DESIGN DESIGNATION

A.A.D.T. - 2023 = 3.715A.A.D.T. - 2043 = 4.529D.H.V. = 9%

V = 55/50/45/35/25 M.P.H.

D = 52.6% / 47.4% (N/S)

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO NEW RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS

	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER	0000	
UTILITIES FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- F0	-F0 -0TV -UTV -0T -UT -0E -S -SS -6 -W
MANHOLE	HYD.	€
FIRE HYDRANT	wv C	ĵ
WATER VALVE	C	€
WATER METER)
DROP INLET		
DITCH BLOCK	SIGN	=
GROUND MOUNTED SIGN	3101	_
LIGHT POLE	_L	_
H-FRAME POWER POLE		-
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED V X X	· ——
BENCHMARK	∞≪)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

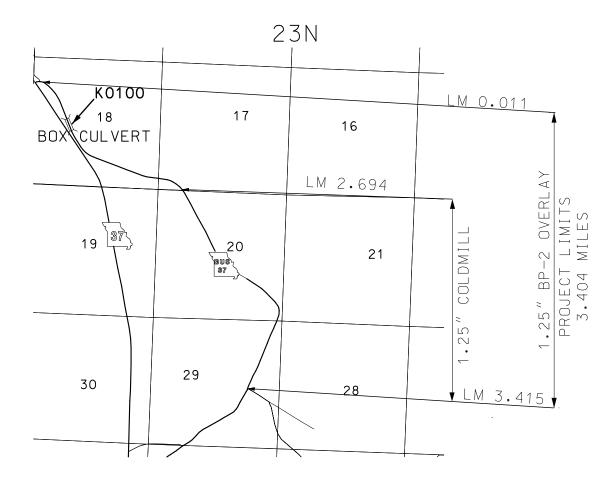
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY



27W

BARRY COUNTY



NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAMINS 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) (5 SHEETS)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4-5
TRAFFIC CONTROL SHEETS (TC)	6-10

DARI RAY (NUM PE-200 07-31-202 DARIEL RAY MCPE-202	3 14:53:30 COOK - CIVIL 05000971
	2023
BU37	STATE MO
DISTRICT	SHEET NO.
BAF	
J7P3	NO. 3437
CONTRA	CT ID.

	BR	IDO	EΝ	۱0،		
DESCRIPTION						
DATE						
N				_	02	(9

LENGTH OF PROJECT

BEGINNING OF PROJECT LOG MILE: 0.011 END OF PROJECT LOG MILE: 3.415 17973.12 FEET APPARENT LENGTH

EQUATIONS AND EXCEPTIONS:

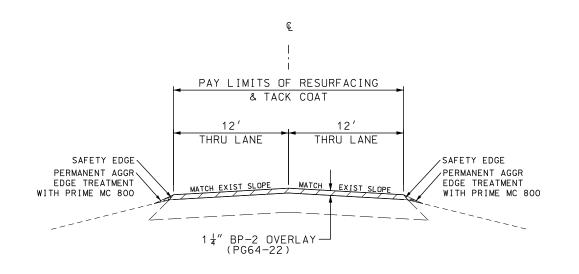
NONE



TOTAL CORRECTIONS 17973.12 FEET NET LENGTH OF PROJECT 17973.12 FEET STATE LENGTH 3.404 MILES FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

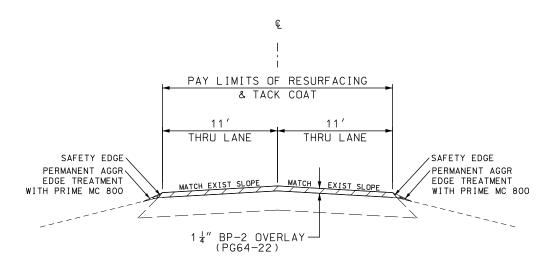
O ACRES

REVISED: 5-11-2022



ROUTE BUS 37

LOG MILE 0.011 TO LOG MILE 0.439



ROUTE BUS 37

LOG MILE 0.439 TO LOG MILE 2.694

LANE WIDTH NOTED IS TYPICAL LANE WIDTH.
ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

SURFACE PLACEMENT - ONE PASS PER LANE NO S.E. CORRECTION

ASPHALT FACTORS

COMBINED FACTOR

<u>COMBINED FACTOR</u> <u>% AC</u>

BP-2 (PG64-22) 1.960 TONS/CY 5.6

TACK COAT

COLDMILLING 0.08 GAL/SY

OVERLAY 0.10 GAL/SY

PRIME LIQUID ASPHALT MC 800

PERMANENT AGGREGATE
EDGE TREATMENT

0.25 GAL/SY

BITUMINOUS FOG SEAL

FOG SEAL MC 800

0.20 GAL/SY

IRREGULARITIES: 75 TONS/MI



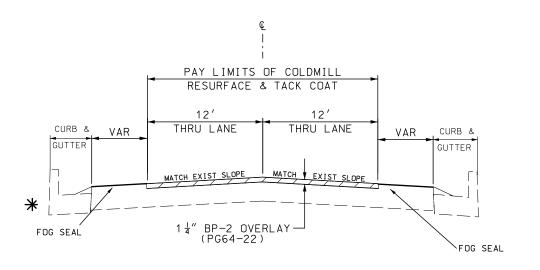
ISSOURI HIGHWAYS AND TRANSPORTATION DATE COMMISSION

MADOT

105 WEST CAPITOL

JEFFERSON CITY: MG 65102

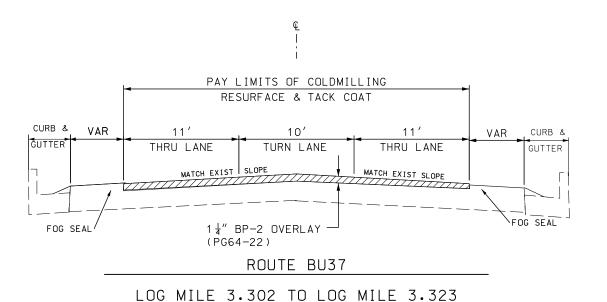
TYPICAL SECTIONS SHEET 1 OF 6



ROUTE BU37

LOG MILE 2.694 TO LOG MILE 3.302 LOG MILE 3.323 TO LOG MILE 3.415

* NOTE: LEFT CURB AND GUTTER STARTS AT 2.820



LANE WIDTH NOTED IS TYPICAL LANE WIDTH. ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

> SURFACE PLACEMENT - ONE PASS PER LANE NO S.E. CORRECTION

REVISED: 5-11-2022

ASPHALT FACTORS

COMBINED FACTOR

5.6

0.10 GAL/SY

BP-2 (PG64-22) 1.960 TONS/CY TACK COAT

0.08 GAL/SY

OVERLAY

PRIME LIQUID ASPHALT MC 800

PERMANENT AGGREGATE EDGE TREATMENT

0.25 GAL/SY

BITUMINOUS FOG SEAL

FOG SEAL MC 800

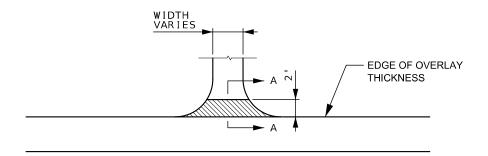
COLDMILLING

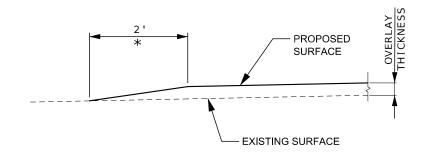
0.20 GAL/SY

IRREGULARITIES: 75 TONS/MI

DARRELL RAY COOK NUMBER 20050009 7/28/2023 BU37 MO SHEET NO SW BARRY JOB NO. J7P3437 CONTRACT ID. PROJECT NO. BRIDGE NO.

TYPICAL SECTIONS SHEET 2 OF 6



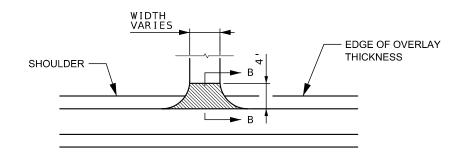


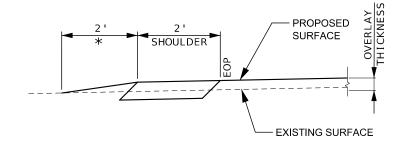
SECTION A-A

TYPICAL ENTRANCE - NO SHOULDER (FIELD, PRIVATE OR COUNTY ROAD) *TAPER AT 1:1 FOR FIELD ENTRANCE

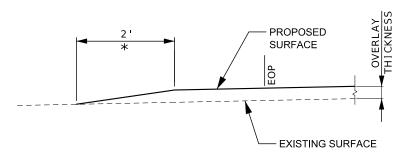
NOTE: 4 TONS GRAVEL A OR CRUSHED STONE CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.





AGGREGATE & EARTH ENTRANCES



ASPHALT & CONCRETE ENTRANCES

SECTION B-B

TYPICAL ENTRANCE - EXIST/NEW SHOULDER (FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTES: DO NOT BUILD 2' MODIFIED A3 SHOULDERS ACROSS CONCRETE OR ASPHALT ENTRANCES, STREETS OR ROADS.

4 TONS GRAVEL A OR CRUSHED STONE B CALCULATED PER ENTRANCE.

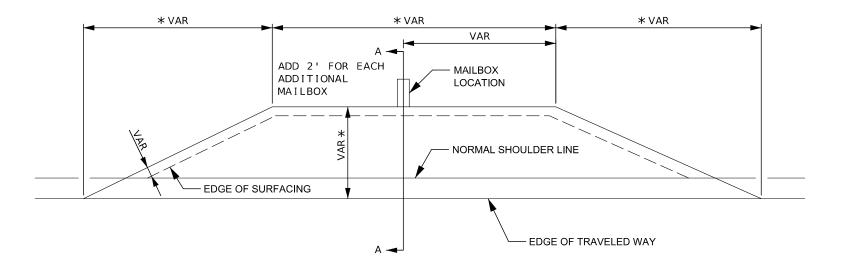
6 TONS CALCULATED PER COUNTY ROAD.

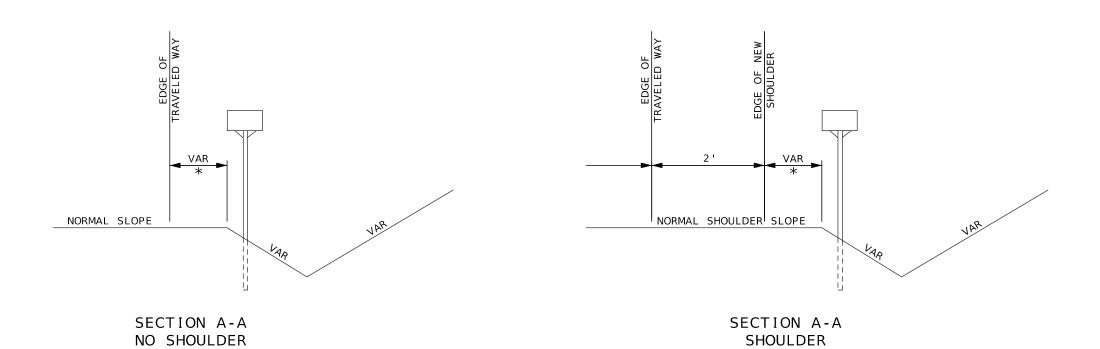
	LH	MOT HOT GOOD	L	L	ŀ	L	Ĺ	L				
ISSOURI HIGHWAYS AND TRANSPORTATION	N DAIE	DESCRIPTION				-			•		ATTITUTE.	
COMMISSION						-	ROI BU		DA DA		SPAO	
						W	37	DAT 1/2	07-3 RREL MO	88	PE	XE XE
			IDO		AF JOB	cou		E PI	u	0 N	DAR RAY NUN -200	ÖF
					NO			REPA	R		RELL COOK (BER (5000	M/
105 WEST CAPITOL				37 ID		2		RED D2	4:07 0K - C 0971	IIII ENG		11111 SSC
JEFFERSON CITY, MO 65102						_	ATE O T NI	3	IVIL	IIII	833.	
1-888-ASK-MODOT (1-888-275-6636)							٦.		le_		WHITHIN WA	÷.

NOTE: MAILBOX TURNOUT QUANTITIES BASED ON 2' WIDTH AND 15' LENGTH. ADD 2' IN LENGTH PER ADDITIONAL MAILBOX AT SAME LOCATION, AS APPROVED BY THE ENGINEER.

TYPICAL MAILBOX TURNOUT

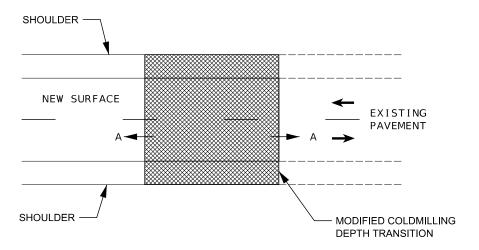
*AS APPROVED BY THE ENGINEER



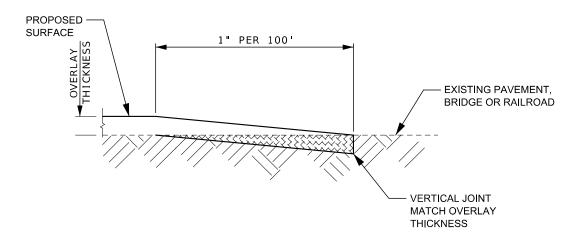


TYPICAL SECTIONS SHEET 4 OF 6

DATE PREPARED 7/28/2023 BU37 MO DISTRICT BARRY JOB NO.
J7P3437
CONTRACT ID. PROJECT NO. BRIDGE NO.



MAINLINE, BRIDGE, AND RAILROAD PLAN



SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, BRIDGE, OR RAILROAD

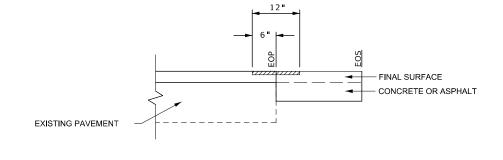
NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.

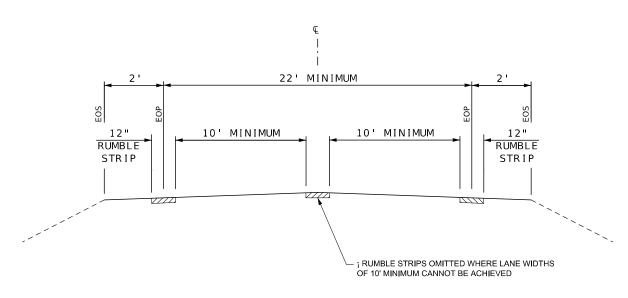


RUMBLE STRIPS FOR 2' MODIFIED A3 SHOULDERS

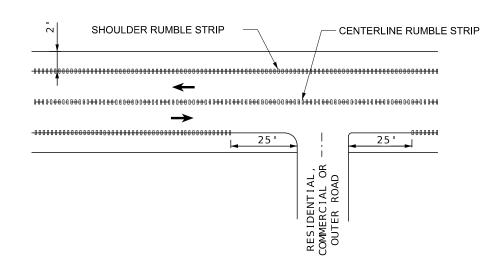
AS APPROVED BY THE ENGINEER, A 6" MINI RUMBLE STRIP MAY BE USED WHERE A 12" RUMBLE STRIP DOES NOT FIT.

RUMBLE STRIP DETAILS





INTERSECTION RUMBLE STRIP LAYOUT



DARRELL RAY COOK NUMBER PROJECT NO.

DESCRIPTION

BRIDGE NO.

IISSOURI HIGHWAYS AND TRANSPORTATI
COMMISSION

105 WEST CAPIT

168 WEST CAPIT

TYPICAL SECTIONS SHEET 6 OF 6 MOBILIZATION
LUMP SUM = 1

CONTRACTOR FURNISHED
STAKING & SURVEYING
LUMP SUM = 1

		1 -	.25" ASI	PHALTIC CONCRETE			
				BP-2 (PG70-22)	TACK @	TACK @	
LOG LOG		LENGTH	WIDTH	@ 1.960 TONS/CY	0.08 GAL/SY	0.10 GAL/SY	
MILE TO MILE	LOCATION	(FT)	(FT)	(TON)	(GAL)	(GAL)	REMARKS
0.011 - 0.439	BU37	2259.8	24	410.25	482.1		
0.439 - 2.694	BU37	11906.4	22	1981.36	2328.4		
2.694 - 3.302	BU37	3210.2	24	582.79		856.1	
3.302 - 3.323	BU37	110.9	32	26.84		39.4	
3.323 - 3.415	BU37	485.8	24	88.18		129.5	
							S.Y.
							IRREGULARITIES
	3.404 MILES			255.30			75 TONS/MILE
			TOTAL	3344.72	2810.5	1025.0	
			USE	3344.7	3835		

	PF	REFORME) MARKII	NG TAPE	
		WHITE	30"	24"	
		RT/LT	MID	WHITE	
LOG LOG		ARROW	BLOCKS	STOP BAR	
MILE TO MILE	LOCATION	(EA)	(EA)	(LF)	REMARKS
2.904 - 2.904	BUS 37		4		CROSS WALK BAR
3.286 - 3.286	BUS 37		5		CROSS WALK BAR
3.286 - 3.286	BUS 37			12	STOP BAR
3.326 - 3.326	BUS 37	1			CROSS WALK BAR
3.346 - 3.346	BUS 37		8		CROSS WALK BAR
3.366 - 3.366	BUS 37		9		CROSS WALK BAR
	TOTAL	1	26	12	
	USE	1	26 *	12	

STA	NDARD PAVE	EMENT MA	ARKING F	PAINT,	TYPE P BEADS
		4 "	4 "	4 "	
		SOLID	INT.	SOLID	
LOG LOG		WHITE	YELLOW	YELLOW	
MILE TO MILE	LOCATION	(FT)	(FT)	(FT)	REMARKS
0.000 - 0.260	BUS 37	2746		2746	DOUBLE YELLOW CL
0.260 - 0.320	BUS 37	634	79		
0.320 - 0.380	BUS 37	634	79		
0.380 - 0.519	BUS 37	1468	183	734	
0.519 - 1.616	BUS 37	11584		11584	DOUBLE YELLOW CL
1.616 - 1.837	BUS 37	2334	292	1167	
1.837 - 2.317	BUS 37	5069		5069	DOUBLE YELLOW CL
2.317 - 2.577	BUS 37	2746	343	1373	
2.577 - 2.856	BUS 37	2946		2946	DOUBLE YELLOW CL
2.856 - 2.962	BUS 37	1119	140	560	
2.962 - 3.262	BUS 37	3168	396	1584	
3.262 - 3.415	BUS 37	1616		1616	DOUBLE YELLOW CL
		•			
	TOTAL	36062	1513	29378	
	USE	36062	308	91	

