

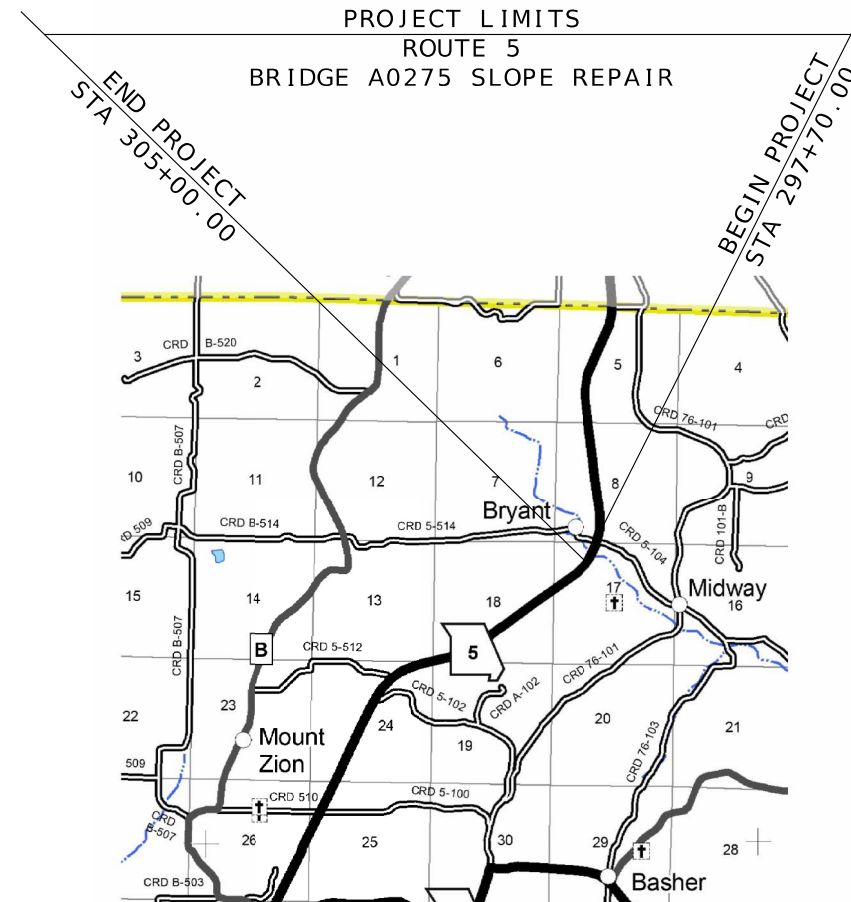
A.A.D.T. - 2024 = 5451
A.A.D.T. - 2034 = 6088
D.H.V. = 8.40%
T = 17.76%
V = 60 M.P.H.
D = 50.6%/49.4%

NO RIGHT OF WAY REQUIRED

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	— FO —	— FO —
OVERHEAD CABLE TV	— OTV —	— OTV —
UNDERGROUND CABLE TV	— UT —	— UT —
OVERHEAD TELEPHONE	— OT —	— OT —
UNDERGROUND TELEPHONE	— UT —	— UT —
OVERHEAD POWER	— OE —	— OE —
UNDERGROUND POWER	— UE —	— UE —
SANITARY SEWER	— S —	— S —
STORM SEWER	— SS —	— SS —
GAS	— G —	— G —
WATER	— W —	— W —
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK	— V —	— V —
WOVEN WIRE	— X —	— X —
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

KEY MAP 
LOCATION OF DOUGLAS 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.

DESCRIPTION	NUMBER
TITLE SHEET -----	1
QUANTITIES (QU) (02 SHEETS)-----	2
PLAN-PROFILE (PP)-----	3-4
TRAFFIC CONTROL SHEETS (TC)-----	5
BRIDGE DRAWINGS (B)	
A0275-----	1-2

[illegible]

BEGINNING OF PROJECT	STA. 297+70.00
END OF PROJECT	STA. 305+00.00
APPARENT LENGTH	730.00 FEET
EQUATIONS AND EXCEPTIONS:	

TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	730.00	FEET
STATE LENGTH	0.138	MILES
FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES	0.7	ACRES


