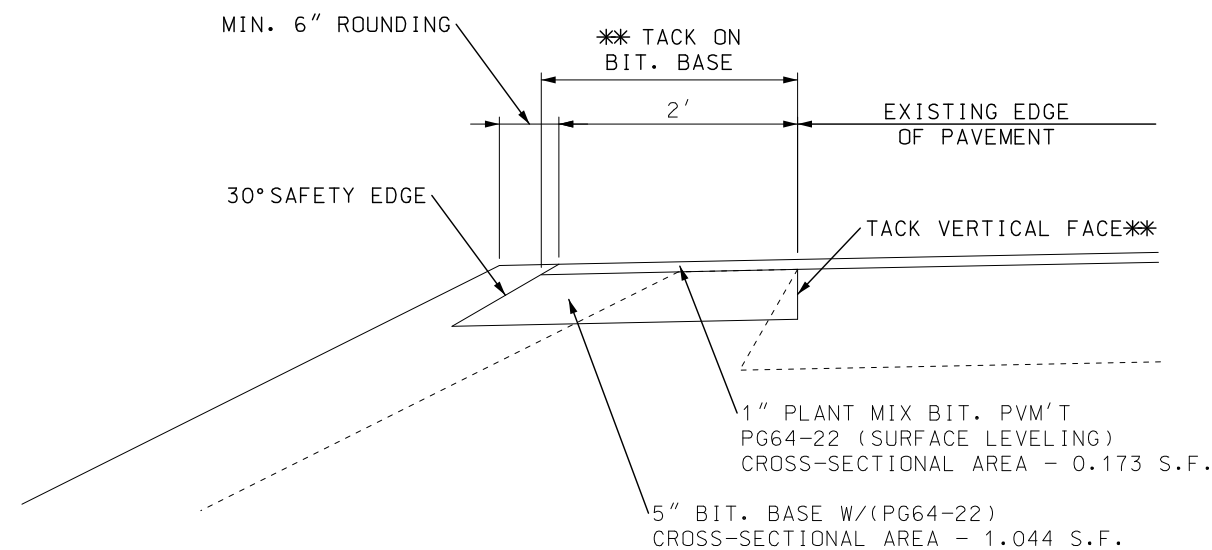
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

- 1) DO NOT PLACE SHOULDER WIDENING WHERE ASPHALT OR CONCRETE SHOULDER ALREADY EXISTS.
- 2) SHOULDER WIDENING IS 2' OUTSIDE OF EXISTING PAVEMENT (EOP). ADDITIONAL WIDTH MAY BE NECESSARY TO MAINTAIN 10'-6" LANE WIDTH BETWEEN RUMBLE STRIPS
- 3) NO DIRECT PAY FOR PAVEMENT EDGE TREATMENT OR CLEARING AND GRUBBING.
- 4) SURFACE PLACEMENT SHALL BE ONE PASS PER LANE. NO SUPERELEVATION CORRECTION.
- 5) 5" BITUMINOUS BASE WIDENING SHALL CONSIST OF A BITUMINOUS MIX.
- 6) ESTIMATE FACTORS:
BITUMINOUS PAVEMENT MIXTURE
(SURFACE LEVELING) = 1.987 TONS/C.Y.
BITUMINOUS BASE WIDENING = 1.980 TONS/C.Y.
TACK = 0.08 GAL/S.Y.
TACK = 0.10 GAL/S.Y. FOR MILLED SURFACE



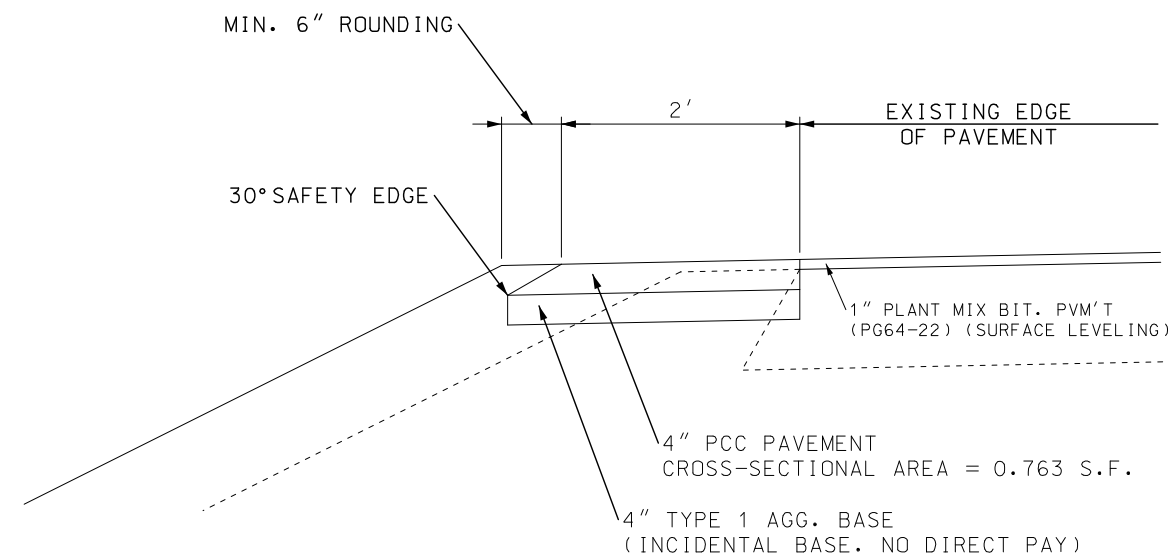
TYPICAL SECTION SHEET
SHEET 2 OF 4

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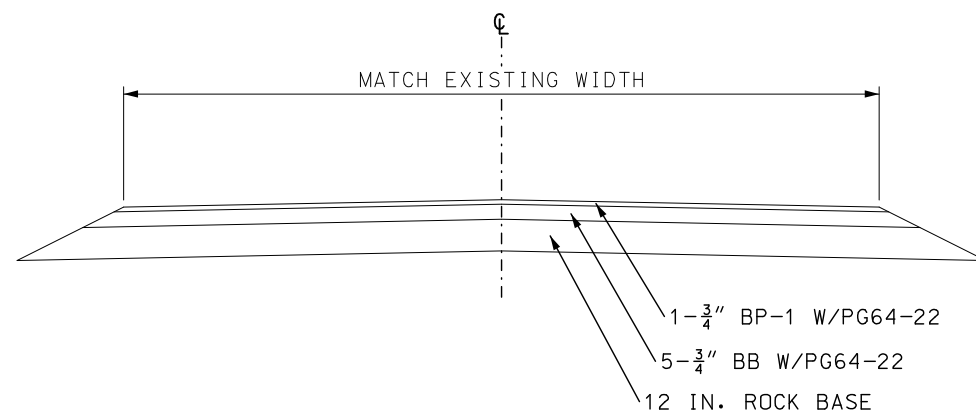


** - TACK VERTICAL FACE AND BETWEEN LIFTS - INCIDENTAL. NO DIRECT PAY

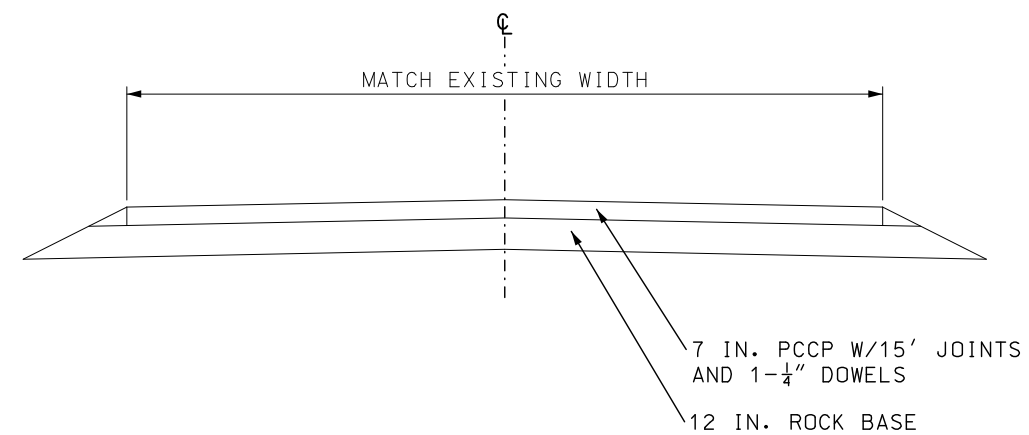
OPTIONAL SHOULDER PAVEMENT
HOT MIX ASPHALT (HMA)



OPTIONAL SHOULDER PAVEMENT - WITH AGG. BASE
PORTLAND CEMENT CONCRETE (PCC)
WITH 7.5" JOINT SPACING



HMA OPTION

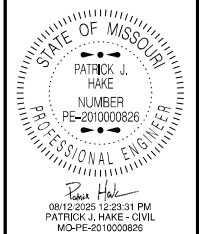


PCCP OPTION

OPTIONAL PAVEMENT
(PIPE REPLACEMENT LOCATION)

NOT TO SCALE

OPTIONAL SHOULDER AND FULL
DEPTH PAVEMENT DETAILS
TYPICAL SECTION SHEET
SHEET 3 OF 4



DATE PREPARED
8/12/2025
ROUTE 124 STATE MO
DISTRICT CD SHEET NO. 2
COUNTY BOONE/HOWARD
JOB NO. JCD0195
CONTRACT ID.

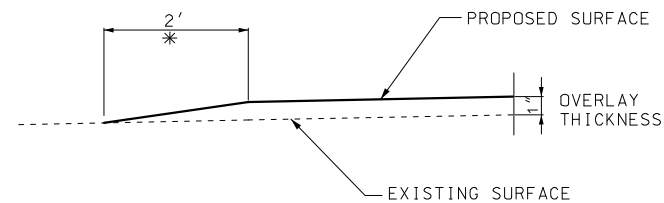
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

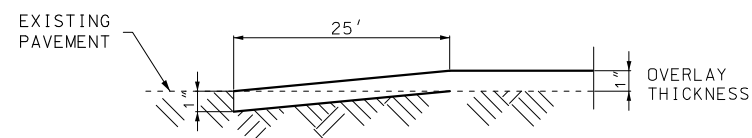
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



Diagram illustrating the cross-section of a concrete curb and gutter. The curb is 25' wide. The gutter is 2' deep and 2' wide. The width of the curb varies. The edge of the 1" surface leveling is indicated.



* TAPER AT 1:1 FOR FIELD ENTRANCE



VARIES

EDGE OF 1" SURFACE LEVELING

1" OVERLAY AREA

10'

A

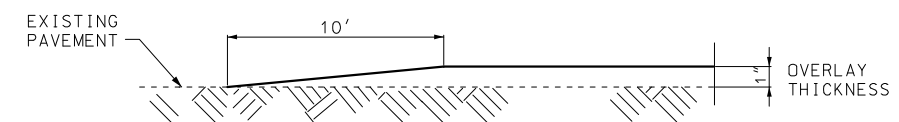
MODIFIED COLDMILLING (DEPTH TRANSITION)

A

VARIES

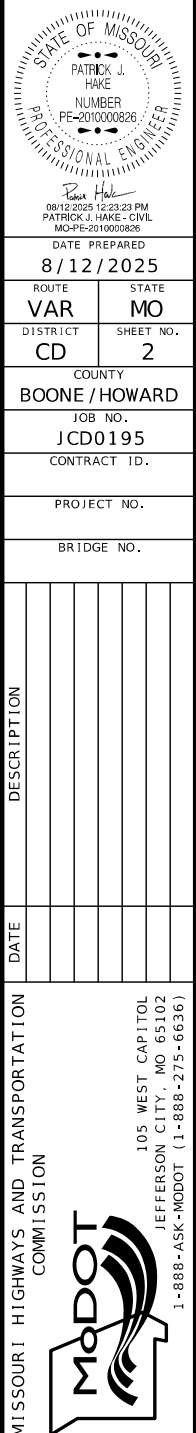
Diagram illustrating a tapered overlay cross-section. The overlay thickness is 1" and the tapered section length is 10'.

SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(MODIFIED COLDMILLING TRANSITION)



ALTERNATE SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(TAPERED TRANSITION)

COLDMILLING AND
RUMBLESTRIP DETAILS
TYPICAL SECTION SHEET
SHEET 4 OF 4



MGS GUARDRAIL						
APPROX. LOG MILE	LOCATION	MGS GUARDRAIL LF	MGS BRIDGE APPROACH TRANS. SECT. (REG. / NO CURB) EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CL 3 STA	REMARKS
6.124	RTE 124 - LT	50.0	1.00	1.00	1.8	A1254 OVER HUNGRY MOTHER CR
6.124	RTE 124 - RT	112.5	1.00	1.00	2.4	A1254 OVER HUNGRY MOTHER CR
6.184	RTE 124 - LT	37.5	1.00	1.00	1.6	A1254 OVER HUNGRY MOTHER CR
6.184	RTE 124 - RT	25.0	1.00	1.00	1.5	A1254 OVER HUNGRY MOTHER CR
8.163	RTE 124 - LT	50.0	1.00	1.00	1.8	B0135 OVER MONITEAU CR
8.163	RTE 124 - RT	112.5	1.00	1.00	2.4	B0135 OVER MONITEAU CR
8.203	RTE 124 - LT	112.5	1.00	1.00	2.4	B0135 OVER MONITEAU CR
8.203	RTE 124 - RT	50.0	1.00	1.00	1.8	B0135 OVER MONITEAU CR
15.421	RTE 124 - LT	50.0	1.00	1.00	1.8	L0200 OVER PERCHE CR
15.421	RTE 124 - RT	112.5	1.00	1.00	2.4	L0200 OVER PERCHE CR
	TOTAL	712.50	10.00	10.00	19.90	
	USE	713	10.0	10.0	20	

GRAVEL ENTRANCES				
LOG MILE	LOG MILE	LOCATION	GRAVEL (A) CRUSHED STONE (B) CHAT (C) TONS	REMARKS
0.000	10.339	ROUTE 124	385.0	HOWARD COUNTY ENTRANCES
10.339	26.704	ROUTE 124	1135.0	BOONE COUNTY ENTRANCES
0.000	2.314	ROUTE BB	92.600	
0.037	2.700	ROUTE CC	130.000	
		TOTAL	1742.60	
		USE	1743	

MOBILIZATION
1 LUMP SUM

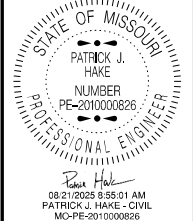
ADDITIONAL MOBILIZATION FOR SEEDING
TOTAL = 8 EA

SEEDING AND MULCHING - ROUTE 124						
LOG MILE	LOG MILE	LENGTH MI	SEEDING COOL SEASON MIX ACRE	TEMP. SEEDING ACRE	MULCHING ACRE	
0.000	10.339	10.339	24.81	12.41	37.22	HOWARD COUNTY
10.339	11.422	1.083	2.60	1.30	3.90	BOONE/HOWARD CO LINE TO HARRISBURG CITY LIMITS WEST
12.665	19.928	7.263	17.43	8.72	26.15	EAST HARRISBURG CITY LIMITS TO SB 63
		TOTAL	44.84	22.43	67.27	
		USE	44.8	22.4	67.3	
COOL SEASON MIX ESTIMATED AT 2.4 AC/MILE - TEMP SEEDING AND MULCHING ESTIMATED AT 50% OF COOL SEASON						

TEMPORARY EROSION CONTROL								
LOG MILE	LOG MILE	LOCATION	SILT FENCE LF	ROCK DITCH CHECK LF	ALTERNATE DITCH CHECK LF	SEDIMENT TRAP CY	SEDIMENT REMOVAL CY	REMARKS
0.000	10.339	ROUTE 124	5169.5	3101.7	827.12	103.39	351.53	HOWARD COUNTY
10.339	11.422	ROUTE 124	541.5	324.9	86.64	10.83	36.82	BOONE COUNTY LINE TO HARRISBURG CITY LIMITS
12.665	19.928	ROUTE 124	3631.5	2178.9	581.04	72.63	246.94	HARRISBURG CITY LIMITS TO SB 63
		TOTAL	9342.5	5605.5	1494.8	186.85	635.29	
		USE	9343	5606	1495	187	635	
ESTIMATED AT 500 LF OF SILT FENCE/MILE - 300 LF OF ROCK DITCH CHECK/MILE - 80 LF OF ALTERNATE DITCH CHECK/MILE - 10 CY OF SEDIMENT TRAP/MILE								

REMOVAL OF IMPROVEMENTS				
APPROXIMATE LOG MILE	LOCATION	ITEM	QTY	REMARKS
6.124	RTE 124 LT/RT	GUARDRAIL	144 LF	INCLUDES C.E.T AND BRIDGE TRANSITION
6.184	RTE 124 LT/RT	GUARDRAIL	137 LF	INCLUDES C.E.T AND BRIDGE TRANSITION
8.163	RTE 124 LT/RT	GUARDRAIL	130 LF	INCLUDES C.E.T AND BRIDGE TRANSITION
8.203	RTE 124 LT/RT	GUARDRAIL	116 LF	INCLUDES C.E.T AND BRIDGE TRANSITION
15.421	RTE 124 LT/RT	GUARDRAIL	148 LF	INCLUDES C.E.T AND BRIDGE TRANSITION
4.061	RTE 124	24" CMP	79 LF	SEE CULVERT SECTION SHEET 1
4.061	RTE 124	FULL DEPTH PAVEMENT	33.3 SY	
4.061	RTE 124	FULL DEPTH SAW CUT	40.0 LF	
15.538	RTE 124	48" CMP	61 LF	SEE CULVERT SECTION SHEET 2
15.538	RTE 124	FULL DEPTH PAVEMENT	34.0 SY	
15.538	RTE 124	FULL DEPTH SAW CUT	43.0 LF	
16.793	RTE 124	24" CMP	41 LF	SEE CULVERT SECTION SHEET 3
16.793	RTE 124	FULL DEPTH PAVEMENT	24.4 SY	
16.793	RTE 124	FULL DEPTH SAW CUT	44 LF	
17.396	RTE 124	60" CMP	65 LF	SEE CULVERT SECTION SHEET 4
17.396	RTE 124	FULL DEPTH PAVEMENT	54.4 SY	
17.396	RTE 124	FULL DEPTH SAW CUT	46.6 LF	
17.615	RTE 124	18" CMP	41 LF	SEE CULVERT SECTION SHEET 5
17.615	RTE 124	FULL DEPTH PAVEMENT	47.8 SY	
17.615	RTE 124	FULL DEPTH SAW CUT	43 LF	
		TOTAL	1	LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 7



DATE PREPARED 8/19/2025	
ROUTE VAR	STATE MO
DISTRICT CD	SHEET NO. 3
COUNTY BOONE /HOWARD	
JOB NO. JCD0195	
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)

