

**DESIGN DESIGNATION**

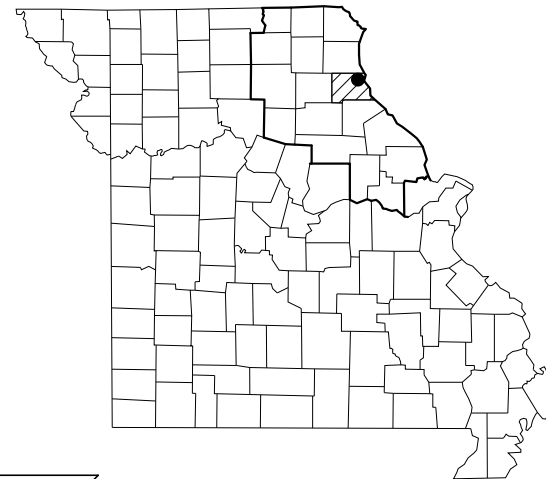
A.A.D.T. - 2016 = 3,050  
 A.A.D.T. - 2037 = 3,580  
 D.H.V. = 9%  
 T = 6%  
 V = 30 M.P.H.  
 D = 63%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

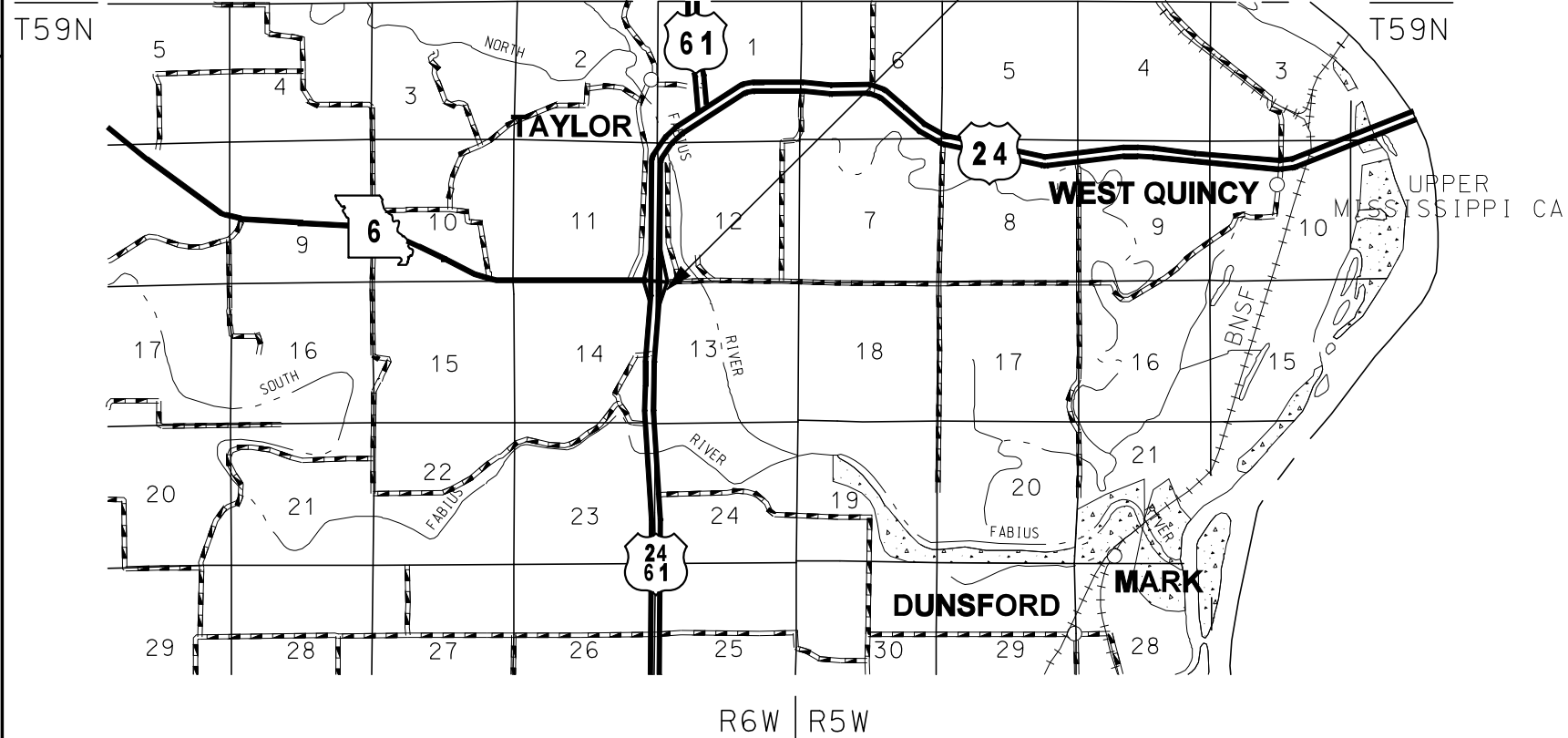
**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 PLANS FOR PROPOSED  
 STATE HIGHWAY**

