DESIGN DESIGNATION

A.A.D.T. - 2022 = 14128 A.A.D.T. - 2022 = 14128 D.H.V. = 8 % V = 70 M.P.H.

FUNCTIONAL CLASSIFICATION-INTERSTATE

D - N/A

NO RIGHT OF WAY REQUIRED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY



12

R21W | R20W

13

LOCATION OF SALINE COUNTY

15

105th Rd

rMARSHAL JUNCTION

16

SALINE COUNTY FINAL PLANS

A0130

3790007

8

17

3790020

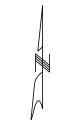
18

9

10

15

A6529



RIDGE PRAIRIE

R20W R19W

SAL INE COUNTY

A0131 11

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEET)	2
QUANTITIES (QU) (4 SHEETS)	3
SPECIAL SHEETS (SS)	4 - 5
TRAFFIC CONTROL SHEETS (TC)	6 - 12

MA NU PE-20 03/06/11/11/11 THANKAM M MO-PE-3	MKAM THEW MBER 14000056 WAL ENGINE MATHEW-CIVIL 2014000066										
1/19/2024											
70	MO										
KC	SHEET NO.										
SA	L I NE										
J 4 I	B NO. 13366										
	RACT ID.										
PRO J	ECT NO.										
BR II	OGE NO.										
CRIPTION											

BEGINNING OF PROJECT LOG MILE 163.242 END OF PROJECT LOG MILE 172.775

BRIDGE A0203 EXCEPTION 171 356 171 496 (~243 FEET) ROUTE J CONCRETE EXCEPTION 165.256-165.476 (~1,160 FEET)



LENGTH OF PROJECT

APPARENT LENGTH 9.501 MILES (50.165.3 FEET) EQUATIONS AND EXCEPTIONS:

NET LENGTH OF PROJECT

48,762.3 FEET

9.24 MILES

CONVENTIONAL SYMBOLS

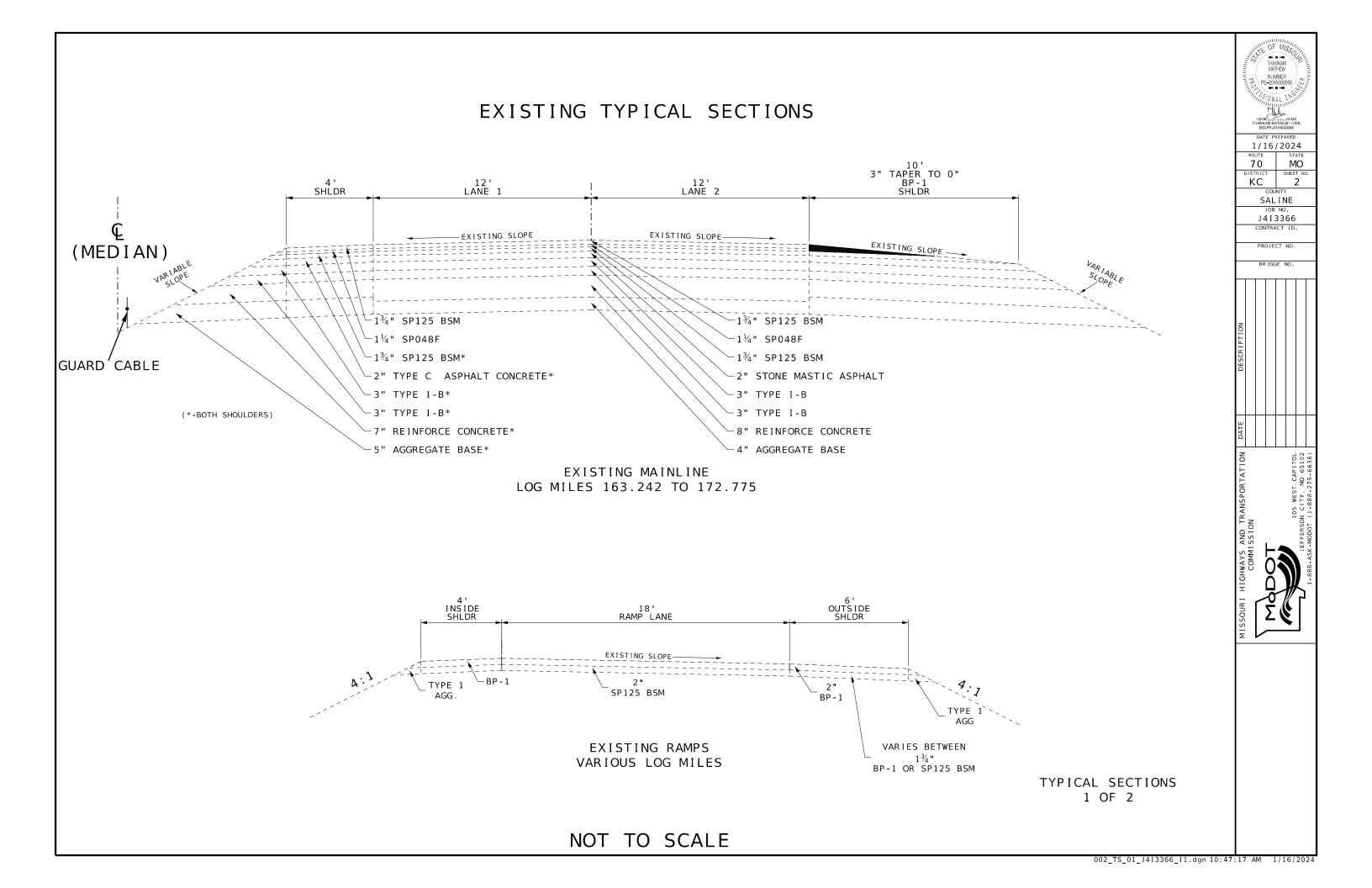
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000	
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FO OTV UTV OT UT OE UE S S - G W SAN	-OTV- -UTV- -OT- -UT- -OE-
MANHOLE	HYD.)
FIRE HYDRANT	w.C]
WATER VALVE	C)
WATER METER)
DROP INLET		
DITCH BLOCK	=	=
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	——————————————————————————————————————	
BENCHMARK	8)

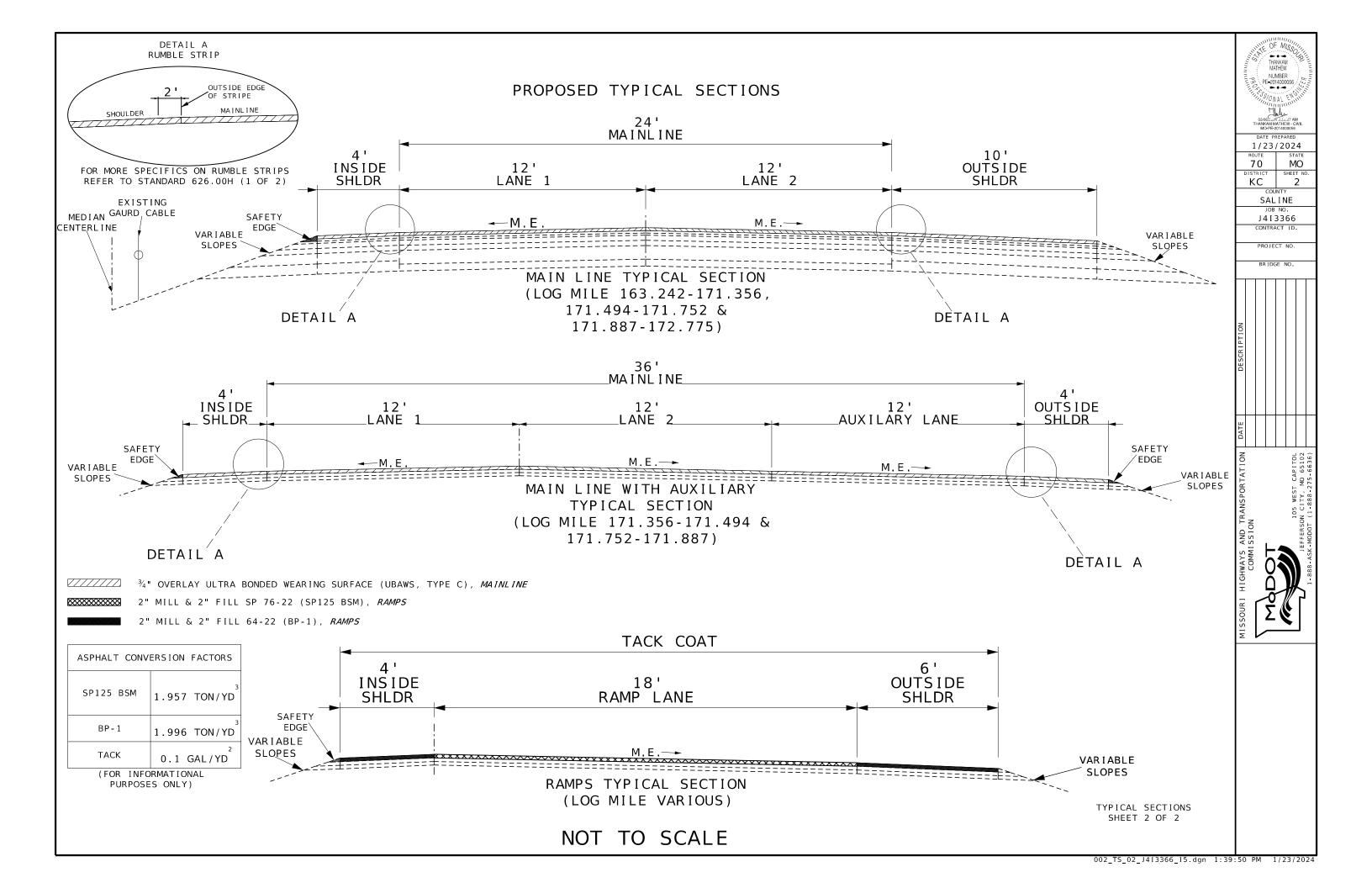
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

163.242 TO 172.775 (9.53 MILES), WESTBOUND I-70 (STARTING AT COOPER COUNTY LINE AND ENDING TO BLACKWATER RIVER, BRIDGE #A0203.)

3/4" ULTRATHIN BONDED ASPAHLT WEARING SURFACE (UBAWS) OVERLAY - MAINLINE AND SHOULDERS 2" MILL & FILL SP125 BSM MAINLINE OF RAMPS 2" MILL & FILL BP-1 SHOULDER OF RAMPS

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.





						MAINLINE QUANTITIES	
LOG MILE START	LOG MILE FND	TOTAL LENGTH (FT)	LANE WIDTH (FT)	INSIDE SHLDR (FT)	OUTSIDE SHLDR (FT)	3/4" ULTRATHIN BONDED ASPHALT WEARING SURFACE (SY)	NOTES / REMARKS
163.242	164.774	8089.0	24.0	4.0	10.0	34153.39	BEGINNING OF JOB (COOPER COUNTY LINE)
164.774	165.274	2640.0	24.0	4.0	10.0	11146.67	BEFORE ROUTE J OFF RAMP CONCRETE EXCEPTION (LOG MILES 0.220)
165.476	165.976	2640.0	24.0	4.0	10.0	11146.67	AFTER ROUTE J OFF RAMP CONCRETE EXCEPTION (LOG MILES 0.220)
165.976	170.976	26400.0	24.0	4.0	10.0	111466.67	
170.976	171.356	2006.4	24.0	4.0	10.0	8471.47	APPROACHING US 65 NB
171.356	171.496	739.2	24.0	4.0	10.0	3121.07	
171.496	171.737	1272.5	36.0	4.0	4.0	6221.01	BEGINNING OF AUX LANE FOR US 65 NB FROM I-70 WB
171.737	171.796	311.5	24.0	4.0	10.0	1315.31	BEFORE BRIDGE / CONCRETE EXCEPTION 171.796-171.861 (0.065 LOG MILES)
171.861	171.901	211.2	36.0	4.0	4.0	1032.53	AFTER BRIDGE / CONCRETE EXCEPTION 171.796-171.861 (0.065 LOG MILES)
171.901	172,401	2640.0	24.0	4.0	10.0	11146.67	US 65 On Ramp towards I-70
172,401	172,775	1974.7	24.0	4.0	10.0	8337.71	END OF JOB AT BLACKWATER RIVER (BRIDGE #G0518)
163.242	172.775	50,334.2				2075.59	INCLUDED FOR SAFETY EDGE (ONLY FOR 4' OR LESS SHOULDER LENGTH)
	•	SUBT	OTAL			209,634.74	
	MAINLINE TOTALS					209,635	

	RAMP QUANTITIES													
LOG	LOG	TOTAL	LANE	INSIDE	OUTSIDE	2" BITUMINOUS PAVEMENT PG 76-22	2" ASPHALTIC CONCRETE PG 64-22	TACK	COLD MILLING	COLD MILLING INSIDE	COLD MILLING OUTSIDE	NOTES / REMARKS		
MILE START	MILE END	LENGTH (FT)	WIDTH (FT)	SHLDR (FT)	SHLDR (FT)	(SP 125C BSM) (TON)	(BP-1) (TON)	COAT (GAL)	(LANE 1) (SY)	SHLDR (SY)	SHLDR (SY)			
0.000	0.147	776.2	18.0	4.0	6.0	168.77	95.63	241.5	1552.3	345.0	517.4	ROUTE J OFF RAMP (I-70 LOG MILE 165.156)		
0.000	0.137	723.4	18.0	4.0	6.0	157.29	89.13	225.0	1446.7	321.5	482.2	ROUTE J ON RAMP (I-70 LOG MILE 165.496)		
0.000	0.047	248.2	18.0	4.0	6.0	53.96	30.58	77.2	496.3	110.3	165.4	ROUTE J ON RAMP (I-70 LOG MILE 165.156)		
0.047	0.405	1890.2	18.0	4.0	6.0	411.02	232.90	588.1	3780.5	840.1	1260.2	US 65 NB OFF RAMP (I-70 LOG MILE 171.357)		
0.000	0.240	1267.2	18.0	4.0	6.0	275.55	156.13	394.2	2534.4	563.2	844.8	US 65 NB CLOVERLEAF TOWARDS I-70 WB		
0.000	0.183	966.2	18.0	4.0	6.0	210.10	119.05	300.6	1932.5	429.4	644.2	I-70 WB CLOVERLEAF TOWARDS US65 SB		
0.000	0.254	1341.1	18.0	4.0	6.0	291.62	165.24	417.2	2682.2	596.1	894.1	US 65 SB OFF RAMP (I-70 LOG MILE 172.061)		
VAR	VAR	7,212.48					8.89					INCLUDED FOR SAFETY EDGE (INSIDE SHOULDER ONLY)		
		SUBT	OTAL		•	1568.31	897.54	2243.9	14425.0	3205.5	4808.3			
RAMP TOTALS						1568.3	897.5	2244		22439				

MISSOURI HIGHWAYS AND TRANSPOR-COMMISSION

MADOT

105 WEST

THANKAM MATHEW - CIVIL MO-PE-2014000056 DATE PREPARED 1/22/2024

ROUTE STATE 70 MO
DISTRICT SHEET NO. KC 3

COUNTY

COUNTY
SALINE
JOB NO.
J413366
CONTRACT ID.

PROJECT NO.

MOBILIZATION
1 LUMP SUM

SHOULDER LINE RUMBLE STRIPS 501.8 STA.

