

DESIGN DESIGNATION

A.A.D.T. - 2027 = 6,900
 A.A.D.T. - 2047 = 10,300
 T = 7.3%
 V = 65 M.P.H.

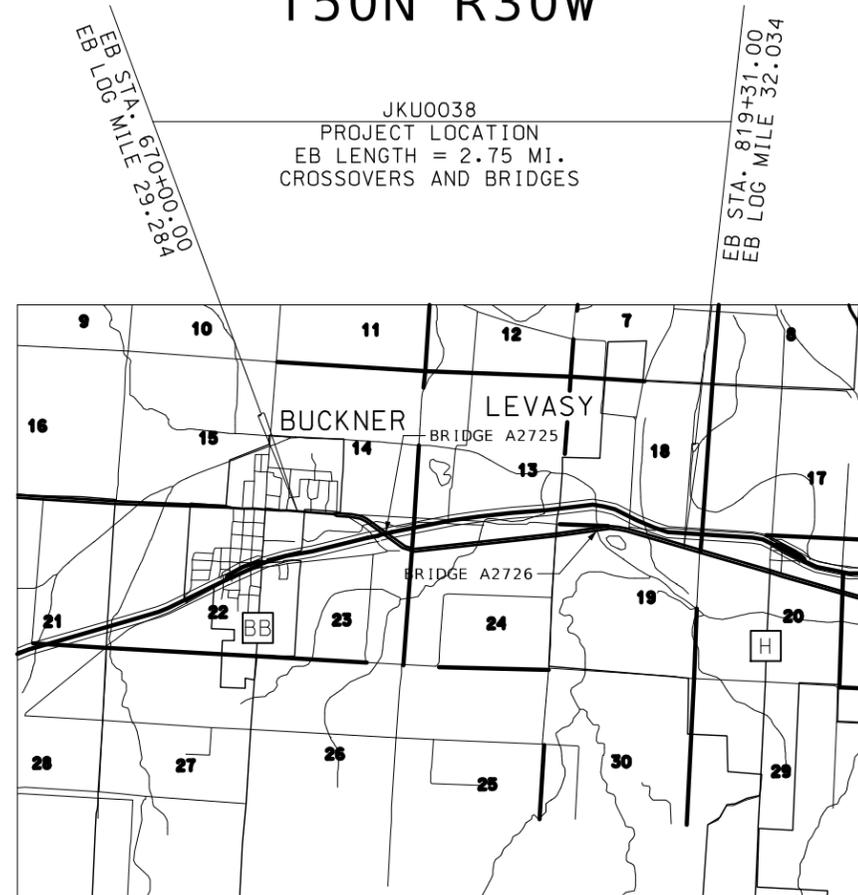
FUNCTIONAL CLASSIFICATION-PRINCIPLE ARTERIAL

NO RIGHT OF WAY TAKING ON THIS PROJECT

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 PLANS FOR PROPOSED
 STATE HIGHWAY**



**JACKSON COUNTY
 T50N R30W**



NOT TO SCALE



INDEX OF SHEETS

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DATE PREPARED
 1/13/2026

ROUTE 24 STATE MO
 DISTRICT KC SHEET NO. 1
 COUNTY JACKSON
 JOB NO. JKU0038
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.
 A2725, A2726

DATE	DESCRIPTION

**CONVENTIONAL SYMBOLS
 (USED IN PLANS)**

	EXISTING	NEW
BUILDINGS AND STRUCTURES	[Symbol]	[Symbol]
GUARD RAIL	[Symbol]	[Symbol]
GUARD CABLE	[Symbol]	[Symbol]
CONCRETE RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
STEEL RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
LOCATION SURVEY MARKER	[Symbol]	[Symbol]
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	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
WATER VALVE	[Symbol]	[Symbol]
WATER METER	[Symbol]	[Symbol]
DROP INLET	[Symbol]	[Symbol]
DITCH BLOCK	[Symbol]	[Symbol]
GROUND MOUNTED SIGN	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
H-FRAME POWER POLE	[Symbol]	[Symbol]
TELEPHONE PEDESTAL	[Symbol]	[Symbol]
FENCE		
CHAIN LINK	[Symbol]	[Symbol]
WOVEN WIRE	[Symbol]	[Symbol]
GATE POST	[Symbol]	[Symbol]
BENCHMARK	[Symbol]	[Symbol]

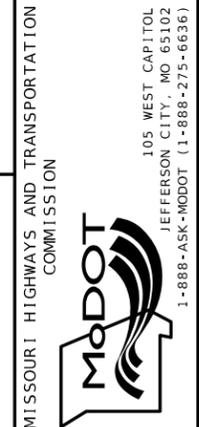
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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.

LENGTH OF PROJECT

WB BEGINNING OF PROJECT STA.	670 + 00.00	
WB END OF PROJECT STA.	819 + 31.00	
WB APPARENT LENGTH	14,391.00	FEET
EB BEGINNING OF PROJECT STA.	690 + 00.00	
EB END OF PROJECT STA.	819 + 31.00	
EB APPARENT LENGTH	12,391.00	FEET
EQUATIONS AND EXCEPTIONS:		
WB LANES		
STA 685+54.21 BK		
STA 685+40.00 AH	+ 14.21	FEET
STA 707+91.61 BK		
STA 707+89.57 AH CL MED	+ 2.04	FEET
EB LANES		
STA 726+28.95 BK		
STA 704+90.16 AH CL MED	+ 2138.79	FEET
TOTAL WB CORRECTIONS	+ 16.25	FEET
TOTAL EB CORRECTIONS	+ 2138.79	FEET
WB NET LENGTH OF PROJECT	14,407.25	FEET
EB NET LENGTH OF PROJECT	14,529.79	FEET
WB STATE LENGTH	2.73	MILES
EB STATE LENGTH	2.75	MILES

FOR INFORMATION ONLY
 ESTIMATED DISTURBED ACRES 3 ACRES



REV.



Christopher Alan West
01/08/2026 8:53:32 AM
CHRISTOPHER ALAN WEST - CIVIL
MO-PE-2014017034

DATE PREPARED
1/8/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 4

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

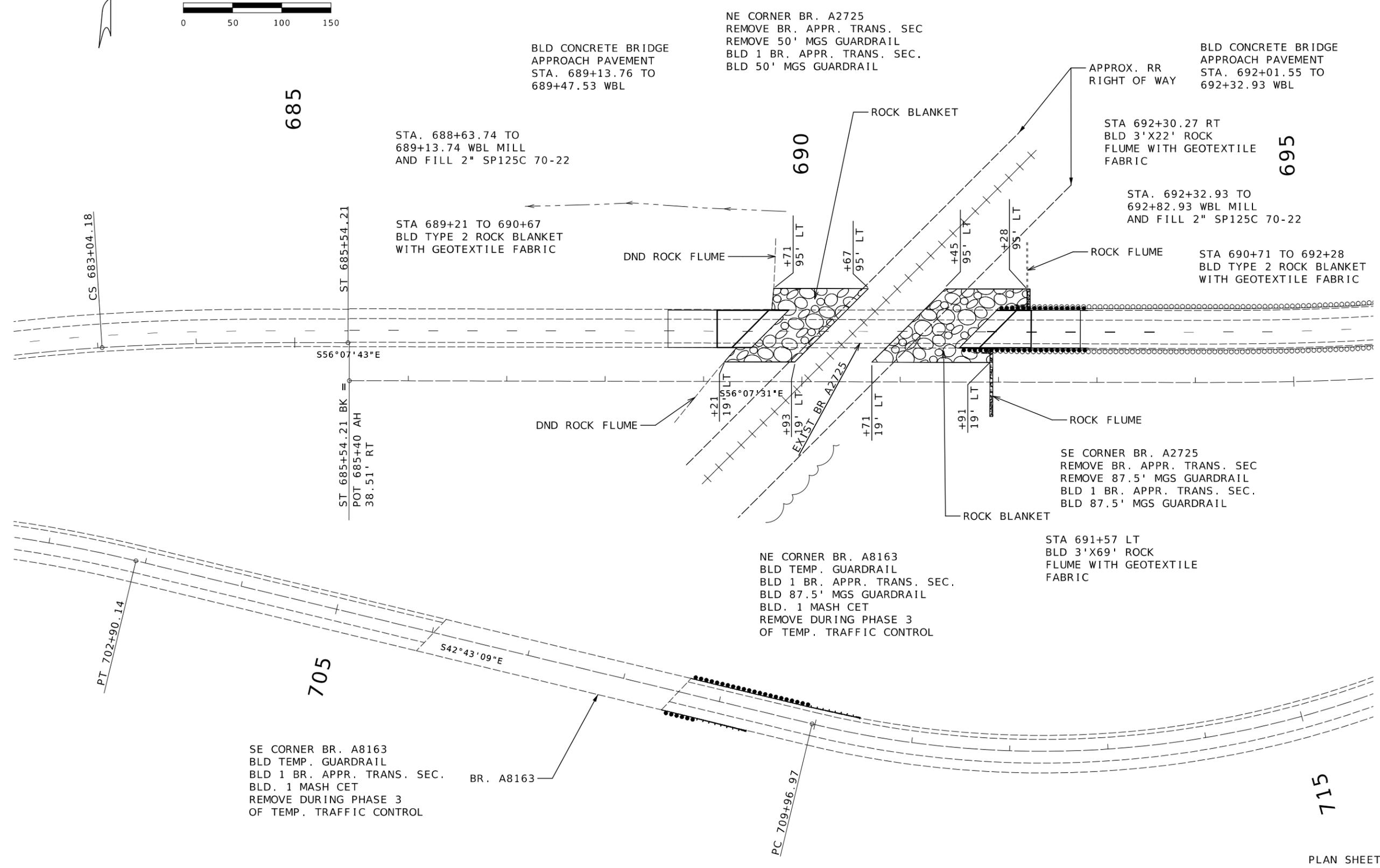
105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

COMMISSION

PLAN SHEET SHEET 1 OF 5



BLD CONCRETE BRIDGE APPROACH PAVEMENT STA. 689+13.76 TO 689+47.53 WBL

NE CORNER BR. A2725 REMOVE BR. APPR. TRANS. SEC REMOVE 50' MGS GUARDRAIL BLD 1 BR. APPR. TRANS. SEC. BLD 50' MGS GUARDRAIL

BLD CONCRETE BRIDGE APPROACH PAVEMENT STA. 692+01.55 TO 692+32.93 WBL

STA. 688+63.74 TO 689+13.74 WBL MILL AND FILL 2" SP125C 70-22

STA 689+21 TO 690+67 BLD TYPE 2 ROCK BLANKET WITH GEOTEXTILE FABRIC

APPROX. RR RIGHT OF WAY

STA 692+30.27 RT BLD 3'X22' ROCK FLUME WITH GEOTEXTILE FABRIC

STA. 692+32.93 TO 692+82.93 WBL MILL AND FILL 2" SP125C 70-22

STA 690+71 TO 692+28 BLD TYPE 2 ROCK BLANKET WITH GEOTEXTILE FABRIC

SE CORNER BR. A2725 REMOVE BR. APPR. TRANS. SEC REMOVE 87.5' MGS GUARDRAIL BLD 1 BR. APPR. TRANS. SEC. BLD 87.5' MGS GUARDRAIL

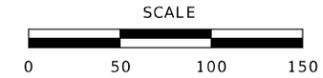
NE CORNER BR. A8163 BLD TEMP. GUARDRAIL BLD 1 BR. APPR. TRANS. SEC. BLD 87.5' MGS GUARDRAIL BLD. 1 MASH CET REMOVE DURING PHASE 3 OF TEMP. TRAFFIC CONTROL

SE CORNER BR. A8163 BLD TEMP. GUARDRAIL BLD 1 BR. APPR. TRANS. SEC. BLD. 1 MASH CET REMOVE DURING PHASE 3 OF TEMP. TRAFFIC CONTROL

PLAN SHEET SHEET 1 OF 5

NW CORNER BR. A5007
 BLD TEMP. GUARDRAIL
 BLD 1 BRIDGE ANCHOR TRANS. SECTION
 BLD 1 MASH CET
 REMOVE WHEN CROSSOVERS
 ARE REMOVED

