DESIGN DESIGNATION

A.A.D.T. - 2025 = 18,405 A.A.D.T. - 2045 = 21,290D.H.V. = 10% V = 45 M.P.H.

D = 49%/51% FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NO RIGHT OF WAY TO BE ACQUIRED

CONVENTIONAL SYMBOLS

(OSED IN FEANS	• /	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000	••••
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FO OTV UTV OT UT OE UE SS G - W W OW - OW - OW - OW -	-FO -OTV -UTV -OT - UT - OE - UE - S - SS - G - W
MANHOLE	SAN (HYD)
FIRE HYDRANT	wv C	3
WATER VALVE	"`Œ)
WATER METER	" ")
DROP INLET	"[
DITCH BLOCK	=	⊨
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		-
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	—— V —— X	·—
BENCHMARK	ВМ)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

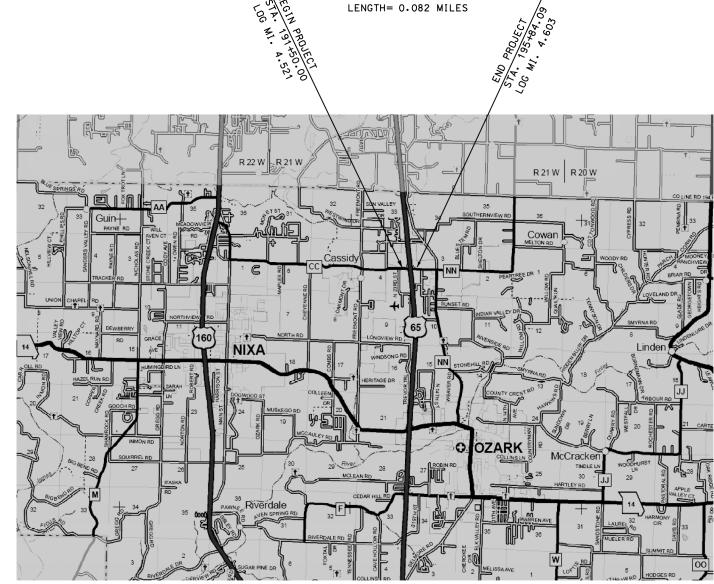
PLANS FOR PROPOSED

CHRISTIAN COUNTY

JOB NO. J8S3245 ROUTE CC/J GRADING, DRAINAGE, PAVING, SIGNING, & BRIDGE REHAB

STATE HIGHWAY SECTIONS 3 & 4 T27N R21W





NOT TO SCALE

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
PLAN-PROFILE (PP)	4
COORDINATE POINTS (CP)	5
TRAFFIC CONTROL SHEETS (TC)	6-12
SIGNALS (SG)	13
SIGNING (SN)	14-17
PAVEMENT MARKING (PM)	18
BRIDGE DRAWINGS (B)	
A38601	1 - 3
CROSS SECTIONS (XS)	1

NAMER PETZ-CVVL ENGNEER MOF PE-2017019023						
7 /	20					
Т				ο.		
RI	ST	IA۱	1			
383	324	15				
NTR	ACT	. 10	٥.			
OJE	СТ	NO	•			
RID	GE	NO.				
	PENUM PONAL PET COU RISTORY	PEITZ NUMBER PEITZ	PEITZ NUMBER 2017019023 OMAL EMPTH 2017019023 7 / 2 0 2 5 T SHE EVEN 201701902 7 / 2 0 2 5 T SHE EVEN 201701902 RISTIAN JOB NO. 383245 NTRACT IE	PEITZ NUMBER 2017019023 PEITZ-ONL ENGINE IN PE		

LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 191+50.00 STA. 195+84.09 END OF PROJECT

434.09 FEET APPARENT LENGTH

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS

STATE LENGTH

NET LENGTH OF PROJECT

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES



0.082 MILES

0.00 FEET

0.1 ACRES

434.09 FEET

ASPHALT FACT	ORS
MATERIAL	TONS/CY
SP125C, PG 64-22	1.927



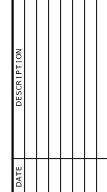
4/10/2025

CC/J MO SHEET NO SW

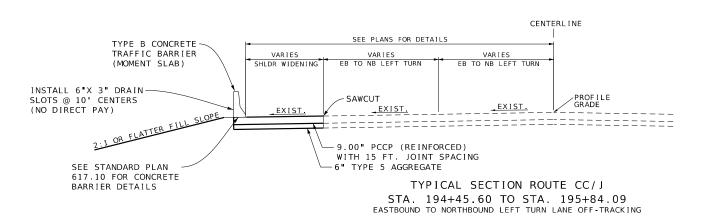
CHRISTIAN

J8S3245 CONTRACT ID.

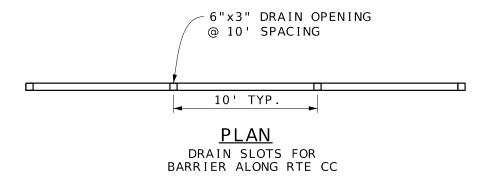
PROJECT NO.

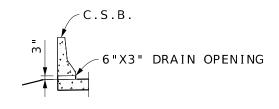






SPECIAL DETAIL





PAVEMENT						
SHEET	STA.	STA.	LOCATION	9" PCCP	6" TYPE 5	
				(REINFORCED)	AGGREGATE BASE	
				(SY)	(SY)	
4	194+48.70	195+15.37	ROUTE CC LT	227.1	227	
5	195+43.25	195+84.09	ROUTE CC LT			
4	195+43.25	195+84.09	ROUTE CC LT			
			TOTALS	227.1	227	

SEEDING AND MULCH						
SHEET	STA.	STA.	LOCATION	COOL SEESON GRASS	TEMP.	MULCHING
NO.				SEEDING	SEED	
				(AC)	(AC)	(AC)
4	194+45.56	195+00.00	ROUTE CC LT	0.1	0.1	0.2
			TOTALS	0.1	0.1	0.2

TEMPORARY EROSION CONTROL						
SHEET	STA.	STA.	LOCATION	SILT	EROSION	SED.
NO.				FENCE	CONTROL	REM.
					BLANKET	
					TYPE 3B	
				(FT)	(SY)	(CY)
4	194+45.56	195+00.00	ROUTE CC LT	207	56	2
			TOTAL	207	56	2

	EARTHWORK							
STA.	STA.	LOC.	UNCLASSIFIED	COMPACTING	COMPACTING	REMARKS		
			EXCAVATION	EMBANKMENT	IN CUT			
			(CY)	(CY)	(STA)			
194+50.00	196+68.77	ROUTE CC LT	191	10	2.2			
		TOTALS	191	10	2.2			

	REMOVAL OF IMPROVEMENTS							
SHEET	STA.	STA.	LOCATION	DESCRIPTION				
14	186+98.20		ROUTE CC RT	OVERHEAD SIGNS				
4	194+48.70	195+20.21	ROUTE CC LT	163' GUARDRAIL				
4	194+48.70	195+15.37	ROUTE CC LT	221' SAWCUT				
4	194+48.70	195+15.37	ROUTE CC LT	165 SY PAVEMENT				
4	194+63.87		ROUTE CC LT	OVERHEAD SIGNS				
4	195+47.86		ROUTE CC LT	1 SIGN, 1 POST				
4	195+43.30	195+84.09	ROUTE CC LT	96 SY CONCRETE MEDIAN				
4	195+59.66	195+84.09	ROUTE CC LT	56' SAWCUT				
1 LUMP	SUM							

STAMPED AND TINTED CONCRETE MEDIAN STRIP						
SHEET	STA.	STA.	LOCATION	8"		
				MED I AN		
				(SY)		
4	195+57.85	195+84.09	ROUTE CC LT	12.4		
			TOTALS	12.4		

CONCRETE BARRIER							
SHEET	STA.	STA.	LOCATION	TYPE B			
				BARRIER			
				(MOMENT SLAB)			
				(LF)			
4	194+45.60	195+10.88	ROUTE CC LT	207			
			TOTALS	207			

PAVEMENT MARKING REMOVAL						
STA.	STA.	LOCATION	PAVEMENT	REMARKS		
			MARK I NG			
			REMOVAL			
			(LF)			
194+49.78	195+69.80	ROUTE CC	600			
8+16.87	10+07.86	RAMP 1	225			
TOTALS 825						

	CONTRACTOR FURNISHED
MOBILIZATION	SURVEYING & STAKING
 1 LUMP SUM	1 LUMP SUM

						PAVEMENT MA	ARK I NG					
STA.	STA.	LOCATION	HIGH BUILD	WATERBORNE ACR	RYLIC PAINT, T	YPE L BEADS*		PREF		REMARKS		
			6" YELLOW	6" WHITE	12" SOLID WHITE	ISLAND MARKINGS FACE & TOP WHITE (14" STRIPE)	24" WHITE	"ONLY" TEXT	LEFT-THRU ARROW	LEFT/RIGHT ARROW	12" YIELD LINE TRIANGLES WHITE	
			(L.F.)	(L.F.)	(L.F.)	(L.F.)	(L.F.)	(EA.)	(EA.)	(EA.)	(EA.)	
191+78	193+03	ROUTE CC		41								DOTTED
191+81	193+66	ROUTE CC		47								INTERMITTENT
191+81	194+49	ROUTE CC	268									EDGE LINE
192+70		ROUTE CC						1				"ONLY"
193+03	194+52	ROUTE CC		149								LANE LINE
193+11		ROUTE CC								1		LT. TURN
193+14		ROUTE CC							1			THRU/LT. TURN
193+66	195+71	ROUTE CC		206								LANE LINE
194+33		ROUTE CC						1				"ONLY"
194+35		ROUTE CC							1			THRU/LT. TURN
195+01	195+49	ROUTE CC		16								DOTTED WHITE
195+49	195+73	ROUTE CC		24								EDGE LINE
195+69	195+73	ROUTE CC					30					STOP BAR
8+16	8+84	RAMP 1	68									EDGE LINE
8+34	8+87	RAMP 1		53								LANE LINE
8+84	9+67	RAMP 1	167									EDGE LINE
8+87	9+80	RAMP 1		400								LANE LINE
8+87	9+80	RAMP 1			28							CHEVRON
9+66	10+07	RAMP 1		67								EDGE LINE
9+74		RAMP 1									9	YIELD MARKINGS
9+66	10+07	RAMP 1				56						MEDIAN MARKINGS
						1					_	
TOTAL			503	1003	28	56	30	2	2	1	9	

*SEE PAVEMENT MARKING PAINT REQUIREMENTS FOR STANDARD WATERBORNE AND TEMPORARY JSP FOR HIGH BUILD ACRYLIC PAINT INFORMATION



4/10	/2025						
ROUTE	STATE						
CC/J	MO						
DISTRICT	SHEET NO.						
SW	3						
COUNTY							
CHRISTIAN							
JOE	NO.						
J8S3245							
CONTR	ACT ID.						
PROJE	CT NO.						

		 -	110.	
DESCRIPTION				
١TE				

SSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MODOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102