MODIFIED								
COLDMILLING								
LOCATION	LANE WIDTH	LENGTHS	SUBTOTAL					
LUCATION	(FT)	(FT)	SQFT					
US-65 INTERCHANGE	18	400	7200					
BEFORE RTE J	12	400	4800					
ROUTE J	18	200	3600					
LEMON TRAIL	12	400	4800					
	TOTAL		20400					
T	TOTAL (SQYD)							

SUMMARY OF QUANTITIES
SHEET 1 OF 4

				FUI	LL & PAR	TIAL DEPT	h repair	QUANTITIES						
							FD	FURNISHING		TYPE				
							PATCH	& PLACING	SUBGRADE	1 or 5				1
							SIZE	CONCRETE	COMPACTION	AGG	SAW	DOWEL	DOWEL	TIE
DATE	HIGHWAY	LOG	RECOMMENDED	DIME	NS I ON	INTERIOR	(DIM/9)	MATERIAL	6"	BASE (4")	CUT	BAR	BASKET	BAR
MARKED	LOCATION	MILE	LANE	FT :	× FT	CUTS	(SQYD)	(SQYD)	(SQYD)	(SQYD)	(LF)	(EA)	(EA)	(EA)
11/21/2023	I-70 WB	85.442	1	6	12		8.00	8.00	0.80	0.80	36	20		
11/21/2023	I-70 WB	85.443	1	10	12	YES	13.33	13.33	1.33	1.33	56	20		
11/21/2023	I-70 WB	85.411	1	10	12	YES	13.33	13.33	1.33	1.33	56	20		
11/21/2023	I-70 WB	85.866	1	6	12		8.00	8.00	0.80	0.80	36	20		1
11/21/2023	I-70 WB	84.347	1	6	12		8.00	8.00	0.80	0.80	36	20		1
11/21/2023	I-70 WB	83.766	1	6	12		8.00	8.00	0.80	0.80	36	20		1
11/21/2023	I-70 WB	81.723	1	6	12		8.00	8.00	0.80	0.80	36	20		
11/21/2023	I-70 WB	81.724	1	6	12		8.00	8.00	0.80	0.80	36	20		1
11/21/2023	I-70 WB	81.545	1	6	12		8.00	8.00	0.80	0.80	36	20		
11/21/2023	I-70 WB	79.828	1	6	12		8.00	8.00	0.80	0.80	36	20		
11/21/2023	I-70 WB	78.230	1	165	12	YES	220.00	220.00	22.00	22.00	678	20	110	55
		TOTALS				_	_	310.67	31.07	31.07	1078.00	220.00	110.00	55.00

THANKAM MATHEW NUMBER PE-201400056 03/06 J4 AM
THANKAM MATHEW - CIVIL
MO-PE-2014000056
DATE PREPARED
3/5/2024 70 MO DISTRICT KC SHEET NO. SALINE JOB NO.
J4I3366
CONTRACT ID. PROJECT NO.

NOTE: TO SEE MORE DETAIL WITH MEASURING SAW CUTS REFER TO: EPG 613.1.1 OR 613.00T STANDARD PLAN

AT DISCRETION OF ENGINEER

					MAINLINE F	PERMANENT PAV	EMENT MARKING
			6"	6"	6 <i>"</i>	12"	
			YELLOW	WHITE	INT. WHITE	WHITE	
			ARCYLIC	ARCYLIC	ARCYLIC	ARCYLIC	REMARKS
LOG	LOG	TOTAL	WATERBORNE	WATERBORNE	WATERBORNE	WATERBORNE	
MILE	MILE	LENGTH		(TYPE L BEADS)			
START	END	(FT)	(LF)	(LF)	(LF)	(LF)	
163.274	163.774	2640.0	2640.0	2640.0	660.0	,	BEGINNING OF JOB (COOPER COUNTY LINE)
163.774	164.274	2640.0	2640.0	2640.0	660.0		
164.274	164.774	2640.0	2640.0	2640.0	660.0		
164.774	165.256	2545.0	2545.0	2545.0	636.2	360.0	ROUTE J OFF RAMP (LOG MILE 165.156)
165.256	165.476	1161.6	1161.6	1161.6	290.4	430.0	CONCRETE EXCEPTION (LOG MILE 0.220)
165.476	170.476	26400.0	26400.0	26400.0	6600.0		
170.476	170.856	2006.4	2006.4	2006.4	501.6		APPROACHING US 65 NB
170.856	170.996	739.2	739.2	739.2	184.8	264	BEGINNING OF AUX LANE FOR US 65 NB FROM I-70 WB (WIDE DOTTED LINES ARE INCLUDED IN 12" MARKINGS)
170.996	171.237	1272.5	1272.5	1272.5	318.1		
171.237	171.296	311.5	311.5	311.5	77.9	345	WIDE DOTTED LINES ARE INCLUDED IN 12" WHITE QUANTITIES
171.296	171.861	2983.2	2983.2	2983.2	745.8		BRIDGE / CONCRETE EXCEPTION 171.796-171.861 (0.065 LOG MILES)
171.861	171.901	211.2	211.2	211.2	52.8	280.0	
171.901	172.401	2640.0	2640.0	2640.0	660.0	440.0	US 65 SB ON RAMP TOWARDSI-70 WB
172.401	172.775	1974.7	1974.7	1974.7	493.7		END OF JOB AT BLACKWATER RIVER (BRIDGE#G0518)
	SUB TOTAL 50,165 50,165		12,541	2,119			
MAINLINE TOTAL			50,165	62,	707	2,119	

					RAMP PER	RMANENT PAVEM	ENT MARKING
			6"	6"	6"	12"	
			YELLOW	WHITE	INT. WHITE	WHITE	
			ARCYLIC	ARCYLIC	ARCYLIC	ARCYLIC	REMARKS
LOG	LOG	TOTAL	WATERBORNE	WATERBORNE	WATERBORNE	WATERBORNE	
MILE	MILE	LENGTH	(TYPE L BEADS)	(TYPE L BEADS)	(TYPE L BEADS)	(TYPE L BEADS)	
START	END	(FT)	(LF)	(LF)	(LF)	(LF)	
0.000	0.147	776,160	776.2	776.2			ROUTE J OFF RAMP (I-70 LOG MILE 165.156)
0.000	0.137	723.360	723.4	723.4			ROUTE J ON RAMP (I-70 LOG MILE 165.496)
0.000	0.047	248.160	248.2	248.2			
0.047	0.405	1890.240	1890.2	1890.2			US 65 NB OFF RAMP (I-70 LOG MILE 171.357)
0.000	0.240	1267.200	1267.2	1267.2		330	US 65 NB CLOVERLEAF TOWARDS I-70 WB
0.000	0.183	966,240	966.2	966.2		175	I-70 WB CLOVERLEAF TOWARDS US65 SB
0.000	0.254	1341.120	1341.1	1341.1			US 65 SB ON RAMP (I-70 LOG MILE 172.061)
	SUB TOTAL		7,212	7,212	0	505	
	RAMP TOTAL		7,212	7,212		505	
TOTALS 57,		57,378	69,	919	2,624		



										EFFECTIVE: 04-01-2023	.,,,,
TOTAL QTY TOTAL SIGN	N					QTY TOTAL SIG	GN	П		ETTECTIVE: 04-01-2025	July AFE
SIZE AREA QTY AREA RELOCRELOC NUM			SIZE	AREA O	гү Ітота	AL RELOC RELOC NUM					11/2
SIGN IN. SQ.FT EACH SQ.FT. EACH SQ.FT.		SIGN		I		T EACH SQ.FT.		ITEM	TOTAL		
WARNING SIGNS	DESCRIPTION		ı		JIDE S		DESCRIPTION	NUMBER		DESCRIPTION	PBO PE-8
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT ARROW)	E05-1	36X48				GORE EXIT	6122008	1	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	11,58810
WO1-1R 48X48 16.00	TURN (SYMBOL RIGHT ARROW)	E05-2	48X36	12.00			EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	7/1/1/
WO1-2L 48X48 16.00	CURVE (SYMBOL LEFT ARROW)	E05-2a					EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	03/06/20 THANKAM
W01-2R 48X48 16.00	CURVE (SYMBOL RIGHT ARROW) REVERSE TURN (SYMBOL LEFT ARROW)	GO20 - 1 GO20 - 2			4 40		ROAD WORK NEXT 10 MILES END ROAD WORK	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS) IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	THANKAM MO-PE DATE
W01-3L 48X48 16.00	REVERSE TURN (SYMBOL RIGHT ARROW)	G020-2 G020-4			+ 32		PILOT CAR FOLLOW ME	6122014		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	3/5
WO1-4L 48X48 16.00	REVERSE CURVE (SYMBOL LEFT ARROW)	GO20 4a					PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	ROUTE
WO1-4R 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT ARROW)	GO20-4a	18X12	1.50			PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	70 DISTRICT
WO1-4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	GO20-5aP			3 48		WORK ZONE (PLAQUE)	6122030	1	IMPACT ATTENUATOR (RELOCATION)	KC
WO1-4bR 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)		24X18				END DETOUR	6123001	1	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	C
W01-4cL 48X48 16.00 W01-4cR 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 9L MO4 - 9R	48X36		_		DETOUR (LEFT ARROW) DETOUR (RIGHT ARROW)	6161008 6161012	2	BUOYS (BOATS KEEP OUT)	SA
WO1-6 60X30 12.50	HORIZONTAL ARROW (SYMBOL)	MO4 - 9P					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	J4
WO1-6a 72X36 18.00	HORIZ ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4 - 10L					DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	CONT
WO1-7 60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18				DETOUR (ARROW RIGHT)	6161025	150	CHANNELIZER (TRIM LINE)	PRO
WO1-7a 72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				EGULAT	DRY SIGNS	Toman	6161030		TYPE III MOVEABLE BARRICADE	FRO
W01-8 18X24 3.00 W01-8a 30X36 7.50	CHEVRON (SYMBOL) CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		48X48 48TRI.				STOP YIELD	6161033 6161040		DIRECTION INDICATOR BARRICADE FLASHING ARROW PANEL	BR I
WO3-1 48X48 16.00	STOP AHEAD (SYMBOL)		36X36				TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER	—
WO3-2 48X48 16.00 2 32	YIELD AHEAD (SYMBOL)		30X12				ALL WAY (PLAQUE)	6161055	120	SEQUENTIAL FLASHING WARNING LIGHT	
WO3-3 48X48 16.00	SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	3 36		SPEED LIMIT XX	6161070		TUBULAR MARKER	
WO3-4 48X48 16.00 4 64	BE PREPARED TO STOP		48X48				NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
W03-5 48X48 16.00 4 64	SPEED LIMIT AHEAD		48X48				NO LEFT TURN (SYMBOL)	1		CHANGEABLE MESSAGE SIGN,	Z
WO4-1L 48X48 16.00 4 64 WO4-1R 48X48 16.00 4 64	MERGE (SYMBOL FROM LEFT) MERGE (SYMBOL FROM RIGHT)		36X36 48X48				NO TURNS NO U-TURN (SYMBOL)	6161096	2	COMMISSION FURNISHED/RETAINED CHANGEABLE MESSAGE SIGN W/O COMM.	
WO4-1aL 48X48 16.00	MERGE (ARROW SYMBOL)		30X30				LEFT LANE MUST TURN LEFT	61610984	\	INTERFACE - CONTRACTOR FURNISHED/RETAINED	R I R
WO4-1aR 48X48 16.00	MERGE (ARROW SYMBOL)		30X30				RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.	SSC
WO5-1 48X48 16.00 2 32	ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00			DO NOT PASS	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED	ا ام
WO5-3 48X48 16.00	ONE LANE BRIDGE		36X48				PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
W05-5 48X48 16.00 2 32 W06-1 48X48 16.00	NARROW LANES		36X48				KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
W06-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL) DIVIDED HIGHWAY END (SYMBOL)		36X48 30X30				DO NOT ENTER	 		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED	
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)		36X24				WRONG WAY	1		TEMPORARY TRAFFIC BARRIER	ш
WO7-3a 30X24 5.00 2 10	NEXT 10 MILES (PLAQUE)	R6-1L	54X18	6.75			ONE WAY ARROW (LEFT)	6173602E	3	CONTRACTOR FURNISHED/COMMISSION RETAINED	DAT
WO8-1 48X48 16.00	BUMP		54X18				ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-2 48X48 16.00	DIP		24X30				ONE WAY (DIGHT)	61750104	4	RELOCATING TEMPORARY TRAFFIC BARRIER	N C
WO8-3 48X48 16.00 WO8-4 48X48 16.00	PAVEMENT ENDS SOFT SHOULDER		24X30 24X12				ONE WAY (RIGHT) SIDEWALK CLOSED	 6176000E		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED	Ĭ
W08-5 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)	1113-3	24/12	2.00			SIDEWALK CLOSED AHEAD,	10170000	1	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	Ι¥
WO8-6 48X48 16.00	TRUCK CROSSING (WITH FLAGS)	R9-11L	24X18	3.00			(ARROW LEFT) CROSS HERE	6177000E	3	COMMISSION FURNISHED/RETAINED	ļ ģ
WO8-6c 48X48 16.00	TRUCK ENTRANCE						SIDEWALK CLOSED AHEAD,	6208064 <i>A</i>	1	TEMPORARY RAISED PAVEMENT MARKER	ISN
W08-7 36X36 9.00	LOOSE GRAVEL		24X18				(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
W08-7a 36X36 9.00 W08-9 48X48 16.00	FRESH OIL/LOOSE GRAVEL LOW SHOULDER	R10-6 R11-2	24X36		2 20		STOP HERE ON RED (45^ ARROW) ROAD CLOSED	9029401	-	TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
W08-9 48X48 16.00 W08-11 48X48 16.00	UNEVEN LANES	K11-2	46730	10.00	2 20		ROAD CLOSED XX MILES AHEAD				ANE
WO8-12 48X48 16.00	NO CENTER LINE	R11-3a	60X30	12.50			LOCAL TRAFFIC ONLY				SMI
WO8-15 48X48 16.00	GROOVED PAVEMENT	R11-4	60X30	12.50			ROAD CLOSED TO THRU TRAFFIC				Y NO. (
WO8-15P 30X24 5.00	MOTORCYCLE (PLAQUE)	CONST-3A					FINE SIGN				HIGHWAYS COMMI
W08-17 48X48 16.00 2 32	SHOULDER DROP-OFF (SYMBOL)	CONST - 3X	56X12		166511	ANTOUG STONE	SPEEDING/PASSING (PLATE)				Į _į [
W08-17P 30X24 5.00 2 10 W10-1 42RND. 9.62	SHOULDER DROP-OFF (PLAQUE) RAILROAD CROSSING	CONST-5	18X36		ISCELLA	ANEOUS SIGNS	POINT OF PRESENCE	-			- <i> </i>
W012-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)	CONST - 5			2 64		POINT OF PRESENCE	1			Sour
W012-2 48X48 16.00	LOW CLEARANCE (SYMBOL)	CONST - 7			_		RATE OUR WORK ZONE])SS
W012-2X 24X18 3.00	LOW CLEARANCE (PLAQUE)	CONST-7					RATE OUR WORK ZONE]			
WO12-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)	CONST-8	48X36	12.00	2 24		WORK ZONE NO PHONE ZONE				
W012-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD							-			
W013-1 30X30 6.25	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD ADVISORY SPEED (PLAQUE)							1			
W016-2 30X24 5.00	XXX FEET (PLAQUE)										
WO16-3 30X24 5.00	X MILE (PLAQUE)										
WO20-1 48X48 16.00 4 64	ROAD/BRIDGE/RAMP WORK AHEAD										
W020-2 48X48 16.00	DETOUR AHEAD							-			
W020-3 48X48 16.00 2 32 W020-4 48X48 16.00 1 16	ROAD CLOSED AHEAD ONE LANE ROAD AHEAD	616-10	0.5		TOTA	41		J			
W020-5 48X48 16.00 4 64	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	CONSTRU		N SIGNS		→ I					
W020-5a 48X48 16.00	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10			. , , , , , ,	TOTAL					
WO20-6a 48X48 16.00 4 64	RIGHT/CENTER/LEFT LANE CLOSED	RELOCAT		I GNS		0					
WO20-7a 48X48 16.00	FLAGGER (SYMBOL, WITH FLAGS)									OHANTITY SHEET	
W021-2 36X36 9.00	FRESH OIL	-								QUANTITY SHEET	
W021-5 48X48 16.00 1 16 W022-1 48X48 16.00	SHOULDER WORK AHEAD BLASTING ZONE AHEAD	-								SHEET 4 OF 4	
W022-1 48X48 18.00 W022-2 42X36 10.50	TURN OFF 2-WAY RADIO AND PHONE	1									
WO22-3 42X36 10.50	END BLASTING ZONE]									