NE DISTRICT  
 MARION COUNTY

MARION COUNTY  
 J2M0269  
 ROUTE 24-61/6 RAMP  
 SLIDE REPAIR



RAMP 3 - STA. 0+20 TO 2+00



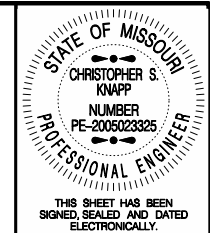
**CONVENTIONAL SYMBOLS  
 (USED IN PLANS)**

	EXISTING	NEW
BUILDINGS AND STRUCTURES	[Symbol]	[Symbol]
GUARD RAIL	[Symbol]	[Symbol]
CONCRETE RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
STEEL RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
LOCATION SURVEY MARKER	[Symbol]	[Symbol]
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD TELEPHONE	-T-	-T-
UNDERGROUND TELEPHONE	[Symbol]	[Symbol]
OVERHEAD POWER	-P-	-P-
UNDERGROUND POWER	[Symbol]	[Symbol]
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
WATER VALVE	[Symbol]	[Symbol]
WATER METER	[Symbol]	[Symbol]
DROP INLET	[Symbol]	[Symbol]
DITCH BLOCK	[Symbol]	[Symbol]
GROUND MOUNTED SIGN	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
H-FRAME POWER POLE	[Symbol]	[Symbol]
TELEPHONE PEDESTAL	[Symbol]	[Symbol]
FENCE		
CHAIN LINK	-V-	-V-
WOVEN WIRE	-X-	-X-
GATE POST	[Symbol]	[Symbol]
BENCHMARK	[Symbol]	[Symbol]

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (2 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4
TRAFFIC CONTROL SHEETS (TC)-----	5
EROSION CONTROL SHEETS (EC)-----	6
CROSS SECTIONS (XS)-----	1- 4



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED  
 3/28/2016

ROUTE STATE  
 24/61 MO  
 DISTRICT SHEET NO.  
 NE 1

COUNTY  
 MARION  
 JOB NO.  
 J2M0269  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

**LENGTH OF PROJECT**

BEGINNING OF PROJECT STA. 0+20.00  
 END OF PROJECT STA. 2+00.00

APPARENT LENGTH 180.00 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS 0.0 FEET  
 NET LENGTH OF PROJECT 180.00 FEET  
 STATE LENGTH 0.034 MILES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-278-6636)

TITLE SHEET

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SEEDING
LUMP SUM 1

CLEARING AND GRUBBING		
SHEET	ACRES	REMARKS
	(APPROX.)	
4	0.01	ROCK FILL & FLUME DRAIN AREA
TOTAL	1	LUMP SUM

REMOVAL OF IMPROVEMENTS			
SHEET	LOCATION	QUANTITY	DESCRIPTION
4	STA. 1+79 RT	1	CONC. STOP SIGN BASE
4	STA. 1+78 RT	1	DELINEATOR
4	STA. 0+86 RT	1	DELINEATOR
	TOTAL	1	LUMP SUM

EARTHWORK					
SHEET	BEGIN STATION	END STATION	ROADWAY	CL. A EXC. (CY)	REMARKS
4	0+20	1+60	RAMP 3	814	CL. A EXC. TO BE WASTED OFF RIGHT OF WAY
			TOTAL	814	

TYPE 1 ROCK DITCH LINER										
SHEET	STATION	STATION	LOC	ROADWAY	LENGTH	WIDTH	FURNISH ROCK	PLACING ROCK	PERM. EROSION CNTRL.	REMARKS
					FT.	FT.	DITCH LINER	DITCH LINER	GEOTEXTILE (SY)	
							(CU. YDS)	(CU. YDS.)		
4	1+60	2+09	RT.	RAMP 3	58	10	18	18	79	FLUME DRAIN
						TOTAL	18	18	79	

