

FUNCTIONAL CLASSIFICATION- INTERSTATE

REMOVAL OF IMPROVEMENTS						
SHEET NO.	STATION	STATION	LOCATION	QUANTITY	UNIT	REMARKS
4	235+55.66	2237+29.05	I-435, RT	175	LF	GUARDRAIL
4	235+44.79		I-435, RT	12	LF	24" RCP & FES
4	236+22.33	237+45.48	I-435, LT	125	LF	GUARDRAIL
4	236+51.55		I-435, MED	1	EA	PARTIAL REMOVAL OF EXISTING SIGN TRUSS FOOTING (18" BELOW EXISTING GROUND)
4	236+57.71		I-435, LT	1	EA	PARTIAL REMOVAL OF EXISTING SIGN TRUSS FOOTING (18" BELOW EXISTING GROUND)
4	237+20.17	237+68.81	I-435, LT	50	LF	GUARDRAIL
4	237+63.40		I-435, RT	10	LF	24" RCP & FES
TOTAL				1	LUMP SUM	

LINEAR GRADING				
SHEET NO.	STATION	STATION	LOCATION	LINEAR GRADING CLASS 2
				STA
4	235+16.72	238+25.37	I-435, MED	3.1
4	237+20.17	238+27.44	I-435, LT	1.1
TOTAL				* 4.2

* APPROXIMATELY 373 CY OF FILL MATERIAL
WILL BE REQUIRED FOR GUARDRAIL GRADING

SEEDING - COOL SEASON MIXTURES
0.3 ACRE

MULCHING
0.3 ACRE

MOBILIZATION
1 LUMP SUM

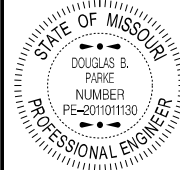
CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM

CULVERT CLEANOUT					
SHEET NO.	STATION	LOCATION	DESCRIPTION	LENGTH	QUANTITY
				LF	EA
4	235+54	I-435, RT	EXIST 24" RCP	202	1
TOTAL					1

PIPE COLLARS					
SHEET NO.	STATION	LOCATION	OFFSET	SIDE	PIPE COLLAR (TYPE A)
					EA
4	235+54.01	I-435	12.9'	RT	1
4	237+57.00	I-435	12.9'	RT	1
TOTAL					2

				GROUP C PIPE		
SHEET NO.	PIPE NUMBER	STATION	LOCATION	24 IN.	24 IN. SAFETY SLOPE END SECTION	CLASS 3 EXC.
				LF	EA	LF
4	A01	235+56.01	I-435	27	1	18
4	A02	237+54.87	I-435	60	1	33
TOTAL				87	2	51

SUMMARY OF QUANTITIES
SHEET 1 OF 3



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 3/17/2025	
ROUTE 1-435	STATE MO
DISTRICT KC	SHEET NO. 3
COUNTY JACKSON	
JOB NO. JKU0444	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

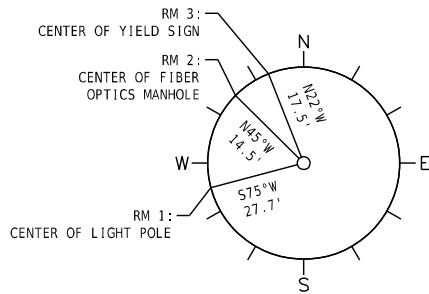
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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



2400 PERSHING ROAD, SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600
FAX: (816) 328-8601
MO STATE CERT. OF AUTHORITY # 273, ENGINEERING



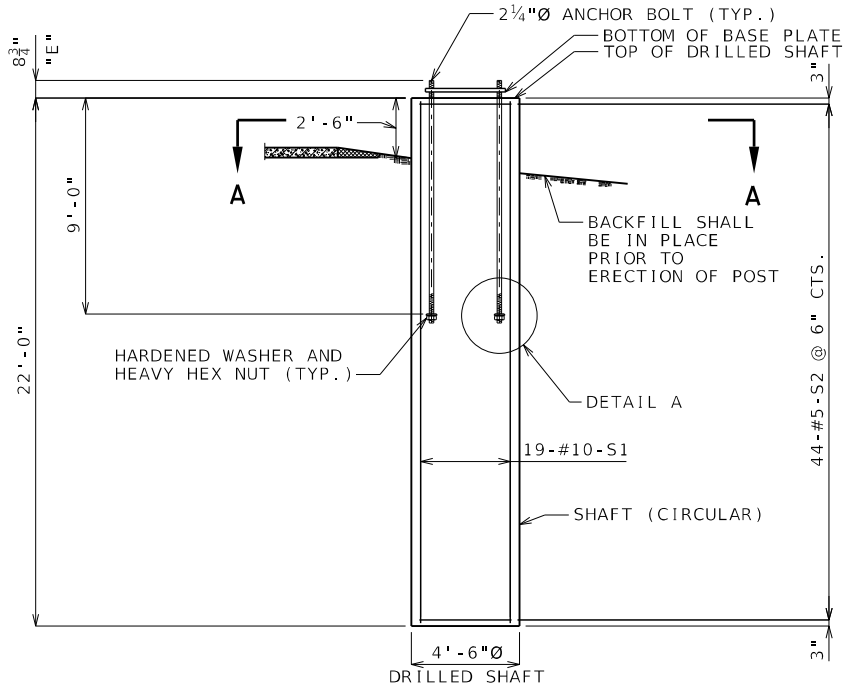
A diagram of a circular structure, likely a well or manhole, with cardinal directions (N, S, E, W) marked. The center is labeled "RM 1: CENTER OF EXIT 60° SIGN". The distance from the center to the north edge is labeled "70.2'". The distance from the center to the east edge is labeled "8.3'". The east edge is labeled "RM 2: WEST EDGE OF ASPHALT PAVEMENT".

REFERENCE POINTS
SHEET 1 OF 1

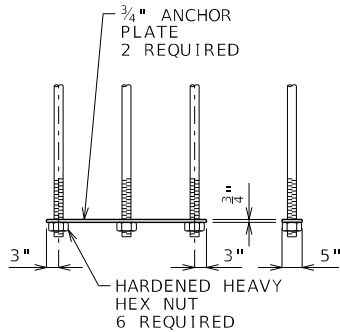
PROJECT COORDINATE INFORMATION		
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)	
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010.00	
VERTICAL DATUM	NAVD 88	
GEOID MODEL	GEOID18	
ELEVATIONS DETERMINED BY	GNSS	
PROJECT PROJECTION FACTOR		1.000090628
REFERENCE CONTROL INFORMATION		
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983	
CONTROL STATION	MISSOURI CORS	
DESIGNATION	MODOT INDEPENDENC CORS ARP	
CORS_ID	MOID	
PID	DN5830	
LATITUDE	39° 07' 17.57498" (N)	
LONGITUDE	94° 23' 18.01946" (W)	
NORTHING (M)	327948.453	
EASTING (M)	859655.675	
ZONE	WEST	
PROJECT AVERAGE GRID FACTOR		0.99990938
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 #200 N 1065490.53 X 0.99990938 = N 1065393.98 E 2792688.39 X 0.99990938 = E 2792435.32		
LINEAR UNIT CONVERSION		
1 METER = 3.280833333 US SURVEY FEET (USFT)		

