DESIGN DESIGNATION

A.A.D.T. – 2025 = 85345
T = 11%
V = 60 M.P.H.

FUNCTIONAL CLASSIFICATION – INTERSTATE

NO NEW RIGHT OF WAY

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

ST. LOUIS COUNTY CONSTRUCTION PLANS

N.T.S.

PROJECT LOCATION

BRIDGE REPAIR
BR A10064

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	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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.

INDEX OF SHEETS

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QUANTITIES (QU) (2 SHEETS)	3
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SIGNING (SN)	21 – 22
BRIDGE DRAWINGS (B)	
A10064	1 – 12

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LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	761 + 80.00
END OF PROJECT	STA.	762 + 70.00
APPARENT LENGTH		90.00 FEET
EQUATIONS AND EXCEPTIONS:		
TOTAL CORRECTIONS		0.00 FEET
NET LENGTH OF PROJECT		90.00 FEET
STATE LENGTH		0.017 MILES
ESTIMATED DISTURBED ACRES (FOR INFORMATION ONLY)		0 ACRES

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER NUMBER PE-2008019525
PROFESSIONAL ENGINEER
08/01/2025 8:24:26 AM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED: 8/1/2025

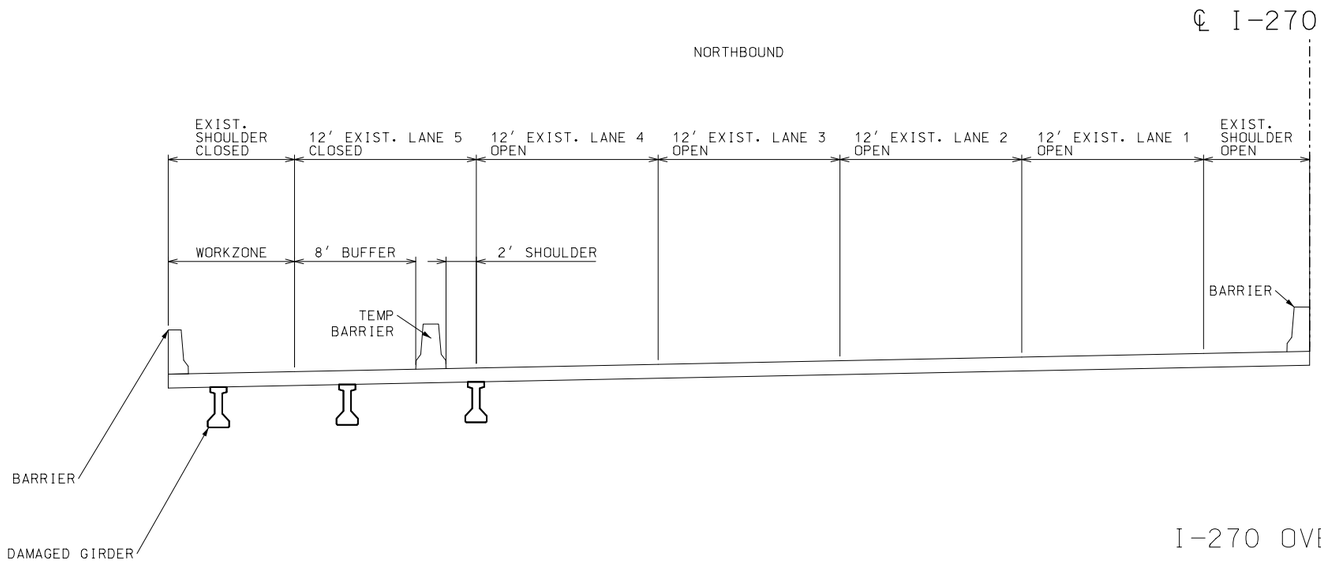
ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	1

COUNTY: ST. LOUIS
JOB NO.: JSLM0112
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A10064

DESCRIPTION	DATE

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

TITLE SHEET



I-270 OVER I-44

NOTES

1) TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD PLAN 616.10 FOR TRAFFIC CONTROL DEVICES.

2) PAVEMENT MARKINGS SHALL BE MAINTAINED IN ACCORDANCE WITH PART 6 OF THE MUTCD. INTERIM PAVEMENT MARKINGS MAY BE LEFT IN PLACE FOR SITUATIONS OF TWO WEEKS OR LESS. TEMPORARY MARKINGS SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.

3) CHANNELIZERS SHALL BE PLACED EVERY 60 FEET ON INTERSTATE 270 AND INTERSTATE 44 UNLESS SHOWN OTHERWISE ON THE PLANS.

4) IF AN OPEN TRENCH CONDITION WILL REMAIN OPEN OVERNIGHT, "PAVEMENT EDGE TREATMENT" SHALL BE PROVIDED IN ACCORDANCE WITH MODOT STANDARD PLAN 619.10. NO DIRECT PAY.

5) ANY EXISTING SIGNS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED.

6) ALL SPACING AND DISTANCES ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

7) USE A FLAGGER WHEN MOVING EQUIPMENT ON AND OFF THE ROADWAY, OTHERWISE OPTIONAL.

8) CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING TEMPORARY TRAFFIC CONTROL APPURTENANCES WITH MODOT PRIOR TO IMPLEMENTING NEW TRAFFIC CONTROL PLAN.

TYPICAL SECTIONS
SHEET 1 OF 1

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:00:33 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTION

REMOVAL OF IMPROVEMENTS						
BEGIN STATION	END STATION	ROADWAY	LOCATION	DESCRIPTION	QUANTITY	UNITS
762+50		ROIJTE 270	LT	REMOVE LOW CLEARANCE SIGN FROM BRIDGE	1	EA
				TOTALS	**1**	**LS**

INCIDENTAL CONSTRUCTION QUANTITES BASED ON STAGE 1 TRAFFIC CONTROL								
BEGIN STATION	END STATION	ROADW A Y	LOCATION	LOCATION	TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING LS	MOBILIZATION LS	TEMPORARY REMOVABLE TAPE 6 IN., WHITE LF	6 IN. WHITE CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) LF
761+80	762+70	INTERSTATE 270			1	1		90
767+45	784+83	INTERSTATE 270					891	434
				TOTALS	**1**	**1**	**891**	**524**

CONTRACTOR FURNISHED SURVEYING & STAKING
LUMP SUM	QUANTITY
	1

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QUANTITIES
SHEET 1 OF 2

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
8/1/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

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

QUANTITY SHEET

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00	2	32.00				DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00	1	16.00				MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00	3	48.00				MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00	1	4.00				DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	17	272.00				ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00	3	48.00				DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	4	64.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00	3	48.00				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	4	64.00				RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

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
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16.00				END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	2	12.00				WORK ZONE (PLAQUE)
M04-8a	24X18	3.00	2	6.00				END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	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	48.00				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	1	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						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	3	30.00				ROAD CLOSED
R11-3a	60X30	12.50	1	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						RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE
M1-1	30X24	5.00	3	15.00				INTERSTATE ROUTE SIGN
M3-1-BL	24X12	2.00	3	6.00				CARDINAL DIRECTION AUXILIARY SIGN
SP-50	36X96	24.00	34	816.00				DETOUR ASSEMBLY

616-10.05 CONSTRUCTION SIGNS	TOTAL 1564	
616-10.10 RELOCATED SIGNS		TOTAL *

* NOTE: NO DIRECT PAYMENT SHALL BE MADE TO RELOCATE OR COVER/UNCOVER EXISTING OR TCP SIGNS.

** INDICATES ITEM NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL LUMP SUM BID ITEM.

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	** 1	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020	** 10	REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001	** 1	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	8	ADVANCED WARNING RAIL SYSTEM
6161009	16	FLAG ASSEMBLY
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	245	CHANNELIZER (TRIM LINE)
6161030	38	TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHTS
6161033	53	DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	4	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161052		WARNING LIGHT, TYPE B
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	15	TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D	** 800	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		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
6169902	** 4	NTCIP COMPLIANT CHANGEABLE MESSAGE SIGN (CONTRACTOR FURNISHED AND RETAINED)

LINE NO. 0050
TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

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QUANTITIES
SHEET 2 OF 2

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER NUMBER PE-2008019525
PROFESSIONAL ENGINEER
08/01/2025 1:34:25 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
8/1/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

QUANTITY SHEET

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADES
- TYPE III BARRICADE
- TYPE II ADA BARRICADE
- IMPACT ATTENUATOR
- LANE USE ARROW
- WORK AREA
- FLASHING ARROW PANELS
- FLAGGER
- CHANGEABLE MESSAGE BOARD
- BARRIER HEIGHT TRANSITION

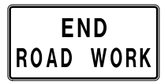
W020-1
(2)

W020-5
(5)

W020-6a
(6)

W04-1a
(6A)

W021-5b
(21)



G020-2
(25)

CHANNELIZING DEVICE SPACING[1]		
POSTED SPEED PRIOR TO CONSTRUCTION, MPH (P)	MAX. CHANNELIZER SPACING THROUGH TAPER (X)	MAX. CHANNELIZER SPACING THROUGH WORK AREA (Y)
0 TO 35	$35^{/2}$	$40^{/2}$
40 TO 45	$40^{/2}$	$80^{/2}$
50 TO 55	$50^{/3}$	$80^{/3}$
60 TO 70	$60^{/3}$	$120^{/3}$

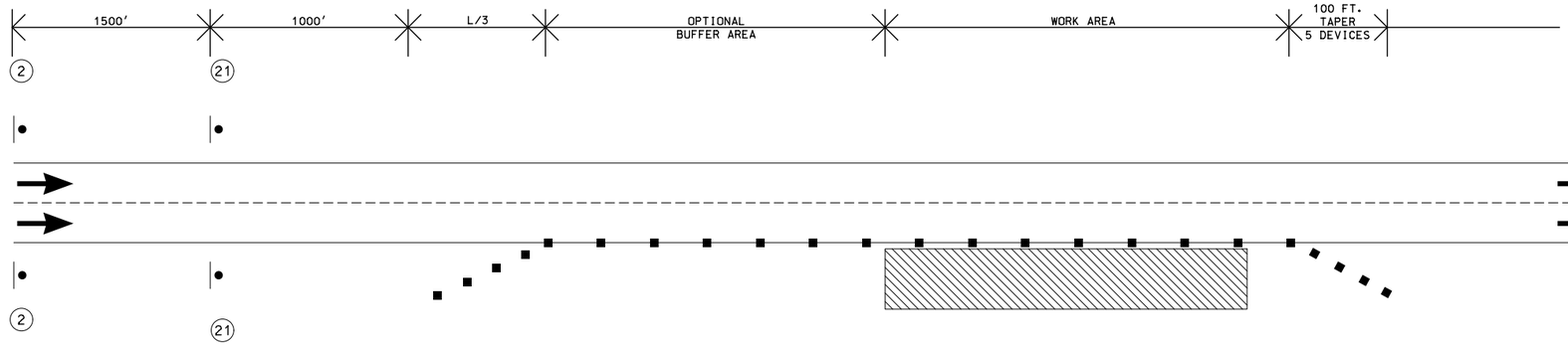
(1) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
(2) SPACING REDUCED $\frac{1}{2}$ AT INTERSECTIONS.
(3) SPACING MAY BE REDUCED TO $\frac{1}{2}$ AT INTERSECTIONS.

TAPER LENGTHS

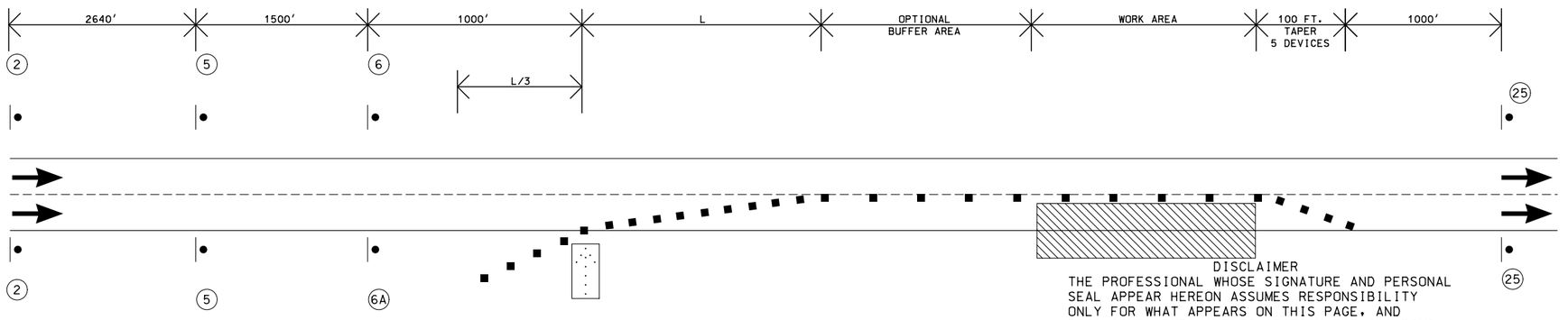
L= W x P FOR 40 MPH OR MORE
L= $\frac{WP^2}{60}$ FOR 35 MPH OR LESS
L= TAPER LENGTH IN FEET
W= LATERAL SHIFT IN FEET
P= POSTED SPEED PRIOR TO CONSTRUCTION

BUFFER SPACE	
POSTED SPEED PRIOR TO CONSTRUCTION, MPH (P)	RECOMMENDED LENGTH OF LONGITUDINAL BUFFER
0 TO 35	280 FT
40 TO 45	400 FT
50 TO 55	560 FT
60 TO 70	840 FT

WORK ON SHOULDER WITH NO TRAVELWAY ENCROACHMENT



LANE CLOSURE



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TRAFFIC CONTROL
TYPICAL APPLICATIONS
SHEET 1 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 4:18:40 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

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

W020-1 (I-270)

2

W020-1 (I-44)

2

G020-5aP

54

R2-1

4

W020-5

5

M3-1-BL

64

M1-1

63

W020-5a

5A

R3-7L

61

W020-6a (I-270)

6

W020-6a (I-44)

6

W04-1aL (I-270)

6A

M3-1-BL

64

M1-1

63

W020-3 (I-270)

20

W020-3 (I-44)

20

W04-1aR (I-44)

6A

R2-1

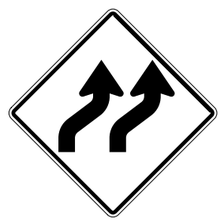
25

R11-2

29

W012-1

62



W01-4bR

32

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TRAFFIC CONTROL
SHEET 2 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER

07/31/2025 4:19:21 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

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

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I-270 TRAFFIC CONTROL PHASE 1 -
NB I-270 TO WB I-44 RAMP CLOSED
(QUANTITIES BASED ON STAGE 1 TRAFFIC CONTROL)

1000'

100' TAPER
5 DEVICE
MINIMUM

290' BUFFER ZONE
60' CHANNELIZER SPACING

90'
WORK ZONE

1000' MIN. BUFFER ZONE
120' CHANNELIZER SPACING
(WHERE APPLICABLE)

STA. 757+00

STA. 760+92

STA. 761+80

STA. 762+70

MATCHLINE STA. 765+50

STA. 751+80

I-270 NB

I-270 SB

I-44 WB

I-44 EB

CONC

BIT

755

760

765

25

DURING DEMOLITION, THE INSIDE I-44 EB LANE WILL BE CLOSED ACCORDING TO THE LANE CLOSURE TYPICAL APPLICATION AS SHOWN ON SHEET 5 OF THE PLANS.

PHASE 1 CLOSURE - I-270 NB, I-44 WB, AND I-44 EB (UNTIL DEMO COMPLETE).
PHASE 1A CLOSURE - I-270 NB ONLY
PHASE 1 CLOSURE - I-270 NB AND I-44 WB

REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.

LEGEND

- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE

SCALE
0 50 100 150

SPEED LIMIT 60
R2-1
25

TRAFFIC CONTROL
I-270 - PHASE 1
SHEET 3 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:15:50 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

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

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I-270 TRAFFIC CONTROL PHASE 1A –
NB I-270 TO WB I-44 RAMP OPEN
(QUANTITIES BASED ON STAGE 1 TRAFFIC CONTROL)

1000'

100' TAPER
5 DEVICE
MINIMUM

90'
WORK ZONE

1000' MIN. BUFFER ZONE
120' CHANNELIZER SPACING
(WHERE APPLICABLE)

STA. 759+92

STA. 761+80

STA. 762+70

MATCHLINE STA. 765+50

STA. 751+80

I-270 NB

I-270 SB

I-44 WB

I-44 EB

CONC

BIT

DURING DEMOLITION, THE INSIDE I-44 EB LANE WILL BE CLOSED ACCORDING TO THE LANE CLOSURE TYPICAL APPLICATION AS SHOWN ON SHEET 5 OF THE PLANS.

PHASE 1 CLOSURE – I-270 NB, I-44 WB, AND I-44 EB (UNTIL DEMO COMPLETE).
PHASE 1A CLOSURE – I-270 NB ONLY
PHASE 1 CLOSURE – I-270 NB AND I-44 WB

REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.