					COLI	DMILLING		
						3" OR LESS	MODIFIED	
LOG		LOG		LENGTH	WIDTH	COLDMILLING	COLDMILLING	
MILE	TO	MILE	LOCATION	(FT)	(FT)	(SY)	(SY)	REMARKS
0.011	-	0.035	BU37	125.0	24		333.33	BEGINNING OF PROJECT
2.670	-	2.694	BU37	125.0	22		305.56	TRANS DOWN TO COLDMILL SECTION
2.694	-	3.302	BU37	3210.2	22	7847.25		1.25" COLDMILL
3.302	-	3.323	BU37	110.9	32	394.24		1.25" COLDMILL
3.323	-	3.391	BU37	360.7	24	961.95		1.25" COLDMILL
3.391	-	3.415	BU37	125.0	24		333.33	END OF PROJECT
l								
					TOTAL	9203.44	972.22	
					USE	9203	972	

	PERMAN	ENT AGG	REGATE	EDGE TREAT	MENT	
				PERMANENT	PRIME	
				AGGREGATE	MC800 @	
				TREATMENT @	0.25	
LOG LOG		LENGTH	WIDTH	200 TONS/MILE	GAL/SY	
MILE TO MILE	LOCATION	(FT)	(FT)	(TONS)	(GAL)	REMARKS
0.011 - 2.694	BUS 37	14166.24	2	268.3	787.0	LT EOS
0.011 - 2.694	BUS 37	14166.24	2	268.3	787.0	RT EOS
			TOTAL	536.6	1574.0	
			USE	536.6	1574	

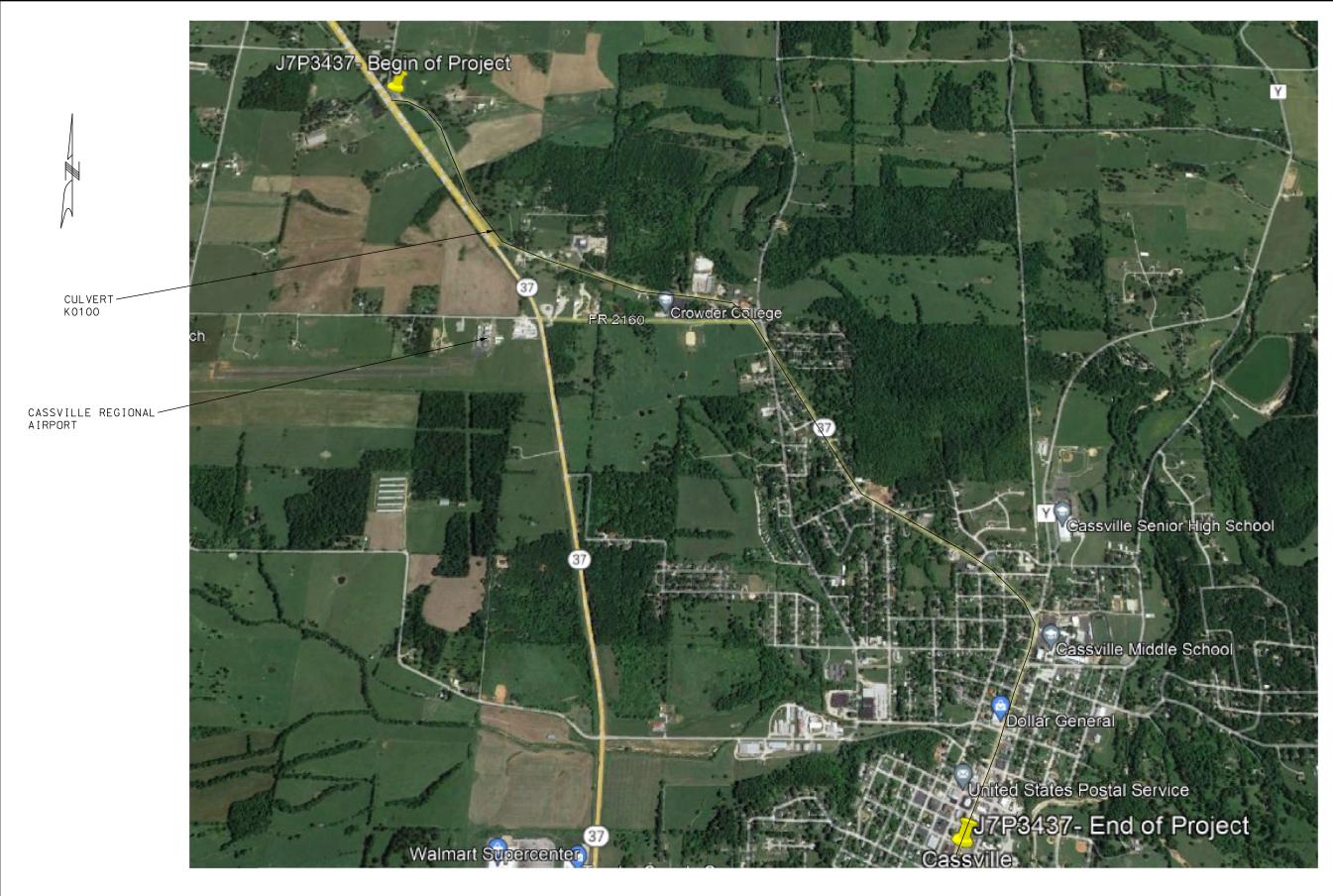
	BITUMI	NOUS SHOUL	DER RUMBLE	STRIP
LOG	LOG		RUMBLE STRIP	
MILE	TO MILE	LOCATION	(STA)	REMARKS
0.011	- 1.728	BU 37	90.7	LT EOP
0.011	- 1.728	BU 37	90.7	CENTERL I NE
0.011	- 1.728	BU 37	90.7	RT EOP
		TOTAL	272.0	
		USE	272.0	

			BITUMI	NOUS FO	G SEAL	
					FOG SEAL	
LOG LO	OG		LENGTH	WIDTH	0.20 GAL/SY	
MILE TO MI	ILE	LOCATION	(FT)	(FT)	(GAL)	REMARKS
2.694 - 3.4	415	BU 37	3806.9	8	676.8	FOG SEAL SHOULDER
				TOTAL	676.8	
				USE	677	

SUMMARY OF QUANTITIES SHEET 1 OF 2

AYS AND TRANSPORTATION	DATE	DESCRIPTION				_	Е			111111	THIII.	
NMISSION						S	ROI 3 U	7	O	BONNIN	11/5	
			BR		J.		JTE 37	DAT	07-3 RREL MO-	PE	ALE	11111
			IDO	DJE	BA JOB 7P TRA	cou	7	E PI	1-202 I BAN		DAR RAY	OF
44			E N		_{NO} 34	NTY		REPA	3 14:5 (COC 00500	1BER 5000	RELL COOl	Ш., М/,
105 WEST CAPITOL			10,	ID NO.	37		М		. C 4:50 K - C	971 1/10	(, <u></u>	11/1/
JEFFERSON CITY, MD 65102						3	O I	3	IVIL	11/WEER	2	<i>'</i> //.
-ASK-MODOT (1-888-275-6636)						J.			L	HIIII.	IIIIIIIIIII	
		CHILD A CHIND VILLAGIOUS IN THE CALL TO THE WAS TRADED VILLAGE AND A TE	SIDE	TLLL	UV	L	10111	DONIT	\ \ \ \		. 4 0 014 4	<u>ا</u> ا

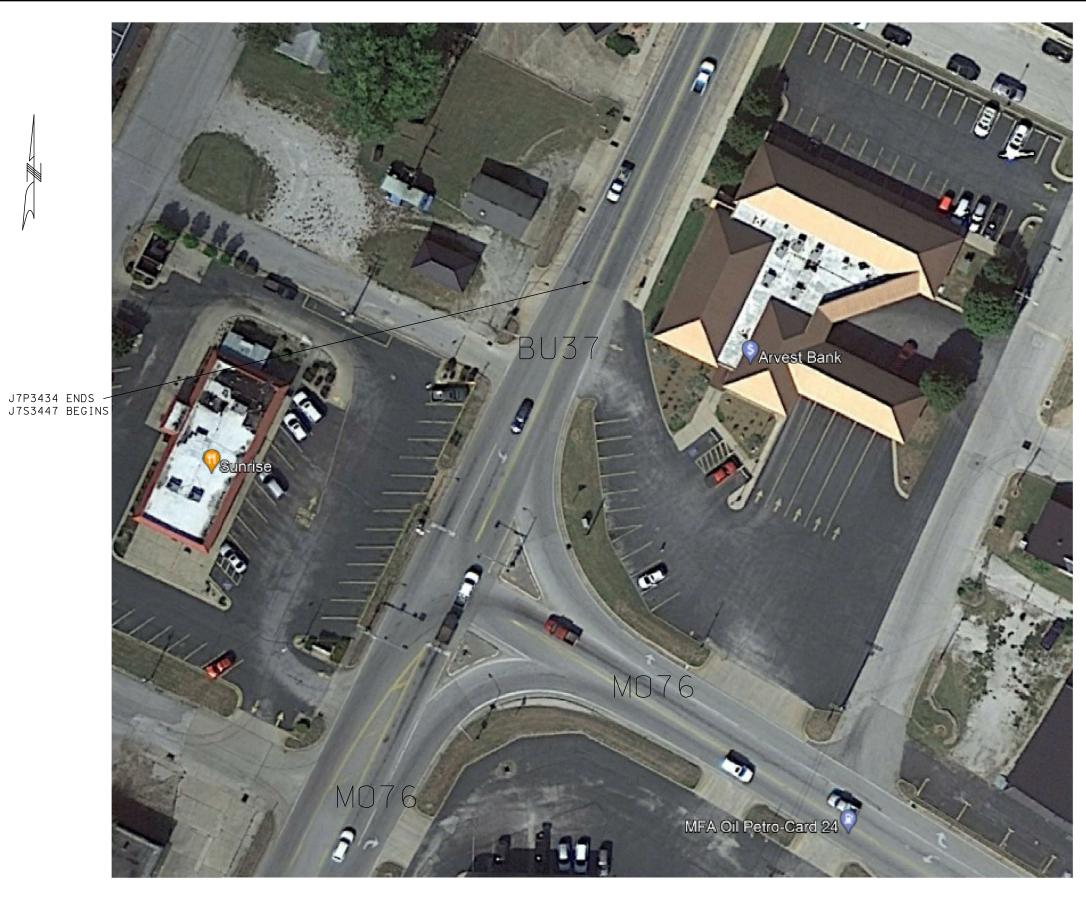
												PROJ	ECT DONE IN SS10 EFFECTIVE: 04-01-2021	Millianini.
		TOTAL QTY TO	TALSIGN					QTY	TOTALS	IGN		1	T BONE IN SOIL ENLESTIVES OF STEEL	OF MISSOUR
	SIZE AREA	QTY AREA RELOCRE	_oc num.		[] !	SIZE ARE	A QTY TO	TALRELO	CRELOC	IUM.				I ≥ ∽ DARRELL
SIGN	IN. SQ.FT.		FT.		SIGN	IN. SQ.F	T. EACH SQ.	FT. EACH	SQ.FT.		I ITEM	TOTAL		RAY COOK NUMBER
		WARNING SIGNS		DESCRIPTION	 		GUIDE :			DESCRIPTION	NUMBER		DESCRIPTION	PE-2005000971
W∩1-1I	48X48 16.00			TURN (SYMBOL LEFT ARROW)	E05-1	36X48 12.0		310113		GORE EXIT	6122008	+	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	THE SOUNAL ENGLISHED
	48X48 16.00			TURN (SYMBOL RIGHT ARROW)	-	48X36 12.0				EXIT OPEN	6122009	-	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	Donall R Cook
WO1-2L	48X48 16.00			CURVE (SYMBOL LEFT ARROW)	E05-2a	48X36 12.0	00			EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	07-31-2023 14:55:42 DARRELL RAY COOK - CIVIL
WO1-2R	48X48 16.00			CURVE (SYMBOL RIGHT ARROW)	GD20-1	60X24 10.C	00 2 20.	.00		ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	MO-PE-2005000971
WO1-3L	48X48 16.00			REVERSE TURN (SYMBOL LEFT ARROW)	-	48X24 8.0		.00		END ROAD WORK	6122014	-	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	DATE PREPARED 7/28/2023
	48X48 16.00			REVERSE TURN (SYMBOL RIGHT ARROW)	-	36X18 4.5		00		PILOT CAR FOLLOW ME	6122017	-	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	ROUTE STATE
WO1-4L	48X48 16.00			REVERSE CURVE (SYMBOL LEFT ARROW)	1 —	42X30 8.7		50		PILOT CAR IN USE WAIT & FOLLOW	6122019	-	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	BU37 MO
WO1 -4R	48X48 16.00			REVERSE CURVE (SYMBOL RIGHT ARROW)	-	18X12 1.5				PILOT CAR IN USE WAIT & FOLLOW WORK ZONE (PLAQUE)	6122020 6122030	-	REPLACEMENT SAND BARREL IMPACT ATTENUATOR (RELOCATION)	DISTRICT SHEET NO.
	48X48 16.00 48X48 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	-	24X18 3.0		• 00		END DETOUR	61230004	-	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)	SW 3
	48X48 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	-	48X36 12.0				DETOUR (LEFT ARROW)	6161008	-	ADVANCED WARNING RAIL SYSTEM	BARRY
	48X48 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	-	48X36 12.0				DETOUR (RIGHT ARROW)	6161012	-	BUOYS (BOATS KEEP OUT)	JOB NO.
WO1-6	60X30 12.50			HORIZONTAL ARROW (SYMBOL)	-	48X12 4.0				STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	J7P3437
WO1-6a	72X36 18.00			HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18 6.0	0			DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	CONTRACT ID.
WO1-7	60X30 12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18 6.0	0			DETOUR (ARROW RIGHT)	6161025	300	CHANNELIZER (TRIM LINE)	PROJECT NO.
WO1-7a	72X36 18.00			DOUBLE HEAD HORIZ, ARROW (SYMBOL ON PERM, BARR,)				GULATOR	Y SIGNS		6161030	-	TYPE III MOVEABLE BARRICADE	CHOOLET NO.
WO1-8	18X24 3.00			CHEVRON (SYMBOL)	-	48X48 13.2				STOP	6161033	-	DIRECTION INDICATOR BARRICADE	BRIDGE NO.
W01-8a	30X36 7.50			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	-	48TRI. 6.9				YIELD TO CHICAGO TRAFFIC (B) AQUE)	6161040	2	FLASHING ARROW PANEL	
W03-1	48X48 16.00			STOP AHEAD (SYMBOL)	-	36X36 9.0			+	TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER	
W03-2 W03-3	48X48 16.00 48X48 16.00			YIELD AHEAD (SYMBOL) SIGNAL AHEAD (SYMBOL)	-	30X12 2.5		.00		ALL WAY (PLAQUE) SPEED LIMIT XX	6161051 6161052		WARNING LIGHT, TYPE A WARNING LIGHT, TYPE B	
W03-3		21 336.00		BE PREPARED TO STOP	-	48X48 16.0		• 50	+ +	NO RIGHT TURN (SYMBOL)	6161052	-	WARNING LIGHT, TYPE B WARNING LIGHT, TYPE C	
W03-4	48X48 16.00			SPEED LIMIT AHEAD	-	48X48 16.0				NO LEFT TURN (SYMBOL)	6161055	-	SEQUENTIAL FLASHING WARNING LIGHT	_
W04-1L	48X48 16.00			MERGE (SYMBOL FROM LEFT)	-	36X36 9.0				NO TURNS	6161070	-	TUBULAR MARKER	
	48X48 16.00			MERGE (SYMBOL FROM RIGHT)	-	48X48 16.0				NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	H
	48X48 16.00			MERGE (ARROW SYMBOL)	-	30X30 6.2				LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN,	
W04-1aR	48X48 16.00			MERGE (ARROW SYMBOL)	1 —	30X30 6.2	5			RIGHT LANE MUST TURN RIGHT	6161096		COMMISSION FURNISHED/RETAINED	ES(
W05-1	48X48 16.00			ROAD/BRIDGE/RAMP NARROWS	-	36X48 12.0				DO NOT PASS			CHANGEABLE MESSAGE SIGN W/O COMM.	
WO5-3	48X48 16.00			ONE LANE BRIDGE	-	36X48 12.0		.00		PASS WITH CARE	6161098	4	INTERFACE, CONTRACTOR FURNISHED/RETAINED	
W05-5	48X48 16.00			NARROW LANES	-	36X48 12.0				KEEP LEFT (HORIZONTAL ARROW)			CHANGEABLE MESSAGE SIGN WITH COMM.	
W06-1 W06-2	48X48 16.00 48X48 16.00			DIVIDED HIGHWAY END (SYMBOL)	-	36X48 12.0				KEEP RIGHT (HORIZONTAL ARROW) DO NOT ENTER	6161099	-	INTERFACE, CONTRACTOR FURNISHED/RETAINED	
W06-2	48X48 16.00			DIVIDED HIGHWAY END (SYMBOL) TWO WAY TRAFFIC (SYMBOL)	-	30X30 6.2 36X24 6.0				WRONG WAY	6162000 <i>A</i> 6162002	-	WORK ZONE TRAFFIC SIGNAL SYSTEM TEMPORARY LONG-TERM RUMBLE STRIPS	
W07-3a	30X24 5.00	,		NEXT XX MILES (PLAQUE)	-	54X18 6.7				ONE WAY ARROW (LEFT)	0102002		TEMPORARY LONG PERMINGMBLE STRIPS	ATE
WO8-1	48X48 16.00			BUMP	-	54X18 6.7				ONE WAY ARROW (RIGHT)			TEMPORARY TRAFFIC BARRIER	
WO8-2	48X48 16.00			DIP	-	24X30 5.0				ONE WAY (LEFT)	61736000		CONTRACTOR FURNISHED/RETAINED	Z
WO8-3	48X48 16.00			PAVEMENT ENDS	R6-2R	24X30 5.0	0			ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER	ATION APITOL 65102
WO8-4	48X48 16.00			SOFT SHOULDER	R9-9	24X12 2.0	0			SIDEWALK CLOSED	6173602E	3	CONTRACTOR FURNISHED/COMMISSION RETAINED	AP 68
WO8-5	48X48 16.00			SLIPPERY WHEN WET (SYMBOL)	1					SIDEWALK CLOSED AHEAD,	6174000 <i>A</i>		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	TRANSPORTA ON 105 WEST CAI
WO8-6	48X48 16.00			TRUCK CROSSING (WITH FLAGS)	R9-11L	24X18 3.0	0			(ARROW LEFT) CROSS HERE	6175010 <i>A</i>	١	RELOCATING TEMPORARY TRAFFIC BARRIER	SPC Y*
W08-6c	48X48 16.00			TRUCK ENTRANCE	{ '		_			SIDEWALK CLOSED AHEAD,			TEMPORARY TRAFFIC BARRIER	N S S S S S S S S S S S S S S S S S S S
W08-7	36X36 9.00			LOOSE GRAVEL	-	24X18 3.0				(ARROW RIGHT) CROSS HERE	6176000E	3	COMMISSION FURNISHED/RETAINED	15 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 °
	36X36 9.00 48X48 16.00			FRESH OIL/LOOSE GRAVEL LOW SHOULDER		24X36 6.0				STOP HERE ON RED (45° ARROW) ROAD CLOSED	6177000E		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED	I OI
		10 160.00		UNEVEN LANES		40,30 10.0	,0			ROAD CLOSED XX MILES AHEAD	6208064		TEMPORARY RAISED PAVEMENT MARKER	AND SSI
		0 6 96.00		NO CENTER LINE	R11-3a	60X30 12.5	50			LOCAL TRAFFIC ONLY	9029400		TEMPORARY TRAFFIC SIGNALS	
	48X48 16.00			GROOVED PAVEMENT	-	60X30 12.5				ROAD CLOSED TO THRU TRAFFIC	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	COMMS
	30X24 5.00			MOTORCYCLE (PLAQUE)	1	60X48 20.0				FINE SIGN				
	48X48 16.00			SHOULDER DROP-OFF (SYMBOL)	CONST-3X	56X12 4.6				SPEEDING/PASSING (PLATE)				HI CHI
	30X24 5.00			SHOULDER DROP-OFF (PLAQUE)					EOUS SIG					1 24 11/1
	42RND. 9.62			RAILROAD CROSSING	-		00 2 24	.00		POINT OF PRESENCE				MI SSOURI Z
	24X24 4.00			DOUBLE DOWN ARROW (SYMBOL)	1	96X48 32.0				POINT OF PRESENCE		1		S 4 &
	48X48 16.00			LOW CLEARANCE (SYMBOL)		48X24 8.0		00		RATE OUR WORK ZONE		1		
	24X18 3.00			LOW CLEARANCE (PLAQUE) OVERHEAD LOW CLEARANCE (FEET AND INCHES)			00 2 36		+ +	RATE OUR WORK ZONE WORK ZONE NO PHONE ZONE	J			Σ ν
	84X24 14.00 120X60 50.00			LOW CLEARANCE (FEET AND INCHES)	(CONST-8)	70770 12.0	2 24.	• 00	+ +	WORK ZOINE NO PHONE ZUNE				
	120X60 50.00			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD					+ +					
	30X30 6.25			ADVISORY SPEED (PLAQUE)	\Box				+ +					
	30X24 5.00			XXX FEET (PLAQUE)										
	30X24 5.00			X MILE (PLAQUE)										
WO20-1	48X48 16.00	30 480.00		ROAD/BRIDGE/RAMP WORK AHEAD										
	48X48 16.00			DETOUR AHEAD										
	48X48 16.00			ROAD CLOSED AHEAD	السيلا									
		4 64.00		ONE LANE ROAD AHEAD	616-10.			TAL						
	48X48 16.00			RIGHT/CENTER/LEFT LANE CLOSED AHEAD		JCTION S	IGNS 14	185	TOTAL					
	48X48 16.00			2 RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10		c		TOTAL					
	48X48 16.00			RIGHT/CENTER/LEFT LANE CLOSED	KELUCA	TED SIGN:	<u> </u>		0					
	36X36 9.00	4 64.00		FLAGGER (SYMBOL, WITH FLAGS) FRESH OIL	1									
1110/1-/	48X48 16.00			SHOULDER WORK AHEAD	1									
		<u> </u>			1									
WO21-5				IBLASTING ZUNE AHEAD										
WO21-5 WO22-1	48X48 16.00 42X36 10.50			BLASTING ZONE AHEAD TURN OFF 2-WAY RADIO AND PHONE	†								SUMMARY OF QUANTITIES	
WO21-5 WO22-1 WO22-2	48X48 16.00				-								SUMMARY OF QUANTITIES SHEET 2 OF 2	



