#### DESIGN DESIGNATION

A.A.D.T. - 2021 = 1618 T = 4.3%

V = 40 M.P.H. - 60 M.P.H.

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NORMAL ACCESS R/W

# 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	0000	
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	-F0- -OTV- -UTV- -OT- -UT- -OE- -UE- -S- -SS- -G-	-F0 -0TV -0TV -0T -0E -0E -0E -S -SS -6 -W
MANHOLE	SAN	)
FIRE HYDRANT	WV C	]
WATER VALVE	wv ww	)
WATER METER	‴.	)
DROP INLET	<u>"</u>	
DITCH BLOCK	SIGN	<b>-</b>
GROUND MOUNTED SIGN	3101	_
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED V X	
BENCHMARK	⊗	)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

BARTON COUNTY

DADE COUNTY



#### D BRIDGE A4264 $\frac{2.7\,\text{W}}{2.6\,\text{W}}$ $\alpha$ <u>م</u> م 2 29/28 27 26 .;30 29 28 27 T32N T31N T31N 03 10 -BRIDGE A4821 EXCEPTION BRIDGE A2541 EXCEPTION -BRIDGE A4822 22 GOLDEN GREENFIELD LOCKWOOD 27 T31N T30N 31 32 33 34 35 36 /[3<sup>1</sup>] 32 33 34 35 T31N T30N 11 $\mathbb{N}$ LOG 33.420-33.470 BRIDGE H09011 REHABILITATION 36.280 90 PROJECT PROJE( 944 ADA WORK CULVERT EXTENSIONS GIN 06 2 END PROJECT LIMITS 1.75" BP-2 2' SHOULDERS WITH RUMBLE STRIPS

#### NOT TO SCALE

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

### INDEX OF SHEETS

SHEET NUMBER
1
2
3
4-15
16-24
25-30
1

INTE OF	MISSOLL										
OF MSO ORNIC ALAN MITZER NUMBER PE-2000015045											
17,0/ONAL EMMIN											
axig 1	witz										
CRAIG ALAN S	09/08/2024 1:57:19/PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045										
DATE PR	REPARED										
	/2024										
ROUTE	STATE										
	STATE										
160	MO										
160 DISTRICT											
160 DISTRICT SW	MO SHEET NO.										
160 DISTRICT SW	MO SHEET NO. 1										
160 DISTRICT SW COU BARTON	MO SHEET NO. 1 NTY DADE										
160 DISTRICT SW COU BARTON JOB	MO SHEET NO. 1 NTY DADE NO.										
160 DISTRICT SW COU BARTON JOB JSR(	MO SHEET NO.  1 NTY DADE NO. 0042										
160 DISTRICT SW COU BARTON JOB JSRO CONTRA	MO SHEET NO. 1 NTY DADE NO. 0042										
DISTRICT SW COU BARTON JOB JSRO CONTRA	MO SHEET NO.  1 NTY DADE NO. 0042										

## LENGTH OF PROJECT

BEGINNING OF PROJECT EB LOG MILE 21.046 END OF PROJECT EB LOG MILE 49.944

APPARENT LENGTH 152.581.44 FEET

## EQUATIONS AND EXCEPTIONS:

BRIDGE A4264		
LOG MILE 24.180-24.238	306.24	FEET
BRIDGE A4821		
LOG MILE 36.860-36.900	211.20	FEET
BRIDGE A4822		
LOG MILE 37.000-37.040	211.20	FEET
BRIDGE A2541		
LOG MILE 45.500-45.535	184.80	FEET
CONCRETE PAVEMENT EXCEPT	FION	
		FFFT
LOG MILE 42.954-43.294	1795.20	FEET
LOG MILE 44.638-45.500	4551.36	
LOG MILE 45.535-46.281	3938.88	FEET
LOG MILE 49.828-49.944	612.48	FEET

TOTAL CORRECTIONS	-11811.36	FEET
NET LENGTH OF PROJECT	140,770.08	FEET
STATE LENGTH	26.661	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	14.06	ACRES



NOTES: AS APPROVED BY THE ENGINEER, THE 2' MODIFIED TYPE A2 OR A3 SHOULDER MAY BE REDUCED TO 1' MINIMUM WIDTH IN SPECIFIC AREAS BASED ON EXISTING FIELD CONDITIONS. THE MODIFIED TYPE A2 OR A3 SHOULDER SHALL NOT BE BUILT IN AREAS WHERE THE EXISTING SLOPE. GUARDRAIL, OR CULVERT HEADWALLS DO NOT PERMIT, SEE JOB SPECIAL PROVISIONS.

IF THE CONTRACTOR ELECTS TO USE CONCRETE FOR THE SHOULDERS, THE QUANTITY OF ASPHALT AND TACK SHALL BE ADJUSTED IN ACCORDANCE WITH THE JOB SPECIAL PROVISION-OPTIONAL SHOULDER.

MODIFIED LINEAR GRADING CLASS 2 FOR SHOULDERS EXTENDS BEYOND DITCH LINE ONTO BACKSLOPE (2:1 MAX, GRADE DITCH TO DRAIN)

LINEAR GRADING CLASS 2 FOR SHOULDERS CONFINED TO FORESLOPE.

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 BP-1 (PG64-22) 1.975 TONS/CY 5.5 1.965 TONS/CY BP-2 (PG64-22) 5.5

TACK COAT

OVERLAY (UNDILUTED)

0.08 GAL/SY

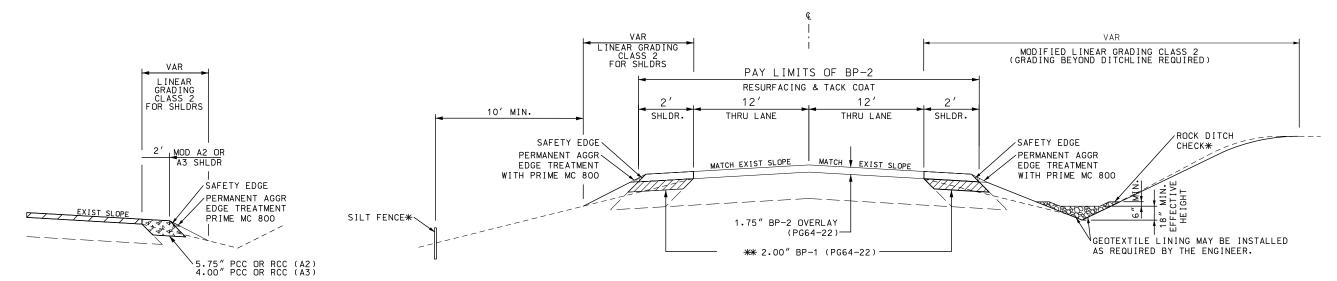
PERMANENT AGGREGATE EDGE TREATMENT PRIME LIQUID ASPHALT MC 800 590 GAL/MI

AGGREGATE

200 TON/MI

IRREGULARITIES: 75 TONS/MI

NOTE: USE IRREGULARITIES OF 150 TONS/MILE FROM LOG MILE 29.462 TO LOG MILE 35.704 AS WEDGING FOR CROSS SLOPE CORRECTION IN THE WESTBOUND LANE.



CONCRETE SHOULDERS

\*\*\* LOG MILE 38.500 TO LOG MILE 38.558 1.75" BP-2 MILL AND FILL, ADD 2' SHOULDERS, FROM EAST BRIDGE END OF J0064 TO RAILROAD CROSSING

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

ROUTE 160

LOG MILE 21.046 TO LOG MILE 23.999 LOG MILE 24.577 TO LOG MILE 33.420 LOG MILE 33.470 TO LOG MILE 35.704 LOG MILE 35.706 TO LOG MILE 35.774 LOG MILE 37.116 TO LOG MILE 38.440 LOG MILE 38.500 TO LOG MILE 38.558 \*\*\* LOG MILE 38.560 TO LOG MILE 42.954 LOG MILE 43.294 TO LOG MILE 43.496 LOG MILE 44.592 TO LOG MILE 44.638 LOG MILE 46.281 TO LOG MILE 49.828

RAILROAD EXCEPTIONS LOG MILE 35.704 TO LOG MILE 35.706 LOG MILE 38.558 TO LOG MILE 38.560 \*\* USE 4.00" BP-1 (PG64-22)

IN THESE LIMITS: LM 21.046 TO LM 23.999 LM 24.577 TO LM 29.508 LM 33.269 TO LM 33.420 LM 33.470 TO LM 35.704 LM 35.706 TO LM 35.774 LM 37.116 TO LM 38.440 LM 38.500 TO LM 38.558 LM 38.560 TO LM 42.954 LM 43.294 TO LM 43.496

NOT TO SCALE

TYPICAL SECTIONS SHEET 1 OF 16

CRAIG ALAN SWITZER NUMBER SONAL E 09/17/2024 8:02:22PAM 09/17/2024 8:02:22PAM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 9/17/2024

160 MO SHEET NO SW

BARTON, DADE JSR0042 CONTRACT ID.

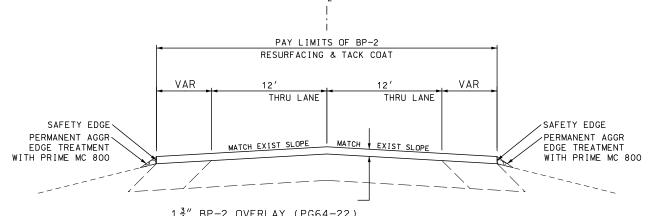
PROJECT NO BRIDGE NO

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



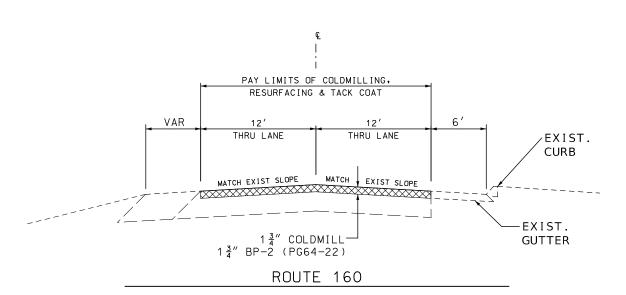
 $1\frac{3}{4}$ " BP-2 OVERLAY (PG64-22)

## ROUTE 160 LOG MILE 23.999 TO LOG MILE 24.180 LOG MILE 24.238 TO LOG MILE 24.577 LOG MILE 35.774 TO LOG MILE 36.860 LOG MILE 36.900 TO LOG MILE 37.000 LOG MILE 37.040 TO LOG MILE 37.116 LOG MILE 43.496 TO LOG MILE 43.540 LOG MILE 44.183 TO LOG MILE 44.592

ASPHALT FACTORS COMBINED FACTOR % AC BP-2 (PG64-22) 1.965 TONS/CY 5.5 TACK COAT MILLING (UNDILUTED) 0.10 GAL/SY OVERLAY (UNDILUTED) 0.08 GAL/SY PERMANENT AGGREGATE EDGE TREATMENT PRIME LIQUID ASPHALT MC 800 590 GAL/MI AGGREGATE 200 TON/MI

> NOTE: USE IRREGULARITIES OF 150 TONS/MILE FROM LOG MILE 29.462 TO LOG MILE 35.704 AS WEDGING FOR CROSS SLOPE CORRECTION IN THE WESTBOUND LANE.

IRREGULARITIES: 75 TONS/MI

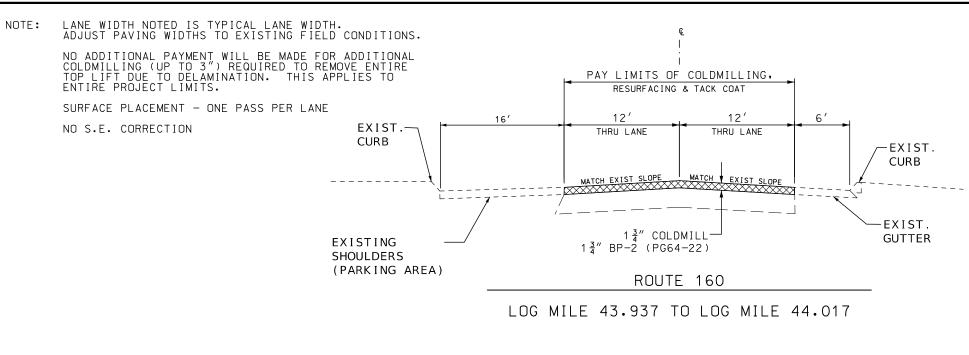


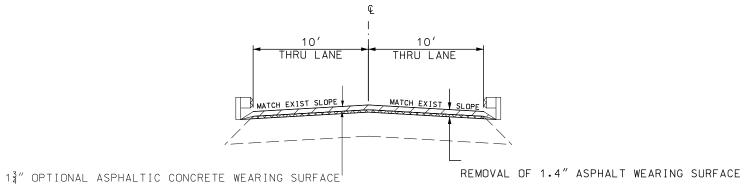
LOG MILE 43.540 TO LOG MILE 43.937 LOG MILE 44.017 TO LOG MILE 44.183

NOT TO SCALE

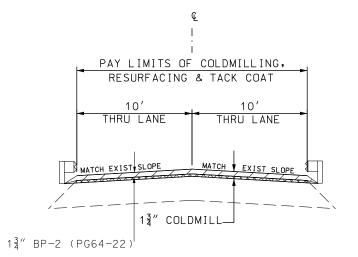
TYPICAL SECTIONS SHEET 2 OF 16

CRAIG ALAN SWITZER NUMBER PE-2003015045 9/16/2024 160 MO SHEET NO SW 2 BARTON, DADE JSR0042 CONTRACT ID. PROJECT NO. BRIDGE NO.





## ROUTE 160 (BRIDGE H09011) LOG MILE 33.420 TO LOG MILE 33.470 (SEE BRIDGE PLANS)



ROUTE 160 (BRIDGE J0064)

LOG MILE 38,440 TO LOG MILE 38,500

ASPHALT FACTORS

COMBINED FACTOR % AC

BP-2 (PG64-22) 1.965 TONS/CY

5.5

TACK COAT

MILLING (UNDILUTED) OVERLAY (UNDILUTED)

0.10 GAL/SY 0.08 GAL/SY

PERMANENT AGGREGATE EDGE TREATMENT PRIME LIQUID ASPHALT MC 800 590 GAL/MI

AGGREGATE

200 TON/MI

IRREGULARITIES: 75 TONS/MI

NOTE: USE IRREGULARITIES OF 150 TONS/MILE FROM LOG MILE 29.462 TO LOG MILE 35.704 AS WEDGING FOR CROSS SLOPE CORRECTION IN THE WESTBOUND LANE.

CRAIG ALAN SWITZER NUMBER 09/08/2024 1:57:54PM CRAIG ALAN SWITZER - CIVIL 8/29/2024 MO SHEET NO

160

SW

BARTON, DADE

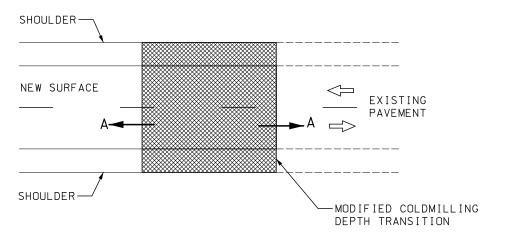
JSR0042 CONTRACT ID.

PROJECT NO.

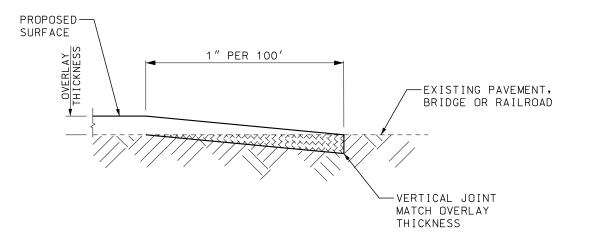
BRIDGE NO.

NOT TO SCALE

TYPICAL SECTIONS SHEET 3 OF 16



MAINLINE, BRIDGE AND RAILROAD PLAN



SECTION A-A

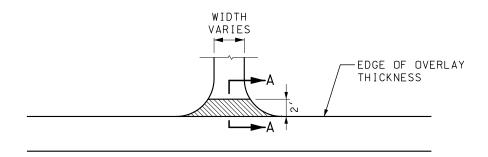
TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, BRIDGE, OR RAILROAD

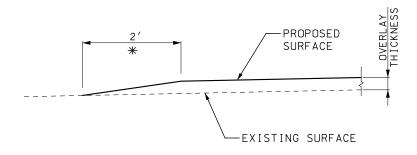
NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.

09/08/2024 1:58:09/PM CRAIG ALAN SWITZER - CMIL MO-PE-200301:5045 DATE PREPARED 8/12/2024 160 MO DISTRICT BARTON, DADE JOB NO.
JSR0042
CONTRACT ID. PROJECT NO. BRIDGE NO.

NOT TO SCALE

TYPICAL SECTIONS SHEET 4 OF 16



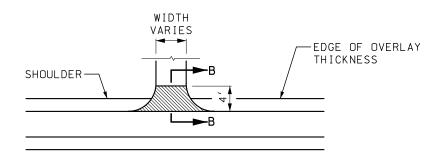


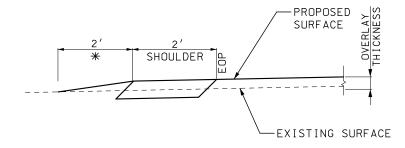
SECTION A-A

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

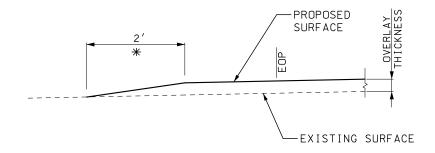
NOTE: 4 TONS GRAVEL A OR CRUSHED STONE B CALCULATED PER ENTRANCE.

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.

CRAIG ALAN SWITZER NUMBER PE-2000015045

MO-PE-2003015045

DATE PREPARED

8/12/2024

ROUTE STATE
160 MO
DISTRICT SHEET NO
SW 2

BARTON, DADE

JOB NO.

JSR0042

CONTRACT ID.

PROJECT NO.

DESCRIPTION

BEIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATIC
COMMISSION

TO DOT

105 WEST CAPITY

THEREBROW CITY, MO 651

1-888-545-WINDOT (1-888-575-688)

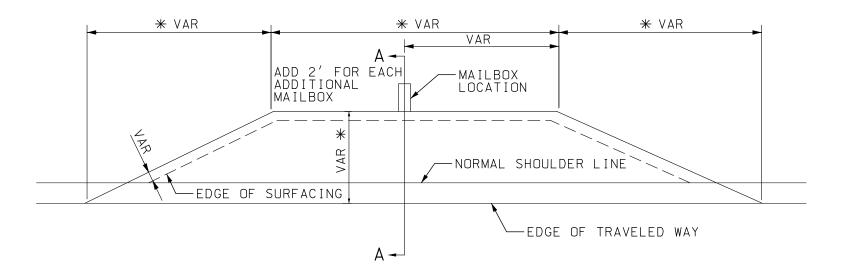
NOT TO SCALE

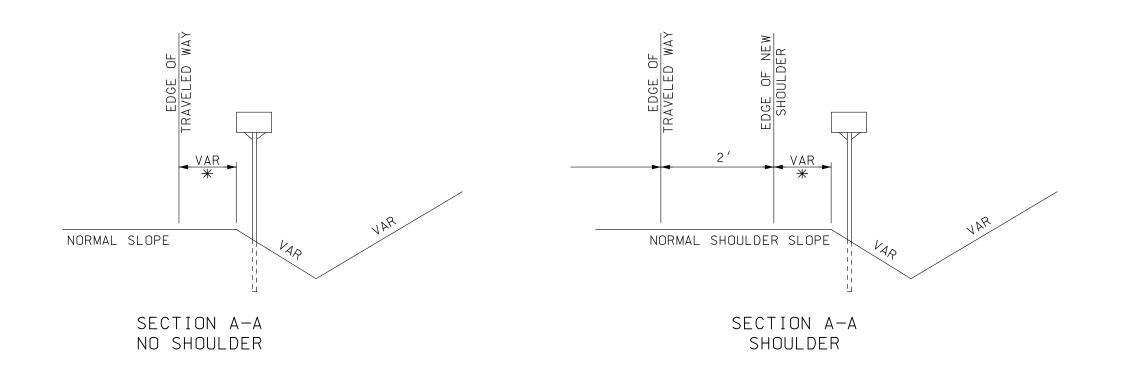
TYPICAL SECTIONS SHEET 5 OF 16

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





NOT TO SCALE

TYPICAL SECTIONS SHEET 6 OF 16 8/12/2024

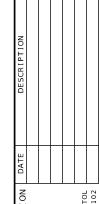
ROUTE STATE
160 MO

DISTRICT SHEET NO
SW 2

COUNTY
BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



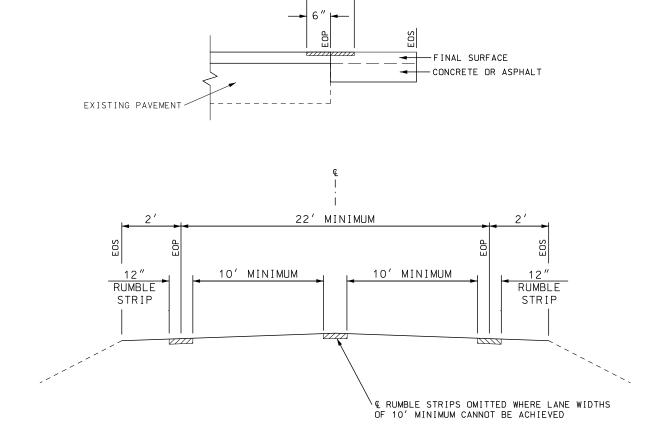


REVISED: 4-16-2020

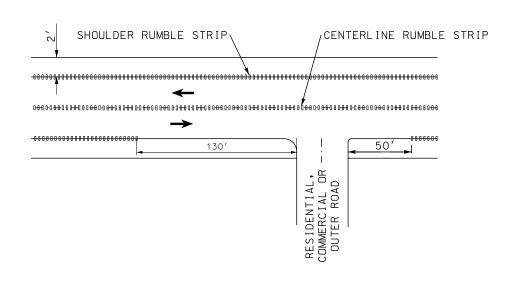
## RUMBLE STRIPS FOR 2' MODIFIED A2 OR A3 SHOULDERS

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

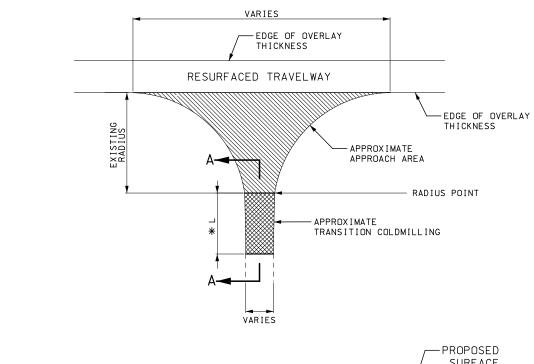


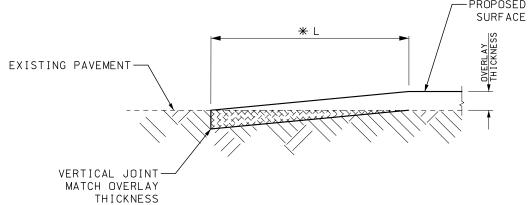
Modo

NOT TO SCALE

TYPICAL SECTIONS SHEET 7 OF 16

8/29/2024 160 SW BARTON, DADE JOB NO. JSRO042 CONTRACT ID. PROJECT NO. BRIDGE NO.



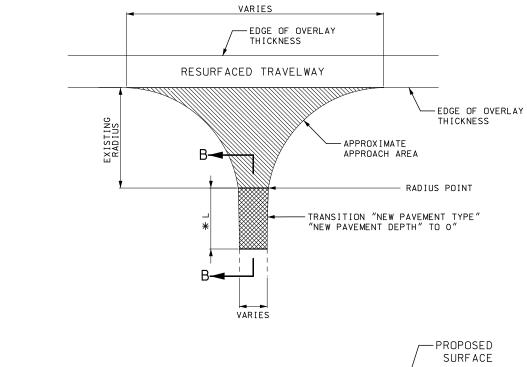


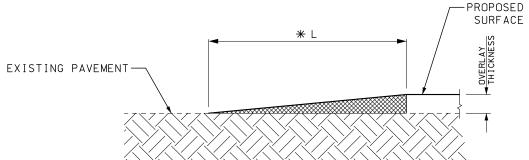
SECTION A-A

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

#### \* TRANSITION LENGTHS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)							
1 "	20.0′							
1 ¼"	30.0′							
1 ½"	40.0′							
1 <del>3</del> "	50.0′							





SECTION B-B

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

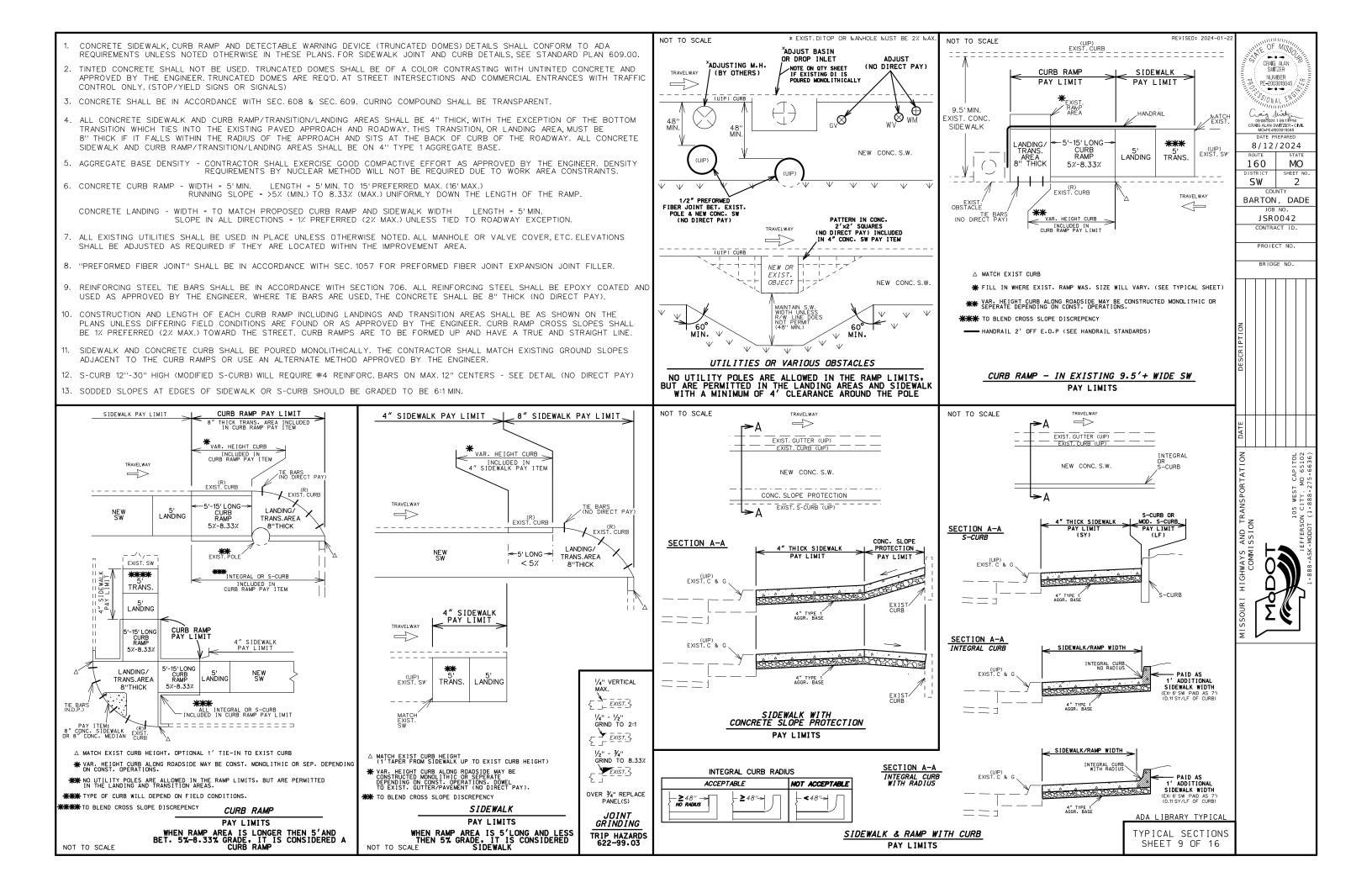
## \* TRANSITION LENGTHS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1 "	20.0′
1 ¼″	30.0′
1 ½"	40.0′
1 <del>3</del> ″	50.0′

NOT TO SCALE

TYPICAL SECTIONS SHEET 8 OF 16

8/12/2024 160 MO SW BARTON, DADE JSR0042 CONTRACT ID. PROJECT NO. BRIDGE NO.



WIDTH (LF)	4	5	6	4	5	6	4	5	6	
LENGTH (LF)		- 8			12			16		REMARKS
TYPE 1-E										
SODDING SY	-	11.0	11.3	-	13.0	13.3	-	14.5	14.9	
ADA LINEAR GRADINGLF	-	42.0	50.0	-	57.0	61.0	-	67.0	72.0	
TYPE 1 AGGREGATE SY	-	29.8	35.6	-	35.2	41.8	-	39.1	46.7	
CONC. SIDEWALK SY	-	11.2	12.8	-	11.2	12.8	-	9.8	11.4	
CURB RAMP SY	-	18.6	22.8	-	24.0	29.0	-	29.3	35.3	

4 5 6

WIDTH (LF) 4 5 6 4 5 6

18.0 24.0

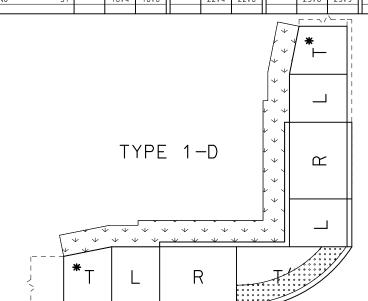
REMARKS

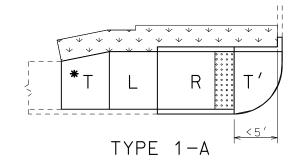
TYPE 1-D

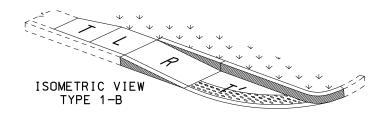
LENGTH (LF)

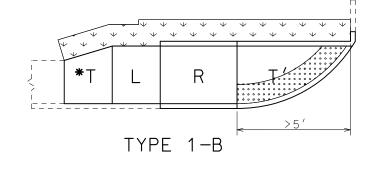
LENGTH (LF)		8			12			16		REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	18.0	24.0	-	18.0	24.0	-	18.0	24.0	
CURB RAMP SY	-	14.8	19.0	-	20.1	25.2	-	25.5	31.4	
CONC. SIDEWALK SY	-	11.2	12.8	-	11.2	12.8	-	9.8	11.4	
TYPE 1 AGGREGATE SY	-	26.0	31.8	-	31.3	38.0	-	35.3	42.8	
ADA LINEAR GRADINGLF	-	43.0	46.0	-	52.0	55.0	-	59.0	62.0	
SODDING SY	-	13.3	13.6	-	16.0	16.9	-	18.6	19.3	

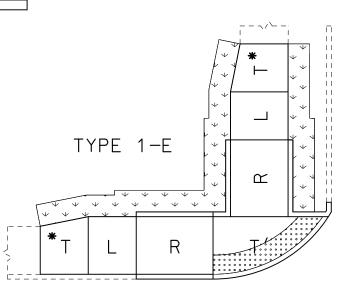
TYPE 1-F										
LENGTH (LF)		8		12				16		REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	14.0	16.0	-	14.0	16.0	-	14.0	16.0	
CURB RAMP SY	-	15.5	19.0	-	20.8	25.2	-	26.2	31.4	
CONC. SIDEWALK SY	-	11.2	12.8	-	11.2	12.8	-	9.8	11.4	
TYPE 1 AGGREGATE SY	-	26.7	31.8	-	32.0	38.0	-	36.0	42.8	
ADA LINEAR GRADINGLF	-	43.0	46.0	-	52.0	55.0	-	59.0	62.0	
SODDING SY	-	18.4	18.8	-	22.4	22.8	-	25.6	25.9	

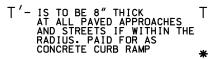












T - TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED AT PAVED APPROACH IF CONDITIONS ALLOW)

\* - T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

– LANDING

R - RAMP

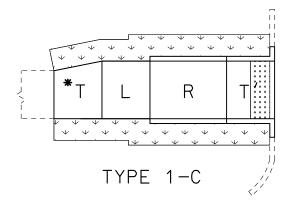
- CURB RAMP PAY LIMITS

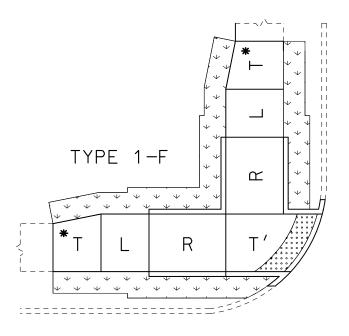
→ → − SOD SLOPE 6:1 MIN.

- TRUNCATED DOME LOCATION IF DIST. IS < 5' OR >5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.





ADA LIBRARY TYPICAL

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SECTIONS SHEET 10 OF 16

OF MISSON

REVISED: 2022-05-18

09 09/2024 1:59:29 PM CRAIG ALAN SWITZER-CIVIL MODE-2003015045 DATE PREPARED 8/12/2024

ROUTE STATE
160 MO
DISTRICT SHEET NO.
SW 2

BARTON, DADE

JOB NO.

JSR0042

CONTRACT ID.

PROJECT NO.

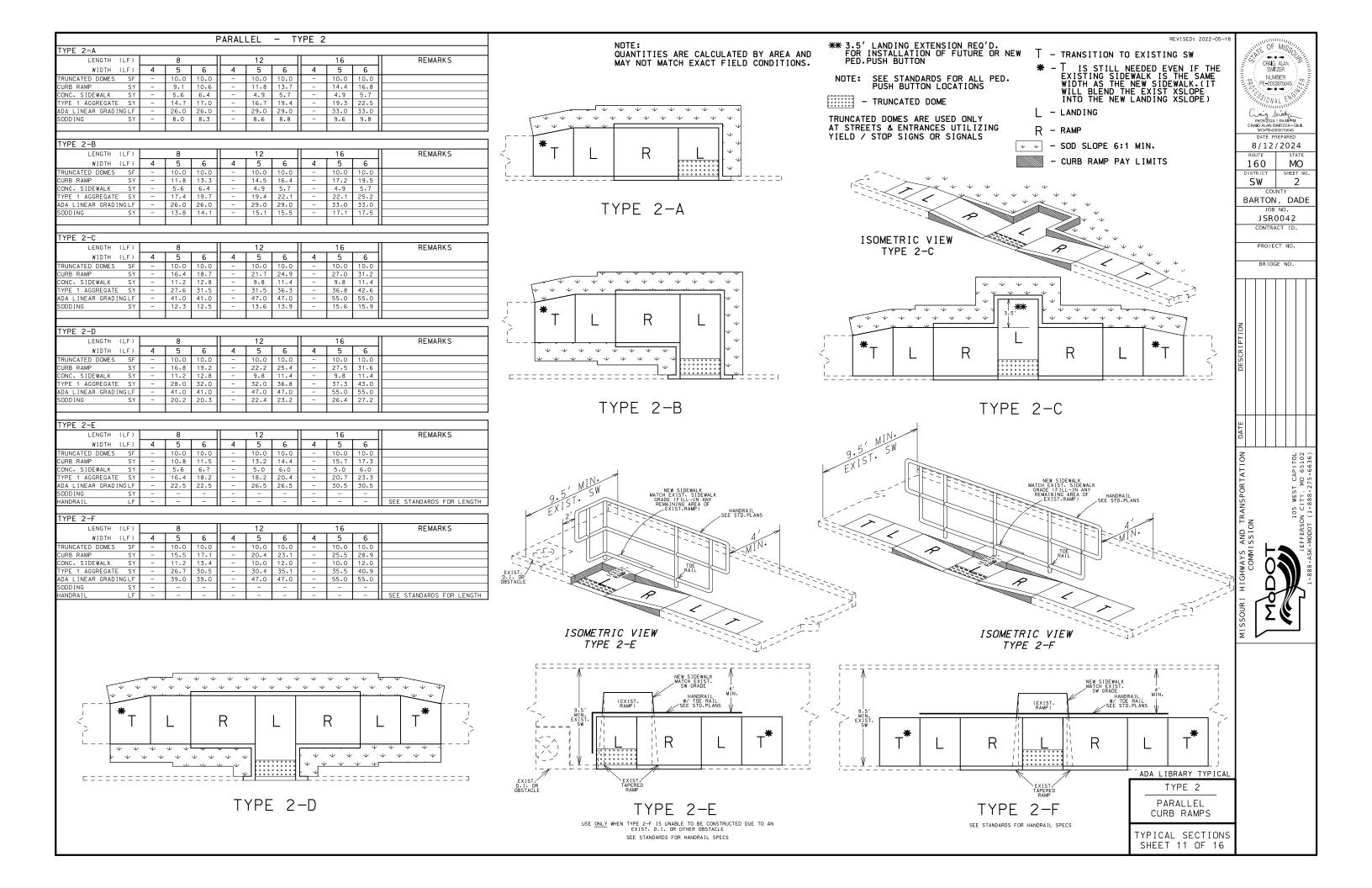
BRIDGE NO.



SSOUR I HIGHWAYS AND TRANSPORTATION
COMMISSION

1.688-ASK-MODOT

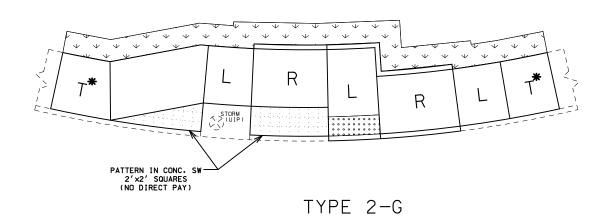
1.688-ASK-MODOT (1.488-275-6536)



PARALLEL - TYPE 2 (cont'd.)													
TYPE 2-G													
LENGTH (LF)		8			12		16			REMARKS			
WIDTH (LF)	4	5	6	4	5	6	4	5	6				
TRUNCATED DOMES SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0				
CURB RAMP SY	-	15.7	18.0	-	20.8	23.7	-	25.8	30.2				
CONC. SIDEWALK SY	-	21.4	25.0	-	17.6	20.3	-	15.2	17.5				
TYPE 1 AGGREGATE SY	-	37.1	43.0	-	38.4	44.0	-	41.0	47.7				
ADA LINEAR GRADINGLF	-	52.0	52.0	-	54.0	54.0	-	58.0	58.0				
SODDING SY	-	13.6	13.6	_	13.7	13.5	_	14.5	14.9				

TYPE 2-H										
LENGTH (LF) 8					12			16		REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	15.7	18.0	-	21.0	24.5	-	26.9	31.4	
CONC. SIDEWALK SY	_	13.2	16.0	_	12.0	14.2	-	12.0	14.4	
TYPE 1 AGGREGATE SY	-	28.9	34.0	-	33.0	38.6	-	38.9	45.8	
ADA LINEAR GRADINGLF	-	42.0	42.0	-	49.0	49.0	-	55.0	55.0	
SODDING SY	-	11.1	11.2	-	12.5	12.5	-	14.5	14.9	

ISOMETRIC VIEW
TYPE 2-G



T\*
- IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

→ → - SOD SLOPE 6:1 MIN.

