

DESIGN DESIGNATION

A.A.D.T. - 2024 = 24,853  
A.A.D.T. - 2034 = 27,912  
D.H.V. = 9.24%  
T = 34.96%  
V = 70 M.P.H.  
D = 37.5%/62.5%

FUNCTIONAL CLASSIFICATION-INTERSTATE

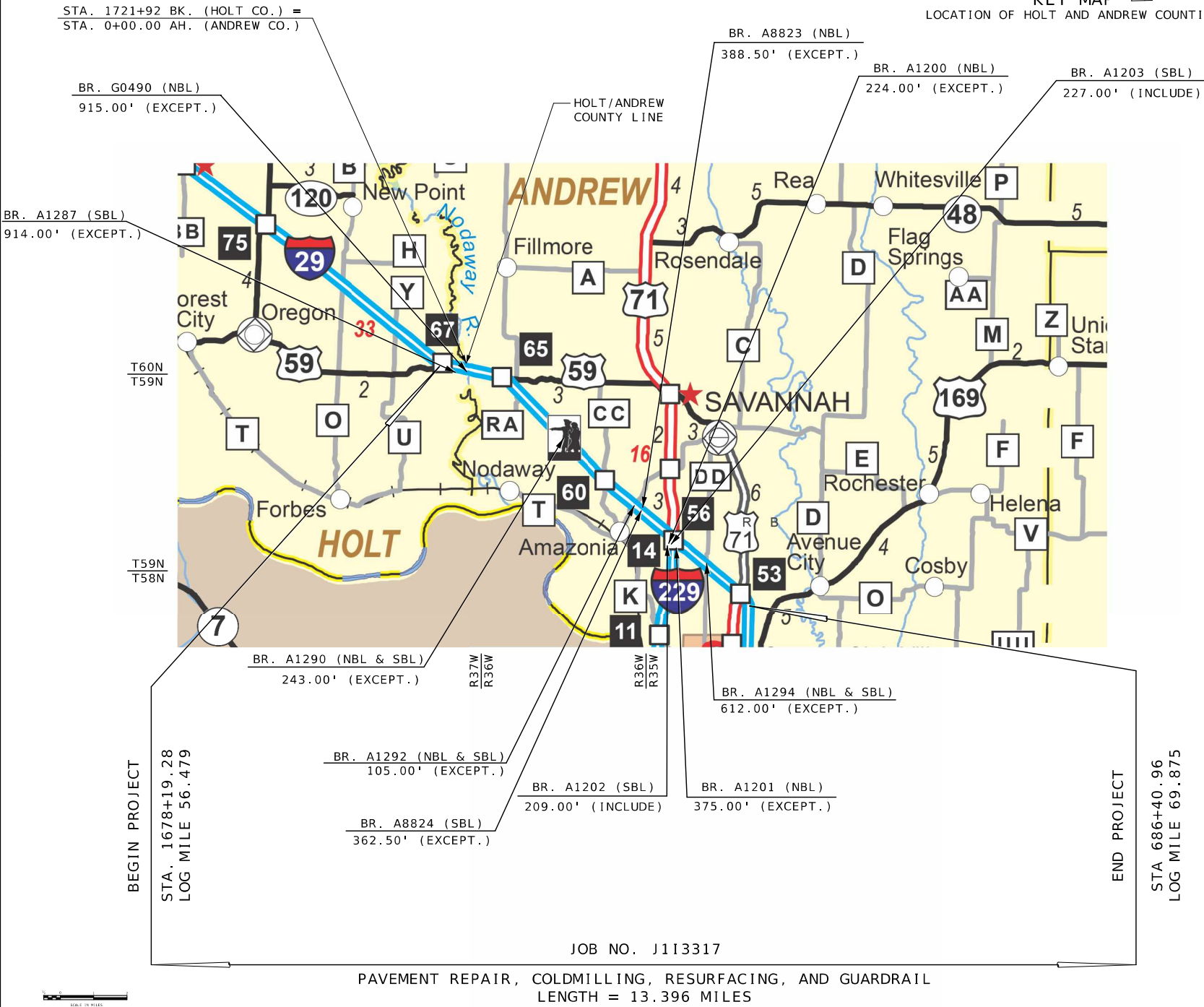
NO RIGHT-OF-WAY  
ACQUISITION

CONVENTIONAL SYMBOLS  
(USED IN PLANS)