	SIZE	AREA	TOTAL QTY TOTAL QTY TOTAL QTY AREA RELOCK	ELOC NUM.				QTY TOTAL	RELOC		- 1		ITEM TO	TAL	EFFECTIVE: 07-01-2024	WHITE
SIGN	IN.	SQ.FT.	EACH SQ FT EACH S		SIGN	IN.	SQ.FT.	EACH SQ.FT				DESCRIPTION	NUMBER Q		DESCRIPTION	OF MIS
WO1-1L	10710	16.00	WARNING SIC	TURN (SYMBOL LEFT)	E05-1	26740	12.00		IDE SIC	GNS		GORE EXIT	6122008		MPACT ATTENUATOR 40 MPH (SAND BARRELS) MPACT ATTENUATOR 45 MPH (SAND BARRELS)	NATHAN WAYN
WO1 - 1E		16.00		TURN (SYMBOL RIGHT)	E05-2		12.00				-	EXIT OPEN	6122010		MPACT ATTENUATOR 43 MFH (SAND BARRELS)	//alf4-7-2025
WO1 - 2L	_	16.00		CURVE (SYMBOL LEFT)	E05-2a	48X36					_	EXIT CLOSED	6122012		MPACT ATTENUATOR 55 MPH (SAND BARRELS)	NUMBER PE-2010005587
WO1 - 2R	48X48	16.00		CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2.00 20.00			1	ROAD WORK NEXT XX MILES	6122014	IM	MPACT ATTENUATOR 60 MPH (SAND BARRELS)	AND NALLEN
WO1-3L		16.00		REVERSE TURN (SYMBOL LEFT)	GO20-2	_		5.00 40.00		2	_	END ROAD WORK	6122017		MPACT ATTENUATOR 65 MPH (SAND BARRELS)	"mininim"
WO1 - 3R	_	16.00		REVERSE TURN (SYMBOL RIGHT)	GO20 - 4	36X18					-	PILOT CAR FOLLOW ME	6122019		MPACT ATTENUATOR 70 MPH (SAND BARRELS)	DATE PREPARE
WO1-4L WO1-4R		16.00		REVERSE CURVE (SYMBOL LEFT) REVERSE CURVE (SYMBOL RIGHT)	GO20-4a GO20-4a	_						PILOT CAR IN USE WAIT & FOLLOW PILOT CAR IN USE WAIT & FOLLOW	6122020 6122030		EPLACEMENT SAND BARREL MPACT ATTENUATOR (RELOCATION)	4/7/202 ROUTE S
WO1 -4bL	_	16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20 - 5a						_	WORK ZONE (PLAQUE)	6123001		RUCK MOUNTED ATTENUATOR (TMA)	ROUTE S'
WO1-4bR	48X48	16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8a	24X18	3.00					END DETOUR	6161008	AD	DVANCED WARNING RAIL SYSTEM	DISTRICT SHEE
WO1-4cL	48X48			TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4 - 9L	48X36						DETOUR (LEFT)	6161012		JOYS (BOATS KEEP OUT)	SW
WO1-4cR		16.00		TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R	_	12.00				_	DETOUR (RIGHT)	6161013		JOYS (NO WAKE)	COUNTY CHRISTIA
WO1 - 6	60X30 72X36			HORIZONTAL ARROW (SYMBOL)	MO4 - 9P MO4 - 10L	48X12						STREET NAME (PLAQUE)	6161014 6161025 6		PECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	JOB NO.
WO1-6a WO1-7		12.50		HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	1	48X18 48X18					_	DETOUR ARROW (LEFT) DETOUR ARROW (RIGHT)			HANNELIZER (TRIM LINE) /PE III MOVEABLE BARRICADE	J8S3245
WO1 - 7a	72X36			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	101	40/10	1 0.00	REGUL	ATORY	SIGNS		BETOOK AINON (KTOITT)	6161033		IRECTION INDICATOR BARRICADE	CONTRACT ID
WO1-8	18X24			CHEVRON (SYMBOL)	R1-1	48X48	13.25					STOP	6161040		ASHING ARROW PANEL	PROJECT NO
WO1-8a	30X36	7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93					YIELD	6161047	TY	YPE III OBJECT MARKER	
WO3 - 1	48X48			STOP AHEAD (SYMBOL)	R1-2a		9.00				_	TO ONCOMING TRAFFIC (PLAQUE)	6161055		EQUENTIAL FLASHING WARNING LIGHT	BRIDGE NO.
WO3 - 2		16.00		YIELD AHEAD (SYMBOL)	R1-3P		2.50				_	ALL WAY (PLAQUE)	6161070		JBULAR MARKER	
WO3 - 3 WO3 - 4		16.00		SIGNAL AHEAD (SYMBOL) BE PREPARED TO STOP	R2-1 R3-1		12.00				_	SPEED LIMIT XX NO RIGHT TURN (SYMBOL)	6161095		ADAR SPEED ADVISORY SYSTEM HANGEABLE MESSAGE SIGN.	
WO3-4 WO3-5		16.00		SPEED LIMIT AHEAD	R3-2		16.00					NO LEFT TURN (SYMBOL)	6161096		DMMISSION FURNISHED/RETAINED	
WO4 - 1L		16.00		MERGE (SYMBOL FROM LEFT)	R3-3		9.00					NO TURNS			HANGEABLE MESSAGE SIGN WITHOUT COMM.	
WO4 - 1R	48X48	16.00		MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00					NO U-TURN (SYMBOL)	6161098A	IN	NTERFACE - CONTRACTOR FURNISHED/RETAINED	
WO4-1aL	48X48	16.00		MERGE (LEFT)	R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT		_Λ CH	HANGEABLE MESSAGE SIGN WITH COMM.] <u>[</u>
WO4-1aR		16.00		MERGE (RIGHT)	R3 - 7R		6.25					RIGHT LANE MUST TURN RIGHT	6161099		NTERFACE - CONTRACTOR FURNISHED/RETAINED	
WO5 - 1	_	16.00		ROAD/BRIDGE/RAMP NARROWS	R4-1		12.00				_	DO NOT PASS	6162000A		ORK ZONE TRAFFIC SIGNAL SYSTEM	
WO5 - 3 WO5 - 5		16.00		ONE LANE BRIDGE NARROW LANES	R4 - 2 R4 - 7a	_	12.00				_	PASS WITH CARE KEEP RIGHT (HORIZONTAL ARROW)	6162002		EMPORARY LONG-TERM RUMBLE STRIPS EMPORARY TRAFFIC BARRIER	
WO6 - 1		16.00		DIVIDED HIGHWAY (SYMBOL)	R4-8a	_	12.00				-	KEEP LEFT (HORIZONTAL ARROW)	6173600D		DNTRACTOR FURNISHED/RETAINED	
WO6 - 2		16.00		DIVIDED HIGHWAY END (SYMBOL)	R5 - 1	_	6 25					DO NOT ENTER			EMPORARY TRAFFIC BARRIER	
WO6 - 3	48X48	16.00		TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00				,	WRONG WAY	6173602B	co	ONTRACTOR FURNISHED/COMMISSION RETAINED	
WO7-3a	30X24	5.00		NEXT XX MILES (PLAQUE)	R6-1L	54X18					- 1	ONE WAY ARROW (LEFT)	6174000A	TE	EMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8 - 1		16.00		BUMP	R6-1R	54X18						ONE WAY ARROW (RIGHT)	6175010A		ELOCATING TEMPORARY TRAFFIC BARRIER	ATE
WO8 - 2 WO8 - 3		16.00		DIP	R6 - 2L R6 - 2R	24X30 24X30					_	ONE WAY (DICHT)	6176000B		EMPORARY TRAFFIC BARRIER	
WO8 - 3		16.00		PAVEMENT ENDS SOFT SHOULDER	R9-9	24X30 24X12					_	ONE WAY (RIGHT) SIDEWALK CLOSED	6176000B		DMMISSION FURNISHED/RETAINED EMP. TRAFFIC BARRIER HEIGHT TRANSITION	Z ,
WO8 - 5		16.00		SLIPPERY WHEN WET (SYMBOL)	11.5 5	1 1/12	2.00					SIDEWALK CLOSED AHEAD,	6177000В		DMMISSION FURNISHED/RETAINED	101.
WO8 - 6		16.00		TRUCK CROSSING	R9-11L	24X18	3.00					(ARROW LEFT) CROSS HERE	6208064A		EMPORARY RAISED PAVEMENT MARKER	IA S
WO8-6c	48X48	16.00		TRUCK ENTRANCE								SIDEWALK CLOSED AHEAD,	9029400	TE	EMPORARY TRAFFIC SIGNALS	, A
WO8 - 7	36X36	1		LOOSE GRAVEL	R9-11R	24X18					_	(ARROW RIGHT) CROSS HERE	9029401		EMPORARY TRAFFIC SIGNALS AND LIGHTING	ISP
WO8 - 7a	36X36			FRESH OIL / LOOSE GRAVEL	R10-6	24X36		3 00 30 00		2		STOP HERE ON RED (45^ ARROW)	6205301B 15	576 PR	REFORMED REMOVABLE MARKING TAPE 4 IN. WHITE	A Y
WO8 - 9 WO8 - 11		16.00		LOW SHOULDER UNEVEN LANES	R11-2	48830	10.00	2.00 20.00				ROAD CLOSED XX MILES AHEAD				F S
WO8 - 12	-			NO CENTER LINE	 R11-3a	60X30	12.50					LOCAL TRAFFIC ONLY				SS 10
WO8 - 15				GROOVED PAVEMENT	41	60X30						ROAD CLOSED TO THRU TRAFFIC				
WO8 - 15P	30X24	5.00		MOTORCYCLE (PLAQUE)	CONST - 3	A 60X48	20.00					FINE SIGN				HIGHWAYS COMMI
WO8 - 17L				SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 3	X 56X12	4.67					SPEEDING/PASSING (PLATE)				Į≩ŭ U
WO8 - 17R	-			SHOULDER DROP-OFF (SYMBOL RIGHT)	CONCT	0.67/40	22.00			SSIGNS) - I	DOAD IMPROVEMENTS				
WO8 - 17P W10 - 1		9.62		SHOULDER DROP-OFF (PLAQUE) RAILROAD CROSSING	CONST-7		32.00	1.00 32.00		8		ROAD IMPROVEMENTS RATE OUR WORK ZONE				
WO12-1				DOUBLE DOWN ARROW (SYMBOL)		_	12.00	2.00 24.00		5		WORK ZONE NO PHONE ZONE				
WO12 - 2				LOW CLEARANCE (SYMBOL)	SPECIAL	36X60	15.00	7.00 105.00				*DETOUR SIGN RTE J STRAIGHT				MISSOUR I
W012-2x	24X18	3.00		LOW CLEARANCE (PLAQUE)	SPECIAL	36X60	15.00	5.00 75.00		60	0B *	DETOUR SIGN RTE J 45° RIGHT				15.
WO12-2a	-			OVERHEAD LOW CLEARANCE (FEET AND INCHES)		_		3.00 45.00			_	DETOUR SIGN RTE J 90 ADV LEFT				Σ ν
WO12-4				LOW CLEARANCE XX FT XX IN XX MILES AHEAD				2.00 30.00				*DETOUR SIGN RTE J 90 LEFT				
WO12-5 WO13-1		50.00		WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	-			2.00 30.00				*DETOUR SIGN RTE J 90 ADV RIGHT				4 2
WO13-1 WO16-2	-	5.00		ADVISORY SPEED (PLAQUE) XXX FEET (PLAQUE)		_		1.00 15.00 2.00 18.00				*DETOUR SIGN RTE J 90 RIGHT ON RAMP				
	30X24			X MILE (PLAQUE)	1	30,30	3.00	1.55 15.50		3 a	-, -					Sult
WO20 - 1			3.00 48.00	2 BRIDGE WORK AHEAD		1										W &
WO20-2			4.00 64.00	18 DETOUR AHEAD												ā
WO20-3		16.00		ROAD CLOSED AHEAD												ono
WO20-4			1.00 16.00	ONE LANE ROAD AHEAD	616 13) 05		TOT	1							
WO20-5			1.00 16.00	5 CENTER LANE CLOSED AHEAD	616-10		N EICN	TOTAL	1 1							Ü.
			1.00 16.00 1	5a 2 LEFT LANES CLOSED AHEAD 6 LEFT LANE CLOSED	616-10	RUCTION	א אוטול א	S 614.00		TOTAL						0-
WO20-0a				FLAGGER (SYMBOL)	RELOCA		I GNS		}	0						
WO21-2		9.00		FRESH OIL												
WO21-5				SHOULDER WORK / SHOULDER WORK AHEAD												
WO22-1		16.00		BLASTING ZONE AHEAD												
WO22-2				TURN OFF 2-WAY RADIO AND PHONE	_							SEE TRAFFIC CONTROL PLANS FOR				
-	-	10.50		END BLASTING ZONE WET PAINT (ARROW PIVOTS)	_							ETAILS FOR SPECIFIC NUMBER OF E IGNS NEEDED, AS SHOWN IN THE DE		IE5	QUANTITIES SHEET	
GO22-1																

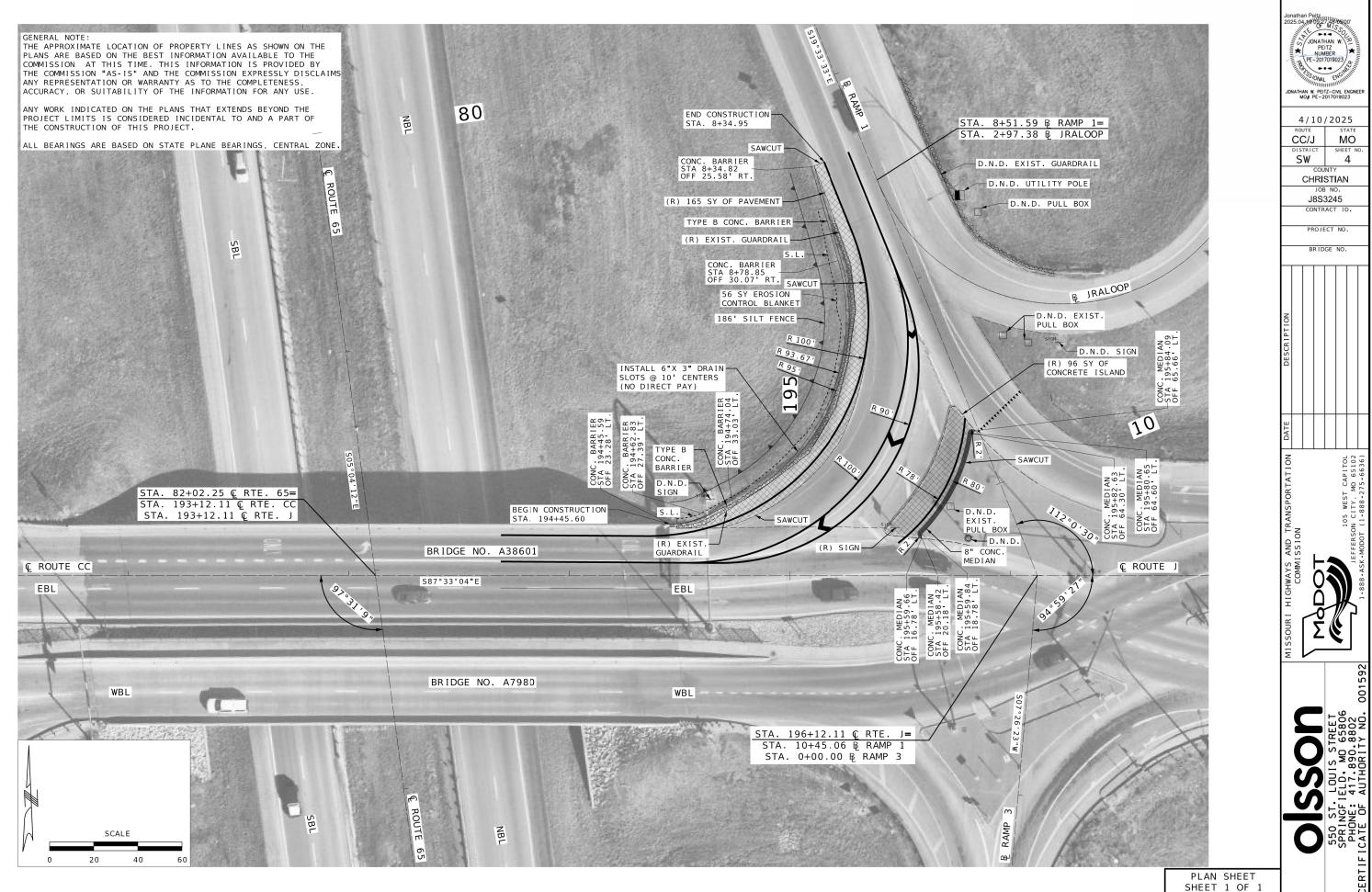
QUANTITIES SHEET SHEET 2 OF 2



NTY STIAN NO. 5245







ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDI	NATE INFORMATION				
COORDINATE SYSTEM	M MODIFIED STATE PLANE				
HORIZONTAL DATUM	NAD83				
VERTICAL DATUM	NAVD88				
GEOID MODEL	GEOID 18				
ELEVATIONS					
	GPS				
DETERMINED BY					
PROJECT PROJECTION	ON FACTOR 1.000067593				
REFERENCE CONTROL INFORMATION					
COORDINATE SYSTEM	M MISSOURI STATE PLANE				
CONTROL STATION	MODOT GNSS				
DESIGNATION	MODOT SPRINGFIELD CORS ARP				
CORS_ID	MOSF				
PID	DL5388				
LATITUDE	37°14'30.33454 "				
LONGITUDE	93°13'47.54333"				
NORTHING (M)	156530.8730				
EASTING (M)	435242.8820				
ZONE	CENTRAL				
PROJECT AVERAGE (GRID FACTOR 0.99993241				
EXAMPLE OF PRO	DIECT COORDINATE TO S.P.C.				

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT # 6 N 451232.1402 X .99993241 = N 451201.6414 E 1426706.5221 X .99993241 = E 1426610.0910

LINEAR UNIT CONVERSION
1 METER = 3.2808333333 US SURVEY FEET (USFT)

				COC	ORDINATE POIN	T LISTING	
				MODIFIE	D STATE PLANE (GROUND)	
			OFFSET	NORTHING	EASTING	ELEVATION	
SHEET NO	STATION	LOCATION	(USFT)	(US SURVEY FT)	(US SURVEY FT)	(US SURVEY FT)	DESCRIPTION
BENCHMARK	POINTS						
	191+74.72	RTE CC	22.64 LT	1427789.4094	451127.5929	1,300.43	EXISTING BOLT NW COR BRIDGE OVER ROUTE 65
	182+44.80	RTE CC	79.83 LT	1426864.0371	451228.5550	1,279.37	BM3 SQUARE ON N/E CORNER OF EAST END OF RETAINING WALL
PROJECT CO	NTROL POINTS	6					
	188+47.77	RTE CC	11.52 RT	1427461.2951	451107.4453	1,295.44	PK NAIL
	180+87.33	RTE CC	74.60 LT	1426706.5221	451232.1402	1,279.45	5/8" REBAR
ALIGNMENTS							
ROUTE CC							
	187+85.23	Œ.		451121.6237	1427399.3058		BEGIN ALIGNMENT
	199+84.26	Ę.		451070.3892	1428597.2407		END ALIGNMENT
RAMP 1	0+00.00	B <u>.</u>		452078.7976	1427905.0496		BEGIN ALIGNMENT/ PC CURVE
	1+21.40	RT	7.69	451957.8724	1427915.7758		PI CURVE Δ=14°29'24.95"
				452163.1703	1428856.2449		CC CURVE
	2+41.50	BE.		451843.4776	1427956.4183		PT CURVE
	10+45.06	FL.		451086.2910	1428225.4334		END ALIGNMENT
RAMP 3							
	0+00.00	BE.		451086.2910	1428225.4334		BEGIN ALIGNMENT
	9+08.84	₽		450185.1042	1428107.7537		PC CURVE
	10+37.64	RT		450057.3885	1428091.0762		PΙ CURVE Δ=10°16'35"
				449999.6328	1429528.0852		CC CURVE
	11+65.75	ΒĘ		449928.7463	1429528.0851		PT CURVE
	15+15.75	BE		449579.1751	1428114.7711		END ALIGNMENT
ROUTE 65							
	50+00.00	Ę.		454288.8306	1427642.7100		BEGIN ALIGNMENT
	53+42.00	Ę.		453948.1687	1427672.9341		PI POINT
	135+27.50	Ę.		445794.6960	1428396.3241		END ALIGNMENT
JRALOOP							
	74+92.58	B		451831.5098	1428054.4235		BEGIN ALIGNMENT
	80+51.37	Ę.		451342.19818	1428324.2761		EQ. STA. 80+51.37 BK.= STA. 0+00.00 AH.
	0+00.00	Ę.		451342.1944	1428324.2782		PC CURVE
				451298.7313	1428245.4685		CC CURVE
	2+97.38	ΒĘ		451268.6010	1428160.6619		PT CURVE/END ALIGNMENT



3/3/2025
ROUTE STATE
CC/J MO
DISTRICT SHEET NO.
SW 5
COUNTY
CHRISTIAN
JOB NO.
J8S3245

CONTRACT ID.