- TRUNCATED DOME LOCATION IF DIST. IS <5' OR > 5'

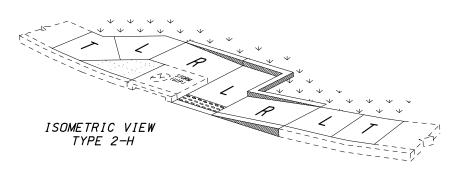
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

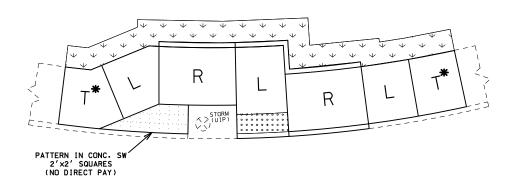
- CURB RAMP PAY LIMITS

- INCLUDED IN 4" CONC. SIDEWALK

PAY LIMIT

NOTE: QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.





TYPE 2-H

CRAIG ALAN
SMIZER
NUMBER
PE-2003015045

REVISED: 2022-05-18

09/08/2024 1:59:5 PPM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045

8/12/2024

ROUTE STATE
160 MO

DISTRICT SHEET NO
SW 2

SW 2
COUNTY
BARTON, DADE

JOB NO.
JSR0042
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION IN COMMISSION

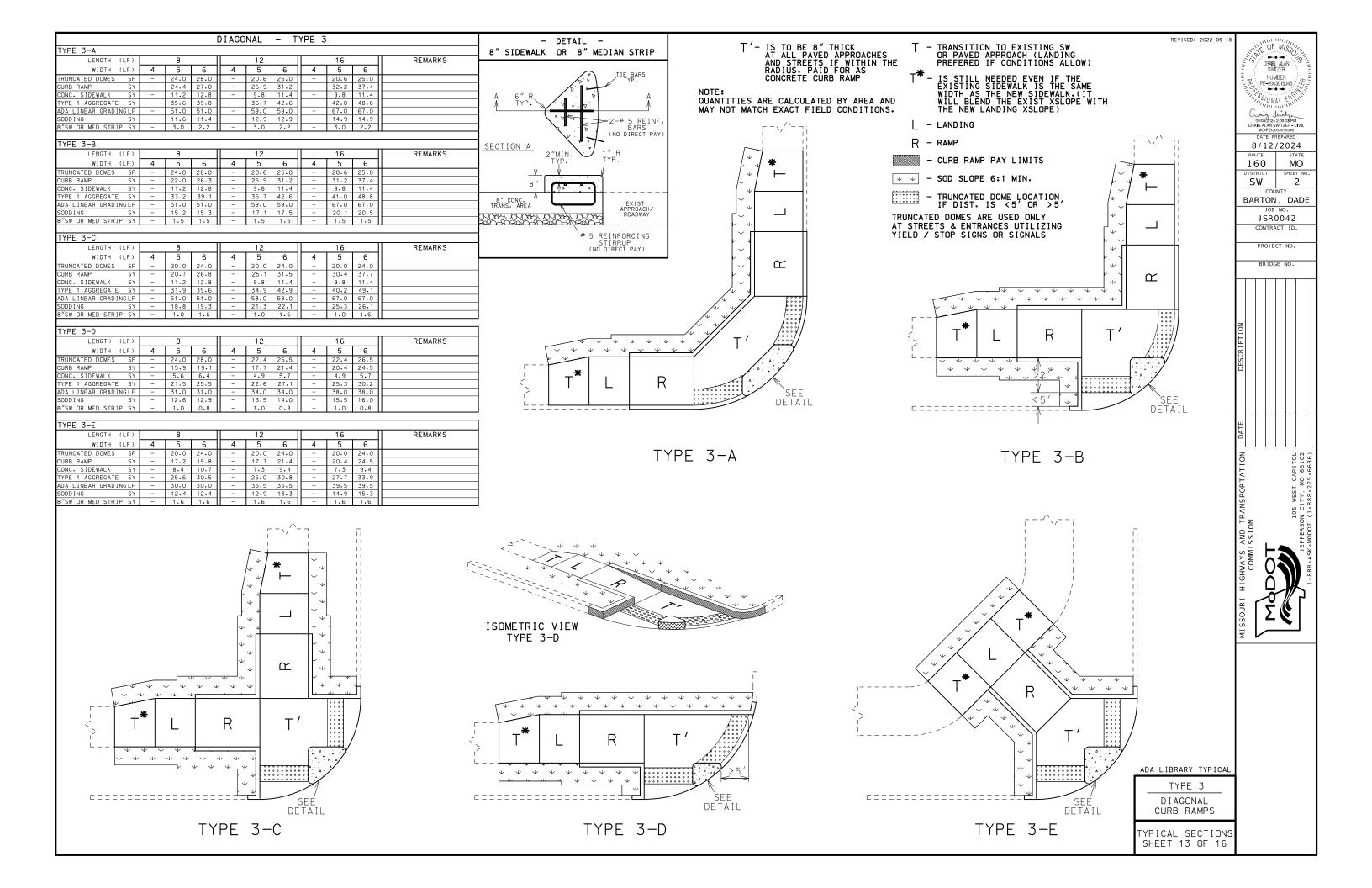
MACHINE TO THE TRANSPORTATION IN COMMISSION IN COMMISSION

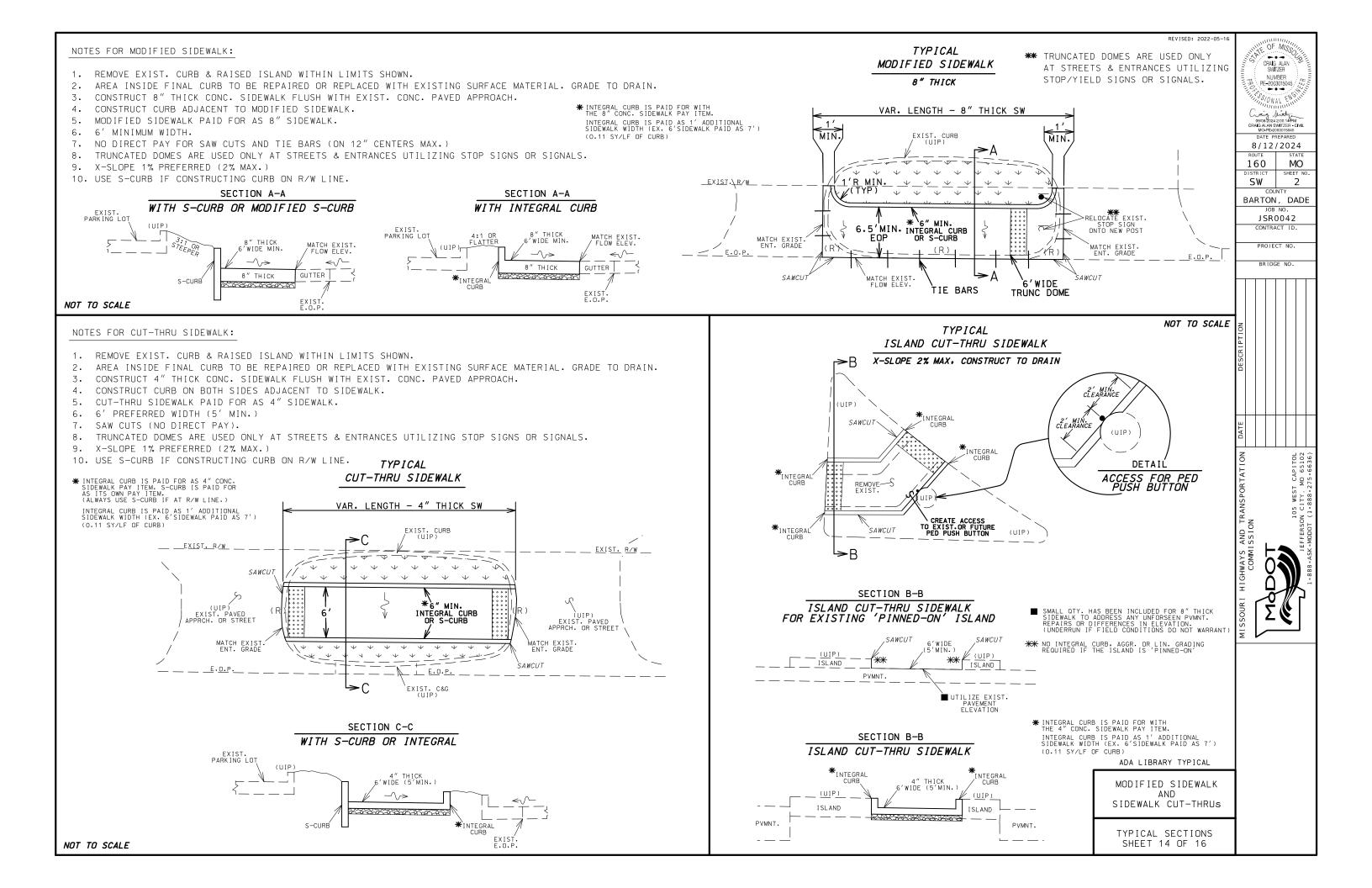
ADA LIBRARY TYPICAL

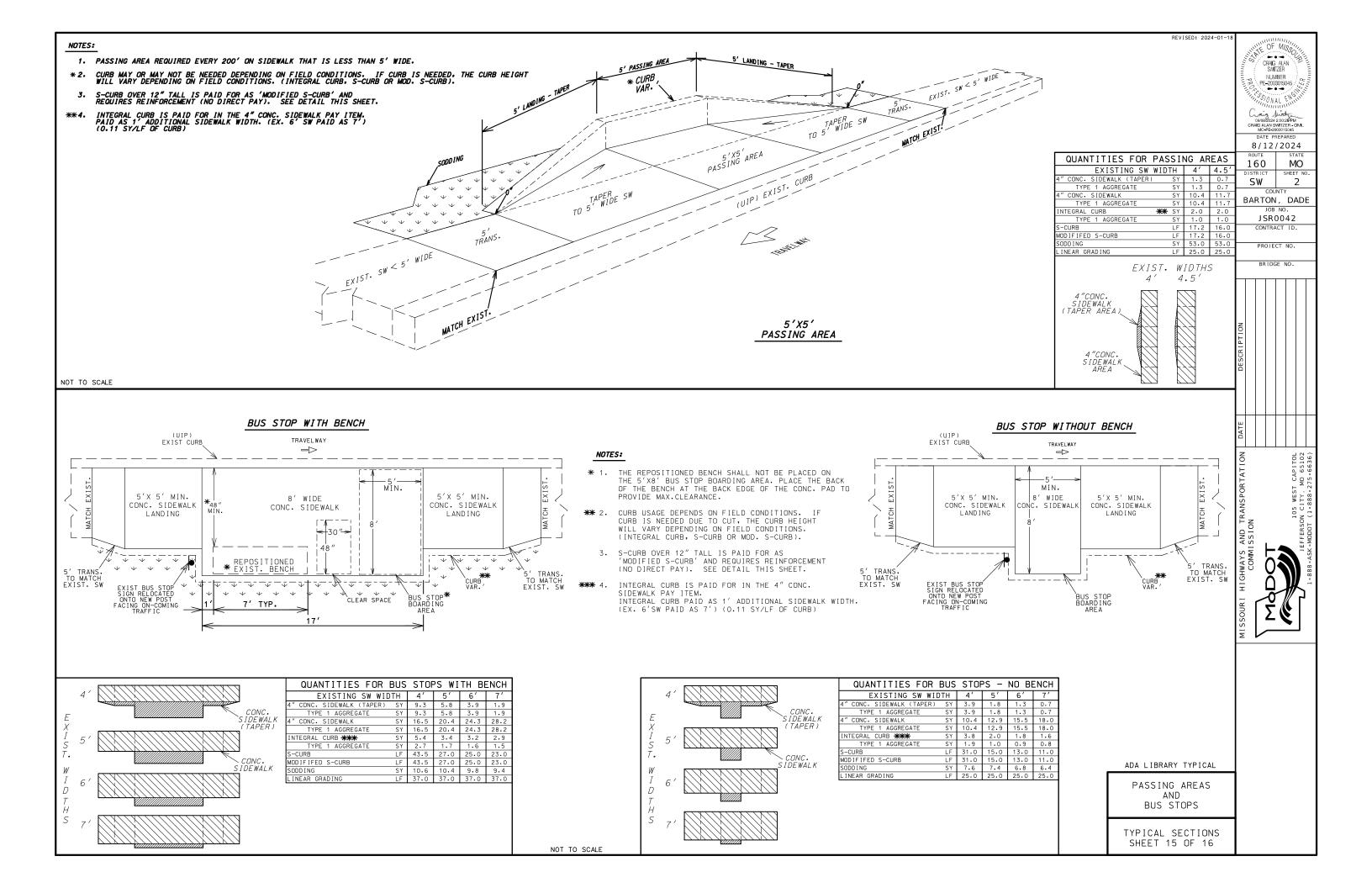
TYPE 2

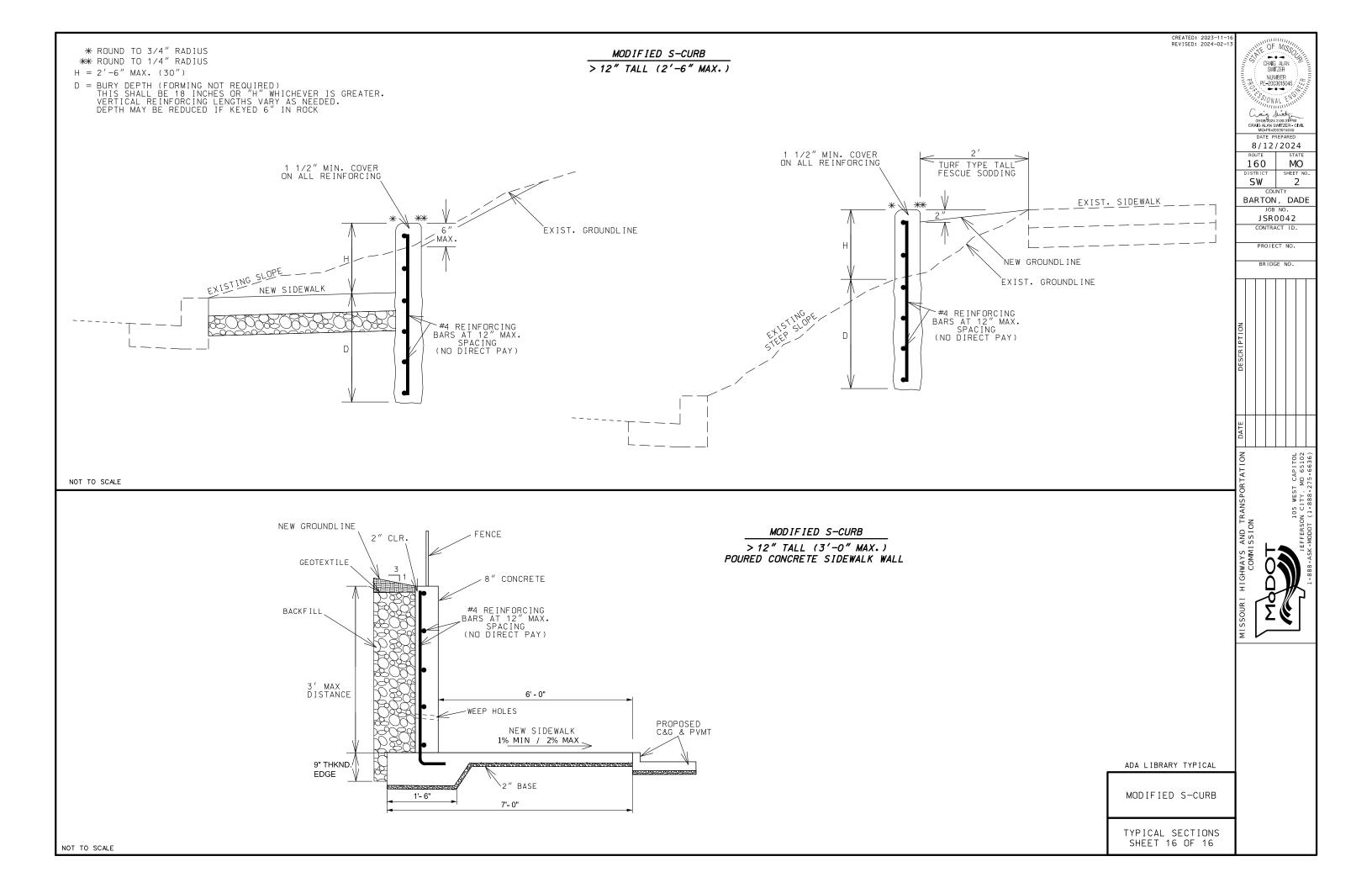
PARALLEL
CURB RAMPS

TYPICAL SECTIONS SHEET 12 OF 16









	REMOVAL OF IMPROVEMENTS									
ROUTE	LOG MILE	-	LOG MILE	LOCATION	DESCRIPTION	UNITS	TOTAL	REMARKS		
160	24.294			LT	ISLAND	EA	1	ISLAND ON RTE A, REMOVE & REPLACE		
160	36.763			RT	ISLAND	EA	1	ISLAND ON RTE 126, REMOVE & REPLACE		
160	44.578	-	44.578	LT & RT	HEADWALL	EA	2			
160	44.59	-	44.59	LT & RT	36" FES	EA	2			
160	46.261	-	46.261	LT & RT	HEADWALL	EA	2			
160	46.395	-	46.395	LT & RT	HEADWALL	EA	2			
160	47.278	-	47.278	LT & RT	HEADWALL	EA	2			
160	48.367	-	48.367	LT & RT	HEADWALL	EA	2			
160	48.534	-	48.534	LT & RT	HEADWALL	EA	2			
160	48.691	-	48.691	LT & RT	HEADWALL	EA	2			
160	49.1	-	49.1	LT & RT	HEADWALL	EA	2			
160	49.315	-	49.315	LT & RT	HEADWALL	EA	2			
160	49.378	-	49.378	LT & RT	HEADWALL	EA	2			
160	49.605	-	49.605	LT & RT	HEADWALL	EA	2			
160	24.147	-	24.271	LT & RT	GUARDRA I L	LF	500	BRIDGE A4264		
160	36.827	-	36.933	LT & RT	GUARDRA I L	LF	500	BRIDGE A4821		
160	36.967	-	37.073	LT & RT	GUARDRA I L	LF	500	BRIDGE A4822		
160	45.479	-	45.560	LT & RT	GUARDRA I L	LF	500	BRIDGE A2541		
			•		•	TOTAL	1 LUMP SUM			

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

MOB	ILIZ	ATION	
1	LUMP	SUM	

CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM

							BITUMINOUS PAV	'EMENT	
				NET	AVERAGE	APPROACH	PAVEMENT		
	LOG		LOG	LENGTH	WIDTH	AREA	1.75" BP-2	TACK	
ROUTE	MILE	ТоІ	MILE	LF	LF	SF	TONS	GAL	REMARKS
160	21.046	-	23.999	15591.8	24.0		3971.6	3326.3	THE PRINCE
160	23.999	T - 1	24.180	955.7	40.0		413.8	339.8	*
160	24.238	- 1	24.577	1789.9	40.0		775.1	636.4	*
160	24.577	- 1	33.420	46691.0	24.0		11893.2	9960.7	
160	33.470	- 1	35.704	11795.5	24.0		3004.6	2516.4	
160	35.706	- 1	35.774	359.0	24.0		91.4	76.6	
160	35.774	- 1	36.722	5005.4	24.0		1300.5	1067.8	*
160	36.722	-	36.860	728.6	28.0		220.9	181.3	*
160	36.900	-	37.000	528.0	28.0		160.0	131.4	*
160	37.040	-	37.116	401.3	28.0		121.6	99.9	*
160	37.116	-	38.407	6816.5	24.0		1736.3	1454.2	
160	38.407		38.440	174.2	22.0		40.7	34.1	WIDTH TRANSITION 24' TO 20'
160	38.440		38.500	316.8	20.0		67.2	56.3	
160	38.500	-	38.524	126.7	22.0		29.6	24.8	WIDTH TRANSITION 20' TO 24'
160	38.524		38.558	179.5	24.0		45.7	38.3	
160	38.560	-	42.954	23200.3	24.0		5909.6	4949.4	
160	43.294	-	43.496	1066.6	24.0		271.7	227.5	
160	43.496	-	43.540	232.3	24.0		60.4	49.6	*
160	43.540		43.937	2096.2	24.0		533.9	447.2	
160	43.937		44.017	422.4	24.0		107.6	90.1	
160	44.017	-	44.183	876.5	24.0		223.3	187.0	
160	44.183	-	44.592	2159.5	24.0		561.1	460.7	*
160	44.592	-	44.638	242.9	24.0		61.9	51.8	
160	46.281	-	49.828	18728.2	24.0		4770.5	3995.3	
Т	0.005	<b>└</b> - │	0.067	327.4		13386.0	142.1	119.0	
Α	11.117	<b>└</b> - │	11.141	126.7		4737.0	50.3	42.1	
НН	2.975	-	2.976	5.3		2734.5	29.0	24.3	
E	0.023	-	0.053	158.4		3505.5	37.2	31.2	
F	0.100	-	0.127	142.6		5907.0	62.7	52.5	
VV	0.006		0.025	100.3		3500.5	37.2	31.1	
U	6.439		6.452	68.6		4057.0	43.1	36.1	
126	29.198		29.222	126.7		10221.0	108.5	90.9	
D	13.230	-	13.247	89.8		3729.0	39.6	33.1	
N	0.004	-	0.020	84.5		3697.5	39.2	32.9	
NTRANCES	AND IRRE	EGUL,	ARITIES						
160	21.046	-	49.828	141523.0			2010.3		IRREGULARITIES 75 TONS/MILE (CONCRETE PORTIONS EXCEPT
160	29.462	-	35.704	32957.76			468.2		ADDITIONAL IRREGULARITIES 75 TONS/MILE
160						300000	3184.0	2666.7	ENTRANCES AND MAILBOXES
						TOTALS	42623.6	33562.8	* SAFETY EDGE INCLUDED IN QUANTITY
						USE	SEE BP-2 TABLE	SEE TACK TABLE	
TE: ANY A	AND ALL IRR	EGULA	RITIES MA	BE UNDERRU	JN AND NO A	DJUSTMENT TO	O ANY UNIT BID COST WI	LL BE MADE.	

	MODIFIED COLDMILLING (DEPTH TRANSITIONS)									
				NET	AVERAGE					
	LOG		LOG	LENGTH	WIDTH	AREA				
ROUTE	MILE	TO	MILE	LF	LF	SY	REMARKS			
160	21.046	-	21.079	175.0	24.0	466.7	BEGIN PROJECT			
160	24.147	-	24.180	175.0	40.0	777.8	BRIDGE A4264 EXCEPTION			
160	24.238	-	24.271	175.0	40.0	777.8	BRIDGE A4264 EXCEPTION			
160	33.393	-	33.420	140.0	21.0	326.7	BRIDGE H0901			
160	33.470	-	33.497	140.0	21.0	326.7	BRIDGE H0901			
160	35.671	-	35.704	175.0	24.0	466.7	RR XING			
160	35.706	-	35.739	175.0	24.0	466.7	RR XING			
160	36.827	-	36.860	175.0	28.0	544.4	BRIDGE A4821 EXCEPTION			
160	36.900	-	36.933	175.0	28.0	544.4	BRIDGE A4821 EXCEPTION			
160	36.967	-	37.000	175.0	28.0	544.4	BRIDGE A4822 EXCEPTION			
160	37.040	-	37.073	175.0	28.0	544.4	BRIDGE A4822 EXCEPTION			
160	38.407	-	38.440	175.0	22.0	427.8	BRIDGE J0064			
160	38.560	-	38.593	175.0	24.0	466.7	RR XING			
160	42.921	-	42.954	175.0	24.0	466.7	CONCRETE PVMT EXCEPTION			
160	43.294	-	43.327	175.0	24.0	466.7	CONCRETE PVMT EXCEPTION			
160	43.507	-	43.540	175.0	24.0	466.7				
160	44.183	-	44.216	175.0	24.0	466.7				
160	44.605	-	44.638	175.0	24.0	466.7	CONCRETE PVMT EXCEPTION			
160	46.281	-	46.314	175.0	24.0	466.7	CONCRETE PVMT EXCEPTION			
160	49.795	-	49.828	175.0	24.0	466.7	CONCRETE PVMT EXCEPTION			
Т	0.067	-	0.076	50.0	24.0	133.3				
Α	11.108	-	11.117	50.0	26.0	144.4				
U	6.430	-	6.439	50.0	22.0	122.2				
126	29.189	-	29.198	50.0	30.0	166.7				
					TOTAL	10514.7				
					USE	10515				

OF MISSON ALL MISSON A 160 STATE MO DISTRICT BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID. PROJECT NO. BRIDGE NO.

SUMMARY OF QUANTITIES
SHEET 1 OF 6

	SHOULDERS BITUMINOUS PAVEMENT												
				NET	AVERAGE	APPROACH	SHOULDERS	SHOULDERS	SHOULDERS	BITUMINOUS SHOULDER	CENTERLINE		
	LOG		LOG	LENGTH	WIDTH	AREA	2.00" BP-1	4.00" BP-1	1.75" BP-2	RUMBLE STRIPS	RUMBLE STRIPS	TACK	
ROUTE	MILE	TO	MILE	LF	LF	SF	TONS	TONS	TONS	STA	STA	GAL	REMARKS
160	21.046	-	23.999	15591.8	4.0			1551.1	675.2	311.8	155.9	554.4	*
160	23.999	-	24.180	955.7						19.1	9.6		*
160	24.238	-	24.577	1789.9						35.8	17.9		*
160	24.577	-	29.508	26035.7	4.0			2590.1	1127.4	520.7	260.4	925.7	*
160	29.508	-	33.269	19858.1	4.0		987.8		859.9	397.2	198.6	706.1	*
160	33.269	-	33.420	797.3	4.0			79.3	34.5	15.9	8.0	28.3	*
160	33.470	-	35.704	11795.5	4.0			1173.4	510.8	235.9	118.0	419.4	*
160	35.706	-	35.774		4.0			35.7	15.5	7.2	3.6	12.8	*
160	36.900	-	37.000	528.0						10.6	5.3		
160	37.040	-	37.116	401.3						8.0	4.0		
160	37.116		38.440	6990.7	4.0			695.4	302.7	139.8	69.9	248.6	*
160	38.500		38.558	306.2	4.0			30.5	13.3	6.1	3.1	10.9	*
160	38.560	-	42.954	23200.3	4.0			2308.0	1004.6	464.0	232.0	824.9	*
160	43.294	-	43.496	1066.6	4.0		·	106.1	46.2	21.3	10.7	37.9	*
160	44.592	-	44.638	242.9	4.0		12.1		10.5	4.9	2.4	8.6	*
160	46.281	-	49.828	18728.2	4.0		931.6		811.0	374.6	187.3	665.9	*
			·			TOTALS	1931.5	8569.6	5411.6	2572.9	1286.7	4443.5	* SAFETY EDGE INCLUDED IN QUANTITY
						USE	10501.1		SEE BP-2 TABLE	2572.9	1286.7	SEE TACK TABLE	

	COLDMILLING BITUMINOUS PAVEMENT (3 IN. THICK OR LESS)								
				NET	AVERAGE				
	LOG		LOG	LENGTH	WIDTH	AREA			
ROUTE	MILE	ТО	MILE	LF	LF	SY	REMARKS		
160	38.440	-	38.500	316.8	20.0	704.0	1.75" COLDMILL		
160	38.500	-	38.524	126.7	22.0	309.7	1.75" COLDMILL, WIDTH TRANSITION		
160	38.524	•	38.558	179.5	24.0	478.7	1.75" COLDMILL		
160	43.540	•	43.937	2096.2	24.0	5589.9	1.75" COLDMILL		
160	43.937	-	44.017	422.4	24.0	1126.4	1.75" COLDMILL		
160	44.017	•	44.183	876.5	24.0	2337.3	1.75" COLDMILL		
97	31.660	•	31.677	89.8	VAR	232.9	1.75" COLDMILL		
	TOTAL 10778.9								
	USE 10779								

	ISLANDS AND SIGNS										
		3"	CONCRETE	MEDIAN	2.5" PSST	CONCRETE	ANCHOR	BREAKAWAY	ASSEMBLY		
LOG	LOCATION		SY		LF	EA		EA	Ĺ	REMARKS	
24.294	LT		76.60		16	1		1		RTE A	
36.763	RT		7.56		16	1		1		RTE 126	
	SUBTOTAL		84.16		32	2		2			
	TOTAL		84.2	·	32	2		2			

TOTALS

	TOTAL		84.2	32	2	Z	
				*NOTE: R	RELOCATION OF EXIST. SIG	NS TO NEW POSTS IS INCIDENT	AL .
				DEDMA	NENT ACCRECATE	DOE TREATMENT	
				PERMA	NENT AGGREGATE I	EDGE TREATMENT	
					AGGREGATE	PRIME MC 800	
				LENGTH	200 TON/MILE*	590 GAL/MILE*	
ROUTE	LOG MILE	TO	LOG MILE	MILES	TON	GAL	REMARKS
160	21.046	-	23.999	2.953	590.6	1742	
160	23.999	-	24.180	0.181	36.2	107	
160	24.238	-	24.577	0.339	67.8	200	
160	24.577	-	29.508	4.931	986.2	2909	
160	29.508	-	33.269	3.761	752.2	2219	
160	33.269	-	33.420	0.151	30.2	89	
160	33.470	-	35.704	2.234	446.8	1318	
160	35.706	-	35.774	0.068	13.6	40	
160	35.774	-	36.860	1.086	217.2	641	
160	36.900	-	37.000	0.100	20.0	59	
160	37.040	-	37.116	0.076	15.2	45	
160	37.116		38.440	1.324	264.8	781	
160	38.500		38.558	0.058	11.6	34	
160	38.560	-	42.954	4.394	878.8	2592	
160	43.294	-	43.496	0.202	40.4	119	
160	43.496	-	43.540	0.044	8.8	26	
160	44.183	-	44.952	0.769	153.8	454	
160	44.592	-	44.638	0.046	9.2	27	
160	46.281	-	49.828	3.547	709.4	2093	

5252.8

15495

\*INCLUDES 2' WIDTH BOTH SIDES OF ROADWAY

	211031011 001111102								
LOG	LOG	ROCK DITCH CHECKS	ROCK DITCH CHECKS	SILT FENCE	SEDIMENT REMOVAL				
(STA)	(STA)	EA	LF	LF	CY				
21.046	23.999	148	1480.0	222.0	150.2				
24.577	33.420	442	4420.0	663.0	448.6				
33.470	35.774	115	1150.0	172.5	116.7				
37.116	38.440	66	660.0	99.0	67.0				
38.500	42.954	223	2230.0	334.5	226.3				
43.294	43.496	10	100.0	15.0	10.2				
44.592	44.638	2	20.0	3.0	2.0				
46.281	49.828	177	1770.0	265.5	179.7				
393+50.00	396+00.00	6	60.0		6.0				
485+00.00	487+00.00	4	40.0		4.0				
489+00.00	491+00.00	4	40.0		4.0				
536+00.00	538+00.00	4	40.0		4.0				
593+00.00	595+50.00	4	40.0		4.0				
602+00.00	604+00.00	4	40.0		4.0				
611+00.00	612+00.00	4	40.0		4.0				
633+00.00	634+00.00	4	40.0		4.0				
644+00.00	645+50.00	4	40.0		4.0				
646+50.00	648+50.00	4	40.0		4.0				
659+00.00	660+50.00	4	40.0		4.0				
		SUBTOTAL	12290.0	1774.5	1246.7				
		TOTAL	12290	1775	1247				

EROSION CONTROL

TACK COAT			
	TACK COAT		
TABLE	GAL		
BITUMINOUS PAVEMENT	33562.8		
SHOULDERS	4443.5		
SUBTOTAL	38006.3		
TOTAL	38006		

BP - 2	
	BP - 2
TABLE	TON
BITUMINOUS PAVEMENT	42623.6
SHOULDERS	5411.6
SUBTOTAL	48035.2
TOTAL	48035.2

SUMMARY OF QUANTITIES SHEET 2 OF 6

OF MICH	· .
OF MISSO	1/2
- CIMICI MENT	2:
SWITZER	1
彩 NUMBER PE-2003015045	3
1900 - 0 - N	\$ 1. S
11,5810 NAL ENG	1111
PE-2003015045	

09/11/2024 9:58:0 AM CRAIG ALAN SWITZER - CIV MO-PE-2003015045

9/11	/2024
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID.

PROJECT NO.

BRIDGE NO.





	SIDEWALK PIPES											
		15" GR C PIPE	18" GR C PIPE	24" GR C PIPE	15" GR C FES	18" GR C FES	24" GR C FES	CLASS 3	ROCK			
LOG	LOCATION	PIPE	PIPE	PIPE	FES	FES	FES	EXCAVATION	LINING	REMARKS		
		LF	LF	LF	EA	EA	EA	CY	CY			
36.28	LT			19.0			2	6.9	3.0	CHURCH AVE NE		
36.28	RT		13.0			2		1.5	2.0	CHURCH AVE SE		
36.34	LT		19.0			2		1.5	2.0	MILL ST NE		
36.34	RT	16.0			2			1.4	2.0	MILL ST SE		
36.4	LT	9.0			2			1.4	2.0	DEPOT AVE NW		
36.4	RT	14.0			2			1.4	2.0	DEPOT AVE SW		
	SUBTOTAL	39.0	32.0	19.0	6	4	2	14.1	13.0			
	USE	39	32	19	6	4	2	SEE CULVERT TABLE	SEE CULVERT TABLE			

	PIPE EXTENSIONS													
		30" GR A PIPE	30" GR A FES	34"X53" HE	34"X53" HE	PIPE COLLAR	CLASS 3	ROCK						
STA	SHEET	PIPE	FES	PIPE	TAPERED END SECTION	TYPE A	EXCAVATION	LINING	REMARKS					
		LF	EA	LF	EA	EA	CY	CY						
394+94.06	5			5.8	2	2	12.0	9.0						
536+87.00	8	3.7	2			2	3.0	4.0						
611+53.24	11	7.4	2			2	7.0	4.0						
633+58.04	12	11.4	2			2	2.0	4.0						
	SUBTOTAL	22.5	6	5.8	2	8	24.0	21.0						
FROM S	SIDEWALK PIPES TABLE						14.1	13.0						
FROM B	BOX EXTENSIONS TABLE							186.0						
·	TOTAL	22.5	6	5.8	2	8	38.1	220.0						
·	USE	23	6	6	2	8	39	220						

			LINEAR GRADING			
			LINEAR GRADING	MODIFIED LINEAR		
LOG	LOG	LENGTH	CLASS 2 FOR SHOULDERS	GRADING CLASS 2	SEEDING	MULCHING
(STA)	(STA)	LF	100 FT	100 FT	ACRE	ACRE
21.046	23.999	15591.84	311.8			
24.577	29.508	26035.68	520.7			
29.508	33.269	19858.08	397.2			
33.269	33.420	797.28	15.9			
33.470	35.704	11795.52	235.9			
35.706	35.774	359.04	7.2			
37.116	38.440	6990.72	139.8			
38.500	38.558	306.24	6.1			
38.560	42.954	23200.32	464.0			
43.294	43.496	1066.56	21.3			
393+30.00	396+04.80	274.80		5.5	0.32	0.32
44.609	44.638	153.12	3.1			
485+29.14	486+29.14	100.00		2.0	0.11	0.11
46.277	46.379	538.56	10.8			
489+30.00	491+15.00	185.00		3.7	0.21	0.21
46.414	47.265	4493.28	89.9			
536+05.00	537+70.00	165.00		3.3	0.19	0.19
47.296	48.347	5549.28	111.0			
593+45.00	595+35.00	190.00		3.8	0.22	0.22
48.383	48.513	686.4	13.7			
602+25.00	604+05.00	180.00		3.6	0.21	0.21
48.547	48.679	696.96	13.9			
610+70.00	612+40.00	170.00		3.4	0.20	0.20
48.711	49.102	2064.48	41.3			
632+65.00	634+50.00	185.00		3.7	0.21	0.21
49.137	49.301	865.92	17.3			
643+50.00	645+50.00	200.00		4.0	0.23	0.23
49.339	49.360	110.88	2.2			
646+75.00	648+60.00	185.00		3.7	0.21	0.21
49.395	49.589	1024.32	20.5			
658+75.00	660+70.00	195.00		3.9	0.22	0.22
49.626	49.828	1066.56	21.3			
		TOTAL	2464.9	40.6	2.33	2.33
		USE	2465	41	2.4	2.4

	BOX EXTENSIONS												
		FILL	END SE	ECTION	CLASS B-1	REINFORCING	CLASS 4	ROCK					
STA	SHEET	HE I GHT	STANDA	RD PLAN	CONCRETE	STEEL	EXCAVATION	LINING	REMARKS				
		FT [	LT	RT	CY	LBS	CY	CY					
394+34.96	4	2.3	703.11	703.10	5.50	1080	6.0	28.0	5'X3' RCB				
485+79.14	6	1.4	703.10	703.10	2.80	560	4.0	9.0	3'X2' RCB				
490+23.57	7	2.3	703.15	703.14	6.60	1330	4.0	28.0	5'X3' RCB				
594+41.44	9	4.2	703.15	703.14	16.40	2680	7.0	28.0	5'X3' RCB				
603+14.36	10	2.5	703.13	703.12	6.10	1180	5.0	9.0	3'X2' RCB				
644+57.33	13	1.0	703.15	703.14	4.30	840	7.0	28.0	6'X4' RCB				
647+69.99	14	2.1	703.13	703.12	7.30	1490	12.0	28.0	5'X3' RCB				
659+75.07	15	2.5	703.14	703.14	7.70	1500	2.0	28.0	6'X4' RCB				
			·	TOTAL	56.70	10660	47.0	186.0	·				
				USE	56.7	10660	47	SEE PIPE EXTENSIONS					

CRMS ALAN SMIZER NUMBER PE-20030/5045 PP-20030/5045 PP-200

160 DISTRICT

COUNTY
BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID.

\*NOTE: USE LINEAR GRADING CLASS 2 FOR SHOULDERS WHERE SHOULDER WIDENING OCCURS, AND MODIFIED LINEAR GRADING CLASS 2 HAS NOT BEEN SPECIFIED.

