

## INDEX OF SHEETS COTT MICHAE MCDONALD NUMBER PE-2018000240 SHEET DESCRIPTION NUMBER TITLE SHEET ..... 1 TYPICAL SECTIONS (TS) (1 SHEET)----2 11/01/2024 QUANTITIES (QU) (2 SHEETS)-----3 PLAN (P)-----4 28 MO SHEET NO SPECIAL SHEETS (SS)-----5 CD 1 TRAFFIC CONTROL SHEETS (TC)----- 6-10 PULASK I PAVEMENT MARKING (PM)----- 11 J5S3480B BRIDGE DRAWINGS (B) CONTRACT ID. A08034----- 1-4 PROJECT NO. BRIDGE NO. LENGTH OF PROJECT BEGINNING OF PROJECT STA. 1 + 50.00 END OF PROJECT STA. 6 + 00.00 APPARENT LENGTH 450.00 FEET EQUATIONS AND EXCEPTIONS: **EENSTRA KIMM** INC. 4 ð TOTAL CORRECTIONS 0.00 FEET 450.00 FEET NET LENGTH OF PROJECT STATE LENGTH 0.0852 MILES FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES 0 ACRES



# **TYPICAL SECTIONS** SHEET 1 OF 1

(1) TRANSITION AS REQUIRED TO BRIDGE
(2) SEE DETAIL BELOW

CROSS SLOPE

CROSS SLOPE (1) 2.0% ASSUMED



PAVEMENT	MARKING	- WATERBO	RNE PAVEMENT	MARKING PA	Ι
			4" YELLOW	4" WHITE	
STATION	LOCATION	LOCATION	(LF)	(LF)	
1+01.15 TO 5+73.47	RTE 28	LT		373.0	S
1+01.15 TO 5+73.47	RTE 28	€ ROAD	746.0		D
1+01.15 TO 5+73.47	RTE 28	RT		373.0	S
		TOTAL	746.0	746.0	
		USE	746	746	

COLDMILLING BIT	UMINOUS	PAVEME	NT FOR	REMOVAL (
STATION	LOCATION	SIDE	QUANTITY (SY)	
2+01.15 TO 2+51.15	RTE 28	LT & RT	139.5	50' APPROAC
5+23.47 TO 5+73.47	RTE 28	LT & RT	139.5	50' APPROAC
		TOTAL	279.0	
		USE	279	

REMOVAL OF IMPRO	OVE
STATION LOCATION SIDE (LUMP SUM)	
2+13 TO 2+86 RTE 28 RT - RE	EMOV
4+89 TO 5+86 RTE 28 RT - RE	EMOV
1+82 TO 2+86 RTE 28 LT - RE	emov
4+88 TO 5+86 RTE 28 LT - RE	emov
2+66 TO 2+86 RTE 28 LT & RT - RE	EMOV
4+88 TO 5+08 RTE 28 LT & RT - RE	EMOV
TOTAL 1	

	CONCRET	E APPF	۲C
STATION	LOCATION	SIDE	
2+51 TO 2+66	RTE 28	LT & RT	
5+08 TO 5+23	RTE 28	LT & RT	
		TOTAL	
		USE	
-			

SHAPING SLOPES-CLASS III							
STATION	LOCATION	SIDE	QUANTITY (100LF)	REMARKS			
2+13 TO 2+86	RTE 28	RT	1.6				
4+89 TO 5+86	RTE 28	RT	2.0				
1+82 TO 2+86	RTE 28	LT	2.0				
4+88 TO 5+86	RTE 28	LT	1.6				
		TOTAL	7.2				
		USE	8.0				

83.6 83.6

BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)							
STATION	LOCATION	AREA (SF)	PMBP (TON)	TACK COAT (GAL)	REMARKS		
2+01.15 TO 2+51.15	RTE 28	1254.0	15.1	13.9	BP-1 = 1.948 TONS/CY		
5+23.47 TO 5+73.47	RTE 28	1254.0	15.1	13.9	TACK = $0.10 \text{ GAL/SY}$		
TOTAL				27.8			
	USE	30.2	28				

	MGS GUARDRAIL						
			QUANTITY				
STATION	LOCATION	SIDE	(LF)	REMARKS			
2+00±	RTE 28	LT	112.5	9 SECTIONS @ 12.5'			
2+00±	RTE 28	RT	112.5	9 SECTIONS @ 12.5'			
5+75±	RTE 28	LT	112.5	9 SECTIONS @ 12.5'			
5+75±	RTE 28	RT	112.5	9 SECTIONS @ 12.5'			
TOTAL		450 0					
	USE						

MGS BR	MGS BRIDGE APROACH TRANSITION SECTION (REGULAR/NO CURB)							
CTATION			QUANTITY	DEMADIZE				
STATION	LUCATION	SIDE	(EACH)	REMARKS				
2+00±	RTE 28	LT	1	LENGTH = 37.5'				
2+00±	RTE 28	RT	1	LENGTH = 37.5'				
5+75 <u>+</u>	RTE 28	LT	1	LENGTH = 37.5				
5+75±	RTE 28	RT	1	LENGTH = 37.5'				
	TOTAL		4					

	ΤΥΡΕ Α	CRASI	HWORTHY	END TERMINAL (MASH)
STATION	LOCATION	SIDE	QUANTITY (EACH)	REMARKS
2+00±	RTE 28	LT	1	LENGTH EQUAL 50.8'
5+75 <u>+</u>	RTE 28	RT	1	LENGTH EQUAL 50.8'
TOTAL		2		

MGS END ANCHOR							
STATION	LOCATION	SIDE	QUANTITY (EACH)	REMARKS			
2+00 <u>+</u>	RTE 28	RT	1				
5+75 <u>+</u>	RTE 28	LT	1				
	TOTAL		2				

MOBILIZA	TION
LUMP SUM	1

INT (	TYPE P	РВ	EADS)
		RF	ΜΔΒΚS
SOLID	EDGE LINE	111	
DOUBLE	SOLID CE	NTER	LINE
SOLID	EDGE LINE		
OF S	URFACI	NG	(3 IN. OR LESS)
	REM	IARK	S
CH PAV	EMENT		
CH PAV	EMENT		
EMEN	15		
	RE	MAF	RKS
VE EXI	STING GUR		IL 70
VE EXI	STING GUA	RDRA	IL 194'
VE EXI	STING GUA	RDRA	IL - 59
VE EXI	STING BRI	DGE	APPROACH SLAB 56 S.Y.
IVE EXI	STING BRI	DGE	APPROACH SLAB - 56 S.Y.
АГГР	UACH P	AV	
	QUANTI	ΤY	
	(SY)		KEMARKS
<u>і &amp; КІ</u> Т & RT	41.8		
	11.0		

SUMMARY OF QUANTITIES SHEET 1 OF 2

	ESCRIPTION ESCRIPTION		SCOM PE SSE SSECTION IN THE STORE OF THE BR		AGEILO RESISTANDO ST. KI OFID NO NO		
	ISSOURI HIGHWAYS AND TRANSPORTATION DATE	COMMISSION		MoDOT	105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)
0		A A VEENSTRA			9788 N Ash Avenue Kansas City, Missouri 64157	810-781-9182 810-781-0043 (FAX) Certificate of Authority No. 2002006347	

