

DESIGN DESIGNATION

A.A.D.T. - 2024 = 6135  
A.A.D.T. - 2044 = 6778  
D.H.V. = 9.59%  
T = 6.86%  
V = 60 M.P.H.  
D = 46.8%/53.2%

FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
PLANS FOR PROPOSED  
STATE HIGHWAY  
CAPE GIRARDEAU COUNTY



KEY MAP  
LOCATION OF CAPE GIRARDEAU COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET .....	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (2 SHEETS)-----	3
TRAFFIC CONTROL SHEETS (TC)-----	4-5
BRIDGE DRAWINGS (B)	
A48171-----	1



DATE PREPARED  
8/28/2024

ROUTE STATE  
25 MO

DISTRICT SHEET NO.  
SE 1

COUNTY  
CAPE GIRARDEAU

JOB NO.  
J9S3706

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

DESCRIPTION

DATE

DESCRIPTION

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DESCRIPTION

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DESCRIPTION

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DESCRIPTION

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DESCRIPTION

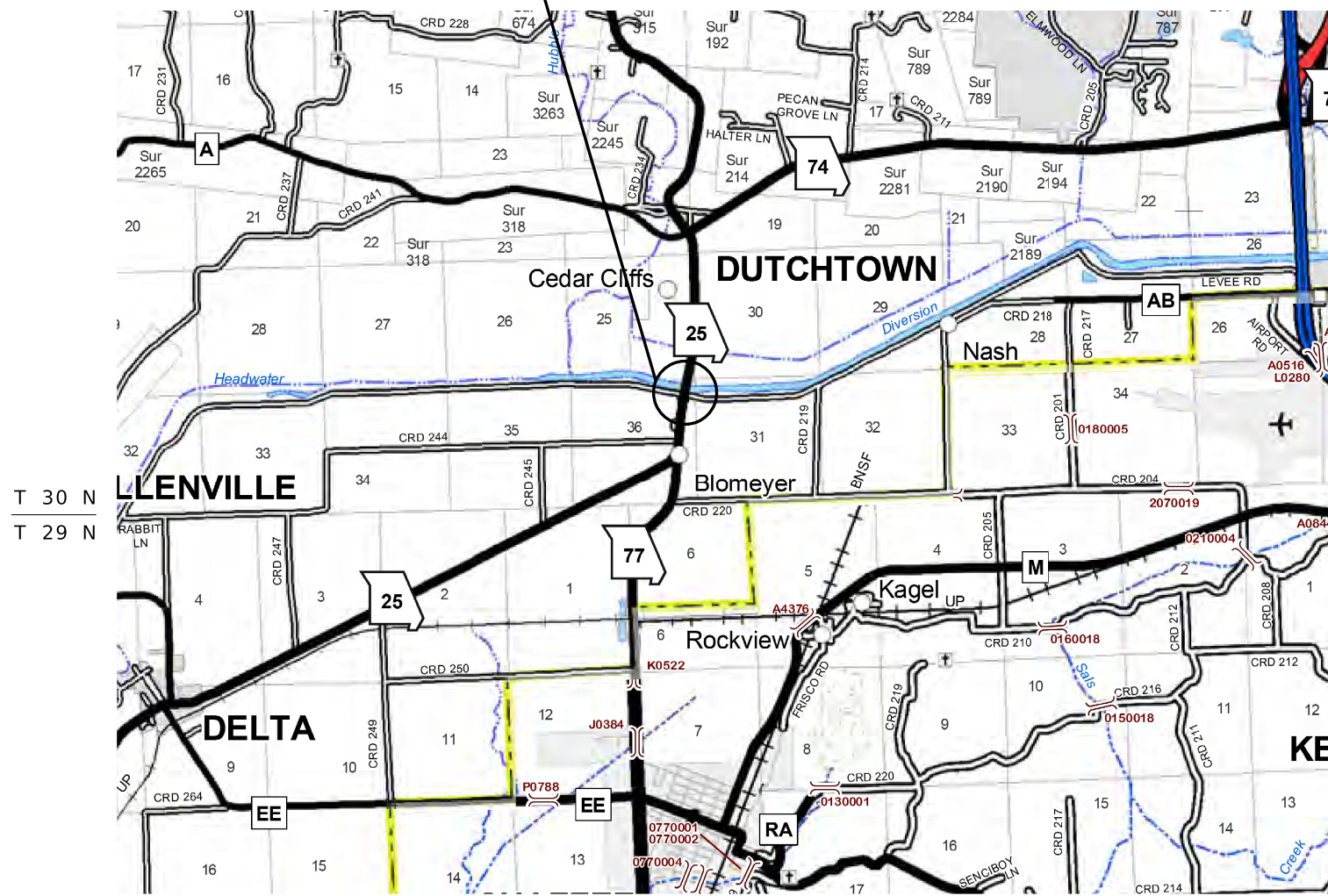
DATE

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	-V-	-V-
WOVEN WIRE	-X-	-X-
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

PROJECT LOCATION  
BRIDGE REHABILITATION



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.

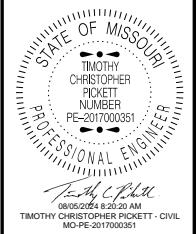
LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 10.386