	SIDEWALK												
	4" SIDEWALK CURB RAMP 4" TYPE 1 AGG BASE SOD TRUNCATED DOMES ADA LINEAR GRADING 30" WHITE MIDBLOCK SIDEWALK MANICURING												
LOG	LOCATION	SY	SY	SY	SY	SF	LF	EA	LF	REMARKS			
36.28	LT	5.56	5.56	11.1	8.9	10.0	20.0	5	20.0	CHURCH AVE NE			
36.28	RT	5.56	5.56	11.1	8.9	10.0	20.0			CHURCH AVE SE			
36.33	LT	5.56	5.56	11.1	8.9	10.0	20.0	5	20.0	MILL ST NW			
36.33	RT	5.56	5.56	11.1	8.9	10.0	20.0			MILL ST SW			
36.34	LT	5.56	5.56	11.1	8.9	10.0	20.0	5		MILL ST NE			
36.34	RT	5.56	5.56	11.1	8.9	10.0	20.0			MILL ST SE			
36.4	LT	5.56	5.56	11.1	8.9	10.0	20.0	5		DEPOT AVE NW			
36.4	RT	5.56	5.56	11.1	8.9	10.0	20.0		20.0	DEPOT AVE SW			
36.47	LT	5.56	5.56	11.1	8.9	10.0	20.0	5		WYATT AVE NW			
36.47	RT	5.56	5.56	11.1	8.9	10.0	20.0			WYATT AVE SW			
	SUBTOTAL	55.60	55.60	111.0	89.0	100.0	200.0	25	60.0	·			
	TOTAL	55.6	55.6	111	89	100	200	25	60				

	PAVEMENT MARKING												
					STA	DARD WATER	BORNE PAINT	-		PREFORM	MED THERMOPLAST	IC	
							4" SOLID		24"	24"	LEFT/RIGHT	RAILROAD	
					WHITE	YELLOW	YELLOW		WHITE		ARROW	CROSSING	
ROUTE	LOG MILE	Ιто	LOG MILE	LOCATION		LF	LF	LF	LF	LF	EA	EA	REMARKS
160	21.046	+	21.718	200/11/011	7100.0	890.0					271	271	TEL WILLIAM
160	21.718		21.938		2320.0	290.0	1160.0						
160	21.938		23.100		12270.0		12270.0						
160	23.100		23.338		2510.0	310.0	1260.0						
160	23.338		23.378		420.0	50.0							
160	23.378		23.599		2330.0	290.0	1170.0						
160	23.599		23.958		3790.0	470.0	3790.0						
160	23.958		24.319		3810.0	480.0	1910.0						
160	24.319		24.498		1890.0	240.0	1890.0						
160 160	24.498 24.677		24.677 24.778		1890.0 1070.0	240.0	950.0						
160	24.677		24.778		1900.0	130.0	950.0	<del> </del>					
160	24.778		26.258		13730.0	240.0	13730.0						
160	26.258		26 439		1910.0	240.0	960.0	<u> </u>					
160	26.439		26.538		1050.0	130.0							
160	26.538		26.918		4010.0	500.0	2010.0	1					
160	26.918		26.959		430.0		430.0						
160	26.959		27.639		7180.0	900.0	3590.0						
160	27.639		27.758		1260.0		1260.0						
160	27.758		28.118		3800.0	480.0	1900.0						
160	28.118		28.678		5910.0		5910.0						
160	28.678		28.840		1710.0	210.0	860.0						
160	28.840		28.997		1660.0	210.0	050.0						
160 160	28.997 29.177		29.177 29.480		1900.0 3200.0	240.0	950.0 3200.0						
160	29.177		29.480		1480.0	180.0	740.0						
160	29.620		29.861		2540.0	320.0	740.0						
160	29.861		30 442		6140.0	770.0	3070.0						
160	30.442		30.560		1250.0		1250.0						
160	30.560		30.922		3820.0	480.0	1910.0						
160	30.922		31.100		1880.0		1880.0						
160	31.100		31.282		1920.0	240.0	960.0						
160	31.282		31.381		1050.0	130.0							
160	31.381	1	31.783		4250.0	530.0	2120.0						
160	31.783		31.843		630.0	240.0	630.0	-					
160 160	31.843 32.022		32.022 32.161		1890.0 1470.0	240.0	950.0 1470.0						
160	32.022		32.161		1900.0	240.0	950.0	<del> </del>					
160	32.341		34.203		19660.0	2460.0	330.0	<b> </b>					
160	34.203		35 161		10120.0	1260.0	5060.0						
160	35.161		36.860		17940.0		17940.0		21			2	
160	36.860		37.100		2530.0	320.0	1270.0						
160	37.100		37.320		2320.0	290.0							
160	37.320		37.660		3590.0	450.0	1800.0						
160	37.660		37.700		420.0		420.0						
160	37.700		38.078		3990.0	500.0	2000.0						
160	38.078	1	38.379		3180.0	400.0	2122						
160	38.379		38.438		620.0	80.0	310.0	-	20			1	
160 160	38.438		38.840		4250.0	290.0	4250.0		20			1	
160	38.840 39.060		39.060 39.398		2320.0 3570.0	290.0	1160.0 3570.0	<del> </del>					
100	33.000		33.330	I		ONTIMIED	ON SHEET	. 2	l	l	I .		
						CIVITINUED	ON SHEET	٠					

0908042 213:00 PM
CRAIG ALAN SWITZER - CIVL
MO-PE-2003015045

DATE PREPARED
9/4/2024 ROUTE STATE

160 MO

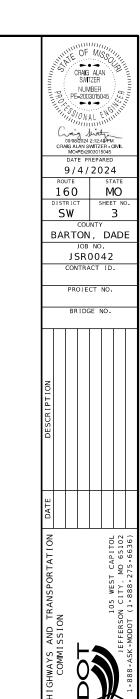
DISTRICT SHEET NO.

SW 3 COUNTY
BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID. PROJECT NO. BRIDGE NO.

SUMMARY OF QUANTITIES
SHEET 4 OF 6

	PAVEMENT MARKING CONT.													
					STA	NDARD WATER	BORNE PAINT BEADS			PREFORM	MED THERMOPLAST EMENT MARKING	IC		
					4" SOLID		4" SOLID	24"	24"	24"	LEFT/RIGHT	RAILROAD		
					WHITE	YELLOW	YELLOW	WHITE	WHITE	YELLOW	ARROW	CROSSING		
DOUTE	LOC MILE	ΤΩ	LOC MILE	LOCATION	LF			LF	LF				DEMARKS	
ROUTE	LOG MILE	10		LOCATION		LF	LF	LF	LF	LF	EA	EA	REMARKS	
160	39.398		39.637		2520.0	320.0	1260.0							
160	39.637		40.118		5080.0	240.0	5080.0							
160	40.118		40.298		1900.0	240.0	950.0							
160	40.298		40.460		1710.0	210.0	740.0							
160	40.460		40.600		1480.0	180.0	740.0							
160	40.600		40.718		1250.0	160.0	1000 0							
160 160	40.718		40.918 41.058		2110.0 1480.0	260.0 180.0	1060.0							
160	40.918		41.058		3800.0	480.0	1900.0							
160	41.058		41.418		7780.0	970.0	1900.0							
160	42.155		42.133		630.0	80.0	320.0							
160	42.133		42.215		420.0	80.0	420.0							
160	42.215		42.233		880.0	110.0	440.0							
160	42.338		42.416		820.0	100.0	440.0							
160	42.416		43.098		7200 0	900.0	3600.0							
160	43.098		43.315		2290.0	290.0	3000.0							
160	43.315		43.677		3820.0	480.0	1910.0							
160	43.677		43.977		3170 0	400.0	1310.0							
160	43.977		44.100		1300.0	,,,,,	1300.0		11					
160	44.110		44.178		720.0		720.0		12					
160	44.178		44.255		810.0	100.0								
160	44.255		44.796		5710.0	710.0	2860.0							
160	44.796		44.877		860.0		860.0							
160	44.877		45.077		2110.0	260.0	1060.0							
160	45.077		45.918		8880.0	1110.0								
160	45.918		46.116		2090.0	260.0	1050.0							
160	46.116		46.197		860.0		860.0							
160	46.197		46.397		2110.0	260.0	1060.0							
160	46.397		46.715		3360.0	420.0								
160	46.715		46.955		2530.0	320.0	1270.0							
160	46.955		47.055		1060.0		1060.0							
160	47.055		47.216		1700.0	210.0	850.0							
160	47.216		47.435		2310.0	290.0								
160	46.435		47.895		15420.0	1930.0	7710.0							
160	47.895		47.955		630.0	80.0								
160	47.955		48.155		2110.0	260.0	1060.0							
160	48.155		49.850		17900.0		17900.0							
160	49.850		49.920		740.0		1480.0			82				
160	49.920		49.944		540.0		250.0		12		2			
Α								121					LOW PROFILE ISLANDS	
126								31					LOW PROFILE ISLANDS	
39								134					LOW PROFILE ISLANDS	
				TOTALS	315870	27050	172890	286	76	82	2	4		
				USE	315870	199	940	286	76	82	2	4		

							GUARDRA	IL		
					MGS		TYPE A		SHAPING	
				NET	BRIDGE APPR	MGS	CRASHWORTHY	MGS	SLOPES	
	LOG	LOG		LENGTH	TRANSITION	GUARDRAIL	MASH	END ANCHOR	CLASS III	
ROUTE	MILE	MILE	OFFSET	FT	EACH	LF	EACH	EACH	100 FT	REMARKS
160	24.167	24.197	LT	112.5	1	25.0	1		1.1	BRIDGE A4264
160	24.167	24.197	RT	112.5	1	25.0	1		1.1	BRIDGE A4264
160	24.237	24.261	LT	137.5	1	50.0	1		1.4	BRIDGE A4264
160	24.237	24.261	RT	137.5	1	50.0	1		1.4	BRIDGE A4264
160	36.844	36.872	LT	137.5	1	50.0	1		1.4	BRIDGE A4821
160	36.844	36.872	RT	162.5	1	125.0		1	1.6	BRIDGE A4821, 30' RADIUS IN SW CORNER
160	36.905	36.931	LT	137.5	1	50.0	1		1.4	BRIDGE A4821
160	36.905	36.931	RT	137.5	1	50.0	1		1.4	BRIDGE A4821
160	36.985	37.018	LT	137.5	1	50.0	1		1.4	BRIDGE A4822
160	36.985	37.018	RT	137.5	1	50.0	1		1.4	BRIDGE A4822
160	37.038	37.059	LT	137.5	1	50.0	1		1.4	BRIDGE A4822
160	37.038	37.059	RT	137.5	1	50.0	1		1.4	BRIDGE A4822
160	45.476	45.507	LT	137.5	1	50.0	1		1.4	BRIDGE A2541
160	45.476	45.507	RT	137.5	1	50.0	1		1.4	BRIDGE A2541
160	45.528	45.556	LT	137.5	1	50.0	1		1.4	BRIDGE A2541
160	45.528	45.556	RT	137.5	1	50.0	1		1.4	BRIDGE A2541
				TOTALS	16	825.0	15	1	22.0	
				USE	16	825	15	1	22	



SUMMARY OF QUANTITIES
SHEET 5 OF 6

											EFFECTIVE: 07-01-2024
TOTAL	QTY TOTAL SIGN				1	OTY	TOTALSIGN			1	
SIZE AREA QTY AREA R	· I I			SIZE AREA Q	$_{TV} _{TOTAI}$	1 -	1				
			CICN	1 1 1					, , ,	LOTA	.
	EACH SQ.FT.	1	SIGN		ACH SQ.FT		SQ FT	4	11	TOTA	
WARNING SI	GNS	DESCRIPTION			UIDE SI	GNS		DESCRIPTION	NUMBER	QTY	DESCRIPTION
WO1-1L 48X48 16.00		TURN (SYMBOL LEFT)	E05-1	36X48 12.00				GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R 48X48 16.00		TURN (SYMBOL RIGHT)	E05-2	48X36 12.00				EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L 48X48 16.00		CURVE (SYMBOL LEFT)	E05-2a	48X36 12.00				EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2R 48X48 16.00		CURVE (SYMBOL RIGHT)	GO20-1		2 20			ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-3L 48X48 16.00		REVERSE TURN (SYMBOL LEFT)	GO20-2		2 16			END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3R 48X48 16.00		REVERSE TURN (SYMBOL RIGHT)	GO20-4					PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-4L 48X48 16.00		REVERSE CURVE (SYMBOL LEFT)			87.5			PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4R 48X48 16.00		REVERSE CURVE (SYMBOL RIGHT)			19 28.5			PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4bL 48X48 16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)		P 36X24 6.00	8 48			WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bR 48X48 16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8 a	24X18 3.00				END DETOUR	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cL 48X48 16.00		TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4 - 9L	48X36 12.00				DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM
WO1-4cR 48X48 16.00 WO1-6 60X30 12.50		TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R MO4 - 9P	48X36 12.00				DETOUR (RIGHT)	6161012 6161013		BUOYS (BOATS KEEP OUT)
WO1-6 60X30 12.50 WO1-6a 72X36 18.00		HORIZONTAL ARROW (SYMBOL) HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)		48X12 4.00 48X18 6.00				STREET NAME (PLAQUE) DETOUR ARROW (LEFT)	6161013		BUOYS (NO WAKE)  SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7 60X30 12.50		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		48X18 6.00				DETOUR ARROW (EEFT)  DETOUR ARROW (RIGHT)	l <del></del>		CHANNELIZER (TRIM LINE)
WO1-7a 72X36 18.00		DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	1404-101		EGULATO	RY SIG		DETOOK AKKOW (KIGHT)	6161030	+	TYPE III MOVEABLE BARRICADE
WO1-8 18X24 3.00		CHEVRON (SYMBOL)	R1-1	48X48 13.25	LGOLATO	1 310		STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a 30X36 7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1 - 2	48TRI 6.93				YIELD	6161040		FLASHING ARROW PANEL
WO3-1 48X48 16.00		STOP AHEAD (SYMBOL)	R1-2a	36X36 9.00				TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3-2 48X48 16.00		YIELD AHEAD (SYMBOL)	R1-3P	30X12 2.50				ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3-3 48X48 16.00		SIGNAL AHEAD (SYMBOL)	R2-1		16 192			SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3-4 48X48 16.00 21 336		BE PREPARED TO STOP	R3-1	48X48 16.00	132			NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3-5 48X48 16.00		SPEED LIMIT AHEAD	R3 - 2	48X48 16.00				NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,
WO4-1L 48X48 16.00		MERGE (SYMBOL FROM LEFT)	R3-3	36X36 9.00				NO TURNS	6161096		COMMISSION FURNISHED/RETAINED
WO4-1R 48X48 16.00		MERGE (SYMBOL FROM RIGHT)	R3-4	48X48 16.00				NO U-TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN W/O COMM
WO4-1aL 48X48 16.00		MERGE (LEFT)	R3-7L	30X30 6.25				LEFT LANE MUST TURN LEFT	61610984		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4-1aR 48X48 16.00		MERGE (RIGHT)	R3 - 7R	30X30 6.25				RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.
WO5-1 48X48 16.00 1 16		ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48 12.00				DO NOT PASS	6161099	3	INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5-3 48X48 16.00		ONE LANE BRIDGE	R4-2	36X48 12.00				PASS WITH CARE	6162000 <i>A</i>	\	WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5-5 48X48 16.00		NARROW LANES	R4-7a	36X48 12.00				KEEP RIGHT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO6-1 48X48 16.00		DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48 12.00				KEEP LEFT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER
WO6-2 48X48 16.00		DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30 6.25				DO NOT ENTER	61736000	56	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 XX MILES (PLAQUE)	R6-1L	54X18 6.75				ONE WAY ARROW (LEFT)	6173602E	3	CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8-1 48X48 16.00		BUMP	R6-1R	54X18 6.75				ONE WAY ARROW (RIGHT)	6174000 <i>A</i>	١	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-2 48X48 16.00		DIP	R6-2L	24X30 5.00				ONE WAY (LEFT)	6175010 <i>A</i>	١	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 1	10 20			SIDEWALK CLOSED	6176000E	3	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	R9-11L	24X18 3.00				(ARROW LEFT) CROSS HERE	6177000E		COMMISSION FURNISHED/RETAINED
WO8-6c 48X48 16.00		TRUCK ENTRANCE						SIDEWALK CLOSED AHEAD,	6208064		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 6.00				STOP HERE ON RED (45^ ARROW)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-9 48X48 16.00		LOW SHOULDER	R11-2	48X30 10.00	2 20			ROAD CLOSED	6169902	10	ADA COMPLIANT MOVEABLE BARRICADE
WO8-11 48X48 16.00		UNEVEN LANES			_			ROAD CLOSED XX MILES AHEAD			
WO8-12 48X48 16.00		NO CENTER LINE		60X30 12.50	2 25	1		LOCAL TRAFFIC ONLY			
WO8-15 48X48 16.00		GROOVED PAVEMENT		60X30 12.50				ROAD CLOSED TO THRU TRAFFIC	l		
WO8-15P 30X24 5.00		MOTORCYCLE (PLAQUE)		A 60X48 20.00				FINE SIGN			
WO8 17D 48X48 16.00		SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-32	X 56X12 4.67	   SCELLA	VEOUS :	C I CNC	SPEEDING/PASSING (PLATE)	<u> </u>	1	
WO8-17R 48X48 16.00		SHOULDER DROP-OFF (SYMBOL RIGHT)	CONCT. F		ISCELLA	VEOUS		DOLLIT OF PRECENCE			
WO8-17P 30X24 5.00		SHOULDER DROP-OFF (PLAQUE)		48X36 12.00 96X48 32.00	2 64			POINT OF PRESENCE			
W10-1 42RND 9.62 W012-1 24X24 4.00		RAILROAD CROSSING DOUBLE DOWN ARROW (SYMBOL)			2 64			POINT OF PRESENCE			
		LOW CLEARANCE (SYMBOL)		48X36 12.00 72X36 18.00				WORK ZONE NO PHONE ZONE RATE OUR WORK ZONE			
W012-2 48X48 16.00 W012-2x 24X18 3.00		LOW CLEARANCE (STIMBOL)		48X36 12.00	2 24			WORK ZONE NO PHONE ZONE			
WO12-2a 84X24 14.00		OVERHEAD LOW CLEARANCE (FEET AND INCHES)	CONST-6	48830 12.00	2 24			WORK ZONE NO FROME ZONE			
WO12-4 120X60 50.00		LOW CLEARANCE XX FT XX IN XX MILES AHEAD									
WO12-5 120X60 50.00		WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD					+ + +				
WO13-1 30X30 6.25		ADVISORY SPEED (PLAQUE)					+ + +				
WO16-2 30X24 5.00		XXX FEET (PLAQUE)	<b>—</b>				<del>                                     </del>				
WO16-3 30X24 5.00		X MILE (PLAQUE)					<del>                                     </del>				
WO20-1 48X48 16.00 80 1280		ROAD/BRIDGE/RAMP WORK AHEAD	<b>—</b>				<del>                                     </del>				
WO20-2 48X48 16.00 80 1280		DETOUR AHEAD	<b>—</b>				<del>                                     </del>				
WO20-3 48X48 16.00 4 64		ROAD CLOSED AHEAD	616-10	0.05	TOTAL		<del>'                                      </del>	1	I		
WO20-4 48X48 16.00 4 64		ONE LANE ROAD AHEAD		RUCTION SIGNS		-					
WO20-5 48X48 16.00		RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10				TOTAL				
WO20-5a 48X48 16.00		2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD		ATED SIGNS			0				
WO20-6a 48X48 16.00		RIGHT/CENTER/LEFT LANE CLOSED		5.5115							
W000 7 40V40 45 00 04											

WO20-7a 48X48 16.00 21 336

WO21-2 36X36 9.00 WO21-5 48X48 16.00 4

WO22-1 48X48 16.00

WO22-2 42X36 10.50 WO22-3 42X36 10.50 GO22-1 21X15 2.19 FLAGGER (SYMBOL)

BLASTING ZONE AHEAD

END BLASTING ZONE
WET PAINT (ARROW PIVOTS)

SHOULDER WORK / SHOULDER WORK AHEAD

TURN OFF 2-WAY RADIO AND PHONE

FRESH OIL

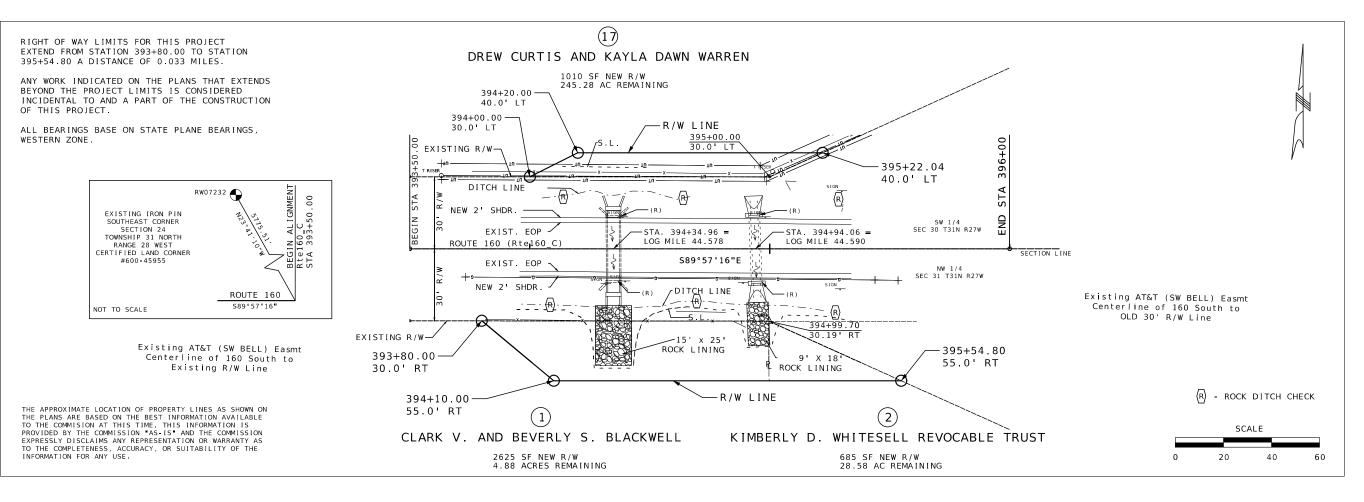
OF MISSON ORAIG ALAN SMITZER NUMBER PE-2003015045 STATE STATE OF MISSON ORAIGN OR ROUTE STATE

160 MO

DISTRICT SHEET NO.

SW 3 COUNTY
BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID. PROJECT NO. BRIDGE NO.

SUMMARY OF QUANTITIES SHEET 6 OF 6



CRAIG ALAN SWITZER

NUMBER

PE-2003015045

09/11/2024 10:15:10 AM 09/11/2024 10:15:10 AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045

9/11/2024

BARTON, DADE

JSR0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

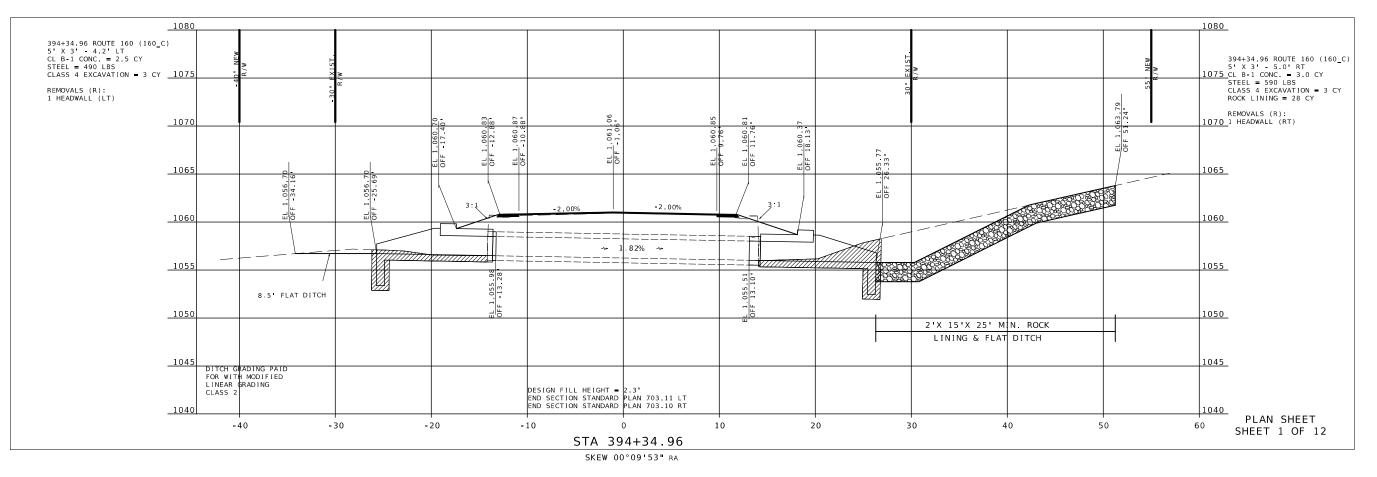
MO SHEET NO

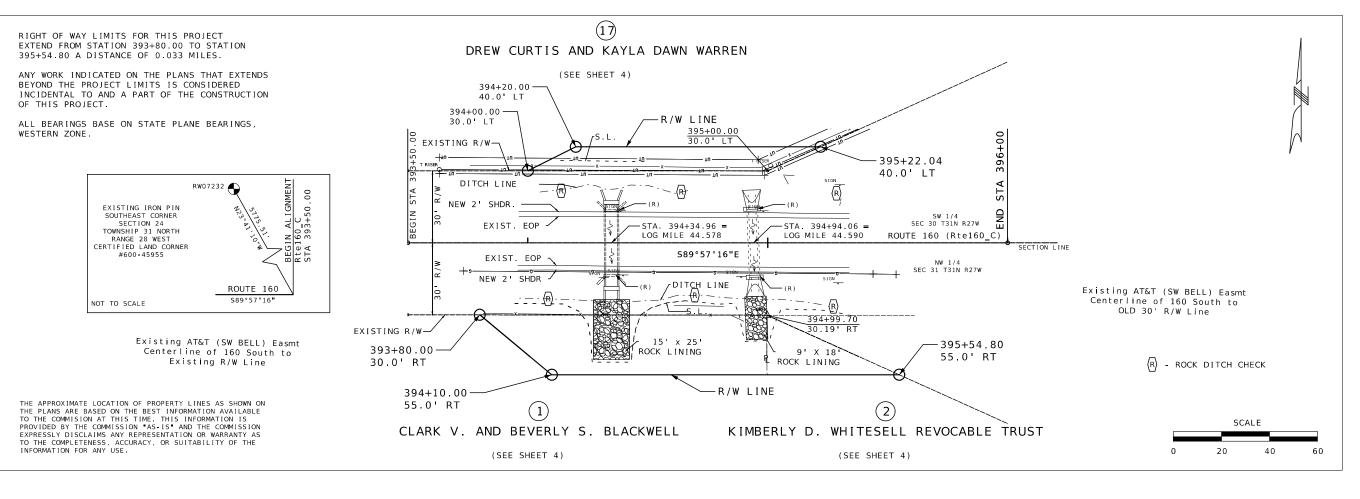
4

160

SW

IIISSIONAL ENG





CRAIG ALAN SWITZER

TISSIONAL ENG

09:08/2024 2:12:1 PPM CRAIG ALAN SWITZER - CIVIL MO-PE-20:3015045

9/4/2024

BARTON, DADE

JSR0042

CONTRACT ID.

PROJECT NO.

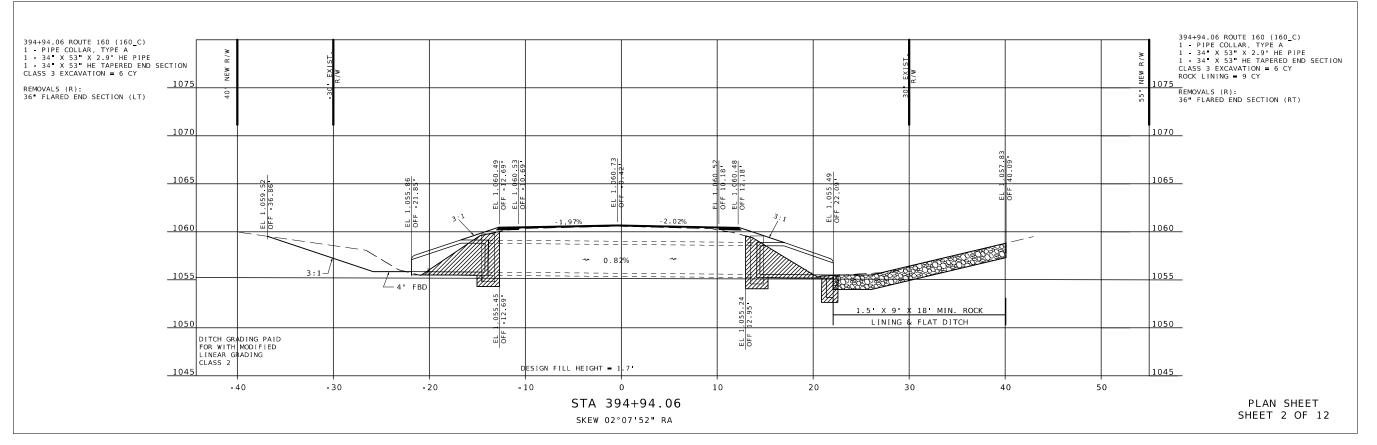
BRIDGE NO.

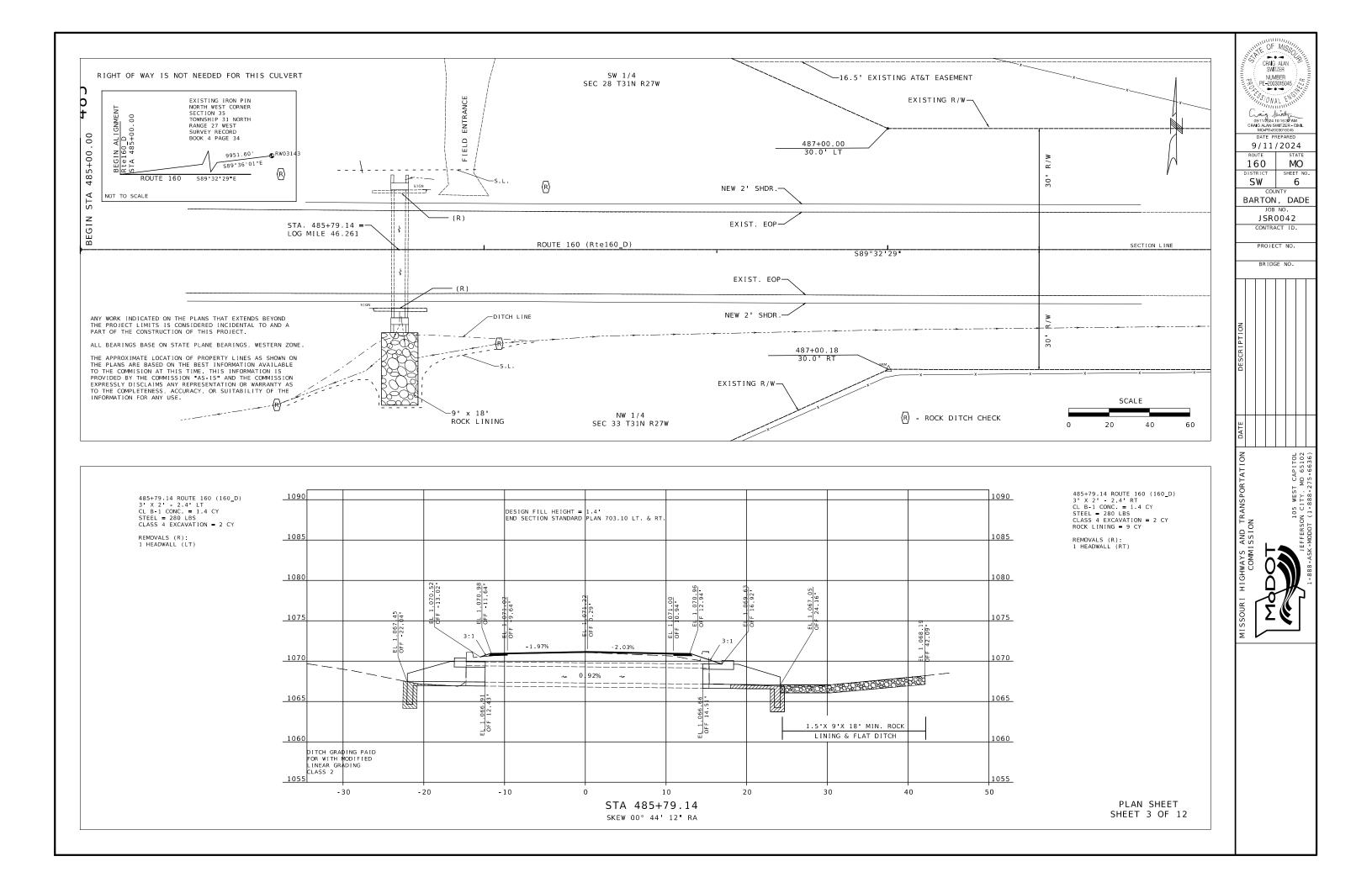
MO SHEET NO

5

160

SW





RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 489+80.00 TO STATION 490+65.00 A DISTANCE OF 0.016 MILES. BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT. ALL BEARINGS BASE ON STATE PLANE BEARINGS, WESTERN ZONE.

(3) ANY WORK INDICATED ON THE PLANS THAT EXTENDS TODD R. AND REBEKAH L. PATTERSON

> STEPHEN C. BELL 1780 SF NEW R/W 47.56 ACRES REMAINING

490+00.00-

55.0' RT

1068 SF NEW R/W 117.68 ACRES REMAINING 490+00.00 ----R/W LINE 45.0 LT

-16.5' EXISTING AT&T EASEMENT -490+65.00 Ō 30.0 LT 30.0' LT SW 1/4 SEC 28 T31N R27W -EXISTING R/W R/W NEW 2' SHDR .-EXISTING IRON PIN NORTH WEST CORNER SECTION 35 TOWNSHIP 31 NORTH RANGE 27 WEST STA. 490+23.57 = EXIST. EOP -LOG MILE 46.395 ROUTE 160 (Rte D) S89°32'29"E SECTION LINE STA 490+24.20 BK = R/W EXIST. EOP-∐STA 490+18.00 SE SIRVEY NOTES

15' X 25'

ROCK LINING NEW 2 SHDR -EXISTING R/W RW03143 9345.40' NW 1/4 SEC 33 T31N R27W S89°32'29"E ROUTE 160 NOT TO SCALE 489+80.00of Fiber 30.0' RT 30.0 RT (4)

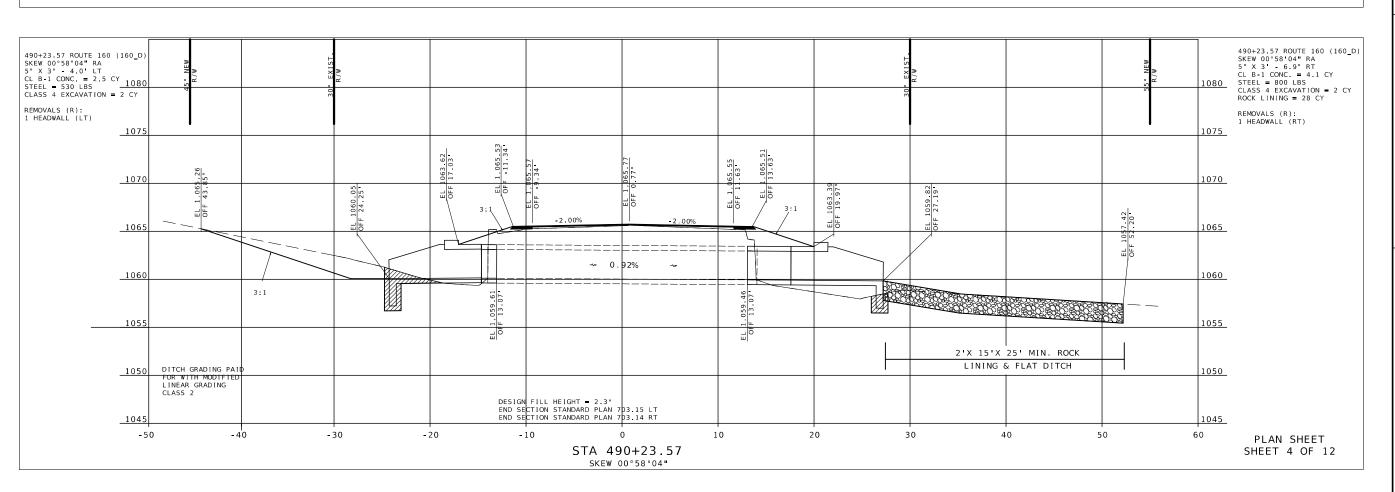
490+45.00

55.0 RT

-R/W LINE

THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISION 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.