BRIDGE NO

TE DESCRIPTION

COMMISSION

COMMISSION

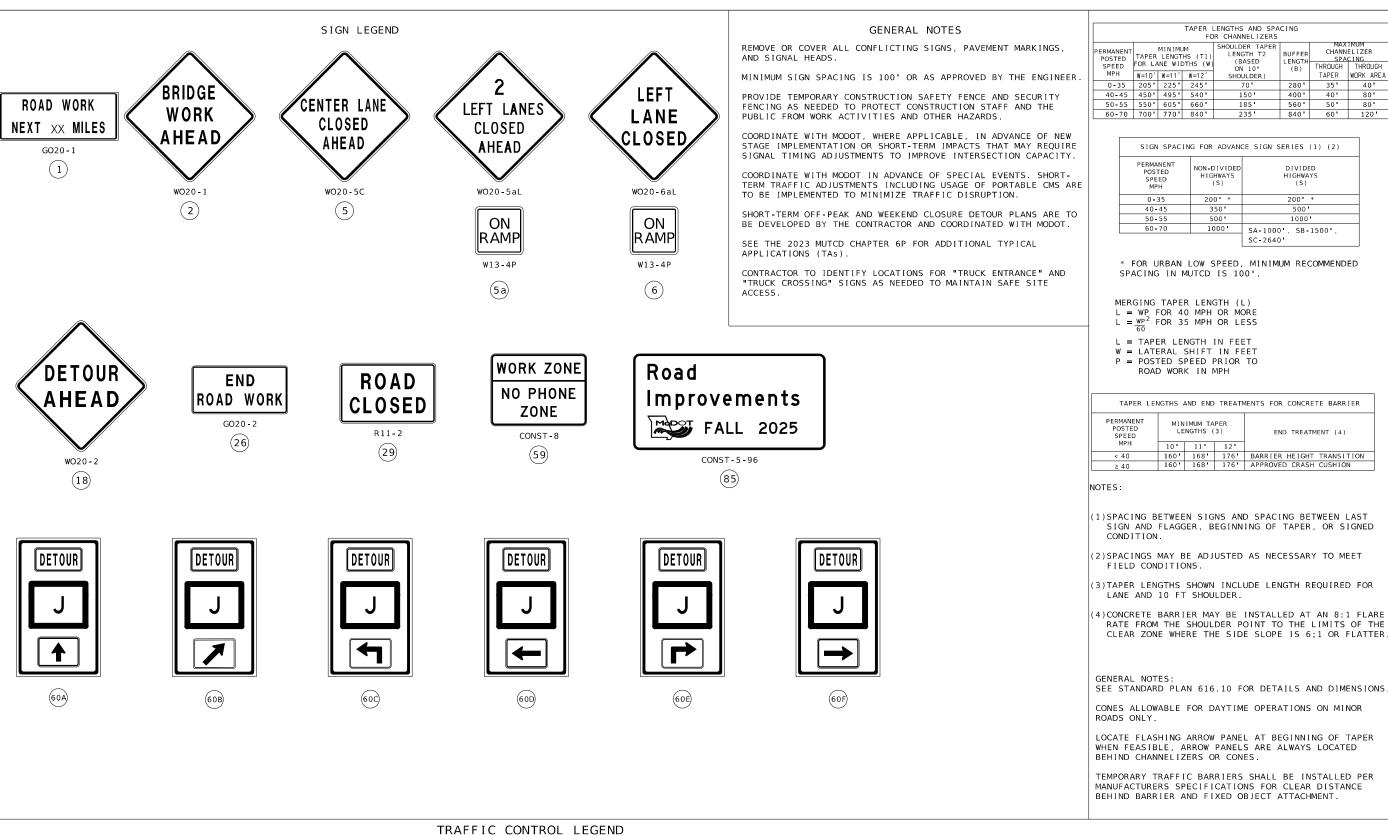
105 WEST CAPITOL

105 WEST CAPITOL

107 WEST CAPITOL

105 WEST CAPITOL

SEO ST. LOUIS STREET SPRINGFIELD, MO 65806 PHONE: 417.890.8802







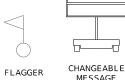
TYPE III MOVABLE **BARRICADE** DETECTABLE PEDESTRIAN **BARRICADE**

SIGN

CHANNELIZERS

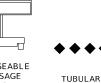
TEMPORARY TRAFFIC BARRIER (TYPE F)





SIGN

(CMS)



MARKERS





DIRECTIONAL

INDICATOR

BARRICADES

FLASHING

ARROW PANEL

SAND BARREL IMPACT ATTENUATOR

0000000

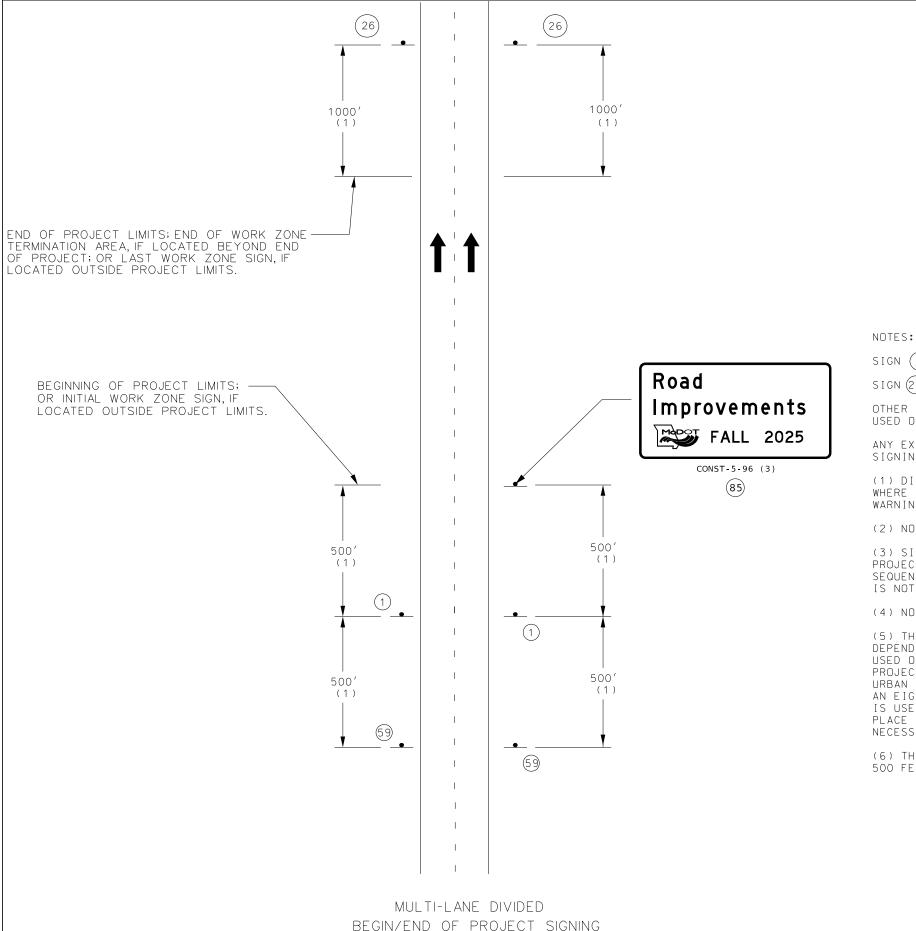
4-7-2025

4/7/2025 STATE CC MΩ DISTRICT SHEET NO. SW 6 CHRISTIAN JOB NO. J8S3245 CONTRACT ID.

> PROJECT NO BRIDGE NO.



TRAFFIC CONTROL PLAN NOTES AND SIGN L SHEET 1 OF 1



NO SCALE

ROAD WORK NEXT X MILES

GD20-1 (1)

END ROAD WORK

> G020-2 26

WORK ZONE NO PHONE ZONE CONST-8 (59)

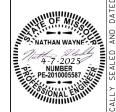
SIGN (1) IS REQUIRED PER MUTCD 6G.05.

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

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

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) NOT USED.
- (3) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE,
- (4) NOT USED.
- (5) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. 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 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. x 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
- (6) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



4/7/2025

CC MΩ DISTRICT SHEET NO. SW

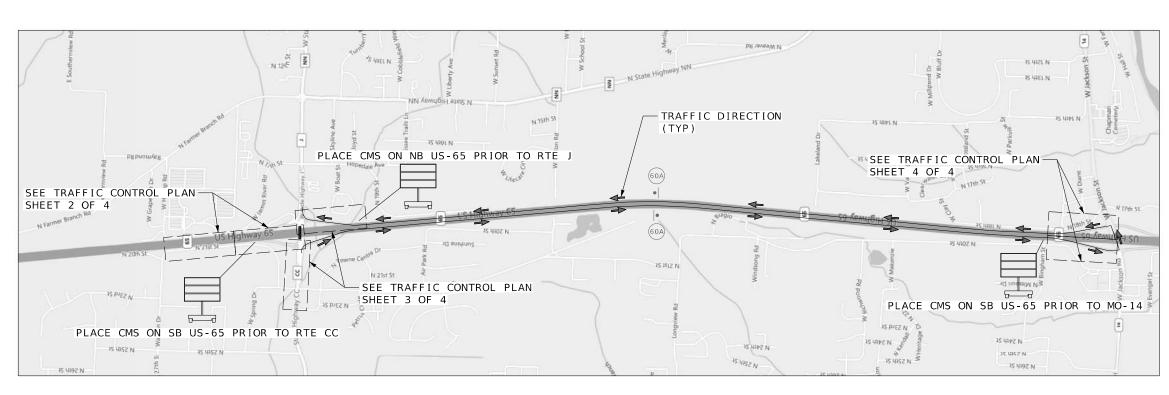
CHRISTIAN JOB NO. J8S3245

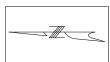
CONTRACT ID. PROJECT NO

BRIDGE NO.

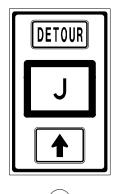


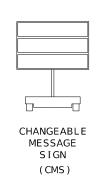
TRAFFIC CONTROL TYPICAL APPLICATIONS SHEET 1 OF 1





DETOUR ROUTE SCALE: 1" = 1000'