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

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

ACCESS ROAD SURFACING				
STA	STA	LOCATION	GRAVEL A CRUSHED STONE B (TON)	REMARKS
297+87	301+32	RTE 5 RT	151	14' ROADWAY WIDTH, 6" AGGREGATE DEPTH
TOTAL			151	

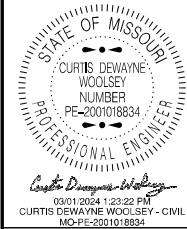
REMOVAL OF IMPROVEMENTS		
STA	LOCATION	REMARKS
298+05	RTE 5 RT	GUARD CABLE (DO NOT REPLACE)
1 LUMP SUM		

LINEAR GRADING				
STA	STA	LOCATION	LINEAR GRADING CLASS 2 (STA)	REMARKS
297+87	301+32	RTE 5 RT	3.5	ACCESS ROAD
297+87	301+32	RTE 5 RT	3.5	ACCESS ROAD REMOVAL
302+13	303+00	RTE 5 RT	1.7	REMOVE MATERIAL IN STREAM TO WATER LINE
TOTAL			8.7	
- MATERIAL FOR ACCESS ROAD TO BE OBTAINED AND DISPOSED OF OFF RIGHT OF WAY				

ROCK BLANKET					
STA	STA	LOCATION	FURNISHING AND PLACING ROCK BLANKET (6119907) (CY)	CLASS 1 EXCAVATION (CY)	REMARKS
302+67	303+61	RTE 5	1060	430	SEE BRIDGE PLANS AND JSP FOR GRADATION SPECS
TOTAL			1060	430	
- EXCAVATED MATERIAL TO BE DISPOSED OF OFF RIGHT OF WAY					

TEMPORARY EROSION CONTROL							
STA	STA	LOCATION	SILT FENCE (LF)	TYPE C BERM (LF)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
297+87	301+56	RTE 5 RT	370	-	-	4	STAGE 1 - PLACE AT ACCESS ROAD FILL SLOPE
297+87	301+56	RTE 5 RT	370	-	-	4	STAGE 2 - PLACE AT ACCESS ROAD FILL SLOPE
301+60	303+75	VARIES	-	500	-	8	STAGE 1 - SEE PLAN SHEET FOR LOCATION
VAR	VAR	VARIES	-	-	100	-	USED AS DIRECTED BY ENGINEER
TOTAL			740	500	100	16	
- LOCATION TO BE DETERMINE BY ENGINEER							

SEEDING					
STA	STA	LOCATION	SEEDING COOL SEASON GRASSES (AC)	MULCHING (AC)	REMARKS
297+87	301+32	RTE 5 RT	0.3	0.3	PLACE AFTER TEMP. ACCESS ROAD REMOVAL
TOTAL			0.3	0.3	
- LOCATION TO BE DETERMINE BY ENGINEER					



DATE PREPARED
3/1/2024

ROUTE 5 STATE MO

DISTRICT SE SHEET NO. 2

COUNTY DOUGLAS

JOB NO. JSEM0040

CONTRACT ID.

PROJECT NO.