SCALE - ROCK DITCH CHECK 40 60 20



CRAIG ALAN SWITZER NUMBER PE-2003015045

09/11/2024 10:17:19 AM
CRAIG ALAN SWITZER - CIVIL
MO-PE-2003015045

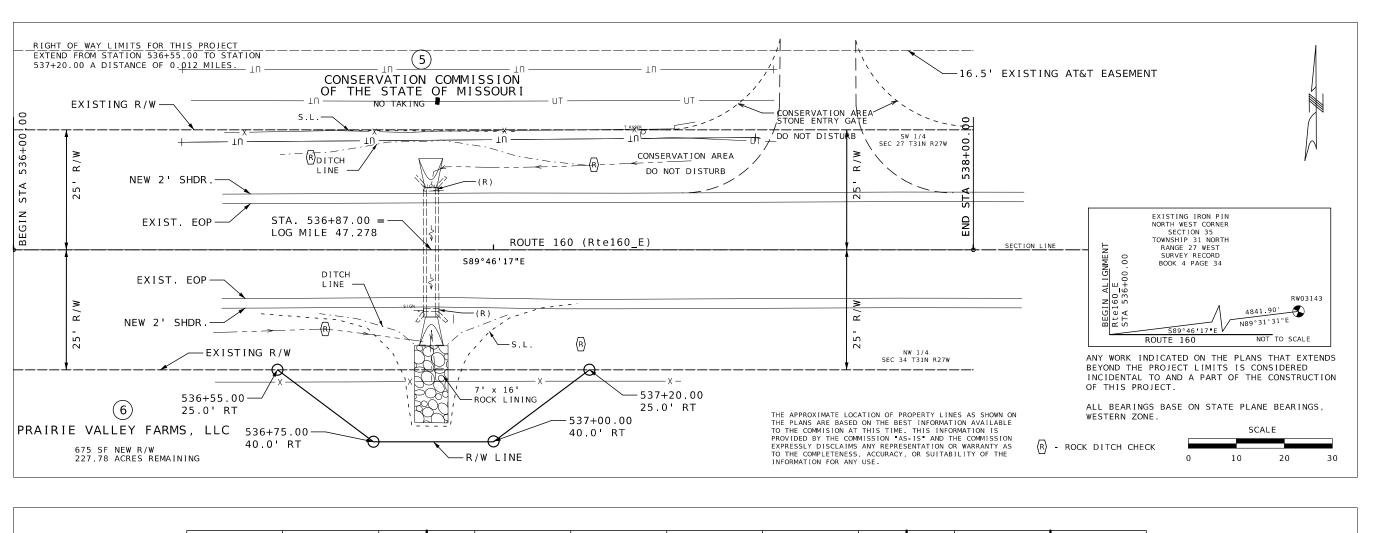
9/11/2024 160 MO SHEET NO SW 7

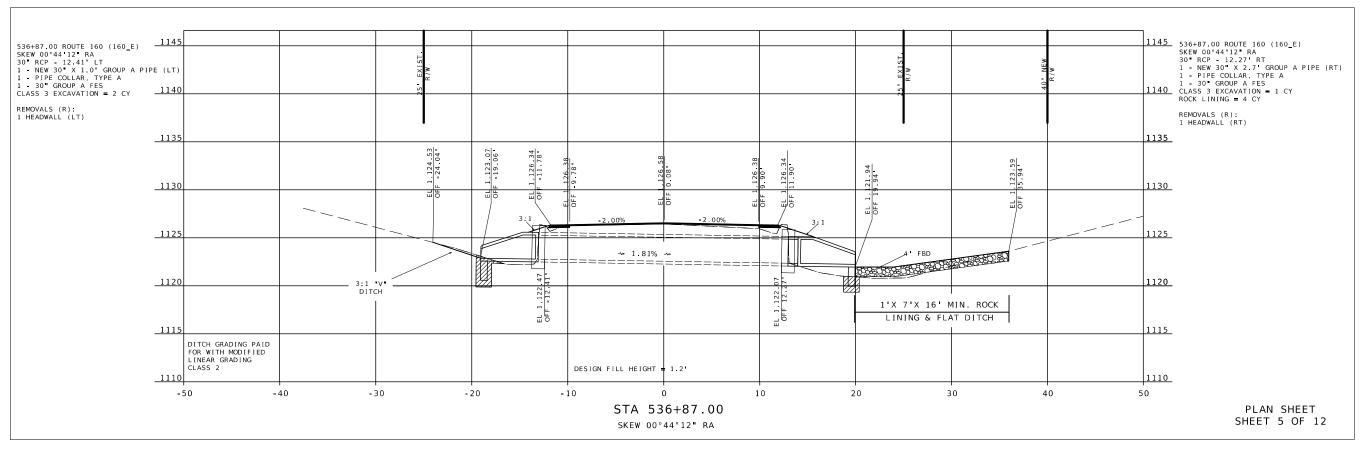
BARTON, DADE

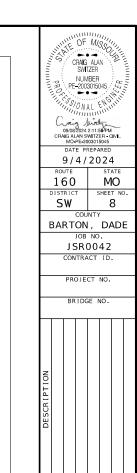
JSR0042 CONTRACT ID.

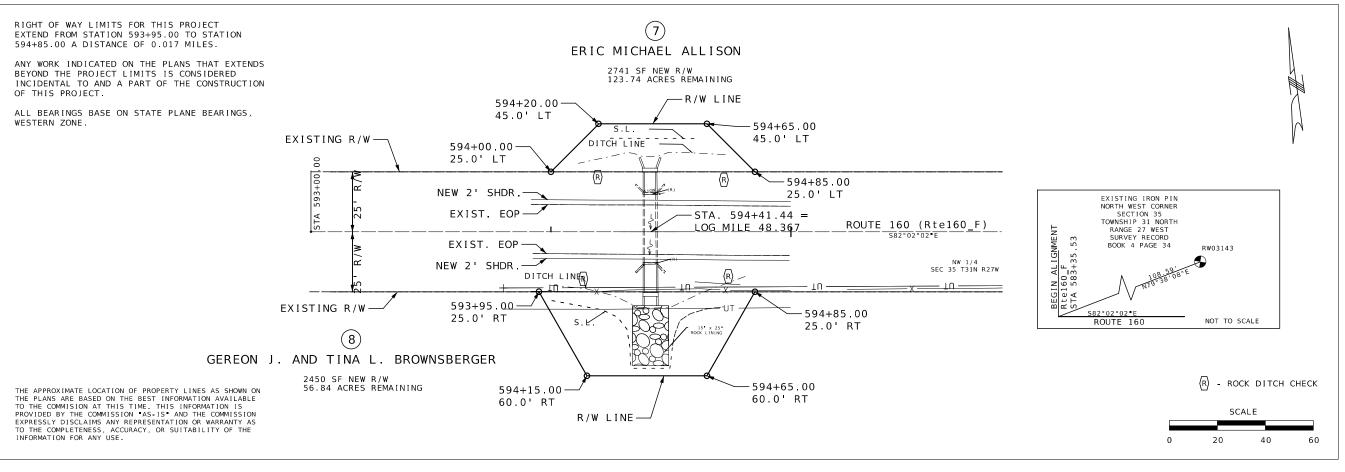
PROJECT NO. BRIDGE NO.

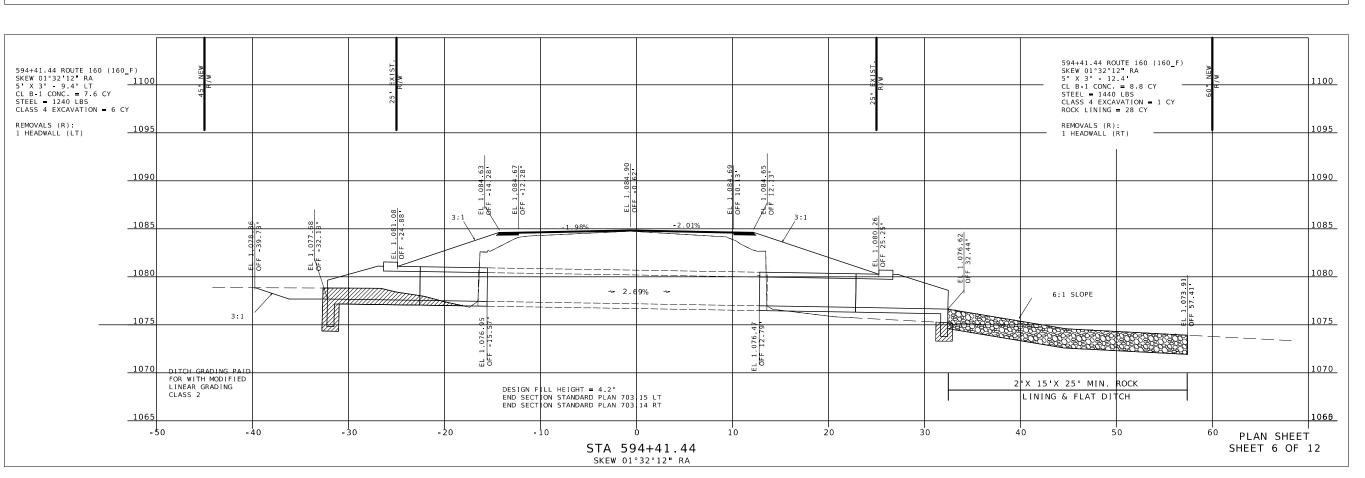














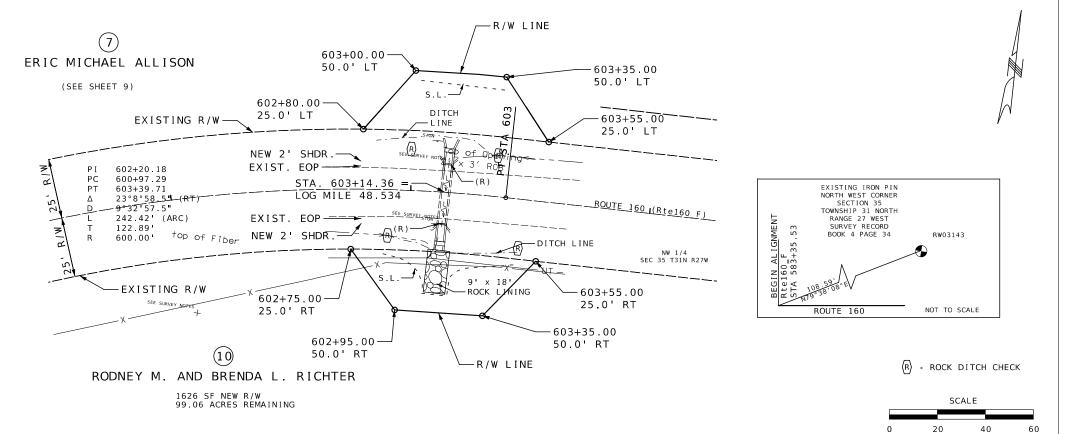
RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 602+75.00 TO STATION 603+55.00 A DISTANCE OF 0.015 MILES.

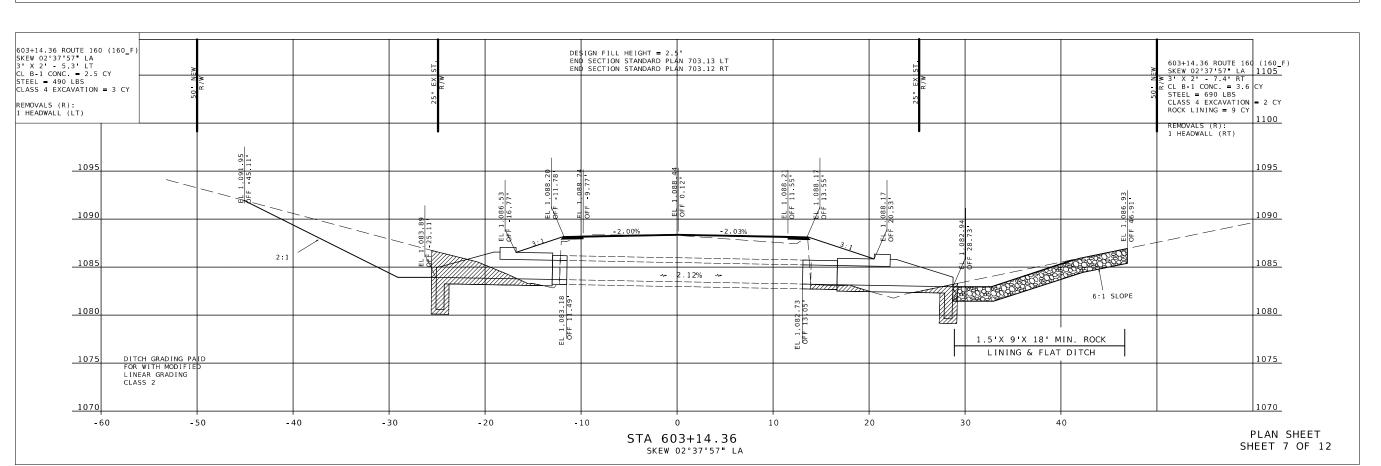
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALL BEARINGS BASE ON STATE PLANE BEARINGS, WESTERN ZONE.

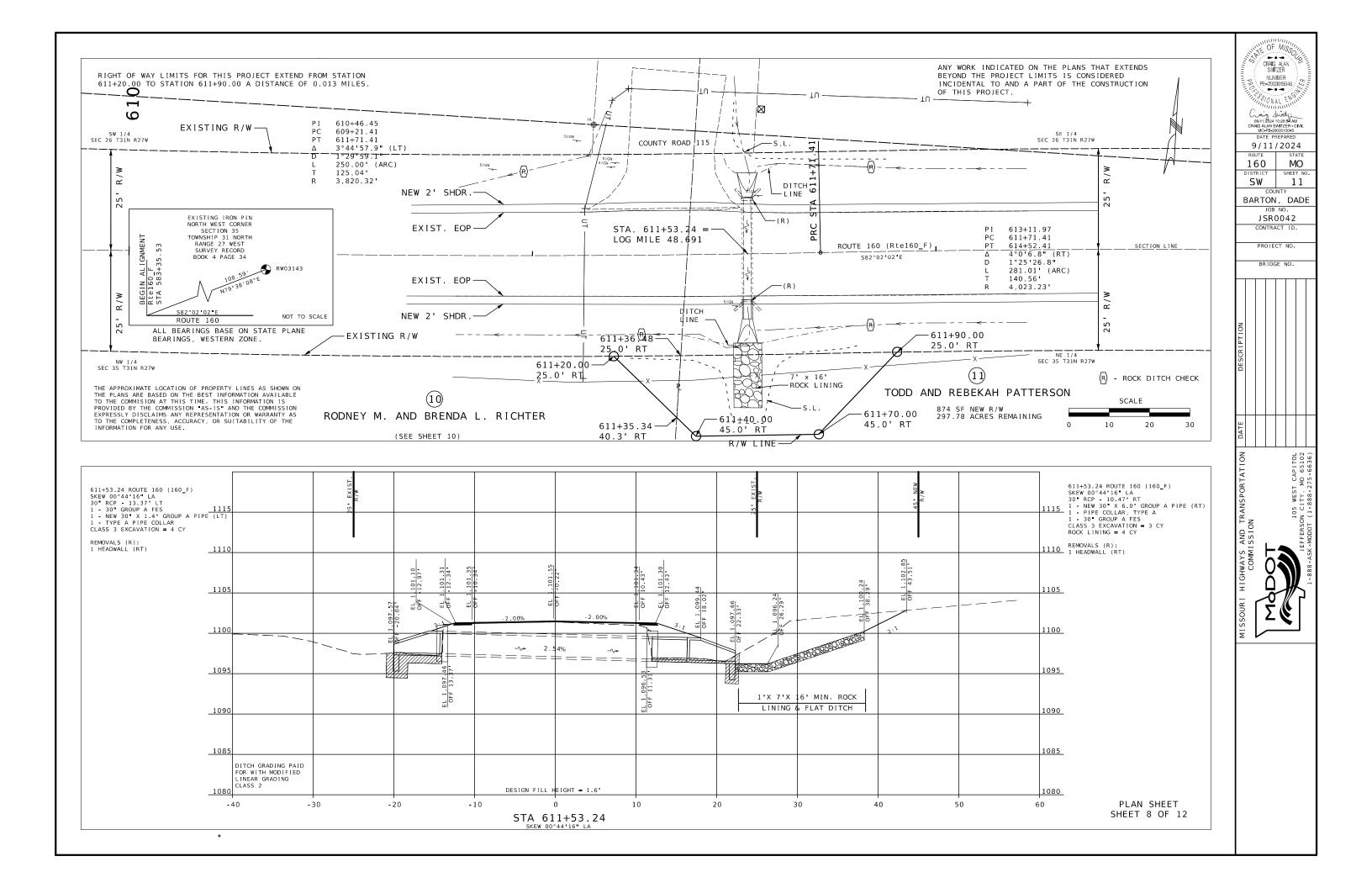
THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS

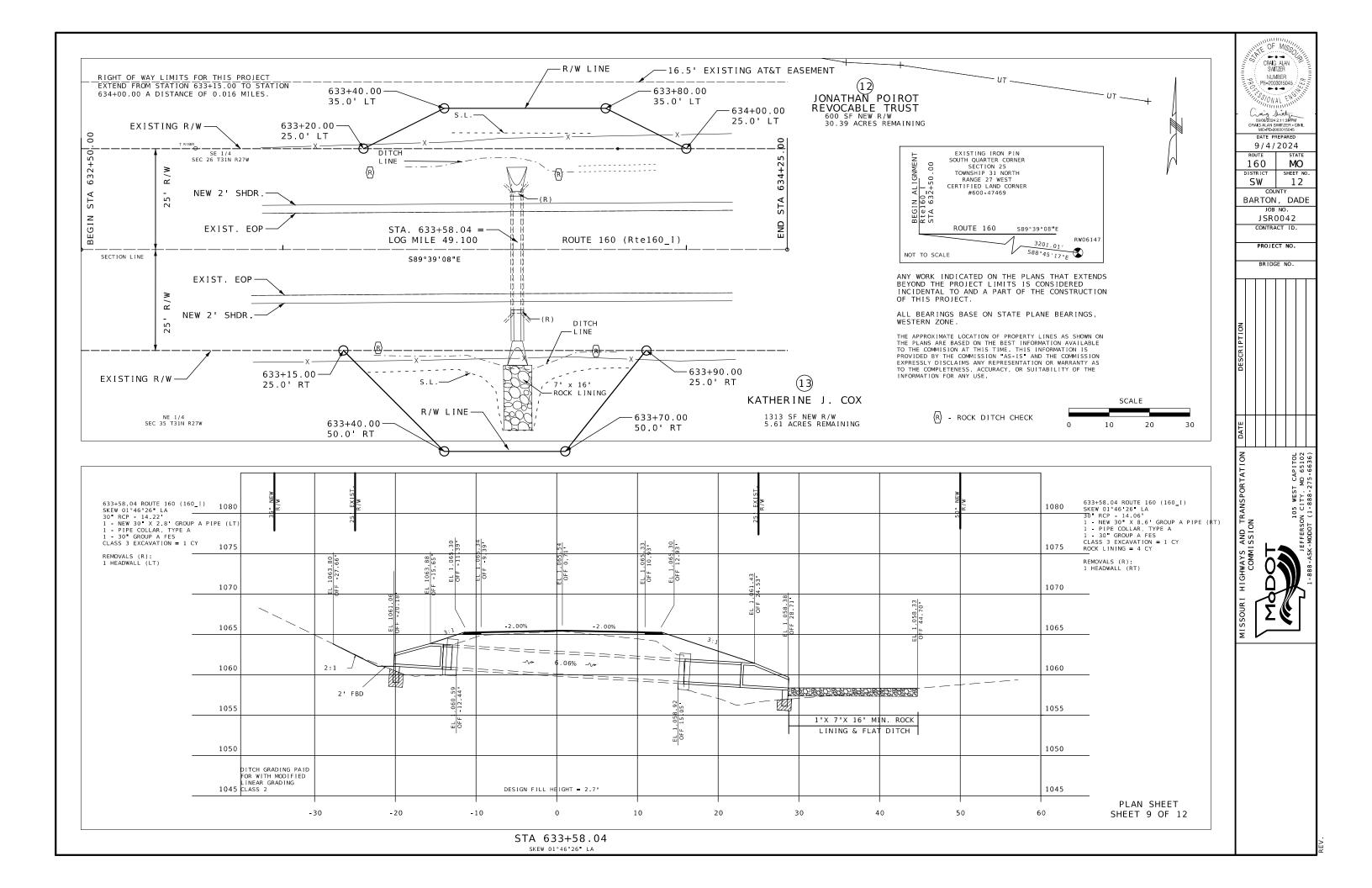
TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.

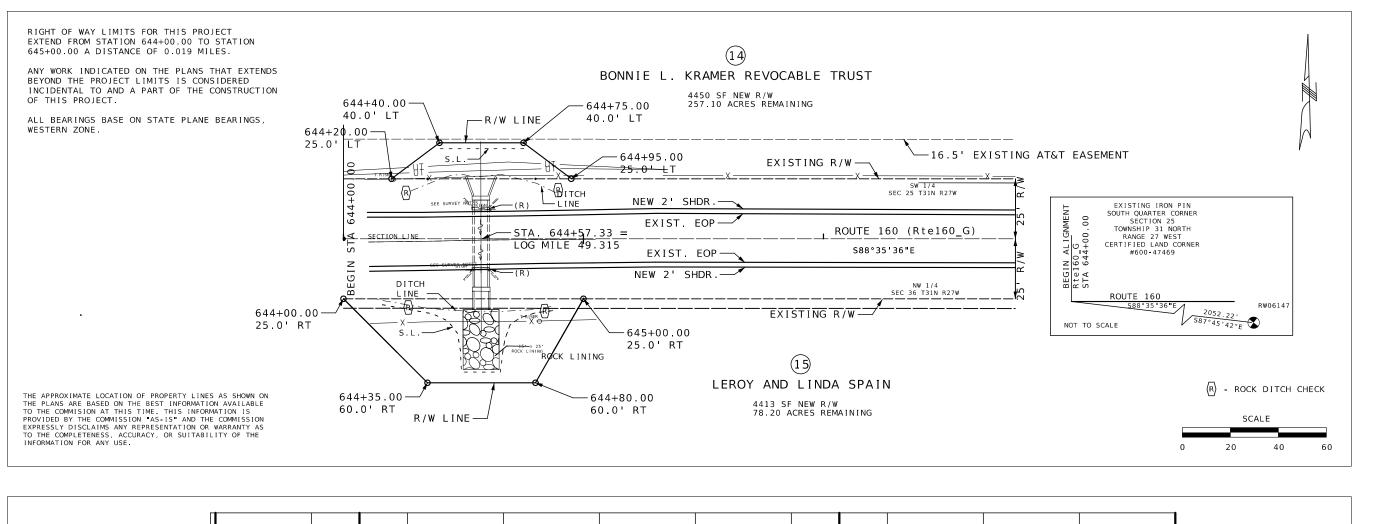


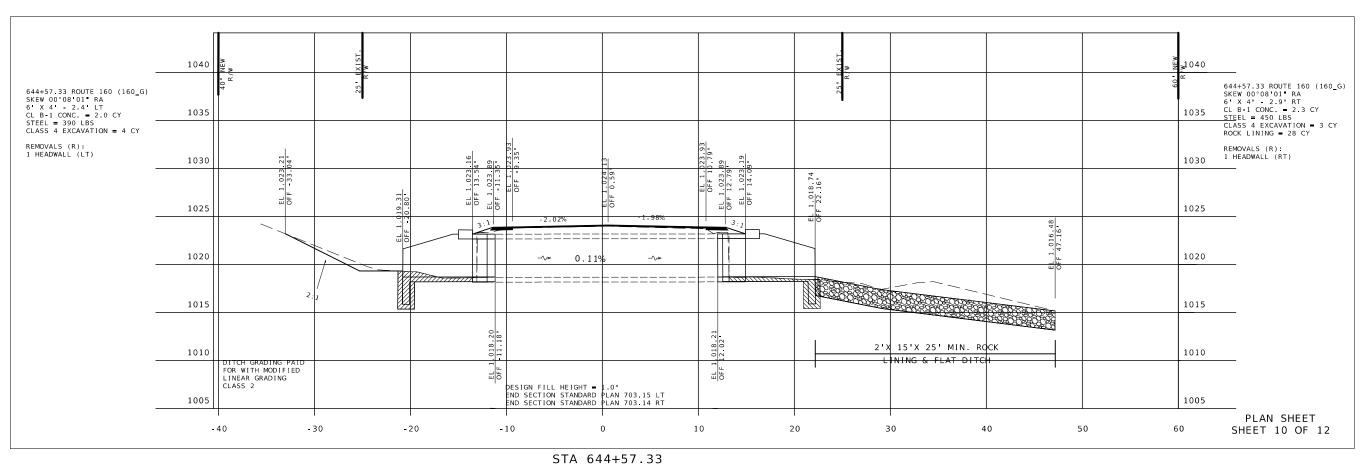


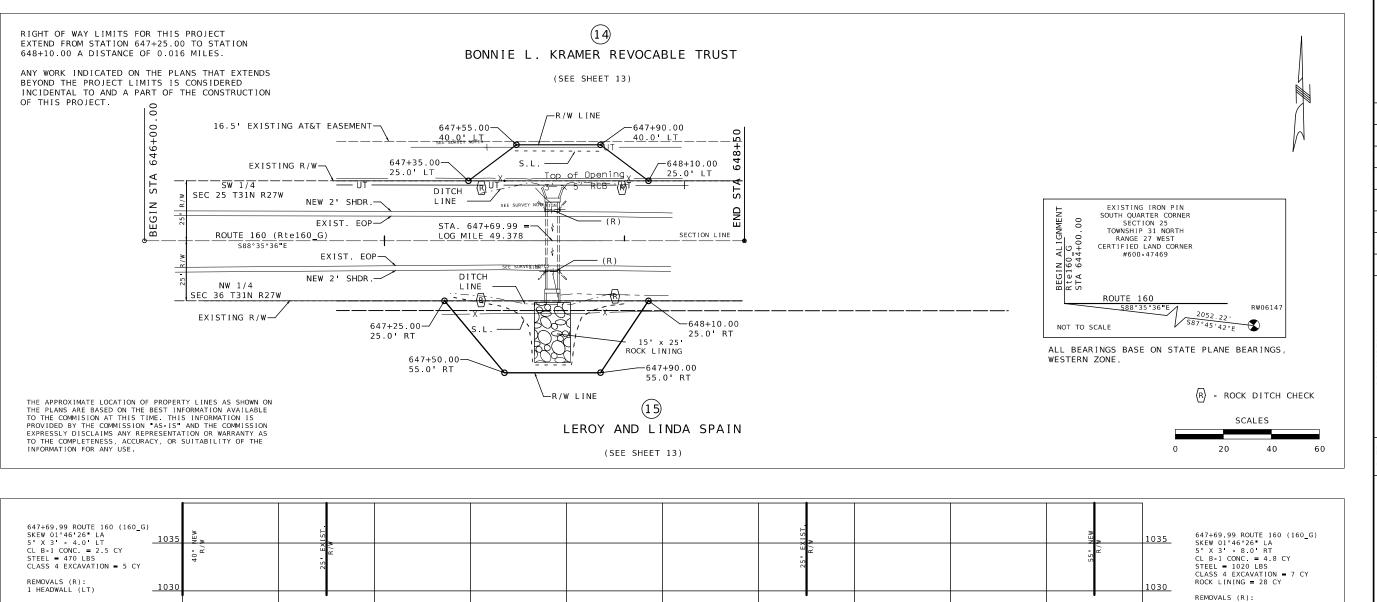


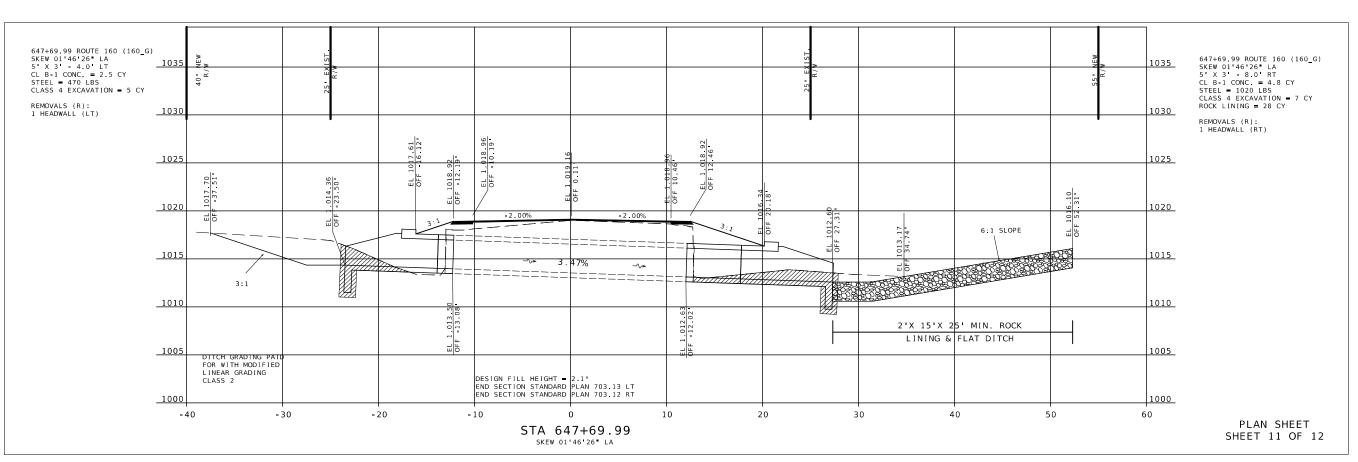












CAAG ALAM
SWITZER
NUMBER
PE-2003015045

09/11/2024 10:22:39 AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 DATE PREPARED

9/11/2024

ROUTE STATE
160 MO

DISTRICT SHEET NO
SW 14

BARTON, DADE

JSR0042 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION
DATE
DESCRIPTION

SOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPIT

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 659+25.00 TO STATION 660+20.00 A DISTANCE OF 0.018 MILES.

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

ALL BEARINGS BASE ON STATE PLANE BEARINGS,

THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISION 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.

WESTERN ZONE.

SW 1/4 SEC 25 T31N R27W DITCH -EXISTING R/W -LINE NEW 2 SHOR EXISTING IRON PIN SOUTH QUARTER CORNER SECTION 25 TOWNSHIP 31 NORTH RANGE 27 WEST CERTIFIED LAND CORNER #600-47469 — EXIST. EOP STA. 659+75.07= ROUTE,160 (Rte160\_H) LOG MILE 49 605 -S88°26 40"E -EXIST. EOP —(R) BEGIN -EXISTING R/W RW06147 -660+20.00 659+25.00-DITCH NOT TO SCALE 25 0' RT 25.0' RT LINE — 25 ' ROCK ZINING NW 1/4 SEC 36 T31N R27W BONNIE L. KRAMER REVOCABLE TRUST - ROCK DITCH CHECK (SEE SHEET 13) 659+55.00 660+00.00 65 0' RT 65.0' RT SCALE R/W LINE

1040 1040 659+75.07 ROUTE 160 (160\_H)
SKEW 00°58'04" RA
6' X 4' - 7.9' RT
CL B-1 CONC. - 5.8 CY
STEEL = 1140 LBS
CLASS 4 EXCAVATION - 0 CY 659+75.07 ROUTE 160 (160\_H) 659+75.07 ROUTE 160 (160\_H SKEW 00°58'04" RA 6' X 4' - 2.4' LT CL B-1 CONC. = 1.9 CY STEEL = 360 LBS CLASS 4 EXCAVATION = 2 CY 1035 1035 REMOVALS (R): REMOVALS (R): 1 HEADWALL (RT) 1 HEADWALL (LT) 1030 1030 EL 1,0 OFF -1 FF 1025 1025 EL 1,01 OFF 53. 1020 1020 6:1 SLOPE 1015 1015 EL 1,016 8 OFF 12.26 EL OFF 1010 1010 DITCH GRADING PAID FOR WITH MODIFIED LINEAR GRADING 2'X 15'X 25' MIN. ROCK DESIGN FILL HEIGHT = 2.5 END SECTION STANDARD PLAN 703.14 LT. & RT CLASS 2 LINING & FLAT DITCH 1005 1005 -40 -30 -20 -10 10 20 30 40 50 60 65 PLAN SHEET SHEET 12 OF 12 STA 659+75.07

SKEW 00°58'04" RA

CRAIG ALAN SWITZER PE-2016 NUMBER 09/11/2024 10:23:09 AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 9/11/2024 160 MO SHEET NO

 $\mathsf{SW}$ 15 BARTON, DADE

> JSR0042 CONTRACT ID.

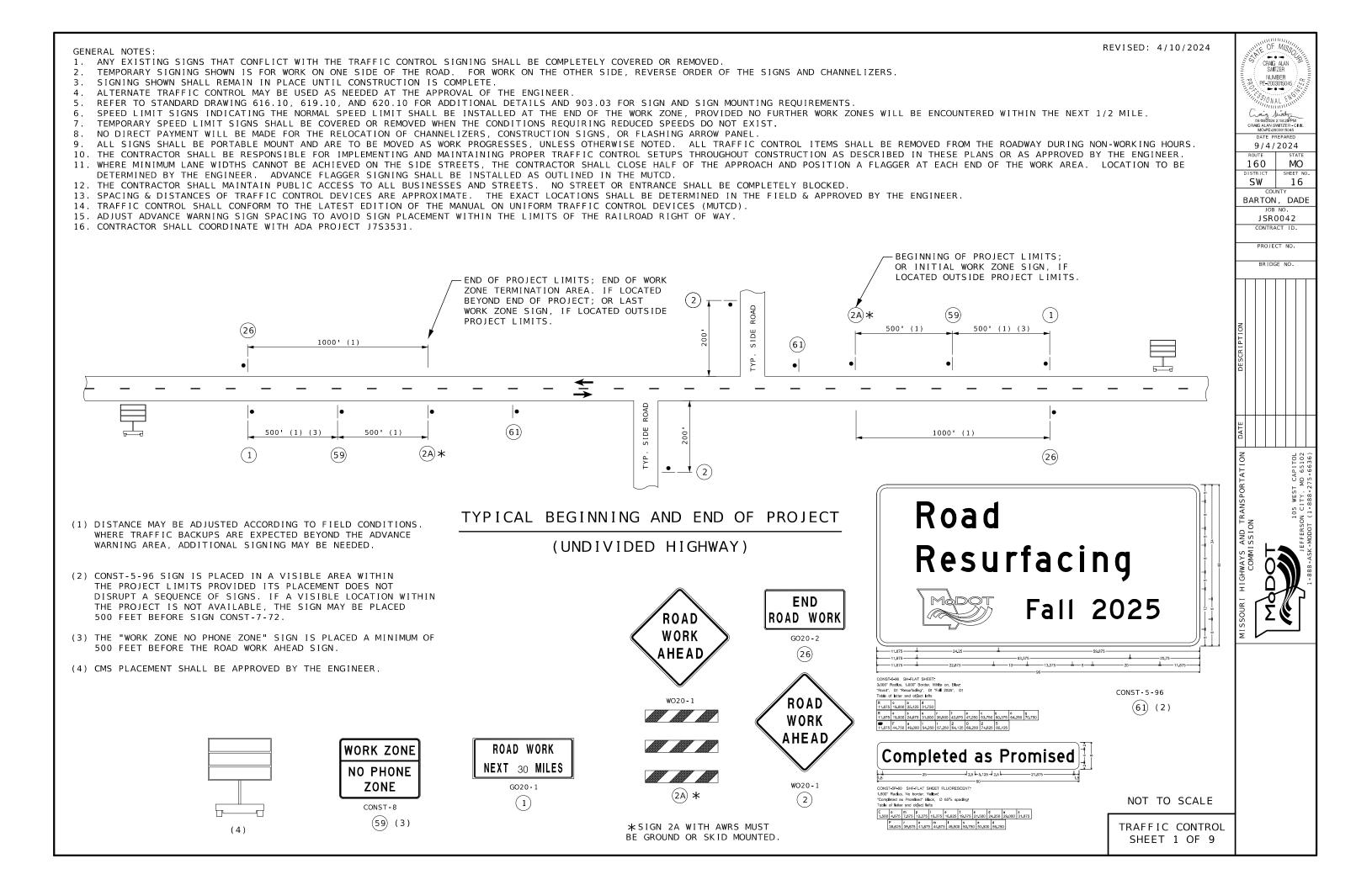
PROJECT NO.

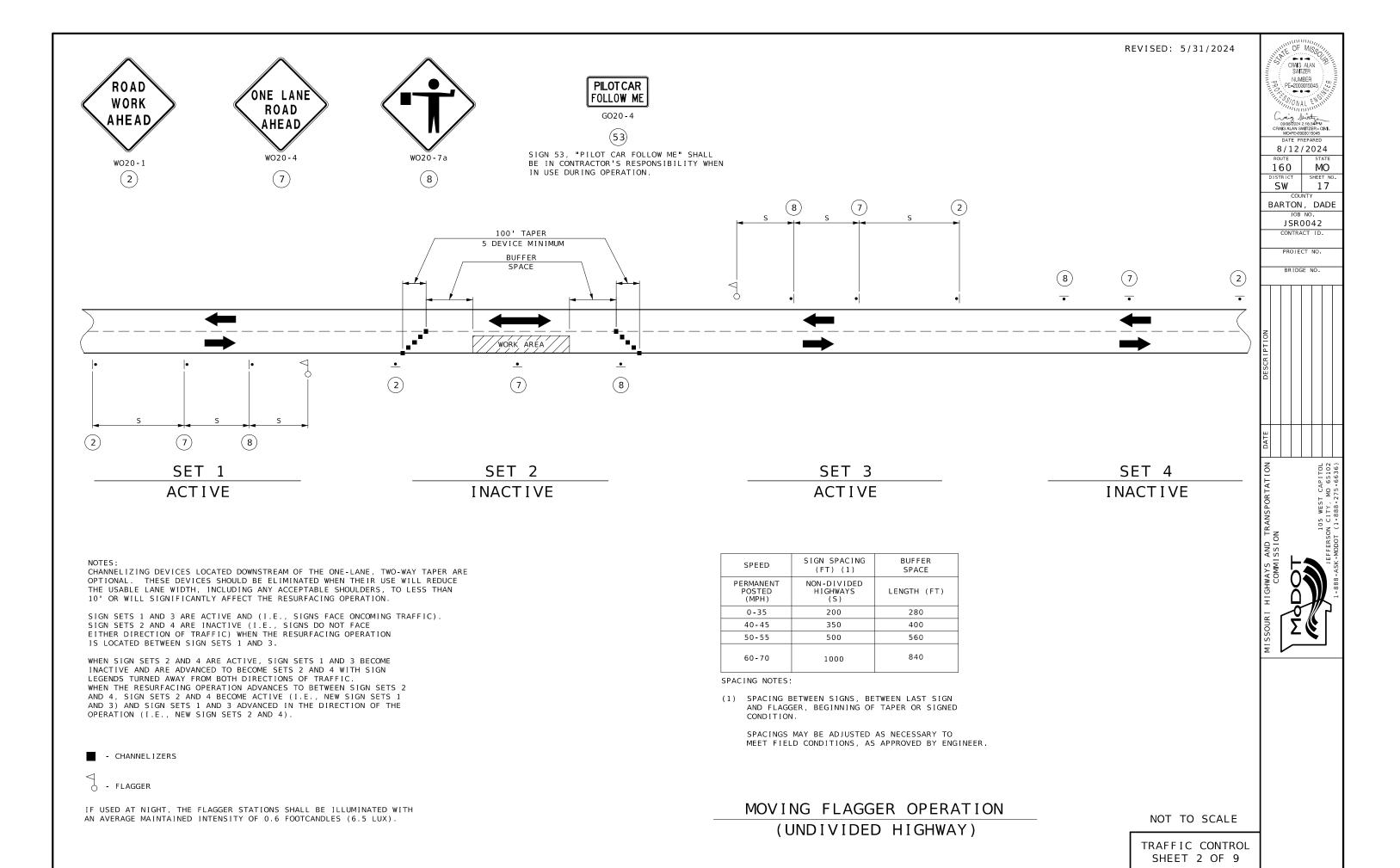


40

20

60





#### REVISED: 5/31/2024

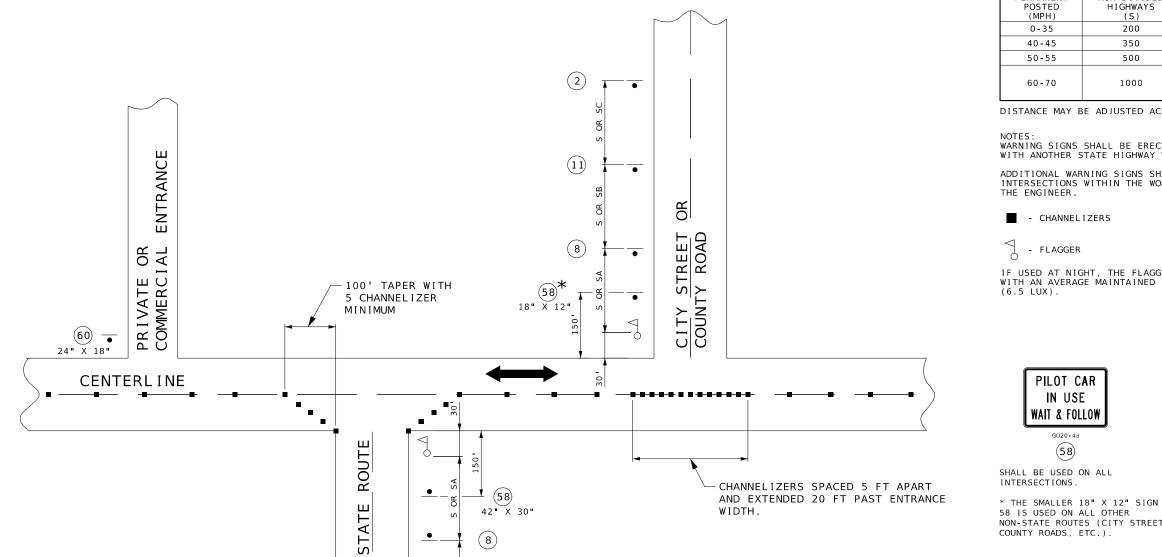
## SIDE ROADS ENTERING WORK ZONES

PREPARED

TO STOP

WO3-4

(11)



WORK AHEAD

WO20-1

2

(11)

(2)

SPEED	SIGN SPACING (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.

