#### DESIGN DESIGNATION

A.A.D.T. - 2016 = 56649 A.A.D.T. - 2036 = 69122 T = 3.4%V = 60 M.P.H.

FUNCTIONAL CLASSIFICATION - INTERSTATE

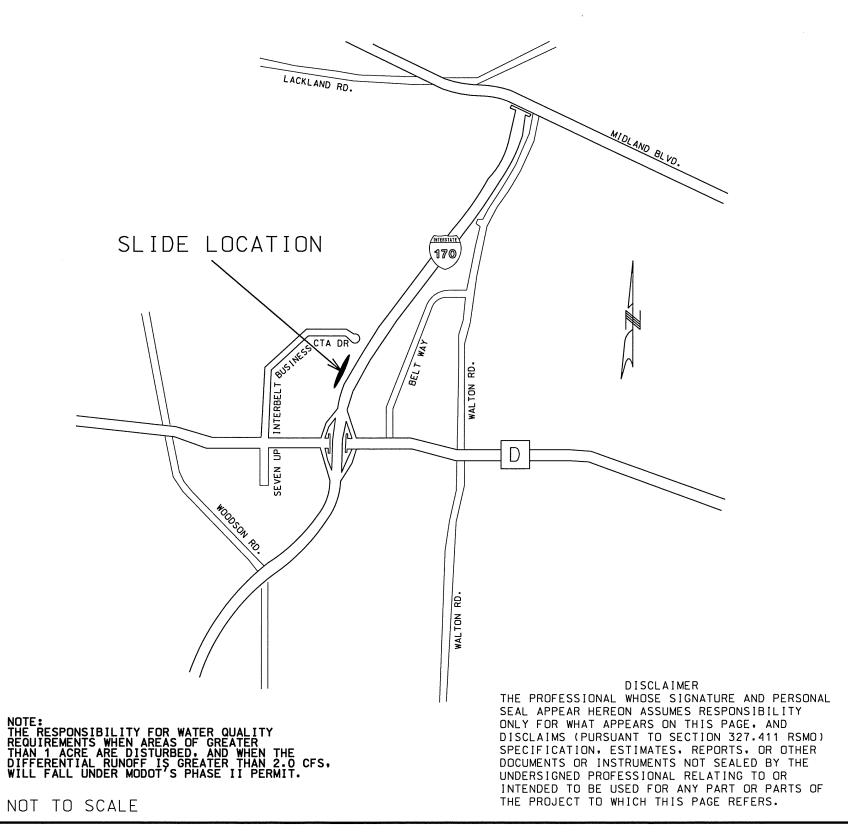
# NO NEW R/W WILL BE ACQUIRED ON THIS PROJECT.

## CONVENTIONAL SYMBOLS

TOSED IN LEMMS	, ,	
	EXISTING	NE W
BUILDINGS AND STRUCTURES GUARD RAIL CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	00000 101 101 101	0
FIBER OPTICS OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER GAS WATER	-F0- 	F0 
MANHOL E	SAN	)
FIRE HYDRANT WATER VALVE	HYD O	
WATER METER	₩₩	
DROP INLET	,,	
DITCH BLOCK	-	-
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		]
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE	PED $\triangle$	
CHAIN LINK WOVEN WIRE GATE POST	——v ——x ⊠	
BENCHMARK	BM⊗	)

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR SLIDE REPAIR AT I-170 SB

## ST. LOUIS COUNTY



INDEX OF SHEET	S SHEET NUMBER		HIS MED IT BE C A CER DOCUM	ONS I	DEF ED	
TITLE SHEET  TYPICAL SECTIONS (TS)  OUANTITIES (OU)  PLAN-PROFILE (PP)  TRAFFIC CONTROL SHEETS (TC)  EROSION CONTROL SHEET (TC)	Olyn Charles	I-1	JOB WRSL CONTRA	JNTY LOL NO. 17	MI STA MI	O No.
BARRY M BERGMAN NUMBER E-17867 B/8/16	MIN	DATE DESCRIPTION	BRIDG	3E NI		
LENGTH OF PROJECT  BEGINNING OF PROJECT APPROX ST  END OF PROJECT APPROX ST	A 425+75	MISSOURI HIGHWAYS AND TRANSPORTATION D.			5	JEFFERSON C1TY. MO 65102 1-888-ASK-MODOT (1-888-275-6636)
				IILE SHEE!		