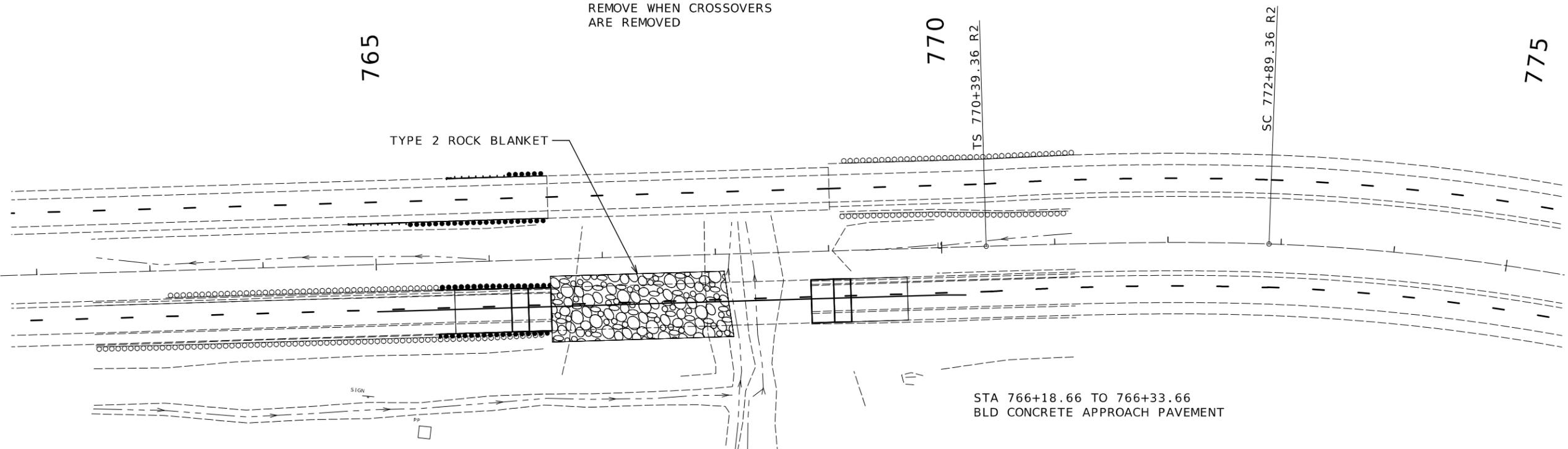
SW CORNER BR. A5007
 BLD TEMP. GUARDRAIL
 BLD 1 BRIDGE ANCHOR TRANS. SECTION
 BLD 87.5' MGS GUARDRAIL
 BLD 1 MASH CET
 REMOVE WHEN CROSSOVERS
 ARE REMOVED



765

770

775



STA. 765+68.66 TO
 766+18.66 WBL MILL
 AND FILL 2" SP125C 70-22

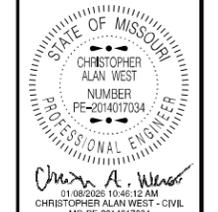
NW CORNER BR A2726
 REMOVE 100' OF GUARDRAIL
 WHEN BRIDGE IS COMPLETE
 BLD 1 BRIDGE ANCHOR TRANS. SECTION
 BLD 62.5' MGS GUARDRAIL

SW CORNER BR A2726
 REMOVE 100' OF GUARDRAIL
 WHEN BRIDGE IS COMPLETE
 BLD 1 BRIDGE ANCHOR TRANS. SECTION
 BLD 62.5' MGS GUARDRAIL

STA 766+53.66 TO 768+10.43
 BLD TYPE 2 ROCK BLANKET
 WITH GEOTEXTILE FABRIC

STA 769+03.66 TO 769+18.66
 BLD CONCRETE APPROACH PAVEMENT

STA. 769+18.66 TO
 769+68.66 WBL MILL
 AND FILL 2" SP125C 70-22



DATE PREPARED
 1/8/2026
 ROUTE 24 STATE MO
 DISTRICT KC SHEET NO. 6
 COUNTY JACKSON
 JOB NO. JKU0038
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
1/7/2026

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 10

COUNTY
JACKSON

JOB NO.
JKU0038

CONTRACT ID.

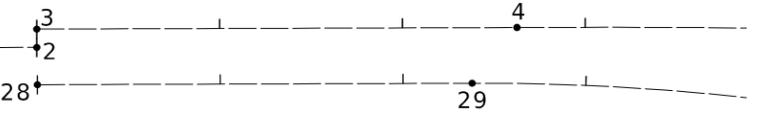
PROJECT NO.

BRIDGE NO.

000

665

670

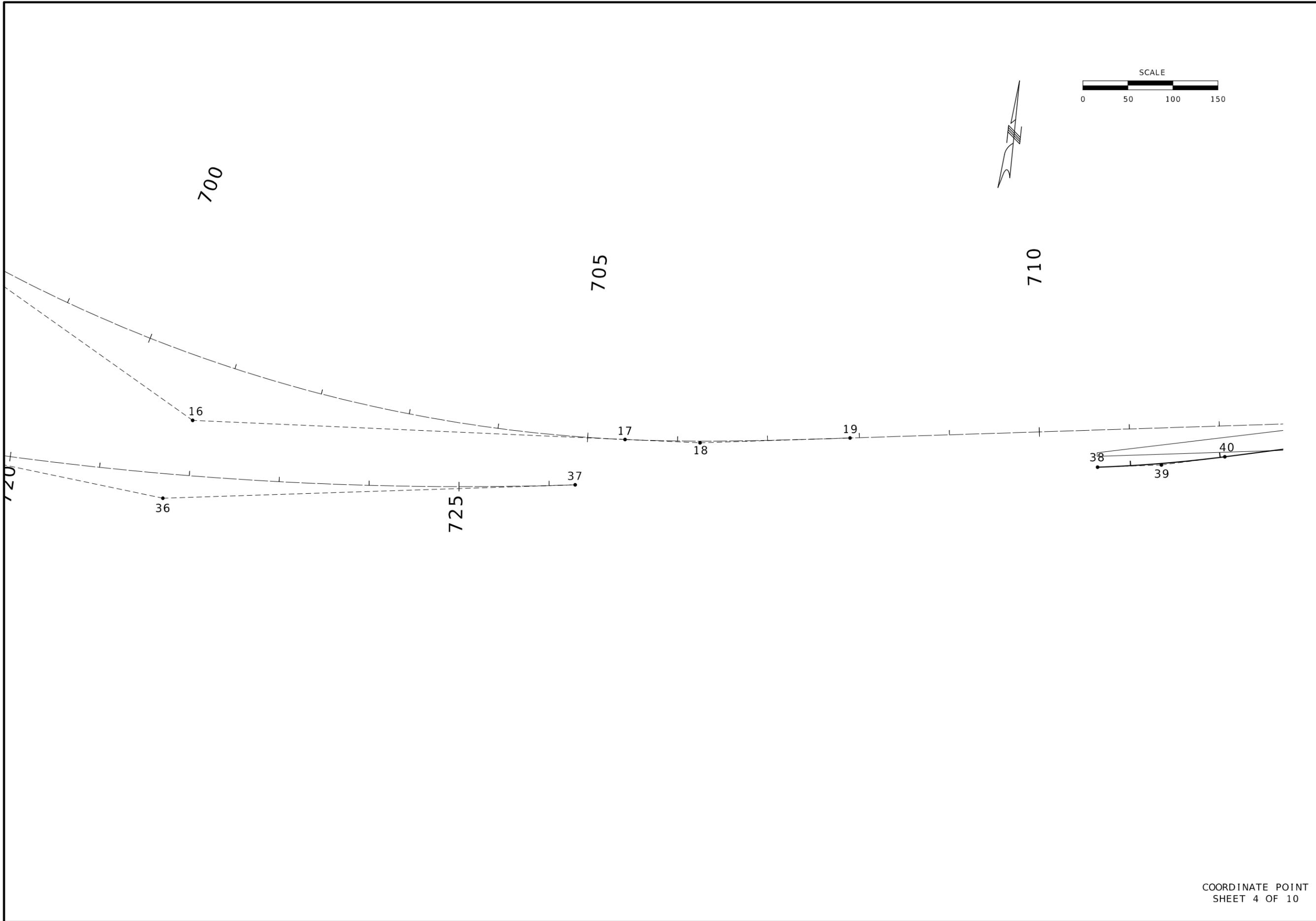


690

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



Christopher A. West
01/08/2025 8:20:49 AM
CHRISTOPHER ALAN WEST - CIVIL
MO-PE-2014017034

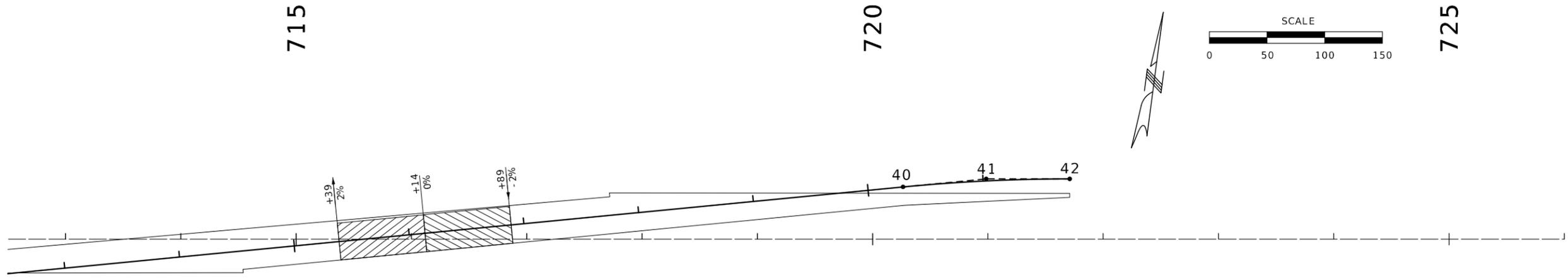
DATE PREPARED
1/7/2026

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 13
COUNTY JACKSON	
JOB NO. JKU0038	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



715

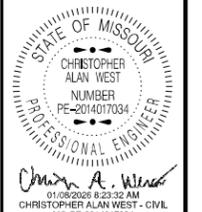
720

725

730

735

COORDINATE POINT
SHEET 5 OF 10



DATE PREPARED 1/7/2026	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 14
COUNTY JACKSON	
JOB NO. JKU0038	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

795

800

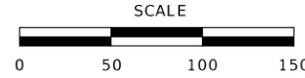
805

43 44 45

+9.6
-2%

+7.1
0%

+4.6
2%



810

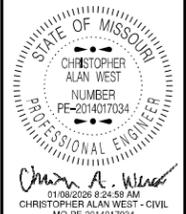
815

820

46 47 48



CONTROL POINT
SHEET 8 OF 10



DATE PREPARED
1/7/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 17

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

DATE PREPARED
 1/8/2026

ROUTE 24 STATE MO
 DISTRICT KC SHEET NO. 21

COUNTY JACKSON

JOB NO. JKU0038

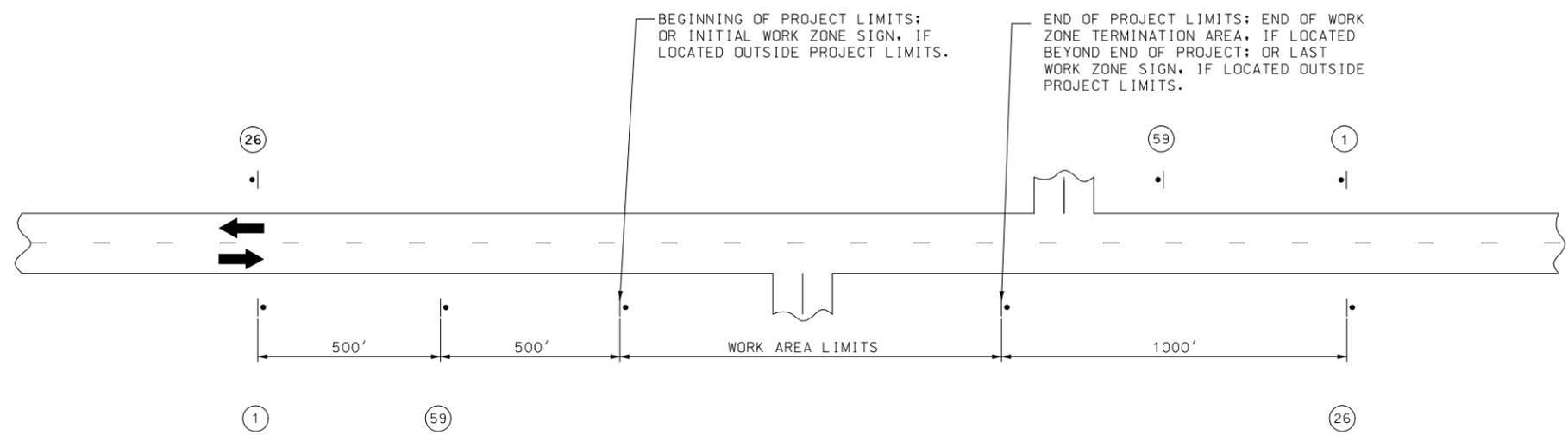
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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



NOTES:
 SIGN (1) AND (26) ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.
 PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.
 DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

