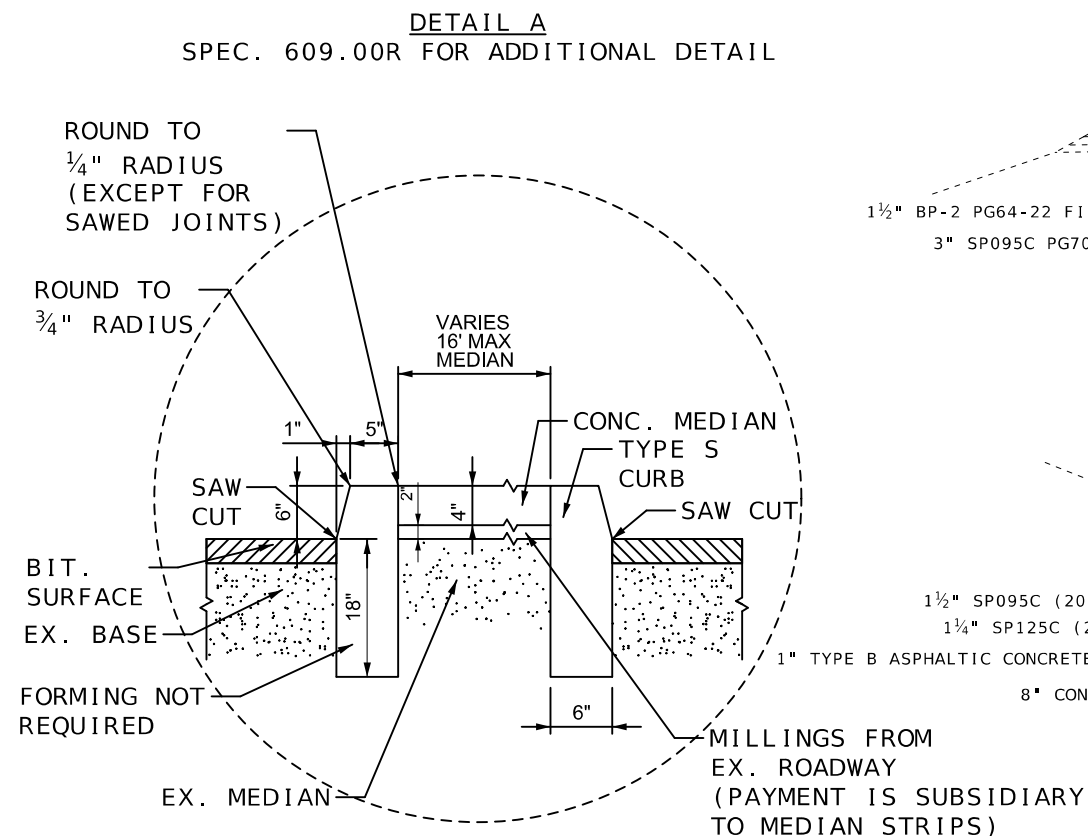
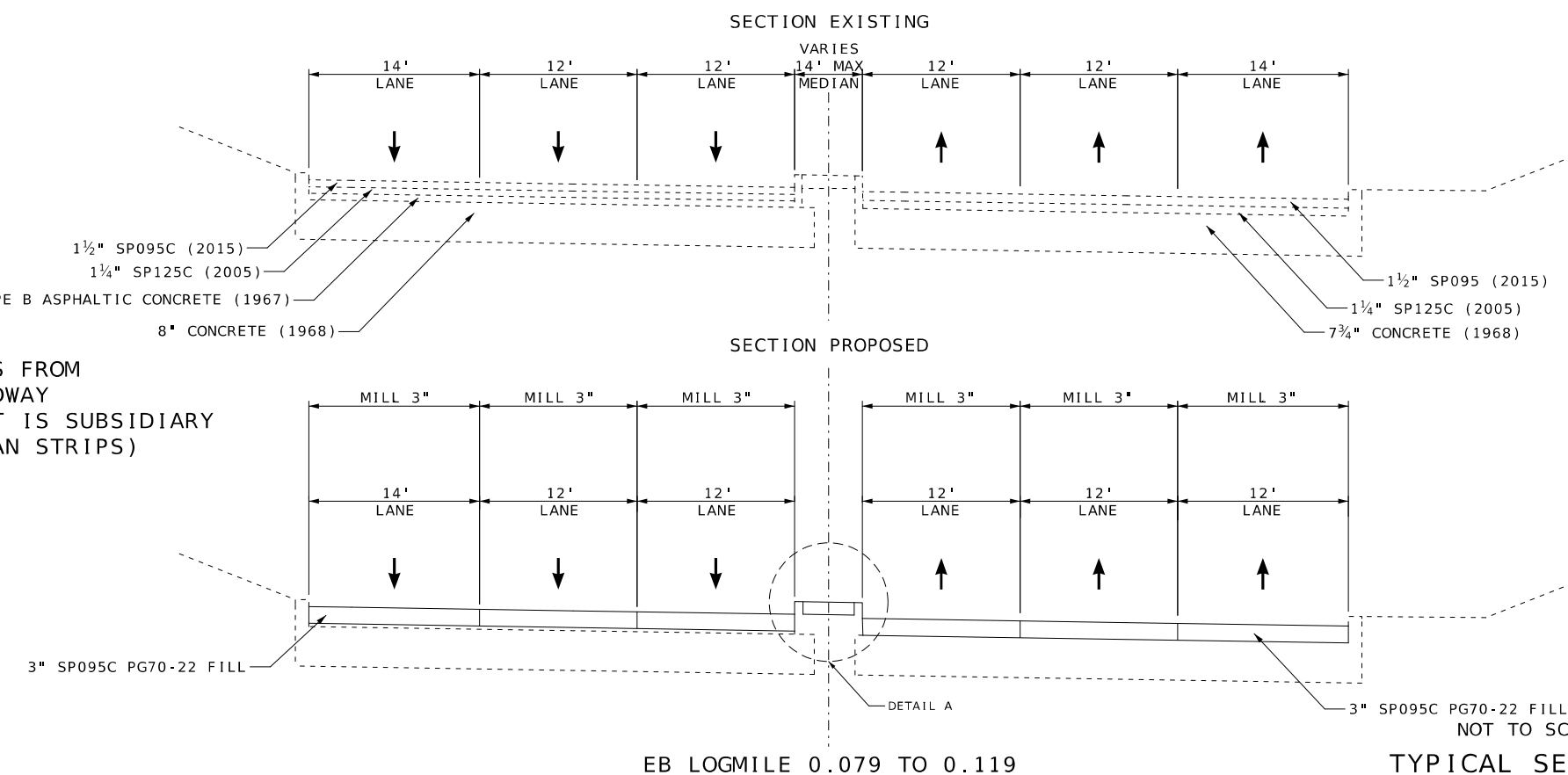
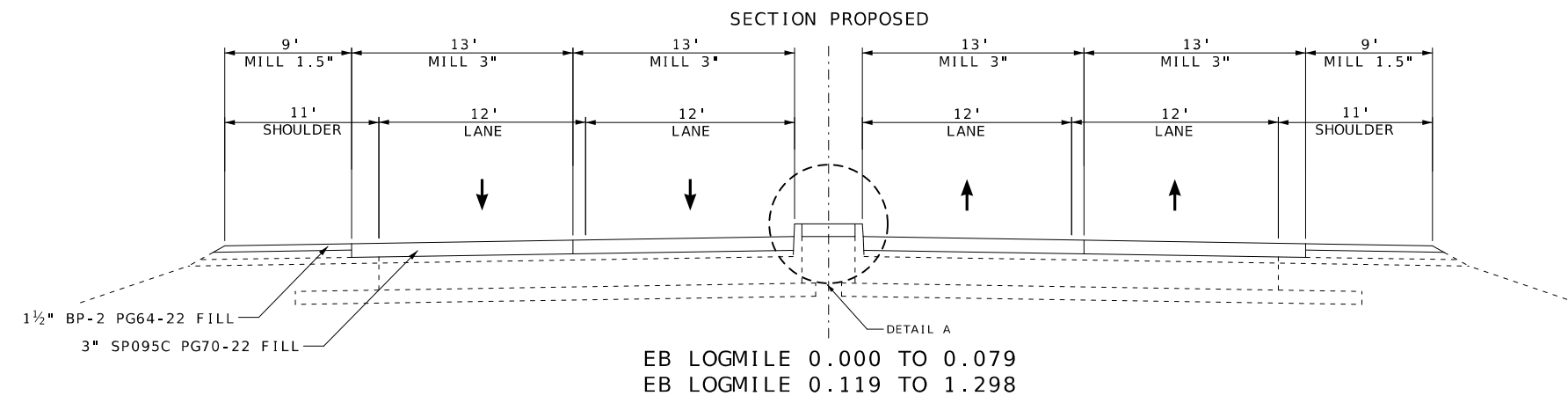
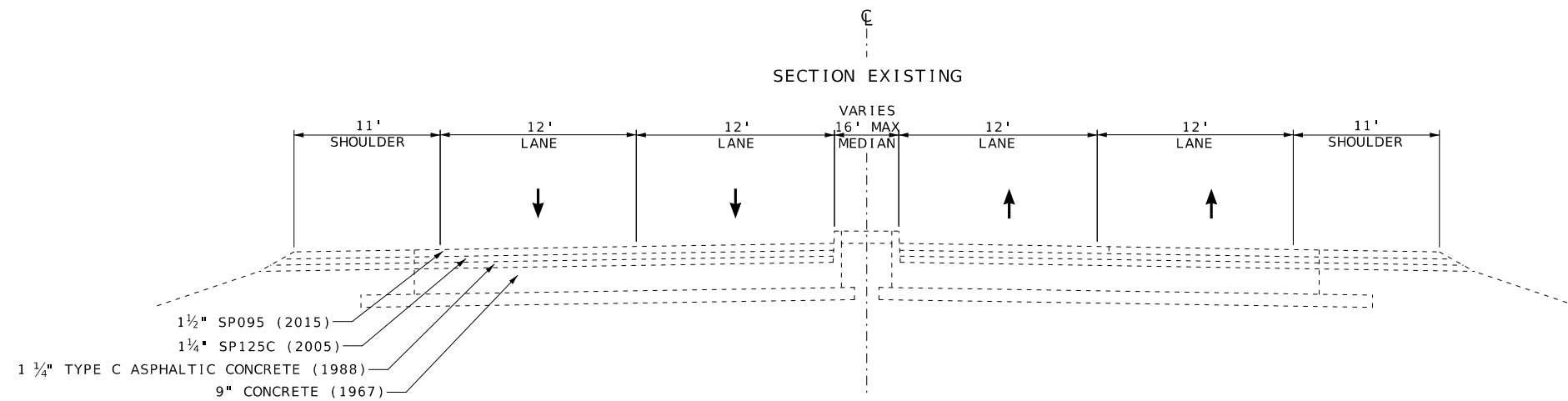




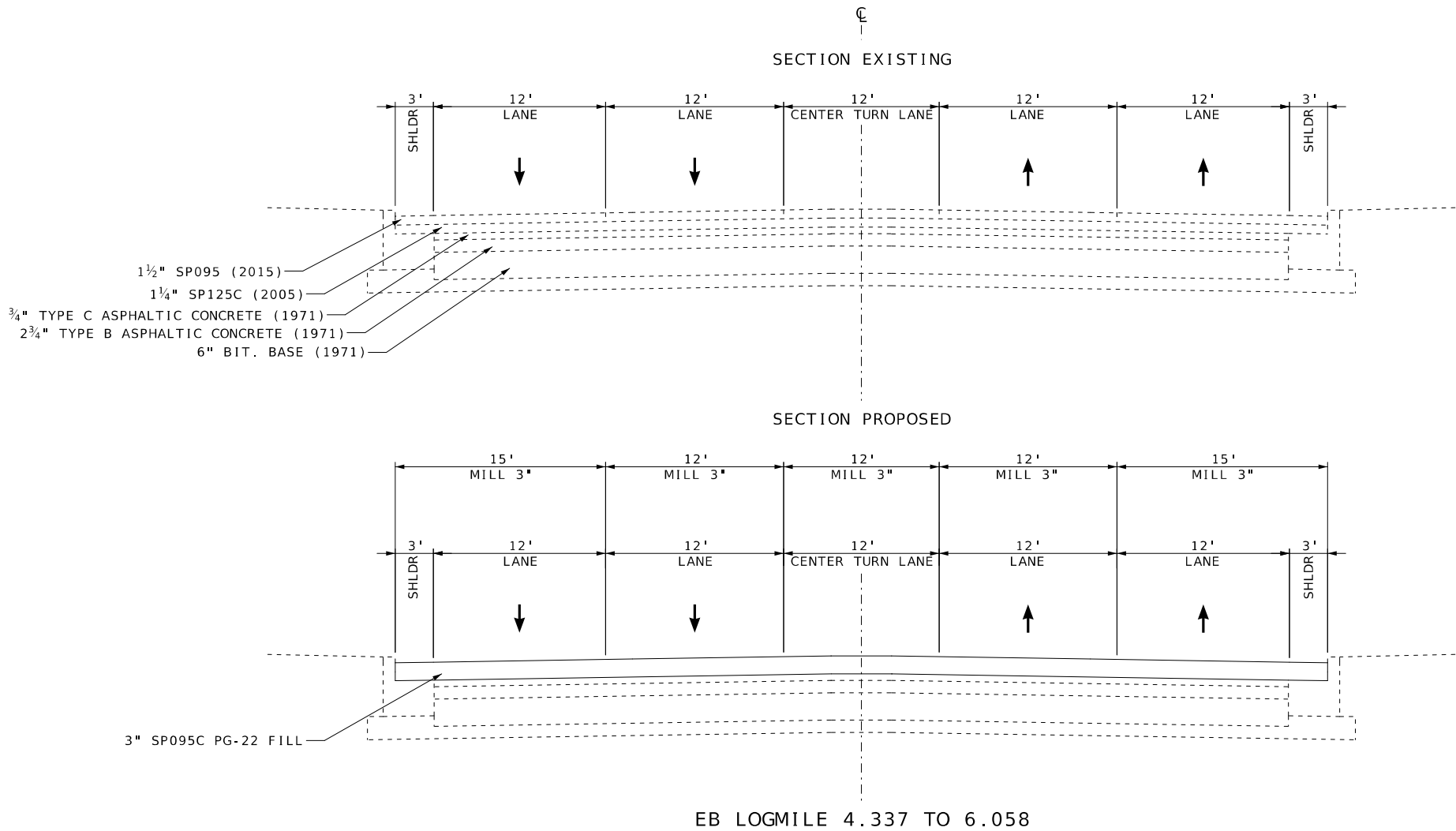
| ASPHALT FACTORS  |                                |                            |
|------------------|--------------------------------|----------------------------|
| MIX<br>TYPE      | ASPHALT<br>FACTOR<br>(TONS/CY) | TACK<br>FACTOR<br>(GAL/SY) |
| SP095 W/ PG70-22 | 1.969                          | 0.1                        |
| BP2 W/ PG64-22   | 1.987                          | 0.1                        |