WET PAINT (ARROW PIVOTS)

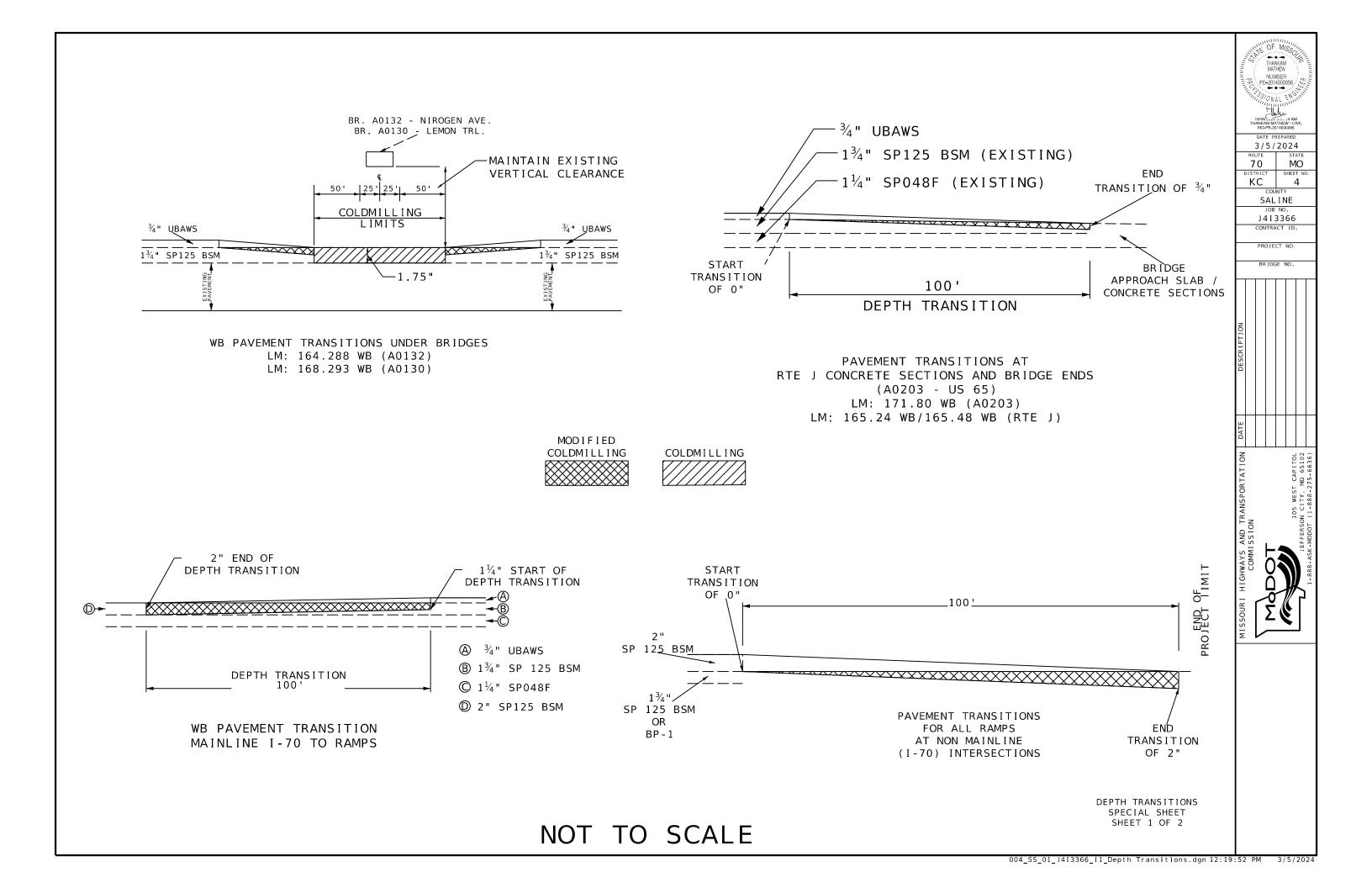
GO22-1 21X15 2.19 2 4.38

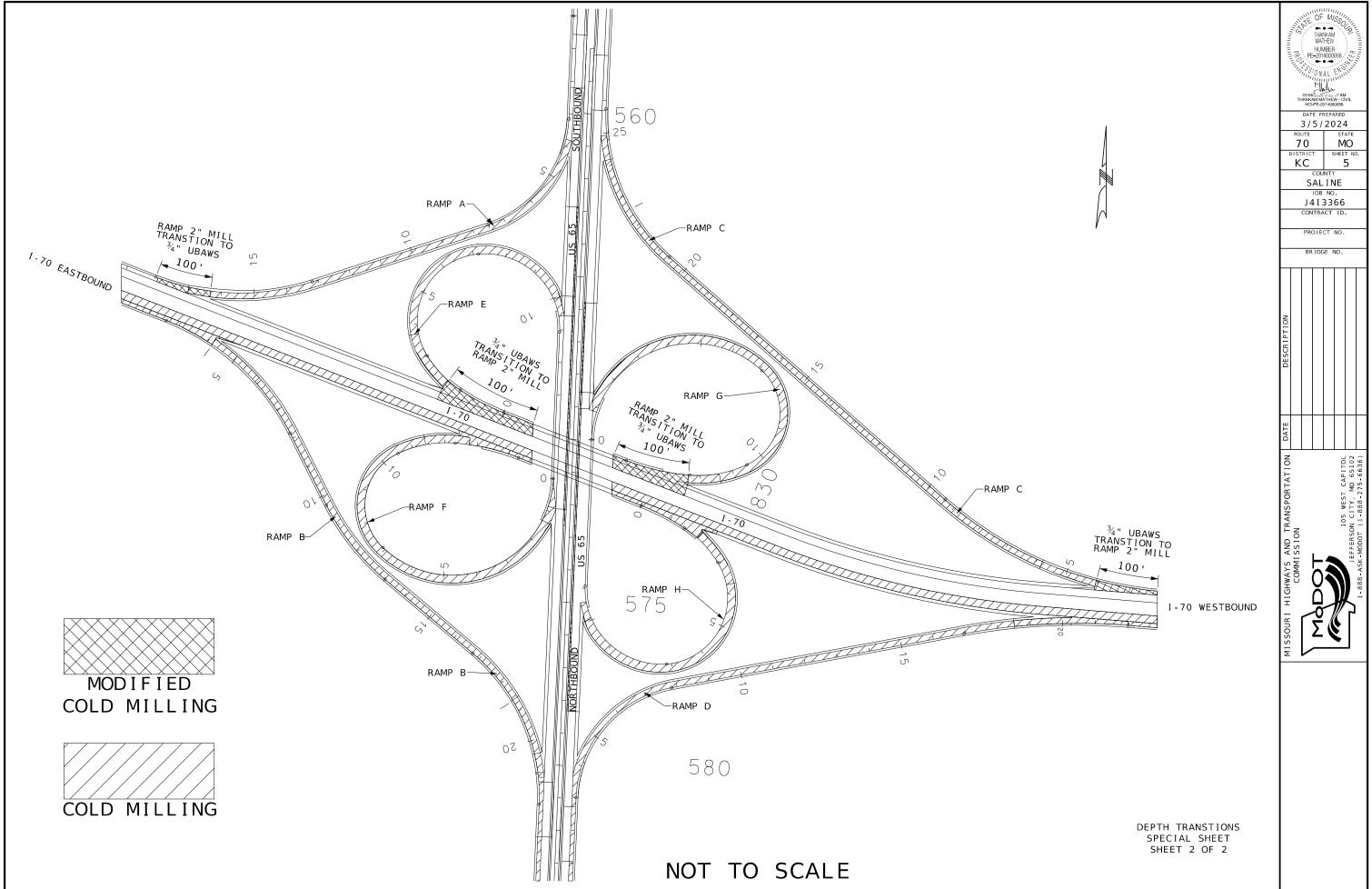
OF M/SS

THANKAM MATHEW
NUMBER
PE-2014000056

ONAL ENTERPRISE

ONAL ENTERP COUNTY
SALINE
JOB NO.
J413366
CONTRACT ID. PROJECT NO. BRIDGE NO.





Traffic Control Legend, Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

TRAFFIC CONTROL LEGEND

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

•	SIGN (SINGLE SIDED)		FLASHING ARROW PA	NEL
9	FLAGGER		CHANGEABLE MESSAG BOARD	E
	CHANNELIZER	3	BARRICADE	
	PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW	♦	TUBULAR MARKERS	
	PANEL AND REAR-MOUNTED IMPACT ATTENUATOR UNIT.		[DET

TAPER LENGTH (L)

L = W X P FOR 40 MPH OR MORE

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

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

DETAILS NOTES:

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

TAPE	R LENGTHS A	ND END TREA	TEMENTS FO	R CONCRETE BARRIER
PERMANENT				
POSTED SPEED	MINIMUM LANE	TAPER LENGTH	(3)	
MPH	10′	11′	12′	END TREATMENT (4)
<40	160′	168′	176′	BARRIER HEIGHT TRANSITION
>40	160′	168′	176′	APPROVED CRASH CUSHION

		TAPER	LENGTHS AND) SPACING FOR CHANNE	ELIZER	S	
PERMANENT				MINIMUM SHOULDER	BUFFER	MAXIMUM CHANNELIZ	ZER SPACING
POSTED SPEED	MINIMUM LAN	NE TAPER LENGT	H (L) (3)	TAPER LENGTH (T1)	LENGTH	THROUGH	THROUGH
MPH	10′	11′	12′	BASED ON 10' SHOULDER	FT	TAPER	WORK AREA
0-35	205′	225′	245′	70′	280'	35 '	40′
40-45	450′	495′	540′	150′	400'	40 '	80'
50-55	550′	605′	660′	185′	560′	50'	80′
60-70	700′	770′	840′	235′	840'	60 '	120′

EPG TABLE 616.12 RECOMMENDE	D MAXIMUM SPEED REDUCTIONS
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH

SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.

LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

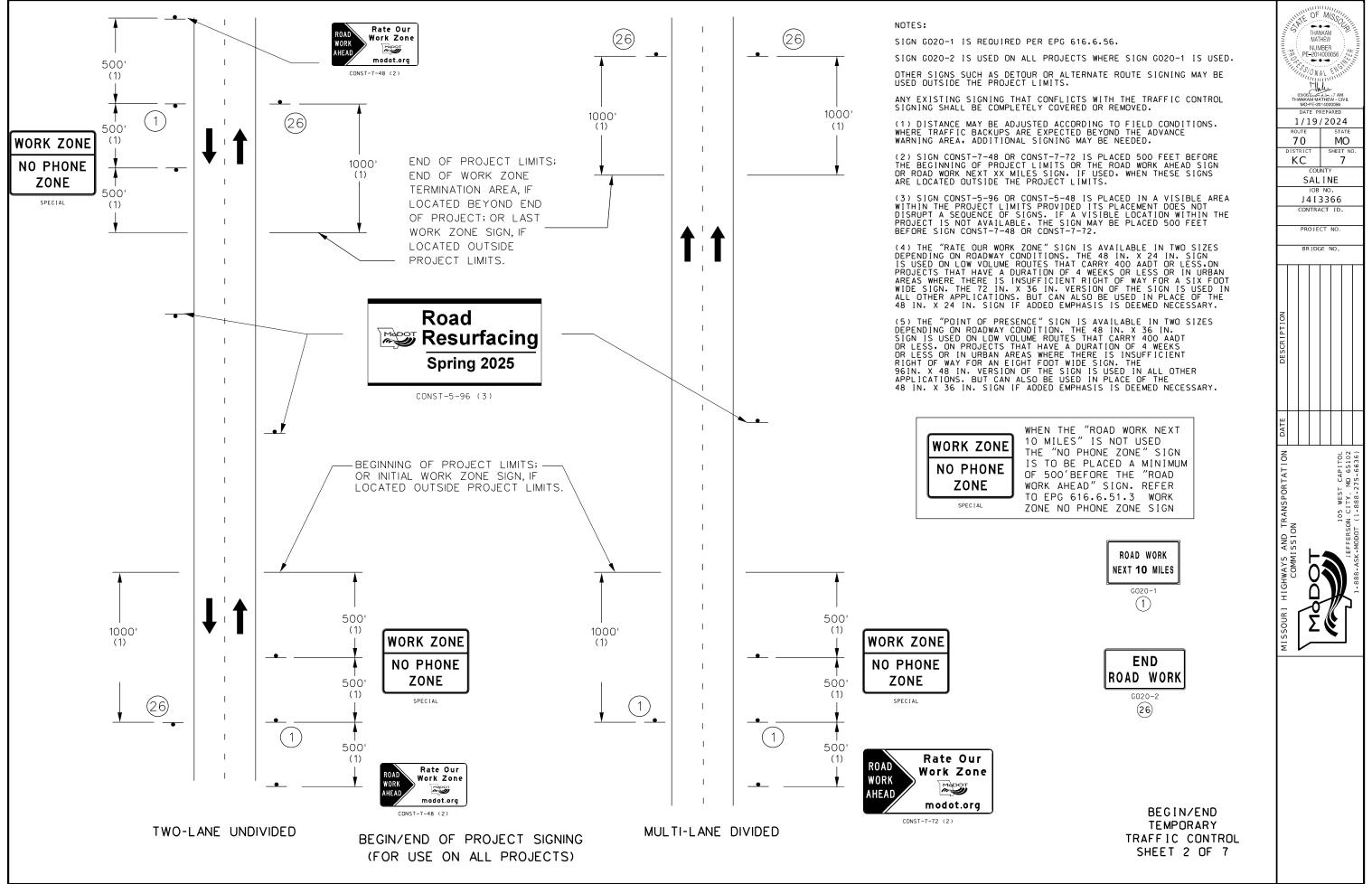
(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