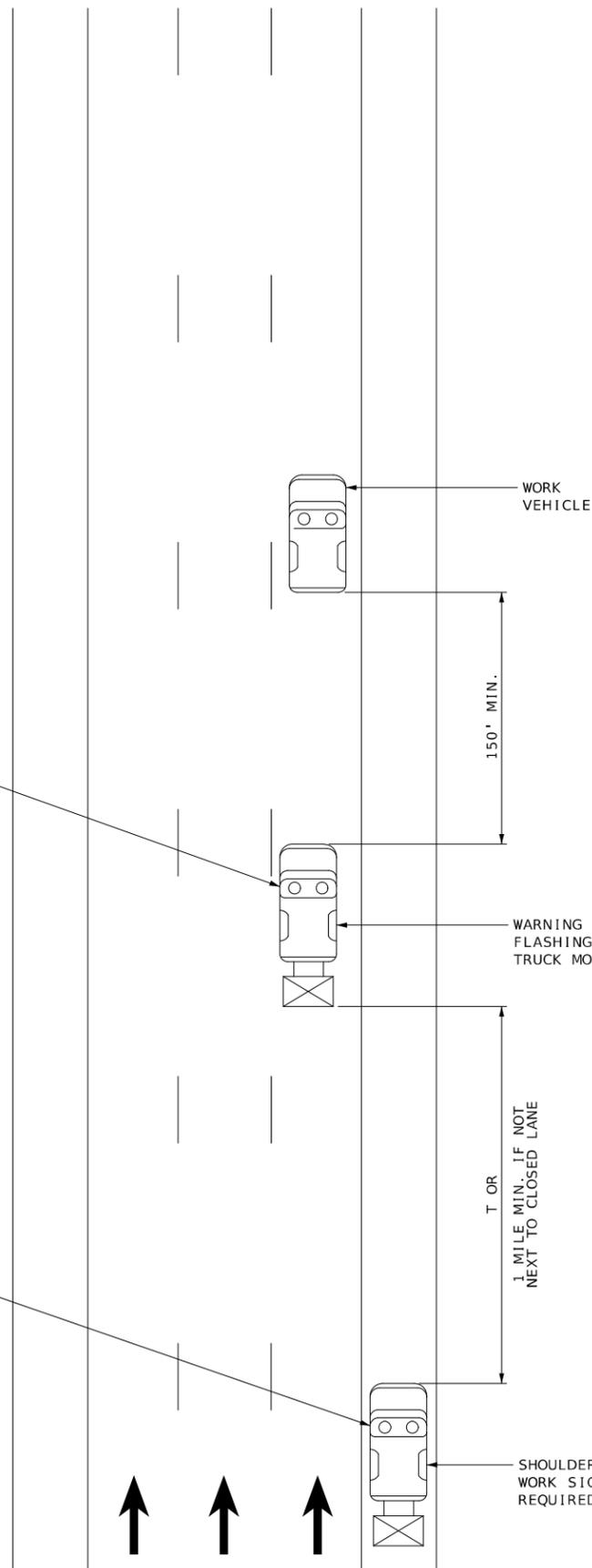
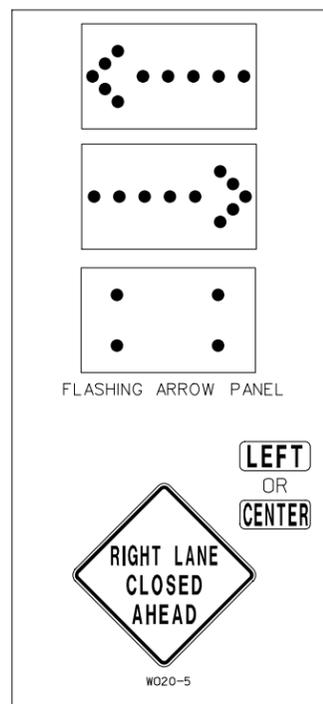
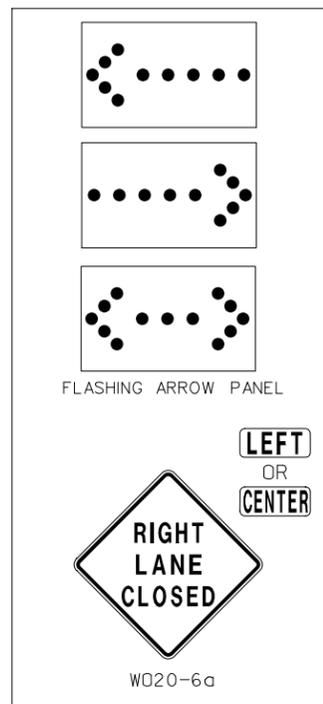
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

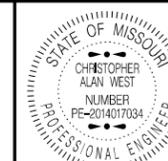
FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.



SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

MOBILE ON MULTI-LANE HIGHWAY



CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

DATE PREPARED
 1/5/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 24

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CHRISTOPHER ALAN WEST
NUMBER
PE-2014017034
PROFESSIONAL ENGINEER

DATE PREPARED
1/5/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 27

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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



MATCHLINE STA. 723+64.14 R2

MATCHLINE STA. 737+14.14 R2

725

730

735

CHANNELIZERS @ 120' SPACING

CHANNELIZERS @ 120' SPACING

WORK ZONE
SPEED LIMIT
55
R2-1 & R2-2-55P
STA. 725+75P

WORK ZONE
DO NOT PASS
R4-1 & R4-2-100P
STA. 737+100P



CONTROL

TRAFFIC CONTROL
PHASE 1
SHEET 3 OF 10



730

735

740

TUBULAR MARKERS @ 40

MATCHLINE STA. 727+92.44 R2

MATCHLINE STA. 741+42.44 R2

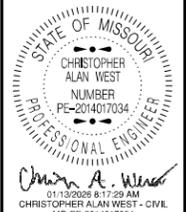
4" SOLID WHITE

4" DOUBLE YELLOW

WORK
ZONE
DO
NOT
PASS
R&T & 6020-SAP
STA. 737+00

N82°23'55"E

TRAFFIC CONTROL
PHASE 2
SHEET 6 OF 13



DATE PREPARED
1/5/2026
ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 40
COUNTY JACKSON
JOB NO. JKU0038
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

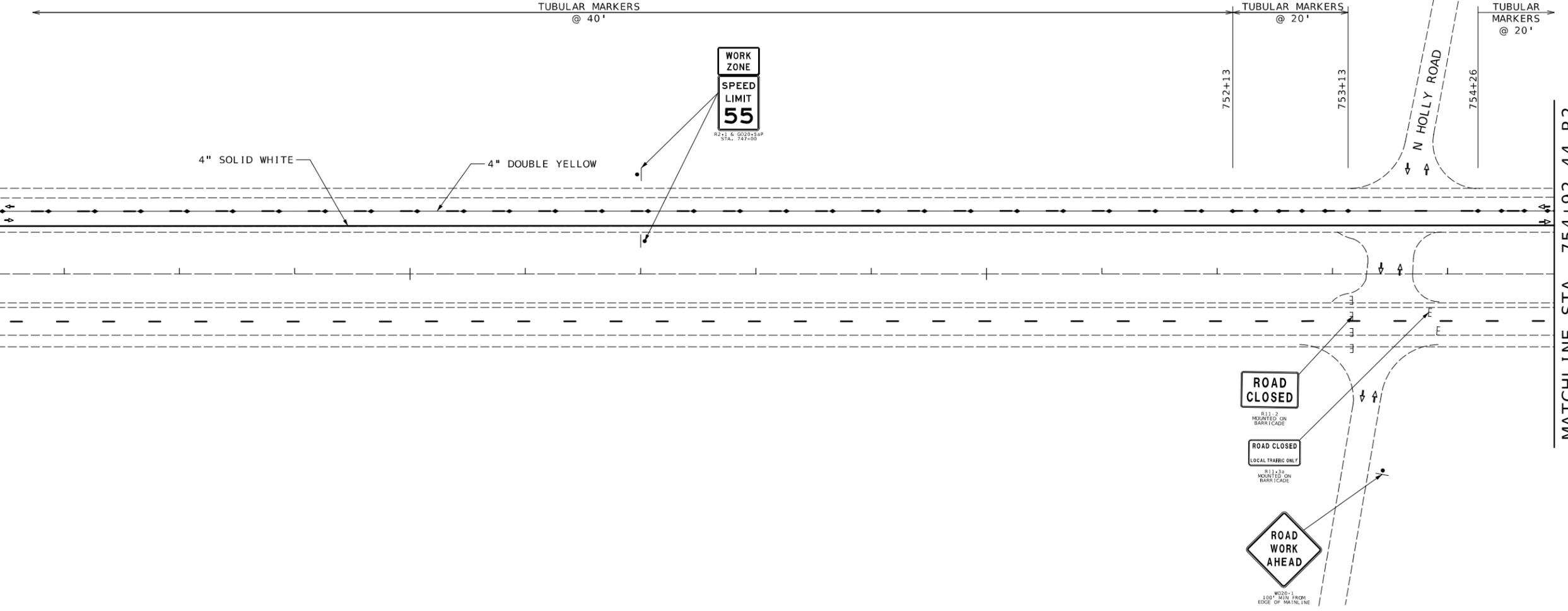


745

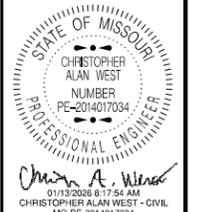
750

MATCHLINE STA. 741+42.44 R2

MATCHLINE STA. 754+92.44 R2



TRAFFIC CONTROL
PHASE 2
SHEET 7 OF 13



DATE PREPARED
1/7/2026

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 41

COUNTY
JACKSON

JOB NO.
JKU0038

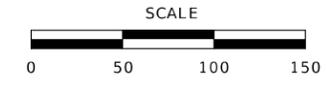
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

DATE PREPARED
 1/5/2026

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 42

COUNTY
 JACKSON
 JOB NO.
 JKU0038
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

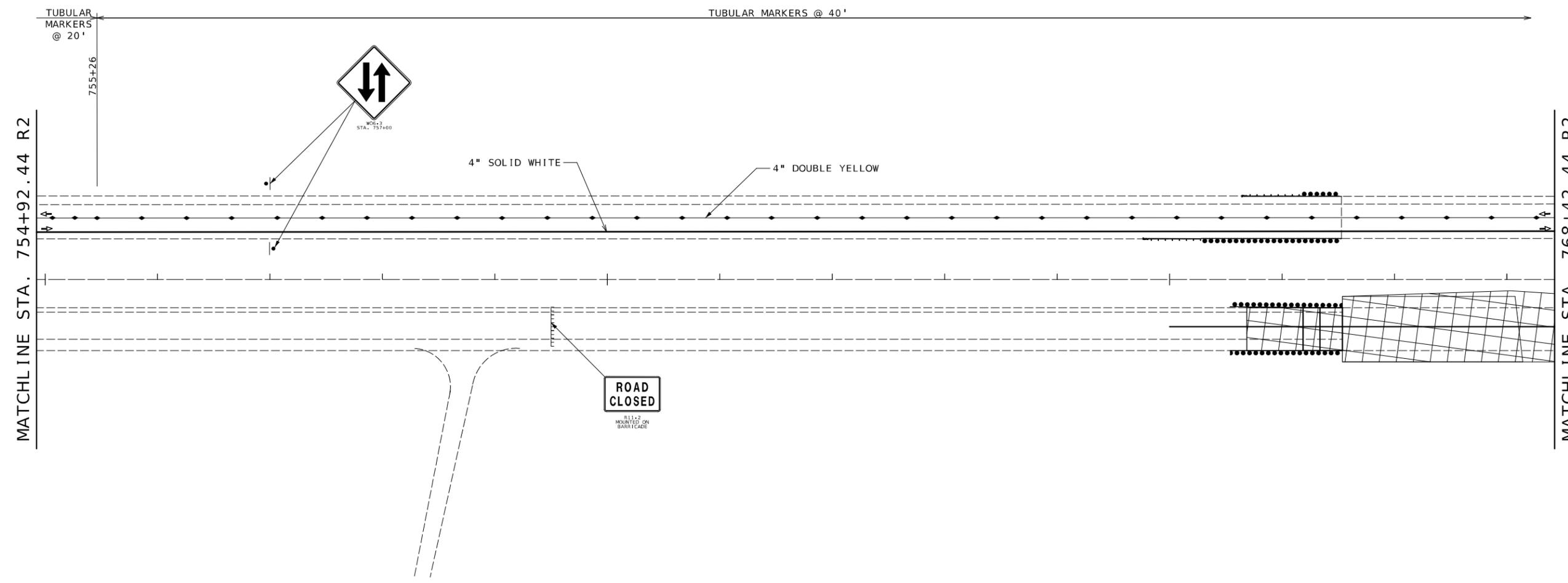
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

755

760

765



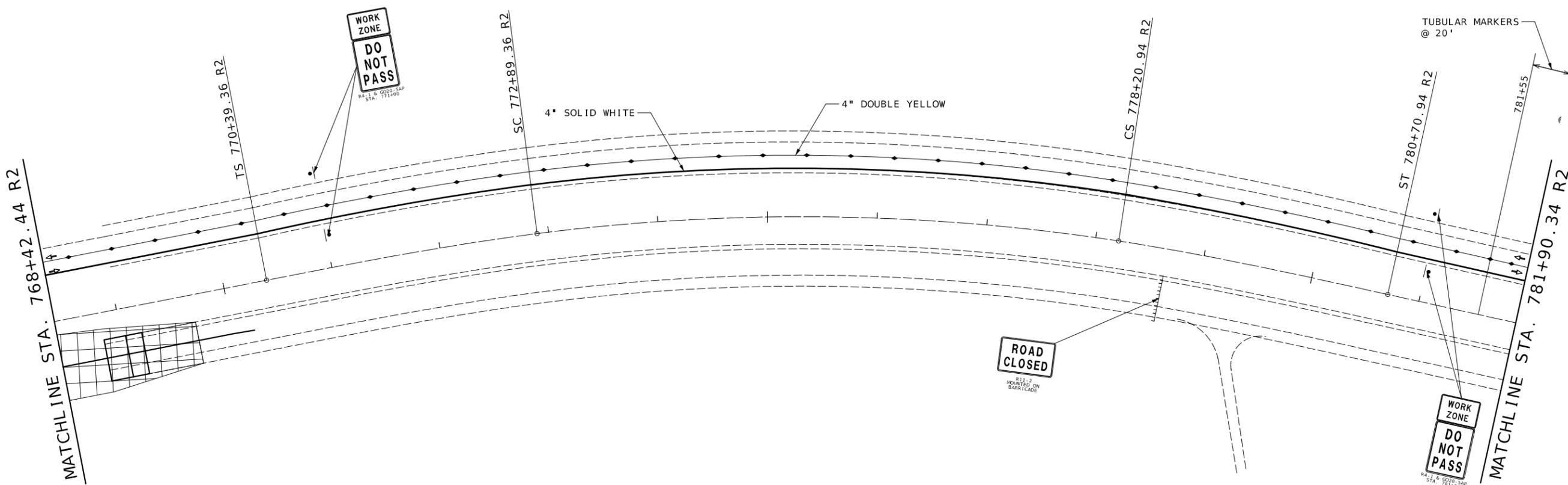
770

775

780

TUBULAR MARKERS @ 40'