				Т	OTAL QTY	TOTAL SIGN						QTY ΤΟΤΑ	LSIGN				EFFECTIVE: 07-01-2024	OF MIS
	SIZ	ZE	AREA   QT	'Y   A	AREA RELOC	RELOC NUM.			SIZE	AREA	QTY ΤΟΤΑ	LRELOCRELO	CNUM.		I TE	м  тота	L	ALL OF
	SIGN IN	I. S	SQ.FT. EA	CH S	Q.FT. EACH	SQ.FT.	DESCRIPTION	SIGN	IN.	SQ.FT.	EACH SQ.FT	EACH SQ.FT		DESCRIPTION	NUMB	ER QTY	DESCRIPTION	SCOTT MICHAEL
					WARNING S	IGNS					GL	JIDE SIGNS			61220	800	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	NUMBER
	WO1-1L 48X	48	16.00				TURN (SYMBOL LEFT)	E05-1	36X48	12.00				GORE EXIT	61220	009	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	PE-2018000240
	WO1-1R 48X	48 .	16.00				TURN (SYMBOL RIGHT)	E05-2	48836	12.00					61220	12	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	- SSIONAL ENGL
	WO1-2E 48X	48	16.00				CURVE (SYMBOL BIGHT)	G020-1	60X24	10.00				BOAD WORK NEXT XX MILES	61220	)14	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	ALL LING
	WO1-3L 48X	48	16.00				REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00				END ROAD WORK	61220	017	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	THIS SHEET HAS BEEN SIGNED, SEALED AND DAT
multic         multic<	WO1-3R 48X	48	16.00				REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50				PILOT CAR FOLLOW ME	61220	019	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	DATE BRERARED
	WO1-4L 48X	48 3	16.00				REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75				PILOT CAR IN USE WAIT & FOLLOW	61220	20	REPLACEMENT SAND BARREL	11/01/2024
	WO1-4R 48X	48 3	16.00				REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50				PILOT CAR IN USE WAIT & FOLLOW	61220	030	IMPACT ATTENUATOR (RELOCATION)	ROUTE STATE
	WO1-4bL 48X	48 3	16.00				DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aF	36X24	6.00	4 24.00	)	54	WORK ZONE (PLAQUE)	61230	001	TRUCK MOUNTED ATTENUATOR (TMA)	28 MO
	WO1-4bR 48X	48	16.00				DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8 a	24X18	3.00	2 6.00		52	END DETOUR	61610	008	ADVANCED WARNING RAIL SYSTEM	DISTRICT SHEET NO
	WO1-4cL 48X	48	16.00				TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4 - 9L	48X36	12.00				DETOUR (LEFT)	61610	12	BUOYS (BOATS KEEP OUT)	
	WO1-4CR 48X	30	12 50				HORIZONITAL ARROW (SYMBOL)	MO4 - 9R	48830	12.00				STREET NAME (PLACUE)	61610	114	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	PULASK I
	W01-6a 72X	36	18 00				HORIZ ARROW (SYMBOL ON PERMANENT BARRICADE)	M04-101	48X18	6.00				DETOUR ABBOW (LEET)	61610	25 120	CHANNELIZER (TRIM LINE)	JOB NO.
	WO1-7 60X	30 3	12.50				DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18	6.00	2 12.00	)	17R	DETOUR ARROW (RIGHT)	61610	030 8	TYPE III MOVEABLE BARRICADE	J553480B
	WO1-7a 72X	36	18.00				DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.				REGU	LATORY SIGN	S		61610	033	DIRECTION INDICATOR BARRICADE	CONTRACT ID.
	WO1-8 18X	24	3.00				CHEVRON (SYMBOL)	R1-1	48X48	13.25				STOP	61610	40 4	FLASHING ARROW PANEL	PROJECT NO.
No.4         No.5         No.5 <th< td=""><td>WO1-8a 30X</td><td>36</td><td>7.50</td><td></td><td></td><td></td><td>CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)</td><td>R1-2</td><td>48TR I .</td><td>. 6.93</td><td></td><td></td><td></td><td>YIELD</td><td>61610</td><td>)47</td><td>TYPE III OBJECT MARKER</td><td></td></th<>	WO1-8a 30X	36	7.50				CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TR I .	. 6.93				YIELD	61610	)47	TYPE III OBJECT MARKER	
	WO3-1 48X	48 3	16.00				STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00				TO ONCOMING TRAFFIC (PLAQUE)	61610	55 16	SEQUENTIAL FLASHING WARNING LIGHT	BRIDGE NO.
	WO3-2 48X	48	16.00				YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50			<u> </u>	ALL WAY (PLAQUE)	61610	070	TUBULAR MARKER	-
	WO3-3 48X	48	16.00				SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4 24.00	)	4	SPEED LIMIT 70 (NORMAL CREED)	61610	95	RADAR SPEED ADVISORY SYSTEM	-
Set:       1.0001       1.0001       1.00000       1.0000       1.0000	W03-4 48X	40	16.00				SPEED LIMIT AHEAD	R3-2	30×48	16.00	4 24.00		25	NO LEET THRN (SYMPOL)	61610	96	COMMISSION FURNISHED / DETAINED	
by b	WO4-11 48X	48	16.00				MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00		+	-	NO TURNS			CHANGEABLE MESSAGE SIGN WITHOUT COMM	-
Solution	WO4 1R 48X	48	16.00				MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00				NO U-TURN (SYMBOL)	616109	98A 2**	INTERFACE - CONTRACTOR FURNISHED/RETAINED	z
Bit: Jack Holes (J. C.)         D. J. S. B.         Here: (J. C.)	WO4-1aL 48X	48	16.00 2	3	32.00	6A	MERGE (LEFT)	R3-7L	30X30	6.25				LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN WITH COMM.	<b> </b>
Model       Model <th< td=""><td>WO4-1aR 48X</td><td>48</td><td>16.00 2</td><td>3</td><td>32.00</td><td> 6B</td><td>MERGE (RIGHT)</td><td>R3-7R</td><td>30X30</td><td>6.25</td><td></td><td></td><td></td><td>RIGHT LANE MUST TURN RIGHT</td><td>61610</td><td>99</td><td>INTERFACE - CONTRACTOR FURNISHED/RETAINED</td><td></td></th<>	WO4-1aR 48X	48	16.00 2	3	32.00	6B	MERGE (RIGHT)	R3-7R	30X30	6.25				RIGHT LANE MUST TURN RIGHT	61610	99	INTERFACE - CONTRACTOR FURNISHED/RETAINED	
	WO5-1 48X	48 3	16.00				ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00				DO NOT PASS	61620	00A	WORK ZONE TRAFFIC SIGNAL SYSTEM	SCR
10:2:1       10:2:0	WO5-3 48X	48 3	16.00				ONE LANE BRIDGE	R4-2	36X48	12.00			_	PASS WITH CARE	61620	002	TEMPORARY LONG-TERM RUMBLE STRIPS	8
No.2         No.2 <th< td=""><td>WO5-5 48X</td><td>48</td><td>16.00</td><td></td><td></td><td></td><td>NARROW LANES</td><td>R4-7a</td><td>36X48</td><td>12.00</td><td></td><td></td><td></td><td>KEEP RIGHT (HORIZONTAL ARROW)</td><td></td><td></td><td>TEMPORARY TRAFFIC BARRIER</td><td></td></th<>	WO5-5 48X	48	16.00				NARROW LANES	R4-7a	36X48	12.00				KEEP RIGHT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER	
mini-s	WO6-1 48X	48 .	16.00				DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00				REEP LEFT (HORIZONTAL ARROW)	617360	000	TEMPORARY TRAFFIC RARRIER	-4
model:       4.64       4.64	WO6-2 48X	40	16.00				TWO WAY TRAFFIC (SYMBOL)	B5-1a	36X24	6.00					61736	02B	CONTRACTOR FURNISHED/COMMISSION RETAINED	
	W07-3a 30X	24	5.00				NEXT XX MILES (PLAQUE)	R6-11	54X18	6.75				ONE WAY ARROW (LEFT)	61740	00A	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
NB-2       ASKM       15.00       OP       DP       HS-21       ASKM       SSC       DP       DP </td <td>WO8-1 48X</td> <td>48 3</td> <td>16.00</td> <td></td> <td></td> <td></td> <td>BUMP</td> <td>R6-1R</td> <td>54X18</td> <td>6.75</td> <td></td> <td></td> <td></td> <td>ONE WAY ARROW (RIGHT)</td> <td>61750</td> <td>10A</td> <td>RELOCATING TEMPORARY TRAFFIC BARRIER</td> <td></td>	WO8-1 48X	48 3	16.00				BUMP	R6-1R	54X18	6.75				ONE WAY ARROW (RIGHT)	61750	10A	RELOCATING TEMPORARY TRAFFIC BARRIER	
BRI-1         CARKE         Core         DBL RMT (RGPT)         DBL	WO8-2 48X	48	16.00				DIP	R6-2L	24X30	5.00				ONE WAY (LEFT)			TEMPORARY TRAFFIC BARRIER	
NML-4         Start         Start <th< td=""><td>WO8-3 48X</td><td>48</td><td>16.00</td><td></td><td></td><td></td><td>PAVEMENT ENDS</td><td>R6-2R</td><td>24X30</td><td>5.00</td><td></td><td></td><td></td><td>ONE WAY (RIGHT)</td><td>61760</td><td>00B</td><td>COMMISSION FURNISHED/RETAINED</td><td></td></th<>	WO8-3 48X	48	16.00				PAVEMENT ENDS	R6-2R	24X30	5.00				ONE WAY (RIGHT)	61760	00B	COMMISSION FURNISHED/RETAINED	
MM-1       498/08       16.35       COMPLEX CONTINUE SET       Stateway on the set of t	WO8-4 48X	48 3	16.00				SOFT SHOULDER	R9-9	24X12	2.00				SIDEWALK CLOSED	4		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	TOL 102
Non-       Provide List 00       Provide Lis	WO8-5 48X	48	16.00				SLIPPERY WHEN WET (SYMBOL)							SIDEWALK CLOSED AHEAD,	61770	00B	COMMISSION FURNISHED/RETAINED	ATI 65
Non-top         Non-top <t< td=""><td>W08-6 48X</td><td>48 .</td><td>16.00</td><td></td><td></td><td></td><td></td><td>R9-IIL</td><td>24X18</td><td>3.00</td><td></td><td></td><td></td><td>(ARROW LEFT) CROSS HERE</td><td>620800</td><td>64A</td><td>TEMPORARY RAISED PAVEMENT MARKER</td><td>- Ž Ž₽</td></t<>	W08-6 48X	48 .	16.00					R9-IIL	24X18	3.00				(ARROW LEFT) CROSS HERE	620800	64A	TEMPORARY RAISED PAVEMENT MARKER	- Ž Ž₽
No.9-2         State         Control         Constrain         Provide and the state of t	W08-0C 48X	36	9 00				LOOSE GRAVEL	-   <sub>R9-11R</sub>	24X18	3 00				(ABBOW BIGHT) CROSS HERE	90294	101	TEMPORARY TRAFFIC SIGNALS AND LIGHTING	Fol Pol
Weil-9         State         10         Construction         No         11         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         2         20         00         20         00         20         00         20         00         00         20         00         <	WO8-7a 36X	36	9.00				FRESH OIL / LOOSE GRAVEL	R10-6	24X36	6.00				STOP HERE ON RED (45^ ARROW)				
UNCENT 1         DATES         MISCELLARADOUS SIGNS         MISCELLARADOUS SIGNS           VAGE 12         ABXAG         16.00         MOCISTER LINE         CONST-5         65X10         24.60         Note Carbon	WO8-9 48X	48	16.00				LOW SHOULDER	R11-2	48X30	10.00	2 20.00	)	29	ROAD CLOSED				
VIGN-12         448/48         15.60         MO         CONTRET         CONTRE	WO8-11 48X	48	16.00				UNEVEN LANES				MISCEL	LANEOUS SIC	<u>SNS</u>					I ON
WB-13       48448       16.00       GROUPE PAREMENT       CONT-5       95448       32.00       WORT-5       95448       32.00       SOUL       SOUL       WORT-5       95448       32.00       SOUL       SOUL       WORT-5       95448       32.00       SOUL       SOUL       WORT-5       95428       33.00       SOUL       WORT-5       95428       33.00       SOUL       WORT-5       95428       33.00       SOUL       WORT-5       95428       33.00       S	WO8-12 48X	48	16.00				NO CENTER LINE	CONST-5	48X36	12.00	2 24.00	)	68	POINT OF PRESENCE				SS .
W88-19       3024       5.00       MOTOXCYCLE (PLAQUE I       CONST-8       48x36       12.00       WORK 200K NO PHONE 200K         W86-171       4944       16       0       Should ER MORO-PYOL       EPECIAL       266       778       2       3.50       6       CONST-8       48x36       12.00       For Const-8       48x36       12.0	WO8-15 48X	48	16.00				GROOVED PAVEMENT	CONST-5	96X48	32.00				POINT OF PRESENCE	∥			
1003 178       1000       100000000 (1000000000000000000000000000	W08-15P 30X	24	5.00				MOTORCYCLE (PLAQUE)	CONST-8	48X36	12.00				WORK ZONE NO PHONE ZONE				
000       10000       10000       10000	W08-17L 48X	48 .	16.00				SHOULDER DROP-OFF (STMBOL LEFT)	SPECIAL	4286	1 75	2 3 50		68	COMPLETED AS PROMISED	μ			H∄° <b>V</b> N
10:1       42800       6.62       1       19:50       10:50	W08-17R 40X	24	5.00				SHOULDER DROP-OFF (PLAQUE)	SPECIAL	36X78	19.50	2 39.00	)	50A	DETOUR BLANK SIGNS	1			
w012-1       24/24       4.00	W10-1 42R	ND.	9.62				RAILROAD CROSSING	SPECIAL	36X78	19.50	1 19.50		50C	DETOUR BLANK SIGNS	1	Г	TEMPOPARY TRAFFIC CONTROL	L
W012-2:       14848       16.00       LOW CLEARANCE (SYMPOL)       SPECIAL 3678       13.00       2       30.00       SOG       SOG       PAY TOTAL - 1       1.LUM SIGNS         W012-22       2424       14.00       CLEARANCE (FET AND INCRES)       SPECIAL 3678       19.50       2       30.00       SOG       SOG       SOG       SOG       SOG       SOG       CONTR BLAK SIGNS       ***NOT INCRL -1       LUM SIGNS         W012-22       2424       14.00       CLEARANCE (FET AND INCRES)       SPECIAL 3678       19.50       2       30.00       SOU       SOU       CONTRUE LAK SIGNS       NOTE:         W012-4       12066       S0.00       UN CLEARANCE (FET AND INCRES)       SPECIAL 3678       19.50       2       30.00       SOU       SOU       SOU       CONTRUE LAK SIGNS       NOTE:         W012-4       12066       S0.00       UN CLEARANCE (FLAUDE)       SPECIAL 3678       19.50       2       30.00       SOU       SOU       CONTRUE LAK SIGNS       NOTE:       NOTE:       CONTRUE LAK SIGNS       NOTE:	WO12-1 24X	24	4.00				DOUBLE DOWN ARROW (SYMBOL)	SPECIAL	36X78	19.50	2 39.00		50E	DETOUR BLANK SIGNS	1	L		≝ <b>[ ₹ /≬</b>
W012-2x       24X18       3.00       Image: CPLAQUED       SPECIAL       36X78       19.50       2       39.00       SOG       DETOUR BLANK SIGNS       Image: NOT Included in Temporary TRAFIC       Image: NOT Included in Temporary TRAFIC         W012-2x8       44X2       14.00       Image: NOT Included in Temporary TRAFIC       SPECIAL       36X78       19.50       30.0       SOG       DETOUR BLANK SIGNS       Image: NOT Included in Temporary TRAFIC         W012-5       120X60       50.00       Image: NOT Included in Temporary TRAFIC       SPECIAL       36X78       19.50       2       39.00       SOG       DETOUR BLANK SIGNS       MOTE:         W012-5       120X60       50.00       Image: NOT Include in Temporary TRAFIC       SPECIAL       36X78       19.50       2       39.00       SOG       DETOUR BLANK SIGNS       MOTE:         W012-5       120X60       50.00       Image: NOT Include in Temporary TRAFIC       SPECIAL       36X78       19.50       2       39.00       SOG       DETOUR BLANK SIGNS       MOTE:       NOT Include in Temporary TRAFIC       SPECIAL       36X78       19.50       2       39.00       SOG       DETOUR BLANK SIGNS       MOTE:       NOT Include in Temporary TRAFIC       SPECIAL       36X78       19.50       2       39.00       SO	WO12-2 48X	48	16.00				LOW CLEARANCE (SYMBOL)	SPECIAL	36X78	19.50	2 39.00	)	50F	DETOUR BLANK SIGNS			PAY TOTAL = 1 LUMP SUM	IS   🖊 🗶
w012-2a       PAX24       <	W012-2x 24X	18	3.00				LOW CLEARANCE (PLAQUE)	SPECIAL	36X78	19.50	2 39.00		50G	DETOUR BLANK SIGNS	1	ل اندنه	NOT INCLUDED IN TEMPORARY TRAFFIC	
W012-4       120x00 J 0.00       IUW CLEARARCE XX F1 XX IN XX MILES AHEAD       SPECIAL 36X78 19.50       500       DETOUR BLANK SIGNS       NOTE:         W012-5       120x00 J 500       WIDTH NESTRICTION XX F1 XX IN XX MILES AHEAD       SPECIAL 36X78 19.50       2 39.00       SOU       SOU       DIANT SIGNS       NOTE:         W012-5       120x01 J 500       V       XIX F1 XX IN XX MILES AHEAD       SPECIAL 36X78 19.50       2 39.00       SOU       SOU       DIANT SIGNS       NOTE:         W013-5       120x01 J 500       V       XX F1 XX IN XX MILES AHEAD       SPECIAL 36X78 19.50       2 39.00       SOU       SOU       DIANT SIGNS       NOTE:         W016-2       30x24       5.00       V       X MILE (PLAQUE)       SPECIAL 36X78 19.50       2 39.00       SOU       SOU       DETOUR BLANK SIGNS       DIANT SIGNS	WO12-2a 84X	24	14.00				OVERHEAD LOW CLEARANCE (FEET AND INCHES)	SPECIAL	36X78	19.50	2 39.00		50H	DETOUR BLANK SIGNS	-	<u>ተ ቶ  </u>	CONTROL - 1 LUMP SUM QUANTITY	2 1
NULL         INVERT         NULL         <	W012-4 1202	x60 !	50.00				LOW CLEARANCE XX FT XX IN XX MILES AHEAD	SPECIAL	36X78	19.50	1 19.50	)	50 J	DETOUR BLANK SIGNS	NOTE .			I <b>∡</b> ∪
W11-31       JACU SUM SPEED (FLAUDE)       SPECIAL 36X78       19.50       2       39.00       SUM SPECIAL 36X78       OUANTITIES FOR TRAFFIC CONTROL WERE ESTIMATED PER THE         W016-2       30X24       5.00       X MILE (FLAQUE)       SPECIAL 36X78       19.50       2       39.00       SON       DETOUR BLANK SIGNS       FOLLOWING CONSTRUCTION SEQUENCE:         W016-2       30X24       5.00       X MILE (FLAQUE)       SPECIAL 36X78       19.50       2       39.00       SON       DETOUR BLANK SIGNS       1) BEIOW RIDGE A08034 (LOSED         W020-1       48X48       16.00       18       DETOUR AHEAD       SPECIAL 36X78       19.50       2       39.00       SON       DETOUR BLANK SIGNS       1) BEIOW RIDGE A08034, 1-44 BOTH INTERIOR LANES CLOSED         W020-3       48X48       16.00       4       64.00       18       DETOUR AHEAD       SPECIAL 36X78       19.50       2       39.00       SON       DETOUR BLANK SIGNS       3) BELOW RIDGE A08034, 1-44 BOTH INTERIOR LANES CLOSED         W020-3       48X48       16.00       2       10.00       CLOSED AHEAD       SPECIAL 36X78       19.50       2       39.00       SON       DETOUR BLANK SIGNS       A) WAIATITIES NOTED. MODIFICATIONS IN SEQUENCE         W020-3       48X48       16.00       2	W012-5 1207	20 :	50.00				WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL	36878	19.50	2 39.00		50L	DETOUR BLANK STONS	INOTE.			
Image: Note:         Image: Note:<	W016-2 30X	24	5.00				XXX FFFT (PLAQUE)		36X78	19.50	2 39.00	, , , , , , , , , , , , , , , , , , ,	501	DETOUR BLANK SIGNS	QUANT I	TIES FOR	TRAFFIC CONTROL WERE ESTIMATED PER THE	│≌∠ ⊳
W020-1       48X48       16.00       10       160.00       2       ROAD/BRIDGE/RAMP WORK AHEAD       SPECIAL       36X78       19.50       1       19.50       10000       Detrout       1,44       BOTT LANES CLOSED         W020-1       48X48       16.00       4       64.00       18       DETOUR AHEAD       SPECIAL       36X78       19.50       2       39.00       500       DETOUR BLANK SIGNS       3)       BELOW BRIDGE A08034, 1-44       HADT EXTERIOR LANES CLOSED         W020-2       48X48       16.00       1       ROAD CLOSED AHEAD       SPECIAL       36X78       19.50       2       39.00       500       DETOUR BLANK SIGNS       3)       BELOW BRIDGE A08034, 1-44 BOTH EXTERIOR LANES CLOSED         W020-4       48X48       16.00       2       32.00       7       ONE LANE ROAD AHEAD       SPECIAL       36X78       19.50       2       39.00       500       DETOUR BLANK SIGNS       ANY VARIATIONS IN SEQUENCE MOTED MAY RESULT IN ADDITIONS         W020-5       48X48       16.00       2       81.06       0       500       DETOUR BLANK SIGNS       ANY VARIATIONS IN SEQUENCE MAY WAR AND ITIONS IN SEQUENCE MADE AND ITIONS TO THE PUNCH       AN	W016-3 30X	24	5.00				X MILE (PLAQUE)	SPECIAL	36X78	19.50	2 39.00		500	DETOUR BLANK SIGNS	FOLLOW	ING CONS	TRUCTION SEQUENCE:	
W220-2       48x48       16.00       4       64.00       18       DETOUR AHEAD       SPECIAL       36x78       19.50       2       39.00       505       DETOUR BLANK SIGNS       3)       BLOW BRIDGE A08034, 1-44 BOTH EXTERIOR LANES CLOSED         W020-3       48x48       16.00       2       32.00       7       OME LANE ROAD AHEAD       SPECIAL       36x78       19.50       2       39.00       501       DETOUR BLANK SIGNS       ANY ARIATIONS IN SOUTED MAY RESULT IN ADDITIONS         W020-4       48x48       16.00       2       32.00       501       DETOUR BLANK SIGNS       ANY ARIATIONS IN SOUTED MAY RESULT IN ADDITIONS         W020-5       48x48       16.00       4       64.00       5R       RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x60       15.00       2       39.00       501       DETOUR BLANK SIGNS       ANY ARIATIONS IN APTICENTER NOTED MAY RESULT IN ADDITIONS         W20-5a       48x48       16.00       4       64.00       5L       RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x60       15.00       2       39.00       502       DETOUR BLANK SIGNS       ALL TRAFIC CONTOL NEW PROVED BY THE ENGINEER. NO DIRECT PAY FOR         W020-5a       48x48       16.00       2       32.00       6L       FLAGGER (SYMO	WO20-1 48X	48 3	16.00 1	0 10	60.00	2	ROAD/BRIDGE/RAMP WORK AHEAD	SPECIAL	36X78	19.50	1 19.50	)	50Q	DETOUR BLANK SIGNS	2) BEL	OW BRIDG	E A08034, I-44 BOTH INTERIOR LANES CLOSED	
W020-3       48x48       16.00       ROAD CLOSED AHEAD       SPECIAL       36x78       19.50       2       39.00       501       DETOUR BLANK SIGNS       ANY VARIATIONS IN SEQUENCE NOTED MAY RESULT IN ADDITIONS         W020-4       48x48       16.00       2       32.00       7       ONE LANE ROAD AHEAD       SPECIAL       36x78       19.50       2       39.00       501       DETOUR BLANK SIGNS       OR CHANGES APPOQUANTITIES NOTED. MODIFICATIONS TO SEQUENCE NOTED MAY RESULT IN ADDITIONS         W020-4       48x48       16.00       4       64.00       5L       2 RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x78       19.50       2       39.00       500       DETOUR BLANK SIGNS       OR CHANGES APPOQUANTITIES NOTED. MODIFICATIONS TO SEQUENCE NOTED. MODIFICATIONS TO SEQUENCE NOTED.       SPECIAL       36x60       15.00       2       39.00       502       DETOUR BLANK SIGNS       SHALL BACK       SPECIAL       36x60       15.00       2       30.00       SOX       DETOUR BLANK SIGNS       SHALL BACK	WO20-2 48X	48	16.00 4	6	64.00	18	DETOUR AHEAD	SPECIAL	36X78	19.50	2 39.00		505	DETOUR BLANK SIGNS	]3) BEL	OW BRIDG	E A08034, I-44 BOTH EXTERIOR LANES CLOSED	
W020-4       48x48       16.00       2       32.00       7       ONE LANE ROAD AHEAD       SPECIAL       36x78       19.50       2       39.00       SOU DETOUR BLANK SIGNS       OR CHANGES TO QUANTITIES NOTED. MODIFICATIONS TO SEQUENCE         W020-5       48x48       16.00       4       64.00       SR       RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x60       15.00       2       39.00       SOV DETOUR BLANK SIGNS       SHALL BE APROVED BY THE ENGINEER. NO DIRECT PAY FOR         W020-54       48x48       16.00       4       64.00       SR       RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x60       15.00       2       30.00       SOV DETOUR BLANK SIGNS       SHALL BE APROVED BY THE ENGINEER. NO DIRECT PAY FOR         W020-64       48x48       16.00       2       32.00       GR       RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x60       15.00       2       30.00       SOZ       DETOUR BLANK SIGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEMS.         W020-74       48x48       16.00       ERGENC       FRESH OIL       SPECIAL       36x60       15.00       2       30.00       SOZ       DETOUR BLANK SIGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01,         W021-2       48x48       16.00	WO20-3 48X	48	16.00				ROAD CLOSED AHEAD	SPECIAL	36X78	19.50	2 39.00	)	50T	DETOUR BLANK SIGNS			IN SECUENCE NOTED MAY RESULT IN ADDITIONS	020 020
W020-5       48x48       16.00       4       64.00       SR       RIGHT/CENTER/LEFT LANE CLOSED AHEAD       SPECIAL       36x60       15.00       2       39.00       50V       DETOUR BLANK SIGNS       SHALL BE APPROVED BY THE ENGINEER. NO DIRECT PAY FOR ADDITIONS TO HE PAY ITAMS.         W020-5a       48x48       16.00       2       32.00       6R       RIGHT/CENTER/LEFT LANES CLOSED AHEAD       SPECIAL       36x60       15.00       1       15.00       50X       DETOUR BLANK SIGNS       ADDITIONS TO HE PAY ITAMS.       ALL TRAFFIC CONTROL AND HE AND THE MORANT TRAFFIC CONTROL UNLESS NOTED OTHERVISE       ADDITIONS TO HE PAY ITAMS.       ALL TRAFFIC CONTROL AND HE AND THE MORANT TRAFFIC CONTROL UNLESS NOTED OTHERVISE       ALL MAX 816.00       IMM PAY ITAMS.       ALL TRAFFIC CONTROL AND HE AND THE MORANT TRAFFIC CONTROL AND HE AND THE MORANT TRAFFIC CONTROL AND HE AND THE	WO20-4 48X	48	16.00 2	3	32.00	7	ONE LANE ROAD AHEAD	SPECIAL	36X78	19.50	2 39.00		50U	DETOUR BLANK SIGNS	OR CHA	NGES TO	QUANTITIES NOTED. MODIFICATIONS TO SEQUENC	Е   Ш 🗶 🦉 с
W020-5a       48x48       16.00       4       64.00       5L       2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD       SPECIAL       36X60       15.00       1       15.00       50X       DETOUR BLANK SIGNS       ADDITIONS ID THE PAY TIEMS.         W020-6a       48x48       16.00       2       32.00       6R       RIGHT/CENTER/LEFT LANES CLOSED       SPECIAL       36X60       15.00       2       30.00       50Z       DETOUR BLANK SIGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY TIEMS.         W020-7a       48x48       16.00       2       32.00       6L       FLAGGER (SYMBOL)       SPECIAL       36X60       15.00       2       30.00       50A       DETOUR BLANK SIGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY TIEMS.         W021-3       48x48       16.00       2       32.00       6L       FRESH OIL       SPECIAL       36X60       15.00       2       30.00       50A       DETOUR BLANK SIGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY TIEMS.         W021-5       48x48       16.00        SHOULDER WORK / SHOULDER WORK AHEAD       SPECIAL       36X60       15.00       2       30.00       SOAB       DETOUR BLANK SIGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY TIEMS.         W022-1       48x48       16.00        <	WO20-5 48X	48	16.00 4	6	64.00	5R	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	SPECIAL	36X60	15.00	2 39.00		50V	DETOUR BLANK SIGNS	SHALL	BE APPRC	VED BY THE ENGINEER. NO DIRECT PAY FOR	
W020-03       48/48       10:00       2       32.00       6L       RIGHT/CENTER/LEFT LARE CLOSED       SPECIAL       36/k00       15:00       2       30.00       502       DETOUR BLANK STGNS       ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, UMP SUM TEMPORARY TRAFFIC CONTROL AND PAND PAY IND SUM TEMPORARY TRAFFIC CONTROL AND PAY ITEM 61	WO20-5a 48X	48	16.00 4	6	4.00	5L	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	SPECIAL	36X60	15.00	1 15.00		50X	DETOUR BLANK SIGNS		UNS TO T	HE PAT ILEMS.	horit
Nozorra       Normalize	WO20-6a 48X	48	16.00 2	3	2.00	6R	RIGHI/CENTER/LEFT LANE CLUSED	SPECIAL	36X60	15.00	2 30.00		50Z	DETOUR BLANK SIGNS	ALL TR	RAFFIC CC	NTROL ARE INCLUDED IN PAY ITEM 616-99.01,	
WO21-5     48X48     16.00     SHOULDER WORK / SHOULDER WORK AHEAD       WO22-1     48X48     16.00     BLASTING ZONE AHEAD       WO22-2     42X36     10.50     TURN OFF 2-WAY RADIO AND PHONE       WO22-3     42X36     10.50       G022-1     21X15     2.19       2     4.38	W021-2 36X	36	9.00				FRESH OIL	SPECIAL	36X60	15.00	2 30.00	>	50AA	DETOUR BLANK SIGNS	LUMP S	UM TEMPC	RARY TRAFFIC CONTROL UNLESS NOTED OTHERWIS	
W022-1       48X48       16.00       BLASTING ZONE AHEAD       616-10.05       TOTAL         W022-2       42X36       10.50       TURN OFF 2-WAY RADIO AND PHONE       CONSTRUCTION SIGNS       1325         W022-3       42X36       10.50       END BLASTING ZONE       616-10.10       1325         W022-1       21X15       2.19       2       4.38       62       WET PAINT (ARROW PIVOTS)       RELOCATED SIGNS       0	W021 5 48X	48	16.00				SHOULDER WORK / SHOULDER WORK AHEAD			13.00		-	- 2000		SUBJEC	T TO CHA	NGE BASED UPON FIELD CONDITIONS.	Ave 781-
W022-242X3610.50Image: Construction of and phoneConstruction of signs1325W022-342X3610.50END BLASTING ZONE616-10.10TOTALG022-121X152.1924.3862WET PAINT (ARROW PIVOTS)RELOCATED SIGNS0	WO22-1 48X	48	16.00				BLASTING ZONE AHEAD	616-10	. 05		TOTA	L						Ash 816-
W022-3         42X36         10.50         END BLASTING ZONE         616-10.10         TOTAL           G022-1         21X15         2.19         2         4.38         62         WET PAINT (ARROW PIVOTS)         RELOCATED SIGNS         0	WO22-2 42X	36	10.50				TURN OFF 2-WAY RADIO AND PHONE	CONSTR	<u>UCT</u> IO	<u>N SI</u> GN	IS 1325	<u> </u>						
G022-1       21X15       2.19       2       4.38       62       WET PAINT (ARROW PIVOTS)       RELOCATED SIGNS       0	WO22-3 42X	36	10.50				END BLASTING ZONE	616-10	. 10			ΤΟΤΑ	니					
	GO22-1 21X	15	2.19 2		4.38	62	WET PAINT (ARROW PIVOTS)	RELOCA	TED S	IGNS		0						





SHEET 1 OF 1

SE 1/4-NE 1/4 SEC 23, T36N, R11W GUARDRAIL INSTALLATION: GUARDRAIL INSTALLATION: OFF - RAMP MGS BRIDGE APROACH TRANSITION SECTION (37.5') 9 SECTIONS OF MGS GUARDRAIL @ 12.5' (112.5) MGS END ANCHOR MGS BRIDGE APROACH TRANSITION SECTION (37.5') 9 SECTIONS OF MGS GUARDRAIL @ 12.5' (112.5') TYPE A CRASHWORTH END TERMINAL (MASH)(50.8') WESTBOUND I-44 15' CONCRETE APPROACH PAVEMENT 15 CONCRETE APPROACH PAVEMENT 50' COLD MILLING/ REPLACE ASPHALT PAVEMENT 50' COLD MILLING/ REPLACE ASPHALT PAVEMENT 20' BRIDGE APPROACH SLAB 20' BRIDGE APPROACH SLAB S ₽ -99--01 BRIDGE REHABILITATION - SEE BRIDGE PLANS BEGIN PROJECT STA 1+50.00 1777-7-L7 JU •1000000000 A08034-BRIDGE DECK REMOVE EXISTING -GUARDRAIL (TYP) ROUTE 28 000000 WESTBOUND REMOVE EXISTING-GUARDRAIL (TYP) GUARDRAIL INSTALLATION: -MGS BRIDGE APROACH TRANSITION SECTION (37.5') . 44 9 SECTIONS OF MGS GUARDRAIL @ 12.5' (112.5') MGS END ANCHOR Q GUARDRAIL INSTALLATION: -RAMP MGS BRIDGE APROACH TRANSITION SECTION (37.5') 9 SECTIONS OF MGS GUARDRAIL @ 12.5' (112.5') TYPE A CRASHWORTH END TERMINAL (MASH) (50.8) SE 1/4-NE 1/4 SEC 23, T36N, R11W







NOT TO SCALE. FOLLOW DIMENSIONS.



BRIDGE A08034 CLOSED TRAFFIC CONTROL SHEETS SHEET 1 OF 5



# TRAFFIC CONTROL SHEETS SHEET 2 OF 5

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS.

s10		SCOMPE SIECCEDAT 1/JITE 8 RICD PR		AALL R 2240 AS ADD ST M HEE K I OU ID NO 10		TED
ATE DESCRIPTION						
MISSOURI HIGHWAYS AND TRANSPORTATION D	COMM I SS I ON		MoDOT	105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)
	A S VEENSTRA			9788 N Ash Avenue Kansas City, Missouri 64157	610-761-0162 810-761-0043 (FAX) Certificate of Authority No 2002006347	

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PROTECTIVE VEHICLE WITH TRAILER MOUNTED ATTENUATOR (TMA) AND FLASHING ARROW PANNEL (F.A.P.) (OPTIONAL)

	STATION	ARY LANE CLOS	URE ON A MU	ILTI-LANE HIGH	IWAY				
SPEED	SIGN SPACING (FT.)	TAPER LENG	STH (FT.)	RECOMMENDED	CHANNEL I ZER	SPACING (FT.)			
PERMANENT	UNDIVIDED	SHOULDER (1)	LANE (2)	BUFFER	TAPERS	BUFFER/			
POSTED	(S)	(T1)	(T2)	LENGTH (FT.)		WORK AREAS			
(MPH)				(B)					
0-35	200	70	245	250	35	40			
40-45	350	150	540	360	40	80			
50 <b>-</b> 55	500	185	660	495	50	80			
60 <b>-</b> 70	1000	235	840	730	60	120			
1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.									

