
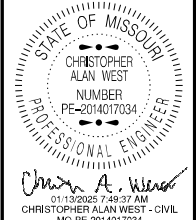
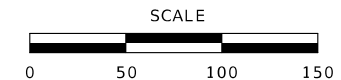


WARNING SIGNS										GUIDE SIGNS												EFFECTIVE: 07-01-2024	
SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION		SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION		ITEM NUMBER	TOTAL QTY	DESCRIPTION	
WO1-1L	48X48	16.00							TURN (SYMBOL LEFT)	E05-1	36X48	12.00							GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00							TURN (SYMBOL RIGHT)	E05-2	48X36	12.00							EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00							CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00							EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00							CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00							ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00							REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16.00					END ROAD WORK	6122017		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00							REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50							PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00	1	16.00					REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75							PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4R	48X48	16.00	1	16.00					REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50							PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bL	48X48	16.00							DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	8	48.00					WORK ZONE (PLAQUE)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-4bR	48X48	16.00							DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00							END DETOUR	6161008	3	ADVANCED WARNING RAIL SYSTEM	
WO1-4cL	48X48	16.00							TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00							DETOUR (LEFT)	6161012		BUOYS (BOATS KEEP OUT)	
WO1-4cR	48X48	16.00							TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00							DETOUR (RIGHT)	6161013		BUOYS (NO WAKE)	
WO1-6	60X30	12.50	2	25.00					HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00							STREET NAME (PLAQUE)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-6a	72X36	18.00							HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00							DETOUR ARROW (LEFT)	6161025	120	CHANNELIZER (TRIM LINE)	
WO1-7	60X30	12.50							DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00							DETOUR ARROW (RIGHT)	6161030	22	TYPE III MOVEABLE BARRICADE	
WO1-7a	72X36	18.00							DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)											6161033	19	DIRECTION INDICATOR BARRICADE	
WO1-8	18X24	3.00							CHEVRON (SYMBOL)	R1-1	48X48	13.25							STOP	6161040	2	FLASHING ARROW PANEL	
WO1-8a	30X36	7.50							CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93							YIELD	6161047		TYPE III OBJECT MARKER	
WO3-1	48X48	16.00							STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00							TO ONCOMING TRAFFIC (PLAQUE)	6161055	14	SEQUENTIAL FLASHING WARNING LIGHT	
WO3-2	48X48	16.00							YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50							ALL WAY (PLAQUE)	6161070	125	TUBULAR MARKER	
WO3-3	48X48	16.00							SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48.00					SPEED LIMIT XX	6161095		RADAR SPEED ADVISORY SYSTEM	
WO3-4	48X48	16.00							BE PREPARED TO STOP	R3-1	48X48	16.00							NO RIGHT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO3-5	48X48	16.00	1	16.00					SPEED LIMIT AHEAD	R3-2	48X48	16.00							NO LEFT TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED	
WO4-1L	48X48	16.00	1	16.00					MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00							NO TURNS			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED	
WO4-1R	48X48	16.00	1	16.00					MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00							NO U-TURN (SYMBOL)	6161098A		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED	
WO4-1aL	48X48	16.00	1	16.00					MERGE (LEFT)	R3-7L	30X30	6.25							LEFT LANE MUST TURN LEFT			WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO4-1aR	48X48	16.00	1	16.00					MERGE (RIGHT)	R3-7R	30X30	6.25							RIGHT LANE MUST TURN RIGHT	6161099		WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO5-1	48X48	16.00							ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00	6	72.00					DON NOT PASS	6162000A		TEMPORARY LONG-TERM RUMBLE STRIPS	
WO5-3	48X48	16.00							ONE LANE BRIDGE	R4-2	36X48	12.00							PASS WITH CARE	6162002	2	TEMPORARY TRAFFIC BARRIER	
WO5-5	48X48	16.00							NARROW LANES	R4-7a	36X48	12.00							KEEP RIGHT (HORIZONTAL ARROW)			CONTRACTOR FURNISHED/COMMISSION RETAINED	
WO6-1	48X48	16.00							DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00							KEEP LEFT (HORIZONTAL ARROW)	6173600D		TEMPORARY TRAFFIC BARRIER	
WO6-2	48X48	16.00							DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25							DO NOT ENTER			CONTRACTOR FURNISHED/COMMISSION RETAINED	
WO6-3	48X48	16.00	5	80.00					TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00							WRONG WAY	6173602B		TEMPORARY TRAFFIC BARRIER	
WO7-3a	30X24	5.00							NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75							ONE WAY ARROW (LEFT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-1	48X48	16.00							BUMP	R6-1R	54X18	6.75							ONE WAY ARROW (RIGHT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER	
WO8-2	48X48	16.00							DIP	R6-2L	24X30	5.00							ONE WAY (LEFT)			TEMPORARY TRAFFIC BARRIER	
WO8-3	48X48	16.00							PAVEMENT ENDS	R6-2R	24X30	5.00							ONE WAY (RIGHT)	6176000B		COMMISSION FURNISHED/RETAINED	
WO8-4	48X48	16.00							SOFT SHOULDER	R9-9	24X12	2.00							SIDEWALK CLOSED			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-5	48X48	16.00							SLIPPERY WHEN WET (SYMBOL)										SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6177000B		COMMISSION FURNISHED/RETAINED	
WO8-6	48X48	16.00							TRUCK CROSSING	R9-11L	24X18	3.00							(ARROW RIGHT) CROSS HERE	6208064A		TEMPORARY RAISED PAVEMENT MARKER	
WO8-6c	48X48	16.00							TRUCK ENTRANCE	R9-11R	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS	
WO8-7	36X36	9.00							LOOSE GRAVEL	R10-6	24X36	6.00							STOP HERE ON RED (45° ARROW)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8-7a	36X36	9.00							FRESH OIL / LOOSE GRAVEL	R11-2	48X30	10.00	3	30.00					ROAD CLOSED				
WO8-9	48X48	16.00							LOW SHOULDER										ROAD CLOSED XX MILES AHEAD				
WO8-11	48X48	16.00							UNEVEN LANES	R11-3a	60X30	12.50							LOCAL TRAFFIC ONLY				
WO8-12	48X48	16.00							NO CENTER LINE	R11-4	60X30	12.50							ROAD CLOSED TO THRU TRAFFIC				
WO8-15	48X48	16.00							GROOVED PAVEMENT	CONST-3A	60X48	20.00							FINE SIGN				
WO8-15P	30X24	5.00							MOTORCYCLE (PLAQUE)	CONST-3X	56X12	4.67							SPEEDING/PASSING (PLATE)				
WO8-17L	48X48	16.00							SHOULDER DROP-OFF (SYMBOL LEFT)														
WO8-17R	48X48	16.00							SHOULDER DROP-OFF (SYMBOL RIGHT)														
WO8-17P	30X24	5.00							SHOULDER DROP-OFF (PLAQUE)														
W10-1	42RND.	9.62							RAILROAD CROSSING														
WO12-1	24X24	4.00							DOUBLE DOWN ARROW (SYMBOL)														
WO12-2	48X48	16.00							LOW CLEARANCE (SYMBOL)														
WO12-2x	24X18	3.00							LOW CLEARANCE (PLAQUE)														
WO12-2a	84X24	14.00							OVERHEAD LOW CLEARANCE (FEET AND INCHES)														
WO12-4	120X60	50.00							LOW CLEARANCE XX FT XX IN XX MILES AHEAD														
WO12-5	120X60	50.00							WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD														
WO13-1	30X30	6.25	1	6.25					ADVISORY SPEED (PLAQUE)														
WO16-2	30X24	5.00							XXX FEET (PLAQUE)														
WO16-3	30X24	5.00							X MILE (PLAQUE)														
WO20-1	48X48	16.00	11	176.00					ROAD/BRIDGE/RAMP WORK AHEAD														
WO20-2	48X48	16.00							DETOUR AHEAD														
WO20-3	48X48	16.00							ROAD CLOSED AHEAD														
WO20-4	48X48	16.00							ONE LANE ROAD AHEAD														
WO20-5	48X48	16.00	3	48.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.05													
WO20-5a	48X48	16.00							2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	CONSTRUCTION SIGNS													
WO20-6a	48X48	16.00	3	48.00					RIGHT/CENTER/LEFT LANE CLOSED	616-10.10													
WO20-7a	48X48	16.00							FLAGGER (SYMBOL)	RELOCATED SIGNS													
WO21-2	36X36	9.00							FRESH OIL														
WO21-5	48X48	16.00							SHOULDER WORK / SHOULDER WORK AHEAD														
WO22-1	48X48	16.00							BLASTING ZONE AHEAD														
WO22-2	42X36	10.50							TURN OFF 2-WAY RADIO AND PHONE														
WO22-3	42X36	10.50							END BLASTING ZONE														
GO22-1	21X15	2.19							WET PAINT (ARROW PIVOTS)														



DATE PREPARED: 2/5/2025
ROUTE: 24 STATE: MO
DISTRICT: KC SHEET NO.: 3
COUNTY: JACKSON
JOB NO.: JKU0040
CONTRACT ID.
PROJECT NO.
BRIDGE NO.: A2721, A2722, A2723, A2724

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



C1 CROSSOVER
 PI 577+95.75
 PC 577+47.93
 PT 578+43.50
 Δ 5°28'40.1" (LT)
 D 5°43'54.2"
 L 95.57' (ARC)
 T 47.82'
 R 999.62'

580

STA 582+45.00 TO 584+45.00
 BLD 200' TEMPORAY TRAFFIC
 BARRIER CONTRACTOR FURNISHED
 CONTRACTOR RETAINED
 BLD 2 TYPE C MASH COT

585

STA. 585+00 RTE. 24
 20.3' LT COVER EXIST.
 D.I. WITH STEEL PLATE
 REMOVE STEEL PLATE
 WHEN X-OVER IS REMOVED

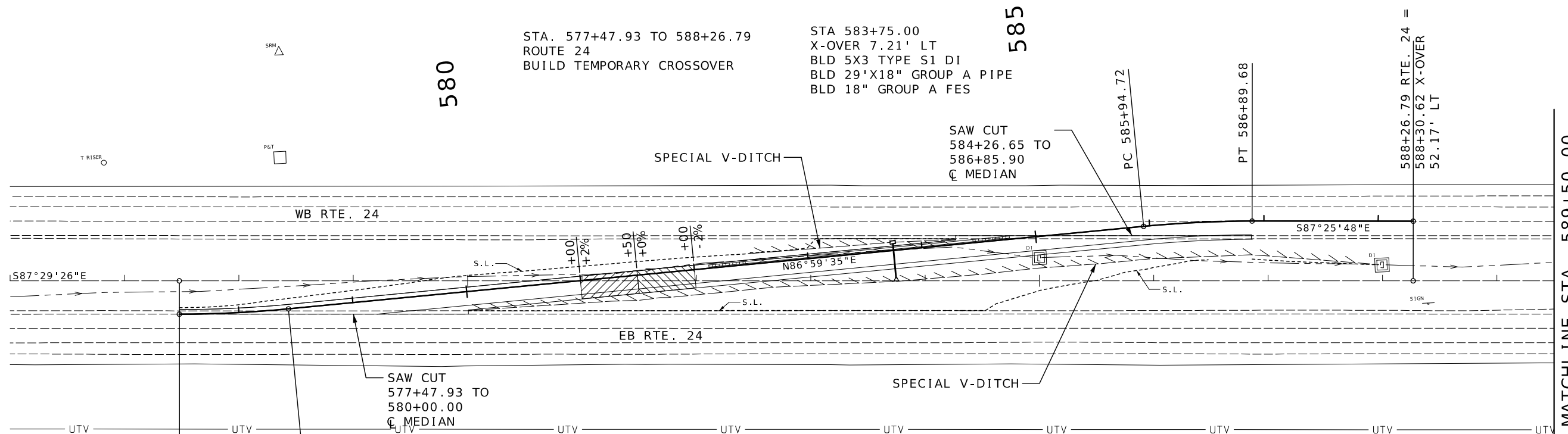
580

STA. 577+47.93 TO 588+26.79
 ROUTE 24
 BUILD TEMPORARY CROSSOVER

585

STA 583+75.00
 X-OVER 7.21' LT
 BLD 5X3 TYPE S1 DI
 BLD 29'X18" GROUP A PIPE
 BLD 18" GROUP A FES

SAW CUT
 584+26.65 TO
 586+85.90
 CL MEDIAN



MATCHLINE STA. 589+50.00

NOTE:

WHEN REMOVING THE TEMPORARY CROSSOVER
 SAW CUT 4' FROM THE EXISTING EDGE OF
 PAVEMENT. THIS 4' IS TO REMAIN IN
 PLACE TO BE USED AS THE SHOULDER OF
 ROUTE 24.

C2 CROSSOVER
 PI 586+42.24
 PC 585+94.72
 PT 586+89.68
 Δ 5°26'27.5" (RT)
 D 5°43'46.5"
 L 94.96' (ARC)
 T 47.52'
 R 1,000.00'

DESCRIPTION

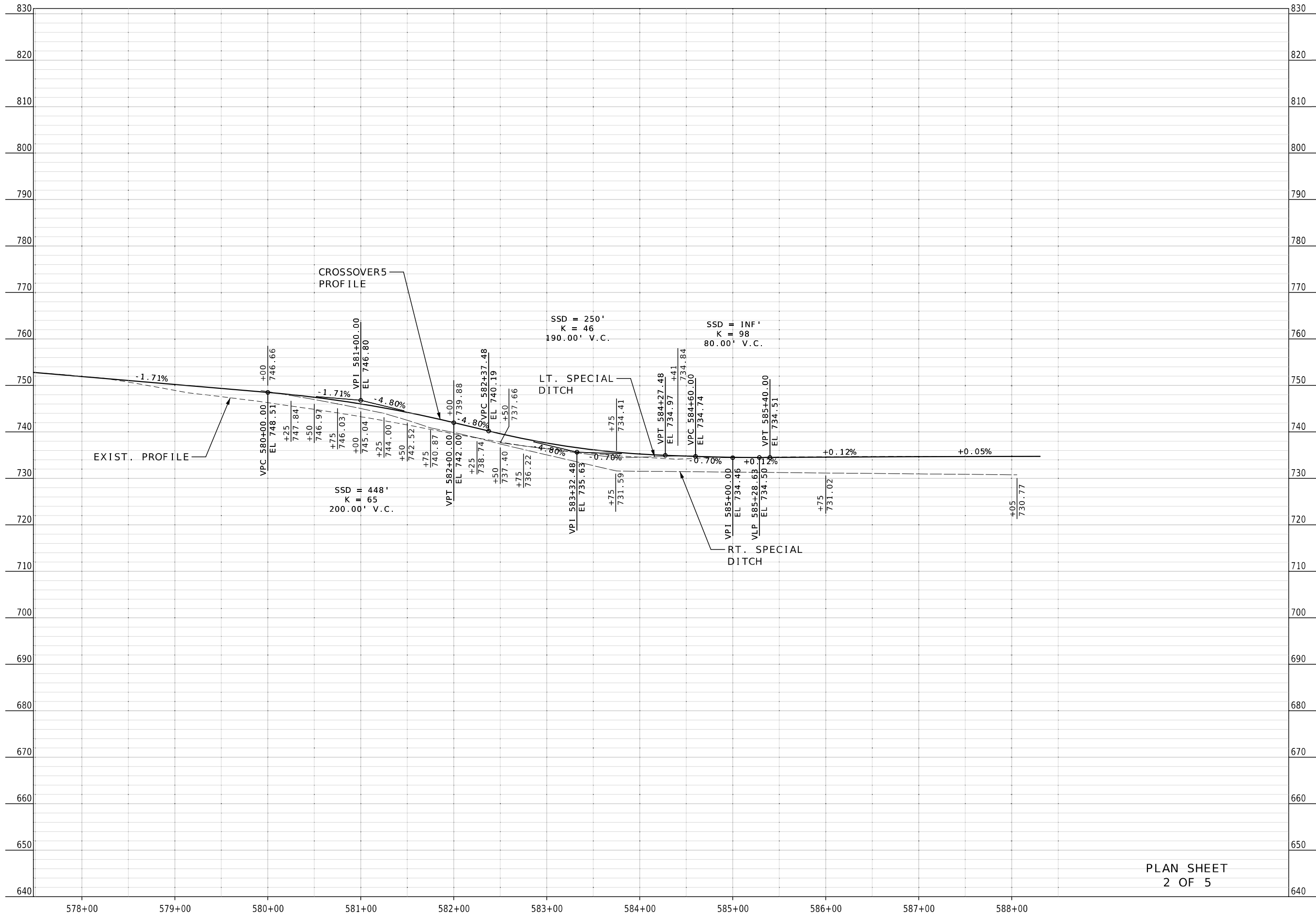
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

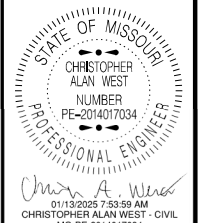
DESCRIPTION	DATE

BRIDGE NO.
 A2721, A2722
 A2723, A2724

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



PLAN SHEET
2 OF 5



DATE PREPARED
1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 5

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

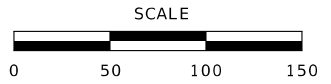
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

605

BR. A8160 SW CORNER
BUILD TEMPORARY GUARDRAIL
1 - MGS BR. APPR. TRANS. SECTION
187.5' MGS GUARDRAIL
1 - MASH CRASHWORTHY END TEMINAL

610

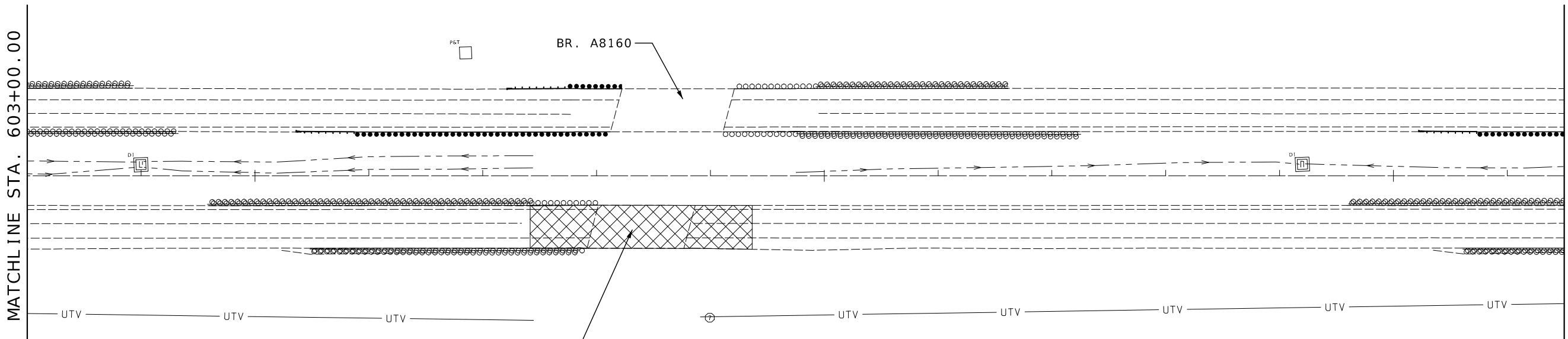
BR. A8160 NW CORNER
BUILD TEMPORARY GUARDRAIL
1 - MGS BR. APPR. TRANS. SECTION
12.5' MGS GUARDRAIL
1 - MASH CRASHWORTHY END TEMINAL



615

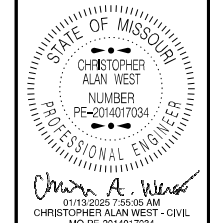
MATCHLINE STA. 603+00.00

MATCHLINE STA. 616+50.00



BR. A2722
REMOVE AND REPLACE
WEARING SURFACE

COLDMILL 2" X 50' EACH END
OF BR. A2722. FILL WITH 2"
OF SP125C PG 70-22.