TUBULAR MARKERS @ 20'

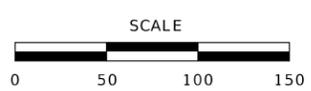


ALIGNMENT 3
 PI 772+06.06
 Ls 250.00'
 Ys 5.45'
 Xs 249.89'
 LT 166.70'
 ST 83.37'

ALIGNMENT 3
 SCS PI STA 775+60.96
 SCS TOTAL Δ 23°26'51.0"
 PC 772+89.36
 PT 778+20.94
 Δ 15°56'51.0" (RT)
 D 3°0'0.0"
 L 531.58' (ARC)
 T 267.52'
 R 1,909.86'

ALIGNMENT 3
 PI 775+56.88
 PC 772+89.36
 PT 778+20.94
 Δ 15°56'51.0" (RT)
 D 3°0'0.0"
 L 531.58' (ARC)
 T 267.52'
 R 1,909.86'

ALIGNMENT 3
 PI 779+04.31
 Ls 250.00'
 Ys 10.90'
 Xs 249.71'
 LT 166.70'
 ST 83.37'



TRAFFIC CONTROL
 PHASE 2
 SHEET 9 OF 13

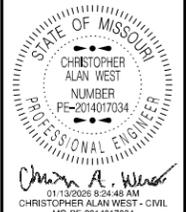
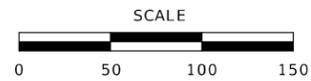
CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

Christopher A. West
 01/13/2026 8:24:01 AM
 CHRISTOPHER ALAN WEST - CIVIL
 MO-PE-2014017034

DATE PREPARED 1/5/2026	
ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 43
COUNTY JACKSON	
JOB NO. JKU0038	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
1/5/2026

ROUTE 24	STATE MO
DISTRICT KC	SHEET NO. 45

COUNTY
JACKSON

JOB NO.
JKU0038

CONTRACT ID.

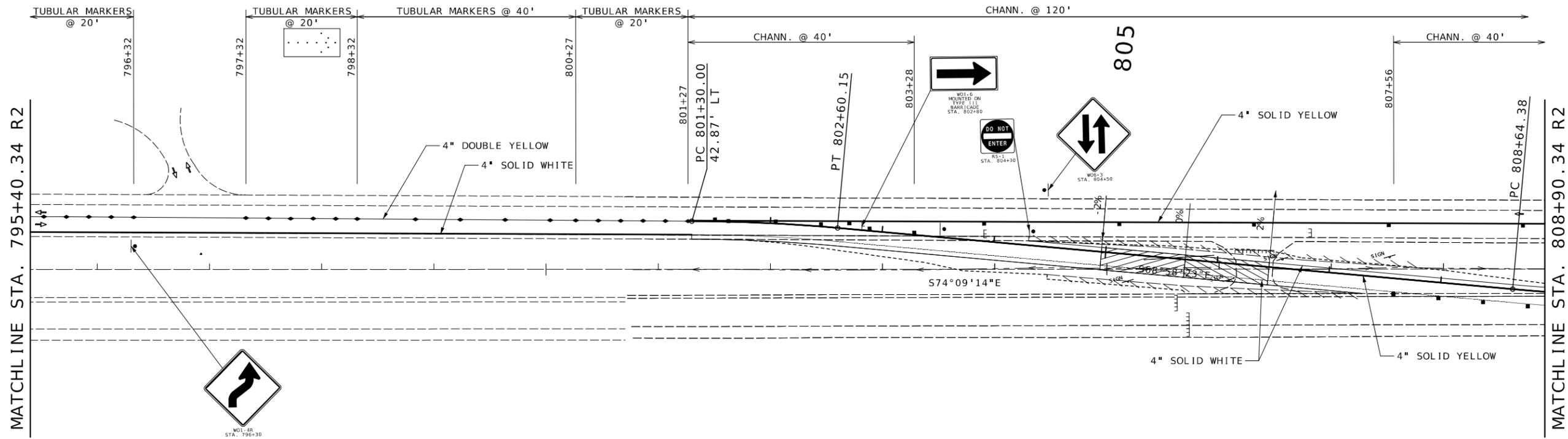
PROJECT NO.

BRIDGE NO.

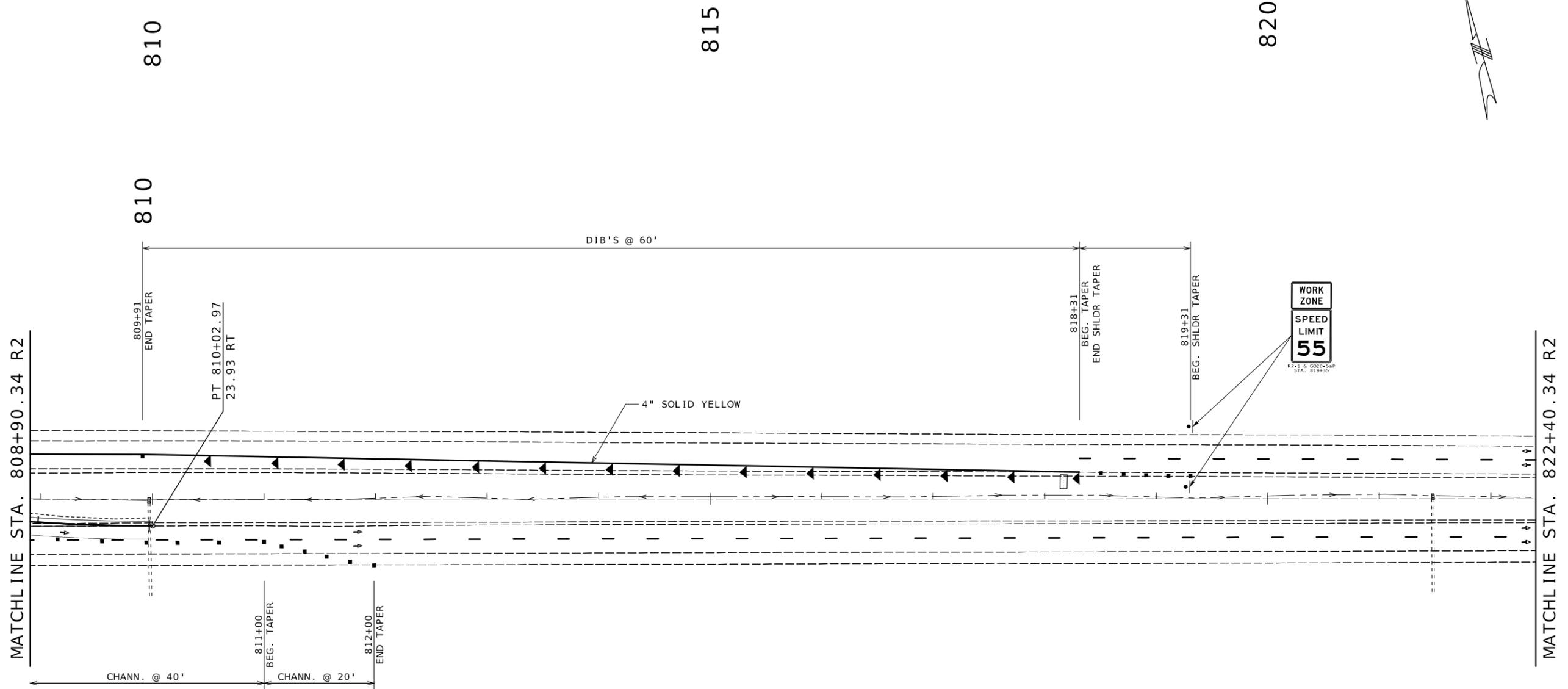
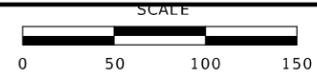
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

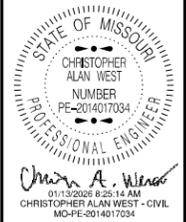


CROSSOVER 2
 PI 801+95.12
 PC 801+30.00
 PT 802+60.15
 Δ 4°59'18.3" (RT)
 D 3°49'58.1"
 L 130.15' (ARC)
 T 65.12'
 R 1,494.88'



CROSSOVER 2
 PI 809+33.72
 PC 808+64.38
 PT 810+02.97
 Δ 5°17'38.7" (LT)
 D 3°49'11.0"
 L 138.60' (ARC)
 T 69.35'
 R 1,500.00'

WORK ZONE
 SPEED LIMIT
 55
R2=1.6 G020+38P STA. 818+35



DATE PREPARED
 1/7/2026
 ROUTE 24 STATE MO
 DISTRICT KC SHEET NO. 46
 COUNTY JACKSON
 JOB NO. JKU0038
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CHRISTOPHER ALAN WEST
 NUMBER PE-2014017034
 PROFESSIONAL ENGINEER

DATE PREPARED
 1/5/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 49

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MOISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

TRAFFIC CONTROL PHASE 3 SHEET 2 OF 10

START STA 710+63.31

STA. 711+20 R2 END LANE TAPER

START LANE CLOSURE

PT 712+05.17

ROAD CLOSED

CHANNELIZERS @ 120' SPACING

PC 720+30.44

END STA 721+75.26

ROAD CLOSED

CHANNELIZERS @ 120' SPACING

MATCHLINE STA. 710+14.14 R2

MATCHLINE STA. 723+64.14 R2

CROSSOVER 1

PI 711+34.29

PC 710+63.31

PT 712+05.17

Δ 5°25'6.7" (LT)

D 3°49'11.0"

L 141.86' (ARC)

T 70.98'

R 1,500.00'

CROSSOVER 1

PI 711+34.29

PC 710+63.31

PT 712+05.17

Δ 5°25'6.7" (LT)

D 3°49'11.0"

L 141.86' (ARC)

T 70.98'

R 1,500.00'

CROSSOVER 1

PI 711+34.29

PC 710+63.31

PT 712+05.17

Δ 5°25'6.7" (LT)

D 3°49'11.0"

L 141.86' (ARC)

T 70.98'

R 1,500.00'

CROSSOVER 1

PI 711+34.29

PC 710+63.31

PT 712+05.17

Δ 5°25'6.7" (LT)

D 3°49'11.0"

L 141.86' (ARC)

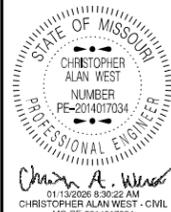
T 70.98'

R 1,500.00'

SCALE

0 50 100 150

TRAFFIC CONTROL PHASE 3 SHEET 2 OF 10



DATE PREPARED
1/5/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 53

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

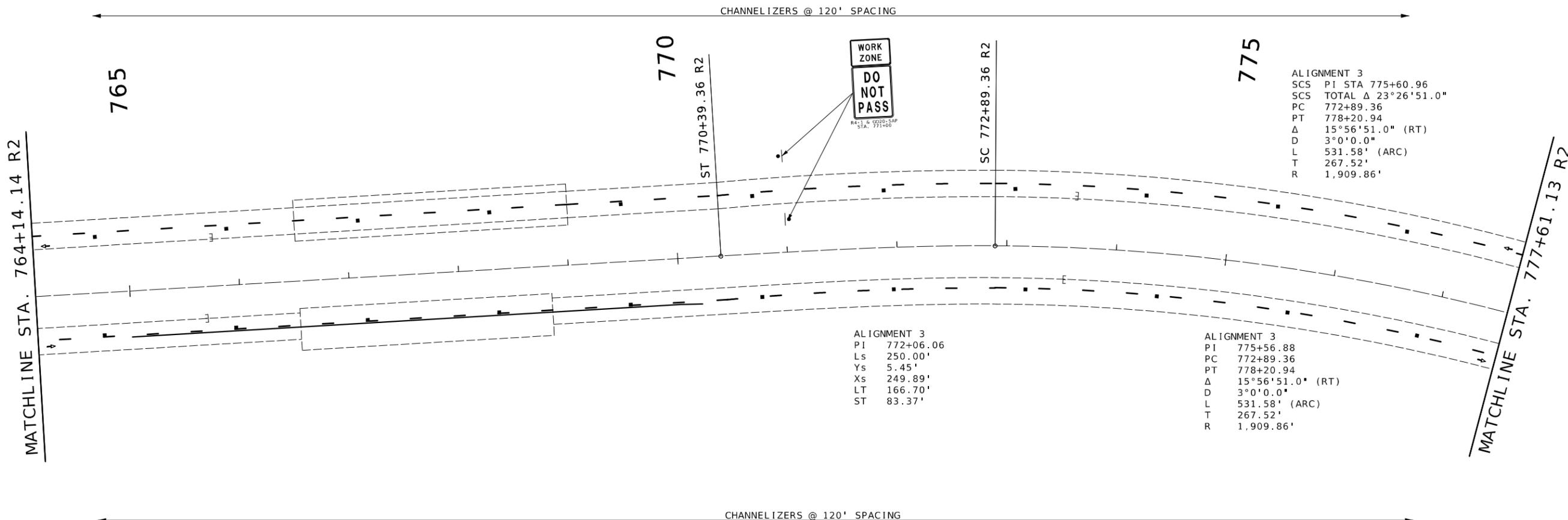
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