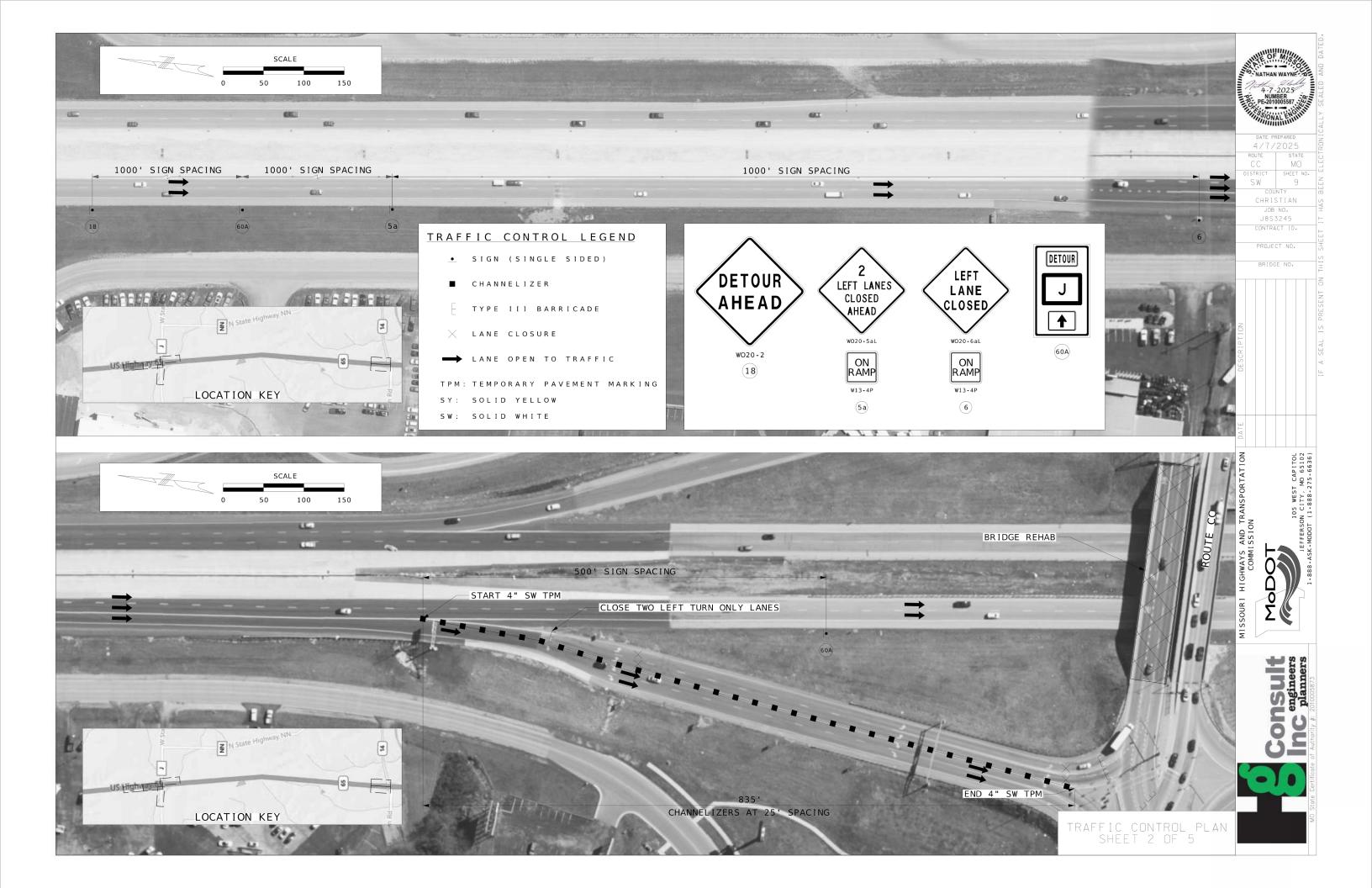
TRAFFIC CONTROL PLAN SHEET 1 OF 5

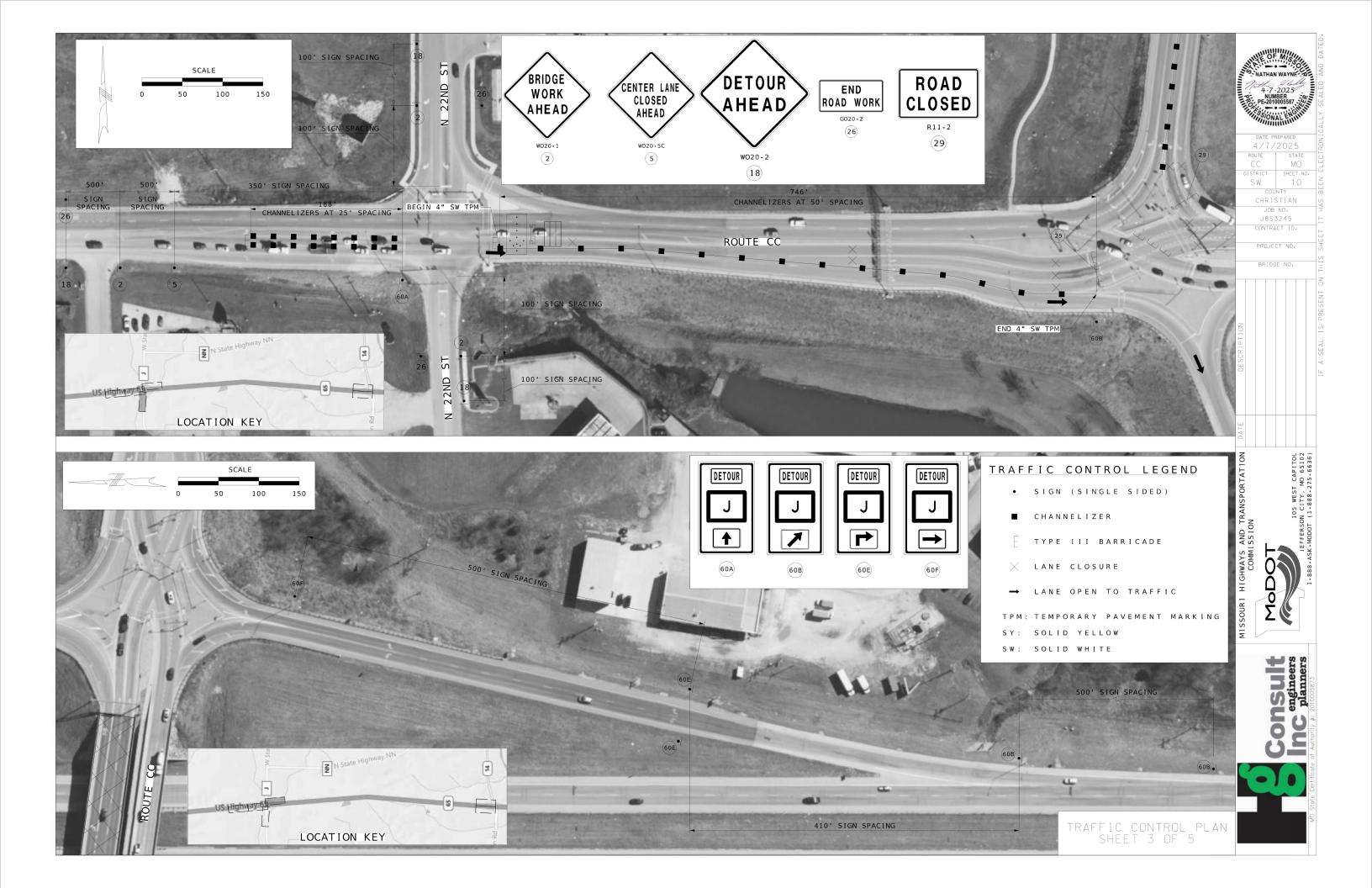
ROUTE CC DISTRICT SW

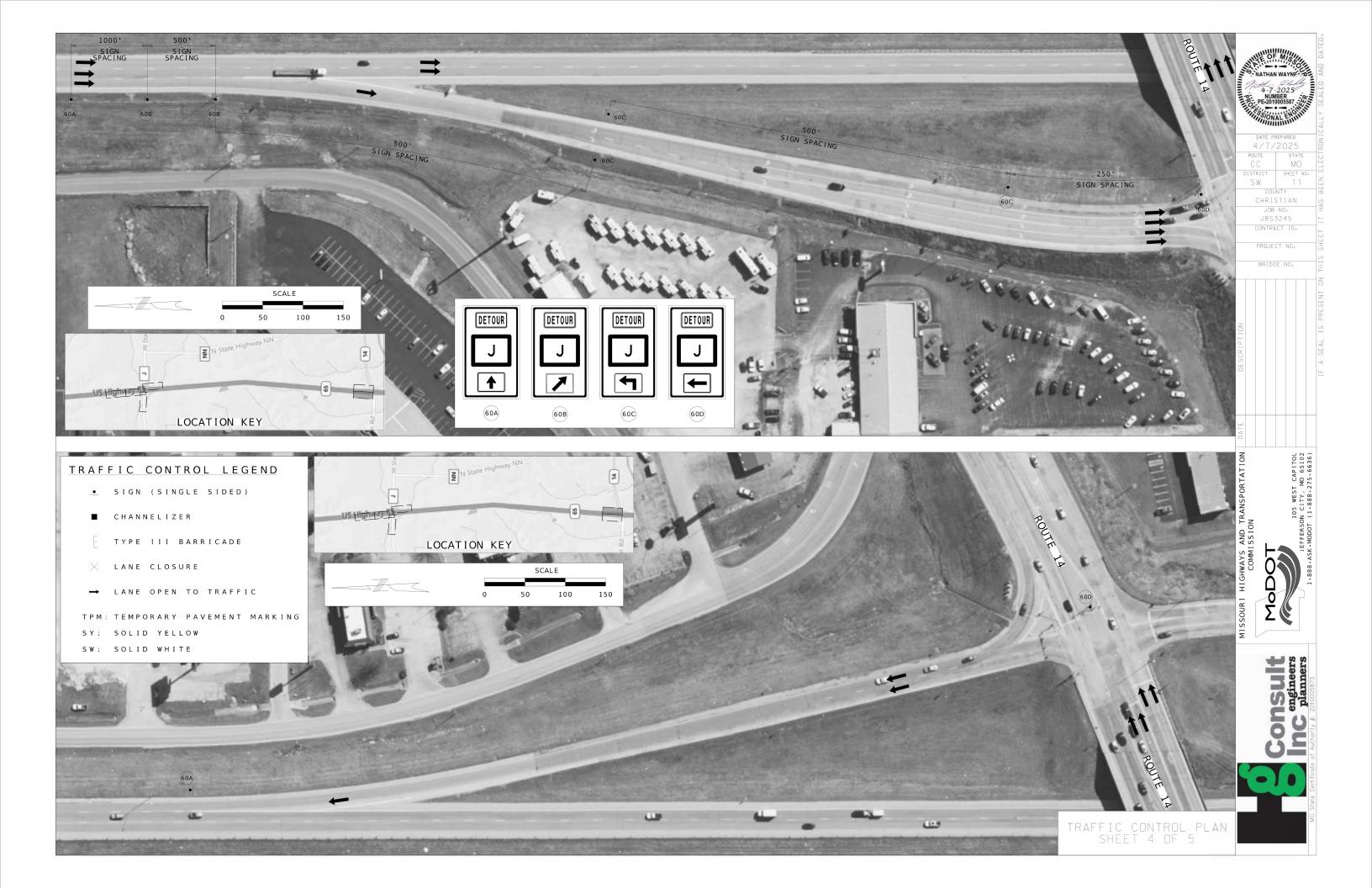
CHRISTIAN JOB NO.
J8S3245
CONTRACT ID.

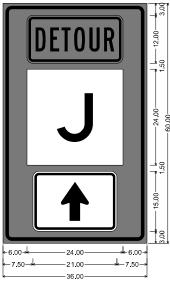
PROJECT NO.

STATE







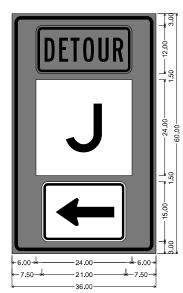


- 0.88" Border, 0.63" Indent, Black on Orange:
- 1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange; "DETOUR", B;

State Highway J M1-7a;

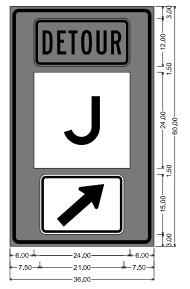
1.50" Radius, 0.63" Border, 0.38" Indent, Black on White; Arrow M6-3;

SIGN NO.	60A
STATION	VARIES
ROADWAY	VARIES



- 0.88" Border, 0.63" Indent, Black on Orange,
- 1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange; "DETOUR", B:
- State Highway J M1-7a;
- 1.50" Radius, 0.63" Border, 0.38" Indent, Black on White; Arrow M6-1;

ı	SIGN NO.	60D
ı	STATION	VARIES
ı	ROADWAY	VARIES

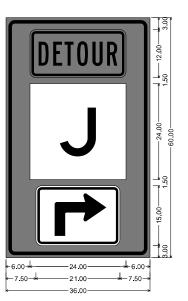


- 0.88" Border, 0.63" Indent, Black on Orange:
- 1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange; "DETOUR", B;

State Highway J M1-7a;

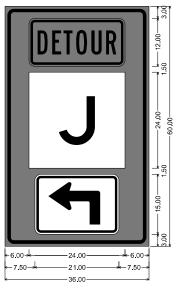
1.50" Radius, 0.63" Border, 0.38" Indent, Black on White; Arrow M6-2;

SIGN NO.	60B
STATION	VARIES
ROADWAY	VARIES



- 0.88" Border, 0.63" Indent, Black on Orange, 1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange;
- "DETOUR". B: State Highway J M1-7a;
- 1.50" Radius, 0.63" Border, 0.38" Indent, Black on White, Arrow M5-1;

SIGN NO.	60E
STATION	VARIES
ROADWAY	VARIES

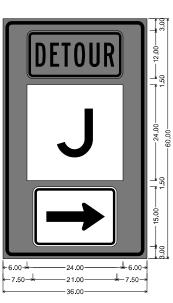


- 0.88" Border, 0.63" Indent, Black on Orange; 1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange;

State Highway J M1-7a;

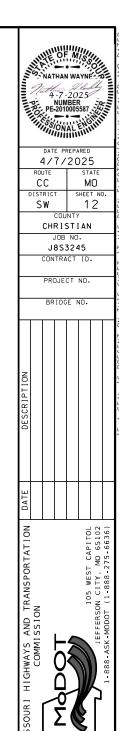
1.50" Radius, 0.63" Border, 0.38" Indent, Black on White; Arrow M5-1;

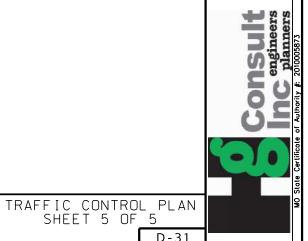
SIGN NO.	60C	
STATION	VARIES	
ROADWAY	VARIES	



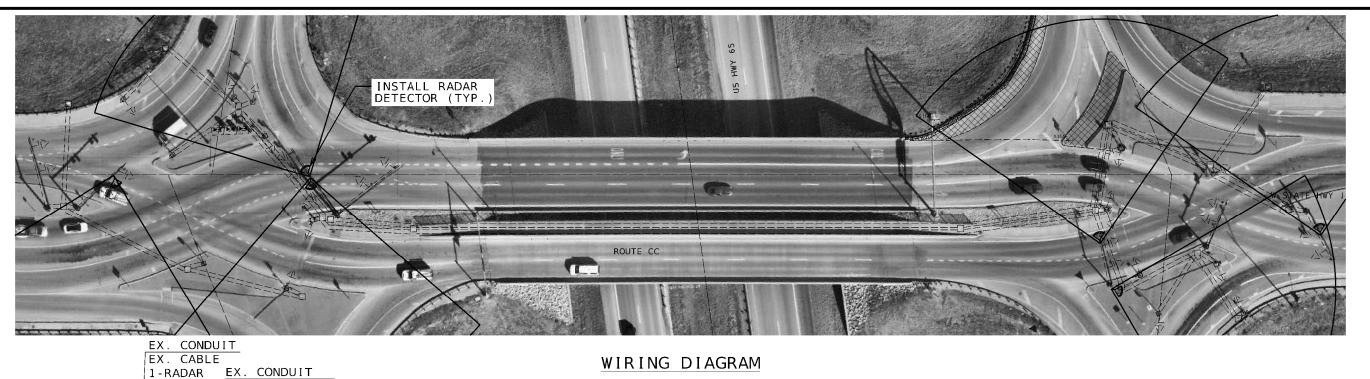
- 0.88" Border, 0.63" Indent, Black on Orange; 1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange;
- "DETOUR". B: State Highway J M1-7a;
- 1.50" Radius, 0.63" Border, 0.38" Indent, Black on White; Arrow M6-1;

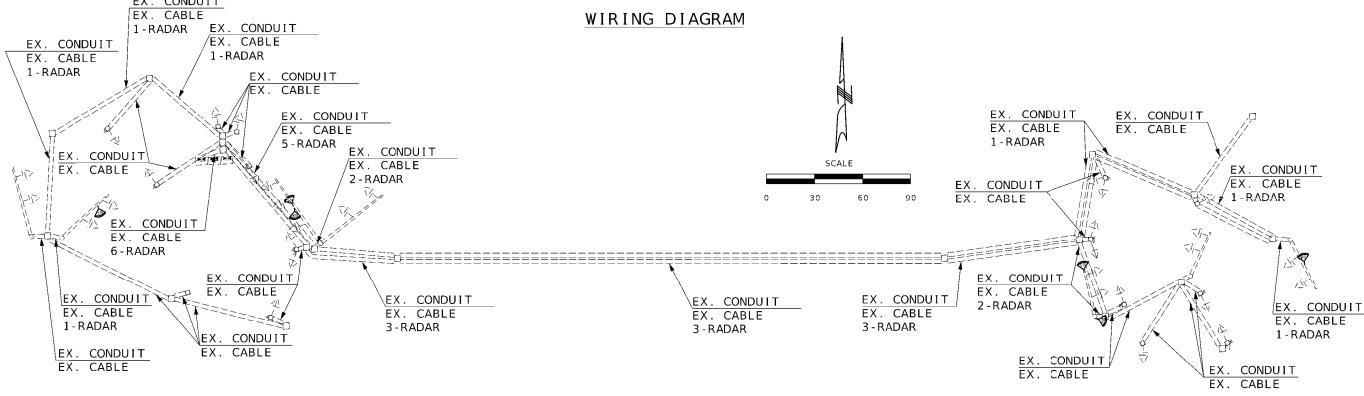
SIGN NO.	60F
STATION	VARIES
ROADWAY	VARIES





D-31





DETECTO	R SCHEDULE*			(CABLE*		
	TYPE			CENTER	DETEC	TION	
DETECTOR NUMBER		FROM	то	TO CENTER DISTANCE	VIDEO CABLE	RADAR CABLE	REMA
RAD 1	1	CONT	RAD 1	226		301	
	_	CONT	RAD 2	110		165	
RAD 2	1	CONT	RAD 3	110		165	
RAD 3	1	CONT	RAD 4	648		705	
RAD 4	1	CONT	RAD 5	648		734	
RAD 5	1	CONT	RAD 6	778		892	
RAD 6	1						
TOTAL	6						
				SUBTOTALS		2962	
				TOTALC		2070	

	TOTA
*FOR IMFORMATION P	URPOSES ONLY.
RADAR DETECTION CA	ABLE AND RADAR
DETECTORS BID LUMP	SUM.

1				TRAFFIC SIGNALS LEGEN	D
	M	CONTROLLER		CCTV CAMERA	6 X 6 LOOP DETECTOR
		CONTROLLER (EXISTING)	>	RADAR DETECTOR	6 X 15 LOOP DETECTOR
1	JCT	JUNCTION BOX	•	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR
ł	Ø	POWER SUPPLY		PREFORMED PULL BOX TYPE 1	MMMMMMM CONDUIT MEDIAN
1	0	WOOD POST	=	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED
	₽	SIGNAL HEAD (OPT LIM CONV)	-	CONCRETE PUL BOX TYPE 1	BBBBBB CONDUIT BRIDGE CONDUIT EXISTING
ł	Δ	SIGNAL HEAD	ITS	CONCRETE PUT BOX TYPE 2	CONDUIT TRENCHED
1	 	(OPT LIM)		ITS PULL BOX TYPE 2	
	4	SIGNAL HEAD (PEDESTRIAN)	ITS 🔼	ITS PULL BOX TYPE 5	MAST ARM - TYPE A BASE
ł		SIGNAL HEAD R		RADAR DETECTION ZONE	MAST ARM - TYPE C BASE
_					MAST ARM - TYPE F BASE

NOTES:

- 1.) ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 902 (TRAFFIC SIGNALS), UNLESS OTHERWISE NOTED.
- 2.) THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, AND THE CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER.
- 3.) CONTRACTOR SHALL COORDINATE WITH MID-AMERICAN SIGNAL LAYOUT OF RADAR DETECTION DEVICES PRIOR TO FINAL PLACEMENT AND INSTALLATION. SUPPLY AND INSTALL CABLE AND MOUNTING BRACKETS AS REQUIRED.

MISC.	BID ITEMS			
RADAR	DETECTION	SYSTEM	L\$	1

JSTED TO E ENGINEER.	OUIS P. 899 THOR
OUT OF ATION.	N. L. C.
	550 SPRIN PHON FICATE
SIGNAL PLAN	1

SHEET 1 OF 1

4/10/2025

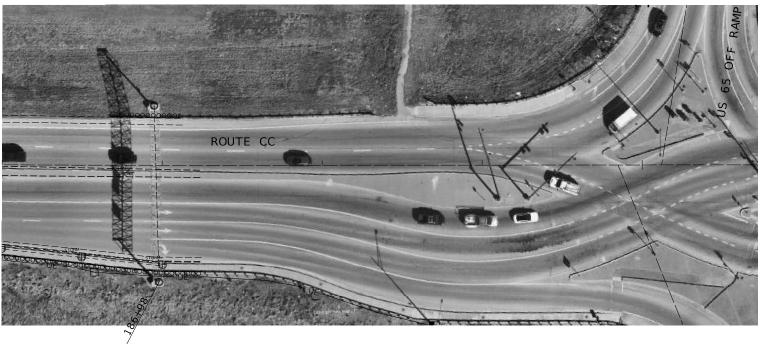
JOB NO. J8S3245

MO

13

CC/J

SW



(3)5'x6'



60

4)8'x6'

South



NOTES: 1. REMOVE EXISTING OVERHEAD SIGNAGE AND INSTALL PROPOSED SIGN ON EXISTING HARDWARE.

2. MINIMUM CLEARANCE FROM BOTTOM OF SIGN TO ROAD SURFACE SHALL BE 16.5° .



44.5 SPREAD

28'x6'

North

65

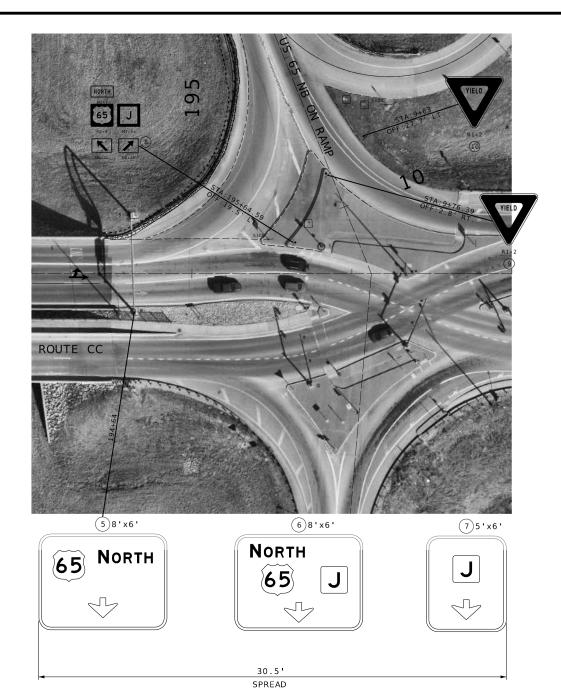
1)8'x6'

65 North

4/7/2025 CC/J MO SW 14

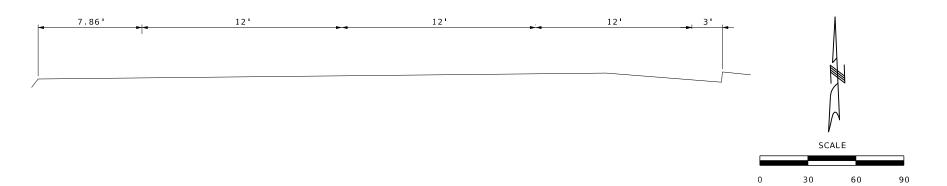
> CHRISTIAN J8S3245

SIGNING SHEET 1 OF 4



NOTES: 1. REMOVE EXISTING OVERHEAD SIGNAGE AND INSTALL PROPOSED SIGNS ON EXISTING HARDWARE.