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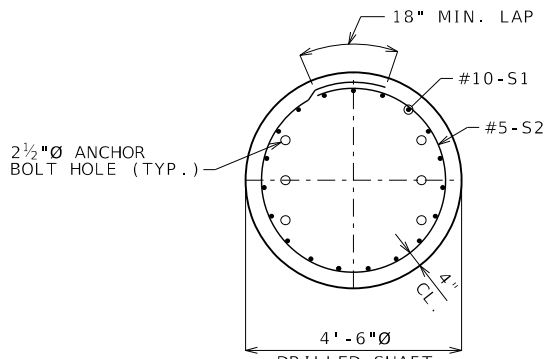
TRANSYSTEMS
2400 PERSHING ROAD, SUITE 400
KANSAS CITY, MO 64108
PHONE: (816)329-8600
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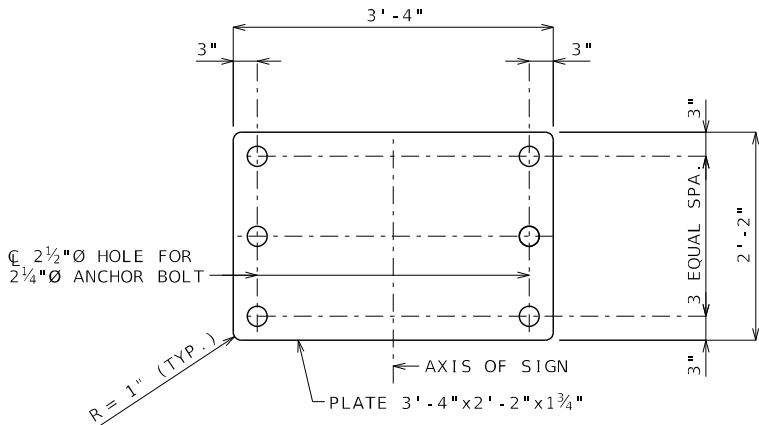
ELEVATION



DETAIL A



SECTION A-A



TYPICAL BASE PLATE

FOR MORE BASE PLATE DETAILS SEE STD 903.12AA

DRILLED SHAFT													
POST TYPE	PIPE COLUMN		"E"	SPLIT	BASE PLATE SIZE**	ANCHOR BOLT		SHAFT REINFORCEMENT				REBAR TOTAL (LBS.)	CONCRETE (CU. YDS.)
	O.D.	WEIGHT (LBS.)				NO. DIA.		LONGITUDINAL S1		SHEAR-S2			
								QUANTITY	BARS	BARS	SPACING		
III	18"	93.45	8¾"	11½"	3'-4" x 2'-2" x 1¾"	6	2¼"	19	#10	#5	6"	2388	12.9

** BASE PLATES, LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.

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

GENERAL NOTES :

DESIGN SPECIFICATIONS:
AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS FIRST ADDITION 2015 WITH 2020 INTERIMS.
ASCE 7-22
AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 9TH EDITION, 2020

DESIGN UNIT STRESSES:
CLASS B-2 CONCRETE (DRILLED SHAFT) $f'c = 4$ KSI
REINFORCING STEEL (GRADE 60) $Fy = 60$ KSI

WHEN ROCK IS ENCOUNTERED AT A DEPTH NOT EXCEEDING 11'-0", THE DIMENSION 22'-0" MAY BE ADJUSTED TO A MINIMUM OF 13'-6", SUBJECT TO APPROVAL BY THE ENGINEER.

CONTACT THE ENGINEER IF WATER TABLE IS ENCOUNTERED DURING EXCAVATION.

ANCHOR BOLTS:
ANCHOR BOLTS CAST INTO CONCRETE SHALL CONFORM TO ASTM F1554 GRADE 55 UNLESS NOTED OTHERWISE.

ANCHOR BOLTS SHALL HAVE ROLLED THREADS IN ACCORDANCE WITH MoDOT SPECIFICATIONS.

BURR THREADS ON ALL ANCHOR BOLTS.

MISCELLANEOUS:
CLEAR COVER TO REINFORCEMENT IN ACCORDANCE WITH MoDOT SPECIFICATIONS, UNLESS NOTED OTHERWISE.

WELDING REINFORCEMENT IS PROHIBITED.

FIELD WELDING ANCHOR BOLTS IS PROHIBITED.

ALL STRUCTURES SHALL BE GROUNDED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/21/2025
ROUTE
I-435
STATE
MO
DISTRICT
KC
SHEET NO.
7

COUNTY
JACKSON
JOB NO.
JKU0444
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

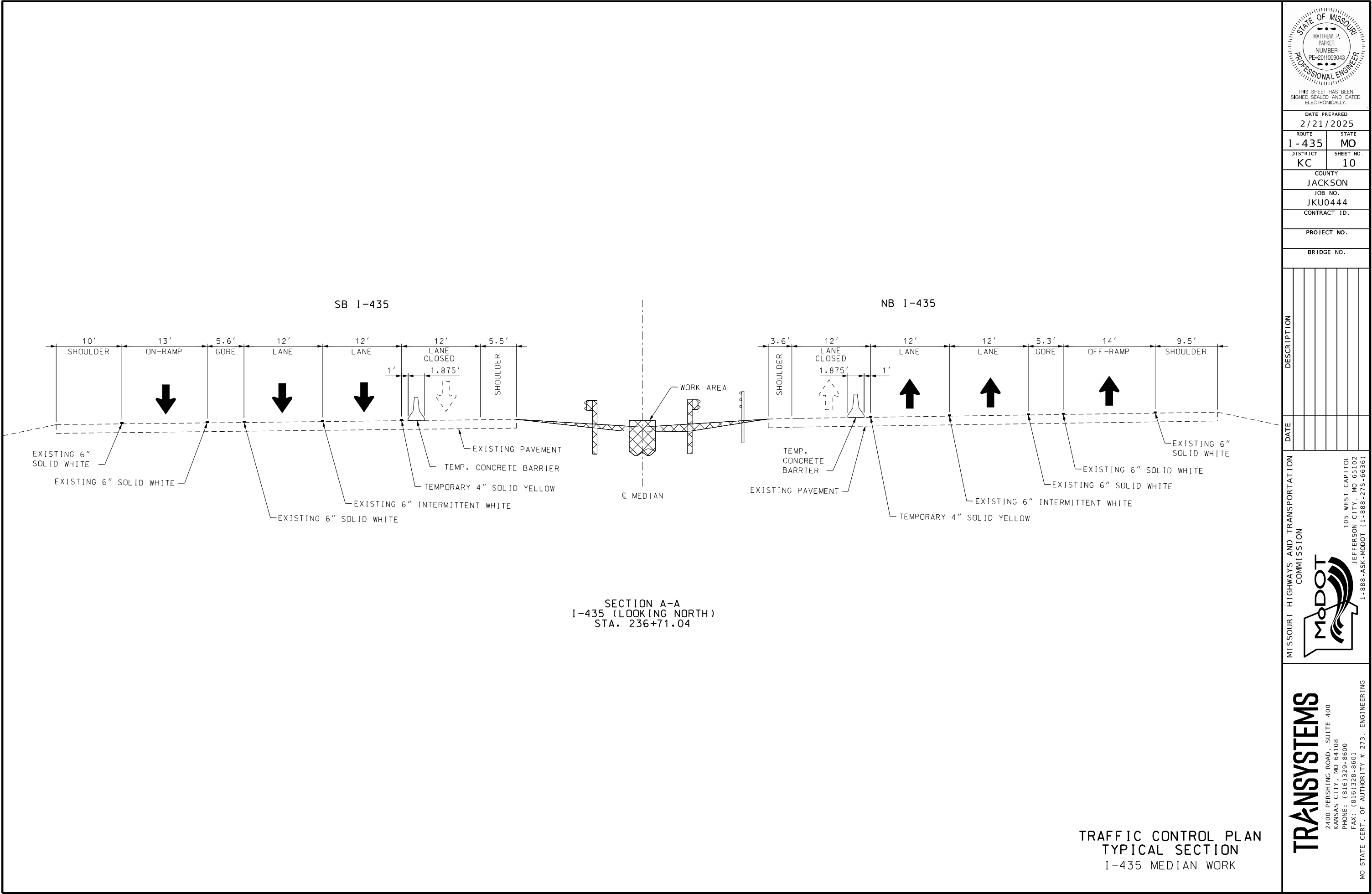
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

