

DESIGN DESIGNATION

AADT - 2024 = 1,515  
AADT - 2044 = 1,716  
DHV = 13.13%  
T = 11.48%  
V = 50/55 MPH

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

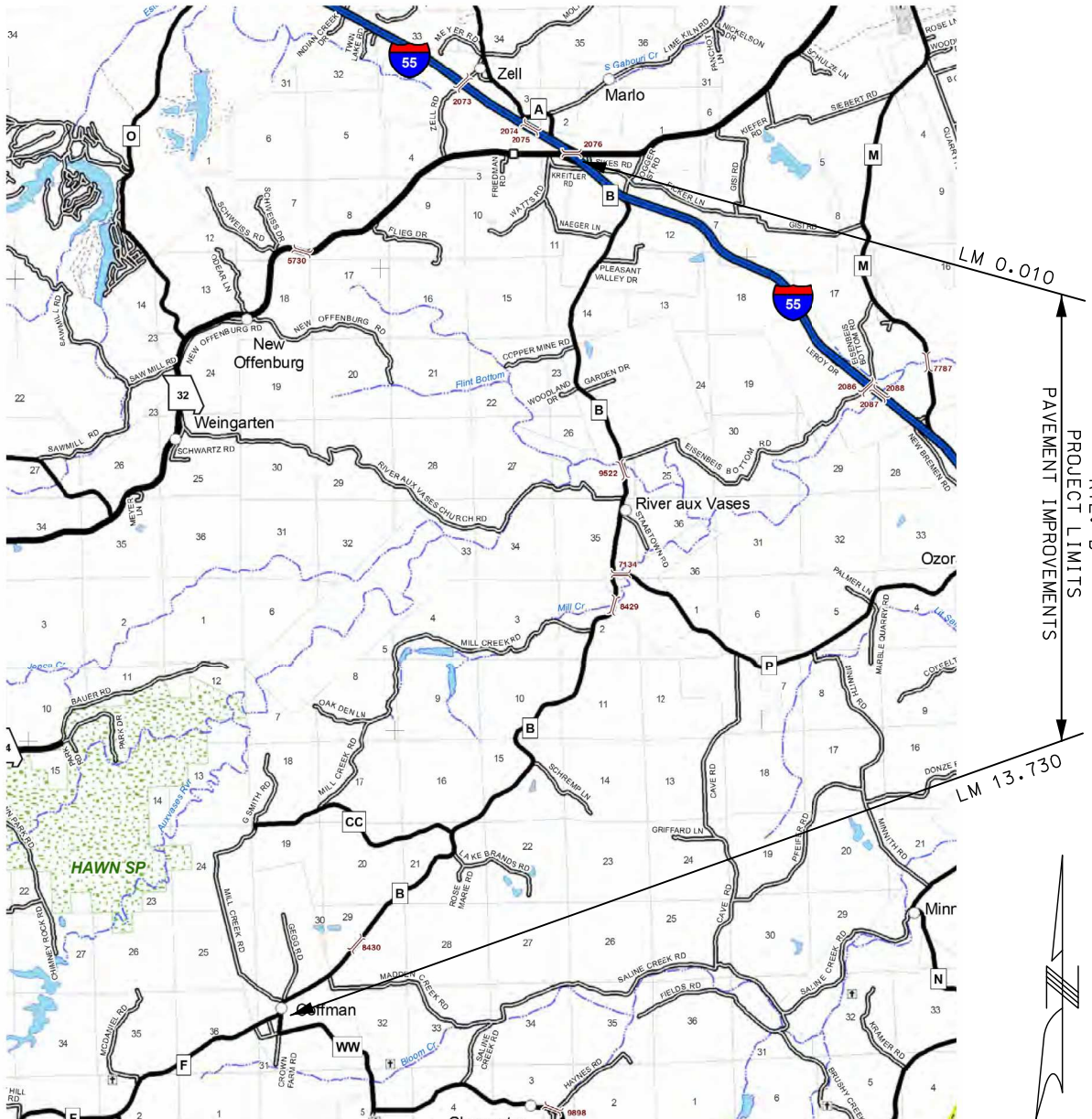
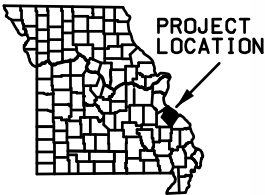
NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS  
(USED IN PLANS)

	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	-UTV-	-UTV-
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		
WOVEN WIRE		
GATE POST		
BENCHMARK		
REMOVAL		
REMOVAL BY OTHERS		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
PLANS FOR PROPOSED  
STATE HIGHWAY  
STE. GENEVIEVE COUNTY

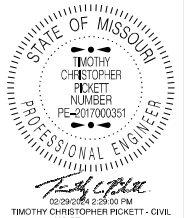


INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (2 SHEETS)---	2
QUANTITIES (QU) (3 SHEETS)-----	3
SECIAL SHEETS (SS)-----	4-6
TRAFFIC CONTROL SHEETS (TC)-----	7-8
BRIDGE DRAWINGS (B)	
R0535-----	1-4
R0536-----	1-4

LENGTH OF PROJECT

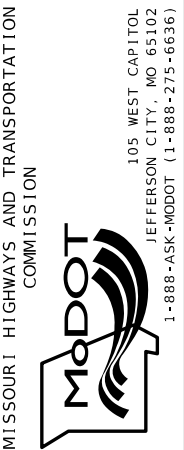
BEGINNING OF PROJECT	LM 0.010
END OF PROJECT	LM 13.730
APPARENT LENGTH	13.720 MILES
EQUATIONS AND EXCEPTIONS:	
EXCEPTION: BRIDGE A7782	0.048 MILES
LM 4.662 - LM 4.710	
TOTAL CORRECTIONS	0.048 MILES
NET LENGTH OF PROJECT	13.672 MILES
STATE LENGTH	13.672 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	00 ACRES



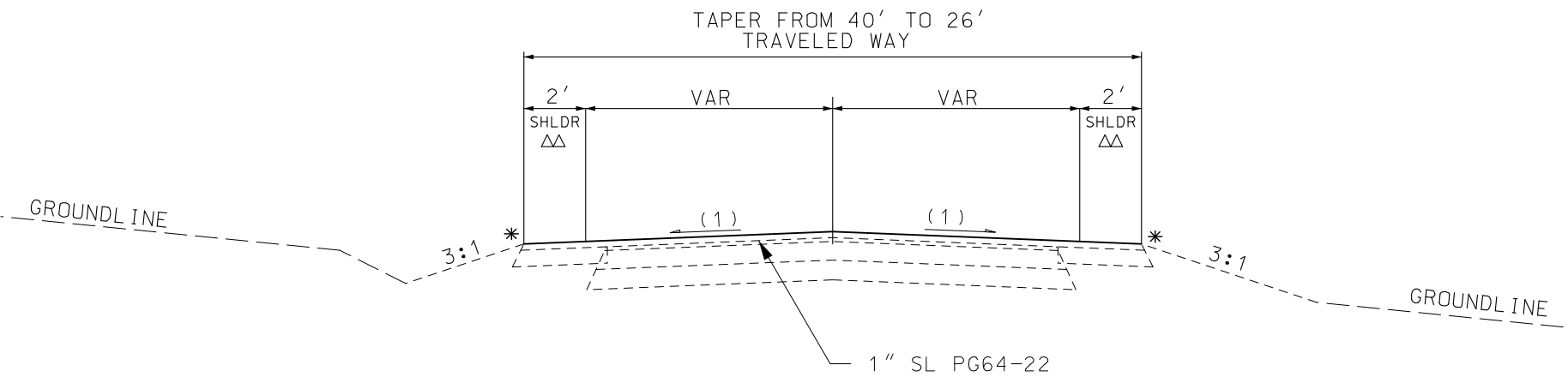
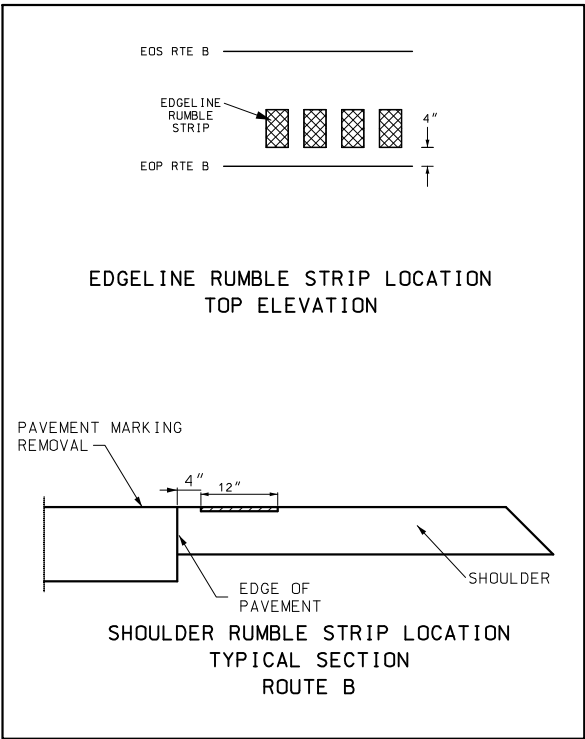
DATE PREPARED	2/29/2024
ROUTE	B
STATE	MO
DISTRICT	SE
SHEET NO.	1
COUNTY	STE. GENEVIEVE
JOB NO.	J9S3698
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