FOR INFORMATIONAL PURPOSES ONLY

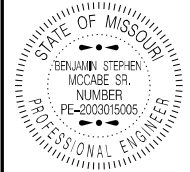


- NOTES
- SAW CUTS HAVE NO DIRECT PAY
  - CONTRACTOR MAY USE MILLINGS OR OTHER UNDER PROPOSED CONC MEDIAN AS APPROVED BY THE ENGINEER





NOT TO SCALE  
TYPICAL SECTIONS  
SHEET 3 OF 3



DATE PREPARED  
9/17/2025

ROUTE 78 STATE MO

DISTRICT KC SHEET NO. 2

COUNTY JACKSON

JOB NO. JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

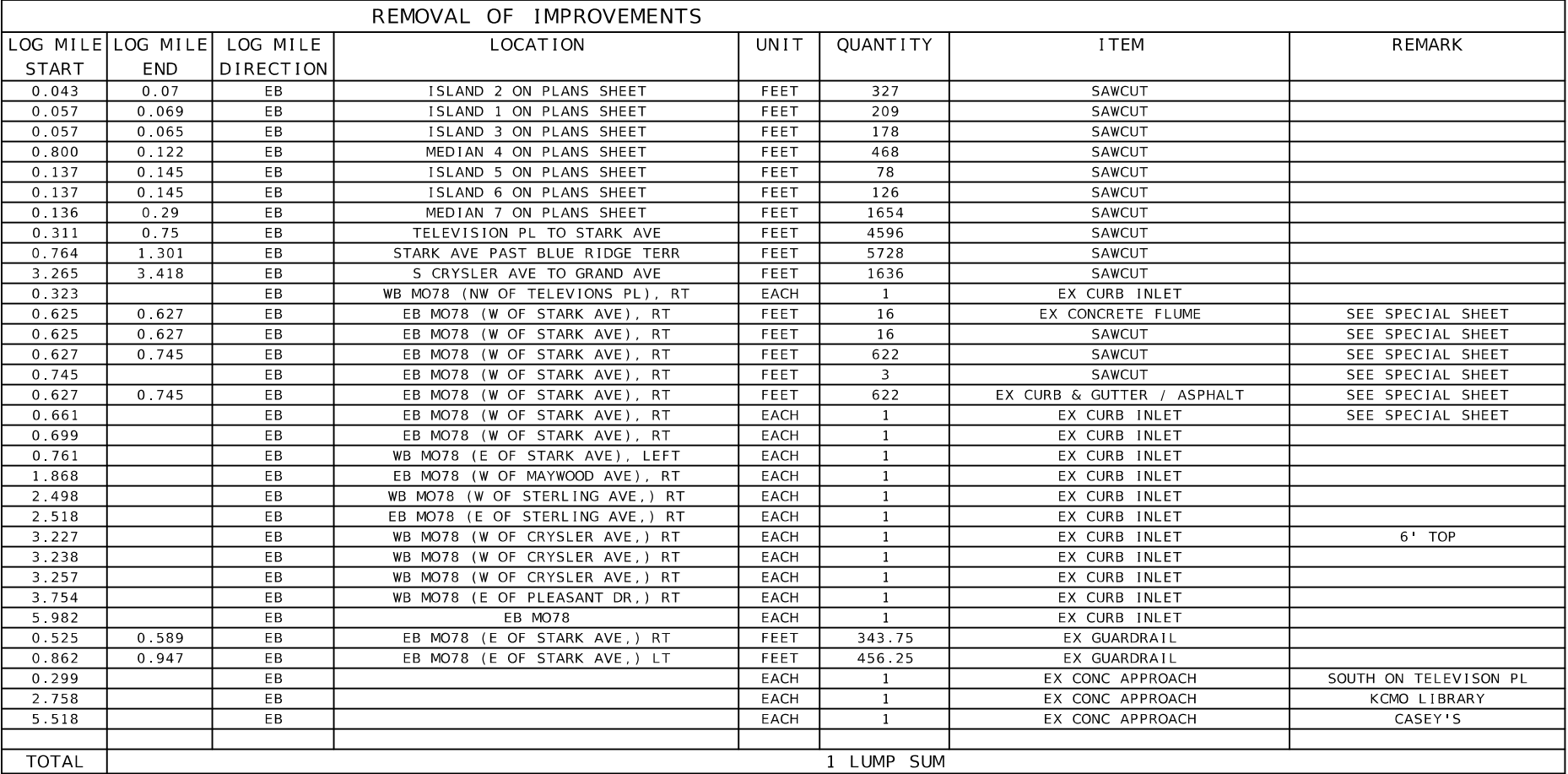
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

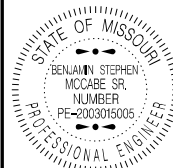
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

MODOT





|              |
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| MOBILIZATION |
| 1 LUMP SUM   |



Benjamin Stephen McCabe  
09/17/2025 1:20:55 PM  
BENJAMIN STEPHEN MCCABE SR - CIVIL  
MO-PE-2003015005

DATE PREPARED

9/17/2025

|       |       |
|-------|-------|
| ROUTE | STATE |
| 70    | MO    |

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| 78 | MO |
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DISTRICT SHEET NO  
KC 3

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| KC     | 3 |
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COUNTY  
LACKSON

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| JACKSON |
| LOB NO. |

IKU0042

CONTRACT ID.

*Journal of Management Education* 36(8)

|             |
|-------------|
| PROJECT NO. |
|-------------|

**Keywords:** child sexual abuse; disclosure; social support

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITAL  
JEFFERSON CITY, MO 65102











DATE PREPARED

9/17/2025

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| 78 | MO |
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BRIDGE NO.

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10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

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10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

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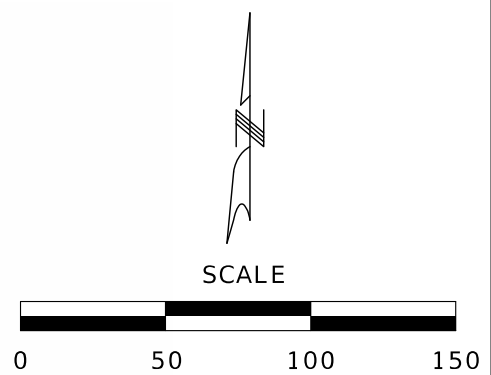
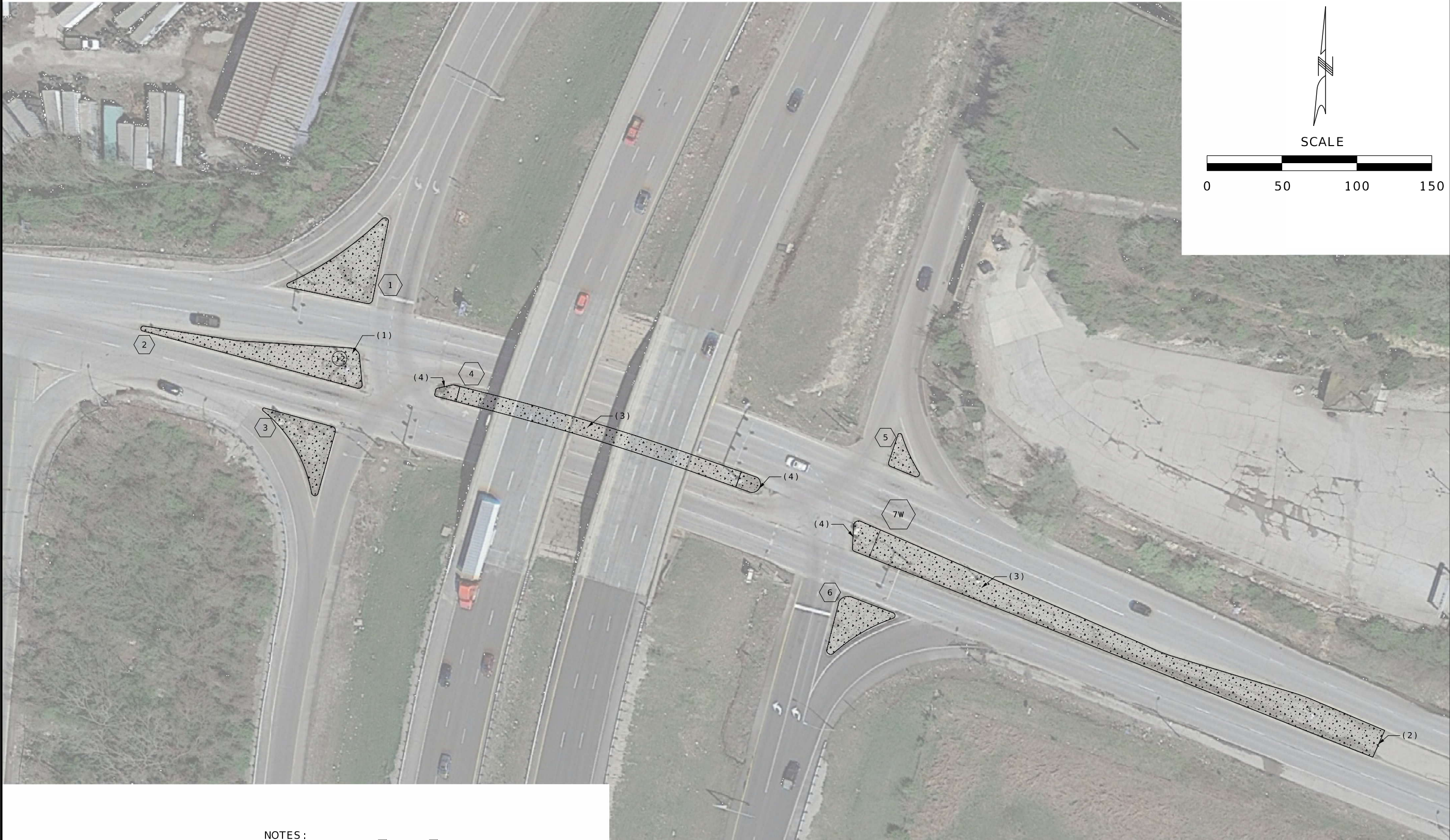
1000

10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

1000

QUANTITY SHEET  
SHEET 6 OF 6





STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER PE-2003015005

PROFESSIONAL ENGINEER

*Benjamin Stephen McCabe Sr.*

09/17/2025 1:25:11 PM

BENJAMIN STEPHEN MCCABE SR. - CIVIL

MO-PE-2003015005

DATE PREPARED

9/17/2025

ROUTE

78

STATE

MO

DISTRICT

KC

SHEET NO.

4

COUNTY

JACKSON

JOB NO.

JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT

MISSOURI

- LEGEND

REPLACE ISLAND/MEDIAN IN PLACE, CONC.

SIGNAL POLE

ISLAND/MEDIAN NUMBER

NOTES:

(1) MEDIAN 7W AND 7E ARE ONE CONTINUOUS ISLAND SPLIT BETWEEN PLAN SHEETS 1 AND 2

(2) SEE TYPICAL SECTION SHEET 1 AND 2 FOR MEDIAN DETAIL

(3) MEDIAN ENDS ARE 15' LONG AND ARE SOLID CONCRETE INSTEAD OF DETAIL ON TYPICAL SECTION SHEETS

(4) RAISE SIGNAL BOX TO FLUSH WITH TOP OF MEDIAN
- ISLAND/MEDIAN PLAN  
SHEET 1 OF 3





LEGEND

-  REPLACE MEDIAN IN PLACE, CONC.  
 MEDIAN NUMBER

NOTES:

- (1) MEDIAN  AND  ARE ONE CONTINUOUS ISLAND SPLIT BETWEEN PLAN SHEETS 1 AND 2  
(2) MEDIAN  AND ALL OTHER MEDIANS LONGER THAN MEDIAN  ARE CALCULATED BY LOGMILE WITH TYPICALS  
(3) SEE TYPICAL SECTION SHEET 1 AND 2 FOR MEDIAN DETAIL  
(4) MEDIAN ENDS ARE 15' LONG AND ARE SOLID CONCRETE INSTEAD OF DETAIL ON TYPICAL SECTION SHEETS

ISLAND/MEDIAN PLAN  
SHEET 2 OF 3



*Benjamin Stephen McCabe, Inc.*  
09/17/2025 1:25:49 PM  
BENJAMIN STEPHEN MCCABE SR., CIVIL  
MO-PE-2003015005