OPTIONAL SHOULDER									
LOG MILE	LOG MILE	LENGTH MILE	5" BIT. PAVEMENT MIX PG64-22 (BASE WIDENING)			1" BIT. PAVEMENT SURFACE LEVELING PG64-22			REMARKS
			CROSS SECTIONAL * AREA SF	VOLUME CY	QUANTITY** TON	CROSS SECTIONAL * AREA SF	VOLUME CY	QUANTITY** TON	
HOWARD COUNTY									
0.000	10.339	10.339	1.044	2110.81	4179.40	0.173	349.8	695.05	END BOONE CO LINE LT
0.000	10.339	10.339	1.044	2110.81	4179.40	0.173	349.8	695.05	END BOONE CO LINE RT
EXCEPTIONS									
0.000	0.017	0.017	1.044	3.47	6.87	0.173	0.6	1.19	BEGINING AT RTE 240 IN FAYETTE LT
0.000	0.017	0.017	1.044	3.47	6.87	0.173	0.6	1.19	BEGINING AT RTE 240 IN FAYETTE RT
0.692	0.718	0.026	1.044	5.31	10.51	0.173	0.9	1.79	ROUTE HH
4.985	5.021	0.036	1.044	7.35	14.55	0.173	1.2	2.38	ROUTE A SOUTH
6.124	6.184	0.060	1.044	12.25	24.26	0.173	2.0	3.97	A1254 HUNGRY MOTHER CREEK LT
6.124	6.184	0.060	1.044	12.25	24.26	0.173	2.0	3.97	A1254 HUNGRY MOTHER CREEK RT
7.344	7.366	0.022	1.044	4.49	8.89	0.173	0.7	1.39	ROUTE A NORTH
8.163	8.203	0.040	1.044	8.17	16.18	0.173	1.4	2.78	B0135 MONITEAU CREEK LT
8.163	8.203	0.040	1.044	8.17	16.18	0.173	1.4	2.78	B0135 MONITEAU CREEK RT
10.021	10.041	0.020	1.044	4.08	8.08	0.173	0.7	1.39	ROUTE Y
BOONE COUNTY									
10.339	19.928	9.589	1.044	1957.69	3876.23	0.173	324.4	644.58	HOWARD CO LINE TO RTE 63 LT
10.339	19.928	9.589	1.044	1957.69	3876.23	0.173	324.4	644.58	HOWARD CO LINE TO RTE 63 RT
EXCEPTIONS									
11.280	11.299	0.019	1.044	3.88	7.68	0.173	0.6	1.19	RIDGE RD
11.422	12.665	1.243	1.044	253.77	502.46	0.173	42.1	83.65	HARRISBURG CITY LIMITS
13.34	13.365	0.025	1.044	5.10	10.10	0.173	0.8	1.59	ROUTE E
15.071	15.098	0.027	1.044	5.51	10.91	0.173	0.9	1.79	ROUTE NN
15.421	15.460	0.039	1.044	7.96	15.76	0.173	1.3	2.58	L0200 PERCHE CREEK LT
15.421	15.460	0.039	1.044	7.96	15.76	0.173	1.3	2.58	L0200 PERCHE CREEK RT
16.493	16.516	0.023	1.044	4.70	9.31	0.173	0.8	1.59	ROUTE YY
16.654	16.677	0.023	1.044	4.70	9.31	0.173	0.8	1.59	OAK GROVE SCHOOL RD
18.084	18.109	0.025	1.044	5.10	10.10	0.173	0.8	1.59	OLD NO 7 RD SOUTH
18.103	18.151	0.048	1.044	9.80	19.40	0.173	1.6	3.18	OLD NO 7 RD NORTH
18.963	18.976	0.013	1.044	2.65	5.25	0.173	0.4	0.79	HOPPER RD
19.464	19.492	0.028	1.044	5.72	11.33	0.173	0.9	1.79	A8673 GRINDSTONE CREEK LT
19.464	19.492	0.028	1.044	5.72	11.33	0.173	0.9	1.79	A8673 GRINDSTONE CREEK RT
19.741	19.763	0.022	1.044	4.49	8.89	0.173	0.7	1.39	OLD HWY 63
19.875	19.894	0.019	1.044	3.88	7.68	0.173	0.6	1.19	OLD HWY 63/LIPSCOMB DR
19.917	19.928	0.011	1.044	2.25	4.46	0.173	0.4	0.79	RADIUS AT ROUTE 63 SBL LT
19.917	19.928	0.011	1.044	2.25	4.46	0.173	0.4	0.79	RADIUS AT ROUTE 63 SBL RT
				SUBTOTAL	16111.26			2679.26	
				EXCEPTIONS	800.84			132.69	
				TOTAL	15310.42			2546.57	
				USE	15310.4			2546.6	
			* PER SIDE - INCLUDES SAFETY EDGE						
			** 5" BIT. BASE WIDENING - 1.98 TON/CY						
			**1" BIT. SL - 1.987 TON/CY						

BITUMINOUS RUMBLE STRIP - ROUTE 124					
LOG MILE	LOG MILE	LENGTH MILE	CENTERLINE RUMBLE STA	SHOULDER RUMBLE STA	REMARKS
HOWARD COUNTY					
0.000	10.339	10.339	545.90	1091.80	END BOONE CO LINE
BOONE COUNTY					
10.339	19.928	9.589	506.30	1012.60	HOWARD CO LINE TO RTE 63
EXCEPTIONS					
11.422	12.665	1.243	65.63	131.26	HARRISBURG CITY LIMITS
				210.44	ASSUME 10% DEDCUTIONS FOR ENTRANCES
		SUBTOTAL	1052.20	2104.40	
		EXCEPTIONS	65.63	341.70	
		TOTAL	986.57	1762.70	
		USE	986.6	1762.7	

PATCHING FOR SURFACE LEVELING					
LOG MILE	LOG MILE	LOCATION	MISC. REMOVAL OF DAMAGED PAVEMENT SY	MISC. REPLACEMENT OF DAMAGED PAVEMENT TON	REMARKS
0.037	2.700	ROUTE CC	639.120	159.780	
		TOTAL	639.12	159.78	
		USE	639	159.8	

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER
PE-2010000826

PROFESSIONAL ENGINEER

08/21/2025 8:54:48 AM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED
8/19/2025

ROUTE
VAR

DISTRICT
CD

STATE
MO

SHEET NO.
3

COUNTY
BOONE / HOWARD

JOB NO.
JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

SUMMARY OF QUANTITIES
SHEET 4 OF 7

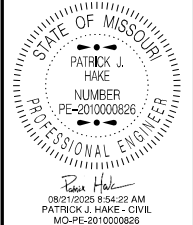
GROUP B CULVERT INSTALLATION - ROUTE 124													
LOG MILE	GROUP B 18" PIPE LF	GROUP B 18" FES EA	GROUP B 24" PIPE LF	GROUP B 24" FES EA	GROUP B 48" PIPE LF	GROUP B 48" FES EA	GROUP B 60" PIPE LF	GROUP B 60" FES EA	CLASS 3 EXCAVATION CY	FURN. ROCK FILL CY	PLACE ROCK FILL CY	ROCK LINING CY	REMARKS
HOWARD COUNTY													
4.061			79.0	2					140.00	310.0	310.0	3.0	P1
BOONE COUNTY													
15.538					50.0	2			101.00	68.0	68.0	18.0	P2
16.793			45.0	2					42.00	49.0	49.0	3.0	P3
17.396							38.0	2	82.50	30.5	30.5	22.0	CLASS 3/ROCK FILL/ROCK LINING SPLIT BETWEEN PIPES P4/P5
17.396							38.0	2	82.50	30.5	30.5	22.0	
17.615	49.0	2							40.00	147.0	147.0	2.0	
TOTAL	49.0	2	124.0	4	50.0	2	76.0	4	488.00	635.0	635.0	70.0	P6
USE	49	2	124	4	50	2	76	4	488	635	635	70	

FULL DEPTH OPTIONAL PAVEMENT REPLACEMENT - ROUTE 124						
LOG MILE	LENGTH FT	WIDTH FT	OPTIONAL PAVEMENT SY	FURNISHING 12" ROCK BASE SY	PLACING 12" ROCK BASE SY	REMARKS
HOWARD COUNTY						
4.061	15.0	20.0	33.3	33.3	33.3	CULVERT P1
BOONE COUNTY						
15.538	14.3	21.5	34.2	34.0	34.0	CULVERT P2
16.793	10.0	22	24.4	24.4	24.4	CULVERT P3
17.396	21.0	23.3	54.4	54.4	54.4	CULVERT P4 AND P5
17.615	20.000	21.500	47.8	47.8	47.8	CULVERT P6
		TOTAL	194.10	193.90	193.90	
		USE	194.1	194.0	194.0	

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

PAVEMENT MARKING								
LOG MILE	LOG MILE	LOCATION	DISTANCE		4" YELLOW CLASS I PVMT MARKING PAINT (18-MIL, TYPE P BEADS)	4" WHITE CLASS I PVMT MARKING PAINT (18-MIL, TYPE P BEADS)	8" WHITE CLASS I PVMT MARKING PAINT (18-MIL, TYPE P BEADS)	REMARKS
			MILES	FEET				
0.000	10.339	ROUTE 124	10.339	54,590	109180	109,180		HOWARD COUNTY
10.339	19.928	ROUTE 124	9.589	50,630	101260	101,260		HOWARD CO LINE TO RTE 63
20.786	26.704	ROUTE 124	5.918	31,247	62494	62,494	282	RTE 63 TO RTE O/124/B
0.060	2.325	ROUTE BB	2.265	11,959	23918	23,918		ROUTE BB
0.117	0.217	ROUTE BB	0.100	528	1056	1,056		ROBY FARM ROAD
0.037	2.700	ROUTE CC	2.663	14,060	28121	28121		ROUTE CC
				TOTAL	326029	326029	282	
				USE	326,029	326,029	282	

PAVEMENT MARKING - INTERSECTIONS - PREFORMED THERMOPLASTIC PAVEMENT MARKING					
LOG MILE	LOCATION	24" WHITE STOP BAR LF	24" WHITE MID-BLOCK LF	6" WHITE CROSSWALK LF	REMARKS
0.007	ROUTE 124	12			BEGIN PROJECT NEAR FAYETTE
26.698	ROUTE 124	22		120	HALLSVILLE
26.529	ROUTE 124		30		HALLSVILLE POST OFFICE
	TOTAL	34	30	120	
	USE	64		120	



DATE PREPARED
8/19/2025

ROUTE VAR	STATE MO
DISTRICT CD	SHEET NO. 3

COUNTY
BOONE / HOWARD

JOB NO.
JCD0195

CONTRACT ID.

PROJECT NO.

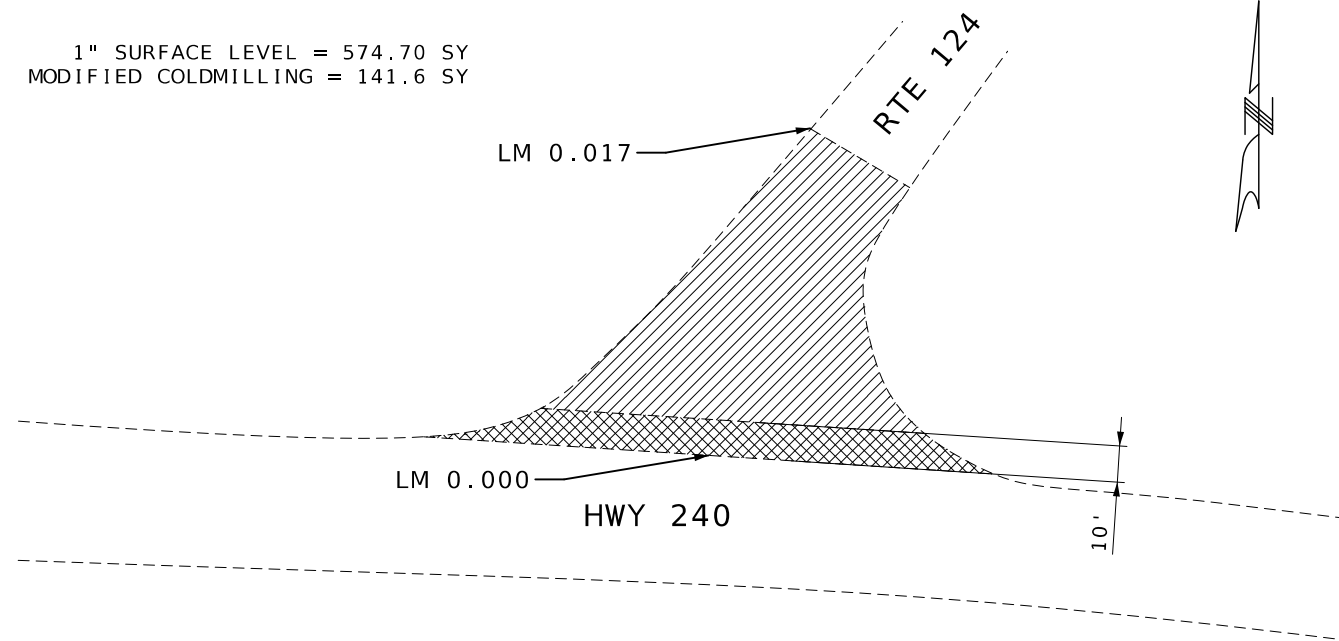
BRIDGE NO.

DATE	DESCRIPTION					

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

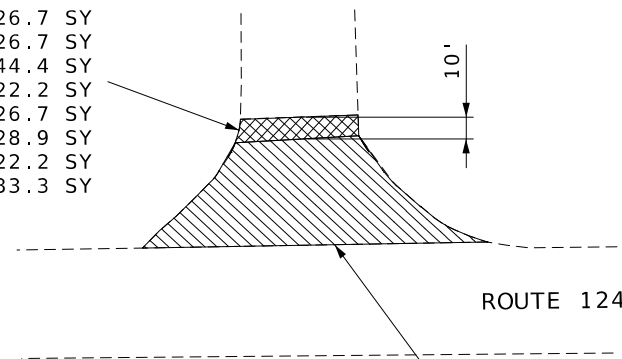
1" SURFACE LEVEL = 574.70 SY
MODIFIED COLDMILLING = 141.6 SY



BEGINNING ROUTE 124 AT HWY 240
EB L.M. 0.000

MOD. COLDMILLING - APPROX. AREA

- ROUTE F - 26.7 SY
- ROUTE NN - 26.7 SY
- OAK GROVE SCHOOL RD - 44.4 SY
- HOPPER RD - 22.2 SY
- TUCKER SCHOOL RD - 26.7 SY
- BARNES SCHOOL RD - 28.9 SY
- ROUTE U - 22.2 SY
- CONCERT AVE - 33.3 SY



APPROX. INTERSECTION AREA
1" SURFACE LEVELING

- ROUTE F - 466.78 SY
- ROUTE NN - 272.14 SY
- OAK GROVE SCHOOL RD - 163.61 SY
- HOPPER RD - 109.83 SY
- TUCKER SCHOOL RD - 197.96 SY
- BARNES SCHOOL RD - 60.07 SY
- ROUTE U - 361.46 SY
- CONCERT AVE - 123.57 SY



1" SURFACE LEVELING

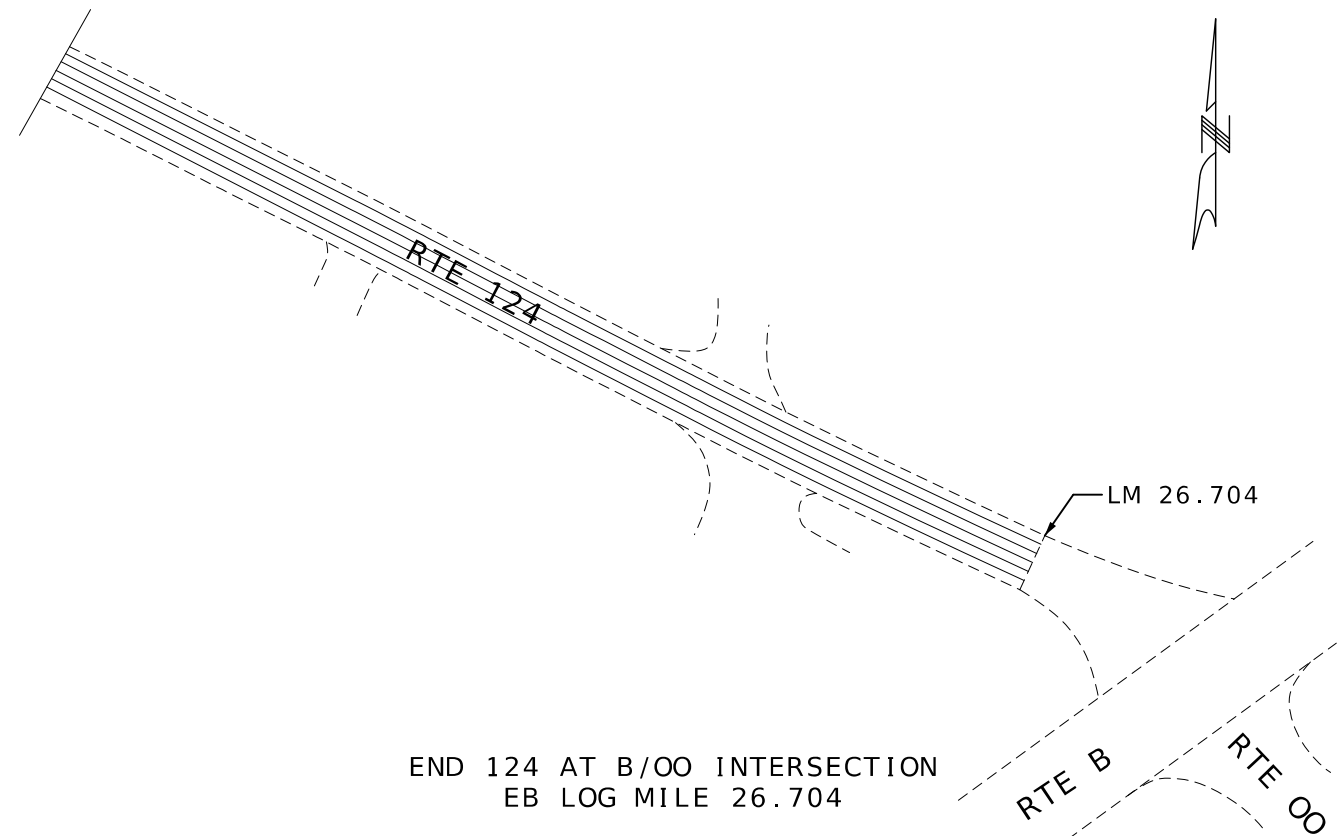


MODIFIED COLDMILLING & 1" SURFACE LEVELING



COLMILL 1" & 1" SURFACE LEVELING

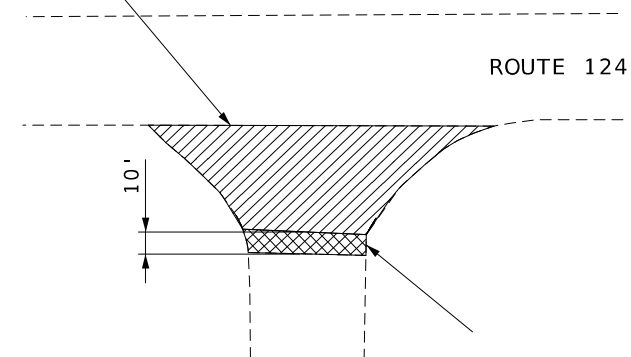
NOT TO SCALE



END 124 AT B/OO INTERSECTION
EB LOG MILE 26.704

APPROX. INTERSECTION AREA
1" SURFACE LEVELING

- STERLING BROCK RD - 67.92 SY
- ROUTE E - 305.64 SY
- ROUTE YY - 350.06 SY
- OLD HWY 63/LIPSCOMB - 181.09 SY
- FRINK RD - 81.44 SY



MOD. COLDMILLING
APPROX. AREA

- STERLING BROCK RD - 24.4 SY
- ROUTE E - 24.4 SY
- ROUTE YY - 26.7 SY
- OLD HWY 63/LIPSCOMB - 24.4 SY
- FRINK RD - 33.3 SY



DATE PREPARED
8/12/2025

ROUTE
VAR

STATE
MO

DISTRICT
CD

SHEET NO.
4

COUNTY
BOONE / HOWARD

JOB NO.
JCD0195

CONTRACT ID.