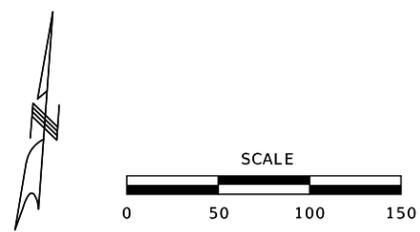
TRAFFIC CONTROL PHASE 3 SHEET 6 OF 10

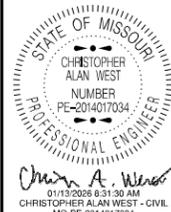


ALIGNMENT 3
SCS PI STA 775+60.96
SCS TOTAL Δ 23°26'51.0"
PC 772+89.36
PT 778+20.94
Δ 15°56'51.0" (RT)
D 3°0'0.0"
L 531.58' (ARC)
T 267.52'
R 1,909.86'

ALIGNMENT 3
PI 772+06.06
Ls 250.00'
Ys 5.45'
Xs 249.89'
LT 166.70'
ST 83.37'

ALIGNMENT 3
PI 775+56.88
PC 772+89.36
PT 778+20.94
Δ 15°56'51.0" (RT)
D 3°0'0.0"
L 531.58' (ARC)
T 267.52'
R 1,909.86'





DATE PREPARED
1/5/2026

ROUTE 24 STATE MO

DISTRICT KC SHEET NO. 56

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

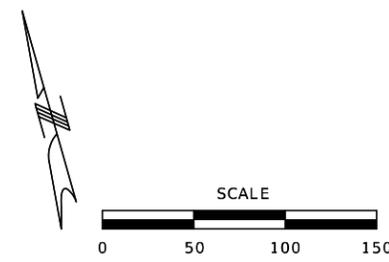
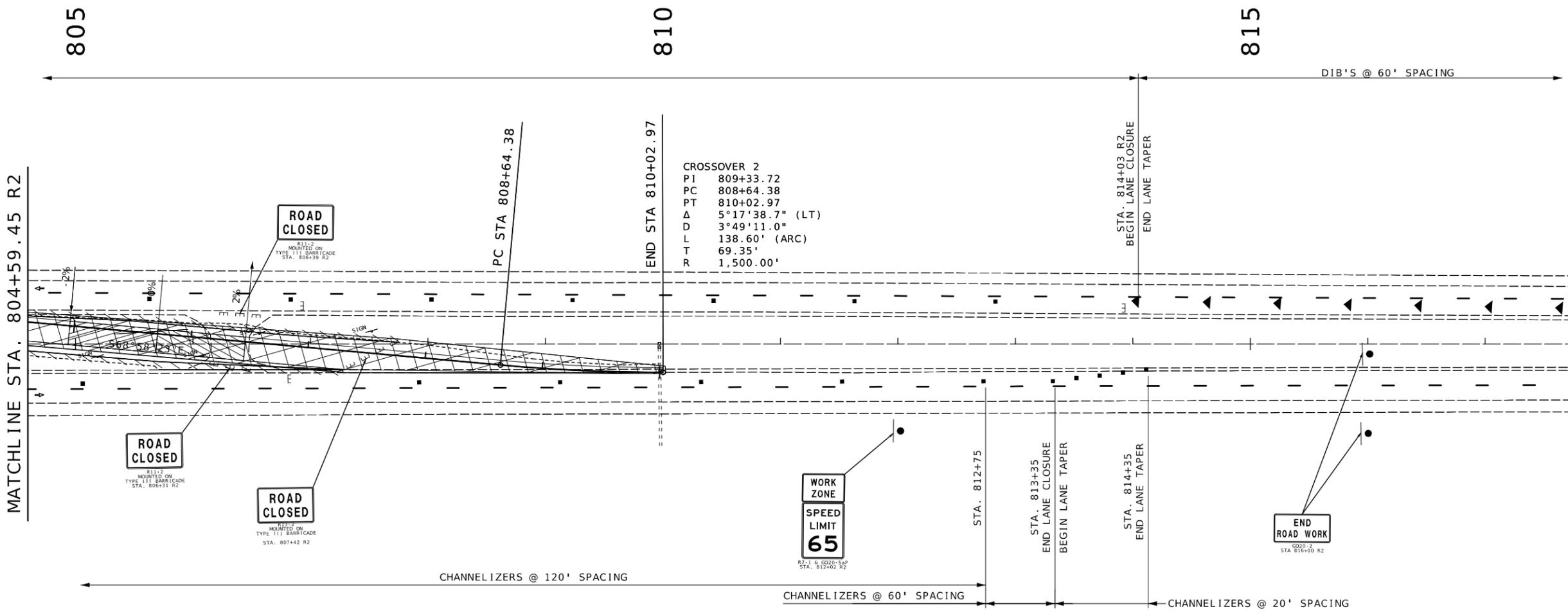
DATE

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 9 OF 10



TEMPORARY EROSION CONTROL LEGEND

—▲— SILT FENCE

GENERAL NOTES:

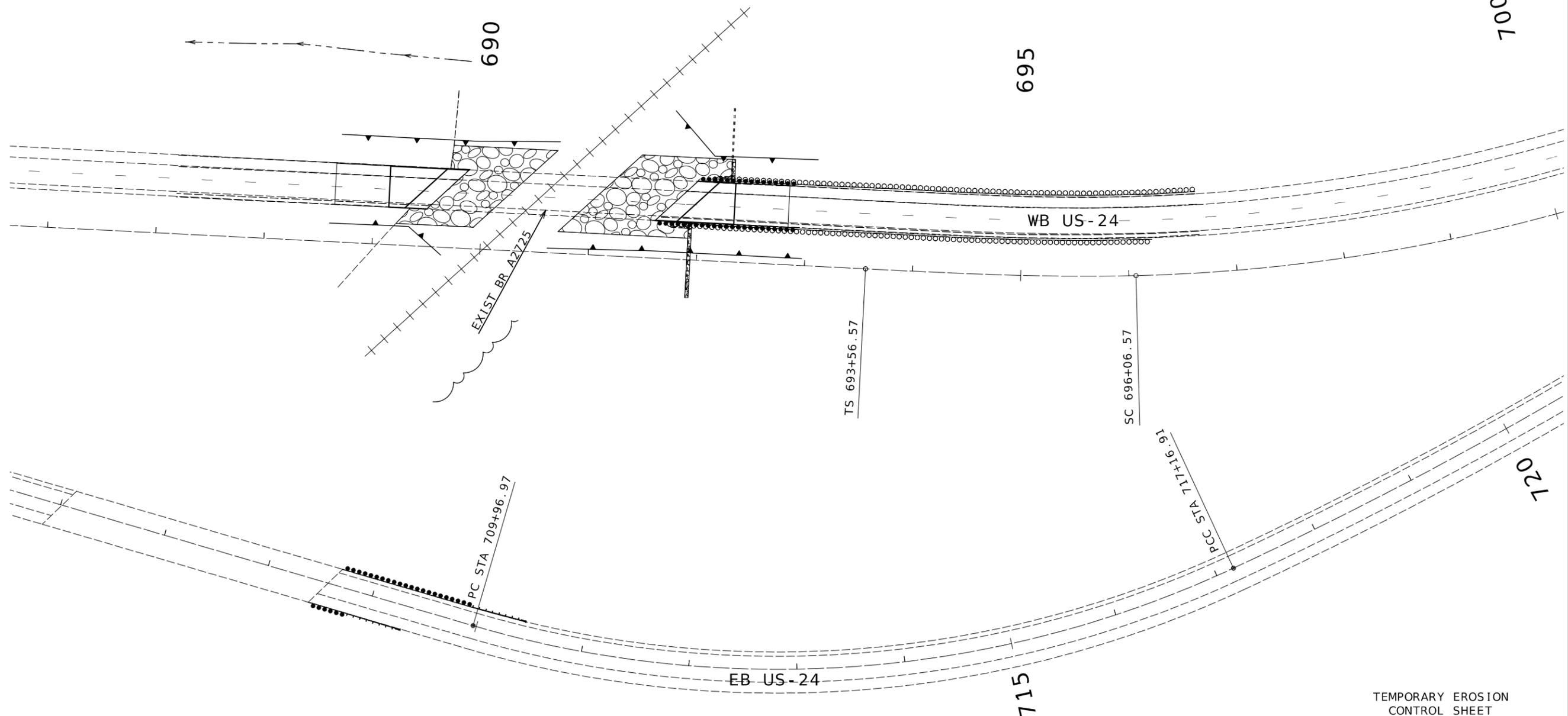
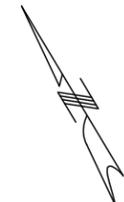
IF EROSION CONTROL MEASURES, AS SHOWN ON THE PLANS, ARE NOT SUITABLE DUE TO SITE CONDITIONS, A SUITABLE SYSTEM OF BEST MANAGEMENT PRACTICES (BMP) AS DEFINED BY MODOT'S CURRENT DEFINED PERMIT, FROM THE DEPARTMENT OF NATURAL RESOURCES, FOR CONSTRUCTION OR LAND DISTURBANCE ACTIVITIES AND SPECIFICALLY THE STORMWATER POLLUTION PREVENTION PLAN (SWPP) THEREIN, SHALL BE APPLIED AS APPROVED BY THE ENGINEER.

THE EXACT LOCATION OF THE EROSION CONTROL MEASURES WILL BE DETERMINED BY THE ENGINEER OR INSPECTOR.

GENERAL NOTES:

TEMPORARY MEASURES SHALL BE COORDINATED WITH PERMANENT CONTROL MEASURES TO ECONOMICAL, EFFECTIVE AND CONTINUOUS EROSION AND SEDIMENT CONTROL.

ALTERNATE DITCH CHECKS MAY BE USED IN THE CLEAR ZONE IN LIEU OF ROCK DITCH CHECKS IF APPROVED BY THE ENGINEER OR INSPECTOR.



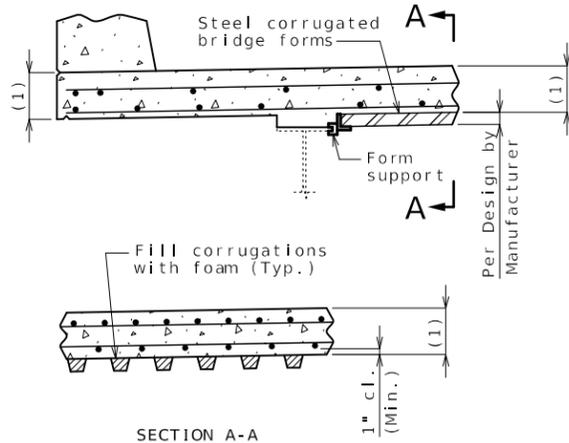
Christopher Alan West
Professional Engineer
01/08/2025 11:42:23 AM
CHRISTOPHER ALAN WEST - CIVIL
MO-PE-2014017034

DATE PREPARED
1/7/2026
ROUTE 24 STATE MO
DISTRICT KC SHEET NO. 58
COUNTY JACKSON
JOB NO. JKU0038
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



OPTIONAL STAY-IN-PLACE FORM DETAILS

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

The contractor shall provide a method of preventing the direct contact of the stay-in-place forms and connection components with uncoated weathering steel members that is approved by the engineer.

Pouring and Finishing Slab:

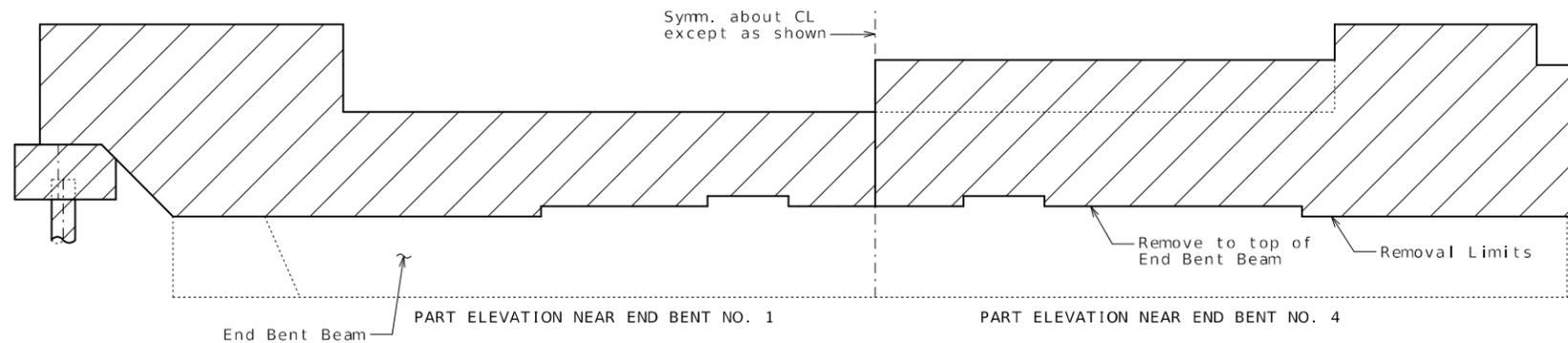
The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Haunching:

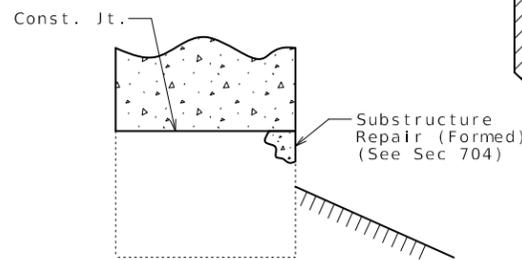
(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.