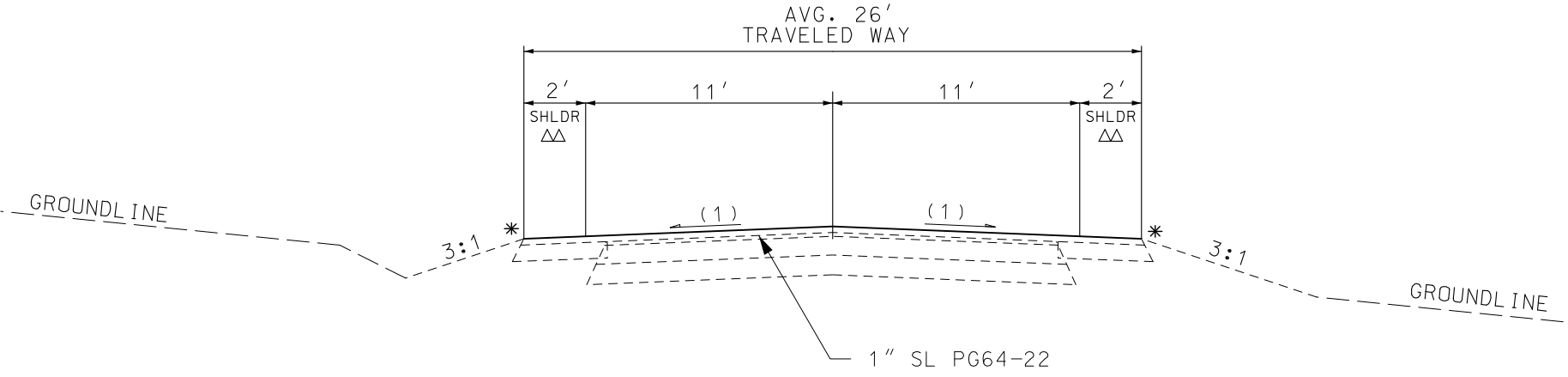


ESTIMATE FACTORS FOR ASPHALTIC MIXTURES	
SURFACE LEVELING PG64-22	2.034 TONS/CY
TACK COAT	0.08 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	



TYPICAL SECTION  
ROUTE B

LOG MILE 0.010 TO LOG MILE 0.020



TYPICAL SECTION  
ROUTE B

LOG MILE 0.020 TO LOG MILE 4.662  
LOG MILE 4.710 TO LOG MILE 6.431  
LOG MILE 6.450 TO LOG MILE 12.431  
LOG MILE 12.443 TO LOG MILE 13.730

\* - SAFETY EDGE - SEE STANDARD 401.00

(1) MATCH EXISTING CROSS SLOPE

NOTE: SURFACE PLACEMENT SHALL BE ONE PASS PER LANE  
NO S.E. CORRECTION.



01/20/2024 11:28:53 AM  
TIMOTHY CHRISTOPHER PICKETT - CIVIL  
MO-PE-2017000351  
DATE PREPARED

1/26/2024

ROUTE B STATE MO

DISTRICT SE SHEET NO. 2

COUNTY

STE. GENEVIEVE

JOB NO.

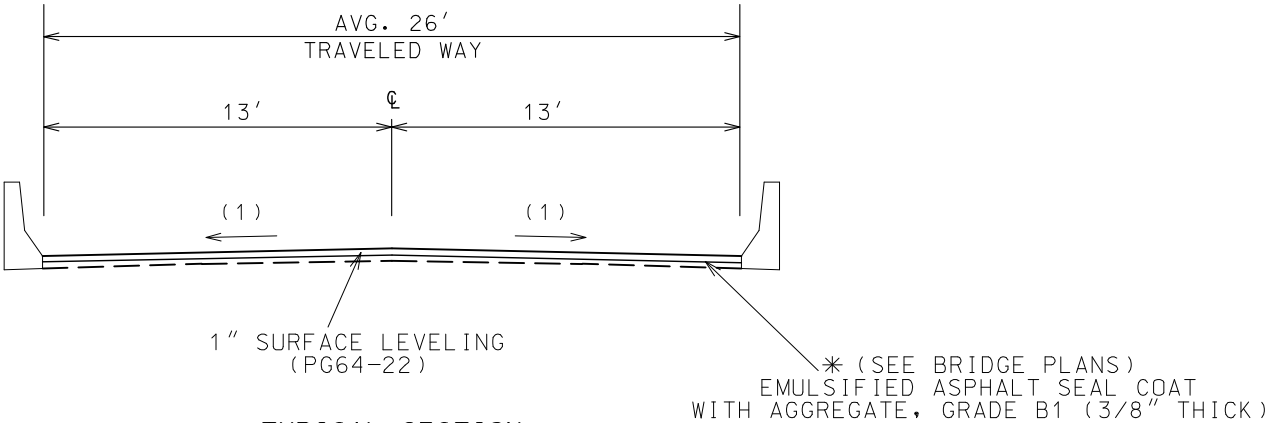
19S3698

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

ESTIMATE FACTORS FOR ASPHALTIC MIXTURES	
SURFACE LEVELING PG64-22	2.034 TONS/CY
TACK COAT	0.08 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	



TYPICAL SECTION  
ROUTE B

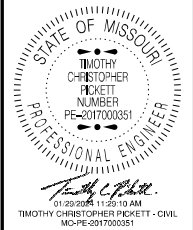
BRIDGE R0535  
LOG MILE 6.431 TO LOG MILE 6.450

BRIDGE R0536  
LOG MILE 12.431 TO LOG MILE 12.443

\* SAW CUT / CLEAN OUT EXISTING BRIDGE JOINTS  
AND SEAL AFTER REMOVAL OF EXISTING ASPHALT  
WEARING SURFACE, PRIOR TO SEAL COAT.

(1) MATCH EXISTING CROSS SLOPE

NOTE: SURFACE PLACEMENT SHALL BE ONE PASS PER LANE  
NO S.E. CORRECTION.



DATE PREPARED 1/26/2024	
ROUTE B	STATE MO
DISTRICT SE	SHEET NO. 2
COUNTY STE. GENEVIEVE	
JOB NO. J9S3698	
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)

SURFACE LEVELING OVERLAY AND TACK							
LOCATION	LOG MILE	LOG MILE	TRAVELWAY WIDTH	OVERLAY DEPTH	OVERLAY AREA	BITUMINOUS PAVEMENT 1" SURFACE LEVELING PG 64-22 2.034 TONS/CY (TONS)	TACK COAT  0.08 GAL/SY (GAL)
ROUTE B	0.010	0.020		1.0	175.08	9.9	14
ROUTE B	0.020	4.662	26	1.0	70805.97	4000.5	5664
BRIDGE A7782	4.662	4.710	28	0.0	0.00	0.0	0
ROUTE B	4.710	6.431	26	1.0	26250.99	1483.2	2100
BRIDGE R0535	6.431	6.450	26	1.0	289.81	16.4	23
ROUTE B	6.450	12.431	26	1.0	91230.19	5154.5	7298
BRIDGE R0536	12.431	12.443	26	1.0	183.04	10.3	15
ROUTE B - END PROJECT	12.443	13.730	26	1.0	19631.04	1109.2	1570
CENTER LINE RUMBLE STRIP MILL/FILL ROUTE B	0.010	13.730		2.0	16004.80	1808.5	1280
LEFT / RIGHT RUMBLE SRTIP MILL/FILL ROUTE B	0.010	13.730		2.0	25409.60	2871.3	2033
ROUTE P	6.037			1.0	340.16	19.2	27
ROUTE CC	10.481			1.0	324.15	18.3	26
9 PAVED COUNTY ROADS/CITY STREETS 45' X 10'	VARIOUS			1.0	450.00	25.4	36
3 AGGREGATE COUNTY ROADS/CITY STREETS 45 'X 10'	VARIOUS			3.0	150.00	25.4	12
29 PAVED PRIVATE ENTRANCES 40 X 2	VARIOUS			1.0	257.78	14.6	21
122 AGGREGATE PRIVATE ENTRANCES 40' X 2'	VARIOUS			1.0	1084.44	61.3	87
75 TONS PER MILE FOR IRREGULARTIES						1028.3	
2% SAFETY EDGE						352.3	
BRIDGE R0536 - SW CORNER - CRASH CUSHION PAD (3' WIDE BY 25' LENGTH)				4	8.33	1.9	
				TOTAL :		18010.5	20206

AGGREGATE EDGE TREATMENT		
LOG MILE	LOG MILE	AGG. EDGE TREATMENT 180 TONS / MILE  (TONS)
0.010	13.730	2469.600
TOTAL :		2469.600

MODIFIED COLD MILLING (DEPTH TRANSITIONS)			
LOCATION	LOG MILE	LOG MILE	AREA (SY)
ROUTE B AT ROUTE 32	0.010	0.020	175
BEGIN BRIDGE A7782	4.652	4.662	156
END BRIDGE A7782	4.710	4.720	156
ROUTE B END PROJECT	13.721	13.730	145
ROUTE P			56
ROUTE CC			56
9 PAVED COUNTY ROADS/CITY STREETS 45' X 10'	VARIOUS		450
29 PAVED PRIVATE AND COMMERCIAL ENTRANCES 40' X 2'	VARIOUS		258
TOTAL :			1452

GRAVEL A OR CRUSHED STONE B			
LOG MILE	LOG MILE	GRAVEL A OR CRUSHED STONE B (TONS)	REMARKS
VARIOUS	VARIOUS	125	AT 125 AGGREGATE ENTRANCES
TOTAL		125	