DATE PREPARED 7/28/2023 BU37
DISTRICT
SW COUNTY BARRY JOB NO.
J7P3437
CONTRACT ID.

NOT TO SCALE

SPECIAL SHEET SHEET 1 OF 2



DATE PREPARED 7/28/2023 ROUTE BU37 DISTRICT SW COUNTY
BARRY
JOB NO.
J7P3437
CONTRACT ID.

NOT TO SCALE

SPECIAL SHEET SHEET 2 OF 2

REVISED: 4/18/2023 GENERAL NOTES: 1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED. DARRELL RAY COOK TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS. NUMBER SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE. ull R Coo TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL. ALL SIGNS, EXCEPT "RATE OUR WORK ZONES" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM 7/28/2023 THE ROADWAY DURING NON-WORKING HOURS. BU37 MΩ THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. DISTRICT SHEET NO 11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE SW 6 DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD. 12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED. **BARRY** 13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER. 14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). J7P3437 15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY. CONTRACT ID 16. CONTRACTOR SHALL COORDINATE WITH ADA PROJECT, JXXXXXX. PROJECT NO. BEGINNING OF PROJECT LIMITS; BRIDGE NO. OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS. END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA. IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE (59) (2A)* (56) PROJECT LIMITS. 500' (1) 500' (1) (4) 500' (1) 1000' (1) (61)(61) 500' (1) 500' (1) 500' (1) (4) 1000' (1) (2A) * (56) (59) (1) (26) Road TYPICAL BEGINNING AND END OF PROJECT (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED. (UNDIVIDED HIGHWAY) Resurfacing (2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED. WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS. Rate Our END Work Zone (3) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN ROAD WORK ROAD WORK THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT WORK DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN GO20-2 modot.org THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED (26) 500 FEET BEFORE SIGN CONST-7-72. CONST - 7 - 72 10 135 1 6

CONST-5-96 SH-FLAT SHEET; 3.000' Radius, 1.000' Border, White on, Blue; "Road", D; "Resurfacing', D; "Fall 2024', D Table of letter and object lefts

CONST-5P-60 SHF-FLAT SHEET FLUORESCENT; 1.500" Radius, No border, Yellow; "Completed as Promised" Black, D 65% spacing;

Completed as Promised

ROAD

WORK AHEAD

WO20-1

*****SIGN 2A WITH AWRS MUST

BE GROUND OR SKID MOUNTED.

CONST - 5 - 96

(61)(3)

NOT TO SCALE

TRAFFIC CONTROL

SHEET 1 OF 5

(56) (2)

ROAD WORK

NEXT XX MILES

GO20-1

(1)

(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF

WORK ZONE

NO PHONE

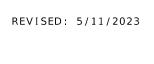
ZONE

CONST-8 (4)

500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

(5) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

(5)

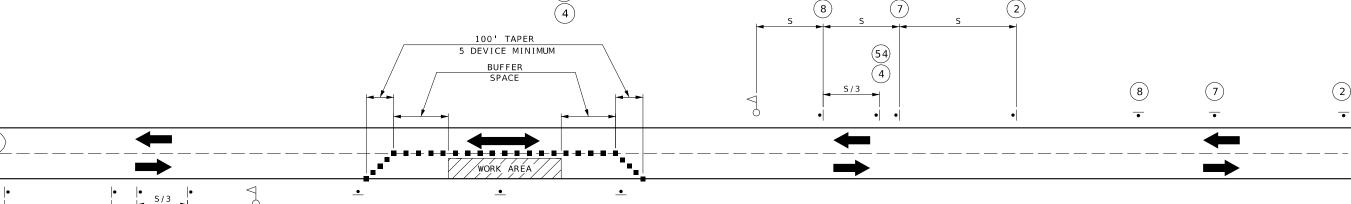


PILOT CAR FOLLOW ME GO20-4

(53)

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

(2)



(8)

WORK ZONE SPEED LIMIT = 35 MPH

WORK

ZONE

SPEED

LIMIT

R2-1

(54)

(7)

(54) (4) 2 (7)(8)

BRIDGE

RAMP

SET 1 SET 2 **ACTIVE** INACTIVE

(2)

ONE LANE

ROAD

AHEAD

WO20-4

7

WO20-7a

(8)

SET 3 **ACTIVE**

SET 4 INACTIVE

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

ROAD

WORK

AHEAD

WO20-1

(2)

- FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

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.

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/ WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING NOTES:

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

> SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

> > MOVING FLAGGER OPERATION (UNDIVIDED HIGHWAY)

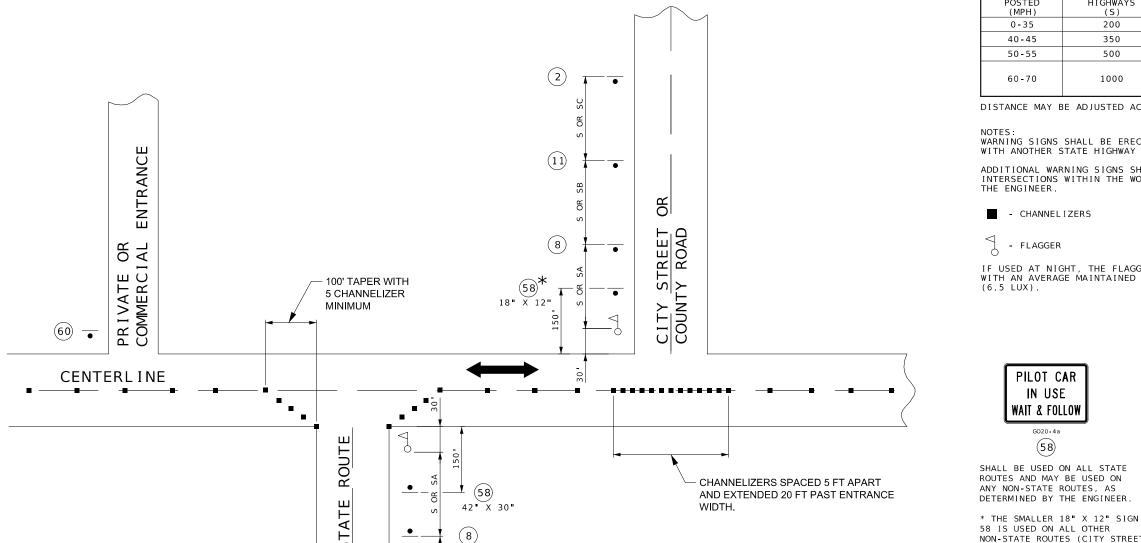
NOT TO SCALE

TRAFFIC CONTROL SHEET 2 OF 5

mell R Cool 07-31-2023 14:56:22 DARRELL RAY COOK - CIVIL MO-PE-2005000971 7/28/2023 <u>B</u>U37 MΩ SHEET NO SW BARRY J7P3437 CONTRACT ID PROJECT NO. BRIDGE NO.

DARRELL RAY COOK

SIDE ROADS ENTERING WORK ZONES



ROAD

WORK

AHEAD

WO20-1

2

PREPARED

WO3-4

(11)

STOP

(11)

SPEED	SIGN SPAC	ING (FT.)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA) - 1000 (SB) - 1500 (SC) - 2640

DISTANCE MAY BE ADJUSTED ACCORDING TO 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.

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES

DETERMINED BY THE ENGINEER.

58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.)

WO20-7a

8



24 X 18 (60)

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10

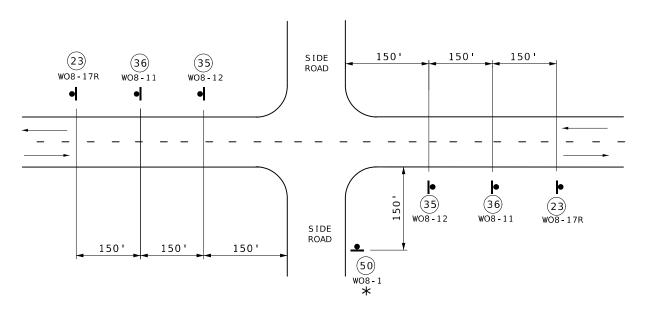
NOT TO SCALE

TRAFFIC CONTROL SHEET 3 OF 5

DARRELL RAY COOK Durell R Cook 07-31-2023 14:56:35 DARRELL RAY COOK - CIVIL MO-PE-2005000971 7/28/2023 BU37 MO SHEET NO SW 8 BARRY JOB NO. J7P3437 CONTRACT ID. PROJECT NO. BRIDGE NO.

SIGN SPACING FOR MAINLINE

(DETAIL SHOWN IS BASED ON A PROJECT MEETING ALL CONDITIONS: NO CENTER STRIPE, UNEVEN LANES, SHOULDER DROP-OFF AND BUMP.) WHEN BOTH UNEVEN LANES AND SHOULDER DROP-OFF SIGNS ARE USED, BOTH SIGHS SHALL STAY IN PLACE UNTIL BOTH CONDITIONS NO LONGER EXIST. IF ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP-OFF). THE SIGN SPACING SHALL BE AT 1 MILE INTERVALS.



SIGN SPACING AT SIDE ROAD INTERSECTIONS

* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10. UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.

REVISED: 4/25/2023





WO8-17R WO8-17p

SHOULDER

DROP-OFF

(23)





(36)

CENTER WO8 - 12

(35)

GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE STD. 620.10, SHEET 1 OF 5.

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.

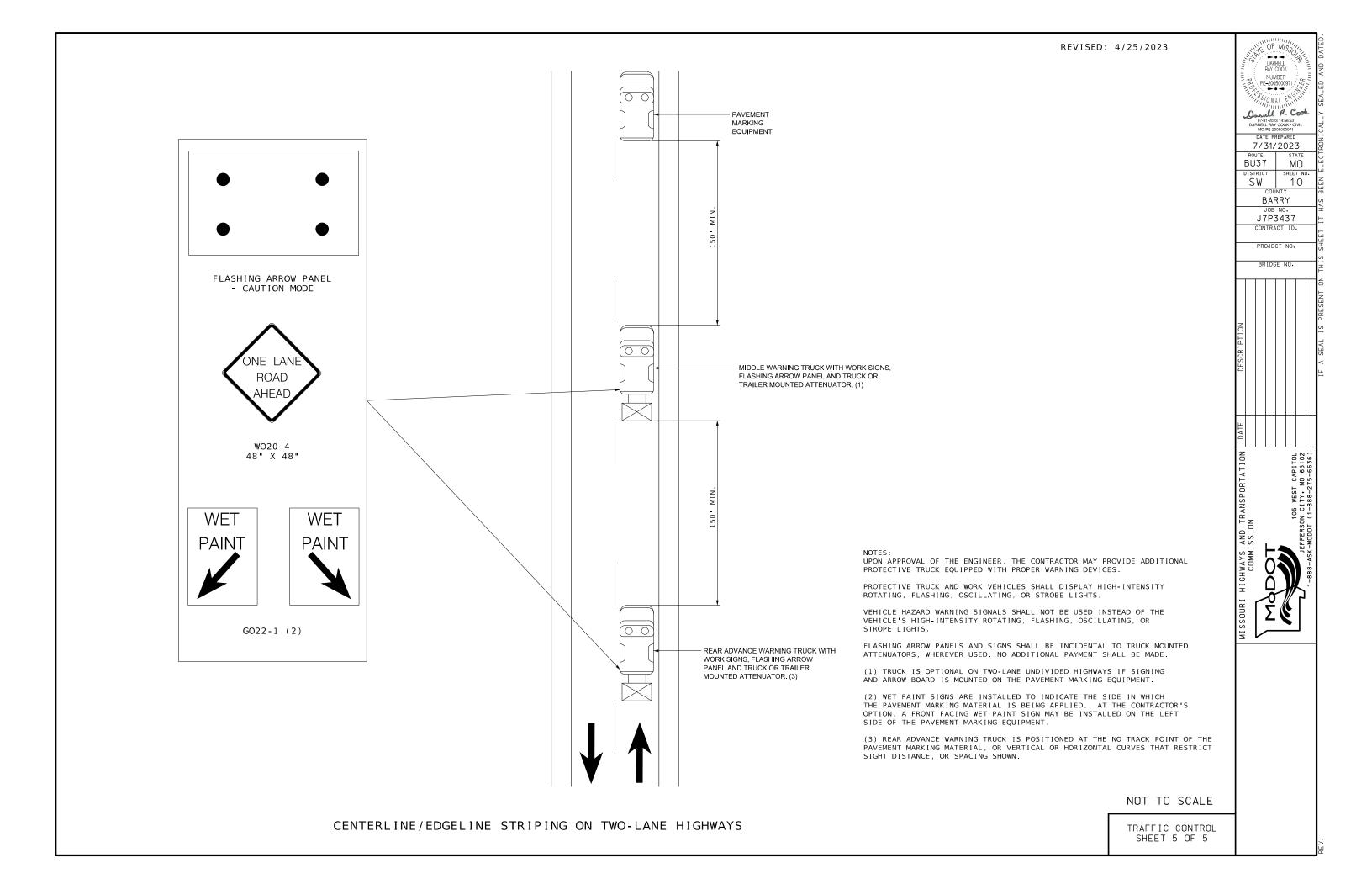
FOR BRIDGE EXCEPTIONS AND COLDMILLED AREAS, LOCATION OF SIGN (50) TO BE APPROVED BY THE ENGINEER. UNLESS REQUIRED BY STANDARD PLAN 619.10, SIGN (50) AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.

NOT TO SCALE

TRAFFIC CONTROL SHEET 4 OF 5

Dunell R Cool 07-31-2023 14:56:45 DARRELL RAY COOK - CIVIL MO-PE-2005000971 7/28/2023 BU37 MΩ SHEET NO 9 SW BARRY J7P3437 CONTRACT ID. PROJECT NO. BRIDGE NO.