TRANSYSTEMS

2400 PERSHING ROAD, SUITE 400
KANSAS CITY, MO 64108
PHONE: (816)329-8600
FAX: (816)328-8601

MO STATE CERT. OF AUTHORITY # 273, ENGINEERING

SPECIAL SHEET
DRILLED SHAFT DETAILS
& GENERAL NOTES



THIS SHEET HAS BEEN
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DATE PREPARED
2/21/2025

ROUTE I-435	STATE MO
DISTRICT KC	SHEET NO. 10

COUNTY
JACKSON

JOB NO.
JKU0444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

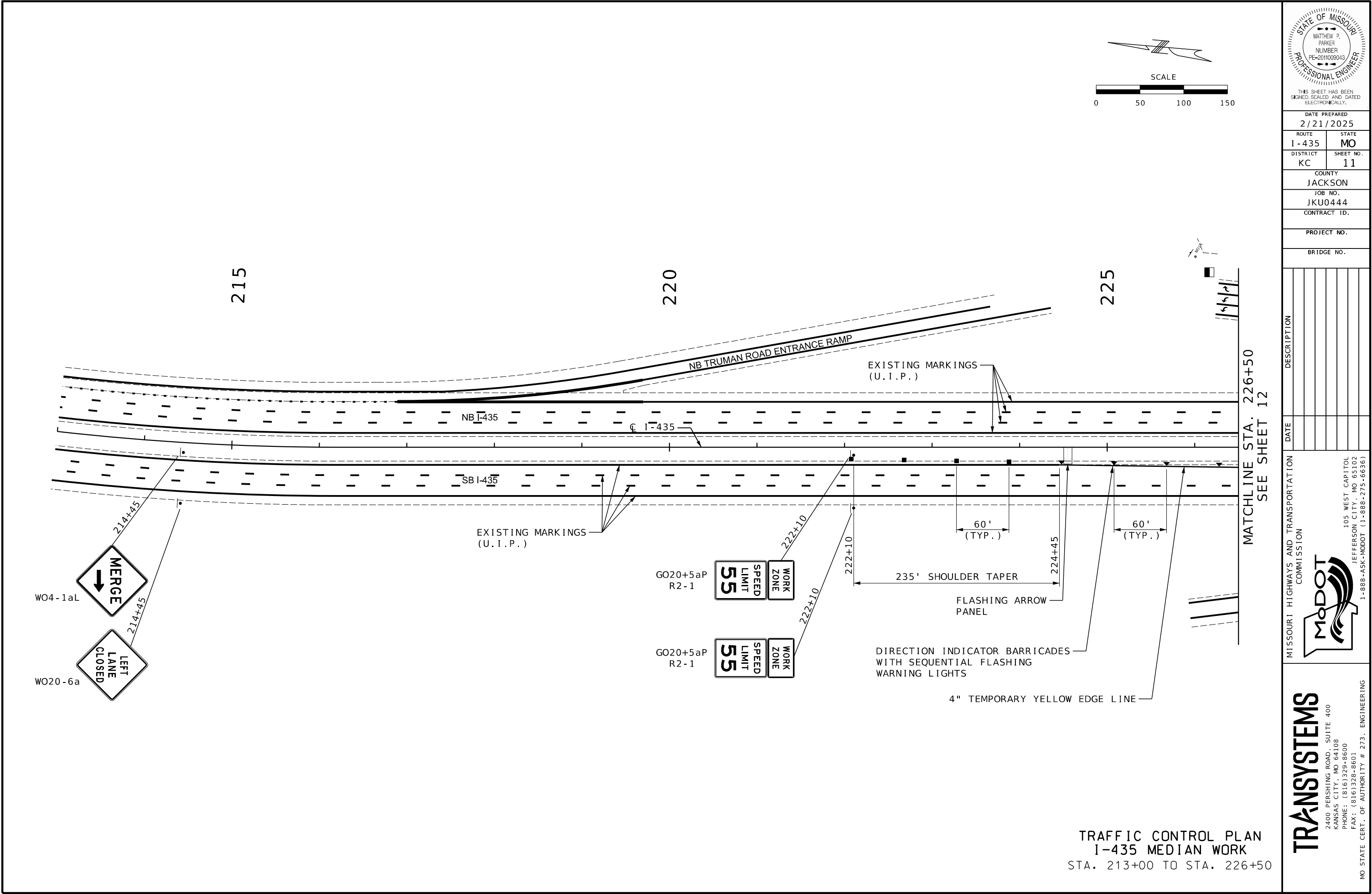
MoDOT

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

TRANSYSTEMS

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KANSAS CITY, MO 64108
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MO STATE CERT. OF AUTHORITY # 273, ENGINEERING