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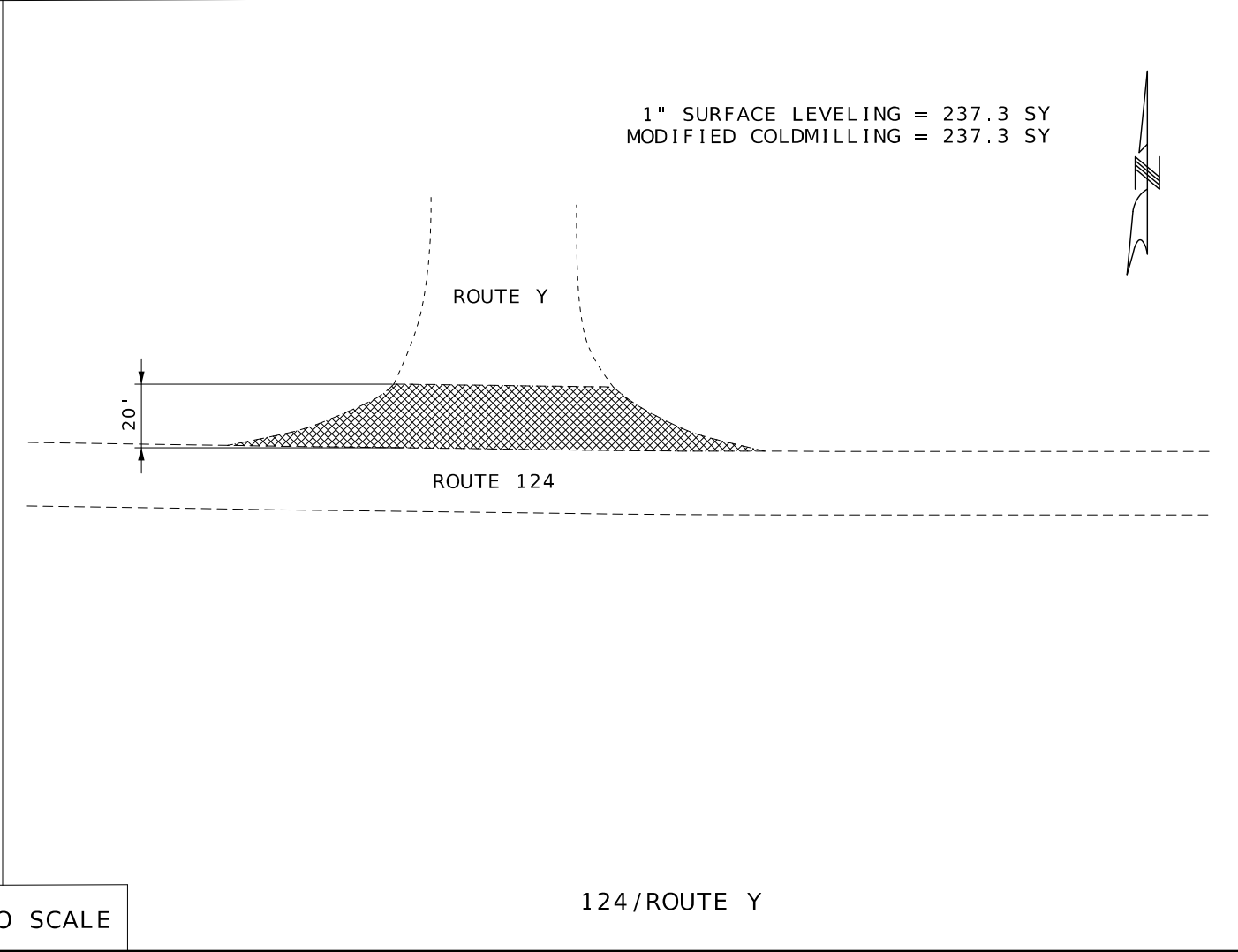
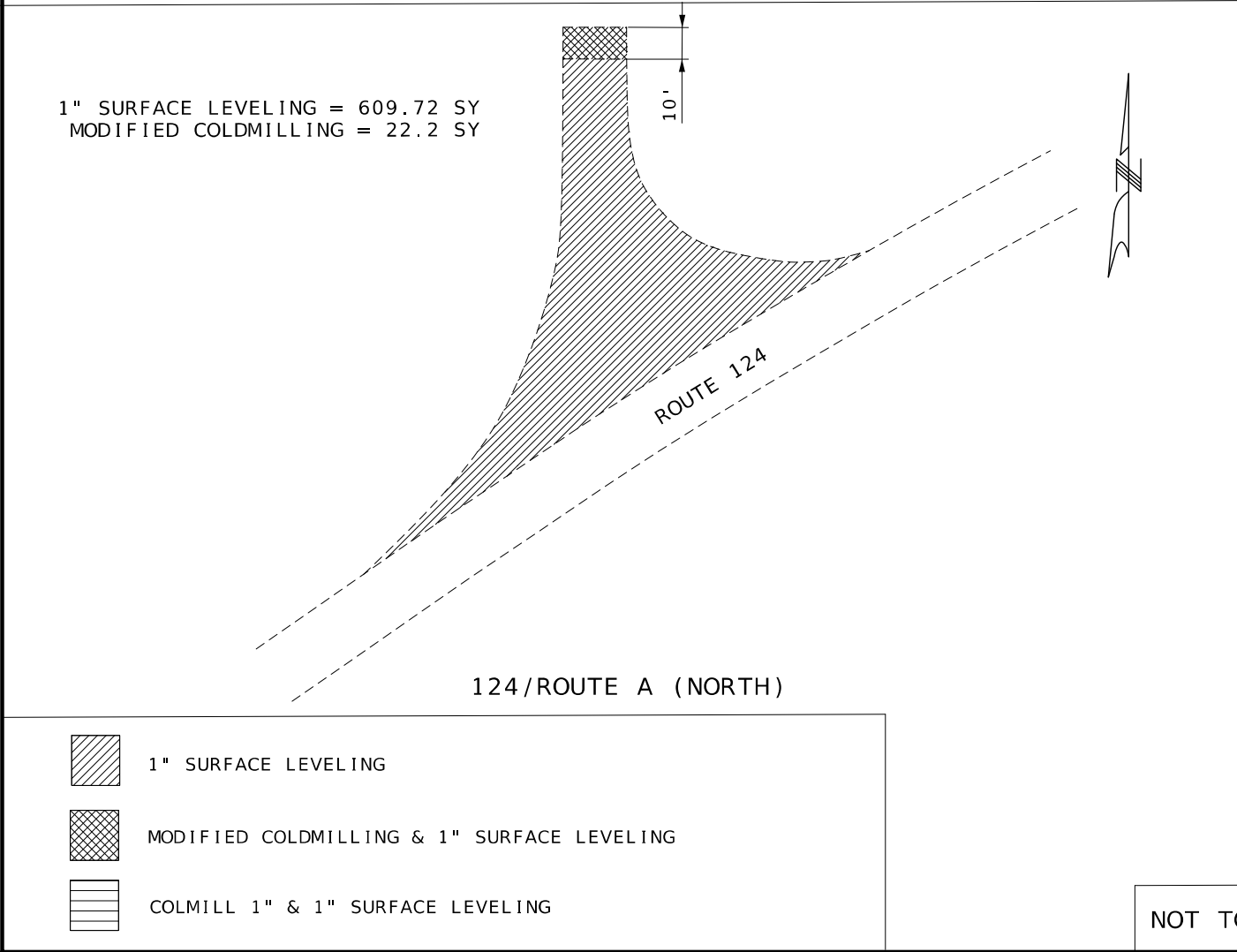
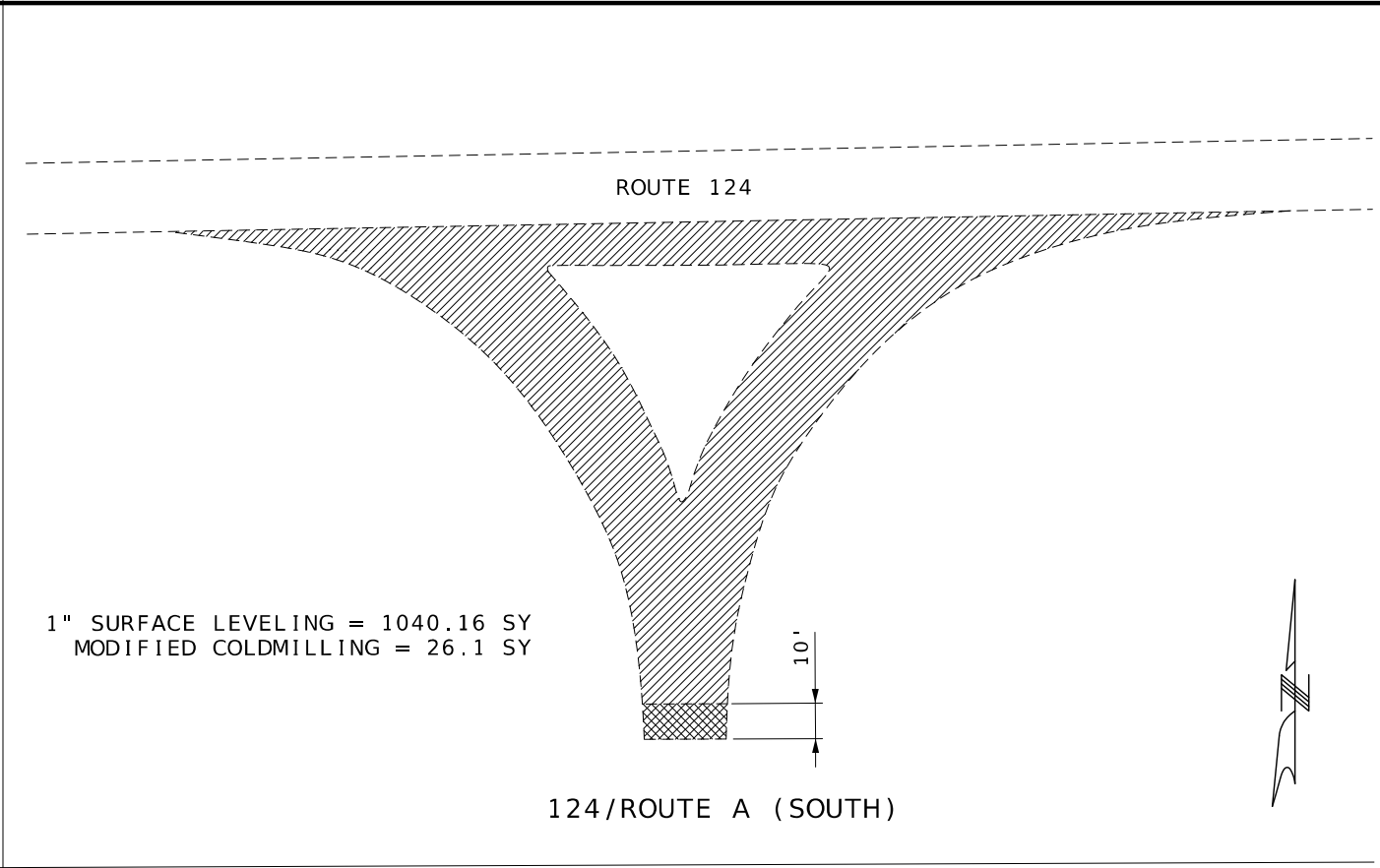
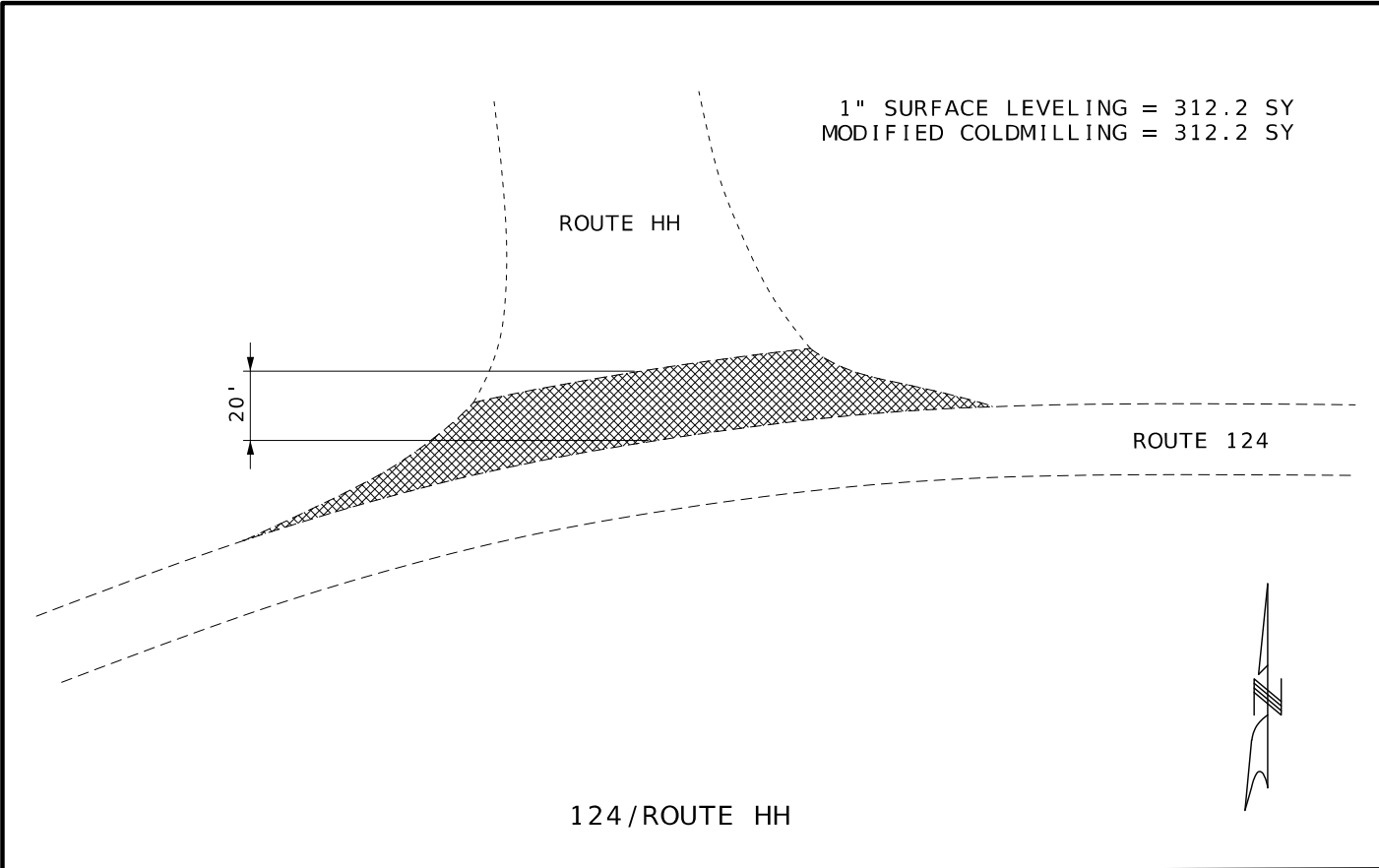
DATE

DATE

DATE

DATE

DATE



- 1" SURFACE LEVELING
- MODIFIED COLDMILLING & 1" SURFACE LEVELING
- COLMILL 1" & 1" SURFACE LEVELING

NOT TO SCALE

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

08/12/2025 12:22:15 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

8/12/2025

ROUTE

VAR

DISTRICT

CD

STATE

MO

SHEET NO.