2. MINIMUM CLEARANCE FROM BOTTOM OF SIGN TO ROAD SURFACE SHALL BE 165'.



SIGNING SHEET 2 OF 4

Joshua Pudlowski 08:52:38-05'00' 4/7/2025 CC/J MO SW 15 CHRISTIAN J8S3245

		SIG	GNS				Ρ.	IPE PO	ST*			STEEL P	OST*				BACKIN	G BARS**			U-CHANNEL	PERFORATED SQUARE STEEL TUBE POST				CONCRETE	CONCRETE	REMARKS AND OTHER REQUIRED ITEMS.			
						1											2° x 3			TOTAL ITEM NO	POST		2.5	1N.					EMBEDDED	BOLT DOWN	
SIGN NO.	SIGN SIZE	STATION		LOCATION	SIGN DTL SHT NO.	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL	POST DES NO. POST NO. 1	POST NO. 2 PI	OST NO. 3	LBS PER FT	TOTAL	1	@ 2.55 L	BS PER FT		9031210	793 798	POST NO. 1	POST NO. 2	TOTAL	2.25 INSERT		ANCHORS	BREAKWAY ASSEMBLY			
			HORZ CLEAR IF NOT STD							LTEM NO.											66			I TEM NO. 9031280	(6 FT)	DRIVEN	CONCRETE 7.GA	/ISSENDET	1TEM NO. 9031010	ITEM NO.	
		ľ	TIONE CELAN II NOT STD							9031220											9			9031260	9031272A	I TEM NO	1 TEM NO		9031010	9031020	
																NO. EACH	LGTH	TOTAL	TOTAL		£					9031281	9031285				
						IN.	LF	LF		LBS	LF	LF	LF		LBS		IN.	LF	LBS	LBS	LF	LF	LF	LF	EA	EA	EA	EACH	CY	CY	
1	96"x72"	186+98		ROUTE CC																											MOUNT ON EXISTING ALUMINUM I-BEAM
2	96"x72"	186+98		ROUTE CC																											MOUNT ON PROPOSED ALUMINUM I-BEAM
3	60"x72"	186+98		ROUTE CC																											MOUNT ON RELOCATED EXISTING ALUMINUM I-BEAM
4	96"x72"	186+98		ROUTE CC																											MOUNT ON EXISTING ALUMINUM I-BEAM
5	96"x72"	194+64		ROUTE CC																											MOUNT ON EXISTING ALUMINUM I-BEAM
6	96"x72"	194+64		ROUTE CC																											MOUNT ON EXISTING ALUMINUM I-BEAM
7	60"x72"	194+64		ROUTE CC																											MOUNT ON EXISTING ALUMINUM I-BEAM
8	ASSEMBLY	195+64		ROUTE CC																		16		16					0.13		RELOCATE EXISTING SIGNS ON NEW POST
9	60"x60"X60"	9+76		RAMP 1		4	16.83			182																			0.36		MOUNT NEW SIGN ON NEW POST
10	60 x60 X60	9+63		RAMP 1		4	16.83			182																			0.36		MOUNT NEW SIGN ON NEW POST
SUBTOTAL						>>>	>>>	\Longrightarrow	XXX	364		>>>>	>>>	XX	>>>	>>>	XXX		XXX	>>>	>>>	$\times\!\!\times\!\!\times\!\!\times$		16 16	$-\!\!\times\!\!\times$	XXX	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	$\times\!\!\times\!\!\times$	0.85		

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

** REFER TO MODOT DETA	IL 903.03BL FOR	INSTALLATION OF	DELINEATORS
------------------------	-----------------	-----------------	-------------

ROUN	D PIP	E POST	AND FOO	TING	DATA	ΓABLE
NOM.SIZE	WE I	GHT	STUB	FO	OTING	CONCRETE
(IN.)	LBS/FT	LBS/IN	LENGTH	DIA.	DEPTH	C.Y.
2 ½	5.79	0.48	4'-3½"	12"	4'-6"	0.13
3	7.58	0.63	4' - 3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3\frac{1}{2}"	18"	5′-6″	0.36

				POST	AND	FOOT	NG D	ATA TA	ABLE				
		POST							FOOTIN	NG.			
POST DES.	NOM.	WE I	GHT	STUB	DIA.	LEVEL (GROUND	6:1 G	RADE	4:1 GR	ADE	3:1 OR 2	:1 GRADE
NO.	SIZE	LBS/FT	LBS/IN	LENGTH		DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

		STANDARD	SIGN A	SSEMBL	IES		
SIGN	STATION	LOCATION	SIZE,	TYPE, DESIG	NATION, SIZ	E & NUMBER C	OF EACH
NO.			ST	ST	ST	ST	SH
			65 North	NORTH 65 J	♣	65 SOUTH	YIELD
			96 X72 SPECIAL	96"X72" SPECIAL	60"X72" SPEC1AL	96"X72" SPECIAL	60 X60 X60 R1 2
1	186+98	ROUTE CC	1				
2	186+98	ROUTE CC		1			
3	186+98	ROUTE CC			1		
4	186+98	ROUTE CC				1	
5	194+64	ROUTE CC	1				
6	194+64	ROUTE CC		1			
7	194+64	ROUTE CC			1		
8	195+64	ROUTE CC					
9	9+76	RAMP 1					1
10	9+63	RAMP 1					1
		TOTAL	2	2	2	1	2

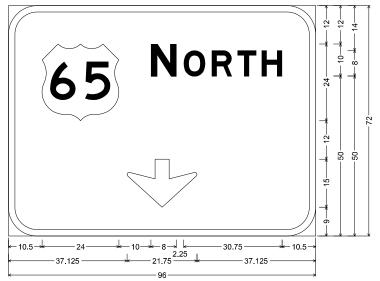
				S I	GN SUMMARY								
STANDARD SIGN OR	SIGN	NO.		SIZE, TYPE & SQUARE FEET									
SPECIAL SIGN NO.	DETAIL	EACH	SIZE	FLAT SHEET	FLAT SHEET FLUORESCENT	STRUCTURAL	STRUCTURAL FLORESCENT						
				SH	SHF*	ST	STF*						
	SHEET			ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.						
	NO.			9035004A	9035069A	9035011A	9035071A						
SP - 1	STD	2	96 " X72"			96.0							
SP-2	STD	2	96 " X72"			96.0							
SP-3	STD	2	60 " X72"			60.0							
SP - 4	STD	1	96 " X72"			48.0							
R1-2	STD	2	60 " X60"	25.0									
SUBTOTAL				25.0	0.0	300.0	0.0						



DESCRIPTION					
DATE					
NO			IC	0.2	(9



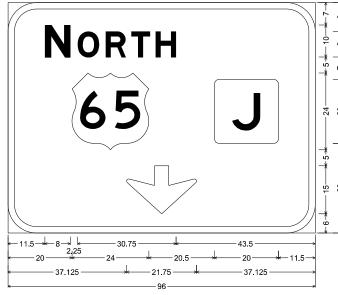
550 ST. LOUIS STRET SPRINGFIELD. MO 65806 SHORE: 417.8912.802



E1-1 ST-STRUCTURAL; 9.000" Radius, 2.000" Border, White on, Green; "NORTH", E Mod; Down Arrow 22.000" 270^;

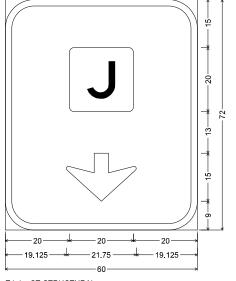
Table of letter and object lefts

63	N	0	R	T	Н
10.500	44.500	54.750	63.500	71.500	79.125
❖	1				
37 125					



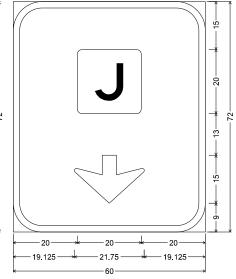
E1-1 ST-STRUCTURAL; 9.000" Radius, 2.000" Border, White on, Green; "NORTH", E Mod; Rounded Rectangle 1.500" Radius; Down Arrow 22.000" 270^; Table of letter and object lefts

V	0	R	T	H
11.500	21.750	30.500	38.500	46.125
63]		
20.000	64.500			
∿]			
37 125				



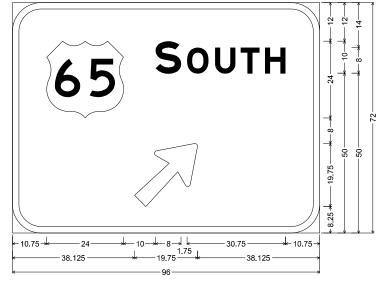
E1-1 ST-STRUCTURAL; 9.000" Radius, 2.000" Border, White on, Green; Rounded Rectangle 1.500" Radius; Down Arrow 22.000" 270^; Table of letter and object lefts

20.000 \$\frac{1}{2}\$



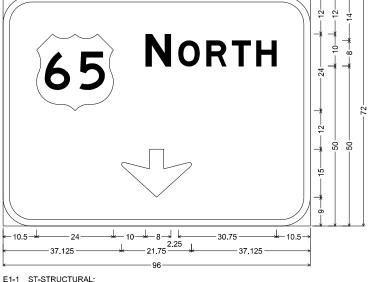
E1-1 ST-STRUCTURAL; 9.000" Radius, 2.000" Border, White on, Green; Rounded Rectangle 1.500" Radius; Down Arrow 22.000" 270^; Table of letter and object lefts

20.000 \$\frac{1}{2}\$
19.125



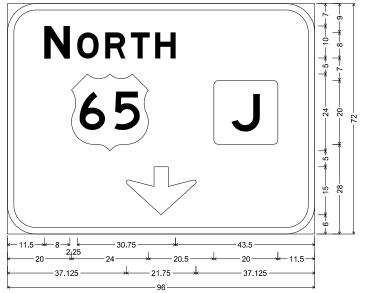
E1.1 ST-STRUCTURAL; 9.000" Radius, 2.000" Border, White on, Green; "SOUTH", E Mod; Arrow 80 - 25.000" 45'; Table of letter and object lefts

63 10.750	S 44.750	o 54.500	U 63.250	T 71.375	H 78.875
Ø					
38.125	5				



9.000" Radius, 2.000" Border, White on, Green;
"NORTH", E Mod; Down Arrow 22.000" 270^;
Table of letter and object lefts

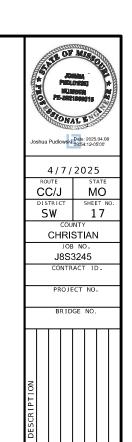
69	N	o	R	T	H
10.500	44.500	54.750	63.500	71.500	79.125
∜ 37.125					



E1-1 ST-STRUCTURAL; 9.000" Radius, 2.000" Border, White on, Green; "NORTH", E Mod; Rounded Rectangle 1.500" Radius;

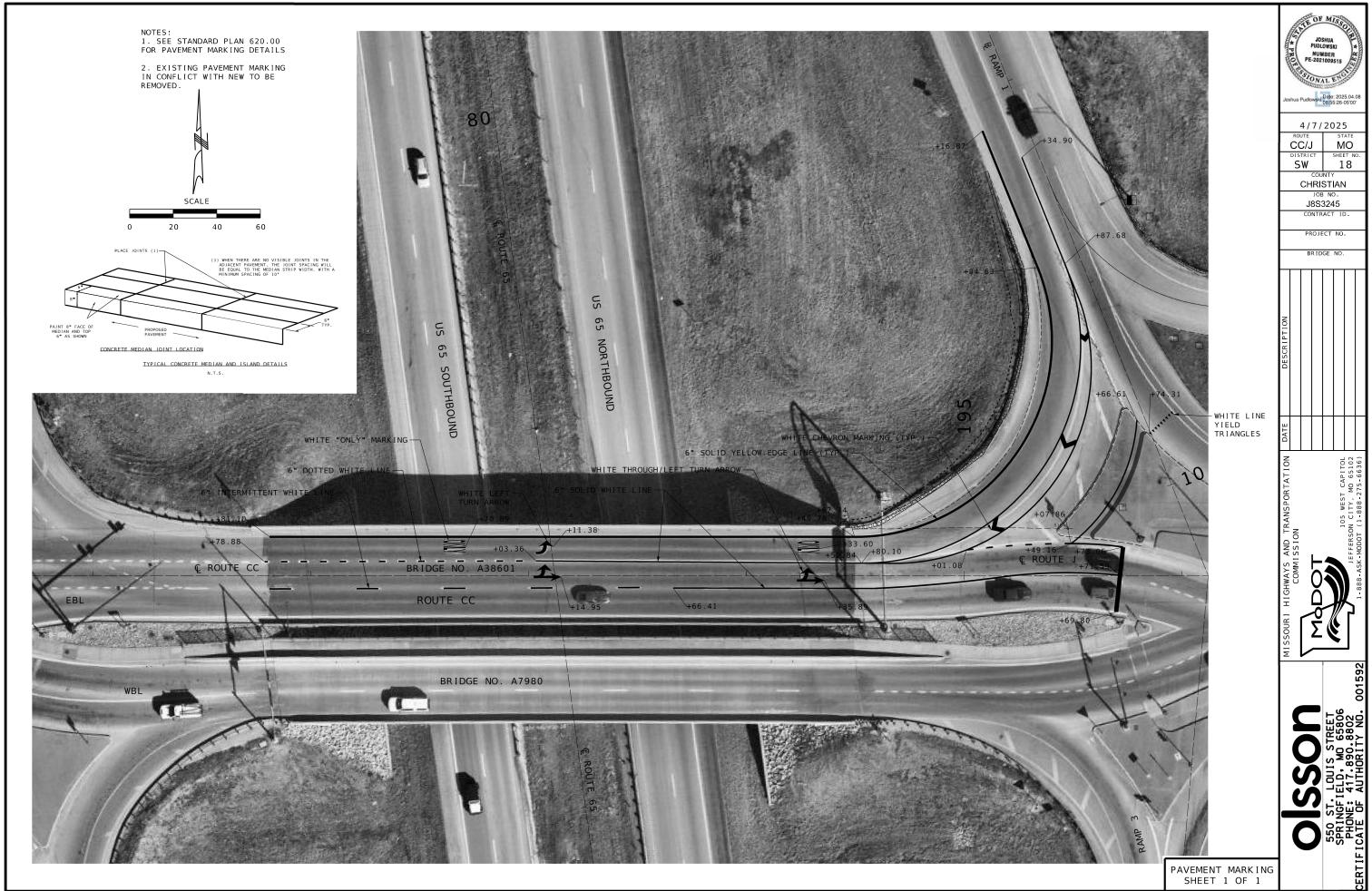
Down Arrow 22.000" 270^A; Table of letter and object lefts

SIGNING SHEET 4 OF 4





SEO ST. LOUIS STREET SPRINGF IELD. MO 65806 PHONE: 417.890.8802



sq. foot

sq. yard

sq. foot

sq. foot

sq. foot

lump sum

linear foot

each

linear foot

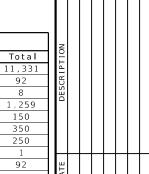
Digitally signed by Grant Luckenbill Date: 2025.03.03 11:08:42-06'00'

1

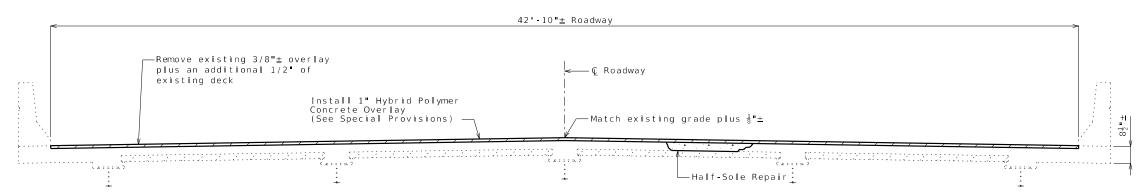
BR

PROJECT NO

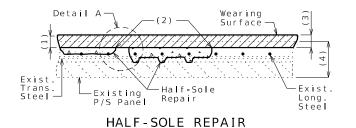
A38601

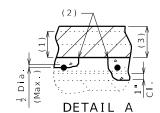


U.I.P. AND REHABILITATE EXISTING (113'-113') CONTINUOUS COMPOSITE PLATE GIRDER SPANS



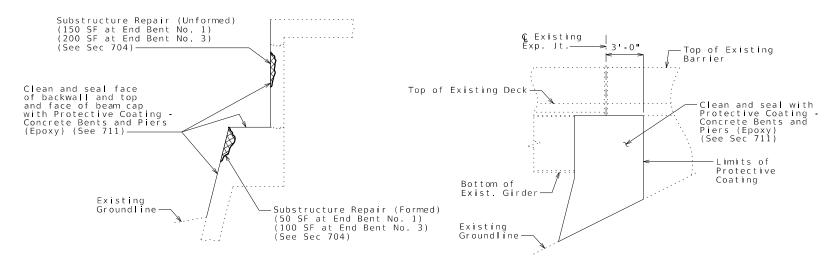
TYPICAL SECTION THRU EXISTING DECK





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

- (1) Removal of existing 0.4"± overlay plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) 1" minimum Hybrid Polymer Concrete Overlay
- (4) Original depth of deck minus previous



TYPICAL SECTION THRU END BENTS NO. 1 & 3 SHOWING SUBSTRUCTURE REPAIRS & PROTECTIVE COATING

Designed Dec. 2024 Detailed Dec. 2024

PART ELEVATION SHOWING LIMITS OF PROTECTIVE COATING AT END BENTS NO. 1 & 3

General Notes:

Design Specifications:

Half-Sole Repair

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

Removal of Seal Coat or Polymer Wearing Surface

Partial Removal and Plugging Slab Drain

Hybrid Polymer Concrete (HPC) Overlay

Substructure Repair (Formed)

Preformed Compression Seal

Substructure Repair (Unformed)

Removal of Existing Expansion Joint Seal or Sealant

Protective Coating - Concrete Bents and Piers (Epoxy)

Design Loading:

HS20-44 Modified (1983) and Military 24,000 lb Tandem Axle (1983)

Design Unit Stresses:

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

Miscellaneous:

Limits of removal of existing overlay and installation of Hybrid Polymer Concrete Overlay shall extend longitudinally from end to end of semi-deep abutment slabs and transversely from traffic face to traffic face of barriers.