TRAFFIC CONTROL PLAN
TYPICAL SECTION
I-435 MEDIAN WORK



TRAFFIC CONTROL PLAN
I-435 MEDIAN WORK
STA. 213+00 TO STA. 226+50

STATE OF MISSOURI

MATTHEW P. PARKER

NUMBER

PE-2011008043

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
2/21/2025

ROUTE
1-435

STATE
MO

DISTRICT
KC

SHEET NO.
11

COUNTY
JACKSON

JOB NO.
JKU0444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

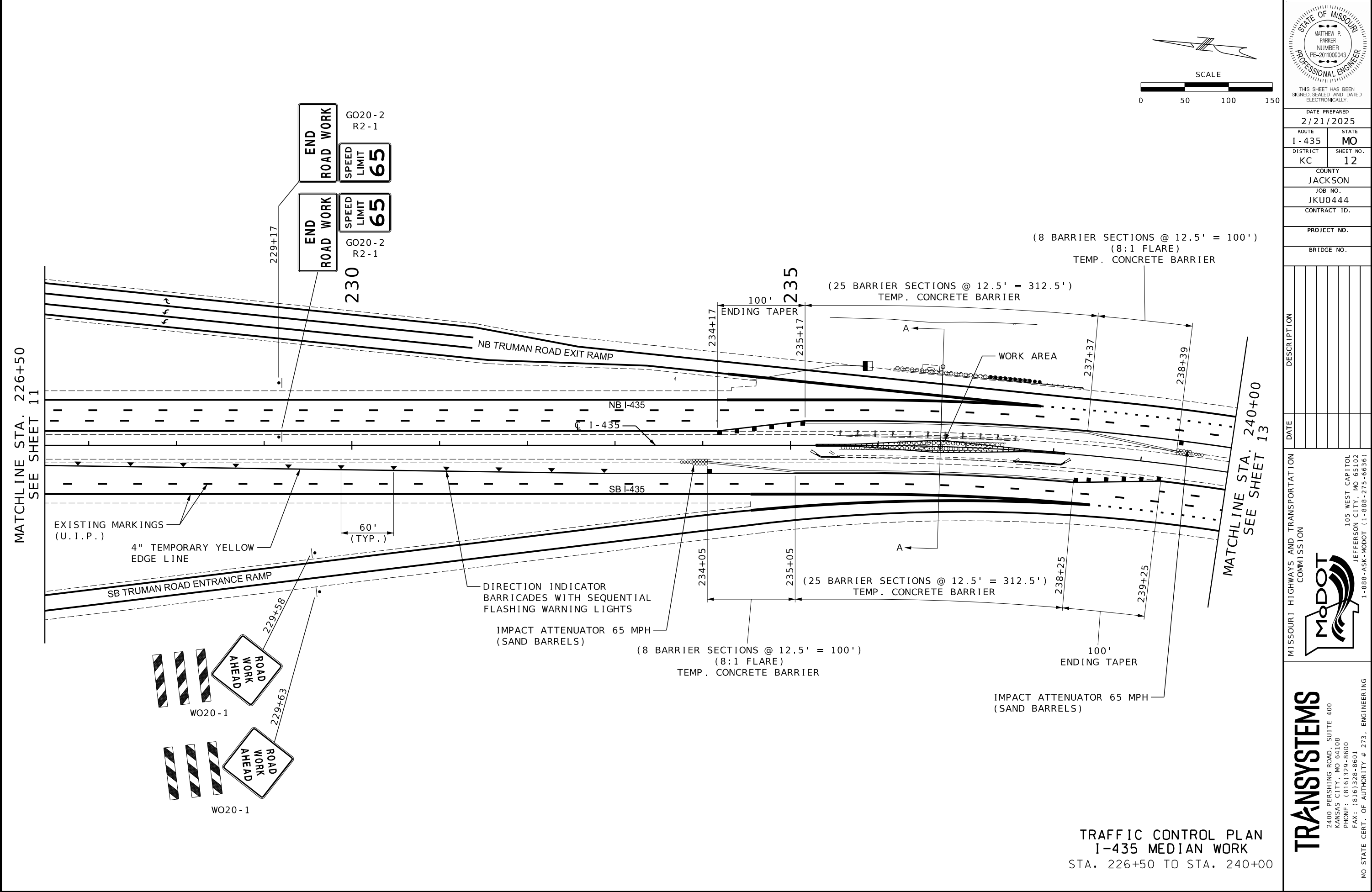
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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KANSAS CITY, MO 64108
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MO STATE CERT. OF AUTHORITY # 273, ENGINEERING

pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2024/KC101/101240048/Road/Task2/Plan Sheets/011_TC_JKU0444_I435_I50_004.dgn 1:13:16 PM 2/21/2025



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SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 2/21/2025	
ROUTE 1-435	STATE MO
DISTRICT KC	SHEET NO. 12
COUNTY JACKSON	
JOB NO. JKU0444	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

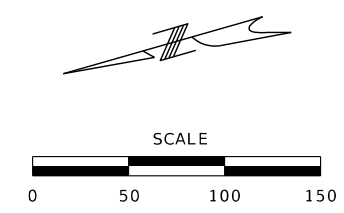
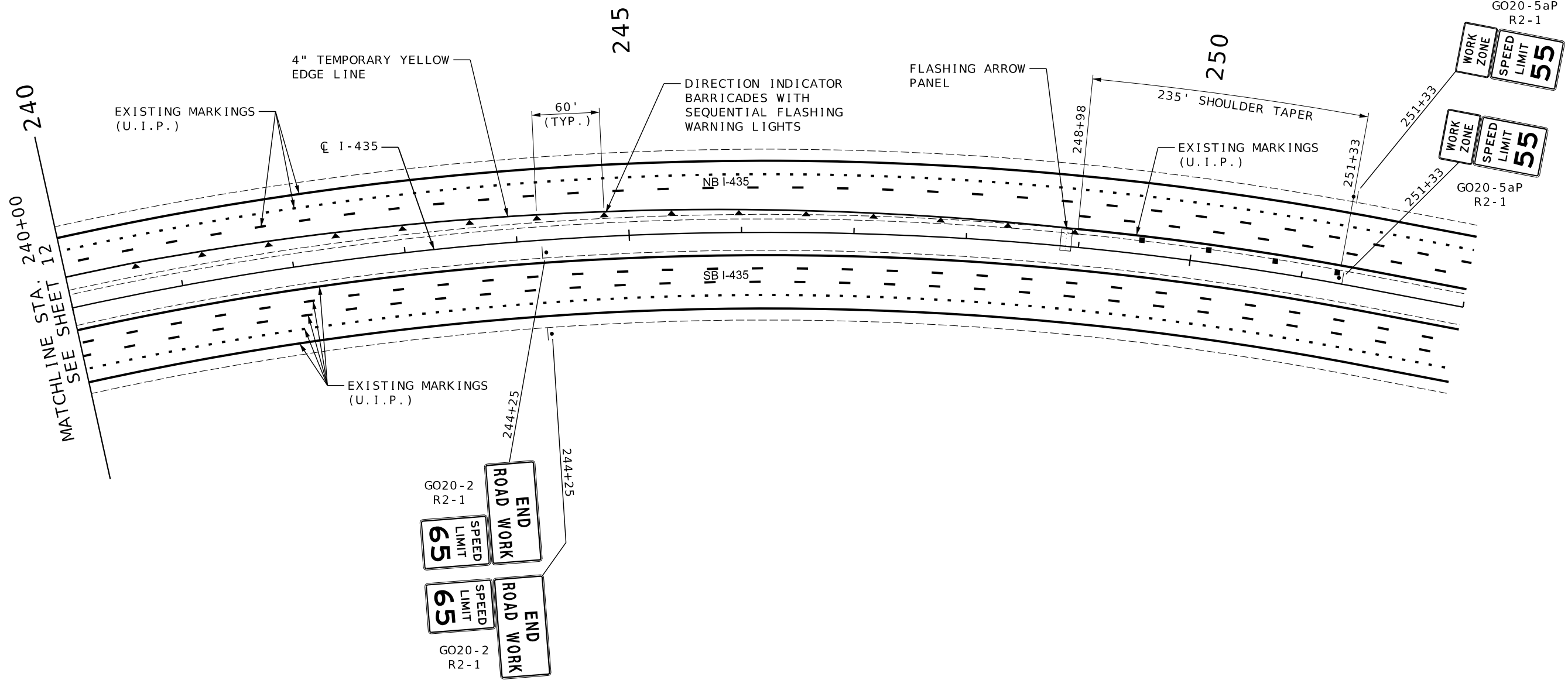
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