END OF PROJECT	LOG MILE 10.731
APPARENT LENGTH	0.345 MILES
EQUATIONS AND EXCEPTIONS:	
TOTAL CORRECTIONS	0.000 MILES
NET LENGTH OF PROJECT	0.345 MILES
STATE LENGTH	0.345 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



DATE PREPARED  
7/29/2024

ROUTE	STATE
25	MO
DISTRICT	SHEET NO.
SE	2

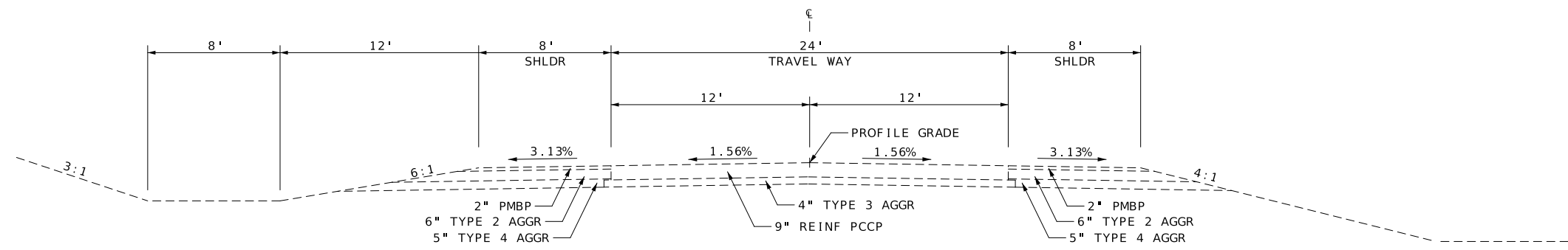
COUNTY  
CAPE GIRARDEAU

JOB NO.  
J9S3706

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



SECTION ON TANGENT  
EXISTING TYPICAL SECTION RTE 25  
LOG MILE 10.386 TO LOG MILE 10.731

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTION  
SHEET 1 OF 1

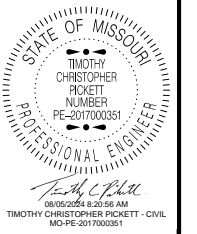
**MOBILIZATION**  
LUMP SUM 1

GUARDRAIL					
LOCATION	MGS BRIDGE APPROACH TRANSITION SECTION EA	MGS GUARDRAIL LF	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CLASS III - MODIFIED MATERIAL REQUIREMENT 100FT	REMARKS
☉ RTE 25	1	75.0	1	0.8	SOUTH END BRIDGE A4817(RT)
☉ RTE 25	1		1	0.5	SOUTH END BRIDGE A4817(LT)
☉ RTE 25	1		1	0.5	NORTH END BRIDGE A4817(RT)
☉ RTE 25	1	75.0	1	0.8	NORTH END BRIDGE A4817(LT)
TOTAL	4	150	4	3	

\*\*CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL AND LABOR REQUIRED TO ATTACH END TERMINAL TO THE CONCRETE BARRIER  
ALL COSTS ASSOCIATED WITH THIS INSTALLATION SHALL BE CONSIDERED COMPLETELY COVERED BY THE ABOVE PAY ITEM.