001\_TITLE\_I-170SB\_nearD.dgn 12:34:01 PM 8/3/2016

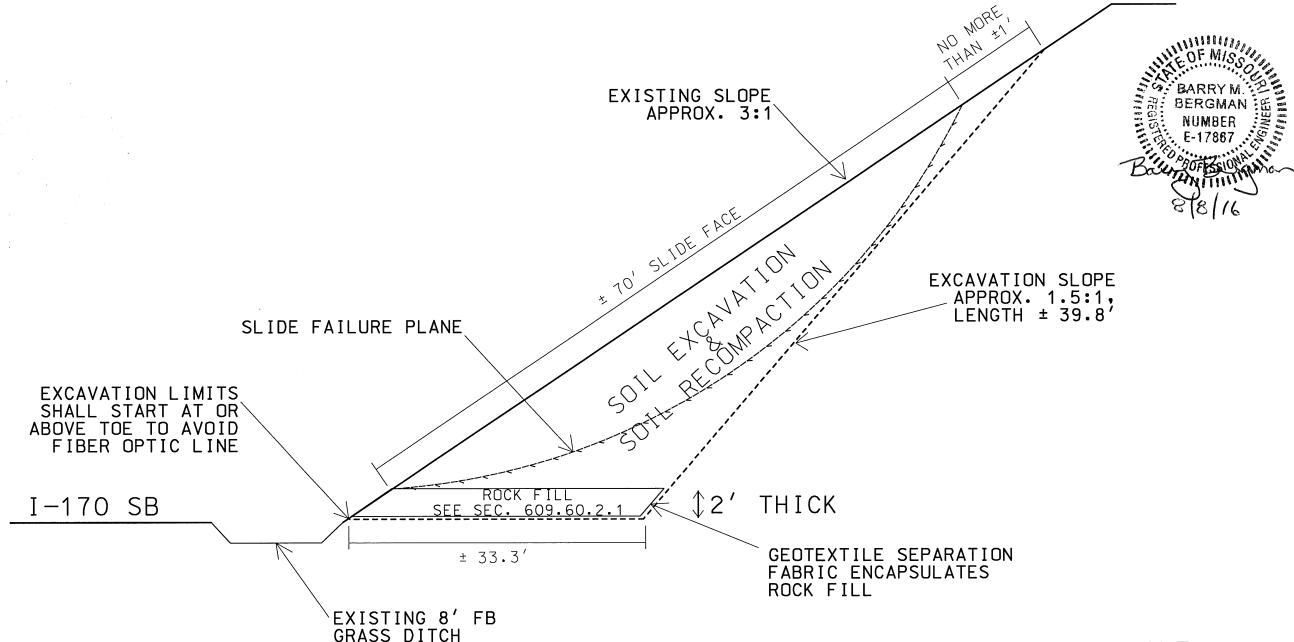
71 FEET

0.013 MILES

NET LENGTH OF PROJECT

STATE LENGTH

# SOIL REPLACEMENT WITH DRAIN BLANKET



NOTE: DIMENSIONS ARE APPROXIMATE. LIMITS OF WORK TO BE DETERMINED BY ENGINEER OR GEOLOGIST. EXCAVATION AREA SHALL NOT EXTEND MORE THAN 1' BEYOND TOP OF SLIDE. SEE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 609.60.2.1 FOR ROCK FILL DETAILS.

NOT TO SCALE

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"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED

8/3/2016

ROUTE

1-170 SB MO

DISTRICT

SL 2

COUNTY

ST. LOUIS

JOB NO.
WRSL 170A
CONTRACT ID.

PROJECT NO.