DATE PREPARED	
1/12/2025	
ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
KC	7
COUNTY	
JACKSON	
JOB NO.	
JKU0040	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO.	
A2721, A2722	
A2723, A2724	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

BR. A8161 SW CORNER
 BLD. TEMPORARY GUARDRAIL
 1- MGS BR. APPR. TRANS. SECTION
 187.5' MGS GUARDRAIL
 1 - MASH CRASHWORTHY END TERMINAL

620

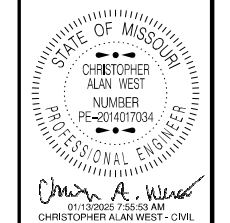
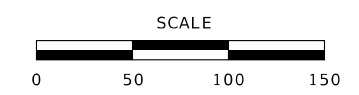
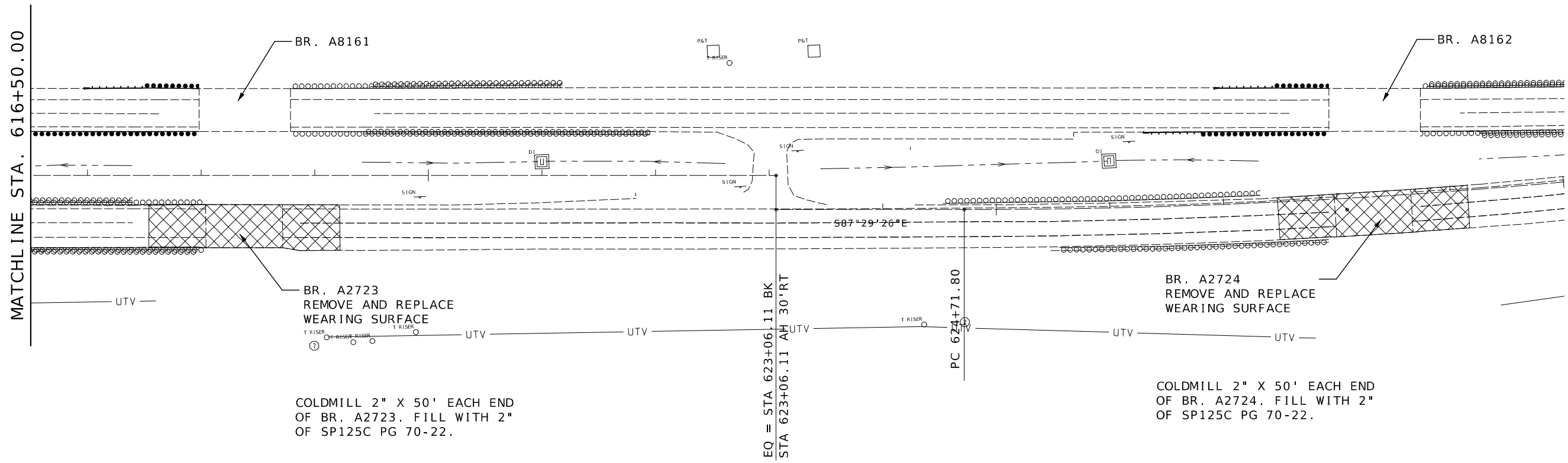
BR. A8161 NW CORNER
 BLD. TEMPORARY GUARDRAIL
 1- MGS BR. APPR. TRANS. SECTION
 12.5' MGS GUARDRAIL
 1 - MASH CRASHWORTHY END TERMINAL

625

BR. A8162 SW CORNER
 BLD. TEMPORARY GUARDRAIL
 1- MGS BR. APPR. TRANS. SECTION
 75' MGS GUARDRAIL
 1 - MASH CRASHWORTHY END TERMINAL

PI 628+08.90
 PC 624+71.80
 PT 631+45.22
 Δ 6°44'1.5" (LT)
 D 0°59'59.7"
 L 673.42' (ARC)
 T 337.10'
 R 5,730.00'

630



DATE PREPARED
1/12/2025

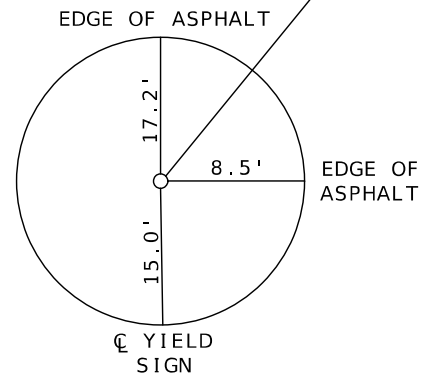
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 8
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO.	DESCRIPTION	DATE
A2721, A2722		
A2723, A2724		

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

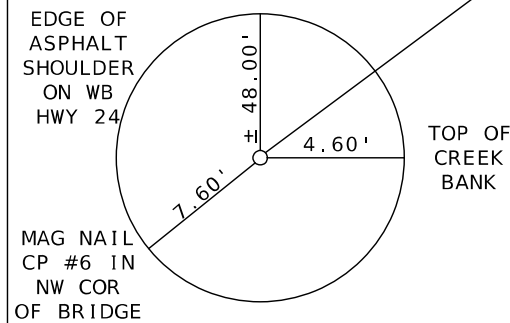
CP#100
1/2" IB W/ GBA CAP IN MEDIAN



N: 1082310.26
E: 2869488.63
EL: 733.85

☉ MED. STA. 591+40.47 10.31' LT

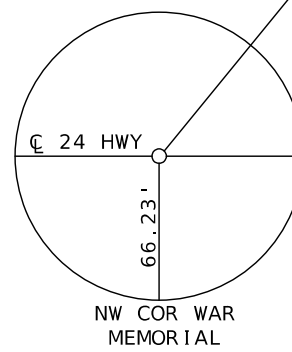
CP#101
1/2" IB W/ GBA CAP IN MEDIAN ON WEST SIDE OF CREEK BANK @ 1ST BRIDGE EAST OF BURNLEY ROAD



N: 1082248.58
E: 2870262.06
EL: 735.20

☉ MED. STA. 599+15.95 17.53 RT

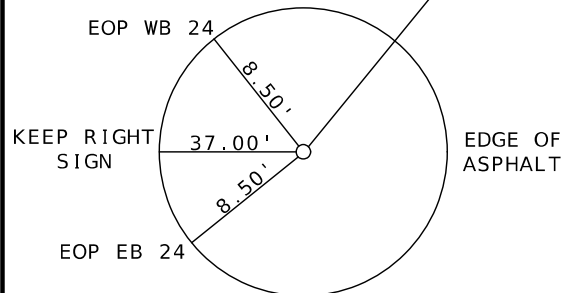
CP#7
5/8" IB W/ MODOT CAP NW CORNER OF BUCKNER WAR MEMORIAL



N: 1082079.69
E: 2874465.52
EL: 742.78

☉ MED. STA. 541+24.73 66.23 RT

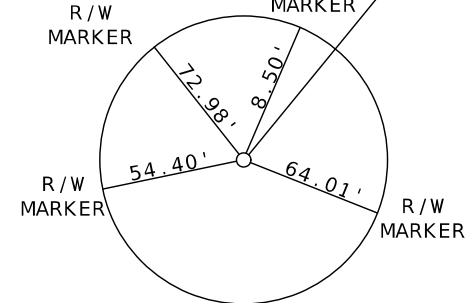
CP#8
5/8" IB W/ MODOT CAP IN GRASS MEDIAN IN NOSE OF DIVIDED EB/WB/LANES



N: 1002155.728
E: 2873622.097
EL: 734.87

☉ MED. STA. 632+80.38 12.91 LT

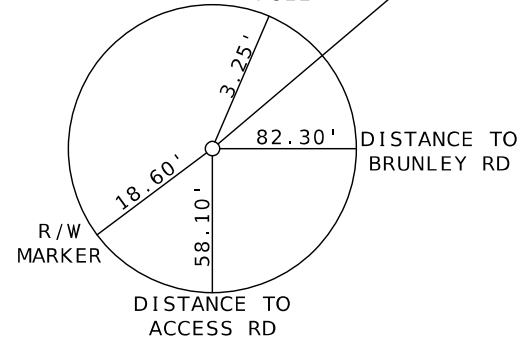
CP#6
5/8" IB W/ MODOT CAP IN N R/W ACROSS FROM N WINFREY RD X-OVER



N: 1082459.47
E: 2866873.98
EL: 776.33

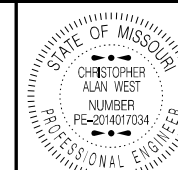
☉ MED. STA. 565+17.94 134.73 LT

BM#F329
STAINLESS STEEL ROD IN MONUMENT BOX IN N R/W @ INTERSECTION OF 24 HWY AND N BRUNLEY RD



N: 1082518.43
E: 2869441.48
EL: 735.16

☉ MED. STA. 590+84.33 216.14 LT



Christopher Alan West
11/13/2005 7:56:52 AM
CHRISTOPHER ALAN WEST - CIVIL
MO-PE-2014017034

DATE PREPARED
1/12/2025

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 9

COUNTY JACKSON

JOB NO. JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A2721, A2722, A2723, A2724

DESCRIPTION

DATE

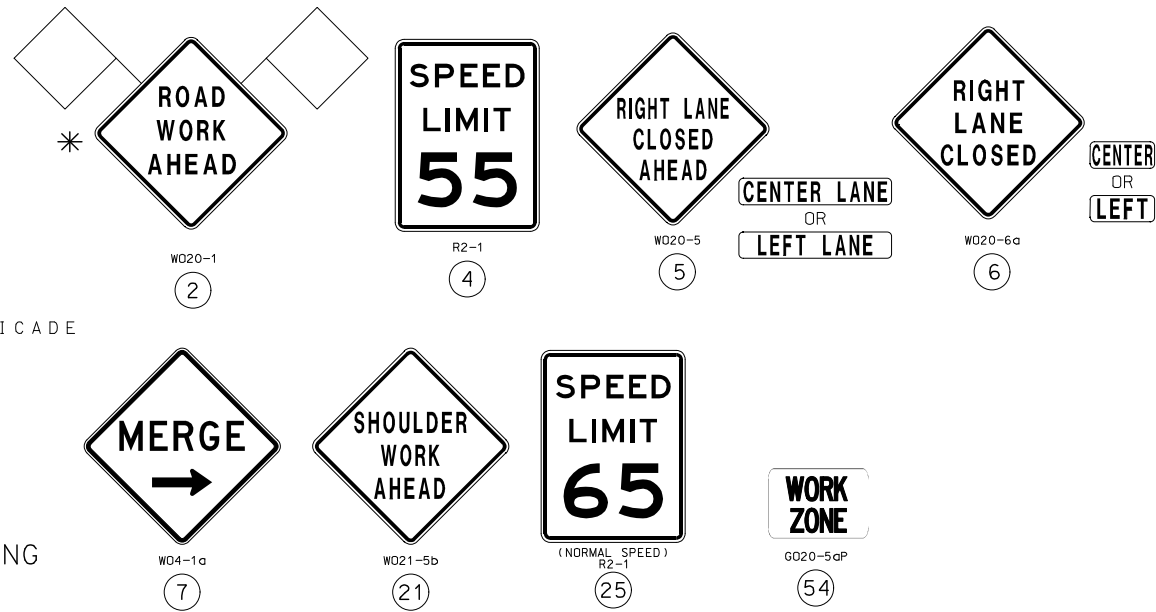
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

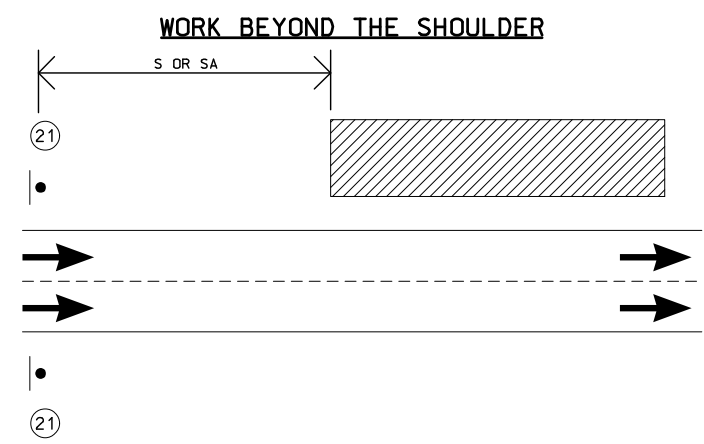
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL LEGEND

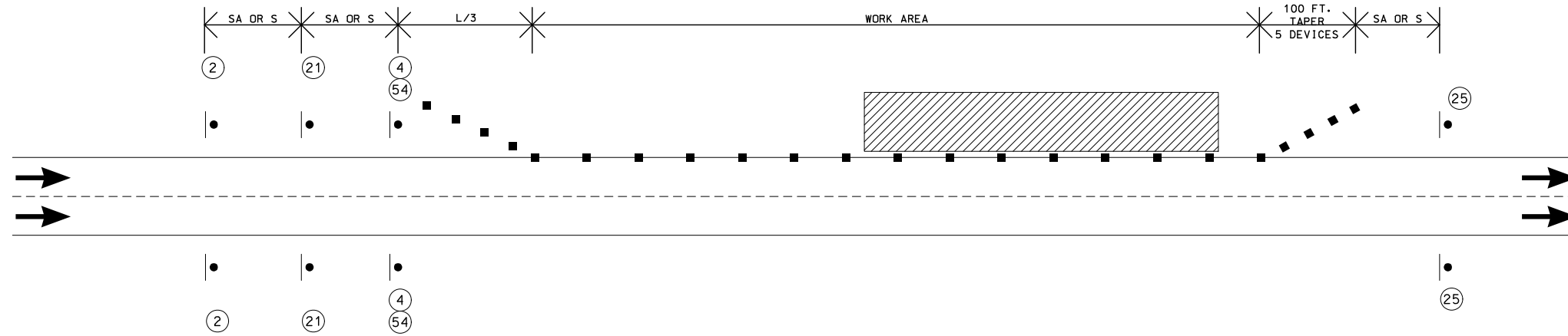
- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▧ WORK AREA
- ⋯ FLASHING ARROW PANELS



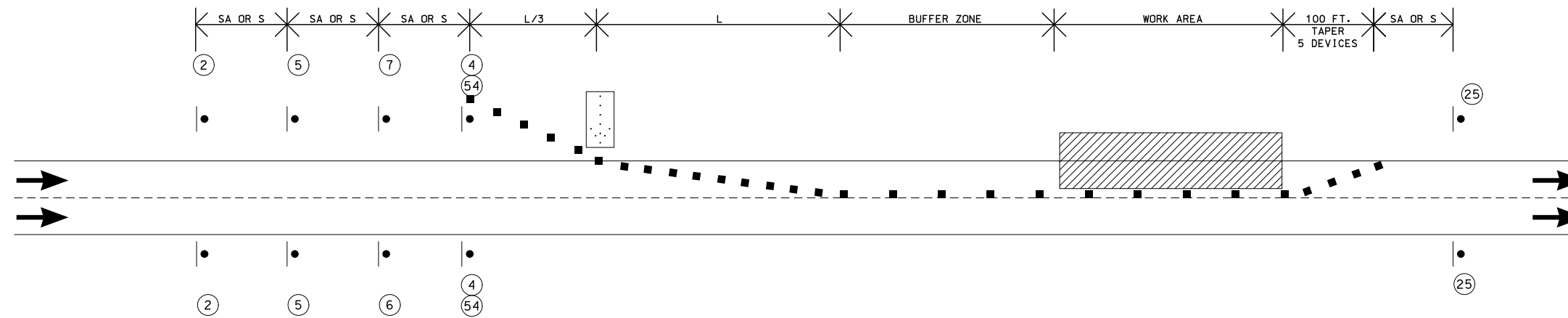
*NOTE: INCLUDE ADVANCED WARNING RAIL SYSTEM WITH W020-1



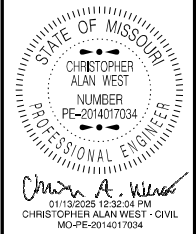
WORK ON SHOULDER WITH NO TRAVELWAY ENCROACHMENT



LANE CLOSURE



Note:
For Taper Lengths, Spacing Of Channelizing Devices,
Sign Spacing For Advanced Sign Series, And Recommended Buffer
Lengths. See Sheet \$TC002\$



DATE PREPARED
1/12/2025
ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 11
COUNTY JACKSON
JOB NO. JKU0040
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A2721, A2722, A2723, A2724

DATE	DESCRIPTION

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

TRAFFIC CONTROL LEGEND

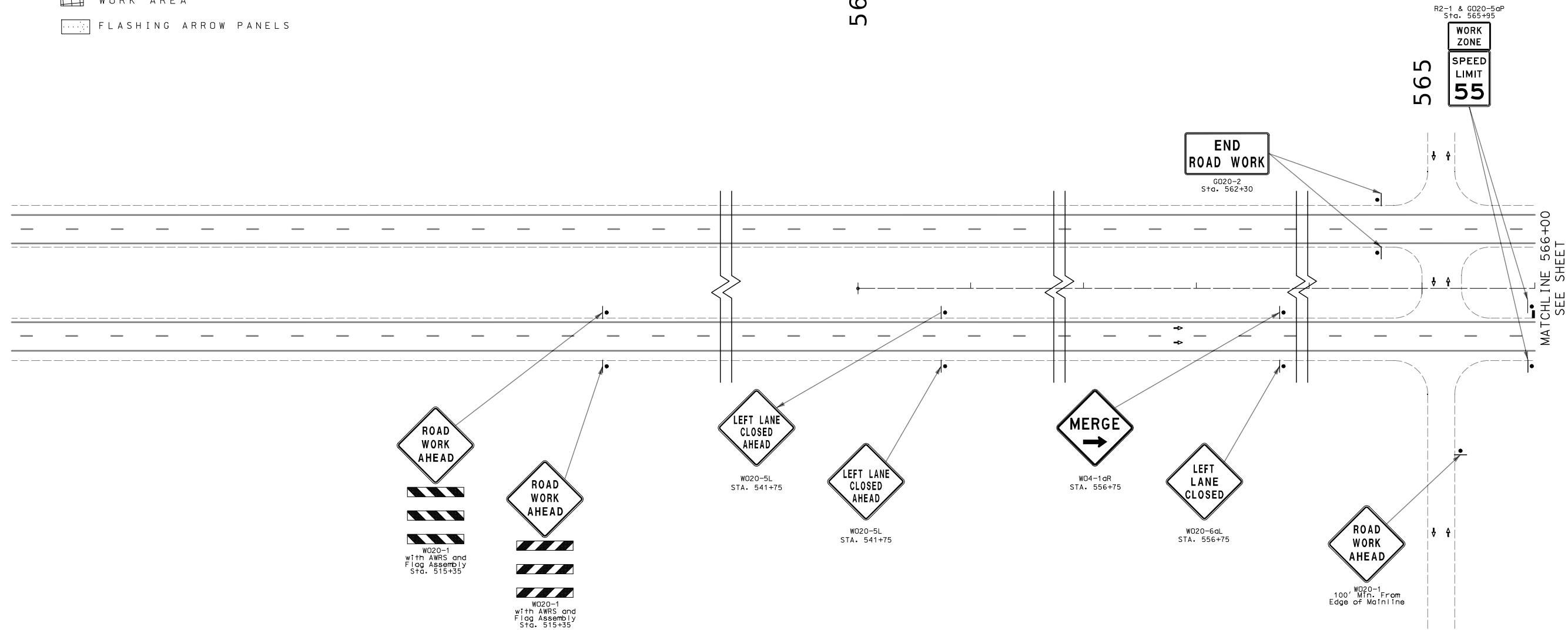
- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ▨ IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ▨ FLASHING ARROW PANELS

NOTE:
 INSTALLATION OF TEMPORARY GUARDRAIL DURING PHASE 1 NEXT TO OUTSIDE WB AND EB LANES SHALL BE ACCOMPLISHED USING OUTSIDE (RIGHT) LANE CLOSURES. SEE LANE CLOSURE DETAIL ON SHEET XX.

TRAFFIC CONTROL NOTE:
 TEMPORARILY COVER OR REMOVE ALL PERMANENT PAVEMENT MARKING, SIGNING, OR OTHER TRAFFIC CONTROL DEVICES THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SHOWN.