LEGEND

- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE

SCALE
0 50 100 150

SPEED LIMIT 60
R2-1
25

TRAFFIC CONTROL
I-270 – PHASE 1A
SHEET 4 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:16:33 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

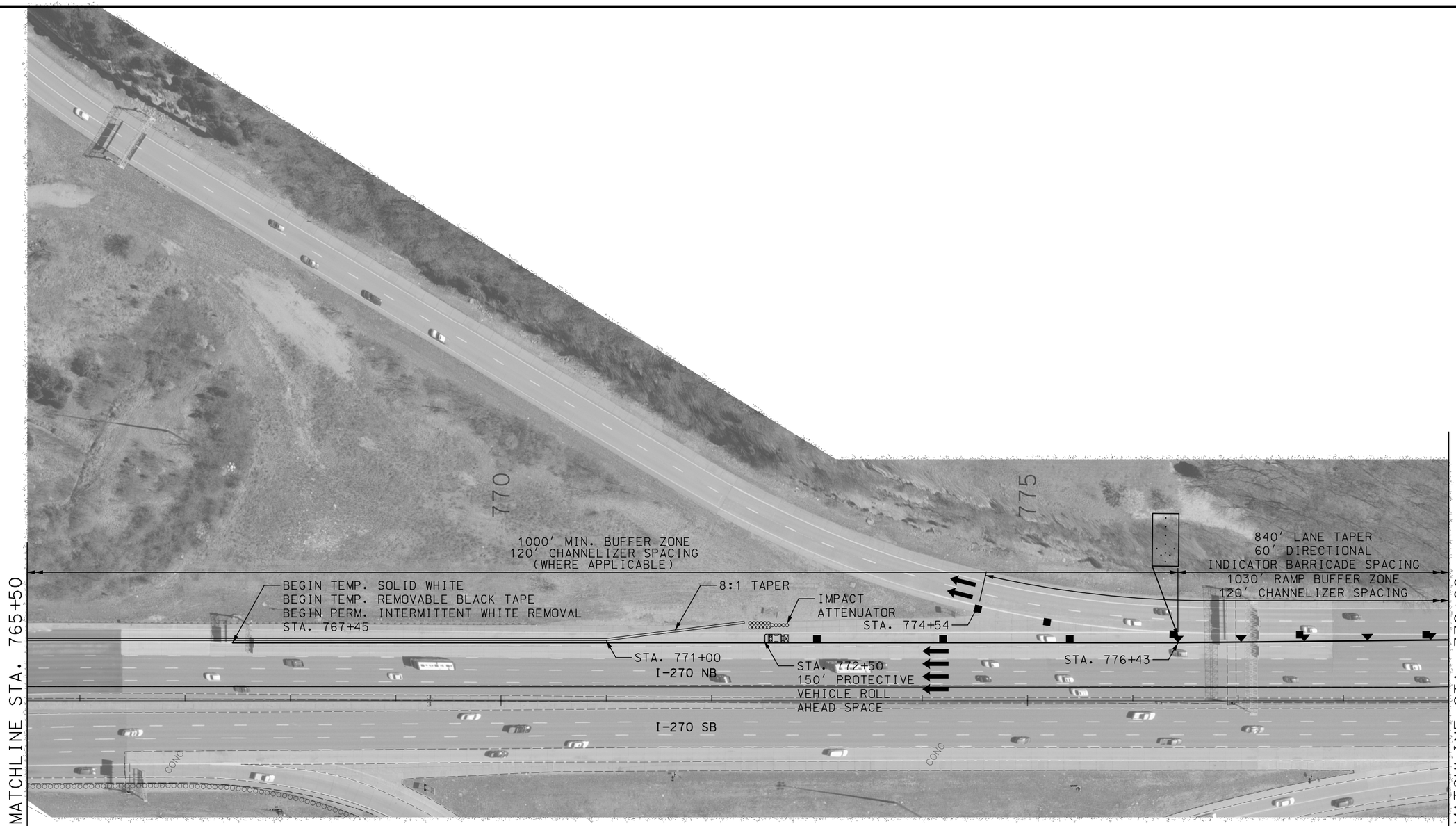
BRIDGE NO.
A10064

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



LEGEND

- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE

SCALE
0 50 100 150

REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.

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TRAFFIC CONTROL
I-270 – PHASE 1 & 1A
SHEET 5 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:18:33 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

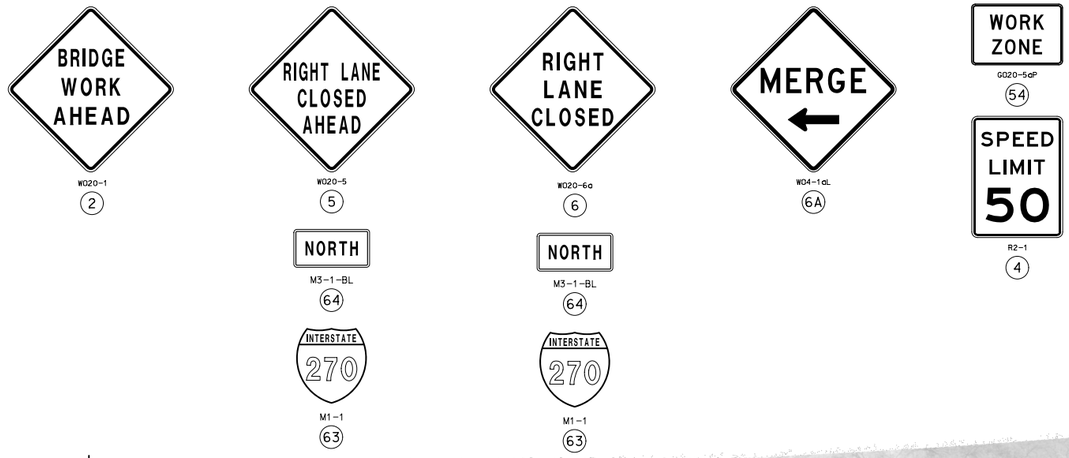
PROJECT NO.

BRIDGE NO.
A10064

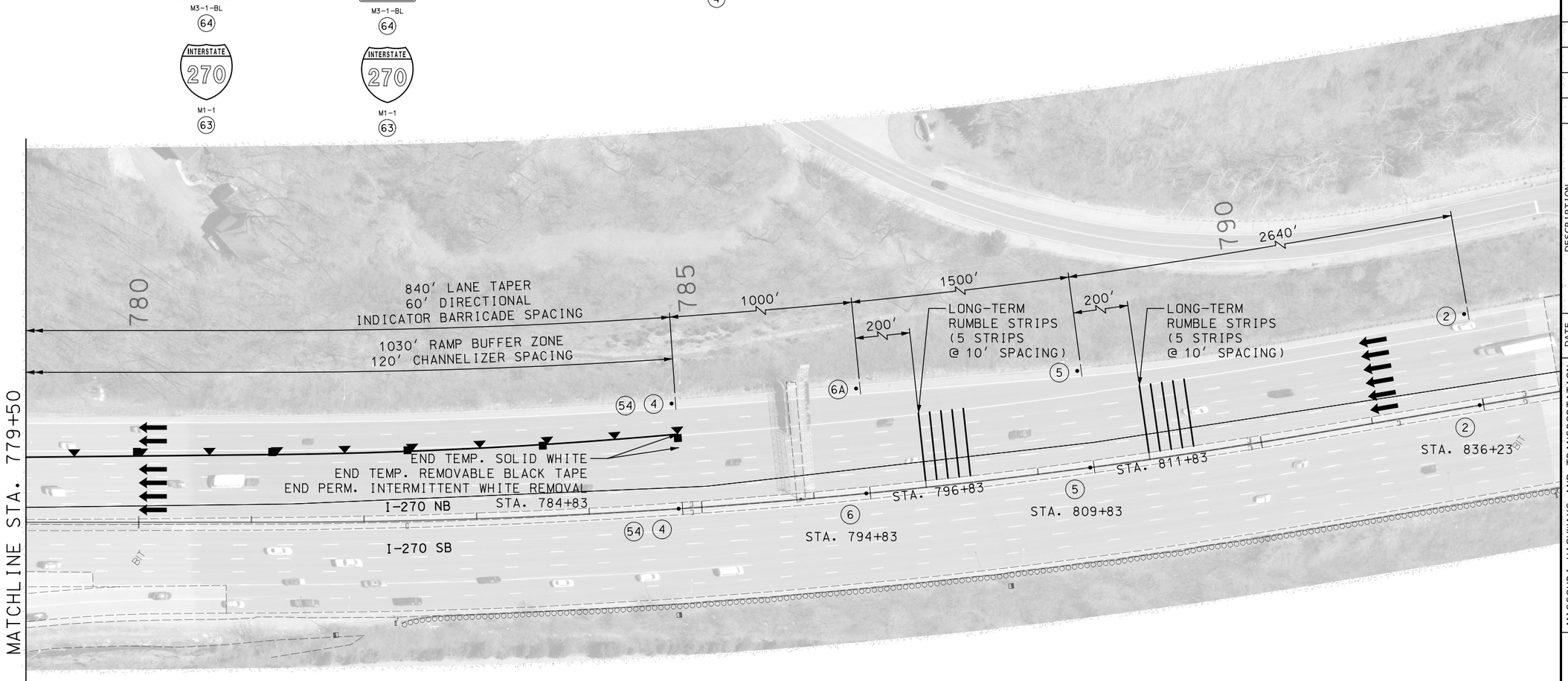
DESCRIPTION	DATE

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

TRAFFIC CONTROL SHEET



REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.



LEGEND

- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE

SCALE
0 50 100 150

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TRAFFIC CONTROL
I-270
SHEET 6 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 4:23:02 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

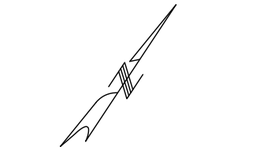
DESCRIPTION	DATE

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

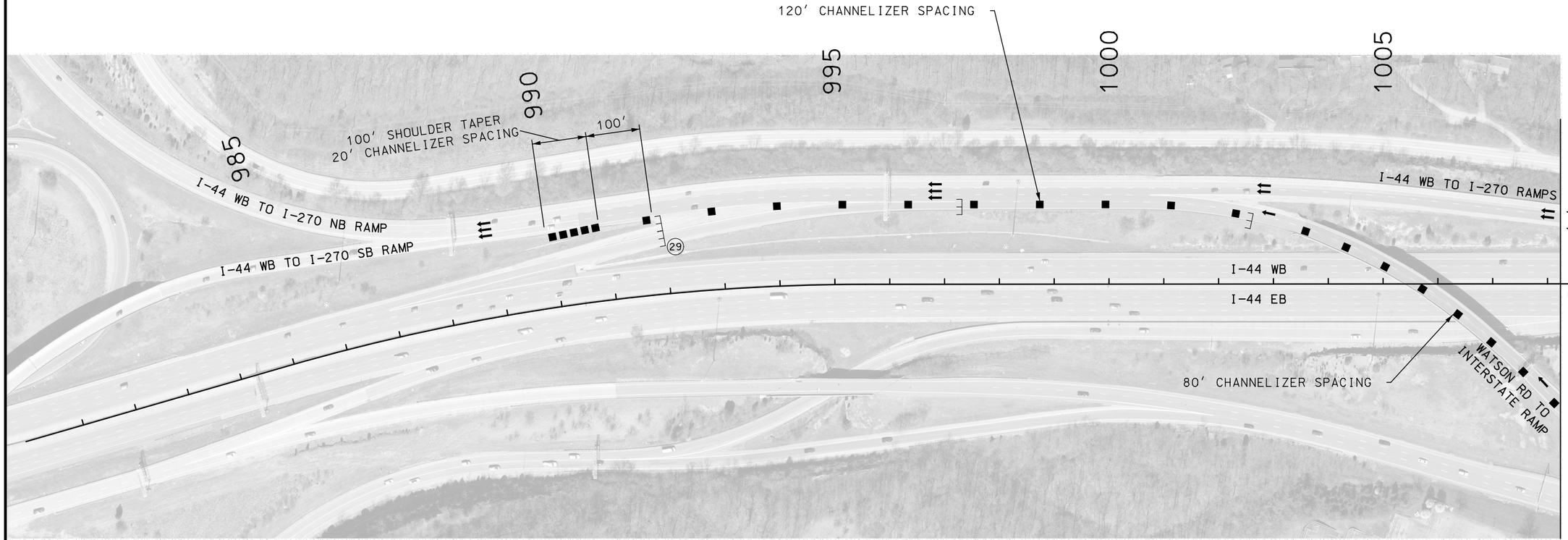
TRAFFIC CONTROL SHEET

LEGEND

- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE



REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.



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TRAFFIC CONTROL
I-44
SHEET 7 OF 11

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

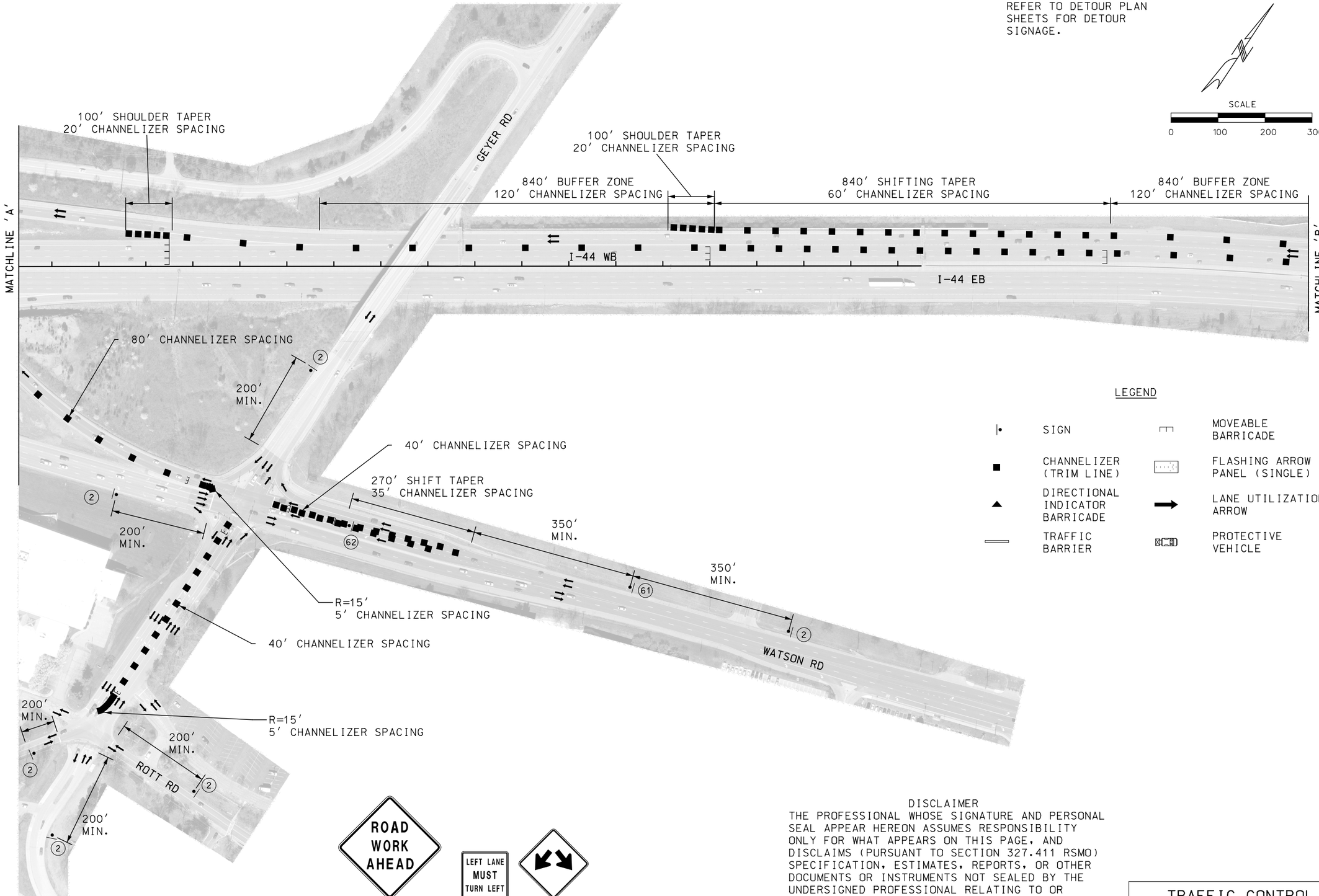
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET

REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.

SCALE
0 100 200 300



LEGEND

- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE

W020-1
2

R3-7L
61

W012-1
62

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TRAFFIC CONTROL
I-44
SHEET 8 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:27:03 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION

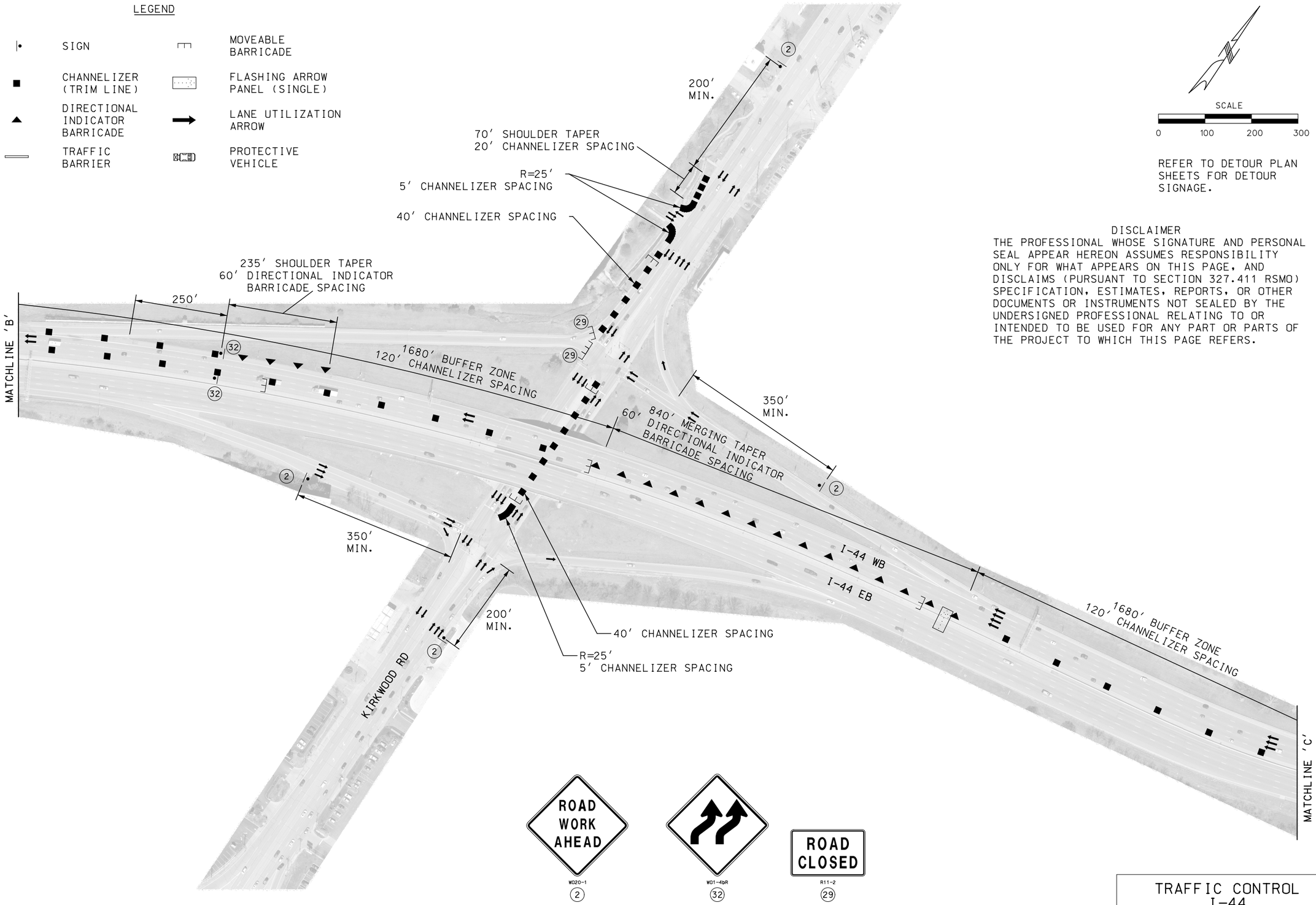
DATE

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

TRAFFIC CONTROL SHEET

LEGEND

SIGN	MOVEABLE BARRICADE
CHANNELIZER (TRIM LINE)	FLASHING ARROW PANEL (SINGLE)
DIRECTIONAL INDICATOR BARRICADE	LANE UTILIZATION ARROW
TRAFFIC BARRIER	PROTECTIVE VEHICLE



REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.