ELEVATION OF END BENT SHOWING REMOVAL

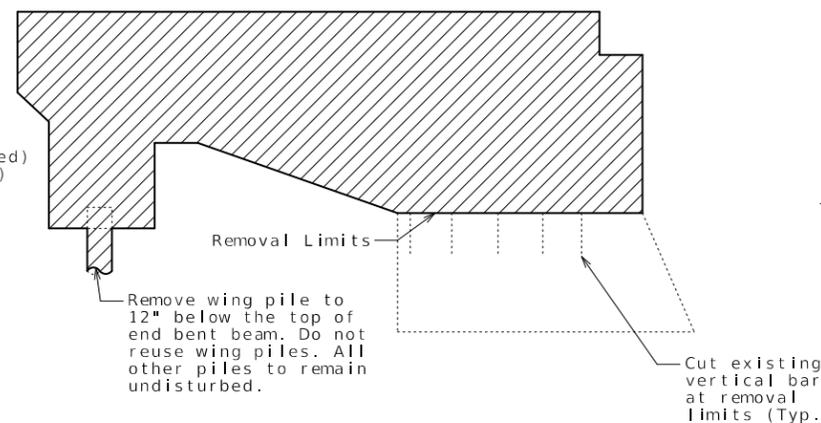
The cost of concrete removal as shown will be considered completely covered by the contract lump sum price for Partial Removal of Substructure Concrete. Vertical backwall and wingwall reinforcement to be cut off one inch below concrete removal surface and the resulting holes shall be filled with a qualified special mortar.

A smooth, level surface shall be provided at Bents No. 1 & 4 removal lines.



TYPICAL SECTION THRU END BENTS 1 SHOWING SUBSTRUCTURE REPAIR

Estimate 50 square feet at End Bent No. 1



ELEVATION OF WING SHOWING REMOVAL

Railroad requirements:

Construction within the railroad's right-of-way shall be designed to cause no interruption to the railroad's operations, enabling the track(s) to remain open to traffic per the railroad's requirements.

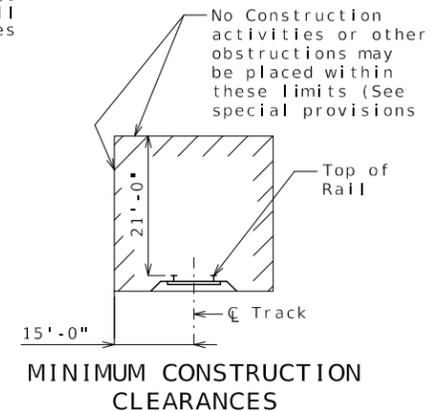
The proposed project shall not increase the quantity and/or characteristics of the flow in the railroad's ditches and/or drainage structures.

The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the railroad prior to construction.

The contractor must submit a proposed method of erosion and sediment control and have the method approved by the railroad.

Regardless of underlying land ownership, all shoring systems that impact the railroad's operations and/or supports the railroad's embankment shall be designed and constructed per current UPRR-BNSF Guidelines for Temporary Shoring. The method of shoring permissible is dependent upon the availability of track windows, if any.

All demolitions within the railroad's right-of-way and/or demolition that may impact the railroad's tracks or operations shall be in compliance with the railroad's demolition guidelines. Demolition activities shall be designed to cause no interruption to the railroad's operation, enabling the track(s) to remain open to traffic per the railroad's requirements. The method of erection permissible is dependent upon the availability of track windows, if any.



MINIMUM CONSTRUCTION CLEARANCES

Track and Ground Monitoring Plan:

The contractor must submit a track and ground monitoring plan for railroad review which complies with the current UPRR Guidelines for Track and Ground Monitoring.

This plan shall detail the site-specific monitoring points, frequency of monitoring, and the contractor's contingency measures if settlement occurs within UPRR right-of-way.

- The elevation of the existing top-of-rail profile shall be verified before beginning construction and at project closing.
- As deemed necessary by the railroad, continuous monitoring may be required as well as monitoring for 14 days after the installation. The contractor will be responsible for all costs associated with monitoring and restoring the track profile as necessary.
- All discrepancies shall be brought to the attention of the railroad.

Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all equipment.

Construction activities, including falsework/formwork, are not allowed within the Minimum Construction Clearance Envelope as they would otherwise disrupt railroad operations.

All permanent clearances shall be verified before project closing. All discrepancies shall be brought to the attention of the Railroad.

Prior to excavation, disrupting, or working on the railroad property, the contractor shall locate and protect UPRR facilities, sending requests to the UPRR "Call Before You Dig" (CBUD) email. Guidance can be found at the following web address: www.up.com/CBUD.



DATE PREPARED
12/30/2025

ROUTE 24 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY JACKSON

JOB NO. JKU0038

CONTRACT ID.

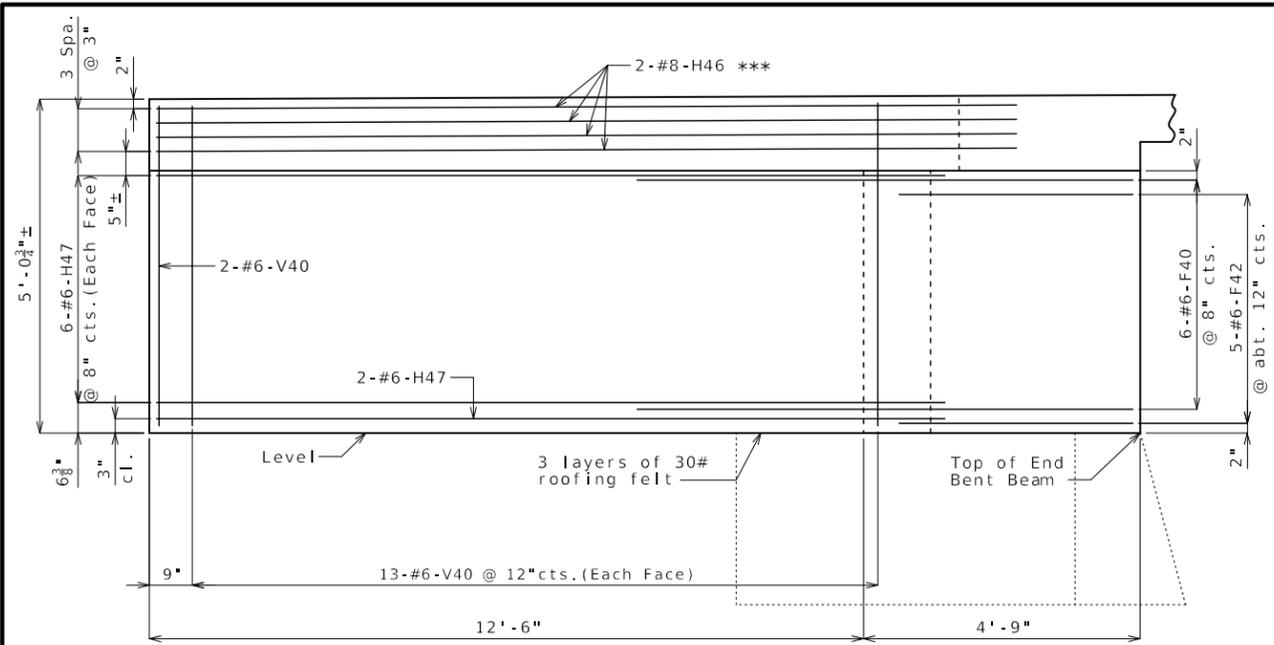
PROJECT NO.

BRIDGE NO. A27253

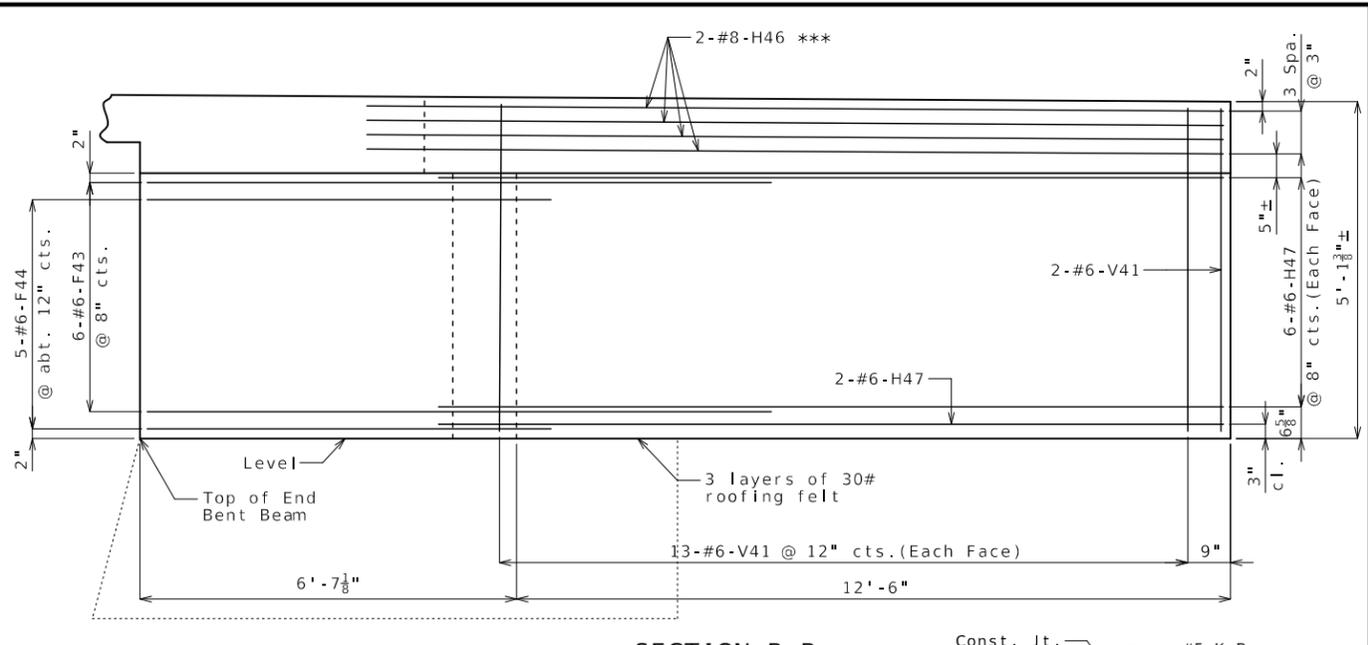
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