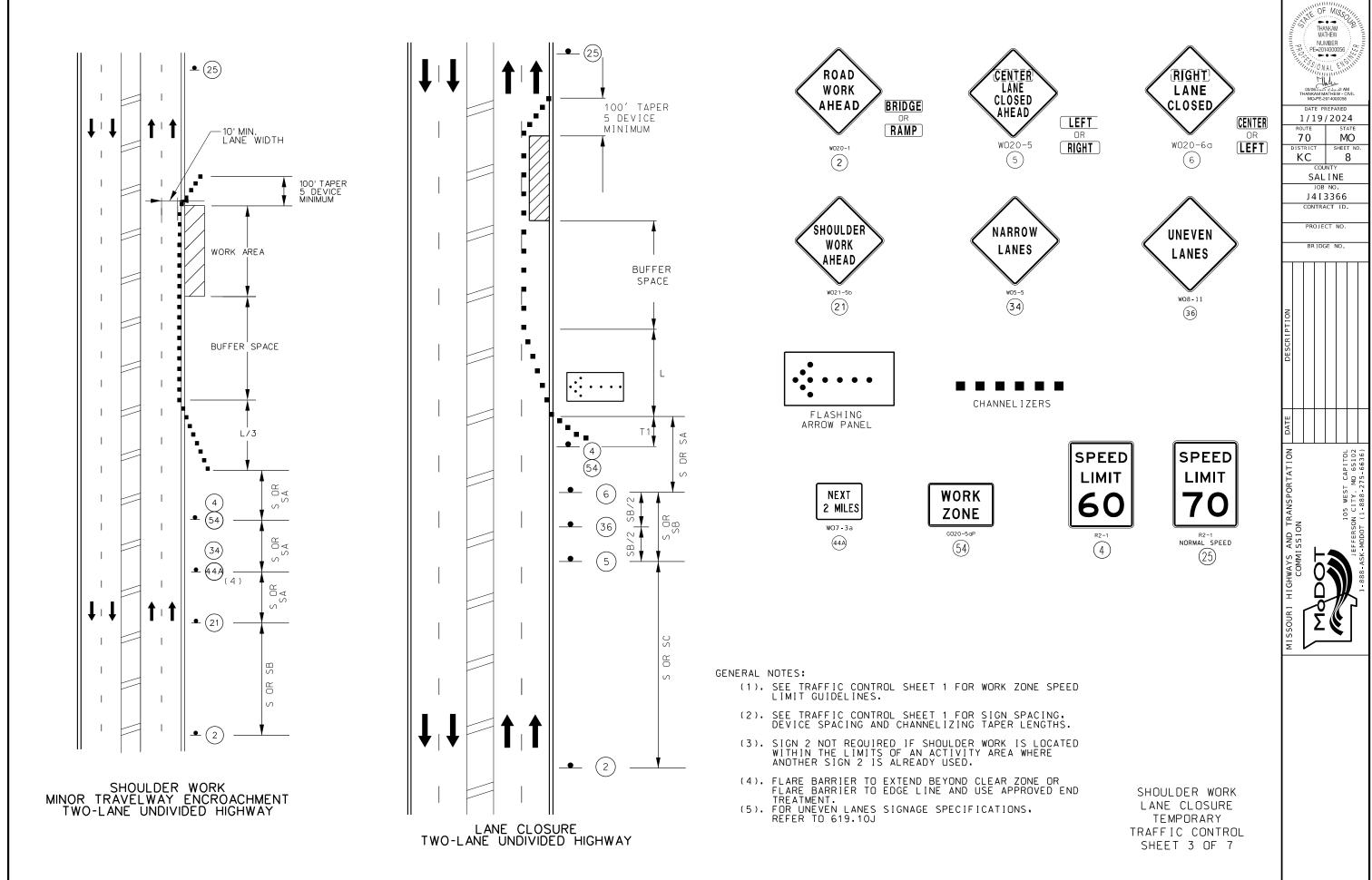
GENERAL NOTES:

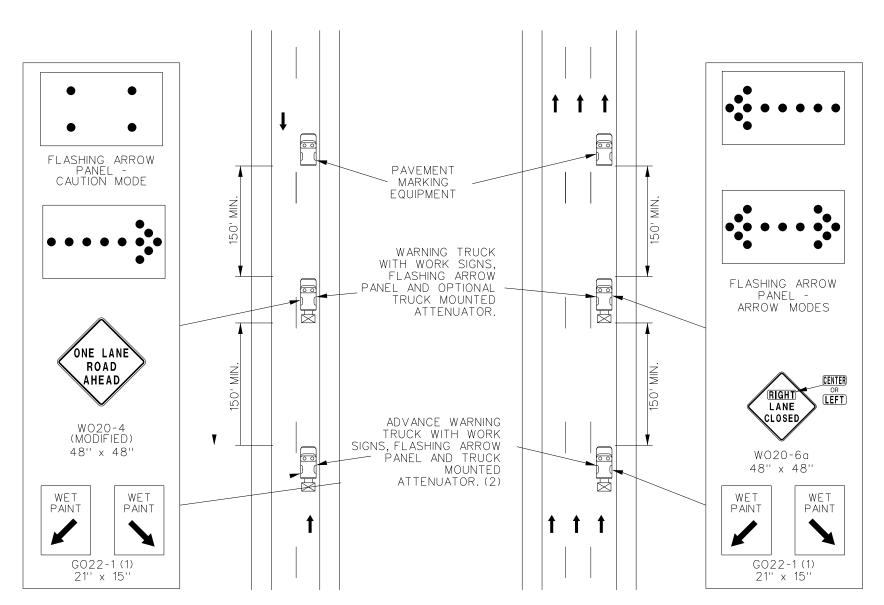
- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
- 2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- 3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- 4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- 5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.
- 6. SIGN SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FEILD CONDITIONS.

SPACING TEMPORARY TRAFFIC CONTROL SHEET 1 OF 7









TWO LANE UNDIVIDED HIGHWAY

MULTI-LANE DIVIDED HIGHWAY

MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC

NOTES:

ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROFLECTIVE SHEETING.

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

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

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

- (1). WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION. A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.
- (2). ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

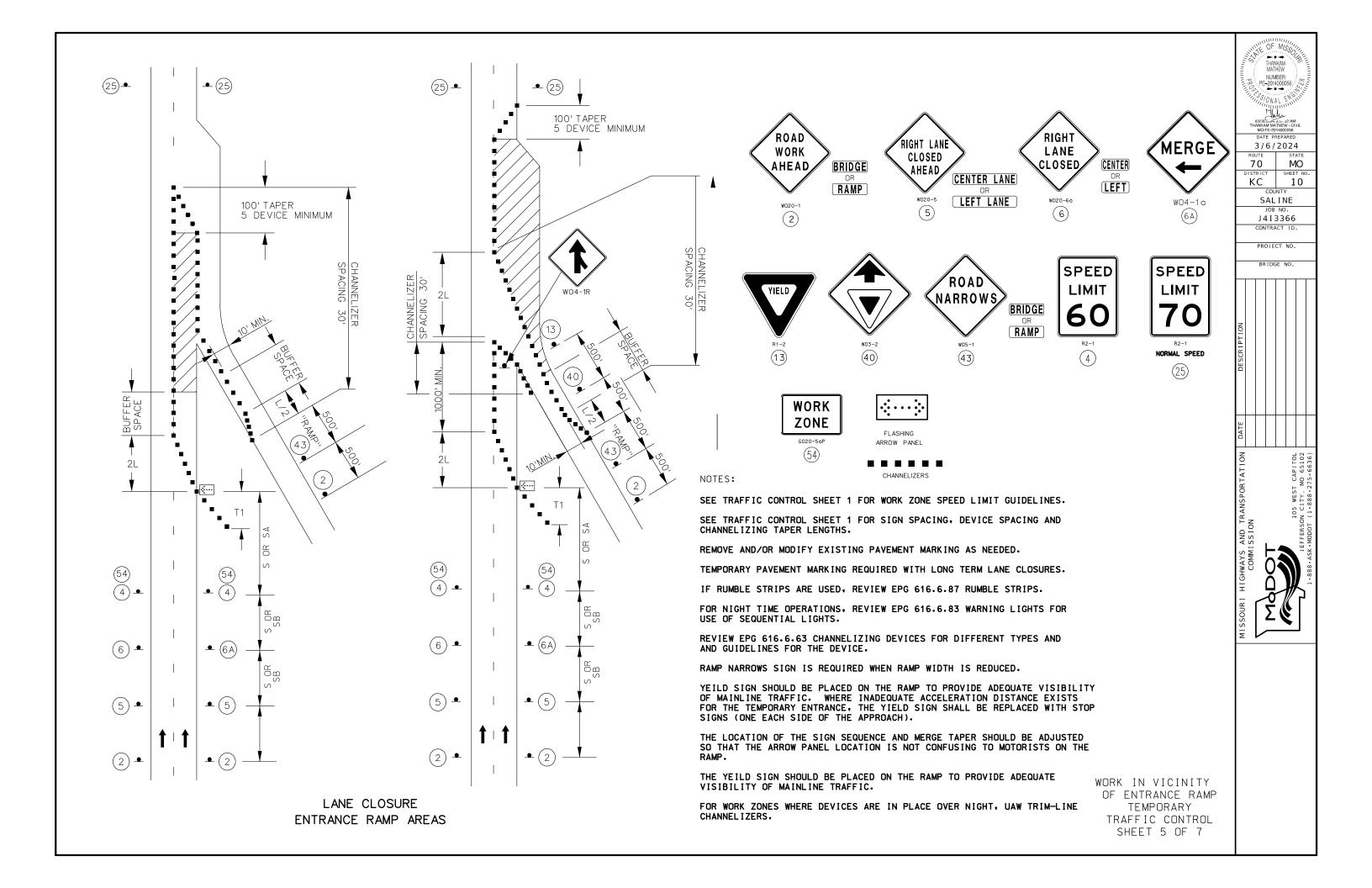
FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

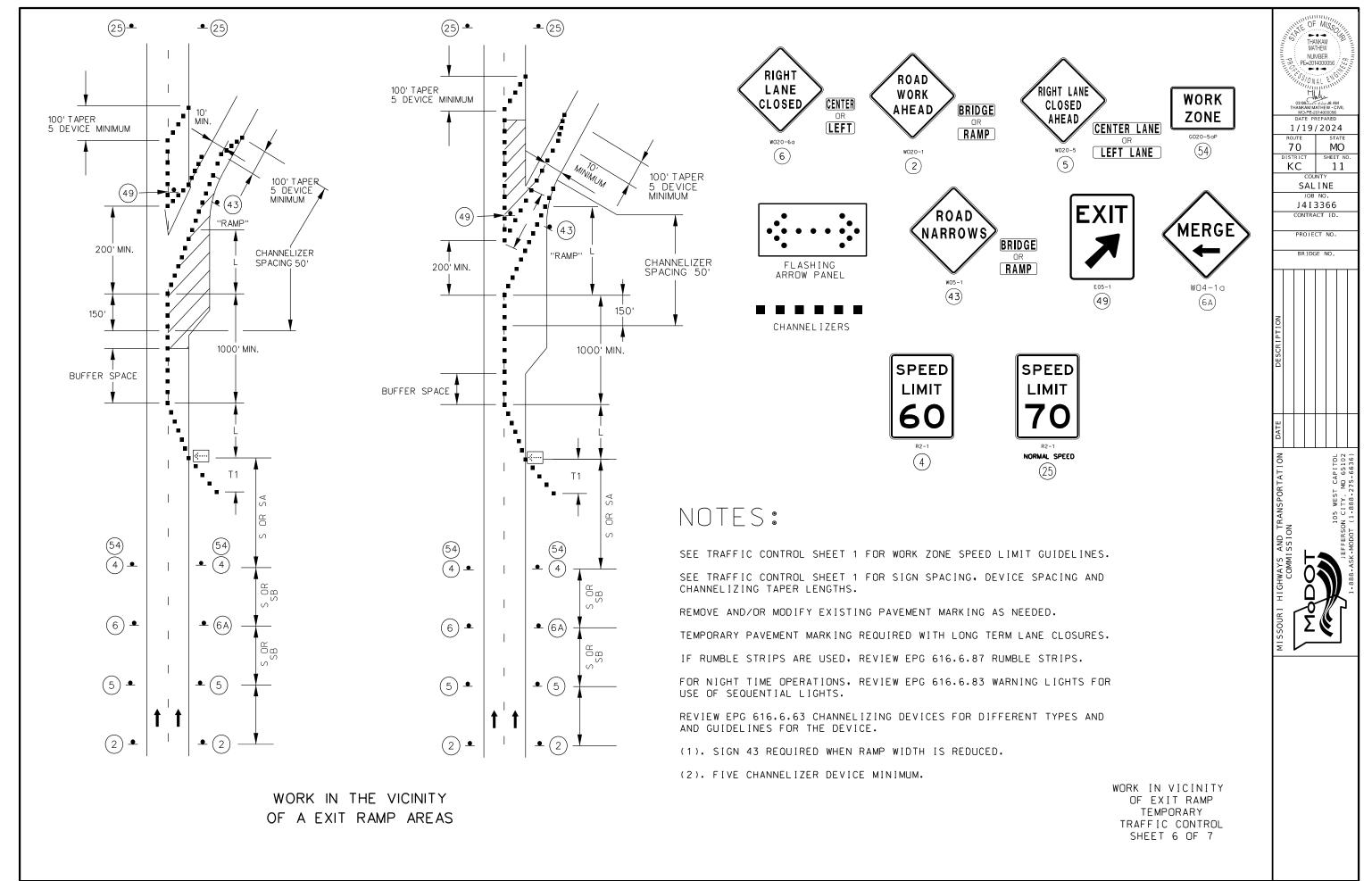
VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