TEMPORARY REMOVALBLE MARKING TAPE & PAINT REMOVAL					
LOC	TEMPORARY REMOVABLE MARKING TAPE			PAVEMENT MARKING REMOVAL	REMARKS
	4" WHITE LF	4" YELLOW LF	24" WHITE LF	LF	
☉ RTE 25	1872.0	2000.0	24.0	6533.0	TRAFFIC CONTROL SHEET 1 OF 1
TOTAL	1872	2000	24	6533	

PAVEMENT MARKING		
LOCATION	STANDARD WATERBORNE 4" YELLOW LF	REMARKS
☉ RTE 25	2373	
TOTAL	2373	



DATE PREPARED  
7/29/2024

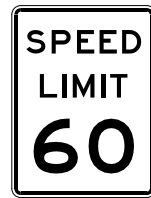
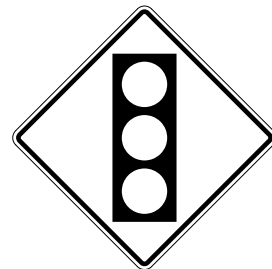
ROUTE 25 STATE MO  
DISTRICT SE SHEET NO. 3  
COUNTY  
CAPE GIRARDEAU  
JOB NO.  
J9S3706  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION



SUMMARY OF QUANTITIES  
SHEET 1 OF 2





R2-1

WO20-4

WO3-3

R10-6L

R2-1

GO20-5aP

WO20-1

(4)

(7)

(12)

(47)

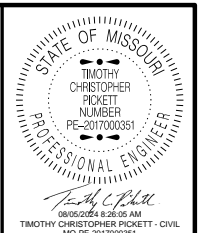
(25)

(54)

(2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ◁ ▷ PORTABLE TRAFFIC SIGNAL



DATE PREPARED 8/1/2024

ROUTE 25 STATE MO

DISTRICT SE SHEET NO. 4

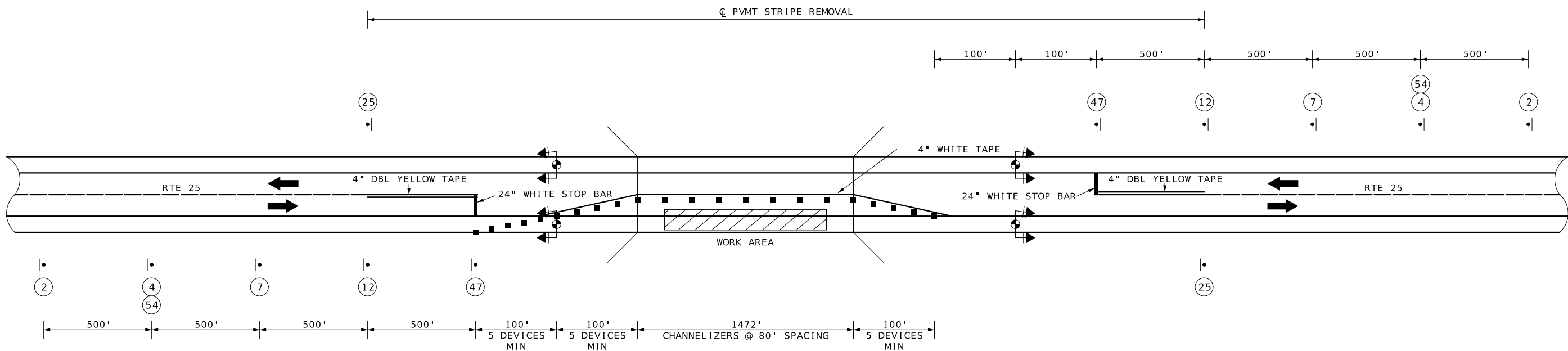
COUNTY CAPE GIRARDEAU

JOB NO. J9S3706

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



NOTES:

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

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

NO PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS.

CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING PHASING, INTERCONNECTION AND OPERATION OF SIGNALS PRIOR TO ENGINEER'S APPROVAL OF SIGNAL INSTALLATIONS

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET 1 OF 2



WO20-1  
2



R2-1  
4



WO20-4  
7



WO20-7a  
8



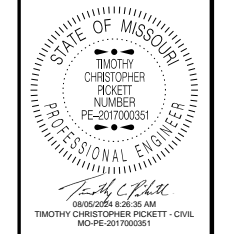
R2-1  
25



GO20-5aP  
54

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ◁ FLAGGER



DATE PREPARED  
7/29/2024

ROUTE 25 STATE MO

DISTRICT SE SHEET NO. 5

COUNTY  
CAPE GIRARDEAU

JOB NO.  
J9S3706

CONTRACT ID.

PROJECT NO.

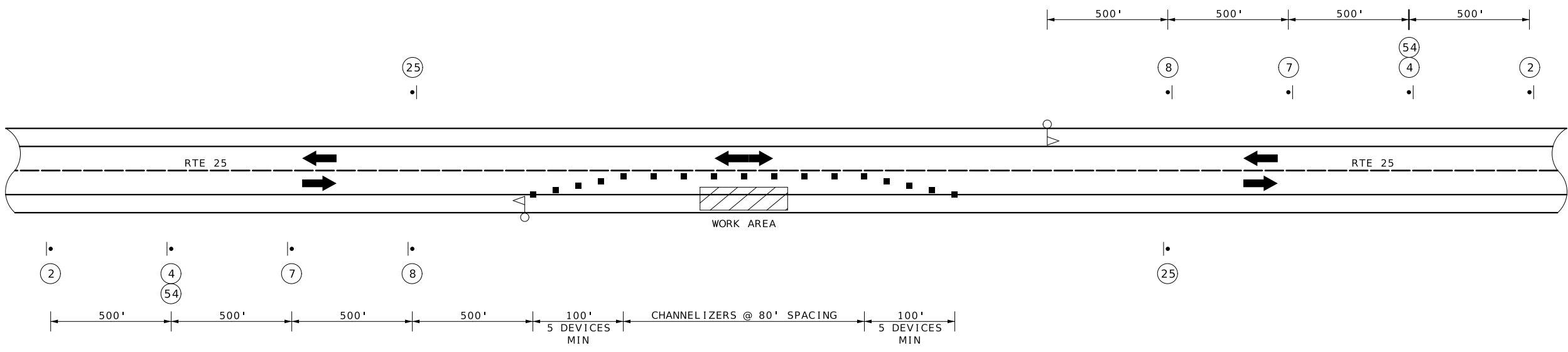
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET 2 OF 2



NOTES:

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

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

NO PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS.

U.I.P. AND REHABILITATE EXISTING (76'-76')(6 @ 88')(6 @ 88')(3 @ 88') PRESTRESSED CONCRETE I-GIRDER SPANS (SKEW: SQUARE)

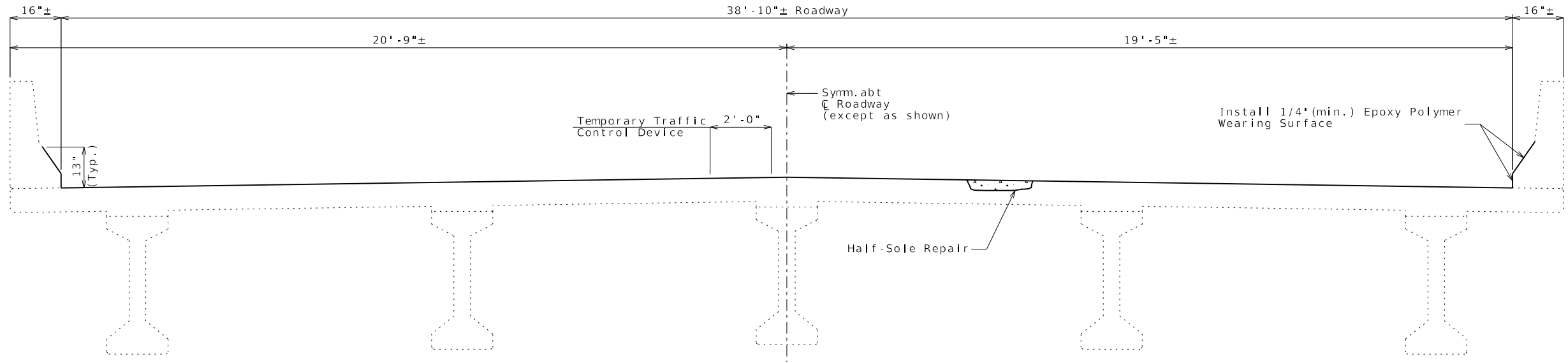


DATE PREPARED  
8/5/2024  
ROUTE 25 STATE MO  
DISTRICT BR SHEET NO. 1  
COUNTY CAPE GIRARDEAU  
JOB NO. J9S3706  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO. A48171