560



PHASE 1

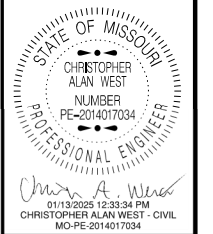
TRAFFIC:

- EB: SINGLE LANE SHIFTED TO OUTSIDE THROUGH CROSSOVER CONSTRUCTION
- EB: SINGLE LANE SHIFTED TO INSIDE/OUTSIDE THROUGH PAVEMENT MARKING AND GUARDRAIL CONSTRUCTION
- WB: SINGLE LANE SHIFTED TO OUTSIDE THROUGH CROSSOVER CONSTRUCTION

CONSTRUCTION:

- TEMPORARY CROSSOVER
- TEMPORARY PIPE AND DROP INLET UNDER TEMPORARY CROSSOVER
- TEMPORARY GUARDRAIL
- TEMPORARY PAVEMENT MARKING

TRAFFIC CONTROL
 PHASE 1
 SHEET 1 OF 7



DATE PREPARED 1/13/2025	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 14
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A2721, A2722 A2723, A2724	

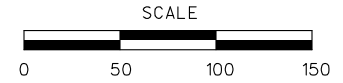
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

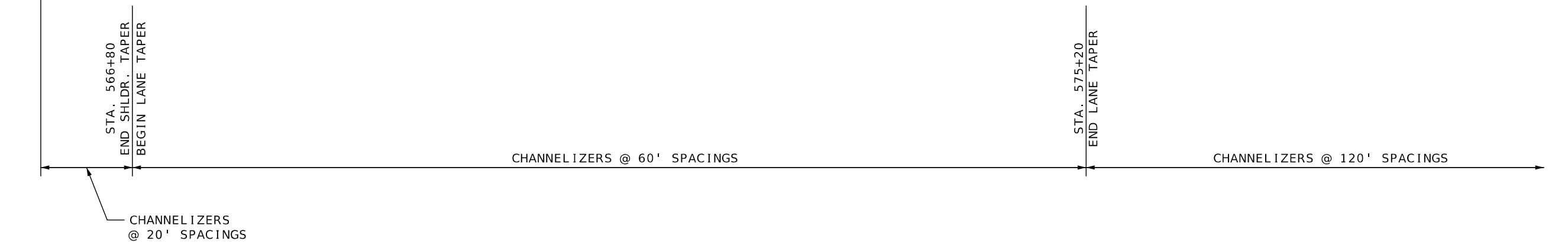
- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ⊘ IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⋯ FLASHING ARROW PANELS



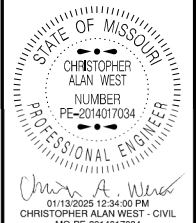
C1 CROSSOVER

MATCHLINE 566+00
SEE SHEET

MATCHLINE 579+50
SEE SHEET



TRAFFIC CONTROL
PHASE 1
SHEET 2 OF 7



DATE PREPARED
1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 15

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

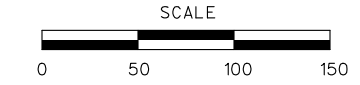
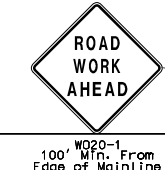
- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ⊘ IMPACT ATTENUATOR
- ↔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⊠ FLASHING ARROW PANELS

580

585

590

CHANNELIZERS @ 120' SPACINGS



MATCHLINE 579+50
SEE SHEET

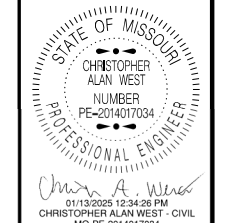
MATCHLINE 593+00
SEE SHEET

N86°59'36"E

S87°25'48"E

CHANNELIZERS @ 120' SPACINGS

C2 CROSSOVER



DATE PREPARED
1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 16

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- [BARRICADE
- ⊘ IMPACT ATTENUATOR
- ↖ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⋯ FLASHING ARROW PANELS



DATE PREPARED
1/12/2025

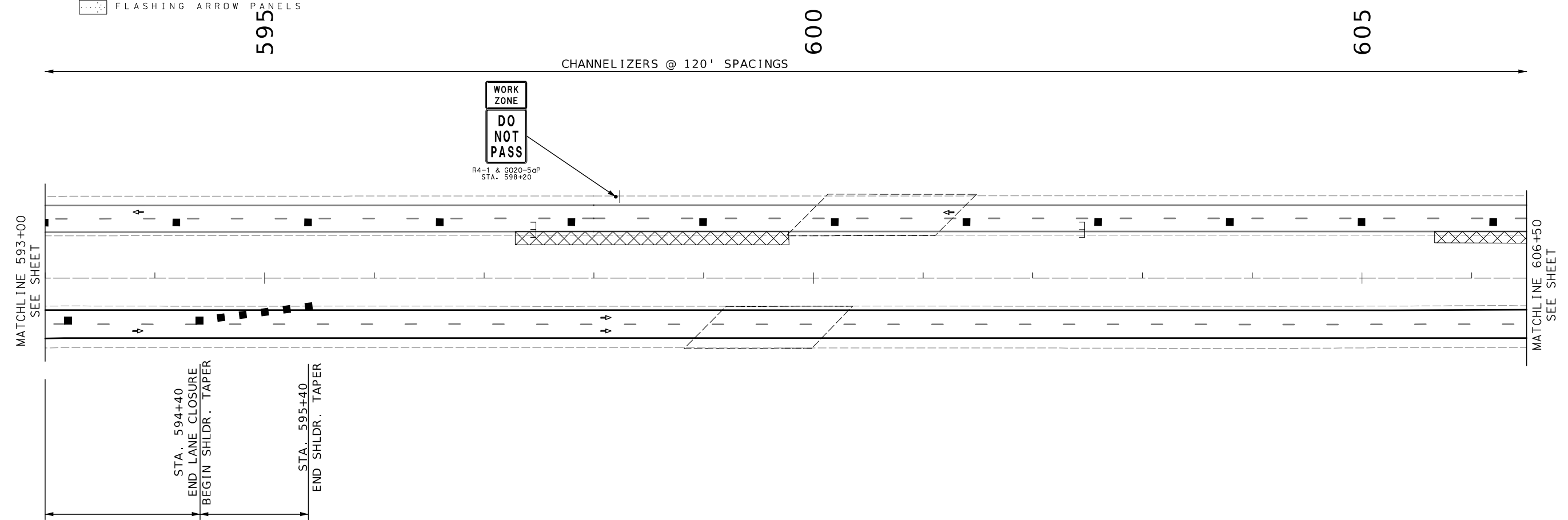
ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 17

COUNTY JACKSON

JOB NO. JKU0040
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A2721, A2722, A2723, A2724



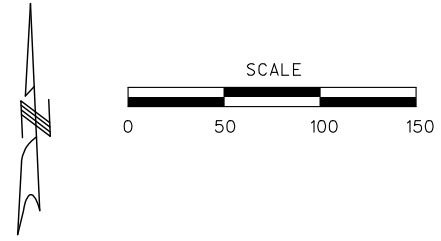
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- [BARRICADE
- ⊘ IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ◻ FLASHING ARROW PANELS

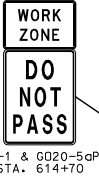


610

615

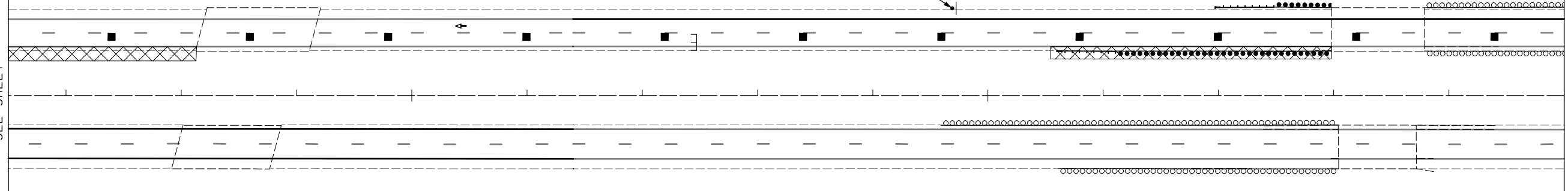
620

CHANNELIZERS @ 120' SPACINGS

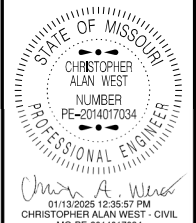


MATCHLINE 606+50
SEE SHEET

MATCHLINE 620+00
SEE SHEET



TRAFFIC CONTROL
PHASE 1
SHEET 5 OF 7



DATE PREPARED 1/12/2025	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 18
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A2721, A2722 A2723, A2724	

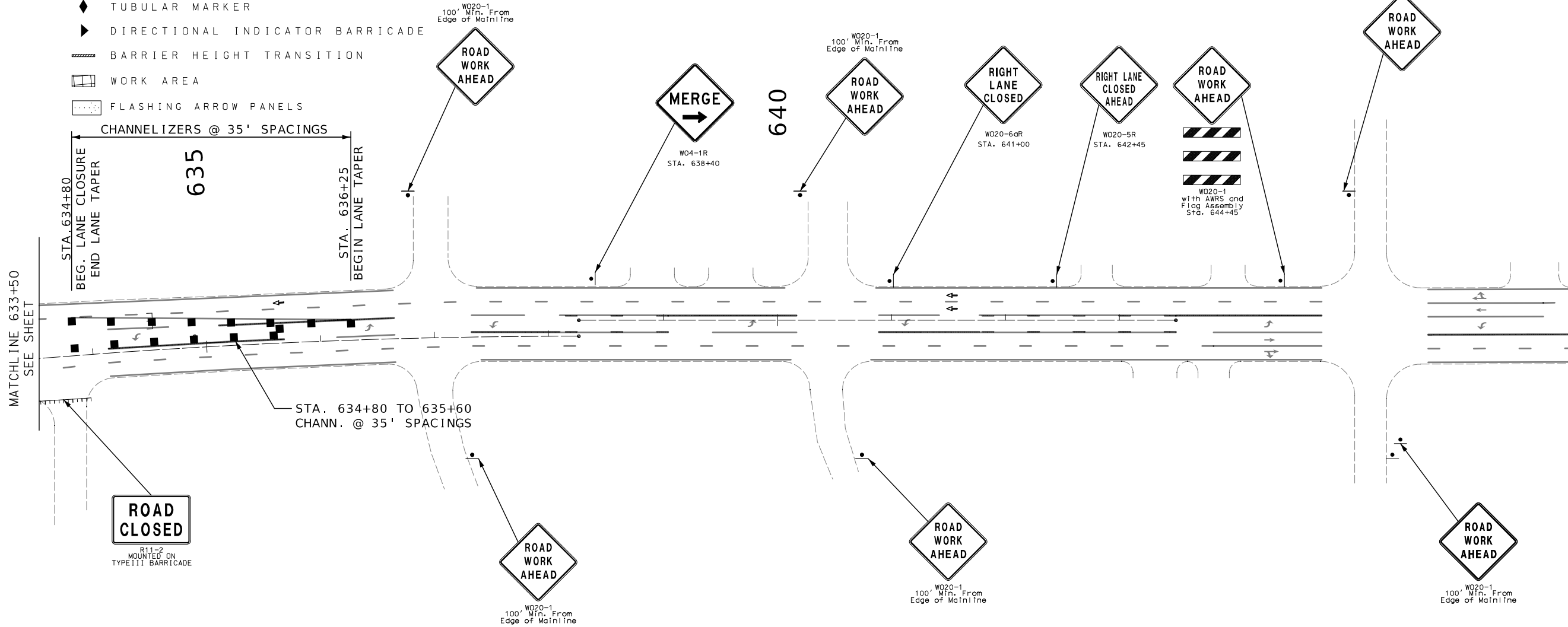
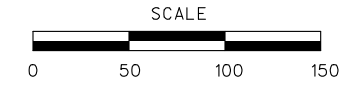
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ⌌ BARRICADE
- ⊘ IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⋯ FLASHING ARROW PANELS



DATE PREPARED
1/12/2025

ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 20

COUNTY JACKSON
JOB NO. JKU0040
CONTRACT ID.







PROJECT NO.
BRIDGE NO. A2721, A2722, A2723, A2724

DATE	DESCRIPTION

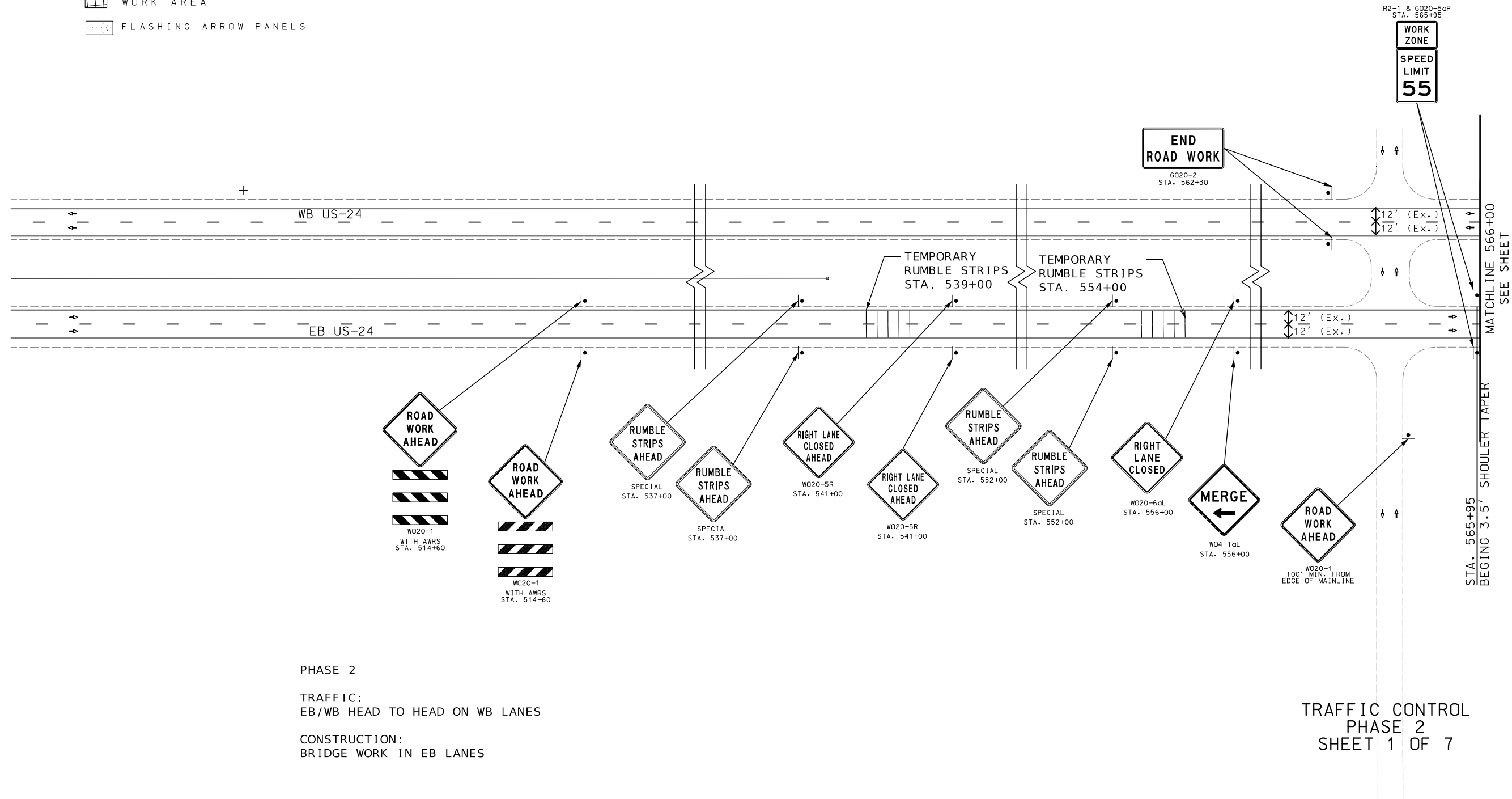
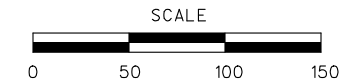
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND


-  SIGN (SINGLE SIDED)
-  CHANNELIZER
-  BARRICADE
-  IMPACT ATTENUATOR
-  LANE USE ARROW
-  TUBULAR MARKER
-  DIRECTIONAL INDICATOR BARRICADE
-  BARRIER HEIGHT TRANSITION
-  WORK AREA
-  FLASHING ARROW PANELS

TRAFFIC CONTROL NOTE:
 TEMPORARILY COVER OR REMOVE ALL PERMANENT PAVEMENT MARKING, SIGNING, OR OTHER TRAFFIC CONTROL DEVICES THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SHOWN.



PHASE 2
 TRAFFIC:
 EB/WB HEAD TO HEAD ON WB LANES
 CONSTRUCTION:
 BRIDGE WORK IN EB LANES

TRAFFIC CONTROL
 PHASE 2
 SHEET 1 OF 7




CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

DATE PREPARED: 1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 21

COUNTY: JACKSON
 JOB NO.: JKU0040
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.: A2721, A2722, A2723, A2724

DESCRIPTION	DATE

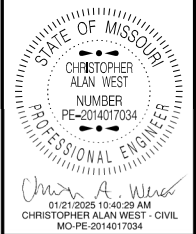
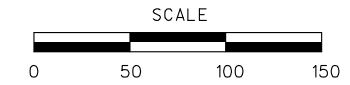


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ▩ IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ▭ FLASHING ARROW PANELS

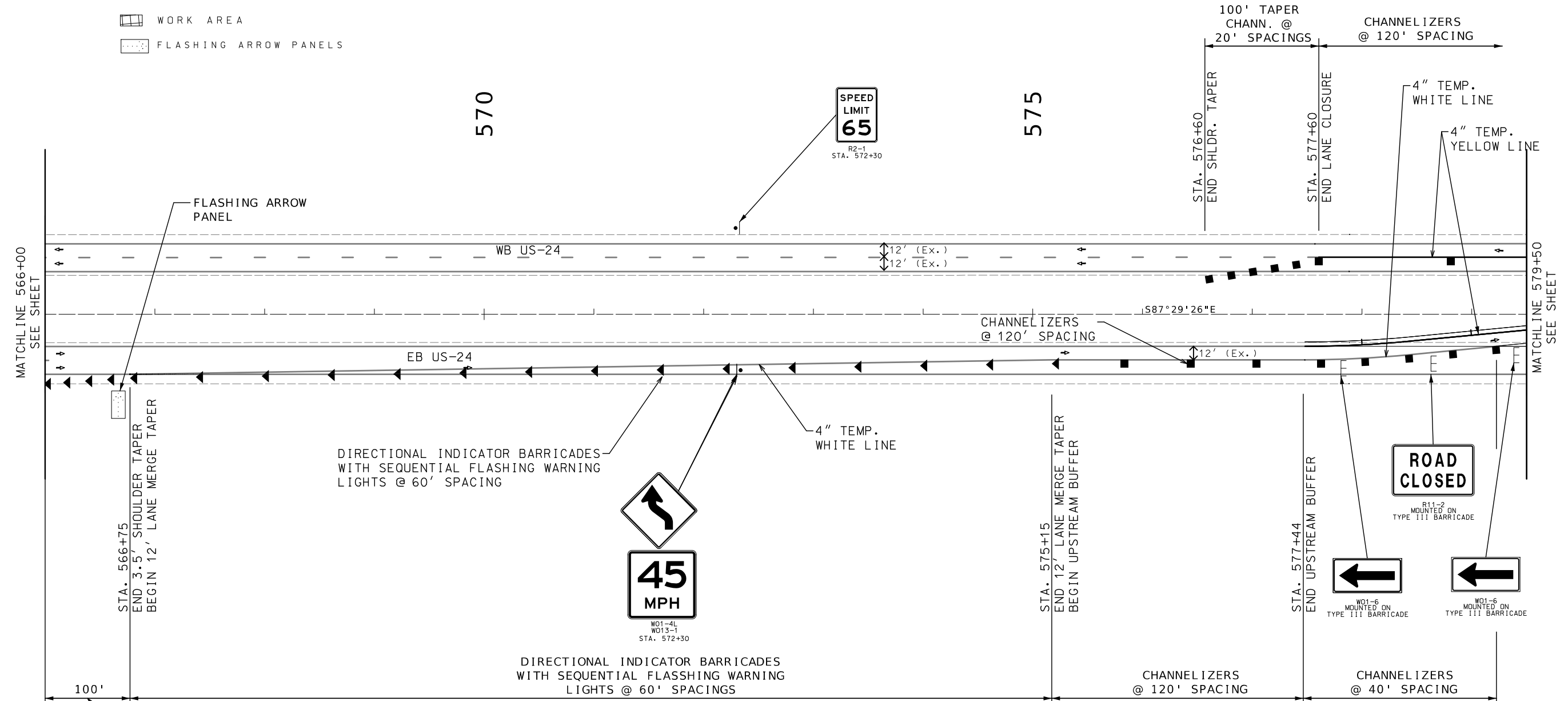


DATE PREPARED	
1/21/2025	
ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
KC	22
COUNTY	
JACKSON	
JOB NO.	
JKU0040	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO.	
A2721, A2722 A2723, A2724	
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