PAVEMENT MARKING				
LOG MILE	LOG MILE	WATERBORNE PAVEMENT MARKING PAINT 4" WHITE TYPE P BEADS (L.F.)	WATERBORNE PAVEMENT MARKING PAINT 4" SOLID YELLOW TYPE P BEADS (L.F.)	WATERBORNE PAVEMENT MARKING PAINT 4" INT. YELLOW TYPE P BEADS (L.F.)
0.010	13.730	144882	133815	2110
	TOTAL	144882	133815	2110
	USE	144882	135925	
PAVEMENT MARKING TO BE LOCATED IN ACCORDANCE WITH PAVEMENT MARKING LOG JSP				

COLD MILLING BIT PAVEMENT FOR REMOVAL OF SURFACE (3 IN OR LESS)			
LOCATION	LOG MILE	LOG MILE	AREA (SY)
RTE B	8.243	8.414	1104
RTE B	10.389	10.449	387
RTE B	10.707	10.721	90
RTE B	12.539	12.700	1039
TOTAL :			2620
LOG MILES ARE APPROXIMATE AND ARE LOCATED AT PATCHED AREAS OF ROUTE B			

SUMMARY OF QUANTITIES  
SHEET 1 OF 3

STATE OF MISSOURI

TIMOTHY CHRISTOPHER PICKETT

NUMBER

PE-2017000351

PROFESSIONAL ENGINEER

02/29/2024 2:22:34 PM

TIMOTHY CHRISTOPHER PICKETT - CIVIL

MO-PE-2017000351

DATE PREPARED  
2/29/2024

ROUTE  
B

DISTRICT  
SE

STATE  
MO

SHEET NO.  
3

COUNTY  
STE. GENEVIEVE

JOB NO.  
J9S3698

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)

GUARDRAIL									
LOG MILE	LOG MILE	LOCATION	MGS TYPE A CRASHWORTHY END TERMINAL MASH (EA)	MGS GUARDRAIL 8 FT POSTS 6 FT 3 IN SPACING (FT)	MGS BRIDGE APPROACH TRANSITION SECTION (EA)	TYPE C CRASH CUSHION (EA)	LINEAR GRADING  CLASS I  (STA.)	MODIFIED SHAPING SLOPES CLASS III  (LF)	REMARKS
4.615	4.662	RT	1	75	1			80	GUARDRAIL - BR A7782 NW CORNER USING SB LOG MILES
4.615	4.662	LT	1	75	1			80	GUARDRAIL - BR A7782 NE CORNER USING SB LOG MILES
4.710	4.745	LT	1	75	1			80	GUARDRAIL - BR A7782 SE CORNER USING SB LOG MILES
6.397	6.407	RT	1		1			80	GUARDRAIL - BR R0535 NW CORNER USING SB LOG MILES
6.397	6.407	LT	1		1			80	GUARDRAIL - BR R0535 NE CORNER USING SB LOG MILES
6.427	6.437	RT	1		1			80	GUARDRAIL - BR R0535 SW CORNER USING SB LOG MILES
6.427	6.437	LT	1		1			80	GUARDRAIL - BR R0535 SE CORNER USING SB LOG MILES
10.915	11.150	RT	4	1050				400	GUARDRAIL - ROUTE B
12.413	12.431	RT	1		1			80	GUARDRAIL - BR R0536 NW CORNER USING SB LOG MILES
12.413	12.431	LT	1		1			80	GUARDRAIL - BR R0536 NE CORNER USING SB LOG MILES
12.443	12.453	RT				1	0.25		GRADING FOR ASPHALT CRASH CUSHION PAD
12.443	12.463	LT	1		1			80	GUARDRAIL - BR R0536 SE CORNER USING SB LOG MILES
TOTAL			14	1275	10	1	0.25	1200	
USE			14	1275	10	1	0.3	1200	
BR A7782 SW CORNER - UIP EXISTING TYPE C CRASH CUSHION									
SEE STANDARD PLANS 606.50 AND 606.81 FOR DETAILS									

REMOVAL OF IMPROVEMENTS			
LOG MILE	LOG MILE	LOCATION	REMARKS
4.615	4.662	BRIDGE A7782	REMOVE EXISTING GUARDRAIL
4.615	4.662	BRIDGE A7782	REMOVE EXISTING GUARDRAIL
4.710	4.745	BRIDGE A7782	REMOVE EXISTING GUARDRAIL
6.397	6.407	BRIDGE R0535	REMOVE EXISTING GUARDRAIL
6.397	6.407	BRIDGE R0535	REMOVE EXISTING GUARDRAIL
6.427	6.437	BRIDGE R0535	REMOVE EXISTING GUARDRAIL
6.427	6.437	BRIDGE R0535	REMOVE EXISTING GUARDRAIL
10.915	11.150	RT B	REMOVE EXISTING GUARDRAIL
12.413	12.431	BRIDGE R0536	REMOVE EXISTING GUARDRAIL
12.413	12.431	BRIDGE R0536	REMOVE EXISTING GUARDRAIL
12.443	12.453	BRIDGE R0536	REMOVE EXISTING GUARDRAIL
12.443	12.463	BRIDGE R0536	REMOVE EXISTING GUARDRAIL
1 LUMP SUM			

MOBILIZATION
1 LUMP SUM

BITUMINOUS RUMBLE STRIP			
LOG MILE	LOG MILE	CENTERLINE RUMBLE STRIP  (STA)	SHOULDER RUMBLE STRIP LT. / RT.  (STA)
0.010	13.730	720.216	1143.432
TOTAL :		720.2	1143.4

STATE OF MISSOURI

TIMOTHY CHRISTOPHER PICKETT

PROFESSIONAL ENGINEER

PE-2017000351

02/29/2024 2:29:55 PM

TIMOTHY CHRISTOPHER PICKETT - CIVIL

MO-PE-2017000351

DATE PREPARED

2/29/2024

ROUTE

B

STATE

MO

DISTRICT

SE

SHEET NO.

3

COUNTY

STE. GENEVIEVE

JOB NO.

J9S3698

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)

MoDOT

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16				END ROAD WORK
GO20-4	36X18	4.50	1	4.5				PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	1	8.75				PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	5	7.5				PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	4	24				WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00						DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	4	48				SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00	5	30				STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-7	48X24	8.00	2	16				RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00	2	24				WORK ZONE NO PHONE ZONE
616-10.05 CONSTRUCTION SIGNS				TOTAL 1712				
616-10.10 RELOCATED SIGNS					TOTAL 0			

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	4	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	224	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	4	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A	2	WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	8	TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D	400	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER
6174000A		CONTRACTOR FURNISHED/COMMISSION RETAINED
6175010A	400	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6176000B		RELOCATING TEMPORARY TRAFFIC BARRIER TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6122040	4	
6122041	4	WORK ZONE CRASH CUSHION (NARROW)
		WORK ZONE CRASH CUSHION (NARROW) (RELOCATION)

TEMP.	SIGNAL	WORKZONE	QUANTITIES
-	4" WHITE TEMP. MARKING TAPE		1500 LF
-	DOUBLE YELLOW CENTERLINE STRIPING		2000 LF
-	TEMP. 24" STOP BARS		55 LF
-	PAVEMENT MARKING REMOVAL		2500 LF

SUMMARY OF QUANTITIES  
SHEET 3 OF 3



DATE PREPARED	
2/29/2024	
ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
SE	3
COUNTY	
STE. GENEVIEVE	
JOB NO.	
J9S3698	
CONTRACT ID.	

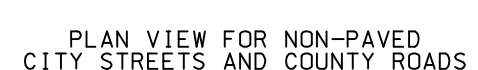
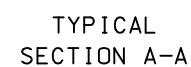
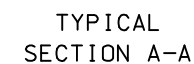
PROJECT NO.
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)





## NOTES

ALL GRADING NECESSARY FOR THE PROPER  
CONSTRUCTION OF HOT MIX AND AGGREGATE  
APRONS SHALL BE CONSIDERED INCIDENTAL  
WORK AND AT NO DIRECT PAY.

THE WIDTH OF ALL HOT MIX AND AGGREGATE  
APRONS MAY BE ADJUSTED BY THE ENGINEER  
AS NECESSARY TO OBTAIN SUITABLE TRANSITIONS.