5

COUNTY

BOONE/HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

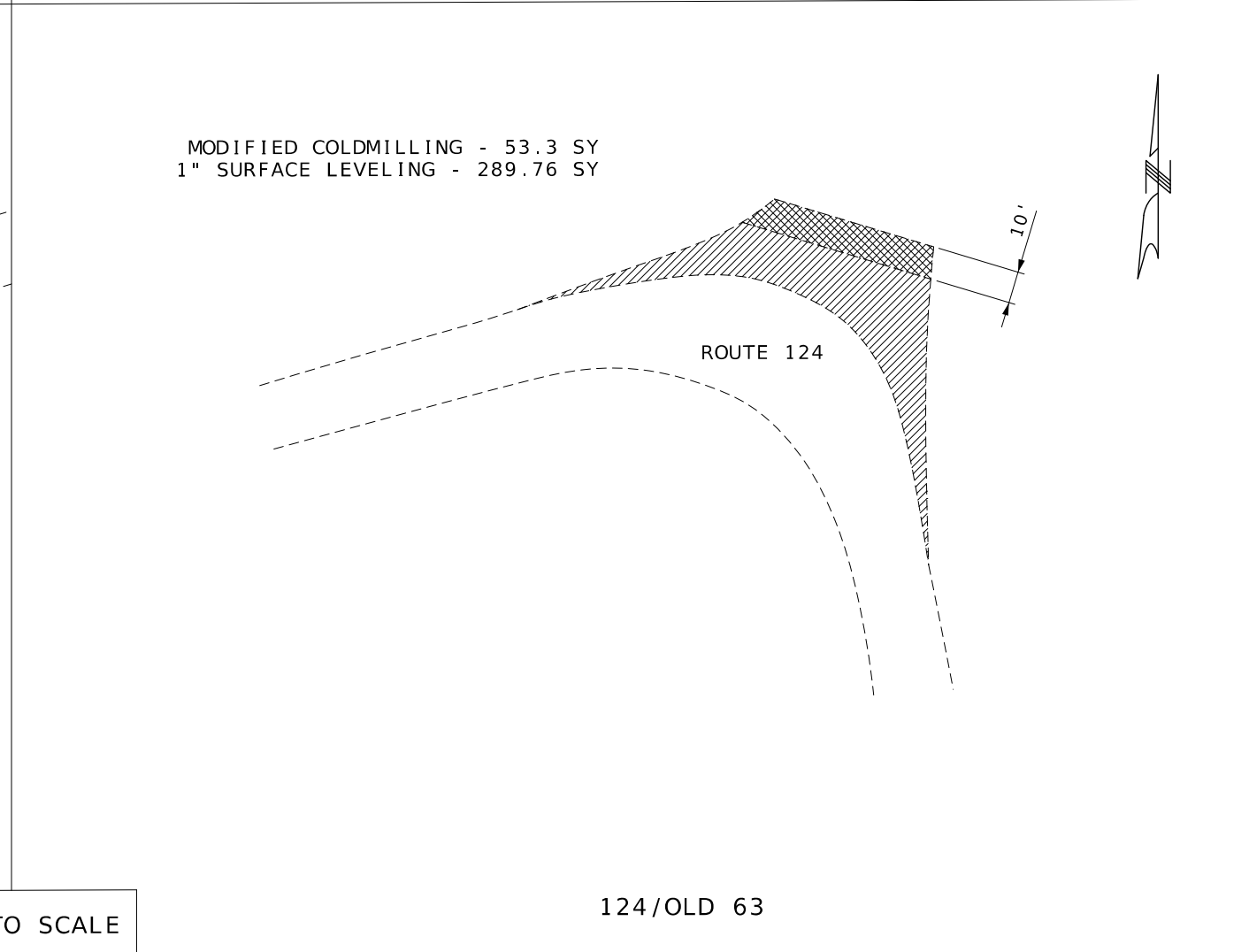
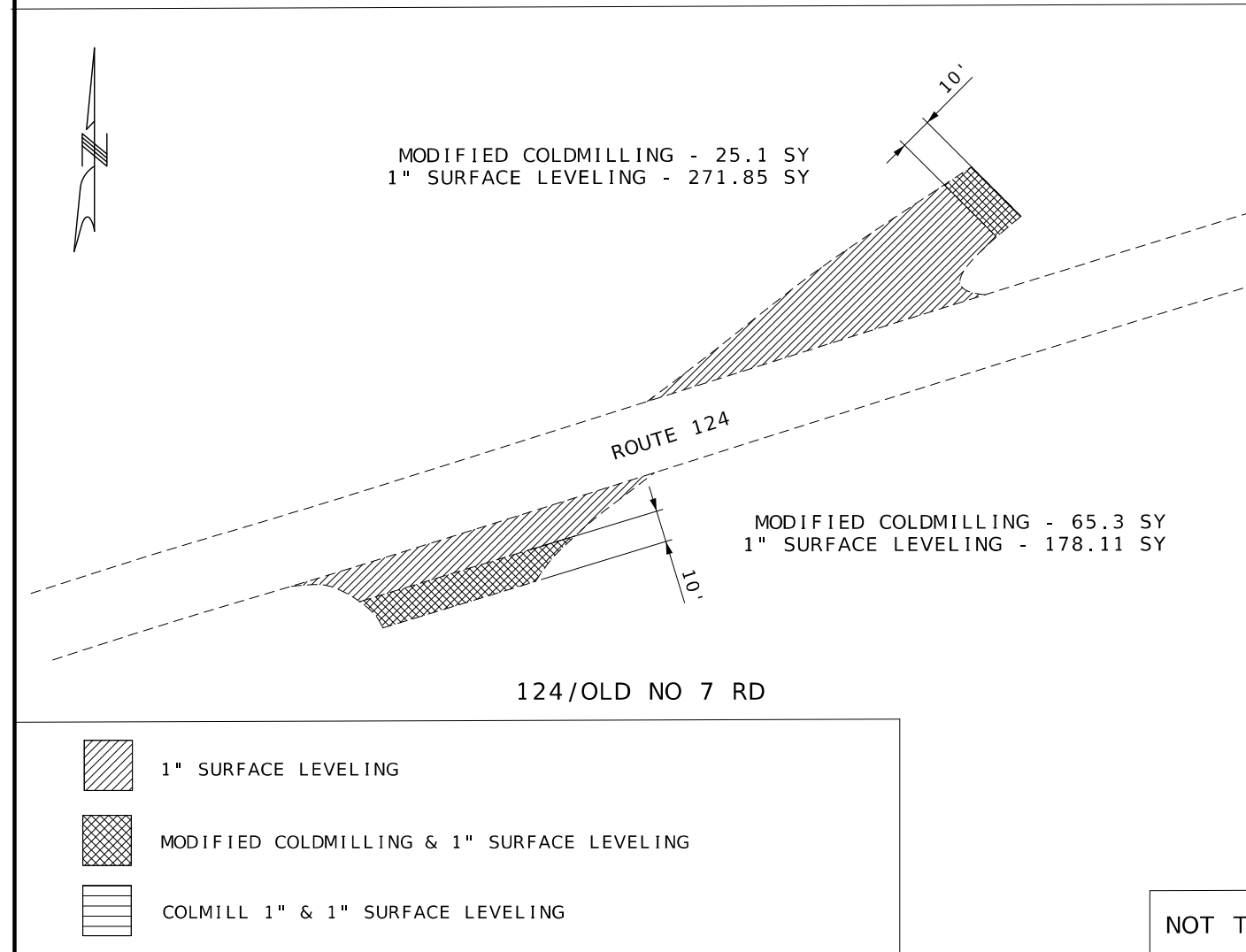
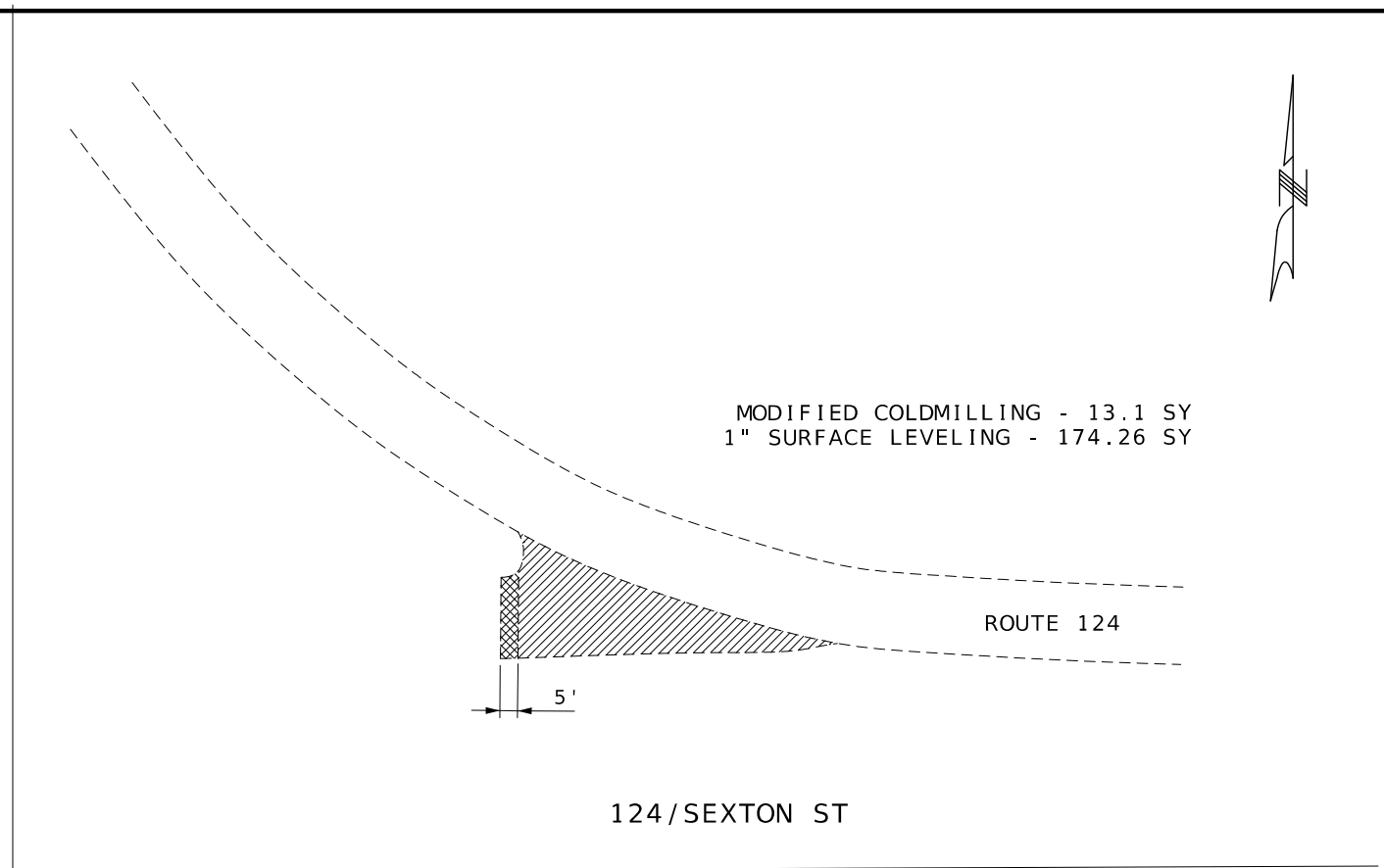
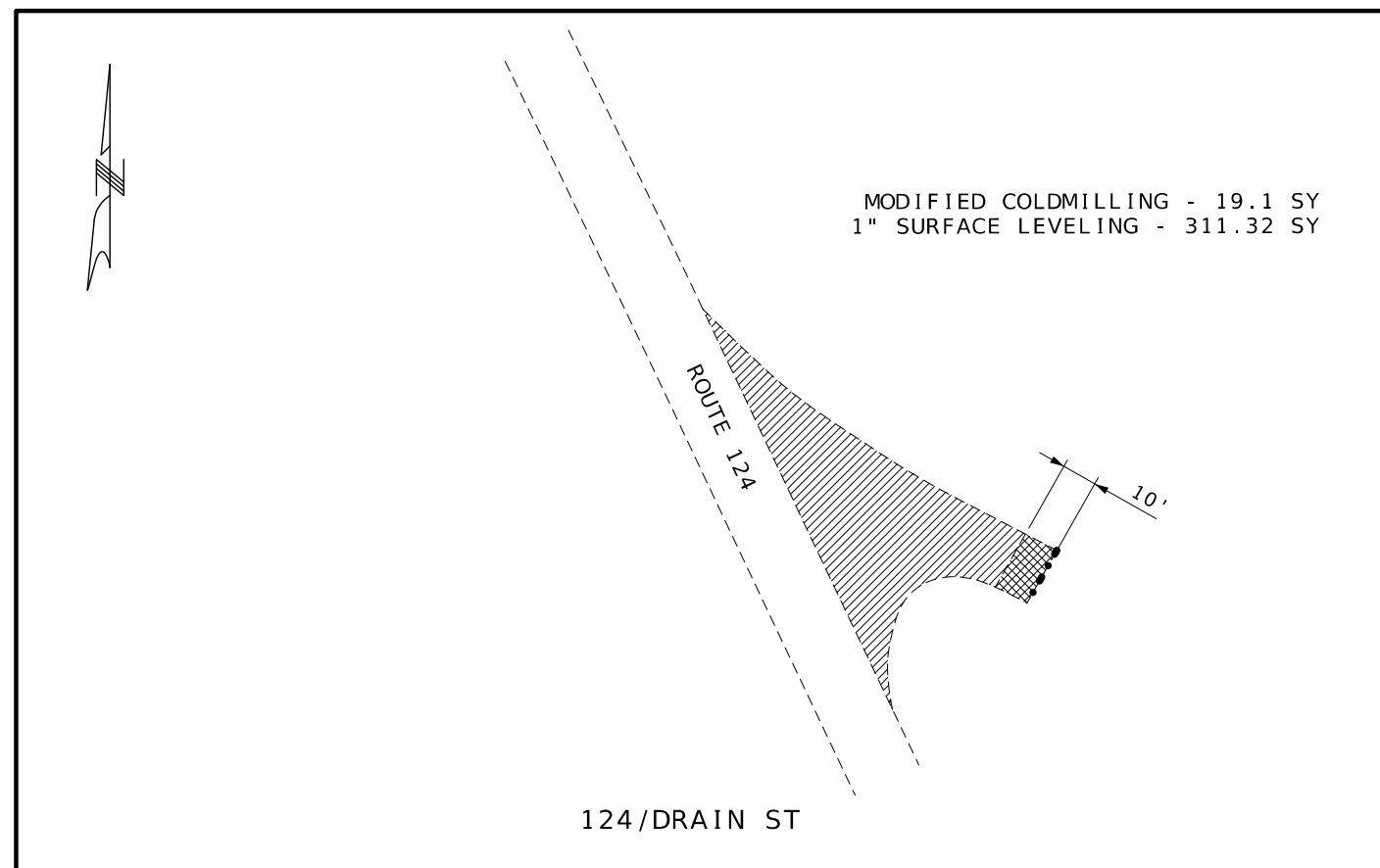
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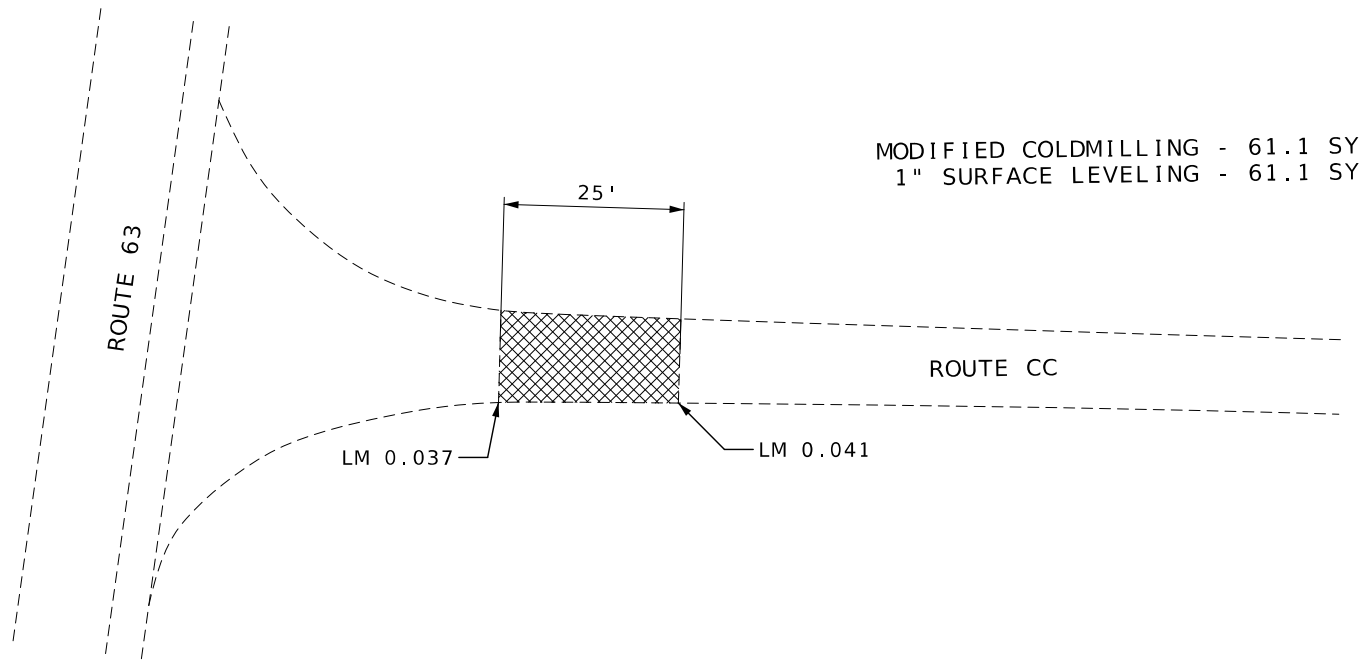
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

SPECIAL SHEET
SHEET 2 OF 7

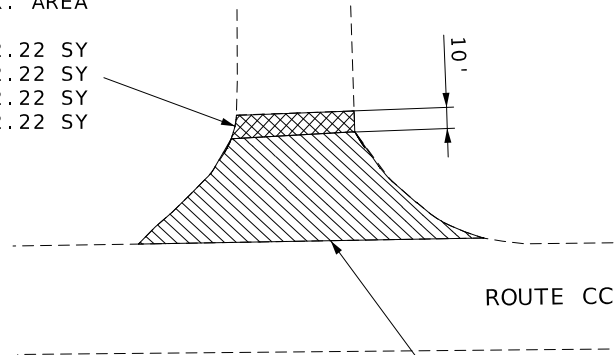
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BEGINNING ROUTE CC AT US 63
EB L.M. 0.037