DATE PREPARED  
9/17/2025

ROUTE 78 STATE MO

DISTRICT KC SHEET NO. 5

COUNTY JACKSON

JOB NO. JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

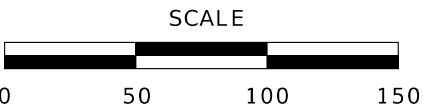
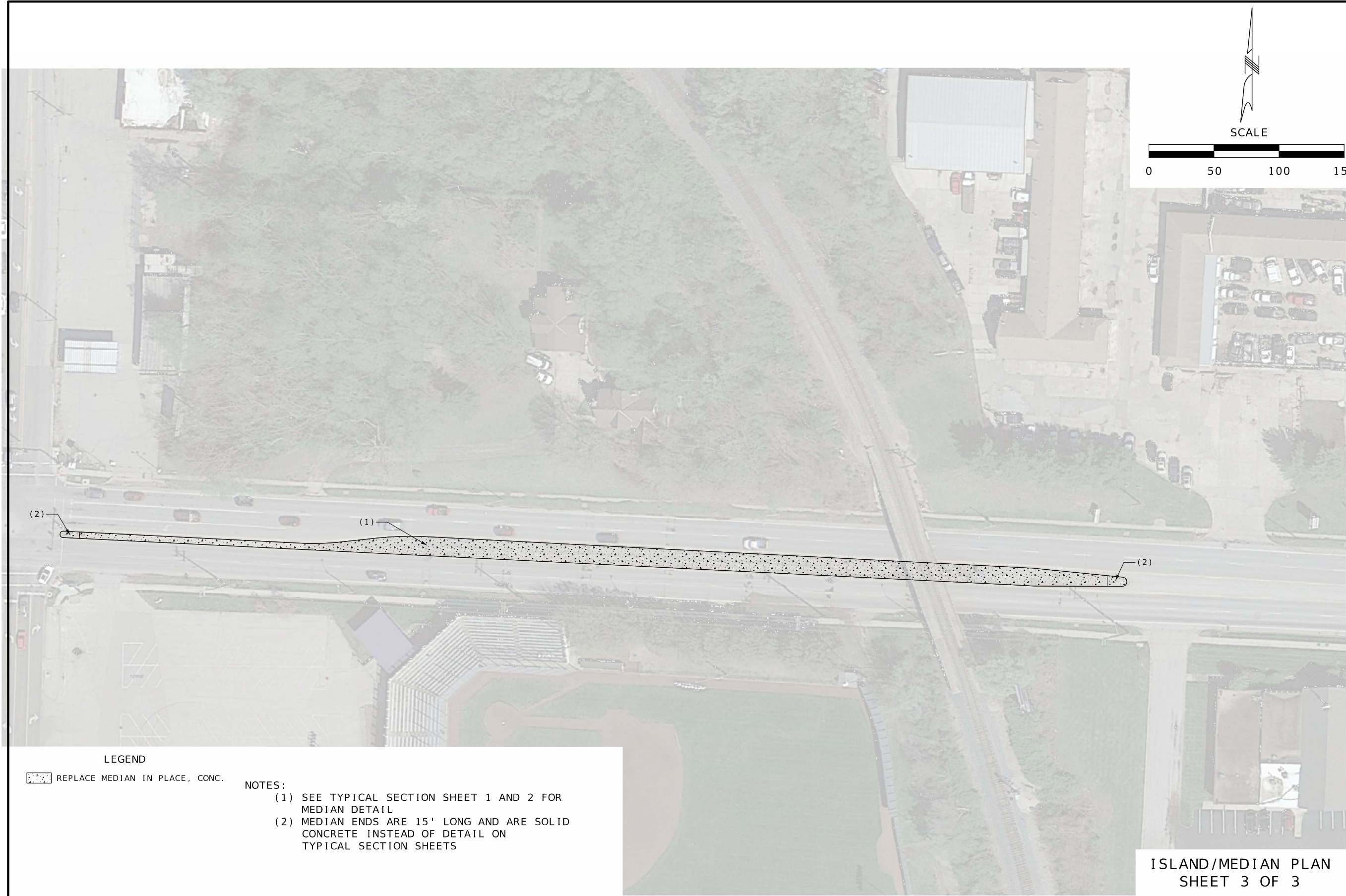
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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



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





DATE PREPARED  
9/17/2025

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| ROUTE<br>78        | STATE<br>MO    |
| DISTRICT<br>KC     | SHEET NO.<br>6 |
| COUNTY<br>JACKSON  |                |
| JOB NO.<br>JKU0042 |                |
| CONTRACT ID.       |                |
| PROJECT NO.        |                |
| BRIDGE NO.         |                |

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

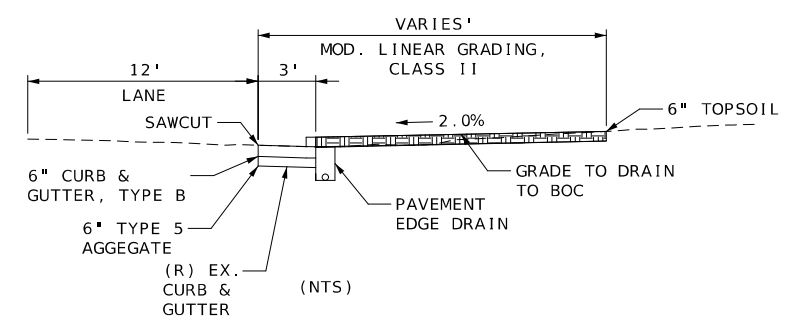
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

LEGEND

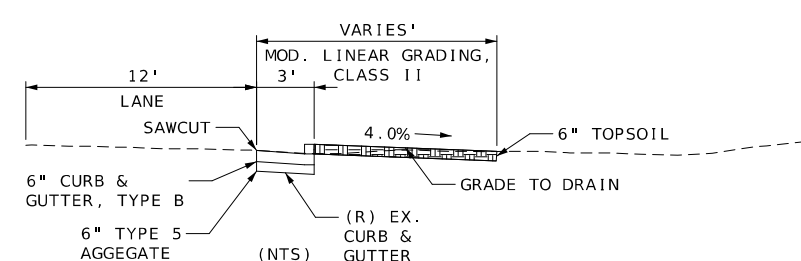
REPLACE MEDIAN IN PLACE, CONC.

NOTES:

- (1) SEE TYPICAL SECTION SHEET 1 AND 2 FOR MEDIAN DETAIL
- (2) MEDIAN ENDS ARE 15' LONG AND ARE SOLID CONCRETE INSTEAD OF DETAIL ON TYPICAL SECTION SHEETS

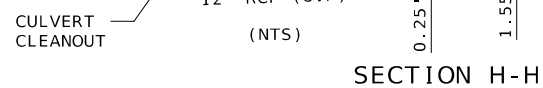


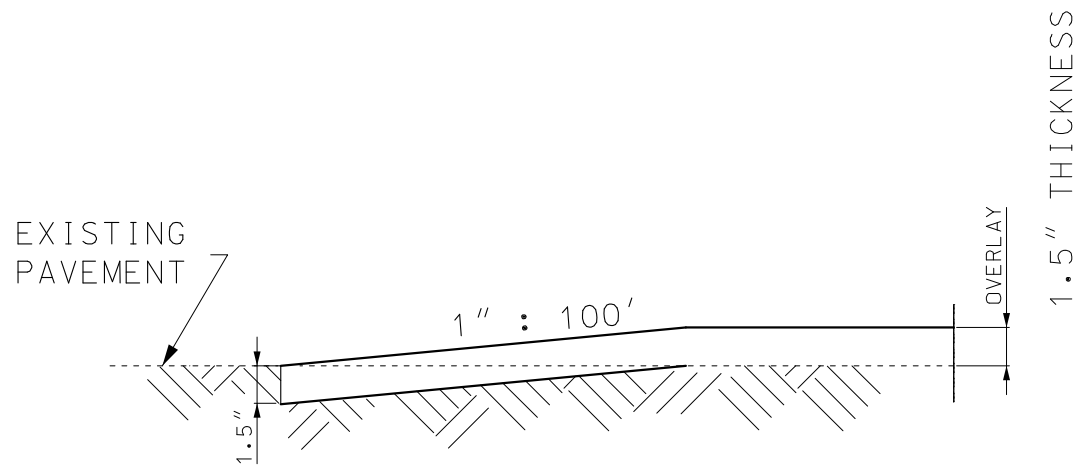
SECTION A-A



SECTION G-G

DI-1  
PC DI 5'X 3' TYPE T  
MANHOLE FRAME & COVER TYPE 3  
W/ EX. 12" RCP  
W/ 4" PIPE (FROM PED)





TRAVELWAY DEPTH TRANSITIONS  
BEGINNING AND END OF PROJECT  
ON 22ND TERR

(APPLICABLE AT THE BEGINNING  
AND END OF CURB AND GUTTER SECTION)



DATE PREPARED  
9/17/2025

|                |                |
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| ROUTE<br>78    | STATE<br>MO    |
| DISTRICT<br>KC | SHEET NO.<br>8 |

COUNTY  
JACKSON

JOB NO.  
JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



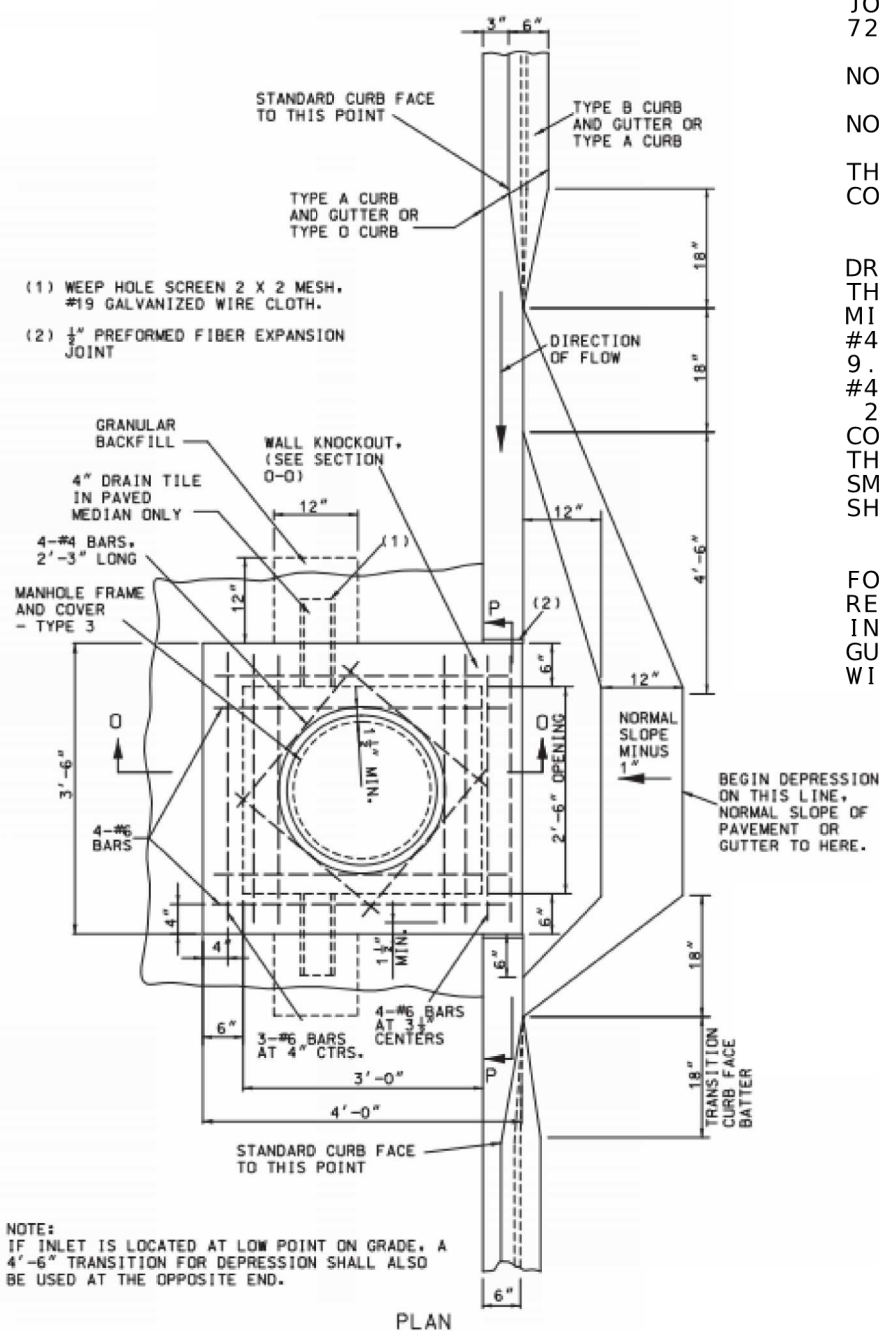
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)



DEMOLITION OF EXIST. TYPE T INLET TOP  
NTS

REPLACE TYPE T INLET TOP\*  
NTS

## STANDARD DETAIL 731.10T



NOTE:  
IF INLET IS LOCATED AT LOW POINT ON GRADE, A  
4'-6" TRANSITION FOR DEPRESSION SHALL ALSO  
BE USED AT THE OPPOSITE END.

NOT TO SCALE

**GENERAL NOTES:**

THE CONFIGURATION DETAILS SHOWN ARE DESCRIPTIVE ONLY  
AND MAY BE VARIED TO CONFORM WITH ESTABLISHED  
MANUFACTURING PROCEDURES.

TOP OF CURB INLET AND OPENING DIMENSIONS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF MODOT STANDARD PLAN 731.10T.

REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE. REINFORCEMENT SHOWN IS IN ADDITION TO ANY REINFORCEMENT SHOWN FOR CONCRETE PAVEMENT OR CURB AND GUTTER.

JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.

NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.

NO DIRECT PAYMENT WILL BE MADE FOR BENDING REINFORCING STEEL.

THE REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED. AT THE CONTRACTOR'S OPTION, ADDITIONAL REINFORCEMENT MAY BE USED.

DRILL & EPOXY #4 REBAR INTO THE TOP OF THE SAWCUT FACE OF THE INLET BASE SECTION AT 10" O.C. (FOUR VERTICAL BARS MIN. IN EACH FACE) FOR VERTICAL REINFORCEMENT. EMBED VERTICAL #4 BARS 6" INTO THE TOP OF THE INLET WALL AND EXTEND BARS 9.5" ABOVE THE TOP OF THE WALLS. PROVIDE TWO (2) HORIZONTAL #4 BARS AT 4" O.C. TIED TO THE VERTICAL BARS. PROVIDE A MINIMUM 2.5" COVER ON ALL REINFORCEMENT. FIELD BEND BARS TO PROVIDE CONTINUOUS REINFORCEMENT AROUND THE CORNERS OF THE INLET WITHIN THE RISER SECTION. CAST WITH 4,000 PSI CONCRETE AND PROVIDE SMOOTH TOP FOR PLACEMENT OF INLET TOP SECTION. INLET TOP SECTION SHALL BE CONSTRUCTED TO CURB AND GUTTER STANDARD.

FOR REMOVAL AND REPLACEMENT OF EXISTING CURB AND GUTTER LIMITS, REFER TO STANDARD DETAIL 731.10T. WIDTH OF INLETS AND INLET OPENINGS MAY VARY IN FIELD. PROPOSED TYPE B CURB AND GUTTER SHALL TRANSITION IN HEIGHT TO THE EXISTING CURB HEIGHT WITHIN REMOVAL AND REPLACEMENT LIMITS.