DARRELL RAY COOK NUMBER E-200500097



DESIGN DESIGNATION

MO 76

A.A.D.T. - 2023 = 2.230A.A.D.T. - 2043 = 2.711D.H.V. = 8%

T = 12%

V = 55, 35, 25 M.P.H. D = 50.2% / 49.8%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

BUS 37

A.A.D.T. - 2023 = 12,550A.A.D.T. - 2043 = 13,192

D.H.V. = 8%

V = 55, 35, 25 M.P.H. D = 50.9%/49.1%

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO NEW RIGHT-OF-WAY REQUIRED

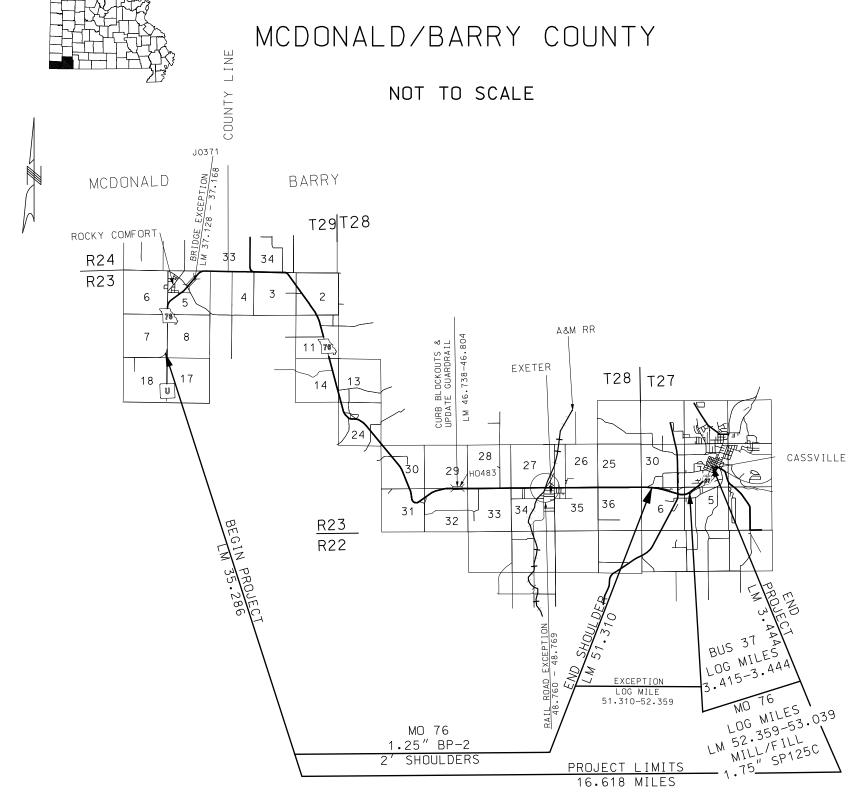
CONVENTIONAL SYMBOLS

(USED IN PLANS	5)	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER	(=);	
LOCATION SURVEY MARKER UTILITIES	O	0
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- F O OTV UTV OT UT OE UE S S S G W SAN	-F0- -0TV- -UTV- -0T- -0E- -UE- -\$- -\$\$- -\$\$- -\$\$- -\$\$- -\$\$-
MANHOLE	HYD	€
FIRE HYDRANT	wv)
WATER VALVE	ww	€
WATER METER	 -:-)
DROP INLET	<u>"</u> [
DITCH BLOCK	=	=
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED \/ \/ \/ \/ BM	<u>.</u>
BENCHMARK	 E	>

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY



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) (7 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
SPECIAL SHEETS (SS)	4-7
TRAFFIC CONTROL SHEETS (TC)	8-13
SIGNING (SN)	14
BRIDGE DRAWINGS (B)	
J0371	1-2

DARRELL RAY COOK NUMBER PE-2005000971				
Durell R Cook 07-31-2023 15:11:43	- 1			
DARRELL RAY COOK - CIVIL MO-PE-2005000971				
DATE PREPARED				
7/28/2023				
ROUTE STATE				
76/BU37 MO				
DISTRICT SHEET NO.				
SW 1				
COUNTY MCDONALD/BARR	RΥ			
JOB NO.	1			
J7S3447				
CONTRACT ID.				
PROJECT NO.	1			
BRIDGE NO.	1			
<u> </u>				
	_			

LENGTH OF PROJECT

ROUTE 76	
BEGINNING OF PROJECT	LM. 35.286
END OF PROJECT	LM. 53.039
APPARENT LENGTH	93735.84 FE
EQUATIONS AND EXCEPTIONS:	LM 37.128- 37.16 LM 46.738- 46.80 LM 48.760- 48.76 LM 51.310- 52.35
ROUTE BUS 37	
BEGINNING OF PROJECT	LM. 3.415

END OF PROJECT

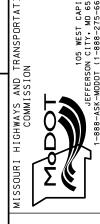
APPARENT LENGTH

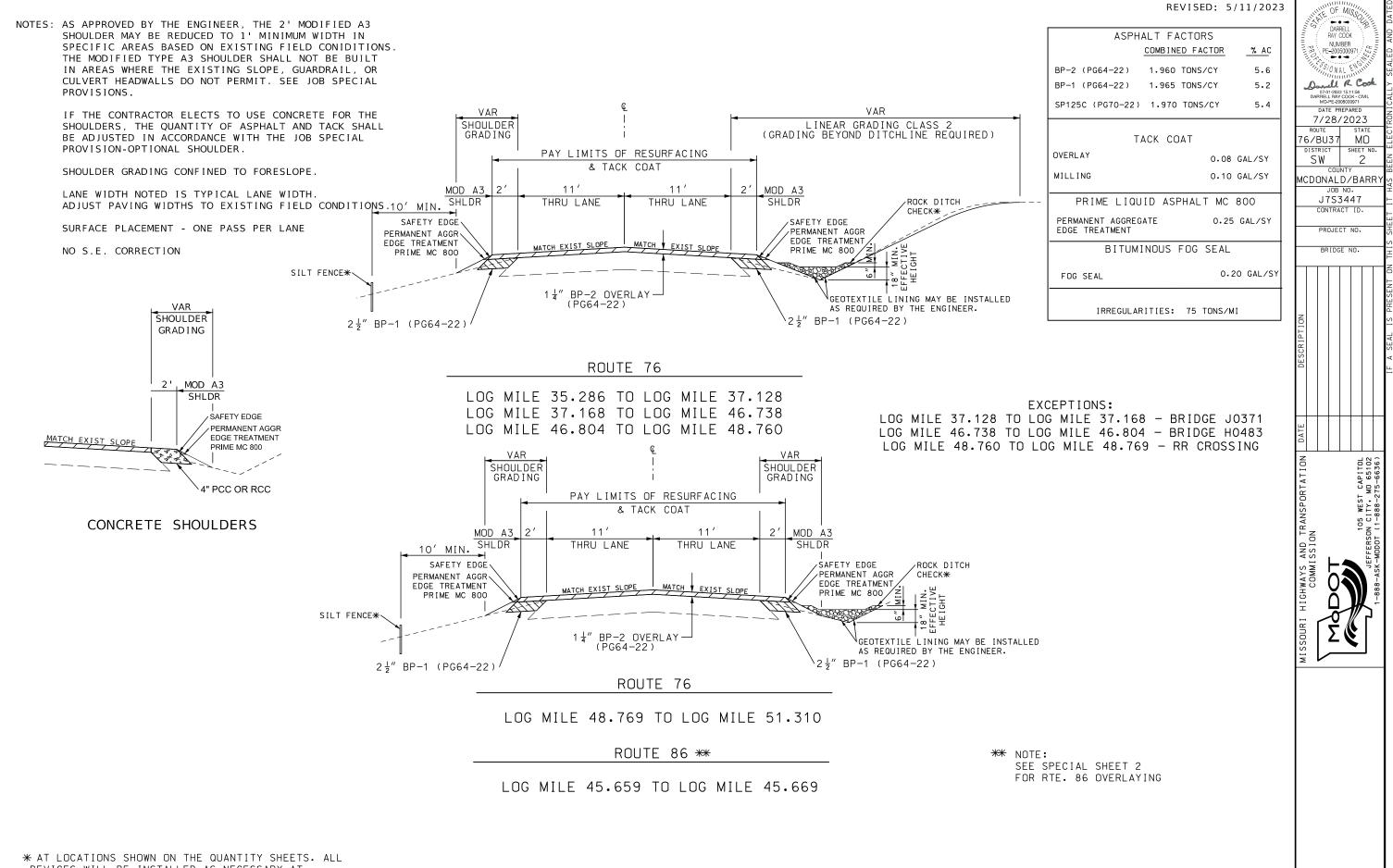
AL CORRECTIONS	6145.92	FEET
LENGTH OF PROJECT	87743.04	FEET
E LENGTH	16.618	MILE

LM. 3.444

153.12 FEET

TOTAL NET STATI FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES 7.7 ACRES





* AT LOCATIONS SHOWN ON THE QUANTITY SHEETS. ALL DEVICES WILL BE INSTALLED AS NECESSARY AT THE DISCRETION OF THE ENGINEER.

TYPICAL SECTIONS SHEET 1 OF 7

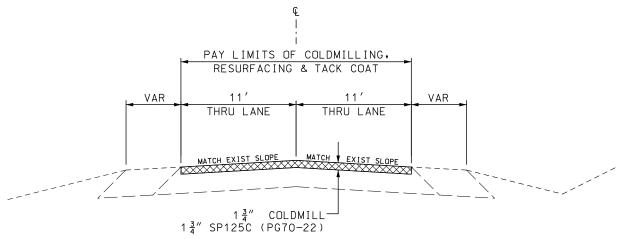
NOTES: LANE WIDTH NOTED IS TYPICAL LANE WIDTH.

ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

SURFACE PLACEMENT - ONE PASS PER LANE

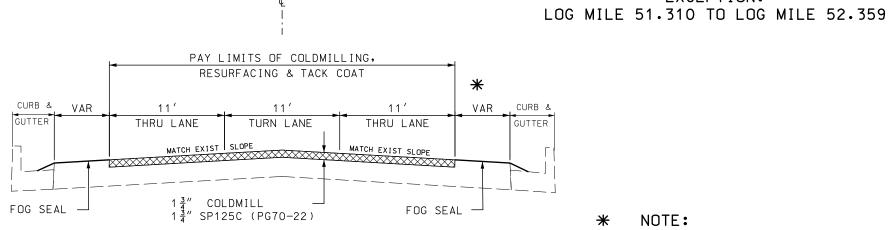
NO S.E. CORRECTION



ASPHALT FACTORS COMBINED FACTOR % AC BP-2 (PG64-22) 1.960 TONS/CY 5.6 BP-1 (PG64-22) 1.965 TONS/CY 5.2 SP125C (PG70-22) 1.970 TONS/CY 5.4 TACK COAT OVERLAY 0.08 GAL/SY MILLING 0.10 GAL/SY PRIME LIQUID ASPHALT MC 800 PERMANENT AGGREGATE 0.25 GAL/SY EDGE TREATMENT BITUMINOUS FOG SEAL 0.20 GAL/SY FOG SEAL IRREGULARITIES: 75 TONS/MI

ROUTE MO 76

LOG MILE 52.359 TO LOG MILE 52.479



7

LOG MILE 52.479 TO LOG MILE 53.039

ROUTE MO 76

ROUTE BUS 37

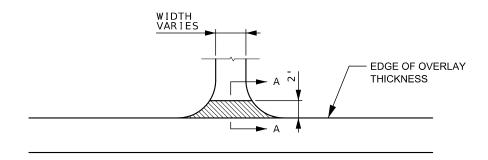
LOG MILE 3.415 TO LOG MILE 3.444

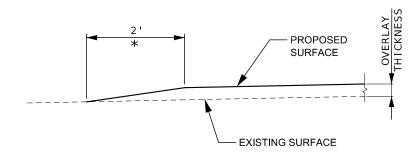
NOTE: FROM 53.011-53.039 RIGHT TURN LANE 11' WIDE

EXCEPTION:

MISSOURI HIGHWAYS AND TRANSPORTAT
COMMISSION

105 WEST CAP1
JEFFERSON CITY, MO GE
1-888-ASK-MODOT (1-888-ASF-660)



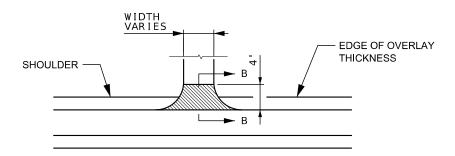


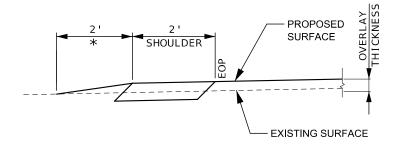
SECTION A-A

TYPICAL ENTRANCE - NO SHOULDER (FIELD, PRIVATE OR COUNTY ROAD) *TAPER AT 1:1 FOR FIELD ENTRANCE

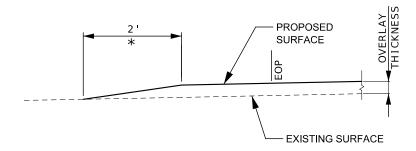
NOTE: 4 TONS GRAVEL A OR CRUSHED STONE CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.





AGGREGATE & EARTH ENTRANCES



ASPHALT & CONCRETE ENTRANCES

SECTION B-B

TYPICAL ENTRANCE - EXIST/NEW SHOULDER (FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTES: DO NOT BUILD 2' MODIFIED A3 SHOULDERS ACROSS CONCRETE OR ASPHALT ENTRANCES, STREETS OR ROADS.

4 TONS GRAVEL A OR CRUSHED STONE B CALCULATED PER ENTRANCE.

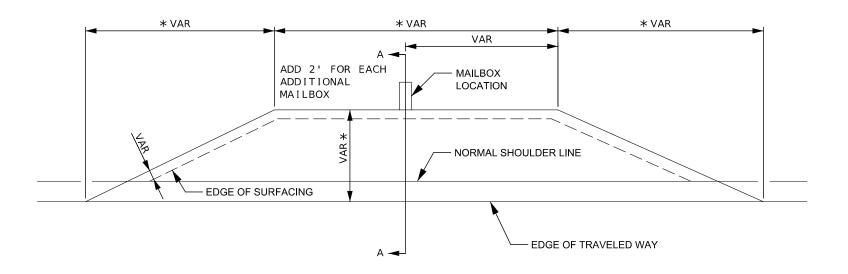
6 TONS CALCULATED PER COUNTY ROAD.

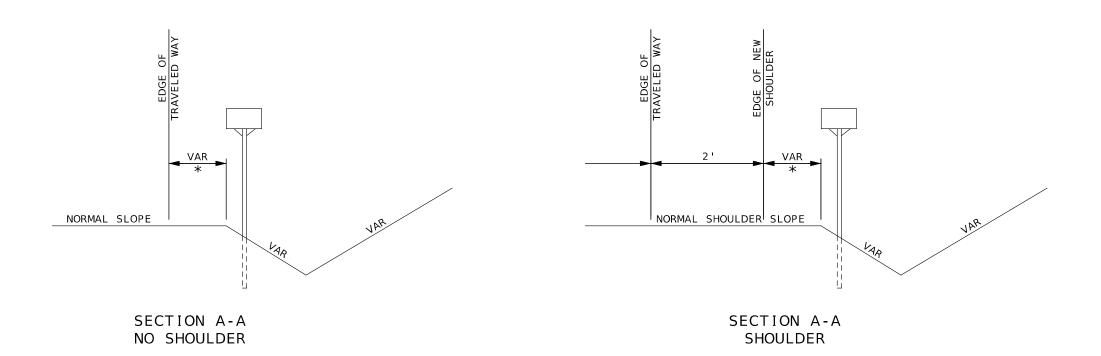
ı					١					
SSOURI HIGHWAYS AND TRANSPORTATION	DATE	DESCRIPTION			MC				THILLIAM	
COMMISSION					DO	S / E		DA DA	S PROXILI	
				CON	NC ,	RIC	DAT 1/2 JTE	07-3 RREL MO-	PE	IIII ZE
MODOT MODOT				TRA	AL JOB	T		1-202 L RAY PE-20	RAY NUN -200	OF
			CT GE N	34 (CT	D/ NO	S	REP / / 20	A L 111111 23 15:1 2 COO	RELL COOH MBER 15000	Ш <i>і,</i> М/,
105 WEST CAPITOL				ID	Έ <i>Α</i>	HEE	02	12:18 OK - C 0971	971.	111,1 SSC
JEFFERSON CITY, MD 65102					١R		3 ate	IVIL	11/1/256	
1-888-ASK-MODOT (1-888-275-6636)					RY	٥.		L	WHITH HAVE	

NOTE: MAILBOX TURNOUT QUANTITIES BASED ON 2' WIDTH AND 15' LENGTH. ADD 2' IN LENGTH PER ADDITIONAL MAILBOX AT SAME LOCATION, AS APPROVED BY THE ENGINEER.

TYPICAL MAILBOX TURNOUT

*AS APPROVED BY THE ENGINEER





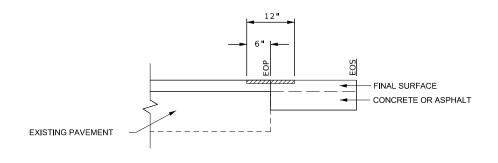
TYPICAL SECTIONS SHEET 4 OF 7

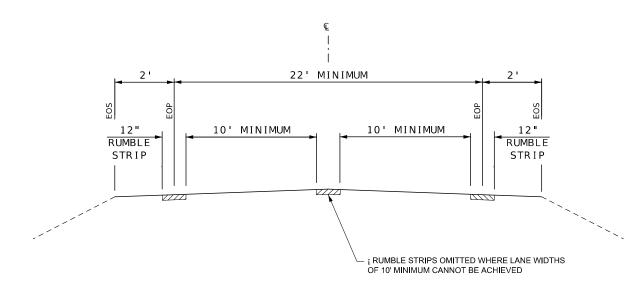
DARRELL RAY COOK NUMBER PE-200500097 DATE PREPARED 7/28/2023 ROUTE STATE
76/BU37 MO
DISTRICT SHEET NO
SW 2 MCDONALD/BARR JOB NO.
J7S3447
CONTRACT ID. PROJECT NO. BRIDGE NO.

RUMBLE STRIPS FOR 2' MODIFIED A3 SHOULDERS

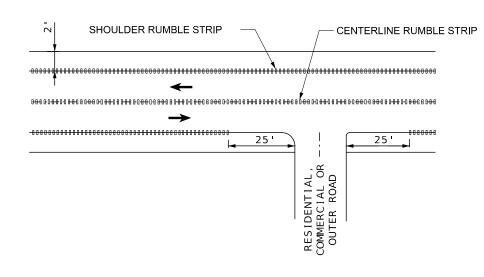
AS APPROVED BY THE ENGINEER, A 6" MINI RUMBLE STRIP MAY BE USED WHERE A 12" RUMBLE STRIP DOES NOT FIT.