NOTES:

SAME TIME.

ALL WORK REQUIRING LANE CLOSURES ON I-44 TO BE PERFORMED AT NIGHT.

FOR CLOSURE OF I-44 BELOW EACH BRIDGE, BOTH EXTERIOR LANES SHALL BE CLOSED AT THE SAME TIME AND THEN SWITCHED OVER SO BOTH INTERIOR LANES ARE CLOSED AT THE

ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

> **TYPICAL I-44 CLOSURE FOR** WORK UNDER BRIDGE TRAFFIC CONTROL SHEETS SHEET 3 OF 5





	STATION	ARY LANE CLOS	URE ON A ML	ILTI-LANE HIGH	IWAY						
SPEED	SIGN SPACING (FT.)	TAPER LENG	GTH (FT.)	RECOMMENDED	CHANNEL I ZER	SPACING (FT.)					
PERMANENT	UNDIVIDED	SHOULDER (1)	LANE (2)	BUFFER	TAPERS	BUFFER/					
POSTED	(S)	(T1)	(T2)	LENGTH (FT.)		WORK AREAS					
(MPH)				(B)							
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	<u>60-70</u> <u>1000</u> <u>235</u> <u>840</u> <u>730</u> <u>60</u> <u>120</u>										
1. SHOULDER	1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.										
2. LANE TAI	2. LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.										

NOTES:

SAME TIME.

ALL WORK REQUIRING LANE CLOSURES ON I-44 TO BE PERFORMED AT NIGHT.

FOR CLOSURE OF 1-44 BELOW EACH BRIDGE, BOTH EXTERIOR LANES SHALL BE CLOSED AT THE SAME TIME AND THEN SWITCHED OVER SO BOTH INTERIOR LANES ARE CLOSED AT THE

ALL DISTANCES AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

> **TYPICAL I-44 CLOSURE FOR** WORK UNDER BRIDGE TRAFFIC CONTROL SHEETS SHEET 4 OF 5





SIC	SCOTT MICHAEL MCDONALD NUMBER PF-2018000240 THIS SHEET HAS BEEN SLOVED. SEALED AND DATED ELECTRONICALLY. DATE PREPARED 11/01/2024 ROUTE STATE 28 MO DISTRICT SHEET NO. CD 10 COUNTY PULASK I JOB NO. J553480B CONTRACT ID. PROJECT NO. BR IDGE NO.										
DESCRIPTION											
MISSOURI HIGHWAYS AND TRANSPORTATION DAT	COMMI SS I ON		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)				
A Akenue Karsas City, Missoui 64157 B16.781-6182 816.781-0643 (FAX) Certificate of Authority No. 2002006347											





	Estimated Quantities	
	I t em	Total
	Total Surface Hydro Demolition sq. yard	562
	Removal of Concrete Wearing Surface sq. foot	5058
	Removal of Existing Deck Repair sq. foot	125
	Bridge Approach Slab (Major) sq. yard	119
*	Supplementary Wearing Surface Material cu. yard	2
	Latex Modified Concrete Wearing Surface sq. yard	562
	Diamond Grinding sq. yard	562
	Half-Sole Repair sq. foot	800
	Full Depth Repair sq. foot	50
	Deck Repair with Void Tube Replacement sq. foot	250
	Cleaning and Epoxy Coating sq. foot	1809
	Cored Void Tube Weep Holes each	72
**	Protective Coating - Concrete Bents and Piers (Epoxy) lump sum	1
	Vertical Drain at End Bents each	2

Checked Nov. 2023

ABOUT 0.1 MILE NORTH OF ROUTE Z BEGINNING STATION 2+86.50± (Match Existing)

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







### General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.









INDEX OF	SHEETS										ND DATED.
DESCRIPTION	SI NU	HEET MBER									SEALED A
TITLE SHEET QUANTITIES (QU) (1 SHEET) PLAN SHEET (PL) TRAFFIC CONTROL SHEETS (T BRIDGE DRAWINGS (B) A12613		1 2 3 4-8 1		12 ROU DIST C	DAT 2 / JTE D J 5 CON PRC BR	E PP 27 COU HE JOB S TRA		RED 202 ST/ M SHEEE 2 2 2 5 4 1 1D NO.	24 O T NC 1		RESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY
			DESCRIPTION								IF A SEAL IS PI
			DATE	•	•	•	•		•	•	
LENGTH OF		9	AYS AND TRANSPORTATION	DMM I S S I ON		H		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	- ASK - MODOT (1 - 888 - 275 - 6636)	
END OF PROJECT APPARENT LENGTH EQUATIONS AND EXCEPTIONS:	LOG MILE 10.75 LOG MILE 10.81 269.2	1 8 FEET	MISSOURI HIGHWA	C						1 - 888 -	
					HK GKEEN, INC. 520 MARYVILLE CENTRE DRIVE.	SUITE 100	ST. LOUIS. MISSOURI 63141	PHONE: (636) 519.0990 CORPORATE LICENSE #200200608			
TOTAL CORRECTIONS NET LENGTH OF PROJECT STATE LENGTH	0.0 269.28 0.051	0 FEET FEET MILES						<b>ARGreen</b>			
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.0	ACRES									

														EFFECTIVE: 07-01-2024				
	TOTAL QTY TOTAL S	I GN						Q	ντγ τοται	SIGN								r K
SIZE AREA QTY	AREA RELOC RELOC N	UM.			SIZE	ARE	AQTY	TOTAL RE	LOCRELOC	NUM.								2
SIGN IN. SQ.FT. EACH	SQ.FT. EACH SQ.FT.			SIGN	IN.	SQ.F	T EACH	SQ.FT. E	ACH SQ.FT.			ITEM	TOTAL					<
WAR			DESCRIPTION				 GUTI	DE SIGNS	,		DESCRIPTION		ΟΤΥ	DESCRIPTION				L L
WO1-11 48X48 16 00			TUBN (SYMBOL LEET)	E05-1	36X48	12 (	$\frac{001}{2}$			49	GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)				- < L
WO1-1R 48X48 16.00			TURN (SYMBOL RIGHT)	E05-2	48X36	12.0	00 2 00 2	24		48	EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)				U V
WO1-2L 48X48 16.00			CURVE (SYMBOL LEFT)	E05-2a	48X36	12.0	20				EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)				-
WO1-2R 48X48 16.00			CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.0	00 4	40		1	ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)				
WO1-3L 48X48 16.00			REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.0	0 5	40		26	END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)		DATE PREF		
WO1-3R 48X48 16.00			REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.5	0				PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)			2025 STATE	
WO1-4L 48X48 16.00			REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.7	5				PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	RC	F	MO	<u>ц</u>
WO1-4R 48X48 16.00			REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.5	0				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	DIS	STRICT	SHEET NO	, <b>_</b> _
WO1-4bL 48X48 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.0	0 4	24		54	WORK ZONE (PLAQUE)	6122030	1 4 4	IMPACT ATTENUATOR (RELOCATION)		CÐ	2	
WO1 4cl 48X48 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8a	24X18	3.0		3		52	END DETOUR	6123001		ADVANCED WARNING RALL SYSTEM				U
WO1-4CE 48X48 16.00			TRIPLE ARROW REVERSE CURVE (STMBOL LEFT)	MO4 - 9L	40/20	12.0	20				DETOUR (LEFT)	6161012	4	BUOYS (BOATS KEEP OUT)			<u>PS</u>	
WO1-6 60X30 12.50			HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	48X12	4 0					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)		J5S35	541	⊢ ⊢
WO1-6a 72X36 18.00			HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4 - 10L	48X18	6.0	0				DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)		CONTRACT	Γ ID.	
WO1-7 60X30 12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18	6.0	0				DETOUR ARROW (RIGHT)	6161025	126	CHANNELIZER (TRIM LINE)		•		ш Ц
WO1-7a 72X36 18.00			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		I		REG	ULATORY	SIGNS			6161030	3	TYPE III MOVEABLE BARRICADE		PROJECT	NO.	U U
WO1-8 18X24 3.00			CHEVRON (SYMBOL)	R1-1	48X48	13.2	25				STOP	6161033	28	DIRECTION INDICATOR BARRICADE		BRIDGE	NO.	— <b>]</b> =
WO1-8a 30X36 7.50			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TR I	. 6.9	3				YIELD	6161040	4	FLASHING ARROW PANEL				Z
WO3-1 48X48 16.00			STOP AHEAD (SYMBOL)	R1-2a	36X36	9 0	0				TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER				
WO3-2 48X48 16.00			YIELD AHEAD (SYMBOL)	K1-3P	30X12	2.5				A	ALL WAY (PLAQUE)	6161055		SEQUENIIAL FLASHING WARNING LIGHT				
WO3-3 48X48 16.00			SIGNAL AHEAD (SYMBUL)		36X48	12.0	U  = 4	48		4	SPEED LIMIT 70	6161000		IUBULAK MAKKEK				U L
WO3-4 40740 10.00 WO3-5 48848 16 00			SPEED LIMIT AHEAD	R2-1	20748 עאַאַסר	16 0	00 4 00	40		25	NO RIGHT TURN (SYMROL)	0101032		CHANGEARIE MESSAGE SIGN				
WO4-1L 48X48 16 00			MERGE (SYMBOL FROM LEFT)	R3-2	48×48	16 0	00 1	16		56	NO LEFT TURN (SYMBOL)	6161096		COMMISSION FURNISHED/RETAINED	NO			
WO4-1R 48X48 16.00			MERGE (SYMBOL FROM RIGHT)	R3-3	36X36	9.0	0				NO TURNS			CHANGEABLE MESSAGE SIGN W/O COMM.	ΠΤα			
WO4-1aL 48X48 16.00 2	32	6A	MERGE (LEFT)	R3-4	48X48	16.0	00				NO U-TURN (SYMBOL)	6161098A	2**	INTERFACE - CONTRACTOR FURNISHED/RETAINED	R II			Ŭ
WO4-1aR 48X48 16.00 2	32	6B	MERGE (RIGHT)	R3-7L	30X30	6.2	5				LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN WITH COMM.	ESC			
WO5-1 48X48 16.00			ROAD/BRIDGE/RAMP NARROWS	R3-7R	30X30	6.2	5				RIGHT LANE MUST TURN RIGHT	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED				
WO5-3 48X48 16.00			ONE LANE BRIDGE	R4-1	36X48	12.0	00				DO NOT PASS	6162000A	\	WORK ZONE TRAFFIC SIGNAL SYSTEM				
WO5-5 48X48 16.00			NARROW LANES	R4-2	36X48	12.0	00				PASS WITH CARE	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS				,
WO6-1 48X48 16.00			DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48	12.0					KEEP RIGHT (HORIZONTAL ARROW)	61726005		TEMPORARY TRAFFIC BARRIER				
W06-2 48X48 16.00			TWO WAY TRAFFIC (SYMBOL)	R4-0a	30740	6.2	5				DO NOT ENTER	01/30UUL		TEMPORARY TRAFFIC BARRIER			+ $+$ $+$	
W07-3a 30X24 5.00			NEXT XX MILES (PLAQUE)	R5-1a	36X24	6.0					WRONG WAY	61736025	3	CONTRACTOR FURNISHED/COMMISSION RETAINED	ATE			,
WO8-1 48X48 16.00			BUMP	R6-1L	54X18	6.7	5				ONE WAY ARROW (LEFT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION				1
WO8-2 48X48 16.00			DIP	R6-1R	54X18	6.7	5				ONE WAY ARROW (RIGHT)	6175010A	\	RELOCATING TEMPORARY TRAFFIC BARRIER		<u> </u>	<u> </u>	
WO8-3 48X48 16.00			PAVEMENT ENDS	R6-2L	24X30	5.0	0				ONE WAY (LEFT)			TEMPORARY TRAFFIC BARRIER	IO		1 T O 5 1 0	636
WO8-4 48X48 16.00			SOFT SHOULDER	R6-2R	24X30	5.0	0				ONE WAY (RIGHT)	6176000E	8	COMMISSION FURNISHED/RETAINED	L ∀ T		CAP 0.5	- Q
WO8-5 48X48 16.00			SLIPPERY WHEN WET (SYMBOL)	R9-9	24X12	2.0	0				SIDEWALK CLOSED	61770005		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	DR T			27:
W08-6 48X48 16.00			TRUCK CROSSING	DO 111		2 0					SIDEWALK CLOSED AHEAD,	61//0008	5	COMMISSION FURNISHED/RETAINED	SPC		×ES A A A A A A A A A A A A A A A A A A A	88
W08-8C 48X48 18.00			LOOSE GRAVEL	K9-IIL	24/10	5.0					(ARROW LEFT) CROSS HERE	9029400		TEMPORARY RAISED PAVEMENT MARKER	AN			1-8
W08-7a 36X36 9.00			ERESH OIL / LOOSE GRAVEL	R9-11R	24X18	3.0	0				(ARROW RIGHT) CROSS HERE	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	T R.	2	ON 1	_
WO8-9 48X48 16.00			LOW SHOULDER	R10-6	24X36	6.0	0				STOP HERE ON RED (45^ ARROW)	5025101			0	-	ERS	Ō
WO8-11 48X48 16.00			UNEVEN LANES	R11-2	48X30	10.0	00 1	10		29	ROAD CLOSED				AN SS			ΒQ
WO8-12 48X48 16.00			NO CENTER LINE								ROAD CLOSED XX MILES AHEAD				° N N I		ے ۳	SK
WO8-15 48X48 16.00		1	GROOVED PAVEMENT	R11-3a	60X30	12.5	50				LOCAL TRAFFIC ONLY				(A)			8 - 4
WO8-15P 30X24 5.00			MOTORCYCLE (PLAQUE)	R11-4	60X30	12 5	50				ROAD CLOSED TO THRU TRAFFIC				GH9			р 8
WO8-17L 48X48 16.00			SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 3A	60X48	20.0	<u>7 4</u>	80		53	FINE SIGN						JK.	
WU8-17R 48X48 16.00			SHOULDER DROP OFF (SYMBOL RIGHT)	CONST-3X	456X12	4.6					SPEEDING/PASSING (PLATE)			DEVICE LOCATIONS WILL DE ETELD VEDTETED		-0	۲ <u>//</u>	
WUO-1/F SUX24 S.UU W10-1 42RND 0.62			RATIROAD CROSSING		Δάλσε	17 (					POINT OF PRESENCE			DEVICE LOCATIONS WILL BE FIELD VERIFIED	NUR	ΙČ		
W012-1 24X24 4 00			DOUBLE DOWN ARROW (SYMBOL)	CONST-5	96X48	32 (	00 2	64		61	POINT OF PRESENCE		VEN D		SSC	4 '		
WO12-2 48X48 16.00			LOW CLEARANCE (SYMBOL)	CONST - 5P	2 60X8	3.3	3 2	6.66		61A	POINT OF PRESENCE	ALL TRAF	FIC CON	NTROL IS INCLUDED IN PAY ITEM 616-99.01.	11.0			
W012-2x 24X18 3.00			LOW CLEARANCE (PLAQUE)	CONST-8	48X36	12.0	00 4	48		55	WORK ZONE NO PHONE ZONE	LUMP SUN	1 TEMPOR	RARY TRAFFIC CONTROL UNLESS NOTED	ļ –	~		_
WO12-2a 84X24 14.00		1	OVERHEAD LOW CLEARANCE (FEET AND INCHES)	SPECIAL	36X60	15.0	00_3	45		50A	DETOUR ASSEMBLY-RTE E STR.	OTHERWIS	SE IN TH	E PLANS. THESE QUANTITIES ARE ONLY AN			œ	
WO12-4 120X60 50.00			LOW CLEARANCE XX FT XX IN XX MILES AHEAD	SPECIAL	36X60	15.0	00 1	15		50B	DETOUR ASSEMBLY-RTE E ADV. RT.	ESTIMATE	e and af	RE SUBJECT TO CHANGE BASED UPON		ЧЕ. 41	660	
WO12-5 120X60 50.00		'	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL	36X60	15.0	00 1	15		50C	DETOUR ASSEMBLY-RTE E RT.	FIELD CO	DNDITION	IS.		5314	200	
W013-1 30X30 6.25			ADVISORY SPEED (PLAQUE)	SPECIAL	36X60	15.0				50D	DETOUR ASSEMBLY-RTE E ADV. LT.	ΨΨ <b>ΝΙΛ-</b>				2	9.C	
W010-2 30X24 5.00			X MILE (PLAQUE)	SPECIAL	30×60	15.0		<u> </u>		50E	DETOUR ASSEMBLY-KIE E LI.	↑↑ NOT		JIN LUMP SUM IRAFFIC CONTROL QUANTITY		IN IN IO0 SDUF	۲. # 1.	
WO20-1 48X48 16 00 5	80	2	ROAD/BRIDGE/RAMP WORK AHEAD	JFECIAL	0000	15.0					DETOUN ASSEMDLI-RIE E VEEK KI.						36 ) ENSE	
WO20-2 48X48 16.00 2	32	-	DETOUR AHEAD													GRE ILLE UIT SUIT	(6 . I CE	
WO20-3 48X48 16.00 2	32	20	ROAD CLOSED AHEAD									TEMPOR	ARY TF	RAFFIC CONTROL		HR XVI S NUIS		
WO20-4 48X48 16.00			ONE LANE ROAD AHEAD	616-10	.05		1	TOTAL	I			PAY TOTA	λL =	1 LUMP SUM		MAF LC	HON RAT	
WO20-5 48X48 16.00 4	64	5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	CONSTR	UCTIC	DN S	IGNS	930								.20 ST.	P	
WO20-5a 48X48 16.00			2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10	.10				TOTAL	_		MOBILI	ZATIO	J		ß	CO	
WO20-6a 48X48 16.00 2	32	6	RIGHT/CENTER/LEFT LANE CLOSED	RELOCA	TED S	SIGN	S		0			ΡΑΥ ΤΟΤΑ	λL =	1 LUMP SUM	.		<b>—</b>	
WO20-7a 48X48 16.00			FLAGGER (SYMBOL)													$( \square$	θΓ	
WU21-2 36X36 9.00 WO21-5 46V46 16 00			TKESH UIL														Ð	
WO21-3 40A40 10.00 WO22-1 48X48 16 00			BLASTING ZONE AHEAD														C	
WO22-2 42X36 10.50			TURN OFF 2-WAY RADIO AND PHONE														Ц	
WO22-3 42X36 10.50			END BLASTING ZONE											SUMMARY OF QUANTITIES				
GO22-1 21X15 2.19			WET PAINT (ARROW PIVOTS)											SHEET 1 OF 1				













\\hrgreen.com\hrg\Data\2024\2402262\CAD\Roadway\J5S3541\_RouteE\Plan\_Sheets\07\_TC\_04\_J5S3541\_I1\_I44.dgn 7:12:15 AM 12/27/2024





Checked Sept 2024

U.I.P. AND REHABILITATE EXISTING (52'-67'-67'-49') CONTINUOUS CONCRETE VOIDED SLAB SPANS (SKEW: 30° L.