Benjamin Stephen McCabe Sr  
09/17/2025 2:24:46 PM  
BENJAMIN STEPHEN MCCABE SR - CIVIL  
MO-PE-2003015005

DATE PREPARED  
9/17/2025

|       |       |
|-------|-------|
| ROUTE | STATE |
| 78    | MO    |

|          |           |
|----------|-----------|
| DISTRICT | SHEET NO. |
| KC       | 9         |

|         |   |
|---------|---|
| KC      | 9 |
| COUNTY  |   |
| LACKSON |   |

JACKSON  
JOB NO.  
11111111

JKU0042  
CONTRACT ID.

|             |
|-------------|
| PROJECT NO. |
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BRIDGE NO.

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[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

CURB INLET DETAIL  
SPECIAL SHEET  
03 OF 03

Sign Spacing, Device Spacing  
and Channelizing Taper Lengths

| SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2) |                    |                               |
|--------------------------------------------------|--------------------|-------------------------------|
| SPEED MPH                                        | UNDIVIDED HIGHWAYS | DIVIDED HIGHWAYS              |
| 0-35                                             | 200                | 200                           |
| 40-45                                            | 350                | 500                           |
| 50-55                                            | 500                | 1000                          |
| 60-70                                            | 1000               | SA-1000<br>SB-1500<br>SC-2640 |

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES |                                               |       |       |                             |                   |
|---------------------------------------------------|-----------------------------------------------|-------|-------|-----------------------------|-------------------|
| SPEED MPH                                         | MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W) |       |       | MAXIMUM CHANNELIZER SPACING |                   |
|                                                   | 10 FT                                         | 11 FT | 12 FT | THROUGH TAPER               | THROUGH WORK AREA |
| 0-35                                              | 205                                           | 225   | 245   | 35                          | 40                |
| 40-45                                             | 450                                           | 495   | 540   | 40                          | 80                |
| 50-55                                             | 550                                           | 605   | 660   | 50                          | 80                |
| 60-70                                             | 700                                           | 770   | 840   | 60                          | 120               |

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS

| LONGITUDINAL BUFFER SPACE (B) |              |
|-------------------------------|--------------|
| SPEED MPH                     | BUFFER SPACE |
| 0-35                          | 250          |
| 40-45                         | 360          |
| 50-55                         | 495          |
| 60-70                         | 730          |

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L =  $\frac{WS^2}{60}$  FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
- EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

• SIGN (DOUBLE SIDED)

◁ FLAGGER

▲ DIRECTION INDICATOR BARRICADE

■ CHANNELIZER

E BARRICADE

CHANGEABLE MESSAGE BOARD

FLASHING ARROW PANEL

TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.  
NUMBER  
PE-2003015005

PROFESSIONAL ENGINEER

*Benjamin Stephen McCabe Sr.*

09/17/2025 1:33:02 PM  
BENJAMIN STEPHEN MCCABE SR. - CIVIL  
MO-PE-2003015005

DATE PREPARED  
9/17/2025

ROUTE  
78

DISTRICT  
KC

STATE  
MO

SHEET NO.  
10

COUNTY  
JACKSON

JOB NO.  
JKU0042

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



NOT TO SCALE

NOTES:

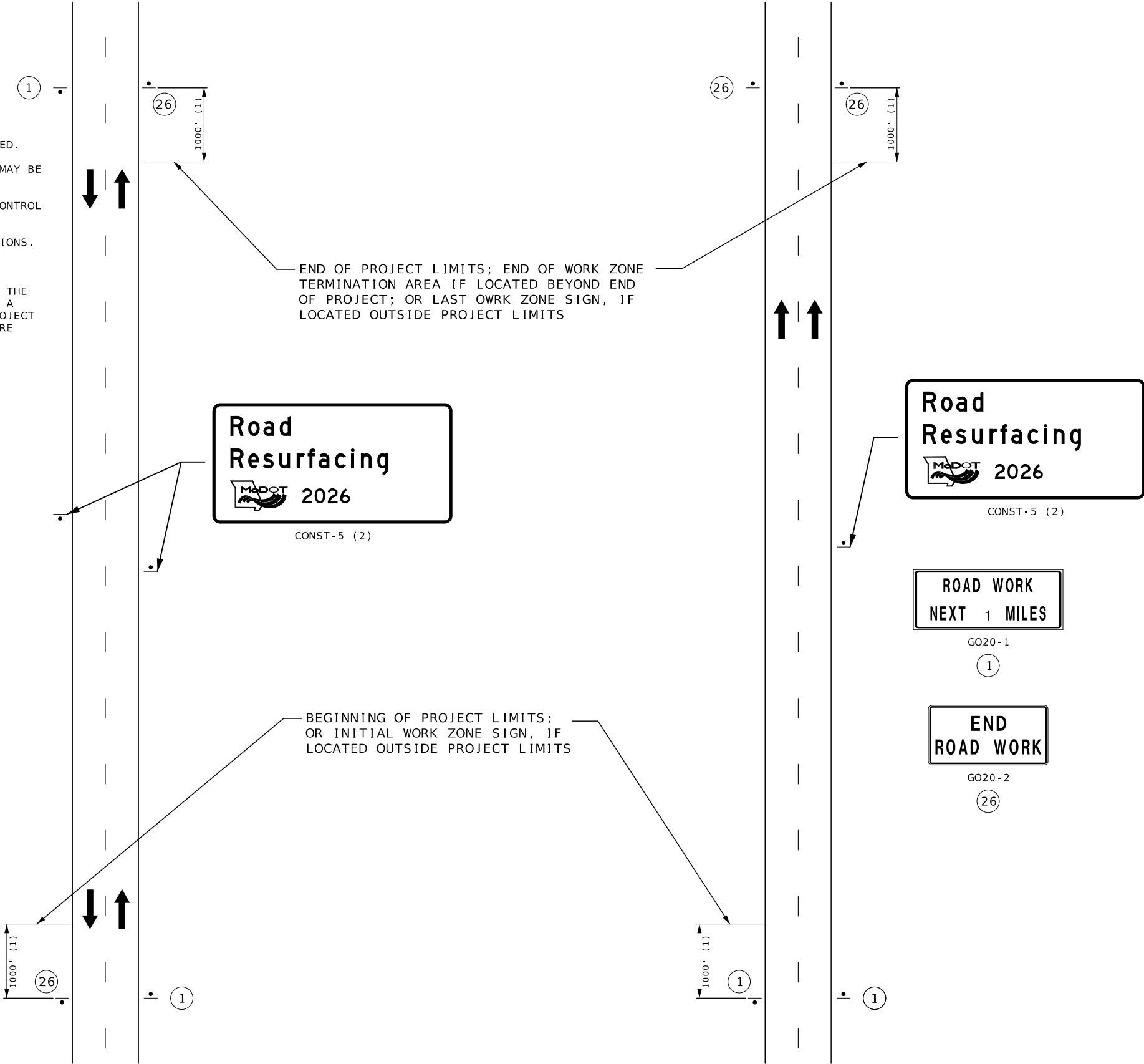
SIGN 26 IS USED ON ALL PROJECTS WHERE SIGN 1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

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

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED

(2) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-6-48



TWO-LANE UNDIVIDED

MULTI-LANE DIVIDED

BEGIN/END OF PROJECT SIGNING

BEGIN/END  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 2 OF 13



Benjamin Stephen McCabe, Sr.  
09/17/2025 1:33:41 PM  
BENJAMIN STEPHEN MCCABE, SR., CIVIL  
MO-PE-2003015005

DATE PREPARED  
9/17/2025

ROUTE 78 STATE MO

DISTRICT KC SHEET NO. 11

COUNTY JACKSON

JOB NO. JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two horizontal lines. The center of the seal contains the text "BENJAMIN STEPHEN MCCABE SR.", "NUMBER", and "PE-2003015005". Below the seal, the name "Benjamin Stephen McCabe Sr." is handwritten in cursive. At the bottom of the page, the text "09/17/2025 1:34:15 PM" and "BENJAMIN STEPHEN MCCABE SR. - CIVIL" are printed, followed by "MO-PE-2003015005" on the next line.

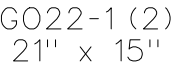
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-2-75-6636)

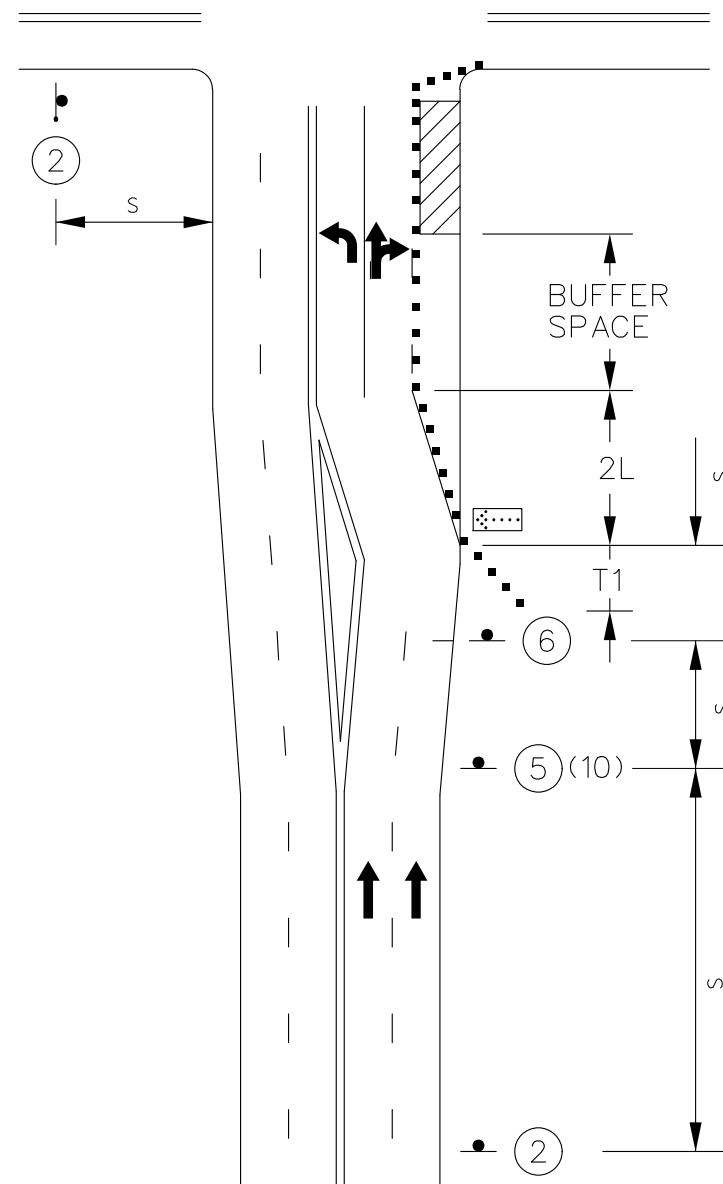
SIDE ROAD  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 3 OF 13



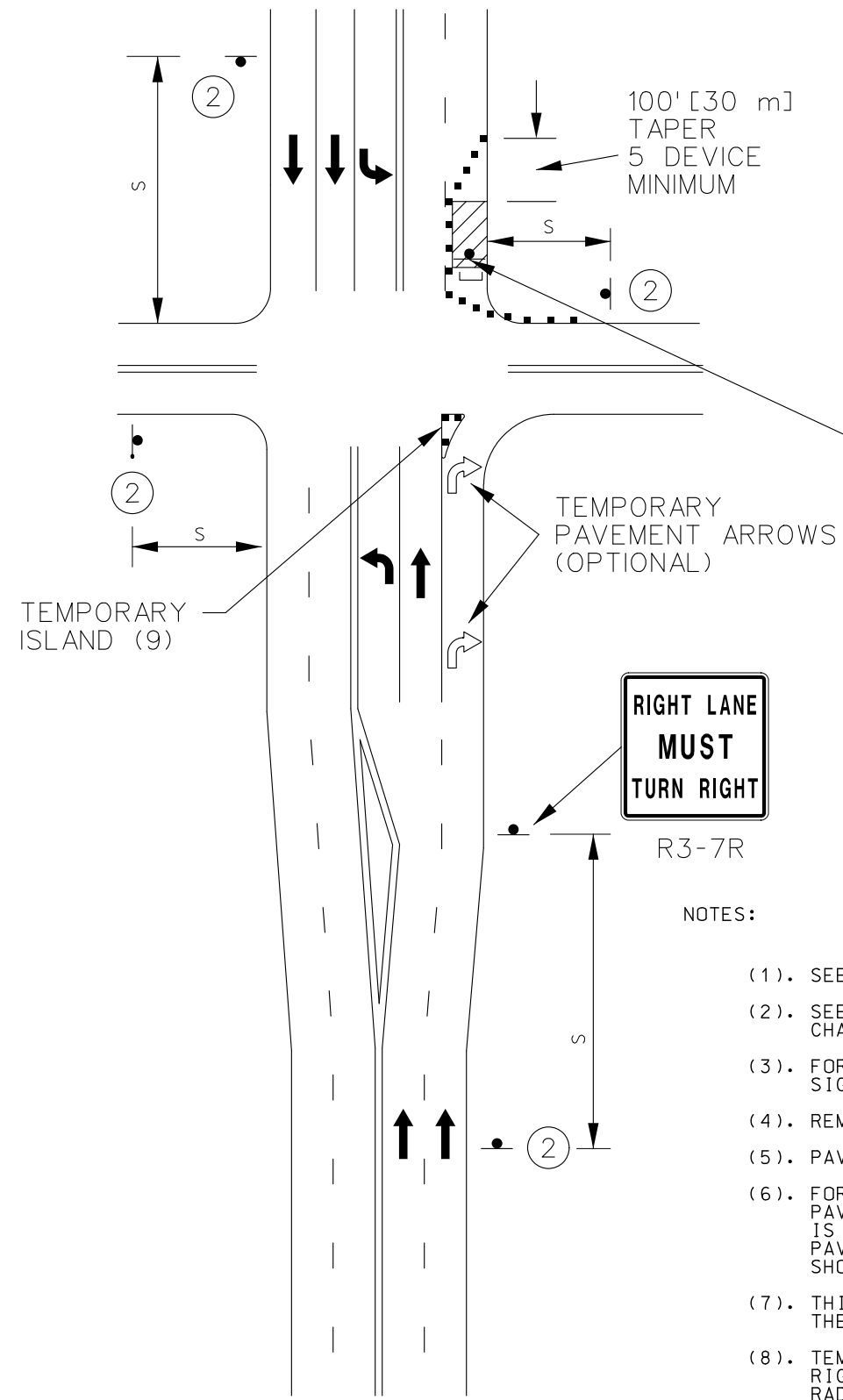
(3). ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.