RUMBLE STRIP DETAILS





INTERSECTION RUMBLE STRIP LAYOUT



DARRELL RAY COOK NUMBER PE-200500097

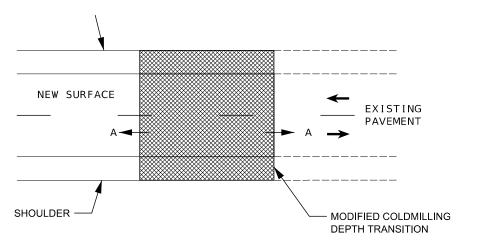
7/28/2023

76/BU37 MO SW

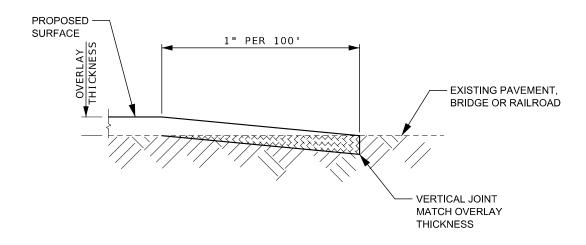
MCDONALD/BARR

JOB NO. J7S3447 PROJECT NO.

BRIDGE NO.



MAINLINE, BRIDGE, AND RAILROAD PLAN



SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, BRIDGE, OR RAILROAD

NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.

DATE PREPARED 7/28/2023 ROUTE STATE
76/BU37 MO
DISTRICT SHEET NO
SW 2 MCDONALD/BARR JOB NO.
J7S3447
CONTRACT ID. PROJECT NO. BRIDGE NO.

7/28/2023 ROUTE STATE 76/BU37 MO

MCDONALD/BARR

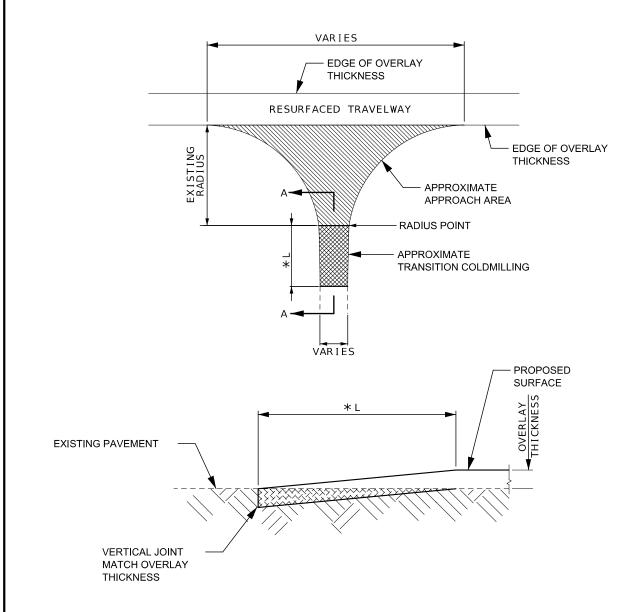
J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

SW

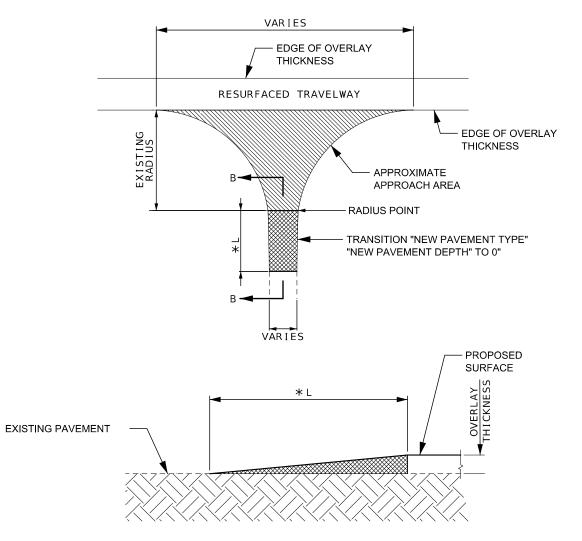


SECTION A-A

SURFACING REQUIREMENTS FOR OVERLAYS AT STATE ROUTES.
SEE QUANTITY SHEETS FOR LOCATIONS.

*TRANSITION LENGTHS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1 •	20.0'
1 ½"	40.0'
1 3/4"	50.0'
2"	60.0'



SECTION B-B

SURFACING REQUIREMENTS FOR OVERLAYS AT EXISTING COLD MIX STATE ROUTES. SEE QUANTITY SHEETS FOR LOCATIONS.

*TRANSITION LENGTHS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1 "	20.0'
1 ½"	40.0'
1 3/4"	50.0'
2"	60.0'

TYPICAL SECTIONS SHEET 7 OF 7

					ASPI	HALT, TACK, SH	HOULDER GRADING	G. SEEDING & MUL	CHING							
				NET	AVERAGE	BP-1 (PG 64-22)	BP-2 (PG 64-22)	SP125C (PG70-22)	TACK	TACK	SHOULDER	LINEAR GRADING	COOL SEASO	1		\neg
ROUTE	LOG		LOG	LENGTH	WIDTH	1.965	1.960	1.970	0.08	0.10	GRADING	CLASS 2 (SHLDR)	SEEDING	MULCHING		
LT/RT	MILE	TO	MILE	LF	LF	TONS	TONS	TONS	GAL	GAL	STA.	100FT	ACRE	ACRE	REMARKS	
MO 76	35.286	-	37.128	9725.8	4.0	589.8	294.2		345.8			194.5	0.89	0.89	2 FT SHOULDER (BP-1 2.5", BP-2 1.25"	,
MO 76	35.286	-	37.128	9725.8	22.0		1618.0		1901.9						MAINLINE (BP-2 1.25")	П
MO 76	37.168	-	46.378	48628.8	4.0	2949.2	1470.9		1729.0			972.6	4.47	4.47	2 FT SHOULDER (BP-1 2.5", BP-2 1.25"	,
MO 76	37.168	-	46.378	48628.8	22.0		8089.8		9509.6						MAINLINE (BP-2 1.25")	
MO 76	46.804	-	48.760	10327.7	4.0	626.4	312.4		367.2			206.6	0.95	0.95	2 FT SHOULDER (BP-1 2.5", BP-2 1.25"	,
MO 76	46.804	-	48.760	10327.7	22.0		1718.1		2019.6						MAINLINE (BP-2 1.25")	
MO 76	48.769	-	51.310	13416.5	4.0		405.8		477.0		268.3		1.23	1.23	2 FT SHOULDER (BP-1 2.5", BP-2 1.25"	/
MO 76	48.769	-	51.310	13416.5	22.0		2231.9		2623.7						MAINLINE (BP-2 1.25")	
MO 76	52.359	-	52.479	633.6	22.0		105.4			154.9						
MO 76	52.479	-	53.011	2809.0	33.0		700.9			1030.0					MAINLINE (BP-2 1.25")	
MO 76	53.011	-	53.039	147.8	44.0			69.2		72.3					MAINLINE (BP-2 1.25") INCLUDING RIGHT TURN LA	λNE
76/86	76/86	INTER	RSECTION	415.6	23.0		72.3		85.0						76/86 TRIANGLE	
MD 86	45.680	-	45.820	739.2	23.0		128.6		151.1						MD 86	
BU 37	3.415	-	3.444	153.1	40.0			65.17		68.1					MAINLINE (BP-2 1.25")	
MO 76	35.286	-	51.310	8883.0	2.0		134.3								ENTRANCES & SIDEROADS	
MO 76	35.286	-	51.310	998.0	2.0		15.1								MAILBOX TURNOUTS	
MO 76	35.286	-	51.310	_	-		1201.8								IRREGULARITIES 75 TONS/MILE	
MO 76, LT/RT	35.286	-	51.310	-	-	-	66.3				•				SAFETY EDGE	
				•	TOTAL	4165.5	18565.8	134.40	19210.1	1325.2	268.4	1373.6	7.54	7.54		
				•	USE	4165.5	18565.8	134.4	20536		268.4	1374	7.5	7.5		- ['

				COLDMILLI	NG	
				3" OR LESS	MODIFIED	
LOG LOG		LENGTH	WIDTH	COLDMILLING	COLDMILLING	
MILE TO MILE	LOCATION	(FT)	(FT)	(SY)	(SY)	REMARKS
35.286 - 35.310	MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEGIN PROJECT
37.104 - 37.128	MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEFORE BR#J0371
37.168 - 37.192	MO 76	125.0	22		305.6	125' DEPTH TRANSITION AFTER BR#J0371
45.659 - 45.682	MO 86	125.0	22		305.6	125' DEPTH TRANSITION ON RTE, 86
46.714 - 46.738	MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEFORE BR#H0483
46.804 - 46.828	MO 76	125.0	22		305.6	125' DEPTH TRANSITION AFTER BR#H0483
48.736 - 48.760	MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEFORE RR
48.769 - 48.793	MO 76	125.0	22		305.6	125' DEPTH TRANSITION AFTER RR
51.286 - 51.310	MO 76	125.0	22		305.6	125' DEPTH TRANSITION END RESURFACE
52.359 - 53.015	MO 76	3463.7	44	16933.5		
53.015 - 53.039	MO 76	125.0	44		611.1	125' DEPTH TRANSITION NORTH OF INTERSECTION
3.415 - 3.444	BUS 36	153.1	33	561.4	458.3	125' DEPTH TRANSITION SOUTH OF INTERSECTION
			TOTAL	17495.0	3819.4	
			USE	17495	3819	

	BITUMINOUS FOG SEAL												
	FOG SEAL												
LOG LOG	LOG LOG LENGTH WIDTH 0.20 GAL/SY												
MILE TO MILE	REMARKS												
52.479 - 53.039	MO 76 LT/RT	2956.8	20	1314.1	FOG SEAL SHOULDERS								
3.415 - 3.444	BU 37 LT/RT	153.1	20	68.1	FOG SEAL SHOULDERS								
			TOTAL	1382.2									
			USE	1382									

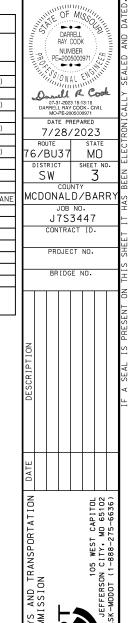
	REMOVAL OF IMPROVEMENTS												
LOG LOG													
MILE TO MILE	LOCATION	DESCRIPTION	QTY		REMARKS								
46.719 - 46.738	MO 76 RT/LT	100' GUARDRAIL	200	LF	BR#H0483								
46.804 - 46.822	MO 76 RT/LT	100' GUARDRAIL	200	LF	BR#H0483								
		LUMP SUM	1										

	В	ITUMI	NOUS SHOUL	DER RUMBLE	STRIP	
LOG		LOG		RUMBLE STRIP		
MILE	TO	MILE	LOCATION	(STA)	REM	ARKS
35.286	-	37.128	MO 76	97.3	LT	EOP
35.286	-	37.128	MO 76	97.3	RT	EOP
37.168	-	46.738	MO 76	505.3	LT	EOP
37.168	-	46.738	MO 76	505.3	RT	EOP
46.804	-	48.760	MO 76	103.3	LT	EOP
46.804	-	48.760	MO 76	103.3	RT	EOP
48.769	-	51.310	MO 76	268.3	LT	EOP
48.769	-	51.310	MO 76	268.3	RT	EOP
				245.9	SUBTRACT	ENTRANCES
			TOTAL	1948.3		
			USE	1948.3		

MOBILIZATION
LUMP SUM = 1

CONTRACTOR FURNISHED STAKING & SURVEYING LUMP SUM = 1

SUMMARY OF QUANTITIES SHEET 1 OF 4

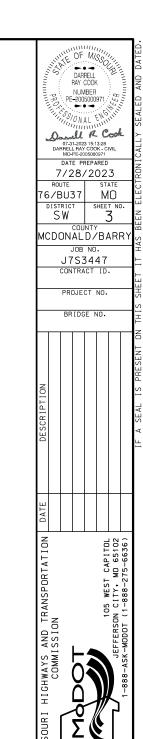


	EROSION CONTROL												
LOG MILE	SILT FENCE # OF DITCH CHECKS # OF X-ROAD SILT ROCK SEDIMENT SEPARATION LOG MILE LOG MILE LOCATION LENGTH EACH STRUCTURE STRUCTURES FENCE DITCH CHECK REMOVAL GEOTEXTILE REMARKS (EA) (EA) (LF) (LF) (CY) (SY)									REMARKS			
35.286	51.310	VARIOUS, LT & RT	84606.72	4	7	3000.0	280	5.8	140	SEE TYPICAL SHEET 1 OF 5			
33.200	PAY TOTAL 3000.0 280.0 58.0 140.0												

STANDARD	WATERBORNE	PAVEME	NT MARK	KING PAI	NT, TYPE P BEADS
		4 "	4 "	4"	
		SOLID	INT.	SOLID	
LOG LOG		WHITE	YELLOW	YELLOW	
MILE TO MILE	LOCATION	(FT)	(FT)	(FT)	REMARKS
35,286 - 36,947	MO 76	17540	0	8770	DOUBLE YELLOW CL
36.947 - 37.308	MO 76	3812	477	3812	DOOBLE TELLOW CL
37.308 - 37.607	MO 76	3157	395	3157	DOUBLE YELLOW CL
37.607 - 37.806	MO 76	2101	263	2101	BOOBEL TELEON OF
37.806 - 38.285	MO 76	5058	632	0	
38.285 - 38.445	MO 76	1690	211	845	
38.445 - 38.766	MO 76	3390	0	3390	DOUBLE YELLOW CL
38.766 - 39.085	MO 76	3369	421	1684	
39.085 - 39.145	MO 76	634	79	0	
39.145 - 39.385	MO 76	2534	317	1267	
39.385 - 39.685	MO 76	3168	0	3168	DOUBLE YELLOW CL
39.685 - 39.865	MO 76	1901	238	950	
39.865 - 40.366	MO 76	5291	661	0	
40.366 - 40.466	MO 76	1056	132	528	DOUBLE VELLOW C
40.466 - 41.965 41.965 - 42.065	MO 76 MO 76	15829 1056	0 132	15829 528	DOUBLE YELLOW CL
41.965 - 42.065 42.065 - 42.225	MU 76 MD 76	1690	211	0	
42.065 - 42.225	MO 76	1890	236	945	
42.404 - 44.262	MD 76	19620	0	19620	DOUBLE YELLOW CL
44.262 - 44.402	MD 76	1478	185	739	555522 .222511 02
44.402 - 44.422	MO 76	211	0	211	DOUBLE YELLOW CL
44.422 - 44.541	MD 76	1257	157	628	
44.541 - 44.922	MO 76	4023	0	4023	DOUBLE YELLOW CL
44.922 - 45.061	MO 76	1468	183	734	
45.061 - 45.101	MO 76	422	53	0	
45.101 - 46.261	MO 76	12250	1531	6125	
45.261 - 46.519	MO 76	13284	0	13284	DOUBLE YELLOW CL
46.519 - 46.698	MO 76	1890	236	945	
46.698 - 47.258	MO 76	5914	739	0	
47.258 - 47.417	MO 76	1679	210	840	
47.417 - 47.437	MO 76	211	26	0	
47.437 - 47.537 47.537 - 47.637	MO 76	1056	132	528	
47.537 - 47.637 47.637 - 47.797	MO 76 MO 76	1056 1690	132 211	0 845	
47.797 - 48.397	MO 76	6336	0	6336	DOUBLE YELLOW CL
48.397 - 48.497	MD 76	1056	132	528	DOOBLE TELEOW GE
48.497 - 48.657	MD 76	1690	211	0	
48.657 - 48.788	MO 76	1383	173	692	
48.798 - 48.918	MO 76	1267	158	634	
48.918 - 49.098	MO 76	1901	238	0	
49.098 - 49.557	MO 76	4847	606	2424	
49.557 - 49.577	MO 76	211	26	0	
49.577 - 49.697	MO 76	1267	158	634	
49.697 - 49.717	MO 76	211	26	0	
49.717 - 50.017	MO 76	3168	396	1584	DOUBLE VENEZUE
50.017 - 50.057	MO 76	422	0	422	DOUBLE YELLOW CL
50.057 - 50.157	MO 76	1056	132	528	
50.157 - 50.177	MO 76	211	26	1690	
50.177 - 50.497 50.497 - 51.097	MO 76 MO 76	3379 6336	422 0	1690 3168	DOUBLE YELLOW CL
51.097 - 51.297	MO 76	2112	264	1056	DOUBLE TELLUW CL
52.359 - 52.398	MO 76	412	51	206	
52.398 - 52.499	MD 76	1067	133	533	
52.499 - 53.019	MD 76	5491	686	5491	
53.019 - 53.039	MO 76	211	0	211	DOUBLE YELLOW CL
45.659 45.699	MD 86	211	0	422	DOUBLE YELLOW CL
	TOTAL	186923	12042	122058	
	USE	186923	134	100	

GRAVEL (A) OR CRUSHED STONE (B)
636 TONS

	PERMAN	ENT AGG	REGATE	E EDGE TREAT	MENT	
				PERMANENT	PRIME	
				AGGREGATE	MC800	
				TREATMENT @	0.25	
LOG LOG		LENGTH	WIDTH	200 TONS/MILE	GAL/SY	
MILE TO MILE	LOCATION	(FT)	(FT)	(TONS)	(GAL)	REMARKS
35.286 - 37.128	MO 76	9725.76	2	184.2	540.3	LT EOS
35.286 - 37.128	MO 76	9725.76	2	184.2	540.3	RT EOS
37.168 - 46.738	MO 76	50529.6	2	957.0	2807.2	LT EOS
37.168 - 46.738	MO 76	50529.6	2	957.0	2807.2	RT EOS
46.804 - 48.760	MO 76	10327.68	2	195.6	573.8	LT EOS
46.804 - 48.760	MO 76	10327.68	2	195.6	573.8	RT EOS
48.769 - 51.310	MO 76	13416.48	2	254.1	745.4	LT EOS
48.769 - 51.310	MO 76	13416.48	2	254.1	745.4	RT EOS
			TOTAL	3181.8	9333.3	
			USE	3181.8	9333	