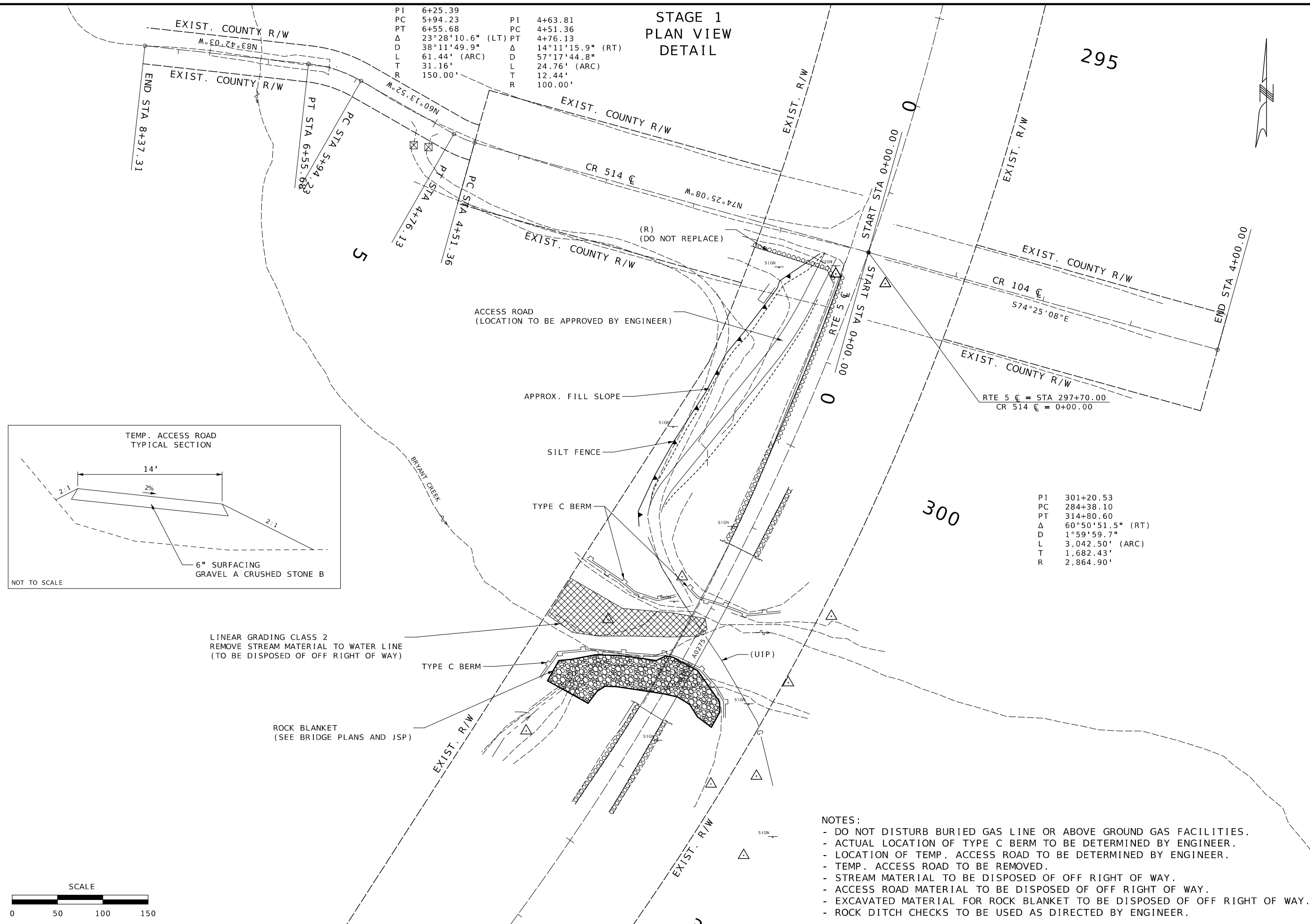
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFFECTIVE: 04-01-2023																																			
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN																												
IN.	SQ.FT.	EACH	SQ.FT.	EACH	SQ.FT.	NUM.																													
WARNING SIGNS							DESCRIPTION																												
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)																												
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)																												
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)																												
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)																												
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)																												
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)																												
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)																												
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)																												
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)																												
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)																												
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)																												
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)																												
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)																												
WO1-6a	72X36	18.00					HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)																												
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)																												
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)																												
WO1-8	18X24	3.00					CHEVRON (SYMBOL)																												
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)																												
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)																												
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)																												
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)																												
WO3-4	48X48	16.00					BE PREPARED TO STOP																												
WO3-5	48X48	16.00					SPEED LIMIT AHEAD																												
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)																												
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)																												
WO4-1aL	48X48	16.00					MERGE (ARROW SYMBOL)																												
WO4-1aR	48X48	16.00					MERGE (ARROW SYMBOL)																												
WO5-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS																												
WO5-3	48X48	16.00					ONE LANE BRIDGE																												
WO5-5	48X48	16.00					NARROW LANES																												
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)																												
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)																												
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)																												
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)																												
WO8-1	48X48	16.00					BUMP																												
WO8-2	48X48	16.00					DIP																												
WO8-3	48X48	16.00					PAVEMENT ENDS																												
WO8-4	48X48	16.00					SOFT SHOULDER																												
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)																												
WO8-6	48X48	16.00	3	48			TRUCK CROSSING (WITH FLAGS)																												
WO8-6c	48X48	16.00					TRUCK ENTRANCE																												
WO8-7	36X36	9.00					LOOSE GRAVEL																												
WO8-7a	36X36	9.00					FRESH OIL/LOOSE GRAVEL																												
WO8-9	48X48	16.00					LOW SHOULDER																												
WO8-11	48X48	16.00					UNEVEN LANES																												
WO8-12	48X48	16.00					NO CENTER LINE																												
WO8-15	48X48	16.00					GROOVED PAVEMENT																												
WO8-15P	30X24	5.00					MOTORCYCLE (PLAQUE)																												
WO8-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)																												
WO8-17P	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)																												
W10-1	42RND.	9.62					RAILROAD CROSSING																												
WO12-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)																												
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)																												
WO12-2X	24X18	3.00					LOW CLEARANCE (PLAQUE)																												
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)																												
WO12-4	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD																												
WO12-5	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD																												
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)																												
WO16-2	30X24	5.00					XXX FEET (PLAQUE)																												
WO16-3	30X24	5.00					X MILE (PLAQUE)																												
WO20-1	48X48	16.00					ROAD/BRIDGE/RAMP WORK AHEAD																												
WO20-2	48X48	16.00					DETOUR AHEAD																												
WO20-3	48X48	16.00					ROAD CLOSED AHEAD																												
WO20-4	48X48	16.00					ONE LANE ROAD AHEAD																												
WO20-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD																												
WO20-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD																												
WO20-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED																												
WO20-7a	48X48	16.00					FLAGGER (SYMBOL, WITH FLAGS)																												
WO21-2	36X36	9.00					FRESH OIL																												
WO21-5	48X48	16.00					SHOULDER WORK AHEAD																												
WO22-1	48X48	16.00					BLASTING ZONE AHEAD																												