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 (6.5 LUX).

NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

8



(60)

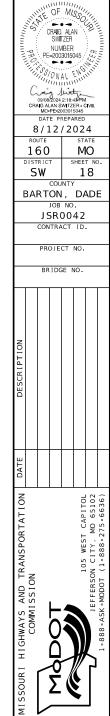
SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.

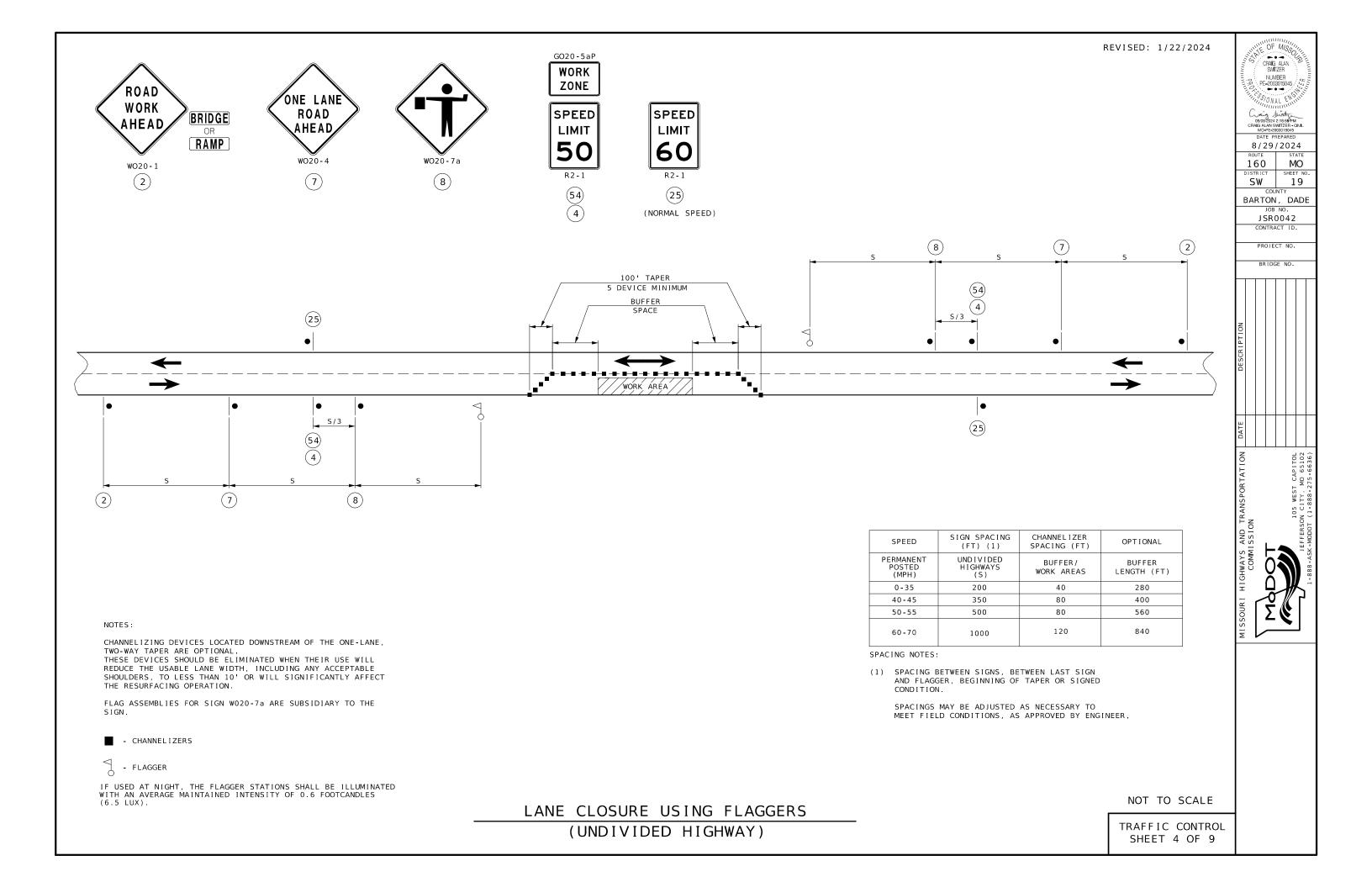


24 X 18

NOT TO SCALE

TRAFFIC CONTROL SHEET 3 OF 9





#### NOTES:

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

PROTECTIVE TRUCKS 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, OSCILLATING, OR STROBE LIGHTS.

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.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
- (2) 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.
- (3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

CRAG ALAN SWITZER NUMBER PE-2003015045

O9082024 2:19:0PPM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 DATE PREPARED

8/12/2024

ROUTE STATE
160 MO

DISTRICT SHEET NO.

SW 20

BARTON, DADE

JOB NO.

JSR0042

CONTRACT ID.

PROJECT NO.

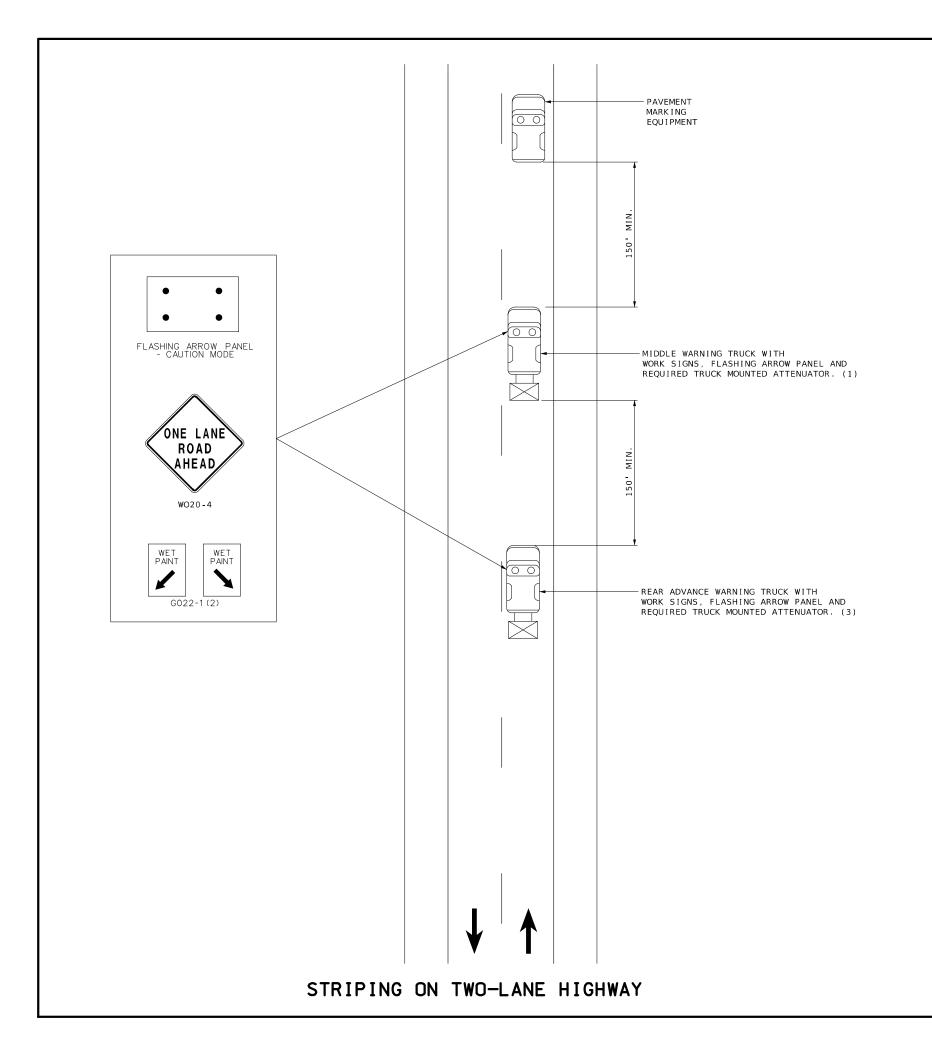
BRIDGE NO.

ATE DESCRIPTION

SSOURI HIGHWAYS AND TRANSPORTATIO
COMMISSION
MADOT

105 WEST CAPITO
LEFERSON CITY MO 6510

NOT TO SCALE

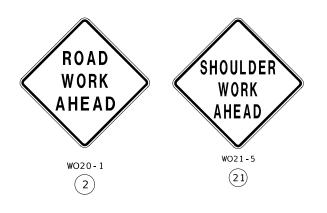


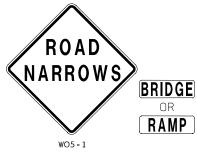
TRAFFIC CONTROL SHEET 5 OF 9

REVISED: 5/11/2023

## SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT OR NO ENCROACHMENT (UNDIVIDED HIGHWAY)

(UNDIVIDED HIGHWAY)





NEXT XX MILES WO7 - 3a

(43) **\*** 

**★**OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.

GO20-5aP WORK ZONE

**SPEED** LIMIT

SPEED LIMIT

(25) (NORMAL SPEED)

(2) (21) <u>•</u> (25) 100' TAPER 5 DEVICE MINIMUM 10' MINIMUM LANE WIDTH 25) 🕡 (54) (4) (43) \*

-(21) <del>-</del> <u>• (21)</u>-NOT TO SCALE

WORK BEYOND THE SHOULDER

MO-PE-20	03015045					
DATE PREPARED						
9/4/	2024					
ROUTE	STATE					
160	MO					
DISTRICT	SHEET N					
SW	21					
COU	NTY					
BARTON	,					
JOB	NO.					
, 011	0042					
CONTRA	CT ID.					
PROJE	CT NO.					



TRAFFIC CONTROL

SHEET 6 OF 9

SPEED	SIGN SPACING (FT)		LENGTH T)	OPTIONAL		INELIZER ING (FT)
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER(1) (T1)	LANE(2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	70	245	250	35	40
40-45	350	150	540	360	40	80
50-55	500	185	660	495	50	80
60-70	1000	235	840	730	60	120

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
- (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
- (3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

## TYPICAL CLOSURE OF EXISTING BRIDGES OR NON-TRAVERSABLE ROADS

SPEED	SIGN SPAC	ING (FT.)	TAPER LEN	GTH (FT.)	OPTIONAL	CHANNEL I ZER	SPACING (FT.)
-							
NORMAL	UNDIVIDED	DIVIDED	SHOULDER	LANE	BUFFER	TAPERS	BUFFER/
POSTED					LENGTH (FT.)		WORK AREAS
(MPH)	(S)	(S)	(T1)	(T2)	(B)		
0-35	200	200	_	_	250	_	_
40-45	350	500	_	_	360	-	_
50-55	500	1000	_	_	495	_	_
		SA - 1000					
60-70	1000	SB - 1500	_	_	730	_	_
		SC - 2640					

TYPE OF ROADWAY	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MI.
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MI.

CRAIG ALAN SWITZER NUMBER

09/09/2024 2:19:30 PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 DATE PREPARED 9/4/2024

BARTON, DADE

JOB NO.

JSR0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MO

22

160

SW

TRAFFIC CONTROL SHEET 7 OF 9

REFER TO EPG 606.1.3.5 CLOSURES OF EXISTING STREETS, ROADS, AND BRIDGES OR NON-TRAVERSABLE ROADS FOR BRIDGE AND/OR ROAD CLOSURES DESIGNATED NON-TRAVERSABLE

- (1) THE ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY SIGN SHOULD BE LOCATED AT THE FIRST STATE ROUTE OR, UPON THE DISCRETION OF THE SUPERVISOR, ANY OTHER INTERSECTION IN ADVANCE OF THE CLOSURE.
- (2) ADDITIONAL BARRICADES MAY BE USED AND OFFSET TO FACILITATE ACCESS FOR LOCAL TRAFFIC, ETC.
- (3) THE USE OF TYPE D GUARDRAIL AND TYPE 4 OBJECT MARKERS VERSUS TYPE III BARRICADES AND TEMPORARY CONCRETE TRAFFIC BARRIERS ARE DEPENDENT UPON THE DISTRICT/CENTRAL OFFICE REPLACEMENT SCHEDULE.

TRAFFIC CONTROL SHOULD BE REMOVED AS SOON AS PRACTICAL AFTER CONDITION FOR THE CLOSURE NO LONGER EXISTS.

FOR ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM (AWRS).

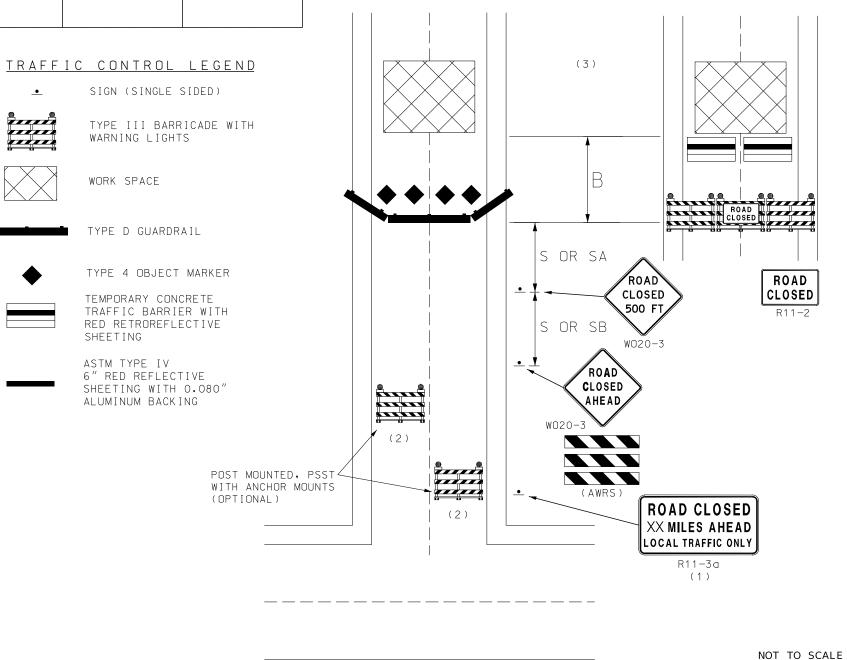
REFER TO STANDARD PLANS FOR HIGHWAY CONSTRUCTION 606.00 GUARDRAIL TYPE D FOR GUARDRAIL AND POST-MOUNTED TYPE III BARRICADES.

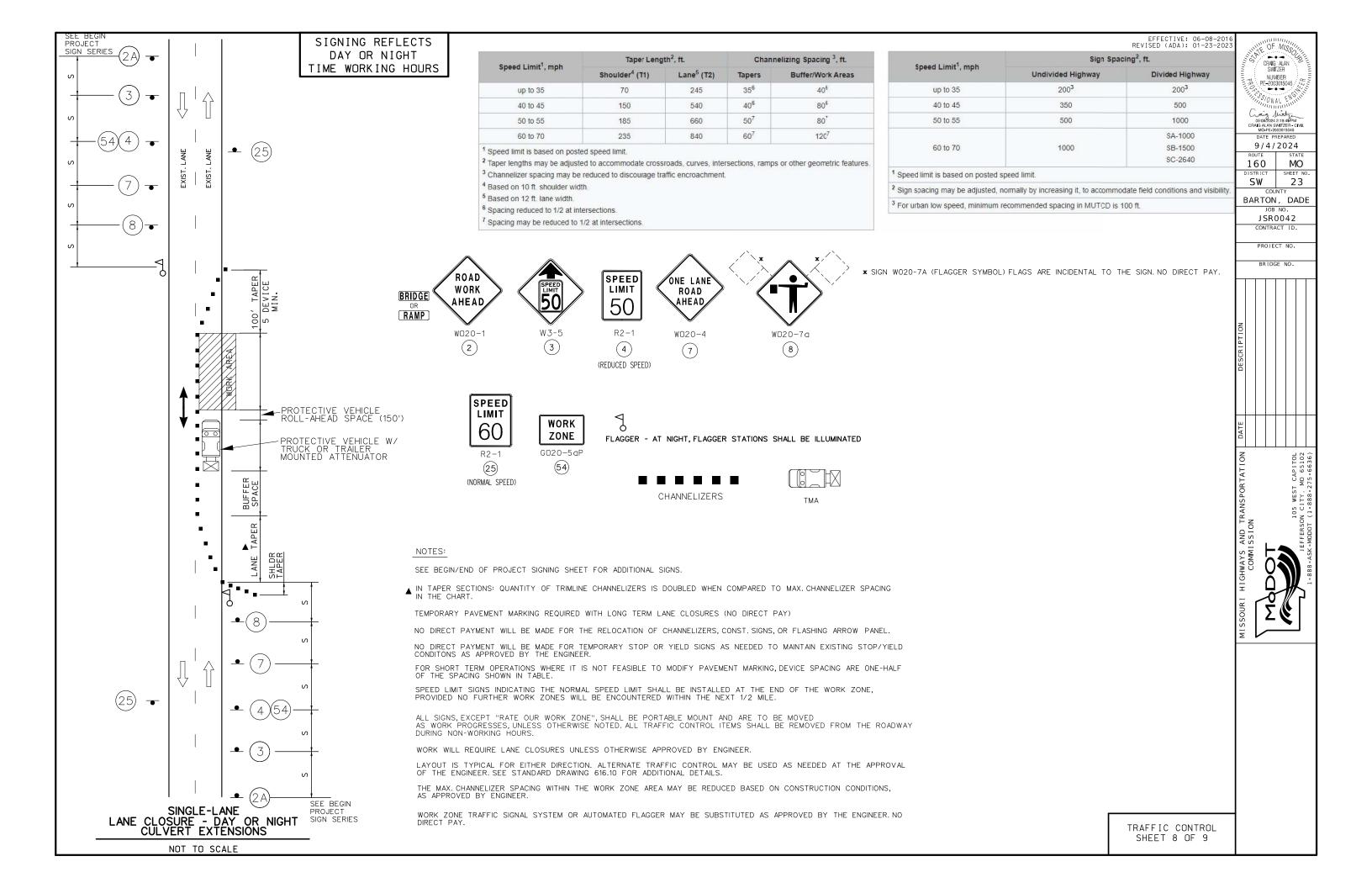
REFER TO STANDARD PLANS FOR HIGHWAY CONSTRUCTION 616.10 TEMPORARY TRAFFIC CONTROL DEVICES FOR TYPE III BARRICADES.

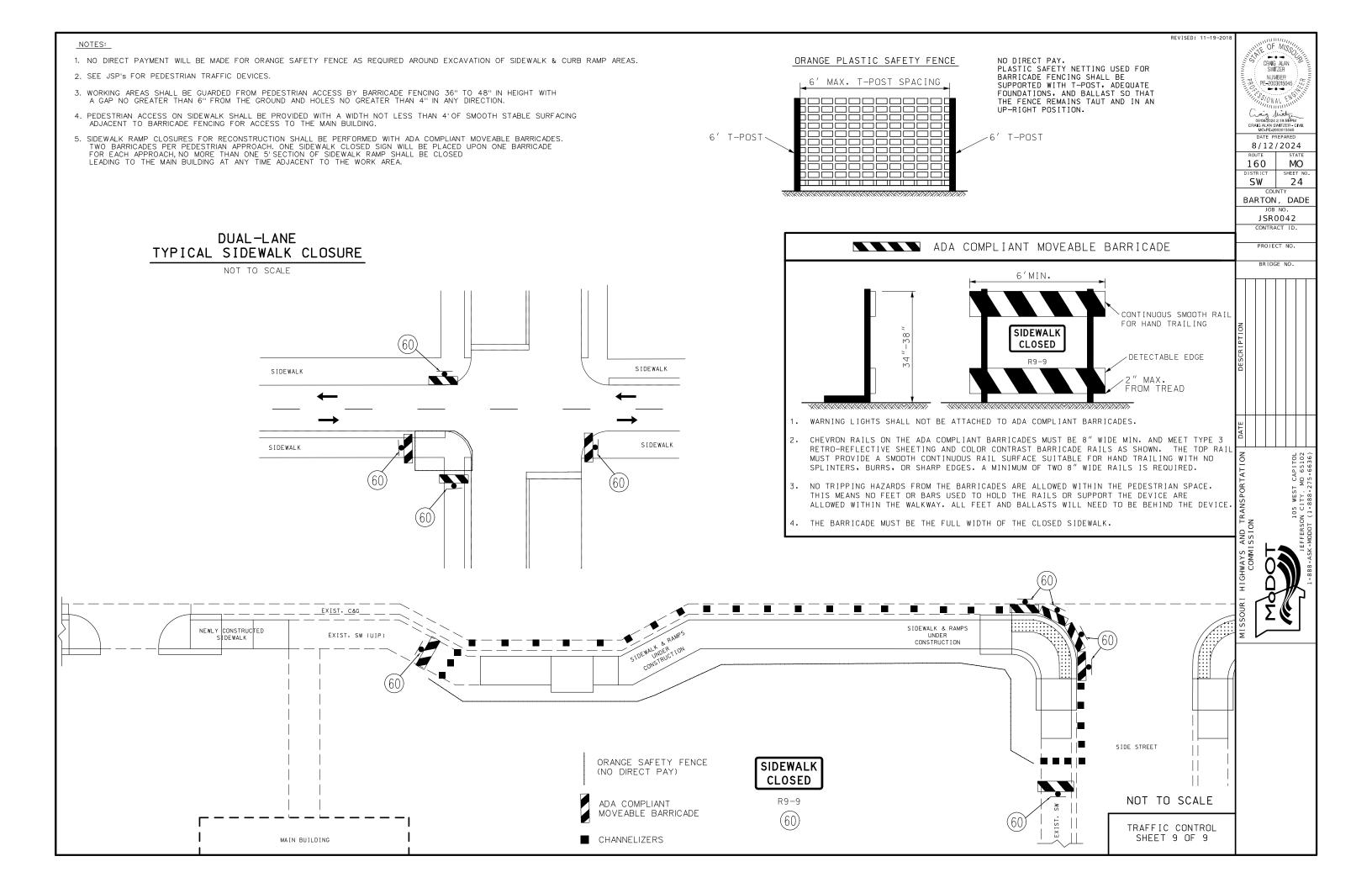
REFER TO STANDARD PLANS FOR HIGHWAY CONSTRUCTION 903.03 SIGN MOUNTING DETAILS DELINEATORS OBJECT MARKERS FOR TYPE 4 OBJECT MARKER.

REFER TO STANDARD PLANS FOR HIGHWAY CONSTRUCTION 617.20 TEMPORARY CONCRETE TRAFFIC BARRIER FOR CONCRETE BARRIERS.

REFER TO STANDARD PLANS FOR HIGHWAY CONSTRUCTION 1042 HIGHWAY SIGN MATERIAL FOR 6-INCH WIDE, 10-12-FOOT LONG RED RETROFLECTIVE SHEETING.

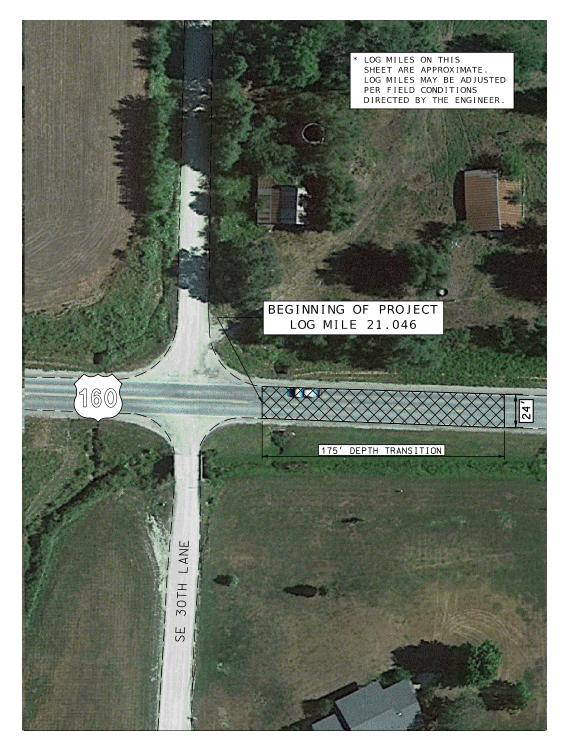






# PROJECT BEGINNING AND ENDING DEPTH TRANSITIONS

## BEGINNING OF PROJECT



NOT TO SCALE



## END OF PROJECT



NOT TO SCALE



CONTINUE PAVEMENT MARKING TO END OF PROJECT, LM 49.944

> SPECIAL SHEET SHEET 1 OF 6

9/11/2024 160 MO

SW 25 BARTON, DADE

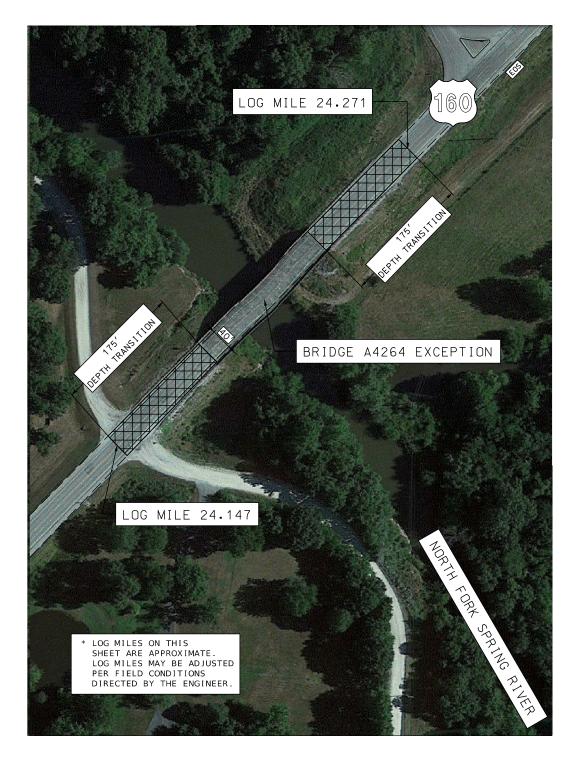
JOB NO. JSR0042 CONTRACT ID.





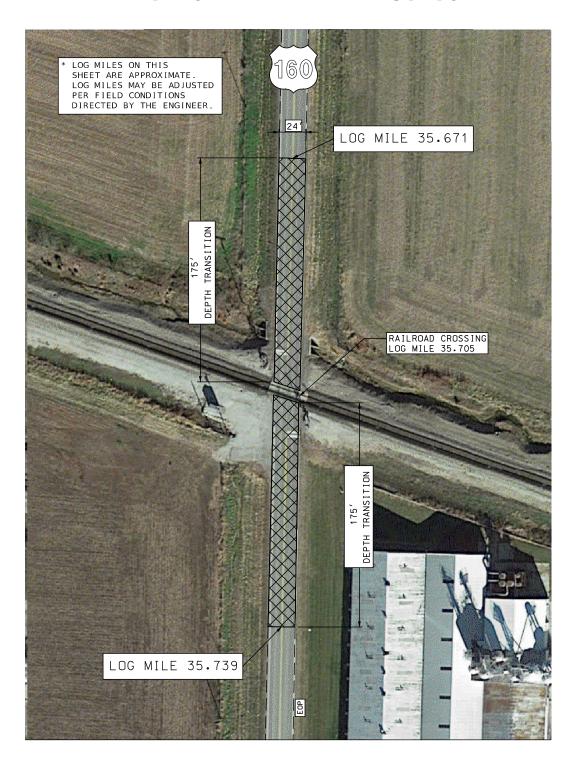
# PROJECT DEPTH TRANSITIONS

## BRIDGE A4264





## RAILROAD DEPTH TRANSITION





9/4/2024 160 MO SW 26

BARTON, DADE JOB NO. JSR0042 CONTRACT ID.

PROJECT NO.

NOT TO SCALE



NOT TO SCALE



SPECIAL SHEET SHEET 2 OF 6

# PROJECT DEPTH TRANSITIONS

## BRIDGE TRANSITIONS





## BRIDGE AND RAILROAD TRANSITIONS



NOT TO SCALE





SPECIAL SHEET SHEET 3 OF 6

9/4/2024 160 MO SW 27

BARTON, DADE JSR0042 CONTRACT ID.

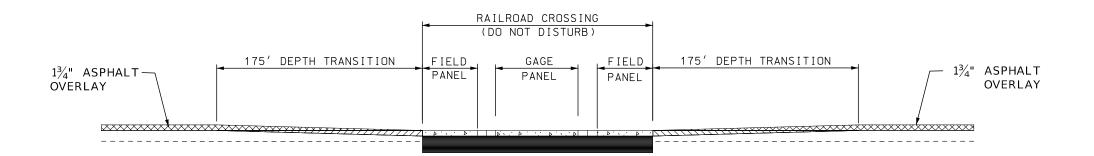
PROJECT NO.

BRIDGE NO.

NOT TO SCALE



# PROJECT DEPTH TRANSITIONS



ROUTE 160
LOG MILES 35.705 AND 38.559

TYPICAL RAILROAD CROSSING
NOT TO SCALE

CAAG ALAN
CAAG A

09/08/2024 2:20:40 PM CRAIG ALAN SWITZER - CIV MO-PE-2003015045 DATE PREPARED

8/12/2024

ROUTE STATE
160 MO
DISTRICT SHEET NO.
SW 28

BARTON, DADE

JOB NO.
JSR0042
CONTRACT ID.

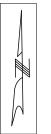
PROJECT NO.

DESCRIPTION

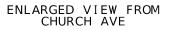
ISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
TO TO THE TEREBON CITY, MO 65102
LEFFERSON CITY, MO 65102

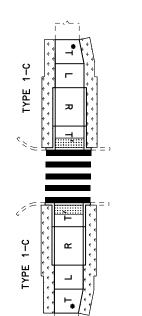
NOT TO SCALE

SPECIAL SHEET SHEET 4 OF 6





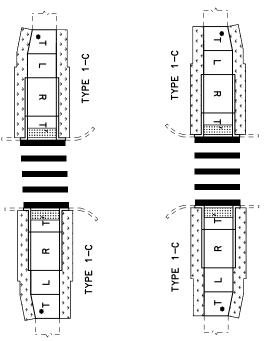




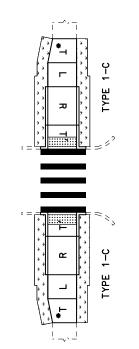
NOTES: CONTRACTOR SHALL COMPLETE ALL ADA WORK AT ONE INTERSECTION BEFORE MOVING TO ANOTHER INTERSECTION.

INSTALL MIDBLOCK CROSSINGS IN ACCORDANCE WITH STANDARD PLAN 620.00N.

ENLARGED VIEW FROM MILL ST

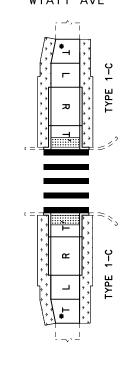


ENLARGED VIEW FROM DEPOT AVE



FOR MORE DETAILS SEE TYPICAL SHEETS FOR PIPE DETAILS SEE SHEET 30

ENLARGED VIEW FROM WYATT AVE



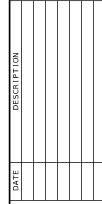
SPECIAL SHEET

9/4/2024 160 MO SW 29

BARTON, DADE JOB NO. JSR0042

CONTRACT ID. PROJECT NO.

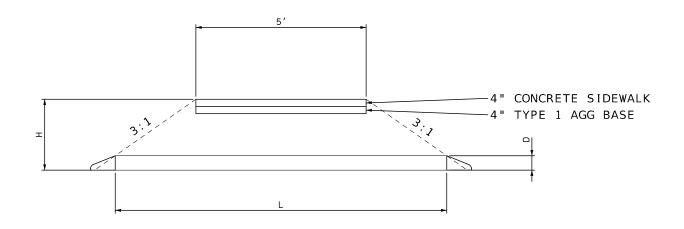
BRIDGE NO.





NOT TO SCALE

SHEET 5 OF 6



## SIDEWALK AND PIPE DETAILS

LOCATION	H (FT)	D (IN)	L (FT)	REMARKS
CHURCH AVE NE	4.2	24	19	2-24 GROUP C FES
CHURCH AVE SE	2.75	18	13	2-18 GROUP C FES
MILL ST NW	-	-	-	CROWN, NO PIPE
MILL ST SW	-	-	-	CROWN, NO PIPE
MILL ST NE	3.8	18	19	2-18 GROUP C FES
MILL ST SE	3.0	15	16	2-15 GROUP C FES
DEPOT AVE NW	1.9	15	9	2-15 GROUP C FES
DEPOT AVE SW	2.7	15	14	2-15 GROUP C FES
WYATT AVE NW	-	-	-	CROWN, NO PIPE
WYATT AVE SW	-	-	-	CROWN, NO PIPE

0908024 221:04PM
CRAIG ALAN SWITZER - CIVIL
MO-PE-2003015045

DATE PREPARED
9/4/2024

route State MO SW SHEET NO.

COUNTY
BARTON, DADE
JOB NO.
JSR0042
CONTRACT ID.

PROJECT NO.



NOT TO SCALE

SPECIAL SHEET SHEET 6 OF 6

sq foot

sq. yard

sq. foot

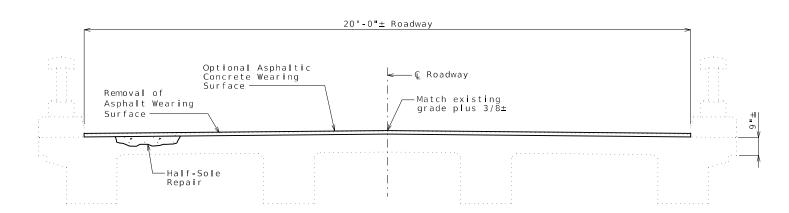
Total

5250

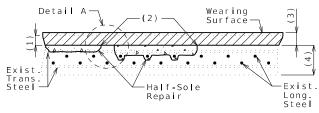
583

50

#### U.I.P. AND REHABILITATE EXISTING (50',52.5',52.5',52.5',50') SIMPLE REINFORCED CONCRETE DECK GIRDER SPANS



#### TYPICAL SECTION THRU EXISTING DECK



HALF-SOLE REPAIR

- (1) Removal of existing 1.4"± asphalt wearing
- (2) 1" vertical side shall be established outside
- (3) 1 3/4" minimum asphaltic concrete wearing surface
- (4) Original depth of deck.

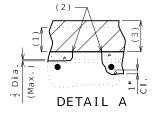
Optional Aspha	
Concrete Wearing	Surface
Type of Wearing Surface with Asphalt Binder Type	Mix Used (✓)
SP125BSM Mix with PG 76-22	
SP125BLP Mix with PG 76-22	
SP125BSM Mix with PG 70-22	
SP125CLP Mix with PG 70-22	

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

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

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

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



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

Half-Sole Repair

#### General Notes: Design Specifications:

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

#### Design Loading:

H15 (1928), HS20-44 (New Construction)

emoval of Asphalt Wearing Surface

#### Design Unit Stresses:

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

#### Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

Estimated Quantities

I t em

Optional Asphaltic Concrete Wearing Surface (Bridges)

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

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

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

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

#### Traffic Handling:

Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.

TIMOTHY D. LEAF NUMBER PE-2012000778 S/ONAL S

6/28/2023 160 MO SHEET NO

BR 1 BARTON JSR0042 CONTRACT ID.

PROJECT NO.

BRIDGE NO H09011

REPAIRS TO BRIDGE: ROUTE 160 OVER NORTH FORK OF SPRING RIVER

ROUTE 160 FROM ROUTE VV TO ROUTE U ABOUT 0.1 MILE SOUTH OF ROUTE VV BEGINNING STATION 748+50.00± (Match Existing)

#### DESIGN DESIGNATION

A.A.D.T. - 2023 = 7103 A.A.D.T. - 2033 = 7139 D.H.V. = 8.76% V = 40-60 M.P.H.

D = 50.8%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

#### NO NEW R/W REQUIRED

#### CONVENTIONAL SYMBOLS (USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	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 -	- F0 - OTV - UTV - OE - UE - S - S - G - W
MANHOLE	HYD	)
FIRE HYDRANT	w C	]
WATER VALVE	wn C	)
WATER METER	E	)
DROP INLET		
DITCH BLOCK	=	<b>=</b>
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED △  — ∨ — ×	
BENCHMARK	BM 🛇	)
***	∨	,

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY





# 15 16 23 21 22 160 27 28 27 KK '34 35 T32N 32 T31N T32N 34 T31N PROJECT LIMITS 2.0" SP125C MILL AND FILL

#### NOT TO SCALE

LOCATION OF BARTON COUNTY

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

### INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4 - 5
TRAFFIC CONTROL SHEETS (TC)	6 - 14

CRAIS ALAN SMIZER PE-200015045 STATE OF MISSON ALAN SMIZER PE-200015045 STATE OF MISSON ALAN SWIZER COLL MOCH 200015045 CTL.									
DATE PREPARED 8/26/2024									
		<sup>UTE</sup>		STATE MO					
[		RIC	Т	SHEET NO.					
	5	W	COL	1 NTY					
			AR						
			JOB						
			SR						
			ITRA						
	PROJECT NO.								
BRIDGE NO.									
							-		

### LENGTH OF PROJECT

BEGINNING OF PROJECT EB LOG MILE 17.750 EB LOG MILE 21.046 END OF PROJECT APPARENT LENGTH

17,402.88 FEET

EQUATIONS AND EXCEPTIONS:

BRIDGE A4108 LM 18.280-18.335 290.40 FEET

TOTAL CORRECTIONS 290.40 FEET NET LENGTH OF PROJECT 17,112.48 FEET STATE LENGTH 3.241 MILES FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

0 ACRES

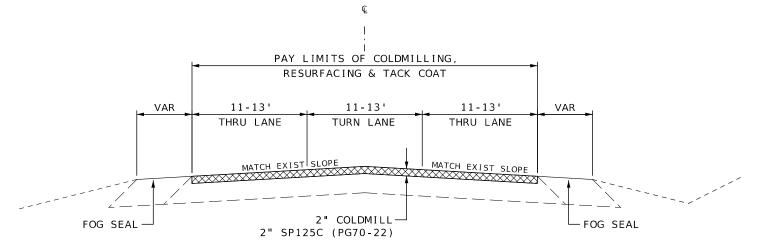
NOTES: LANE WIDTH NOTED IS TYPICAL LANE WIDTH.