BRIDGE NO

DATE DESCRIPTION

HIGHWAYS AND TRANSPORTATION COMMISSION

DOT

105 WEST CAPITOL

TYPICAL SECTION SHEET 1 OF 1

#### MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**SUMMARY OF QUANTITIES** 

	EARTHWORK **										
PLAN SHEET NO:	STATION	CLASS A EXCAVATION	COMPACTING EMBANKMENT	FURNISHING ROCK FILL	PLACING ROCK FILL	GEOTEXTILE (SEPARATION)					
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)					
4	425+75 TO 426+46	970.0	970.0	221.4	221.4	594.0					
	SUBTOTAL	970.0	970.0	221.4	221.4	594.0					
	TOTAL	970.0	970.0	222.0	222.0	594.0					

HILE OF MISSON	
3/10	
	MEEH
NUMBER :: E-17867	2/NE
Bossing	
Same.	
878/16	

ST. LOUIS
JOB NO.
WRSL170A
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

8/3/2016

MΟ

-170 SB

DISTRICT

DESCRIPTION					
DATE					
NO!			101	102	36)

105 WEST CAPITOL

ISSOURI HIGHWAYS AND TRANCOMMISSION
COMMISSION

SHEET 1 OF 2 QUANTITY SUMMARY SHEET

	TEMPORARY EROSION CONTROL *									
PLAN	STATION	SEDIMENT	SILT	TYPE I						
SHEET		REMOVAL	FENCE	DITCH						
NO.				CHECK						
		(CU YD)	(LF)	(LF)						
			·							
7	423+58 TO 427+58	8.0	91.0	88.0						
	SUBTOTAL	8.0	91.0	88.0						
	TOTAL	8.0	91.0	88.0						

COOL	SEASON	SEED	WITH	TYPE	1	EROSION	CONTROL	BLANKET
	PAY	TOTAL				1	LUMP SUM	

7.1.

TRAFFIC CONTROL

PAY TOTAL 1 LUMP SUM

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MOBILIZATION

PAY TOTAL 1 LUMP SUM

\* STATIONS ARE APPROXIMATE. QUANTITIES BASED ON EXCAVATED AREA OF 22.1'' BACKSIDE HEIGHT, 33.3' BASE, AND A REPAIR LENGTH OF 71'. THESE DIMENSIONS MAY BE INCREASED OR DECREASED BY THE ENGINEER BASED ON THE FIELD CONDITIONS. ADDITIONS OR DEDUCTIONS TO PLAN QUANTITIES WILL BE MADE AT THE CONTRACT UNIT PRICE.

DISCLAIMER

DESCRIPTION

RELOCATE OR COVER/UNCOVER EXISTING OR TCP SIGNS.

\*\*NOTE: TRAFFIC CONTROL DEVICES SHALL BE PAID FOR AS LUMP SUM.

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ITEM TOTAL

NUMBER QTY

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

		THE PERSON NAMED IN COLUMN				
DATE PREPARED						
8/3/2016						
ROUTE STATE						
I-170 SB	1410	:				
DISTRICT	SHEET NO.	ľ				
SL	3	į				
COUNTY						
	LOUIS					
JOB	NO.	ŀ				
	170A	!				
CONTRA	CT ID.	ı,				
PROJE	CT NO.					
		ı.				