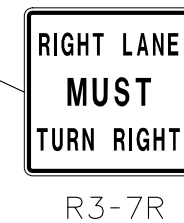




LANE CLOSURE  
RIGHT LANE CLOSURE AT INTERSECTION

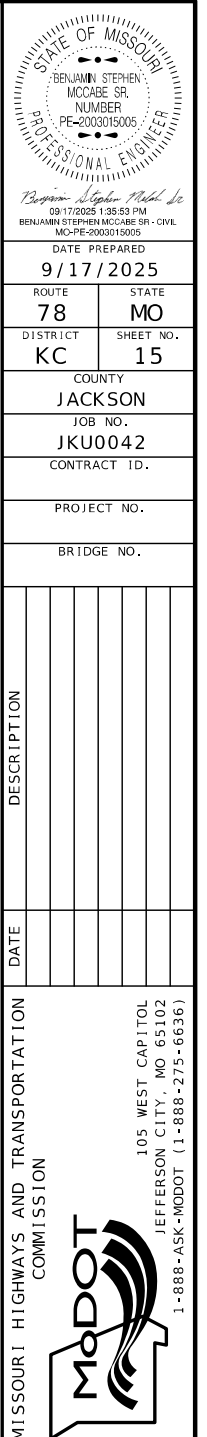


WORK ON FAR SIDE ONLY (8)

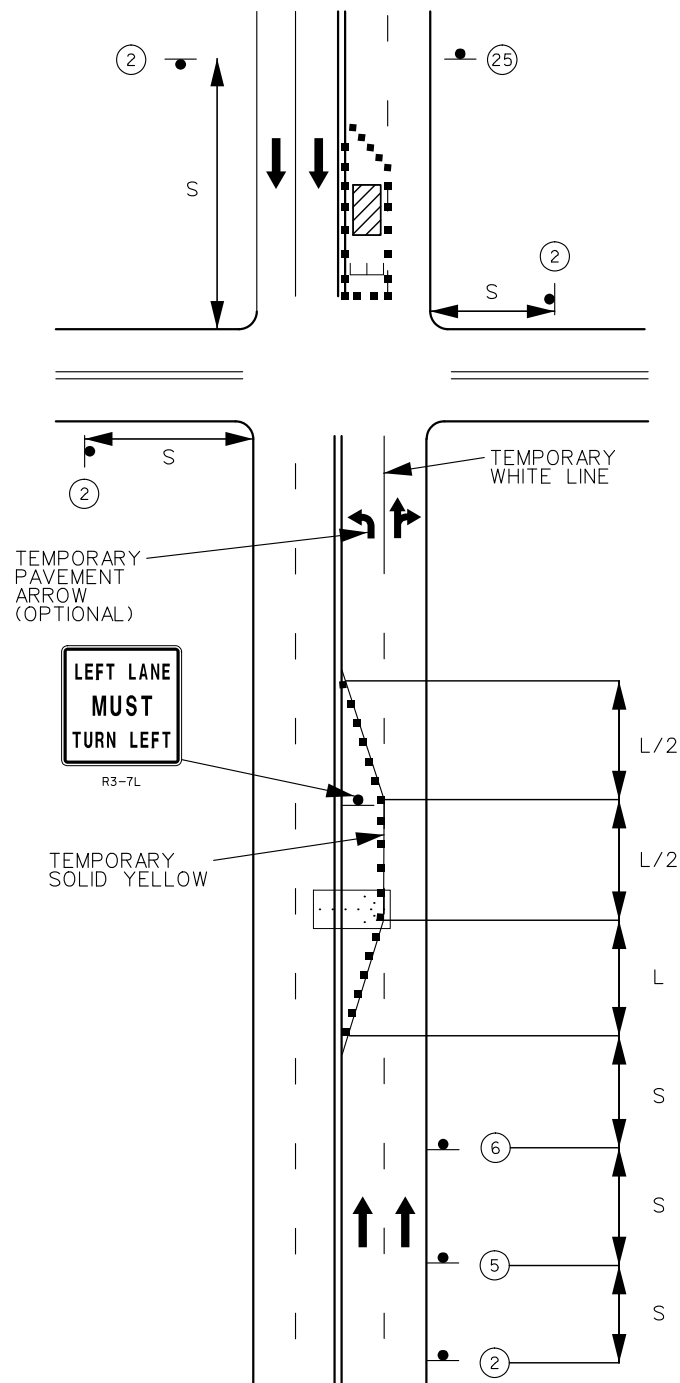
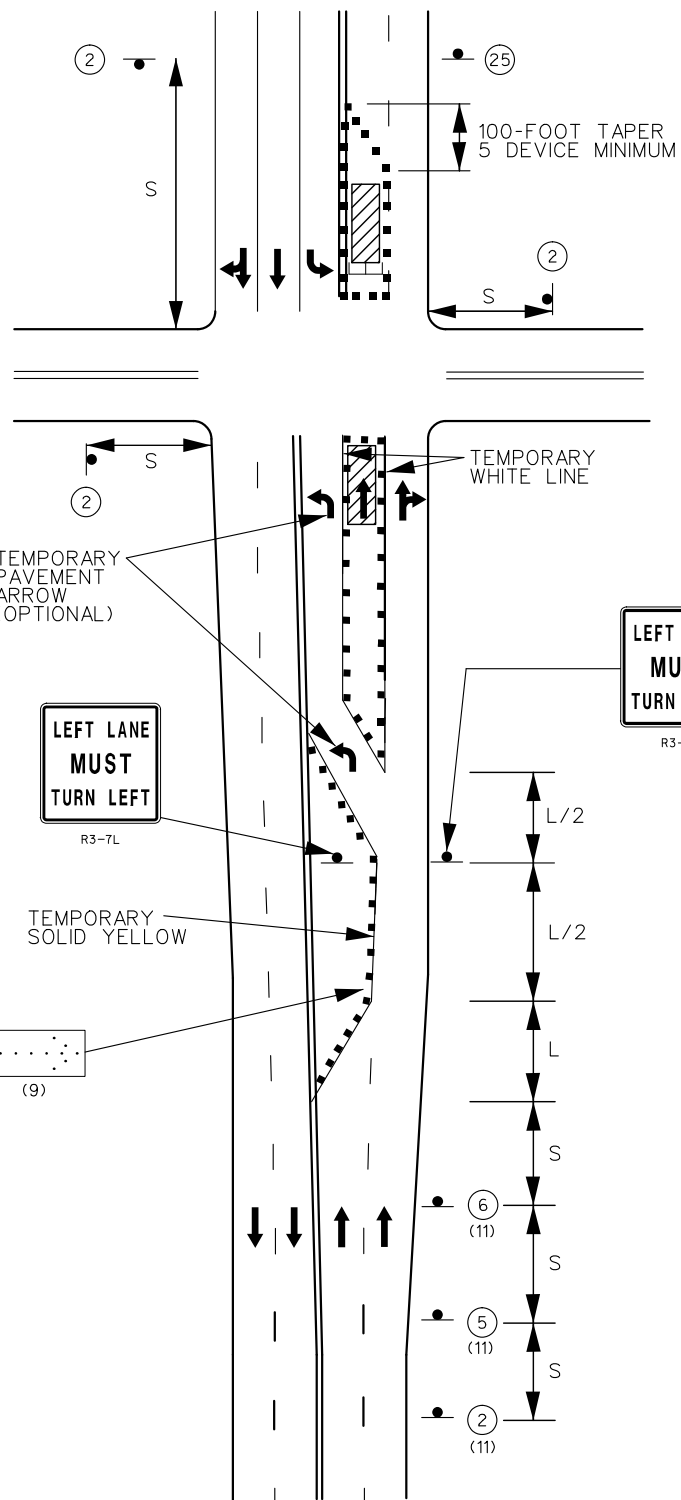


- (1). SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- (2). SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- (3). FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.
- (4). REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
- (5). PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.
- (6). FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKINGS. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN ON TRAFFIC CONTROL SHEET 1.
- (7). THIS FIGURE ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH VOLUME.
- (8). TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.
- (9). SIGN ⑤ MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

RIGHT LANE CLOSURE  
AT INTERSECTION  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 6 OF 13

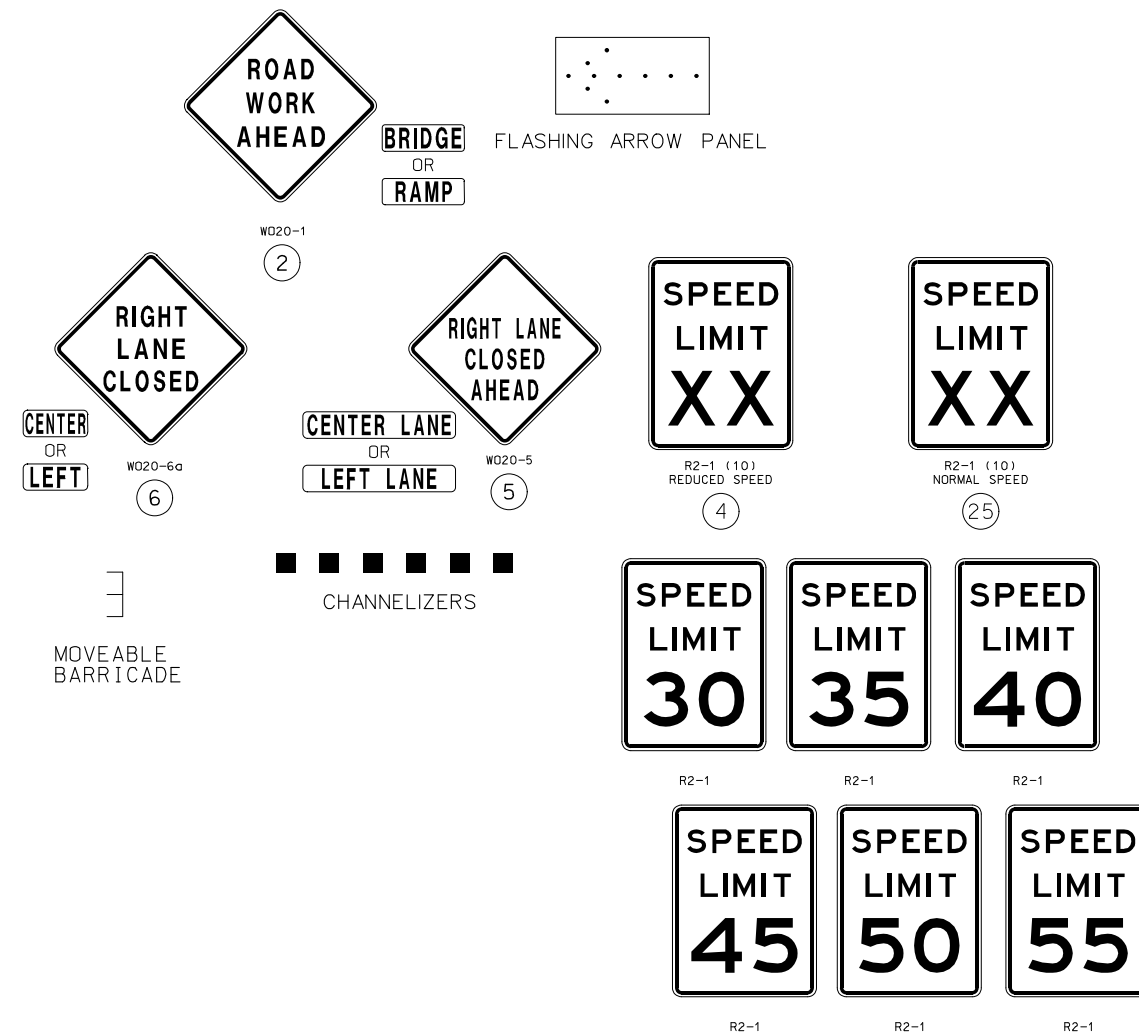






NOTE :

- (1). SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- (2). SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- (3). FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.
- (4). REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
- (5). PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.
- (6). FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FOOT DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.
- (7). "LEFT LANE CLOSED AHEAD" SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.
- (8). THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOW THIS PLACEMENT.
- (9). SIGN MAY ALSO BE PLACED IN THE MEDIAN OF THE ROADWAY IF THERE IS SUFFICIENT ROOM BETWEEN EASTBOUND AND WESTBOUND LANES.
- (10). PROJECT LENGTH INCLUDES MULTIPLE POSTED SPEEDS. EACH SPEED AND A CORRESPONDING REDUCED SPEED ARE INCLUDED



LEFT LANE CLOSURE AT INTERSECTION  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 8 OF 13

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

09/17/2025 1:37:50 PM

BENJAMIN STEPHEN MCCABE SR., CIVIL

MO-PE-2003015005

DATE PREPARED

9/17/2025

ROUTE

78

STATE

MO

DISTRICT

KC

SHEET NO.

17

COUNTY

JACKSON

JOB NO.

JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

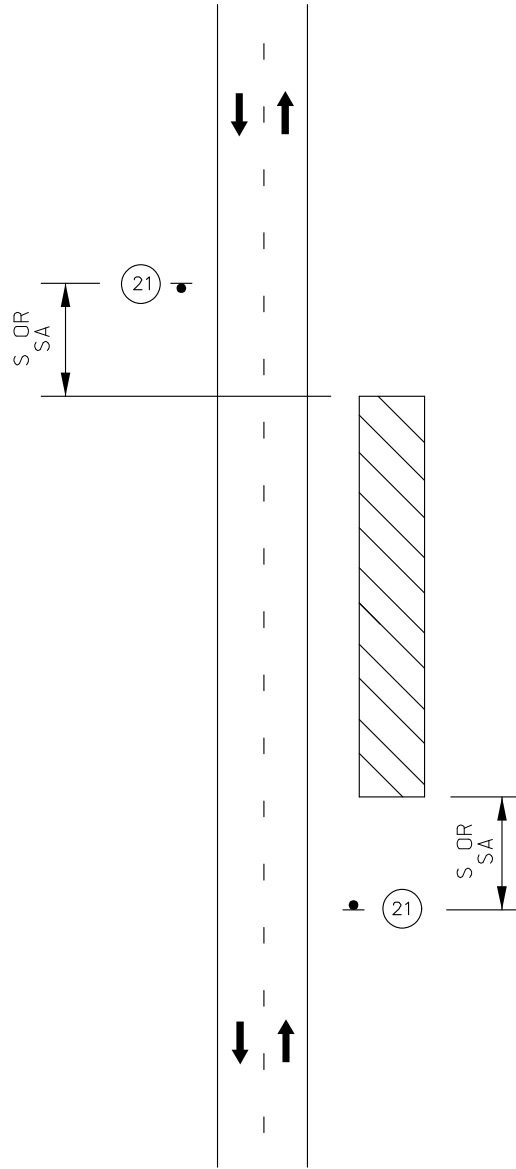
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

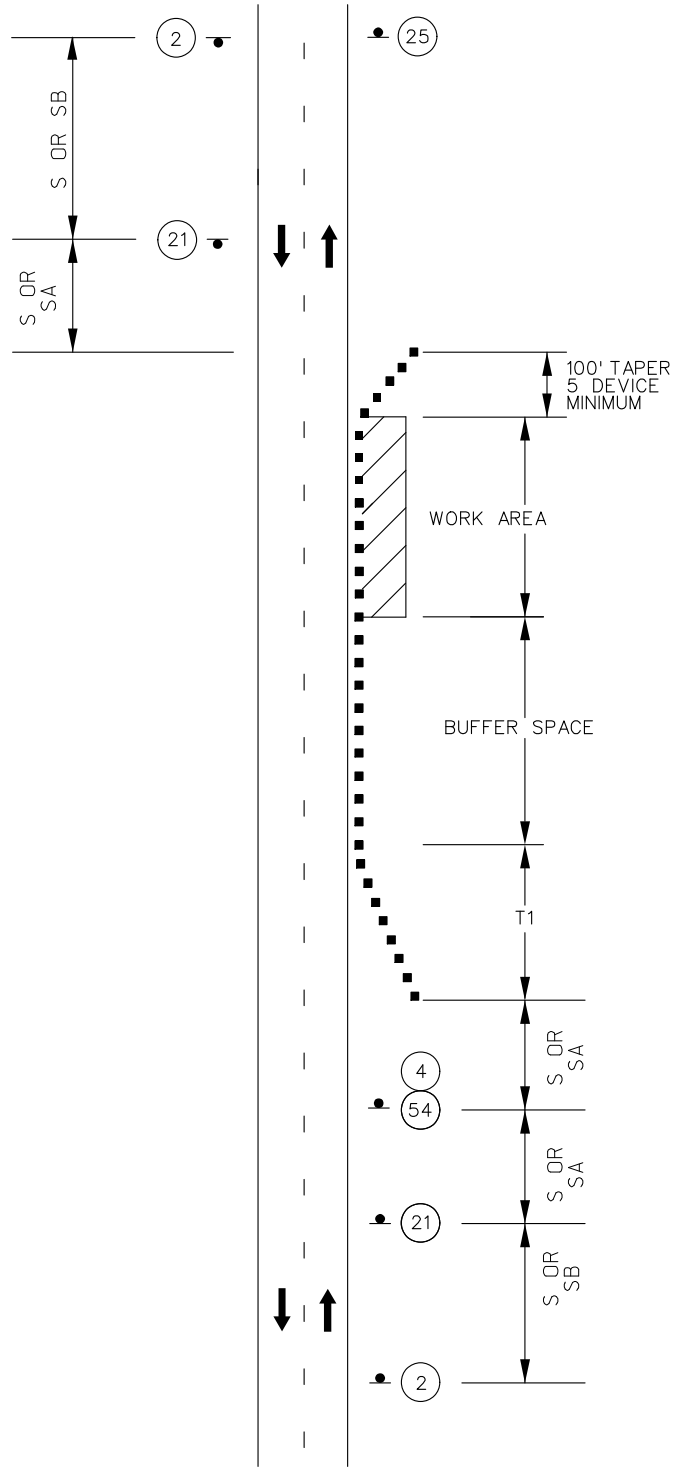
1-888-ASK-MODOT (1-888-275-6636)



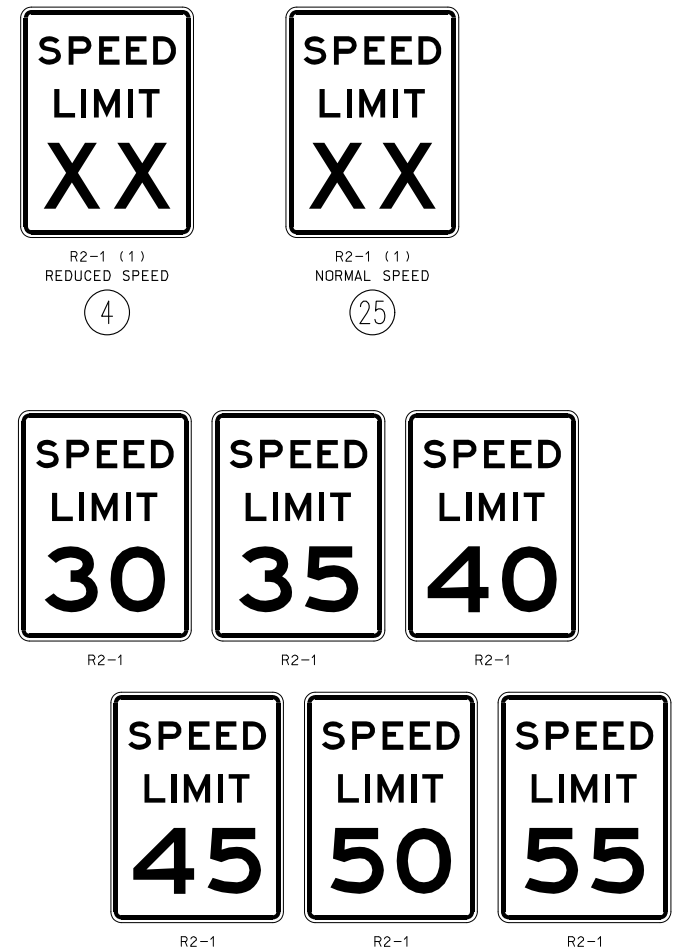
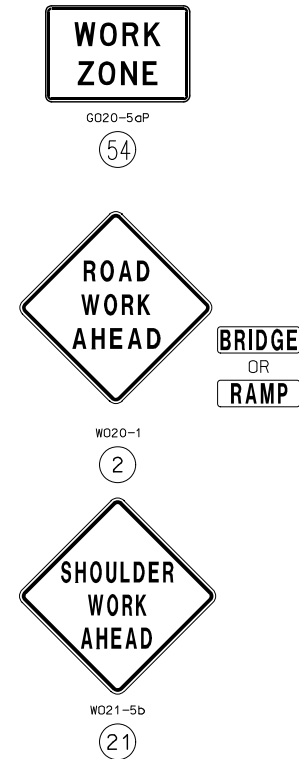
### WORK BEYOND SHOULDER

#### NOTES:

- ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.
- SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- ON MULTI-LANE, DIVIDED HIGHWAYS SIGNS ADVISING OF SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.



### SHOULDER WORK WITH NO TRAVELWAY ENCROACHMENT



#### NOTES:

- SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.
- PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.
- (1) PROJECT LENGTH INCLUDES MULTIPLE POSTED SPEEDS. EACH SPEED AND A CORRESPONDING REDUCED SPEED ARE INCLUDED.

SHOULDER WORK  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 9 OF 13

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE, SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

BENJAMIN STEPHEN MCCABE, SR.

09/17/2025 1:37:25 PM

BENJAMIN STEPHEN MCCABE, SR. - CIVIL

MO-PE-2003015005

DATE PREPARED

9/17/2025

ROUTE

78

STATE

MO

DISTRICT

KC

SHEET NO.

18

COUNTY

JACKSON

JOB NO.

JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

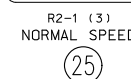
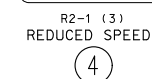
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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



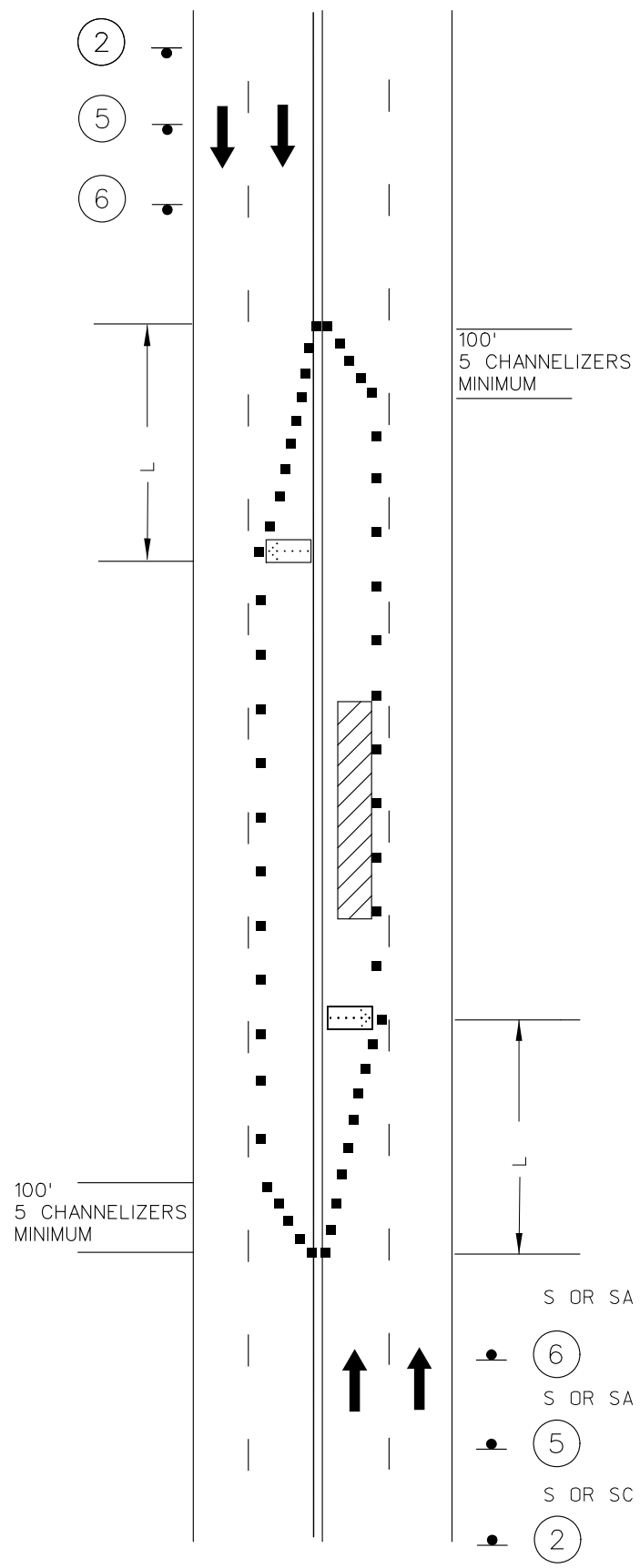




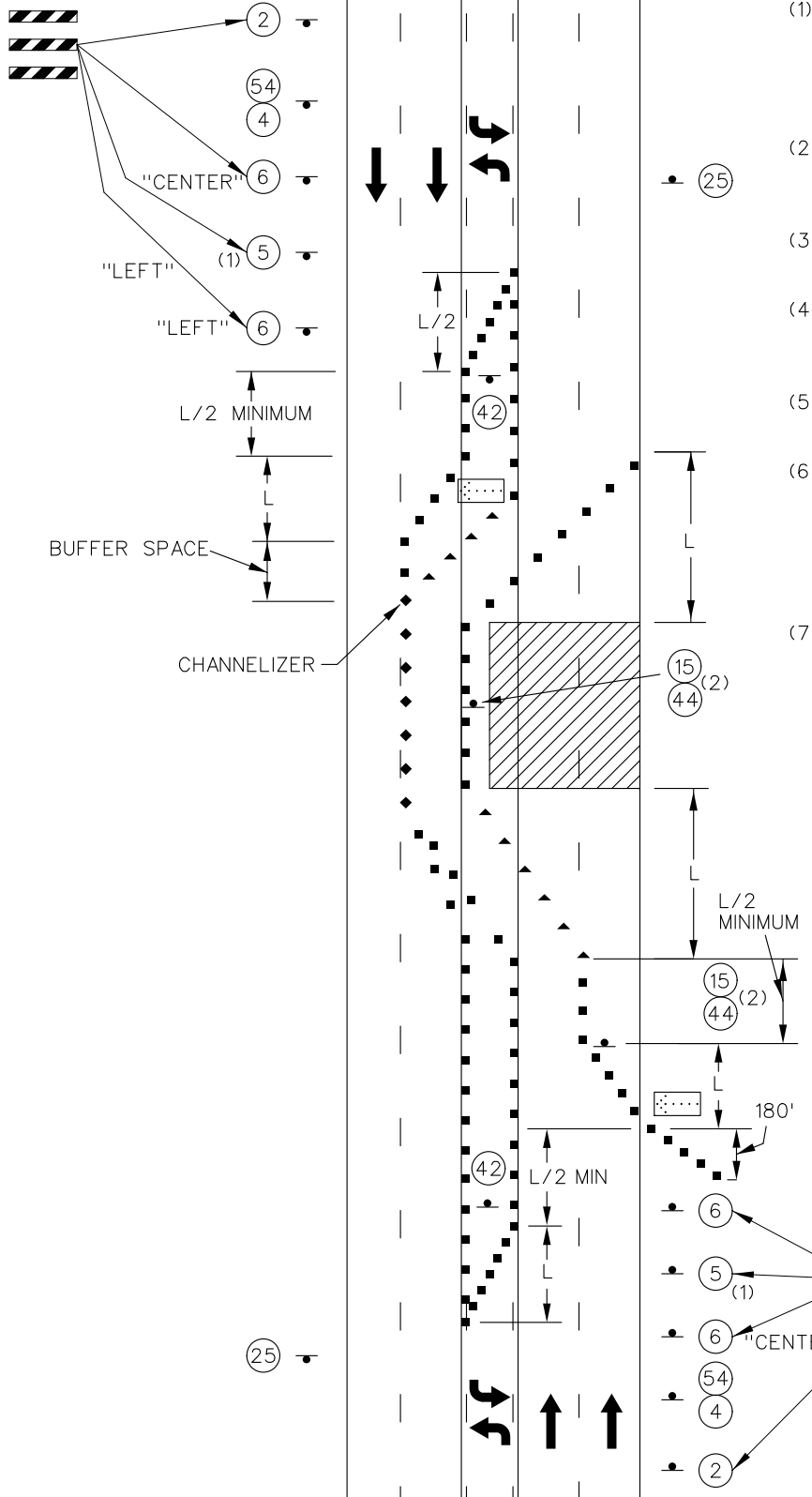
- (1). SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- (2). SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- (3). PROJECT LENGTH INCLUDES MULTIPLE POSTED SPEEDS. EACH SPEED AND A CORRESPONDING REDUCED SPEED ARE INCLUDED.