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



ROUTE 160

LOG MILE 17.750 TO LOG MILE 17.914 LOG MILE 17.995 TO LOG MILE 18.255 LOG MILE 18.550 TO LOG MILE 19.518 LOG MILE 19.570 TO LOG MILE 20.300 
 COMBINED FACTOR
 % AC

 SP125C (PG70-22)
 1.970 TONS/CY
 5.4

 FOG SEAL
 0.20 GAL/SY

REVISED: 3/6/2023

TACK COAT

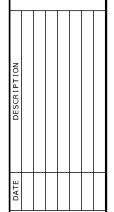
ASPHALT FACTORS

MILLING 0.10 GAL/SY

BRIDGE EXCEPTION:

LOG MILE 18,280 TO LOG MILE 18,335

IRREGULARITIES: 75 TONS/MI



8/12/2024

BARTON

JSR0163

CONTRACT ID.

BRIDGE NO.

MO

2

160

SW

COMMISSION
COMMISSION

TODOT

105 WEST CAPITO
11.888.555.5675.6531

CONCRETE EXCEPTION:

LOG MILE 17.914 TO LOG MILE 17.995

PAY LIMITS OF COLDMILLING,
RESURFACING & TACK COAT

VAR

10-12'

THRU LANE

THRU LANE

MATCH EXIST SLOPE

MATCH EXIST SLOPE

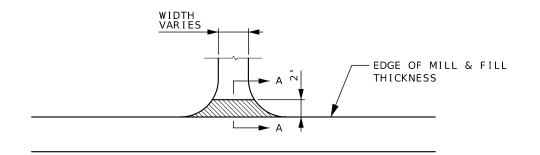
2" COLDMILL
2" SP125C (PG70-22)

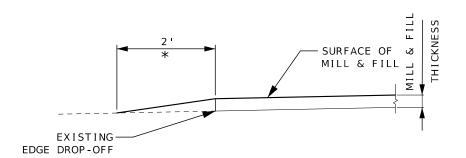
ROUTE 160

LOG MILE 18.255 TO LOG MILE 18.280 LOG MILE 18.335 TO LOG MILE 18.550 LOG MILE 19.518 TO LOG MILE 19.570 LOG MILE 20.300 TO LOG MILE 21.046

TYPICAL SECTIONS SHEET 1 OF 3

REVISED: 3/7/2023





### SECTION A-A

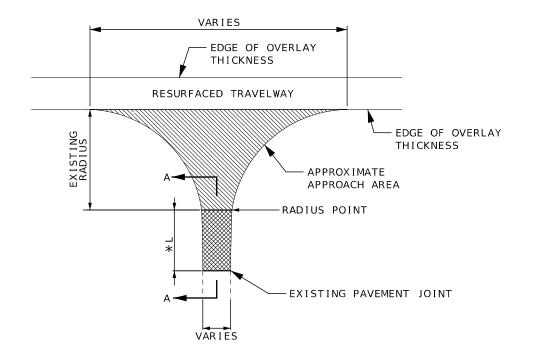
TYPICAL ENTRANCE - NO SHOULDER (FIELD, PRIVATE OR COUNTY ROAD)
\*TAPER AT 1:1 FOR FIELD ENTRANCE

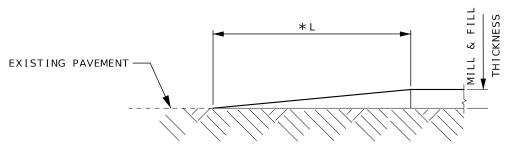
NOTE: 4 TONS GRAVEL A OR CRUSHED STONE CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.

09/01/2024 8:34:34 PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 DATE PREPARED 8/12/2024 160 MO SHEET NO. SW BARTON JOB NO.
JSR0163
CONTRACT ID. PROJECT NO. BRIDGE NO.

REVISED: 3/7/2023





### SECTION A-A

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

\* LENGTH FROM RADIUS POINT TO EXISTING PAVEMENT JOINT:

NORTHWEST OUTER ROAD L = 0' (2" MILL & FILL SP125C PG70-22) SOUTHBOUND OFF RAMP L = 50' (2" MILL & FILL SP125C PG70-22) SOUTHBOUND ON RAMP L = 50' (2" MILL & FILL SP125C PG70-22) NORTHEAST OUTER ROAD L = 20' (0.75" MILL & TYPE C UBAWS) SOUTHEAST OUTER ROAD L = 15' (0.75" MILL & TYPE C UBAWS) ROUTE KK L = 0' (2" MILL & FILL SP125C PG70-22)

09032024 6:30:22 AM
CRAIG ALAN SWITZER - CIVIL
MO-PE-2003015045
DATE PREPARED 9/3/2024 160 MO SW 2 BARTON JSR0163 CONTRACT ID. PROJECT NO. BRIDGE NO.

	REMOVAL OF IMPROVEMENTS									
ROUTE	LOG MILE	-	LOG MILE	LOCATION	DESCRIPTION	DESCRIPTION UNITS TOTAL REMARKS		REMARKS		
160	18.265	-	18.289	LT	GUARDRAIL AND TURNDOWNS	LF	125	NW CORNER BR A4108		
160	18.265	-	18.289	RT	GUARDRAIL AND TURNDOWNS	LF	125	SW CORNER BR A4108		
160	18.336	-	18.360	LT	GUARDRAIL AND TURNDOWNS	LF	125	NE CORNER BR A4108		
160	18.336	-	18.360	RT	GUARDRAIL AND TURNDOWNS	LF	125	SE CORNER BR A4108		
	TOTAL 1 LUMP SUM									

		COL	OMILLI	NG BITU	MINOUS	PAVEMENT	FOR REMOVAL OF SURFACE (3 IN. THICK OR LESS)
				NET	AVERAGE		
	LOG		LOG	LENGTH	WIDTH	l area l	
I DOLLE		То		LF	LF	SY	DEMARKS
ROUTE	MILE	10	MILE				REMARKS
160	17.750	<u> </u>	17.766	84.5	32.0	300.4	
160	17.766	-	17.914	781.4	36.0	3125.6	
160	17.766	<u> </u>	17.914	781.4	VAR	-130.3	EXCLUDE RAISED ISLAND AREAS (3)
160	17.815	-	17.890	VAR	VAR	2191.0	NW OUTER ROAD AND SOUTHBOUND I-49 OFF RAMP
160	17.841	-	17.895	VAR	VAR	991.0	SOUTHBOUND I-49 ON RAMP
160	17.995	-	18.207	1119.4	36.0	4477.6	
160	17.998	-	18.033	VAR	VAR	694.0	NORTHEAST OUTER ROAD
160	18.013	-	18.045	VAR	VAR	827.0	SOUTHEAST OUTER ROAD
160	17.998	-	18.033	VAR	VAR	-49.3	EXCLUDE RAISED ISLAND AREAS (2)
160	18.207	-	18.255	253.4	30.0	844.7	WIDTH TAPERS FROM 36'-24'
160	18.255	T -	18.280	132.0	24.0	352.0	STOP AT BRIDGE A4108
160	18.335	T -	18.550	1135.2	24.0	3027.2	START AFTER BRIDGE A4108
160	18.550	-	18.581	163.7	30.0	545.7	WIDTH TAPERS FROM 24'-36'
160	18.581	-	19.474	4715.0	36.0	18860.0	
160	19.474	-	19.518	232.3	30.0	774.3	WIDTH TAPERS FROM 36'-24'
160	19.518	-	19.570	274.6	24.0	732.3	
160	19.570	T -	19.609	205.9	30.0	686.3	WIDTH TAPERS FROM 24'-36'
160	19.609	T -	20.248	3373.9	36.0	13495.6	
160	19.613	-	19.631	95.0	VAR	221.0	KK INTERSECTION APPROACH
160	20.248	-	20.300	274.6	30.0	915.3	WIDTH TAPERS FROM 36'-24'
160	20.300	<u> </u>	21.046	3938.9	24.0	10503.7	
		•			TOTAL	63385.1	
					USE	63386	
							<del>-</del>

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

CONTRACTOR FURNISHED SURVEYING & STAKING

1 LUMP SUM

MOBILIZATION
1 LUMP SUM

								BITUMINOUS I	PAVEMENT		
				NET	AVERAGE	APPROACH	2"	UBAWS	FOG		
	LOG		LOG	LENGTH	WIDTH	AREA	SP125C PG70-22	TYPE C	SEAL	TACK	
ROUTE	MILE	то	MILE	LF	LF	SY	TONS	SY	GAL	GAL	REMARKS
160	17.750	- 1	17.766	84.5	32.0		33.5		37.6	30.0	
160	17.766	- 1	17.914	781.4	36.0		348.9		347.3	312.6	
160	17.766	- 1	17.914	781.4	VAR	-130.3	-14.3		N/A	-13.0	EXCLUDE RAISED ISLAND AREAS (3)
160	17.815	- 1	17.890	396.0	VAR	2191.0	239.8		153.4	219.1	NW OUTER ROAD AND SOUTHBOUND 1-49 OFF RAME
160	17.841	- 1	17.895	285.1	VAR	991.0	108.5		N/A	99.1	SOUTHBOUND I-49 ON RAMP
160	17.995	- 1	18.207	1119.4	36.0		499.8		298.5	447.8	
160	17.998	- 1	18.033	184.8	VAR	694.0		694.0	32.0		NORTHEAST OUTER ROAD
160	18.013	1 - 1	18.045	169.0	VAR	827.0		827.0	31.0		SOUTHEAST OUTER ROAD
160	17.998	1 - 1	18.033	184.8	VAR	-49.3		-49.3	N/A		EXCLUDE RAISED ISLAND AREAS (2)
160	18.207	1 - 1	18.255	253.4	30.0		94.3		67.6	84.5	WIDTH TAPERS FROM 36'-24'
160	18.255	1 - 1	18.280	132.0	24.0		39.3		52.8	35.2	STOP AT BRIDGE A4108
160	18.335	- 1	18.550	1135.2	24.0		337.9		454.1	302.7	START AFTER BRIDGE A4108
160	18.550	- 1	18.581	163.7	30.0		60.9		65.5	54.6	WIDTH TAPERS FROM 24'-36'
160	18.581	- 1	19.474	4715.0	36.0		2105.4		N/A	1886.0	
160	19.474	- 1	19.518	232.3	30.0		86.4		N/A	77.4	WIDTH TAPERS FROM 36'-24'
160	19.518	- 1	19.570	274.6	24.0		81.7		N/A	73.2	
160	19.570	- 1	19.609	205.9	30.0		76.6		N/A	68.6	WIDTH TAPERS FROM 24'-36'
160	19.609	- 1	20.248	3373.9	36.0		1506.6		N/A	1349.6	
160	19.613	- 1	19.631	95.0	VAR	221.0	24.2		N/A	22.1	KK INTERSECTION APPROACH
160	20.248	- 1	20.300	274.6	30.0		102.2		48.8	91.5	WIDTH TAPERS FROM 36'-24'
160	20.300	- 1	21.046	3938.9	24.0		1172.6		700.2	1050.4	
TRANCES	AND IRRI	EGUL/	ARITIES				•			•	
	17.750		21.046	17402.9			247.2				IRREGULARITIES 75 TONS/MILE
						TOTALS	7151.5	1471.7	2288.8	6191.4	* SAFETY EDGE INCLUDED IN QUANTITY
	_		_		_	USE	7151.5	1472	2289	6192	<u> </u>

CRAIG ALAN SWITZER NUMBER PE-2003015045 Ogioso24 6:30:36AM
CRAIG ALAN SWITZER - CIVI.
MO-FE-2003015045

DATE PREPARED
9/3/2024 ROUTE STATE MO SW 3 BARTON

JOB NO.

JSR0163

CONTRACT ID. PROJECT NO. BRIDGE NO.

SUMMARY OF QUANTITIES
SHEET 1 OF 3

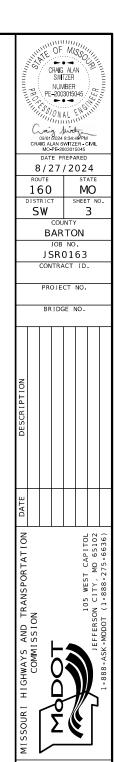
								PAVEM	ENT M	ARK I NG						
					WATERB	ORNE PAIN	T, TYPE F	BEADS	PREFORMED THERMOPLASTIC MARKING							
					4" INT WHITE	4" SOLID WHITE	4" INT YELLOW	4" SOLID YELLOW		24" YELLOW	LEFT/RIGHT ARROW	STRAIGHT ARROW	WORD "ONLY"	RAILROAD CROSSING	30 " MIDBLOCK	
ROUTE	LOG MILE	то	LOG MILE	LOCATION	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	REMARKS
160	17.750		17.800			530.0		1060.0		52.0						
160	17.800		17.850			790.0		530.0	24		2					
160	17.850		17.875			400.0		530.0	12	54	3					
160	17.875		17.955			1270.0		840.0								
160	17.955		18.010			1160.0		580.0	24		4	2	2			
160	18.010		18.050			420.0		420.0	24		1					
160	18.050		18.200			1580.0	400.0	1580.0			2					
160	18.200		18.255			580.0		1160.0		45						
160	18.255		18.280			260.0		260.0								
160	18.280		18.335			581.0		581.0								
160	18.335		18.540			2160.0		2160.0								
160	18.540		18.575			370.0		740.0		36						
160	18.575		19.097				1380.0	5510.0			10				7	
160	19.097		19.130			170.0		350.0	24		1					
160	19.140		19.175			180.0		370.0	24		1					
160	19.175		19.480				810.0	3220.0			6			1		
160	19.480		19.535			580.0		1160.0	12	52						
160	19.540		19.595		•	580.0	•	1160.0	12	52				•		
160	19.595		20.260		•	7020.0	1760.0	7020.0			14			1		
160	20.260		20.320		•	630.0	•	1270.0		45				•		
160	20.320		20.820			5280.0		5280.0								
160	20.820		21.046			2390.0	300.0	1190.0								
				TOTALS	0	26931	4650	36971	156	336	44	2	2	2	7	

	GUARDRAIL									
1						MGS	MGS	TYPE A	SHAPING	
					NET	BRIDGE APPR	GUARDRAIL	CRASHWORTHY	SLOPES	
	LOG		LOG		LENGTH	TRANSITION		MASH	CL III	
ROUTE	MILE	ТО	MILE	OFFSET	FT	EACH	LF	EACH	100 FT	REMARKS
160	18.265	•	18.289	LT	125.0	1	37.5	1	1.6	
160	18.265	•	18.289	RT	125.0	1	37.5	1	1.6	
160	18.336	•	18.360	LT	125.0	1	37.5	1	1.6	
160	18.336	ı	18.360	RT	125.0	1	37.5	1	1.6	
					TOTALS	4	150.0	4	6.4	
					USE	4	150	4	7	

SIGNALS							
RADAR DETECTION SYSTEM, 4 SENSOR	2						
U.S. 160 AND WEST OUTER ROAD							
U.S. 160 AND FAST OUTER ROAD							

LOOP DETECTORS	AT GU	LF STREET
LOCATION	LF	REMARKS
THRU LANES	340	2- 6' X 6'
LEFT TURN LANES	776	2 - 6' X 30'
TOTAL	1116	
USE	1120*	

NDERRUN CABLE LOOP DETECTORS IN ERATIONS OR IF NOT NEEDED FOR NSTRUCTION (SEE COOPERATION TWEEN CONTRACTORS JSP)



																		EFFECTIVE: 07-01-2024
			Ітота	I OTV	TOTAL	CICN			1				OTV	TOTALSIGN				EFFECTIVE: 0/=01=2024
	C 1 7 F	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1 '	1					اممدا	OTV	,	٠ .					
		AREA Q			CRELOC	NUM.			1		`			RELOC NUM.				
SIGN	IN.	SQ.FT.EA	CH SQ.FT	. EACH	I SQ.FT.			SIGN	IN.	SQ.FT.	EACH SC	Q FT	EACH	SQ.FT.	_	ITEM	TOTAL	-
		WA	RNING	SIGNS			DESCRIPTION			(	GUIDE	SIGN	۱S		DESCRIPTION	NUMBER	QTY	DESCRIPTION
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)	E05-1	36X48	12.00					GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1 - 1R							TURN (SYMBOL RIGHT ARROW)	E05-2		12.00					EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1 - 2L	48X48						CURVE (SYMBOL LEFT ARROW)	E05-2a	_	12.00					EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1 - 2R	48X48						CURVE (SYMBOL RIGHT ARROW)	GO20 - 1	_	10.00	2				ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1 - 3L	48X48						REVERSE TURN (SYMBOL LEFT ARROW)	GO20 - 2	_	8.00		16			END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1 - 3R	48X48						REVERSE TURN (SYMBOL RIGHT ARROW)	GO20 - 4	_	4.50		9			PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1 - 4L	48X48						REVERSE CURVE (SYMBOL LEFT ARROW)			8.75	2 1				PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1 - 4R WO1 - 4bL	48X48						REVERSE CURVE (SYMBOL RIGHT ARROW)  DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)		P 36X24			24			PILOT CAR IN USE WAIT & FOLLOW WORK ZONE (PLAQUE)	6122020		REPLACEMENT SAND BARREL  IMPACT ATTENUATOR (RELOCATION)
WO1 - 4bR							DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 8a		3.00	-	24			END DETOUR	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
WO1 - 4cL							TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	MO4 - 9L	_	12.00					DETOUR (LEFT ARROW)	6161008	2	ADVANCED WARNING RAIL SYSTEM
WO1-4cR							TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 9R	_	12.00					DETOUR (RIGHT ARROW)	6161012		BUOYS (BOATS KEEP OUT)
WO1 - 6	60X30						HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	_	4.00					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	72X36	18.00					HORIZ ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4 - 10L	48X18						DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1 - 7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10F	48X18	6.00					DETOUR (ARROW RIGHT)	6161025	250	CHANNELIZER (TRIM LINE)
WO1 - 7a	72X36	18.00					DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		·		REGUL	ATORY	/ SIGN	IS		6161030	2	TYPE III MOVEABLE BARRICADE
WO1-8	18X24						CHEVRON (SYMBOL)	R1-1	_	13.25					STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a	30X36						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	_	6.93					YIELD	6161040	2	FLASHING ARROW PANEL
WO3 - 1	48X48						STOP AHEAD (SYMBOL)	R1-2a	_	9.00					TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3 - 2	48X48						YIELD AHEAD (SYMBOL)	R1-3P		2.50					ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3 - 3	48X48						SIGNAL AHEAD (SYMBOL)	R2-1	_	12.00	8	96			SPEED LIMIT 2-30, 2-35, 2-40, 2	<b>46</b> 161070		TUBULAR MARKER
WO3 - 4		16.00 3	5 560				BE PREPARED TO STOP	R3-1	_	16.00					NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3 - 5	48X48 48X48						SPEED LIMIT AHEAD	R3-2	_	16.00					NO LEFT TURN (SYMBOL)	6161006		CHANGEABLE MESSAGE SIGN,
WO4 - 1L WO4 - 1R	48X48 48X48						MERGE (SYMBOL FROM LEFT) MERGE (SYMBOL FROM RIGHT)	R3-3 R3-4		9 00					NO TURNS NO U-TURN (SYMBOL)	6161096		COMMISSION FURNISHED/RETAINED CHANGEABLE MESSAGE SIGN W/O COMM.
WO4-1R WO4-1aL							MERGE (ARROW SYMBOL)	R3 - 7L			2 1	12 5			LEFT LANE MUST TURN LEFT	6161098A		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4-1aL							MERGE (ARROW SYMBOL)	R3 - 7R		6.25	2 1				RIGHT LANE MUST TURN RIGHT	0101030A		CHANGEABLE MESSAGE SIGN WITH COMM.
WO5 - 1	48X48		16				ROAD/BRIDGE/RAMP NARROWS	R4 - 1	_	12.00		12.5			DO NOT PASS	6161099	2	INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5 - 3	48X48						ONE LANE BRIDGE	R4-2	_	12.00					PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5 - 5	48X48						NARROW LANES	R4-8a		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	2	24			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	_	6.00					WRONG WAY			TEMPORARY TRAFFIC BARRIER
WO7-3a	30X24						NEXT XX MILES (PLAQUE)	R6-1L		6.75					ONE WAY ARROW (LEFT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8 - 1	48X48						BUMP	R6-1R	_	6.75					ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 2	48X48						DIP	R6-2L		5.00					ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8 - 3	48X48						PAVEMENT ENDS	R6 - 2R		5.00					ONE WAY (RIGHT)	6176000		TEMPORARY TRAFFIC BARRIER
WO8 - 4	48X48 48X48						SOFT SHOULDER	R9-9	24X12	2.00					SIDEWALK CLOSED SIDEWALK CLOSED AHEAD,	6176000B		COMMISSION FURNISHED/RETAINED TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 5 WO8 - 6	48X48						SLIPPERY WHEN WET (SYMBOL) TRUCK CROSSING	R9-11L	24X18	3 00					(ARROW LEFT) CROSS HERE	6177000B		COMMISSION FURNISHED/RETAINED
WO8 - 6 c	48X48						TRUCK ENTRANCE	IK3-11E	24/10	3.00					SIDEWALK CLOSED AHEAD,	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8 - 7	36X36						LOOSE GRAVEL	R9-11R	24X18	3.00					(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS
	36X36						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	R11-2	48X30	10.00					ROAD CLOSED			
WO8 - 11	48X48	16.00	96				UNEVEN LANES								ROAD CLOSED XX MILES AHEAD			
WO8 - 12	48X48	16.00	64				NO CENTER LINE	R11-3a							LOCAL TRAFFIC ONLY			
WO8 - 15							GROOVED PAVEMENT	R11-4							ROAD CLOSED TO THRU TRAFFIC			
WO8 - 15P							MOTORCYCLE (PLAQUE)	CONST - 3							FINE SIGN			
WO8 - 17L							SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 3	3X 56X12		MALCOFI		-0116	TONG	SPEEDING/PASSING (PLATE)			
WO8 - 17R							SHOULDER DROP-OFF (SYMBOL RIGHT)	CONCT	1000		MISCEI	LLANE	:005		DOLNT OF BRECENCE			
WO8 - 17P W10 - 1							SHOULDER DROP-OFF (PLAQUE) RAILROAD CROSSING	CONST - 5	_	32.00	2	6.4			POINT OF PRESENCE			
W10-1 W012-1							DOUBLE DOWN ARROW (SYMBOL)		_	12.00					WORK ZONE NO PHONE ZONE			
WO12-1							LOW CLEARANCE (SYMBOL)	CONST-C	70/30	12.00		24			WORK ZONE NO THONE ZONE			
W012-2X							LOW CLEARANCE (PLAQUE)											
WO12-2a							OVERHEAD LOW CLEARANCE (FEET AND INCHES)											
WO12-4							LOW CLEARANCE XX FT XX IN XX MILES AHEAD											
WO12-5							WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD											
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)											
WO16-2	30X24	5.00					XXX FEET (PLAQUE)											
WO16-3							X MILE (PLAQUE)											
		16.00 4	1 656				ROAD/BRIDGE/RAMP WORK AHEAD											
WO20-2							DETOUR AHEAD	1	0 05			OTA						
WO20-3			<del>                                     </del>	+			ROAD CLOSED AHEAD	616-1		NI C 1 C1		OTAL						
		16.00 ·	_				ONE LANE ROAD AHEAD RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-1		ON SIGN	NO   2	2561	-	TOTAL				
WO20-5 WO20-5a			. 32	+			2 RIGHT/CENTER/LEFT LANE CLOSED AHEAD	RELOC		SIGNIC			}	0				
WO20-5a			3 48				RIGHT/CENTER/LEFT LANE CLOSED ANEAD	NELUC		7 1 0110								

RIGHT/CENTER/LEFT LANE CLOSED

TURN OFF 2-WAY RADIO AND PHONE

FLAGGER (SYMBOL)

SHOULDER WORK AHEAD

BLASTING ZONE AHEAD

END BLASTING ZONE

FRESH OIL

WO22-1 48X48 16.00

WO22-2 42X36 10.50 WO22-3 42X36 10.50

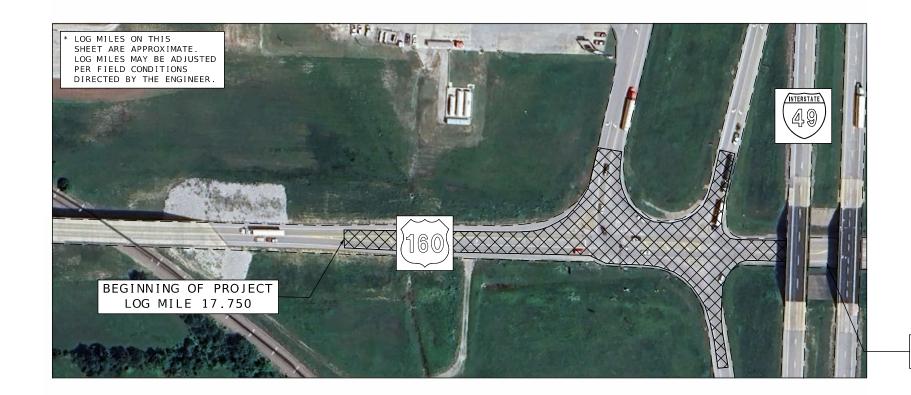
WO20-6a 48X48 16.00 3 48

WO20-7a 48X48 16.00 39 624

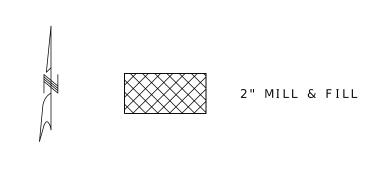
WO21-2 36X36 9.00 WO21-5 48X48 16.00 2 32

09/01/2024 8:34:55 PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 8/26/2024 160 MO SHEET NO. SW BARTON JOB NO.
JSR0163
CONTRACT ID. PROJECT NO.

# PROJECT BEGINNING AND END OF PROJECT



## BEGINNING OF PROJECT



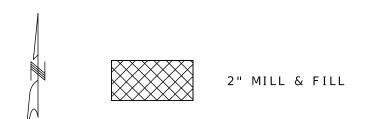
CONCRETE EXCEPTION LM 17.914-LM 17.995

NOT TO SCALE

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



## END OF PROJECT



NOT TO SCALE

SPECIAL SHEET SHEET 1 OF 2

CRAS MAN
SMIZER
NUMBER
PE-2003015045

09/01/2024 8:35:16/PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045

8/26/2024

ROUTE STATE
160 MO

DISTRICT SHEET NO.
SW 4

JOB NO.
JSR0163
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

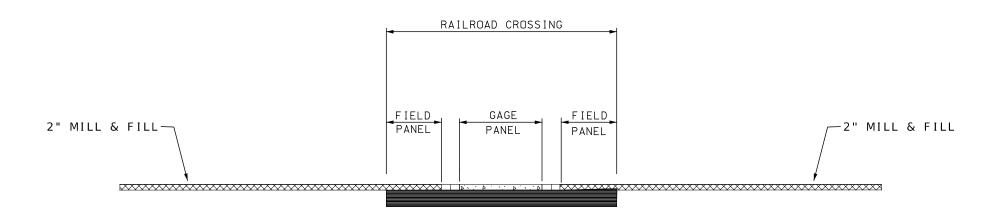
COMMISSION

COMMISSION

TO DOT

1-888-ASK-MODOT (1-888-275-6532)

# RAILROAD CROSSING DETAILS

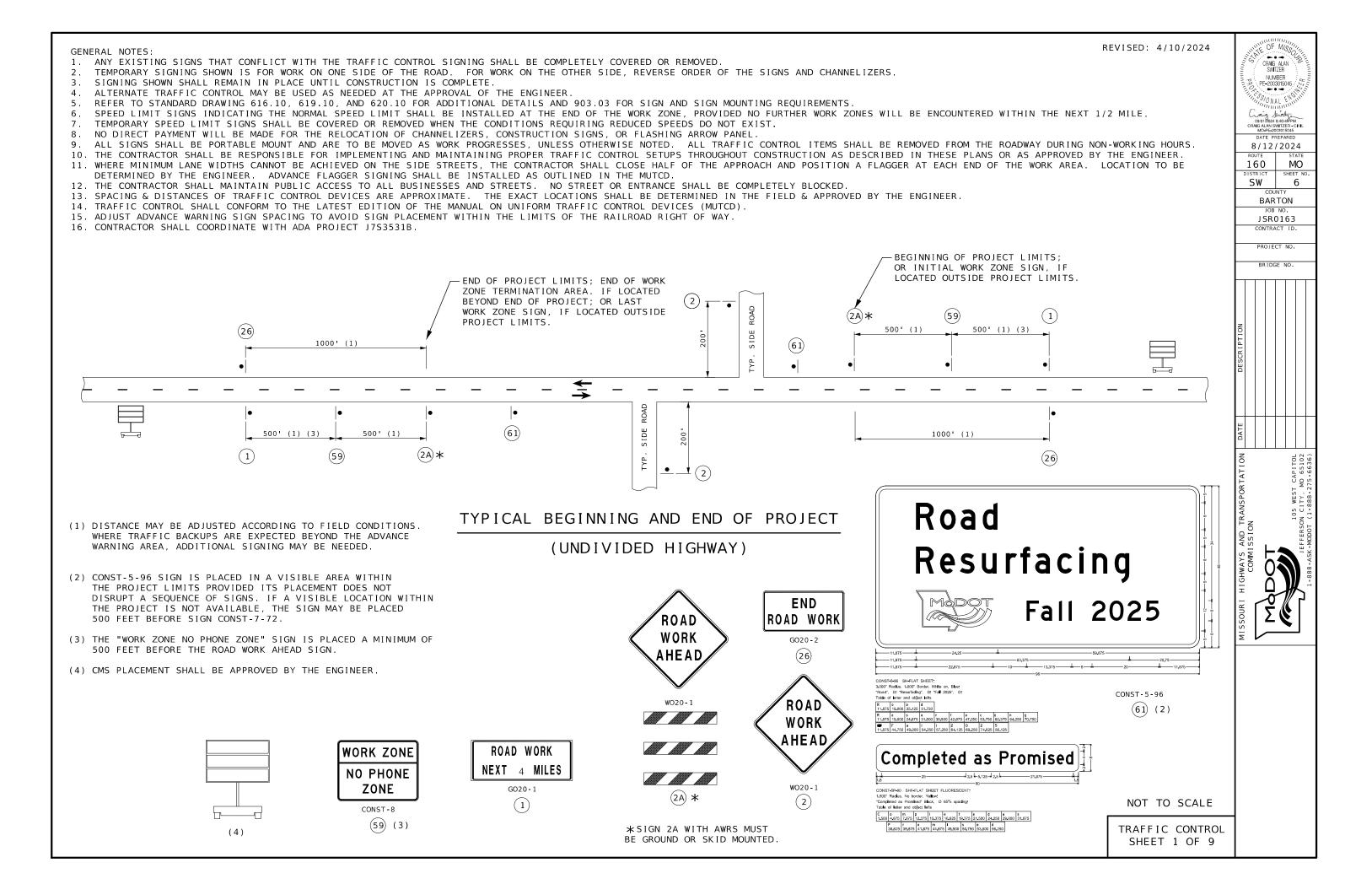


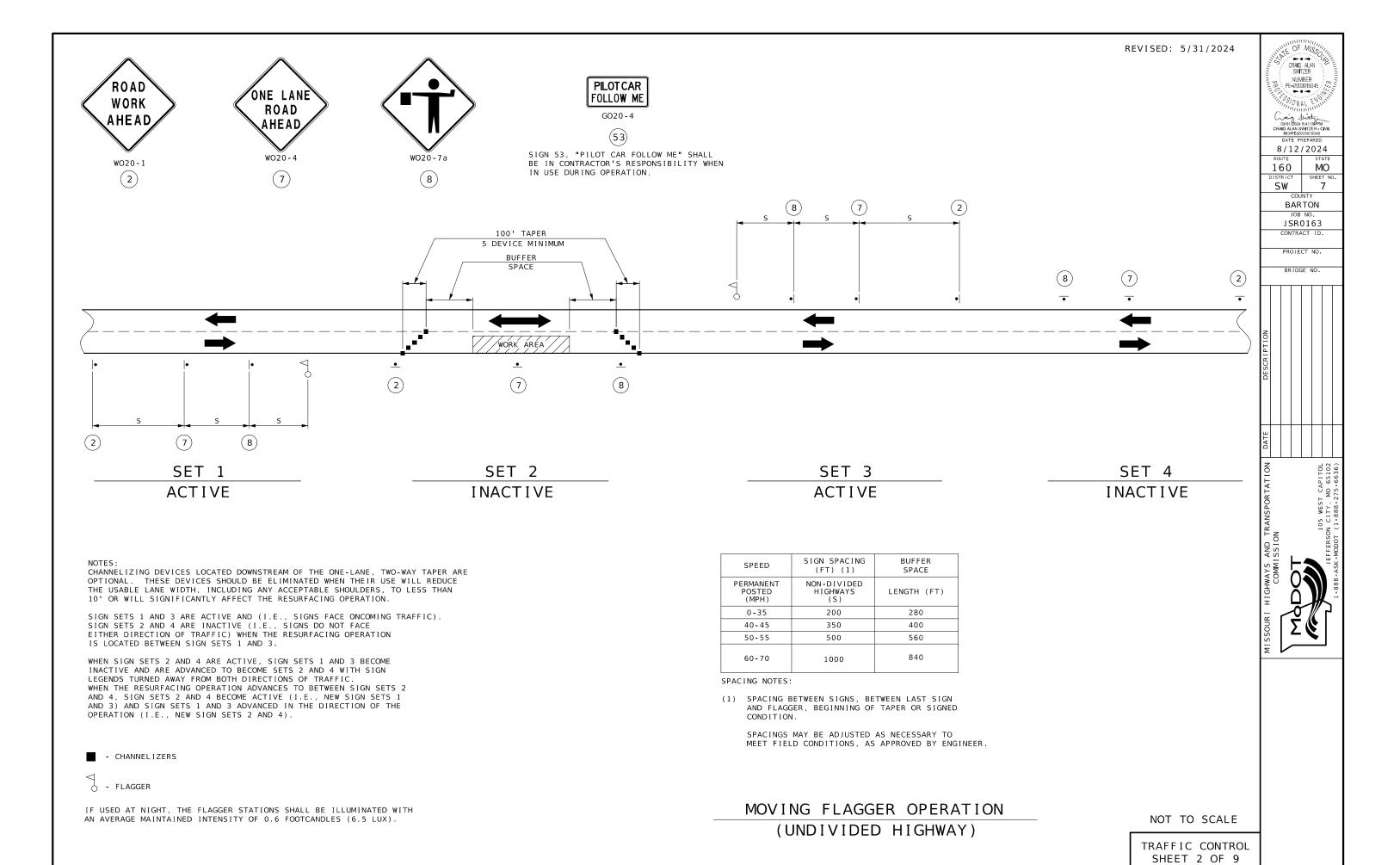
ROUTE 160 LOG MILES 19.535

TYPICAL RAILROAD CROSSING NOT TO SCALE



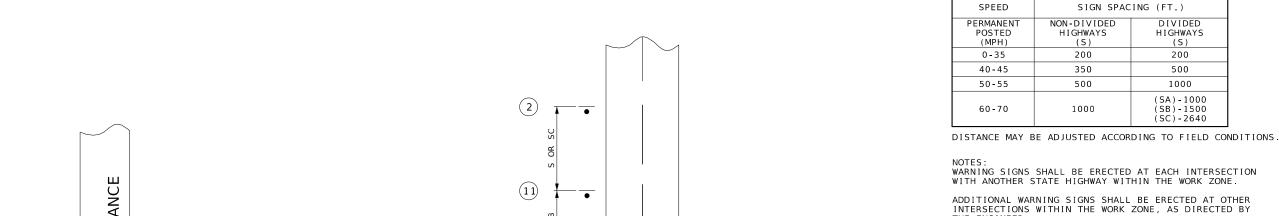
NOT TO SCALE
SPECIAL SHEET
SHEET 2 OF 2





#### REVISED: 5/31/2024

## SIDE ROADS ENTERING WORK ZONES



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

\* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, 24 X 18 (60)

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

PILOT CAR IN USE WAIT & FOLLOW

CRAIG ALAN SWITZER NUMBER PE-2003015045

09/01/2024 8:41:19 PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 DATE PREPARED

8/12/2024

BARTON

JSR0163 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MO

SHEET NO

8

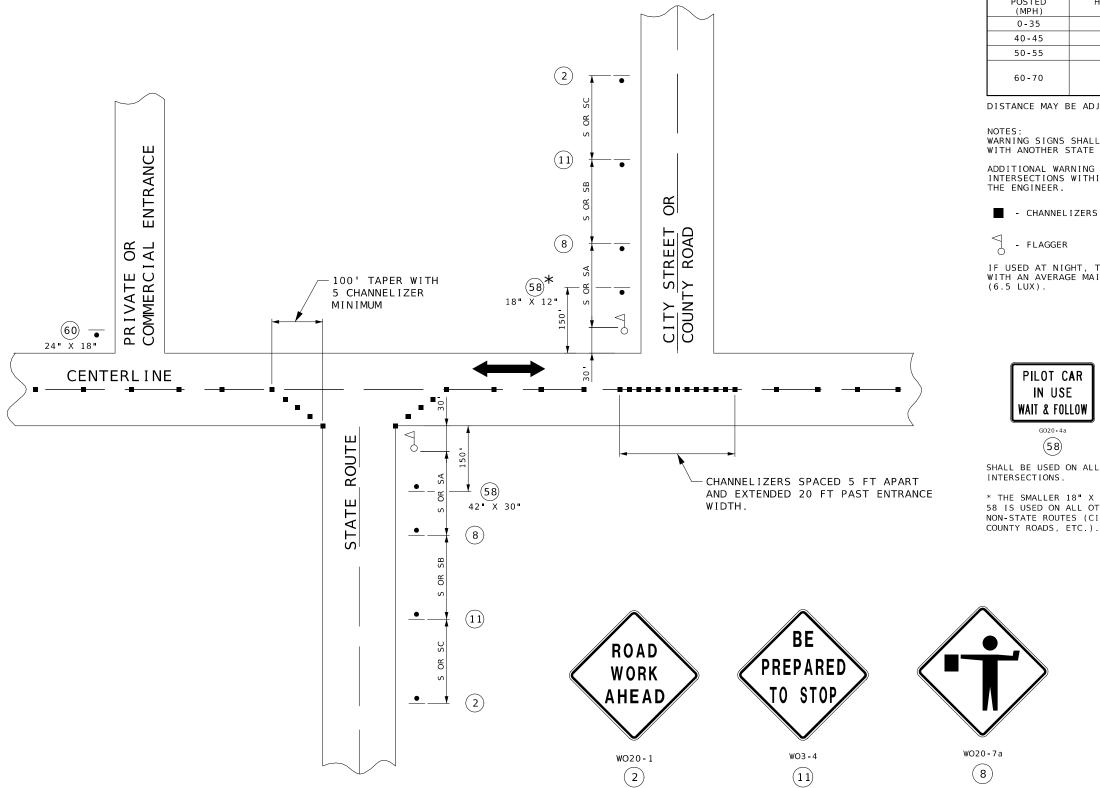
160

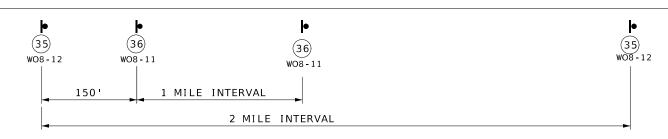
SW

PE-2000

NOT TO SCALE

TRAFFIC CONTROL SHEET 3 OF 9



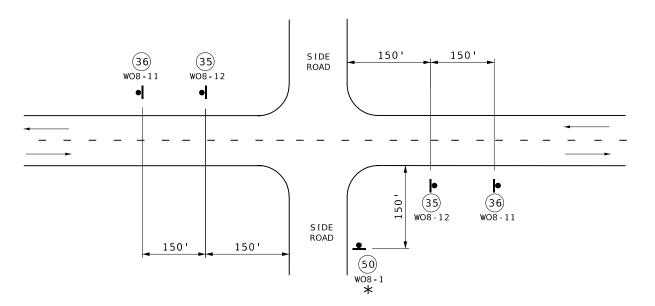


### SIGN SPACING FOR MAINLINE

35) WO8 - 12

(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 STATE ROUTE 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.