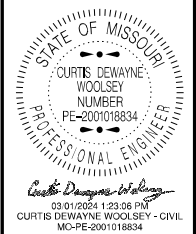
SCALE

0 50 100 150

STAGE 1
PLAN VIEW
DETAIL

PI	301+20.53
PC	284+38.10
PT	314+80.60
Δ	60°50'51.5" (RT)
D	1°59'59.7"
L	3,042.50' (ARC)
T	1,682.43'
R	2,864.90'

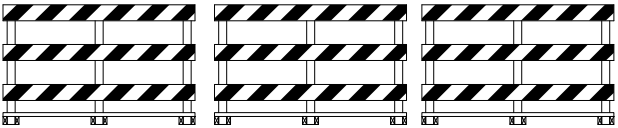
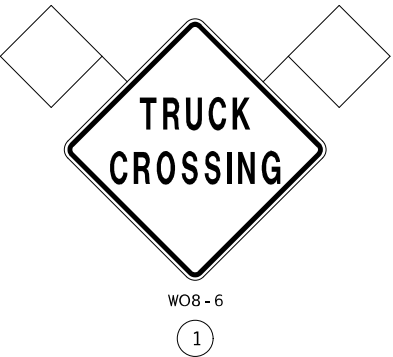
- NOTES:
- DO NOT DISTURB BURIED GAS LINE OR ABOVE GROUND GAS FACILITIES.
 - ACTUAL LOCATION OF TYPE C BERM TO BE DETERMINED BY ENGINEER.
 - LOCATION OF TEMP. ACCESS ROAD TO BE DETERMINED BY ENGINEER.
 - TEMP. ACCESS ROAD TO BE REMOVED.
 - STREAM MATERIAL TO BE DISPOSED OF OFF RIGHT OF WAY.
 - ACCESS ROAD MATERIAL TO BE DISPOSED OF OFF RIGHT OF WAY.
 - EXCAVATED MATERIAL FOR ROCK BLANKET TO BE DISPOSED OF OFF RIGHT OF WAY.
 - ROCK DITCH CHECKS TO BE USED AS DIRECTED BY ENGINEER.