MOD. COLDMILLING - APPROX. AREA

LARK SONG LN - 22.22 SY
ROBINSON RD - 22.22 SY
WALKER ST - 22.22 SY
WENTZ ST - 22.22 SY



APPROX. INTERSECTION AREA
1" SURFACE LEVELING

LARK SONG LN - 67.86 SY
ROBINSON RD - 67.86 SY
WALKER ST - 67.86 SY
WENTZ ST - 67.86 SY



1" SURFACE LEVELING

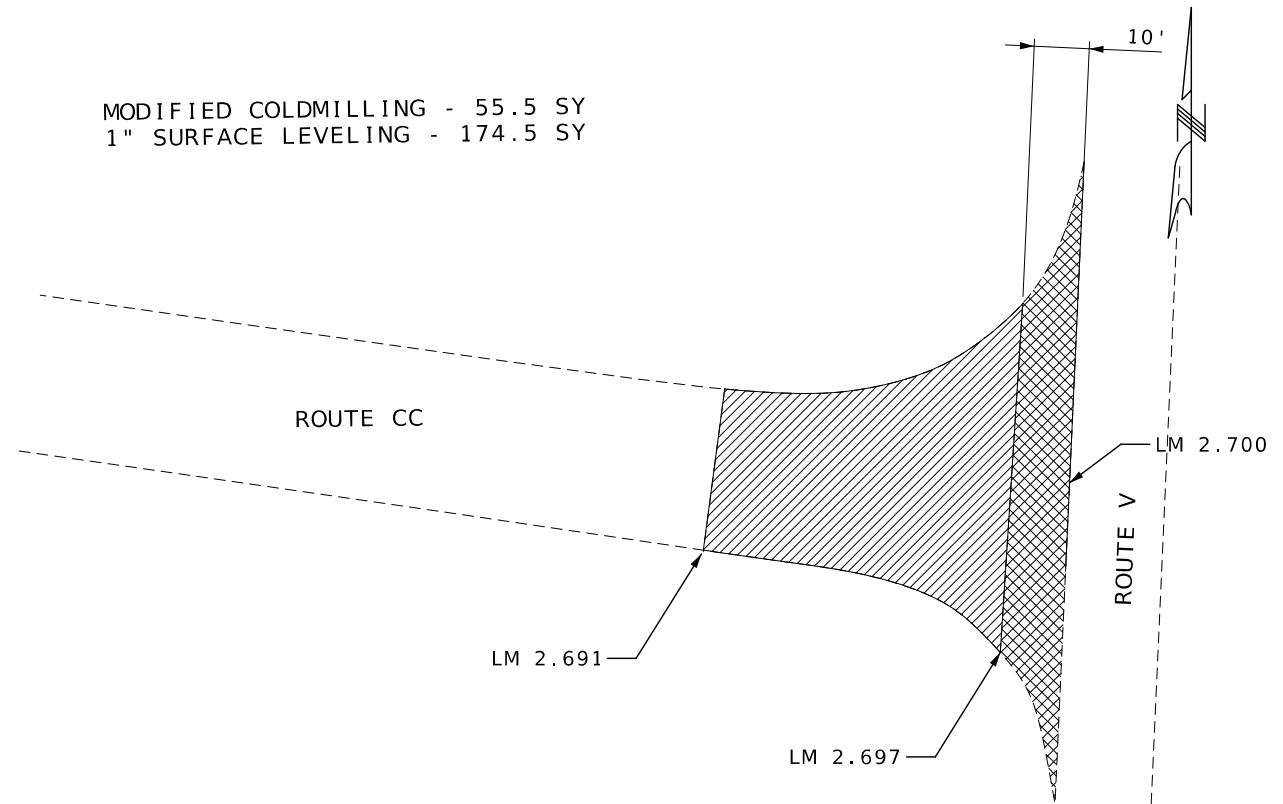


MODIFIED COLDMILLING & 1" SURFACE LEVELING

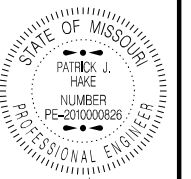


COLMILL 1" & 1" SURFACE LEVELING

NOT TO SCALE



END CC
EB LOG MILE 2.700



DATE PREPARED
8/12/2025

ROUTE
VAR

STATE
MO

DISTRICT
CD

SHEET NO.
7

COUNTY
BOONE/HOWARD

JOB NO.
JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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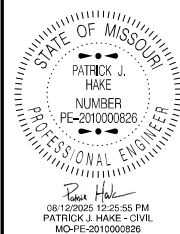
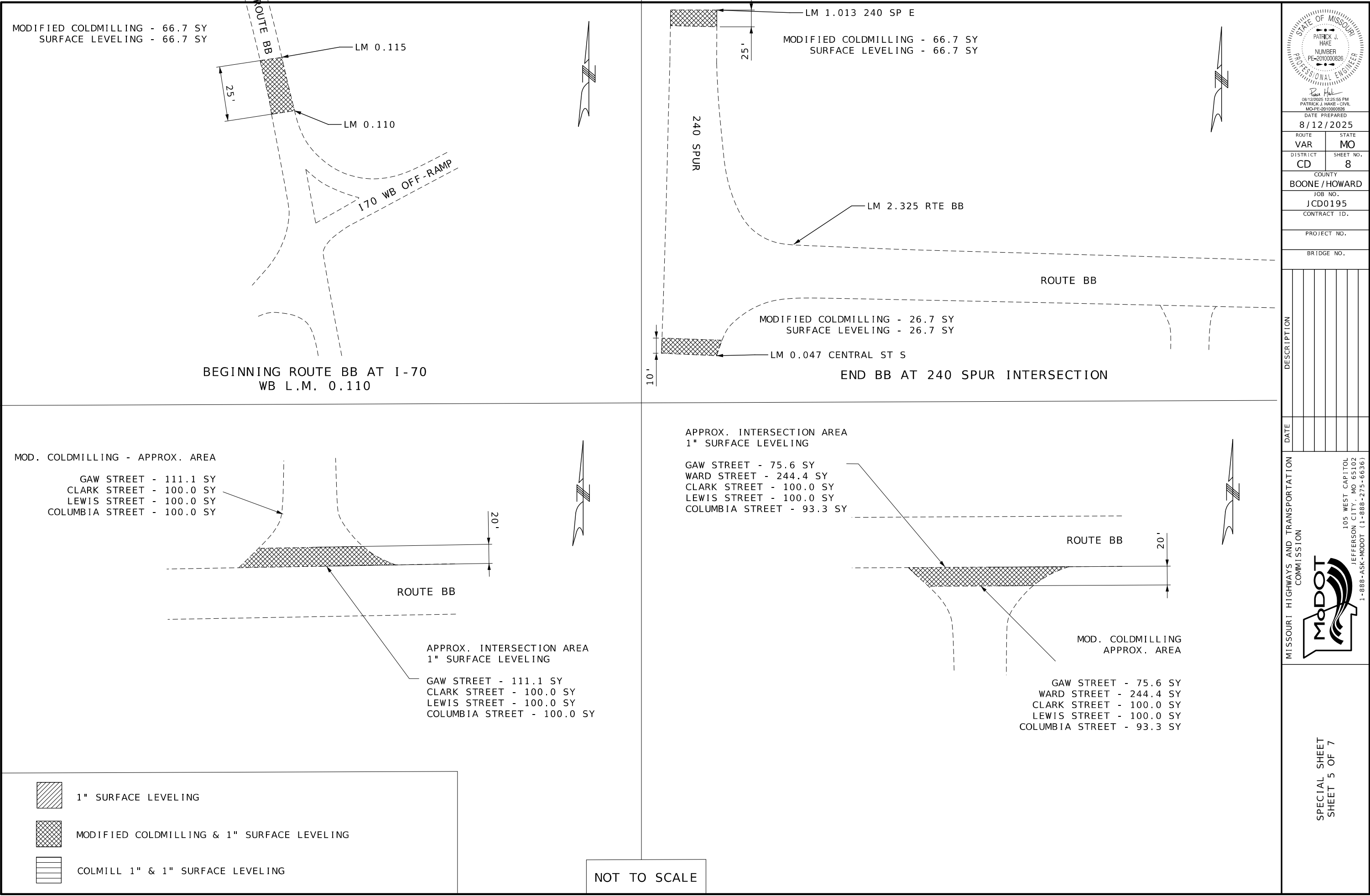
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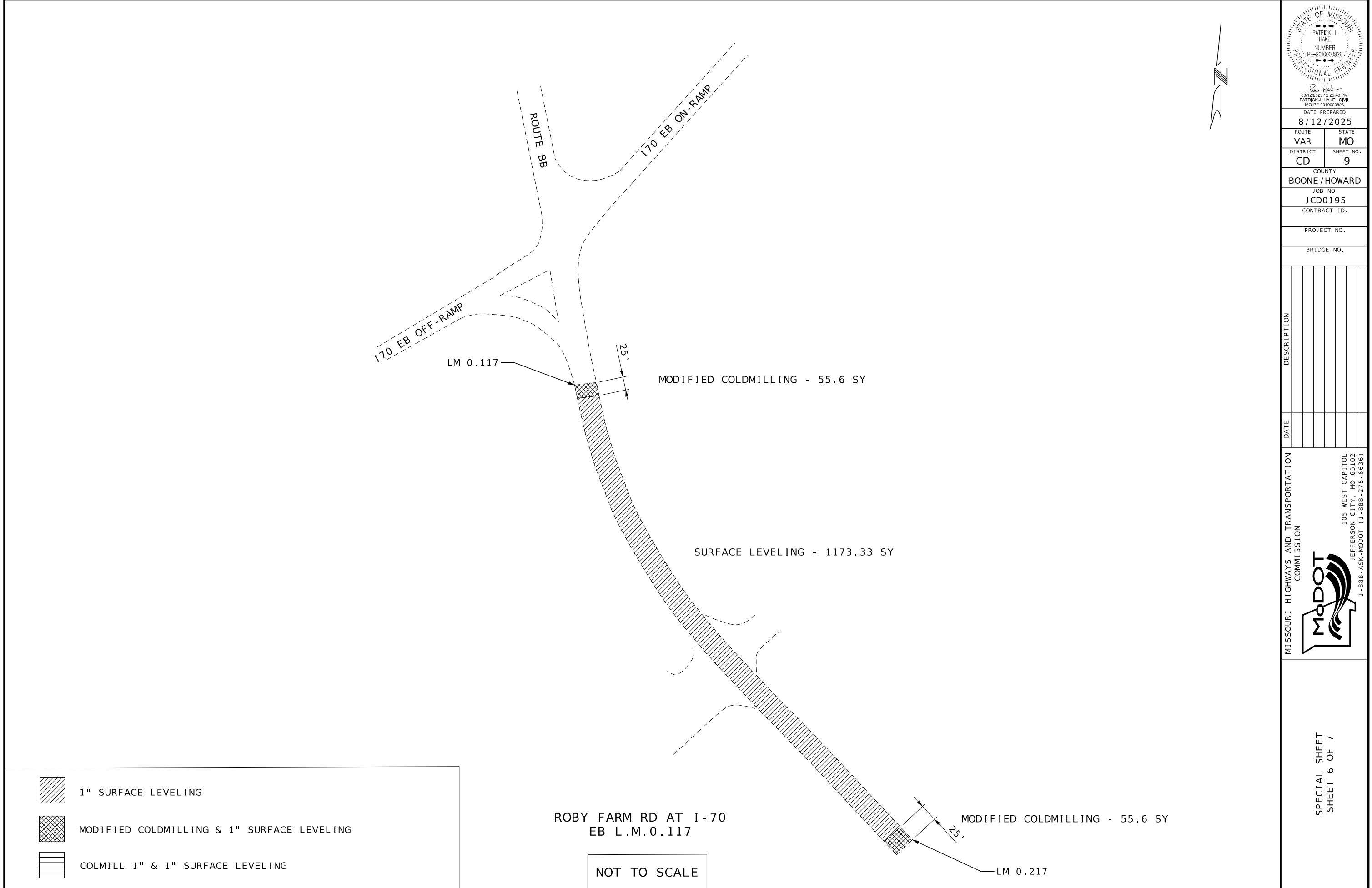
DATE PREPARED 8/12/2025	
ROUTE VAR	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY BOONE/HOWARD	
JOB NO. JCD0195	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
SHEET 5 OF 7



1" SURFACE LEVELING



MODIFIED COLDMILLING & 1" SURFACE LEVELING



COLMILL 1" & 1" SURFACE LEVELING



DATE PREPARED
8/12/2025

ROUTE
VAR

STATE
MO

DISTRICT
CD

SHEET NO.
9

COUNTY
BOONE / HOWARD

JOB NO.
JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SPECIAL SHEET
SHEET 6 OF 7

NOTES:

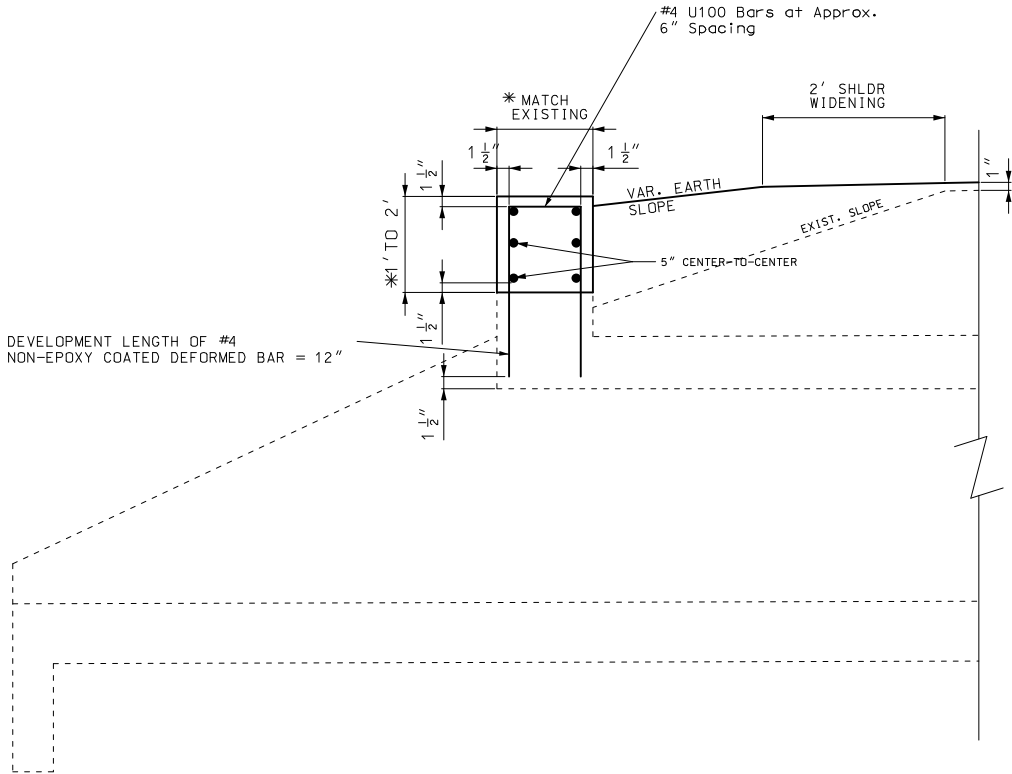
OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES.
HEAVY LINES INDICATE NEW WORK.

ALL REINFORCING STEEL SHALL BE 1/2" DIAMETER (#4 BARS) GRADE 60 STEEL DEFORMED REBAR.

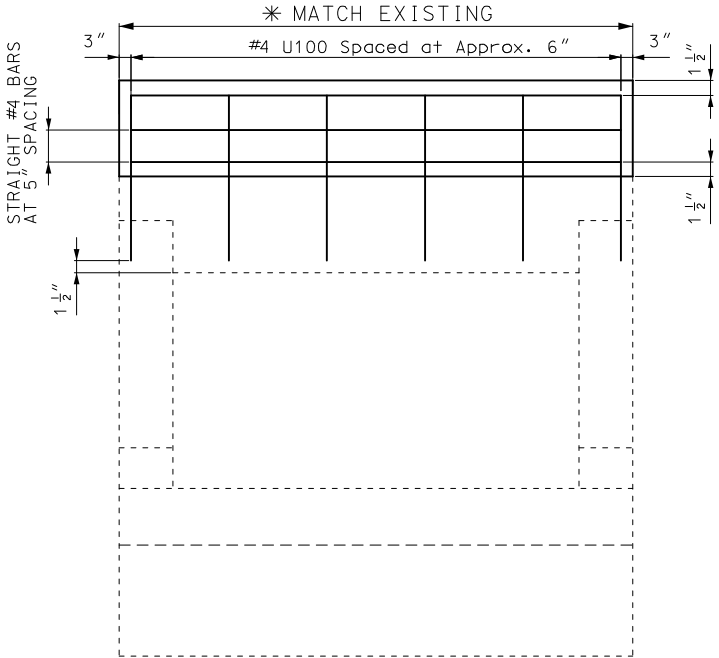
REINFORCING TO EXISTING CULVERT SHALL BE DRILLED AND EPOXIED.

U-100 BARS TO BE ADJUSTED IN FIELD TO ACHIEVE 12" DEVELOPMENT LENGTH INTO EXISTING HEADWALL WHEN POSSIBLE.

* DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE CONSTRUCTION OF HEADWALL MODIFICATION OR INSTALLATION OF REINFORCEMENT



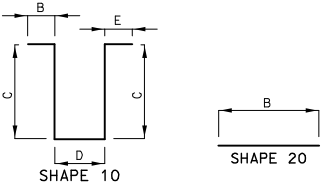
EXISTING TYPICAL BOX CULVERT
SECTION VIEW PERPENDICULAR TO C



EXISTING BOX CULVERTS
SECTION VIEW PARALLEL TO C

BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
										B		C		D		E		F		H		K				
										FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.
		4 S100			20																					
		4 U100			10	S		V																		



NOT TO SCALE

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

08/12/2025 12:25:36 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

8/12/2025

ROUTE

VAR

STATE

MO

DISTRICT

CD

SHEET NO.

10

COUNTY

BOONE / HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

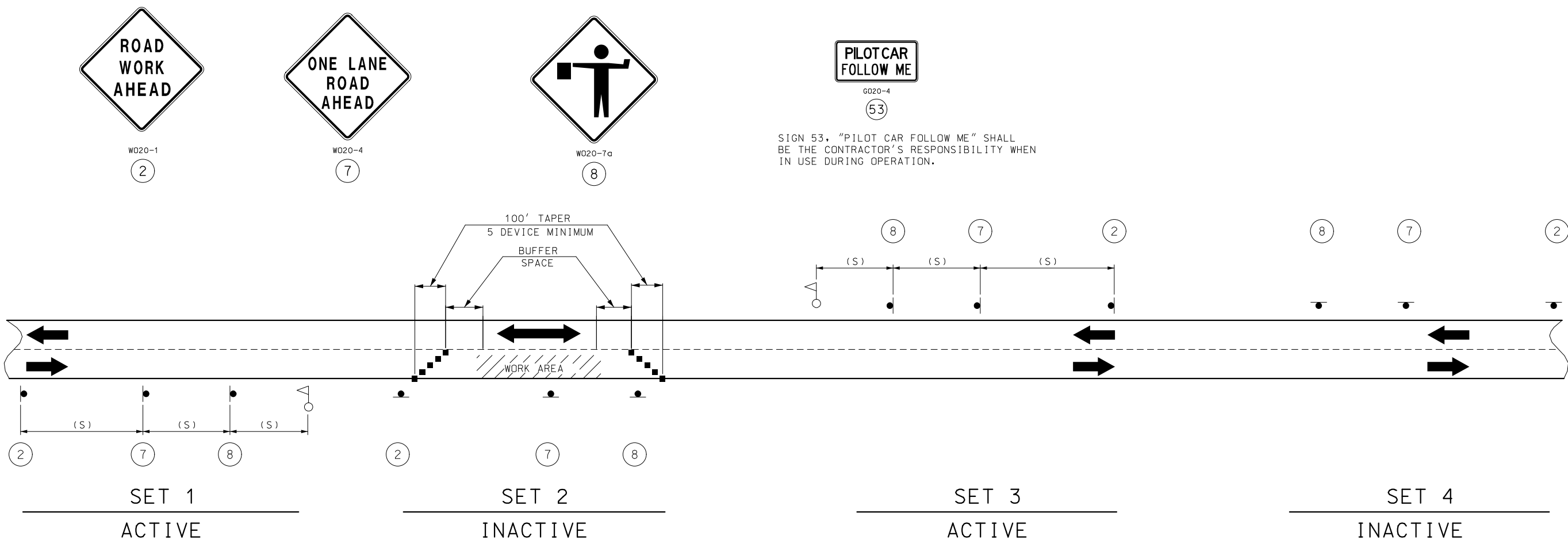
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MODOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SPECIAL SHEET

SHEET 7 OF 7



NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

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

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

■ - CHANNELIZERS

○ - FLAGGER

SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

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

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

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PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

8/12/2025

ROUTE

VAR

DISTRICT

CD

STATE

MO

SHEET NO.

12

COUNTY

BOONE / HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

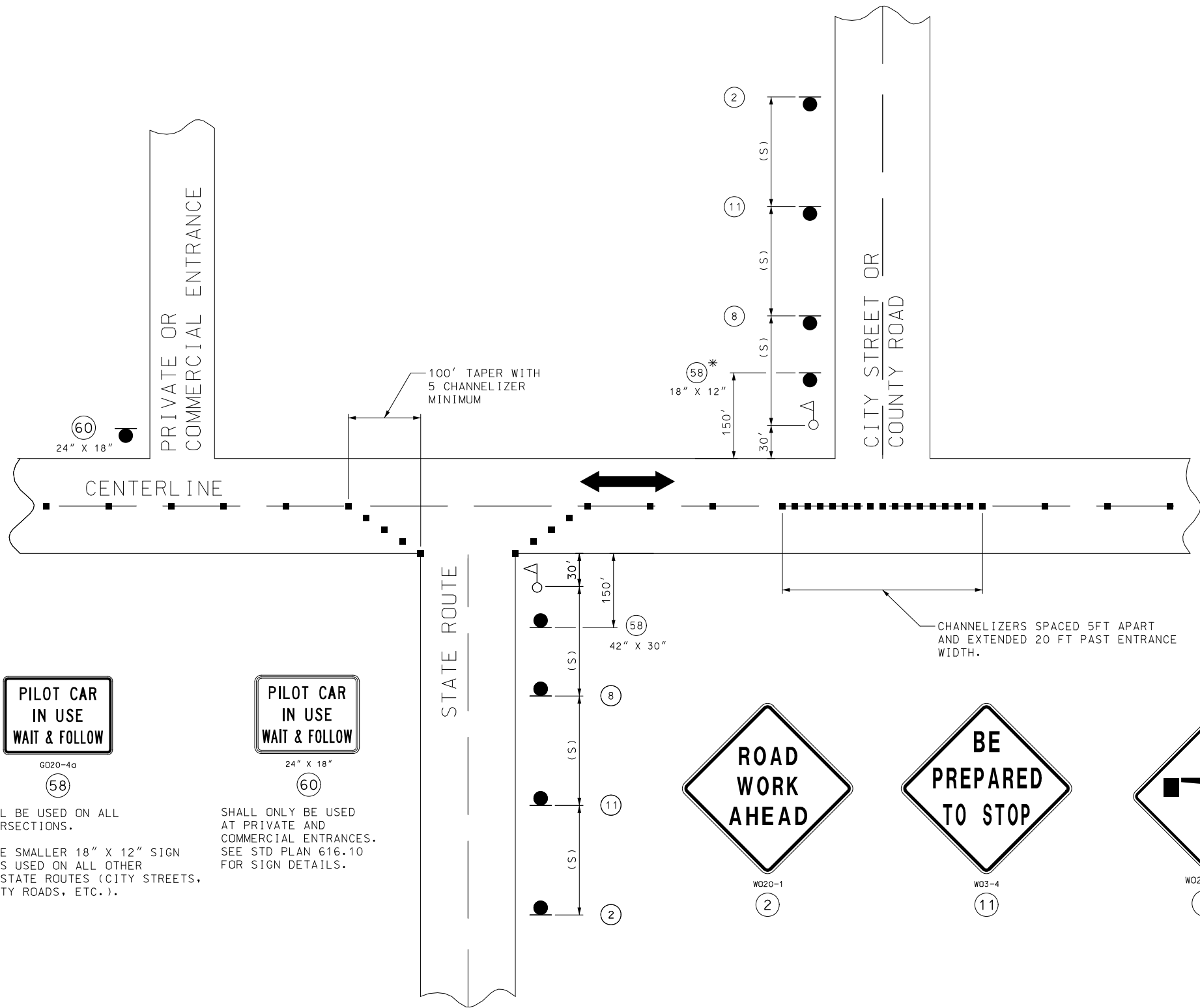
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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



SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	BUFFER/ WORK AREA (TYP.)
0-35	200	40
40-45	350	80
50-55	500	80
60-70	1000	120

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

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOTES:

WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

■ - CHANNELIZERS (AS SPECIFIED)

△ - FLAGGER

NOT TO SCALE

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER
PE-2010000826

PROFESSIONAL ENGINEER

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PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

8/12/2025

ROUTE

VAR

DISTRICT

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STATE

MO

SHEET NO.