CENTER TURN LANE  
LANE CLOSURE  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 11 OF 13



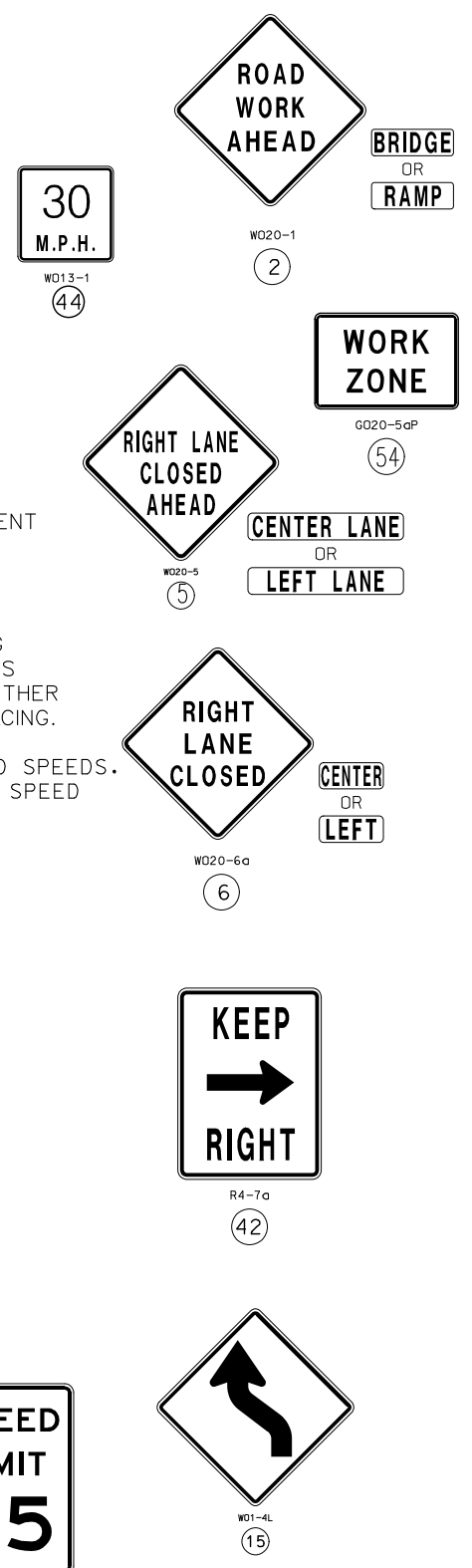
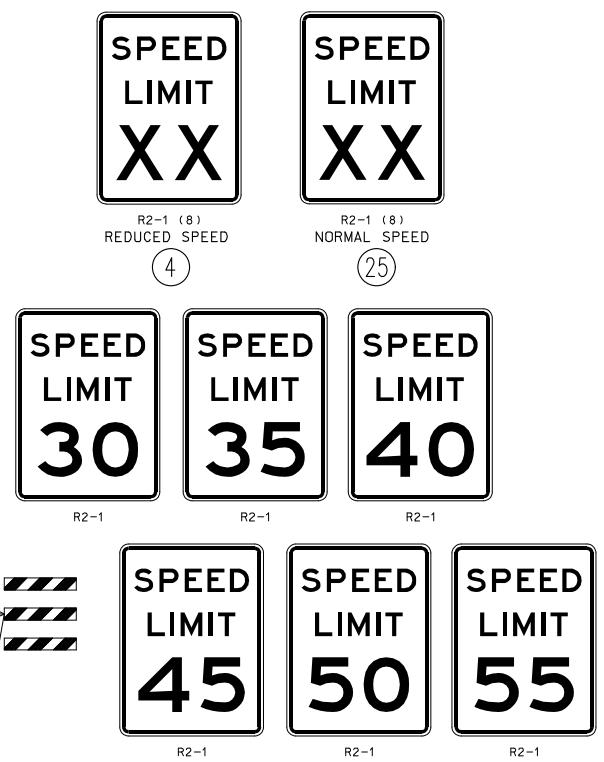


LANE CLOSURE ON  
MULTI-LANE UNDIVIDED HIGHWAY



TWO LANE CLOSURE  
ON A 5-LANE  
UNDIVIDED HIGHWAY

- NOTES:
- (1) SIGN 5 MAY BE OMITTED IN URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES, AND THE POSTED SPEED LIMIT PRIOR TO CONSTRUCTION IS 45 MPH OR LESS.
  - (2) SIGN 44 IS ONLY REQUIRED WHERE FULL LENGTH SHIFTING TAPERS CANNOT BE PROVIDED.
  - (3) SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
  - (4) SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
  - (5) REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
  - (6) FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED IN THE SHIFTING TAPERS AND WHERE TRAFFIC IS GUIDED ACROSS OTHER CONFLICTING PAVEMENT MARKING, ALL OTHER SPACINGS ARE ONE-HALF OF THE TYPICAL SPACING.
  - (7) PROJECT LENGTH INCLUDES MULTIPLE POSTED SPEEDS. EACH SPEED AND A CORRESPONDING REDUCED SPEED ARE INCLUDED.



CENTER TURN LANE  
LANE CLOSURE  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 12 OF 13

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

09/17/2025 1:39:47 PM

BENJAMIN STEPHEN MCCABE SR. - CIVIL

MO-PE-2003015005

DATE PREPARED

9/17/2025

ROUTE

78

STATE

MO

DISTRICT

KC

SHEET NO.

21

COUNTY

JACKSON

JOB NO.

JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

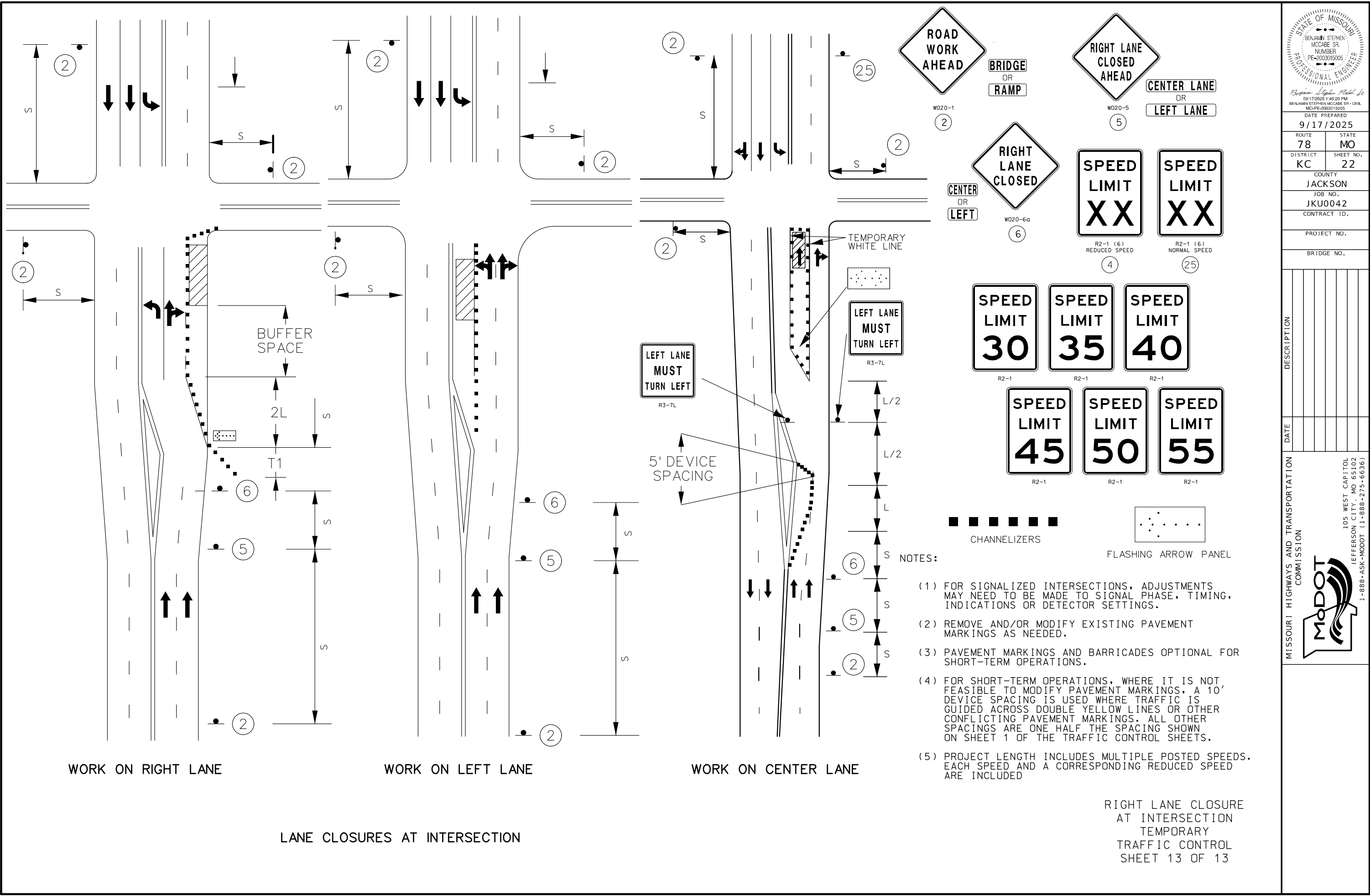
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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



WORK ON RIGHT LANE

WORK ON LEFT LANE

WORK ON CENTER LANE

LANE CLOSURES AT INTERSECTION

- NOTES:
- (1) FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASE, TIMING, INDICATIONS OR DETECTOR SETTINGS.
  - (2) REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
  - (3) PAVEMENT MARKINGS AND BARRICADES OPTIONAL FOR SHORT-TERM OPERATIONS.
  - (4) FOR SHORT-TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKINGS, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKINGS. ALL OTHER SPACINGS ARE ONE HALF THE SPACING SHOWN ON SHEET 1 OF THE TRAFFIC CONTROL SHEETS.
  - (5) PROJECT LENGTH INCLUDES MULTIPLE POSTED SPEEDS. EACH SPEED AND A CORRESPONDING REDUCED SPEED ARE INCLUDED

RIGHT LANE CLOSURE  
AT INTERSECTION  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 13 OF 13

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER PE-2003015005

PROFESSIONAL ENGINEER

*Benjamin Stephen McCabe Sr.*

09/17/2025 1:40:20 PM

BENJAMIN STEPHEN MCCABE SR. - CIVIL

MC-PE-2003015005

DATE PREPARED  
9/17/2025

ROUTE 78  
DISTRICT KC

STATE MO  
SHEET NO. 22

COUNTY JACKSON

JOB NO. JKU0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

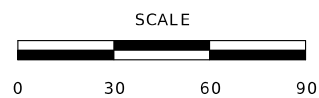
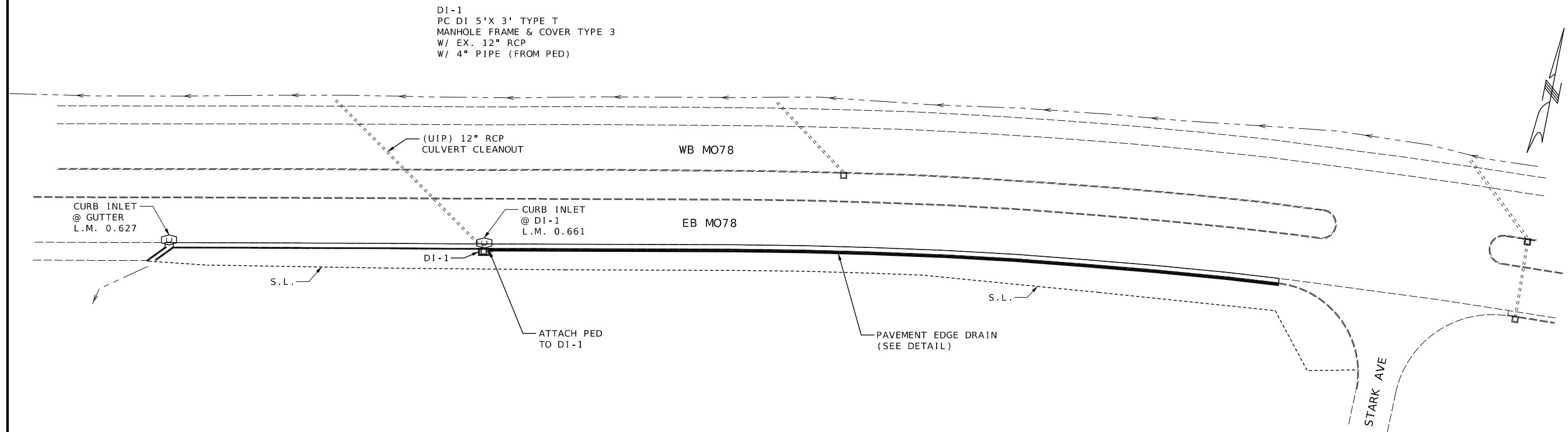
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

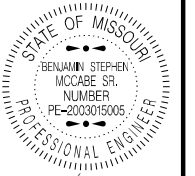
JEFFERSON CITY, MO 65102

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

|                                                                                   |                       |
|-----------------------------------------------------------------------------------|-----------------------|
|  | ALTERNATE DITCH CHECK |
|  | CURB INLET CHECK      |
|  | ROCK DITCH CHECK      |
|  | SEDIMENT TRAP         |
|  | SILT FENCE            |



EROSION CONTROL  
SHEET 1 OF 1



Benjamin Stephen McCabe Sr  
09/17/2025 1:41:00 PM  
BENJAMIN STEPHEN MCCABE SR - CIVIL  
MO-PE-2003015005