	Total
sq. foot	819*
inear foot	150
sq. foot	2331
lump sum	1

Traffic to be maintained on bridge during construction

BEGINNING STATION 44

SEC/S	UR	2	TWP	37N	RGE	8W					
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63 TO R HWEST C	OUT OF RO	E Y DUTE 63	3						I		
48+66.8	80 ±	(Matcl	n Exist	ing)							



## INDEX OF SHEETS ANDREA S. DAVIS SHEET PE-201802125 DESCRIPTION NUMBER TITLE SHEET ..... 1 TYPICAL SECTIONS (TS) (1 SHEET)----2 1/21/2025 QUANTITIES (QU) (2 SHEETS)-----3 PLAN SHEET(PL) 4 R8490 MO SHEET NO TRAFFIC CONTROL SHEETS (TC)----- 5-10 CÐ - 1 PHELPS BRIDGE DRAWINGS (B) LOB NO J5S3547 A16272----- 1-5 CONTRACT ID. PROJECT NO. BRIDGE NO ζō SSION LENGTH OF PROJECT BEGINNING OF PROJECT LOG MILE 4.448 END OF PROJECT LOG MILE 4.493 APPARENT LENGTH 237.60 FEET EQUATIONS AND EXCEPTIONS: DR I VE 6314 0990 02006 519.0 519.0 NC. CENTF CREEN. 1 VILLE CEN SUITE 10 IS. MISSO (636) 5 LICENSE HR MARYV ST. LOUI PHONE: RPORATE 20 HRGreen TOTAL CORRECTIONS 0.00 FEET NET LENGTH OF PROJECT 237.60 FEET STATE LENGTH 0.045 MILES FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES 0.0 ACRES

### APPLICATION RATES:

BP-1 (PG64-22) 1.948 TON/CUYD COMPACTED MIXTURE TACK COAT 0.10 GAL/SQYD

![](_page_26_Figure_3.jpeg)

### DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

![](_page_26_Figure_6.jpeg)

	REMOVAL OF IMPROVEMENTS										
PLAN SHEET	LOG MILE	SIDE	DESCRIPTION	AMOUNT							
				LF							
4	4.455	LT	GUARDRAIL	86.5							
4	4.455	RT	GUARDRAIL	86.5 86.5							
4	4.487	LT	GUARDRAIL								
4	4.487	RT	GUARDRAIL	86.5							
			TOTAL	1 LUMP SUM							

	PAVEMENT										
				BITUMINOUS	COLDMILLING BITUMINOUS	TACK					
PLAN	BEGIN	END		PAVEMENT MIXTURE	PAVEMENT FOR REMOVAL	COAT					
SHEET	LOG MILE	LOG MILE	SIDE	PG64-22 (BP-1)	OF SURFACING (3 IN. THICK OR LESS)						
				SY	SY	SY					
4	4.448	4.455	BOTH	105.6	105.6	105.6					
4	4.487	4.493	BOTH	105.8	105.8	105.8					
		END LE LOG MILE S 4.455 1 4.493 1 SUBT SUBT	IBTOTAL	211.4	211.4	211.4					
				2 DEPTH							
				X 1.948 TONS/CY		X 0.10 GAL/SY					
			TONS	SY	GALLON						
			TOTAL	22.9	211	21					
UNDILUTE 0.10 FOR	D TACK COAT	APPLICATION ASPHALT SURF	RATES PE ACES	R EPG TABLE 407.1.4 USED:	0.05 FOR NEW ASPHALT SURFACES,						

	GUARDRAIL										
			MGS BRIDGE APPR.	ΤΥΡΕ Α	SHAP I NG						
PLAN	LOG	SIDE	GUARDRAIL SECTION	CRASHWORTHY END	SLOPES						
SHEET	MILE		(REGULAR/NO CURB)	TERMINAL (MASH)	CLASS III						
			EA	EA	100F						
4	4.455	LT	1	1	1.2						
4	4.455	RT	1	1	1.2						
4	4.487	LT	1	1	1.2						
4	4.487	RT	1	1	1.2						
		TOTAL	4	4	5						

	PERMANENT PAVEMENT MARKING										
WATERBORNE W/ TYPE P BEADS											
PLAN	BEGIN	END	4 INCH			4 INCH					
SHEET	LOG MILE	LOG MILE	SIDE	YELLOW	REMARKS						
				LF							
4	4.448	4.493	CENTER	544	DOUBLE SOLID YELLOW						
			TOTAL	544							

	PERMANENT EROSION CONTROL											
			FURNISHING	PLACING	PERMANENT							
PLAN	LOG		TYPE 1	TYPE 1	EROSION CONTROL							
SHEET	MILE	SIDE	ROCK DITCH LINER	ROCK DITCH LINER	GEOTEXTILE							
			CY	CY	SY							
4	4.455	LT	6	6	26							
4	4.455	RT	6	6	26							
4	4.487	LT	6	6	26							
4	4.487	RT	6	6	26							
		TOTAL	24	24	104							

	TEMPORA	ARY ER	OSION CON	NTROL
			SILT	SEDIMENT
PLAN	LOG	SIDE	FENCE	REMOVAL
SHEET	MILE		LF	CY
11	4.455	LT	115	1
11	4.455	RT	115	1
11	4.487	LT	105	1
11	4.487	RT	105	1
		TOTAL	440	4
NOTE: S 1 CY PER	EDIMENT REMO	VAL IS B	ASED ON 1 CY E	PER DITCH CHECK,

![](_page_27_Picture_6.jpeg)

# RE TOTAL = 1 LUMP SUM

IOB I L I ZAT I ON
OTAL = 1 LUMP SUM
ESTORE SLOPE

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_		BR	IDO	E M	10.		
				_			
DESCRIPTION							
DATE							
MISSOURI HIGHWAYS AND TRANSPORTATION	COMMISSION		MODOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)
	ĺ	5220 Oakland Ave.	St. Louis, MO 63110	(314) 863-5570	CIVIL DESIGN,INC. Wee IDBE	Missouri State Certificate of Authority #2002006804	

SUMMARY OF QUANTITIES SHEET 1 OF 2

												EFFECTIVE: 07-01-2024	
	TOTAL	QTY TOTAL SIGN					QTY	TOTAL SI	GN				COF MISS
	SIZE AREA QTY AREA	RELOC RELOC NUM.		SIZE	AREA	QTY	TOTAL RELOC	RELOC NU	м.				
SIGN	IN. SQ FT EACH SQ FT.	EACH SQ.FT.	SIGN	IN.	SQ.FT	EACH	SQ.FT. EACH	SQ.FT.			ITEM	TOTAL	🛪 ANDREA S. 🐄
	WARNING S	IGNS DESCRIPTION				GUID	DESIGNS	11		DESCRIPTION	NUMBER		
WO1-1L	48X48 16.00	TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24	4	9 (	GORE EXIT	6122008	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	PE-2018021250
WO1 - 1R	48X48 16.00	TURN (SYMBOL RIGHT)	E05-2	48X36	12.00	2	24	4	8 1	EXIT OPEN	6122009	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48 16.00	CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00				1	EXIT CLOSED	6122010	IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	MAN ONAL VANN
WO1-2R	48X48 16.00	CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	4	40	1	. F	ROAD WORK NEXT 1 MILES	6122012	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-3L	48X48 16.00	REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	4	32	2	6 I	END ROAD WORK	6122014	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	DATE PREPARED
WO1 - 3R	48X48 16.00	REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50				1	PILOT CAR FOLLOW ME	6122017	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	1/21/2025
WO1-4L	48X48 16.00	REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75				1	PILOT CAR IN USE WAIT & FOLLOW	6122019	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4R	48X48 16.00	REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50				1	PILOT CAR IN USE WAIT & FOLLOW	6122020	REPLACEMENT SAND BARREL	
WO1-4bl	48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aF	36X24	6.00	4	24	54	4 ۱	WORK ZONE (PLAQUE)	6122030	IMPACT ATTENUATOR (RELOCATION)	
WO1-4bF	48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 <b>-</b> 8 a	24X18	3.00				1	END DETOUR	6123001	1** TRUCK MOUNTED ATTENUATOR (TMA)	COUNTY
WO1-4cl	48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00				[	DETOUR (LEFT)	6161008	4 ADVANCED WARNING RAIL SYSTEM	PHELPS
WO1-4cF	48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R	48X36	12.00				[	DETOUR (RIGHT)	6161012	BUOYS (BOATS KEEP OUT)	JOB NO.
WO1-6	60X30 12.50	HORIZONTAL ARROW (SYMBOL)	MO4 - 9 P	48X12	4.00				:	STREET NAME (PLAQUE)	6161013	BUOYS (NO WAKE)	J5S3547
WO1-6a	72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00				[	DETOUR ARROW (LEFT)	6161014	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	CONTRACT ID.
WO1-7	60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18	6.00				[	DETOUR ARROW (RIGHT)	6161025	118 CHANNELIZER (TRIM LINE)	PROJECT NO.
WO1-7a	72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				REGL	JLATORY SIG	NS			6161030	6 TYPE III MOVEABLE BARRICADE	
WO1-8	18X24 3.00	CHEVRON (SYMBOL)	R1-1	48X48	13.25						6161033	28 DIRECTION INDICATOR BARRICADE	BRIDGE NO.
W01-8a	30X36 7.50	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93					TIELD	6161040	4 FLASHING ARROW PANEL	
W03-1	48X48 16.00	STUP AHEAD (SYMBOL)	R1-2a	36X36	9.00				-+	IU UNCOMING TRAFFIC (PLAQUE)	6161047		
W03-2	48X48 16.00		K1-3P	30X12	2.50		49	<u>├</u>	/	ALL WAY (PLAQUE)	6161055	SEQUENTIAL FLASHING WARNING LIGHT	
WO3-3	48748 16.00	SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48				6161000		
w03-4	40748 10.00		KZ-1	10×48	16 00	4	48	2	<u>י</u>		0101095		
WO4 - 11	48X48 16 00		R3-1	40748	16 00					NO LEET TURN (SYMBOL)	6161006	COMMISSION FUDNISHED / DETAINED	8
W04-1L	48×48 16 00		R3-2	36736	a nn					NO TURNS	0101030		
W04-12	48X48 16 00 2 32	6A MERGE (LEET)	R3-4	48×48	16 00					NO U-TURN (SYMBOL)	61610984	A 2** INTERFACE CONTRACTOR FURNISHED/RETAINED	
WO4 - 1 aF	48X48 16 00 2 32	6B MERGE (BIGHT)	R3-71	30X30	6 25					EFT LANE MUST TURN LEFT	0101030/	CHANGEABLE MESSAGE SIGN WITH COMM	SCF
W05-1	48X48 16 00	ROAD / BRIDGE / RAMP_NARROWS	R3-7R	30X30	6 25					RIGHT LANE MUST TURN RIGHT	6161099	INTERFACE CONTRACTOR FURNISHED/RETAINED	8
WO5 - 3	48X48 16.00		R4 - 1	36X48	12.00					DO NOT PASS	6162000A	A WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO5 - 5	48X48 16.00	NARROW LANES	R4-2	36X48	12.00				1	PASS WITH CARE	6162002	TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-1	48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48	12.00				ł	KEEP RIGHT (HORIZONTAL ARROW)		TEMPORARY TRAFFIC BARRIER	
WO6-2	48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R4-8a	36X48	12.00				ł	(EEP LEFT (HORIZONTAL ARROW)	61736000	CONTRACTOR FURNISHED/RETAINED	
WO6-3	48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1	30X30	6.25				[	DO NOT ENTER		TEMPORARY TRAFFIC BARRIER	ш
WO7-3a	30X24 5.00	NEXT XX MILES (PLAQUE)	R5-1a	36X24	6.00				١	WRONG WAY	6173602E	CONTRACTOR FURNISHED/COMMISSION RETAINED	AT
WO8 - 1	48X48 16.00	BUMP	R6-1L	54X18	6.75				(	ONE WAY ARROW (LEFT)	6174000A	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8 - 2	48X48 16.00	DIP	R6-1R	54X18	6.75				(	ONE WAY ARROW (RIGHT)	6175010A	A RELOCATING TEMPORARY TRAFFIC BARRIER	Z JN^
WO8 - 3	48X48 16.00	PAVEMENT ENDS	R6-2L	24X30	5.00				(	ONE WAY (LEFT)		TEMPORARY TRAFFIC BARRIER	I 0 10
WO8 - 4	48X48 16.00	SOFT SHOULDER	R6-2R	24X30	5.00				(	DNE WAY (RIGHT)	6176000E	B COMMISSION FURNISHED/RETAINED	AP1 65 65
WO8 - 5	48X48 16.00	SLIPPERY WHEN WET (SYMBOL)	R9-9	24X12	2.00				5	SIDEWALK CLOSED		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	RT.
WO8-6	48X48 16.00	TRUCK CROSSING							5	SIDEWALK CLOSED AHEAD,	6177000E	B COMMISSION FURNISHED/RETAINED	POI
WO8-6c	48X48 16.00	TRUCK ENTRANCE	R9-11L	24X18	3.00					(ARROW LEFT) CROSS HERE	6208064A	A TEMPORARY RAISED PAVEMENT MARKER	NS NS
WO8 - 7	36X36 9.00	LOOSE GRAVEL							5	SIDEWALK CLOSED AHEAD,	9029400	TEMPORARY TRAFFIC SIGNALS	RA 105
WO8-7a	36X36 9.00	FRESH OIL / LOOSE GRAVEL	R9-11R	24X18	3.00					(ARROW RIGHT) CROSS HERE	9029401	TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8 - 9	48X48 16.00	LOW SHOULDER	R10-6	24X36	6.00				:	STOP HERE ON RED (45^ ARROW)			S S I D
WO8-11	48X48 16.00	UNEVEN LANES	R11-2	48X30	10.00	2	20	29	9	ROAD CLOSED			
W08-12	48X48 16.00		D11 D-	60220	12 50					ROAD CLOSED XX MILES AHEAD			
WO8-15	48748 10.00		R11-3a	60830	12.50				-+	LUCAL TRAFFIC UNLY			
WO8-15	3UX24 3.00			00830	12.50				-   I	TUAD CLUSED TO THRU TRAFFIC			15 👗 W 🖁
WO8-170	48X48 16 00		CONST 21	56212	4 67	4	00	5.	ا د	SPEEDING/PASSING (DIATE)	μ		∖∣≣ <b>└,ノ∦∧</b> ⁼
WO8-17	30X24 5 00			1 20112	1 4.07	MISC				STELDING/TASSING (FLATE)	NOTE	IGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED	
W10-1	42BND 9 62			48836	12 00					POINT OF PRESENCE		ROVED BY THE ENGINEER	
W012 1	24X24 4 00		CONST-5	96848	32 00	2	64	6		POINT OF PRESENCE		NOVED DI THE ENGINEEN.	🏹   🗲 🗙
W012-2	48X48 16 00	LOW CLEARANCE (SYMBOL)	CONST-5	60X8	3 33	2	6.66	61		POINT OF PRESENCE	ALI TRA	FEIC CONTROL IS INCLUDED IN PAY ITEM 616-99 01	
W012-23	24X18 3.00	LOW CLEARANCE (PLAOUF)	CONST-8	48X36	12 00	4	48	51	5 \	WORK ZONE NO PHONE ZONE	LUMP SUM	M TEMPORARY TRAFFIC CONTROL UNLESS NOTED	2 4
WO12-2;	84X24 14.00	OVERHEAD LOW CLEARANCE (FFFT AND INCHES)	SPECIAL	48X48	16.00	5	80	50		DETOUR ASSEMBLY-8490 STR	OTHERWI	SE IN THE PLANS. THESE QUANTITIES ARE ONLY AN	
W012-4	120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD	SPECIAL	48X48	16.00	-		50	BI	DETOUR ASSEMBLY-8490 ADV. RT	ESTIMAT	E AND ARE SUBJECT TO CHANGE BASED UPON	508 508
W012-5	120X60 50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL	48X48	16.00	1	16	50		DETOUR ASSEMBLY-8490 RT.	FIELD CO	ONDITIONS.	814 90
W013-1	30X30 6.25	ADVISORY SPEED (PLAQUE)	SPECIAL	48X48	16.00	1	16	50		DETOUR ASSEMBLY-8490 ADV. LT.		<del>-</del> -	63 020
W016-2	30X24 5.00	XXX FEET (PLAQUE)	SPECIAL	48X48	16.00	2	32	50	E [	DETOUR ASSEMBLY-8490 LT.	** NOT	INCLUDED IN LUMP SUM TRAFFIC CONTROL QUANTITY	nc. 19. #20
WO16-3	30X24 5.00	X MILE (PLAQUE)	SPECIAL	48X48	16.00	7	112	50	) F [	DETOUR ASSEMBLY-7300 STR.			SSOL 5
WO20-1	48X48 16.00 4 64	2 ROAD/BRIDGE/RAMP WORK AHEAD	SPECIAL	48X48	16.00			50	G	DETOUR ASSEMBLY-7300 ADV. RT.	TEMPOR	RARY TRAFFIC CONTROL	MI EEN S 36
WO20-2	48X48 16.00 3 48	18 DETOUR AHEAD	SPECIAL	48X48	16.00	1	16	50	H [	DETOUR ASSEMBLY-7300 RT.	PAY TOTA	AL = 1 LUMP SUM	
WO20-3	48X48 16.00 3 48	20 ROAD CLOSED AHEAD	SPECIAL	48X48	16.00	1	16	50	) ] [	DETOUR ASSEMBLY-7300 ADV. LT.			RE IN A
WO20-4	48X48 16.00	ONE LANE ROAD AHEAD	SPECIAL	48X48	16.00	3	48	50	)][	DETOUR ASSEMBLY-7300 LT.			HON RA1
WO20-5	48X48 16.00 4 64	5 RIGHT/CENTER/LEFT LANE CLOSED AHEAD	SPECIAL	48X48	16.00	2	32	50	K [	DETOUR ASSEMBLY-8490 VEER RT.			ST. PI RPC
WO20-5a	48X48 16.00	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	SPECIAL	48X48	16.00	2	32	50	) L [	DETOUR ASSEMBLY-7300 VEER RT.			C 2
WO20-6a	48X48 16.00 2 32	6 RIGHT/CENTER/LEFT LANE CLOSED	616-10	.05			TOTAL						
WO20-7a	48X48 16.00	FLAGGER (SYMBOL)	CONSTR	UCTIO	N SIG	GNS	1179						
WO21-2	36X36 9.00	FRESH OIL	616-10	.10				TOTAL					Ŭ <b>La d</b>
WO21-5	48X48 16.00	SHOULDER WORK / SHOULDER WORK AHEAD	RELOCA	TED S	IGNS			0					
WO22-1	48X48 16.00	BLASTING ZONE AHEAD											
WO22-2	42X36 10.50	TURN OFF 2-WAY RADIO AND PHONE											
WO22-3	42X36 10.50	END BLASTING ZONE											
GO22-1	21X15   2.19	WET PAINT (ARROW PIVOTS)										JULEI Z UF Z	

![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_31_Figure_1.jpeg)

DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE. AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

GENERAL NOTES:

ANY EXISTING WARNING OR REGULATORY SIGNS (NOT SHOWN) THAT INTERFERE WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED, NO DIRECT PAY

ALL TRAFFIC CONTROL SIGNS ARE TO BE NON-PORTABLE UNLESS OTHERWISE NOTED.

SEE STANDARD PLANS 616.10, 903.01 AND 909.03 FOR ADDITIONAL DETAILS REGARDING TRAFFIC CONTROL HIGHWAY SIGNING.

TEMPORARY TRAFFIC CONTROL SIGN AND DEVICE LOCATIONS MAY BE ADJUSTED UPON APPROVAL OF THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCED WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE ENGINEER.

ANY RELOCATION OF SIGNS AND DEVICES FOR TRAFFIC CONTROL DEVICES OR SIGNS SHALL BE CONSIDERED INCIDENTAL. NO DIRECT PAY.

R11-2 SIGN ASSOCIATED WITH THE TYPE 3 MOVEABLE BARRICADES SHALL BE MOUNTED ON POST 7-10 FEET BEHIND THE BARRICADE.

ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.

![](_page_31_Figure_11.jpeg)

![](_page_31_Figure_12.jpeg)

TRAFFIC CONTROL SHEET 2 OF 6

![](_page_31_Figure_14.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_3.jpeg)

TRAFFIC CONTROL SHEET 3 OF 6

![](_page_33_Figure_0.jpeg)

![](_page_34_Figure_0.jpeg)

### MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC STRIPING

![](_page_35_Figure_2.jpeg)

![](_page_35_Figure_3.jpeg)

NOTES:

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

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

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

ADVANCED WARNING TRUCKS, FLASHING ARROW PANELS, TRUCK MOUNTED ATTENUATORS, AND SIGNS ARE INCIDENTAL TO PAVEMENT MARKINGS.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS 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) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

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![](_page_35_Figure_14.jpeg)

TRAFFIC CONTROL SHEET 6 OF 6


### U.I.P. AND REHABILITATE EXISTING (40'-61'-61'-43') CC



#### General Notes:

Design Specifications: 2002 AASHTO LFD (17th Ed.) Standard Specifications Bridge Deck Rating = 6

Design Loading:

H15-44 (1961)

Design Unit Stresses:

Class B-1 Concrete (Curb Blockouts) f'c = 4,000 psi

Class B-2 Concrete (Half-Sole Repairs & Deck Repair with Void Tube Replacement) f'c = 4,000 psi

Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

#### Concrete Protective Coating:

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous

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

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 new work.

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 the theore of wearing surface. thickness of wearing surface.

Curb repair and removal of existing handrails will be considered completely covered by the contract unit price for Curb Blockout.

The following locations shall be cleaned and sealed with Protective Coating -Concrete Bents and Piers (Epoxy):

- All exposed substructure concrete at the end bents
  Concrete barriers at the intermediate bents
- Exposed concrete columns of all intermediate bents to an elevation 15 feet above existing ground.