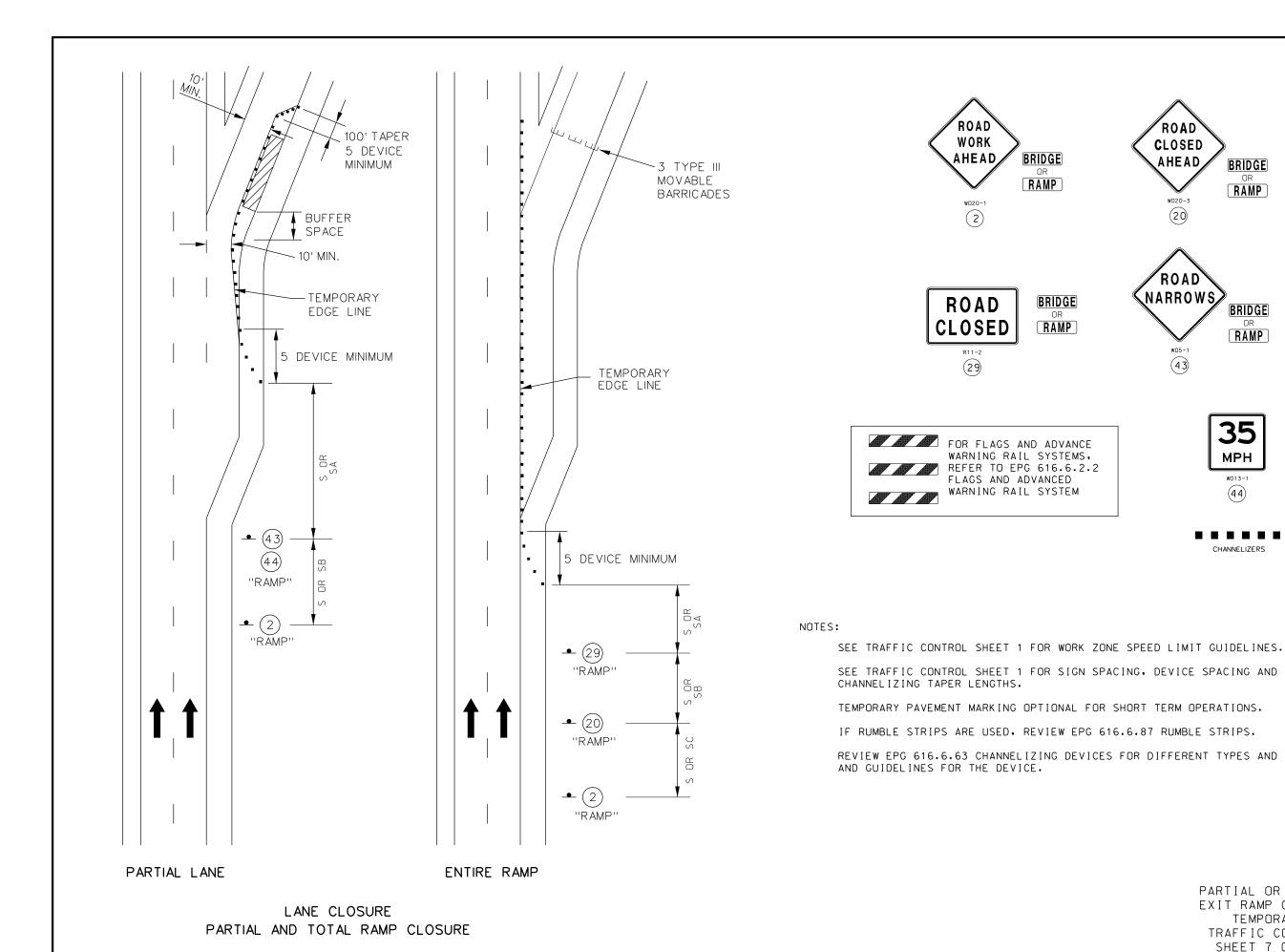
A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE IS CLOSED A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

---THANKAM MATHEW NUMBER PE-2014000056 1/19/2024 70 MO SHEET NO KC 9 SALINE J4I3366 CONTRACT ID. PROJECT NO. BRIDGE NO.

CENTERLINE AND/OR LANE LINE STRIPING ON MULTI-LANE UNDIVIDED HIGHWAYS TEMPORARY TRAFFIC CONTROL SHEET 4 OF 7







THANKAM MATHEW 1/19/2024 70 MO KC 12 SALINE J4I3366 CONTRACT ID. PROJECT NO.

PARTIAL OR TOTAL EXIT RAMP CLOSURE TEMPORARY TRAFFIC CONTROL SHEET 7 OF 7

BRIDGE

RAMP

BRIDGE

RAMP

35

MPH

WO13-1 (44)

CHANNELIZERS

WD20-3

(43)

DESIGN DESIGNATION

A.A.D.T. - 2022 = 14128 A.A.D.T. - 2022 = 14128 D.H.V. = 8 % V = 70 M.P.H.

D - N/A

FUNCTIONAL CLASSIFICATION-INTERSTATE

NO RIGHT OF WAY

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY



SALINE COUNTY FINAL PLANS

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEET)	2
QUANTITIES (QU) (4 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4 - 10

	<i>,</i> ,	1 3				
			CT		•	
	PRO	ΟJΕ	СТ	NO.		
	BR	IDG	SE N	10.		
DESCRIPTION						
DATE						

THANKAM MATHEW

NUMBER

SIONAL

1/24/2024

SALINE J4I3366B

MO

1

70

KC

LENGTH OF PROJECT

BEGINNING OF PROJECT LOG MILE 77.218 END OF PROJECT LOG MILE 86.721 APPARENT LENGTH 9.503 MILES (50,175.84 FEET)



EQUATIONS AND EXCEPTIONS: BRIDGE A0203 EXCEPTION (~243 FEET) LEMON TRAIL CONCRETE EXCEPTION (~692 FEET)

NET LENGTH OF PROJECT 49,240 84 FEET (9.33 MILES)

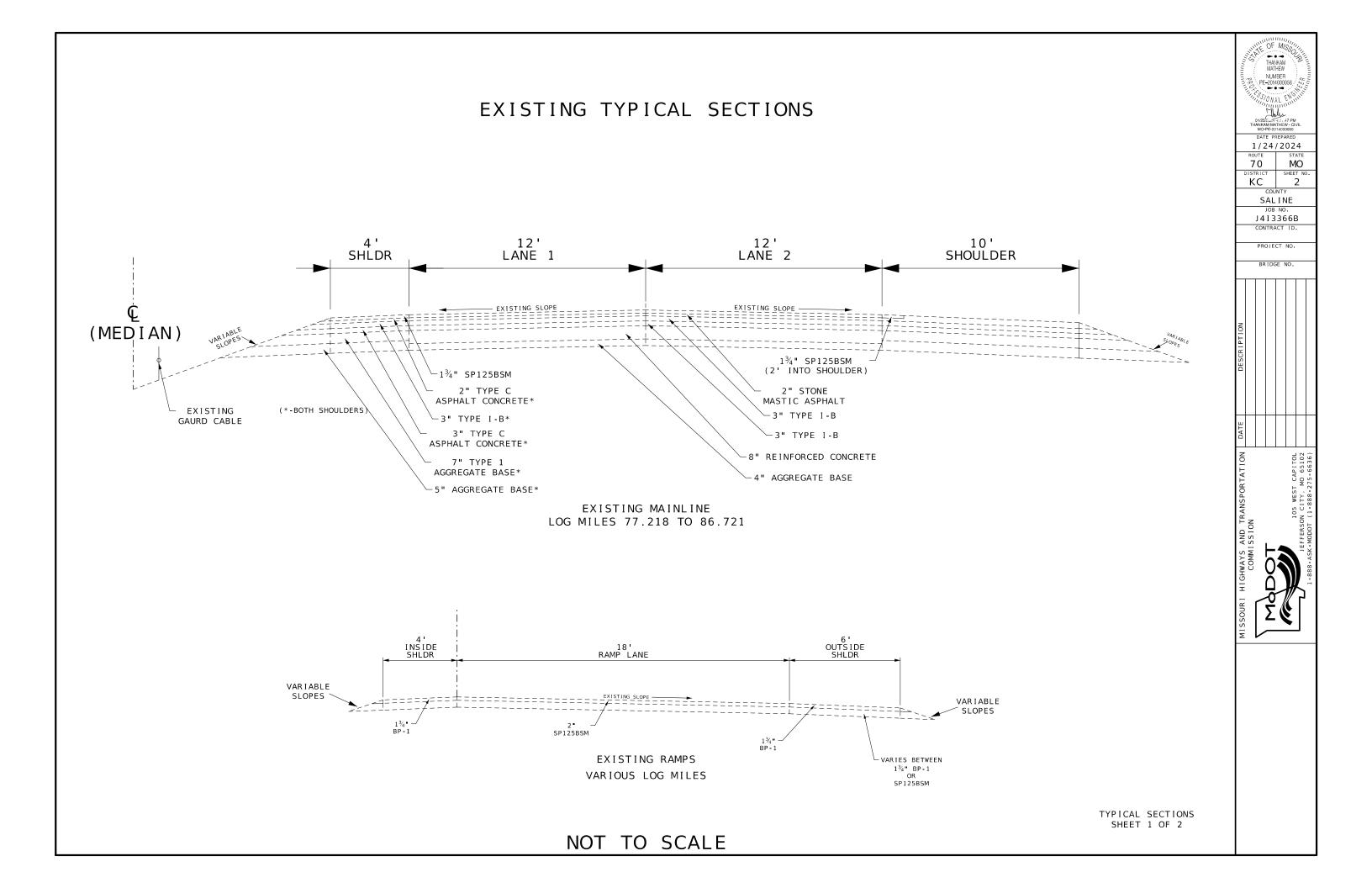
CONVENTIONAL SYMBOLS (USED IN PLANS)

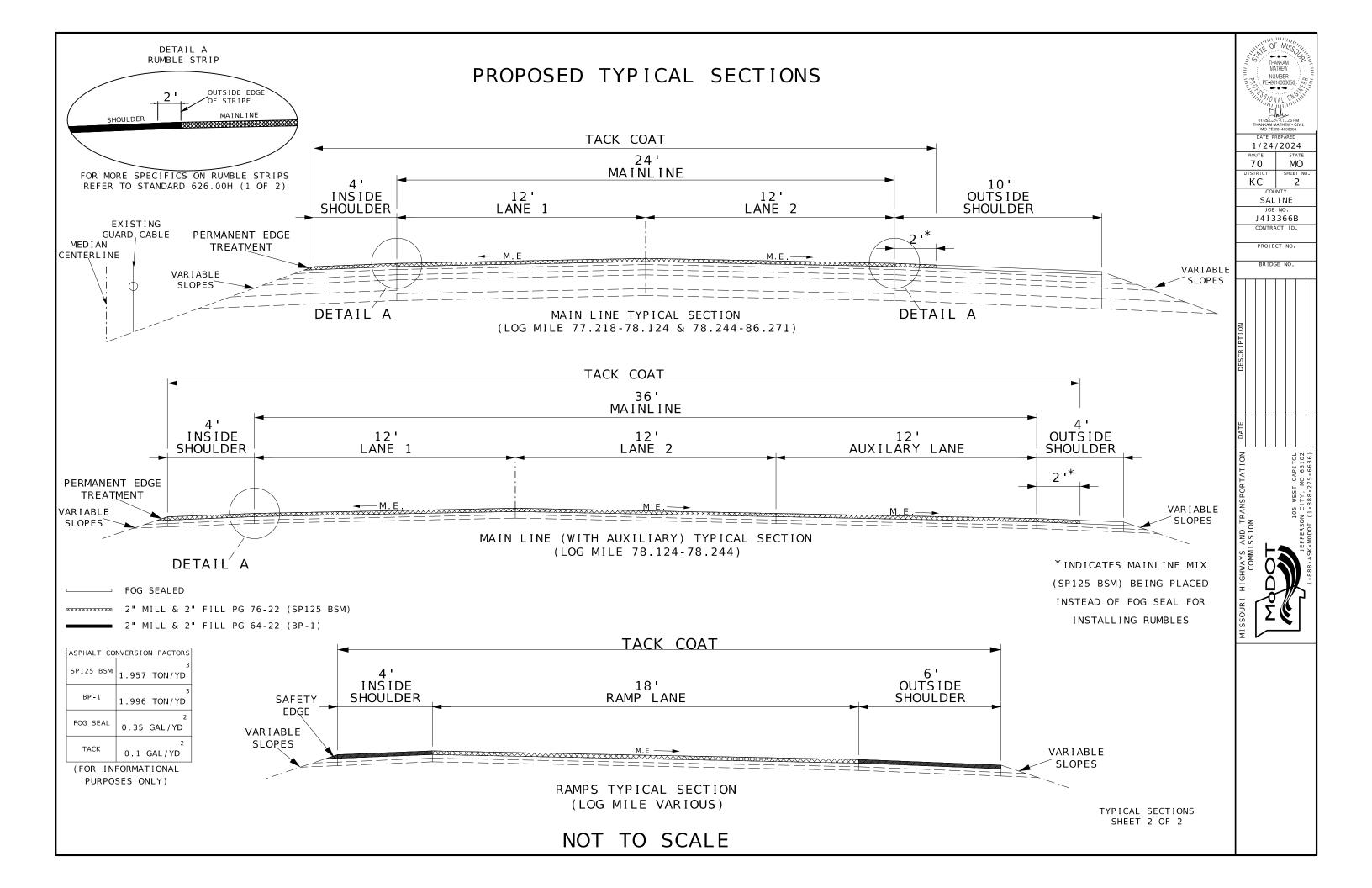
(0322 111 12/110	,	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILLITIES	0000 0000 111 77	••••• ••••
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FOOTVUTV OT UT OE UE S SS G W	-UTV- -OT- -UT- -OE-
MANHOLE	SAN)
FIRE HYDRANT	HYD	1
WATER VALVE	w^_)
WATER METER	₩*)
DROP INLET	°[_	
DITCH BLOCK	=	=
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED	·
BENCHMARK	8)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

SALINE COUNTY RIDGE PRAIRIE JUNC/LIQN 12 3790007 A0131 11 8 10 COOPER 15 13 18 17 15 16 3790020 A6529 R20W **R21W** R20W R19W 77.218 TO 86.721 (9.03 MILES), EASTBOUND I-70 (STARTING AT BLACKWATER RIVER AND ENDING TO COOPER COUNTY LINE.) 2" MILL & FILL SP125 BSM (76-22) - MAINLINE, INSIDE SHOULDER & RAMPS FOG SEAL - MAINLINE OUTISIDE SHOULDER 2" MILL & FILL BP-1 (64-22) RAMP SHOULDERS

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.