[illegible]

PLAN SHEET
SHEET 1 OF 2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◡ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- Changeable Message Sign



TYPE III MOVEABLE BARRICADES
TO BE USED AT ACCESS ROAD ENTRANCE



- NOTES:
- SEE STANDARD PLANS 616.10 FOR CHANGEABLE MESSAGE SIGN LOCATION DETAILS
 - PLACEMENT OF CMS IS APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS
 - CMS MESSAGES TO BE APPROVED BY ENGINEER



DATE PREPARED
3/1/2024

ROUTE	STATE
5	MO
DISTRICT	SHEET NO.
SE	5

COUNTY
DOUGLAS

JOB NO.
JSEM0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

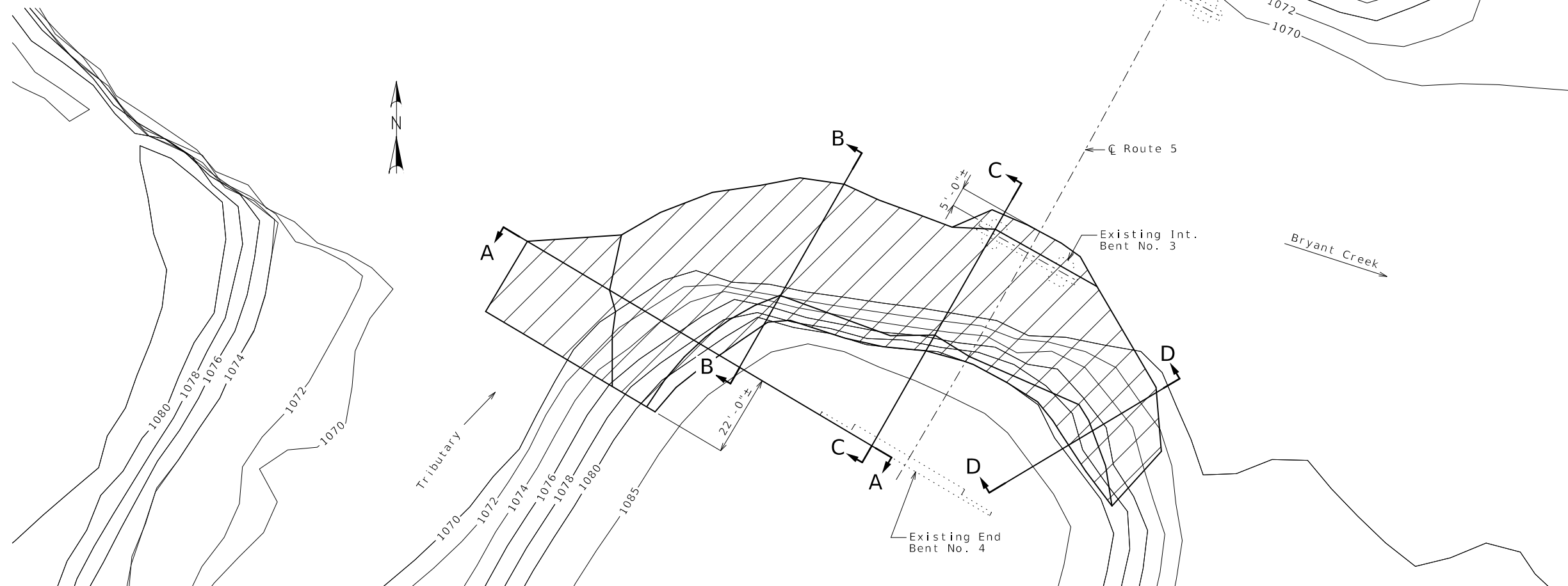
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Nominal Riprap Class by Median Particle Diameter		D ₁₅		D ₅₀		D ₈₅		D ₁₀₀
Class	Size (in)	Min. (in)	Max. (in)	Min. (in)	Max. (in)	Min. (in)	Max. (in)	Max. (in)
I	6	3.7	5.2	5.7	6.9	7.8	9.2	12
II	9	5.5	7.8	8.5	10.5	11.5	14	18
III	12	7.3	10.5	11.5	14	15.5	18.5	24
IV	15	9.2	13	14.5	17.5	19.5	23	30
V	18	11	15.5	17	20.5	23.5	27.5	36
VI	21	13	18.5	20	24	27.5	32.5	42
VII	24	14.5	21	23	27.5	31	37	48
VIII	30	18.5	26	28.5	34.5	39	46	60
IX	36	22	31.5	34	41.5	47	55.5	72
X	42	25.5	36.5	40	48.5	54.5	64.5	84

For every 100 rocks the following should be true to meet the gradation of the selected class