Traffic Handling:

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

	SEC/SUR 8	TWP 37N RGE	9W
ONTINUOUS CONCRETE VOIDED SLAB SPANS	(SKEW: 25° L.A.)		KEVIN J. BREHM PE-2010024490
Roadway Removal of Seal Coat Wearing Removal of 1 3/4" Latex Modified Concrete Total Surface Deck Repair Wearing Surface Hydro Demolition (Before hydro demolition) CHARTIC CONTRACT (Before hydro demolition) CONTSIDE SPECIAL REPAIR ZONES (POST-HYDRO DEMOLITION REPAIRS)	Curb Blockout Removal of Existing Handrail and Miscellaneous ACM (Non-Friable) (Typ.) Curb Edge Repair Cleaning & Epoxy Coating Limits of Cleaning and Epoxy Coating		DATE PREPARED 1/10/2025 ROUTE STATE CR8490 MO DISTRICT SHEET NO. BR 1 COUNTY PHELPS JOB NO. J5S3547 CONTRACT ID. PROJECT NO. BRIDGE NO. A16272
HRU EXISTING DECK			DATE DESCRIPTION
Estimated Quanti	ties		0 0 0 U
Item	Total		ATIC 4PITC 6510
Removal of Miscellaneous ACM (Non-Friable) Total Surface Hydro Demolition	sq. foot 20 sg. vard 646		DRT/ Mo Mo
Removal of Seal Coat or Polymer Wearing Surface	sq. foot 5817		ISPO 888
Removal of Existing Deck Repair	sq. foot 100		AN 201
* Supplementary Wearing Surface Material	cu.yard 5		ON LOSS
Diamond Grinding	sq. yard 646		AND SSI MODO
Curb Blockout	linear foot 438		
Half-Sole Repair	sq. foot 800		
Cleaning and Epoxy Coating	sq. foot 1719		
Cored Void Tube Weep Holes	each 236		
Protective Coating - Concrete Bents and Piers (Epc	xy) lump sum 1		
			Iğ   ∠ 🥲
			41 s
≮ Supplementary wearing surface material for monolit for at the fixed unit price in accordance with Sec	nıc deck repair will be paid 109.		HR GREEN. INC. 520 MARYVILLE CENTRE DRIVE. SUITE 100 57. LOUIS. MISSOURI 63141 PHONE: (636) 519.0990 CORPORATE LICENSE #2002006608
Sheet No. 1 of 5	REPAIRS TO BRIDGE: COUN OVER ROUTE I-44 COUNTY ROAD 8490 FROM ROUTE T TO R ABOUT 3.3 MILES WEST OF ROUTE T BEGINNING STATION 18+97.62± (Match	<b>TY ROAD 8490</b> OUTE C Existing)	HRGreen



Detailed Aug. 2024 Checked Aug. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 2 of 5

Dair Notes:			nun C	F	415	M.,	
xisting wearing surface plus 1/4" of deck.		Ĩ	K B	EVI RE	N J. HM		
sh deck to identify sound and unsound deck repair.			PE-2	010	0244	190	
pecial repair zones, complete the g repairs:		1	\$70 ••••	NA	LY	2	r
val of existing deck repair -sole repair -repair with void tube replacement		1	DATE	PR	EPAF	(ED	5
special repair zones, remove existing	CF		<u>ле</u> 49	0	2.0	STA M	
air. total surface bydro demolition removing		B	RICT		SF	IEET	· NC
imum of sound concrete inside special repair d removing 1/2" minimum of sound concrete deteriorated concrete outside special repair			PH		NTY LP NO.	s	
ck and if needed complete incidental removal.	E	(			54 CT	+ / ID.	
special repair zones, complete deck with void tube replacements.			BRI	IDG	EN		
w wearing surface including additional for areas of monolithic deck repair.	H		A1	62	27	2	
air Zones:							
s shall be completed before hydro demolition ical sequence beginning with Zone A. Zones me letter designation may be repaired at the Hydro demolition shall not move forward epairs in all special repair zones are nd properly cured.	<b>SCRIPTION</b>						
pair in areas not designated as a special shall be completed after hydro demolition.	ä						
deck repair shall be completed in one air zone and concrete shall have attained a strength of 3200 psi before work can be the next special repair zone.							
le repair area does not exceed 4 square feet	DATE						
does not exceed 12 square feet, the special may be repaired at the same time as an	NO					LOL	02
:	TATI					CAP I 1	0 651
sustained to the void tube as a result of tor's operations shall be patched or required by the engineer at the s expense.	<b>ANSPOR</b>					105 WEST	N CITY, M
void in the deck shall be patched as	I I I I I I I I I I I I I I I I I I I	NOIS				-	ERSON
e void area completely free of concrete. ching an exposed void will be considered covered by the contract unit price for Half- inside special repair zones and Monolithic outside special repair zones.	HWAYS AN	COMM I S	+ (	_ )			JEF.
riorated portion of the void tube is beyond	HIG		(	ל		₩	5
of the deteriorated void tube shall be he void area shall be maintained completely	DUR I	ſ		5			٢
crete. Cutting of the longitudinal steel will not be permitted. The fiber roducing the voids shall have an outside	11 SSC			_			J
bes and anchored at not more than the	2						
acing. Cost of replacing the void tube will ed completely covered by the contract unit eck Repair with Void Tube Replacement. will be borizontal projection of the area			RIVE.		53141 990	006608	
ube in plan.			NTRE [	0	519.0	#2003	
		NUD		ITE 10	MISSI	CENSE	
			אע ורר אע ורר	I N I		с сі сі сі сі сі	
			520 MAF	}	ST. LI	CORPORAT	
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					2	ŕ	





	KEVIN J. BREHM PE-2010024490									
	DATE PREPARED 1/10/2025 ROUTE STATE CR8490 MO DISTRICT SHEET NO. BR 4 COUNTY PHELPS JOB NO. J5S3547 COUNTY									
			PRO			NO.				
╞			А	16	27	/2				
DESCRIPTION										
DATE	1									
	MISSOURI HIGHWATS AND IKANSPOKIALION	COMM I SS I ON		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)		
			HK GREEN. INC. 520 MARYVILLE CENTRE DRIVE.	Sulte 100	ST. LOUIS. MISSOURI 63141	PHUNE: (636) 519.0990 CORPORATE   ICENSE #2002006608				
				Г ↑ †		HRGreen				



teel Totals (Pounds)										
Superstructure Entire Bridge										
		Slip								
ab	Barrier	Form	Plain	Epoxy						
) 2535 0 0 2535										
cing steel shall be epoxy coated										

	No	m.	Act	ual	
	Len	gth	Len	gth	Weight
in.	ft	in.	ft	in.	lb
	3	10	3	8	
	3	6	3	2	200
	з	10	3	8	275
	5	3	5	3	263
.00	4	8	4	8	39
	35	2	35	2	147
	43	9	43	9	730
	38	6	38	6	161
	8	3	8	3	413
	35	6	35	6	148
	38	2	38	2	159

and the second s		PE-	OF KEV BRE 2010	MI, EHM 0024	SS J. 1 1490		
CF	1 ROI ROI STIST	DAT / 1 JTE 4 9 RTC R		XEPA / 2 S		5 IO T NK	D.
		J 5 CON	ITRA	N0 35 кст	47 10	•	
		br A	1DG	E № 27	vo. 72		
DESCRIPTION							
DATE							
MISSOURI HIGHWAYS AND TRANSPORTATION	COMMISSION		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)
		HK GREEN, INC. 520 MARYVILLE CENTRE DRIVE.	SUITE 100	ST. LOUIS. MISSOURI 63141	PHONE: (636) 519.0990 CORPORATE   ICENSE #2002006608		
			Γ Υ †		HRGreen		



# INDEX OF SHEETS

OFMIC

INDEX OF	SHEETS	)		į	Ś	in the second second			20	È	
DESCRIPTION		SHE NUM	ET BER	A D K Com	F	AN 'E-2	JDR DA 2018	EA VIS 021	s. 250	See .	A State Stat
TITLE SHEET		1			ŝ	SI C		L		1	
TYPICAL SECTIONS (TS) (1	SHEET)	2				DATI	E PF	REPA	RED		
QUANTITIES (QU) (2 SHEETS	)	З			1	/ 2	1,	/2(	02	5	
PLAN SHEETS (PL)		4			κου	J			M	0	
TRAFFIC CONTROL SHEETS (T	C)	5 -	10		CISTR CI	ucı D	ſ	S	HEE	г NC 1	).
EROSION CONTROL SHEET		1	1			Pł	cou HE·	NTY LP	s		
BRIDGE DRAWINGS (B)						 15	IOB		48		
A16331		1 -	5		0	ON	TRA	CT	ID.		
						PRC	DIEG	сті	NO .		
						BR	IDG	E N	10.		
				DESCRIPTION							
				DATE			_		_		
LENGTH OF BEGINNING OF PROJECT END OF PROJECT APPARENT LENGTH	PROJEC LOG MILE 0 LOG MILE 0 39	CT .009 .084 6.00	FEET	JRI HIGHWAYS AND TRANSPORTATIO	COMM I SS I ON		10DOT		105 WEST CAPITC	JEFFERSON CITY, MO 6510	1-888-ASK-MODOT (1-888-275-6636
EQUATIONS AND EXCEPTIONS:				MISSOU		/	Σ 			]	
					HP CBFEN, INC	520 MARYVILLE CENTRE DRIVE.	SUITE 100	ST. LOUIS. MISSOURI 63141	PHUNE: (636) 213.0330 CORPORATE LICENSE #2002006608		
TOTAL CORRECTIONS NET LENGTH OF PROJECT STATE LENGTH	396 0.	0.0 .00 075	FEET FEET MILES			(			RGreen		
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES		0.0	ACRES						Í		

#### APPLICATION RATES:

BP-1 (PG64-22) 1.948 TON/CUYD COMPACTED MIXTURE TACK COAT 0.10 GAL/SQYD

DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



ALISON N GRAVES NUMBER PE-2011015778 BRAVES PE-2011015778 BRAVES NUMBER THIS SHEET HAS BEEN SIGNAL LAS BEEN SHEET HAS BEEN SHEET HAS BEEN										
DATE PREPARED 12/27/2024 ROUTE STATE J MO DISTRICT SHEET NO. CD 2 COUNTY										
_				LF NO 35 хст ст	48 10	-				
		BR	IDC	E I	vo.					
DESCRIPTION										
DATE						•				
MISSOURI HIGHWAYS AND TRANSPORTATION	COMMI SS I ON		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)			
		5220 Oakland Ave	St. Louis, MO 63110	(314) 863-5570		ate of Authority #2002006804				

TYPICAL SECTIONS SHEET 1 OF 1

	REMOVAL OF IMPROVEMENTS						
PLAN SHEET	LOG MILE	SIDE	DESCRIPTION	AMOUNT			
				LF			
4	0.032	LT	GUARDRAIL	87.5			
4	0.032	RT	GUARDRAIL	225.0			
4	0.065	LT	GUARDRAIL	87.5			
4	0.065	RT	GUARDRAIL	212.5			
			TOTAL	1 LUMP SUM			

				PAVEME	NT			
				BITUMINOUS	COLDMILLING BITUMINOUS	TACK		
PLAN	BEGIN	END		PAVEMENT MIXTURE	PAVEMENT FOR REMOVAL	COAT		
SHEET	LOG MILE	LOG MILE	SIDE	PG64-22 (BP-1)	OF SURFACING (3 IN. THICK OR LESS)			
				SY	SY	SY		
4	0.009	0.032	BOTH	395.7	395.7	395.7		
4	0.065	0.084	BOTH	319.7	319.7	319.7		
		SU	IBTOTAL	715.4	715.4	715.4		
				2" DEPTH				
				X 1.948 TONS/CY		X 0.10 GAL/SY		
				TONS	SY	GALLON		
	TOTAL 77.4 715 72							
UNDILUTE 0.10 FOR	D TACK COAT COLDMILLED	APPLICATION ASPHALT SURF	RATES PE ACES	R EPG TABLE 407.1.4 USED:	0.05 FOR NEW ASPHALT SURFACES,			

	GUARDRAIL										
				MGS BRIDGE APPR.	TYPE A	SHAPING					
PLAN	LOG	SIDE	MGS GUARDRAIL	GUARDRAIL SECTION	CRASHWORTHY END	SLOPES					
SHEET	MILE		6 FT. POSTS	(REGULAR/NO CURB)	TERMINAL (MASH)	CLASS III					
			LF	EA	EA	100F					
4	0.032	LT		1	1	1.2					
4	0.032	RT		1	1	1.2					
4	0.065	LT		1	1	1.2					
4	0.065	RT	125	1	1	2.4					
		TOTAL	125	4	4	6					
NOTE: GU	ARDRAIL LENG	THS DO NO	OT INCLUDE LENGTHS FOR	END, TERMINAL, ANCHOR OR	TRANSITION SECTIONS OR BU	JLLNOSE					

	PERMANENT PAVEMENT MARKING										
				WATERBORNE W/							
PLAN	BEGIN	END		4 INCH	4 INCH						
SHEET	LOG MILE	LOG MILE	SIDE	YELLOW	WHITE	REMARKS					
				LF	LF						
4	0.009	0.084	CENTER	792		DOUBLE SOLID YELLOW					
4	0.009	0.084	RIGHT		396	SOLID WHITE					
4	0.009	0.084	LEFT		396	SOLID WHITE					
			TOTAL	792	792						

	PERMANENT EROSION CONTROL										
	FURNISHING PLACING PERMANENT										
PLAN	LOG		TYPE 1	TYPE 1	EROSION CONTROL						
SHEET	MILE	SIDE	ROCK DITCH LINER	ROCK DITCH LINER	GEOTEXTILE						
			CY	CY	SY						
4	0.032	LT	3	3	16						
4	4 0.032 RT 3 3 13										
	TOTAL 6 6 29										

TEMPORARY EROSION CONTROL										
	SILT SEDIMENT									
PLAN	LOG	SIDE	FENCE	REMOVAL						
SHEET	ET MILE LF CY									
11	0.032	LT	105	1						
11	0.032	RT	110	1						
11	0.065	LT	100	1						
11	0.065	RT	200	2						
TOTAL 515 5										
NOTE: S 1 CY PER	NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK,									

## MOBILIZATION

TOTAL = 1 LUMP SUM

## RESTORE SLOPE

TOTAL = 1 LUMP SUM



SUMMARY OF QUANTITIES SHEET 1 OF 2

																EFFECTIVE: 07-01-2024	
			TOTAL QTY	TOTAL SIGN							QTY TOTAL	SIGN					OF MISS
	SIZE	AREA QTY	AREA RELOC	RELOC NUM.			SIZE	AREA	QTY	TOTAL	RELOCRELOC	NUM.					
SIGN	IN.	SQ.FT.EACH	H SQ.FT. EACH	SQ.FT.		SIGN	IN.	SQ.FT	EACH	SQ.FT.	EACH SQ.FT.			I TEM	TOTAL		🛪 ANDREA S. 🛪
		WAR	RNING SIGNS		DESCRIPTION				GUID	E SIG	NS		DESCRIPTION	NUMBER	QTY	DESCRIPTION	DAVIS
WO1-1L	48X48	16.00			TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24		49	GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00			TURN (SYMBOL RIGHT)	E05-2	48X36	12.00	2	24		48	EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00			CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00		10			EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	"Harristania
WO1 - 2R	48X48	16.00			CURVE (SYMBOL RIGHI)	6020-1	60X24	10.00	4	40		26	ROAD WORK NEXT XX MILES	6122012		IMPACE ATTENUATOR 55 MPH (SAND BARRELS)	DATE PREPARED
WO1-3L	48X48	16.00			REVERSE TURN (SYMBOL BIGHT)	G020-2	36X18	4 50	4	52		20	PILOT CAR FOLLOW ME	6122012	,	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	1/21/2025
WO1-4L	48X48	16.00			REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75					PILOT CAR IN USE WAIT & FOLLOW	6122019	1	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	ROUTE STATE
WO1-4R	48X48	16.00			REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50					PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	J MO
WO1-4bL	48X48	16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5a	9 36X24	6.00	4	24		54	WORK ZONE (PLAQUE)	6122030	•	IMPACT ATTENUATOR (RELOCATION)	CD 3
WO1-4bR	48X48	16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00					END DETOUR	6123001	1**	TRUCK MOUNTED ATTENUATOR (TMA)	COUNTY
WO1-4CL	48848	16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48836	12.00						6161013	4	BUOYS (BOATS KEEP OUT)	
WO1-6	60X30	12.50			HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	48X12	4.00					STREET NAME (PLAQUE)	6161012		BUOYS (NO WAKE)	J5S3548
WO1-6a	72X36	18.00			HORIZ ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00					DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	CONTRACT ID.
WO1-7	60X30	12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00					DETOUR ARROW (RIGHT)	6161025	118	CHANNELIZER (TRIM LINE)	
WO1-7a	72X36	18.00			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				REGU	LATOR	Y SIGNS			6161030	6	TYPE III MOVEABLE BARRICADE	· ·
WO1-8	18X24	3.00				R1-1	48X48	13.25						6161033	28	DIRECTION INDICATOR BARRICADE	BRIDGE NO.
WO1-8a	48X48	16.00			STOP AHEAD (SYMBOL)	R1-22	36X36	9 00					TO ONCOMING TRAFFIC (PLACUE)	6161040	4	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	36X48	12.00	4	48		4	SPEED LIMIT 60	6161070	·	TUBULAR MARKER	
WO3-4	48X48	16.00			BE PREPARED TO STOP	R2 - 1	36X48	12.00	4	48		25	SPEED LIMIT 70	6161095		RADAR SPEED ADVISORY SYSTEM	
WO3-5	48X48	16.00			SPEED LIMIT AHEAD	R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,	
WO4-1L	48X48	16.00			MERGE (SYMBOL FROM LEFT)	K3-2	48X48	16.00					NU LEFT TURN (SYMBOL)	6161096	·	COMMISSION FURNISHED/RETAINED	Ĕ
WO4-1R WO4-1al	48X48	16.00 2	32	64	MERGE (IFFT)	R3-4	48X48	9.00					NO U-TURN (SYMBOL)	6161098	4 2**	INTERFACE CONTRACTOR FURNISHED/RETAINED	STP ST
WO4-1aR	48X48	16.00 2	32	6B	MERGE (RIGHT)	R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN WITH COMM.	SCI .
WO5-1	48X48	16.00			ROAD/BRIDGE/RAMP NARROWS	R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED	
WO5 - 3	48X48	16.00			ONE LANE BRIDGE	R4 - 1	36X48	12.00					DO NOT PASS	6162000	4	WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO5 - 5	48X48	16.00			NARROW LANES	R4-2	36X48	12.00					PASS WITH CARE	6162002	:	TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-2	48X48	16.00			DIVIDED HIGHWAY (STMBOL)	R4-7a R4-8a	36X48	12.00					KEEP LEET (HORIZONTAL ARROW)	6173600		CONTRACTOR FURNISHED/RETAINED	
WO6-3	48X48	16.00			TWO WAY TRAFFIC (SYMBOL)	R5-1	30X30	6.25					DO NOT ENTER		-	TEMPORARY TRAFFIC BARRIER	
WO7-3a	30X24	5.00			NEXT XX MILES (PLAQUE)	R5-1a	36X24	6.00					WRONG WAY	6173602	в	CONTRACTOR FURNISHED/COMMISSION RETAINED	DAT
WO8 - 1	48X48	16.00			BUMP	R6-1L	54X18	6.75					ONE WAY ARROW (LEFT)	6174000	4	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-2	48X48	16.00				R6-1R	54X18	6.75					ONE WAY ARROW (RIGHT)	6175010	4	RELOCATING TEMPORARY TRAFFIC BARRIER	6) ON
WO8-4	48X48	16.00			SOFT SHOULDER	R6-2L R6-2R	24/30	5.00					ONE WAY (LEFT)		в	COMMISSION FURNISHED/RETAINED	TTI 6631 663
WO8-5	48X48	16.00			SLIPPERY WHEN WET (SYMBOL)	R9-9	24X12	2.00					SIDEWALK CLOSED			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	CA CA 75-
WO8-6	48X48	16.00			TRUCK CROSSING								SIDEWALK CLOSED AHEAD,	6177000	в	COMMISSION FURNISHED/RETAINED	POF ST 8-2
WO8-6c	48X48	16.00			TRUCK ENTRANCE	R9-11L	24X18	3.00					(ARROW LEFT) CROSS HERE	6208064	۹	TEMPORARY RAISED PAVEMENT MARKER	- 88 - 88
WO8-7	36X36	9.00			LOOSE GRAVEL	P0 11P	24 1 1 9	3 00					ADDOW DIGHT) COOSS HEDE	9029400		TEMPORARY TRAFFIC SIGNALS	ATRA ON (1 (1
WO8-7a	48X48	16.00			LOW SHOULDER	R10-6	24X36	6.00					STOP HERE ON RED (45^ ARROW)	9029401		TEMPORART TRAFFIC STONALS AND LIGHTING	D IOI DOT
WO8-11	48X48	16.00			UNEVEN LANES	R11-2	48X30	10.00	2	20		29	ROAD CLOSED				AN SS
WO8-12	48X48	16.00			NO CENTER LINE								ROAD CLOSED XX MILES AHEAD				
WO8-15	48X48	16.00			GROOVED PAVEMENT	R11-3a	60X30	12.50					LOCAL TRAFFIC ONLY				
WO8-15P	30X24	5.00			MOTORCYCLE (PLAQUE)	R11-4	60X30	12.50		0.0		F 2	ROAD CLOSED TO THRU TRAFFIC	_			15 X W 🖗
WO8-17L	48X48	16.00			SHOULDER DROP-OFF (STMBOL LEFT)	CONST-32	x 56X12	4 67	4	80		22	SPEEDING/PASSING (PLATE)				
WO8-17P	30X24	5.00			SHOULDER DROP-OFF (PLAQUE)		100/12		MISC	ELLAN	EOUS SIGNS			NOTE: S	IGN AND	DEVICE LOCATIONS WILL BE FIELD VERIFIED	
W10-1	42RND.	9.62			RAILROAD CROSSING	CONST-5	48X36	12.00					POINT OF PRESENCE	AND APP	ROVED B	THE ENGINEER.	
WO12-1	24X24	4.00			DOUBLE DOWN ARROW (SYMBOL)	CONST-5	96X48	32.00	2	64		61	POINT OF PRESENCE	4			
W012-2	48X48	16.00			LOW CLEARANCE (SYMBOL)	CONST-5	60X8	3.33	2	6.66		61A	POINT OF PRESENCE	ALL TRA	FFIC CON	NTROL IS INCLUDED IN PAY ITEM 616-99.01,	
W012-2X	24X18 84X24	3.00			OVERHEAD LOW CLEARANCE (FEET AND INCHES)		48836	16 00	4	48		55	DETOUR ASSEMBLY-N OUT STP		м і ЕМРОР SE тм тч	ART TRAFFIC CONTROL UNLESS NOTED	
WO12-4	120X60	50.00			LOW CLEARANCE XX FT XX IN XX MILES AHEAD	SPECIAL	48X48	16.00	,	- 1 2		50B	DETOUR ASSEMBLY-N OUT ADV. RT.	ESTIMAT	E AND AF	RE SUBJECT TO CHANGE BASED UPON	608 E
WO12-5	120X60	50.00			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL	48X48	16.00	1	16		50C	DETOUR ASSEMBLY-N OUT RT.	FIELD C		NS.	RIV 314 190 006(
WO13-1	30X30	6.25			ADVISORY SPEED (PLAQUE)	SPECIAL	48X48	16.00	1	16		50D	DETOUR ASSEMBLY-N OUT ADV. LT.				
WO16-2	30X24	5.00			XXX FEET (PLAQUE)	SPECIAL	48X48	16.00	2	32		50E	DETOUR ASSEMBLY-N OUT LT.	** NOT	INCLUDED	D IN LUMP SUM TRAFFIC CONTROL QUANTITY	1 NI 1 NI 5 15 #2
WO16-3	30X24	5.00	64			SPECIAL	36X60	15.00	9	135		50F	DETOUR ASSEMBLY-RTE J STR				EN. E 1 AI SS AI SS 36.) NSE
WO20-1	48X48	16.00 5	80	18	DETOUR AHEAD	SPECIAL	36X60	15.00	1	15		500 50H	DETOUR ASSEMBLY RTE J RT.	PAY TOT	AKI II	1 LUMP SUM	
WO20-3	48X48	16.00 6	96	20	ROAD CLOSED AHEAD	SPECIAL	36X60	15.00	1	15		501	DETOUR ASSEMBLY-RTE J ADV. LT.				RE L
WO20-4	48X48	16.00			ONE LANE ROAD AHEAD	SPECIAL	36X60	15.00	2	30		50 J	DETOUR ASSEMBLY-RTE J LT.				MAI HON DRAT
WO20-5	48X48	16.00 4	64	5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	SPECIAL	48X48	16.00	1	16		50K	DETOUR ASSEMBLY-N OUT VEER RT.	-			520 ST DRP(
WO20-5a	48X48	16.00	32	C	Z RIGHT/CENTER/LEFT LANE CLOSED AHEAD	SPECIAL	36X60	15.00	2			50L	DETOUR ASSEMBLY-RTE J VEER RT.				, S
WO20-6a	40748 48848	16.00 2	52	6	FLAGGER (SYMBOL)				GNS +	1276							
WO21-2	36X36	9.00			FRESH OIL	616-10	10				TOTAL						
WO21-5	48X48	16.00			SHOULDER WORK / SHOULDER WORK AHEAD	RELOCA	TED S	I GNS			0						
WO22-1	48X48	16.00			BLASTING ZONE AHEAD						_						
W022-2	42X36	10.50			IURN OFF 2-WAY RADIO AND PHONE											SUMMARY OF QUANTITIES	
WU22-3	42830 21815	2 19			WET PAINT (ARROW PIVOTS)											SHEET 2 OF 2	
			1														