SUMMARY OF QUANTITIES SHEET 2 OF 4

				RELOCATED S	IGNS
				RELOCATED	
LOG		LOG	LOCATION	SIGNS	
MILE	TO	MILE [RT/LT	SF	REMARKS
35.460			76 RT	12.0	REUSE SPEED LIMIT SIGN FACE
36.637			76 LT	9.0	REUSE CURVE LT SIGN FACE
37.128			76 RT	2.0	REUSE BRIDGE SIGN FACE
37.198			76 LT	2.0	REUSE BRIDGE SIGN FACE
38.356			76 LT	12.0	REUSE SPEED LIMIT SIGN FACE
38.436			76 RT	96.0	REUSE DESTINATION SIGN FACE
38.697			76 RT	12.4	REUSE 76 & 86 WITH ARROWS SIGN FACE
38.757			76 LT	96.0	REUSE DESTINATION SIGN FACE
39.436			76 LT	7.5	REUSE CHEVRON FACE
39.456			76 LT	7.5	REUSE CHEVRON FACE
39.476			76 LT	7.5	REUSE CHEVRON FACE
39.976			76 LT	7.5	REUSE CHEVRON FACE
43.036			76 RT	9.0	REUSE CURVE LT SIGN FACE
45.257			76 RT	9.0	REUSE REVERSE CURVE SIGN FACE
			TOTAL	289.4	
<u> </u>			USE	289	

	CABLE L	OOP DETECTOR, IN	DUCT
LOG		1C # 14 IN-DUCT	
MILE	QTY	CABLE (FT)	REMARKS
3.44	1	264.0	SB BU 37 @ MO 37
53.019	2	528.0	NB MO 76 @ BU 37
	264' PER LOOP	790.0	TOTAL IN DUCT (LOOPS)
150′	LEAD PER LOOP	450	TOTAL LEAD IN (3 LOOPS)

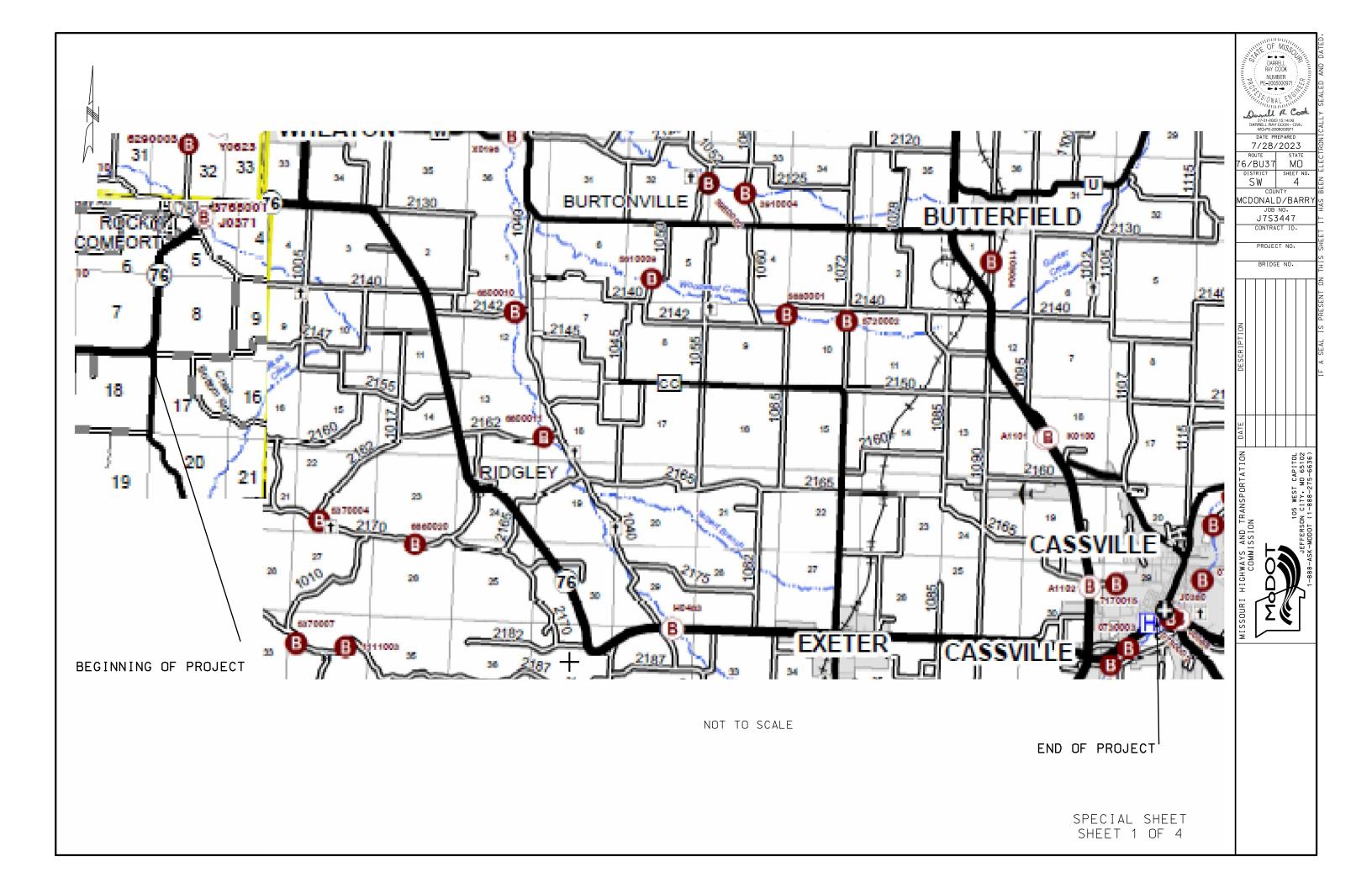
PREFORMED T	HERMOPLAS]	TIC MARI	KING TAP	Έ		
		24"	RR	WHITE	30"	
		WHITE	CROSSING	LT/RT	MID	
LOG LOG		BAR	MARKING	ARROW	BLOCKS	
MILE TO MILE	LOCATION	(LF)	(EA)	(EA)	(EA)	REMARKS
48.678 - 48.678	MO 76 E	12				
48.678 - 48.678	MO 76 E		1			
48.678 - 48.678	MO 76 E	12				
48.788 - 48.788	MO 76 E	12				STOP BAR AT RR
48.818 - 48.818	MO 76 E				4	CROSSWALK BAR
49.017 - 49.017	MO 76 E				4	CROSSWALK BAR
160.978 - 160.978	MO 76 W	12				
160.978 - 160.978	MO 76 W		1			
160.978 - 160.978	MO 76 W	12				
161.058 - 161.058	MO 76 W	12				STOP BAR AT RR
52.579 - 52.579	MO 76			2		LT AND RT ARROW
52.769 - 52.679	MO 76			2		LT AND RT ARROW
52.759 - 52.759	MO 76			2		LT AND RT ARROW
52.859 - 52.859	MO 76			2		LT AND RT ARROW
52.959 - 52.959	MO 76			2		LT AND RT ARROW
53.019 - 53.019	MO 76 E			1		RT ARROW
53.038 - 53.038	MO 76 E	12				
3.44 - 3.44	BU 37 S	24				
3.421 - 3.421	BU 37 S			1		LT ARROW
	TOTAL	108	2	12	8	
	USE	108	2	12	8	

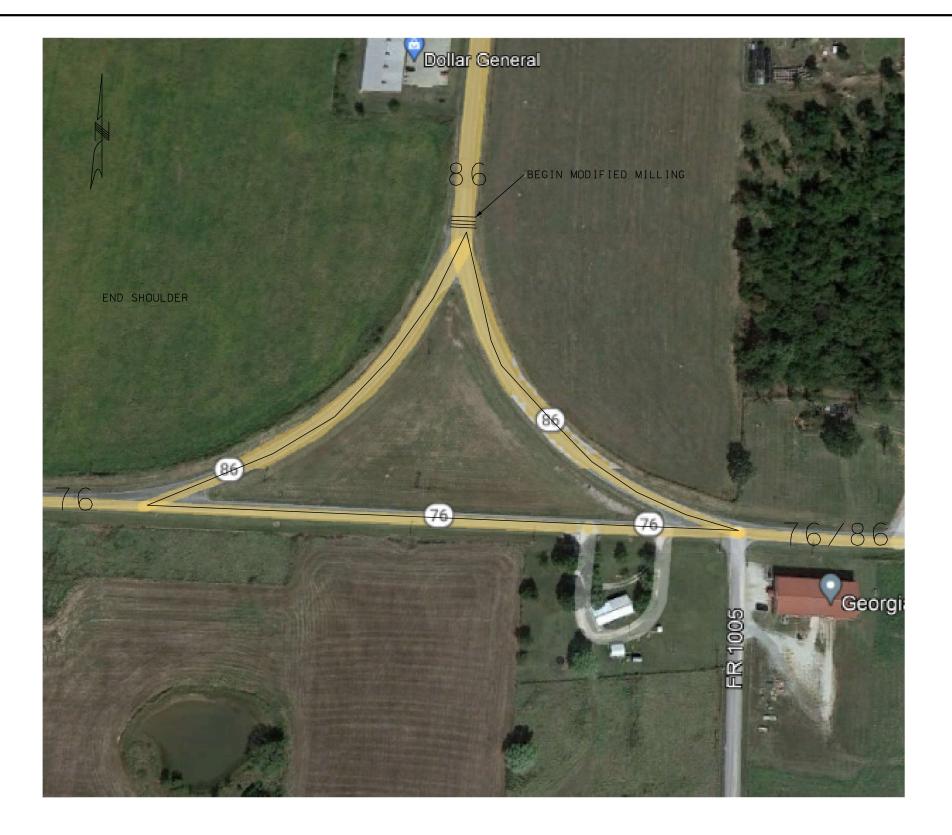
					MGS (GUARDRAIL			
				MASH	MGS	MGS BRIDGE	MGS BRIDGE	SHAPING	
			MGS	CRASHWORTHY	HEIGHT AND BLOCK	APPROACH TRANSITION	APPROACH TRANSITION	SLOPES	
LOG	LOG		GUARDRAIL	END TERMINAL	TRANSITION	"REGULAR/ NO CURB"	"THRIE-BEAM"	CL III	
MILE TO	O MILE	LOCATION	(FT)	(EA)	(EA)	(EA)	(EA)	(100FT)	REMARKS
37.107 -	37.128	J0371 EB	112.5	1		1		0.5	ADJACENT
37.119 -	37.128	J0371 EB	50.0	1		1		0.5	OPPOS I NG
37.168 -	37.189	J0371 EB	112.5	1		1		0.5	ADJACENT
37.168 -	37.177	J0371 EB	50.0	1		1		0.5	OPPOS I NG
46.737 -	46.754	H0483 EB	87.5	1	1		1	0.5	ADJACENT
46.799 -	46.804	H0483 EB	25.0	1	1		1	0.5	OPPOS I NG
46.804 -	46.821	H0483 EB	87.5	1	1		1	0.5	ADJACENT
46.804 -	46.809	H0483 EB	25.0	1	1		1	0.5	OPPOS I NG
					·				
		TOTAL	550.0	8	4	4	4	4.0	
		USE	550	8	4	4	4	4	

DATE PREPARED
7/38/2023
DATE PREPARED
7/28/2023
ROUTE
76/BU37
DISTRICT
SHEET NO.
SW
3 COUNTY MCDONALD/BARR JOB NO.
J7S3447
CONTRACT ID. PROJECT NO.

SUMMARY OF QUANTITIES SHEET 3 OF 4

SIZE AREA OF Y TOTAL SIGN SIZE AREA SIZE	(SAND BARRELS) ATTENUATOR (TMA) STEM OATS KEEP OUT) ADE
SIGN N. SOFT-Each SOFT- Each SOFT- Each SOFT- SOFT-	ION (SAND BARRELS) ATION) ATTENUATOR (TMA) STEM DARBEL RAY COOK CMIL MODPE-2005000971 DATE PREPARED 7/28/2023 151349 DARBEL RAY COOK CMIL MODPE-2005000971 DATE PREPARED 7/28/2023 ROUTE 7/28/2023
WARNING SIGNS DESCRIPTION DESCRIPTION	ION (SAND BARRELS) ATION) ATTENUATOR (TMA) STEM ATTENUATOR (TMA) STEM ADE ADE ADE ADE PE-200500097 NAL ENGINE DATE PREPARED APT-190203 15:19:49 DATE P
NOT-ILL 48X48 16.00 TURN (SYMBOL LEFT ARROW) E05-2 48X86 12.00 EXIT CPEN 6122003 IMPACT ATTENUATOR 40 MPH	(SAND BARRELS) ATION) ATTENUATOR (TMA) STEM OATS KEEP OUT) ADE ADE ADE OATS KEEP OUT) OATS KEEP OUT OATS NOTE OF THE PARED OF
W01-1R 48/48 16.00 TURN (SYMBOL LETCH ARROW) E05-2 48/35 12.00 EXIT DPEN 612209 IMPACT ATTENNATOR 50 MPH	(SAND BARRELS) ATION) ATTENUATOR (TMA) STEM ATTENUATOR (TMA) STEM ADE ADE ADE ADE ADE ADE COUNTY COUNTRACT ID.
VOI-2L 88X48 16.00 CURVE (SYMBOL LEFT ARROW) CO20-1 60X24 10.00 2 20.00 ROAD WORK NEXT XX MILES CO20-12 10.00 REVERSE TURN (SYMBOL LEFT ARROW) CO20-1 60X24 10.00 2 20.00 ROAD WORK NEXT XX MILES CO20-12 10.00 REVERSE TURN (SYMBOL LEFT ARROW) CO20-1 60X24 10.00 2 16.00 ROAD WORK NEXT XX MILES CO20-12 10.00 REVERSE TURN (SYMBOL LEFT ARROW) CO20-2 48X24 8.00 2 16.00 REVERSE TURN (SYMBOL LEFT ARROW) CO20-2 48X24 8.00 2 16.00 REVERSE TURN (SYMBOL LEFT ARROW) CO20-24 48X24 8.00 2 16.00 PILOT CAR FULLOW ME CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR FULLOW ME CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW CO20-14 10.00 REVERSE CURVE (SYMBOL RIGHT ARROW) CO20-50 56X4 4.00 ROAD CARCE WARRING RIAL RIGHT ARROW CO20-50 5	(SAND BARRELS) ATION) ATTENUATOR (TMA) STEM ATTENUATOR (TMA) STEM ADDE A
NOI-2R	(SAND BARRELS) (SAND BARRELS) (SAND BARRELS) (SAND BARRELS) (SAND BARRELS) ATION) ATTENUATOR (TMA) STEM ATTENUATOR (TMA) OATS KEEP OUT) ADE ADE ADE ADE ADE ADE ADE AD
NOI-3R 48X48 16.00 REVERSE TURN (SYMBOL RIGHT ARROW) CO20-4 35X18 4.50 2 9.00 PILOT CAR FOLLOW ME 6122017 IMPACT ATTENUATOR 65 MPH NOI-4R 48X48 16.00 REVERSE CURVE (SYMBOL LEFT ARROW) CO20-40 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW 6122020 REPLACEMENT SAND BARROW NOI-4PL 48X48 16.00 DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) MOI-4PL 48X48 16.00 DETOUR (RIGHT ARROW) MOI-4PL 48X48 16.00 DETOUR (RIGHT ARROW) MOI-4PL 48X48 16.00 DETOUR (RIGHT ARROW) MOI-4PL 48X48 16.00 DETOUR (ARROW LEFT) MOI-4PL 48X48 16.00 DETOUR (ARROW LEFT) MOI-4PL 48X48 16.00 DETOUR (ARROW LEFT) MOI-4PL 48X48 16.00 DETOUR (ARROW RIGHT) MOI-4PL MO	(SAND BARRELS) (SAND BARRELS) (SAND BARRELS) ATION) ATTENUATOR (TMA) STEM OATS KEEP OUT) ADE ADE COUNTY MCDONALD/BARR JOB NO. J753447 CONTRACT ID. PROJECT NO.
W01-4L 48X48 16.00 REVERSE CURVE (SYMBOL LEFT ARROW) G020-4d 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW G122030 IMPACT ATTENUATOR 70 MPH W01-4DL 48X48 16.00 DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) G020-5d 42X30 8.75 PILOT CAR IN USE WAIT & FOLLOW G122030 IMPACT ATTENUATOR 70 MPH G122030 IMPACT	ROUTE STATE (SAND BARRELS) ATION) ATTENUATOR (TMA) STEM OATS KEEP OUT) ADE ADE ADE
NO1-4PR	ATION) ATTENUATOR (TMA) STEM OATS KEEP OUT) ADE LOADS ATTENUATOR (TMA) PROJECT NO.
W01-4bL 48X48 6.00 DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) W01-4bL 48X48 6.00 DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4bL 48X48 6.00 DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4cR 48X48 6.00 TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4cR 48X48 6.00 TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4cR 48X48 6.00 TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4cR 48X48 6.00 TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4cR 48X48 6.00 TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-4cR 48X48 6.00 DETOUR (LEFT ARROW) 6161012 BUOYS (BOATS KEEP OUT) W01-4cR 48X48 6.00 DETOUR (ARROW LEFT) W01-4cR 48X48 6.00 DETOUR (ARROW REVERSE CURVE (SYMBOL) W01-4cR 48X48 6.00 DETOUR (ARROW REFT) W01-4cR 48X48 W01-4cR 48	ATTENUATOR (TMA) STEM SW 3 COUNTY MCDONAL D/BARF JOB NO. J7S3447 CONTRACT ID. PROJECT NO.
MO1-4bR 48X48 16.00 DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) MO4-8d 24X18 3.00 DETOUR (LEFT ARROW) 6161008 4 ADVANCE WARNING RAIL SY MO4-9F 48X36 12.00 DETOUR (LEFT ARROW) 6161013 BUOYS (NO WAKE) MO4-9F 48X36 12.00 DETOUR (LEFT ARROW) 6161013 BUOYS (NO WAKE) MO4-9F 48X36 12.00 DETOUR (RIGHT ARROW) 6161013 BUOYS (NO WAKE) MO4-9F 48X36 12.00 DETOUR (RIGHT ARROW) MO4-9F 48X36 12.00 DETOUR (ARROW LEFT) MO4-10A 48X18 6.00 DETOUR (ARROW LEFT) MO4-10A 48X18 6.00 DETOUR (ARROW RIGHT) MO4-10A 48X18 6.00 DETOU	ATTENUATOR (TMA) STEM MCDONALD/BARF JOB NO. J7S3447 CONTRACT ID. PROJECT NO.
W01-4cr 48X48 16.00 TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) W01-6cr 60X30 12.50 HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE) W01-7cr 60X30 12.50 DETOUR (RIGHT ARROW LEFT) W01-7cr 72X36 18.00 DETOUR (ARROW LEFT) W01-7cr W01-7cr	JOB NO. J7S3447 CONTRACT ID. ADE LOADE
W01-6 60X30 12.50	J7S3447 CONTRACT ID. ADE LGADE
W01-6a 72X36 18.00 HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) MO4-10 48X18 6.00 DETOUR (ARROW LEFT) 6161014 SPECIAL SIGN ASSEMBLY (B MO4-10 48X18 6.00 DETOUR (ARROW LEFT) 6161025 300 CHANNELIZER (TRIM LINE) CHEVRON (SYMBOL) CHEVRON (SYMBOL ON PERM. BARRICADE) MO4-10 48X18 6.00 DETOUR (ARROW RIGHT) 6161025 300 CHANNELIZER (TRIM LINE) CHEVRON (SYMBOL) CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) TO ONCOMING TRAFFIC (PLAQUE) CHEVRON (SYMBOL) CHEVRON (SYMB	OATS KEEP OUT) CONTRACT ID. PROJECT NO.
W01-7 60X3 12.50 DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) M04-10R 48X18 6.00 DETOUR (ARROW RIGHT) 6161025 300 CHANNELIZER (TRIM LINE)	ADE PROJECT NO.
W01-7a 72X36 18.00 DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.) REGULATORY SIGNS G161030 TYPE III MOVEABLE BARRIC MO1-8a 18X24 3.00 CHEVRON (SYMBOL) R1-1 48X48 13.25 STOP G161033 DIRECTION INDICATOR BARR MO1-8a 30X36 7.50 CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) R1-2 48TRI. 6.93 YIELD G161040 2 FLASHING ARROW PANEL MO3-1 48X48 16.00 STOP AHEAD (SYMBOL) R1-2a 36X36 9.00 TO ONCOMING TRAFFIC (PLAQUE) G161047 TYPE III OBJECT MARKER MO3-2 48X48 16.00 SIGNAL AHEAD (SYMBOL) R1-3P 30X12 2.50 ALL WAY (PLAQUE) G161051 WARNING LIGHT, TYPE A MO3-3 48X48 16.00 SPEED LIMIT AHEAD R3-1 48X48 16.00 NO LEFT TURN (SYMBOL) G161055 SEQUENTIAL FLASHING WARN	ADE
W01-8a 30X36 7.50	ICADE BRIDGE NO.
W03-1 48X48 16.00 STOP AHEAD (SYMBOL) R1-2a 36X36 9.00 TO ONCOMING TRAFFIC (PLAQUE) R1-3p 30X12 2.50 ALL WAY (PLAQUE) R1-3p 30X12 2.50 ALL WAY (PLAQUE) R2-1 36X48 12.00 4 48.00 SPEED LIMIT XX R3-1 48X48 16.00 SPEED LIMIT XX R3-1 48X48 16.00 SPEED LIMIT XX R3-2 48X48 16.00 SPEED LIMIT TURN (SYMBOL) R3-2 48X48 16.00 SPEED LIMIT TURN (SYMBOL) R3-2 48X48 16.00 SPEED LIMIT SYMBOL)	
W03-2 48X48 16.00	
W03-3 48X48 16.00 SIGNAL AHEAD (SYMBOL) R2-1 36X48 12.00 4 48.00 SPEED LIMIT XX 6161052 WARNING LIGHT, TYPE B R3-1 48X48 16.00 NO RIGHT TURN (SYMBOL) R3-2 48X48 16.00 NO LEFT TURN (SYMBOL) 6161053 WARNING LIGHT, TYPE C R3-2 48X48 16.00 NO LEFT TURN (SYMBOL) 6161055 SEQUENTIAL FLASHING WARN	
W03-4 48X48 16.00 19 304.00 BE PREPARED TO STOP R3-1 48X48 16.00 NO RIGHT TURN (SYMBOL) 6161053 WARNING LIGHT, TYPE C W03-5 48X48 16.00 NO LEFT TURN (SYMBOL) 6161055 SEQUENTIAL FLASHING WARN	
IW04-11 48X48 16.001	ING LIGHT
	