DATE PREPARED  
1/26/2024

ROUTE B	STATE MO
------------	-------------

DISTRICT	SHEET NO
SE	5

COUNTY
--------

STE. GENEVIEW

JOB NO.	
---------	--

J9S3698

CONTRACT ID.
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PROJECT NO.
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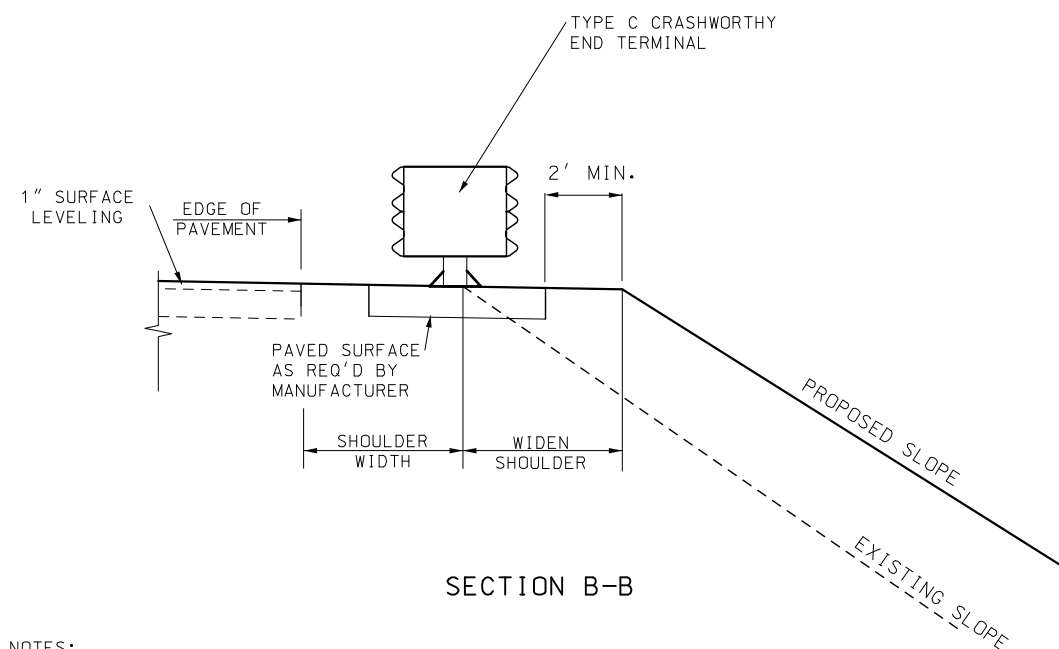
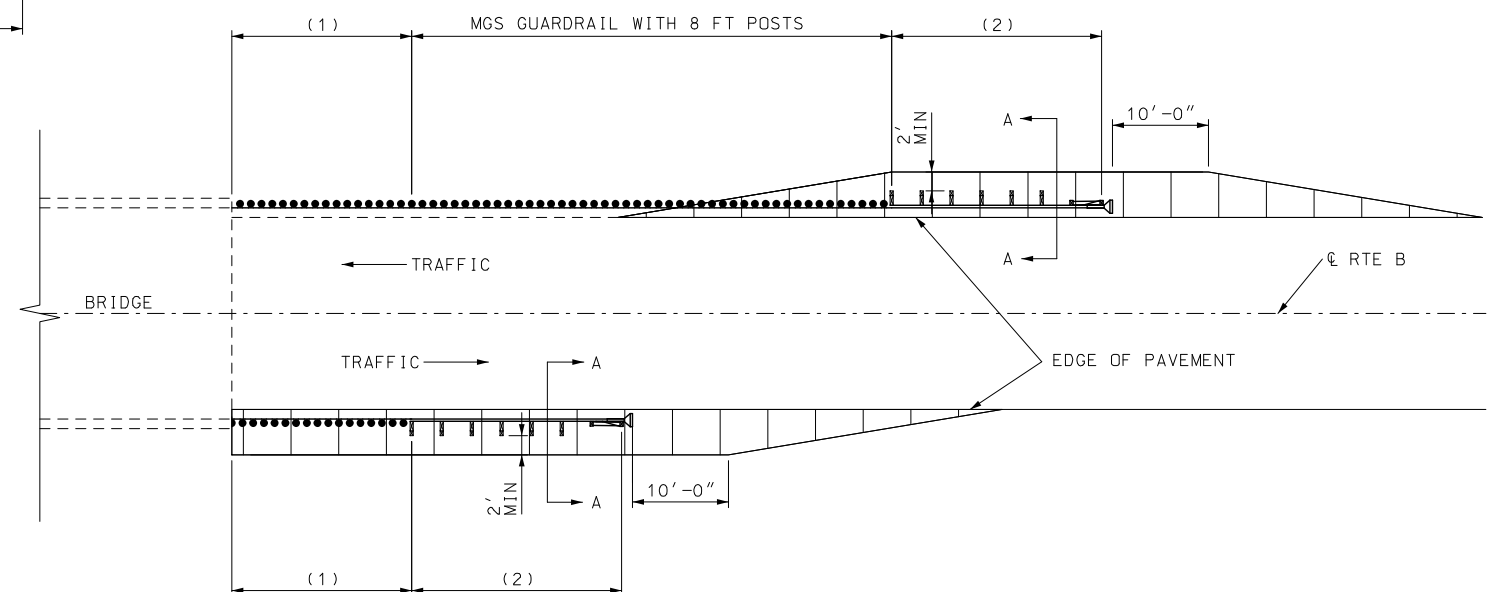
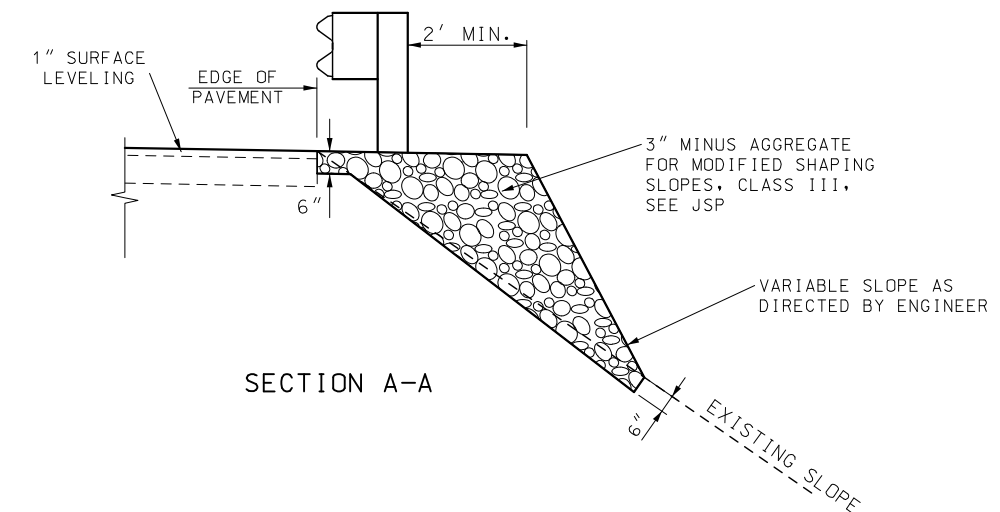
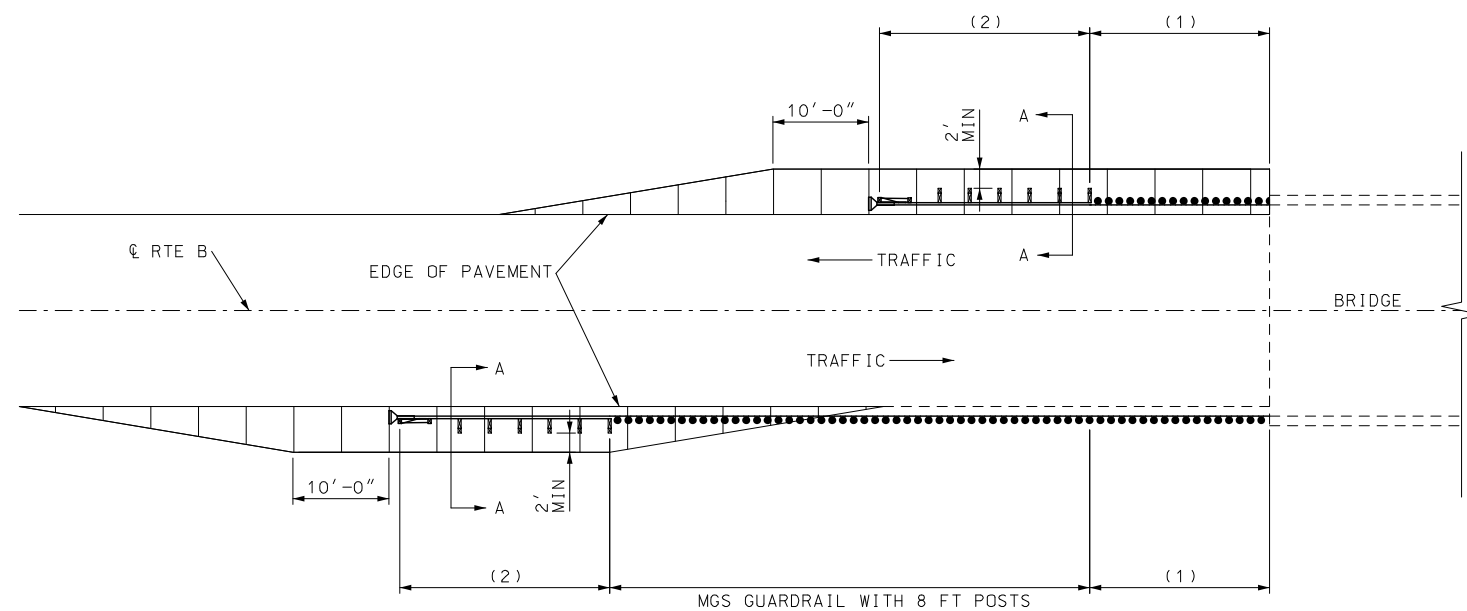
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102