TRANSYSTEMS

2400 PERSHING ROAD, SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600
FAX: (816) 328-8601
MO STATE CERT. OF AUTHORITY # 273, ENGINEERING



STATE OF MISSOURI

MATTHEW P. PARKER

NUMBER PE-2011008043

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/21/2025	
ROUTE 1-435	STATE MO
DISTRICT KC	SHEET NO. 13
COUNTY JACKSON	
JOB NO. JKU0444	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



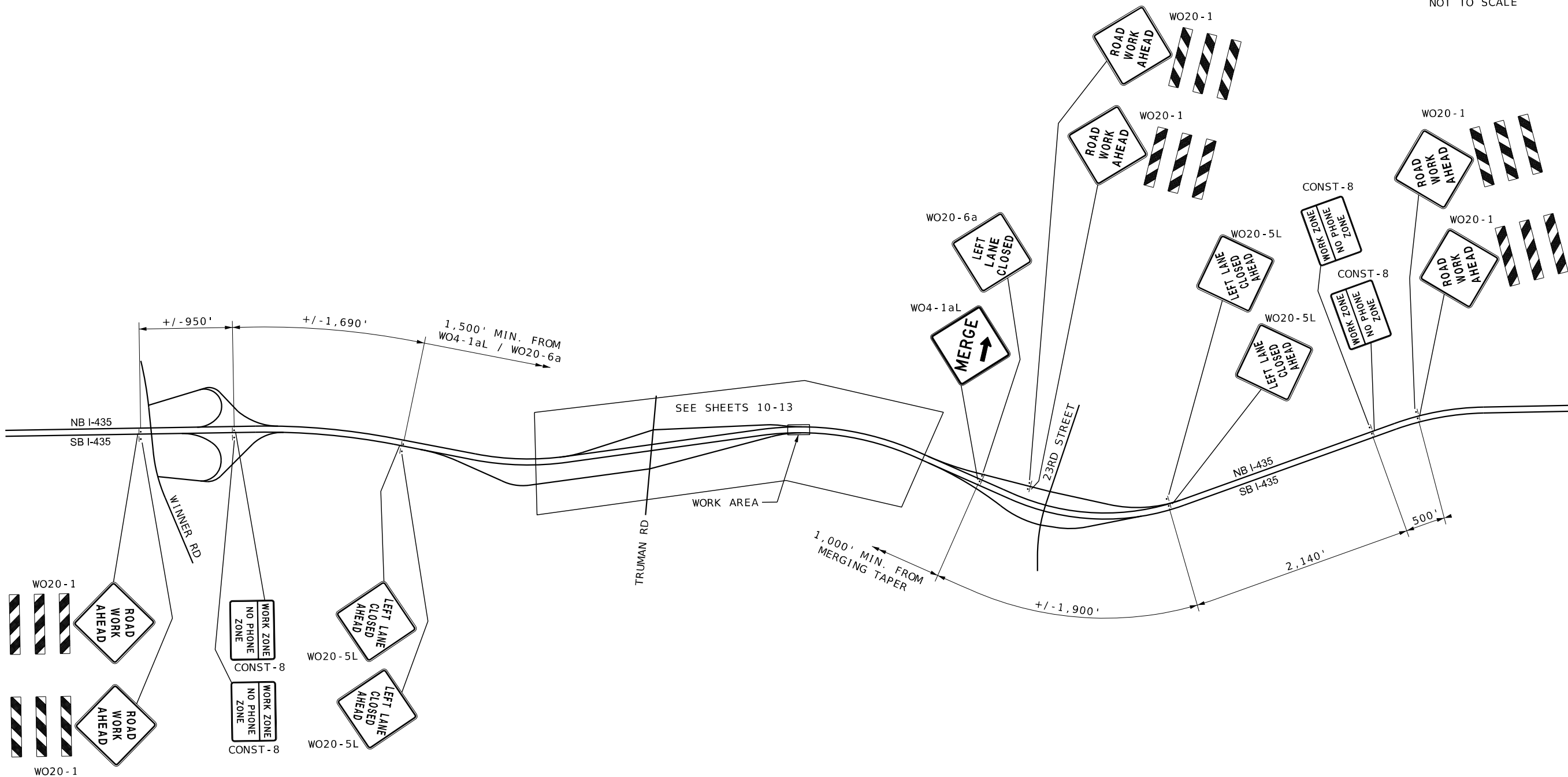
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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2400 PERSHING ROAD, SUITE 400
KANSAS CITY, MO 64108
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FAX: (816) 328-8601

MO STATE CERT. OF AUTHORITY # 273, ENGINEERING

TRAFFIC CONTROL PLAN
I-435 MEDIAN WORK
STA. 240+00 TO STA. 252+00



TRAFFIC CONTROL PLAN
I-435 MEDIAN WORK
ADVANCED SIGNING



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 2/21/2025	
ROUTE 1-435	STATE MO
DISTRICT KC	SHEET NO. 14
COUNTY JACKSON	
JOB NO. JKU0444	
CONTRACT ID.	

PROJECT NO.