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ANY EXISTING WARNING OR REGULATORY SIGNS (NOT SHOWN) THAT INTERFERE WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED,

ALL TRAFFIC CONTROL SIGNS ARE TO BE NON-PORTABLE

SEE STANDARD PLANS 616.10, 903.01 AND 909.03 FOR ADDITIONAL DETAILS REGARDING TRAFFIC CONTROL

LOCATIONS MAY BE ADJUSTED UPON APPROVAL OF THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCED WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE

ANY RELOCATION OF SIGNS AND DEVICES FOR TRAFFIC CONTROL DEVICES OR SIGNS SHALL BE CONSIDERED

R11-2 SIGN ASSOCIATED WITH THE TYPE 3 MOVEABLE BARRICADES SHALL BE MOUNTED ON POST 7-10 FEET

ALL WARNING SIGNS SHALL HAVE FLUORESCENT



TRAFFIC CONTROL SHEET 2 OF 6







TRAFFIC CONTROL SHEET 3 OF 6





\\hrgreen.com\hrg\Data\2024\2402262\CAD\Roadway\J553548\_RouteJ\Plan\_Sheets\08\_TC\_04\_J553548\_I1\_I44.dgn 11:50:18 AM 12/18/2024





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## MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC STRIPING





NOTES:

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

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

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

ADVANCED WARNING TRUCKS, FLASHING ARROW PANELS, TRUCK MOUNTED ATTENUATORS, AND SIGNS ARE INCIDENTAL TO PAVEMENT MARKINGS.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS 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) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

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TRAFFIC CONTROL SHEET 6 OF 6





Detailed Jun. 2024 Checked Aug 2024



bair	Notes:				-	Mission
pair: xistin deck	g wearing	surface pl	us 1/4" of		A KE	VIN J.
sh dec deck	k to iden repair.	tify sound	and unsound		PE-20.	EHM 10024490
pecial g repa val of	repair z irs: existing	ones, compl deck repai	ete the r		DATE	ALEARED
repai	r with vo repair	id tube rep	lacement		1 / 1 O ROUTE	/ 2025
specia air	l repair	zones, remo	ve existing		J DISTRICT BR	MO SHEET NO. 2
total imum o d remo deteri	surface f sound c ving 1/2" orated co	hydro demol oncrete ins minimum of ncrete outs	ition, removin ide special re sound concret ide special re	g pair e pair	ده PHI امر J5S	UNTY ELPS 3 NO. 3548
ck and remov	if neede al.	d complete	incidental		CONTR PRO JI	ACT ID.
specia g repa repai depth	l repair irs: r with vo repair	zones, comp id tube rep	lete the lacement		BRID A10	GE NO. 5331
w wear for a	ing surfa reas of m	ce includin onolithic d	g additional eck repair.			
air Zo	nes:		i na kada na sana		N	
s shal ical s me let Hydro epairs nd pro	l be comp equence b ter desig demolitio in all s perly cur	e areas des leted befor eginning wi nation may n shall not pecial repa ed.	e hydro demoli th Zone A. Zon be repaired at move forward ir zones are	tion es the	DESCRIPT	
pairi shall	n areasn be compl	ot designat eted after	ed as a specia hydro demoliti	l on.		
deck air zo stren the ne	repair sh ne and co gth of 32 xt specia	all be comp ncrete shal 00 psi befo I repair zo	leted in one I have attaine re work can be ne.	da.	DATE	
le rep the t does may b ne.	air area otal repa not excee e repaire	does not ex ir area wit d 12 square d at the sa	ceed 4 square hin a special feet, the spe me time as an	feet cial	SPORTATION	WEST CAPITOL -
sustai tor s requi s expe	ned to th operation red by th nse	e void tube s shall be e engineer	as a result o patched or at the	f	AND TRANS SSION	105 V EFFERSON CIT
void i the e e void ching covere insid outsi	n the dec ngineer i area com an expose d by the e special de specia	k shall be n a manner pletely fre d void will contract un repair zon l repair zo	patched as that shall e of concrete. be considered it price for H es and Monolit nes.	alf- hic	COMMI COMMI	
riorat f patc of th he voi crete steel	ed portio hing as d e deterio d area sh Cutting will not	n of the vo etermined b rated void all be main of the long be permitt	id tube is bey y the engineer tube shall be tained complet itudinal ed. The fiber	ond , ely		E
roduci th the bes an acing. ed com eck Re will ube in	ng the vo wall thi Cost of pletely c pair with be horizo plan.	ids shall h ckness the d at not mo replacing t overed by t Void Tube ntal projec	ave an outside same as the re than the he void tube w he contract un Replacement. tion of the ar	ill it ea	HR GREEN, INC. 520 MARYVILLE CENTRE DRIVE.	ST. LDUIS. MISSOURI 63141 PHONE: (636) 519.0990 CORPORATE LICENSE #2002006608
						HRGreen







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					48 1D NO.	•	
DESCRIPTION			10				
MISSOURI HIGHWAYS AND TRANSPORTATION DATE	COMMISSION		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)
		520 MARVIIIE CENTRE DRIVE	SUITE 100	ST. LOUIS. MISSOURI 63141	HRGreen PHONE: (636) 519.0990 CORPORATE LICENSE #2002006608		



g Steel Totals (Pounds)											
Superstructure Entire Bridge											
	Slip										
Slab	Barrier	Form	Plain	Ероху							
0 2360 0 0 2360											
nforcing steel shall be epoxy coated											

	No	m.	Act	ual	
	Len	gth	Len	gth	Weight
in.	ft	in.	ft	in.	۱b
	3	10	3	8	
	З	6	3	3	202
	3	10	3	8	275
	5	3	5	3	263
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	33	9	33	9	563
	36	10	36	10	307
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MISSOURI HIGHWAYS AND TRANSPORTATION	II SSOURI HIGHWAYS AND TRANSPORTATION DAT COMMISSION III COMMISSION IIII COMMISSION								
HR GREEN. INC. 520 MARYULLE CENTRE DRIVE. SUITE 100 ST. LOULS. MISSOURI 63141 PHONE: (636) 519.0990 CORPORATE LICENSE #2002006608									
			Г Υ †		HRGreen				



INDEX OF	SHEETS	5		ł	Ś	i internet	)F	MIS	SS O		ų.
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TITLE SHEET		1				STO	)N/	L.	5		
TYPICAL SECTIONS (TS) (1	SHEET)	2				DATI	E PF	EPA	RED		_
QUANTITIES (QU) (2 SHEETS	5)	3			1 ROL	/ 2 JTE	21;	20	)2 <sub>5т</sub> я	5 ATE	_
PLAN SHEET (PL)		4			E	) BICT	г	5	M		
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TOTAL CORRECTIONS		0 0	FEFT			1		1	Ч		
NET LENGTH OF PROJECT	51	7.4	FEET			(	Υ	l.	ě		
STATE LENGTH	0.	098	MILES			-		( 	ل ۲		
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES		0.0	ACRES						Ī		
STATUS STATUS PORCE		· · •		1							- 1

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#### APPLICATION RATES:

BP-1 (PG64-22) 1.948 TON/CUYD COMPACTED MIXTURE TACK COAT 0.10 GAL/SQYD

DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



	ALISON N. GRAVES NUMBER PE-2011015778 SIONAL ENGINE THIS SHEET HAS BEEN SIONAL ENGINE DATED FLEGTROMCALLY. DATE PREPARED 12/27/2024									
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		٩ ١	НЕ ЈОВ 5 S (	:LH NO 35	49					
		CON	ITRA	СТ	ID	•				
		BR	. IDC	CT 	NO.					
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DESCRIPTION										
ATE										
MISSOURI HIGHWAYS AND TRANSPORTATION	COMM I SS I ON		MODOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)			
		5220 Oakland Ave	St. Louis, MO 63110	(314) 863-5570		tificate of Authority #2002006804				

TYPICAL SECTIONS SHEET 1 OF 1

	REMOVAL OF IMPROVEMENTS										
PLAN SHEET	LOG MILE	SIDE	DESCRIPTION	AMOUNT							
				LF							
4	0.044	LT	GUARDRAIL	825							
4	0.044	RT	GUARDRAIL	575							
4	0.087	LT	GUARDRAIL	200							
4	0.087	RT	GUARDRA I L	200							
			TOTAL	1 LUMP SUM							

				PAVEMEI	NT	
				BITUMINOUS	COLDMILLING BITUMINOUS	TACK
PLAN	BEGIN	END		PAVEMENT MIXTURE	PAVEMENT FOR REMOVAL	СОАТ
SHEET	LOG MILE	LOG MILE	SIDE	PG64-22 (BP-1)	OF SURFACING (3 IN. THICK OR LESS)	
				SY	SY	SY
4	0.011	0.044	LT	607.7	608	608
4	0.087	0.109	RT	691.3	691	691
		SU	IBTOTAL	1299.0	1299	1299
				2" DEPTH		
				X 1.948 TONS/CY		X 0.10 GAL/SY
				TONS	SY	GALLON
			TOTAL	140.6	1299	130
UNDILUTE 0.10 FOR	D TACK COAT	APPLICATION ASPHALT SURF	RATES PE ACES	R EPG TABLE 407.1.4 USED:	0.05 FOR NEW ASPHALT SURFACES,	

	GUARDRAIL									
				MGS BRIDGE APPR.	TYPE A		SHAP I NG			
PLAN	LOG	SIDE	MGS GUARDRAIL	GUARDRAIL SECTION	CRASHWORTHY END	MGS END ANCHOR	SLOPES			
SHEET	MILE		6 FT. POSTS	(REGULAR/NO CURB)	TERMINAL (MASH)		CLASS III			
			LF	EA	EA	EA	100F			
4	0.044	LT	737.5	1	1	0	8.6			
4	0.044	RT	525.0	1	0	1	5.8			
4	0.087	LT	112.5	1	1	0	2.3			
4	0.087	RT	112.5	1	1	0	2.3			
		TOTAL	1488	4	3	1	19			
NOTE: GU	NOTE: GUARDRAIL LENGTHS DO NOT INCLUDE LENGTHS FOR END. TERMINAL. ANCHOR OR TRANSITION SECTIONS OR BULLNOSE									

PERMANENT PAVEMENT MARKING									
				WATERBORNE W/					
PLAN	BEGIN	END		4 INCH	4 INCH				
SHEET	LOG MILE	LOG MILE	SIDE	YELLOW	WHITE	REMARKS			
				LF	LF				
4	0.011	0.109	CENTER	995		DOUBLE SOLID YELLOW			
4	0.011	0.109	RIGHT		427	SOLID WHITE			
4	0.011	0.109	LEFT		427	SOLID WHITE			
			TOTAL	995	854				

	PERMANENT EROSION CONTROL								
			FURNISHING	PLACING	PERMANENT				
PLAN	LOG		TYPE 1	TYPE 1	EROSION CONTROL				
SHEET	MILE	SIDE	ROCK DITCH LINER	ROCK DITCH LINER	GEOTEXTILE				
			CY	CY	SY				
4	0.044	LT	4	4	16				
4	0.044	RT	4	4	16				
		TOTAL	8	8	32				

TEMPORARY EROSION CONTROL									
			SILT	SEDIMENT					
PLAN	LOG	SIDE	FENCE	REMOVAL					
SHEET	MILE		LF	CY					
11	0.044	LT	780	8					
11	0.044	RT	540	6					
11	0.087	LT	185	2					
11	0.087	RT	190	2					
TOTAL 1695 18									
NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK, 1 CY PER 100 FT OF SILT FENCE									

## MOBILIZ

## RESTORE

TOTAL = 1

TOTAL = 1 LUMP SUM

SLOPE								
LUMP	SUM							

t OF MISSO ALISON N. GRAVES PE-2011015778 BIONAL EVEN DATE DELECTRONCALY. DATE DELECTRONCALY. DATE PREPARED 12/27/2024									
	12/27·/2024 ROUTE STATE D MO								
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DESCRIPTION									
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DAT									
MISSOURI HIGHWAYS AND TRANSPORTATION	COMM I SS I ON		Modot		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)		
	M 5220 Oakland Ave. 51. Louis, MO 63110 (314) 863-5570 (314) 863-55700 (314) 863-557000 (314) 863-557000 (314) 863-557000 (314) 863-55700000000000000000000000000000000000								