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TRAFFIC CONTROL
I-44
SHEET 9 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 12:32 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	12

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

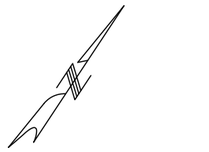
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET

LEGEND

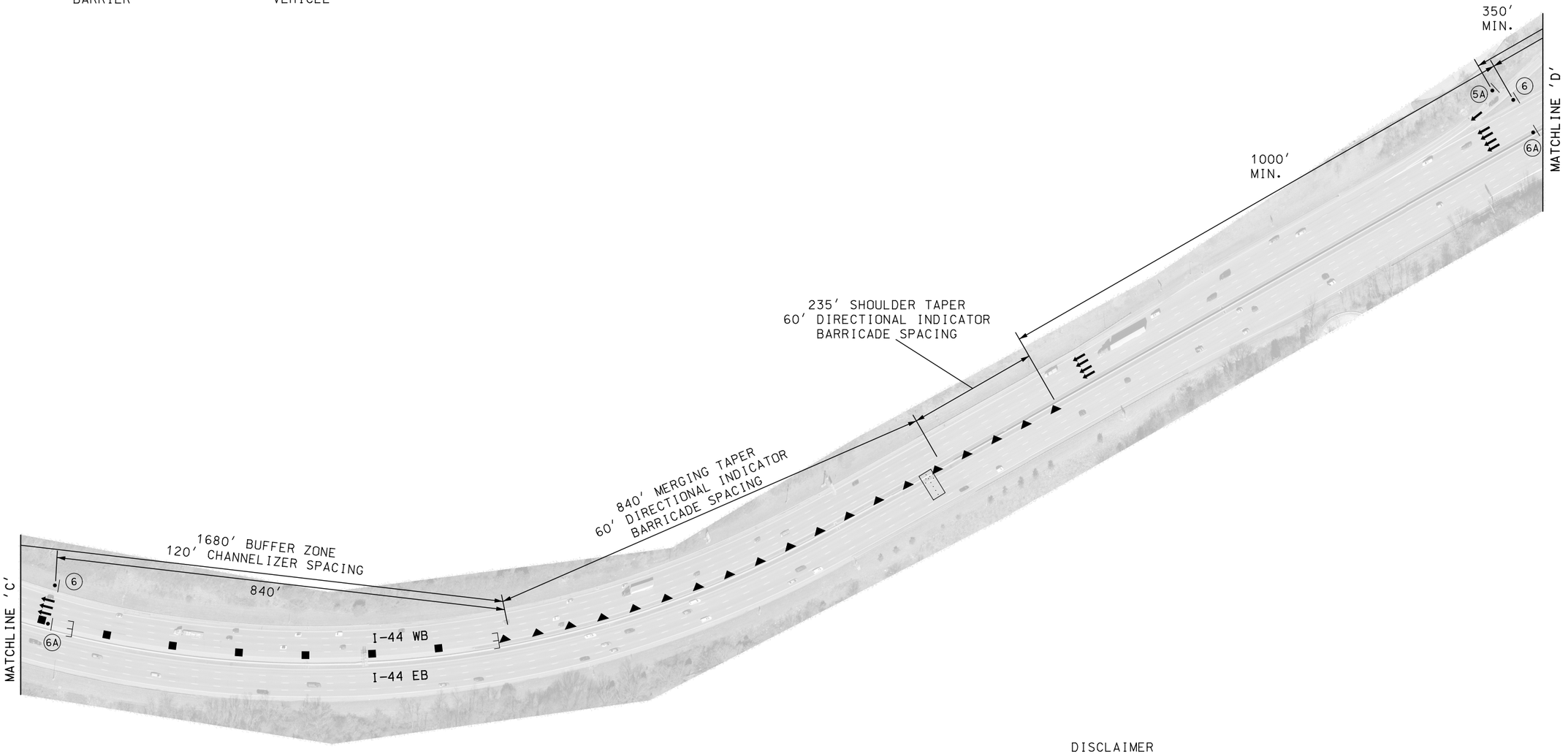
- SIGN
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- TRAFFIC BARRIER
- MOVEABLE BARRICADE
- FLASHING ARROW PANEL (SINGLE)
- LANE UTILIZATION ARROW
- PROTECTIVE VEHICLE

REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.



SCALE

0 100 200 300



DISCLAIMER

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TRAFFIC CONTROL
I-44
SHEET 10 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:28:41 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

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

LEGEND

	SIGN		MOVEABLE BARRICADE
■	CHANNELIZER (TRIM LINE)		FLASHING ARROW PANEL (SINGLE)
▲	DIRECTIONAL INDICATOR BARRICADE	➡	LANE UTILIZATION ARROW
	TRAFFIC BARRIER		PROTECTIVE VEHICLE

W020-1
(2)

W020-5a
(5A)

REFER TO DETOUR PLAN SHEETS FOR DETOUR SIGNAGE.

SCALE
0 100 200 300

DISCLAIMER
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TRAFFIC CONTROL
I-44
SHEET 11 OF 11

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:29:27 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO

DISTRICT	SHEET NO.
SL	14

COUNTY

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

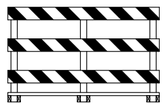
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

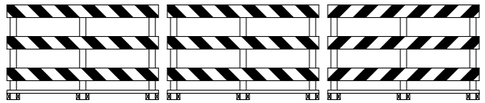
TRAFFIC CONTROL SHEET

GENERAL TRAFFIC CONTROL NOTES:

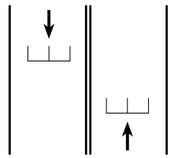
1. ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN AND PROPOSED DETOUR PLAN SHALL BE COVERED, NO DIRECT PAY.
2. ALL R11-2 AND R11-3a SIGNS SHALL BE MOUNTED ON TYPE III BARRICADE.



TYPE III MOVABLE BARRICADES
SOFT CLOSURE (STAGGERED)



TYPE III MOVABLE BARRICADES
FULL CLOSURE



SOFT CLOSURE PLAN VIEW

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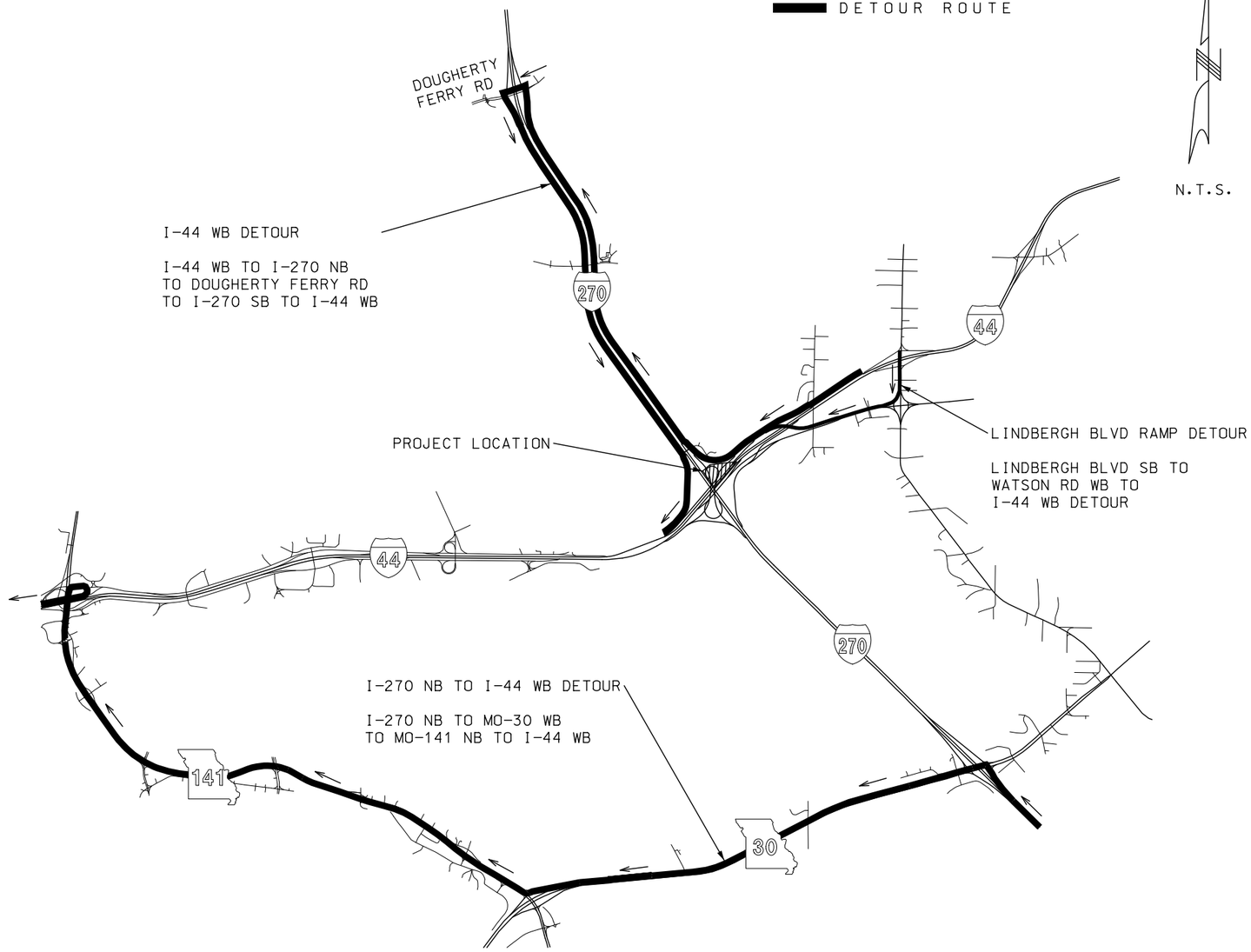
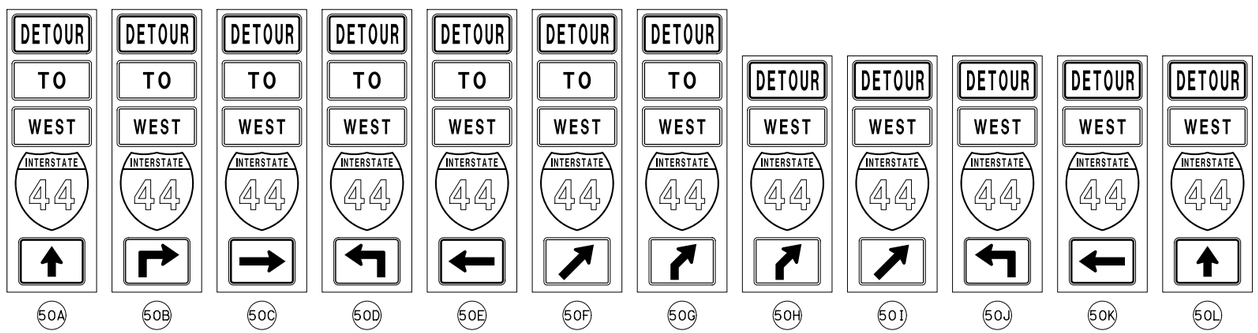
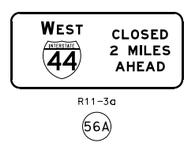
TRAFFIC CONTROL LEGEND

DETOUR ROUTE

N.T.S.







DETOUR PLAN OVERVIEW
SHEET 1 OF 3

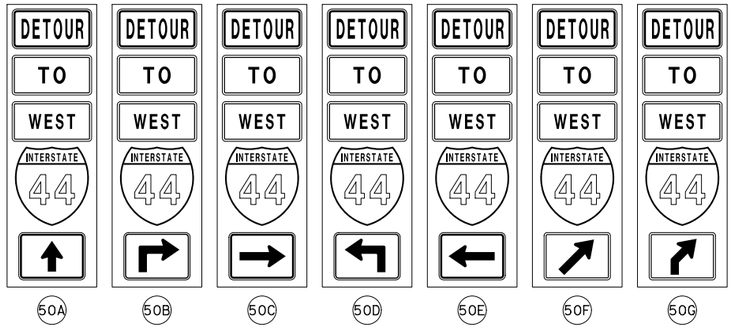
STATE OF MISSOURI
MICHAEL EDWARD BLATTNER NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 12:42:29 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED: 7/31/2025
ROUTE: 270
STATE: MO
DISTRICT: SL
SHEET NO.: 15
COUNTY: ST. LOUIS
JOB NO.: JSLM0112
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A10064

DESCRIPTION	DATE

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

DETOUR PLAN SHEET

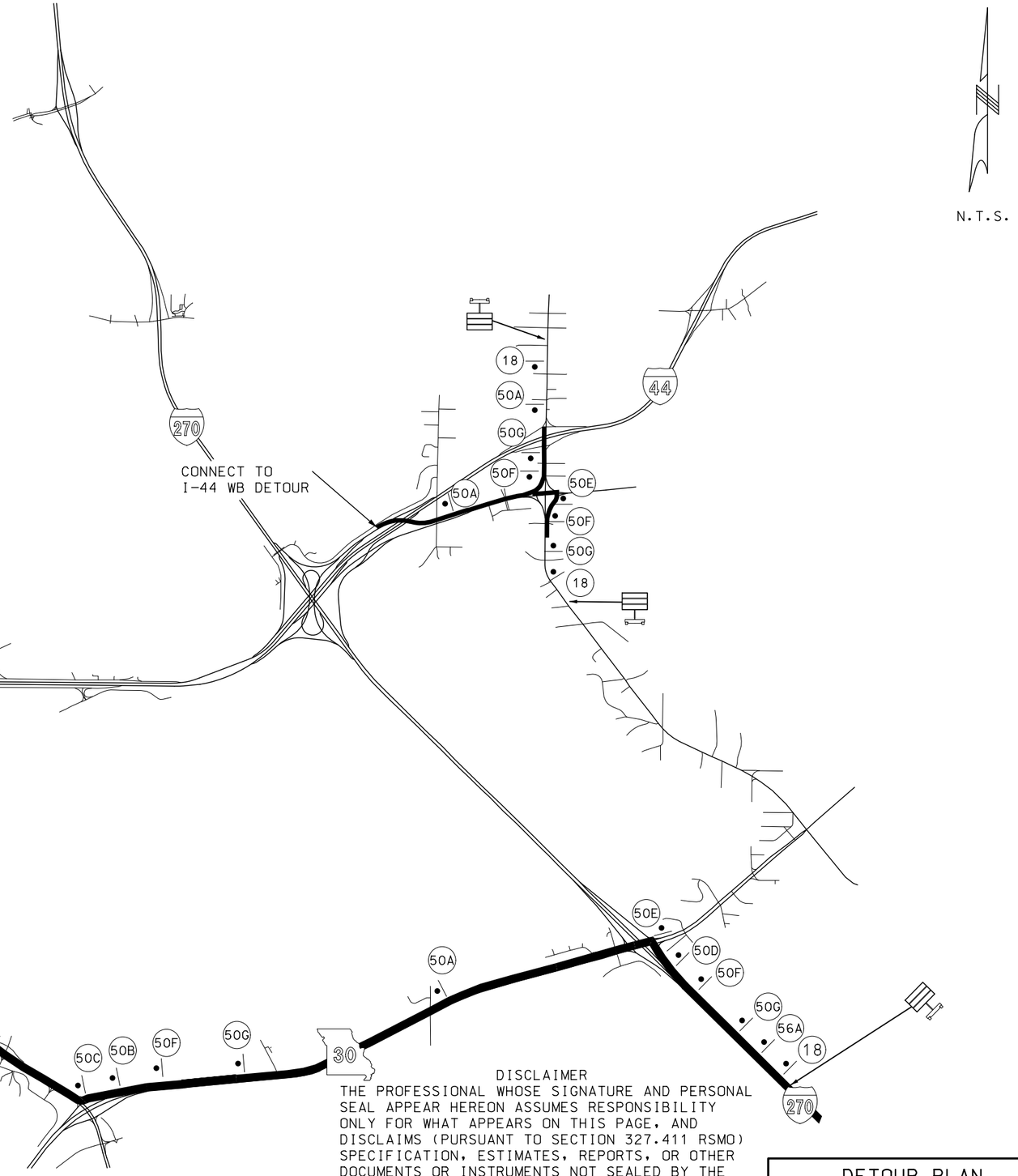


50A 50B 50C 50D 50E 50F 50G

W020-2
18

M04-8a
52

R11-3a
56A



N.T.S.

TRAFFIC CONTROL LEGEND

- DETOUR ROUTE
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC CONTROL SIGN
- CHANGEABLE MESSAGE SIGN

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DETOUR PLAN
I-270 & US-67
SHEET 2 OF 3

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:32:00 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

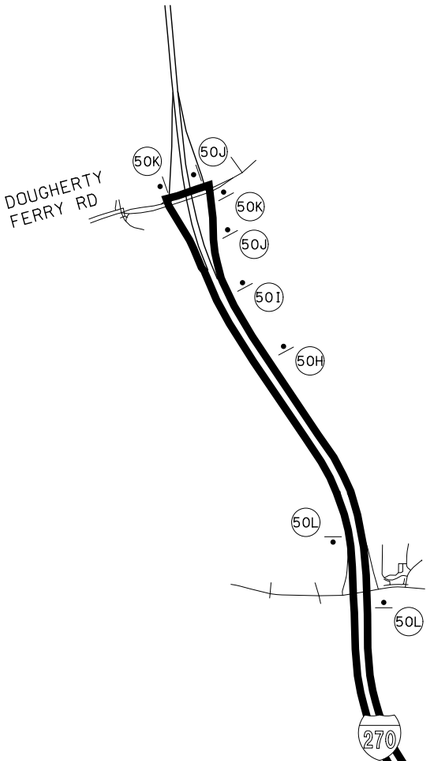
PROJECT NO.