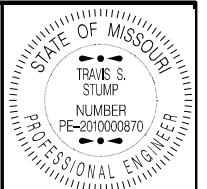
(Nominal Sizes Shown, actual dimension may be +/- 3" from size shown)

% Finer	11 inches	16 inches	21 inches	30 inches
D ₁₅	15 Rocks < 11 inches	85 Rocks > 11 inches		
D ₅₀	50 Rocks < 16 inches		50 Rocks > 16 inches	
D ₈₅	85 Rocks < 21 inches			15 Rocks > 21 inches
D ₁₀₀	All 100 Rocks < 30 inches			



SLOPE SCOUR REPAIR AT BRIDGE NO. A0275
ROUTE 5 OVER BRYANT CREEK

Sheet No. 1 of 2



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
1/20/2024

17/29/2024	
ROUTE	STATE

5	MO
---	----

DISTRICT	SHEET NO.
BR	1

COUNTY	
--------	--

DOUGLAS
JOB NO.

JSEM0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

BRIDGE NO.

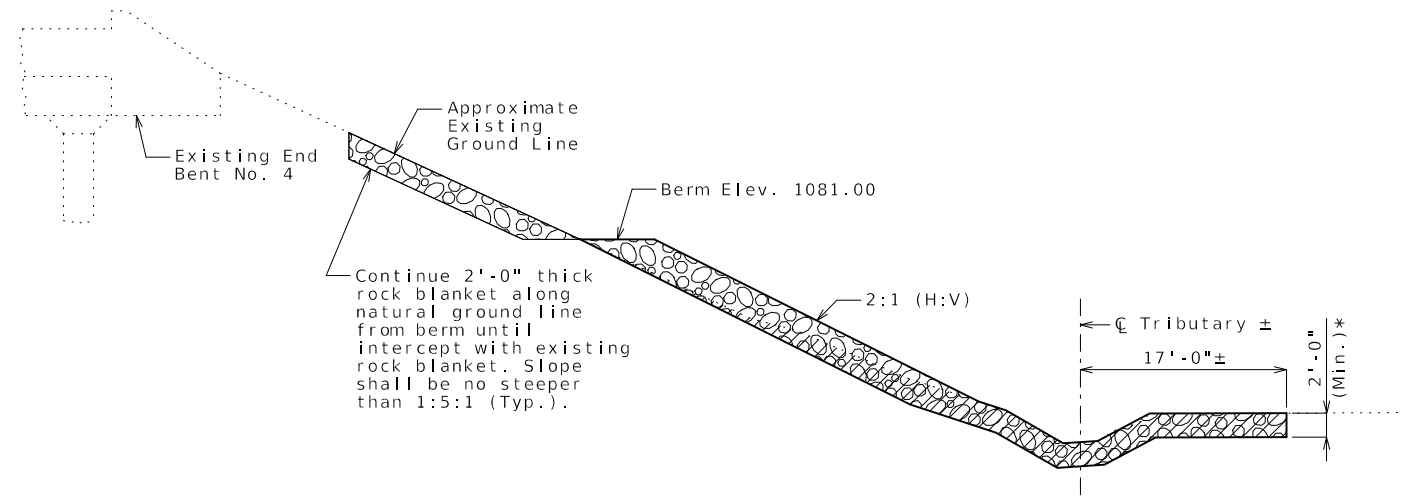
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