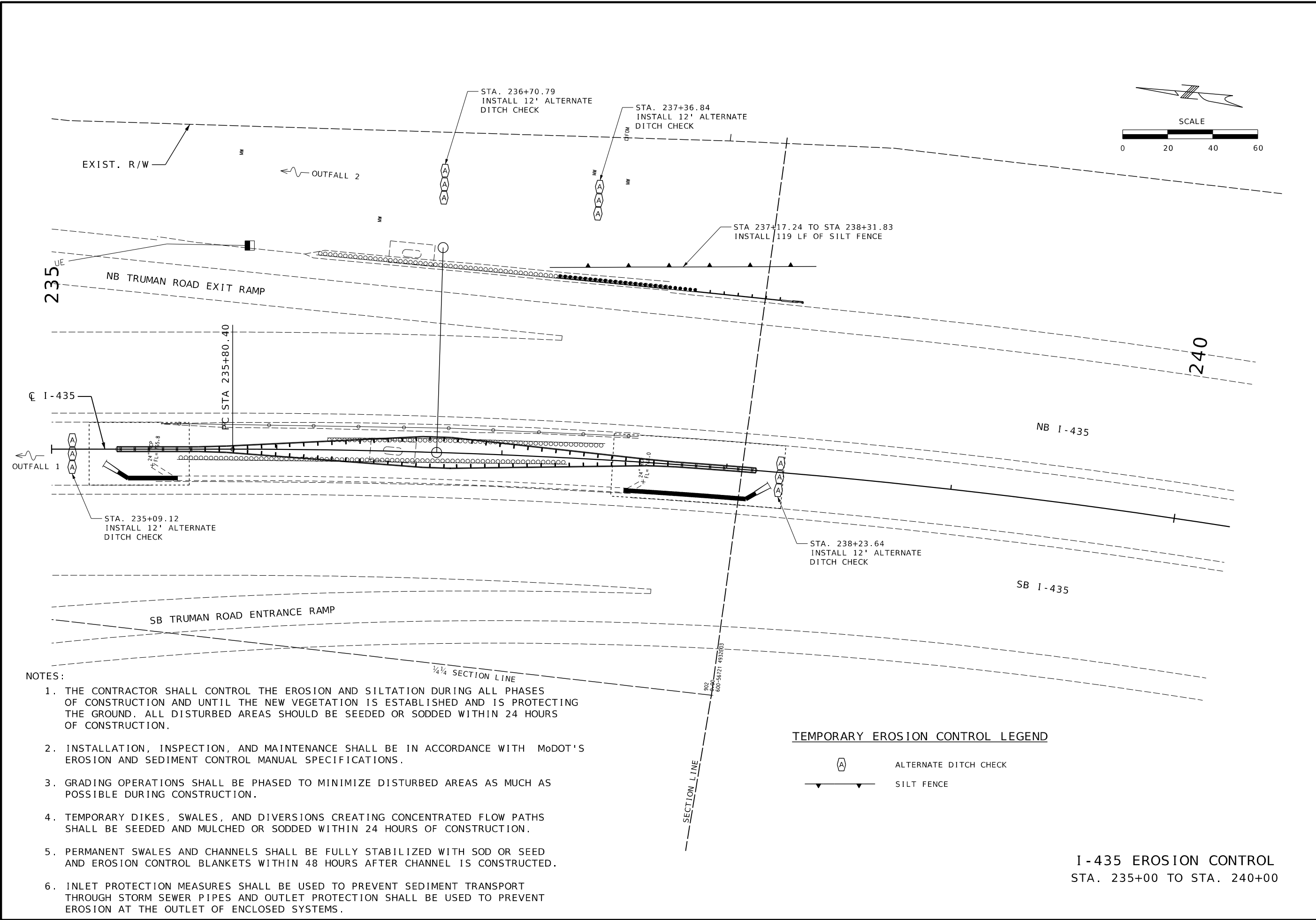
BRIDGE NO.

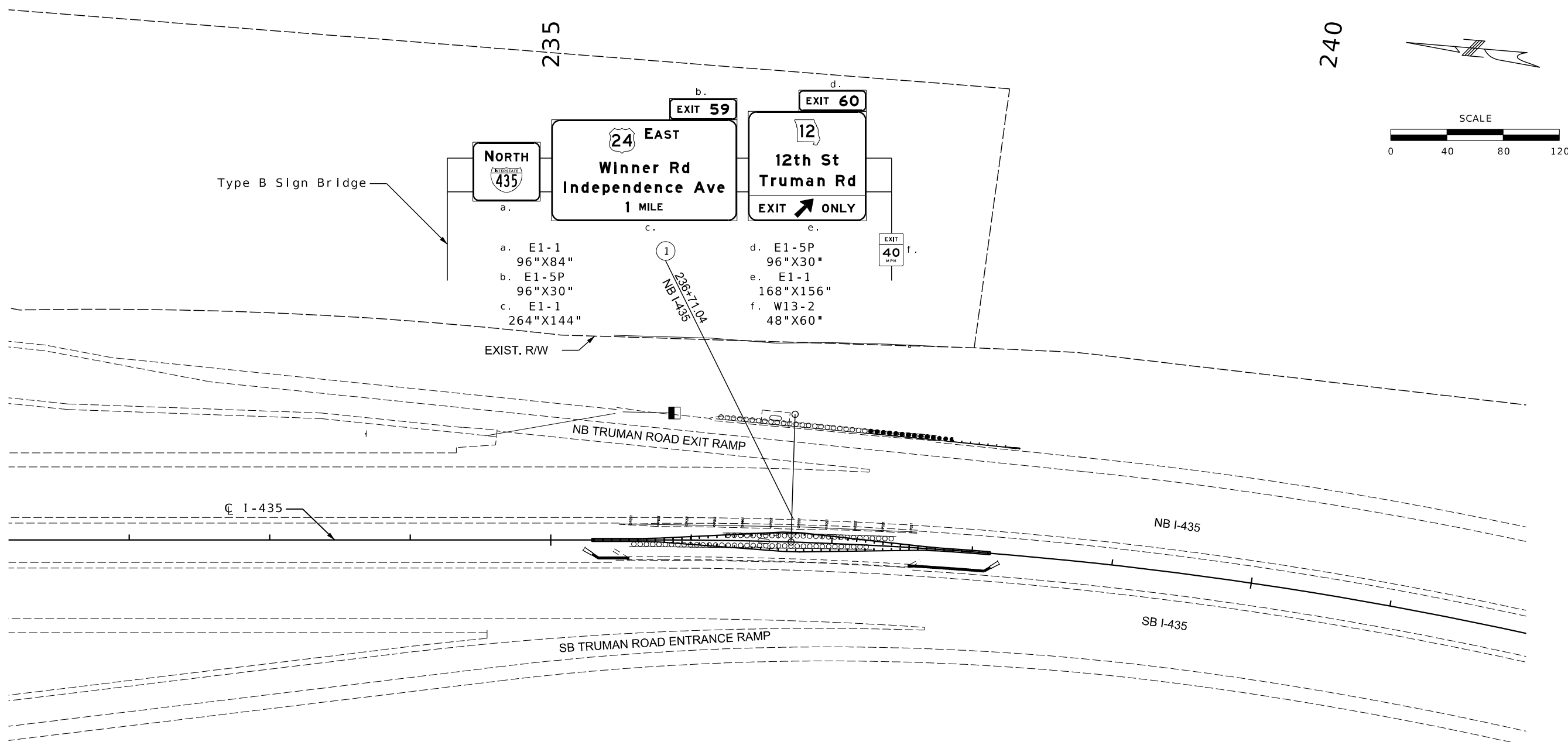
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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2400 PERSHING ROAD, SUITE 400
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FAX: (816) 328-8601
MO STATE CERT. OF AUTHORITY # 273, ENGINEERING





I-435 SIGNING PLAN
STA. 231+14.12 TO STA. 241+98.91



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ELECTRONICALLY.