								MAINLIN	NE QUANTI	TIES			
						2" BITUMINOUS PAVEMENT			COLD	COLD	COLD MILLING	COLD MILLING	
LOG	LOG	TOTAL	LANE	INSIDE	OUTSIDE	PG 76-22	500 0541	TACK	MILLING	MILLING	AUX	INSIDE	NOTES / REMARKS
MILE	MILE	LENGTH	WIDTH	SHLDR	SHLDR	(SP 125C BSM)	FOG SEAL	COAT	(LANE 1)	(LANE 2)	LANES	SHLDR	
START	END	(FT)	(FT)	(FT)	(FT)	(TON)	(GAL)	(GAL)	(SY)	(SY)	(SY)		
77.218	77.718	2640.0	26.0	4.0	8.0	956.76	821.33	880.0	3520.0	4106.7		1173.3	START AT BLACKWATER RIVER (BRIDGE#A0207)
77.718	77.818	528.0	26.0	4.0	8.0	191.35	164.27	176.0	704.0	821.3		234.7	
77.818	77.938	633.6	26.0	4.0	8.0	229.62	197.12	211.2	844.8	985.6		281.6	
77.938	78.124	982.1	38.0	4.0	8.0	498.28	305.54	458.3	1309.4	1309.4	1527.7	436.5	START OF AUX LANE FOR US 65 SB FROM I-70 EB
78.124	78.159	184.8	38.0	4.0	2.0	93.76	14.37	86.2	246.4	246.4	287.5	82.1	BEFORE BRIDGE / CONCRETE EXCEPTION 78.159-78.205 (0.046 LOG MILES)
78.205	78.244	205.9	38.0	4.0	2.0	104.48	16.02	96.1	274.6	274.6	320.3	91.5	AFTER BRIDGE / CONCRETE EXCEPTION 78.159-78.205 (0.046 LOG MILES)
78.244	78.484	1267.2	26.0	4.0	8.0	459.24	394.24	422.4	1689.6	1971.2		563.2	APPROACHING US 65 NB OFF RAMP TOWARDS I-70 EB
78.484	78.610	665.3	26.0	4.0	8.0	241.10	206.98	221.8	887.0	1034.9		295.7	START OF AUX LANE FOR US 65 NB FROM I-70 EB
78.610	81.610	15840.0	26.0	4.0	8.0	5740.53	4928.00	5280.0	21120.0	24640.0		7040.0	
81.610	81.632	116.2	26.0	4.0	8.0	42.10	36.14	38.7	154.9	180.7		51.6	APPROACHING LEMON TRAIL CONCRETE EXCEPTION 81.632-81.763 (0.131 LOG MILES)
81.763	82.263	2640.0	26.0	4.0	8.0	956.76	821.33	880.0	3520.0	4106.7		1173.3	AFTER CONCRETE EXCEPTION 81.632-81.763 (0.131 LOG MILES)
82.263	84.263	10560.0	26.0	4.0	8.0	3827.02	3285.33	3520.0	14080.0	16426.7		4693.3	
84.263	84.356	491.0	26.0	4.0	8.0	177.96	152.77	163.7	654.720	763.8		218.2	ROUTE J OFF RAMP FROM I-70 EB
84.356	84.739	2022.2	26.0	4.0	8.0	732.87	629.14	674.1	2696.320	3145.7		898.8	
84.739	84.871	697.0	38.0	4.0	8.0	353.62	216.83	325.2	929.280	929.3	1084.2	309.8	ROUTE J ON RAMP TO I-70 EB
84.871	86.520	8706.7	26.0	4.0	8.0	3155.38	2708.76	2902.2	11608.960	13543.8		3869.7	
86.520	86.721	1061.3	26.0	4.0	8.0	384.62	330.18	353.8	1415.040	1650.9		471.7	END OF JOB AT COOPER COUNTY LINE
		SUBT	OTAL			18145.44	15228.34	16689.73	65655.04	76137.60	3219.63	21885.01	
		MAINLIN	E TOTAL			18145	15228	16690	166897				

LOG MILE	LOG MILE	TOAL LENGTH	LANE WIDTH	INSIDE SHLDR	OUTSIDE SHDLR	PERMANENT EDGE TREATMENT	NOTES / REMARKS
START	END	(FT)	(FT)	(FT)	(FT)	(LF)	
77.218	86.721	50175.8	0.0	4.0	0.0	50175.8	ENTIRE LENGTH OF PROJECT ON THE OUTISDE EDGE OF THE INSIDE SHOULDER
		TOT	AL			50175.84	

								RAMP	QUANTITI	ES		
LOG MILE	LOG MILE	TOAL LENGTH	LANE WIDTH	INSIDE SHLDR	OUTSIDE SHDLR	2" BITUMINOUS PAVEMENT PG 76-22 (SP 125C BSM)	2" ASPHALTIC CONCRETE PG 64-22 (BP-1)	TACK COAT	COLD MILLING (LANE 1)	COLD MILLING INSIDE SHLDR	COLD MILLING OUTSIDE SHLDR	NOTES / REMARKS
START	END	(FT)	(FT)	(FT)	(FT)	(TON)	(TON)	(GAL)	(SY)	(SY)	(SY)	
0.000	0.339	1789.9	18.0	4.0	6.0	389.21	220.54	556.9	3579.8	795.520	1193.3	US 65 SB OFF RAMP (I-70 LOG MILE 77.940)
0.000	0.237	1251.4	18.0	4.0	6.0	272.10	154.18	389.3	2502.7	556.160	834.2	US 65 SB CLOVERLEAF TOWARDS 1-70 EB
0.000	0.190	1003.2	18.0	4.0	6.0	218.14	123.60	312.1	2006.4	445.867	668.8	I-70 EB CLOVERLEAF TOWARDS US65 NB
0.000	0.313	1652.6	18.0	4.0	6.0	359.36	203.62	514.2	3305.3	734.507	1101.8	US 65 NB OFF RAMP (I-70 LOG MILE 78.484)
0.000	0.165	871.2	18.0	4.0	6.0	189.44	107.34	271.0	1742.4	387.200	580.8	ROUTE J OFF RAMP (I-70 LOG MILE 85.693)
0.000	0.146	770.9	18.0	4.0	6.0	167.62	94.98	239.8	1541.8	342.613	513.9	ROUTE J ON RAMP (I-70 LOG MILE 85.996)
0.000	0.019	100.3	18.0	4.0	6.0	21.81	12.36	31.2	200.6	44.587	66.9	ROUTE J ON RAMP (I-70 LOG MILE 85.693)
VAR	VAR	7439.5					9.17					INCLUDED FOR SAFETY EDGE (INSIDE SHOULDER ONLY)
•		SUBT	OTAL			1617.68	925.79	2314.52	14879.04	3306.45	4959.68	
		RAMP	TOTAL			1617.68	2314.52	2314.52 23145.17				
		TOT	ALS			19763.1		19004.2		190042.5		

MOBILIZATION
1 LUMP SUM

SHOULDER LINE RUMBLE STRIP 501.8 STA.

01/25% ATTE ROUTE STATE
70 MO
DISTRICT SHEET NO.
KC 3 COUNTY
SALINE
JOB NO.
J4I3366B
CONTRACT ID. PROJECT NO.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

						FULL	DEPTH REP	AIR QUAN	TITIES						
								FD PATCH SIZE	FURNISHING & PLACING CONCRETE	SUBGRADE COMPACTION	TYPE 1 or 4 AGG	SAW	DOWEL	DOWEL	TIE
DATE	HIGHWAY	LOG	RECOMMENDED	FULL	I DIMEI	NSION	INTERIOR	(DIM/9)	MATERIAL	6"	BASE (4")	CUT	BAR	BASKET	BAR
MARKED	LOCATION	MILE	LANE	DEPTH	FT :		CUTS	(SQYD)	(SQYD)	(SQYD)	(SQYD)	(LF)	(EA)	(EA)	(EA)
11/22/2023	I-70 EB	77.227	1	YES	40	12	YES	53.33	53.33	5.33	5.33	176	20	20	10
11/23/2023	I-70 EB	77.227	2	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	77.243 77.844	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	77.861	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	77.881	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	77.956 78.097	1 1	YES YES	6	12 12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	78.353	1	YES	15	12	YES	20.00	20.00	2.00	2.00	78	20		
11/22/2023	I-70 EB	79.949	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	79,986	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	80.174 80.187	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	80.209	1	YES	20	12	YES	26.67	26.67	2.67	2.67	100	20		
11/22/2023	I-70 EB	80.222	1	YES	10	12	YES	13.33	13.33	1.33	1.33	56	20		
11/22/2023	I-70 EB I-70 EB	80.739 80.749	1 1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	80.749	1 1	YES	8	12	YES	10.67	10.67	1.07	1.07	36 52	20		
11/22/2023	I-70 EB	81.131	1	YES	6	12	120	8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	81.254	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	81.438 81.608	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	81.619	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	81.735	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	81.758	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	81.977 81.988	1	YES YES	6	12 12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	82.000	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	82.058	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		-
11/22/2023	I-70 EB	82.104	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	82.600 84.149	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	84.160	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	84.194	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	84.219	1 1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	84.228 84.252	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	84.348	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	84.927	1	YES	10	12	YES	13.33	13.33	1.33	1.33	56	20		
11/22/2023	I-70 EB I-70 EB	84.973 85.172	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	85.192	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	85.245	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	85.320	2 / Shoulder	YES	10	330	YES	366.67	366.67	36.67	36.67	1230	20	210	110
11/22/2023	I-70 EB I-70 EB	85.576 86.000	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	86.105	1	YES	10	12	YES	13.33	13.33	1.33	1.33	56	20		
11/22/2023	I-70 EB	86.220	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB I-70 EB	86.382 86.407	1	YES YES	6	12		8.00	8.00 8.00	0.80	0.80	36 36	20		
11/22/2023	I-70 EB	86.423	1	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	84.160	2	YES	6	12		8.00	8.00	0.80	0.80	36	20		
11/22/2023	I-70 EB	80.222	2	YES	6	12		8.00	8.00	0.80	0.80	36	20		
												0			
												0			
												0			
												0			
												0			
												0			
	Subt	otal		53	To-	tal	-	-	877.3	88.0	88.0	3424.0	1060.0	230	120

AT DISCRETION OF ENGINEER

03/06 03/06 10 11 AM THANKAM MATHEW - CIVIL MO-PE-2014000056 DATE PREPARED 3/5/2024 ROUTE STATE
70 MO
DISTRICT SHEET NO.
KC 3 DISTRICT KC COUNTY
SAL INE
JOB NO.
J413366B
CONTRACT ID. PROJECT NO.

SUMMARY OF QUANTITIES

					I I AM	NLINE PERMANE	NT PAVEMENT MARKING
			6"	6"	6"	12"	
			YELLOW	l white I	INT. WHITE	WHITE	
			ARCYLIC	ARCYLIC	ARCYLIC	ARCYLIC	REMARKS
LOG	LOG	TOTAL	WATERBORNE	WATERBORNE	WATERBORNE	WATERBORNE	NEWANICS
MILE	MILE	LENGTH		(TYPE L BEADS)			
START	END	(FT)	(LF)	(LF)	(LF)	(LF)	
77.218	77.718	2640.0	2640.0	2640.0	660.0		START OF JOB AT BLACKWATER RIVER (BRIDGE#A0207)
77.718	77.818	528.0	528.0	528.0	132.0		BEGINNING OF AUX LANE FOR US 65 SB FROM I-70 EB
77.818	77.938	633.6	633.6	633.6	158.4		
77.938	78.124	982.1	982.1	982.1	245.5	320.0	
78.124	78.159	184.8	184.8	184.8	46.2	280.0	GORE POINT FOR AUX LANE BEFORE INTERCHANGE
78.159	78.205	242.9	242.9	242.9	60.7	137.5	BRIDGE / CONCRETE EXCEPTION 78.159-78.205 (0.046 LOG MILES). THIS INCLUDES THE WIDE DOTTED LINES FOR THE AUX LANE
78.205	78.244	205.9	205.9	205.9	51.5	315.0	GORE POINT FOR AUX LANE AFTER INTERCHANGE
78.244	78.484	1267.2	1267.2	1267.2	316.8		APPROACHING US 65 NB OFF RAMP TOWARDS I-70 EB
78.484	78.610	665.3	665.3	665.3	335.1	390.0	BEGINNING OF AUX LANE FOR US 65 NB FROM I-70 EB. THIS INCLUDES DOTTED LINES FOR THE AUX LANE
78.610	81.610	15840.0	15840.0	15840.0	3960.0		
81.610	81.632	116.2	116.2	116.2	29.0		APPROACHING LEMON TRAIL
81.632	81.763	691.7	691.7	691.7	172.9		CONCRETE EXCEPTION 81.632-81.763 (0.131 LOG MILES)
81.763	84.263	13200.0	13200.0	13200.0	3300.0		
84.263	84.356	491.0	491.0	491.0	122.8	480.0	ROUTE J OFF RAMP FROM I-70 EB (INCLUDES GORES)
84.356	84.739	2022.2	2022.2	2022.2	505.6		
84.739	84.871	697.0	697.0	697.0	336.7	375.0	ROUTE J ON RAMP TO I-70 EB (INCLUDES GORES)
84.871	86.520	8706.7	8706.7	8706.7	2176.7		
86.520	86.721	1061.3	1061.3	1061.3	265.3		END OF JOB AT COOPER COUNTY LINE
	SUB TOTAL		50,176	50,176	12,875	2,298	
MAIN	LINE SUB T	OTAL	50,176	63,0	051	2,298	

				RA	AMP PERMANENT PAVEMENT MARKING
			6"	6"	
			YELLOW	WHITE	
			ARCYLIC	ARCYLIC	REMARKS
LOG	LOG	TOTAL	WATERBORNE	WATERBORNE	
MILE	MILE	LENGTH	(TYPE L BEADS)	(TYPE L BEADS)	
START	END	(FT)	(LF)	(LF)	
0.000	0.339	1789.9	1789.9	1789.9	US 65 SB OFF RAMP (I-70 LOG MILE 77.940)
0.000	0.237	1251.4	1251.4	1251.4	US 65 SB CLOVERLEAF TOWARDS I-70 EB
0.000	0.190	1003.2	1003.2	1003.2	I-70 EB CLOVERLEAF TOWARDS US65 NB
0.000	0.313	1652.6	1652.6	1652.6	US 65 NB OFF RAMP (I-70 LOG MILE 78.484)
0.000	0.165	871.2	871.2	871.2	ROUTE J OFF RAMP (I-70 LOG MILE 85.693)
0.000	0.146	770.9	770.9	770.9	ROUTE J ON RAMP (I-70 LOG MILE 85.996)
0.000	0.019	100.3	100.3	100.3	ROUTE J ON RAMP (I-70 LOG MILE 85.693)
	SUB TOTAL	•	7,440	7,440	
R.A	AMP SUB TOT	AL	7,440	7,440	THE GORE POINT STRIPING WAS INCLUDED ON THE MAINLINE STRIPING QUANTITIES
	TOTALS		57,615	70,491	