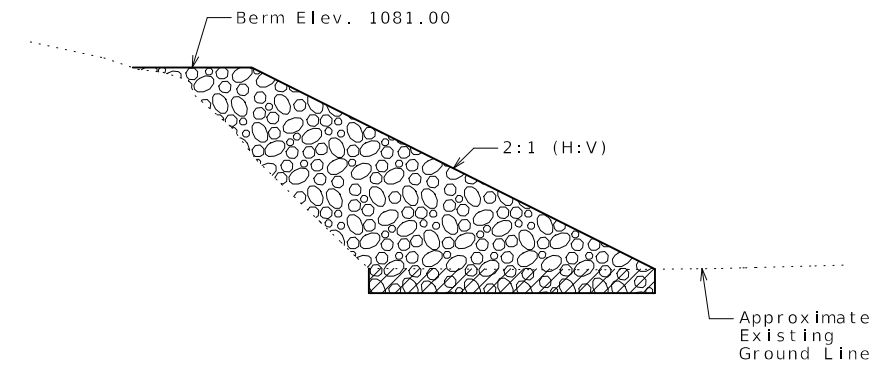
MoDOT

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





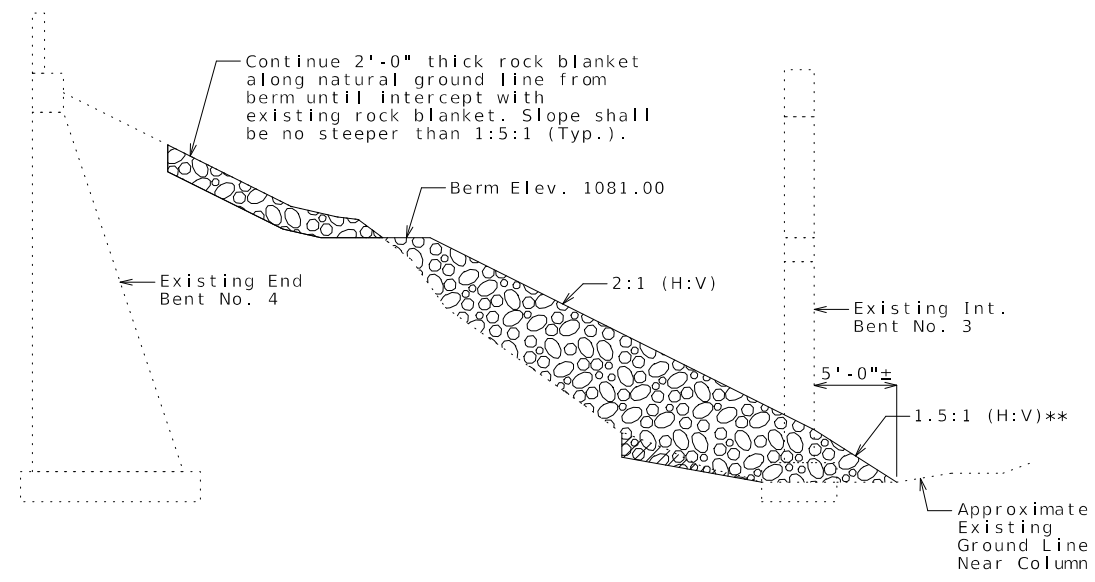
SECTION A-A



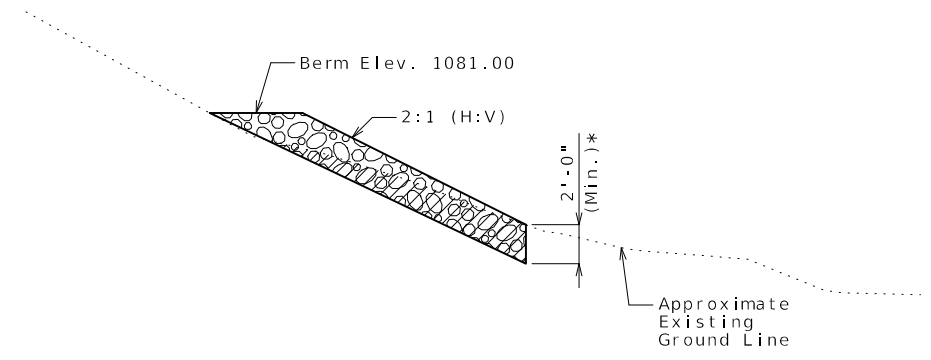
SECTION B-B
(50' WEST OF ☐ ROUTE 5)

* 2'-0" minimum embedment required unless already on bedrock. Rock blanket thickness shall be 2'-0" minimum.

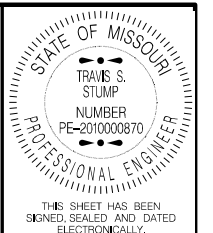
** Use 2:1 slope on front slope of revetment until intercept with existing int. Bent No. 3. May reduce to 1.5:1 slope from face of column to extent of scour hole.



SECTION C-C
(10' WEST OF ☐ ROUTE 5)



SECTION D-D



DATE PREPARED 1/29/2024	
ROUTE 5	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY DOUGLAS	
JOB NO. JSEM0040	
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)