DATE PREPARED 2/21/2025	
ROUTE 1-435	STATE MO
DISTRICT KC	SHEET NO. 16
COUNTY JACKSON	
JOB NO. JKU0444	
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)

TRANSYSTEMS

2400 PERSHING ROAD, SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600
FAX: (816) 328-8601

MO STATE CERT. OF AUTHORITY # 273, ENGINEERING

SIGNS					CONCRETE FOOTINGS BOLT DOWN		STRUCTURAL STEEL POSTS*					PIPE POSTS*					BACKING BARS**				U-CHANNEL POST		PERFORATED SQUARE STEEL TUBE												EFFECTIVE: 07-01-2024		REMARKS AND OTHER REQUIRED ITEMS	
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																							2-INCH POST						2.5-INCH POST						BREAK-AWAY			
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031020 CY	POST DES NO.	POST NO. 1 LF	POST NO. 2 LF	POST NO. 3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE SIZE IN	POST NO. 1 LF	POST NO. 2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	2" X 3/8" BARS AT 2.55 LBS/FT				ITEM NO. 9031250A LF	POST NO. 1 LF	POST NO. 2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS			POST NO. 1 LF	POST NO. 2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT)		ANCHORS		ASSEMBLY ITEM NO. 9031241		
																			NO.	LGTH	TOTAL	TOTAL				EACH	EACH	EACH				EACH	EACH	EACH				
1.	96"X84"	236+71		NB I-435	14	25.8																														OVERHEAD SIGN TRUSS		
	96"X30"				14																																	
	264"X144"				14																																	
	96"X30"				14																																	
	168"X156"				14																																	
	48"X60"				14																																	
											</																											

DATE PREPARED
2/21/2025

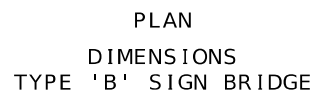
COUNTY	JACKSON
JOB NO.	JKU0444
CONTRACT ID.	

BRIDGE NO.



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

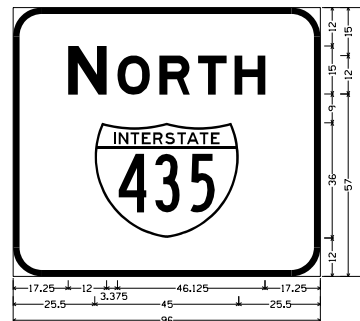
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* MINIMUM = 6'-0" WHEN ALUMINUM IS USED.

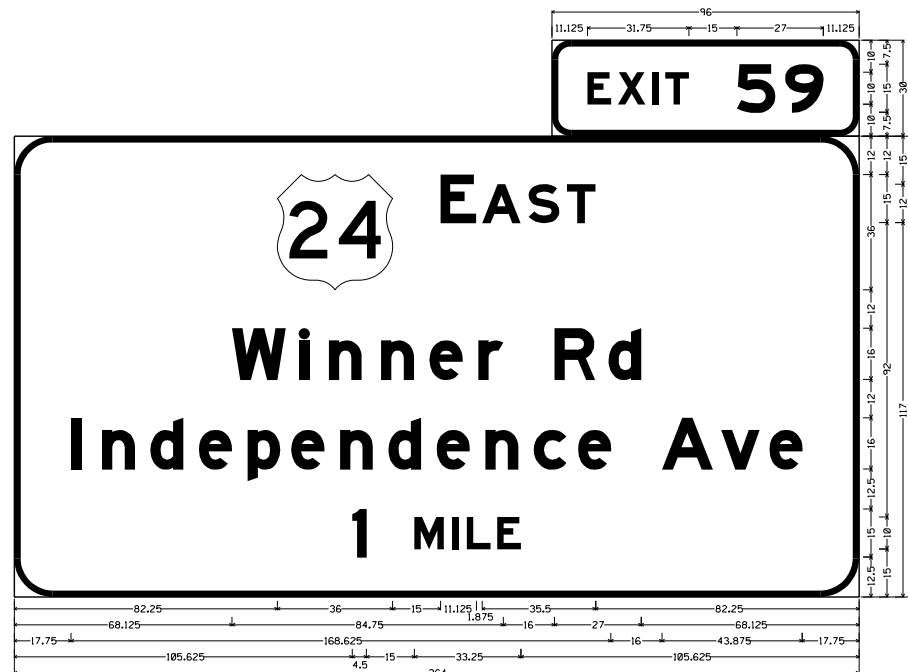
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PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.



E1-1 ST-STRUCTURAL:
9.000* Radius, 2.000* Border, White on Green;
NORTH, E Mod; Interstate 435 18.000* B;
Table of letter and object lefts

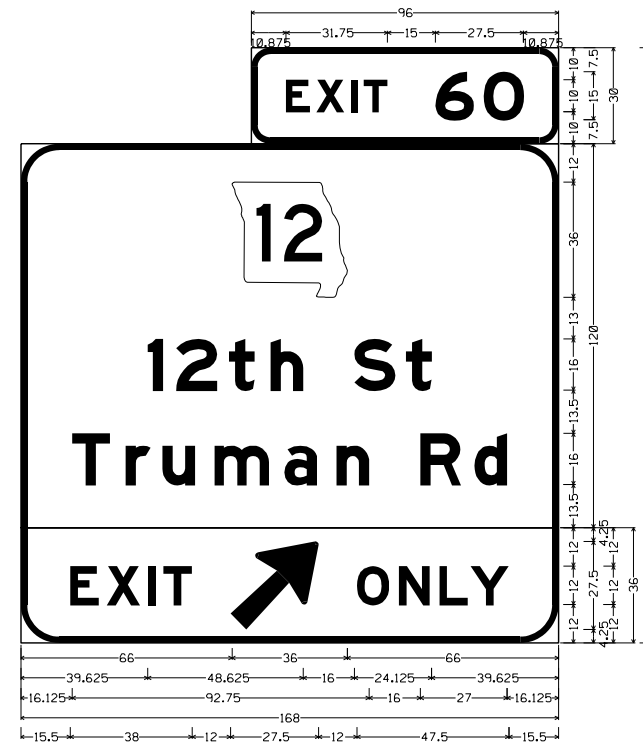
N	O	R	T	H
17.25	32.62	45.75	57.75	69.25
				
25.50				



E1-5P ST-STRUCTURAL;
6.000' Radius, 2.000' Border, White on Green;
EXIT 59, E Mod;

E1-1 ST-STRUCTURAL:
12.000' Radius, 2.000' Border, White on Green;
'EAST', E Mod; 'Winner Rd', E Mod; 'Independence Ave', E Mod; 'I', E Mod; 'MILE', E Mod;
Table of letter and object lefts