13

COUNTY

BOONE/HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

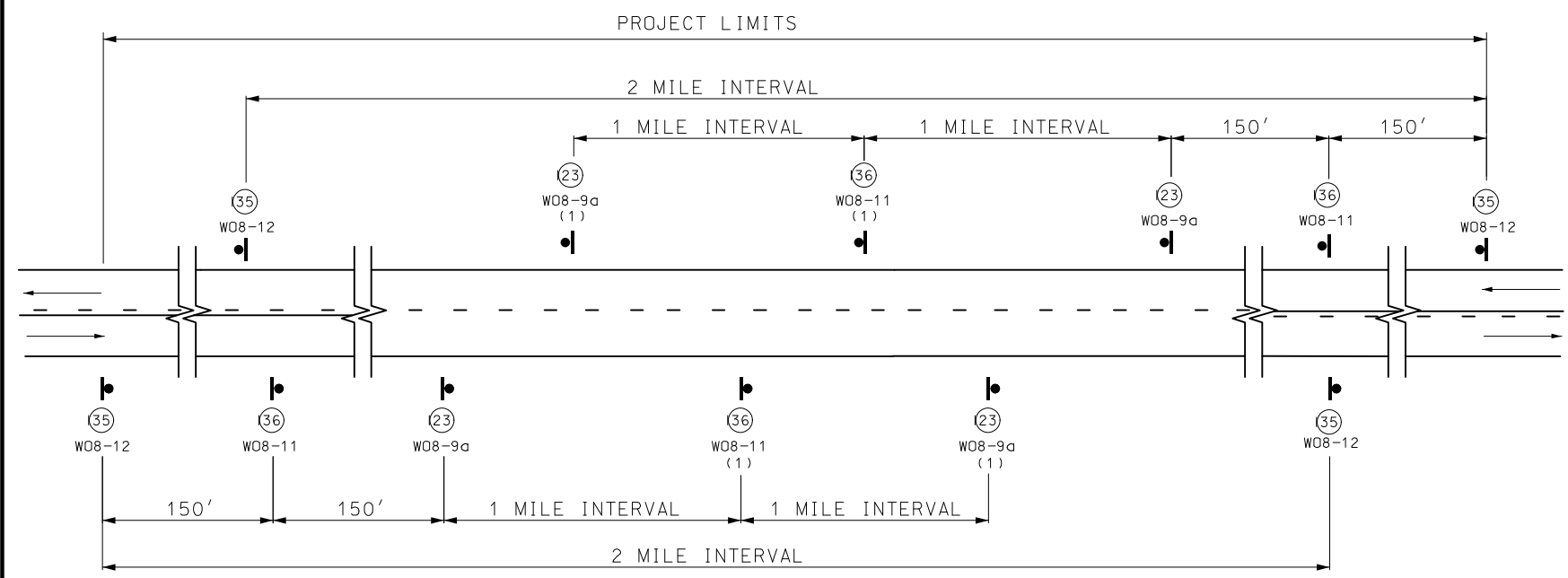
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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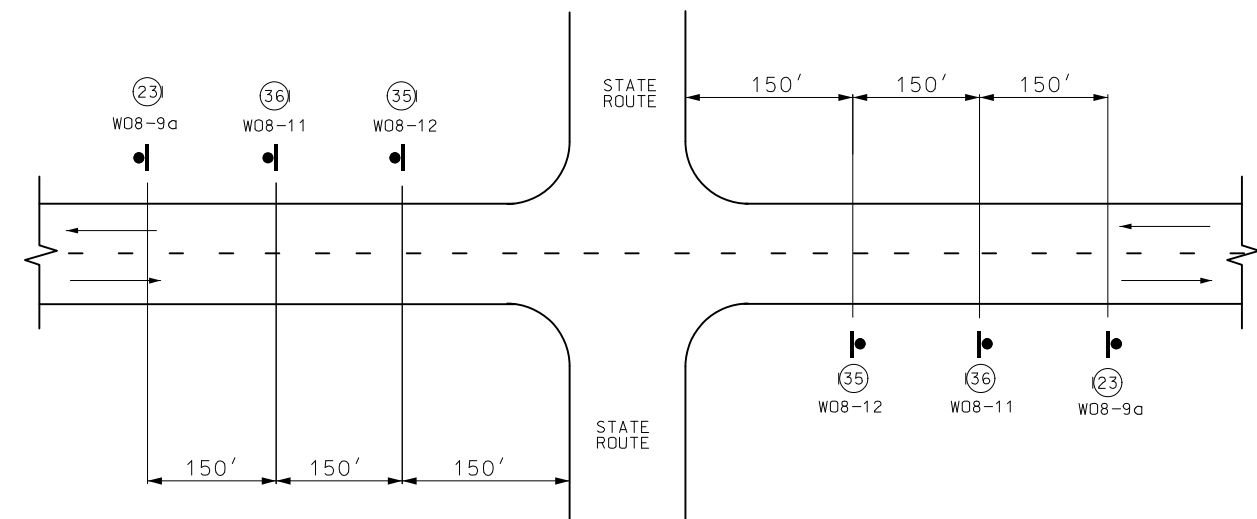
SIDE ROADS ENTERING WORK ZONES

TRAFFIC CONTROL
SHEET 3 OF 7

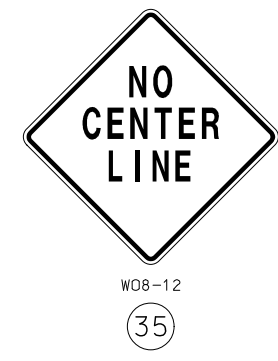
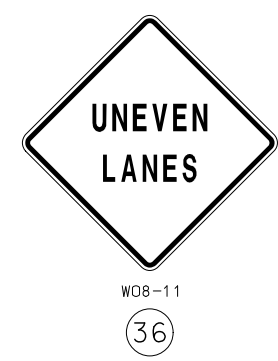


SIGN SPACING FOR MAINLINE

(DETAIL SHOWN IS BASED ON A PROJECT MEETING ALL CONDITIONS: NO CENTER STRIPE, UNEVEN LANES AND SHOULDER DROP OFF.)
(1) IF ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP OFF), THE SIGN SPACING SHALL BE AT 1 MILE INTERVALS.



SIGN SPACING AT STATE ROUTE INTERSECTIONS



GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING SEE STANDARD PLAN 620.19.

SIGN (23) SHALL BE INSTALLED WHEN TRENCH FOR SHOULDER WIDENING HAS BEEN STARTED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE TRENCH DEPTH IS $\leq 2"$.

SIGN (23) IS PLACED AT APPROXIMATELY ONE MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-HALF MILE OF THE NORMAL MAINLINE SIGN (23), THE LATTER MAY BE ELIMINATED.

WHEN SHOULDER DROP-OFF SIGNS WITH UNEVEN LANES ARE BOTH SPECIFIED, ALTERNATING SIGN MESSAGES SHALL BE USED AT 1 MILE SPACINGS.

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

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

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

WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

TRAFFIC CONTROL LEGEND

● SIGN (SINGLE SIDED)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 7

STATE OF MISSOURI
PATRICK J. HAKE
NUMBER
PE-2010000826
PROFESSIONAL ENGINEER

08/12/2025 12:25:07 PM
PATRICK J. HAKE - CIVIL
MO-PE-2010000826

DATE PREPARED
8/12/2025

ROUTE
VAR

STATE
MO

DISTRICT
CD

SHEET NO.
14

COUNTY
BOONE / HOWARD

JOB NO.
JCD0195

CONTRACT ID.

PROJECT NO.

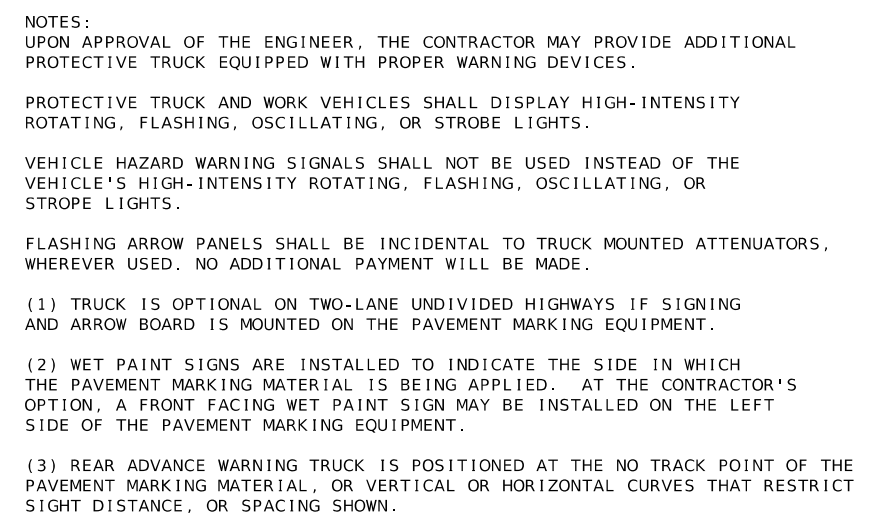
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TRAFFIC CONTROL
SHEET 5 OF 7

DATE PREPARED	
8/12/2025	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	15
COUNTY	
BOONE / HOWARD	
JOB NO.	
JCD0195	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102	

TRAFFIC CONTROL PLAN

- STATIONARY LANE CLOSURE WITH FLAGGER
- SHOULDER CLOSURE



W020-1

(2)



W020-4

(7)



W021-5b

(21)



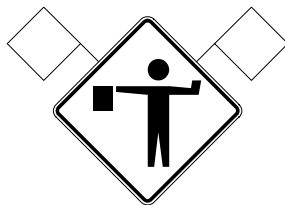
W05-1

(34)



W08-17P

(23a)



W020-7a

(8)



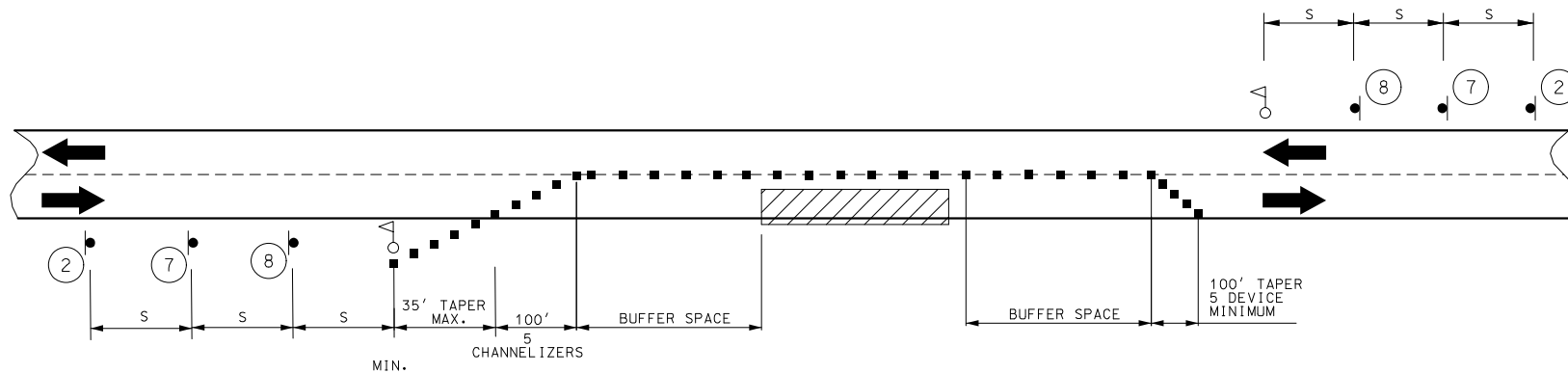
W08-17

(23)

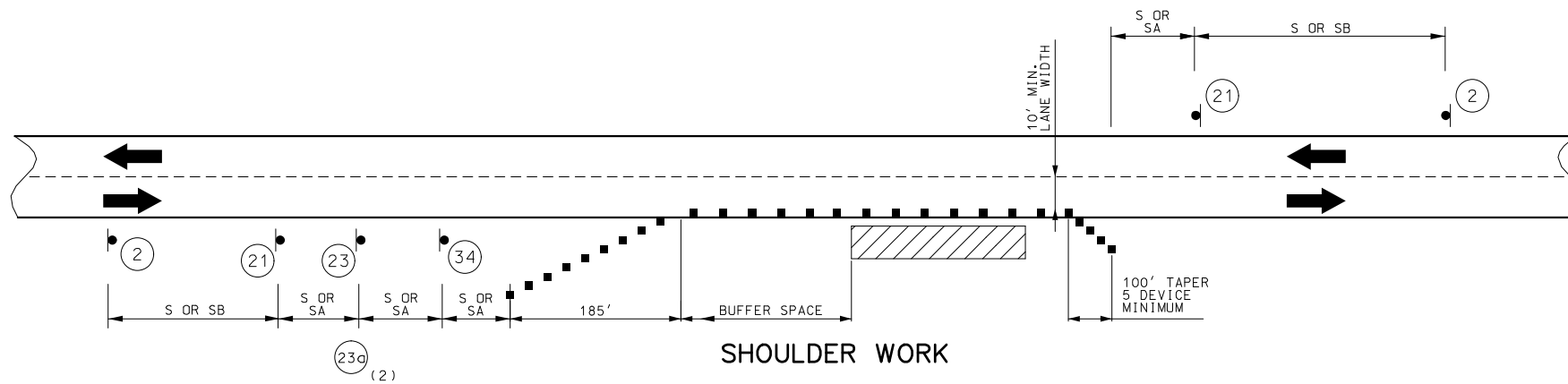
(2) SIGN 23a SHALL BE USED IN ADDITION TO THE SHOULDER DROP-OFF SIGN WHEN SHOULDER DROP-OFF SIGN IS IN PLACE FOR MORE THAN THREE DAYS.

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (S)	MINIMUM TAPER LENGTHS				MAXIMUM CHANNELIZER SPACING	
	SHLDR (1) (T1)	LANE (T2)				
		FOR LATERAL SHIFTS (W)			THROUGH TAPER	THROUGH WORK AREA
		10 FT	11 FT	12 FT		
0-35	70 FT	205 FT	225 FT	245 FT	35 FT	40 FT
40-45	150 FT	450 FT	495 FT	540 FT	40 FT	80 FT
50-55	185 FT	550 FT	605 FT	660 FT	50 FT	80 FT
60-70	235 FT	700 FT	770 FT	840 FT	60 FT	120 FT

(1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.



LANE CLOSURE ONE LANE TWO WAY OPERATION USING FLAGGERS



SHOULDER WORK

NOTES:
SEE TRAFFIC CONTROL SHEET 2 FOR SIGN, DEVICE AND BUFFER SPACING.

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

TRAFFIC CONTROL TYPICAL FOR BOTH DIRECTIONS OF TRAFFIC.

SHORT TERM TEMPORARY RUMBLE STRIPS SHALL BE ORANGE IN COLOR AND SHALL CONSIST OF 3 STRIPS.

TWO SETS OF RUMBLE STRIPS (5 & 6) MAY BE USED SIMULTANEOUSLY OR ONE SET OF RUMBLE STRIPS MAY BE USED. IF ONE SET OF RUMBLE STRIPS ARE USED, THE PREFERRED PLACEMENT IS AT LOCATION (5).



- FLAGGER



CHANNELIZERS

NOT TO SCALE

TRAFFIC CONTROL LEGEND

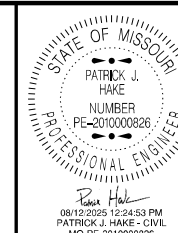
▲ SIGN (SINGLE SIDED)

■ CHANNELIZER

▨ WORK ZONE

||| TEMPORARY
SHORT-TERM RUMBLE
STRIPS

TRAFFIC CONTROL
SHEET 6 OF 7



DATE PREPARED

8/12/2025

ROUTE STATE

VAR MO

DISTRICT SHEET NO.

CD 16

COUNTY

BOONE/HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

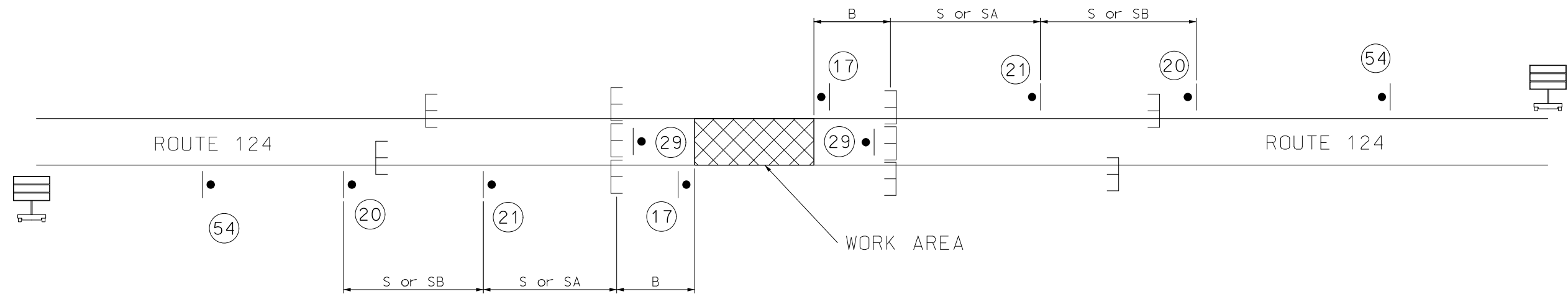
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



TRAFFIC CONTROL PLAN
ROAD CLOSURE FOR CULVERT REPLACEMENTS



SPEED	SIGN SPACING (FT) (1)		OPTIONAL BUFFER LENGTH (FT) (B)
	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	
0-35	200	200	250
40-45	350	500	360
50-55	500	1000	495
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640	730

NOT TO SCALE

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

TYPE III MOVEABLE BARRICADE
W/ LIGHT

CHANGEABLE MESSAGE SIGN (CMS)

NOTES:

NO SIGNED TRAFFIC DETOUR FOR ROUTE 124 CULVERT REPLACEMENTS.

CHANGEABLE MESSAGES SIGNS TO BE LOCATED AS APPROVED BY THE ENGINEER.

NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER
PE-2010000826

PROFESSIONAL ENGINEER

08/12/2025 12:24:45 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

8/12/2025

ROUTE

VAR

DISTRICT

CD

STATE

MO

SHEET NO.

17

COUNTY

BOONE / HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

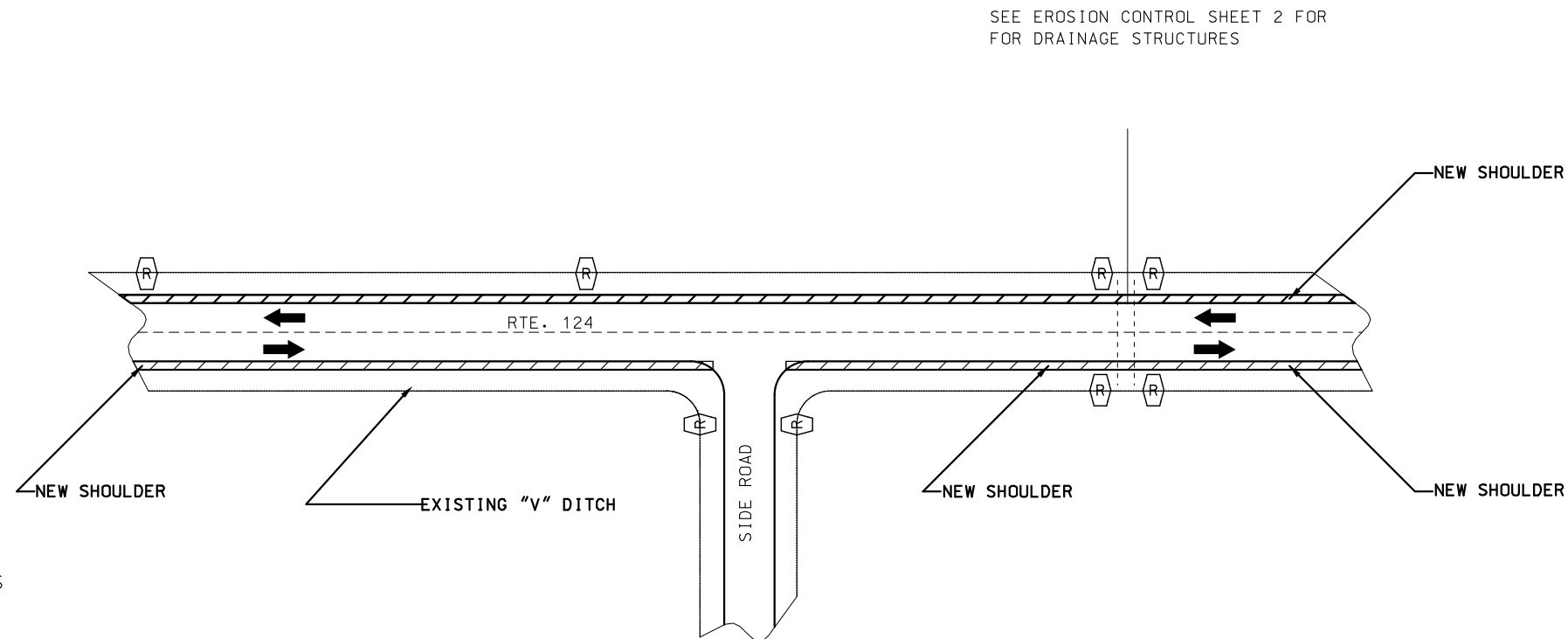
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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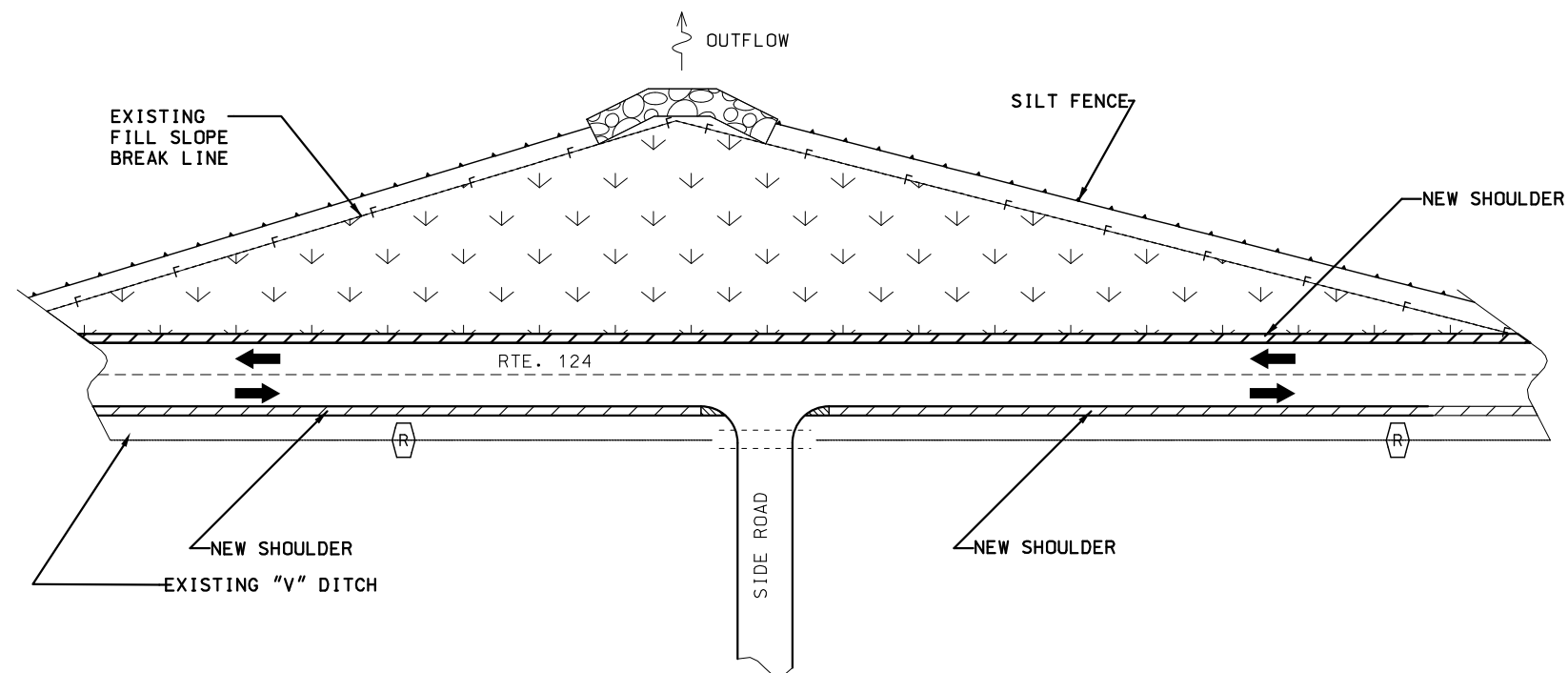
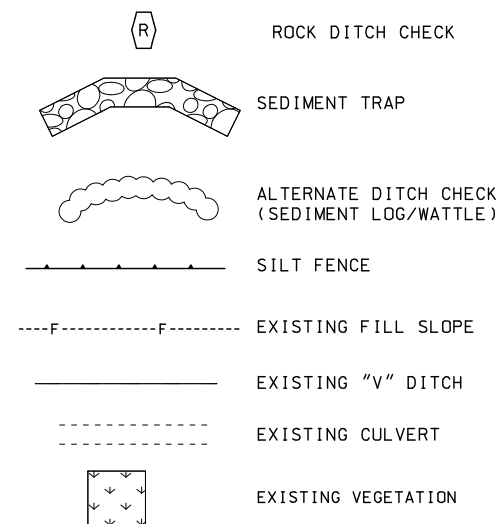