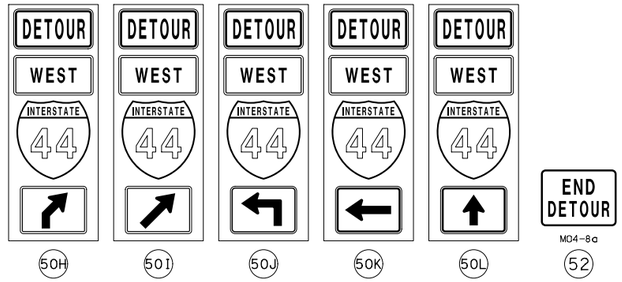
BRIDGE NO.
A10064

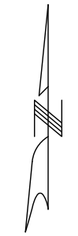
DESCRIPTION	DATE

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

DETOUR PLAN SHEET







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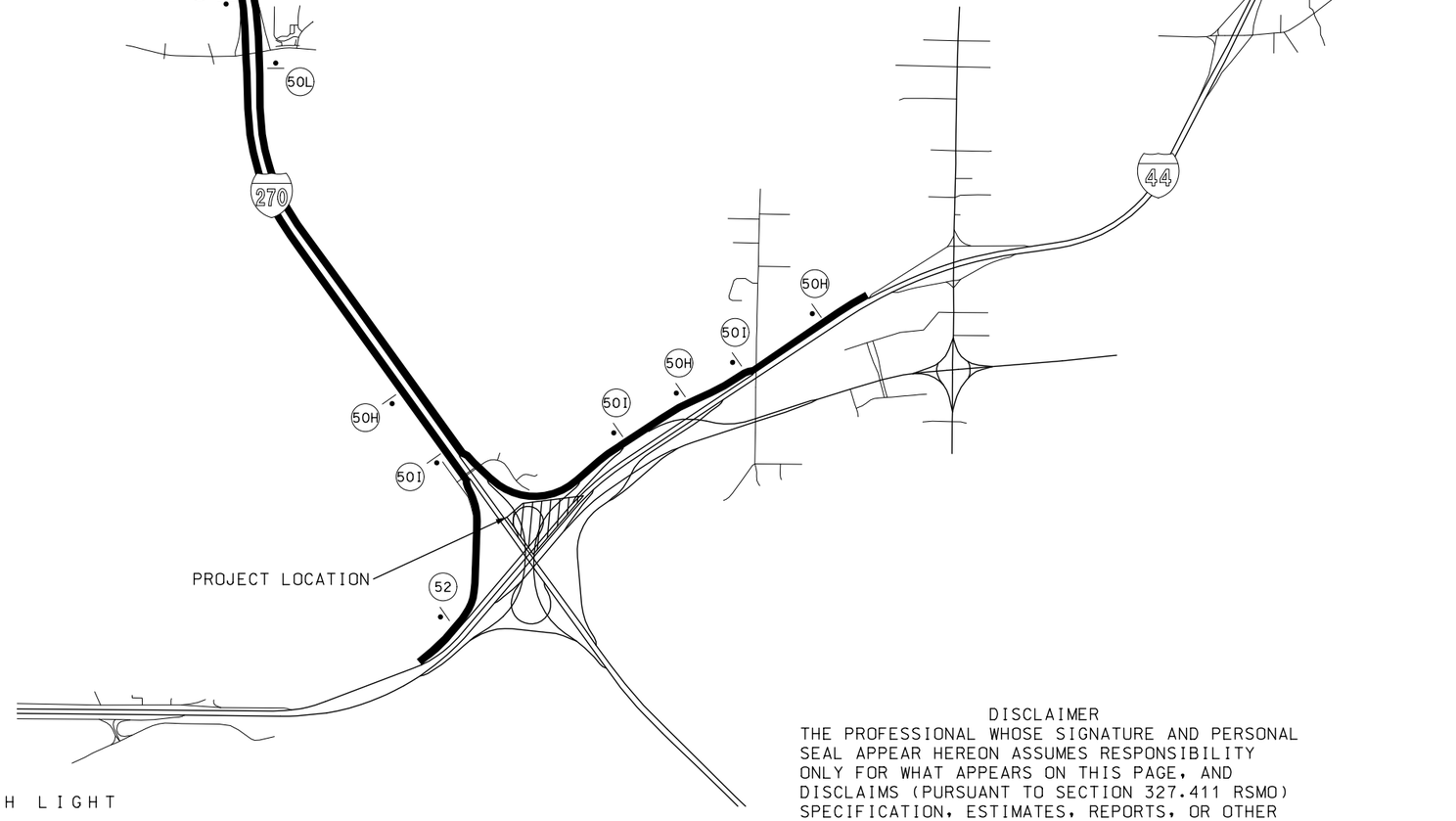

TRAFFIC CONTROL LEGEND

- DETOUR ROUTE
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC CONTROL SIGN
- CHANGEABLE MESSAGE SIGN

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DETOUR PLAN
I-44 WB
SHEET 3 OF 3

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER NUMBER PE-2008019525
PROFESSIONAL ENGINEER

07/31/2025 3:32:34 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DETOUR PLAN SHEET

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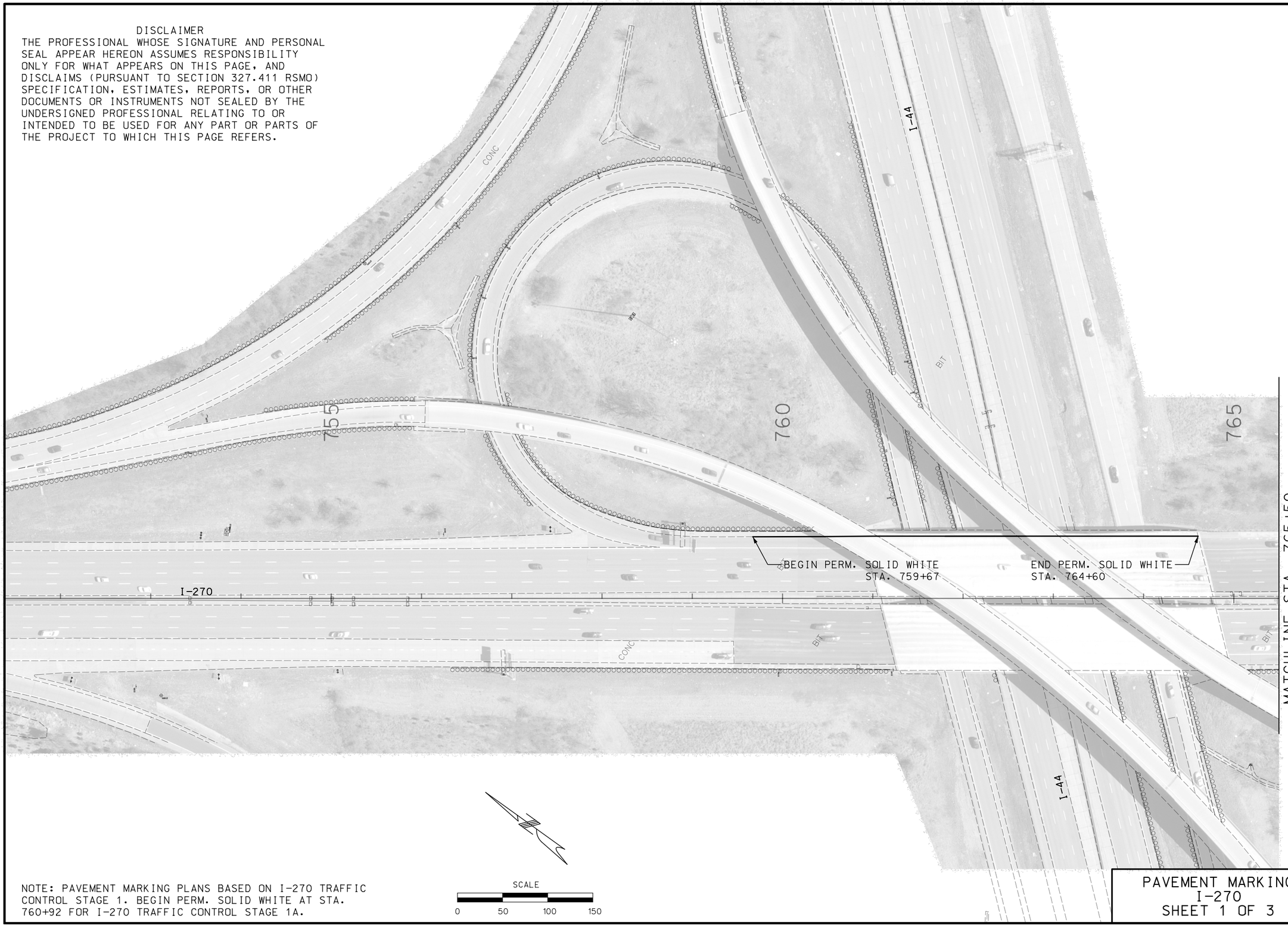

NOTE: PAVEMENT MARKING PLANS BASED ON I-270 TRAFFIC CONTROL STAGE 1. BEGIN PERM. SOLID WHITE AT STA. 760+92 FOR I-270 TRAFFIC CONTROL STAGE 1A.

SCALE
0 50 100 150

PAVEMENT MARKING
I-270
SHEET 1 OF 3

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:33:07 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DATE	DESCRIPTION

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

PAVEMENT MARKING SHEET

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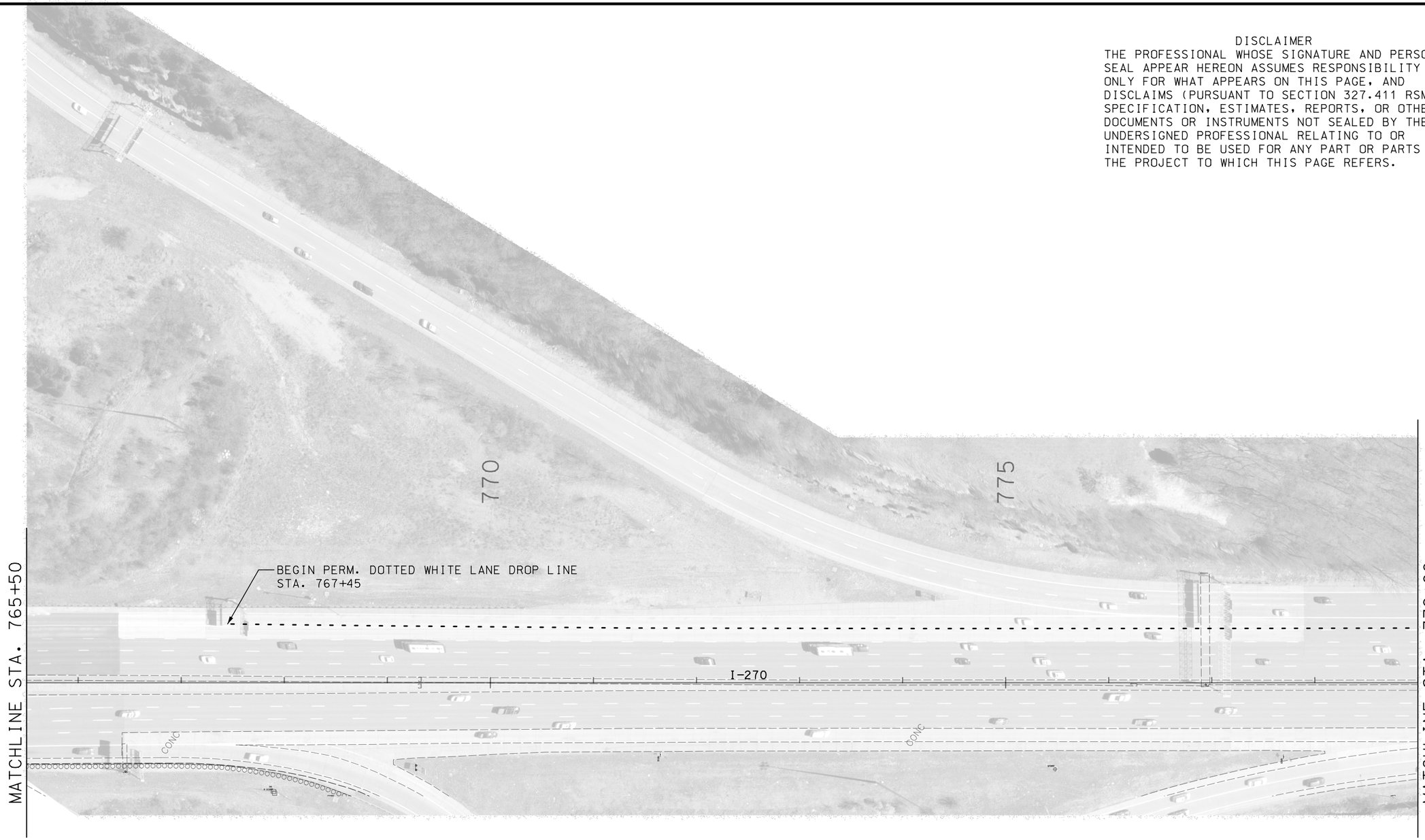

SCALE
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PAVEMENT MARKING
I-270
SHEET 2 OF 3

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 3:33:49 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO

DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

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

PAVEMENT MARKING SHEET

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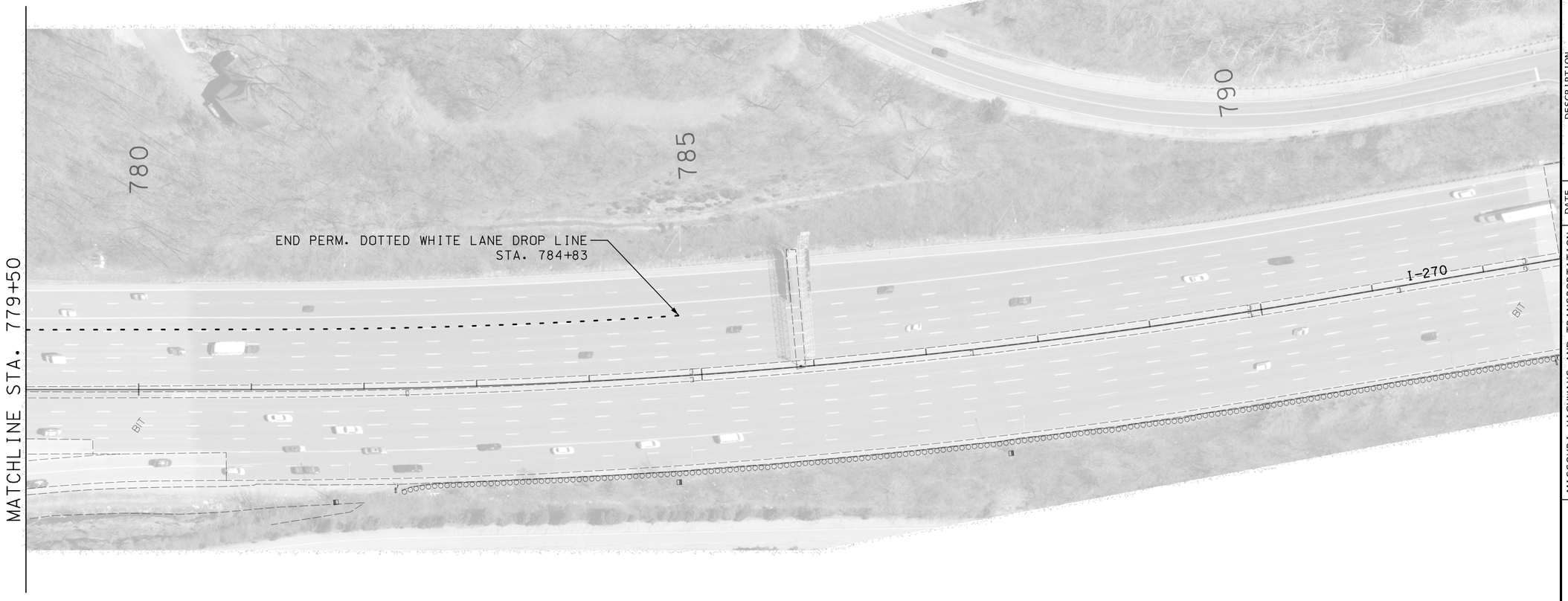

SCALE

0 50 100 150

PAVEMENT MARKING
I-270
SHEET 3 OF 3

STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER

07/31/2025 3:34:31 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO

DISTRICT	SHEET NO.
SL	20

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING SHEET

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE / SIGN DESCRIPTION, SIZES & NUMBER OF EACH

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF ✳ ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	LINE NO. 0140 STRUCTURAL FLUORESCENT STF ✳ ITEM NO. 9035071A
W12-2a	22	1	84 X 24				14.0
TOTAL							14.0

✳ ORANGE, YELLOW & YELLOW/GREEN

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STATE OF MISSOURI
MICHAEL EDWARD BLATTNER NUMBER PE-2008019525
PROFESSIONAL ENGINEER
07/31/2025 4:27:33 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED: 7/31/2025
ROUTE: 270 | STATE: MO
DISTRICT: SL | SHEET NO.: 21
COUNTY: ST. LOUIS
JOB NO.: JSLM0112
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A10064

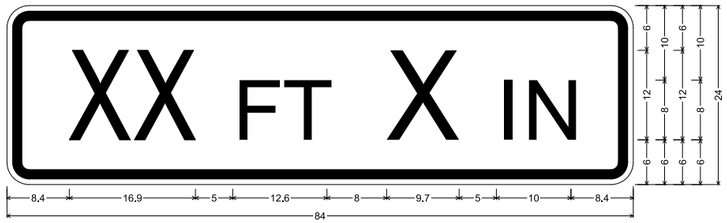
DESCRIPTION | DATE

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

SIGNING SHEET

D-30

SIGNING
SHEET 1 OF 2



W12-2a_84x24:
3.0" Radius, 1.3" Border, 0.8" Indent, Black on, Yellow;
"XX", E 2K; "FT", E 2K; "X", E 2K; "IN", E 2K;

SIGN NO.	W12-2a
STATION	762+50
ROADWAY	I-270

NOTE

CONTRACTOR TO OBTAIN MINIMUM VERTICAL CLEARANCE MEASUREMENT PER JSP Q. THE VERTICAL CLEARANCE MEASUREMENT TO BE PLACED ON THE SIGN SHALL BE 2" LOWER THAN THE MEASUREMENT OBTAINED PER JSP Q.

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STATE OF MISSOURI
MICHAEL EDWARD BLATTNER
NUMBER PE-2008019525
PROFESSIONAL ENGINEER

07/31/2025 3:37:00 PM
MICHAEL EDWARD BLATTNER - CIVIL
MO-PE-2008019525

DATE PREPARED
7/31/2025

ROUTE	STATE
270	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10064

DESCRIPTION	DATE

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

SIGNING SHEET

SIGNING
SHEET 2 OF 2

SEC/SUR 14 TWP 44N RGE 5E

U.I.P. AND REPAIR COLLISION DAMAGED (40'-57'-75'-75'-71'-50') PRESTRESSED CONCRETE I-GIRDER SPANS

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
Vehicular = HS20 Modified (New & Existing Construction)
Modified 24,000 Tandem Axle (New & Existing Construction)
Future Wearing Surface = 15 lb/sf (New Construction)
Superstructure: Simply Supported, Non-Composite for dead load.
Continuous Composite for live load.

Design Unit Stresses:

Class B-1 Concrete (Type B Barrier)	f'c = 4,000 psi
Class B-2 Concrete (Superstructure except Prestressed Girder and Type B Barrier)	f'c = 4,000 psi
Reinforcing Steel (Grade 60)	fy = 60,000 psi

For prestressed girder stresses, see Sheet No. 3.

Neoprene Pads:
Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

Joint Filler:
All joint filler shall be in accordance with Section 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

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

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710.