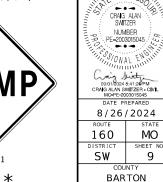
REVISED: 5/31/24



**CENTER** 

WO8 - 12

(35)



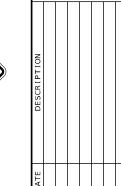
CONTRACT ID. PROJECT NO.

JSR0163

MO SHEET NO

9

BRIDGE NO.



UNEVEN LANES WO8 - 11 (36)

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 (5) AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.

NOT TO SCALE

TRAFFIC CONTROL SHEET 4 OF 9

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

#### NOTES:

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

PROTECTIVE TRUCKS 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, OSCILLATING, OR STROBE LIGHTS.

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.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
- (2) 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.
- (3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

NTRACTOR MAY PROVIDE ADDITIONAL R WARNING DEVICES.

09/01/2024 8:41:39 PM
CRAIG ALAN SWITZER - CIVIL
MO-PE-2003015045

DATE PREPARED

SONAL ENG

CRAIG ALAN SWITZER NUMBER PE-2003015045

8/12/2024

ROUTE STATE
160 MO

DISTRICT SHEET NO.
SW 10

BARTON JOB NO.

JSR0163 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE DESCRIPTION

ISSOUR! HIGHWAYS AND TRANSPORTATI
COMMISSION
TO TO TO THE TEFERSON CITY, NO 651

PAVEMENT MARKING **EQUIPMENT** FLASHING ARROW PANEL
- CAUTION MODE MIDDLE WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL AND REQUIRED TRUCK MOUNTED ATTENUATOR. (1) ONE LANE ROAD AHEAD WO20-4 WET PAINT WET PAINT REAR ADVANCE WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL AND G022-1(2) REQUIRED TRUCK MOUNTED ATTENUATOR. (3)

STRIPING ON TWO-LANE HIGHWAY

NOT TO SCALE

TRAFFIC CONTROL SHEET 5 OF 9

SPEED	SIGN SPACING (FT)		LENGTH T)	GTH OPTIONAL		NELIZER ING (FT)
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER(1)	LANE(2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	70	245	280	35	40
40 - 45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

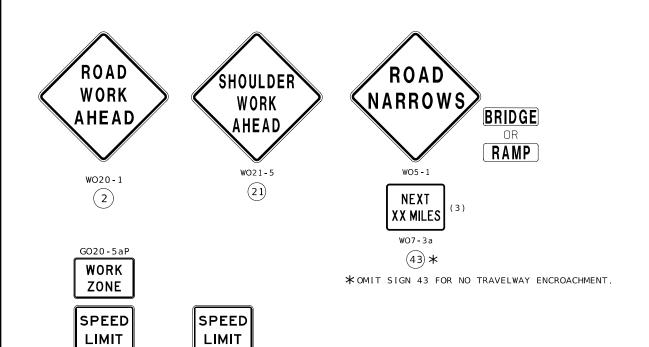
#### NOTES:

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET. (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

(25)

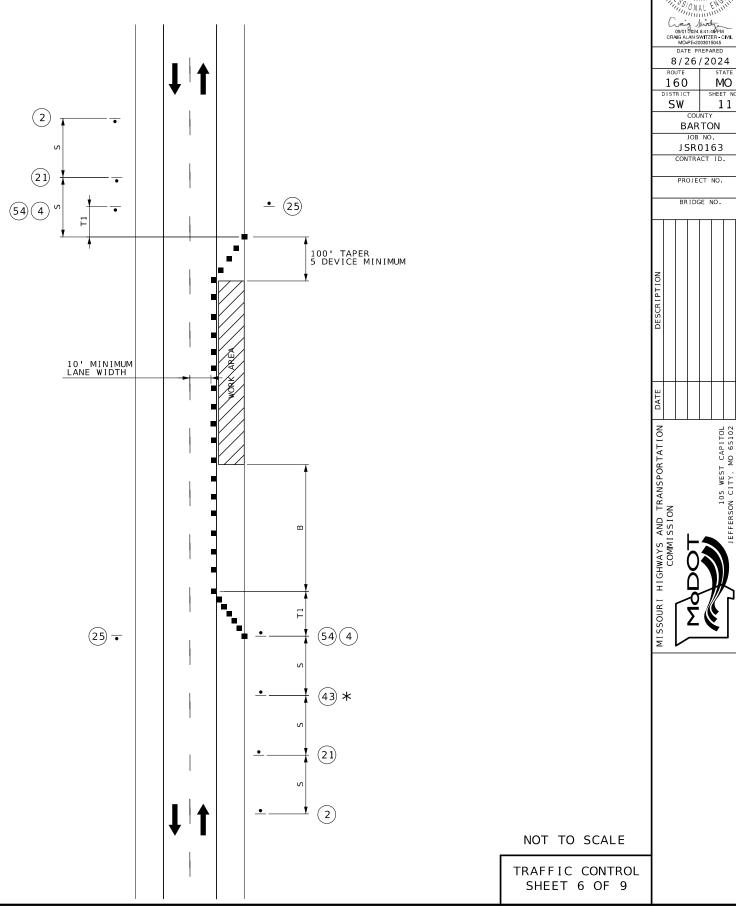
(NORMAL SPEED)

(3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



## SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT OR NO ENCROACHMENT

(UNDIVIDED HIGHWAY)



REVISED: 1/9/2024

REVISED: 11/7/2023

BUFFER/

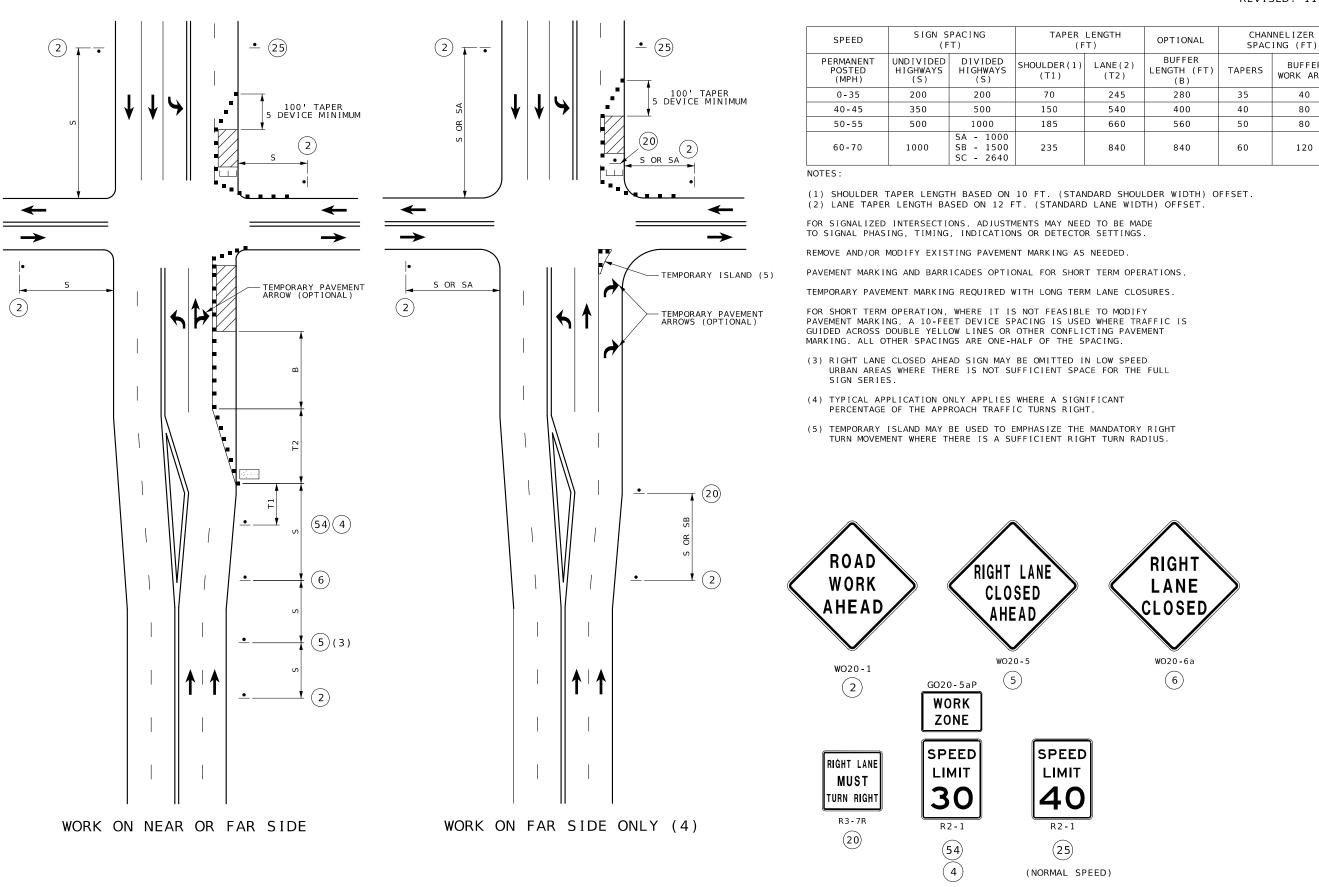
WORK AREAS

40

80

80

120



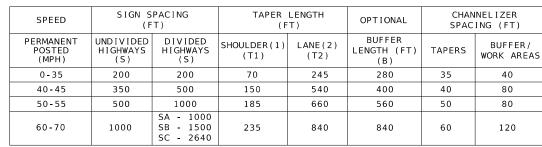
RIGHT LANE CLOSURE AT INTERSECTION

CRAIG ALAN SWITZER 09/01/2024 8:42:06/PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 8/26/2024 160 MO  $\mathsf{SW}$ 12 BARTON JSR0163 CONTRACT ID. PROJECT NO. BRIDGE NO.

NOT TO SCALE

TRAFFIC CONTROL SHEET 7 OF 9

REVISED: 4/28/2023



#### NOTES:

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
- (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

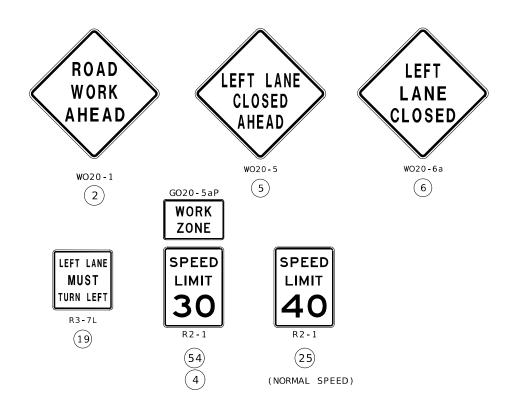
REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE-HALF OF THE SPACING.

- (3) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.
- (4) FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHENMEDIAN WIDTH ALLOWS THIS PLACEMENT.



LEFT LANE CLOSURE AT INTERSECTION

(54)(4)

(5)(3)

WORK ON NEAR OR FAR SIDE

2

(2)

TEMPORARY PAVEMENT ARROW (OPTIONAL)

TEMPORARY YELLOW LINE • (25)

100' TAPER

TEMPORARY WHITE LINE

(19)

(54)(4)

(6)

(5)(3)

WORK ON FAR SIDE ONLY

DEVICE MINIMUM

<u>•</u> (25)

100' TAPER

DEVICE MINIMUM

2

(2)

TEMPORARY WHITE LINE

TEMPORARY PAVEMENT ARROW (OPTIONAL)

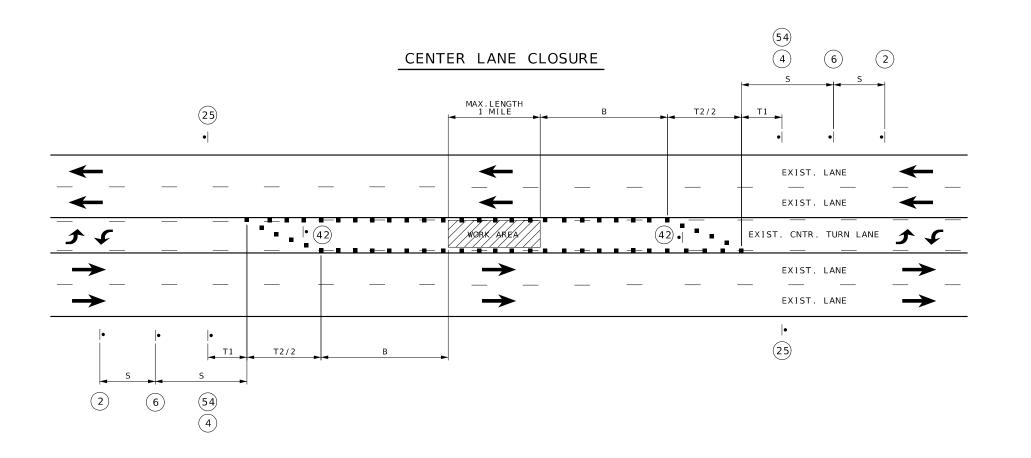
TEMPORARY YELLOW LINE

NOT TO SCALE

TRAFFIC CONTROL SHEET 8 OF 9

CRAIG ALAN SWITZER SONAL ENG 09/01/2024 8:42:18/PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 8/26/2024 160 MO SW 13 BARTON JSR0163 CONTRACT ID. PROJECT NO. BRIDGE NO.

REVISED: 1/9/2024



SPEED	SIGN SPACING (FT)		LENGTH T)	OPTIONAL	CHANNELIZER SPACING (FT)		
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER(1) (T1)	LANE(2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS	
0-35	200	70	245	280	35	40	
40-45	350	150	540	400	40	80	
50-55	500	185	660	560	50	80	
60-70	1000	235	840	840	60	120	

#### NOTES

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
- (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS, QUANTITY OF CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAXIMUM CHANNELIZER SPACING IN CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURE, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CHANNELIZERS, SIGNS, AND FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING IS ONE-HALF SPACING SHOWN IN TABLE.

SPEED LIMIT SIGNS INDICATING NORMAL SPEED LIMIT SHALL BE INSTALLED AT END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", "NO PHONE ZONE", AND "POINT OF PRESENCE", 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. SEE JOB SPECIAL PROVISIONS

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.









WORK ZONE

**SPEED** 

LIMIT



(NORMAL SPEED)

NOT TO SCALE

TRAFFIC CONTROL SHEET 9 OF 9

CRAIG ALAN SWITZER NUMBER PE-2003015045 09/01/2024 8:42:29 PM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 8/26/2024 160 MO SHEET NO  $\mathsf{SW}$ 14 BARTON JSR0163 CONTRACT ID. PROJECT NO. BRIDGE NO.

#### DESIGN DESIGNATION

A.A.D.T. - 2023 = 2801 A.A.D.T. - 2033 = 2989 D.H.V. = 13.25%

V = 25-55 M.P.H.

D = 50.4%

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

#### NO NEW R/W REOUIRED

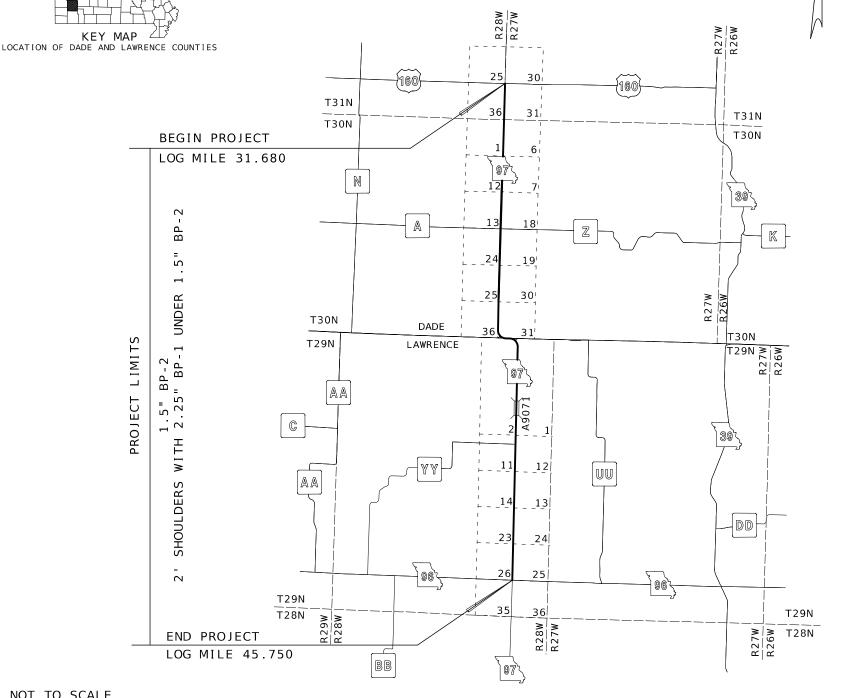
#### CONVENTIONAL SYMBOLS (USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	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 -	- F0 - OTV - UTV - OE - UE - S - S - G - W
MANHOLE	HYD	)
FIRE HYDRANT	w C	]
WATER VALVE	wn C	)
WATER METER	E	)
DROP INLET		
DITCH BLOCK	=	<b>=</b>
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED △  — ∨ — ×	
BENCHMARK	BM (X	)
***	∨	,

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY DADE, LAWRENCE COUNTIES



#### NOT TO SCALE

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

### INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (7 SHEETS)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4 - 6
TRAFFIC CONTROL SHEETS (TC)	7 - 11

ORAGO CRAIG ALANS ORAGA ALANS CRAIG ALANS	ZER BER 3015045  L E ONIL
	REPARED  / 2024
ROUTE	STATE
97	MO
DISTRICT	SHEET NO.
SW	1
COU	NTY
DADE, L	AWRENCE
JOB	NO.
JSRO	1164

CONTRACT ID.

PROJECT NO



### LENGTH OF PROJECT

BEGINNING OF PROJECT LOG MILE SB 31.680 END OF PROJECT LOG MILE SB 45.750

APPARENT LENGTH 74,289.60 FEET EQUATIONS AND EXCEPTIONS:

BRIDGE A9071 LM 40.937-LM 40.997 316.80 FEET



TOTAL CORRECTIONS 316.80 FEET NET LENGTH OF PROJECT 73,972.80 FEET STATE LENGTH 14.010 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES 2 ACRES NOTES: LANE WIDTH NOTED IS TYPICAL LANE WIDTH.
ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

SURFACE PLACEMENT - ONE PASS PER LANE

NO S E CORRECTION

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.

REVISED: 3/7/2023

ASPHALT FACTORS

COMBINED FACTOR % AC

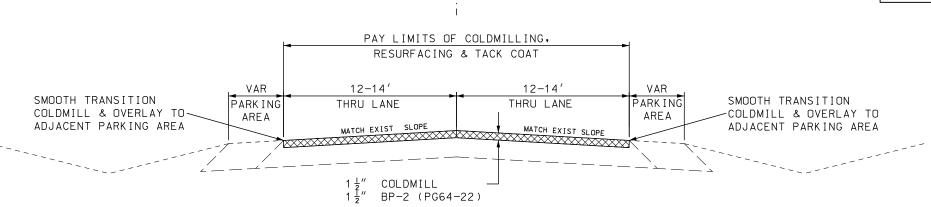
BP-1 (PG64-22) 1.960 TONS/CY 5.6

BP-2 (PG64-22) 1.975 TONS/CY 5.5

TACK COAT

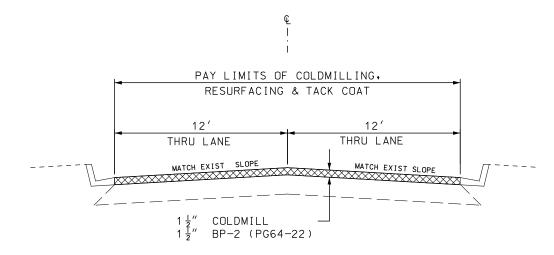
OVERLAY 0.08 GAL/SY MILLING 0.10 GAL/SY

IRREGULARITIES: 75 TONS/MI



### ROUTE 97

LOG MILE 31.680 TO LOG MILE 32.110



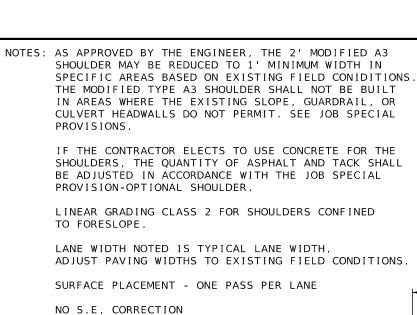
### ROUTE 97

LOG MILE 32.110 TO LOG MILE 32.213

NOT TO SCALE

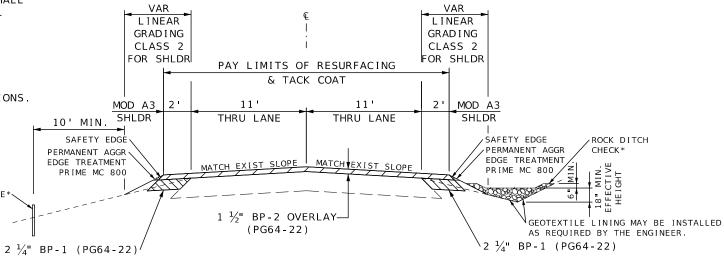
TYPICAL SECTIONS
SHEET 1 OF 7

CRAIG ALAN SWITZER NUMBER PE-2003015045 8/27/2024 97 MO SHEET NO SW 2 DADE, LAWRENCE JSR0164 CONTRACT ID. PROJECT NO. BRIDGE NO.



SILT FENCE\*

SILT FENCE\*



COMBINED FACTOR BP-1 (PG64-22) 1.960 TONS/CY 5.6 BP-2 (PG64-22) 1.975 TONS/CY 5.5 TACK COAT OVERLAY 0.08 GAL/SY MILLING 0.10 GAL/SY PERMANENT AGGREGATE EDGE TREATMENT AGGREGATE 200 TON/MILE PRIME MC 800 590 GAL/MILE IRREGULARITIES: 75 TONS/MI

EXEMPT OUT BRIDGE A9071

LOG MILE 40.937 - LOG MILE 40.997

ASPHALT FACTORS

REVISED: 3/7/2023

CRAIG ALAN SWITZER

NUMBER

8/27/2024

DADE, LAWRENC

JSR0164

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MO

SHEET NO

2

97

 $\mathsf{SW}$ 

LINEAR **GRADING** CLASS 2 FOR SHLDR 2', MOD A3 SHLDR SAFETY EDGE PERMANENT AGGR MATCH EXIST SLOPE EDGE TREATMENT PRIME MC 800 PCC OR RCC

CONCRETE SHOULDERS

### ROUTE 97 LOG MILE 32.213 TO LOG MILE 40.937 LOG MILE 40.997 TO LOG MILE 41.999 LOG MILE 42.735 TO LOG MILE 43.292 LOG MILE 43.733 TO LOG MILE 45.605

MOD A3

SHLDR

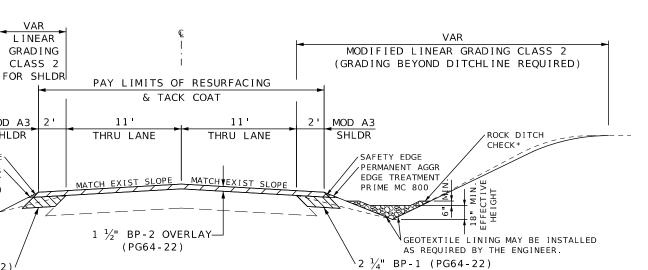
10 MIN

SAFETY EDGE

PERMANENT AGGR

EDGE TREATMENT

 $2\frac{1}{4}$ " BP-1 (PG64-22)



ROUTE 97 LOG MILE 41.999 TO LOG MILE 42.735 LOG MILE 43,292 TO LOG MILE 43,733

NOT TO SCALE

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

TYPICAL SECTIONS SHEET 2 OF 7

NOTES: AS APPROVED BY THE ENGINEER, THE 2' MODIFIED A3 SHOULDER MAY BE REDUCED TO 1' MINIMUM WIDTH IN SPECIFIC AREAS BASED ON EXISTING FIELD CONIDITIONS. THE MODIFIED TYPE A3 SHOULDER SHALL NOT BE BUILT IN AREAS WHERE THE EXISTING SLOPE, GUARDRAIL, OR CULVERT HEADWALLS DO NOT PERMIT. SEE JOB SPECIAL PROVISIONS.

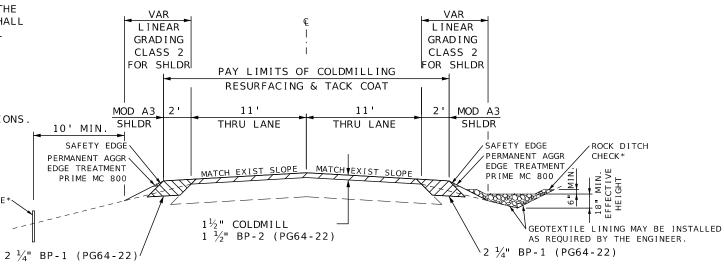
IF THE CONTRACTOR ELECTS TO USE CONCRETE FOR THE SHOULDERS, THE QUANTITY OF ASPHALT AND TACK SHALL BE ADJUSTED IN ACCORDANCE WITH THE JOB SPECIAL PROVISION-OPTIONAL SHOULDER.

LINEAR GRADING CLASS 2 FOR SHOULDERS CONFINED TO FORESLOPE.

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

SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION



ROUTE 97

LOG MILE 45.605 TO LOG MILE 45.750

OMIT MILLING OF 11'X30' TRANSVERSE RUMBLE STRIP CONCRETE PANELS

SHOULDER

NEW SURFACE

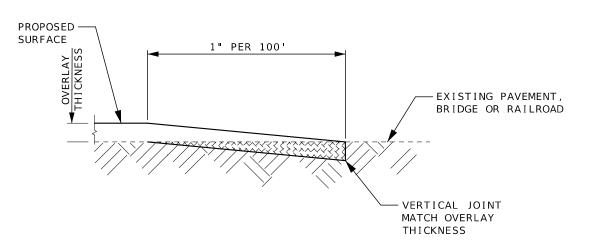
EXISTING
PAVEMENT

A

MODIFIED COLDMILLING
DEPTH TRANSITION

SILT FENCE\*

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.

TYPICAL SECTIONS
SHEET 3 OF 7

OF MOSON
OF

REVISED: 3/7/2023

5.6

5.5

0.08 GAL/SY

0.10 GAL/SY

200 TON/MILE

590 GAL/MILE

ASPHALT FACTORS

TACK COAT

PERMANENT AGGREGATE EDGE TREATMENT

IRREGULARITIES: 75 TONS/MI

BP-1 (PG64-22) 1.960 TONS/CY

BP-2 (PG64-22) 1.975 TONS/CY

OVERLAY

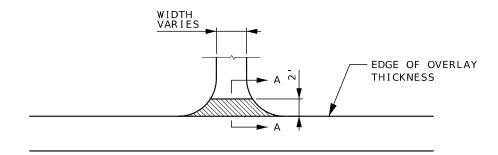
MILLING

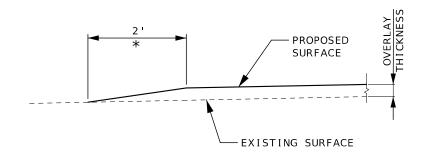
AGGREGATE

PRIME MC 800

COMBINED FACTOR

REVISED: 3/7/2023



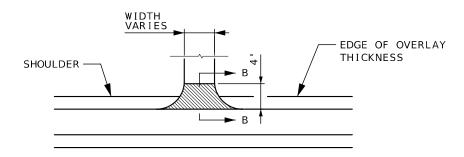


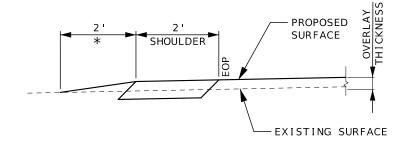
SECTION A-A

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

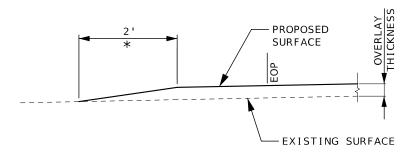
NOTE: 4 TONS GRAVEL A OR CRUSHED STONE CALCULATED PER ENTRANCE.

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.

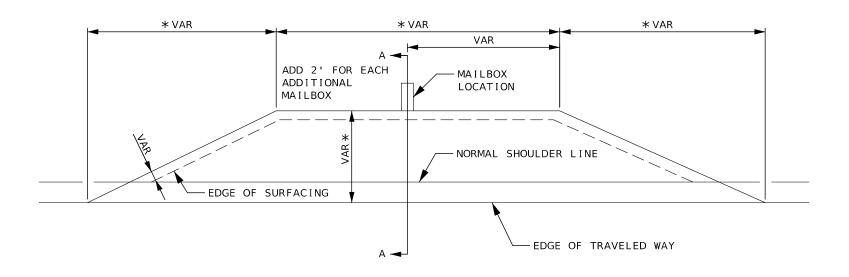
GHWAYS AND TRANSPORTATION	DATE	DESCRIPTION				D/				HIIIIIIIII.	,
COMMISSION						S 4D	9 01ST	8	CRA	PROMINI	111
			BR		JS	W	7 RIC	DAT ] / ] UTE	09/06 AIG AI MO-	PE	IIII ATE
- -			IDO	TR <i>A</i>	јов SR(		т		2024 AN S		•
			E 1		ои О 1	INTY	5	REP# / 2	7:32: WITZ 00301	TZER MBER 3015	M/
105 WEST CAPITOL			١٥.		64			02	29 AM ER • 0 5045		
JEFFERSON CITY, MO 65102				•		2 = Ni	Ю	<b>4</b>	I	111WEER	
-888-ASK-MODOT (1-888-275-6636)						CF.	).			WHITHINW.	

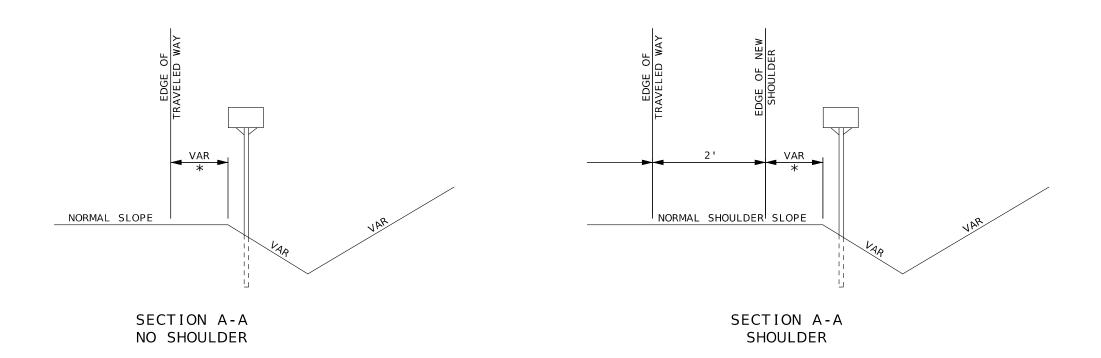
REVISED: 3/7/2023

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 5 OF 7

OF MISSON
CRAIG ALAN
SMIZER
NUMBER
PE-2003015045
DATE PREPARED
8/12/2024
ROUTE STATE
97 MO
DISTRICT SHEET NO.
SW 2
COUNTY
DADE, LAWRENCE
JOB NO.
JSR0164
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

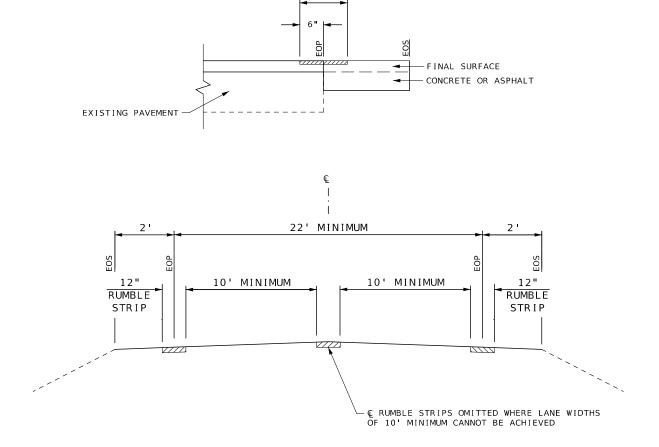
SOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
105 WEST CAPITOL
105 WEST CAPITOL
106 WEST CAPITOL
107 WEST CAPITOL

REVISED: 3/7/2023

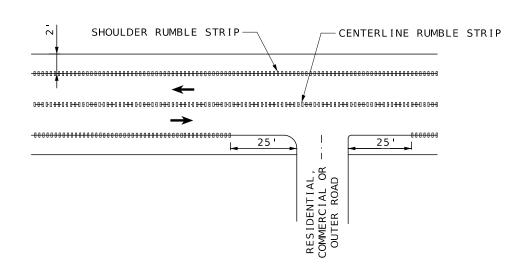
## RUMBLE STRIPS FOR 2' MODIFIED A3 SHOULDERS

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



OF MISSON
CRAIG ALAN
SMITZER
NUMBER
PE-2003015045

CRAIG ALAN SWITZER - CIVI MO-PE-2003015045 DATE PREPARED

8/12/2024

ROUTE STATE
97 MO

DISTRICT SHEET NO
SW 2

DADE, LAWRENC JOB NO. JSR0164

CONTRACT ID.

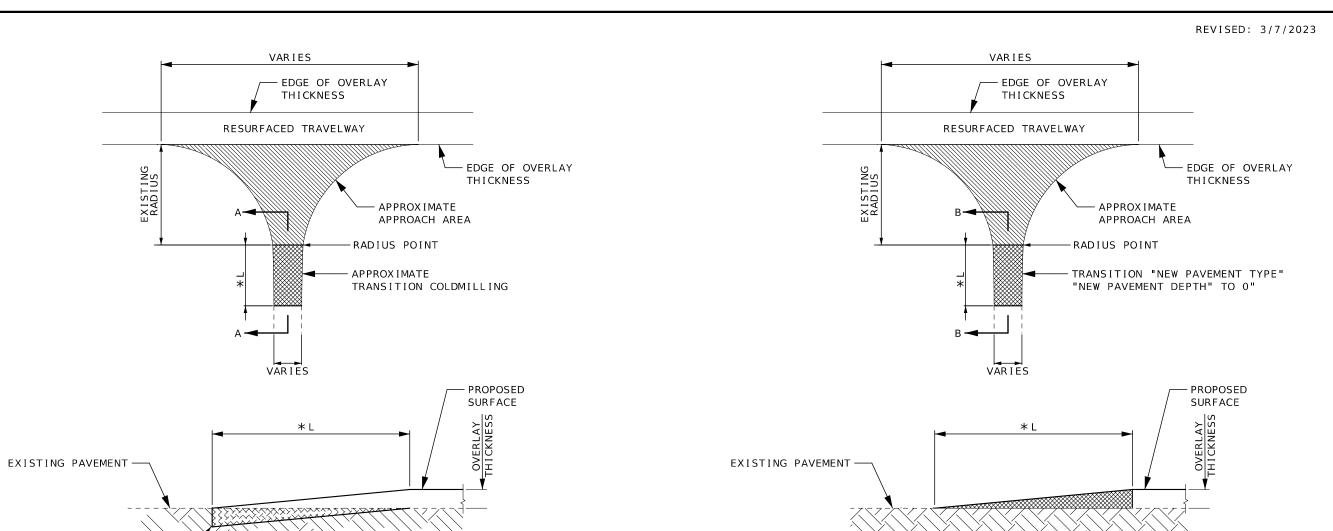
PROJECT NO.

NO

ON DATE DESCRIPTION

ISSOURI HIGHWAYS AND TRANSPORTATI
COMMISSION
TO THE TO THE TRANSPORTATION
TO THE TRANSPO

TYPICAL SECTIONS
SHEET 6 OF 7



### SECTION A-A

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

\*TRANSITION LENGTHS

VERTICAL JOINT MATCH OVERLAY THICKNESS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1"	20.0'
1 1/4"	30.0'
1 ½"	40.0'
1 3/4"	50.0'

### SECTION B-B

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

\*TRANSITION LENGTHS

* IKANSITION LE	NGIDS
OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1 "	20.0'
1 1/4"	30.0'
1 ½"	40.0'
1 3/4"	50.0'

8/12/2024 97 MO SW 2 DADE, LAWRENCE JOB NO.
JSR0164 CONTRACT ID. PROJECT NO. BRIDGE NO.