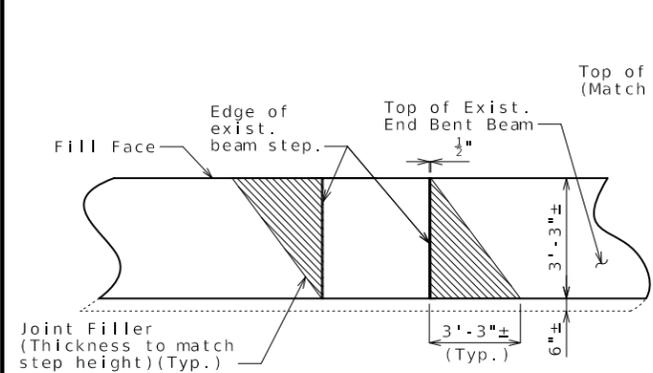


SECTION A-A

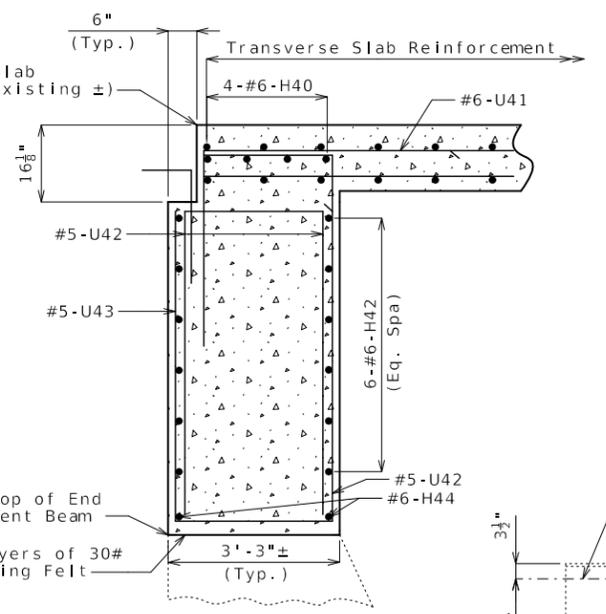


SECTION B-B

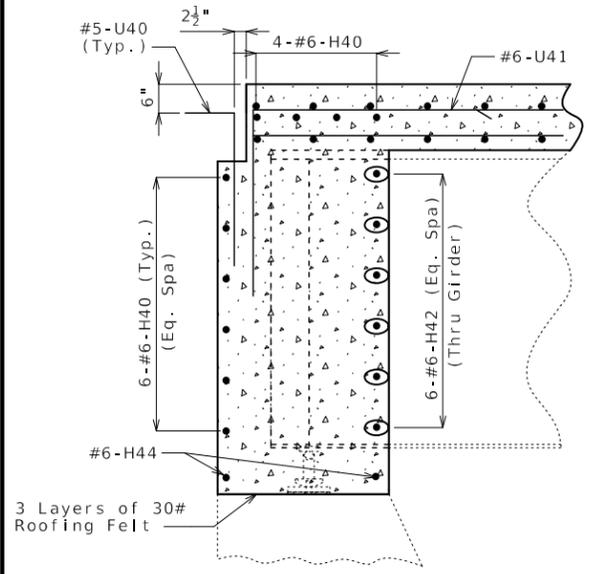
*** Place with grade



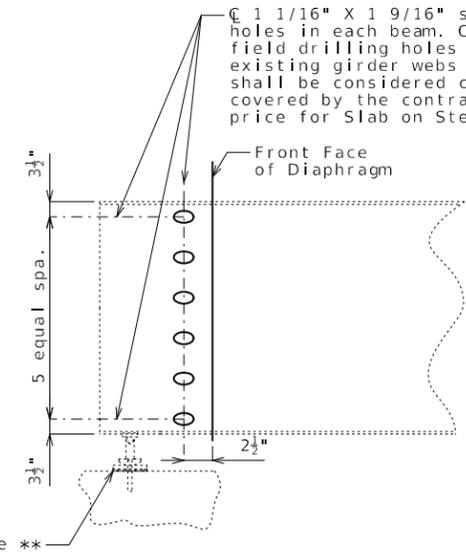
DETAILS OF JOINT FILLER AT BEAM STEPS
(Typical at all Beam steps)



SECTION D-D

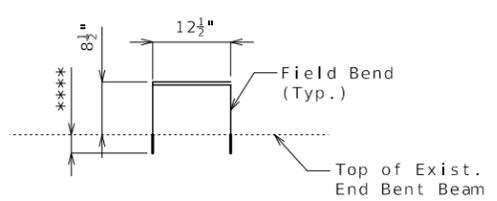


SECTION C-C



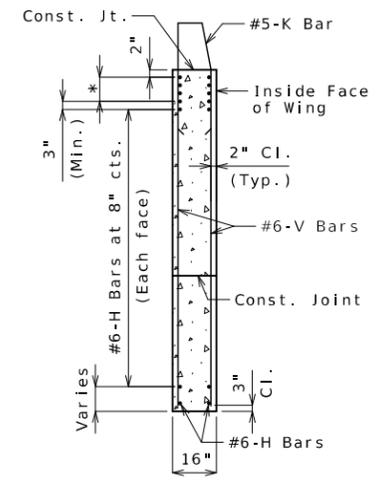
DETAIL OF WEB HOLES & BEARING ASSEMBLY

** These tasks and the temporary support of the girder ends while completing these tasks shall be considered completely covered by the contract unit price for Slab on Steel.



DETAIL OF RESIN ANCHOR SYSTEM A

**** Manufacturer's recommended embedment length (5" min.)
(20 req'd total for End Bent No.4)



TYPICAL SECTION THRU WING

* #8-H Bars at 3" cts. (Each face)(Place with grade)

Notes:

Work this sheet with Sheet No. 6.

The U-bars shall be placed parallel to C of Roadway.

All concrete and reinforcement in the end bent diaphragm, complete in place, will be considered completely covered by the contract unit price for Slab on Steel, and is included in the Table of Estimated Quantities for Slab on Steel.

Cost of cutting existing anchor bolts and placing roofing felt will be considered completely covered by the contract unit price for Slab on Steel.

The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for beams shall extend a minimum of one foot outside the face of the beam encasement. Payment for cleaning and coating steel to be encased will be completely covered by the contract unit price for Slab on Steel.

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

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.

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

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

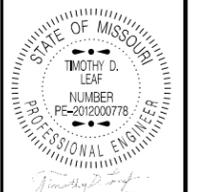
For details and reinforcement of Type D Barrier not shown, see Sheets No. 9 & 10.

DETAILS OF END BENTS NO. 4

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

Sheet No. 7 of 13

Detailed Jun. 2025
Checked Jul. 2025



DATE PREPARED 12/30/2025	
ROUTE 24	STATE MO
DISTRICT BR	SHEET NO. 7
COUNTY JACKSON	
JOB NO. JKU0038	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A27253	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bill of Reinforcing Steel																
No. Req.	Size/ Mark	Location	Codes			Dimensions								Nom. Length ft in.	Actual Length ft in.	Weight lb
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.				
Superstructure																
End Bent 1																
6	6 F10	WING BRACE	E	23S		20.00	7 8.25					7.50	18.50	9 4	9 2	83
5	6 F11	DIAPHRAGM	E	21S			4 2.50	7 2.25				2 11.75	2 11.75	11 5	11 4	85
6	6 F12	WING BRACE	E	15S		20.00	3 7.50					18.50	7.75	5 4	5 1	46
5	6 F13	DIAPHRAGM	E	21S			3 6.00	4 10.75				2 5.75	2 5.75	8 5	8 4	63
10	6 H10	DIAPHRAGM	E	20		57 1.00								57 1	57 1	857
6	6 H11	DIAPHRAGM	E	20		26 3.00								26 3	26 3	237
6	6 H12	DIAPHRAGM	E	20		33 10.00								33 10	33 10	305
2	6 H13	DIAPHRAGM	E	20		8 10.00								8 10	8 10	27
2	6 H14	DIAPHRAGM	E	20		32 9.00								32 9	32 9	98
2	6 H15	DIAPHRAGM	E	20		8 0.00								8	8	24
16	8 H16	WING	E	20		16 6.00								16 6	16 6	705
28	6 H17	WING	E	20		15 1.00								15 1	15 1	634
38	5 U10	DIAPHRAGM	E	19S		2 0.00	15.00							3 3	3 2	126
75	5 U11	DIAPHRAGM	E	19S		3 0.00	6 3.00							9 3	9 2	717
96	5 U12	DIAPHRAGM	E	10S			3 7.00	4 2.75						11 5	11 2	1,118
48	5 U13	DIAPHRAGM	E	10S			2 8.00	3 6.25						8 10	8 8	434
12	4 U14	SHEAR BLOCK	E	21S		2 0.00	3 7.75	2 0.00				2 7.00	2 7.00	7 8	7 3	58
28	6 V10	WING	E	20		4 10.00								4 10	4 10	203
28	6 V11	WING	E	20		4 11.00								4 11	4 11	207
End Bent 4																
6	6 F40	WING BRACE	E	23S		20.00	7 8.25					7.50	18.50	9 4	9 2	83
5	6 F41	DIAPHRAGM	E	21S			4 2.50	7 2.25				2 11.75	2 11.75	11 5	11 4	85
6	6 F42	WING BRACE	E	15S		20.00	3 7.50					18.50	7.75	5 4	5 1	46
5	6 F43	DIAPHRAGM	E	21S			3 6.00	4 10.75				2 5.75	2 5.75	8 5	8 4	63
10	6 H40	DIAPHRAGM	E	20		57 1.00								57 1	57 1	857
6	6 H41	DIAPHRAGM	E	20		26 3.00								26 3	26 3	237
6	6 H42	DIAPHRAGM	E	20		33 10.00								33 10	33 10	305
2	6 H43	DIAPHRAGM	E	20		8 10.00								8 10	8 10	27
2	6 H44	DIAPHRAGM	E	20		32 9.00								32 9	32 9	98
2	6 H45	DIAPHRAGM	E	20		8 0.00								8	8	24
16	8 H46	WING	E	20		16 6.00								16 6	16 6	705
28	6 H47	WING	E	20		15 1.00								15 1	15 1	634
38	5 U40	DIAPHRAGM	E	19S		2 0.00	15.00							3 3	3 2	126
75	5 U41	DIAPHRAGM	E	19S		3 0.00	6 3.00							9 3	9 2	717
96	5 U42	DIAPHRAGM	E	10S			3 7.00	4 2.75						11 5	11 2	1,118
48	5 U43	DIAPHRAGM	E	10S			2 8.00	3 6.25						8 10	8 8	434
12	4 U44	SHEAR BLOCK	E	21S		2 0.00	3 7.75					2 7.00	2 7.00	5 8	5 3	42
28	6 V40	WING	E	20		4 10.00								4 10	4 10	203
28	6 V41	WING	E	20		4 11.00								4 11	4 11	207
Slab																
340	5 S1	SLAB	E	20		55 8.00								55 8	55 8	19,741
128	6 S2	SLAB	E	20		49 0.00								49	49	9,421
376	6 S3	SLAB	E	20		40 5.00								40 5	40 5	22,825
168	6 S4	SLAB	E	20		2 40 1.25								40 1	40 1	
		Incr. = 5.500"				2 0.75								2 1	2 1	5,320
345	5 S5	SLAB	E	20		40 5.00								40 5	40 5	14,543
154	5 S6	SLAB	E	20		2 40 0.00								40	40	
		Incr. = 6.000"				2 0.00								2	2	3,373
440	4 S7	SLAB	E	10S		6.00	4.00	6.50	6.00					2 3	1 10	539
272	4 S8	SLAB	E	10S		12.00	4.00	6.50	12.00					3 3	2 10	515
Barrier																
Type D																
20	5 K1	BARRIER	E	27S		3 5.00	9.25	5.25	2 11.75			5.25	1.00	7 7	7 5	155
92	5 K2	BARRIER	E	27S		3 5.00	9.25	14.50	2 2.75			14.25	2.75	7 8	7 5	712
4	5 K3	BARRIER	E	27S		22.50	9.25	14.50	7.75	12.00		14.25	2.75	5 6	5 2	22
20	5 K4	BARRIER	E	19S	4	2 4.25	10.00							3 2	3 1	64
		Incr. = 0.500"				2 6.25	10.00							3 4	3 3	66
20	5 K5	BARRIER	E	38S	4			18.50	9.50	8.25	18.00	4.00		3	2 11	61

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.

For bending diagrams and steel reinforcing totals, see Sheet No. 12.

Detailed Jul. 2025
Checked Aug. 2025

BILL OF REINFORCING STEEL

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

All bars shall be ASTM A615 Grade 60.

Sheet No. 13 of 13

Bill of Reinforcing Steel																				
No. Req.	Size/ Mark	Location	Codes			Dimensions								Nom. Length ft in.	Actual Length ft in.	Weight lb				
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.								
		Incr. = 0.500"											20.50	9.50	8.25	20.00	4.50	3 2	3 1	63
12	5 K6	BARRIER	E	19S		2 6.75	10.00											3 5	3 3	41
12	5 K7	BARRIER	E	21S			2 6.75	10.00				2 6.00	6.25					3 5	3 4	42
36	5 K8	BARRIER	E	19S	4	2 8.50	10.00											3 7	3 5	128
		Incr. = 0.750"				3 2.50	10.00											4 1	3 11	138
36	5 K9	BARRIER	E	21S	4		2 8.50	10.00				2 7.75	6.75					3 7	3 6	131
		Incr. = 0.750"				3 2.50	10.00					3 1.75	7.75					4 1	4	141
12	5 K10	BARRIER	E	19S		3 3.00	10.00											4 1	4	50
12	5 K11	BARRIER	E	21S			3 3.00	10.00				3 2.25	7.75					4 1	4	50
24	5 K12	BARRIER	E	20		10 9.00												10 9	10 9	269
12	5 K13	BARRIER	E	20	4	10 0.00	0.00	0.00				0.00	0.00					10	10	125
		Incr. = 36.000"				4 0.00	0.00	0.00				0.00	0.00					4	4	88
24	5 K14	BARRIER	E	20		11 6.00	0.00	0.00				0.00	0.00					11 6	11 6	288
12	5 K15	BARRIER	E	20	4	10 9.00	0.00	0.00				0.00	0.00					10 9	10 9	135
		Incr. = 36.000"				4 9.00	0.00	0.00				0.00	0.00					4 9	4 9	97
422	5 R1	BARRIER	E	26		3 3.00	5.50	2.25	3 1.25	5.50	3 0.75	6.75		7	6 9	2,971				
422	5 R2	BARRIER	E	19S		20.50	9.50							2 6	2 5	1,064				
422	5 R3	BARRIER	E	27S			9.50	15.25	5.00	12.00	15.00	3.00		3 6	3 4	1,467				
80	5 R4	BARRIER	E	20		11 9.00								11 9	11 9	980				
20	5 R5	BARRIER	E	20		48 5.00								48 5	48 5	1,010				
20	5 R6	BARRIER	E	20		57 9.00								57 9	57 9	1,205				
20	5 R7	BARRIER	E	20		32 1.00								32 1	32 1	669				
Slip-Form																				
40	5 C1	SLIP FORM	E	20		12 0.00								12	12	501				
8	5 C2	SLIP FORM	E	20		5 0.00								5 9	5 9	48				

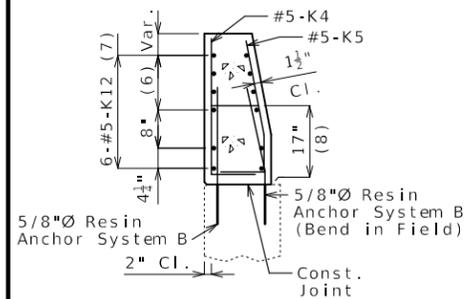
Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

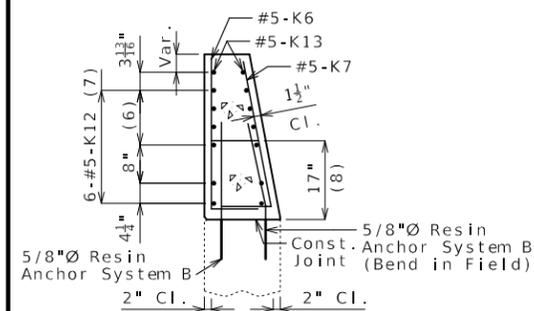
V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.