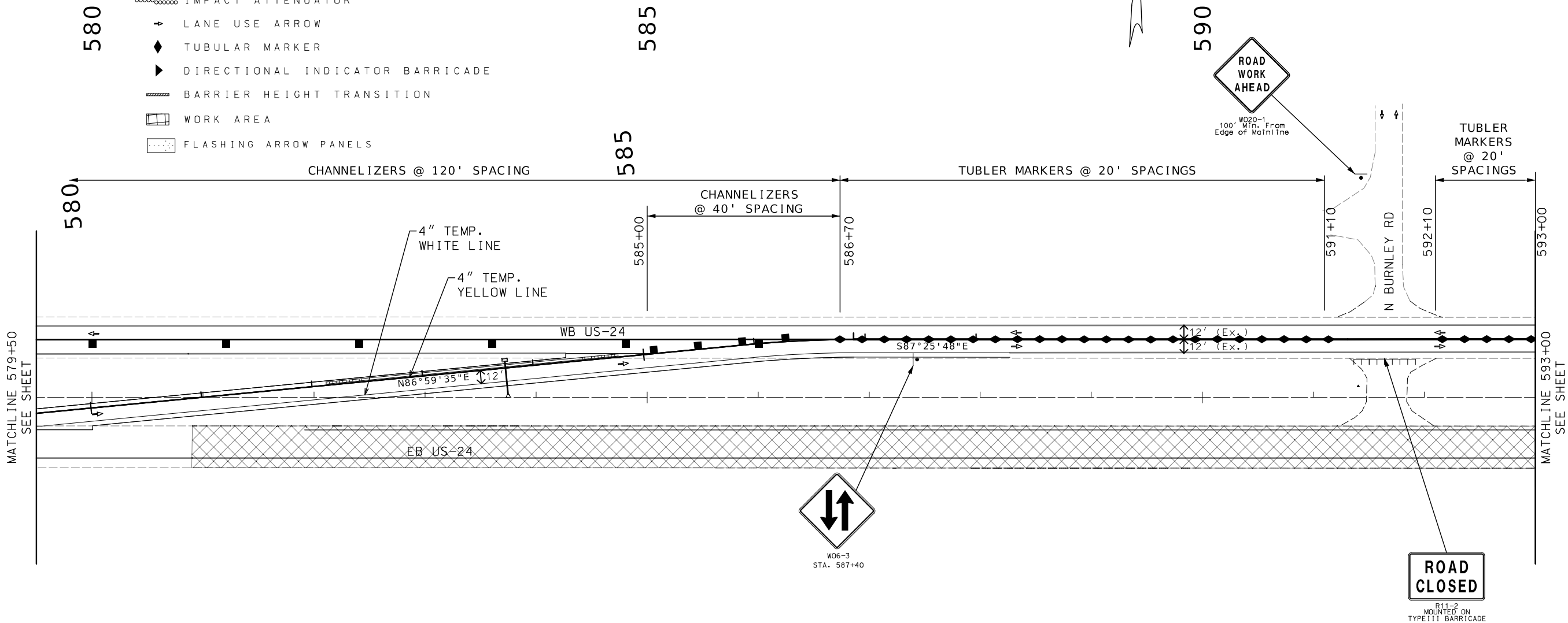
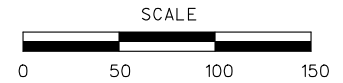
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL
PHASE 2
SHEET 2 OF 7

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ▨ IMPACT ATTENUATOR
- ↖ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▨ WORK AREA
- ⋯ FLASHING ARROW PANELS



CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

DATE PREPARED
1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 23

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A2721, A2722
 A2723, A2724

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ⊞ IMPACT ATTENUATOR
- ↔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⊞ FLASHING ARROW PANELS



DATE PREPARED
1/12/2025

ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 24

COUNTY JACKSON

JOB NO. JKU0040

CONTRACT ID.

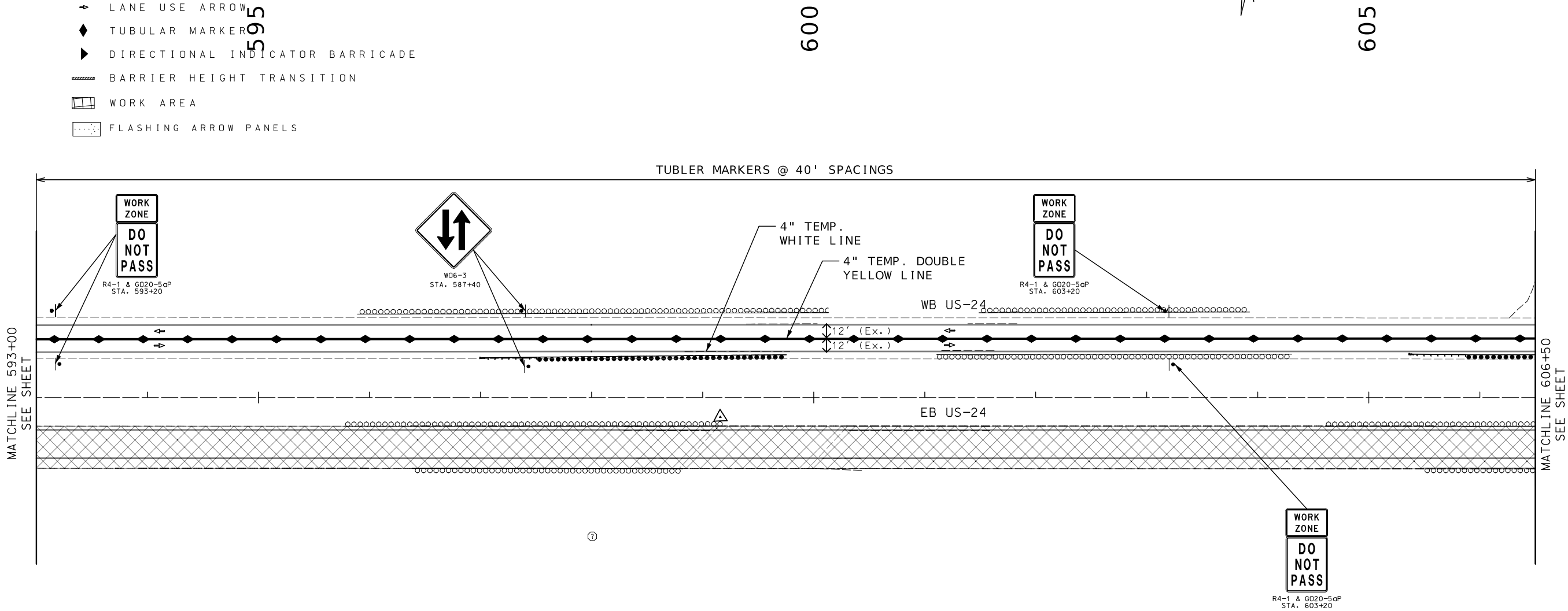
PROJECT NO.

BRIDGE NO. A2721, A2722, A2723, A2724

DATE	DESCRIPTION

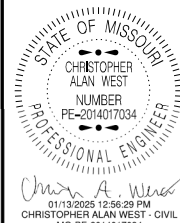
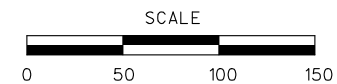
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- BARRIER HEIGHT TRANSITION
- WORK AREA
- FLASHING ARROW PANELS



DATE PREPARED
1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 25

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

610

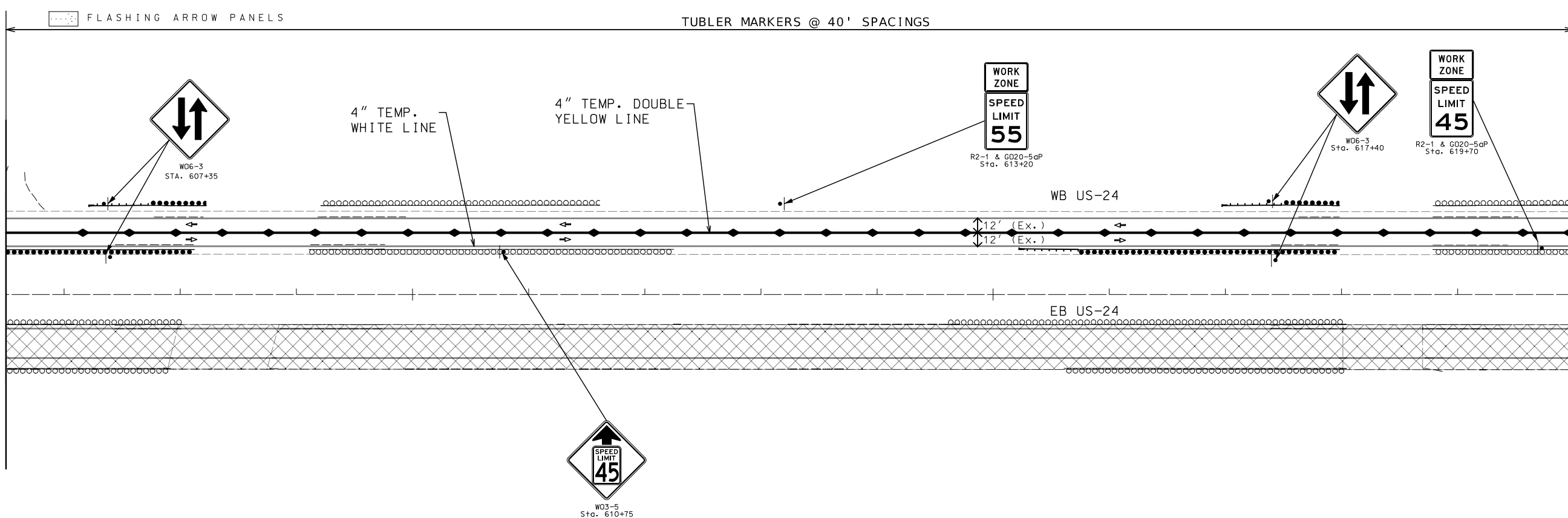
615

620

TUBLER MARKERS @ 40' SPACINGS

MATCHLINE 607+50
SEE SHEET

MATCHLINE 620+00
SEE SHEET



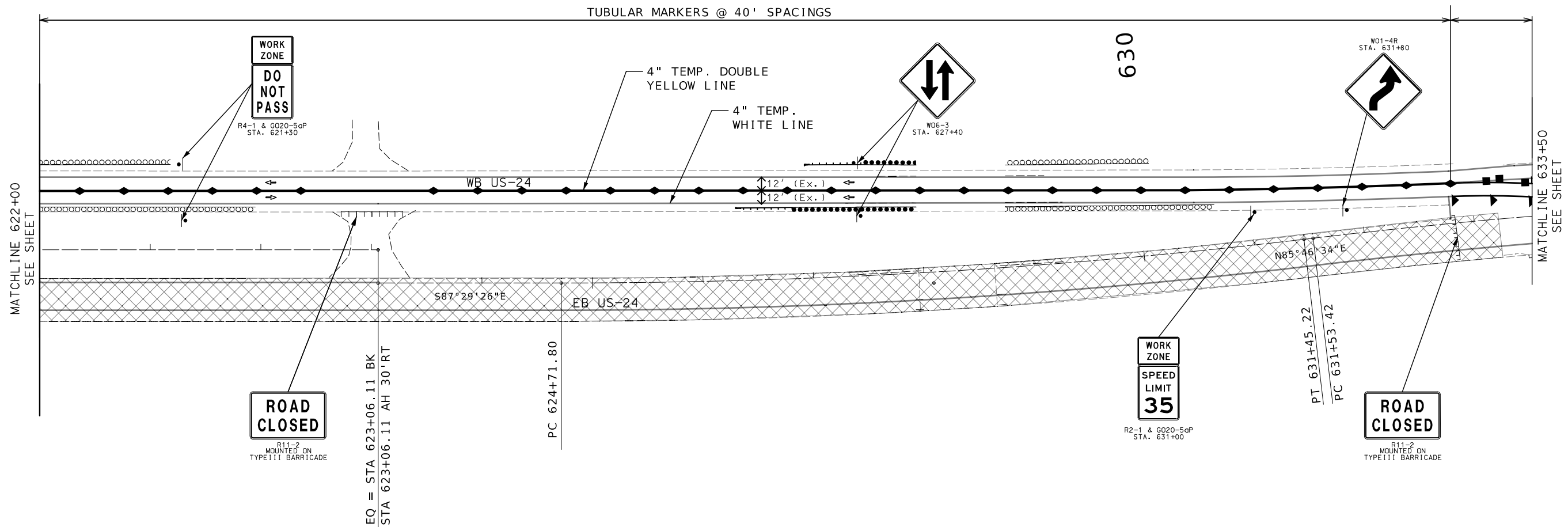
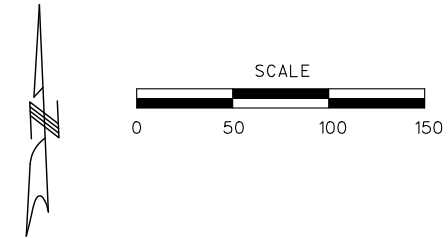
TRAFFIC CONTROL
PHASE 2
SHEET 5 OF 7

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ⌈ BARRICADE
- ○ ○ ○ ○ IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⋯ FLASHING ARROW PANELS

U
Z
U

625



DATE PREPARED 1/12/2025	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 26
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO. A2721, A2722 A2723, A2724	
DATE	DESCRIPTION

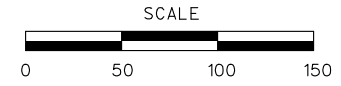
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

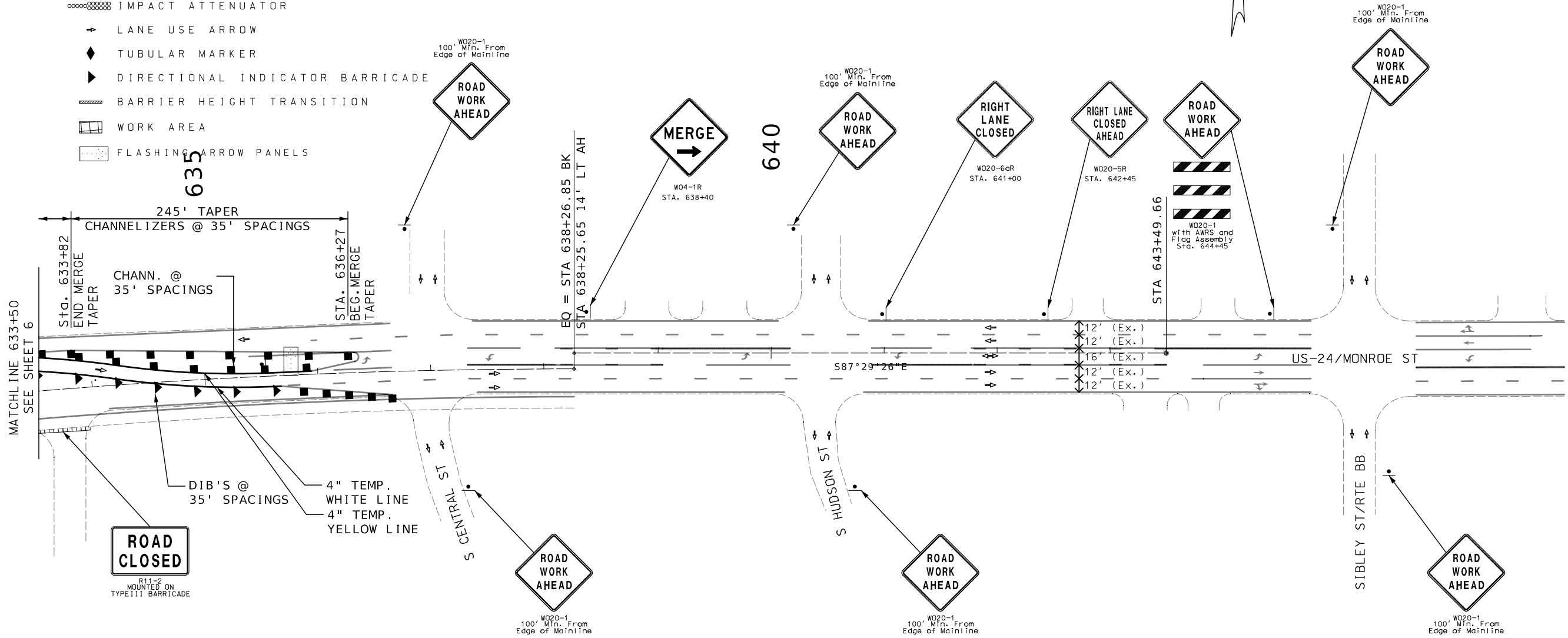
TRAFFIC CONTROL
PHASE 1
SHEET 6 OF 7

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ┌ BARRICADE
- ⊘ IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⊡ FLASHING ARROW PANELS



STATE OF MISSOURI
CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER
 DATE PREPARED 1/12/2025
 ROUTE 24 STATE MO
 DISTRICT KC SHEET NO. 27
 COUNTY JACKSON
 JOB NO. JKU0040
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A2721, A2722, A2723, A2724



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
 PHASE 2
 SHEET 7 OF 7

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ▨ IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ▭ FLASHING ARROW PANELS

NOTE:
 INSTALLATION OF TEMPORARY GUARDRAIL DURING PHASE 1 NEXT TO OUTSIDE WB AND EB LANES SHALL BE ACCOMPLISHED USING OUTSIDE (RIGHT) LANE CLOSURES. SEE LANE CLOSURE DETAIL ON SHEET XX.

TRAFFIC CONTROL NOTE:
 TEMPORARILY COVER OR REMOVE ALL PERMANENT PAVEMENT MARKING, SIGNING, OR OTHER TRAFFIC CONTROL DEVICES THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SHOWN.