SPECIAL SHEET  
SHEET 2 OF 3  
DRAWING NOT TO SCALE





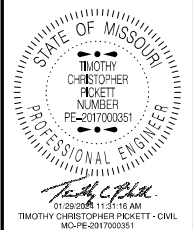
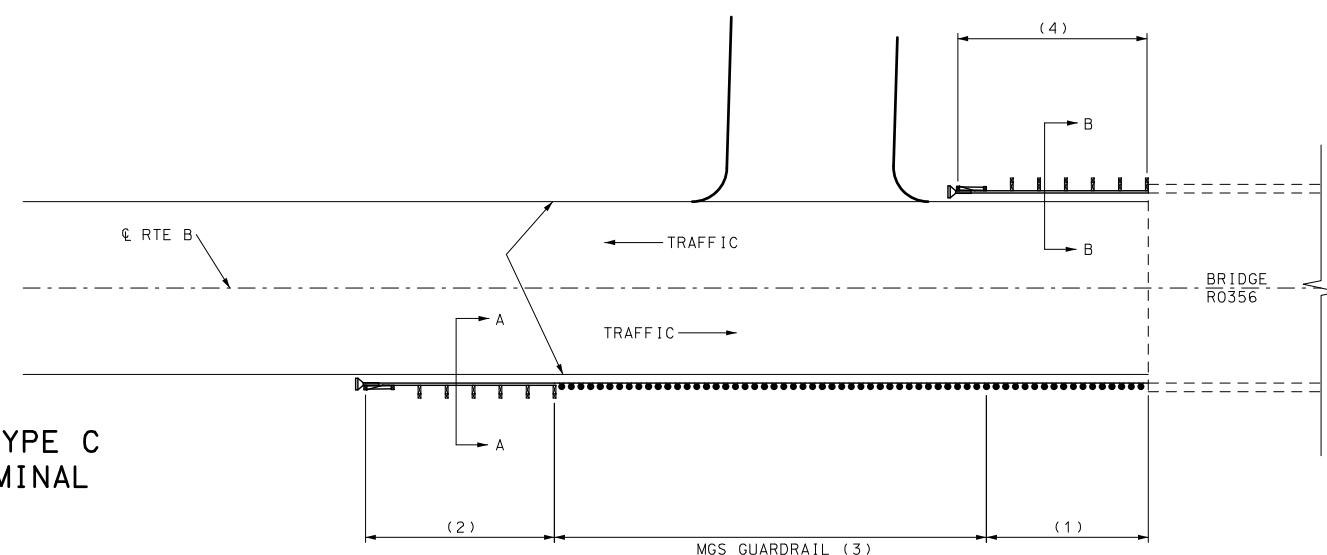
NOTES:

SEE STD 606.81 FOR GRADING LIMITS  
OF MODIFIED SHAPING SLOPES CLASS III.

- (1) MGS BRIDGE APPROACH TRANSITION  
(2) TYPE A CRASHWORTHY END TERMINAL (MASH)  
(3) MGS GUARDRAIL  
(4) TYPE C CRASHWORTHY END TERMINAL

### GRADING LIMITS FOR TYPE C CRASHWORTHY END TERMINAL

BRIDGE R0356



DATE PREPARED

1 / 26 / 2024

ROUTE	STATE
D	MO

B	MO
DISTRICT	SHEET NO

DISTRICT	SHEET NO.
SE	6

SE	S
COUNTY	

STE. GENEVIEVE

JOB NO.  
1052600

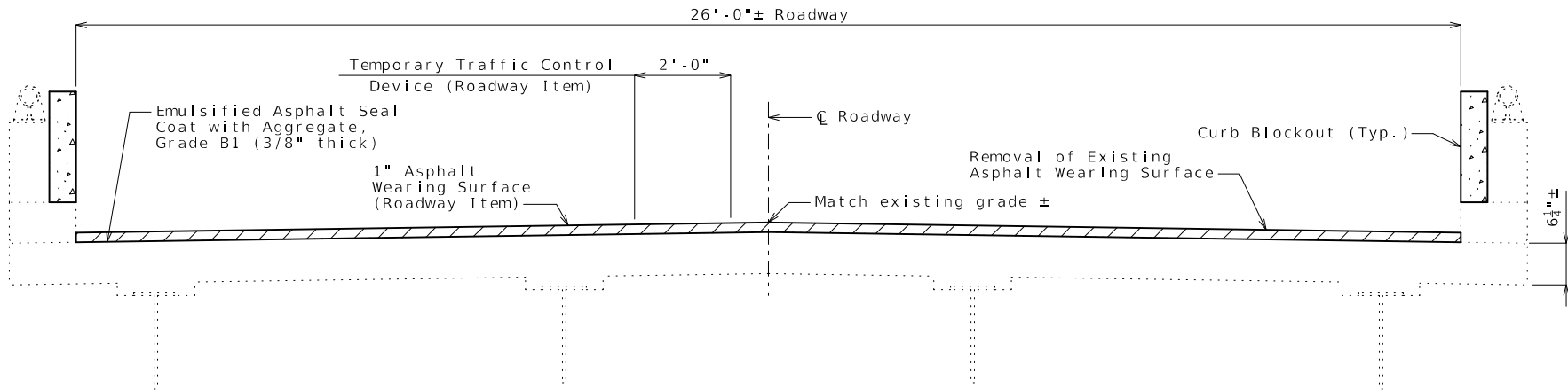
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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





U.I.P. AND REHABILITATE EXISTING 3@ (33') SIMPLE COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: 35° R.A.)



TYPICAL SECTION THRU EXISTING DECK

Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	2645
Emulsified Asphalt, Seal Coat	gallon	118
Seal Coat Aggregate, Grade B1	sq. yard	294
Curb Blockout	linear foot	202

General Notes:

Design Specifications:

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

Design Loading:

H15-44 (1-Lane) (1961)

Design Unit Stresses:

Class B-1 Concrete (Curb Blockout) f'c = 4,000 psi  
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:

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

Miscellaneous:

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

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

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

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

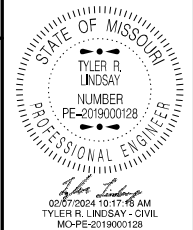
The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the wearing surface.

Traffic Handling:

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

REPAIRS TO BRIDGE: ROUTE B  
OVER MILL CREEK

ROUTE B FROM ROUTE P TO ROUTE CC  
ABOUT 0.4 MILE SOUTH OF ROUTE P  
BEGINNING STATION 321+79.00± (Match Existing)



DATE PREPARED  
2/7/2024

ROUTE B STATE MO

DISTRICT BR SHEET NO. 1

COUNTY  
STE. GENEVIEVE

JOB NO.  
J9S3698

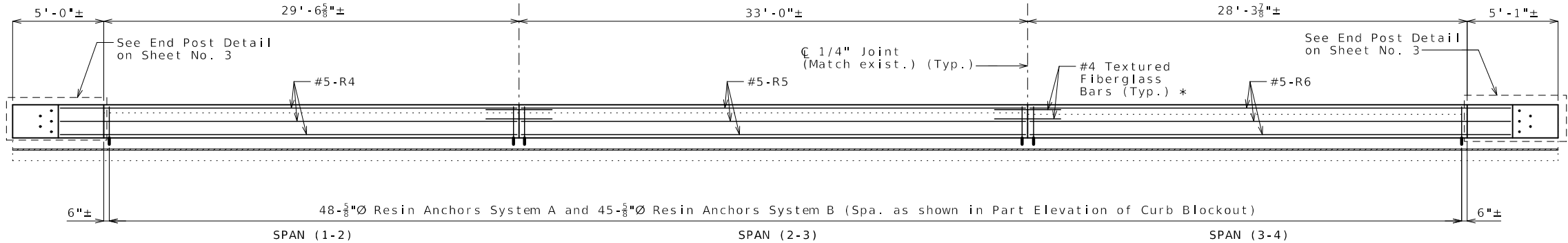
CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
R05351

DESCRIPTION	DATE

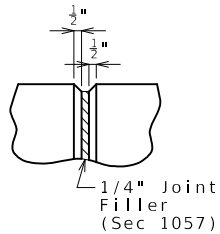




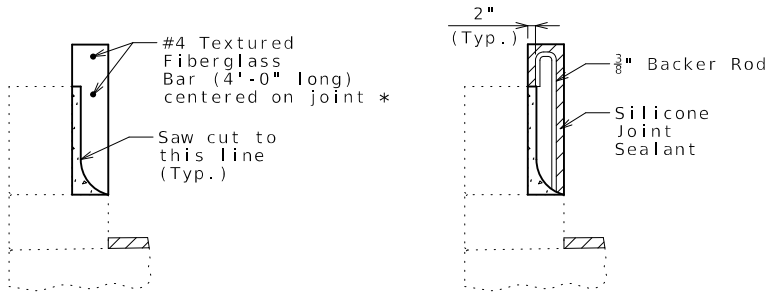
### ELEVATION OF LEFT CURB BLOCKOUT

(Right curb blockout similar by 180° rotation)

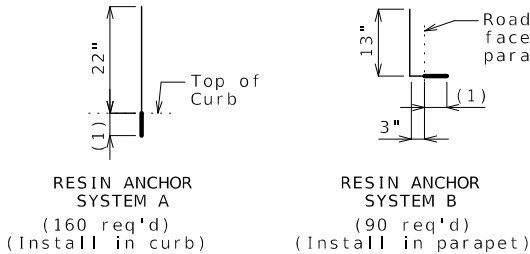
Longitudinal dimensions are along grade and are taken at top outside edge of parapet.