GENERAL NOTES:

1) ALL TEMPORARY EROSION CONTROL MEASURES TO BE PLACED IN A LOCATION THAT PREVENTS SEDIMENT FROM ENTERING ANY STREAM OR FROM LEAVING THE RIGHT OF WAY. EXACT SIZE AND LOCATION OF ALL TEMPORARY EROSION CONTROL MEASURES TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

2) REFER TO JOB SPECIAL PROVISIONS AND
STANDARD PLAN 806.10J FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

TEMPORARY EROSION CONTROL LEGEND



NOT TO SCALE

EROSION CONTROL
SHEET 1 OF 2



08/12/2025 12:24:31 PM
PATRICK J. HAKE - CIVIL
MO-PE-2010000826

DATE PREPARED
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ROUTE	STATE
VAR	MO

DISTRICT	SHEET NO.
CD	18

COUNTY
BOONE / HOWARD

JOB NO.
JCD0195

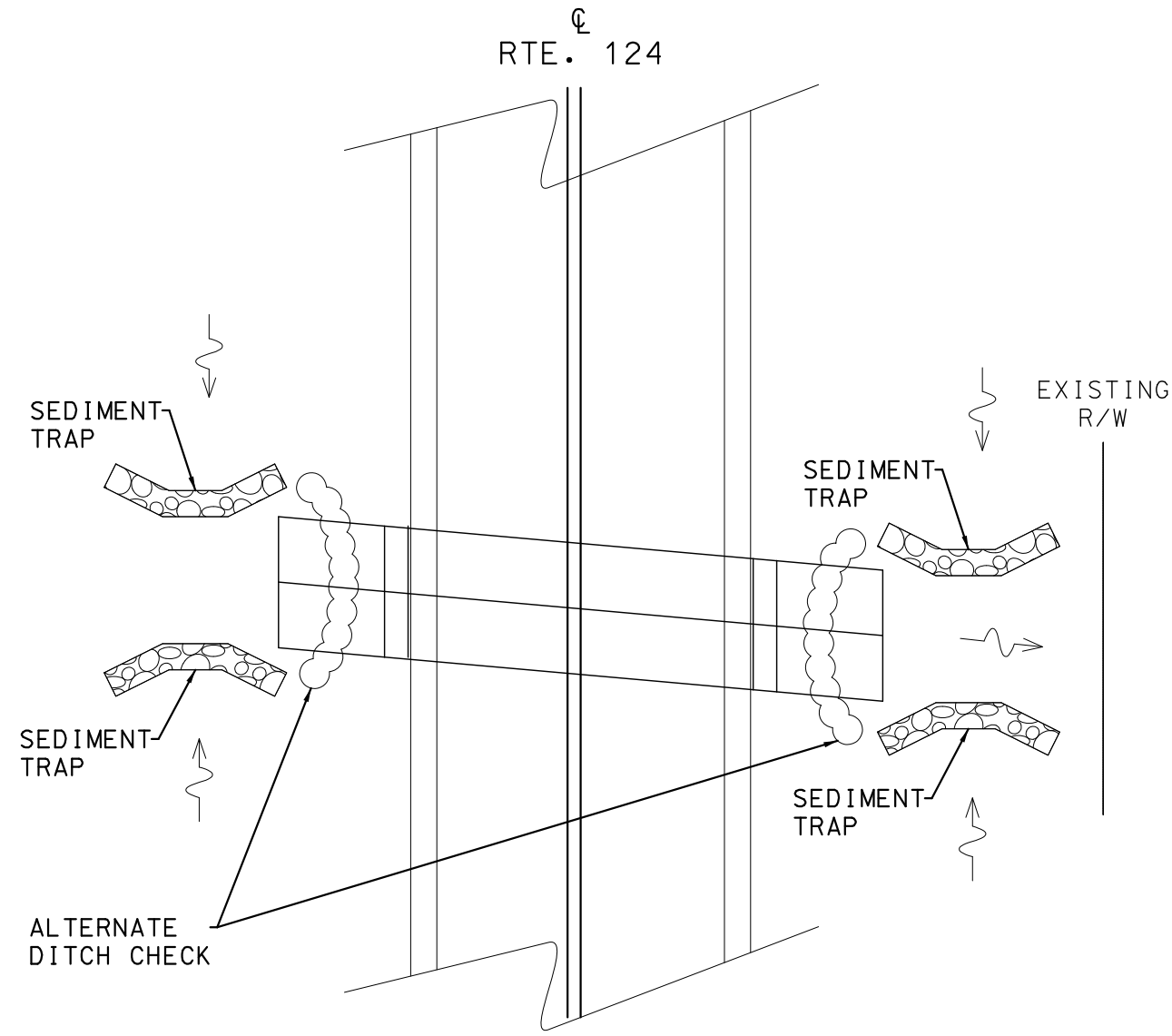
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PROJECT NO.

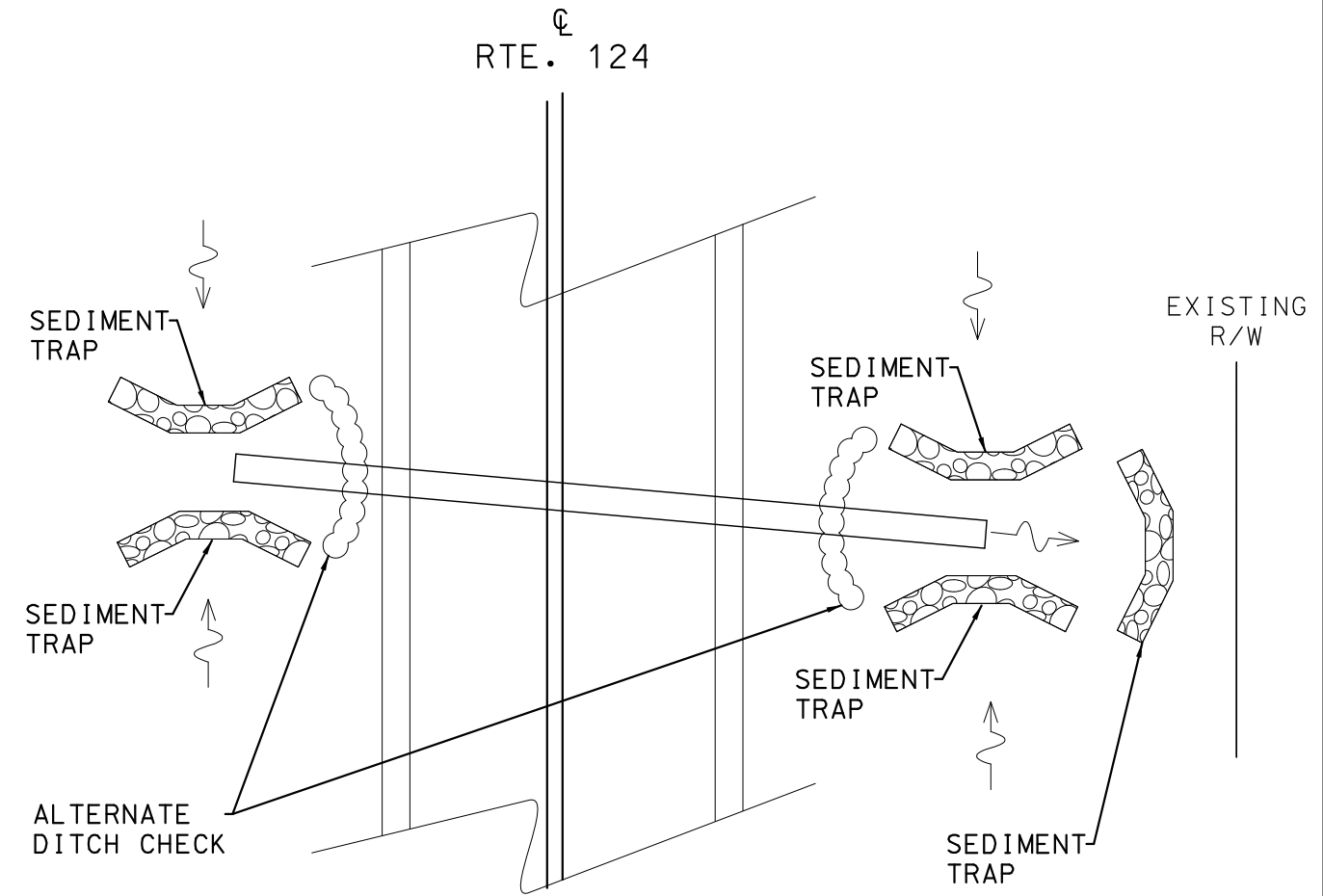
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

LARGE DRAINAGE
STRUCTURE CROSSINGS
PLACING DETAILS



SMALL DRAINAGE
STRUCTURE CROSSINGS
PLACING DETAILS



NOT TO SCALE

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

DATE PREPARED

8/12/2025

ROUTE

VAR

DISTRICT

CD

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MO

SHEET NO.

19

COUNTY

BOONE / HOWARD

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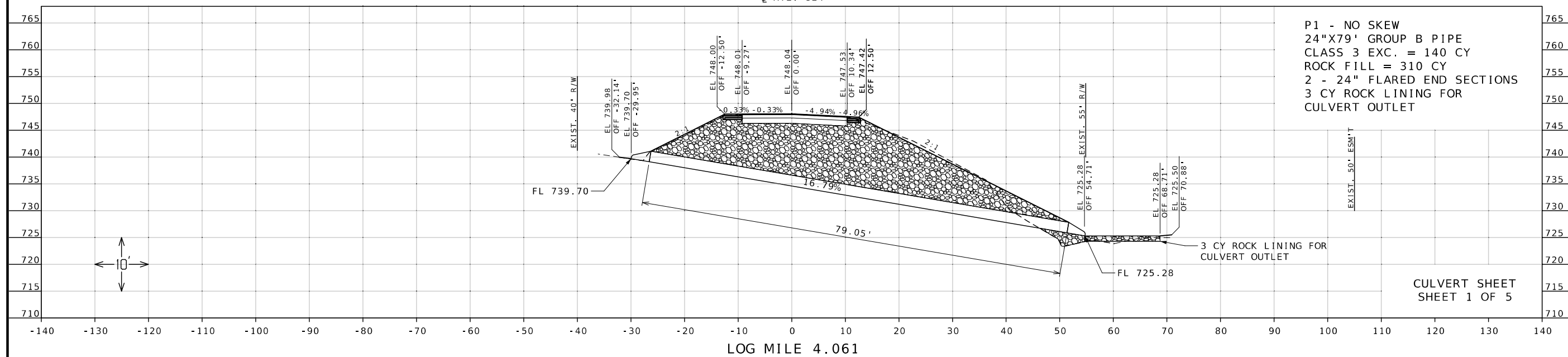
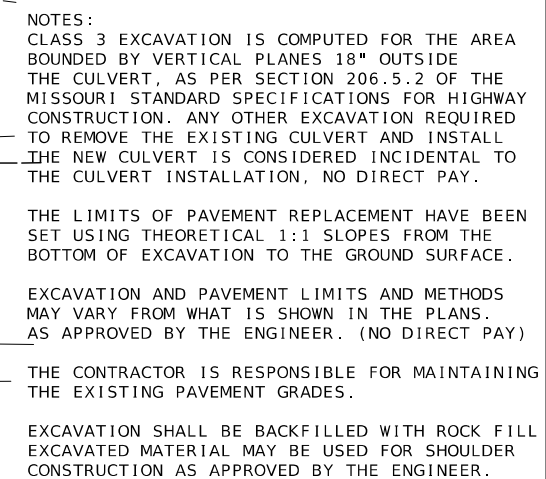
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

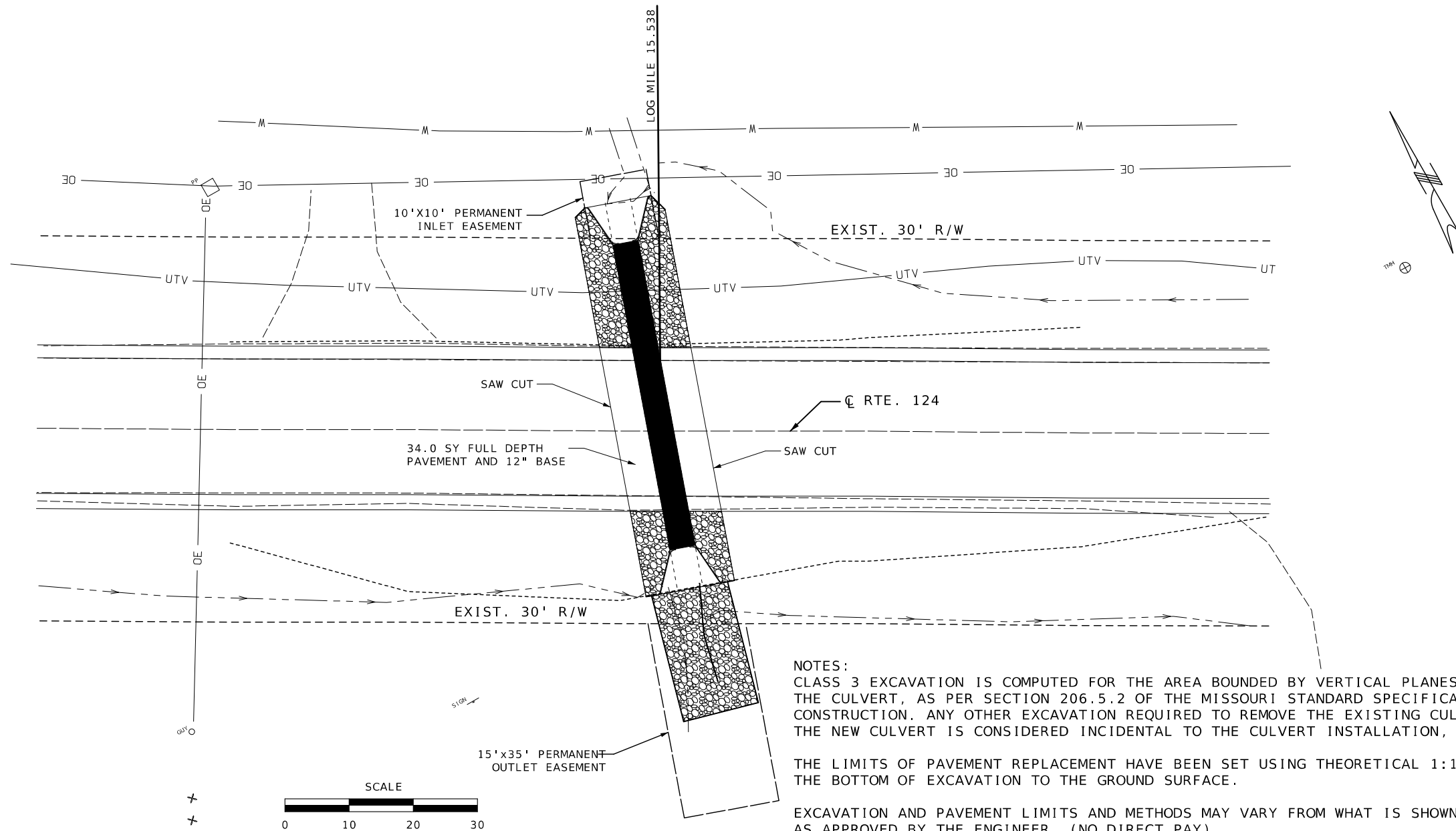
1-888-ASK-MODOT (1-888-275-6636)



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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





NOTES:

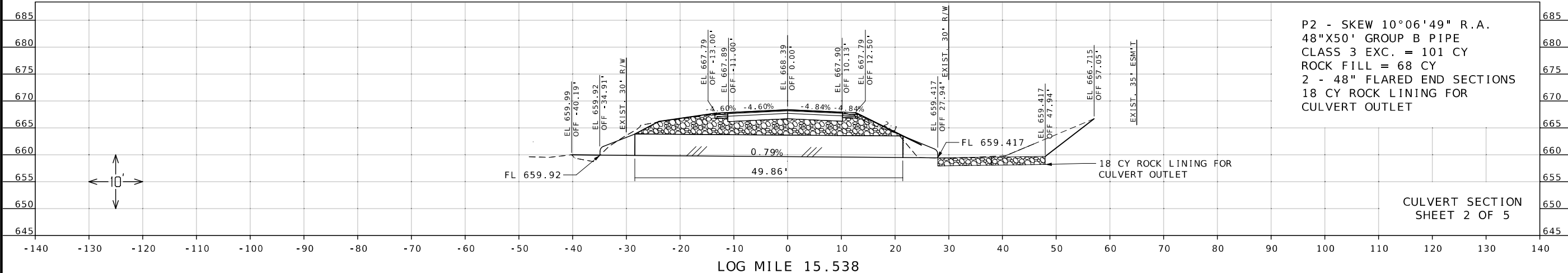
CLASS 3 EXCAVATION IS COMPUTED FOR THE AREA BOUNDED BY VERTICAL PLANES 18" OUTSIDE THE CULVERT, AS PER SECTION 206.5.2 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. ANY OTHER EXCAVATION REQUIRED TO REMOVE THE EXISTING CULVERT AND INSTALL THE NEW CULVERT IS CONSIDERED INCIDENTAL TO THE CULVERT INSTALLATION, NO DIRECT PAY.