W04-1R 48X48 16.00 MERGE (SYMBOL FROM RIGHT) R3-4 48X48 16.00 NO U-TURN (SYMBOL) 6161095 RADAR SPEED ADVISORY SYS W04-1aL 48X48 16.00 LEFT LANE MUST TURN LEFT CHANGEABLE MESSAGE SIGN,	<u> </u>
W04-1ar 48X48 16.00 MERGE (ARROW SYMBOL) R3-7R 30X30 6.25 RIGHT LANE MUST TURN RIGHT 6161096 COMMISSION FURNISHED/RET	AINED SS
W05-1 48X48 16.00 ROAD/BRIDGE/RAMP NARROWS R4-1 36X48 12.00 2 24.00 DO NOT PASS CHANGEABLE MESSAGE SIGN	
W05-3 48X48 16.00 ONE LANE BRIDGE R4-2 36X48 12.00 2 24.00 PASS WITH CARE 6161098A INTERFACE, CONTRACTOR FU	
WOS -5 48X48 16.00 NARROW LANES R4-8a 36X48 12.00 KEEP LEFT (HORIZONTAL ARROW) CHANGEABLE MESSAGE SIGN	
W06-1 48X48 16.00 DIVIDED HIGHWAY (SYMBOL) R4-7a 36X48 12.00 KEEP RIGHT (HORIZONTAL ARROW) 6161099 4 INTERFACE, CONTRACTOR FU W06-2 48X48 16.00 DIVIDED HIGHWAY END (SYMBOL) R5-1 30X30 6.25 DO NOT ENTER 6162000A WORK ZONE TRAFFIC SIGNAL	
WOG-3 48X48 16.00 TWO WAY TRAFFIC (SYMBOL) R5-1a 36X24 6.00 WRONG WAY 6162002 TEMPORARY LONG-TERM RUMB	
W07-3a 30X24 5.00 NEXT XX MILES (PLAQUE) R6-1L 54X18 6.75 ONE WAY ARROW (LEFT)	
W08-1 48X48 16.00 BUMP R6-1R 54X18 6.75 ONE WAY ARROW (RIGHT) TEMPORARY TRAFFIC BARRIE	
WOB-2 48X48 16.00 DIP R6-2L 24X30 5.00 ONE WAY (LEFT) 6173600D CONTRACTOR FURNISHED/RET WOB-3 48X48 16.00 PAVEMENT ENDS R6-2R 24X30 5.00 ONE WAY (RIGHT) TEMPORARY TRAFFIC BARRIE	
W08-4 48X48 16:00 SDFT SHOULDER R9-9 24X12 2:00 SIDEWALK CLOSED G173602B CONTRACTOR FURNISHED/COM	MISSION RETAINED
WO8-5 48X48 16.00 SLIPPERY WHEN WET (SYMBOL) SIDEWALK CLOSED AHEAD, 6174000A TEMP. TRAFFIC BARRIER HE	IGHT TRANSITION
WOB-6 48X48 16.00 TRUCK CROSSING (WITH FLAGS) R9-11L 24X18 3.00 (ARROW LEFT) CROSS HERE 6175010A RELOCATING TEMPORARY TRA	
WOB-6C 48X48 16.00 TRUCK ENTRANCE SIDEWALK CLOSED AHEAD, TEMPORARY TRAFFIC BARRIE	"
WOB-7 36X36 9.00 LOOSE GRAVEL R9-11R 24X18 3.00 (ARROW RIGHT) CROSS HERE 6176000B COMMISSION FURNISHED/RET WOB-7a 36X36 9.00 STOP HERE ON RED (45° ARROW) TEMP. TRAFFIC BARRIER HE	
WO8-9 48X48 16.00 LOW SHOULDER R11-2 48X30 10.00 ROAD CLOSED 6177000B COMMISSION FURNISHED/RET	ER STEE
WO8-11 48X48 16.00 10 160.00 UNEVEN LANES ROAD CLOSED XX MILES AHEAD 6208064A TEMPORARY RAISED PAVEMEN	T MARKER
WOB-12 48X48 16.00 6 96.00 NO CENTER LINE R11-3a 60X30 12.50 LOCAL TRAFFIC ONLY 9029400 TEMPORARY TRAFFIC SIGNAL	5 × M × N × N × N × N × N × N × N × N × N
WO8-15 48X48 16.00 GROOVED PAVEMENT R11-4 60X30 12.50 ROAD CLOSED TO THRU TRAFFIC 9029401 TEMPORARY TRAFFIC SIGNAL WO8-15P 30X24 5.00 FINE SIGN	S AND LIGHTING
W08-17 48X48 16.00 SHOULDER DROP-OFF (SYMBOL) CONST-3X 56X12 4.67 SPEEDING/PASSING (PLATE)	S AND LIGHTING COMPAY
WO8-17P 30X24 5.00 SHOULDER DROP-OFF (PLAQUE) MISCELLANEOUS SIGNS	
W10-1 42RND, 9.62 RAILROAD CROSSING CONST-5 48X36 12.00 2 24.00 POINT OF PRESENCE	
W012-1 24X24 4.00 DOUBLE DOWN ARROW (SYMBOL) CONST-5 96X48 32.00 POINT OF PRESENCE	
W012-2 48X48 16.00 LOW CLEARANCE (SYMBOL) CONST-7 48X24 8.00 RATE OUR WORK ZONE W012-2X 24X18 3.00 LOW CLEARANCE (PLAQUE) CONST-7 72X36 18.00 RATE OUR WORK ZONE	
W012-2q 84X24 14.00 OVERHEAD LOW CLEARANCE (FEET AND INCHES) CONST-8 48X36 12.00 2 24.00 WORK ZONE NO PHONE ZONE	<u>> v</u>
WO12-4 120X60 50.00 LOW CLEARANCE XX FT XX IN XX MILES AHEAD	
W012-5 120X60 50.00 WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	
W013-1 30X30 6.25 ADVISORY SPEED (PLAQUE)	
W016-2 30X24 5.00 XXX FEET (PLAQUE) W016-3 30X24 5.00 X MILE (PLAQUE)	
W020-1 48X48 16.00 30 480.00 ROAD/BRIDGE/RAMP WORK AHEAD	
W020-2 48X48 16.00 DETOUR AHEAD	
W020-3 48X48 16.00 R0AD CLOSED AHEAD	
W020-4 48X48 16.00 4 64.00 ONE LANE ROAD AHEAD 616-10.05 TOTAL W020-5 48X48 16.00 RIGHT/CENTER/LEFT LANE CLOSED AHEAD CONSTRUCTION SIGNS 1450	
W020-5 48X48 16.00 RIGHT/CENTER/LEFT LANE CLOSED AHEAD CONSTRUCTION SIGNS 1450 W020-5 48X48 16.00 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD 616-10.10 TOTAL	
W020-6d 48X48 16.00 RIGHT/CENTER/LEFT LANE CLOSED RELOCATED SIGNS 0	
W020-70 48X48 16.00 4 64.00 FLAGGER (SYMBOL, WITH FLAGS)	
W021-2 36X36 9.00 FRESH OIL	
W021-5 48X48 16.00 SHOULDER WORK AHEAD	
W022-1 48X48 16.00 BLASTING ZONE AHEAD SUMMARY OF QU	ANTITIES
W022-3 42X36 10.50 END BLASTING ZONE	<i>-</i> 4
G022-1 21X15 2.19 2 4.38 WET PAINT (ARROW PIVOTS)	· I





MO 76/ MO 86 INTERSECTION
INCLUDE TRIANGLE
OVERLAY 0.08
NO SHOULDER WORK ON 86

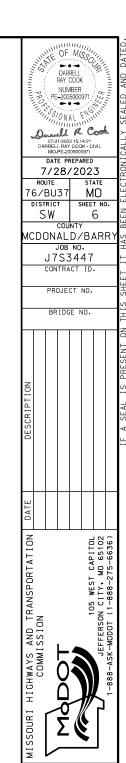
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07-31-2023 15:14-12 DARRELL RAY COOK - CIVIL MO-PE-200800971 DATE PREPARED 7/28/2023 ROUTE STATE												
76/BU37 MO												
SW 5 COUNTY MCDONALD/BARRY												
	ļ	J7	S TRA	00 3 Z	4 ID	7						
		PRO	OJE	СТ	NO.							
		BR	IDO	E N	۱0,							
DESCRIPTION												
DATE												
HIGHWAYS AND TRANSPORTATION	COMMISSION				105 WEST CAPITOL	JEFFERSON CITY, MD 65102	1-888-ASK-MODOT (1-888-275-6636)					

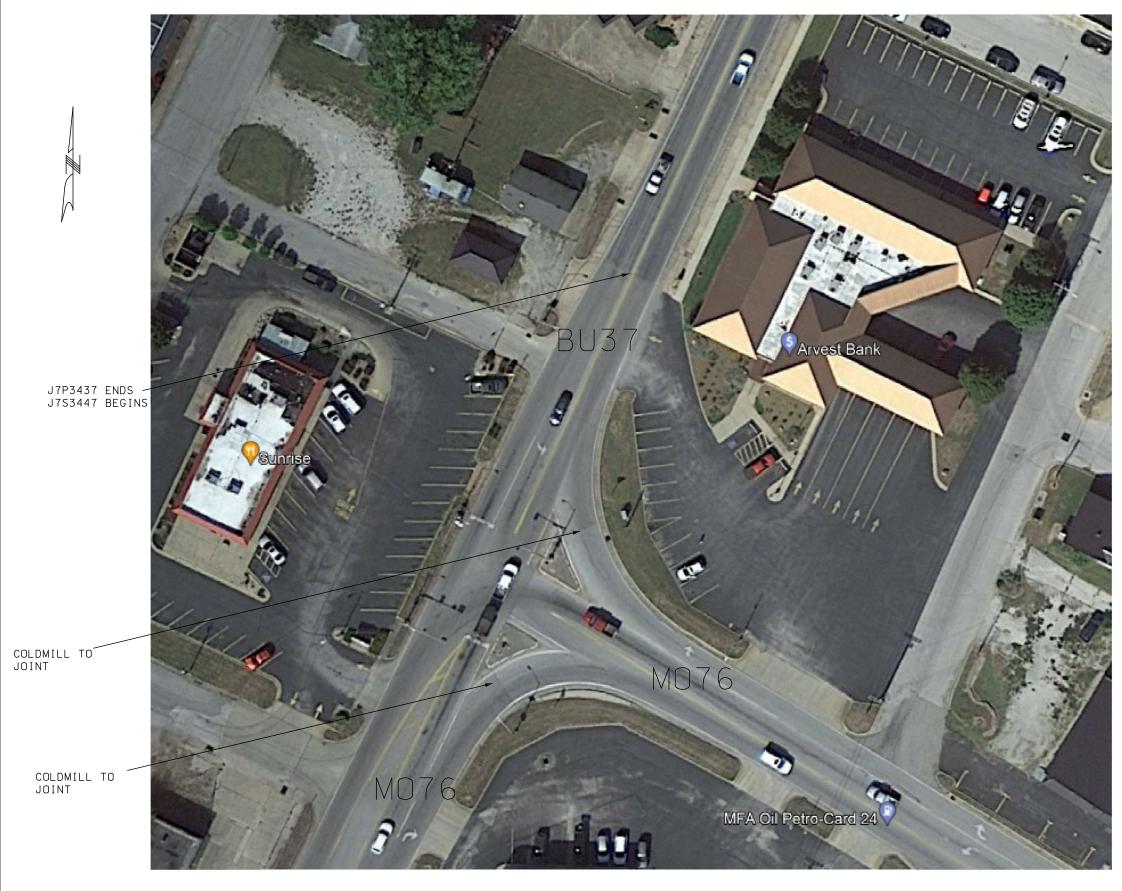




RAILROAD CROSSING EXETER, MO

NOT TO SCALE





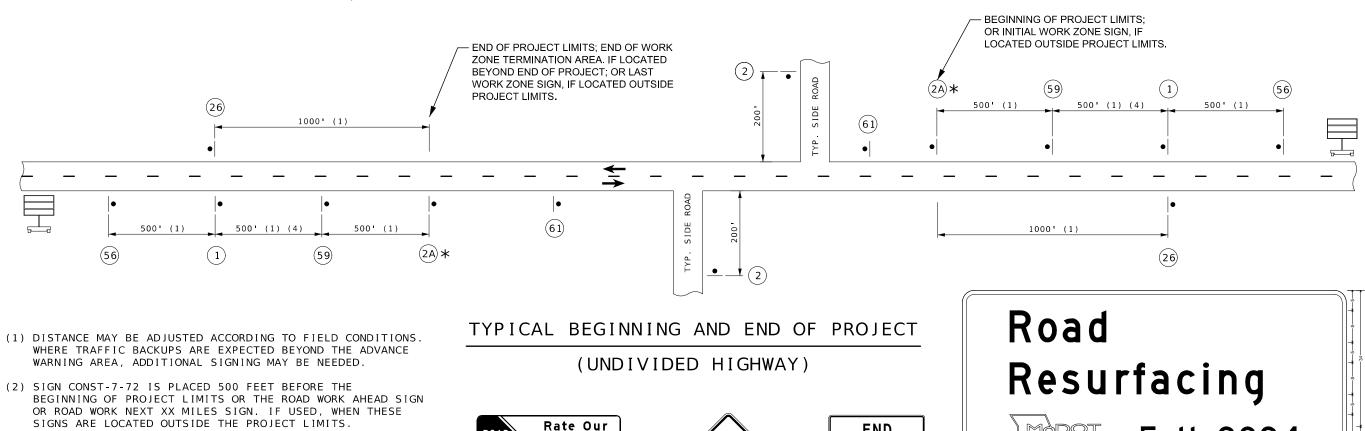
DATE PREPARED 7/28/2023 ROUTE STATE
76/BU37 MO
DISTRICT SHEET NO
SW 7 COUNTY MCDONALD/BARR JOB NO.
J7S3447
CONTRACT ID.

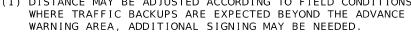
NOT TO SCALE

SPECIAL SHEET SHEET 4 OF 4

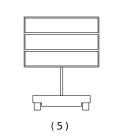
REVISED: 4/18/2023 GENERAL NOTES:

- ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
- TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
- SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
- REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
- SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
- TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
- ALL SIGNS, EXCEPT "RATE OUR WORK ZONES" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
- 11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
- 12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
- 13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
- 14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.
- 16. CONTRACTOR SHALL COORDINATE WITH ADA PROJECT, JXXXXXX.





- SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.
- (3) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.
- (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (5) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.