S SHEETS OF 2 QUANTITY SHEET 2

WU1-4L	48848	16.00		 REVERSE CURVE (SYMBUL LEFT ARRUW)	11022 2	42,730			TORN OFF 2 WAT RADIO AND FRONE	——   NUMBER   '	QTY   DESCRIPTION
WO1-4R	48X48	16.00		REVERSE CURVE (SYMBOL RIGHT ARROW)	W022-3	42X36	10.50		END BLASTING ZONE	6122008	IMPACT ATTENUATOR (8 SAND BARRELS)
WO1-4bL	48X48	16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL	W022-6e	21X15	2.19		WET PAINT (ARROW PIVOTS)	6122009	IMPACT ATTENUATOR (9 SAND BARRELS)
				LEFT ARROWS)				GUIDE SIG	SNS	6122010	IMPACT ATTENUATOR (10 SAND BARRELS)
WO1-4bR	48X48	16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL	SPECIAL	36X36	9.00		FRESH OIL/LOOSE GRAVEL	6122012	IMPACT ATTENUATOR (12 SAND BARRELS)
				 RIGHT ARROWS)	E05-1	36X48	12.00		GORE EXIT	6122014	IMPACT ATTENUATOR (14 SAND BARRELS)
WO1-4cL	48X48	16.00	[	TRIPLE ARROW REVERSE CURVE (SYMBOL	E05-2	48X36	12.00		EXIT OPEN	6122017	IMPACT ATTENUATOR (17 SAND BARRELS)
				LEFT ARROWS)	E05-2a	48X36	12.00		EXIT CLOSED	6122019	IMPACT ATTENUATOR (19 SAND BARRELS)
W01-4cR	48X48	16.00	1	TRIPLE ARROW REVERSE CURVE (SYMBOL	G020-1	60X24	10.00		ROAD WORK NEXT XX MILES	6122020	REPLACEMENT SAND BARREL
			4.1	 RIGHT ARROWS)	G020-2	48X24	8.00		END ROAD WORK	6122030	IMPACT ATTENUATOR (RELOCATION)
WO1-6	60X30	12.50	į	 HORIZONTAL ARROW (SYMBOL)	G020-4	36X18	4.50		PILOT CAR FOLLOW ME	6123000A	1 TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
WO1-6a	72X36	18.00		HORIZONTAL ARROW (SYMBOL ON PERMANENT	SPECIAL	42X30	8.75		PLEASE WAIT FOR PILOT CAR	6161007	SPEED LIMIT AND STROBE LIGHT ASSEMBLY
				 BARRICADE)	G020-5aF	+		12.00	WORK ZONE (PLAQUE)		10 ADVANCED WARNING RAIL SYSTEM
WO1-7	60X30	12.50		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-8a	24X18	3.00	12:00	END DETOUR	6161009	4 FLAG ASSEMBLY
W01-7a	72X36	18.00		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-80 MO4-9L	48X36	12.00		DETOUR (LEFT ARROW)	6161020	CHANNELIZER (DRUM-LIKE)
WO1 9	10724	7 00		 CHEVRON (SYMBOL)	1}					6161022	CHANNELIZER (CONES)
WO1 -8	18X24	3.00			MO4-9R MO4-10L	48X36	12.00		DETOUR (RIGHT ARROW)	6161024	CHANNELIZER (TRIM LINE) WITH LIGHT
W07-8a	30X36	7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		48X18	6.00		DETOUR (ARROW LEFT)		28 CHANNELIZER (TRIM LINE)
W03-1	48X48	16.00		STOP AHEAD (SYMBOL)	M04-10R	48X18	6.00		DETOUR (ARROW RIGHT)	6161026	CHANNELIZER (VERTICAL PANEL)
WO3-2	48X48	16.00		 YIELD AHEAD (SYMBOL)	<b> </b>					6161027	CHANNELIZER (VERTICAL PANEL) WITH LIGHT
WO3-3	48X48	16.00		SIGNAL AHEAD (SYMBOL)						6161028	CHANNELIZER CHANGE TANCE TO THE CONTROL OF THE CONT
WO3-4	48X48	16.00		BE PREPARED TO STOP						6161030	TYPE III MOVEABLE BARRICADE
WO3-5	48X48	16.00		 SPEED LIMIT AHEAD							TYPE III MOVEABLE BARRICADE WITH LIGHT
WO4-1L	48X48	16.00	1 16.00	MERGE (SYMBOL FROM LEFT)	<u> </u>			REGULATORY :	SIGNS	6161031 6161033	14 DIRECTION INDICATOR BARRICADE
WO4-1R	48X48	16.00		MERGE (SYMBOL FROM RIGHT)	R1-1	48X48	13.25		STOP	6161033	DIRECTION INDICATOR BARRICADE, WITH LIGHT
WO5-1	48X48	16.00		 ROAD/BRIDGE/RAMP NARROWS	R1-2	48 TRI.	6.93		YIELD		A
WO5-3	48X48	16.00		ONE LANE BRIDGE	R1-2a	36X36	9.00		TO ONCOMING TRAFFIC (PLAQUE)	6161040	1 FLASHING ARROW PANEL TYPE III OBJECT MARKER
WO5-5	48X48	16.00		NARROW LANES	R1-3	20X9	1.25		X-WAY (PLAQUE)	6161047 6161051	WARNING LIGHT, TYPE A
WO6-1	48X48	16.00		DIVIDED HIGHWAY (SYMBOL)	R2-1	36X48	12.00 4	48.00	SPEED LIMIT XX	6161052	WARNING LIGHT, TYPE B
WO6-2	48X48	16.00		DIVIDED HIGHWAY END (SYMBOL)	R3-1	48X48	16.00	10100	NO RIGHT TURN (SYMBOL)	6161053	ALCO