DESCRIPTION	DATE

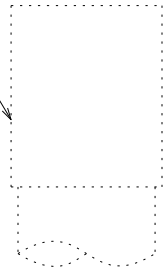
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

REPAIRS TO BRIDGE: ROUTE 25 OVER HEADWATER DIVERSION CHANNEL  
ROUTE 25 FROM ROUTE AB TO ROUTE 74 ABOUT 0.33 MILES NORTH OF ROUTE AB BEGINNING STATION 275-86.50± (Match Existing)



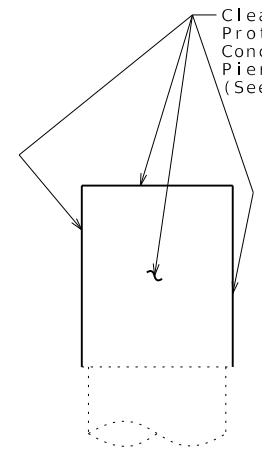
TYPICAL SECTION THRU EXISTING DECK

Apply Epoxy Pressure Injection to cracks on face of beam cap at Intermediate bent No.2.



PART ELEVATION OF INTERMEDIATE BENT No.2

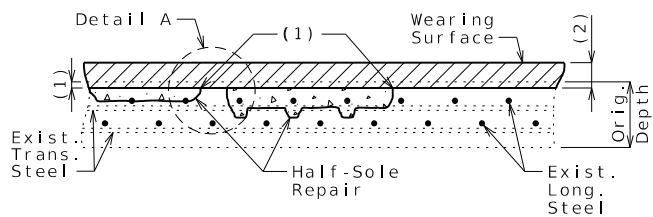
Clean and seal with Protective Coating - Concrete Bents and Piers (Epoxy) (See Sec 711)



PART END ELEVATION OF INTERMEDIATE BENTS NO. 3, 9, 12 & 15 SHOW PROTECTIVE COATING

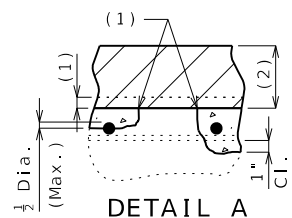
Estimated Quantities		
Item	Quantity	Quantity
*Epoxy Polymer Wearing Surface	sq.yard	6782
Substructure Repair (Unformed)	sq.foot	240
Half-Sole Repair	sq.foot	500
Epoxy Pressure Injecting	linear.foot	20
Epoxy Repairs at Expansion Joints	each	3
Protective Coating - Concrete Bents & Piers(Epoxy)	lump sum	1

\* Wearing Surface area includes slab and 16" up along roadway face of barriers (13" vertical height) from end of slab to end of slab. The contractor shall exercise care to ensure spillage over joint edge is prevented and that a neat line is obtained along any terminating edge of the wearing surface.



HALF-SOLE REPAIR

- (1) 1" vertical side shall be established outside the deteriorated area.
- (2) 1/4" minimum Epoxy Polymer Wearing Surface



General Notes:

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

Design Loading:  
HS20-44 (1989 and New Construction)

Design Unit Stresses:  
Class B-1 Concrete  
(Half-Sole Repair) f'c = 4,000 psi

Protective Coatings:  
Epoxy Repairs at Expansion Joints:  
After half-sole repairs have cured, apply epoxy pressure injection to fill remaining gaps in the deck concrete, adjacent to the expansion joints near Intermediate bents 3,9 and 15. All materials, labor etc to complete this work shall be considered completely covered by the contract unit price for Epoxy Repairs at Expansion Joints.

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

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.

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