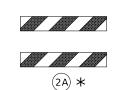


Work Zone

modot.org

CONST - 7 - 72 (56)(2)







END

ROAD WORK

GO20 - 2

(26)

*SIGN 2A WITH AWRS MUST BE GROUND OR SKID MOUNTED

Fall 2024



Completed as Promised

NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 6



7/28/2023

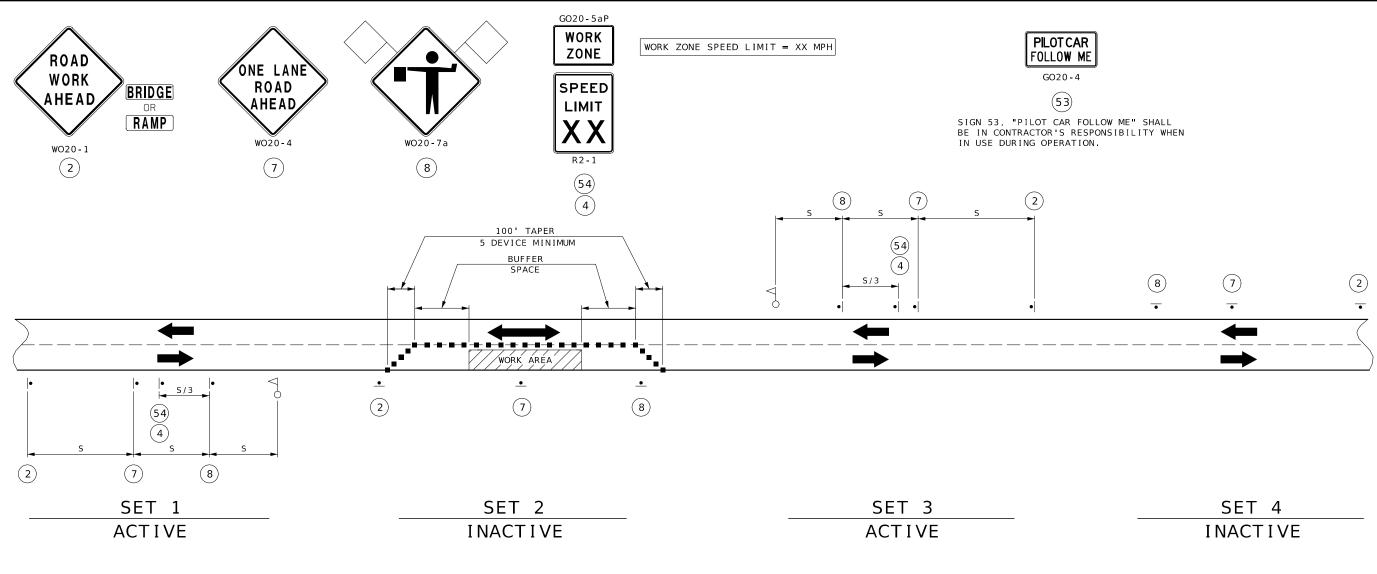
'6/BU37 MΩ DISTRICT SHEET NO SW

CDONALD/BARR J7S3447 CONTRACT ID

PROJECT NO.







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

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

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.

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/ WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING NOTES:

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

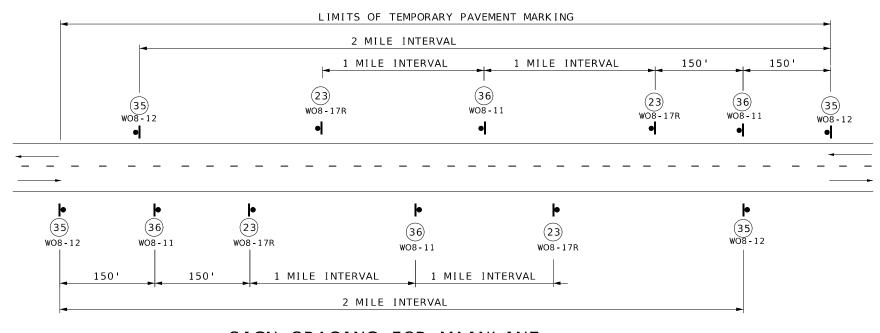
SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

MOVING FLAGGER OPERATION
(UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL SHEET 2 OF 6

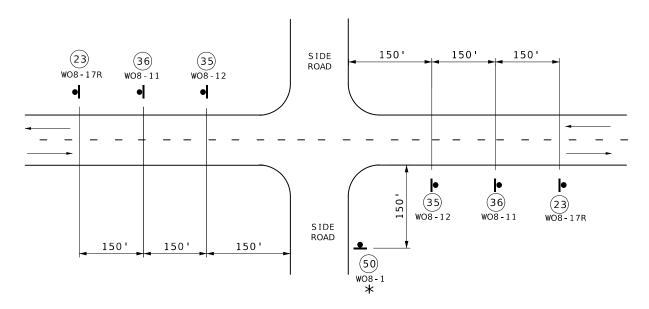
DARRELL RAY COOK Dunell R Cool 7/28/2023 76/BU37 M∩ DISTRICT SHEET NO SW 9 MCDONALD/BARR J7S3447 CONTRACT ID. PROJECT NO. BRIDGE NO.



SIGN SPACING FOR MAINLINE

(DETAIL SHOWN IS BASED ON A PROJECT MEETING ALL CONDITIONS: NO CENTER STRIPE, UNEVEN LANES, SHOULDER DROP-OFF AND BUMP.)
WHEN BOTH UNEVEN LANES AND SHOULDER DROP-OFF SIGNS ARE USED, BOTH SIGHS SHALL STAY IN PLACE UNTIL BOTH CONDITIONS NO LONGER EXIST.

IF ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP-OFF). THE SIGN SPACING SHALL BE AT 1 MILE INTERVALS.



SIGN SPACING AT SIDE ROAD INTERSECTIONS

★ BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10. UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.







WO8 - 17R WO8 - 17p







GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE STD. 620.10, SHEET 1 OF 5.

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.

FOR BRIDGE EXCEPTIONS AND COLDMILLED AREAS, LOCATION OF SIGN (50) TO BE APPROVED BY THE ENGINEER. UNLESS REQUIRED BY STANDARD PLAN 619.10, SIGN (50) AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.

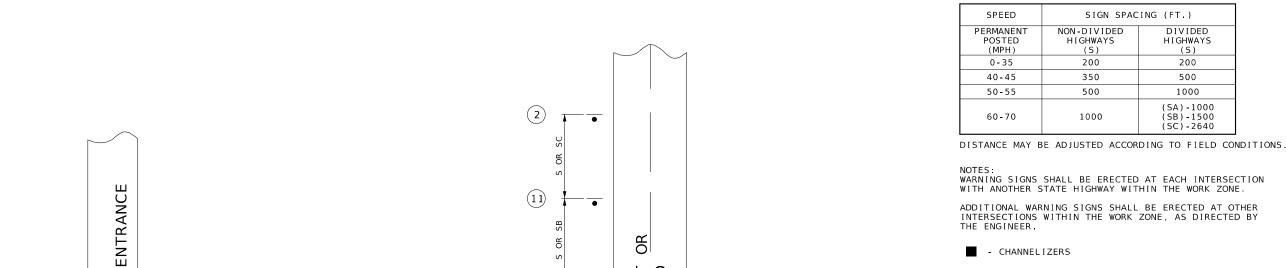
NOT TO SCALE

TRAFFIC CONTROL SHEET 3 OF 6

DARRELL RAY COOK NUMBER PE-200500097 Durell R Cool 7/28/2023 76/BU37 MO DISTRICT SHEET NO SW 10 MCDONALD/BARR J7S3447 CONTRACT ID PROJECT NO. BRIDGE NO.

REVISED: 4/24/2023

SIDE ROADS ENTERING WORK ZONES



ROAD

CITY STOUNTY

WORK

AHEAD

WO20-1

2

CHANNELIZERS SPACED 5 FT APART

WIDTH.

AND EXTENDED 20 FT PAST ENTRANCE

PREPARED

TO STOP

WO3 - 4

(11)

(8)

<u>(58</u>)*

18" X 12"

(58)

(8)

(11)

(2)

42" X 30"

100' TAPER WITH

5 CHANNELIZER

MINIMUM

ROUT

STATE

OR I AL

PRIVATE COMMERCI

CENTERLINE

60

- CHANNELIZERS

- FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

PILOT CAR IN USE WAIT & FOLLOW

(58)

SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER

* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

PILOT CAR IN USE WAIT & FOLLOW

> 24° X 18° (60)

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10

WO20-7a

(8)

NOT TO SCALE

TRAFFIC CONTROL SHEET 4 OF 6

DARRELL RAY COOK NUMBER Durell R Cook

7/28/2023 76/BU37 MO DISTRICT SHEET NO

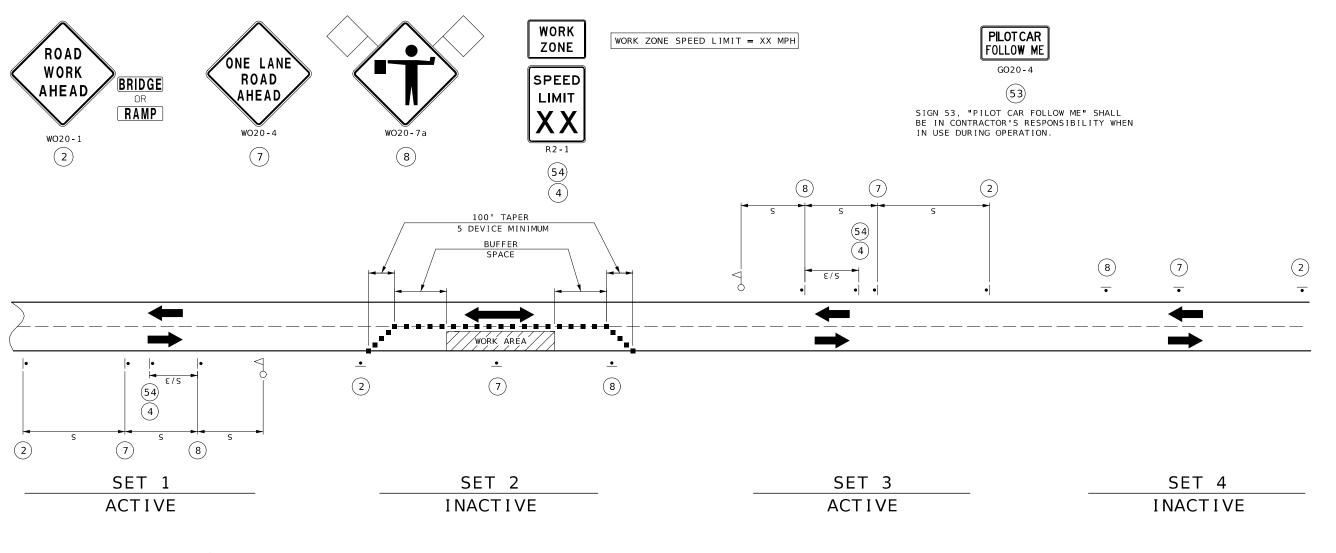
11

MCDONALD/BARR J7S3447 CONTRACT ID.

SW

PROJECT NO.

BRIDGE NO.



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40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING 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, AS APPROVED BY ENGINEER.

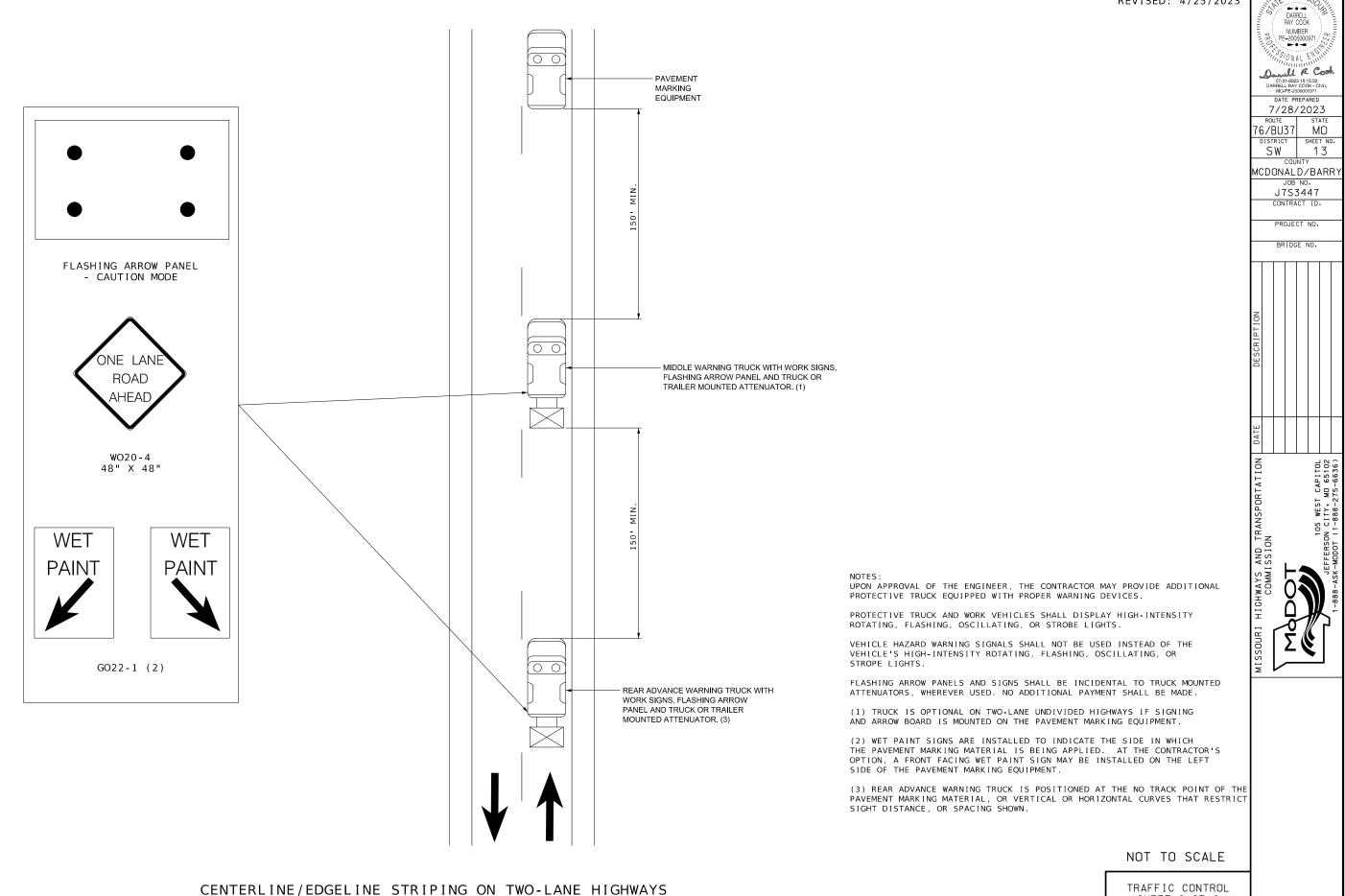
MOVING FLAGGER OPERATION (UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL SHEET 5 OF 6

DARRELL RAY COOK mell R Cook 07-31-2023 15:15:19 DARRELL RAY COOK - CIVIL MO-PE-2005000971 7/28/2023 '6/BU37 MO SHEET NO 12 SW MCDONALD/BARR J7S3447 CONTRACT ID. PROJECT NO. BRIDGE NO.

REVISED: 4/25/2023



SHEET 6 OF 6

																	1													EFFECTIVE 07-01-2022		OF M/SSO
		SIC	GNS		CONCRETE	5	STRUCTURAL POSTS	STEEL	-	PIP	E PO	STS	*	E	BACKIN	G Y	U- CHANNEL						RATED	SQUA	ARE						III AT	DARRELL RAY COOK
902 SI	GNAL SI	GNS TAB	ULATED	ON D-37A SHEE1	EMBEDDED		FU313) 							DANS TA	**	POST				N. POS	ANCHORS					5 IN. POS 2.25"	ANCHORS	BREAK-	AND	THE PI	NUMBER PE-2005000971
SIGN S	IGN IZE	OG MILE	HORZ CLEAR IF NOT STD	LOCATION SIGN DTL. SHT.	ITEM NO. 9031010	POST DES NO.	POST POST POST NO.1 NO.2 NO.	T LBS TC 3 PER ITE FT 903	OTAL P EM NO. S 31210	IPE POS	T POST 1 NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	NO.	2" X 3" BAR .55 LBS PER LGTH TOTA	LTOTAL	ITEM NO. 9031250A	POST I	NO.2	ITEM NO. I 9031270A 9	12-GA. TEM NO. 1031271A	7-GA. ITEM NO. 9031273A	CONCRET 7-GA. ITEM NO. 9031274	NO.1	NO.2	TOTAL ITEM NO. 9031280	INSERT (6 FT) ITEM NO. 9031272A		. ITEM NO. 9031241	.	Λ	9/0 NAL ENGINE 20 NAL ENGINE 31-2023 15:15:43 ELL BAY COOK- CIVIL D-PE-2005000971
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3		36.637 37.128			0.09	-																		16 16		16 16		1 1	1 1	REUSE CURVE LT SIGN AND POST REUSE BRIDGE SIGN AND POST	ROUTE	28/2023 STATE
5		37.198			0.09																			16 16		16 16		1	1 1	REUSE BRIDGE SIGN AND POST	76/BU	CT SHEET
6		38.356 38.436			0.18																			16	16	32		2	2	REUSE SPEED LIMIT SIGN AND POST REUSE DESTINATION SIGN AND POST	SW	
7 8		38.697 38.757			0.09																			16 16	16	16 32		2	2	REUSE 76 & 86/ ARROW SIGN AND POST REUSE DESTINATION SIGN AND POST	MCDON	JOB NO.
9		39.436			0.09																			16 16		16 16		1	1	REUSE CHEVRON SIGN AND POST	J7	7S3447
0		39.456 39.476			0.09																			16		16		1 1	1	REUSE CHEVRON SIGN AND POST REUSE CHEVRON SIGN AND POST		NTRACT ID.
3		39.496 43.036			0.09																			16		16		1	1 1	REUSE CHEVRON SIGN AND POST REUSE CURVE RT SIGN AND POST		ROJECT NO.
4		45.257			0.09																			16		16		1	1	REUSE REVERSE CURVE RT SIGN AND POST	BF	RIDGE NO.
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					4 10	0.79	0.90 5'-		18"			0.36				6	W12	35.C		2.92 5	′-6″	36"	5'-6" 1	.44	5'-9"	1.52	5'-11"	1.56 6'-3"	1.65	- D-29		