DATE PREPARED

9/17/2025

|       |       |
|-------|-------|
| ROUTE | STATE |
| 78    | MO    |

|          |          |
|----------|----------|
| DISTRICT | SHEET NO |
| KC       | 23       |

COUNTY

JACKSON

JOB NO.  
JKU0042

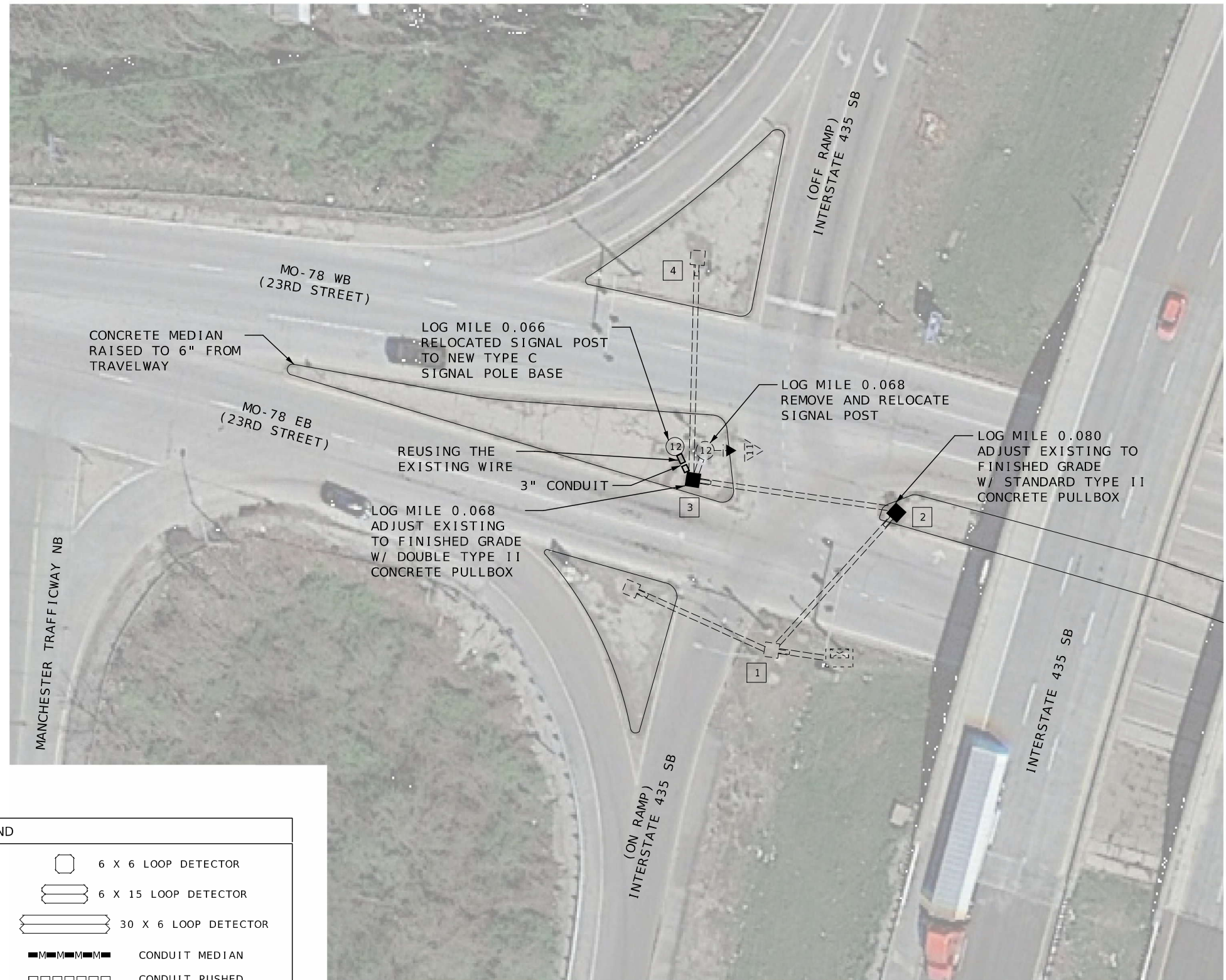
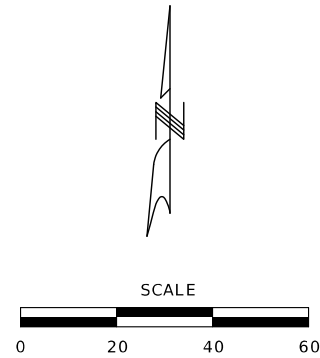
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



| TRAFFIC SIGNALS LEGEND |                            |  |                           |  |                        |
|------------------------|----------------------------|--|---------------------------|--|------------------------|
|                        | CONTROLLER                 |  | CCTV CAMERA               |  | 6 X 6 LOOP DETECTOR    |
|                        | CONTROLLER (EXISTING)      |  | VIDEO DETECTOR            |  | 6 X 15 LOOP DETECTOR   |
|                        | JUNCTION BOX               |  | PUSH BUTTON DETECTOR      |  | 30 X 6 LOOP DETECTOR   |
|                        | POWER SUPPLY               |  | PREFORMED PULL BOX TYPE 1 |  | CONDUIT MEDIAN         |
|                        | WOOD POST                  |  | PREFORMED PULL BOX TYPE 2 |  | CONDUIT PUSHED         |
|                        | SIGNAL HEAD (OPT LIM CONV) |  | CONCRETE PULL BOX TYPE 1  |  | CONDUIT BRIDGE         |
|                        | SIGNAL HEAD (OPT LIM)      |  | CONCRETE PULL BOX TYPE 2  |  | CONDUIT EXISTING       |
|                        | SIGNAL HEAD (PEDESTRIAN)   |  | ITS PULL BOX TYPE 2       |  | CONDUIT TRENCHED       |
|                        | SIGNAL HEAD (STANDARD)     |  | ITS PULL BOX TYPE 5       |  | SPAN WIRE              |
|                        |                            |  |                           |  | MAST ARM - TYPE A BASE |
|                        |                            |  |                           |  | MAST ARM - TYPE C BASE |
|                        |                            |  |                           |  | MAST ARM - TYPE F BASE |

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

*Benjamin Stephen McCabe Sr.*

09/18/2025 9:45:07 AM

BENJAMIN STEPHEN MCCABE SR - CIVIL

MO-PE-2003015005

DATE PREPARED

9/17/2025

ROUTE

78

STATE

MO

DISTRICT

KC

SHEET NO.

24

COUNTY

JACKSON

JOB NO.

JKU0042

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)

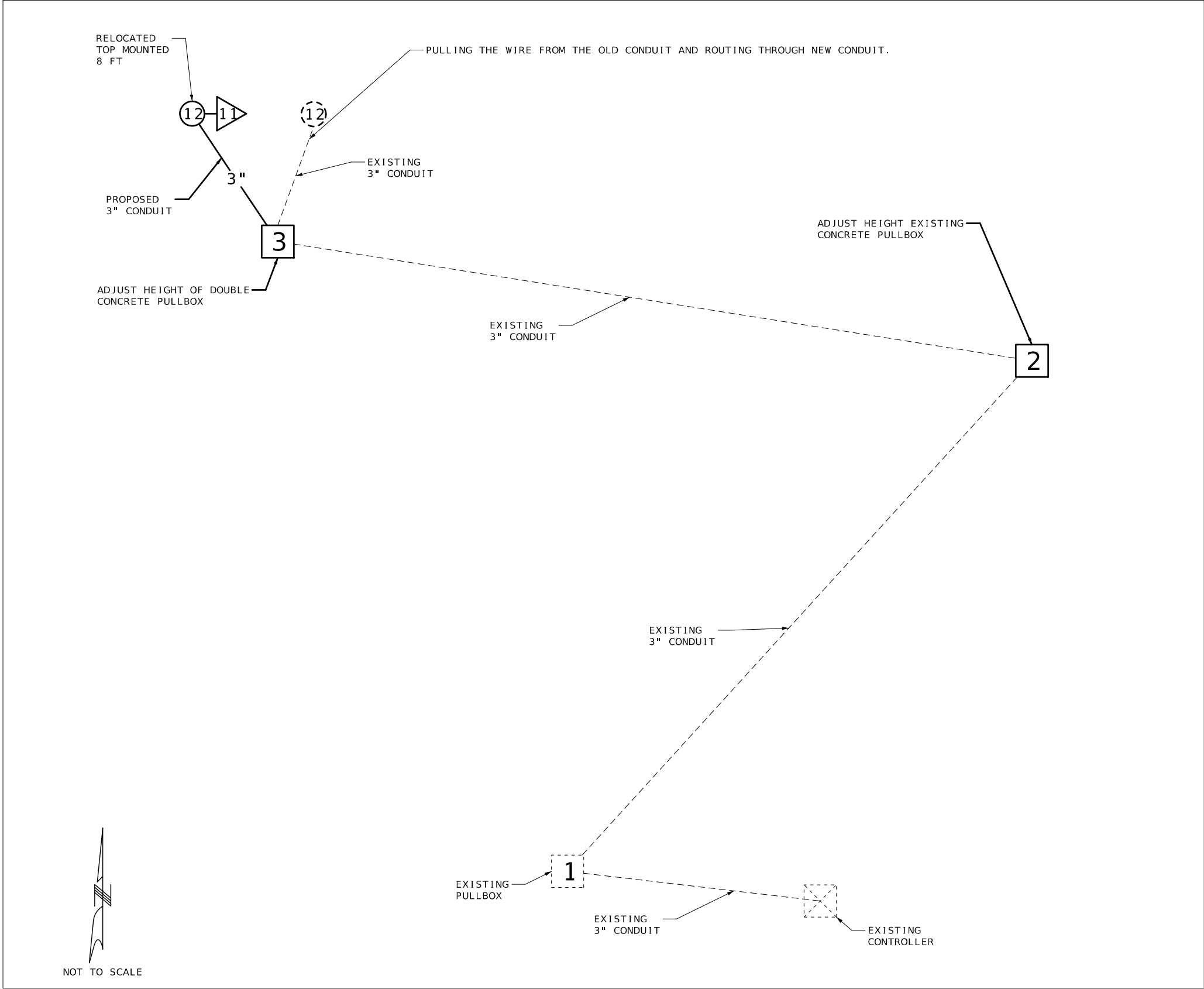
SIGNAL SHEET

SHEET 1 OF 3



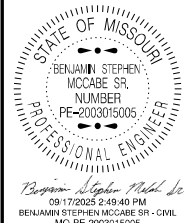


WIRING DIAGRAM



LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- L IC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- X PULL BOX WITH NUMBER
- X POST WITH NUMBER
- X POST WITH MAST ARM
- X POST WITH MAST ARM AND LUMINAIRE
- X DETECTOR WITH NUMBER
- X SIGNAL HEAD WITH NUMBER
- X SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER



|               |           |
|---------------|-----------|
| DATE PREPARED |           |
| 9/17/2025     |           |
| ROUTE         | STATE     |
| 78            | MO        |
| DISTRICT      | SHEET NO. |
| KC            | 26        |
| COUNTY        |           |
| JACKSON       |           |
| JOB NO.       |           |
| JKU0042       |           |
| CONTRACT ID.  |           |
| PROJECT NO.   |           |
| BRIDGE NO.    |           |

| DESCRIPTION | DATE |
|-------------|------|
|             |      |
|             |      |
|             |      |
|             |      |
|             |      |
|             |      |
|             |      |
|             |      |
|             |      |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

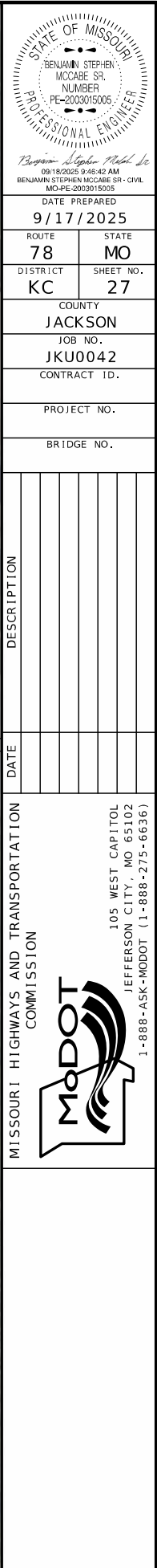
SIGNAL SHEET  
SHEET 3 OF 3

IS 435 AND MO 78

INTERSECTION

D-37D

















LOG MILE 0.811



W2-2  
36" x 36"



LOG MILE  
10.942  
(USE EXISTING  
POST)



SCALE

LOG MILE 1.088

SIGNAGE SHEET  
SHEET 4 OF 7



DATE PREPARED  
9/17/2025

|                |                 |
|----------------|-----------------|
| ROUTE<br>78    | STATE<br>MO     |
| DISTRICT<br>KC | SHEET NO.<br>30 |

COUNTY  
JACKSON  
JOB NO.  
JKU0042  
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)







SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.

SIGN SIZE

STATION OR LOG MILE

LOCATION

SIGN DTL SHT NO.

ITEM NO. 9031010

CY

POST DES NO.

POST NO. 1

POST NO. 2

POST NO. 3

LBS PER FT

TOTAL 9031210

LBS

PIPE SIZE

POST NO. 1

POST NO. 2

LBS PER FT

TOTAL 9031220

LBS

2" X 3/8" BARS AT 2.55 LBS/FT

NO.

LGTH

TOTAL

TOTAL

9031250A

LF

POST NO. 1

POST NO. 2

TOTAL 9031270A

LF

LF

LF

DRIVEN 12 GA.

DRIVEN 7 GA.

CONCRETE 7 GA.

POST NO. 1

POST NO. 2

TOTAL 9031280

LF

LF

LF

2.25" INSERT (6 FT)

DRIVEN 7 GA.

CONCRETE 7 GA.

POST NO. 1

POST NO. 2

TOTAL 9031285

LF

LF

LF

BREAK-AWAY ASSEMBLY

REMARKS AND OTHER REQUIRED ITEMS

EFFECTIVE: 07-01-2024

STATE OF MISSOURI  
BENJAMIN STEPHEN MCCABE SR.  
NUMBER PE-2003015005  
PROFESSIONAL ENGINEER  
08/17/2025 1:51:36 PM  
BENJAMIN STEPHEN MCCABE SR - CIVIL  
MO-PE-2003015005

DATE PREPARED  
9/17/2025

ROUTE 78  
STATE MO  
DISTRICT KC  
SHEET NO. 32

COUNTY JACKSON

JOB NO. JKU0042

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)

SUBTOTAL

1.17

TOTAL

1.2

210.00

210.0

49

49

5

5

55

55

5

5

\*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.

\*\*BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS. (STANDARD 903.02AQ)

ROUND PIPE POST AND FOOTING DATA TABLE

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

SIGNING SHEET  
SHEET 6 OF 7

D-29