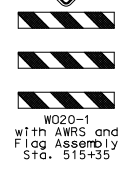
560

565
 R2-1 & G020-5aP
 Sta. 565+95
 WORK ZONE
 SPEED LIMIT
 55

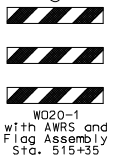
END ROAD WORK
 G020-2
 Sta. 562+30

MATCHLINE 566+00
 SEE SHEET

ROAD WORK AHEAD



ROAD WORK AHEAD



LEFT LANE CLOSED AHEAD
 W020-5L
 STA. 541+75

LEFT LANE CLOSED AHEAD
 W020-5L
 STA. 541+75

MERGE
 W04-1aR
 STA. 556+75

LEFT LANE CLOSED
 W020-6aL
 STA. 556+75

ROAD WORK AHEAD
 W020-1
 100' Mtn. From Edge of Mainline

PHASE 1

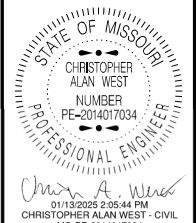
TRAFFIC:

- EB: SINGLE LANE SHIFTED TO OUTSIDE THROUGH REMOVAL OF CROSSOVER
- EB: SINGLE LANE SHIFTED TO INSIDE/OUTSIDE THROUGH REMOVAL OF TEMPORARY PAVEMENT MARKING AND GUARDRAIL
- WB: SINGLE LANE SHIFTED TO OUTSIDE THROUGH REMOVAL OF CROSSOVER

CONSTRUCTION:

- REMOVAL OF TEMPORARY CROSSOVER
- REMOVAL OF TEMPORARY PIPE AND DROP INLET UNDER TEMPORARY CROSSOVER
- REMOVAL OF TEMPORARY GUARDRAIL
- REMOVAL OF TEMPORARY PAVEMENT MARKING

TRAFFIC CONTROL
 PHASE 3
 SHEET 1 OF 7



DATE PREPARED 1/12/2025	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 28
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	

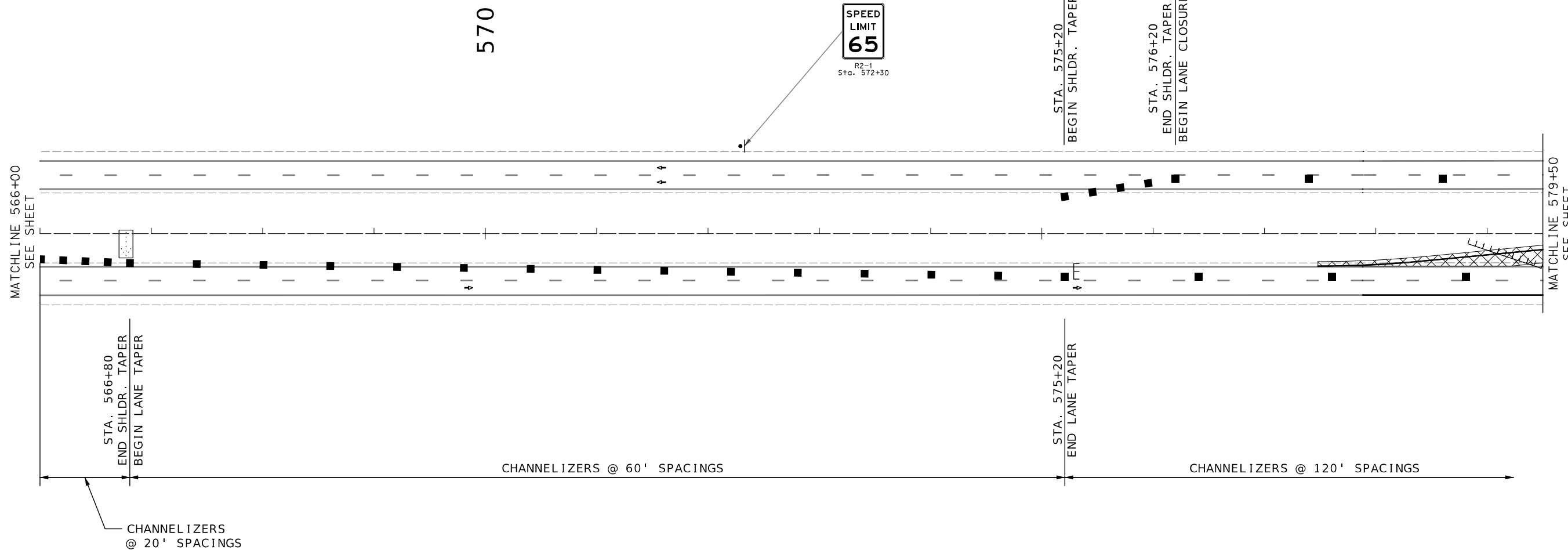
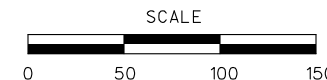
BRIDGE NO. A2721, A2722 A2723, A2724
DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ⊘ IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⊠ FLASHING ARROW PANELS

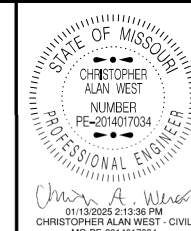


C1 CROSSOVER

MATCHLINE 566+00
SEE SHEET

MATCHLINE 579+50
SEE SHEET

TRAFFIC CONTROL
PHASE 3
SHEET 2 OF 7



DATE PREPARED
1/12/2025

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 29
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO.	
A2721, A2722	A2723, A2724
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- ▨ IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ◻ FLASHING ARROW PANELS

580

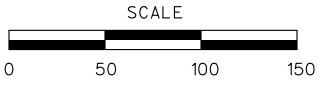
585

CHANNELIZERS @ 120' SPACINGS

590

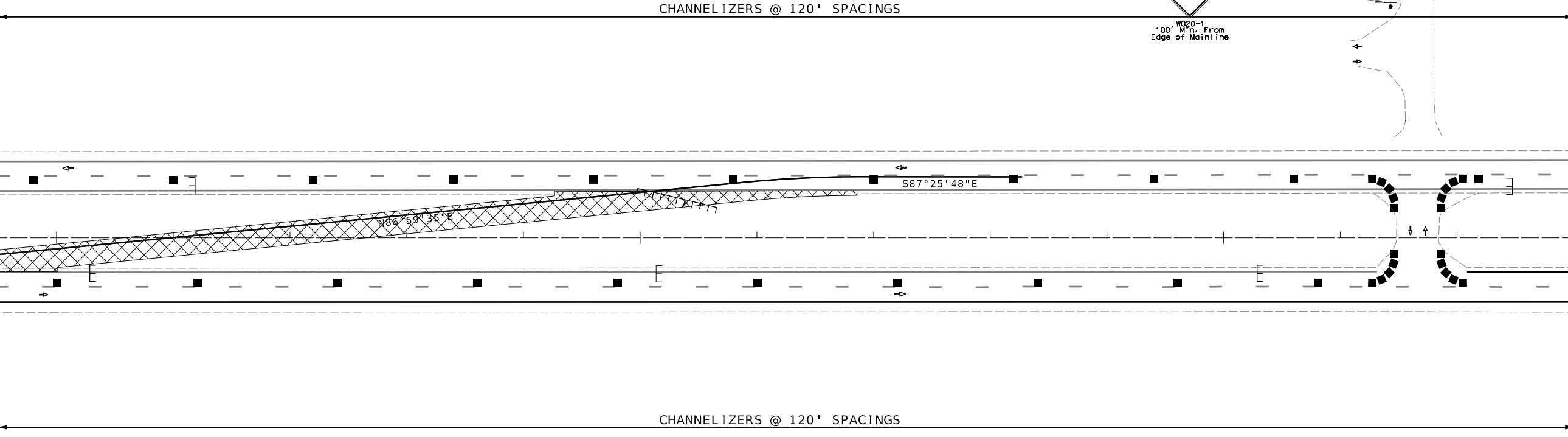


W220-1
100' Min. From
Edge of Mainline



MATCHLINE 579+50
SEE SHEET

MATCHLINE 593+00
SEE SHEET



CHANNELIZERS @ 120' SPACINGS

C2 CROSSOVER



DATE PREPARED
1/12/2025

ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 30

COUNTY JACKSON
JOB NO. JKU0040
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

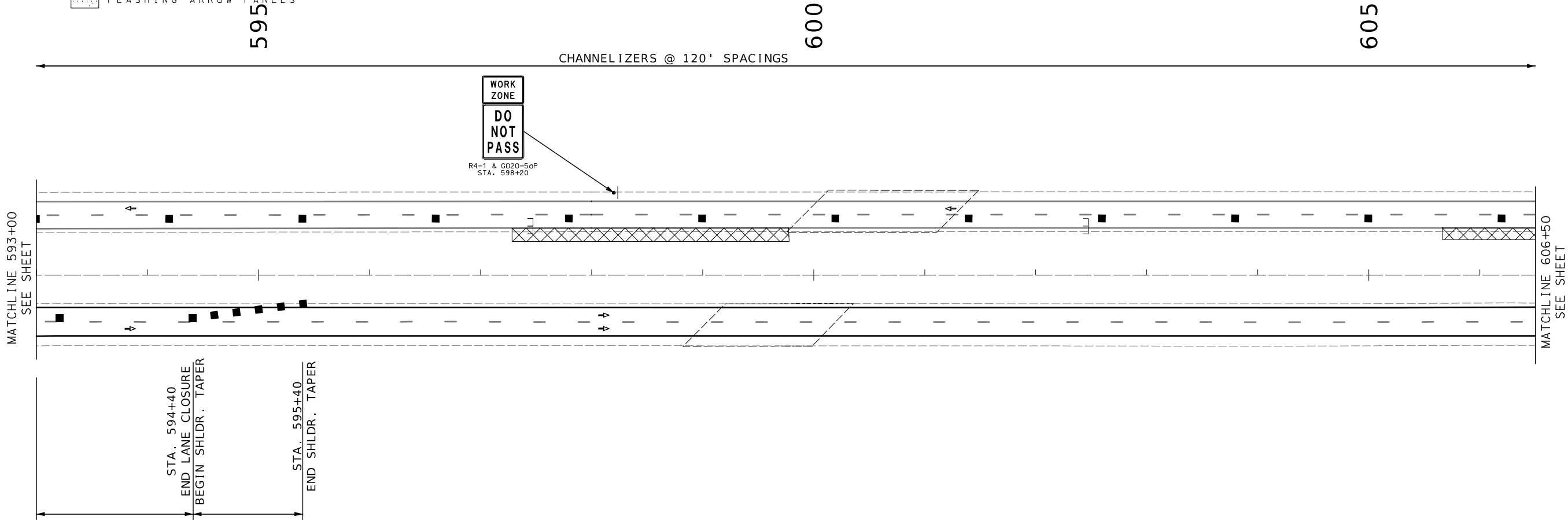
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- [BARRICADE
- ⊘ IMPACT ATTENUATOR
- ↖ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⋯ FLASHING ARROW PANELS



DATE PREPARED
1/12/2025

ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
KC	31

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

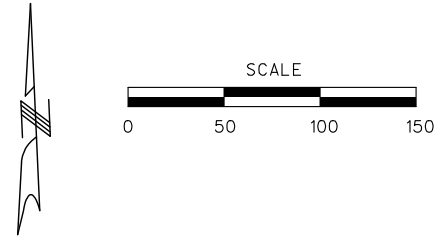
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
PHASE 3
SHEET 4 OF 7

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- [BARRICADE
- ⊘ IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ◻ FLASHING ARROW PANELS



610

615

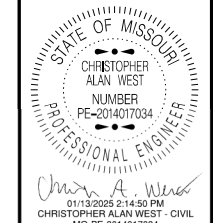
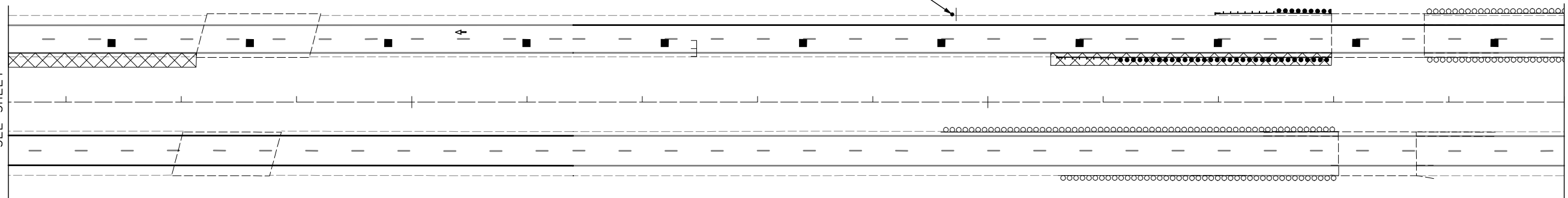
620

CHANNELIZERS @ 120' SPACINGS



MATCHLINE 606+50
SEE SHEET

MATCHLINE 620+00
SEE SHEET



DATE PREPARED 1/12/2025	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 32
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A2721, A2722 A2723, A2724	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
PHASE 3
SHEET 5 OF 7

TRAFFIC CONTROL LEGEND

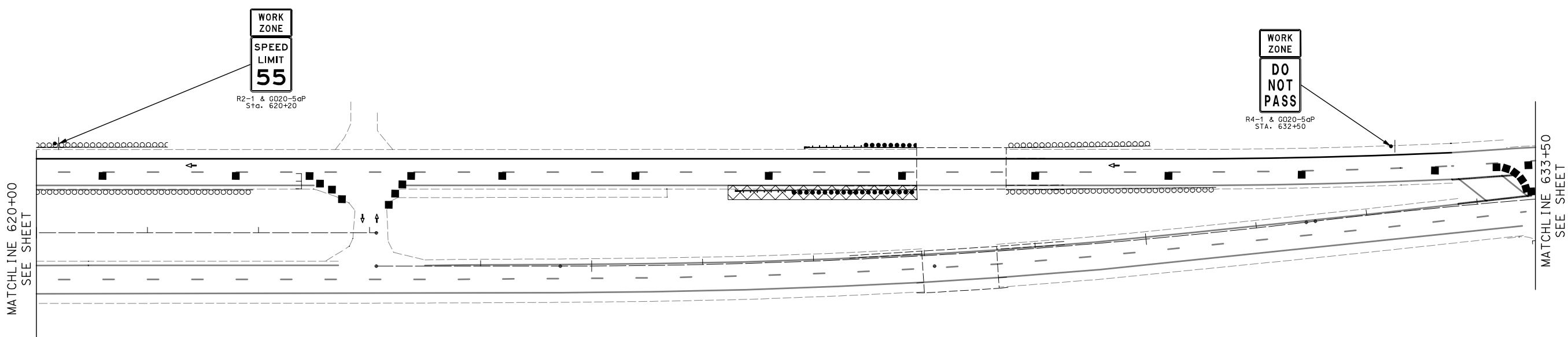
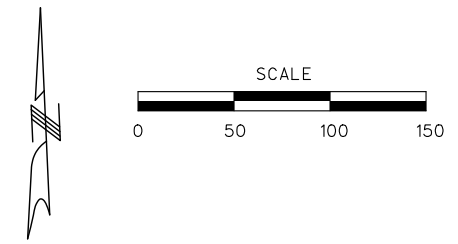
- SIGN (SINGLE SIDED)
- CHANNELIZER
- E BARRICADE
- IMPACT ATTENUATOR
- ➔ LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▨ BARRIER HEIGHT TRANSITION
- U WORK AREA
- ⋯ FLASHING ARROW PANELS

U
Z
U

625

630

CHANNELIZERS @ 120' SPACINGS



MATCHLINE 620+00
SEE SHEET

MATCHLINE 633+50
SEE SHEET



Christopher Alan West
01/13/2025 2:18:19 PM
CHRISTOPHER ALAN WEST - CIVIL
MO-PE-2014017034

DATE PREPARED	
1/12/2025	
ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
KC	33
COUNTY	
JACKSON	
JOB NO.	
JKU0040	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

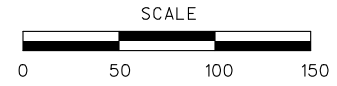
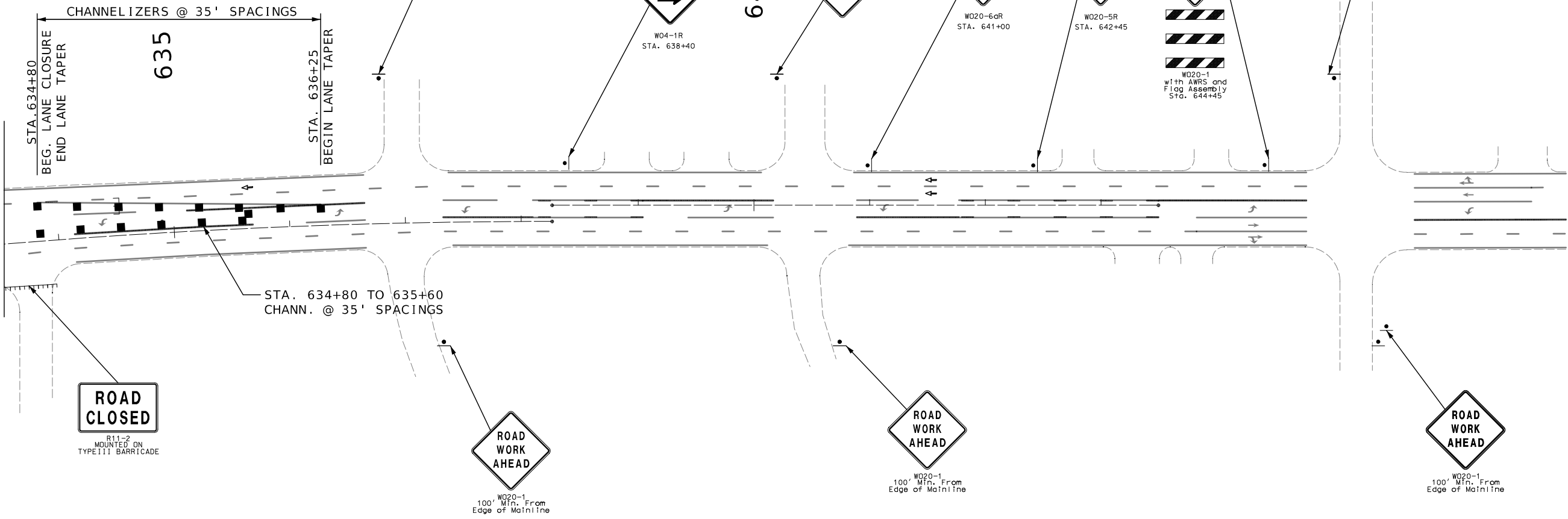
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
PHASE 3
SHEET 6 OF 7

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ⌌ BARRICADE
- ⊘ IMPACT ATTENUATOR
- LANE USE ARROW
- ◆ TUBULAR MARKER
- ▶ DIRECTIONAL INDICATOR BARRICADE
- ▬ BARRIER HEIGHT TRANSITION
- ▭ WORK AREA
- ⊠ FLASHING ARROW PANELS



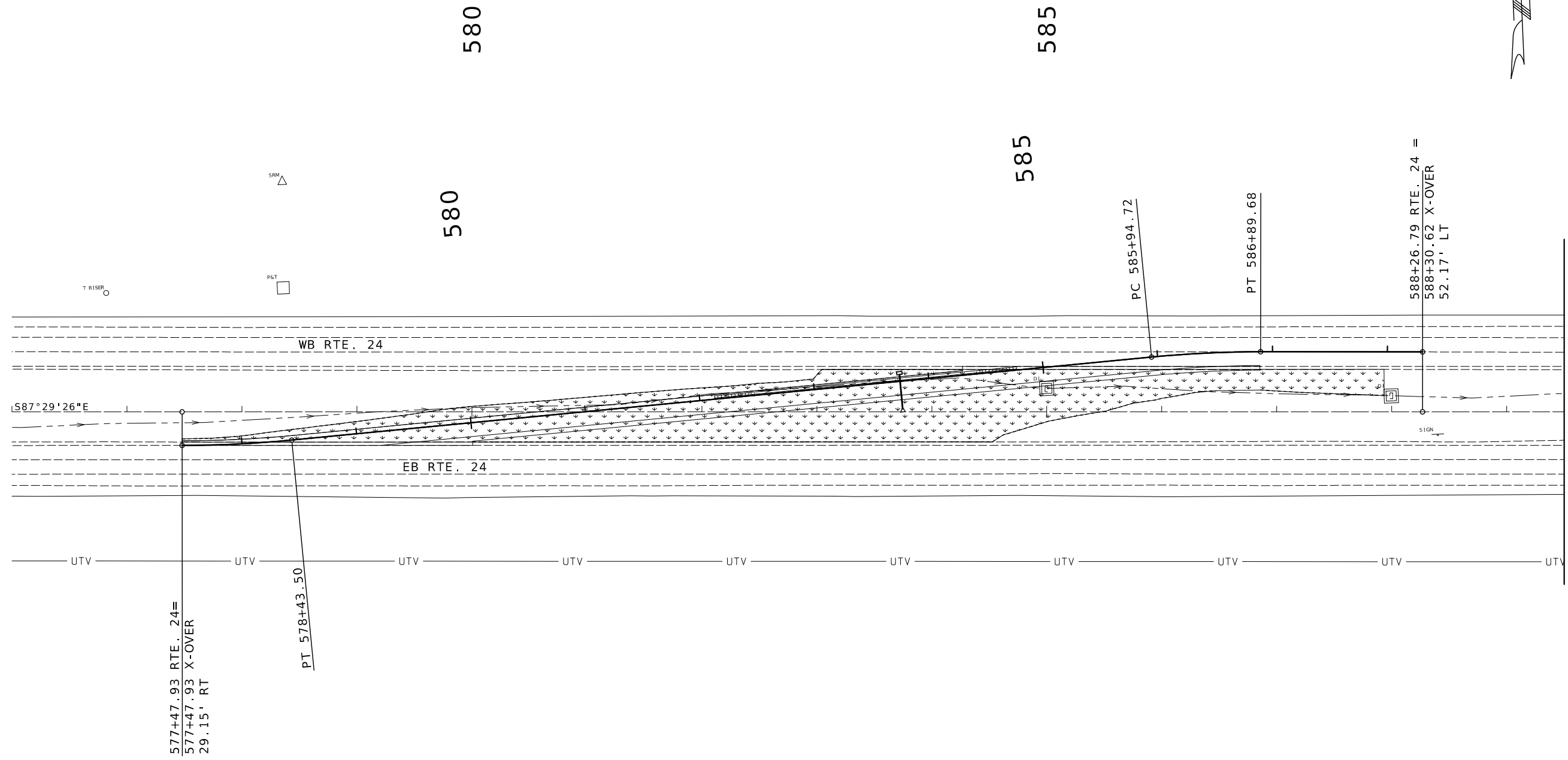
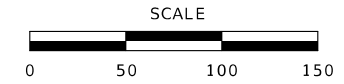
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 ROUTE: 24 STATE: MO
 DISTRICT: KC SHEET NO.: 34
 COUNTY: JACKSON
 JOB NO.: JKU0040
 CONTRACT ID.:
 PROJECT NO.:

BRIDGE NO.: A2721, A2722, A2723, A2724

DESCRIPTION	DATE

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

LEGEND	
	SEEDING & EROSION CONTROL BLANKET



DATE PREPARED
1/12/2025

ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
KC	36

COUNTY
JACKSON

JOB NO.
JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2721, A2722
A2723, A2724

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PERMANENT
EROSION CONTROL
SHEET 1 OF 1



01/13/2025 8:14:50 AM



01/13/2025 8:14:50 AM



CHRISTOPHER ALAN WEST - CIVIL
MO-PE-2014017034

DATE PREPARED

1/12/2025

ROUTE STATE

24 MO

DISTRICT SHEET NO.