### PART ELEVATION AT FORMED JOINT

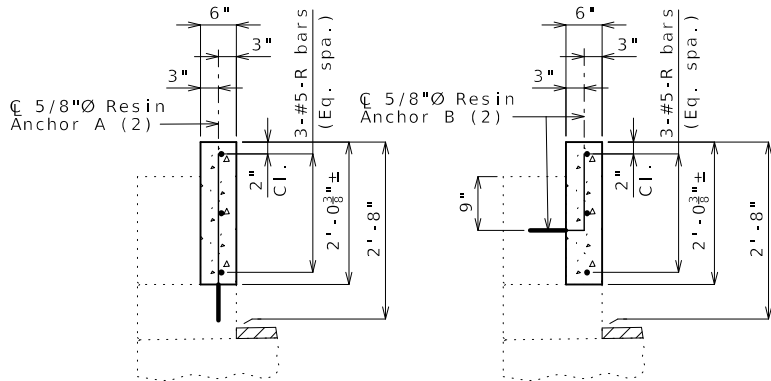


### SECTION THRU SAW CUT JOINT



(1) Use manufacturer's embedment length (5" minimum embedment).

### DETAILS OF RESIN ANCHORS



### SECTION A-A

### SECTION B-B

### CURB BLOCKOUT

Sheet No. 2 of 4

#### Notes:

\* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Bridge rail not shown for clarity.

Concrete in curb blockout shall be Class B-1.

Measurement of curb blockout is to the nearest linear foot, measured at the top outside edge of parapet. (Match existing curb and parapet)

All exposed edges of curb blockout shall have either a 1/2-inch radius or 3/8-inch bevel, unless otherwise noted.

Payment for concrete, reinforcement, resin anchor systems and any other work incidental to the curb blockout, complete in place, will be considered completely covered by the contract unit price for Curb Blockout per linear foot.

Cost of any concrete curb or parapet repair will be considered completely covered by the contract unit price for Curb Blockout.

All curb blockout reinforcement shall be epoxy coated.

(2) Shift resin anchors where necessary to clear existing anchor bolts for bridge rail, miss curb outlets (if present) and clear existing reinforcement.

Use a minimum lap of 3'-1" for #5 horizontal curb blockout bars.

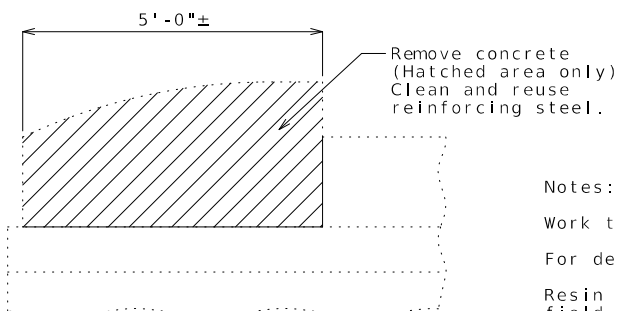
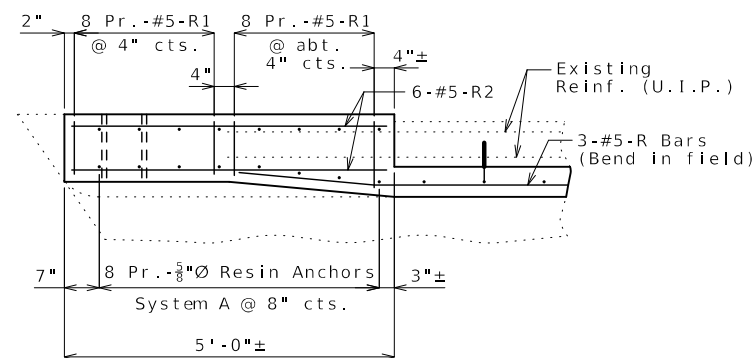
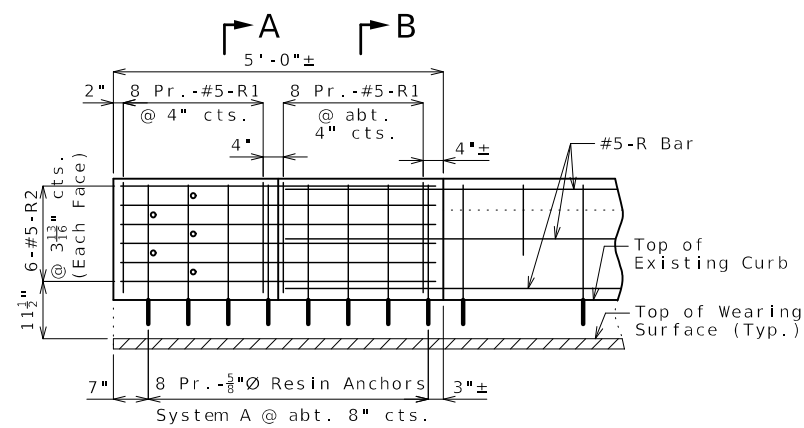
Concrete traffic barrier delineators shall be placed on top of the curb blockout similarly as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Curb Blockout.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8"Ø threaded rod.

For slip-formed option, both sides of the curb blockout shall have a vertically broomed finish and the top shall have a transversely broomed finish.



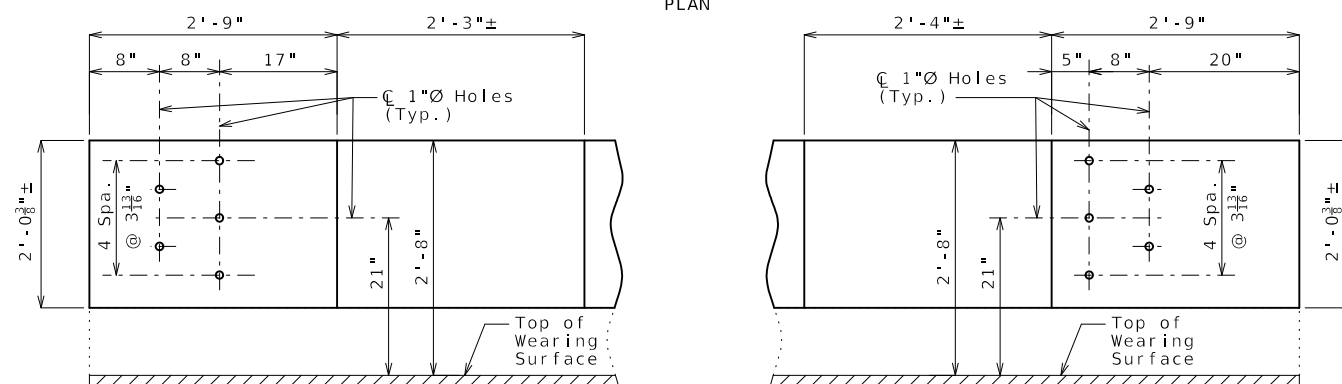
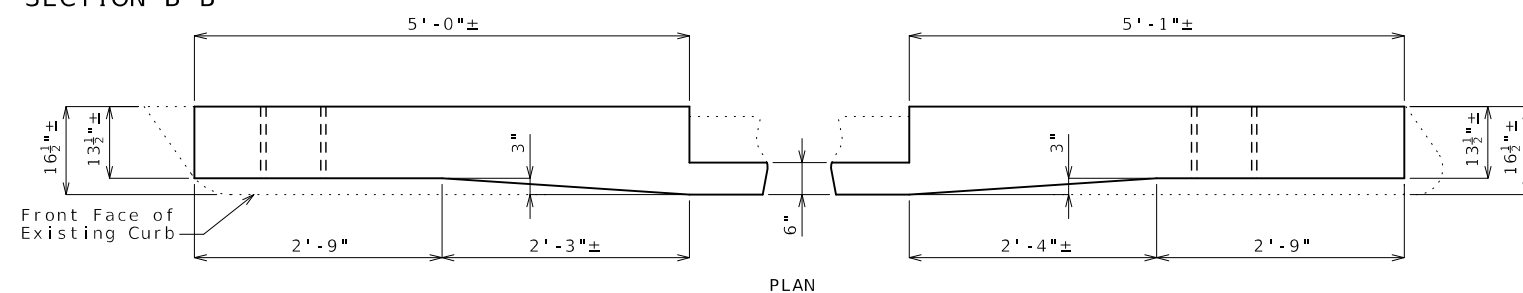
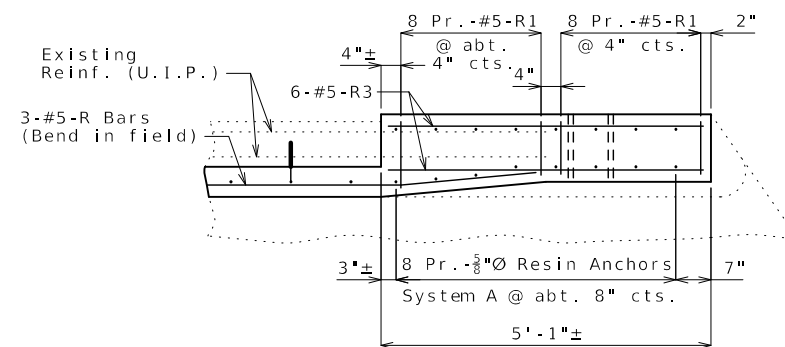
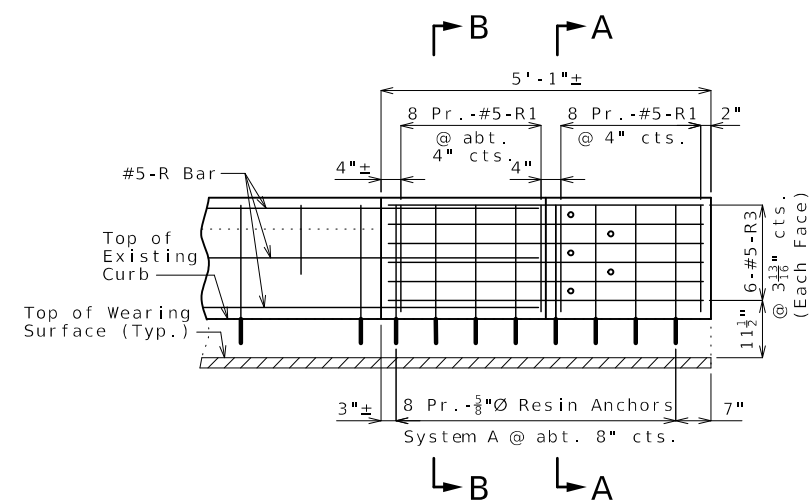
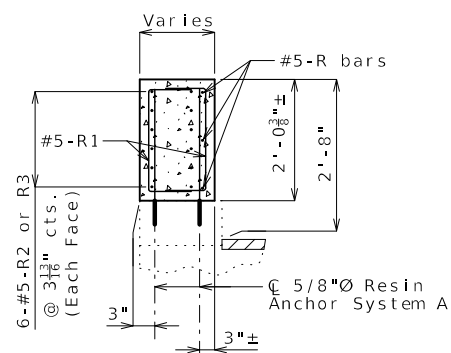
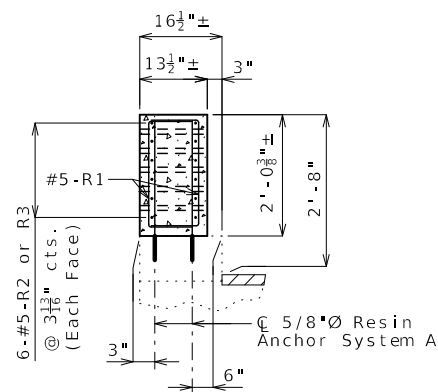
Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout.