E	X	I	T	S	9
11,125	20,62	31,37	35,37	57,87	72,87
Q	A	S	T		
82,25	133,25	146,25	168,75	172,75	
W	I	n	r	R	d
68,125	89,25	98,37	114,75	129,75	145,00
				168,87	185,75
I	75	40	42,62	57,75	72,87
				86,62	101,87
				116,87	132,00
				147,25	162,37
				176,25	192,37
				202,37	221,00
					236,00
105,62	125,125	136,87	141,50	150,87	



E1-5P ST-STRUCTURAL;
6.000* Radius, 2.000* Border, White on Green;
'EXIT', E Mod; '60', E Mod;

E1-1 ST-STRUCTURAL;
12.000' Radius, 2.000' Border, White on Green;
State Highway 12 MI-6a3 18.000' D; '12th St', E Mod; 'Truman Rd', E Mod;

STF-STRUCTURAL FLUORESCENT;
12.000" Radius, 2.000" Border, Black on Yellow;
EXIT, E Mod; Arrow 160 - 35.000" 45³³/₆₄; *ONLY*, E Mod;
Table of letter and object lefts

F	X	I	T	S	O
82.87	92.37	103.125	107.25	129.62	144.62
10					
66.00					
t	2	h	7	S	t
39.62	48.50	65.00	78.00	104.25	120.37
T	r	u	a	R	d
16.125	32.75	44.25	60.62	82.37	98.62
					124.87
					141.750
E	X	I	T	S	O
15.50	26.87	39.75	44.62	65.50	105.00
					118.125
					130.75
					140.50



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DATE PREPARED
2/21/2025

ROUTE	STATE
I - 435	MO

DISTRICT KC	SHEET NO. 20
----------------	-----------------

COUNTY
JACKSON

JOB NO.
JKU0444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

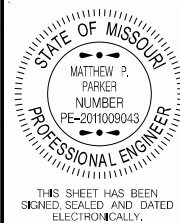
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TRANSYSTEMS
2400 PERSHING ROAD, SUITE 400
ANN ARBOR, MI 48106-1000

FAX: (816)328-8601
MO STATE CERT. OF AUTHORITY # 273, ENGINEERING

SIGN FACE DETAILS
SHEET 1 OF 1



BRIDGE NO.

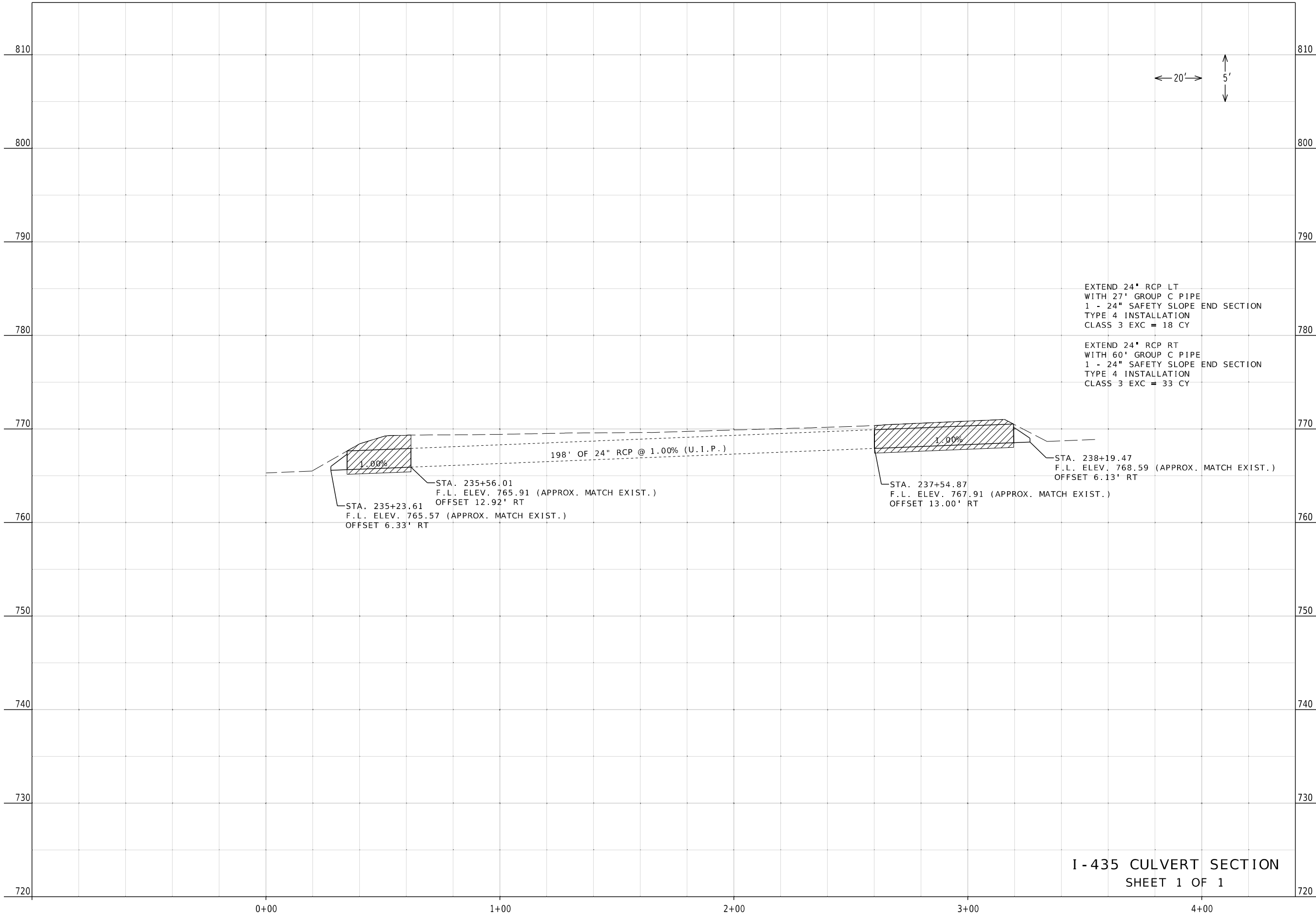
SIGNING SECTION
SHEET 1 OF 1

TRANSYSTEMS
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KANSAS CITY, MO 64108
PHONE: (816) 329-8600
FAX: (816) 328-8601
OFFICE OF AUTHORITY # 273 ENGINEER

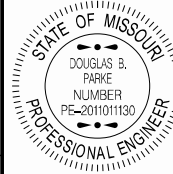


MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
JEFFERSON CITY, MO 65102
1-888-ASK-MOTDOT (1-888-275-6626)



I-435 CULVERT SECTION
SHEET 1 OF 1



THIS SHEET HAS BEEN
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DATE PREPARED
2/21/2025

ROUTE 1-435	STATE MO
DISTRICT KC	SHEET NO. 22

COUNTY
JACKSON

JOB NO.
JKU0444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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JEFFERSON CITY, MO 65102
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