KC 37

COUNTY

JACKSON

JOB NO.

JKU0040

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A2721, A2722

A2723, A2724

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

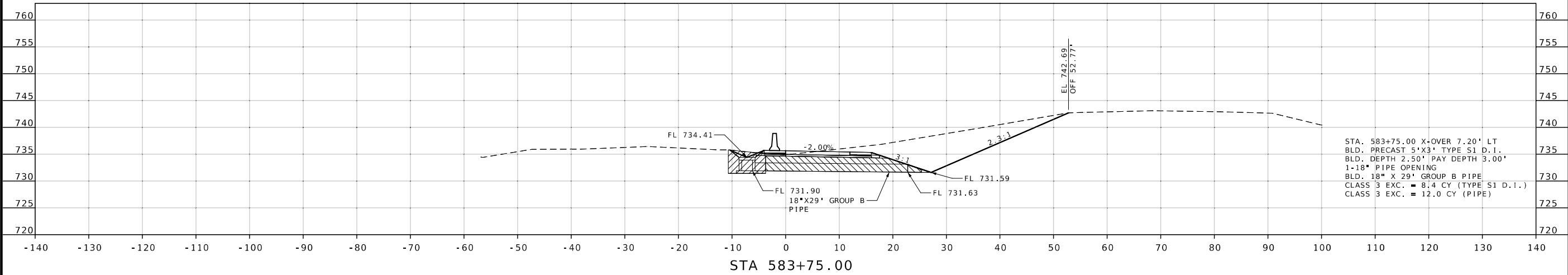
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

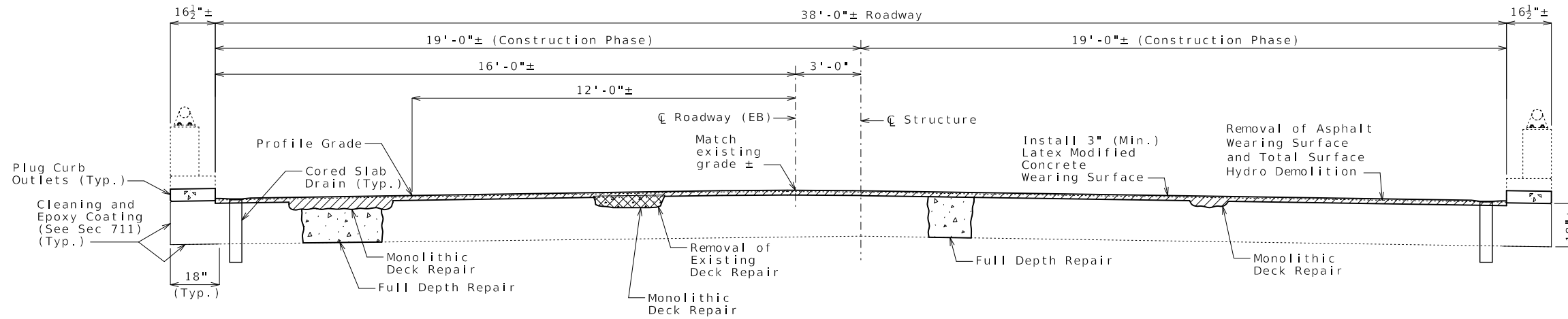
COMMISSION

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



U.I.P. AND REHABILITATE EXISTING (37.5'-37.5'-37.5') CONTINUOUS CONCRETE SOLID SLAB SPANS (SKEW: 45° LA)



General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
 Load Posting S-C3: Weight Limit 50 tons (to be maintained)
 Bridge Deck Rating = 5

Design Loading:

HS20-44 (1969 & New Construction)

Design Unit Stresses:

Class B-1 Concrete (Full Depth Repair) $f'c = 4,000$ psi
 Reinforcing Steel (ASTM A615 Grade 60) $f_y = 60,000$ psi

Miscellaneous:

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

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

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

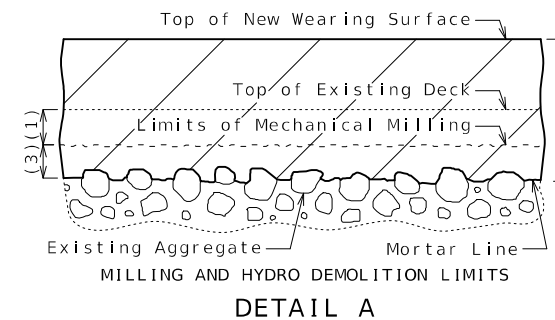
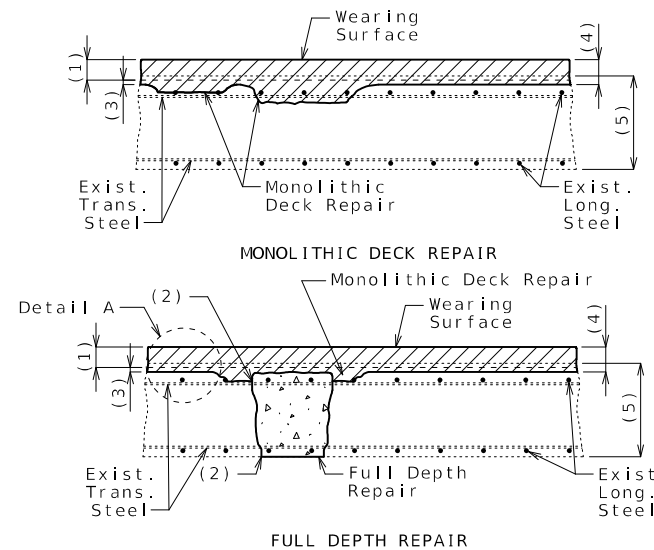
In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in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

Traffic Handling:

Structure to be closed during construction. See roadway plans for traffic control.

TYPICAL SECTION THRU EXISTING DECK

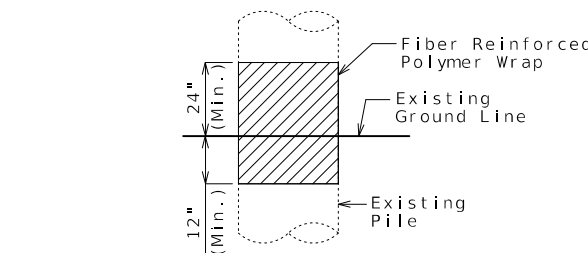
Construction phases may be completed in any order, but only one at a time. All repairs in one phase shall be completed and allowed to cure before starting the next phase.



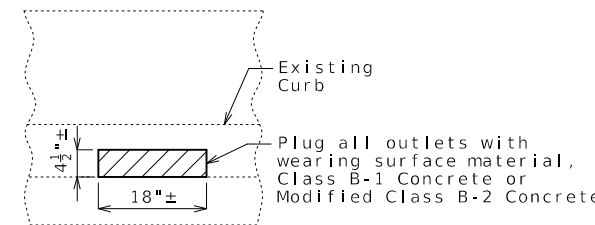
- (1) Removal of existing 2"± asphalt wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition 1/2" minimum of sound concrete, and all unsound concrete.
- (4) 3" minimum Latex Modified concrete wearing surface
- (5) Original depth minus previous scarification

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	490
Removal of Asphalt Wearing Surface	sq. foot	4410
Removal of Existing Deck Repair	sq. foot	460
* Supplementary Wearing Surface Material	cu. yard	5
Latex Modified Concrete Wearing Surface	sq. yard	490
Diamond Grinding	sq. yard	490
Full Depth Repair	sq. foot	200
Cleaning and Epoxy Coating	sq. foot	696
Fiber Reinforced Polymer Wrap	sq. foot	188
Plugging Existing Curb Outlets	each	36
Cored Slab Drains	each	18

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.



TYPICAL PART ELEVATION OF PILE SHOWING FIBER REINFORCED POLYMER WRAP AT INT. BENTS NO. 2 & 3



PART ELEVATION SHOWING PLUGGING OF CURB OUTLETS

REPAIRS TO BRIDGE: ROUTE 24 EB OVER FIRE PRAIRIE CREEK

ROUTE 24 EB FROM ROUTE 7 TO ROUTE BB
 ABOUT 0.8 MILE WEST OF ROUTE BB
 BEGINNING STATION 599+04.22± (Match Existing)



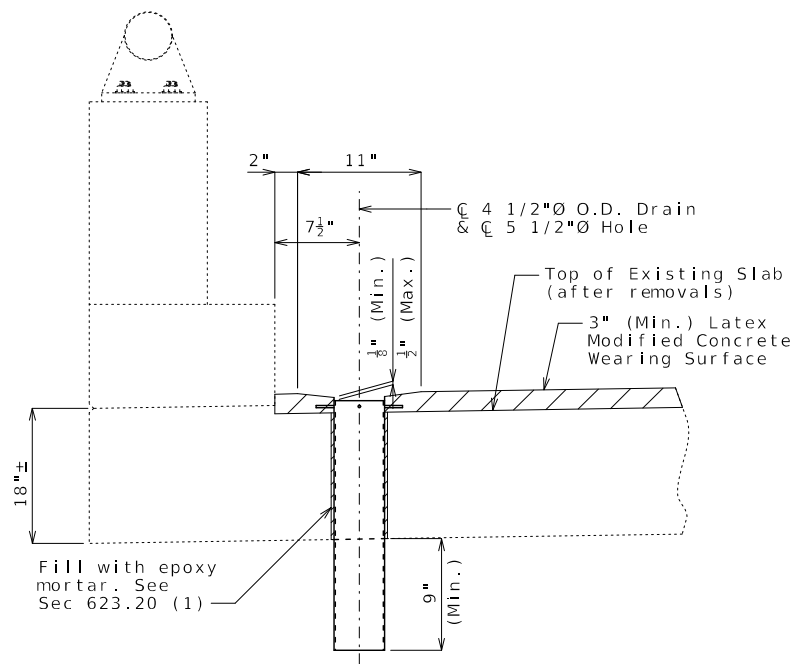
DATE PREPARED
 12/13/2024
 12/13/2024 8:24:50 AM
 TIMOTHY D. LEAF - CIVIL
 MO-PE-201200778

ROUTE 24 STATE MO
 DISTRICT BR SHEET NO. 1
 COUNTY JACKSON
 JOB NO. JKU0040
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO. A27213

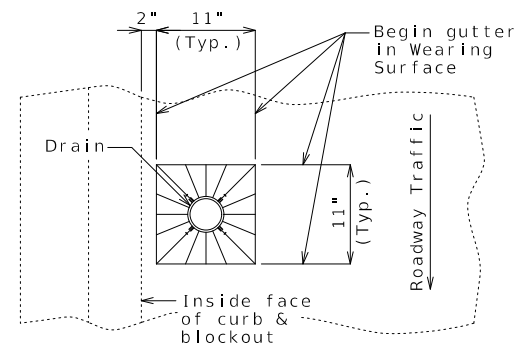
DESCRIPTION	DATE

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

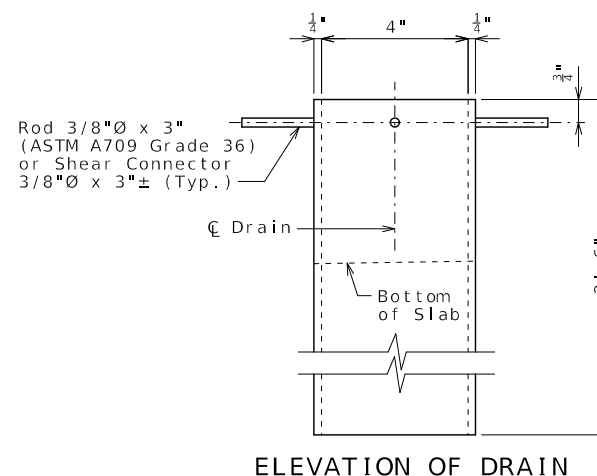


(1) Use backer rod around drain @ bottom of slab and epoxy inject from the top.

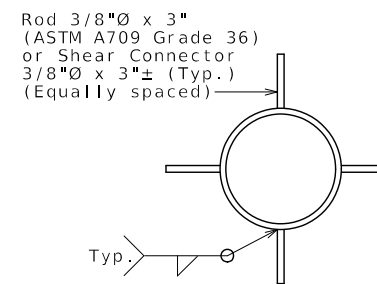
PART SECTION NEAR DRAIN



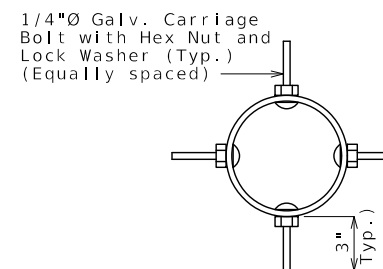
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF DRAIN



PLAN OF OPTIONAL FRP DRAIN

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

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

The 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 M232 (ASTM A153), Class C.

All 1/2-inch diameter bolts shall be ASTM A307, except as noted.

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

Cost of cored slab drains, complete in place, will be considered completely covered by the contract unit price for Cored Slab Drain per each.

Holes for slab drains shall be cored. Percussion drilling will not be permitted.

Slab drain locations may be shifted the minimum extent necessary to avoid slab reinforcement.

Cored slab drains shall be placed vertically.

For details of plugging existing curb outlets, see Sheet No. 1.

Notes for Steel Drain:

Slab drains shall be fabricated from 1/4-inch structural steel tubing ASTM A500 or A501.

The drains shall be galvanized in accordance with ASTM A123.

Drains shall be inserted through slab such that damage to galvanized coating is minimized.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

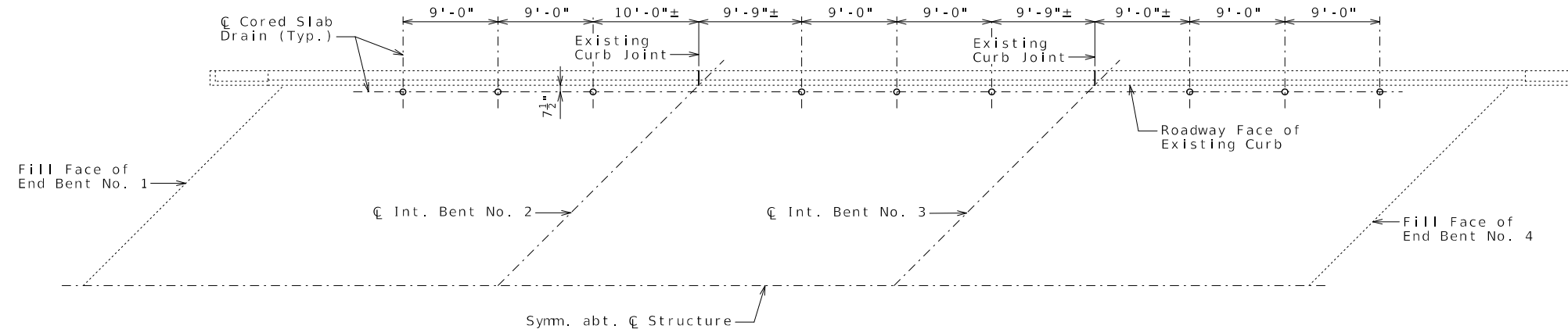
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance. Care shall be taken to avoid damage to exterior coating during installation.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

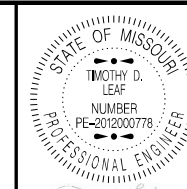
The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drains shall be as recommended by the manufacturer to ensure a smooth, chip-free cut.



PART PLAN SHOWING CORED SLAB DRAIN LOCATIONS

CORED SLAB DRAINS



DATE PREPARED
12/13/2024

ROUTE 24 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY JACKSON

JOB NO. JKU0040

CONTRACT ID.

PROJECT NO.

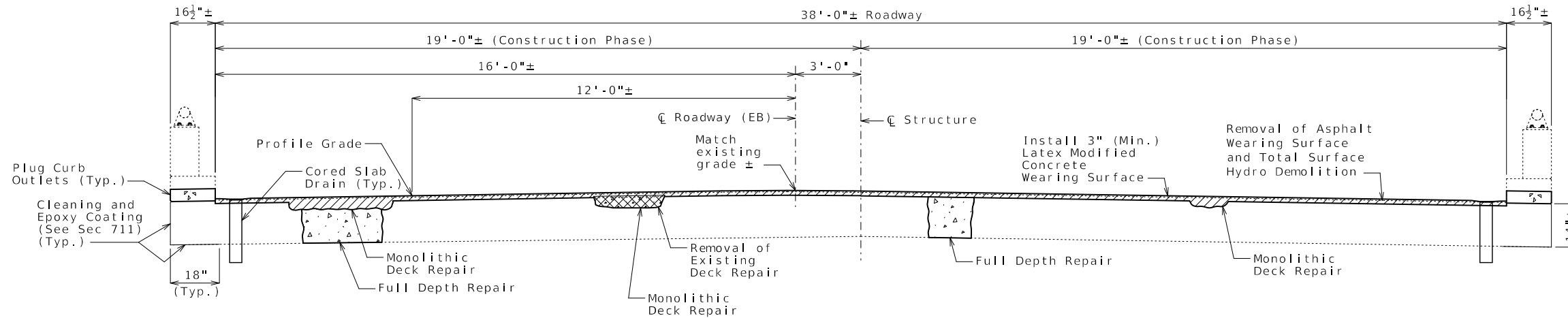
BRIDGE NO. A27213

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

U.I.P. AND REHABILITATE EXISTING (27.5'-27.5'-27.5') CONTINUOUS CONCRETE SOLID SLAB SPANS (SKEW: 15° LA)



General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
 Load Posting S-C3: Weight Limit 50 tons (to be maintained)
 Bridge Deck Rating = 6

Design Loading:

HS20-44 (1969 & New Construction)

Design Unit Stresses:

Class B-1 Concrete (Full Depth Repair) $f'_c = 4,000$ psi
 Reinforcing Steel (ASTM A615 Grade 60) $f_y = 60,000$ psi

Miscellaneous:

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

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

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

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

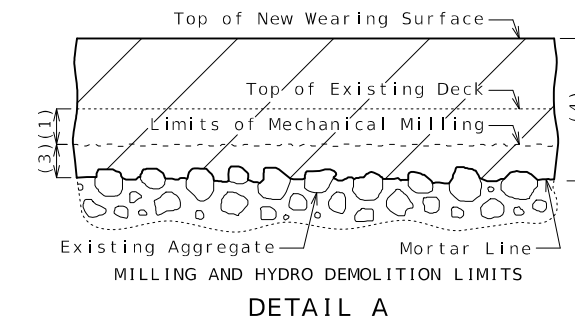
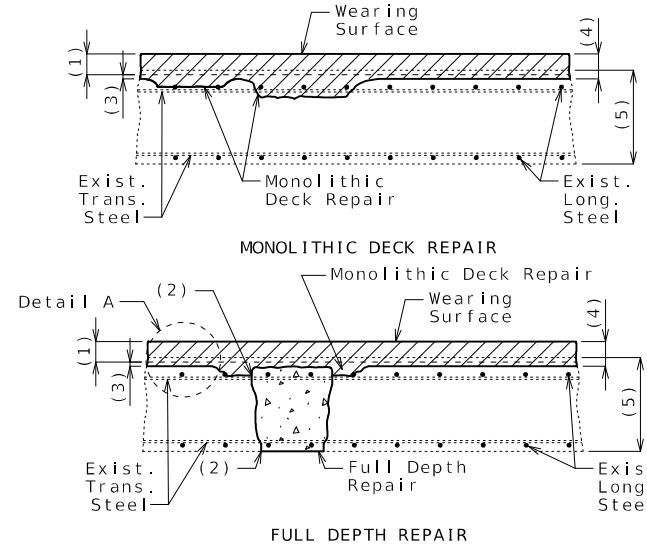
All exposed surfaces of the existing structural steel piles shall be recoated with one 6-mil thickness of aluminum epoxy-mastic primer applied over an SSPC-SP3 surface preparation in accordance with Sec 1081. The bituminous coating shall be applied one foot above and below the existing ground line and in accordance with Sec 702. These protective coatings will not be required below the normal low water line. The cost of surface preparation will be considered completely covered by the contract lump sum price for Surface Preparation for Applying Epoxy-Mastic Primer. The cost of the aluminum epoxy-mastic primer and bituminous coating will be considered completely covered by the contract lump sum price for Aluminum Epoxy-Mastic Primer.