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

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

Contractor shall verify all dimensions in field before finalizing the shop drawings.

All dimensions are based on original design plans and are taken horizontally.

Construction Notes:

The existing bridge and roadway plus appurtenances shall be inspected with the Owner's Representative, the Contractor's Representative, and any other interested parties' Representatives as approved by the Owner prior to starting work. Any deficiencies shall be noted and photographed as necessary and agreed upon prior to starting work. A follow-up inspection shall be performed with the same parties at the conclusion of the project.

The Contractor shall submit a work plan to the Engineer detailing all major operations of construction for approval prior to starting work. The work plan shall include schedule, sequence of construction, major equipment, methods of removal, methods of protecting existing structures, methods of protecting traffic below and proposed materials (mechanical bar splices, etc.).

The Contractor shall submit shop drawings for the replacement girder with new assigned mark numbers.

Any structure and roadway items to be preserved shall be protected from damage during the removal and/or storage process. Any remaining bridge structure, roadway or appurtenances damaged by the Contractor's operations shall be replaced by the Contractor as directed by the Engineer at no additional cost to the Owner.

All reinforcing steel indicated to be preserved that is damaged during the removal operation shall be repaired or replaced as required by the Engineer including coating cutoffs, repairing damaged concrete overlay, and providing additional mechanical bar splices and reinforcing steel as needed.

The removal/construction joint shall be blasted free of any concrete dust, dirt, or debris using high pressure sprayer(s) (not less than 1,200 psi) and maintained in a clean condition prior to placing the deck/diaphragm/barrier concrete. Any surface becoming contaminated shall be re-blasted as directed by the Engineer.

Care shall be taken during removal such that reinforcing steel to be preserved does not become unbonded. Any bars that become unbonded shall be carefully exposed by removing the concrete to provide a minimum of 1 inch clearance around the bar or as directed by the Engineer.

All mechanical bar splices shall be epoxy coated. The type and size of mechanical bar splices shall be as approved by the Engineer. Lengths of new reinforcing steel shown spliced to existing reinforcing steel are approximate and shall be adjusted to accommodate the type of mechanical bar splice used.

The face of concrete removal lines in the bridge deck shall be coated with an approved epoxy bonding agent prior to placing the bridge deck concrete. The epoxy bonding agent shall be applied in accordance with the Manufacturer's written directions. The epoxy bonding agent shall fully coat the surfaces to be bonded, remain tacky prior to placing concrete, and not allowed to pond or puddle on horizontal surfaces. The cost of the epoxy bonding agent shall be considered completely covered by the contract unit price for Partial Replacement of Slab on Concrete I-Girder.

Any deck surface construction joints found to have visually opened up at 28 days following the completion of the cure shall be epoxy injected as directed by the Engineer. The cost of this work shall be considered completely covered by the contract unit price for Partial Replacement of Slab on Concrete I-Girder.

All removals are the property of the repair/replacement Contractor and disposed of as approved by the Engineer. The job site shall be left in a condition similar to that documented in the pre-construction walk-through and as approved by the Engineer.

Estimated Quantities

	Item		Total
	Partial Removal of Existing Bridge Deck	sq. foot	508
*	Type B Barrier	linear foot	87
	Replacement of Type 2 (32 in.) Prestressed Concrete I-Girder	linear foot	74
	Partial Replacement of Slab on Concrete I-Girder	sq. yard	56
	Mechanical Bar Splice	each	160
	Conduit System on Structure	lump sum	1
	Fabricated Sign Support Brackets	lump sum	1
	Slab Drain	each	2
	Laminated Neoprene Bearing Pad (Tapered)	each	2

* Type B Barrier shall be cast-in-place option or slip-form option.

All reinforcement in the intermediate bent concrete diaphragms is included in the Estimated Quantities for Partial Replacement of Slab on Concrete I-Girder.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Partial Replacement of Slab on Concrete I-Girder.

All mechanical bar splices in the intermediate bent concrete diaphragms and slab are included together in the Estimated Quantities.

All work required to remove the barrier, bridge deck, steel intermediate diaphragm, bridge lighting conduit, conduit system, slab drains, clearance sign brackets and intermediate concrete diaphragms shall be completely covered by the contract unit price for Partial Removal of Existing Bridge Deck.

All work required for the removal and replacement of the Girder shall be completely covered by the contract unit price for Replacement of Type 2 (32 in.) Prestressed Concrete I-Girder.

Estimated Quantities for Partial Replacement of Slab on Concrete I-Girder

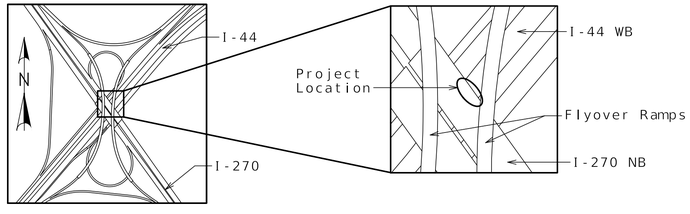
Item		Total
Class B-2 Concrete	cu. yard	18
Reinforcing Steel (Epoxy Coated)	pound	5,640

The table of Estimated Quantities for Partial Replacement of Slab on Concrete I-Girder represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard as shown on the Demolition Plan. Payment for conventional forms, all concrete and epoxy coated reinforcing steel except MBS will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for adjustment in the contract unit price.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness Class SC 4 and a finish Type I, II, or III.

Type B Barrier quantities are not included in Estimated Quantities for Partial Replacement of Slab on Concrete I-Girder.

Bridge deck surface may be finished with a vibratory screed.



LOCATION SKETCH

REPAIRS TO BRIDGE:
ROUTE I-270 NB OVER ROUTE I-44 WB

ROUTE I-270 NB FROM ROUTE 100 TO ROUTE 30
AT INTERCHANGE OF ROUTE I-270 & ROUTE I-44
BEGINNING STATION 761+14.51± (MATCH EXISTING)

Detailed July 2025
Checked July 2025

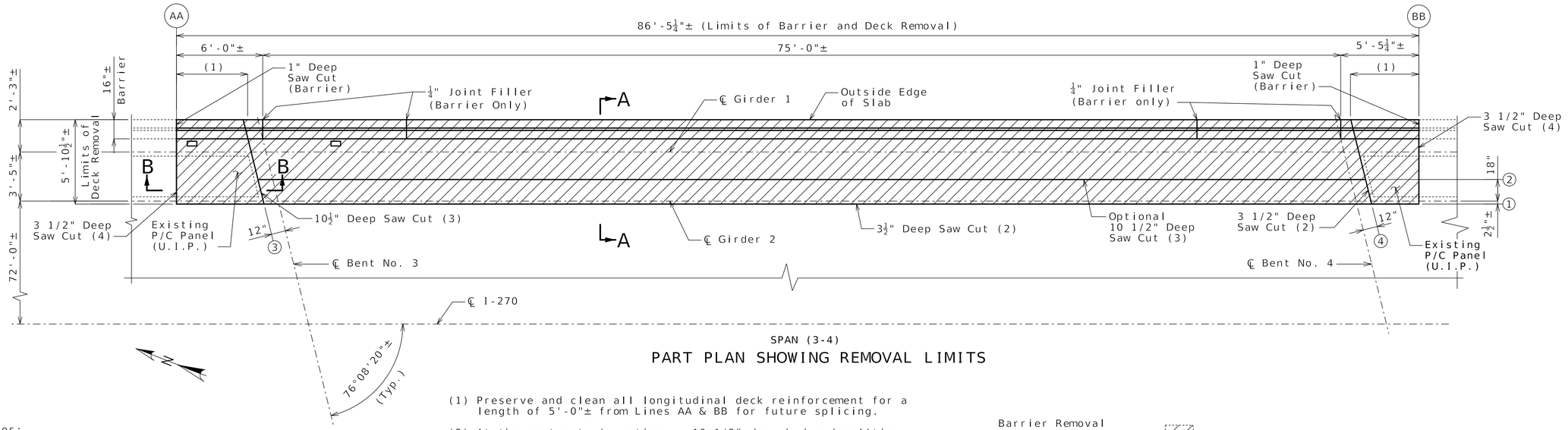
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
DAVID JAMES HAGEMEYER
NUMBER PE-2007002788
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/31/2025
ROUTE I-270 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. JSLM0112
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A10066

DESCRIPTION | DATE

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



SPAN (3-4)

PART PLAN SHOWING REMOVAL LIMITS

Notes:

The existing slab for Bridge A10065 to be replaced was constructed as composite.

Any damage sustained to the remaining structure as a result of the contractor's operations shall be repaired or the material replaced as approved by the engineer at the contractor's expense.

(1) Preserve and clean all longitudinal deck reinforcement for a length of 5'-0"± from Lines AA & BB for future splicing.

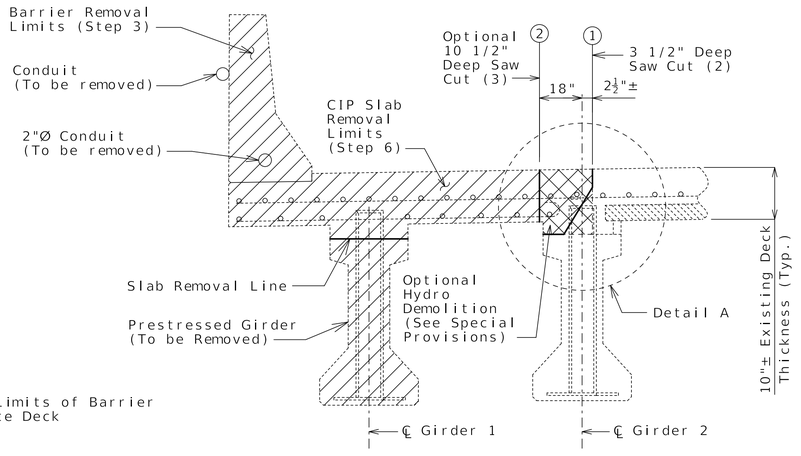
(2) At the contractor's option, a 10 1/2" deep hydro demolition cut may be used in lieu of the 3 1/2" deep saw cut (See special provisions).

(3) At the contractor's option, a hydro demolition cut of the same depth may be used in lieu of the saw cut (See special provisions).

(4) At the contractor's option, hydro demolition may be used to remove concrete to the top of the existing precast panel.

SUGGESTED SEQUENCE OF CONSTRUCTION

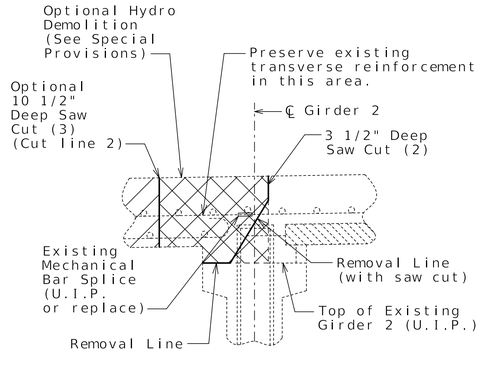
1. Remove clearance sign and brackets and all utilities within deck removal limits, including bridge lighting near Bent No. 4 and utility attached to outside of barrier.
2. Mark layout lines on bridge deck as follows:
   a. Mark layout lines representing ℄ Bents No. 3 & 4. Mark transverse saw cut lines AA and BB at limits of removal near Bents No. 3 & 4. See Part Plan Showing Removal Limits.
   b. Mark longitudinal saw cut lines 1, 2, 3 & 4 as shown in Part Plan Showing Removal Limits.
3. Saw 1-inch deep cut on each face of barrier at AA & BB. Carefully remove barrier concrete to preserve longitudinal reinforcing steel, and leaving an adequate length of 2"Ø conduit within the barrier for future splicing.
4. 3 1/2" deep saw cuts at transverse lines AA & BB (4).
5. 3 1/2" deep saw cut in bridge deck at Line 1 per Part Plan Showing Removal Limits (2). If hydro demolition is used, skip to Step 10, then return to Step 6 and proceed through the remaining steps.
6. Remove cast-in-place bridge deck overhang from outside edge of slab to longitudinal saw cut line 1 (line 2 if hydro demolition was used). This will include the removal of slab drains. Care shall be taken to avoid damage to the existing precast panels near AA & BB during removal operations.
7. Carefully remove concrete diaphragms at Bents No. 3 & 4 to limits shown in concrete diaphragm details on Sheet No. 5 (Elevation, Sections A-A & B-B), using handheld chipping hammers as specified in Sec 704.4.1.2. Care shall be taken to preserve the longitudinal deck reinforcing steel near Bents No. 3 & 4 for future splicing. When removing concrete between the ends of girders at Bents No. 3 & 4, care shall be taken to avoid damage to the prestressing strands protruding from the ends of Girder 1, Span (2-3) and Girder 1, Span (4-5).
8. Remove steel intermediate diaphragm and store for future re-installation.
9. Remove Girder 1, Span (3-4). Remove and dispose of existing bearing pads and joint filler at Bents 3 & 4.
10. Carefully remove concrete deck at Girder 2 to limits shown in Section A-A using lightweight handheld chipping hammers. Partial exposure of vertical reinforcing steel from Girder 2 is required. Care shall be taken to avoid damage to any vertical reinforcement protruding from the top of Girder 2. Repair epoxy coating to transverse bars and epoxy coat the ends of existing bars that have been cut. The top transverse deck reinforcing steel at Girder 2 shall be preserved for installation of mechanical bar splices. If hydro demolition is used, remove concrete between cut lines 1 & 2, then return to Step 6.
11. Install bearing pads and joint filler at Bents No. 3 & 4.
12. Set replacement Girder 1 and reinstall steel intermediate diaphragm.
13. Form deck and concrete diaphragms. Install mechanical bar splices, deck reinforcing steel, diaphragm reinforcing steel, and slab drains. Install barrier reinforcing steel embedded in deck.
14. Place diaphragm and bridge deck concrete. Cure in accordance with Sec 703.3.6.
15. Install remaining barrier reinforcing steel & 2"Ø conduit in barrier. Place barrier concrete.
16. Install conduit on exterior of barrier and bridge lighting junction box on outside face of barrier.
17. Reinstall all utilities.
18. Install penetrating crack sealer & concrete crack filler per Sec 1053.
19. Install sign brackets and sign on bottom of slab overhang.



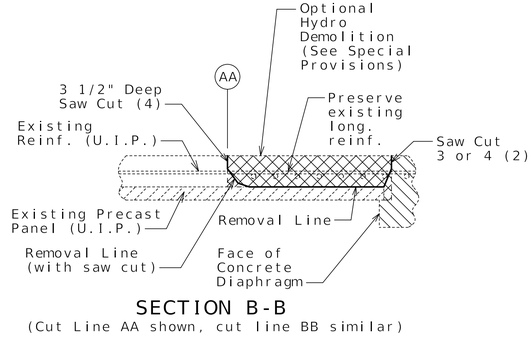
Removal Limits of Barrier & Concrete Deck

Hydro Demolition may be used in these areas (See special provisions)

SECTION A-A



DETAIL A



SECTION B-B
(Cut Line AA shown, cut line BB similar)

DEMOLITION PLAN

Detailed July 2025
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Note: This drawing is not to scale. Follow dimensions.

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DAVID JAMES HAGEMEYER
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PROFESSIONAL ENGINEER

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7/31/2025

ROUTE	STATE
I-270	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

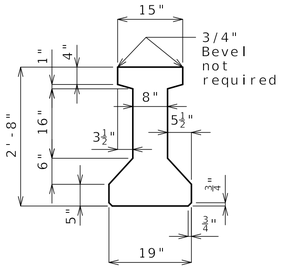
CONTRACT ID.

PROJECT NO.

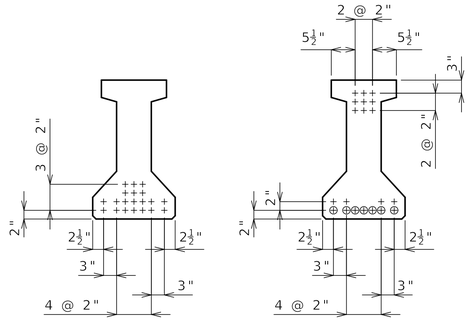
BRIDGE NO.
A10066

DATE	DESCRIPTION

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



DIMENSIONS

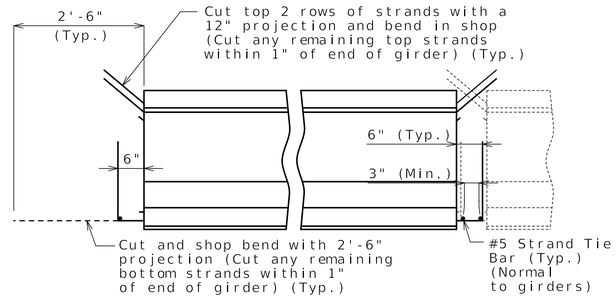


℄ GIRDER END OF GIRDER

STRAND ARRANGEMENT

+ Indicates prestressing strand.

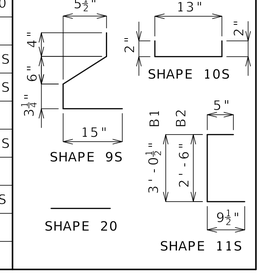
○ Indicates cut & shop bend with 2'-6" projection.



INTERMEDIATE BENT

STRANDS AT GIRDER ENDS

BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAM
4	6 A1	38'-9"	20	
166	5 B1	4'-1"	11S	
16	6 B2	3'-5"	11S	
91	4 C1	15"	10S	
182	4 D1	2'-5"	9S	



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

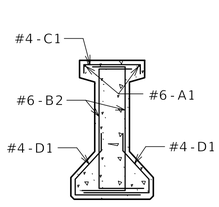
Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All reinforcement shall be Grade 60.

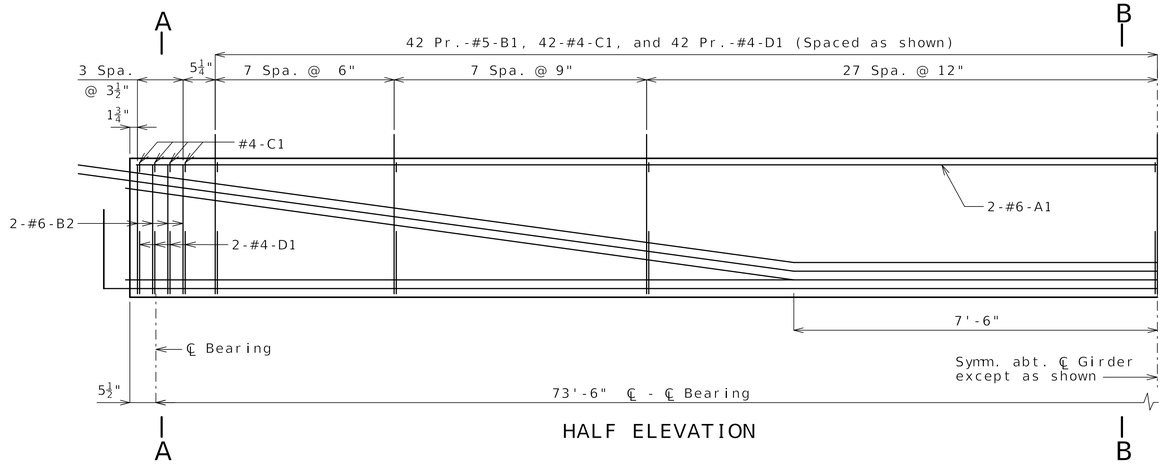
The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

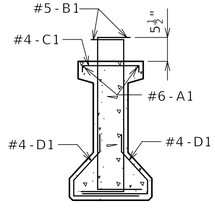


SECTION A-A

Strands not shown for clarity.