WO6-3	48X48	16.00		TWO WAY TRAFFIC (SYMBOL)	R3-2	48X48	16.00		NO LEFT TURN (SYMBOL)	6161055	WARNING LIGHT, TYPE C SEQUENTIAL FLASHING WARNING LIGHT
W07-3a	30X24	5.00		NEXT XX MILES (PLAQUE)	R3-3	36X36	9.00		NO TURNS	6161070	TUBULAR MARKER
WO8-1	48X48	16.00		ВИМР	R3-4	48X48	16.00		NO U-TURN (SYMBOL)	6161095	RADAR SPEED ADVISORY SYSTEM
WO8-2	48X48	16.00		DIP	R3-7L	30X30	6.25	<del>-        </del>	LEFT LANE MUST TURN LEFT	_	CHANGEABLE MESSAGE SIGN, COMMISSION
WO8-3	48X48	16.00		PAVEMENT ENDS	R3-7R	30X30	6.25		RIGHT LANE MUST TURN RIGHT	6161096	1** FURNISHED/RETAINED
WO8-4	48X48	16.00		SOFT SHOULDER	R4-1	36X48	12.00		DO NOT PASS	6161098A	
WO8-5	48X48	16.00		SLIPPERY WHEN WET (SYMBOL)	R4-2	36X48	12.00		PASS WITH CARE		CHANGEABLE MESSAGE SIGN WITHOUT COMMUNICATION INTERFACE, CONTRACTOR
WO8-6	48X48	16.00		TRUCK CROSSING WITH FLAGS	R4-7aL	36X48	12.00		KEEP LEFT (HORIZONTAL ARROW)		FURNISHED/RETAINED
WO8-6c	48X48	16.00		TRUCK ENTRANCE	R4-7a	36X48	12.00		KEEP RIGHT (HORIZONTAL ARROW)	5454000	A SAMONDO PARA PARA PARA PARA PARA PARA PARA PAR
WO8-7	36X36	9.00		LOOSE GRAVEL	R5-1	30X30	6.25	+ + + + + + + + + + + + + + + + + + + +	DO NOT ENTER	6161099	CHANGEABLE MESSAGE SIGN WITH
WO8-9	48X48	16.00		 LOW SHOULDER	R5-1a	36X24	6.00		WRONG WAY		COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO8-11	48X48	16.00		UNEVEN LANES	R6-1L	<del>                                     </del>				54500004	
WO8-12	48X48	16.00		 NO CENTER LINE		48X18	6.00		ONE WAY ARROW (LEFT)	6162000A	WORK ZONE TRAFFIC SIGNAL SYSTEM CONTRACTOR FURNISHED/RETAINED TEMPORARY
W10-1	42 RND.	9.62		 RAILROAD CROSSING	R6-1R	48X18	6.00		ONE WAY ARROW (RIGHT)	6173600D	TRAFFIC BARRIER
WO12-1	24X24	4.00		 DOUBLE DOWN ARROW (SYMBOL)	R6-2L	24X30	5.00		ONE WAY (LEFT)	6173602B	CONTRACTOR FURNISHED/COMMISSION RETAINED
WO12-2	48X48	16.00		 LOW CLEARANCE (SYMBOL)	R6-2R	24X30	5.00		ONE WAY (RIGHT)		TEMPORARY TRAFFIC BARRIER
W012-2x		3.00		LOW OF SADAMOS ADJACUS	R10-6	24X36	6.00		STOP HERE ON RED (45° ARROW)	6174000A	TEMPORARY TRAFFIC BARRIER HEIGHT
W012-2a	84X24			 OVERHEAD LOW CLEARANCE (FEET AND	R11-2	48X30			ROAD CLOSED	U114000A	TRANSITION
				INCHES)	R11-3a	60X30	12.50		ROAD CLOSED XX MILES AHEAD LOCAL	6175010A	RELOCATING TEMPORARY TRAFFIC
WO8-15	48X48	16.00		GROOVED PAVEMENT					TRAFFIC ONLY		BARRIER
WO8-15p	30X24	5.00		MOTORCYCLE (PLAQUE)	R11-4	60X30			ROAD CLOSED TO THRU TRAFFIC	6176000B	COMMISSION FURNISHED/RETAINED TEMPORARY
WO8-17	48X48	16.00		 SHOULDER DROP-OFF (SYMBOL)	S4-4	36X15	3.75		WHEN FLASHING		TRAFFIC BARRIER
W08-17p		5.00		SHOULDER DROP-OFF (PLAQUE)	CONST-3/	60X48	20.00		FINE SIGN	6177000B	COMMISSION FURNISHED/RETAINED TEMPORARY
SPECIAL		50.00		LOW CLEARANCE XX FT XX IN XX MILES	CONST-3>	56X12	4.67		SPEEDING/PASSING (PLATE)		TRAFFIC BARRIER HEIGHT TRANSITION
				AHEAD						9019400	TEMPORARY LIGHTING
SPECIAL	120X60	50.00		WIDTH RESTRICTION XX FT XX IN XX MILES				MISCELLANEOUS	SIGNS	9029400	TEMPORARY TRAFFIC SIGNALS
				AHEAD	SPECIAL	36X48	12.00		POINT OF PRESENCE	9029401	TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO13-1	30X30	6.25		ADVISORY SPEED (PLAQUE)	SPECIAL	96X48		<del>                                     </del>	POINT OF PRESENCE		
WO16-2	30X24	5.00		XXX FEET (PLAQUE)		3 48X24		+ + +	RATE OUR WORK ZONE		
WO16-3	30X24	5.00		X MILE (PLAQUE)		72X36			RATE OUR WORK ZONE		
W020-1	48X48	16.00	4 64.00	ROAD/BRIDGE/RAMP WORK AHEAD	616-10.		10.00		INATE OUN WORK ZONE	<b></b>	
WD20-2	48X48	16.00		DETOUR AHEAD	CONSTRI	ICTION S	SIGNS TOTA	252.00			*NOTE: NO DIRECT PAYMENT SHALL BE MADE TO
WD20-3				ROAD CLOSED AHEAD	CAC AO	10	10113 1017	<u>'-</u>		R	FLOCATE OR COVER/UNCOVER EXISTING OR TOP SIGNS.