Traffic Handling:

Structure to be closed during construction. See roadway plans for traffic control.

TYPICAL SECTION THRU EXISTING DECK

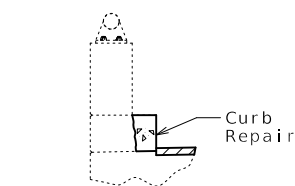
Construction phases may be completed in any order, but only one at a time. All repairs in one phase shall be completed and allowed to cure before starting the next phase.



- (1) Removal of existing 2"± asphalt wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition 1/2" minimum of sound concrete, and all unsound concrete.
- (4) 3" minimum Latex Modified concrete wearing surface
- (5) Original depth minus previous scarification

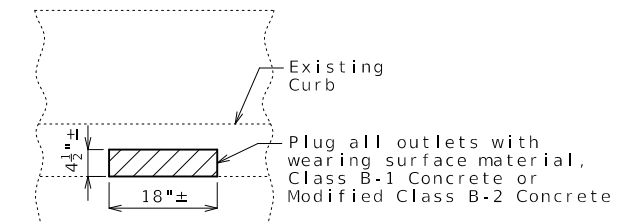
Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	360
Removal of Asphalt Wearing Surface	sq. foot	3234
Removal of Existing Deck Repair	sq. foot	120
* Supplementary Wearing Surface Material	cu. yard	2
Latex Modified Concrete Wearing Surface	sq. yard	360
Diamond Grinding	sq. yard	360
Full Depth Repair	sq. foot	100
Cleaning and Epoxy Coating	sq. foot	454
Plugging Existing Curb Outlets	each	8
Surface Preparation for Applying Epoxy-Mastic Primer	lump sum	1
Aluminum Epoxy-Mastic Primer	lump sum	1
Cored Slab Drains	each	12

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.



PART SECTION THRU LEFT CURB SHOWING CURB REPAIR

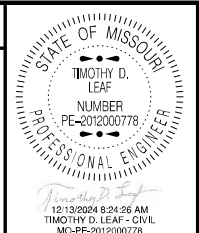
Cost of Curb Repair shall be considered completely covered by the contract unit price for other items. Estimated 10 linear feet of Curb Repair.



PART ELEVATION SHOWING PLUGGING OF CURB OUTLETS

REPAIRS TO BRIDGE: ROUTE 24 EB OVER FIRE PRAIRIE CREEK BRANCH

ROUTE 24 EB FROM ROUTE 7 TO ROUTE BB
 ABOUT 0.7 MILE WEST OF ROUTE BB
 BEGINNING STATION 607+97.54± (Match Existing)



DATE PREPARED
 12/13/2024

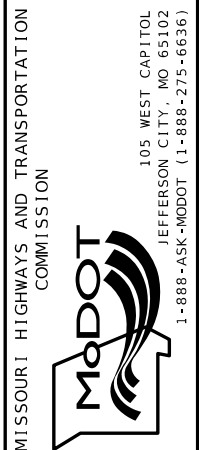
ROUTE 24 STATE MO
 DISTRICT BR SHEET NO. 1

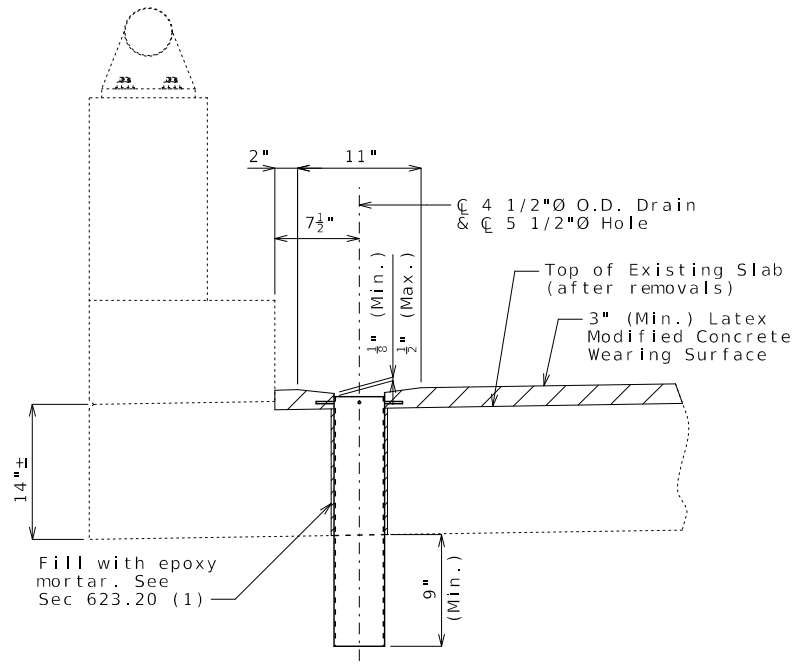
COUNTY JACKSON
 JOB NO. JKU0040
 CONTRACT ID.

PROJECT NO.

BRIDGE NO. A27223

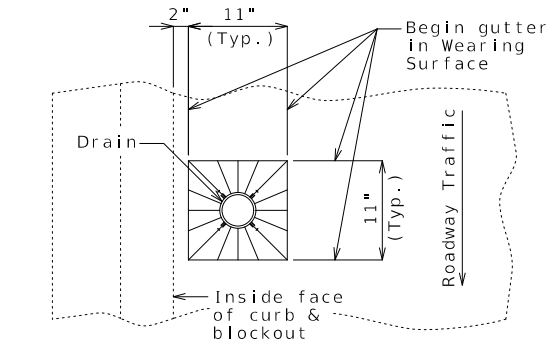
DESCRIPTION	DATE



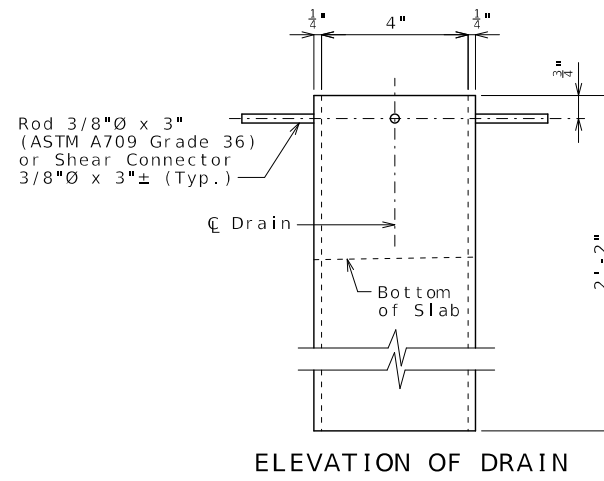


(1) Use backer rod around drain @ bottom of slab and epoxy inject from the top.

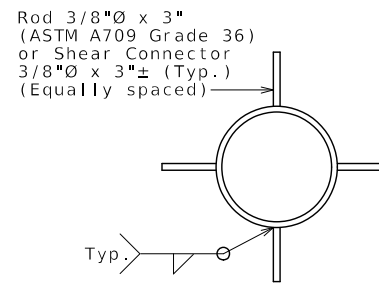
PART SECTION NEAR DRAIN



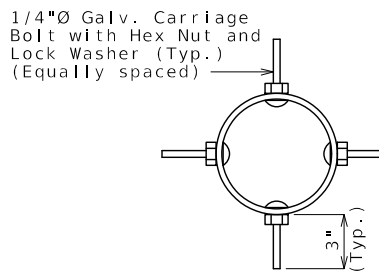
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF DRAIN



PLAN OF OPTIONAL FRP DRAIN

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.
Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

The 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 M232 (ASTM A153), Class C.

All 1/2-inch diameter bolts shall be ASTM A307, except as noted.

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

Cost of cored slab drains, complete in place, will be considered completely covered by the contract unit price for Cored Slab Drain per each.

Holes for slab drains shall be cored. Percussion drilling will not be permitted.

Slab drain locations may be shifted the minimum extent necessary to avoid slab reinforcement.

Cored slab drains shall be placed vertically.

For details of plugging existing curb outlets, see Sheet No. 1.

Notes for Steel Drain:

Slab drains shall be fabricated from 1/4-inch structural steel tubing ASTM A500 or A501.

The drains shall be galvanized in accordance with ASTM A123.

Drains shall be inserted through slab such that damage to galvanized coating is minimized.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

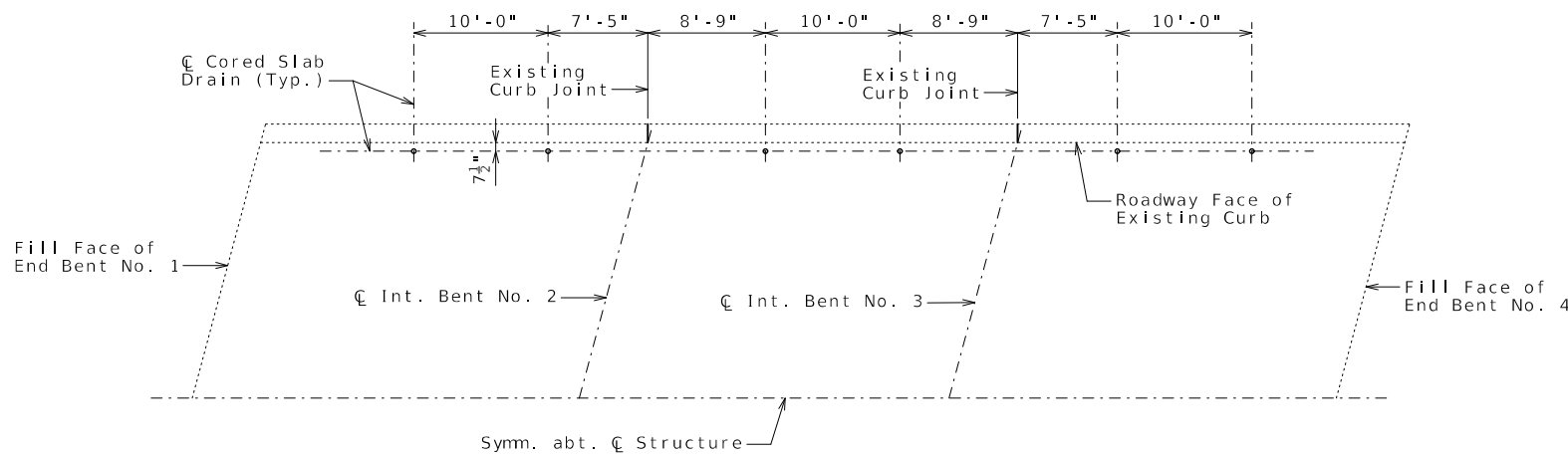
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance. Care shall be taken to avoid damage to exterior coating during installation.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drains shall be as recommended by the manufacturer to ensure a smooth, chip-free cut.



PART PLAN SHOWING CORED SLAB DRAIN LOCATIONS

CORED SLAB DRAINS



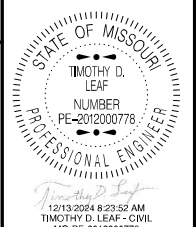
DATE PREPARED 12/13/2024	
ROUTE 24	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A27223	

DESCRIPTION	DATE

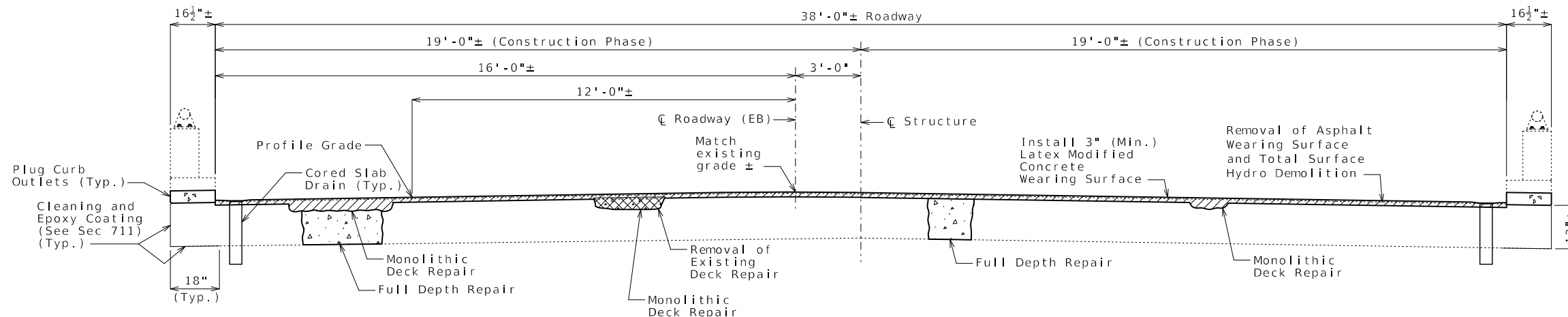
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

U.I.P. AND REHABILITATE EXISTING (22'-22'-22') CONTINUOUS CONCRETE SOLID SLAB SPANS (SKEW: SQUARE)



DATE PREPARED 12/13/2024	
ROUTE 24	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A27233	



TYPICAL SECTION THRU EXISTING DECK

Construction phases may be completed in any order, but only one at a time. All repairs in one phase shall be completed and allowed to cure before starting the next phase.

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Load Posting S-C3: Weight Limit 50 tons (to be maintained)
Bridge Deck Rating = 6

Design Loading:

HS20-44 (1969 & New Construction)

Design Unit Stresses:

Class B-1 Concrete (Full Depth Repair) $f'c = 4,000$ psi
Reinforcing Steel (ASTM A615 Grade 60) $f_y = 60,000$ psi

Miscellaneous:

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

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

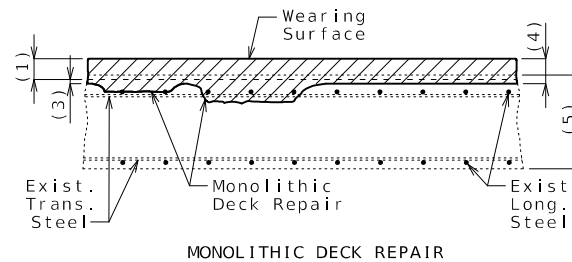
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

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

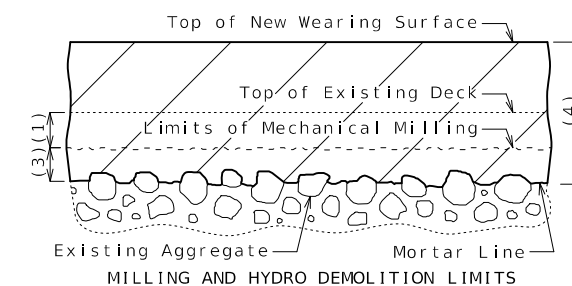
All exposed surfaces of the existing structural steel piles shall be recoated with one 6-mil thickness of aluminum epoxy-mastic primer applied over an SSPC-SP3 surface preparation in accordance with Sec 1081. The bituminous coating shall be applied one foot above and below the existing ground line and in accordance with Sec 702. These protective coatings will not be required below the normal low water line. The cost of surface preparation will be considered completely covered by the contract lump sum price for Surface Preparation for Applying Epoxy-Mastic Primer. The cost of the aluminum epoxy-mastic primer and bituminous coating will be considered completely covered by the contract lump sum price for Aluminum Epoxy-Mastic Primer.

Traffic Handling:

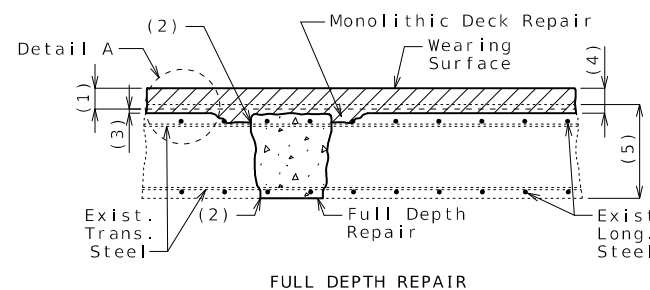
Structure to be closed during construction. See roadway plans for traffic control.



MONOLITHIC DECK REPAIR



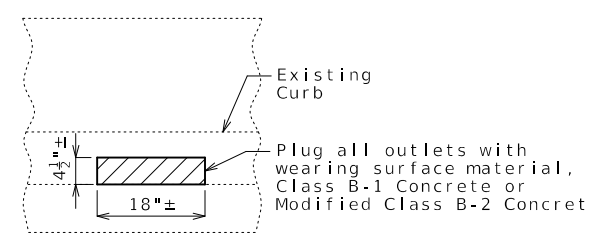
DETAIL A



FULL DEPTH REPAIR

- (1) Removal of existing 2"± asphalt wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition 1/2" minimum of sound concrete, and all unsound concrete.
- (4) 3" minimum Latex Modified concrete wearing surface
- (5) Original depth minus previous scarification

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	290
Removal of Asphalt Wearing Surface	sq. foot	2603
Removal of Existing Deck Repair	sq. foot	110
* Supplementary Wearing Surface Material	cu. yard	2
Latex Modified Concrete Wearing Surface	sq. yard	290
Diamond Grinding	sq. yard	290
Full Depth Repair	sq. foot	100
Cleaning and Epoxy Coating	sq. foot	354
Plugging Existing Curb Outlets	each	6
Surface Preparation for Applying Epoxy-Mastic Primer	lump sum	1
Aluminum Epoxy-Mastic Primer	lump sum	1
Cored Slab Drains	each	12



PART ELEVATION SHOWING PLUGGING OF CURB OUTLETS

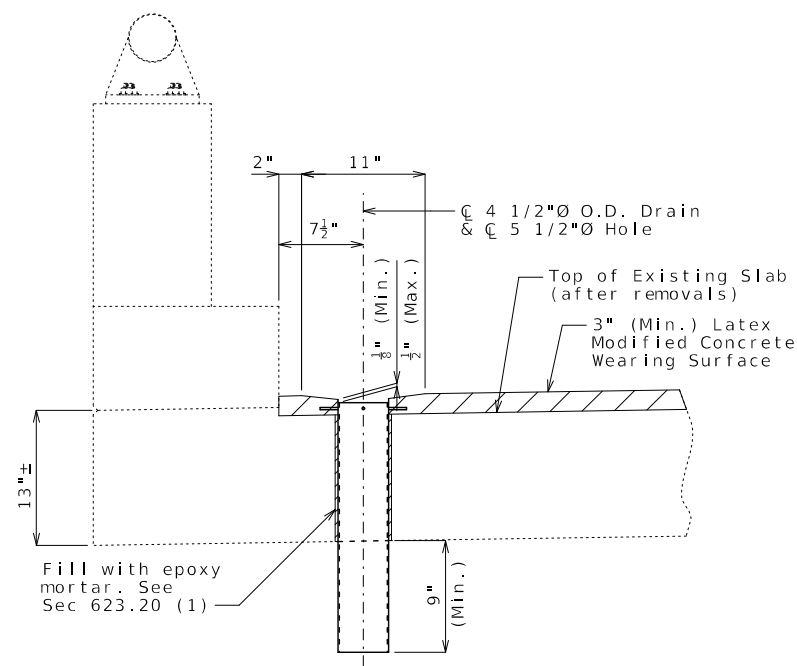
REPAIRS TO BRIDGE: ROUTE 24 EB OVER OVERFLOW DITCH

ROUTE 24 EB FROM ROUTE 7 TO ROUTE BB
ABOUT 0.5 MILE WEST OF ROUTE BB
BEGINNING STATION 618+03.77± (Match Existing)

DESCRIPTION	DATE

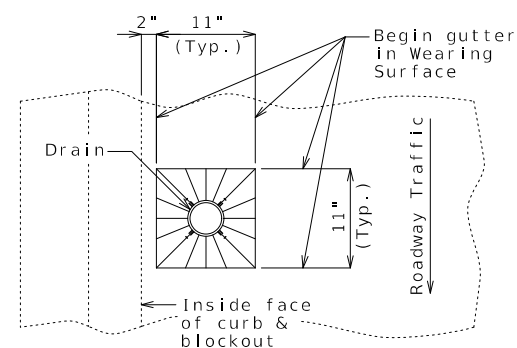
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

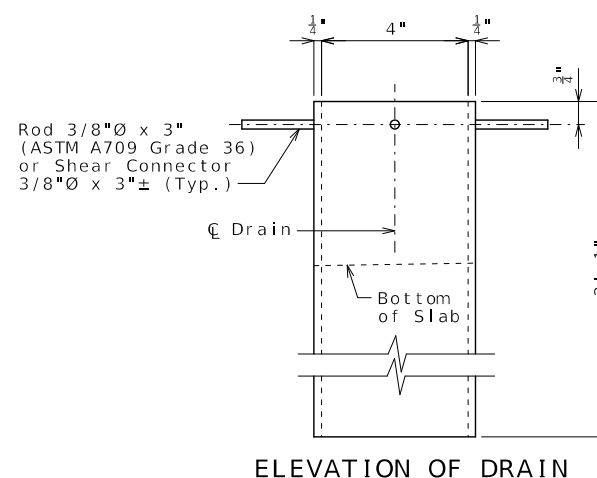


(1) Use backer rod around drain @ bottom of slab and epoxy inject from the top.