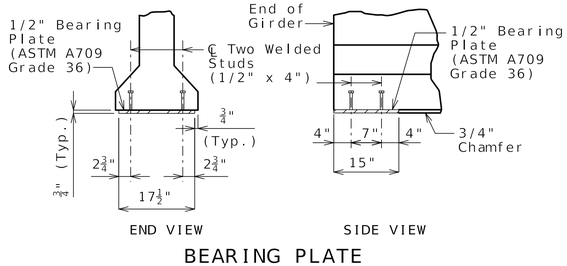


HALF ELEVATION

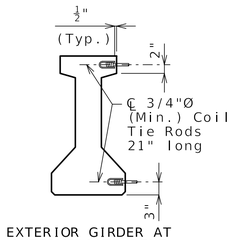


SECTION B-B

Strands not shown for clarity.

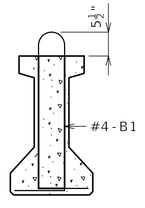


BEARING PLATE



EXTERIOR GIRDER AT INTERMEDIATE BENT

COIL TIES



B1 BAR PERMISSIBLE ALTERNATE SHAPE

General Notes:

Concrete for prestressed girders shall be Class A-1 with f'c = 6,000 psi and f'ci = 5,100 psi.

Use 20 strands, 1/2"Ø Grade 270, with an initial prestress force of 620 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

For Girder Camber Diagram, see Sheet No. 8.

The 1 1/2"Ø holes shall be cast in the web for steel intermediate diaphragms. Drilling is not allowed. For location of holes and details of steel intermediate diaphragms, see Sheet No. 4.

For location of coil inserts at slab drains, see Sheet No. 6.

For location of coil ties at concrete bent diaphragms, see Sheet No. 3.

STATE OF MISSOURI
DAVID JAMES HAGEMEYER
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PROFESSIONAL ENGINEER
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ROUTE I-270 | STATE MO

DISTRICT BR | SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. JSLM0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10066

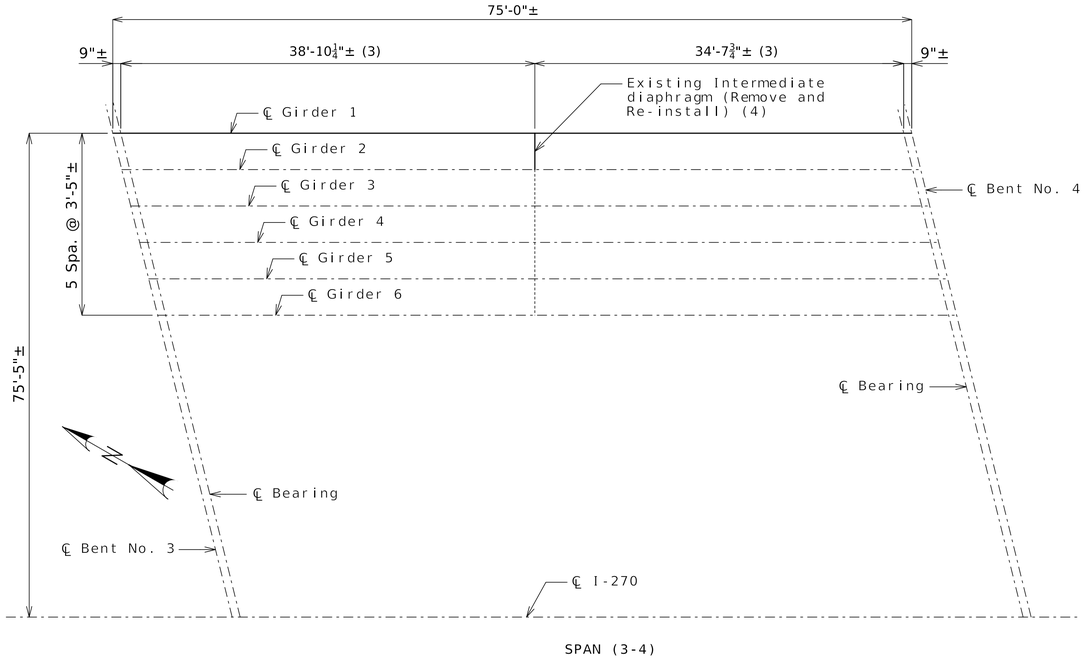
DESCRIPTION	DATE

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

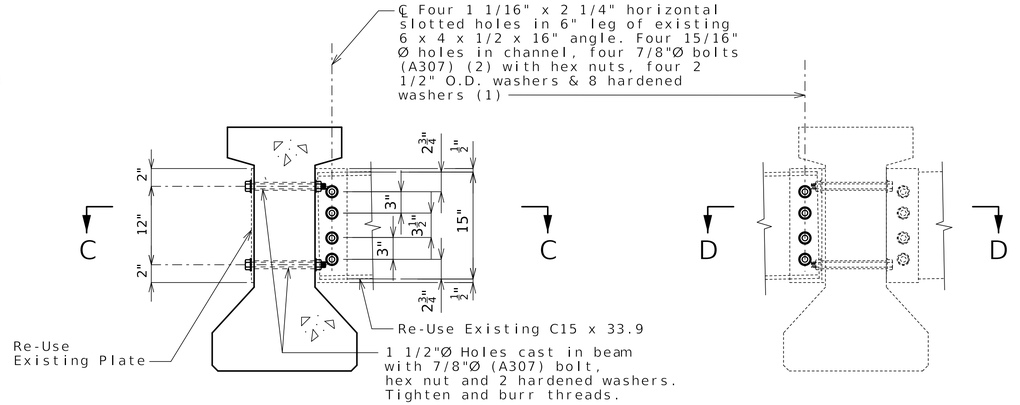
Detailed July 2025
Checked July 2025

PRESTRESSED I-GIRDER - SPAN (3-4)

Note: This drawing is not to scale. Follow dimensions.

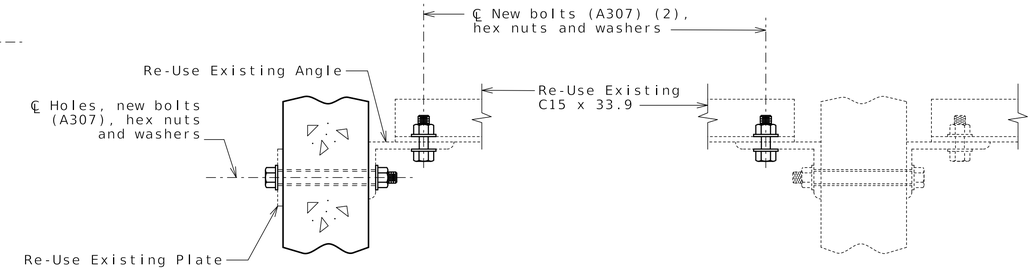


PART FRAMING PLAN



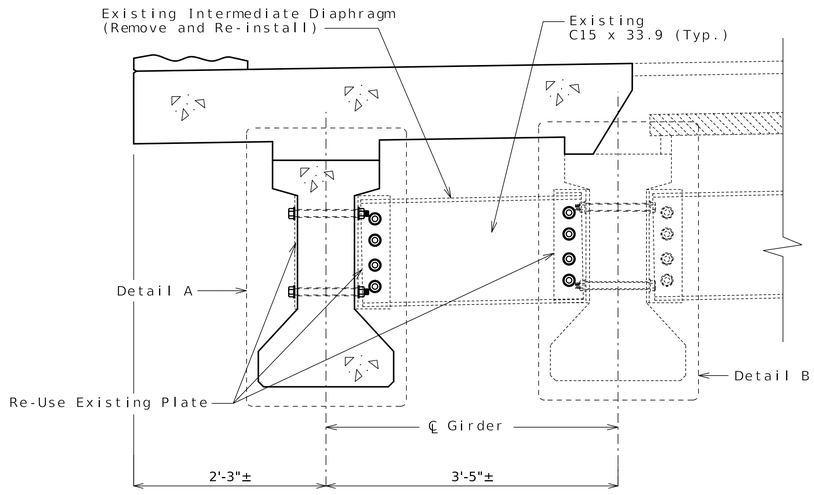
DETAIL A

DETAIL B



SECTION C-C

SECTION D-D



PART SECTION SHOWING INTERMEDIATE DIAPHRAGMS

STEEL DIAPHRAGM NOTES:

(1) In lieu of 2 1/2" outside diameter washers, contractor may substitute a 3/16" (Min. thickness) plate with four 15/16"Ø holes and one hardened washer per bolt.

(2) Bolts shall be tightened to provide a tension of one-half that specified in Sec 712 for high strength bolt installation. A325 bolts may be substituted for and installed in accordance with the requirements for the specified A307 bolts.

All diaphragm materials including bolts, nuts, and washers shall be galvanized.

Fabricated structural steel shall be ASTM A709 Grade 36, except as noted.

Shop drawings will not be required for steel intermediate diaphragms and angle connections.

(3) Contractor shall field measure location of existing diaphragm prior to fabricating new girder.

(4) Contractor and Engineer shall inspect diaphragm for suitability of re-use. Contractor shall provide new connection hardware (nuts, bolts, and washers) for connection at Girders 1 & 2 as shown.

Payment for new hardware, removal and reinstallation shall be considered completely covered by the contract unit price for Replacement of Type 2 (32 in.) Prestressed Concrete I-Girder.

FRAMING PLAN AND STEEL INTERMEDIATE DIAPHRAGM

Detailed July 2025
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I-270	MO
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BR	4

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

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JEFFERSON CITY, MO 65102
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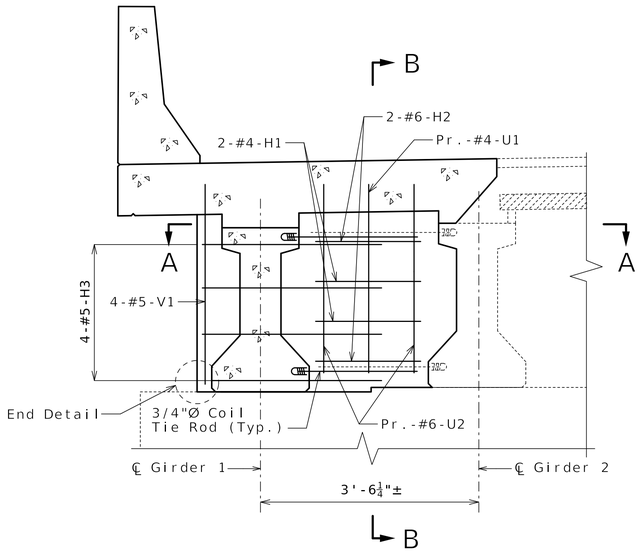
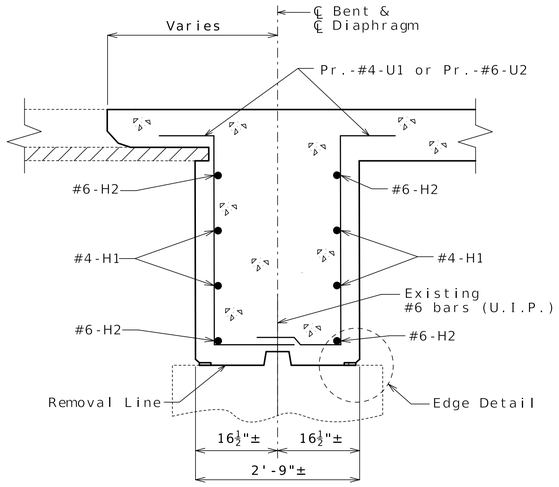
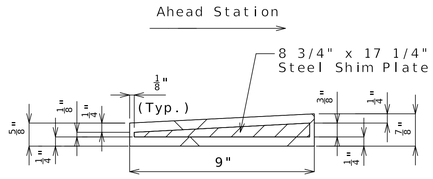


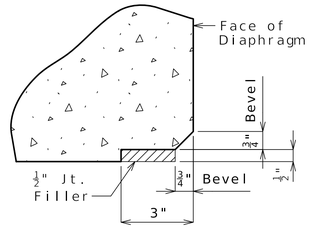
ELEVATION



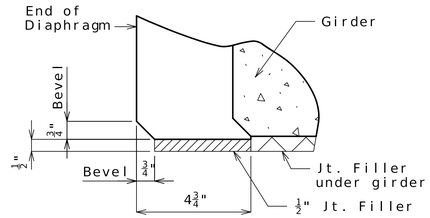
SECTION B-B



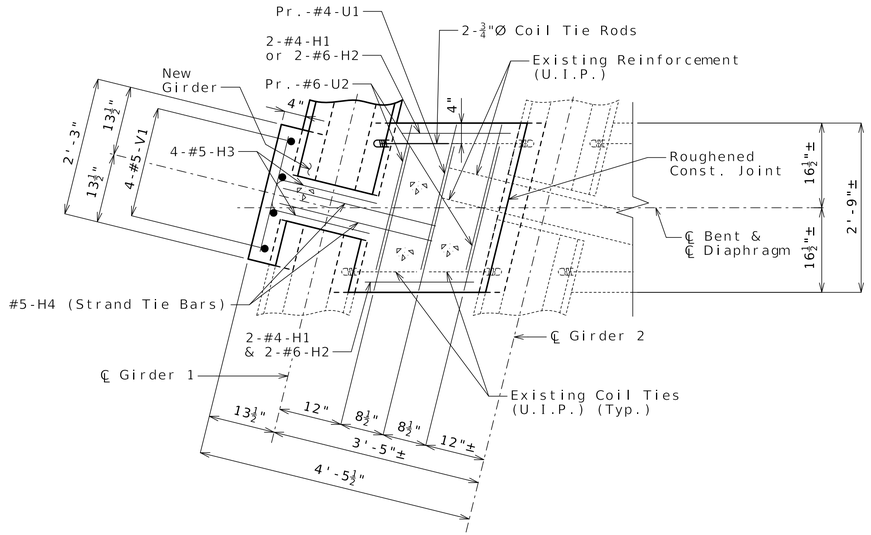
TYPICAL SECTION THRU
LAMINATED NEOPRENE
BEARING PAD (TAPERED)



EDGE DETAIL

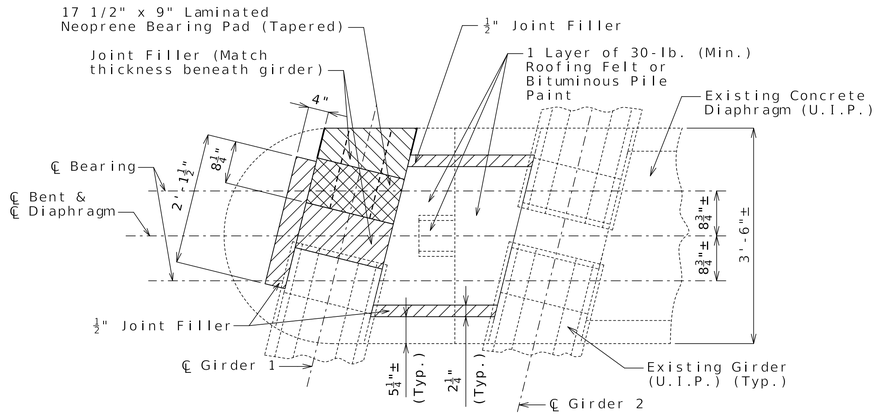


END DETAIL



SECTION A-A

(Bent No. 3 Shown, Bent No. 4 Similar)
(Key & dowels not shown for clarity)



PART PLAN OF BENT CAP

(Bent No. 3 Shown, Bent No. 4 Similar)

Notes:

Diaphragms at intermediate bents shall be built vertical.

At the contractor's option, hydro demolition may be used to remove the existing concrete diaphragm to the top of existing beam cap (See special provisions).