Notes :

Work this sheet with Sheet No. 2.

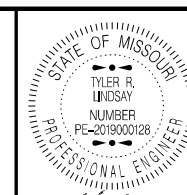
For details of resin anchors, see Sheet No. 2.

Resin anchors shall be shifted or bent in field to clear one-inch diameter holes by at least 1/2 inch.



CURB BLOCKOUT AT END BENTS

### DETAILS OF LEFT END POST AND GUARD RAIL ATTACHMENT



02/07/2024 10:17:39 AM  
TYLER R. LINDSAY - CIVIL  
MO-PE-2019000128

DATE PREPARED

2/7/2024

ROUTE	STA
-------	-----

ROSTER	START
B	MC

D	MR
DISTRICT	SHEET

BB 3

BR	3
COUNTY	

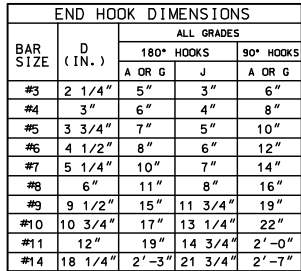
COUNTY  
E GENEVI

E. GENEVI

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LOB. NO.

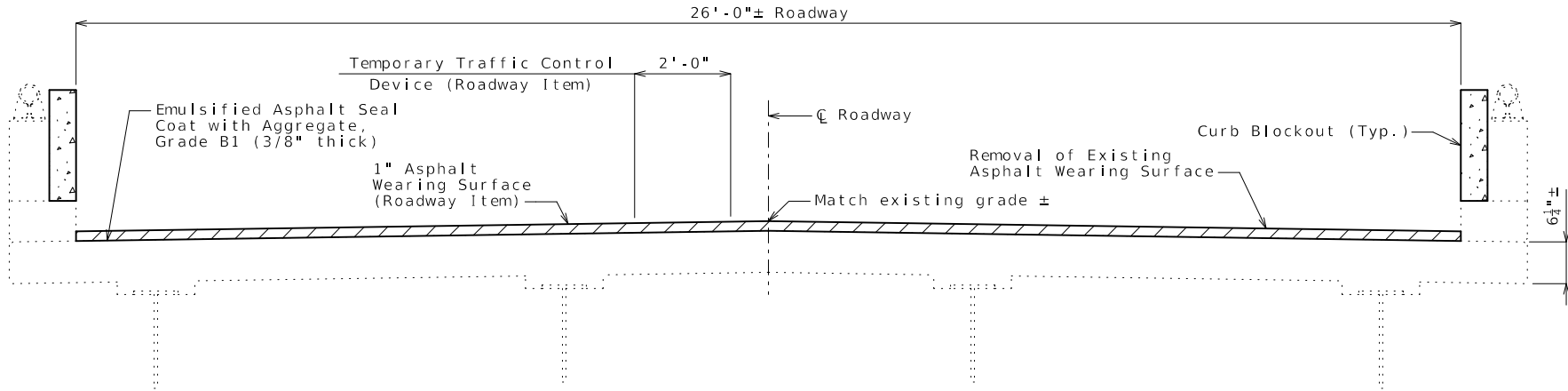
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

[illegible]

REINFORCING STEEL (GRADE 60)  $F_Y = 60,000$  PSI.

[illegible]

U.I.P. AND REHABILITATE EXISTING (65') SIMPLE COMPOSITE WIDE FLANGE BEAM SPAN (SKEW: 15° L.A.)



TYPICAL SECTION THRU EXISTING DECK

Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	1751
Emulsified Asphalt, Seal Coat	gallon	78
Seal Coat Aggregate, Grade B1	sq. yard	195
Curb Blockout	linear foot	134

General Notes:

Design Specifications:

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

Design Loading:

H15-44 (1-Lane) (1961)

Design Unit Stresses:

Class B-1 Concrete (Curb Blockout) f'c = 4,000 psi  
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:

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

Miscellaneous:

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

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

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

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

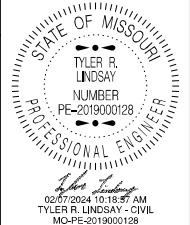
The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the wearing surface.

Traffic Handling:

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

REPAIRS TO BRIDGE: ROUTE B  
OVER MADDEN CREEK

ROUTE B FROM ROUTE F TO ROUTE CC  
ABOUT 1.3 MILES NORTHEAST OF ROUTE F  
BEGINNING STATION 642+56.40± (Match Existing)



DATE PREPARED  
2/7/2024

ROUTE B STATE MO

DISTRICT BR SHEET NO. 1

COUNTY  
STE. GENEVIEVE

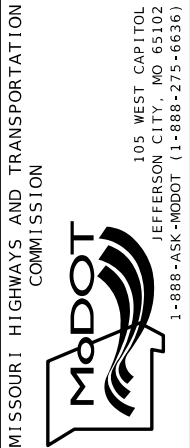
JOB NO.  
J9S3698

CONTRACT ID.

PROJECT NO.

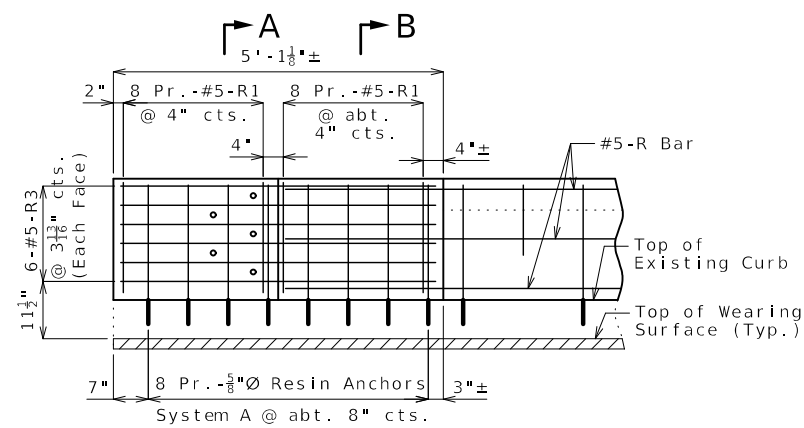
BRIDGE NO.  
R05361


DESCRIPTION	DATE

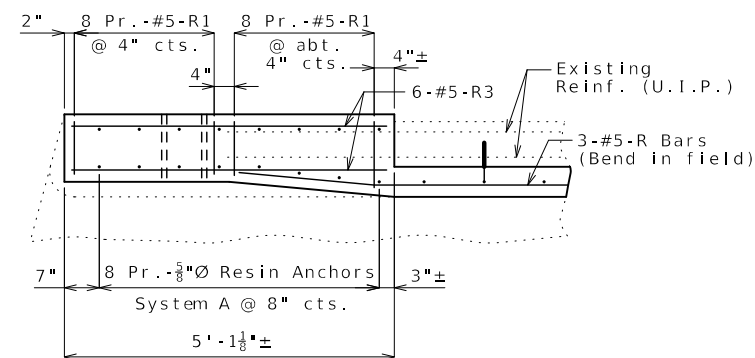




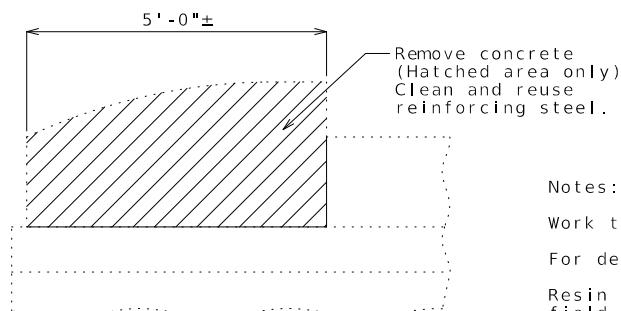





  
 ELEVATION SHOWING REINFORCEMENT  
 (Right End Post at End Bent No. 2 similar)