SUMMARY OF QUANTITIES SHEET 1 OF 2

														EFFECTIVE: 07-01-2024	
	TOTAL QTY	TOTAL SIGN							QTY TOTAL	SIGN					SEOF MISS
SIZE AREA QT	Y AREA RELOC	RELOC NUM.			SIZE	AREA	QTY 1	TOTAL	RELOCRELOC	NUM.					
SIGN IN SQ FT EAG	CH SQ.FT. EACH	SQ.FT.		SIGN	IN.	SQ.FT	EACH	SQ.FT.	EACH SQ.FT.			I TEM	TOTAL		ANDREA S. 🖸
WA	RNING SIGNS		DESCRIPTION			I	GUIDE	E SIG	NS		DESCRIPTION			DESCRIPTION	
WO1-1L 48X48 16.00			TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24		49	GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	PE-2018021250
WO1-1R 48X48 16.00			TURN (SYMBOL RIGHT)	E05-2	48X36	12.00	2	24		48	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)	AL DINAL DINA
WO1-2R 48X48 16.00			CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	4	40		1	ROAD WORK NEXT 1 MILES	6122012	!	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-3L 48X48 16.00			REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	4	32		26	END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	DATE PREPARED
WO1-3R 48X48 16.00			REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50					PILOT CAR FOLLOW ME	6122017	·	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	ROUTE STATE
WO1-4L 48X48 16.00			REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75					PILOT CAR IN USE WAIT & FOLLOW	6122019	·	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	D MO
WO1-4k 48X48 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL LEET)	GO20-4a	16×12 36×24	6.00	4	24		54	WORK ZONE (PLACUE)	6122020		IMPACT ATTENUATOR (RELOCATION)	DISTRICT SHEET NO.
WO1-4bB 48X48 16 00			DOUBLE ARROW REVERSE CURVE (STMBOL BIGHT)	MO4-8a	24X18	3 00	4	24		54		612300	1**	TRUCK MOUNTED ATTENUATOR (TMA)	CD 3
WO1-4cL 48X48 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00					DETOUR (LEFT)	6161008	4	ADVANCED WARNING RAIL SYSTEM	PHEIPS
WO1-4cR 48X48 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R	48X36	12.00					DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)	JOB NO.
WO1-6 60X30 12.50			HORIZONTAL ARROW (SYMBOL)	MO4 - 9 P	48X12	4.00					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	J5S3549
WO1-6a 72X36 18.00			HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00					DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	CONTRACT ID.
WO1-7 60X30 12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00					DETOUR ARROW (RIGHT)	6161025	118	CHANNELIZER (TRIM LINE)	PROJECT NO
WO1-7a 72X36 18.00			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		1.0000	4.0	REGUI	LATOR	Y SIGNS		6702	6161030	6	TYPE III MOVEABLE BARRICADE	· KOJECT NO.
WO1-8 18X24 3.00			CHEVRON (SYMBOL)	R1-1	48X48	13.25					STOP	6161033	28	DIRECTION INDICATOR BARRICADE	BRIDGE NO.
WO2 1 49X49 10 00			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	K1-2	481RI.	0.93					TO ONCOMING TRAFFIC (PLACUE)	6161040	4	TLASHING AKKUW PANEL	·
WO3-2 48X48 16 00				R1-20	30830	9.00					ALL WAY (PLACUE)	616105		SEQUENTIAL ELASHING WARNING LIGHT	
WO3-3 48X48 16 00			SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12 00	4	48		4	SPEED LIMIT 60	6161070		TUBULAR MARKER	
WO3-4 48X48 16.00			BE PREPARED TO STOP	R2-1	36X48	12.00	4	48		25	SPEED LIMIT 70	616109		RADAR SPEED ADVISORY SYSTEM	
WO3-5 48X48 16 00			SPEED LIMIT AHEAD	R3-1	48X48	16.00	·				NO RIGHT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,	
WO4-1L 48X48 16.00			MERGE (SYMBOL FROM LEFT)	R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)	6161096		COMMISSION FURNISHED/RETAINED	
WO4-1R 48X48 16.00			MERGE (SYMBOL FROM RIGHT)	R3-3	36X36	9.00					NO TURNS			CHANGEABLE MESSAGE SIGN W/O COMM.	
WO4-1aL 48X48 16.00 2	32	6A	MERGE (LEFT)	R3-4	48X48	16.00					NO U-TURN (SYMBOL)	6161098	4 2 * *	INTERFACE - CONTRACTOR FURNISHED/RETAINED	
WO4-1aR 48X48 16.00 2	32	6B	MERGE (RIGHT)	R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN WITH COMM.	
WO5-1 48X48 16.00			ROAD/BRIDGE/RAMP NARROWS	R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT	6161099	·	INTERFACE - CONTRACTOR FURNISHED/RETAINED	
WO5-3 48X48 16.00			ONE LANE BRIDGE	R4 - 1	36X48	12.00					DO NOT PASS	6162000	4	WORK ZONE TRAFFIC SIGNAL SYSTEM	
W05-5 48X48 16.00			NARROW LANES	R4-2	36X48	12.00					PASS WITH CARE	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
W06-1 48X48 16.00			DIVIDED HIGHWAY END (SYMBOL)	R4-7a	36748	12.00					KEEP RIGHT (HORIZONTAL ARROW)			CONTRACTOR EURNISHED (RETAINED	
WO6-3 48X48 16 00			TWO WAY TRAFFIC (SYMBOL)	R5-1	30X30	6 25					DO NOT ENTER			TEMPORARY TRAFFIC BARRIER	
W07-3a 30X24 5.00			NEXT XX MILES (PLAOUE)	R5-1a	36X24	6.00					WRONG WAY	6173602	в	CONTRACTOR FURNISHED/COMMISSION RETAINED	ATE
WO8-1 48X48 16.00			BUMP	R6-1L	54X18	6.75					ONE WAY ARROW (LEFT)	6174000	4	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-2 48X48 16.00			DIP	R6-1R	54X18	6.75					ONE WAY ARROW (RIGHT)	6175010	4	RELOCATING TEMPORARY TRAFFIC BARRIER	
WO8-3 48X48 16.00			PAVEMENT ENDS	R6-2L	24X30	5.00					ONE WAY (LEFT)			TEMPORARY TRAFFIC BARRIER	I OI
WO8-4 48X48 16.00			SOFT SHOULDER	R6-2R	24X30	5.00					ONE WAY (RIGHT)	6176000	в	COMMISSION FURNISHED/RETAINED	AT API
WO8-5 48X48 16.00			SLIPPERY WHEN WET (SYMBOL)	R9-9	24X12	2.00					SIDEWALK CLOSED	_		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-6 48X48 16.00			TRUCK CROSSING		24740						SIDEWALK CLOSED AHEAD,	6177000	В	COMMISSION FURNISHED/RETAINED	SPC
W08-6c 48X48 16.00				R9-IIL	24X18	3.00					(ARROW LEFT) CROSS HERE	6208064	<u>م</u>	TEMPORARY RAISED PAVEMENT MARKER	ANS CIT
WO8-7 36X36 9.00			EDESH OLL / LOOSE CRAVEL	R9-11R	24818	3 00					(APPOW RIGHT) CROSS HERE	9029400	'	TEMPORARY TRAFFIC SIGNALS	
WO8-9 48X48 16 00			LOW SHOLL DER	B10-6	24×10	6.00					STOP HERE ON RED (45^ ARROW)	902940.		TEMPORART TRAFFIC STONALS AND LIGHTING	I OI SOT
WO8-11 48X48 16.00			UNEVEN LANES	R11-2	48X30	10.00	2	20		29	ROAD CLOSED	_			ANI MOI
WO8-12 48X48 16.00			NO CENTER LINE								ROAD CLOSED XX MILES AHEAD				
WO8-15 48X48 16.00			GROOVED PAVEMENT	R11-3a	60X30	12.50					LOCAL TRAFFIC ONLY				
WO8-15P 30X24 5.00			MOTORCYCLE (PLAQUE)	R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC				
WO8-17L 48X48 16.00			SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-3	60X48	20.00	4	80		53	FINE SIGN	μ			
WO8-17R 48X48 16.00			SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-3	q56X12	4.67					SPEEDING/PASSING (PLATE)				L
WO8-1/P 30X24 5.00			SHOULDER DROP-OFF (PLAQUE)		40820	12 00	MISCE	ELLAN	EUUS SIGNS		DOINT OF DESCENCE	NOTE: S	IGN AND	DEVICE LOCATIONS WILL BE FIELD VERIFIED	≝ [ <b>₹</b> /\\]
W012-1 24824 4 00			RAILKUAD CKUSSING DOUBLE DOWN ARROW (SYMBOL)		48836	32 00		64		61	POINT OF PRESENCE		KUVED B'	INE ENGINEEK.	S   <b>4 K</b>
WO12-2 48X48 16 00			LOW CLEARANCE (SYMBOL)	CONST-5	60X8	3 33	2	6 66		614	POINT OF PRESENCE		FEIC COM	ITROL IS INCLUDED IN PAY ITEM 616-99 01	
W012-2x 24X18 3.00			LOW CLEARANCE (PLAOUE)	CONST-8	48X36	12.00	4	48		55	WORK ZONE NO PHONE ZONE	LUMP SU	M TEMPOR	ARY TRAFFIC CONTROL UNLESS NOTED	2 4
WO12-2a 84X24 14.00			OVERHEAD LOW CLEARANCE (FEET AND INCHES)	SPECIAL	36X60	15.00	7	105		50A	DETOUR ASSEMBLY RTE D STR	OTHERWI	SE IN TH	E PLANS. THESE QUANTITIES ARE ONLY AN	_
WO12-4 120X60 50.00			LOW CLEARANCE XX FT XX IN XX MILES AHEAD	SPECIAL	36X60	15.00				50B	DETOUR ASSEMBLY-RTE D ADV. RT.	ESTIMAT	E AND AF	E SUBJECT TO CHANGE BASED UPON	ле . 11
WO12-5 120X60 50.00			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL	36X60	15.00	1	15		50C	DETOUR ASSEMBLY-RTE D RT.	FIELD C	ONDITION	IS.	RIV 314 390
WO13-1 30X30 6.25			ADVISORY SPEED (PLAQUE)	SPECIAL	36X60	15.00	1	15		50D	DETOUR ASSEMBLY-RTE D ADV. LT.	_			3.05 002
WO16-2 30X24 5.00			XXX FEET (PLAQUE)	SPECIAL	36X60	15.00	2	30		50E	DETOUR ASSEMBLY-RTE D LT.	** NOT	INCLUDED	) IN LUMP SUM TRAFFIC CONTROL QUANTITY	515 515
WO16-3 30X24 5.00	64		X MILE (PLAQUE)	SPECIAL	48X48	16.00	1	112		50F	DETOUR ASSEMBLY HOG H STR.				E 1 E 1 SS 1 SS 1 SS 1 SS 1 SS 1 SS 1 SS
WO20-1 48X48 16.00 4	64	10		SPECIAL	48848	16.00				50G	DETOUR ASSEMBLY HOG H ADV. RT.				SREE UIT (63 (63
WO20-3 48X48 16 00 4	64	20	ROAD CLOSED AHEAD		48848	16 00	1	16		501	DETOUR ASSEMBLY-HOG H ADV IT		~L <b>-</b>		U IS UIS
WO20-4 48X48 16.00		20	ONE LANE ROAD AHEAD	SPECIAL	48X48	16.00	2	32		501	DETOUR ASSEMBLY HOG H LT.	1			MAR LO. CONE
WO20-5 48X48 16.00 4	64	5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	SPECIAL	36X60	15.00	2	30		50K	DETOUR ASSEMBLY RTE D VEER RT.	1			ST SO I
WO20-5a 48X48 16.00			2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	SPECIAL	48X48	16.00	2	32		50L	DETOUR ASSEMBLY-HOG H VEER RT.	1			COF 5
WO20-6a 48X48 16.00 2	32	6	RIGHT/CENTER/LEFT LANE CLOSED	616-10	.05		1	TOTAL			-	_			
WO20-7a 48X48 16.00			FLAGGER (SYMBOL)	CONSTR	UCTIO	N SIG	NS 🗌	1198							
WO21-2 36X36 9.00			FRESH OIL	616-10	.10				TOTAL						j ja
WO21-5 48X48 16.00			SHOULDER WORK / SHOULDER WORK AHEAD	RELOCA	TED S	IGNS			0						ب الم
WU22-1 48X48 16.00			BLASTING ZONE AHEAD												
WO22-2 42X30 10.50			END BLASTING ZONE											SUMMARY OF OUANTITIES	
G022-1 21X15 2 19			WET PAINT (ARROW PIVOTS)											SHEET 2 OF 2	
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DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

#### NOTES:

ROUTE D DETOUR LENGTH: APPROX. 8.2 MILES HOG HOLLOW ROAD DETOUR LENGTH: APPROX. 7.0 MILES SEE NEXT SHEET FOR SIGN DETAILS

### <u>LEGEND</u>

- DETOUR ROUTE

---- INTERSTATE

- - - - NON-INTERSTATE ROAD

— - - — - RAILROAD





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ANY EXISTING WARNING OR REGULATORY SIGNS (NOT SHOWN) THAT INTERFERE WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED,

ALL TRAFFIC CONTROL SIGNS ARE TO BE NON-PORTABLE

SEE STANDARD PLANS 616.10, 903.01 AND 909.03 FOR ADDITIONAL DETAILS REGARDING TRAFFIC CONTROL

LOCATIONS MAY BE ADJUSTED UPON APPROVAL OF THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCED WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE

ANY RELOCATION OF SIGNS AND DEVICES FOR TRAFFIC CONTROL DEVICES OR SIGNS SHALL BE CONSIDERED

R11-2 SIGN ASSOCIATED WITH THE TYPE 3 MOVEABLE BARRICADES SHALL BE MOUNTED ON POST 7-10 FEET

ALL WARNING SIGNS SHALL HAVE FLUORESCENT

TRAFFIC CONTROL SHEET 2 OF 6



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TRAFFIC CONTROL SHEET 3 OF 6







## MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC STRIPING





NOTES:

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

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

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

ADVANCED WARNING TRUCKS, FLASHING ARROW PANELS, TRUCK MOUNTED ATTENUATORS, AND SIGNS ARE INCIDENTAL TO PAVEMENT MARKINGS.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS 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) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

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ANDREA S. DAVIS PE-2018021250									
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ROUTE STATE D MO									
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DATE									
MISSOURI HIGHWAYS AND TRANSPORTATION	COMM I S S I ON		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)		
		F20 MARVILLE CENTRE DRIVE	SUITE 100	I I I ST. LOUIS. MISSOURI 63141	HRGreen PHONE: (636) 519.0990				

TRAFFIC CONTROL SHEET 6 OF 6







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 new work.

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.

Curb repair and removal of existing handrails will be considered completely covered by the contract unit price for Curb Blockout.

The following locations shall be cleaned and sealed with Protective Coating -Concrete Bents and Piers (Epoxy): - All exposed substructure concrete at the end bents

- Concrete barriers at the intermediate bents - Exposed concrete columns of all intermediate bents to an elevation 15 feet above existing ground.

#### Traffic Handling:

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

left side similar.	End o		
	∗ Manufa		
Estimated Quantities			
Item			
Removal of Miscellaneous ACM (Non-Friable)	sq.		
Total Surface Hydro Demolition	sq.		
Removal of Seal Coat or Polymer Wearing Surface	sq.		
Removal of Existing Deck Repair	sq.		
Supplementary Wearing Surface Material	cu.		
Latex Modified Concrete Wearing Surface	sq.		
Diamond Grinding	sq.		
Curb Blockout	linear		
Half-Sole Repair	sq.		
Full Depth Repair	sq.		
Deck Repair with Void Tube Replacement	sq.		
Cleaning and Epoxy Coating	sq.		
Cored Void Tube Weep Holes	(		
Protective Coating - Concrete Bents and Piers (Epoxy)	lump		
Open Cell Foam Joint Seal	inear		

\* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

OVER ROUTE I-44 ROUTE D FROM ROUTE P TO ROUTE 28 ABOUT 3.3 MILES NORTH OF ROUTE P

shown.

Sheet No. 1 of 5










	Sa pros	PE-	OF KEV BRE 2010	MI IN L EHM 0024	550 1 1490		The state of the s				
	DATE PREPARED 1/10/2025 ROUTE STATE D MO DISTRICT SHEET NO. BR 4 COUNTY PHELPS JOB NO. J 55 35 4 9										
	CONTRACT ID. PROJECT NO. BRIDGE NO. A 16342										
DESCRIPTION					+ 2						
MISSOURT HIGHWAYS AND TRANSPORTATION DATE	COMMISSION		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)				
		HR GREEN, INC.	SUITE 100	ST. LOUIS, MISSOURI 63141	HRGreen CAPPONE: (636) 519.0990						



g Steel Totals (Pounds)											
Superstructure Entire Bridge											
Slip											
Slab	Barrier	Form	Plain	Ероху							
0 2477 0 0 2477											
nforcing steel shall be epoxy coated											

	No	m.	Act	ual	
	Len	gth	Len	gth	Weight
in.	ft	in.	ft	in.	۱b
	3	10	3	8	
	3	6	3	2	200
	3	10	3	8	275
	5	3	5	3	263
.00	4	8	4	8	39
	30	11	30	11	258
	9	9	9	9	488
	41	10	41	10	698
	30	8	30	8	256

"The second s		PE-	OF KEV BRE 2010	MT TN EHM 0024	SSC I. I 1490		AND
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	В	RIC R				т NC 5	
			JOB S	NO 35	49 10		
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		Α	16	34	12		
DESCRIPTION							
DATE							
MISSOURI HIGHWAYS AND TRANSPORTATION	COMM I SS I ON		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)
		HK GREEN. INC. 530 MARVVILLE CENTRE DRIVE	SUITE 100	ST. LOUIS. MISSOURI 63141	PHONE: (636) 519.0990 CODDDATE LICENSE #200200608		
			$\Gamma$		HRGreen		







THIS SHEET HAS BEE SIGNED. SEALED AND DE ELECTRONICALLY. 12/30/2024 BL-44 MO DISTRICT SHEET NO CD 2 COUNT PHELPS JOB NO J5S3563 CONTRACT ID. PROJECT NO BRIDGE NO. SS ION **OnSult** engineers 20 Hg CONSULT, INC. PRD. ENGINEER 201000587

EXIST. GROUND LINE

EXIST. GROUND LINE

## TYPICAL SECTIONS SHEET 1 OF 1

CLEARING AND GRUBBING 0.18 ACRE

PAY TOTALS: 1 ACRE

				REMOVAL OF IMPR	NOVEME	NTS		
SHEET	STA	STA	ROUTE	LOCATION	OFFSET	DESCRIPTION	UNITS	QUANTITY
4	878+99.66	879+76.42	BL - 44	WEST BRIDGE APPROACH	RIGHT	GUARDRA I L	LF	71
4	879+32.17	879+98.41	BL - 44	WEST BRIDGE APPROACH	LEFT	GUARDRA I L	LF	71
4	879+47.81	879+87.02	BL_44	WEST BRIDGE APPROACH	BOTH	PAVEMENT / SHOULDERS	SY	231.0
4	882+14.32	882+81.90	BL-44	EAST BRIDGE APPROACH	RIGHT	GUARDRA I L	LF	71
4	882+25.68	882+63.66	BL-44	EAST BRIDGE APPROACH	BOTH	PAVEMENT / SHOULDERS	SY	213.7
4	882+34.85	883+36.04	BL-44	EAST BRIDGE APPROACH	LEFT	GUARDRA I L	LF	97
								1 LUMP SUM

		C	ONCRET	E APPROACH PAVEMEN	Т						
						CONCRETE					
						APPROACH					
SHEET	OFFSET	PAVEMENT (1)									
						(SY)					
4 879+47.81 879+66.84 BL-44 WEST BRIDGE APPROACH BOTH 122.0											
4	4 882+45.69 882+63.66 BL-44 EAST BRIDGE APPROACH BOTH 113.0										
	PAY TOTALS 235.0										

(1) PLACEMENT OF 4" TYPE 5 AGGREGATE BASE AND <sup>3</sup>/<sub>4</sub>" JOINT FILLER IS INCLUDED IN THE CONTRACT UNIT PRICE FOR CONCRETE APPROACH PAVEMENT

		Т	EMPORA	RY PAVE	MENT MARKI	NG		
						4 - I N	4 - I N	REMOVAL
						SOLID	SOLID	AFTER
PHASE	STA	STA	ROUTE	LOCATION	OFFSET	WHITE	YELLOW	PHASE
						LF	LF	LF
1	878+10	883+59	BL-44	EB	BOTH	553		553
1	878+10	883+59	BL-44	EB	вотн		551	551
2	878+10	883+71	BL-44	EB	BOTH	585		585
2	878+10	883+59	BL-44	EB	BOTH		560	560
					PAY TOTALS:	1,138	1,111	2,249

			TEM	PORARY EROSION CON	TROL		
SHEET	STA	STA	ROUTE	LOCATION	OFFSET	SILT FENCE	SED IMENT REMOVAL
						(LF)	(CY)
14	878+10.81	879+89.23	BL-44	WEST BRIDGE APPROACH	RIGHT	179	2
14	878+65.66	880+11.40	BL-44	WEST BRIDGE APPROACH	LEFT	175	2
14	882+00 17	883+48.96	BL-44	EAST BRIDGE APPROACH	RIGHT	171	2
					PAY TOTALS:	525	6

		SEE	DING,	COOL SEASON MIX		
SHEET	STA	STA	ROUTE	LOCATION	OFFSET	SEEDING (AC)
4	878+11.21	879+73.24	BL-44	WEST BRIDGE APPROACH	RIGHT	0.1
4	878+67.98	879+98.09	BL-44	WEST BRIDGE APPROACH	LEFT	0.1
4	882+13.52	883+50.80	BL-44	EAST BRIDGE APPROACH	RIGHT	0.1
					SUBTOTAL	0.3
					PAY TOTALS	1.0

						MGS GUA	RDRAIL					
								MGS VERTICAL	BRIDGE ANCHOR	ASYMMETRICAL	ΤΥΡΕ Α	
							GUARDRAIL	CONCRETE	SECTION, 6.5' POSTS	TRANSITION	CRASHWORTHY	SHAPING
SHEET	STA	STA	ROUTE	LOCATION	OFFSET	MGS GUARDRAIL	TYPE A	<b>BARR I ER</b>	(SAFETY BARRIER	SECTION	END TERMINAL	SLOPES
								TRANSITION	CURB)	(6.5' POSTS)	MASH	CLASS III
						(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(STA)
4	878+68.44	879+75.96	BL-44	WEST BRIDGE APPROACH	RIGHT		31.5		1	1	1	1
4	879+04.81	879+97.35	BL-44	WEST BRIDGE APPROACH	LEFT	12.5		1			1	1
4	882+15.36	883+10.38	BL-44	EAST BRIDGE APPROACH	RIGHT	12.5		1			1	1
					PAY TOTALS:	25	32	2	1	1	3	3

					PAVE	MENT N	MARK I N	G			
						HIGH B	UILD WA	TERBORN	IE PAVE	MENT MARKI	NG PAINT, TYPE L BEADS
						4 - I N	4 - I N	24 - I N	24 - I N	YIELD	
SHEET	STA	STA	ROUTE	LOCATION	OFFSET	SOLID	SOLID	SOLID	SOLID	LINE	
						WHITE	YELLOW	YELLOW	WHITE	TRIANGLES	REMARKS
						(LF)	(LF)	(LF)	(LF)	(EA)	
14	878+10.00	883+85.00	BL-44	EB	RIGHT	589					DOUBLE YELLOW
14	878+10.00	883+60.00	BL-44	EB	RIGHT		1,108				
14	883+18.60	883+66.78	BL-44	EB	RIGHT				18		HASH MARKS, SPACED @ 25'
14	883+52.00		BL-44	EB	RIGHT					10	
14	879+13.02	883+18.18	BL-44	CTR	CTR			65			HASH MARKS, SPACED @ 50'
14	878+00.00	883+92.00	BL-44	WB	LEFT	628					
14	878+23.00	883+69.00	BL-44	WB	LEFT		1,108				DOUBLE YELLOW
14	878+31.00		BL-44	WB	LEFT					11	
					PAY TOTALS:	1,217	2,216	65	18	21	

CONTRACTOR FURNISHED SURVEYING AND STAKING

1 LUMP SUM

# SUMMARY OF QUANTITIES SHEET 1 OF 2

	PROMI THE	RE PE SS LEC DAT 2 /		IBERE IBERE	KER 846 AND ILLI RED ST.		
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		CON	ITRA	CT	ID	•	
-		PR	DIE	СТ	NO .		_
-		BR	IDO	E M	10.		
DESCRIPTION							
N DATE						02	9
MISSOURI HIGHWAYS AND TRANSPORTATIC	COMMI SS I ON		MoDOT		105 WEST CAPITC	JEFFERSON CITY, MO 6510	1-888-ASK-MODOT (1-888-275-6636
					engineers	planners	N. Wallace Ave.: Kansas City. MD 64158: (816)256-5153