THE LIMITS OF PAVEMENT REPLACEMENT HAVE BEEN SET USING THEORETICAL 1:1 SLOPES FROM THE BOTTOM OF EXCAVATION TO THE GROUND SURFACE.

EXCAVATION AND PAVEMENT LIMITS AND METHODS MAY VARY FROM WHAT IS SHOWN IN THE PLANS. AS APPROVED BY THE ENGINEER. (NO DIRECT PAY)

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING PAVEMENT GRADES.

EXCAVATION SHALL BE BACKFILLED WITH ROCK FILL EXCAVATED MATERIAL MAY BE USED FOR SHOULDER CONSTRUCTION AS APPROVED BY THE ENGINEER.



P2 - SKEW 10°06'49" R.A.
48"X50' GROUP B PIPE
CLASS 3 EXC. = 101 CY
ROCK FILL = 68 CY
2 - 48" FLARED END SECTIONS
18 CY ROCK LINING FOR
CULVERT OUTLET

CULVERT SECTION
SHEET 2 OF 5

STATE OF MISSOURI

PATRICK J. HAKE

NUMBER

PE-2010000826

PROFESSIONAL ENGINEER

08/12/2025 2:24:45 PM

PATRICK J. HAKE - CIVIL

MO-PE-2010000826

DATE PREPARED

8/12/2025

ROUTE

124

STATE

MO

DISTRICT

CD

SHEET NO.

21

COUNTY

BOONE/HOWARD

JOB NO.

JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

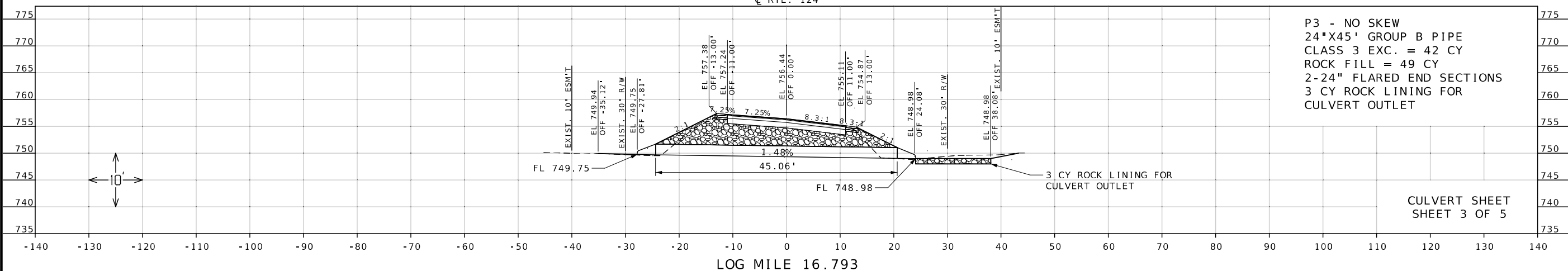
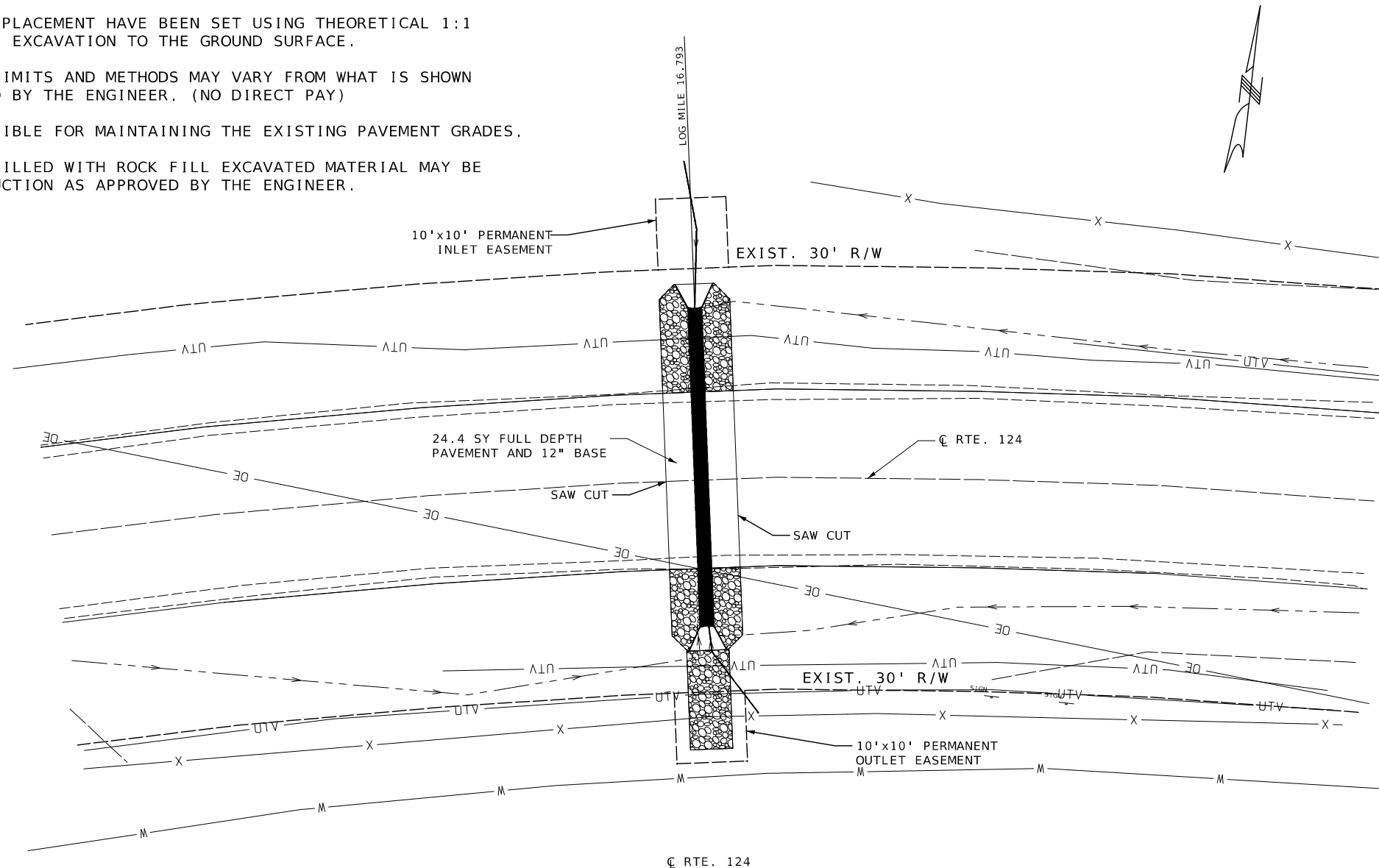
JEFFERSON CITY, MO 65102

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

CLASS 3 EXCAVATION IS COMPUTED FOR THE AREA BOUNDED BY VERTICAL PLANES 18" OUTSIDE THE CULVERT, AS PER SECTION 206.5.2 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. ANY OTHER EXCAVATION REQUIRED TO REMOVE THE EXISTING CULVERT AND INSTALL THE NEW CULVERT IS CONSIDERED INCIDENTAL TO THE CULVERT INSTALLATION, NO DIRECT PAY.

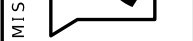
EXCAVATION AND PAVEMENT LIMITS AND METHODS MAY VARY FROM WHAT IS SHOWN
IN THE PLANS. AS APPROVED BY THE ENGINEER. (NO DIRECT PAY)

EXCAVATION SHALL BE BACKFILLED WITH ROCK FILL EXCAVATED MATERIAL MAY BE USED FOR SHOULDER CONSTRUCTION AS APPROVED BY THE ENGINEER.



P3 - NO SKEW
24"X45' GROUP B PIPE
CLASS 3 EXC. = 42 CY
ROCK FILL = 49 CY
2-24" FLARED END SECTIONS
3 CY ROCK LINING FOR
CULVERT OUTLET

CULVERT SHEET
SHEET 3 OF 5



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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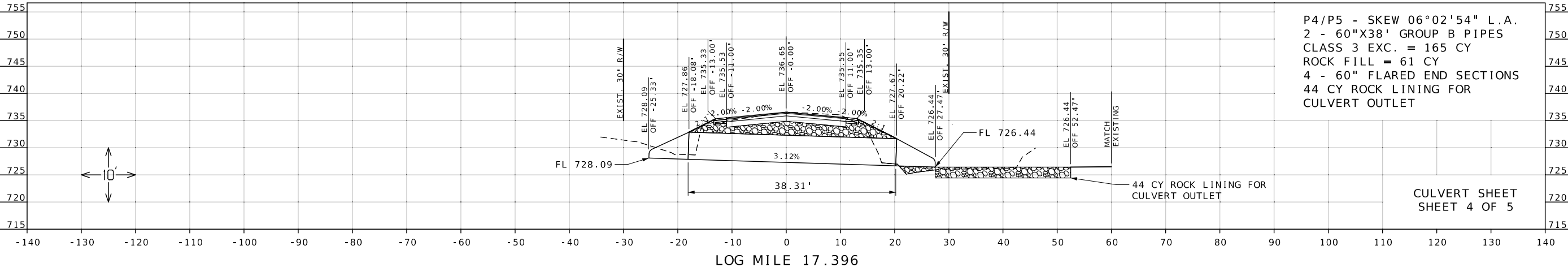
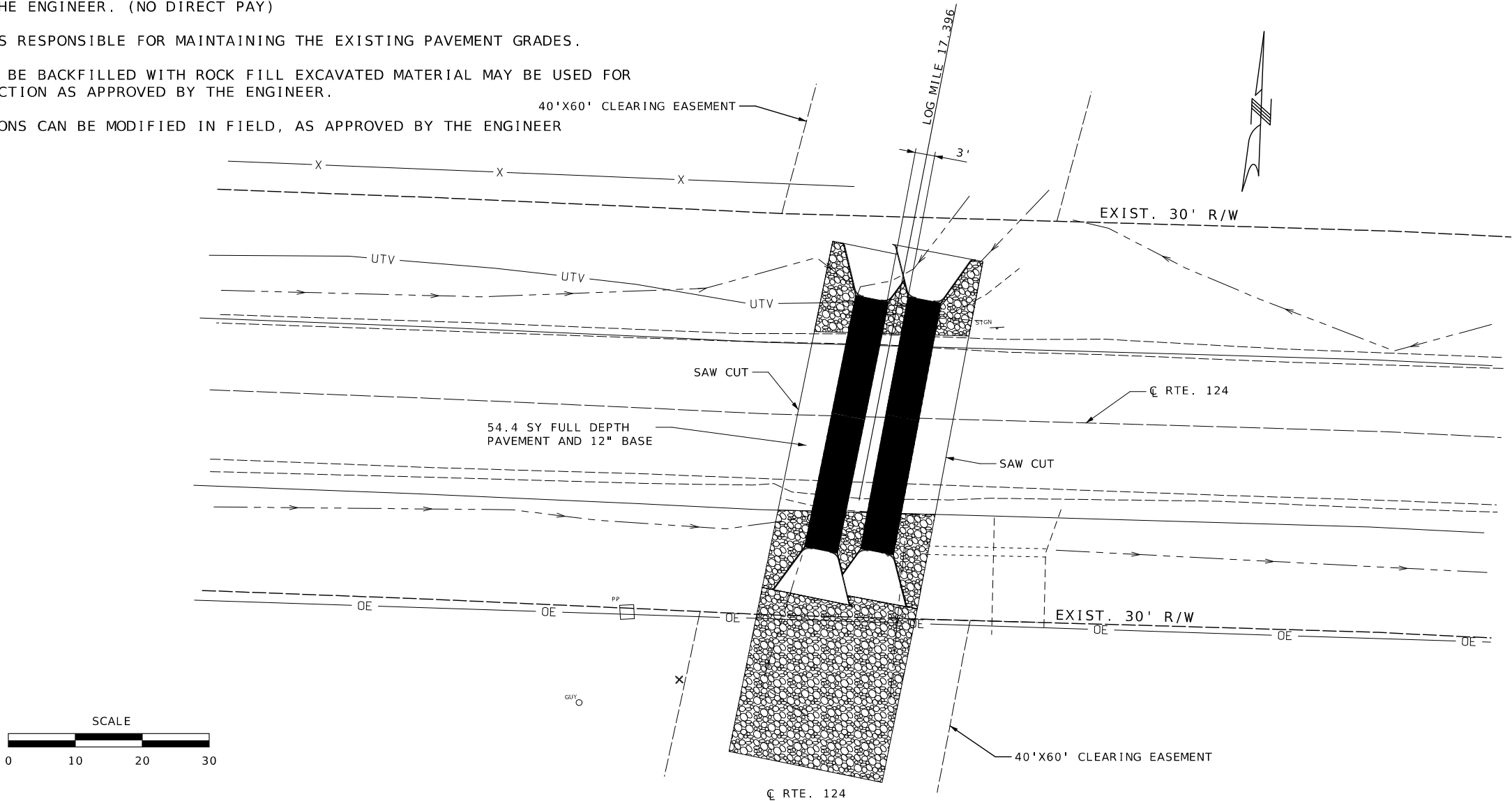
THE LIMITS OF PAVEMENT REPLACEMENT HAVE BEEN SET USING THEORETICAL 1:1 SLOPES FROM THE BOTTOM OF EXCAVATION TO THE GROUND SURFACE.

EXCAVATION AND PAVEMENT LIMITS AND METHODS MAY VARY FROM WHAT IS SHOWN IN THE PLANS. AS APPROVED BY THE ENGINEER. (NO DIRECT PAY)

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING PAVEMENT GRADES.

EXCAVATION SHALL BE BACKFILLED WITH ROCK FILL EXCAVATED MATERIAL MAY BE USED FOR SHOULDER CONSTRUCTION AS APPROVED BY THE ENGINEER.

FLARED END SECTIONS CAN BE MODIFIED IN FIELD, AS APPROVED BY THE ENGINEER



DATE PREPARED
8/12/2025

ROUTE
124

STATE
MO

DISTRICT
CD

SHEET NO.
23

COUNTY
BOONE/HOWARD

JOB NO.
JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





DATE PREPARED
8/12/2025

ROUTE 124 STATE MO

DISTRICT CD SHEET NO. 24

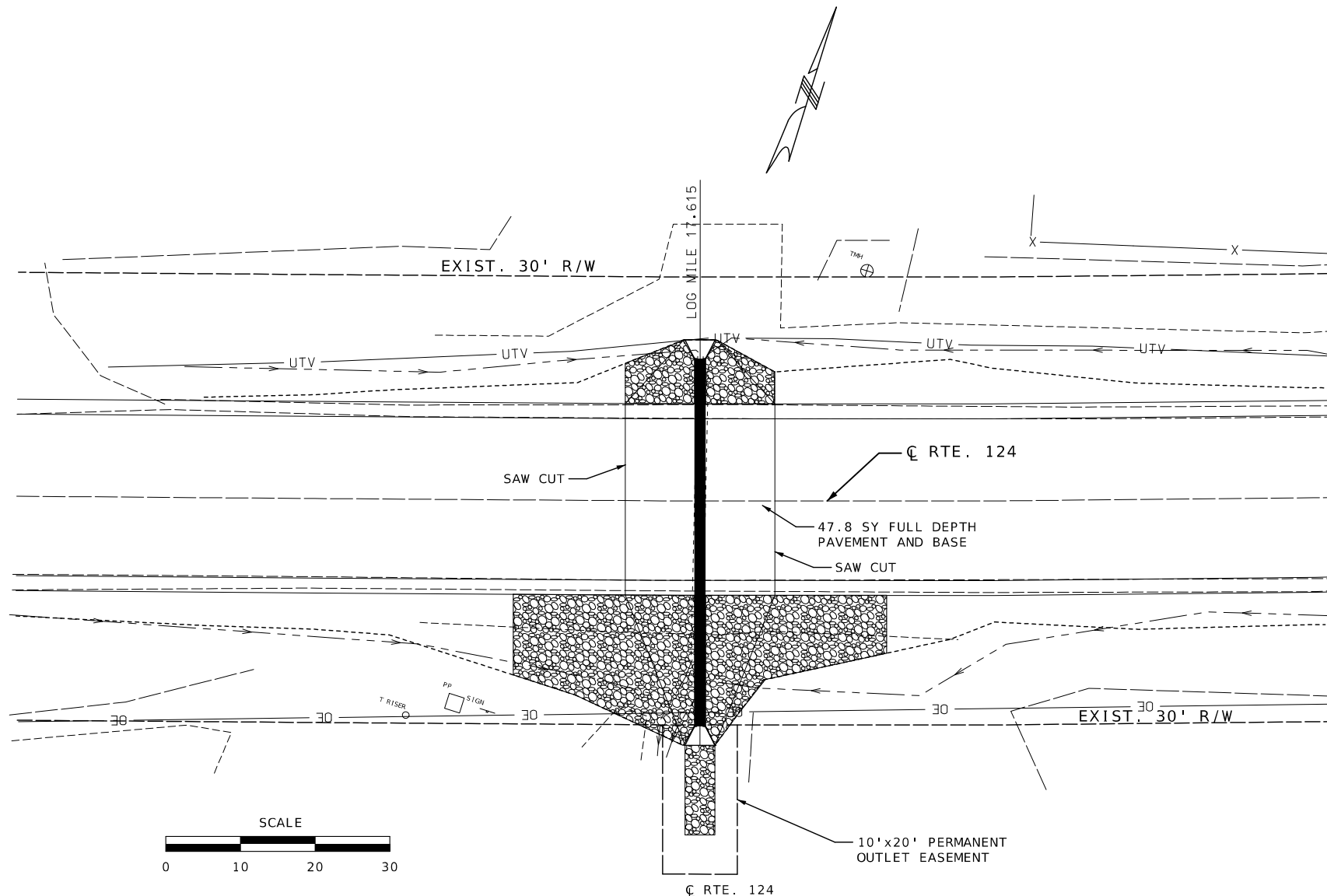
COUNTY BOONE/HOWARD

JOB NO. JCD0195

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



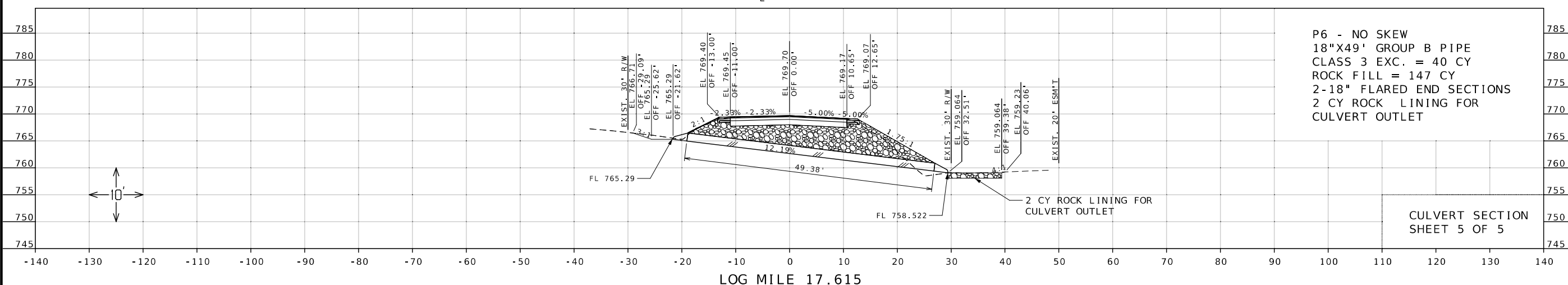
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P6 - NO SKEW
18"X49' GROUP B PIPE
CLASS 3 EXC. = 40 CY
ROCK FILL = 147 CY
2-18" FLARED END SECTIONS
2 CY ROCK LINING FOR
CULVERT OUTLET

CULVERT SECTION
SHEET 5 OF 5