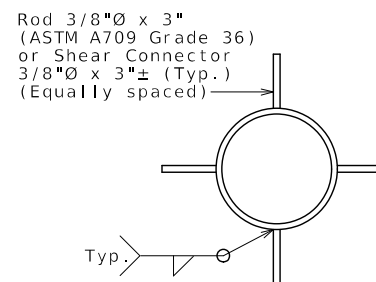
PART SECTION NEAR DRAIN



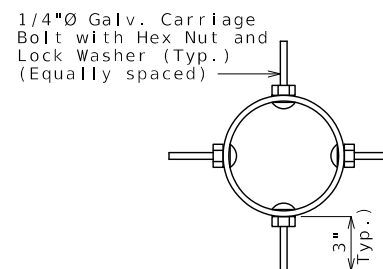
PART PLAN OF SLAB AT DRAIN



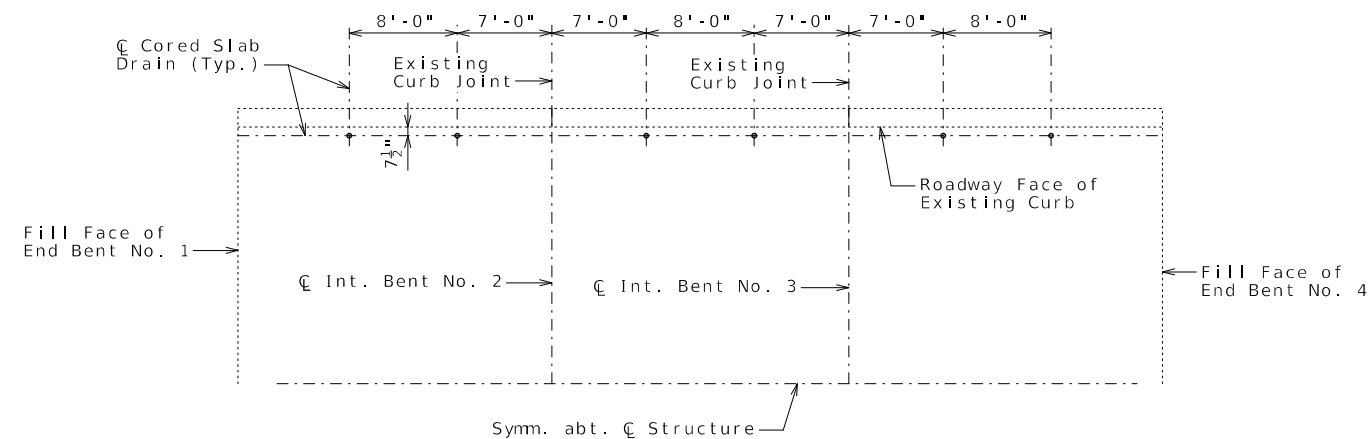
ELEVATION OF DRAIN



PLAN OF DRAIN



PLAN OF OPTIONAL FRP DRAIN



PART PLAN SHOWING CORED SLAB DRAIN LOCATIONS

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

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

The 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 M232 (ASTM A153), Class C.

All 1/2-inch diameter bolts shall be ASTM A307, except as noted.

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

Cost of cored slab drains, complete in place, will be considered completely covered by the contract unit price for Cored Slab Drain per each.

Holes for slab drains shall be cored. Percussion drilling will not be permitted.

Slab drain locations may be shifted the minimum extent necessary to avoid slab reinforcement.

Cored slab drains shall be placed vertically.

For details of plugging existing curb outlets, see Sheet No. 1.

Notes for Steel Drain:

Slab drains shall be fabricated from 1/4-inch structural steel tubing ASTM A500 or A501.

The drains shall be galvanized in accordance with ASTM A123.

Drains shall be inserted through slab such that damage to galvanized coating is minimized.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

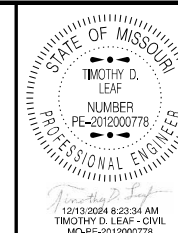
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance. Care shall be taken to avoid damage to exterior coating during installation.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drains shall be as recommended by the manufacturer to ensure a smooth, chip-free cut.



DATE PREPARED
12/13/2024

ROUTE 24 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY JACKSON

JOB NO. JKU0040

CONTRACT ID.

PROJECT NO.

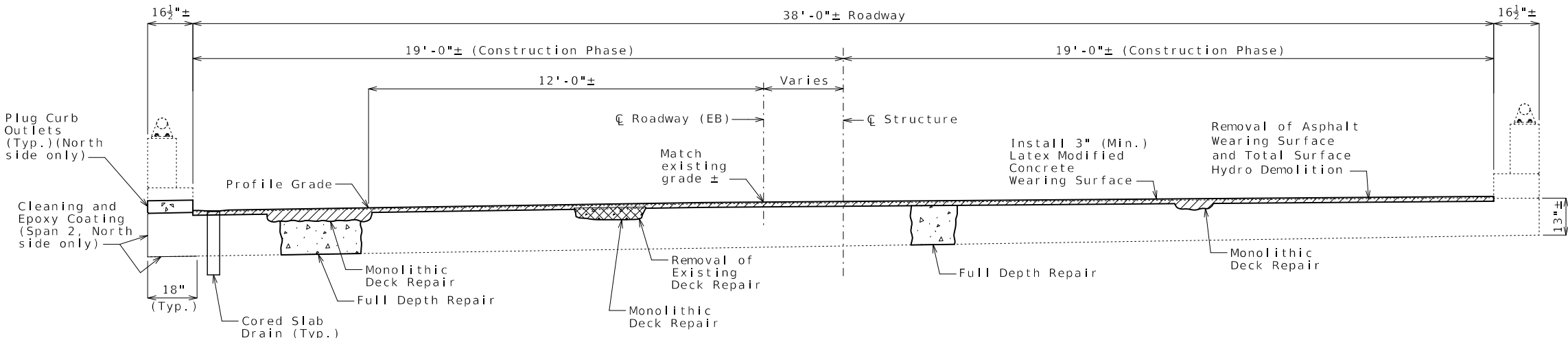
BRIDGE NO. A27233

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

U.I.P. AND REHABILITATE EXISTING (22'-22'-22') CONTINUOUS CONCRETE SOLID SLAB SPANS (SKEW: SQUARE)



TYPICAL SECTION THRU EXISTING DECK

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
 Load Posting S-C3: Weight Limit 50 tons (to be maintained)
 Bridge Deck Rating = 6

Design Loading:

HS20-44 (1969 & New Construction)

Design Unit Stresses:

Class B-1 Concrete (Full Depth Repair) $f'c = 4,000$ psi
 Reinforcing Steel (ASTM A615 Grade 60) $f_y = 60,000$ psi

Miscellaneous:

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

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

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

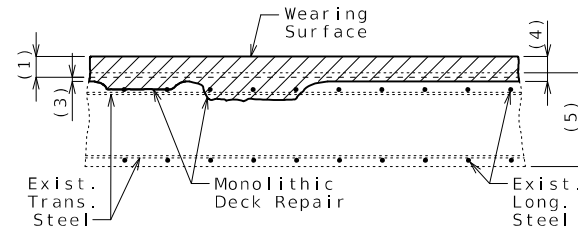
In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in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

All exposed surfaces of the existing structural steel piles shall be recoated with one 6-mil thickness of aluminum epoxy-mastic primer applied over an SSPC-SP3 surface preparation in accordance with Sec 1081. The bituminous coating shall be applied one foot above and below the existing ground line and in accordance with Sec 702. These protective coatings will not be required below the normal low water line. The cost of surface preparation will be considered completely covered by the contract lump sum price for Surface Preparation for Applying Epoxy-Mastic Primer. The cost of the aluminum epoxy-mastic primer and bituminous coating will be considered completely covered by the contract lump sum price for Aluminum Epoxy-Mastic Primer.

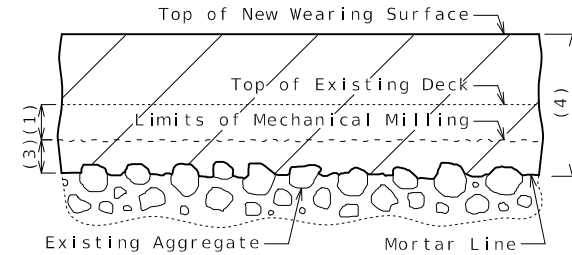
Traffic Handling:

Structure to be closed during construction. See roadway plans for traffic control.

Construction phases may be completed in any order, but only one at a time. All repairs in one phase shall be completed and allowed to cure before starting the next phase.

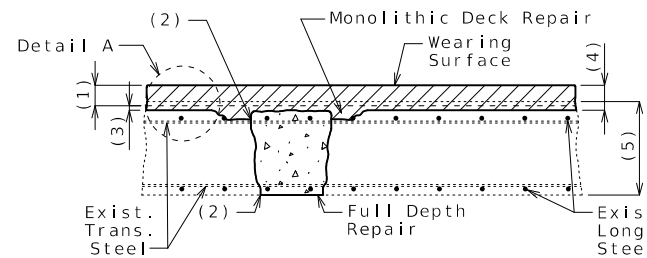


MONOLITHIC DECK REPAIR



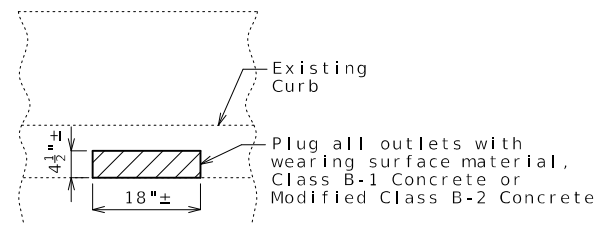
MILLING AND HYDRO DEMOLITION LIMITS

DETAIL A



FULL DEPTH REPAIR

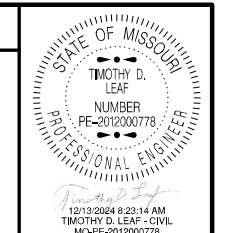
- (1) Removal of existing 2"± asphalt wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition 1/2" minimum of sound concrete, and all unsound concrete.
- (4) 3" minimum Latex Modified concrete wearing surface
- (5) Original depth minus previous scarification



PART ELEVATION SHOWING PLUGGING OF CURB OUTLETS

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	290
Removal of Asphalt Wearing Surface	sq. foot	2603
Removal of Existing Deck Repair	sq. foot	120
* Supplementary Wearing Surface Material	cu. yard	2
Latex Modified Concrete Wearing Surface	sq. yard	290
Diamond Grinding	sq. yard	290
Full Depth Repair	sq. foot	100
Cleaning and Epoxy Coating	sq. foot	171
Plugging Existing Curb Outlets	each	3
Surface Preparation for Applying Epoxy-Mastic Primer	lump sum	1
Aluminum Epoxy-Mastic Primer	lump sum	1
Cored Slab Drains	each	6

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.



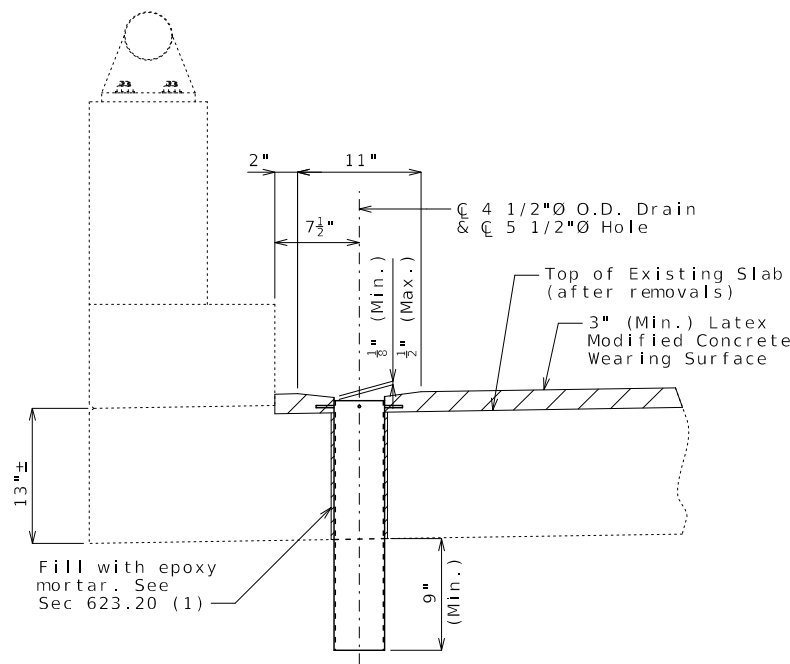
DATE PREPARED 12/13/2024	
ROUTE 24	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY JACKSON	
JOB NO. JKU0040	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A27243	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

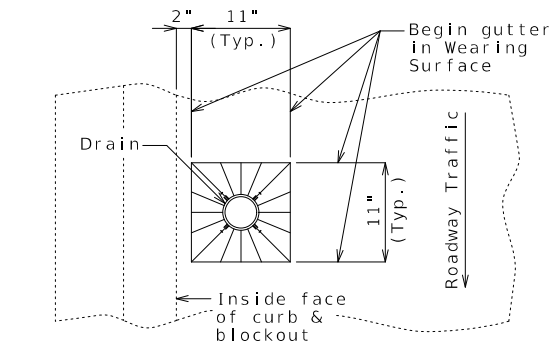
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

REPAIRS TO BRIDGE: ROUTE 24 EB OVER OVERFLOW DITCH
 ROUTE 24 EB FROM ROUTE 7 TO ROUTE BB ABOUT 0.3 MILE WEST OF ROUTE BB
 BEGINNING STATION 627+97.16± (Match Existing)

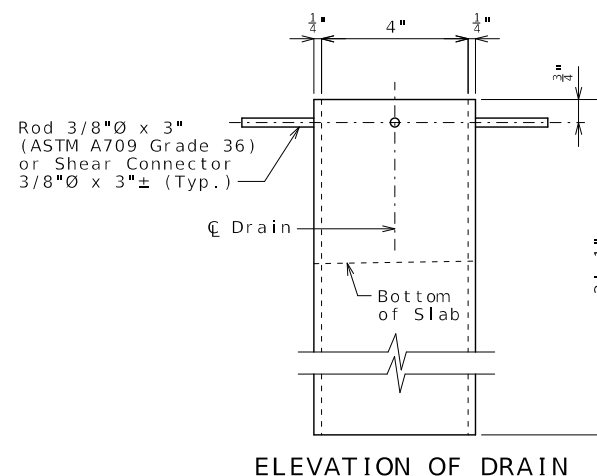


(1) Use backer rod around drain @ bottom of slab and epoxy inject from the top.

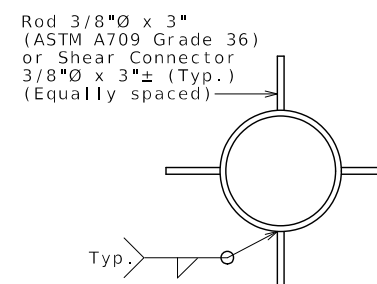
PART SECTION NEAR DRAIN



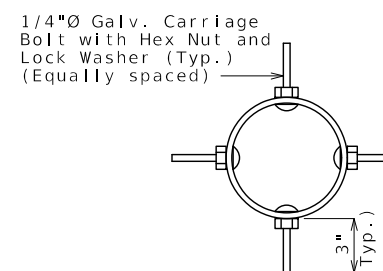
PART PLAN OF SLAB AT DRAIN



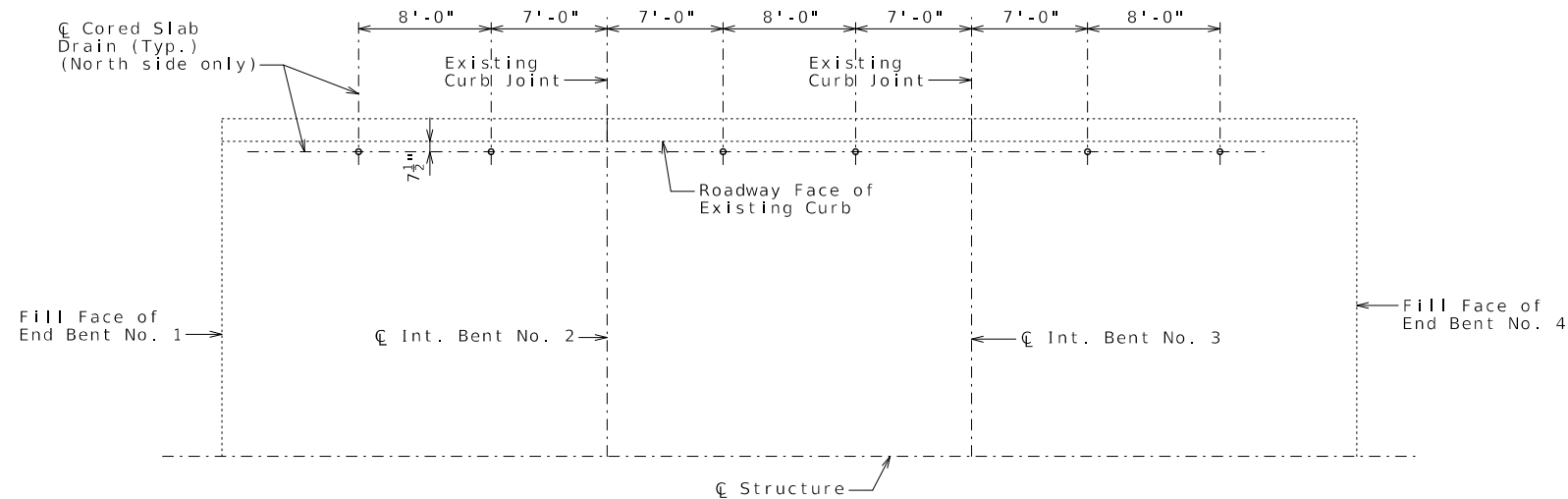
ELEVATION OF DRAIN



PLAN OF DRAIN



PLAN OF OPTIONAL FRP DRAIN



PART PLAN SHOWING CORED SLAB DRAIN LOCATIONS

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

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

The 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 M232 (ASTM A153), Class C.

All 1/2-inch diameter bolts shall be ASTM A307, except as noted.

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

Cost of cored slab drains, complete in place, will be considered completely covered by the contract unit price for Cored Slab Drain per each.

Holes for slab drains shall be cored. Percussion drilling will not be permitted.

Slab drain locations may be shifted the minimum extent necessary to avoid slab reinforcement.

Cored slab drains shall be placed vertically.

For details of plugging existing curb outlets, see Sheet No. 1.

Notes for Steel Drain:

Slab drains shall be fabricated from 1/4-inch structural steel tubing ASTM A500 or A501.

The drains shall be galvanized in accordance with ASTM A123.

Drains shall be inserted through slab such that damage to galvanized coating is minimized.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

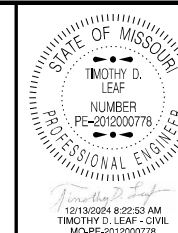
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance. Care shall be taken to avoid damage to exterior coating during installation.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drains shall be as recommended by the manufacturer to ensure a smooth, chip-free cut.



DATE PREPARED 12/13/2024	
ROUTE 24	STATE MO
DISTRICT BR	SHEET NO. 2

COUNTY JACKSON
JOB NO. JKU0040
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A27243

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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