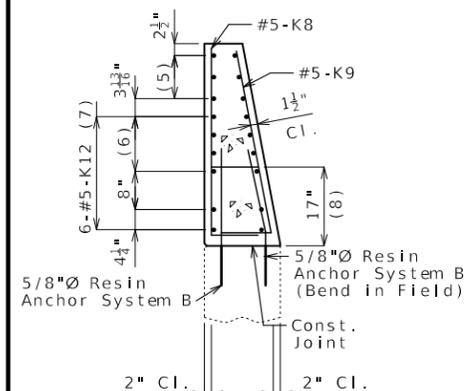
DATE PREPARED
12/30/2025
ROUTE 24 STATE MO
DISTRICT BR SHEET NO. 13
COUNTY JACKSON
JOB NO. JKU0038
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A27253



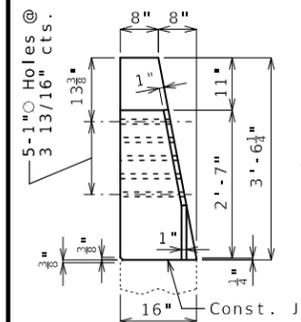
SECTION A-A



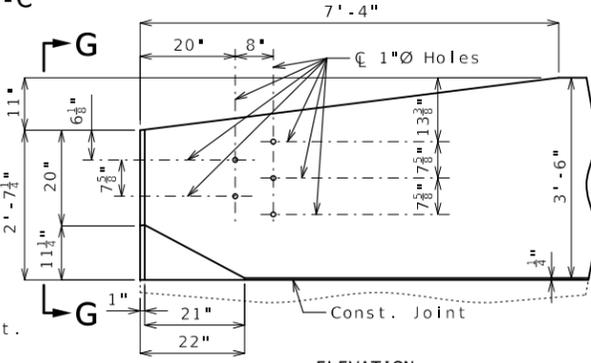
SECTION B-B



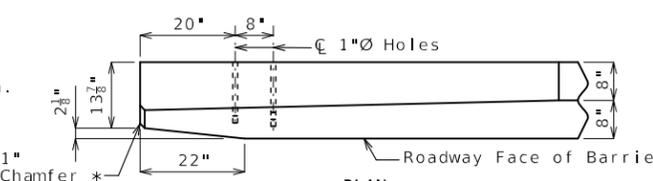
SECTION C-C



ELEVATION G-G

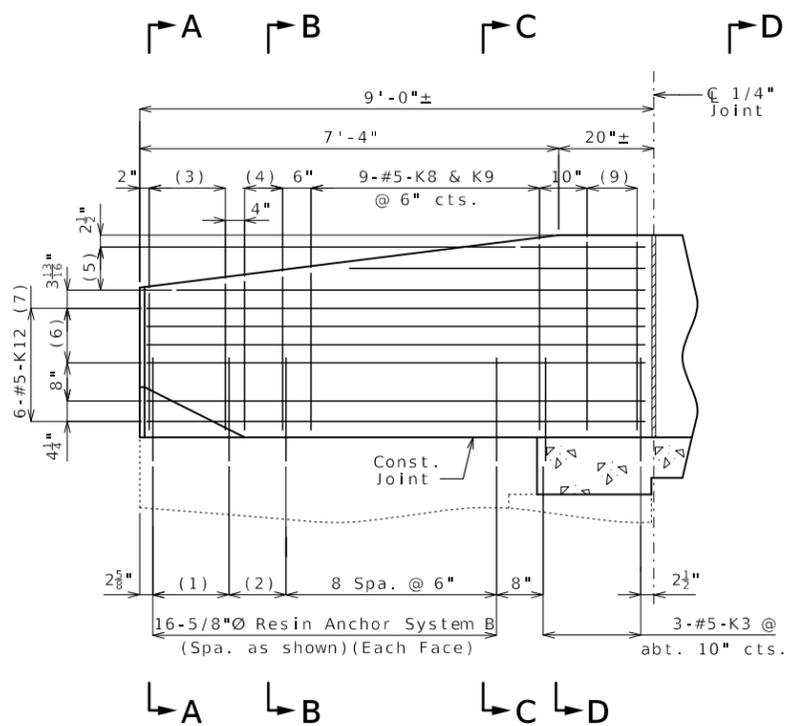


ELEVATION

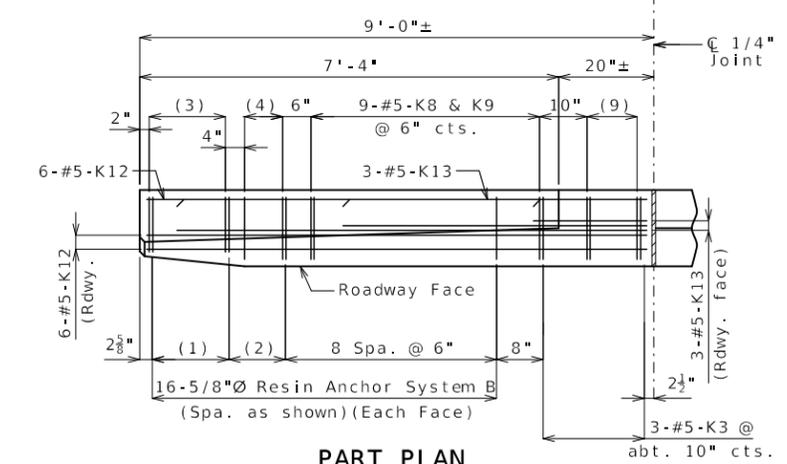


PLAN

DETAILS OF GUARD RAIL ATTACHMENT



PART ELEVATION



PART PLAN

DETAIL OF RESIN ANCHOR SYSTEMS

Note: For Resin Anchor notes see Sheet No. 2.

General Notes:

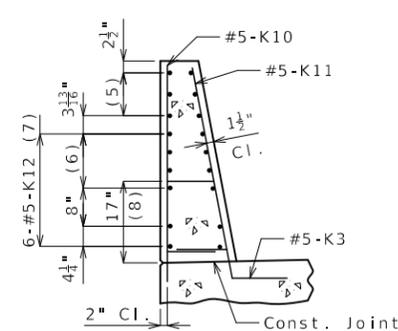
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered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

Reinforcing Steel:

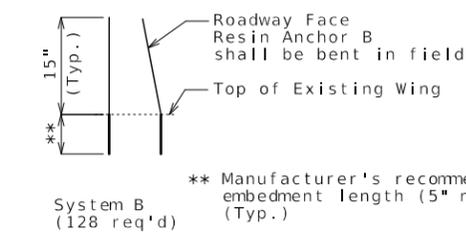
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

TYPE D BARRIER AT END BENTS

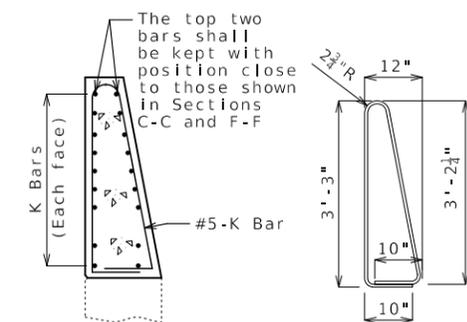
(Left barrier shown, right barrier similar)



SECTION D-D



- (1) 5-5/8"Ø Resin Anchors System B @ 4" cts.
- (2) 3 spaces @ 4"
- (3) 5-#5-K4 & K5 @ 4" cts.
- (4) 3-#5-K6 & K7 @ 4" cts.
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face
- (6) 3 spaces @ 3 11/16"
- (7) Spaced as shown, each face
- (8) To top of bar
- (9) 2-#5-K10 & K11 @ abt. 10" cts.



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

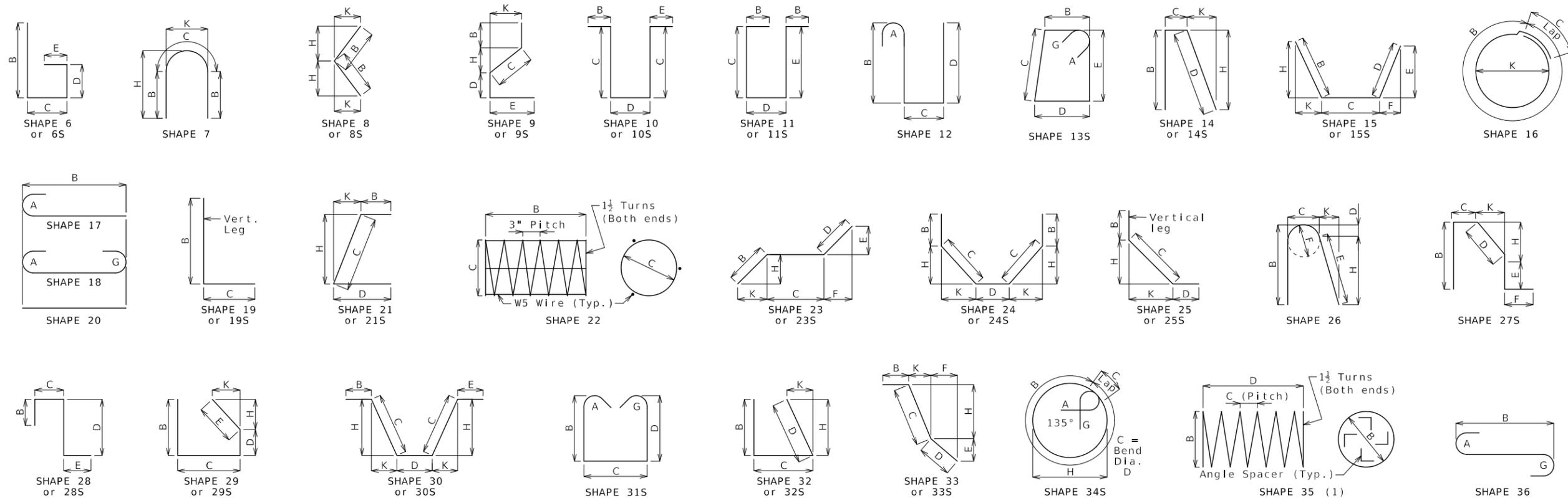
All dimensions are out to out.

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER

DATE PREPARED 12/31/2025	
ROUTE 24	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY JACKSON	
JOB NO. JKU0038	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A27262	
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

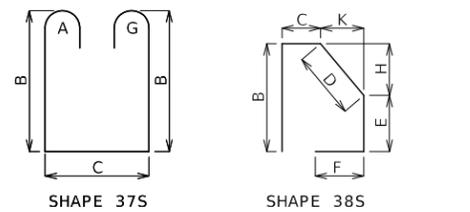


Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes					
Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3 3/4"	10"	7"	5"
#6	1	4 1/2"	12"	8 1/4"	6"
#7	2	5 1/4"	14"	9 3/4"	7"
	3	7"	15"	11 1/2"	8 3/4"
#8	2	6"	16"	11"	8"
	3	8"	17"	13 1/4"	10"
#9	1	9 1/2"	19 1/2"	15 1/2"	11 3/4"
#10	1	10 3/4"	22"	17 1/2"	13 1/4"
#11	1	12"	24 1/2"	19 1/2"	14 7/8"
#14	1	18 1/4"	31 1/4"	27 1/2"	21 5/8"
#18	1	24"	41 1/2"	36 1/4"	28 1/2"

Stirrup Pin Bend Shapes (S)							
Size	Case	D	A or G		H	J	
			90°	135°	180°	135°	180°
#4	2	2"	4 1/2"	4 1/2"	5"	2 5/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/4"	7"	3 5/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 3/8"	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.



BENDING DIAGRAMS

All dimensions are out to out. (1) Shall be a deformed or plain spiral bar or wire.

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.

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		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
W5	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	41,446	11,939	1,043	0	54,428
6	0	0	39,963	0	0	0	39,963
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
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	81,409	11,939	1,043	0	94,391

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

STATE OF MISSOURI
 TIMOTHY D. LEAF
 NUMBER
 PE-201200778
 PROFESSIONAL ENGINEER

DATE PREPARED 12/31/2025	
ROUTE 24	STATE MO
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