Estimated Quantities

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

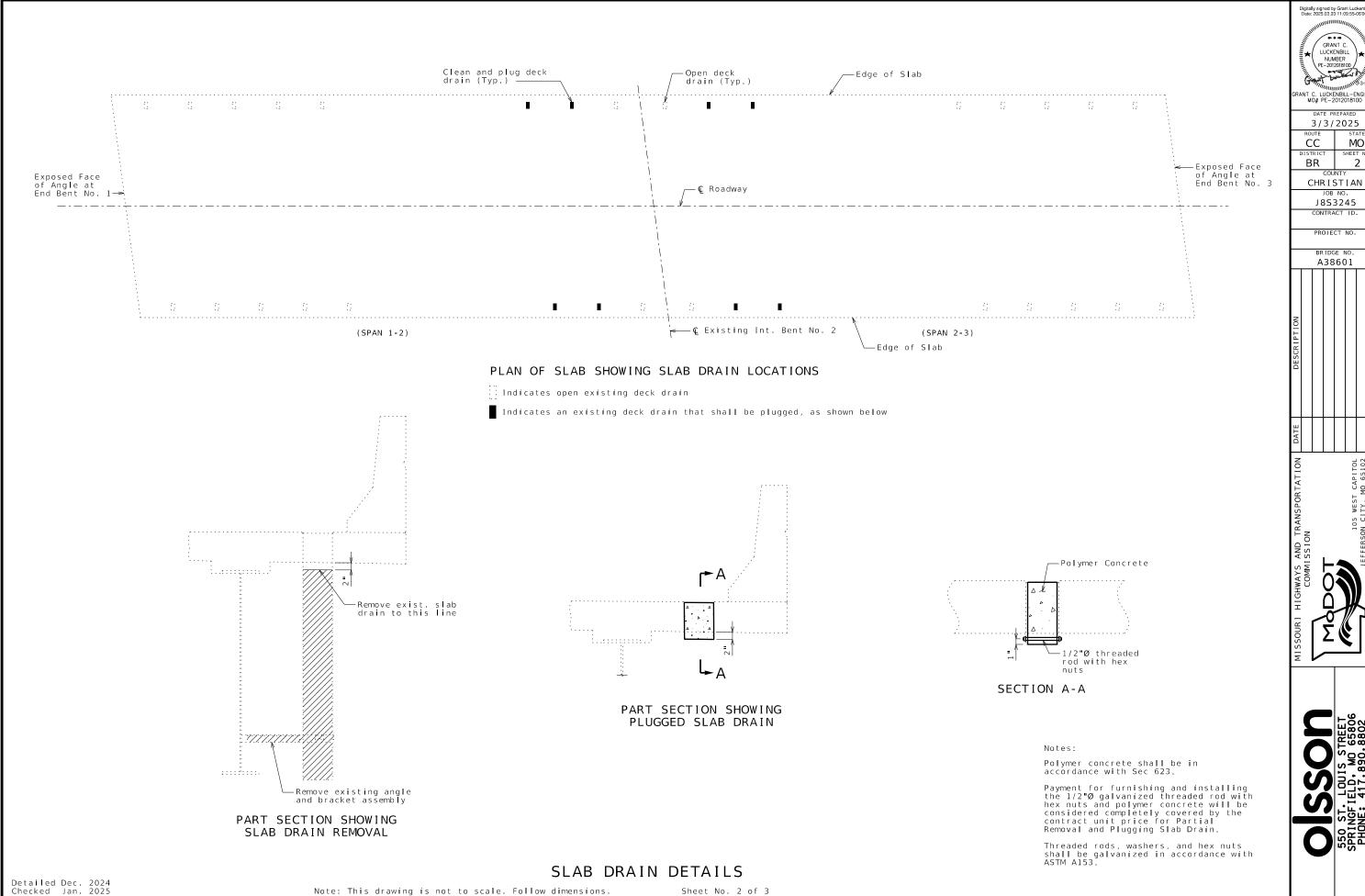
In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in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

The contractor shall exercise care to ensure spillage over joints is prevented and that a neat line is obtained along any terminating edge of wearing surface.

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

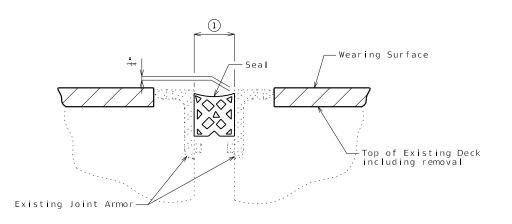
REPAIRS TO BRIDGE: ROUTE CC OVER ROUTE 65

ROUTE CC FROM ROUTE 160 TO ROUTE NN ABOUT 4.5 MILES EAST OF ROUTE 160 BEGINING STA. 191+81.60± (Match Existing)



MO SHEET NO

2



	SECT	ION	THRU	JOINT
--	------	-----	------	-------

Table of Transverse Preformed Compression Seal Dimensions										
Seal Width Perpendicular to Joint	Movement Capacity (Normal to Joint)	Min. Joint Width (Normal to Joint)	Max. Joint Width (Normal to Joint)	Allo Normal @ Ai	owed Inst to Joint r/Surfac	allation at RDWY e Tempera 1)	Gap Surface iture②	Manufacturer	Seal Name	
				@ 40°F	@ 50°F	@ 60°F	@ 70°F			
3½"*	1 5 "	1 3 "	3"	2 7 16**	28"*	2 1 "*	2 1 "*			

Note: Depth of seal shall not be less than width of seal.

- * Seal width and allowed gap is based on existing plans. Contractor shall field verify dimensions prior to ordering materials.
- ② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

 MoDOT Construction personnel will record the manufactuer and seal name that was used.

PREFORMED COMPRESSION SEAL AT END BENTS NO. 1 & 3

Detailed Dec. 2024 Checked Jan. 2025

DESIGN DESIGNATION

ADT CONST - 2025 = 10532 ADT DESIGN - 2045 = 11636 T = 3% V = 60 M.P.H.

FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS

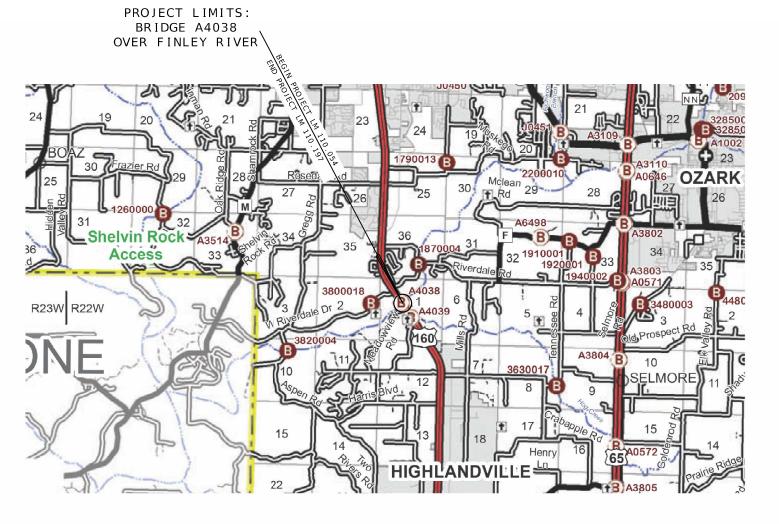
,	FYICTING	NIEW
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL	0000	
GUARD CABLE	0000	••••
CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER	1 - 1 1 - 1 \- 7	
LOCATION SURVEY MARKER	Č	\cap
UTILITIES	-	Ŭ
FIBER OPTICS OVERHEAD CABLE TV	– FO <i>–</i> -OTV-	
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	- OT -	
UNDERGROUND TELEPHONE OVERHEAD POWER	– UT – – OE –	—UT— — OE —
UNDERGROUND POWER	– UE –	
SANITARY SEWER	-s-	S
STORM SEWER GAS	– SS – – G –	SS
WATER	_w_	_₩_
MANHOLE	SAN)
FIRE HYDRANT	нур]
WATER VALVE	w, G	€
WATER METER	P ^{ww})
DROP INLET	°[_	
DITCH BLOCK	=	⊨
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE	PED	7
CHAIN LINK		<u>′</u> —
WOVEN WIRE GATE POST	—— X	: —— 1
	BM	
BENCHMARK	⊗	9

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY CHRISTIAN COUNTY





NOT TO SCALE

LOCATION OF CHRISTIAN COUNTY

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (1 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4 - 7
BRIDGE SHEETS	XX

PE-200 PE-200 03/03/200 DARRELL RAY MO-PE-20	RELL CCOOK MBER S6000971 25 15:59:55 (COOK - GIVIL 000000971
2/26	/2025
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	1
COU	NTY
	STIAN
JOB	NO.
JSR	.0283
CONTRA	
	CT NO.

	BRIDGE NO.									
DESCRIPTION										
DATE										
NO					101	102	36)			

LENGTH OF PROJECT

LOG MILES FROM ARAN

BEGINNING OF PROJECT LM. 110.054
END OF PROJECT LM. 110.197

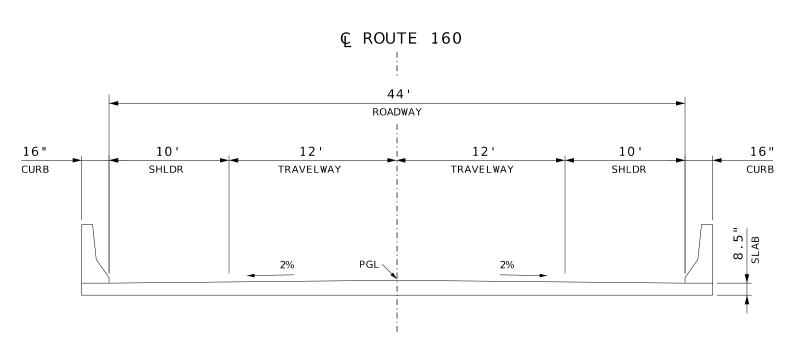
APPARENT LENGTH 755 FEET

EQUATIONS AND EXCEPTIONS:



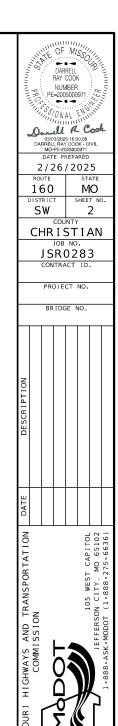
NET LENGTH OF PROJECT 755 FEET
STATE LENGTH 0.14 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES



TYPICAL SECTION

BRIDGE NO. A4038 LM 110.054 TO LM 110.197



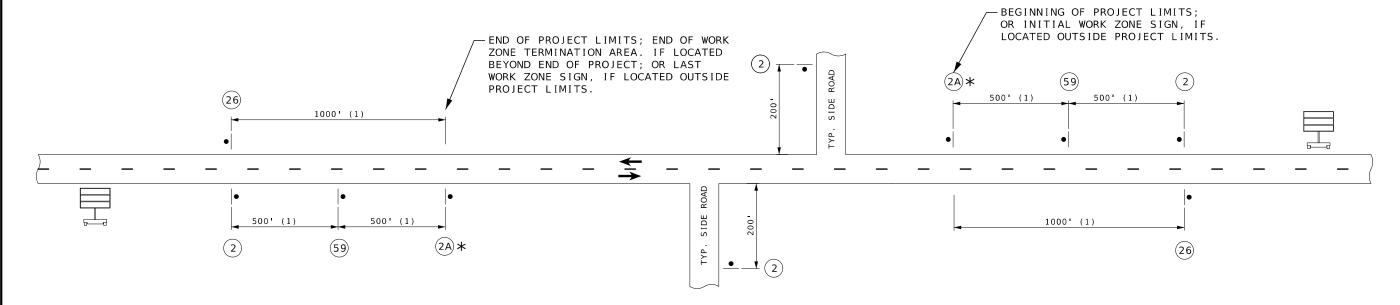
										EFFECTIVE: 07-01-2024	minimum,
TOTAL QTY TOTAL	SIGN				QTY TO	OTAL SIGN					WIND OF MISS
SIZE AREA QTY AREA RELOCRELOC	NUM.		SIZEAREA	\ QTY	TOTAL RELOC RE	ELOC NUM.					DARRELL RAY COOK
SIGN IN. SQ.FT EACH SQ.FT. EACH SQ.FT.		SIGN	IN. SQ.FT	EACH	SQ.FT. EACH SQ	Q.FT.		I TEM	TOTAL		NUMBER
WARNING SIGNS	DESCRIPTION			GUIC	DE SIGNS		DESCRIPTION	NUMBER	QTY	DESCRIPTION	PE-200500097
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT)	E05-1	36X48 12.00)			GORE EXIT	6122008	1	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	III, SONAL EN
WO1-1R 48X48 16.00	TURN (SYMBOL RIGHT)	E05-2	48X36 12.00				EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	Danell R
WO1-2L 48X48 16.00	CURVE (SYMBOL LEFT)	E05-2a	48X36 12.00				EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	03/03/2025 16:00: DARRELL RAY COOK
WO1-2R 48X48 16.00	CURVE (SYMBOL RIGHT)	GO20 - 1	60X24 10.00		16.00		ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	MO-PE-20050009 DATE PREPAR
WO1-3L 48X48 16.00 WO1-3R 48X48 16.00	REVERSE TURN (SYMBOL LEFT) REVERSE TURN (SYMBOL RIGHT)	GO20-2 GO20-4	48X24 8.00 36X18 4.50		16.00	26	END ROAD WORK	6122014		IMPACT ATTENUATOR 66 MPH (SAND BARRELS)	2/26/20
WO1-3R 48X48 16.00	REVERSE CURVE (SYMBOL LEFT)	4	42X30 8.75				PILOT CAR FOLLOW ME PILOT CAR IN USE WAIT & FOLLOW	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS) IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	ROUTE
WO1-4E 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT)		18X12 1.50				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	160
WO1-4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)		P 36X24 6.00		12.00	54	WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)	DISTRICT SHI
WO1-4bR 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8a	24X18 3.00		6.00		END DETOUR	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	SW
WO1-4cL 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36 12.00				DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM	CHRIST
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 - 9P	48X12 4.00				STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	JSR028
WO1-6a 72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L					DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	CONTRACT I
WO1-7 60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18 6.00				DETOUR ARROW (RIGHT)	6161025		CHANNELIZER (TRIM LINE)	PROJECT NO
W01-7a 72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	D1 1	140740 13 35		JLATORY SIGNS		STOR	6161030		TYPE III MOVEABLE BARRICADE	
W01-8 18X24 3.00	CHEVRON (SYMBOL)	R1-1	48X48 13.25				STOP YIELD	6161033		DIRECTION INDICATOR BARRICADE	BRIDGE NO
WO1-8a 30X36 7.50 WO3-1 48X48 16.00	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) STOP AHEAD (SYMBOL)	R1-2 R1-2a	48TRI 6.93 36X36 9.00				TO ONCOMING TRAFFIC (PLAQUE)	6161040 6161047	2	FLASHING ARROW PANEL TYPE III OBJECT MARKER	<u> </u>
WO3-1 48X48 16.00	YIELD AHEAD (SYMBOL)	R1-28	30X30 9.00				ALL WAY (PLAQUE)	6161047		SEQUENTIAL FLASHING WARNING LIGHT	$\mathbf{I} \mid \cdot \mid \cdot \mid \cdot \mid \cdot$
WO3-3 48X48 16.00	SIGNAL AHEAD (SYMBOL)	R2-1	36X48 12.00		48.00	25	SPEED LIMIT XX	6161070		TUBULAR MARKER	
WO3-4 48X48 16.00 2 32.00	11 BE PREPARED TO STOP	R3 - 1	48X48 16.00				NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	$\mathbf{I} \mid \cdot \mid \cdot \mid \cdot \mid$
WO3-5 48X48 16.00	SPEED LIMIT AHEAD	R3-2	48X48 16.00				NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,	
WO4-1L 48X48 16.00	MERGE (SYMBOL FROM LEFT)	R3-3	36X36 9.00				NO TURNS	6161096		COMMISSION FURNISHED/RETAINED	
WO4-1R 48X48 16.00	MERGE (SYMBOL FROM RIGHT)	R3-4	48X48 16.00				NO U-TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN W/O COMM.	[E]
WO4-1aL 48X48 16.00	MERGE (LEFT)	R3 - 7L	30X30 6.25				LEFT LANE MUST TURN LEFT	6161098/	4	INTERFACE - CONTRACTOR FURNISHED/RETAINED	[සි
WO4-1aR 48X48 16.00	MERGE (RIGHT)	R3-7R	30X30 6.25				RIGHT LANE MUST TURN RIGHT		2	CHANGEABLE MESSAGE SIGN WITH COMM.	JES
W05-1 48X48 16.00 W05-3 48X48 16.00 4 64.00	ROAD/BRIDGE/RAMP NARROWS	R4-1 R4-2	36X48 12.00				DO NOT PASS	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED	
W05-3 48X48 16.00 4 64.00 W05-5 48X48 16.00	7 ONE LANE BRIDGE NARROW LANES	R4-2	36X48 12.00				PASS WITH CARE KEEP RIGHT (HORIZONTAL ARROW)	6162000		WORK ZONE TRAFFIC SIGNAL SYSTEM TEMPORARY LONG-TERM RUMBLE STRIPS	
W06-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48 12.00				KEEP LEFT (HORIZONTAL ARROW)	0102002		TEMPORARY TRAFFIC BARRIER	
W06-2 48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R5 - 1	30X30 6 25				DO NOT ENTER	6173600		CONTRACTOR FURNISHED/RETAINED	
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24 6.00				WRONG WAY			TEMPORARY TRAFFIC BARRIER	ш
WO7-3a 30X24 5.00	NEXT XX MILES (PLAQUE)	R6-1L	54X18 6.75				ONE WAY ARROW (LEFT)	6173602	В	CONTRACTOR FURNISHED/COMMISSION RETAINED	TA
WO8-1 48X48 16.00	ВИМР	R6-1R	54X18 6.75				ONE WAY ARROW (RIGHT)	6174000	4	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-2 48X48 16.00	DIP	R6-2L	24X30 5.00				ONE WAY (LEFT)	6175010	4	RELOCATING TEMPORARY TRAFFIC BARRIER	z
WO8-3 48X48 16.00	PAVEMENT ENDS	R6 - 2R	24X30 5.00				ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER	12
W08-4 48X48 16.00	SOFT SHOULDER	R9-9	24X12 2.00				SIDEWALK CLOSED	61760001	В	COMMISSION FURNISHED/RETAINED	[5
WO8-5 48X48 16.00 WO8-6 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)	 R9-11L	24X18 3.00				SIDEWALK CLOSED AHEAD,	177000		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED	ا _. ا
W08-6c 48X48 16.00	TRUCK CROSSING TRUCK ENTRANCE	K9-11L	24/16 3.00	_			(ARROW LEFT) CROSS HERE SIDEWALK CLOSED AHEAD,	6208064		TEMPORARY RAISED PAVEMENT MARKER	SP(
W08-7 36X36 9.00	LOOSE GRAVEL	R9-11R	24X18 3.00				(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS	N N
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	E ≤
WO8-9 48X48 16.00	LOW SHOULDER	R11-2	48X30 10.00				ROAD CLOSED	6181000	1	MOBILIZATION	
WO8-11 48X48 16.00	UNEVEN LANES						ROAD CLOSED XX MILES AHEAD	6274000	1	CONTRACTOR FURNISHED SURVEYING AND STAKING	AN LISS
WO8-12 48X48 16.00	NO CENTER LINE		60X30 12.50				LOCAL TRAFFIC ONLY				S W
WO8-15 48X48 16.00	GROOVED PAVEMENT		60X30 12.50				ROAD CLOSED TO THRU TRAFFIC				MAY COM
W08-15P 30X24 5.00	MOTORCYCLE (PLAQUE)	4	A 60X48 20.00				FINE SIGN	-			15 X Y
WO8-17L 48X48 16.00 WO8-17R 48X48 16.00	SHOULDER DROP-OFF (SYMBOL LEFT) SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-3	X 56X12 4.67			CNS	SPEEDING/PASSING (PLATE)	<u> </u>			
WO8-17N 48X48 10.00 WO8-17P 30X24 5.00	SHOULDER DROP-OFF (PLAQUE)	CONST - 5	48X36 12.00		TELLANEOUS SIV	GNS	POINT OF PRESENCE	-			
W10-1 42RND. 9.62	RAILROAD CROSSING	-	96X48 32 00				POINT OF PRESENCE	1			15 I Z (C
WO12-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)	-	48X36 12.00		24.00	59	WORK ZONE NO PHONE ZONE	1			
WO12-2 48X48 16.00	LOW CLEARANCE (SYMBOL)		36X78 63.50				SPECIAL SIGN ASSEMBLY]			
W012-2x 24X18 3.00	LOW CLEARANCE (PLAQUE)]			<u> </u>
WO12-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)										1
W012-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD	I		\perp				1			1
W012-5 120X60 50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD		 	+				-			1
W013-1 30X30 6.25 W016-2 30X24 5.00	ADVISORY SPEED (PLAQUE) XXX FEET (PLAQUE)	-	+ + -	+				1			1
W016-2 30X24 5.00 W016-3 30X24 5.00	XXX FEET (PLAQUE) X MILE (PLAQUE)	H	+ + -	+ -				1			1
W020-1 48X48 16.00 6 96.00	2 ROAD/BRIDGE/RAMP WORK AHEAD	11		+ 1				1			1
W020-2 48X48 16.00 2 32.00	18 DETOUR AHEAD							1			1
WO20-3 48X48 16.00	ROAD CLOSED AHEAD	616-10	0.05	-	TOTAL		•	•			1
WO20-4 48X48 16.00	ONE LANE ROAD AHEAD		RUCTION SI	GNS	2013						1
WO20-5 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10				DTAL					1
WO20-5a 48X48 16.00	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCA	ATED SIGNS			0					1
W020-6a 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED	-									1
W020-7a 48X48 16.00 2 32.00	8 FLAGGER (SYMBOL)	-									1
WO21-2 36X36 9.00 WO21-5 48X48 16.00	FRESH OIL SHOULDER WORK / SHOULDER WORK AHEAD	1									1
W021-5 48X48 16.00 W022-1 48X48 16.00	BLASTING ZONE AHEAD	1									1
W022-1 40X46 10.00 W022-2 42X36 10.50	TURN OFF 2-WAY RADIO AND PHONE	1									1
WO22-3 42X36 10.50	END BLASTING ZONE	1								SUMMARY OF QUANTITIES	1
GO22-1 21X15 2.19	WET PAINT (ARROW PIVOTS)	1								SHEET 1 OF 1	1
		_									1

BER 5000971 41-500014 (COOK - COVIL 5500971 EPARED 20 2 5 STATE MO SHEET NO. 3 TIAN NO. D283

GENERAL NOTES

- 1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED
- 2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
- 3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- 4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
- 5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
- 6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
- 7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
 8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
- 9. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.

 11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE
- 1. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
- 12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
- 13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
- 14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.

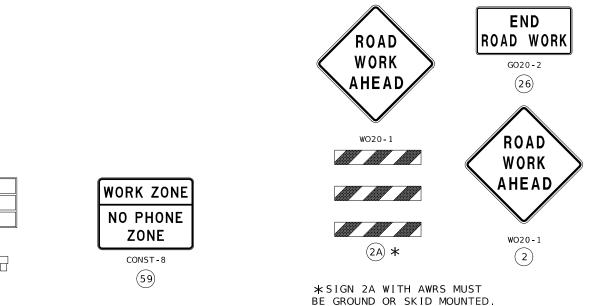


(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.
WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE
WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2)

TYPICAL BEGINNING AND END OF PROJECT
(UNDIVIDED HIGHWAY)

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



NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 4

DARFELL PREPARED

2/26/2025

ROUTE

160

MO

DISTRICT

SW

COUNTY

CHR I ST I AN

JOB NO.

J SRO 28 3

CONTRACT ID.

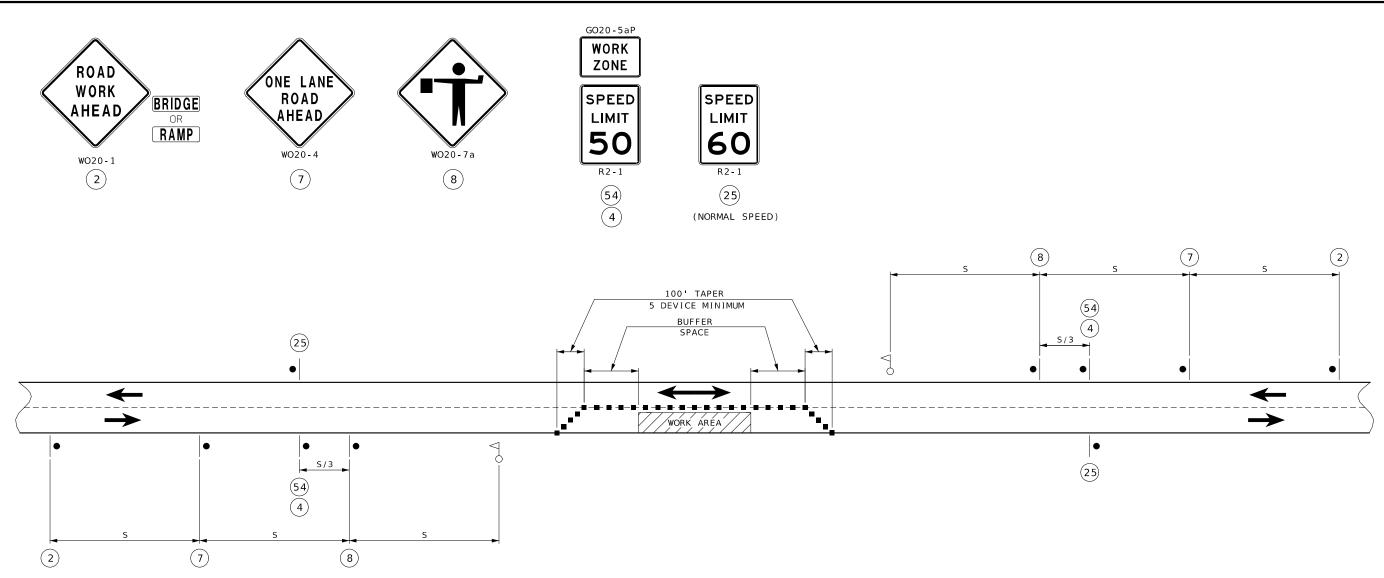
PROJECT NO.

ION DATE DESCRIPTION
TOL

SSOURI HIGHWAYS AND TRANSPORTAT
COMMISSION

MADOT

105 WEST CAPI
LIFFERSON CITY, MO 65



(UNDIVIDED HIGHWAY)

NOTES	
MOILS	٠

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL.
THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

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

- CHANNELIZERS

- FLAGGER

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

SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/ WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	250
40-45	350	80	360
50-55	500	80	495
60-70	1000	120	730

SPACING NOTES:

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

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

LANE CLOSURE USING FLAGGERS

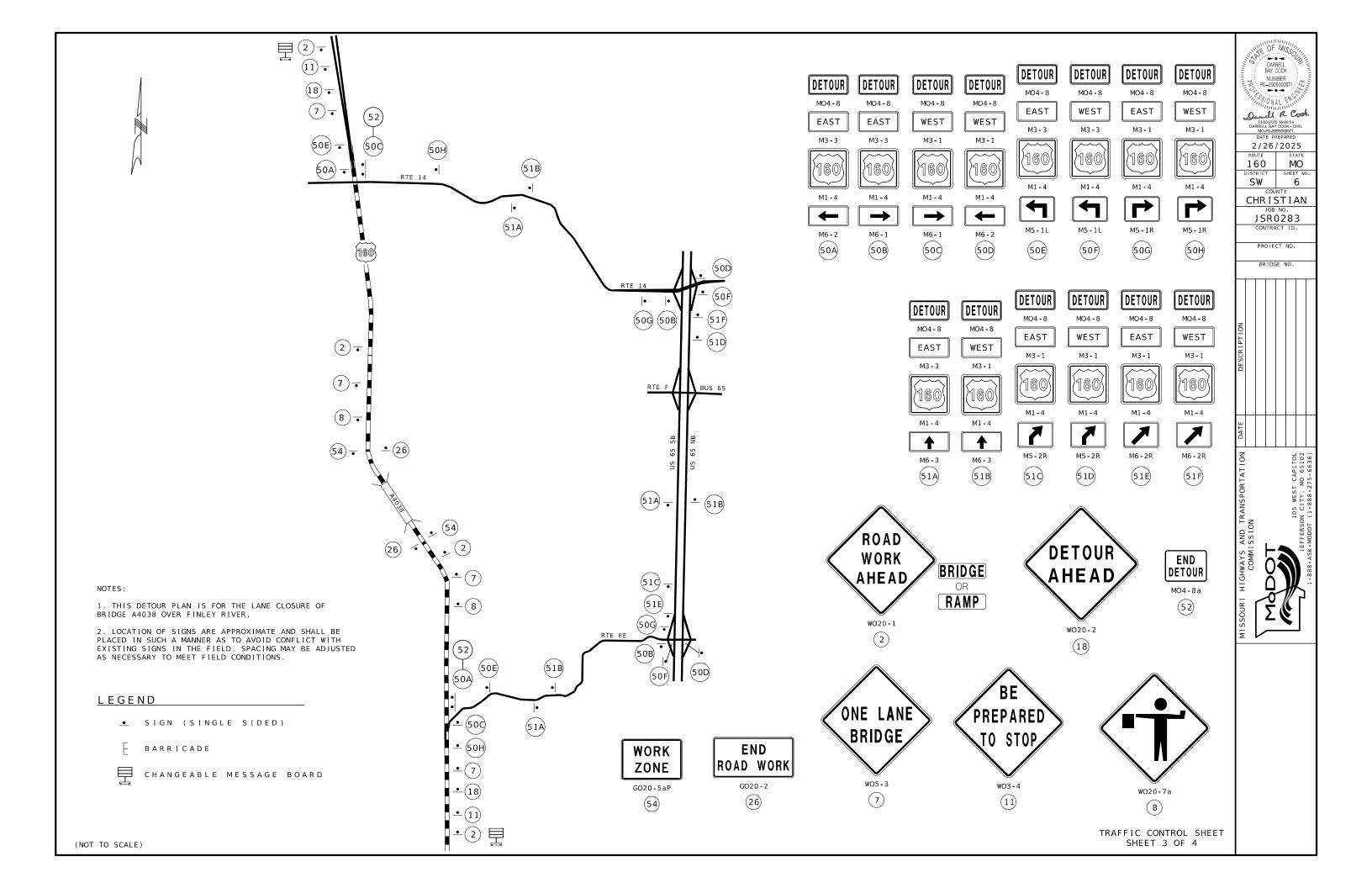
TRAFFIC CONTROL SHEET 2 OF 4

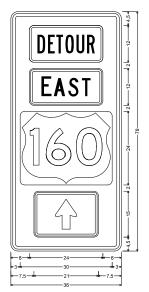
03/03/2025 16:00:30 DARRELL RAY COOK - CIVIL MO-PE-2005000971 DATE PREPARED 2/26/2025 160 MO SHEET NO SW 5 CHRISTIAN JSR0283 CONTRACT ID. PROJECT NO.

DARRELL RAY COOK NUMBER

Dunell R Cook

PE-200 PE

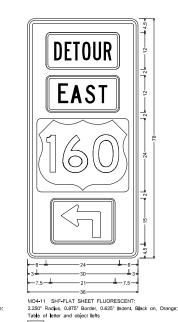




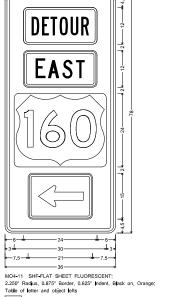
MO4-11 SHF-FLAT SHEET FLUORESCENT:
2.250" Radjus, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lets

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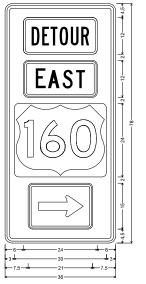
MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange; Table of letter and object lefts

DETOUR

EAST

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MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radjus, 0.875" Border, 0.625" Indent, Black on, Orange; Table of letter and object lefts





MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange Table of letter and object lefts





DARRELL RAY COOK NUMBER PE-200500097 SONAL ENG Dunell R Cook

2/26/2025

CHRISTIAN JSR0283

PROJECT NO.