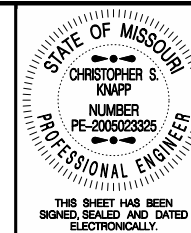
TYPE 2 ROCK DITCH LINER										
SHEET	STATION	STATION	LOC	ROADWAY	LENGTH	WIDTH	DEPTH	FURNISHING ROCK	PLACING ROCK	REMARKS
					FT.	FT.	FT.	DITCH LINER	DITCH LINER	
								(CU. YDS.)	(CU. YDS.)	
4	0+40	0+70	RT.	RAMP 3	30	10	2	22	22	
4	0+70	1+72	RT.	RAMP 3	112	22' AVG.	1	91	91	ADD'L TO BE PLACED WITH BROKEN UP PAVED DITCH
4	1+72	1+83	RT.	RAMP 3	32	24	2	57	57	
							TOTAL	170	170	

ROCK FILL				
SHEET	LOCATION	FURN. ROCK FILL	PLACING ROCK FILL	PERM. EROSION CNTRL.
		CU. YD.	CU. YD.	GEOTEXTILE (SY)
4	RAMP 3	1102	1102	1047
		1102	1102	1047

TEMPORARY EROSION CONTROL				
SHEET	SEDIMENT REMOVAL	ROCK DITCH CHECK	TYPE C BERM	REMARKS
	CY	LF	LF	
6	5	18	148	
TOTAL	5	18	148	

MOBILIZATION
LUMP SUM 1

CONTRACTOR FURNISHED SURVEYING AND STAKING
LUMP SUM 1



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2016

ROUTE 24/61 STATE MO

DISTRICT NE SHEET NO. 3

COUNTY MARION

JOB NO. J2M0269

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

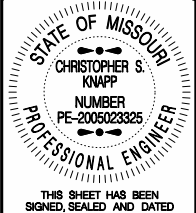
1-888-ASK-MODOT (1-888-275-6636)

QUANTITY SHEET SHEET 1 OF 2

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION	SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
<b>WARNING SIGNS</b>															
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)	WO20-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)	WO20-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)	WO20-7a	48X48	16.00					FLAGGER (SYMBOL) WITH FLAGS
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)	WO21-2	36X36	9.00					FRESH OIL
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)	WO21-5b	48X48	16.00	2	32			SHOULDER WORK AHEAD (21)
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)	WO22-1	48X48	16.00					BLASTING ZONE AHEAD
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)	WO22-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)	WO22-3	42X36	10.50					END BLASTING ZONE
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)	WO22-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)	<b>GUIDE SIGNS</b>							
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)	SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)	E05-1	36X48	12.00					GORE EXIT
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)	E05-2	48X36	12.00					EXIT OPEN
WO1-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)	E05-2a	48X36	12.00					EXIT CLOSED
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	GO20-1	60X24	10.00					ROAD WORK NEXT XX MILES
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)	GO20-2	48X24	8.00					END ROAD WORK
WO1-8	18X24	3.00					CHEVRON (SYMBOL)	GO20-4	36X18	4.50					PILOT CAR FOLLOW ME
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)	GO20-5aP	36X24	6.00					WORK ZONE (PLAQUE)
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)	MO4-8a	24X18	3.00					END DETOUR
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)	MO4-9L	48X36	12.00					DETOUR (LEFT ARROW)
WO3-4	48X48	16.00					BE PREPARED TO STOP	MO4-9R	48X36	12.00					DETOUR (RIGHT ARROW)
WO3-5	48X48	16.00					SPEED LIMIT AHEAD	MO4-10L	48X18	6.00					DETOUR (ARROW LEFT)
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)	MO4-10R	48X18	6.00					DETOUR (ARROW RIGHT)
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)	<b>REGULATORY SIGNS</b>							