CONCRETE DIAPHRAGM AT BENTS NO. 3 & 4

Detailed July 2025
Checked July 2025

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ROUTE	STATE
I-270	MO
DISTRICT	SHEET NO.
BR	5

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

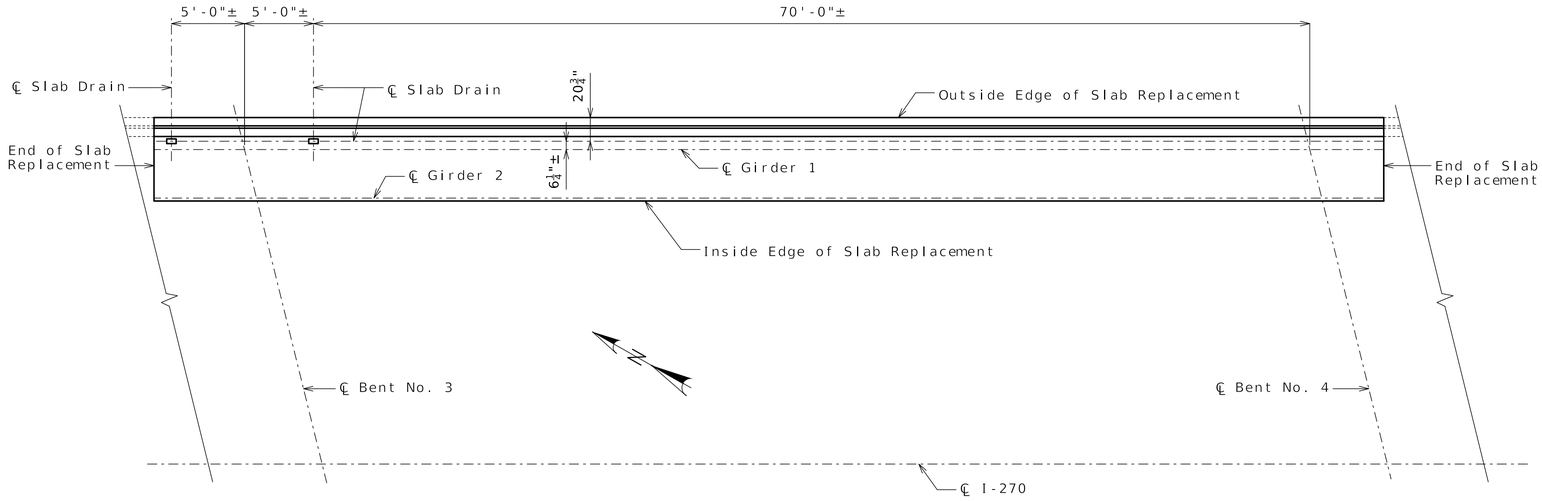
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10066

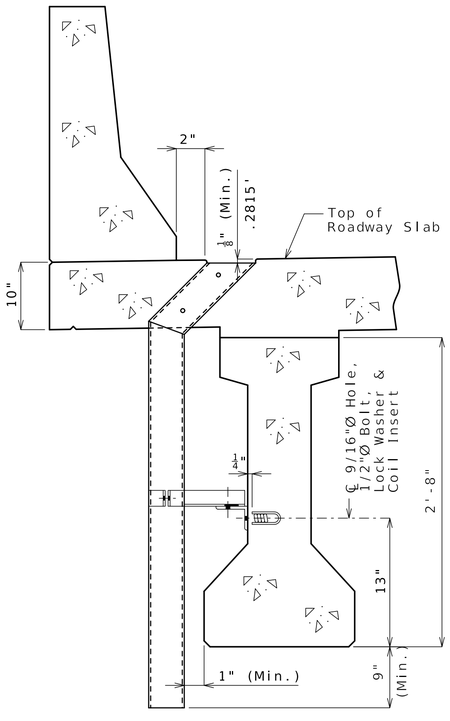
DESCRIPTION	DATE

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

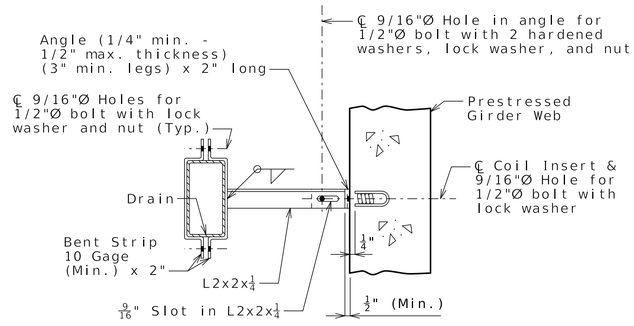


SPAN (3-4)

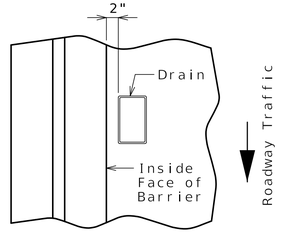
PART PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



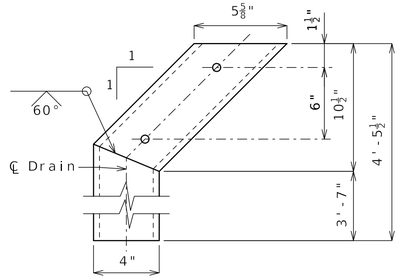
PART SECTION NEAR DRAIN



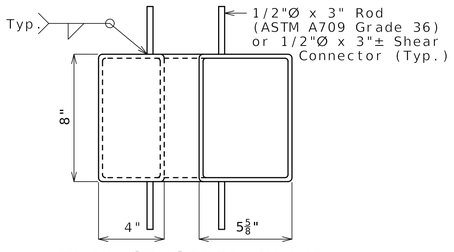
PART SECTION SHOWING BRACKET ASSEMBLY



PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN

General Notes:

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The coil inserts and bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø diameter bolts shall be ASTM A307.

Shop drawings will not be required for the slab drains and the bracket assembly.

The coil insert required for the bracket assembly attachment shall be located on the prestressed girder shop drawings.

Coil inserts shall have a concrete pull-out strength (ultimate load) of at least 2,500 pounds in 5,000 psi concrete.

The bolt required to attach the slab drain bracket assembly to the prestressed girder web shall be supplied by the prestressed girder fabricator.

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

SLAB DRAINS

Detailed July 2025
Checked July 2025

Note: This drawing is not to scale. Follow dimensions.

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PROFESSIONAL ENGINEER

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DATE PREPARED
7/31/2025

ROUTE	STATE
I-270	MO
DISTRICT	SHEET NO.
BR	6

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

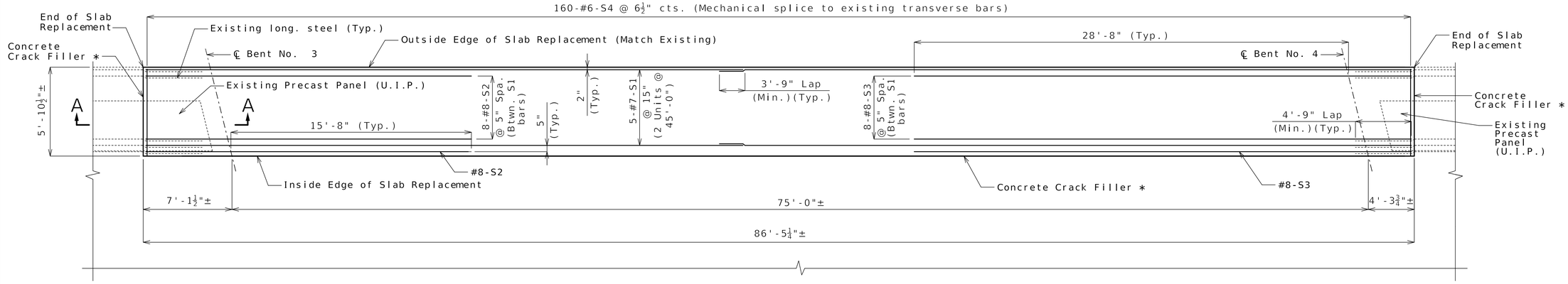
PROJECT NO.

BRIDGE NO.
A10066

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

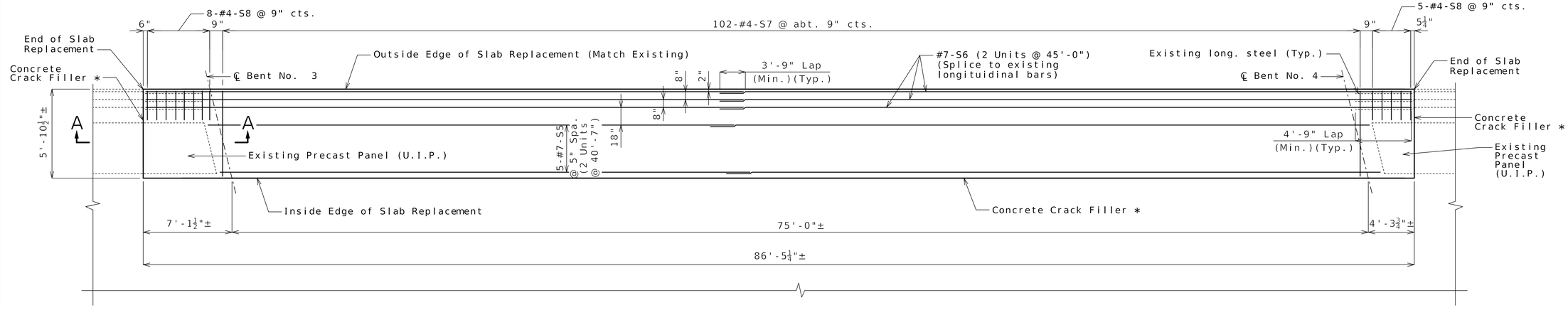
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SPAN (3-4)

PART PLAN OF SLAB SHOWING TOP REINFORCEMENT

(Mechanical bar splices not shown for clarity.)



SPAN (3-4)

PART PLAN OF SLAB SHOWING BOTTOM REINFORCMENT

* Concrete Crack Filler shall be in accordance with Sec 704 and 1053 and shall be applied one day before or one day after the application of the Penetrating Concrete Sealer. The cost for Concrete Crack Filler will be considered completely covered by the contract unit price for Partial Replacement of Slab on Concrete I-Girder.

Notes:

Longitudinal slab dimensions are measured horizontally.

For details of conduit, see Sheet No. 10.

The contractor shall pour and satisfactorily finish the roadway slab at a rate of not less than 25 cu. yd. per hour.

The contractor shall match the new edge of deck elevations to the existing.

For Section A-A, see Sheet No. 8.

SLAB DETAILS

Detailed July 2025
Checked July 2025

Note: This drawing is not to scale. Follow dimensions.

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DAVID JAMES HAGEMEYER
NUMBER PE-2007002788
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/31/2025
ROUTE: I-270
STATE: MO
DISTRICT: BR
SHEET NO.: 7
COUNTY: ST. LOUIS
JOB NO.: JSLM0112
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A10066

DESCRIPTION
DATE

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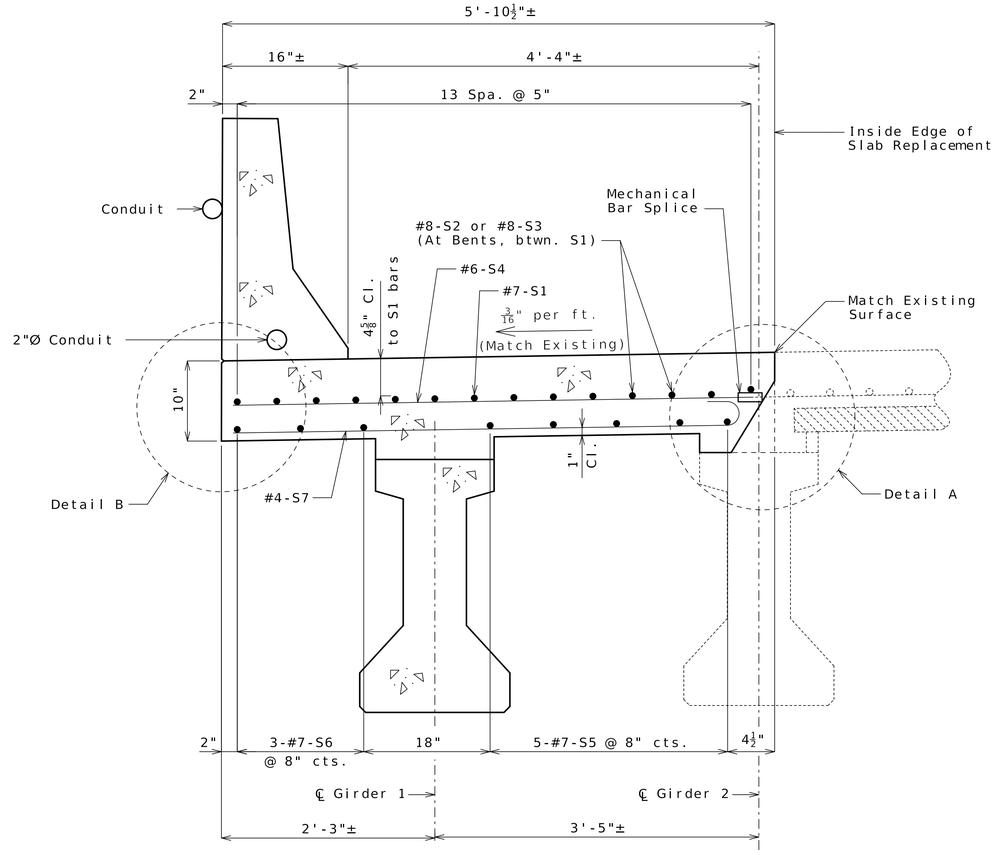
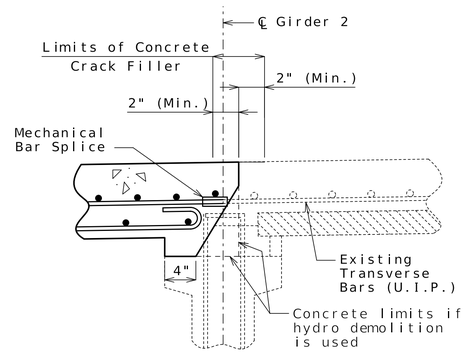
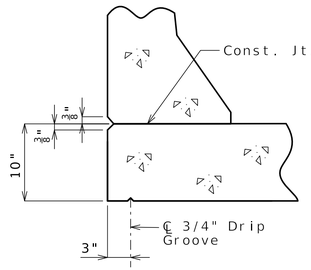
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



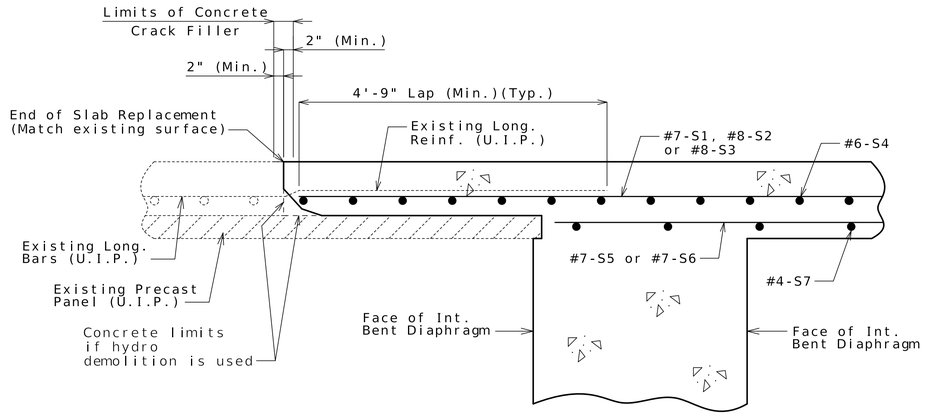
TYPICAL PART SECTION



DETAIL A

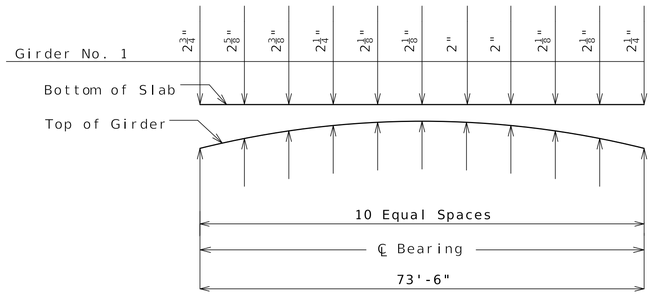


DETAIL B



SECTION A-A

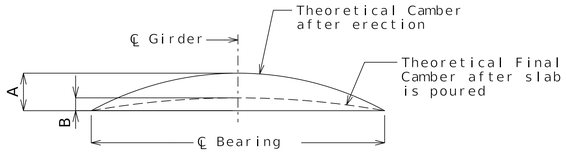
(Bent No. 3 shown, Bent No. 4 similar)
Diaphragm reinforcement not shown for clarity.



THEORETICAL SLAB HAUNCHING DIAGRAM

Haunch thickness shall be varied to provide required haunches and maintain 10" overall deck thickness.

In order to properly form the haunches for the replaced deck, the contractor shall survey the top of deck elevations above girder line 1 prior to deck removal followed by surveying elevations of the top of girder after deck removal.



Girder	Span (3-4)	
	A	B
Girder 1	2"	⅜"

GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber:

0.1 pt. = 0.314 x 0.5 pt.
0.2 pt. = 0.593 x 0.5 pt.
0.3 pt. = 0.813 x 0.5 pt.
0.4 pt. = 0.952 x 0.5 pt.

Notes:

Longitudinal slab dimensions are measured horizontally.

Concrete in the slab haunches is included in the Estimated Quantities for Partial Replacement of Slab on Concrete I-Girder.

If the girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, adjustment of the slab haunches shall be necessary. No payment will be made for additional labor or materials required for variation in haunching.

The contractor shall pour and satisfactorily finish the roadway slab at a rate of not less than 25 cu. yd. per hour.

The concrete diaphragm at the intermediate bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

The interior bay between girders 1 & 2 must be conventionally formed, no overhang brackets are allowed in the interior bay.

For details of conduit, see Sheet No. 10.

For location of Section A-A, see Sheet No. 7.

The contractor shall match the new edge of deck elevations to the existing.

SLAB DETAILS

Detailed July 2025
Checked July 2025

Note: This drawing is not to scale. Follow dimensions.

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PROFESSIONAL ENGINEER
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DATE PREPARED
7/31/2025

ROUTE	STATE
I-270	MO
DISTRICT	SHEET NO.
BR	8

COUNTY
ST. LOUIS

JOB NO.
JSLM0112

CONTRACT ID.

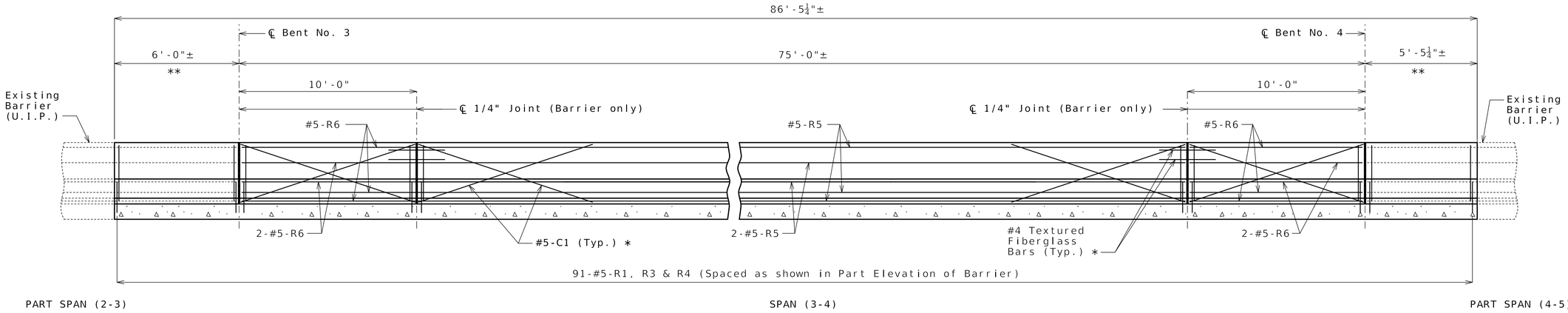
PROJECT NO.

BRIDGE NO.
A10066

DESCRIPTION

DATE

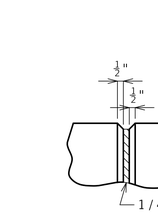
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



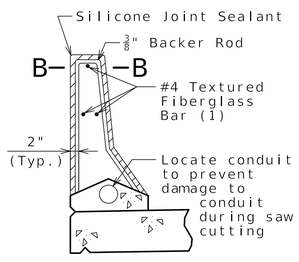
ELEVATION OF BARRIER

Longitudinal dimensions are horizontal.