CRAIG ALAN SWITZER NUMBER PE-2003015045

TYPICAL SECTIONS
SHEET 7 OF 7

		C	OLDMIL	LING I	BITUMIN	IOUS PA	AVEMENT FOR REMOVAL OF SURFACE (3 IN. THICK OR LESS)
				NET	AVERAGE		
	LOG		LOG	LENGTH	WIDTH	AREA	
ROUTE	MILE	то	MILE	LF	LF	SY	REMARKS
97	31.680	-	31.863	966.2	24.0	2576.5	
97	31.865	-	32.110	1293.6	24.0	3449.6	
97	32.110	-	32.213	543.8	24.0	1450.1	
97	45.605	-	45.750	765.6	VAR	1812.0	COLDMILL TRANSVERSE RUMBLES TO END OF PROJECT
97	45.605	-	45.670				MILL AROUND EXIST TRANSVERSE RUMBLE STRIPS AND UIP 30'X11' CONCRETE PANELS
					TOTAL	9288.2	
					USE	9289	

REMARKS

A9071 BRIDGE TRANSITION

A9071 BRIDGE TRANSITION

TO TRANSVERSE RUMBLES

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LF

VAR

SY

103.0 TOTAL 1569.8 USE 1570

22.0 366.7

22.0 366.7 22.0 366.7

NET AVERAGE LENGTH WIDTH AREA

LF

LOG

MILE

40.997

ROUTE

LOG

MILE

97 40.909 - 40.937 150.0 22.0 366.7

- 41.025 150.0

ТО

97 32 213 32 241 150 0

97 45.577 - 45.605 150.0

NN 8.472 - 8.480 40.0

GRAVEL	(A)	OR	CRUSHED	STONE	(B)
		25	0 TONS		

MOBILIZATION 1 LUMP SUM

CONTRACTOR	FURNISHED	SURVEYI	NG &	STAKING
	1 LUN	1P SUM		

			OJE		NO.		
		BR	IDC	SE N	10.		
DESCRIPTION							
DATE							
AND TRANSPORTATION	SSION				105 WEST CAPITOL	FERSON CITY, MO 65102	

O9-06/24 7-33-16 AM
CRAIG ALAN SWITZER - CMIL
MO-PE-2003015045

DATE PREPARED
9/5/2024

DADE, LAWRENCE

JOB NO.
JSR0164
CONTRACT ID.

MO SHEET NO.

3

97

 $\mathsf{SW}$ 

						B I TUM	IINOUS PAVEMENT	- ROADWAY	
				NET	AVERAGE	APPROACH	ROADWAY		
	LOG		LOG	LENGTH	WIDTH	AREA	1.5" BP-2	TACK	
ROUTE	MILE	то	MILE	LF	LF	SF	TONS	GAL	REMARKS
97	31.680		31.863	966.2	24.0		212.0	257.7	
97	31.865	- 1	32.213	1837.4	24.0		403.2	490.0	
97	32.213	-	32.353	739.2	22.0		151.7	144.6	*
97	32.353	-	40.937	45323.5	22.0		9299.5	8863.3	*
97	40.997	-	45.750	25095.8	22.0		5149.2	4907.6	*
Α	8.025	-	8.049	126.7	VAR	5949.0	54.4	52.9	
Z	0.004	-	0.028	126.7	VAR	5211.0	47.6	46.3	
NN	8.481	-	8.495	73.9	VAR	4779.0	43.7	42.5	
NN	8.934	-	8.958	126.7	VAR	6354.0	58.1	56.5	
YY	0.005	-	0.029	126.7	VAR	3938.4	36.0	35.0	
ENTRANCES	AND IRRE	GUL	ARITIES						
97	31.680	-	45.750	74289.6			1055.3		IRREGULARITIES 75 TONS/MILE
97	31.680	-	45.750			256745.7	2394.5	2282.2	ENTRANCES AND MAILBOXES
						TOTALS	18905.2	17178.6	* SAFETY EDGE INCLUDED IN QUANTITY
						USE	18905.2	17179	
NOTE: ANY A	ND ALL IRRI	EGUL <i>A</i>	ARITIES MA	BE UNDERRI	JN AND NO A	DJUSTMENT T	O ANY UNIT BID COST WIL	L BE MADE.	

														- 1 76
							E	BITUMINOUS PAVEMENT -	SHOULDERS					IΨ
				NET	AVERAGE	SHOULDERS	SHOULDERS	LINEAR GRADING	MODIFIED LINEAR	CENTER	SHOULDER			11
	LOG		LOG	LENGTH	WIDTH	2 25" BP-1	1.5" BP-2	CLASS 2 FOR SHOULDERS	GRADING, CLASS 2	RUMBLES	RUMBLES	TACK		Ш
ROUTE	MILE	то	MILE	LF	LF	TONS	TONS	100 FT	100 FT	STA	STA	GAL	REMARKS	Ш
97	32.213	-	32.673	2428.8	4.0	134.88	90.61	48.6				86.4	*	11
97	32.673	-	40.937	43633.9	4.0	2423.14	1627.79	872.7		436.3	872.7	1551.4	*/BEGIN RUMBLE STRIPS SOUTH OF DADE 142	11
97	40.997	-	41.999	5290.6	4.0	293.80	197.37	105.8		52.9	105.8	188.1	*	11
97	41.999		42.735	3886.1	4.0	215.81	144.97		77.7	38.9	77.7	138.2	*	]
97	42.735		43.292	2941.0	4.0	163.32	109.72	58.8		29.4	58.8	104.6	*	]
97	43.292		43.733	2328.5	4.0	129.31	86.87		46.6	23.3	46.6	82.8	*	]
97	43.733		45.750	10649.8	4.0	591.42	397.30	213.0		106.5	213.0	378.7	*	]
														11
					TOTALS	3951.68	2654.63	1298.9	124.3	687.3	1374.6	2530.2	* SAFETY EDGE INCLUDED IN QUANTITY	]
					USE	3951.7	2654.7	1299	124	687	1375	2531		11

SUMMARY OF QUANTITIES SHEET 1 OF 3

						PAVEMEN	IT MARKI	NG			
					STANDARD WA	ΓERBORNE, Τ	YPE P BEADS	PREFORM	IED THERMOPLA	STIC MARKING	
				l	4" SOLID	4" INT	4" SOLID	24"	RAILROAD	30"	
					WHITE	YELLOW	YELLOW	WHITE	CROSSING	MIDBLOCK	
ROUTE	LOG MILE	$ T_{\Omega} $	LOG MILE	LOCATION	LF	LF	LF	LF	EA	EA	REMARKS
97	31.680		31.710	LOCATION			320.0	12		LA	REMARKS
97	31.710		31.815			140.0	320.0	12			
97	31.730	H	31.730			140.0				5	
97	31.815	H	31.919			140.0	550.0			3	
97	31.825		31.825			1,0.0	330.0		2		
97	31.859	H	31.875					24	_		
97	31.919	H	32.336			550.0					
97	32.336		35.550		33940.0	4240.0					
97	35.550		35.855		3220.0	400.0	1610.0				
97	35.855	$\Box$	36.375		5490.0	690.0					
97	36.375		36.496		1280.0	160.0	640.0				
97	36.496		36.555		620.0	80.0					
97	36.555		36.690		1430.0	180.0	710.0				
97	36.690		38.352		17550.0	2190.0					
97	38.352		38.492		1480.0	180.0	740.0				
97	38.492		39.275		8270.0		8270.0				
97	39.275		39.393		1250.0	160.0	620.0				
97	39.393		39.454		640.0		640.0				
97	39.454		39.512		610.0	80.0	310.0				
97	39.512		39.571		620.0	80.0					
97	39.571		39.693		1290.0	160.0	640.0				
97	39.693		39.790		1020.0	130.0					
97	39.790		39.995		2160.0	270.0	1080.0				
97	39.995		40.075		840.0		840.0				
97	40.075		40.252		1870.0	230.0	930.0				
97	40.252		40.635		4040.0	510.0					
97	40.635		40.815		1900.0	240.0	950.0				
97	40.815	$\sqcup \sqcup$	41.353		5680.0		5680.0				
97	41.353	$\sqcup$	41.554		2120.0	270.0	1060.0				
97	41.554	$\sqcup$	42.338		8280.0	1030.0					
97	42.338		42.517		1890.0	240.0	950.0				
97	42.517	$\sqcup$	42.817		3170.0		3170.0				
97	42.817	$\sqcup$	43.377		5910.0	740.0	2960.0				
97	43.377	$\vdash \vdash$	43.675		3150.0	390.0	2220 6				
97	43.675	$\vdash \vdash$	44.097		4460.0	560.0	2230.0				
97	44.097	$\vdash \vdash$	44.195		1030.0	130.0	250.0				
97	44.195	$\vdash \vdash$	44.358		1720.0	220.0	860.0				
97	44.358	$\vdash \vdash$	45.075		7570.0	400.0	7570.0				
97	45.075	$\vdash\vdash$	45.435		3800.0	480.0	1900.0	1 1			
97	45.435	Ш	45.750	TOTAL	3330.0	420.0	3330.0	11	2		
				TOTALS	141630	15290	48560	47	2	5	
				USE	141630	63	850	47	2	5	

				PERMA	NENT AGGREGATE ED	OGE TREATMENT	
					AGGREGATE	PRIME MC 800	
				LENGTH	200 TON/MILE*	590 GAL/MILE*	
ROUTE	LOG MILE	TO	LOG MILE	MILES	TON	GAL	REMARKS
97	32.213	-	40.937	8.724	1744.8	5147	
97	40.997	-	45.750	4.753	950.6	2804	
		•		TOTALS	2695.4	7951	*INCLUDES 2' WIDTH BOTH SIDES OF ROADWAY

TEMPORA	RY EROSION CONTRO	)L
ITEM	QUANT I TY	UNIT
ROCK DITCH CHECK	1120.0	LF
SILT FENCE	700.0	LF
SEDIMENT REMOVAL	119.0	CY
* PLACED AS DIRECTED BY THE	ENGINEER	

SEEDING AND MULCHING								
ITEM	QUANTITY	UNIT						
SEEDING	2.3	ACRE						
MULCHING	2.3	ACRE						
MULCHING	2.3	ACRE						



09/06/2024 7:33:39 AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045

8/27	/2024
ROUTE	STATE
97	МО
DISTRICT	SHEET NO
SW	3

COUNTY
DADE, LAWRENCE
JOB NO.
J SR 0 164
CONTRACT ID.

PROJECT NO.

DESCRIPTION

ISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
TO TELEFERSON CITY, MO 55102
IEFFERSON CITY, MO 55102

															EFFECTIVE: 07-01-2024
		Тота	QTY TOTAL SIGN	1		1				QTY TOTAL	SIGN				ETTECTIVE: 07 01 2024
	CIZE ADEA		RELOCIRELOC NUM.			c 1	175 405			RELOCRELOC					
	1 1	1 - 1		·	6.60			1 -			NOIM.				
SIGN	IN SQ FT		EACH SQ.FT.	4	SIGN	I	IN. SQ.I			EACH SQ.FT.				TOTAL	
		WARNING S	IGNS	DESCRIPTION					DE SIGN	IS		DESCRIPTION	NUMBER	QTY	DESCRIPTION
	48X48 16.00			TURN (SYMBOL LEFT ARROW)	E05-1	_	X48 12.					GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
	48X48 16.00			TURN (SYMBOL RIGHT ARROW)	E05-2	_	3X36 12.					EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L	48X48 16.00			CURVE (SYMBOL LEFT ARROW)	E05-2a	-	X36 12.					EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1 - 2R				CURVE (SYMBOL RIGHT ARROW)	GO20-1	-	X24 10.		20			ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1 - 3L	48X48 16.00			REVERSE TURN (SYMBOL LEFT ARROW)	GO20-2	_	3X24 8.0		16			END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1 - 3R	48X48 16.00			REVERSE TURN (SYMBOL RIGHT ARROW)		-	X18 4 5		9			PILOT CAR FOLLOW ME PILOT CAR IN USE WAIT & FOLLOW	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1 - 4L	48X48 16.00 48X48 16.00			REVERSE CURVE (SYMBOL LEFT ARROW) REVERSE CURVE (SYMBOL RIGHT ARROW)		-	2X30 8.7 3X12 1.5		70			PILOT CAR IN USE WAIT & FOLLOW	6122019 6122020		IMPACT ATTENUATOR 70 MPH (SAND BARRELS) REPLACEMENT SAND BARREL
WO1 - 4R	48X48 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)		_	X24 6.0		24			WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)
	R 48X48 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 8a	_	X18 3.0					END DETOUR	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
	48X48 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	MO4 - 9L	_	X36 12					DETOUR (LEFT ARROW)	6161008	2	ADVANCED WARNING RAIL SYSTEM
	R 48X48 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 9R	_	3X36 12.					DETOUR (RIGHT ARROW)	6161012	_	BUOYS (BOATS KEEP OUT)
WO1-6	60X30 12.50			HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	_	3X12 4.0					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	72X36 18.00			HORIZ ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4 - 10L	_	X18 6.0					DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1 - 7	60X30 12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		_	X18 6.0					DETOUR (ARROW RIGHT)	6161025	100	CHANNELIZER (TRIM LINE)
WO1-7a	72X36 18.00			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)			'	REGU	JLATORY	' SIGNS			6161030		TYPE III MOVEABLE BARRICADE
WO1-8	18X24 3.00			CHEVRON (SYMBOL)	R1-1	482	3X48 13.	25				STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a	30X36 7.50			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	481	TRI. 6.9	93				YIELD	6161040		FLASHING ARROW PANEL
WO3 - 1	48X48 16.00			STOP AHEAD (SYMBOL)	R1-2a	_	X36 9.0					TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3 - 2	48X48 16.00			YIELD AHEAD (SYMBOL)	R1-3P	_	X12 2.5					ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3 - 3	48X48 16.00			SIGNAL AHEAD (SYMBOL)	R2-1	_	X48 12.					SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3 - 4	48X48 16.00			BE PREPARED TO STOP	R3-1	_	3X48 16.					NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3 - 5	48X48 16.00			SPEED LIMIT AHEAD	R3-2	_	X48 16.					NO LEFT TURN (SYMBOL)	1		CHANGEABLE MESSAGE SIGN,
WO4 - 1L	48X48 16.00			MERGE (SYMBOL FROM LEFT)	R3-3	_	X36 9.0					NO TURNS	6161096		COMMISSION FURNISHED/RETAINED
WO4 - 1R	48X48 16.00			MERGE (SYMBOL FROM RIGHT)	R3-4	_	3X48 16.					NO U-TURN (SYMBOL)	61610004		CHANGEABLE MESSAGE SIGN W/O COMM.
WO4 - 1 a				MERGE (ARROW SYMBOL)	R3 - 7L	_	0X30 6.2					LEFT LANE MUST TURN LEFT	6161098A		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4 - 1 a	48X48 16.00 48X48 16.00			MERGE (ARROW SYMBOL) ROAD/BRIDGE/RAMP NARROWS	R3 - 7R R4 - 1	_	0X30 6.2 5X48 12.					RIGHT LANE MUST TURN RIGHT DO NOT PASS	6161099	,	CHANGEABLE MESSAGE SIGN WITH COMM.
WO5 - 3	48X48 16.00			ONE LANE BRIDGE	R4-1	_	5X48 12					PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5 - 5	48X48 16.00			NARROW LANES	R4-8a	_	X48 12					KEEP LEFT (HORIZONTAL ARROW)	6162002	1	TEMPORARY LONG-TERM RUMBLE STRIPS
WO6 - 1	48X48 16.00			DIVIDED HIGHWAY (SYMBOL)	R4 - 7a	_	X48 12					KEEP RIGHT (HORIZONTAL ARROW)	0102002		TEMPORARY TRAFFIC BARRIER
WO6 - 2	48X48 16.00			DIVIDED HIGHWAY END (SYMBOL)	R5 - 1	_	X30 6.2					DO NOT ENTER	61736000		CONTRACTOR FURNISHED/RETAINED
WO6 - 3	48X48 16.00			TWO WAY TRAFFIC (SYMBOL)	R5-1a	_	X24 6.0					WRONG WAY			TEMPORARY TRAFFIC BARRIER
WO7 - 3a	30X24 5.00			NEXT XX MILES (PLAQUE)	R6-1L	_	X18 6.7					ONE WAY ARROW (LEFT)	6173602E		CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8 - 1	48X48 16.00			BUMP	R6-1R	_	X18 6.7					ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 2	48X48 16.00			DIP	R6-2L	242	X30 5.0	00				ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8 - 3	48X48 16.00			PAVEMENT ENDS	R6-2R	242	X30 5.0	00				ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER
WO8 - 4	48X48 16.00			SOFT SHOULDER	R9-9	242	X12 2.0	00				SIDEWALK CLOSED	6176000E		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	R9-11L	242	X18 3.0	00				(ARROW LEFT) CROSS HERE	6177000E		COMMISSION FURNISHED/RETAINED
WO8 - 6 c	48X48 16.00			TRUCK ENTRANCE								SIDEWALK CLOSED AHEAD,	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8 - 7	36X36 9.00			LOOSE GRAVEL	R9-11R	_	X18 3.0					(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS
WO8 - 7a				FRESH OIL/LOOSE GRAVEL	R10-6		IX36 6.0					STOP HERE ON RED (45^ ARROW)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
	48X48 16.00			LOW SHOULDER	R11-2	487	3X30 10.	00				ROAD CLOSED			
	48X48 16.00			UNEVEN LANES		60	V20 12	E 0				ROAD CLOSED XX MILES AHEAD			
	48X48 16.00 48X48 16.00			NO CENTER LINE GROOVED PAVEMENT		_	)X30 12. )X30 12.					ROAD CLOSED TO THRU TRAFFIC	<u> </u>		JAN SAME
	30X24 5.00			MOTORCYCLE (PLAQUE)			0X48 20.					FINE SIGN		-	
	48X48 16.00			SHOULDER DROP-OFF (SYMBOL LEFT)			5X12 4 6					SPEEDING/PASSING (PLATE)			
	R 30X24 5.00			SHOULDER DROP-OFF (SYMBOL RIGHT)	=====================================	. 1 5 5 7			CELLANE	OUS SIGNS		12. 223 110,17.03 1110 (1 2712)	1	-	<u> </u>
	30X24 5.00			SHOULDER DROP-OFF (PLAQUE)	CONST - 5	483	3X36 12.		, ,,,,,,	1.51.01		POINT OF PRESENCE			-
	42RND. 9.62			RAILROAD CROSSING		_		00 2	64			POINT OF PRESENCE			
	24X24 4.00			DOUBLE DOWN ARROW (SYMBOL)		_		00 2				WORK ZONE NO PHONE ZONE			
WO12-2	48X48 16.00			LOW CLEARANCE (SYMBOL)											5
	24X18 3.00			LOW CLEARANCE (PLAQUE)											ļ-
WO12-2	84X24 14.00			OVERHEAD LOW CLEARANCE (FEET AND INCHES)		$\perp$									
WO12-4	120X60 50.00			LOW CLEARANCE XX FT XX IN XX MILES AHEAD											
	120X60 50.00			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD											
	30X30 6.25			ADVISORY SPEED (PLAQUE)											
	30X24 5.00			XXX FEET (PLAQUE)											
	30X24 5.00			X MILE (PLAQUE)											
	48X48 16.00			ROAD/BRIDGE/RAMP WORK AHEAD											
	48X48 16.00			DETOUR AHEAD											
	48X48 16.00			ROAD CLOSED AHEAD	616-10				TOTAL	l					
	48X48 16.00			ONE LANE ROAD AHEAD				IGNS	2573						
	48X48 16.00			RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10			ıc		TOTAL					
	48X48 16.00			2 RIGHT/CENTER/LEFT LANE CLOSED AHEAD	RELOCA	4 I EL	ח אופע	15		0					
	48X48 16.00		<del>                                     </del>	RIGHT/CENTER/LEFT LANE CLOSED											

WO20-7a 48X48 16.00 28 448

WO21-2 36X36 9.00 WO21-5 48X48 16.00 WO22-1 48X48 16.00

WO22-2 42X36 10.50

WO22-3 42X36 10.50

FLAGGER (SYMBOL)

SHOULDER WORK AHEAD
BLASTING ZONE AHEAD

END BLASTING ZONE

TURN OFF 2-WAY RADIO AND PHONE

FRESH OIL

SUMMARY OF QUANTITIES
SHEET 3 OF 3

ORAG ALAN
SMIZER

ORAG ALAN
SMIZER

PE-2003015045

ORAG ALAN
SMIZER

ORAG ALAN
SMIZER

PE-2003015045

DATE PREPARED

8 / 27 / 20 24

ROUTE STATE

97 MO

DISTRICT SHEET NO.
SW 3

COUNTY

DADE, LAWRENCE

JOB NO.
J SR 0 1 6 4

CONTRACT ID.

PROJECT NO.

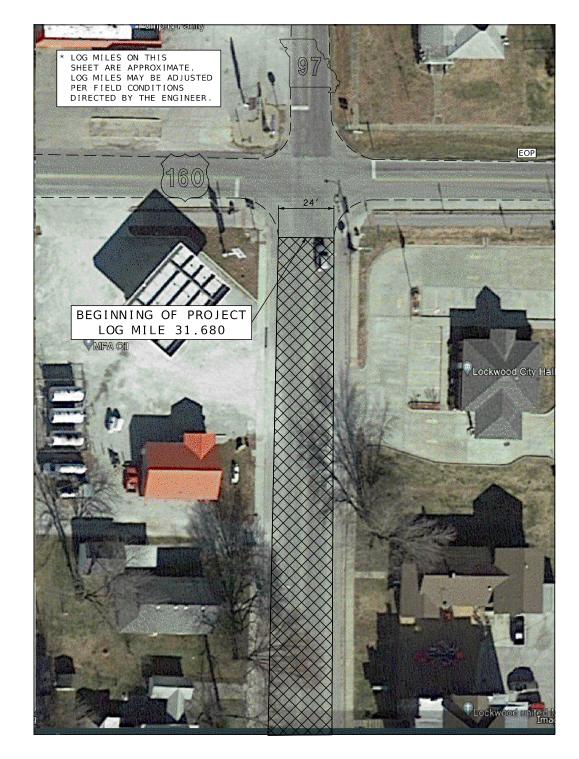
BRIDGE NO.



## PROJECT BEGINNING AND ENDING

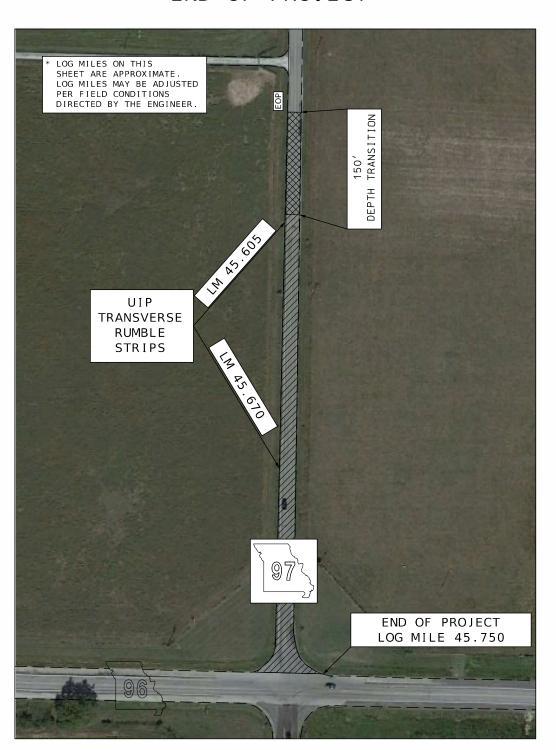
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

## BEGINNING OF PROJECT





## END OF PROJECT



NOT TO SCALE



NOT TO SCALE





ITION
SPECIAL SHEET
SHEET 1 OF 3

CRAIG ALAN SMITZER NUMBER PE-2003015045

09/06/2024 7:37:09/AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045

8/27/2024

ROUTE STATE
97 MO

DISTRICT SHEET NO

SW 4

DADE, LAWRENCE JOB NO. JSR0164

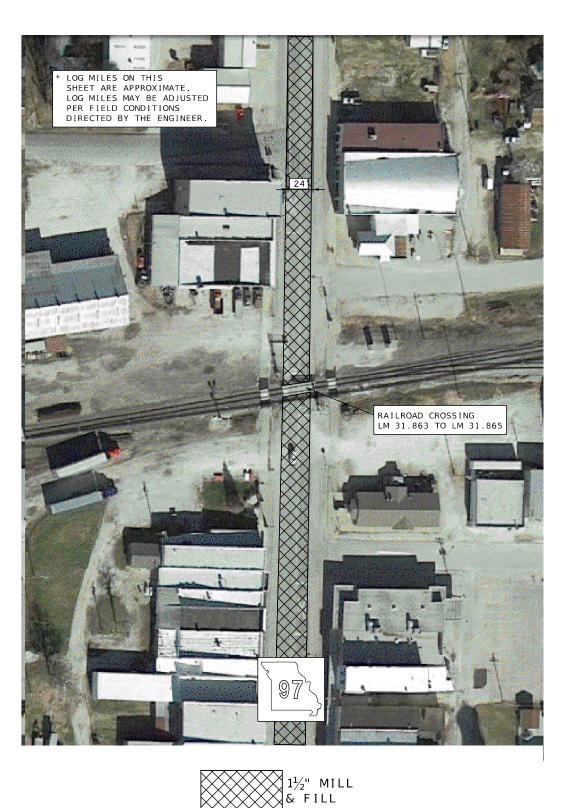
CONTRACT ID.

DRIDGE NO





# RAILROAD





NUMBER
PRE-2003015045

PRE-2003015045

OBORDOZ TATAMM
CRIA ALAN SWITZER - CML
MO-PE-2003015045

DATE PREPARED
8/27/2024

ROUTE
97 MO
DISTRICT SHEET NO.
SW 5

COUNTY
DADE, LAWRENCE
JOB NO.
J SR0164
CONTRACT ID.

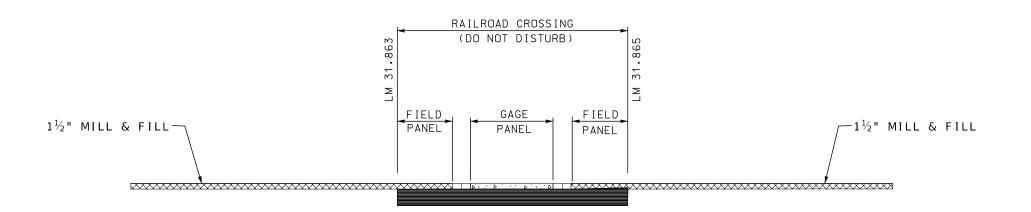
PROJECT NO.

BRIDGE NO.

NOT TO SCALE

SPECIAL SHEET SHEET 2 OF 3

# RAILROAD CROSSING



ROUTE 97 LOG MILE 31.864

BNSF RAILROAD CROSSING NOT TO SCALE

CRAIG ALAN SMIZER NUMBER PE-2003015045

09/06/2024 7:37:38/AM CRAIG ALAN SWITZER - CI MO-PE-2003015045

DATE PREPARED 8 / 27 / 2024

0, = . ,	
ROUTE	STATE
97	MO
DISTRICT	SHEET NO.
SW	6

COUNTY

DADE , LAWRENCE

JOB NO.
JSR0164
CONTRACT ID.

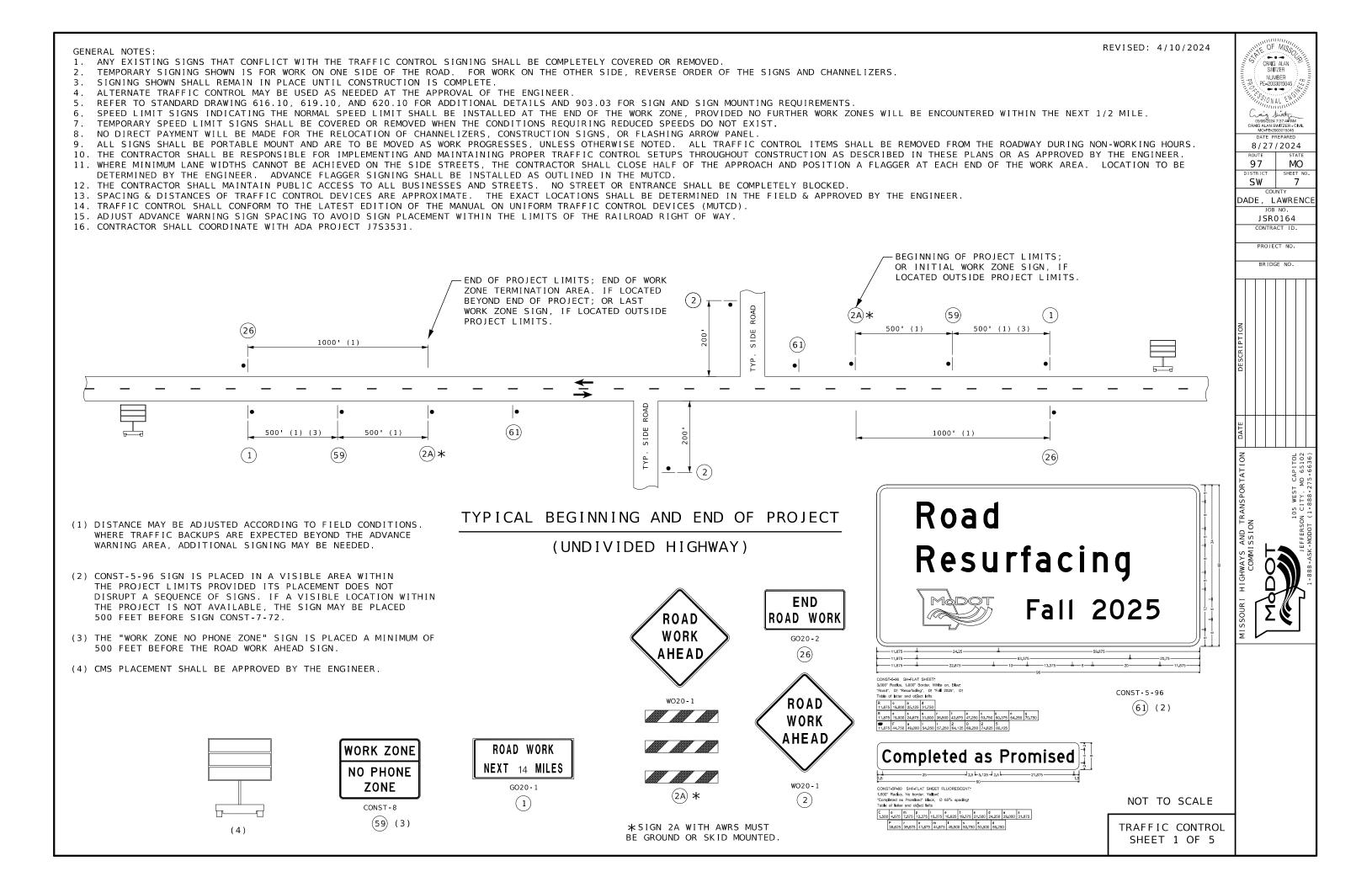
PROJECT NO.

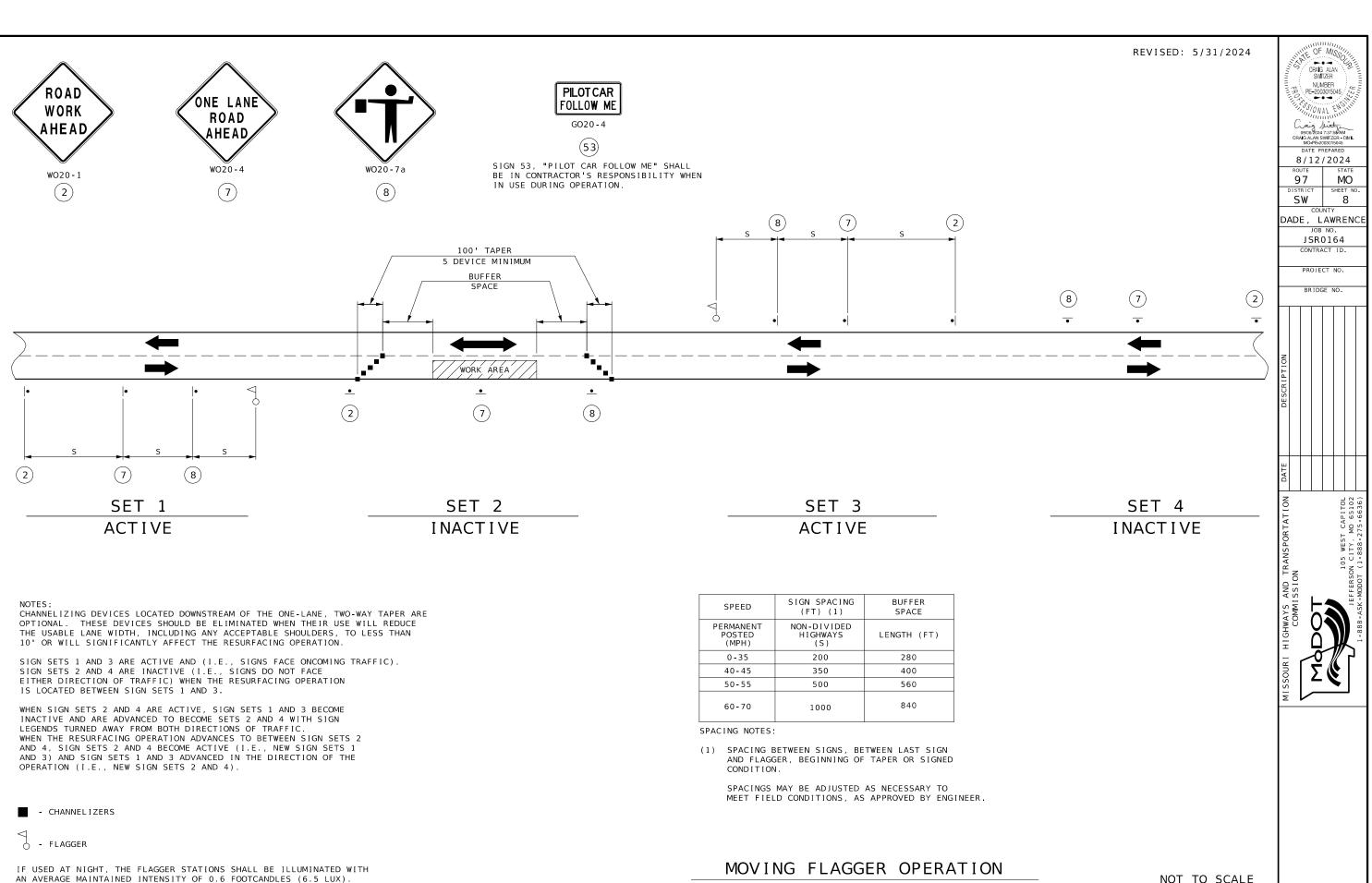
DESCRIPTION

SSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
105 WEST CAPITOL
HEFFERSON CITY MO 65102

NOT TO SCALE

SPECIAL SHEET SHEET 3 OF 3





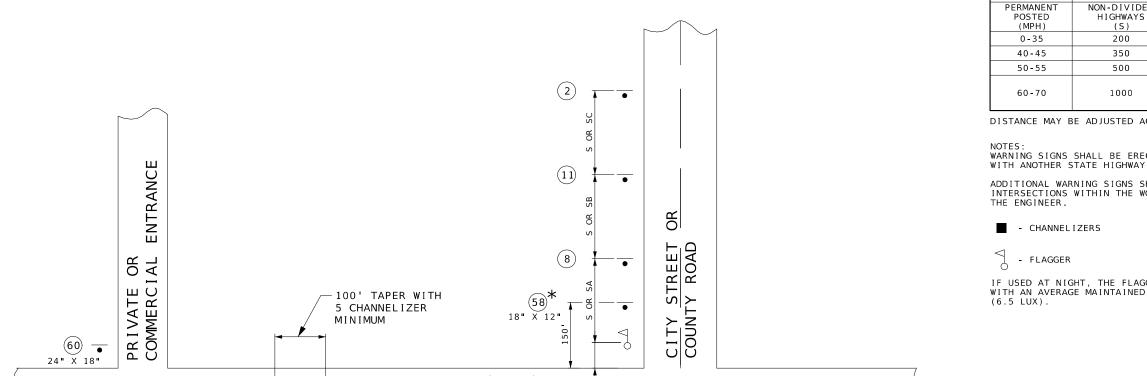
(UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL SHEET 2 OF 5

#### REVISED: 5/31/2024

## SIDE ROADS ENTERING WORK ZONES



(58)

(8)

(11)

(2)

42" X 30"

CENTERLINE

ROUTE

STATE

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.

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 (6.5 LUX).



GO20-4a (58)

SHALL BE USED ON ALL INTERSECTIONS.

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

24 X 18 (60)

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

PILOT CAR IN USE WAIT & FOLLOW

CRAIG ALAN SWITZER NUMBER PE-2003015045

09/06/2024 7:38:08/AM CRAIG ALAN SWITZER - CIVIL

8/12/2024

DADE, LAWRENC

JSR0164 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MO SHEET NO 9

97

SW

8

CHANNELIZERS SPACED 5 FT APART

PREPARED

TO STOP

WO3-4

(11)

WIDTH.

WORK AHEAD

WO20-1

2

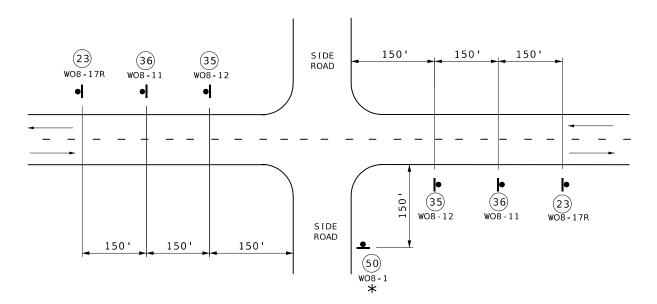
AND EXTENDED 20 FT PAST ENTRANCE

TRAFFIC CONTROL SHEET 3 OF 5

NOT TO SCALE

### 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 STATE ROUTE 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: 5/31/24





SHOULDER DROP-OFF

WO8 - 17R WO8 - 17p







GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE STD. 620.10, SHEET  $1\ \text{OF}\ 5$ .

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

CRAIG ALAN SWITZER NUMBER PE-2003015045 SSIONAL ENG 09/06/2024 7:38:28/AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045 8/12/2024 97 MO SHEET NO SW 10 DADE, LAWRENC JSR0164 CONTRACT ID. PROJECT NO. BRIDGE NO.

SOURI HIGHWAYS AND TRANSPORTATION DAY
COMMISSION

105 WEST CAPITOL
1-888-ASK-MODOT (1-888-275-6638)

#### NOTES:

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

PROTECTIVE TRUCKS 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, OSCILLATING, OR STROBE LIGHTS.

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.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
- (2) 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.
- (3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

CRAG ALAN SMIZER NUMBER PE-2003015045

09/06/2024 7:38:38 AM CRAIG ALAN SWITZER - CIVIL MO-PE-2003015045

8/12/2024

ROUTE STATE
97 MO

DISTRICT SHEET NO
SW 11

DADE, LAWRENCE

JSR0164 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

ISSOURI HIGHWAYS AND TRANSPORTATI
COMMISSION

TAODOT

105 WEST CAPIT

NOT TO SCALE

STRIPING ON TWO-LANE HIGHWAY

TRAFFIC CONTROL SHEET 5 OF 5