TOTAL OTV TOTAL CLO	<u></u>	П		ı i	1	LOTY	ITOTALICION	Г	1		T
TOTAL QTY TOTAL SIGN	V					1 '	TOTALSIGN				
SIZE AREA QTY AREA RELOCRELOC NUM			SIZE	AREA QT\	/ ΤΟΤΑΙ	_ RELOC	RELOC NUM.				
SIGN IN SQ.FT EACH SQ.FT EACH SQ.FT.		SIGN	IN.	SQ FT EAC	H SQ.FT	. EACH	SQ.FT.		ITEM	TOTAL	
WARNING SIGNS	DESCRIPTION		•	GUI	DE SI	GNS		DESCRIPTION	NUMBER	QTY	DESCRIPTION
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT ARROW)	E05-1	36X48			1		GORE EXIT	6122008	411	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R 48X48 16.00	TURN (SYMBOL RIGHT ARROW)	E05-2	48X36					EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-1K 46X48 16.00	CURVE (SYMBOL LEFT ARROW)	-	48X36					EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2E 48X48 16.00	CURVE (SYMBOL RIGHT ARROW)	1 — — —		10.00 2	20			ROAD WORK NEXT 10 MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
		1 — — —							6122012		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3L 48X48 16.00	REVERSE TURN (SYMBOL LEFT ARROW)	1 — — —		8.00 2	10			END ROAD WORK			IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
W01 - 3R 48X48 16 . 00	REVERSE TURN (SYMBOL RIGHT ARROW)		36X18					PILOT CAR FOLLOW ME	6122017		
WO1-4L 48X48 16.00	REVERSE CURVE (SYMBOL LEFT ARROW)	GO20 - 4a						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
W01-4R 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT ARROW)	GO20 - 4a			- 26			PILOT CAR IN USE WAIT & FOLLOW	6122020	-	REPLACEMENT SAND BARREL
W01-4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	4	_	6.00 6	36			WORK ZONE (PLAQUE)	6122030	1	IMPACT ATTENUATOR (RELOCATION)
WO1-4bR 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4-8a	24X18					END DETOUR	6123001	1	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
W01-4cL 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	MO4 - 9L	48X36					DETOUR (LEFT ARROW)	6161008	2	ADVANCED WARNING RAIL SYSTEM
WO1-4cR 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)		48X36					DETOUR (RIGHT ARROW)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6 60X30 12.50	HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	48X12					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a 72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L						DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7 60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18				<u> </u>	DETOUR (ARROW RIGHT)	6161025	150	CHANNELIZER (TRIM LINE)
WO1-7a 72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				<u>SULATOR</u>	RY SIG	NS .		6161030		TYPE III MOVEABLE BARRICADE
WO1-8 18X24 3.00	CHEVRON (SYMBOL)	R1-1	48X48					STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a 30X36 7.50	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.					YIELD	6161040	2	FLASHING ARROW PANEL
WO3-1 48X48 16.00	STOP AHEAD (SYMBOL)	R1-2a	36X36					TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3-2 48X48 16.00 1 16	YIELD AHEAD (SYMBOL)	R1-3P	30X12					ALL WAY (PLAQUE)	6161055	40	SEQUENTIAL FLASHING WARNING LIGHT
WO3-3 48X48 16.00	SIGNAL AHEAD (SYMBOL)	R2 - 1	_	12.00 3	36			SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3-4 48X48 16.00	BE PREPARED TO STOP	R3-1	48X48					NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3-5 48X48 16.00	SPEED LIMIT AHEAD	R3-2	48X48					NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,
WO4-1L 48X48 16.00 2 32	MERGE (SYMBOL FROM LEFT)	R3-3	36X36					NO TURNS	6161096		COMMISSION FURNISHED/RETAINED
WO4-1R 48X48 16.00 2 32	MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00				NO U-TURN (SYMBOL)		2	CHANGEABLE MESSAGE SIGN W/O COMM.
WO4-1aL 48X48 16.00	MERGE (ARROW SYMBOL)	R3-7L	30X30	6.25				LEFT LANE MUST TURN LEFT	6161098A		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4-1aR 48X48 16.00	MERGE (ARROW SYMBOL)	R3-7R	30X30	6.25				RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.
WO5-1 48X48 16.00 2 32	ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00				DO NOT PASS	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5-3 48X48 16.00	ONE LANE BRIDGE	R4-2	36X48	12.00				PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5-5 48X48 16.00 2 32	NARROW LANES	R4-8a	36X48	12.00				KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO6-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48	12.00				KEEP RIGHT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER
WO6-2 48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R5 - 1	30X30	6.25				DO NOT ENTER	6173600D		CONTRACTOR FURNISHED/RETAINED
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00				WRONG WAY			TEMPORARY TRAFFIC BARRIER
WO7-3a 30X24 5.00 1 5	NEXT 10 MILES (PLAQUE)	R6-1L	54X18	6.75				ONE WAY ARROW (LEFT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8-1 48X48 16.00	BUMP	R6-1R	54X18	6.75				ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-2 48X48 16.00	DIP	R6-2L	24X30	5.00				ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-3 48X48 16.00	PAVEMENT ENDS	R6-2R	24X30	5.00				ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER
WO8-4 48X48 16.00	SOFT SHOULDER	R9-9	24X12	2.00				SIDEWALK CLOSED	6176000B		COMMISSION FURNISHED/RETAINED
WO8-5 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)							SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-6 48X48 16.00	TRUCK CROSSING (WITH FLAGS)	R9-11L	24X18	3.00				(ARROW LEFT) CROSS HERE	6177000B		COMMISSION FURNISHED/RETAINED
WO8-6c 48X48 16.00	TRUCK ENTRANCE							SIDEWALK CLOSED AHEAD,	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8-7 36X36 9.00	LOOSE GRAVEL	R9-11R	24X18	3.00				(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS
WO8-7a 36X36 9.00	FRESH OIL/LOOSE GRAVEL	R10-6	24X36					STOP HERE ON RED (45^ ARROW)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-9 48X48 16.00	LOW SHOULDER			10.00 2	20			ROAD CLOSED			
WO8-11 48X48 16.00 1 16	UNEVEN LANES							ROAD CLOSED XX MILES AHEAD			
WO8-12 48X48 16.00	NO CENTER LINE	R11-3a	60X30	12.50				LOCAL TRAFFIC ONLY			
WO8-15 48X48 16.00	GROOVED PAVEMENT	R11-4			+			ROAD CLOSED TO THRU TRAFFIC			
WO8-15P 30X24 5.00	MOTORCYCLE (PLAQUE)	CONST - 3A						FINE SIGN			
W08-17 48X48 16.00 2 32	SHOULDER DROP-OFF (SYMBOL)	CONST - 3X						SPEEDING/PASSING (PLATE)			
W08-17P 30X24 5.00 2 10	SHOULDER DROP-OFF (PLAQUE)	1			CELLA	VEOUS	SIGNS	, , , , , , , , , , , , , , , , , , , ,			
W10-1 42RND. 9.62	RAILROAD CROSSING	CONST - 5	48X36		JEELFAI	1		POINT OF PRESENCE			
W012-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)			32.00 2	64			POINT OF PRESENCE			
W012-1 24X24 4.00 W012-2 48X48 16.00	LOW CLEARANCE (SYMBOL)			8.00 4				RATE OUR WORK ZONE			
W012-2X 24X18 3.00	LOW CLEARANCE (PLAQUE)	CONST - 7			- 32			RATE OUR WORK ZONE			
W012-2A 24X16 3.00 W012-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)			12.00 2	24			WORK ZONE NO PHONE ZONE			
W012-2a 04X24 14.00 W012-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD	CONST-0	40730	12.00 2	- 24			WORK ZONE NO FIIONE ZONE			
W012-5 120X60 50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	1									
W012-3 120X60 30.00 W013-1 30X30 6.25	ADVISORY SPEED (PLAQUE)	 			+						
		 			+						
W016-2 30X24 5.00	XXX FEET (PLAQUE)	\vdash			+						
W016-3 30X24 5.00	X MILE (PLAQUE)				+						
W020-1 48X48 16.00 2 32	ROAD/BRIDGE/RAMP WORK AHEAD	 			+	-					
W020-2 48X48 16.00	DETOUR AHEAD	 			+						
W020-3 48X48 16.00 2 32	ROAD CLOSED AHEAD	L C1C 12	0.5		TOT	+					
W020-4 48X48 16.00	ONE LANE ROAD AHEAD	616-10		N CICH	TOTAL	=					
W020-5 48X48 16.00 2 32	RIGHT/CENTER/LEFT LANE CLOSED AHEAD			N SIGNS	604		TOTAL				
WO20-5a 48X48 16.00	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10					TOTAL				
W020-6a 48X48 16.00 2 32	RIGHT/CENTER/LEFT LANE CLOSED	RELOCA	TED S	1GNS			0				
WO20-7a 48X48 16.00	FLAGGER (SYMBOL, WITH FLAGS)	4									CHMARY OF CHANTITIES
WO21-2 36X36 9.00	FRESH OIL	1									SUMARY OF QUANTITIES
WO21-5 48X48 16.00 1 16	SHOULDER WORK AHEAD	1									SHEET 4 OF 4

SHOULDER WORK AHEAD

BLASTING ZONE AHEAD

WET PAINT (ARROW PIVOTS)

END BLASTING ZONE

TURN OFF 2-WAY RADIO AND PHONE

WO21-5 48X48 16.00 1 16

GO22-1 21X15 2.19 2 4.38

WO22-1 48X48 16.00 WO22-2 42X36 10.50

WO22-3 42X36 10.50

SUMARY OF QUANTITIES SHEET 4 OF 4

Traffic Control Legend, Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

TRAFFIC CONTROL LEGEND

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

	1117111110 0011		
•	SIGN (SINGLE SIDED)	FLASHING ARROW PANE	L
7	FLAGGER	CHANGEABLE MESSAGE BOARD	
-	CHANNELIZER	BARRICADE	
)	PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW PANEL AND REAR-MOUNTED	♦ TUBULAR MARKERS	TAII
🗷	MPACT ATTENUATOR UNIT.	<u> </u>	/ (1)

TAPER LENGTH (L)

L = W X P FOR 40 MPH OR MORE

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

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

DETAILS NOTES:

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE
 RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE
 CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

TAPEI	R LENGTHS A	ND END TREAT	TEMENTS FOR	CONCRETE BARRIER			
PERMANENT							
POSTED SPEED MINIMUM LANE TAPER LENGTH (3)							
MPH	10′	11′	12′	END TREATMENT (4)			
<40	160′	168′	176′	BARRIER HEIGHT TRANSITION			
>40	160′	168′	176′	APPROVED CRASH CUSHION			

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT				MINIMUM SHOULDER	BUFFER	MAXIMUM CHANNELI	ZER SPACING
POSTED SPEED	MINIMUM LA	NE TAPER LENGT	H (L) (3)	TAPER LENGTH (T1)	LENGTH	THROUGH	THROUGH
MPH	10′	11′	12′	BASED ON 10' SHOULDER	FT	TAPER	WORK AREA
0-35	205′	225′	245′	70′	280'	35 ′	40′
40-45	450′	495′	540′	150′	400′	40′	80′
50-55	550′	605′	660′	185′	560′	50′	80′
60-70	700′	770′	840′	235′	840′	60′	120′

EPG TABLE 616.12 RECOMMENDED MAXIMUM SPEED REDUCTIONS						
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)					
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION					
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH					
HEAD-TO-HEAD ON MULTILANE	10 MPH					

SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.

LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

GENERAL NOTES:

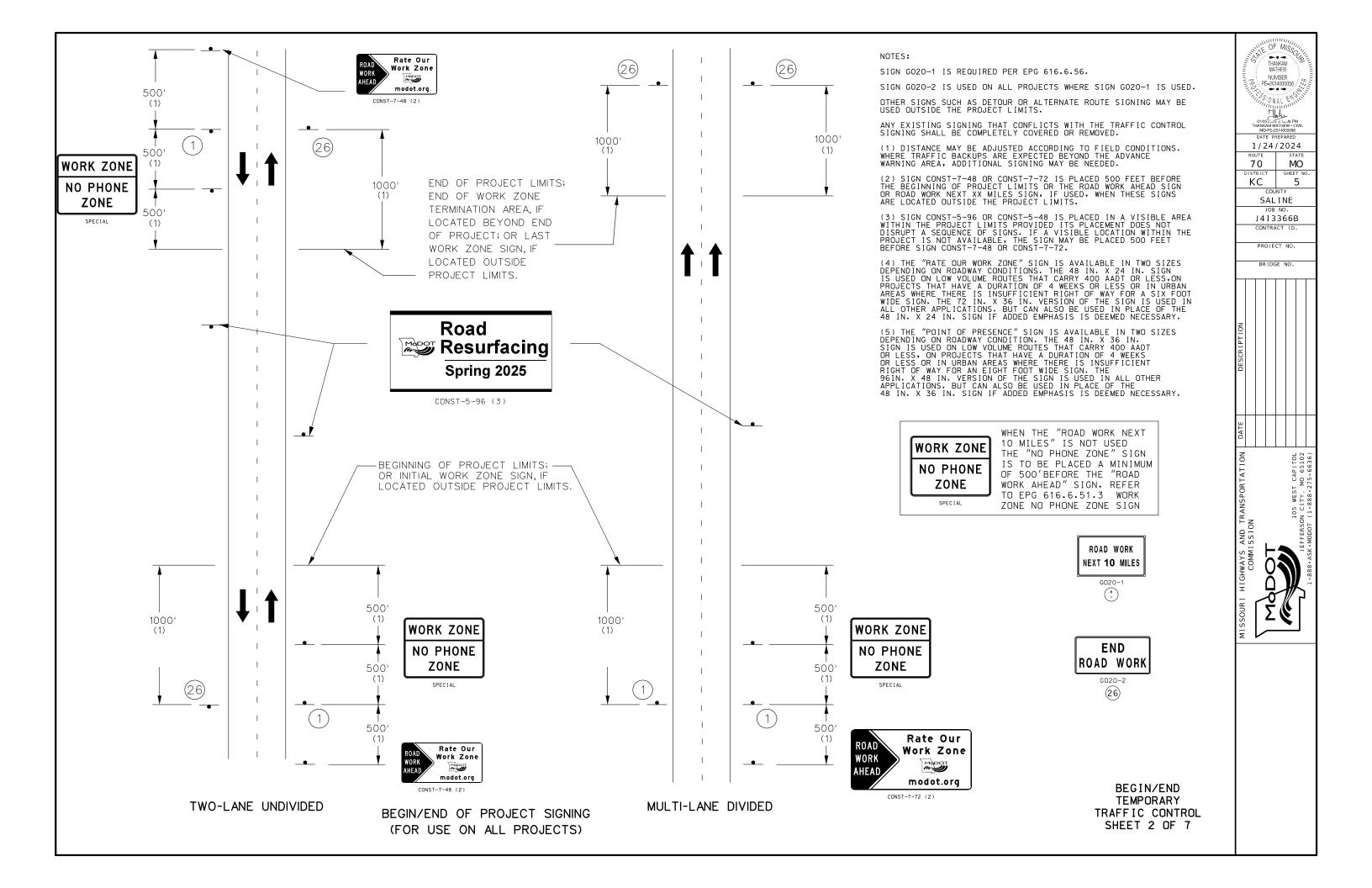
- 1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
- 2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- 3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- 4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- 5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.
- 6. SIGN SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FEILD CONDITIONS.

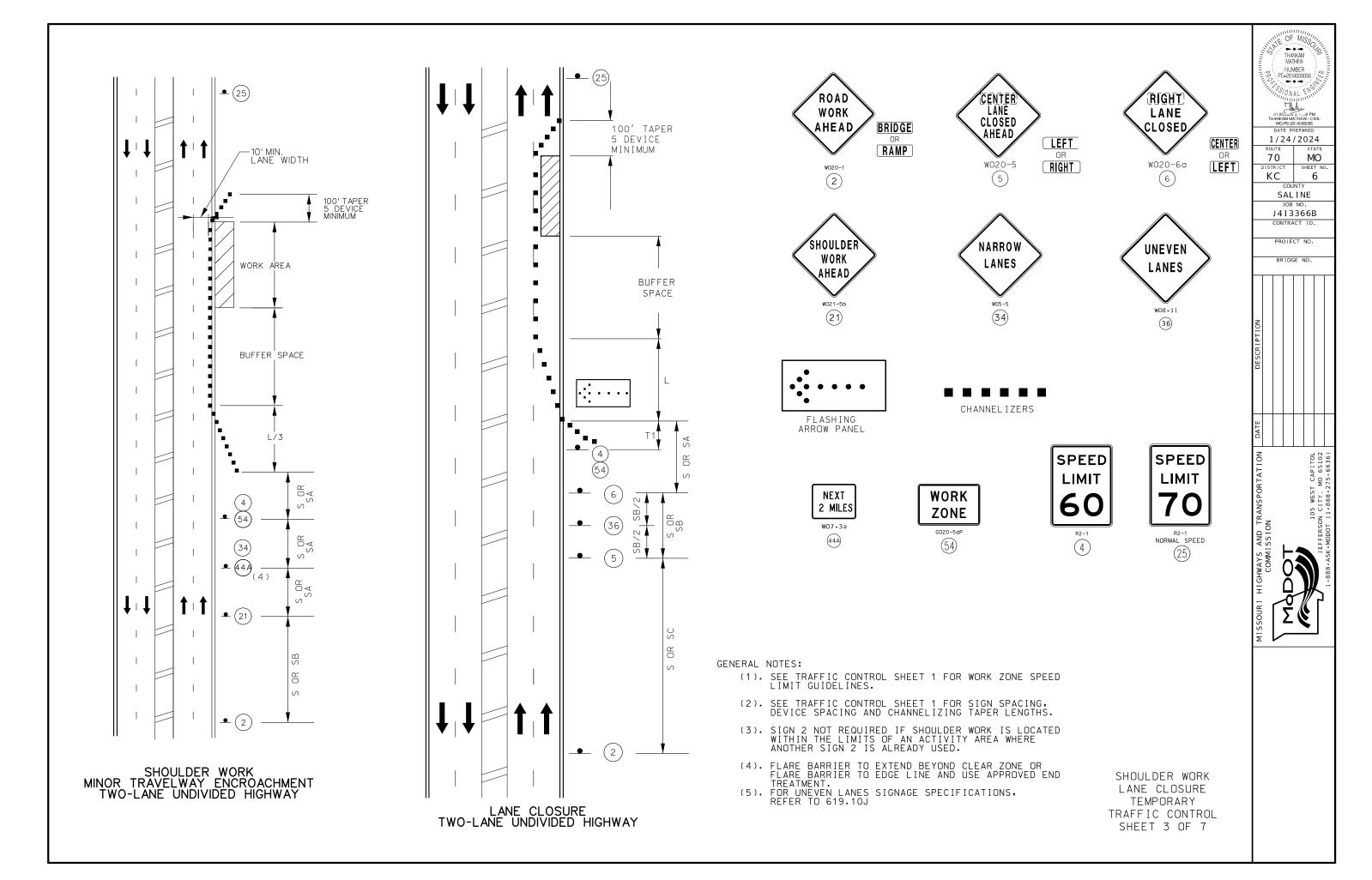
SPACING TEMPORARY TRAFFIC CONTROL SHEET 1 OF 7 THANKAM MATHEW MATHEW MATHEW MATHEW NUMBER STATE PROPERTY OF THE PREPARED 1/24/2024 ROUTE STATE 70 MO
DISTRICT SHEET NO. KC 4