WO5-1	48X48	16.00	1	16			ROAD/BRIDGE/RAMP NARROWS (34)	R1-1	48X48	13.25	1	13.25			STOP (41)
WO5-3	48X48	16.00					ONE LANE BRIDGE	R1-2	48 TRI.	6.93					YIELD
WO5-5	48X48	16.00					NARROW LANES	R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)	R1-3	20X9	1.25					X-WAY (PLAQUE)
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)	R2-1	36X48	12.00					SPEED LIMIT
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)	R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)	R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
WO8-1	48X48	16.00					BUMP	R3-3	36X36	9.00					NO TURNS
WO8-2	48X48	16.00					DIP	R3-4	48X48	16.00					NO U-TURN (SYMBOL)
WO8-3	48X48	16.00					PAVEMENT ENDS	R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
WO8-4	48X48	16.00					SOFT SHOULDER	R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)	R4-1	36X48	12.00					DO NOT PASS
WO8-6	48X48	16.00					TRUCK CROSSING WITH FLAGS	R4-2	36X48	12.00					PASS WITH CARE
WO8-6c	48X48	16.00					TRUCK ENTRANCE	R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
WO8-7	36X36	9.00					LOOSE GRAVEL	R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
WO8-9	48X48	16.00					LOW SHOULDER	R5-1	30X30	6.25					DO NOT ENTER
WO8-11	48X48	16.00					UNEVEN LANES	R5-1a	36X24	6.00					WRONG WAY
WO8-12	48X48	16.00					NO CENTER LINE	R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
W10-1	42 RND.	9.62					RAILROAD CROSSING	R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
WO12-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)	R6-2L	24X30	5.00					ONE WAY (LEFT)
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)	R6-2R	24X30	5.00					ONE WAY (RIGHT)
WO12-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)	R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)	R11-2	48X30	10.00					ROAD CLOSED
WO8-15	48X48	16.00					GROOVED PAVEMENT	R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
WO8-15p	30X24	5.00					MOTORCYCLE (PLAQUE)	R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
WO8-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)	S4-4	36X15	3.75					WHEN FLASHING
WO8-17p	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)	CONST-3A	60X48	20.00					FINE SIGN
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD	CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	<b>MISCELLANEOUS SIGNS</b>							
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)	SPECIAL	96X48	32.00					ROAD CLOSED DATE (SEE SIGNING SHEET)
WO16-2	30X24	5.00					XXX FEET (PLAQUE)	CONST-7-72	72X36	18.00					RATE OUR WORK ZONE
WO16-3	30X24	5.00					X MILE (PLAQUE)	WO20-3a	48X48	16.00					ROAD CLOSED 500 FT
WO20-1	48X48	16.00	2	32			ROAD/BRIDGE/RAMP WORK AHEAD (2)	SPECIAL	48X96	32.00					NUMBERED RTE CLOSED AHEAD XX MILES
WO20-2	48X48	16.00					DETOUR AHEAD	SPECIAL	36X60	15.00					LETTERED ROUTE ASSEMBLY
WO20-3	48X48	16.00					ROAD CLOSED AHEAD	616-10.05	CONSTRUCTION SIGNS TOTAL 93.25						
WO20-4	48X48	16.00					ONE LANE ROAD AHEAD	616-10.10							
WO20-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD	RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161009	2	FLAG ASSEMBLY
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	16	CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING



STATE OF MISSOURI  
CHRISTOPHER S. KNAPP  
NUMBER PE-200502325  
PROFESSIONAL ENGINEER  
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED  
3/30/2016

ROUTE STATE  
24/61 MO

DISTRICT SHEET NO.  
NE 3

COUNTY  
MARION


JOB NO.  
J2M0269

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

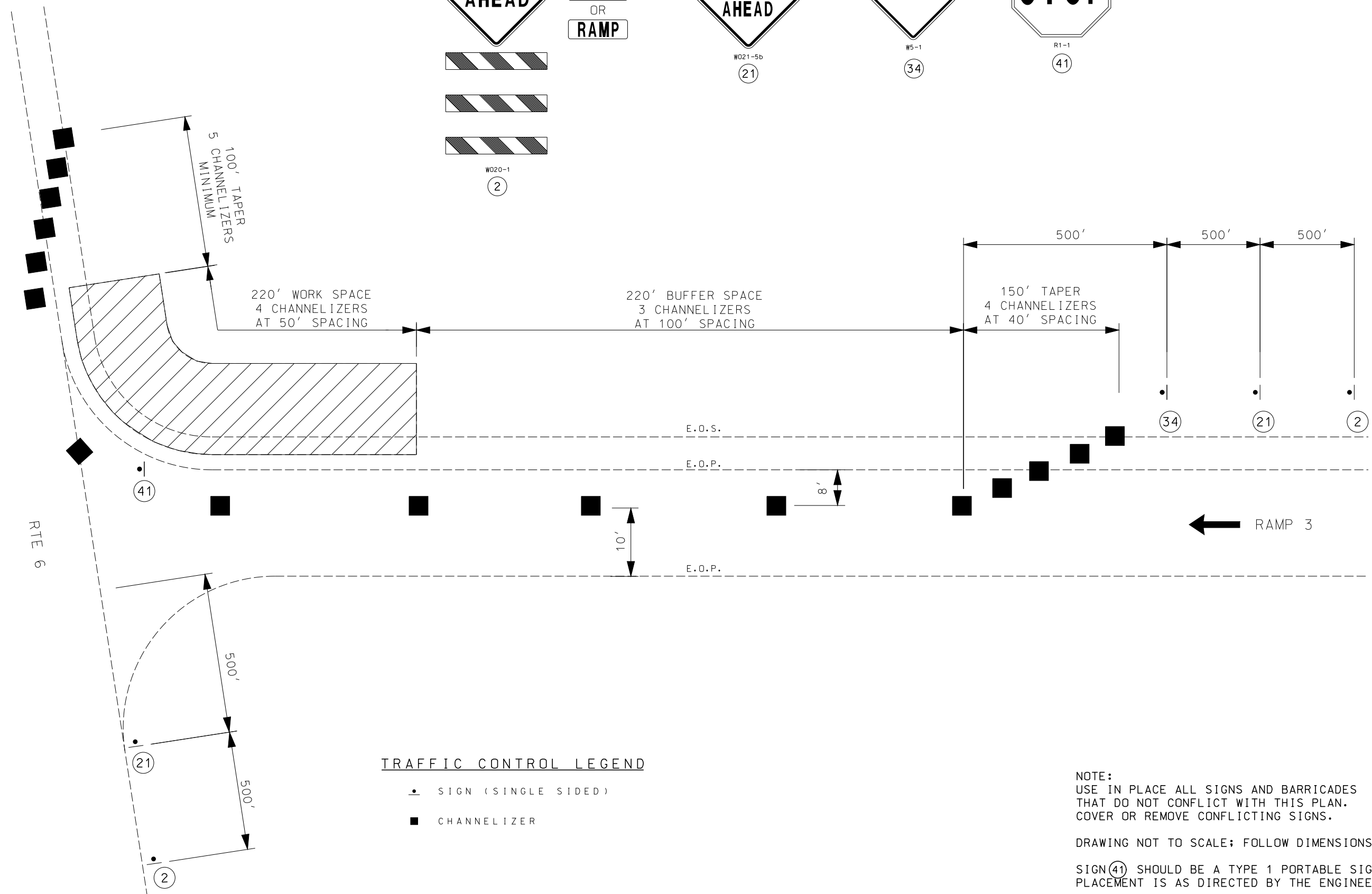
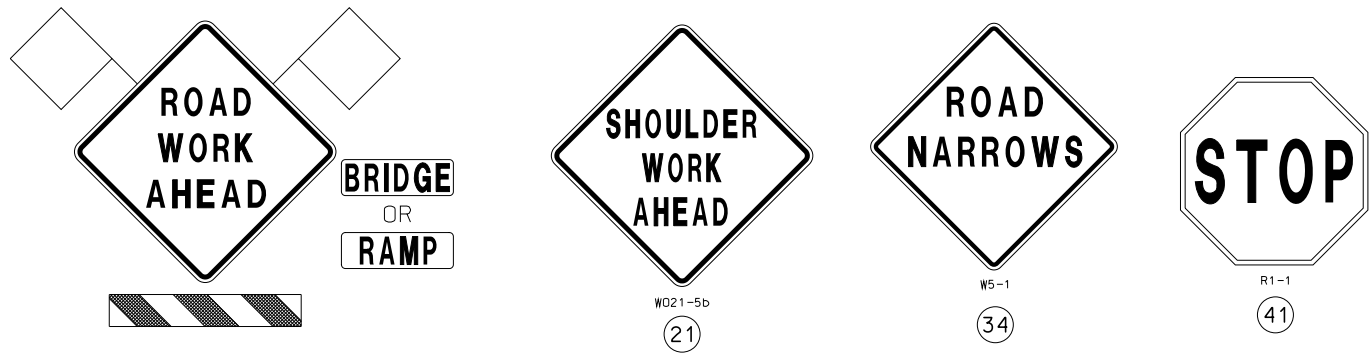


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

QUANTITY SHEET  
SHEET 2 OF 2

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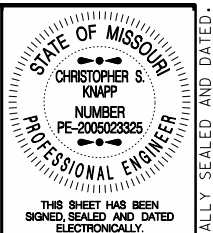
**TRAFFIC CONTROL LEGEND**

- SIGN (SINGLE SIDED)
- CHANNELIZER

**NOTE:**  
 USE IN PLACE ALL SIGNS AND BARRICADES THAT DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.

DRAWING NOT TO SCALE; FOLLOW DIMENSIONS.

SIGN (41) SHOULD BE A TYPE 1 PORTABLE SIGN PLACEMENT IS AS DIRECTED BY THE ENGINEER



DATE PREPARED: 3/7/2016  
 ROUTE: 24/61 STATE: MO  
 DISTRICT: NE SHEET NO.: 5  
 COUNTY: MARION  
 JOB NO.: J2M0269  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL PLAN  
 SHEET 1 OF 1

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