AREA GOL FT. ) OTY TOTAL RELOC RELOC AREA

1 16.00

4 64.00

DESCRIPTION

\*\*INDICATES ITEM NOT INCLUDED IN TEMPORARY

TRAFFIC CONTROL LUMP SUM BID ITEM.

2 RIGHT/CENTER/LEFT LANES CLOSED

RIGHT/CENTER/LEFT LANE CLOSED

TURN OFF 2-WAY RADIO AND PHONE

FLAGGER (SYMBOL) WITH FLAGS

SHOULDER WORK AHEAD

BLASTING ZONE AHEAD

AHEAD

FRESH OIL

SIZE (IN.)

48X48

WD20-6a 48X48 16.00

48X48

36X36

48X48

48X48

42X36 10.50

16.00

16.00

9.00

16.00

16.00

SIGN

W020-5a

V020-7a

VO21-2

W021-5b

W022-1

W022-2

616-10.10

RELOCATED SIGNS TOTAL

DESCRIPTION

TURN (SYMBOL LEFT ARROW)

TURN (SYMBOL RIGHT ARROW)

CURVE (SYMBOL LEFT ARROW)

CURVE (SYMBOL RIGHT ARROW)

ROAD CLOSED AHEAD

ONE LANE ROAD AHEAD

RIGHT/CENTER/LEFT LANE CLOSED AHEAD

REVERSE TURN (SYMBOL LEFT ARROW)

REVERSE TURN (SYMBOL RIGHT ARROW)

REVERSE CURVE (SYMBOL LEFT ARROW)

WARNING SIGNS

SIZE (IN.) AREA (SQ. FT.) QTY TOTAL AREA RELOC AREA

SIGN

WO1-1L

WO1-1R

WO1-2L

WO1-2R

WO1-3L

WO1-3R

WO1-4L

48X48 16.00

48X48 16.00

48X48 16.00

48X48 16.00

48X48 16.00

16.00

16.00

48X48

48X48

WO20-3 48X48 16.00

WO20-4

W020-5

48X48 16.00

48X48 16.00