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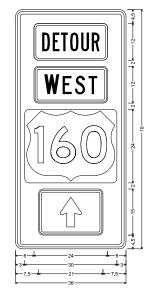
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SW

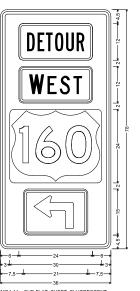
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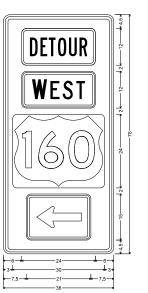
MO4-11 SHF-FLAT SHEET FLUORESCENT:
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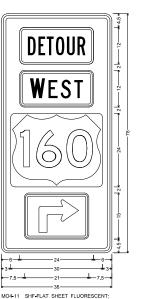
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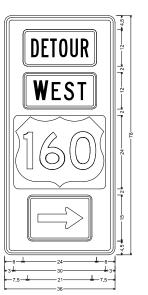
MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.825" Indent, Black on, Orange; Table of letter and object lefts 6.000 6.000 3.000





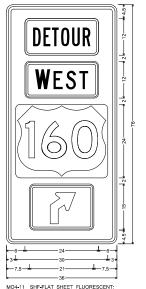
MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange; Table of letter and object lefts 6.000 6.000 3.000 7.500





MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange, Table of letter and object lefts





MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange; Table of letter and object lefts

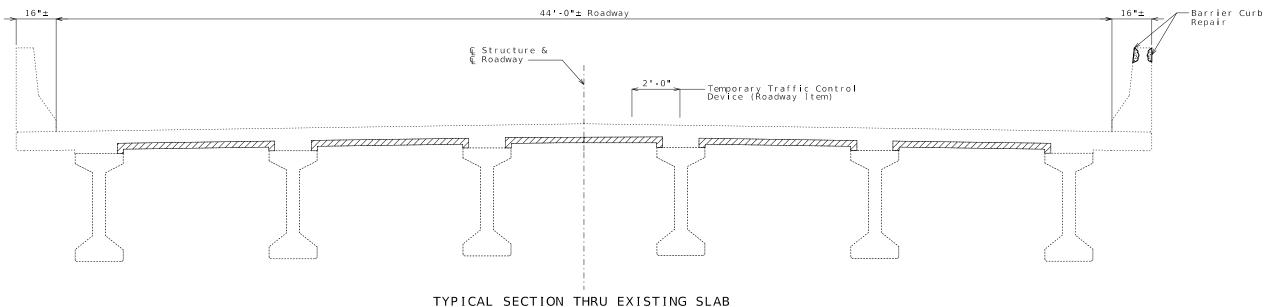


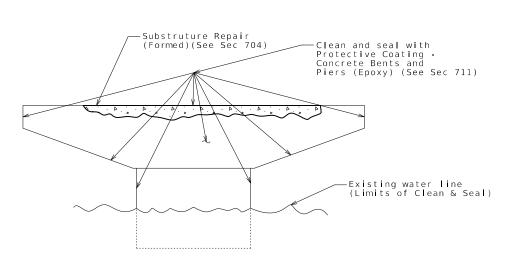


MO4-11 SHF-FLAT SHEET FLUORESCENT; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange; Table of letter and object lefts

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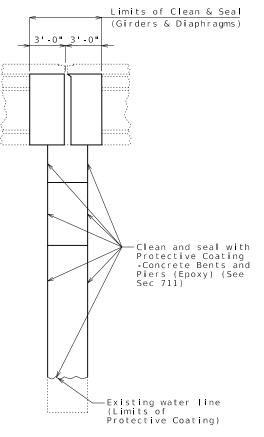
U.I.P. & REHABILITATE EXISTING (10 @ 75') PRESTRESSED CONCRETE I-GIRDER SPANS (SKEW: SQUARE)





PART ELEVATION AT INT. BENT NO. 6
SHOWING PROTECTIVE COATING

Estimated Quantities		
I t em		Total
Removal of Existing Expansion Joint & Adjacent Concrete	lin. foot	47
Remove and Replace Barrier Curb	lin. foot	8
Class B-2 Concrete	cu. yard	6
Substructure Repair (Formed)	sq. foot	60
Barrier Curb Repair	lin. foot	24
Reinforcing Steel (Epoxy Coated)	pound	420
Protective Coating - Concrete Bents ond Piers (Epoxy)	lump sum	1
Strip Seal Expansion Joint System	lin. foot	44



PART ELEVATION AT INT. BENT NO. 6
SHOWING PROTECTIVE COATING OF GIRDER
ENDS

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications Bridge Deck Rating = 7

Design Loading:

HS20-44 (1977 & New Construction) and Military 24,000 lb Tandem Axle (1977 & New Construction) Plus 15 lb/sq. ft. Future Wearing Surface

Design Unit Stresses:

Class B-1 Concrete (Barrier Curb Replacement & Barrier Curb Repair)
Class B-2 Concrete (Slab Replacement)
Reinforcing Steel (ASTM A615 Grade 60)
f'c = 4,000 psi
fy = 60,000 psi

Reinforcing Steel:

 $\label{lem:minimum} \mbox{Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.}$

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710 except that no measurement will be made for mechanical bar splices and they will be considered completely covered by the contract unit price for other items.

Concrete Protective Coatings:

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

Miscellaneous:

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.

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

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE 160 OVER FINLEY RIVER

ROUTE 160 FROM ROUTE 14 TO ROUTE EE ABOUT 4.1 MILES SOUTH OF ROUTE 14 BEGINNING STATION 399+25.00± (Match Existing) TED S. KOESTER NUMBER PE-2013000591

03/03/2025 8:20:17 AM TED S. KOESTER - CIVIL MO-PE-2013000591 DATE PREPARED 3/3/2025

ROUTE STATE
160 MO
DISTRICT SHEET NO.
BR 1

JOB NO.
JSR0283
CONTRACT ID.

PROJECT NO.

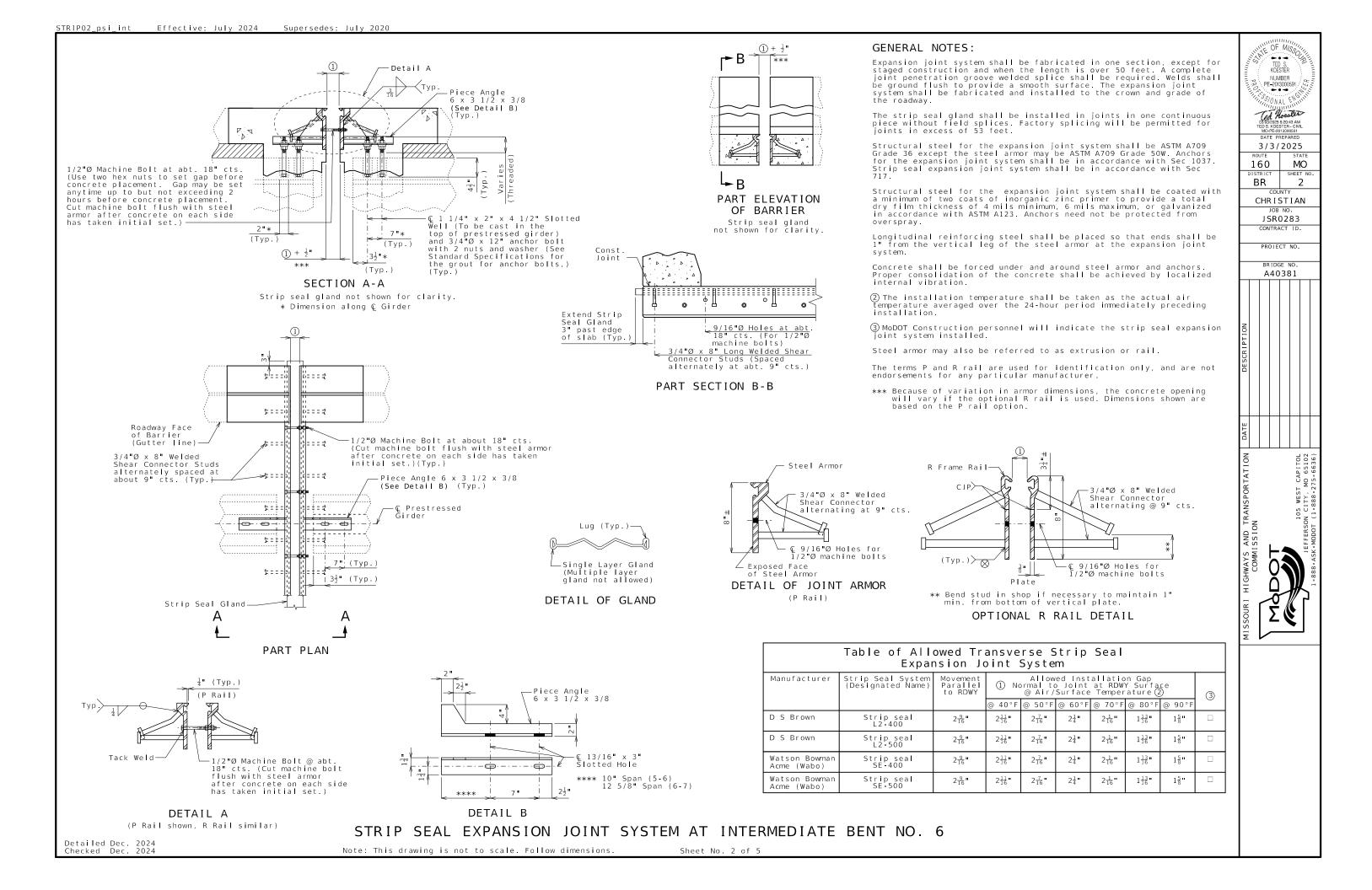
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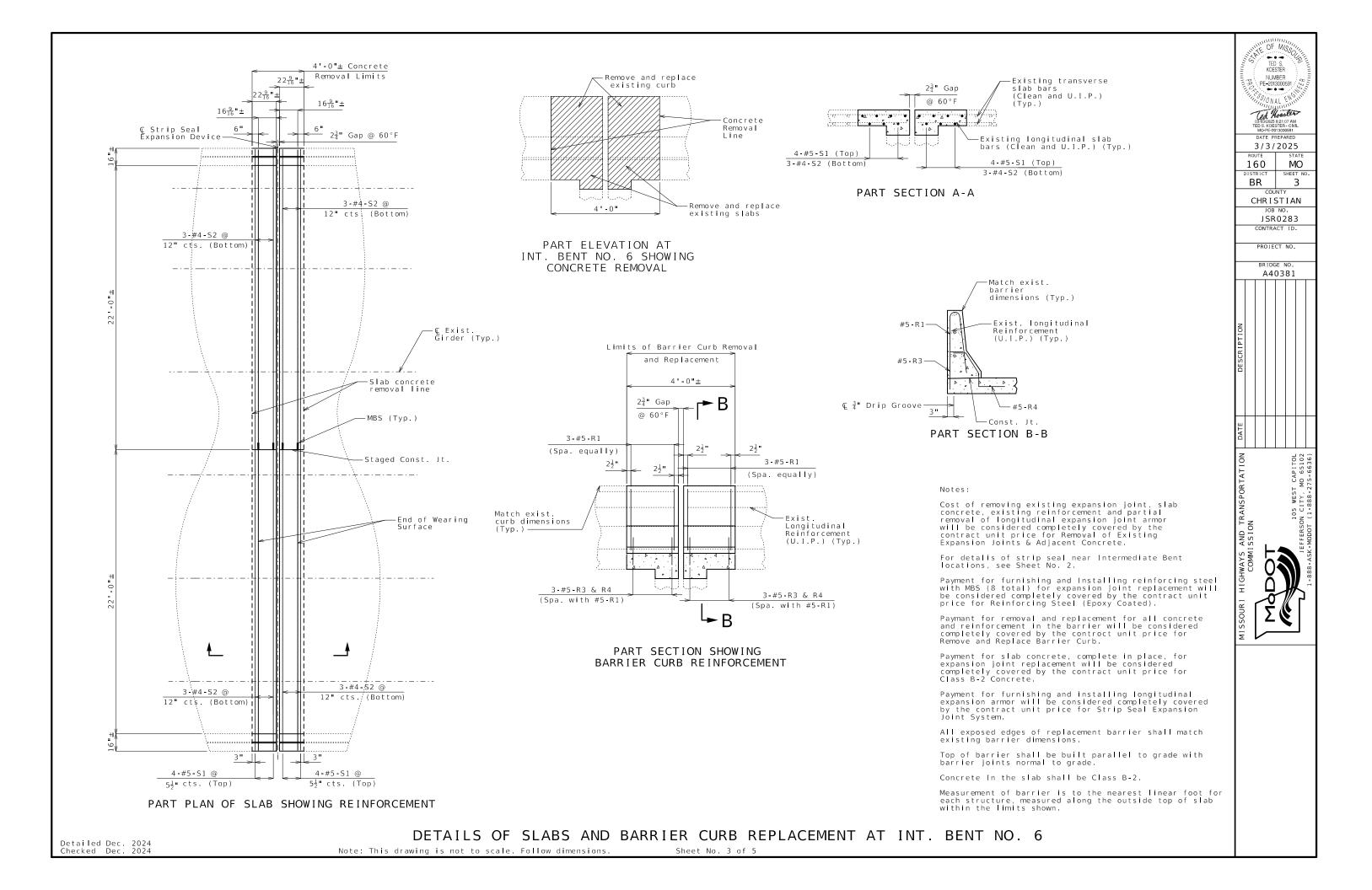
COMMISSION

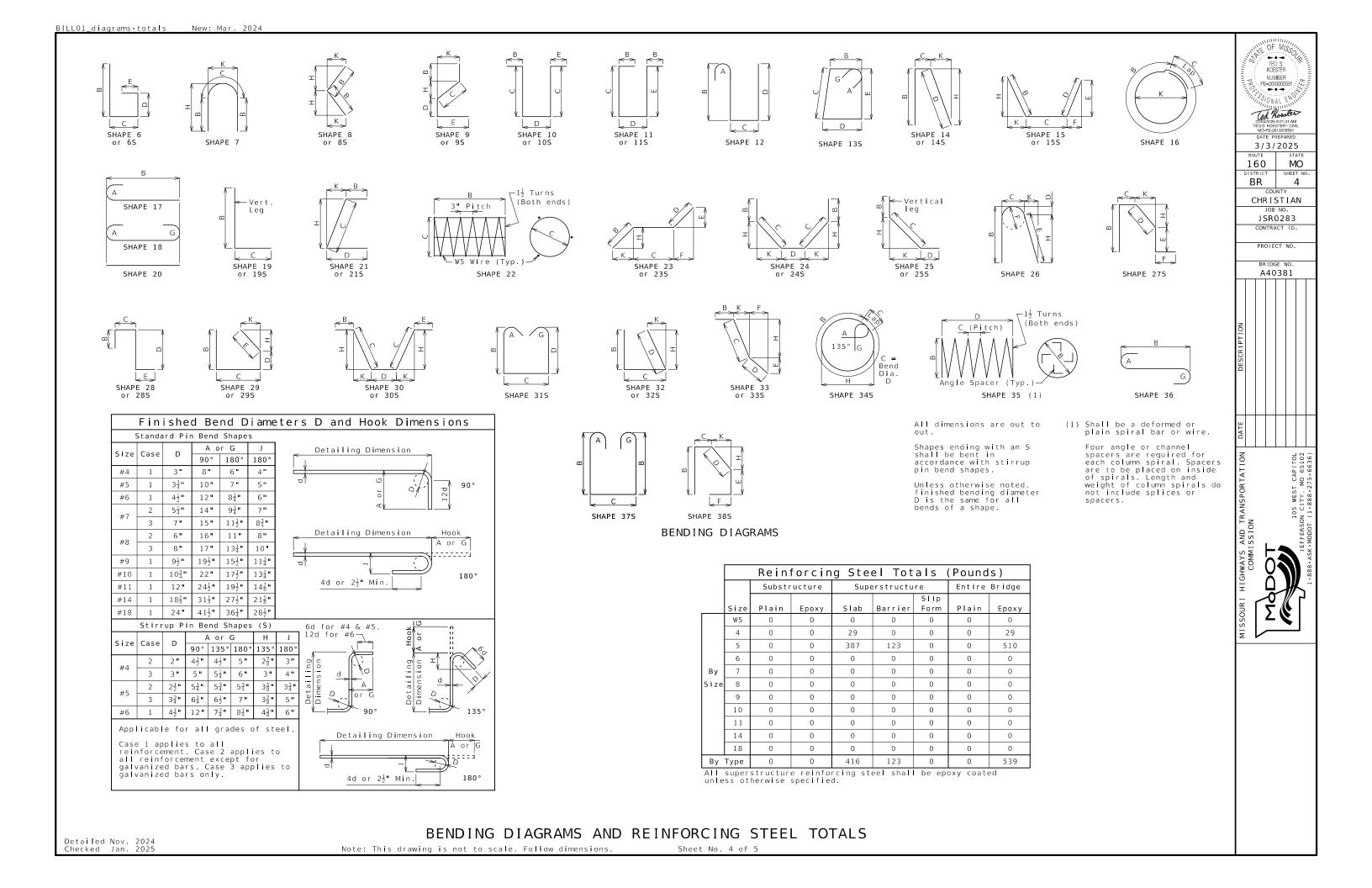
ODOT

105 WEST CAPITOL

LEFFERSON CITY, MO 65102







BILLO2 data New: Mar. 2024

		New. Mar. 20			Bill o	f Rei	nforci	ng Stee	e					1					Bill	of Reir	nforci	ng Steel			1	ULE OF A	MS.C.
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Nomin	al leng	gths are based ne nearest inch	on out to	out dim	ensions s	shown in	bending	diagrams a	and are			ا ا	1					Codes:	C = Requ	ired coat	ings, wh	ere E = Epoxy Co	ated and	G = Galvanized.	'		

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 4.

All bars shall be Grade 60.

SH = Required shape, see bending diagrams.

BILL OF REINFORCING STEEL

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

Detailed Nov. 2024 Checked Jan. 2025

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

Sheet No. 5 of 5