												EFFECTIVE: 07-01-2024	_
тот	AL QTY TOTAL					TOTAL QTY	TOTAL						
SIZE AREA QTY AR	EA RELOC RELOC SIGN			SIZE	AREA	QTY AREA RELOC	RELOC	SIGN					
SIGN IN. SQ.FT EACH SQ.	FT EACH SQ FT NUM.	DECONTRACT	SIGN	IN.	SQ.FT.	EACH SQ.FT. EACH	SQ.FT.	NUM.		ITEM	TOTAL		<u> </u>
WARNING	G SIGNS	DESCRIPTION				GUIDE SIGNS			DESCRIPTION	NUMBER	QTY	DESCRIPTION	日言
WO1-1L 48X48 16.00		TURN (SYMBOL LEFT)	E05-1	36X48	3 12.00	1 12.00		49	GORE EXIT	6122008	2	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	1 1
WO1-1R 48X48 16.00		TURN (SYMBOL RIGHT)	E05-2	48X36	5 12.00				EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	1 3
WO1-2L 48X48 16.00		CURVE (SYMBOL LEFT)	E05-2a	48X36	5 12.00				EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2R 48X48 16.00		CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2 20.00		1	ROAD WORK NEXT XX MILES	6122010		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	- TI
WO1-3L 48X48 16.00		REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2 16.00		26	END ROAD WORK	6122012		IMPACT ATTENUATOR 53 MPH (SAND DARRELS)	SIGN
WO1-3B 48X48 16 00		REVERSE TURN (SYMBOL RIGHT)	6020-4	36X18	3 4 50				PLIOT CAR FOLLOW ME	6122014		IMPACE ATTENUATOR 60 MPH (SAND BARRELS)	┥┣──
WO1 41 48X48 16 00 1 16	00 15(L)	DEVERSE FORM (STABLE REAL)	6020 42	42830	9 9 75				PLIOT CAP IN USE WALT & FOLLOW	6122017		IMPACE ATTENUATOR 65 MPH (SAND BARRELS)	41
WO1 4D 48X48 16 00 1 16.	00 15(E)		6020-48	10112	1 50				PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	┧┝─╴
WO1-4R 48X48 16.00 1 16.	15(R)	REVERSE CURVE (STMBOL RIGHT)	GO20-4a	10/12	1.50	0 40 00		F 4	PILOT CAR IN USE WAIT & FOLLOW	6122020	5	REPLACEMENT SAND BARREL	- BI
WOI-46L 48X48 16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5a	P 36X24	6.00	8 48.00		54	WORK ZONE (PLAQUE)	6122030	2	IMPACT ATTENUATOR (RELOCATION)	
WO1-46R 48X48 16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8 a	24X18	3 3.00	2 6.00		52	END DETOUR	6123001	1*	TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-4cL 48X48 16.00		TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	5 12.00				DETOUR (LEFT)	6161008	4	ADVANCED WARNING RAIL SYSTEM	
WO1-4cR 48X48 16.00		TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R	48X36	5 12.00				DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)	11
WO1-6 60X30 12.50		HORIZONTAL ARROW (SYMBOL)	MO4 - 9 P	48X12	2 4.00				STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	
WO1-6a 72X36 18.00		HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00				DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-7 60X30 12.50		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00				DETOUR ARROW (RIGHT)	6161025	77	CHANNELIZER (TRIM LINE)	
WO1-7a 72X36 18.00		DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				REGULATORY SIG	ins			6161030	4		-
WO1-8 18X24 3.00		CHEVRON (SYMBOL)	R1-1	48X48	3 13.25				STOP	6161033	- - 10	DIRECTION INDICATOR RARRICADE	
WO1-8a 30X36 7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	B1-2	48TR I	12.5				YIELD	0101033	20	DIRECTION INDICATOR BARRICADE	-
WO3-1 48X48 16 00		STOP AHEAD (SYMBOL)	B1-2a	36X36	5 9 00				TO ONCOMING TRAFFIC (PLAQUE)	6161040	2	FLASHING ARROW PANEL	
W03-2 48X48 16 00		YIELD AHEAD (SYMBOL)	R1-3P	30212	2 50		+ +			0101047	-		- 1
W03-3 48X48 16 00		SIGNAL AHEAD (SYMBOL)	R2-1	36710	12 00	8 96 00	+ +	4 25	SPEED LIMIT (4 @ 50) (4 @ 60)	6161055	28	SEQUENTIAL FLASHING WARNING LIGHT	-  <b> </b>
WO3 4 40×40 16 00			D3 1	10040	2 16 00	3 30.00	+ +	т, 20	NO PICHT THEN (SYMPOL)	6161070	L	IUBULAR MARKER	<b>↓ ┃</b> │
WO2 E 40X40 10.00				40/48			+ +		NO LEET TUDN (SYMDOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
W03-5 48X48 16.00		STEED LIMIT AHEAD	KJ-2	48X48	10.00				NU LEFT TUKN (SYMBUL)			CHANGEABLE MESSAGE SIGN,	
WO4-1L 48X48 16.00		MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00				NU TURNS	6161096		COMMISSION FURNISHED/RETAINED	
WO4-1R 48X48 16.00		MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	3 16.00				NO U-TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN W/O COMM.	<u>[</u> 5]
WO4-1aL 48X48 16.00 1 16.	.00 6A	MERGE (LEFT)	R3-7L	30X30	6.25				LEFT LANE MUST TURN LEFT	6161098A	4*	INTERFACE - CONTRACTOR FURNISHED/RETAINED	
WO4-1aR 48X48 16.00 2 32.	.00 6A	MERGE (RIGHT)	R3-7R	30X30	6.25				RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.	
WO5-1 48X48 16.00		ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	3 12.00				DO NOT PASS	6161099		INTEREACE - CONTRACTOR EURNISHED/RETAINED	SC
WO5-3 48X48 16.00		ONE LANE BRIDGE	R4-2	36X48	3 12.00				PASS WITH CARE	61620004		WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO5-5 48X48 16.00		NARROW LANES	R4-7a	36X48	3 12.00				KEEP RIGHT (HORIZONTAL ARROW)	6162000		TEMPORARY LONG TERM PUMPIE STRIPS	
WO6-1 48X48 16.00		DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	3 12.00				KEEP LEFT (HORIZONTAL ARROW)	0102002		TEMPORARI LONG-TERM ROMBLE STRIFS	-
WO6-2 48X48 16 00		DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6 25	1 6 25		60	DO NOT ENTER	61726005	500*	TEMPORARY TRAFFIC BARRIER	
WO6-3 48X48 16 00		TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00	1 6 00		61	WRONG WAY	6173600L			4
WO7 32 30X24 5 00			R6 11	54119	6 75	1 0.00		01	ONE WAY APPOW (LEET)			TEMPORARY TRAFFIC BARRIER	
WOR 1 48X48 16 00				54X10	6 75				ONE WAY ADDOW (DICUT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED	_ <u>_</u>
W08-1 48X48 16.00				24710	0.75				ONE WAT ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
W08-2 48X48 16.00			R6-2L	24X30	5.00				ONE WAY (LEFT)	6175010A	400*	RELOCATING TEMPORARY TRAFFIC BARRIER	
W08-3 48X48 16.00		PAVEMENT ENDS	R6-2R	24X30	5.00				ONE WAY (RIGHI)			TEMPORARY TRAFFIC BARRIER	z
WO8-4 48X48 16.00		SOFT SHOULDER	R9-9	24X12	2 2.00				SIDEWALK CLOSED	6176000E		COMMISSION FURNISHED/RETAINED	Ī
WO8-5 48X48 16.00		SLIPPERY WHEN WET (SYMBOL)							SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	1 5
WO8-6 48X48 16.00		TRUCK CROSSING	R9-11L	24X18	3.00				(ARROW LEFT) CROSS HERE	6177000E		COMMISSION FURNISHED/RETAINED	Ě
WO8-6c 48X48 16.00		TRUCK ENTRANCE							SIDEWALK CLOSED AHEAD,	6208064A		TEMPORARY RAISED PAVEMENT MARKER	1 le
WO8-7 36X36 9.00		LOOSE GRAVEL	R9-11R	24X18	3.00				(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS	SP
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	1 10.00		29	ROAD CLOSED	6160001		WORK ZONE INTELLIGENT TRANSPORTATION SYS	1 1 2 .
WO8-11 48X48 16.00		UNEVEN LANES							ROAD CLOSED XX MILES AHEAD	6101000		DAVEMENT EDGE TREATMENT	1 2
WO8-12 48X48 16.00		NO CENTER LINE	R11-3a	60X30	12.50				LOCAL TRAFFIC ONLY	0191000		PAVEMENT EDGE TREATMENT	
W08-15 48X48 16 00		GROOVED PAVEMENT	R11-4	60X30	12 50				BOAD CLOSED TO THRU TRAFFIC				
W08-15P 30X24 5 00			CONST 3	4 60X48	3 20 00				FINE SIGN				- X
WO8 171 48X48 16 00		CHOULDER DROD OFF (SYMPOL LEFT)	CONST 3	V 56V12	20.00								₹8
WOR 17D 40X40 16 00				1 20/12			1		SILLDING/FA33ING (FLATE)				1 [윤]
W08-17R 48X48 10.00		SHOULDER DROF-OFF (SIMBOL RIGHT)				MISCELLANEOUS	SIGNS			* NOT	INCLUD	ED IN TEMPORARY TRAFFIC	Ĭ
W08-17P 30X24 5.00		SHOULDER DROP-OFF (PLAQUE)	CONST-5	48X36	5 12.00				POINT OF PRESENCE	CON	TROL -	1 LUMP SUM QUANTITY	
W9-3L 48X48 16.00			CONST-5	96X48	32.00	2 64.00		SP	POINT OF PRESENCE				Ц. Ц
W10-1 42RND. 9.62		KAILKUAD CKUSSING	CONST-8	48X36	5 12.00	2 24.00	+ +	5.5	WORK ZONE NO PHONE ZONE	ALL T	RAFFIC	CONTROL ARE INCLUDED IN PAY	13
W012-1 36X36 9.00		DOUBLE DOWN ARROW (SYMBOL)	SPECIAL	36X78	19 50	3 58.50	+ +	50A	DETOUR BL-44 WEST STRAIGHT		01 11NI⊑	UI, LUMP SUM LEMPORARY IRAFFIC	SS
WO12-2 48X48 16.00		LOW CLEARANCE (SYMBOL)	SPECIAL	36879	19 50	1 19 50	+ +	50R	DETOUR BI -44 WEST NEXT RIGHT	THESE	QUANTI	TIES ARE ONLY AN ESTIMATE AND ARE	Ī
W012-2x 24X18 3.00		LOW CLEARANCE (PLAQUE)	SPECIAL	36870	10 50	2 30 00	+ +	500	DETOUR BL -44 WEST RIGHT	SUBJE	ст то с	HANGE BASED UPON FIELD CONDITIONS.	Ē
WO12-2a 84X24 14.00		OVERHEAD LOW CLEARANCE (FEET AND INCHES)	SPECIAL	36710	10 50	2 30.00	+ +	500	DETOUR BL -44 WEST LEET				
WO12-4 120X60 50.00		LOW CLEARANCE XX FT XX IN XX MILES AHEAD	SPECIAL	30//0	19.50	2 39.00		500	DETOUR BL-44 WEST DIAC DT				
WO12-5 120X60 50.00		WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL	12010	19.50	2 39.00		SUE	DETOUR BL-44 WEST DIAG. RT.				
WO13-1 30X30 6.25 1 6.1	25 44	ADVISORY SPEED (PLAQUE)	SPECIAL	138854	4 51.75	3 155.25		50F	BL-44 WEST CLOSED AHD. USE DET.				
WO16-2 30X24 5.00		XXX FEET (PLAQUE)	SPECIAL	84x24	14.00	2 28.00		G	CLOSED		T	TEMPORARY TRAFFIC CONTROL	
WO16-3 30X24 5.00		X MILE (PLAQUE)									P/	AY IUIAL = 1 LUMP SUM	
WO20-1 48X48 16.00 9 144	.00 2	ROAD/BRIDGE/RAMP WORK AHEAD											
WO20-2 48X48 16.00 3 48	.00 56	DETOUR AHEAD											
WO20-3 48X48 16 00		ROAD CLOSED AHEAD											
WO20-4 48X48 16 00		ONE LANE ROAD AHEAD											1
W020-5 48X48 16 00 4 64	00 5												
WO20 52 40X40 16 00 4 04		2 DIGHT/CENTED/LEET LANES CLOSED AUGAD											
WO20 62 40X40 16 00 2 22	00	Z NIGHT/CENTER/LEFT LANE CLOSED AREAD											
$w_{020}$ $\overline{a}$ $48 \overline{x} 48$ $10.00$ 2 32.		NIGHT/CENTER/LEFT LANE CLUSED											
w020-7a 48X48 16.00		FLAGGER (STMBUL)											
WU21-2 36X36 9.00		FRESH UIL											
WO21-5 48X48 16.00		SHOULDER WORK / SHOULDER WORK AHEAD	616 10	05	1		-		J			SUMMARY OF QUANTITIES	
WO22-1 48X48 16.00		BLASTING ZONE AHEAD		, 05 1107 14									
WO22-2 42X36 10.50		TURN OFF 2-WAY RADIO AND PHONE					TOTAL	** ••	DIRECT DAY WILL DE MORE FOR		OF	SHEET 2 UF 2	
WO22-3 42X36 10.50		END BLASTING ZONE		, 1U TED 7				^^ N	ONSTRUCTION STONING OF DEVICES	LUCATION	UF		PRO
W024-1aR 48X48 16.00		DOUBLE REVERSE CURVE, RIGHT, 2 LANE	HRELUCA		21012			C	Services starting on Devices.				

ERC J ERC J REINKEMEYER REINKEMEYER NUMBER NUMBER NUMBER NAL NAL NAL NOTE NOTE L-44 MO DATE PREPARED 1/29/2025 ROUTE SHEET NO. CD 3 COUNTY PHELPS JOB NO. JSS563 CONTRACT ID. PROJECT NO. BRIDGE NO. 105 WEST CAPITOL EFFERSON CITY, MO 65102 :-MODDT (1-888-275-6636) Σ Consult Inc engineers planners ssc cty. WD 641581 - 0161256 - 5153 Hg CONSULT, INC, • ENGINEER 201000587;

NW COR. BR. A1259 INSTALL 1 TYPE A C.E.T. (MASH), FLARED AT 25:1 INSTALL 12 5' MGS GUARDRAIL, TANGENT INSTALL 1 MGS VERTICAL CONCRETE BARRIER TRANSITION

SW COR BR A1259 INSTALL 1 TYPE A C.E.T. (MASH), FLARED AT 25:1 INSTALL 31.5' GUARDRAIL TYPE A, 31" HEIGHT, CURVED (R=100') INSTALL BRIDGE ANCHOR SECTION, 6.5' POSTS (SAFETY BARRIER CURB), W/ ASYMETRICAL TRANSITION SECTION, 6.5 POSTS

SE COR. BR. A1259 INSTALL 1 MGS VERTICAL CONCRETE BARRIER TRANSITION INSTALL 12.5' MGS GUARDRAIL, TANGENT INSTALL 1 TYPE A C.E.T. (MASH), FLARED AT 25:1



## J5S3563 - BRIDGE A1259 TRAFFIC CONTROL PHASING

#### PHASE 1

CLOSE WB BL-44 BEFORE BRIDGE.

DETOUR WB TRAFFIC VIA I 44 EB TO US 63, NORTH ON US 63 TO I 44 WB, TO BL 44. MAINTAIN EB BL-44 TRAFFIC IN EB LANE WHILE THE WB SIDE OF THE BRIDGE IS REHABILITATED.

#### PHASE 2

WB BL-44 REMAINS CLOSED BEFORE BRIDGE.

DETOUR REMAINS FOR WB TRAFFIC VIA I-44 EB TO US-63, NORTH ON US-63 TO I-44 WB, TO BL-44.

SHIFT EB BL-44 TRAFFIC INTO NEWLY REHABILITATED WB LANE BEFORE BRIDGE TO REHABILITATE EB SIDE. SHIFT TRAFFIC BACK INTO EB LANE AFTER BRIDGE, BEFORE EAST ROUNDABOUT.

#### PHASE 3

CLOSE I-44 EB AND WB INSIDE LANES AT THE SAME TIME FOR SLAB EDGE REPAIR, SUPERSTRUCTURE REPAIR, AND EPOXY SEALING. (MAY OCCUR INDEPENDENTLY FROM PHASES 1 AND 2.)

#### PHASE 4

CLOSE I-44 EB AND WB OUTSIDE LANES SEPERATELY FOR SLAB EDGE REPAIR, SUPERSTRUCTURE REPAIR, AND EPOXY SEALING. RAMP ACCESS TO REMAIN OPEN AT ALL TIMES. (MAY OCCUR INDEPENDENTLY FROM PHASES 1 AND 2.)













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OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET

DEPENDING ON ROADWAY CONDITIONS. THE 48IN. X 36IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN

;	n 66.500	<b>t</b> 72.875	<b>s</b> 77.625	
)	<b>2</b> 81.875	<b>6</b> 87.000		

## TRAFFIC CONTROL TYPICAL APPLICATIONS BEGIN/END OF PROJECT SIGNING SHEET 5 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 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.

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## NOT TO SCALE

ERIC J REINKEMEYER THIS SHEET HAS BEEN SIGNED, SEALED AND DATE ELECTRONICALLY. 12/30/2024 BL-44 MO SHEET NO CD 10 COLIN PHELPS LOB NO J5S3563 CONTRACT ID PROJECT NO. BRIDGE NO 102 102 ζŞ AYS AND TR **CONSULT InC** engineers 20 Hg CONSULT, INC. PRO. ENGINEER 201000587

TRAFFIC CONTROL TYPICAL APPLICATIONS TWO-LANE STRIPING OPERATIONS SHEET 6 OF 9



TWO-LANE DIVIDED HIGHWAY

SPEED

(MPH)

0-35

40

45

50**-**55

60-70

SIGN SPACING (FT)

SA-1000, SB-1500, & SC-2640

UNDIVIDED

(S)

-

DIVIDED

(S)

200'

500'

500'

1000'

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CHANNELIZER SPACING

BUFFER/WORK AREAS

50'

100'

100'

100'

100'

TAPERS

35'

40'

45'

50'

60'

CENTER

LANE

CLOSED

AHEAD

WO20-5

5

WORK

ZONE

GO20-5aP

(54)

OPTIONAL

BUFFER LENGTH (FT)

(B)

250'

305

360'

495'

730'

TAPER LENGTH (FT)

12' LANE

(L)

245

320'

540'

660'

840'

SHOUDLER

(T1)

70'

90'

150'

185'

235'

10

LEFT

OR

RIGHT

FLASHING

ARROW PANEL

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(6)



NUMBER 9E-200600284 VONAL THIS SHEET HAS BEEN SIGNED, SEALED AND DATE ELECTRONICALLY. 12/30/2024 STATE ROUTE BL-44 MO DISTRICT SHEET NO CD 1·1 COUNT PHELPS JOB NO J5S3563 CONTRACT ID PROJECT NO. BRIDGE NO. 10L ပ်ိမ္မႈ ĭ ⊥ × WAYS AND TR COMMISSION **CONSULT Inc** engineers 20 

Hg CONSULT, INC. PRO. ENGINEER 201000587

ERIC J REINKEMEYER



WORK IN THE VICINITY OF AN EXIT RAMP



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NOTES:

SEE TABLE BELOW FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES. FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

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

FIVE CHANNELIZER DEVICE MINIMUM.

SPEED	SIGN SP.	ACING (FT)	TAPER LE	NGTH (FT)	OPTIONAL BUFFER	CHANNELIZER SPACING					
(MPH)	UNDIVIDED (S)	DIVIDED (S)	10' SHOUDLER (T1)	12' LANE (L)	LENGTH (FT) (B)	TAPERS	BUFFER/WORK AREAS				
0-35	-	200'	70'	245 '	250 '	35 '	50 '				
40	-	500'	90'	320'	305 '	40 '	100 '				
45	-	500'	150'	540'	360'	45'	100 '				
50-55	-	1000'	185'	660'	495 '	50'	100 '				
60-70	SA-1000, SB-15	500, & SC-2640	235 '	840'	730 '	60 '	100 '				

# TRAFFIC CONTROL TYPICAL APPLICATIONS WORK IN VICINITY OF EXIT RAMP SHEET 8 OF 9













## TRAFFIC CONTROL TYPICAL APPLICATIONS SHOULDER WORK SHEET 9 OF 9

(4). PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.











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SEC/SUR 10	TWP	37N	RGE	8W	In the second second	OF MISS
Removal of Existing Deck Repair (Before hydro demolition) Curb Repair 2'-6" Limits and Epo	CI & Co of Cle xy Coa	— Exis (Do Epoxy ating aning ting —	ting Co not dis	nduit turb)	THIS S SIGNED C. DATE 1/1 ROUTE BL - 4 DISTECT BR CONT J J J S CONT	COUNTY COUNTY
					BRI	IDGE NO.
					A	12592
Quantities Quantities iers (Epoxy) monolithic deck i with Sec 109. not been field ve	epair rified	sq. sq. cu. sq. sq. sq. sq. sq. sq. sq. sq. sq. sq	yard C foot 1 foot yard yard C yard Yard C yard C yard C foot foot foot foot C foot foot C foot foot C foot	Total 1,240 1,158 165 5 252 1 1,240 40 25 25 100 1,450 50 100 50 2,200 712 100 1 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	IGHWAYS AND TRANSPORTATION DATE DESCRIPTION COMMISSION	1-888-ASK-MODOT (1-888-275-6636)
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Cost of concrete and reinforcing steel, complete in place, will be considered completely covered by the contract unit price for Type B Barrier (Tapered).

\* Bend #5-K9 in field to fit barrier

Use a minimum lap of 2'-7" between K8 and

Barrier dimensions at end of bridge slab shall match existing barrier on bridge.

For details of approach slab, see Sheet No.

Concrete traffic barrier delineators shall be placed on top of the safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators and Th accordance with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier (Tapored)





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#### General Notes:

Contractor shall construct the concrete slab.

The contractor shall pour and satisfactorily finish the bridge slab wearing surface before placing the bridge approach slab.





Detailed Nov. 2024 Checked Nov. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 6 of 7 G:\Shared drives\Hg Projects (Yr 2023-2024)\2024\24.037 J553563 Bridge Rehab BL-44 (MoDOT)\Civil\Bridge Sheet Files\B\_A12592\_006\_Barbill\_1.dgn 10:59:36 AM 1/10/2025

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10 5 R4 7 5 R5	Barrier Barrier	E 27S E 20	4 9.000	5.750	11.625	2,500		9.500	6.750	1 8 4 9	1 6 4 9	16 35														DATE PREPARED
5 5 R6	Barrier	E 25S	12.000	17.000				14.000	10.000	2 5	2 4	12														1 / 10 / 2025
8 5 K1	Barrier	E 19S	2 5.000	5.500	17.005	10.750		17.500	0.500	2 11	2 9	23														BL-44 MO
8 5 K2 44 5 K3	Barrier	E 385	19.000	5.000	17.625	8.500	4.500	17.500	2.500	2 9 4 9	4 5	203														BR 7
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4 5 K7	Barrier	E 20	12 11.000							12 11	12 11	54														CONTRACT ID.
8 5 K8 8 5 K9	Barrier Barrier	E 20 E 14	15 0.000	2 8.000	4 8.375			7.000 4	8.000	15 0 7 4	15 0 7 4	125 61														PROJECT NO.
34 5 K10	Barrier	E 195 2	2 4.250	5.500						2 10 1 6	2 9 1 5	72														BRIDGE NO.
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For bendir	g diagrams and ste	eel reir	forcing	totals, s	ee Sheet	No. 6.			F	3111	OF	RFIN	JFO	RCIN	G STEFI		,	V = Sets dime	of varions v	ed bars and r ary in equal	number of b increments	ars of eac between d	h length imension	ı. Bar ıs shown	on this	Hg CONSULT, INC. PRD, ENGINEER 20100058
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