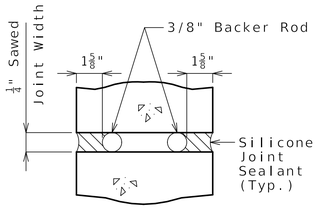
** Existing longitudinal rebar in barrier to remain within these limits



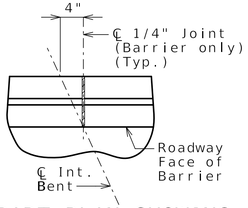
PART ELEVATION AT FORMED JOINT



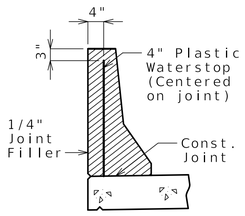
SECTION THRU SAW CUT JOINT



SECTION B-B



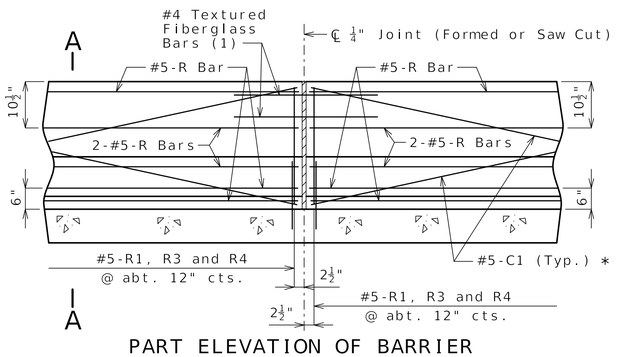
PART PLAN SHOWING JOINT LOCATION



WATERSTOP DETAIL

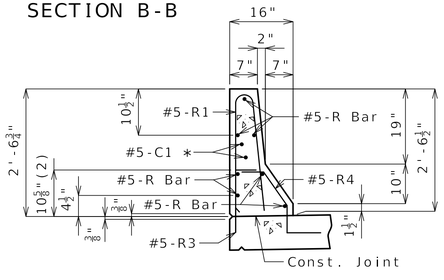
Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.



PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only

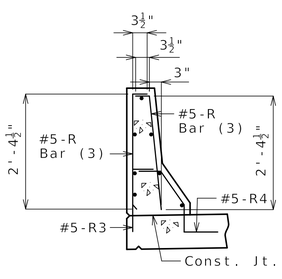


SECTION A-A

Use a minimum lap of 2'-6" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.27 square feet.

(2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

General Notes:

* Slip-formed option only.

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

Top of barrier shall be built parallel to grade with barrier joints normal to grade.

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

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

Concrete in the barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot, measured along the gutter line within limits of removal.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 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 Type B Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

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

Plastic waterstop shall not be used with saw cut joints.

TYPE B BARRIER

STATE OF MISSOURI
DAVID JAMES HAGEMEYER
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PROFESSIONAL ENGINEER
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ROUTE I-270 | STATE MO
DISTRICT BR | SHEET NO. 9
COUNTY ST. LOUIS
JOB NO. JSLM0112
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A10066

DESCRIPTION | DATE

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

Detailed July 2025
Checked July 2025

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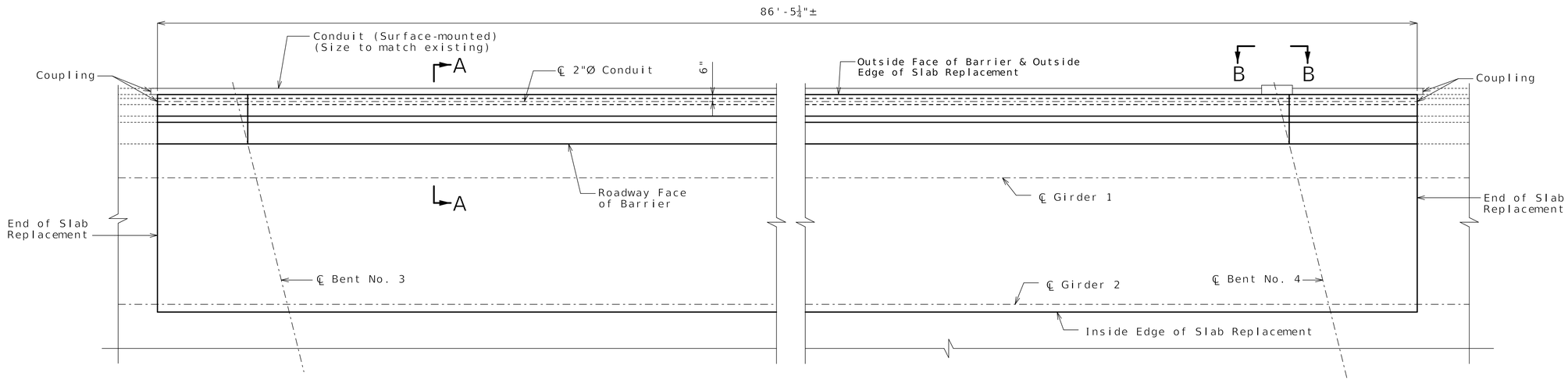
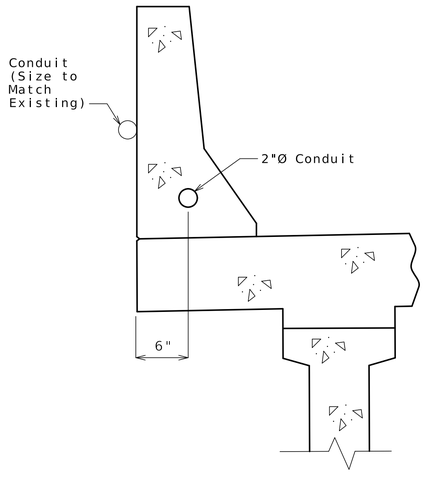
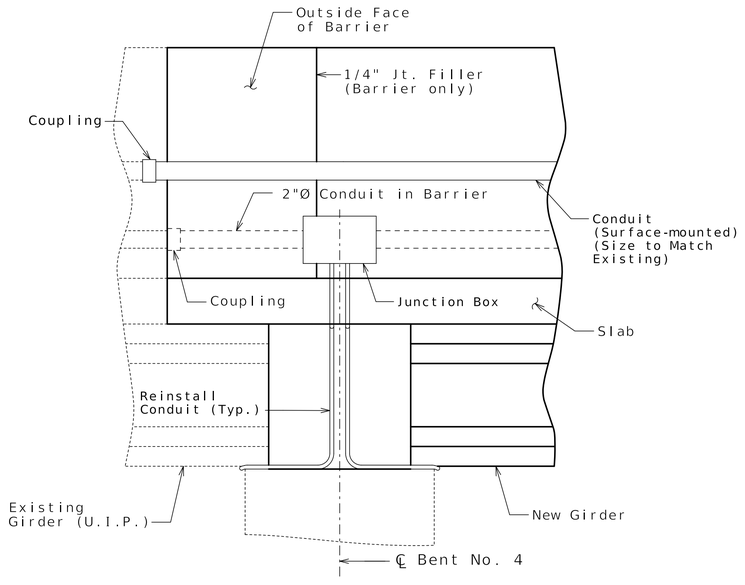


SPAN (3-4)

PART PLAN SHOWING CONDUIT SYSTEM



SECTION A-A



ELEVATION B-B

Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic) with 3" minimum cover when embedded in concrete. Each section of conduit shall bear the underwriters' laboratories, inc. (UL) label.

Shift reinforcing steel in field where necessary to clear conduit and junction box.

Wiring and fixtures shall be replaced in-kind.

Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

Cost of furnishing and placing conduit, junction box, and coupling for lighting shall be included in contract unit price of Conduit System on Structure.

CONDUIT SYSTEM

Detailed July 2025
Checked July 2025

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ROUTE	STATE
I-270	MO
DISTRICT	SHEET NO.
BR	10

COUNTY: ST. LOUIS
JOB NO.: JSLM0112
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A10066

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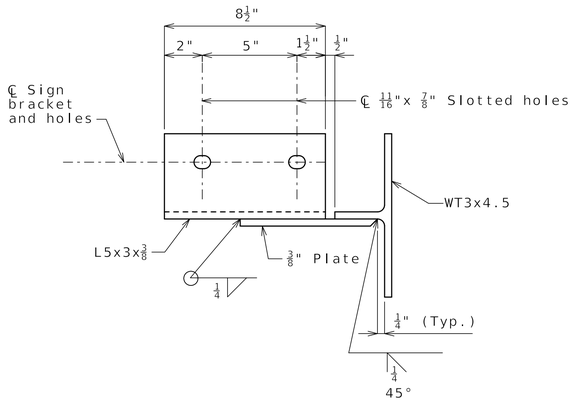
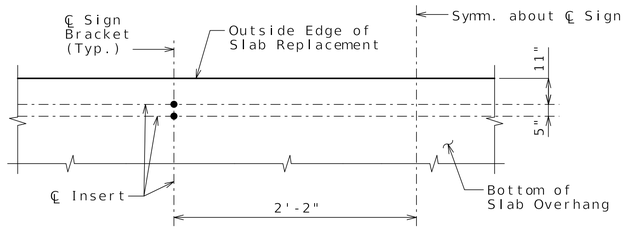
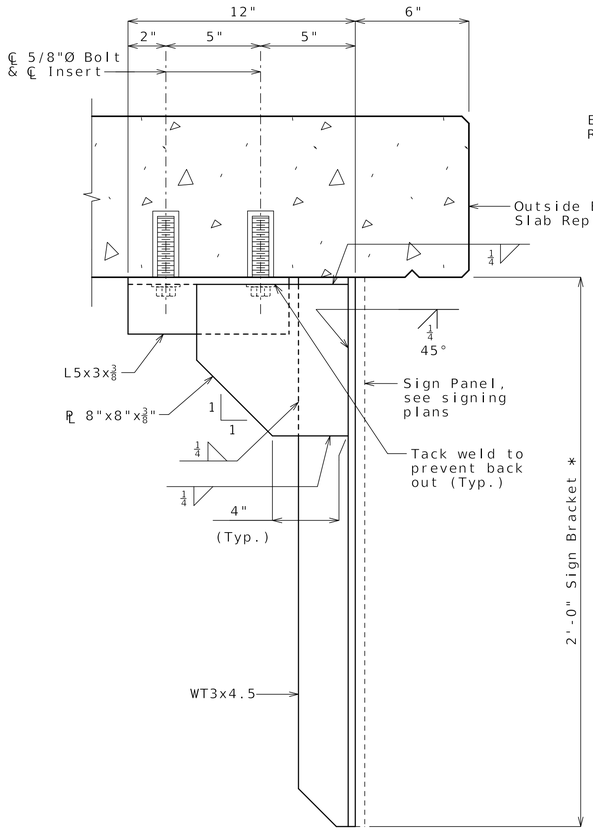


SIGN BRACKET TOP VIEW

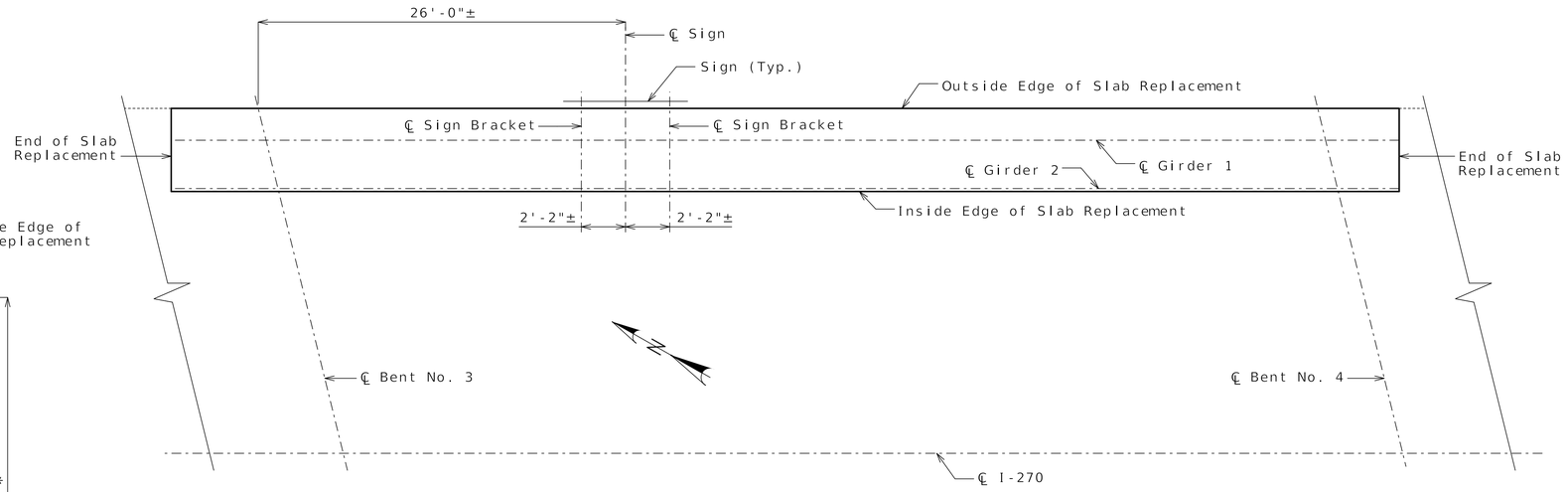


PART PLAN SHOWING INSERT SPACING



SIGN BRACKET DETAIL

Barrier not shown for clarity.



SIGN LAYOUT PLAN

* Contractor shall verify length to meet connection requirements per Standard Plans 903.03

Notes:

At the contractor's option, existing sign brackets may be reused if undamaged, by approval of the Engineer.

Steel for sign brackets shall be ASTM A709 Grade 36.

Welding and weld filler material shall be in accordance with the AWS D1.1 Welding Code.

Sign brackets shall be hot dip galvanized after fabrication in accordance with ASTM A123.

Threaded inserts shall provide a safe working load in tension of 2200 pounds each and shear of 1990 pounds each.

Fasteners for inserts shall be 5/8-inch diameter bolts with oversized washer and lock washer. All material shall be galvanized per insert manufacturer's specifications.

Sign bracket shall be installed plumb in the bridge transverse direction; shim as required.

Payment for furnishing and erecting approximately 50 pounds of steel for sign supports will be considered completely covered by the contract lump sum price for Fabricated Sign Support Brackets.

Sign is a Roadway item.

Sign attachment shall be in accordance with Standard Plans 903.03.

CLEARANCE SIGN BRACKET

Detailed July 2025
Checked July 2025

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DISTRICT: BR | SHEET NO.: 11
COUNTY: ST. LOUIS
JOB NO.: JSLM0112
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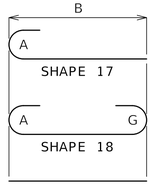
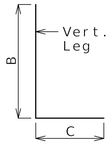
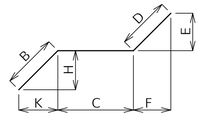
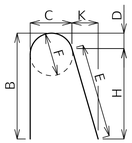
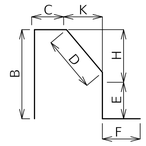
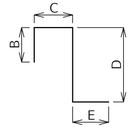












BENDING DIAGRAMS

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Reinforcing Steel Totals (Pounds)

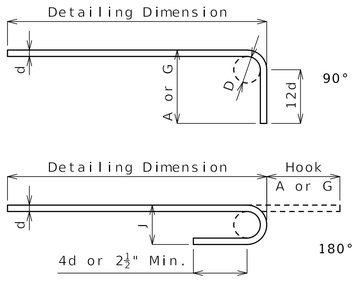
	Size	Substructure Plain	Substructure Epoxy	Superstructure Slab	Superstructure Barrier	Superstructure Slip Form	Entire Bridge Plain	Entire Bridge Epoxy
By Size	W5	0	0	0	0	0	0	0
	4	0	0	429	0	0	0	429
	5	0	0	100	1,452	83	0	1,635
	6	0	0	1,472	0	0	0	1,472
	7	0	0	2,302	0	0	0	2,302
	8	0	0	1,336	0	0	0	1,336
	9	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0
By Type		0	0	5,639	1,452	83	0	7,174

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G 90°	A or G 180°	J 180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"

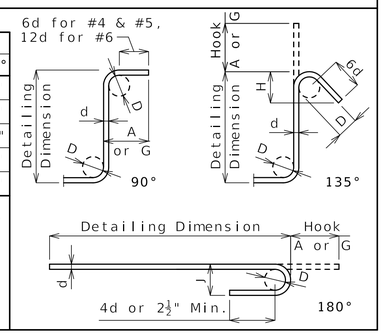


Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G 90°	A or G 135°	A or G 180°	H 135°	J 180°
#4	2	2"	4½"	4½"	5"	2⅞"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	C	SH	V	B	C	D	E	F	H	K	Nom. Length	Actual Length	Weight
						ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	lb
		Superstructure													
		Int Diaphragm													
8	4 H1	DIAPHRAGM	E	20		20.00							1 11	1 10	9
8	6 H2	DIAPHRAGM	E	20		20.00							1 11	1 10	20
16	5 H3	DIAPHRAGM	E	19S		2 11.00	11.00						3 11	3 10	63
4	5 H4	STRAND TIE	E	20		2 10.00							2 11	2 10	12
4	4 U1	DIAPHRAGM	E	28S			22.00	2 6.00	15.00				5 11	5 10	14
8	6 U2	DIAPHRAGM	E	28S			22.00	2 6.00	22.00				6 11	5 10	70
8	5 V1	DIAPHRAGM	E	20		3 0.00							3 11	3 10	25
		Slab													
10	7 S1	SLAB	E	20		45 0.00							45 11	45 10	920
9	8 S2	SLAB	E	20		22 8.00							22 11	22 10	545
9	8 S3	SLAB	E	20		32 11.00							32 11	32 10	791
160	6 S4	SLAB	E	20		5 9.00							5 11	5 10	1,382
10	7 S5	SLAB	E	20		40 7.00							40 11	40 10	830
6	7 S6	SLAB	E	20		45 0.00							45 11	45 10	552
102	4 S7	SLAB	E	17		5 2.00							5 11	5 10	386
13	4 S8	SLAB	E	20		2 4.00							2 11	2 10	20
		Barrier													
		Type B													
91	5 R1	BARRIER	E	26		2 4.50	4.00	1.75	2 3.00	4.00	2 2.74	3.00	5 11	4 10	467
91	5 R3	BARRIER	E	19S		17.00	5.75						1 11	1 10	166
91	5 R4	BARRIER	E	27S			5.75	11.75	7.75	12.00	9.50	6.75	3 11	2 10	277
7	5 R5	BARRIER	E	20		54 9.00							54 11	54 10	400
14	5 R6	BARRIER	E	20		9 9.00							9 11	9 10	142
		Slip-Form													
8	5 C1	SLIP FORM	E	20		10 0.00							10 11	10 10	83

BILL OF REINFORCING STEEL

Detailed July 2025
Checked July 2025

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
DAVID JAMES HAGEMEYER
NUMBER PE-2007002788
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/31/2025
ROUTE I-270
STATE MO
DISTRICT BR
SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. JSLM0112
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A10066

DESCRIPTION
DATE

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