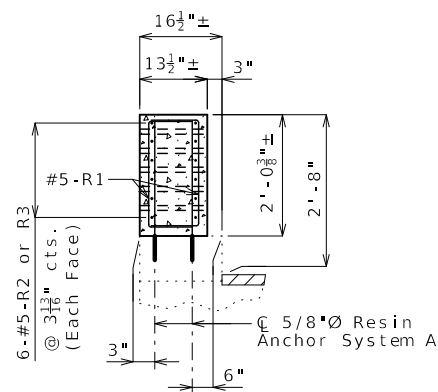


PLAN SHOWING REINFORCEMENT  
LEFT END POST AT END BENT NO. 1

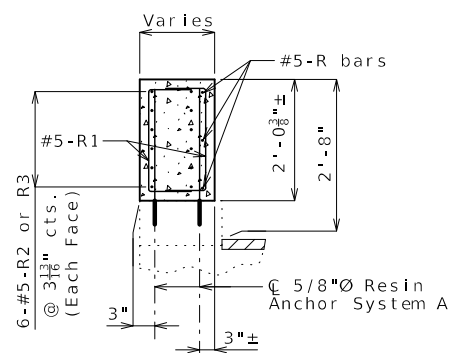


PART ELEVATION SHOWING END POST  
CONCRETE REMOVAL

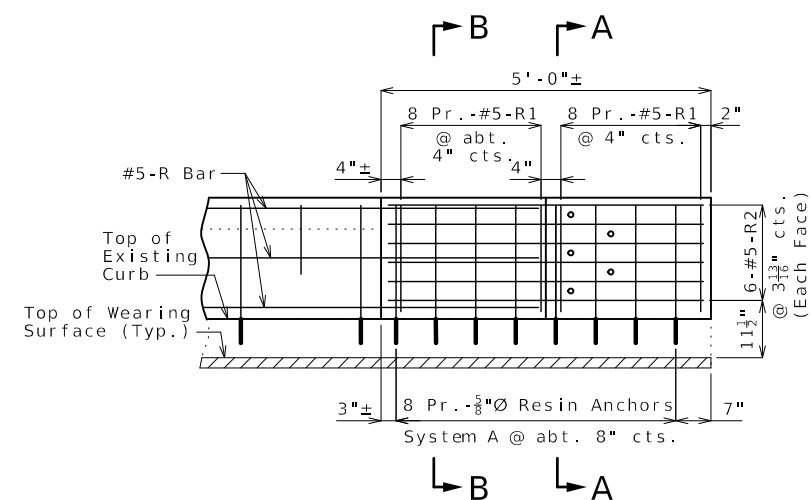
Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout.



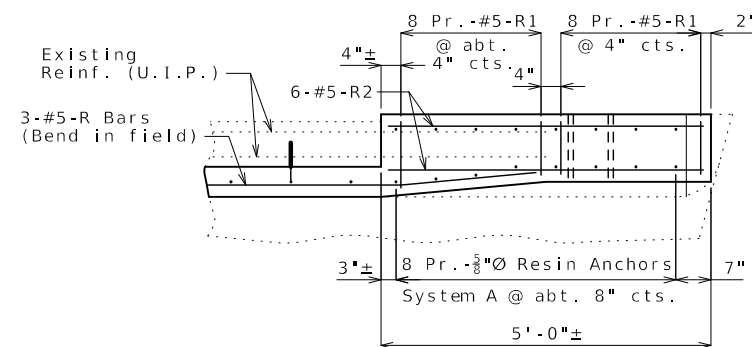
SECTION A-A



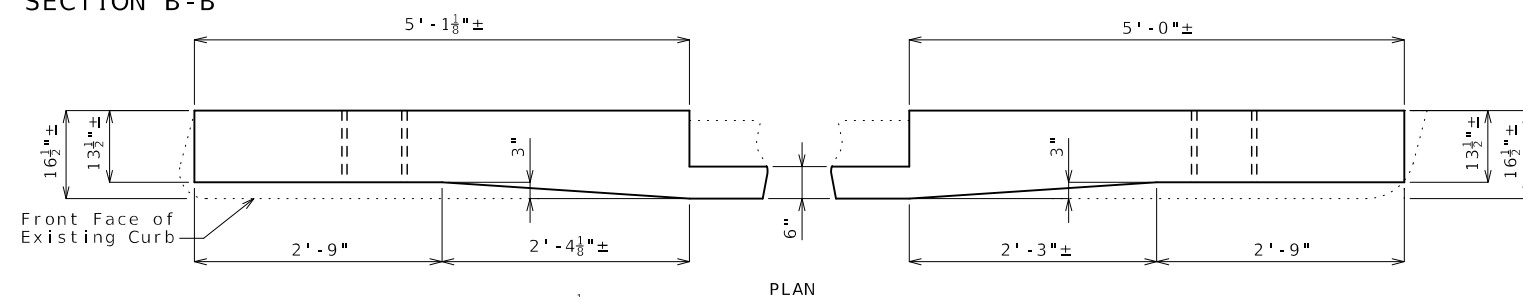
SECTION B-B



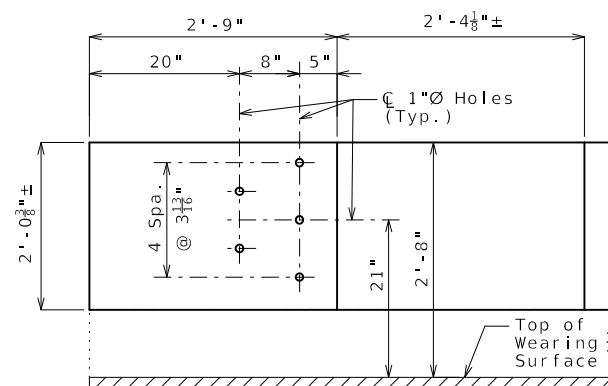
ELEVATION SHOWING REINFORCEMENT  
(Right End Post at End Bent No. 1 similar)



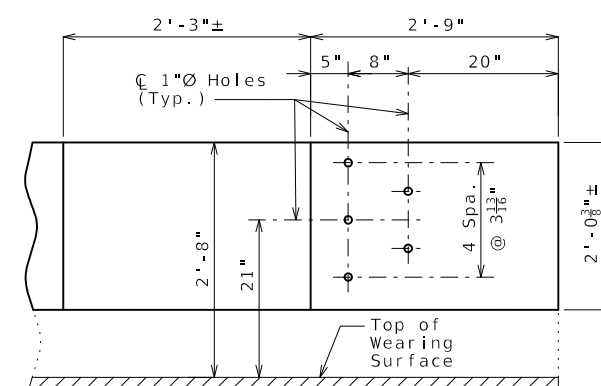
PLAN SHOWING REINFORCEMENT  
LEFT END POST AT END BENT NO. 2



### PLAN

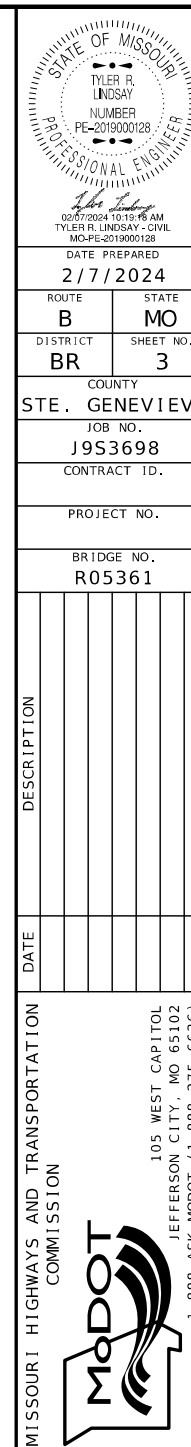


ELEVATION



### DETAILS OF LEFT END POST AND GUARD RAIL ATTACHMENT

CURB BLOCKOUT AT END BENTS



[illegible]

STIRRUP HOOK DIMENSIONS					
GRADES 40 - 50 - 60 KSI					
BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		HOOK A OR G	HOOK A OR G	HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

END HOOK DIMENSIONS					
BAR SIZE	D. (IN.)	ALL GRADES			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	J
#3	2 1/4"	5"	3"	6"	
#4	3	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6	11"	8"	16"	
#9	6 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

Figure 1 shows six standard shapes of reinforcement bars, each with specific dimensions and labels:

- SHAPE 30:** A U-bar with dimensions B, K, D, E, C, F, H, and A.
- SHAPE 31:** A U-bar with dimensions B, D, C, and A.
- SHAPE 32:** A L-bar with dimensions B, D, C, H, and A.
- SHAPE 33:** A hook with dimensions B, K, F, H, D, E, and A.
- SHAPE 34:** A circular hook with dimensions B, D, and A, and a 135° hook angle.
- SHAPE 35:** A spiral bar with dimensions B, D, C, PITCH, and 1-1/2 TURNS.

[illegible]