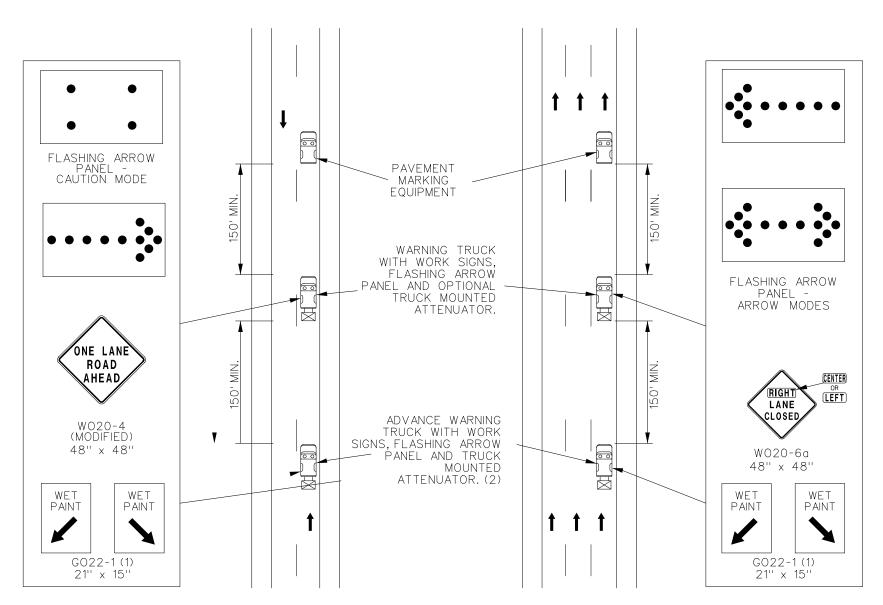
COUNTY SAL I NE JOB NO. J 413366B
CONTRACT ID.

PROJECT NO.

BRIDGE NO.







TWO LANE UNDIVIDED HIGHWAY

MULTI-LANE DIVIDED HIGHWAY

MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC

NOTES:

ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROFLECTIVE SHEETING.

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

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

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

- (1). WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION. A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.
- (2). ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

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

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED, WHEN MORE THAN ONE LANE IS CLOSED A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

THANKAM MATHEM NUMBER PE-2014000056.

DATE PREPARED 1/24/2024

ROUTE TO MO SHEET NO. KC 7

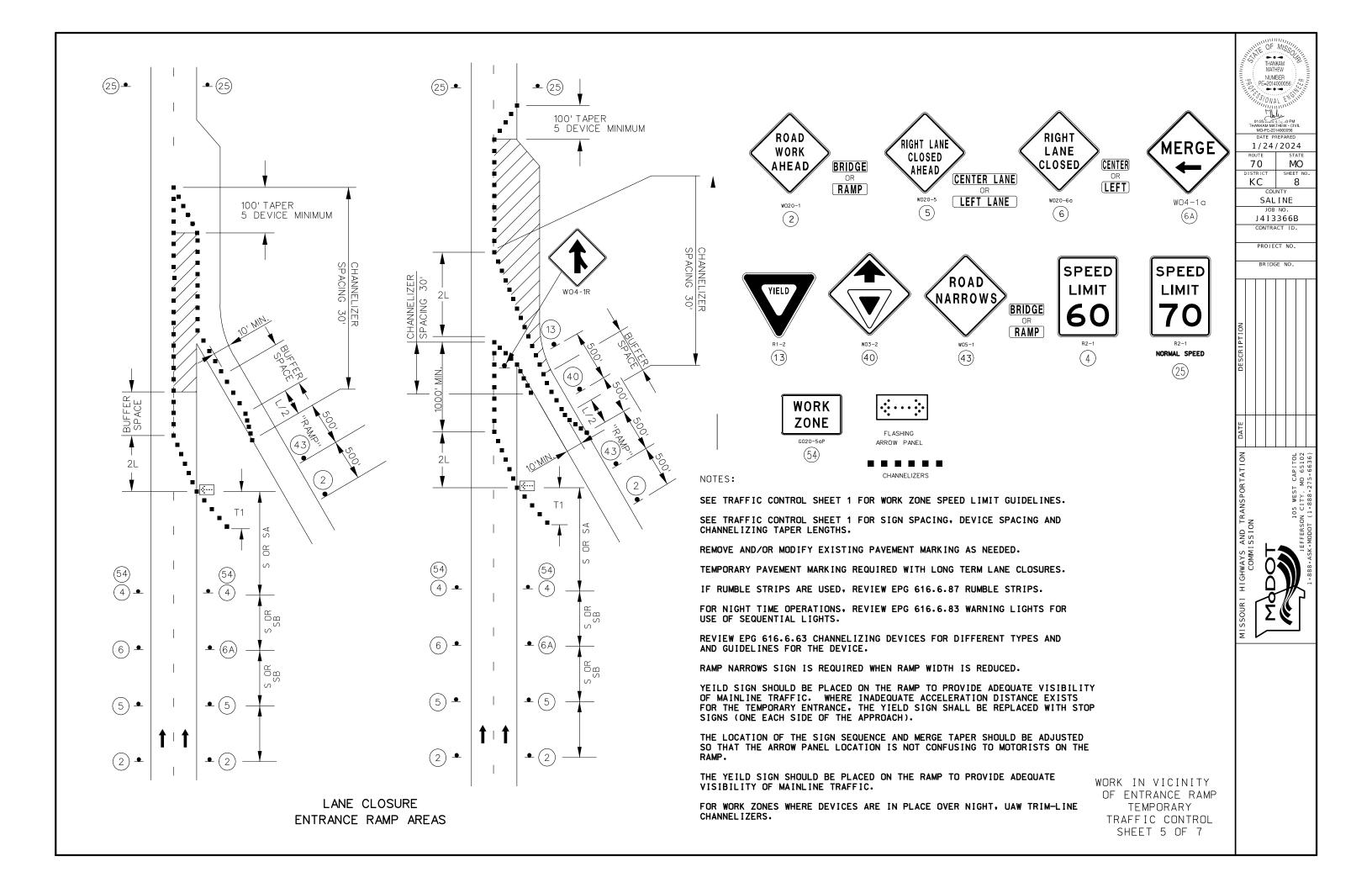
COUNTY SAL INE JOB NO. J413366B

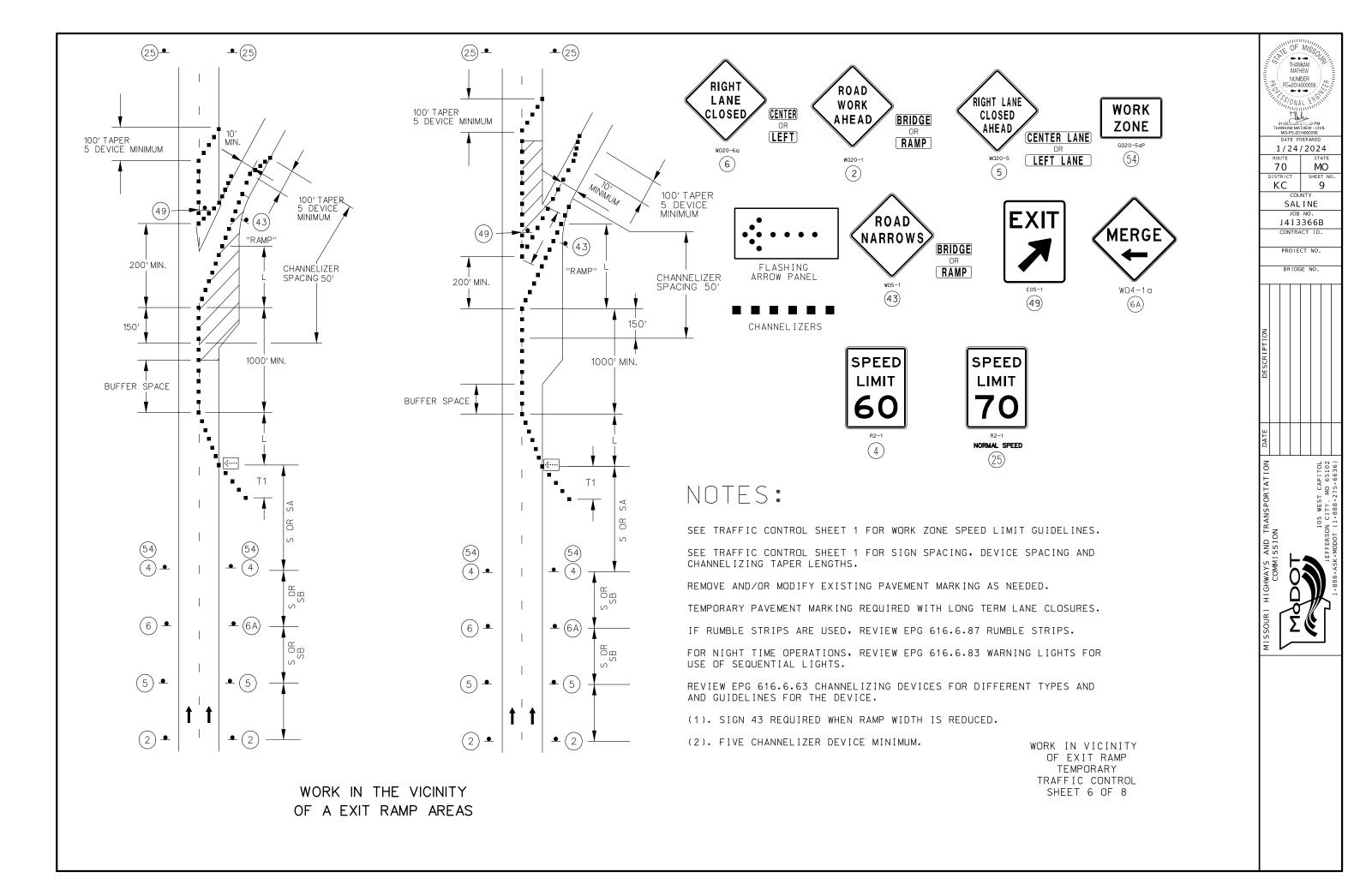
CONTRACT ID.

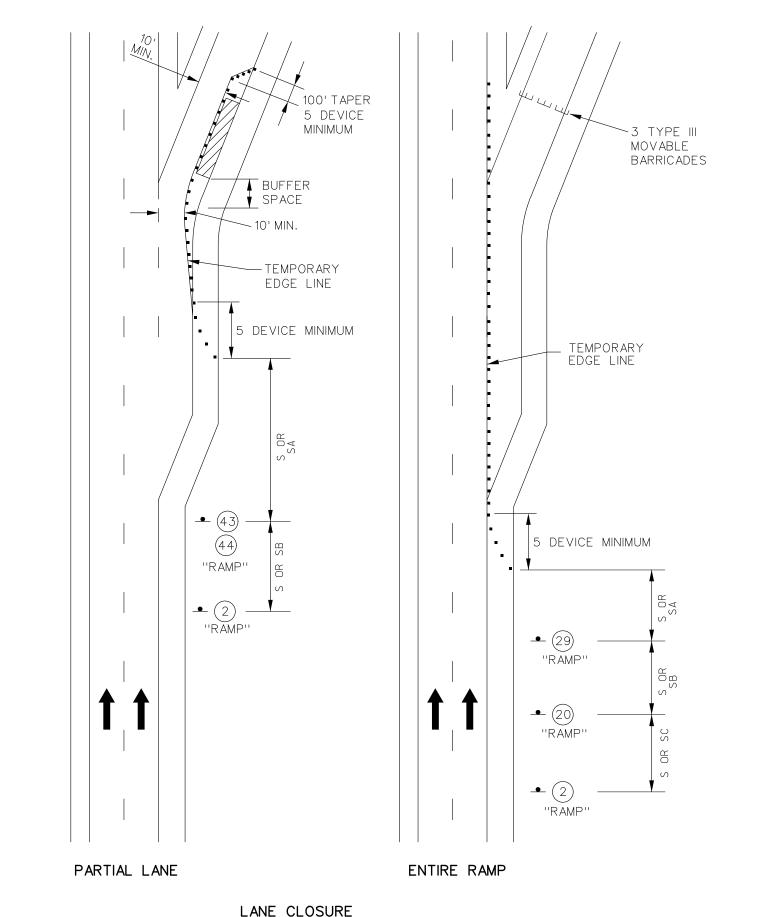
PROJECT NO.

BRIDGE NO.

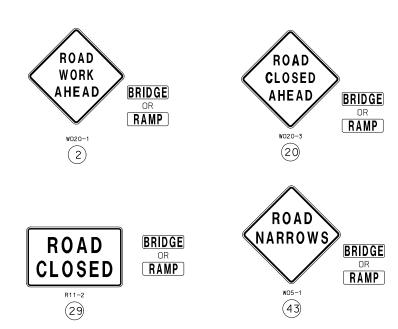
CENTERLINE AND/OR LANE LINE STRIPING ON MULTI-LANE UNDIVIDED HIGHWAYS TEMPORARY TRAFFIC CONTROL SHEET 4 OF 7

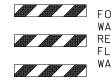






PARTIAL AND TOTAL RAMP CLOSURE





FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCED WARNING RAIL SYSTEM



THANKAM MATHEW NUMBER PE-2014000056 THE SOLONAL ENG

01/25/2024 4.15-25 PM THANKAM MATHEW - CIVI

1/24/2024

SALINE

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CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

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

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND AND GUIDELINES FOR THE DEVICE.

> PARTIAL OR TOTAL EXIT RAMP CLOSURE TEMPORARY TRAFFIC CONTROL SHEET 7 OF 7