|                              | EXISTING | NEW   |
|------------------------------|----------|-------|
| BUILDINGS AND STRUCTURES     |          |       |
| GUARD RAIL                   |          |       |
| GUARD CABLE                  |          |       |
| CONCRETE RIGHT-OF-WAY MARKER |          |       |
| STEEL RIGHT-OF-WAY MARKER    |          |       |
| LOCATION SURVEY MARKER       |          |       |
| UTILITIES                    |          |       |
| FIBER OPTICS                 | -FO-     | -FO-  |
| OVERHEAD CABLE TV            | -OTV-    | -OTV- |
| UNDERGROUND CABLE TV         | -UTV-    | -UTV- |
| OVERHEAD TELEPHONE           | -OT-     | -OT-  |
| UNDERGROUND TELEPHONE        | -UT-     | -UT-  |
| OVERHEAD POWER               | -OE-     | -OE-  |
| UNDERGROUND POWER            | -UE-     | -UE-  |
| SANITARY SEWER               | -S-      | -S-   |
| STORM SEWER                  | -SS-     | -SS-  |
| GAS                          | -G-      | -G-   |
| WATER                        | -W-      | -W-   |
| MANHOLE                      |          |       |
| FIRE HYDRANT                 |          |       |
| WATER VALVE                  |          |       |
| WATER METER                  |          |       |
| DROP INLET                   |          |       |
| DITCH BLOCK                  |          |       |
| GROUND MOUNTED SIGN          |          |       |
| LIGHT POLE                   |          |       |
| H-FRAME POWER POLE           |          |       |
| TELEPHONE PEDESTAL           |          |       |
| FENCE                        |          |       |
| CHAIN LINK                   |          |       |
| WOVEN WIRE                   |          |       |
| GATE POST                    |          |       |
| BENCHMARK                    |          |       |

NOTE: DASHED OR OPEN SYMBOLS INDICATE  
EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
PLANS FOR PROPOSED  
STATE HIGHWAY  
HOLT/ANDREW COUNTY



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

| DESCRIPTION                        | SHEET NUMBER |
|------------------------------------|--------------|
| TITLE SHEET -----                  | 1            |
| TYPICAL SECTIONS (TS) (8 SHEETS)-- | 2            |
| QUANTITIES (QU) (8 SHEETS)-----    | 3            |
| SPECIAL SHEETS (SS)-----           | 4-13         |
| TRAFFIC CONTROL SHEETS (TC)-----   | 14-20        |

LENGTH OF PROJECT

|                           |                 |
|---------------------------|-----------------|
| BEGINNING OF PROJECT      | STA. 1678+19.28 |
| END OF PROJECT            | STA. 686+40.96  |
| APPARENT LENGTH           | -99178.32 FEET  |
| EQUATIONS AND EXCEPTIONS: |                 |

STA. 1721+47.92 BK =  
STA. 0+00 AH.

BRIDGE G0490 (N.B.L.):  
STA. 1709+35.50 TO STA. 1718+49.50

BRIDGE A1287 (S.B.L.):  
STA. 1709+35.50 TO STA. 1718+49.50  
(-914.00 FT.)

BRIDGE A1290 (N.B.L.):  
STA. 217+68.05 TO STA. 220+11.05

BRIDGE A1290 (S.B.L.):  
STA. 217+98.62 TO STA. 220+41.62  
(-243.00 FT.)

BRIDGE A1292 (N.B.L.):  
STA. 397+87.25 TO STA. 398+92.25

BRIDGE A1292 (S.B.L.):  
STA. 397+89.25 TO STA. 398+94.25  
(-105.00 FT.)

BRIDGE A8824 (S.B.L.):  
STA. 408+81.50 TO STA. 412+44.00  
(-362.50 FT.)

BRIDGE A8823 (N.B.L.):  
STA. 408+82.00 TO STA. 412+70.50

BRIDGE A1200 (N.B.L.):  
STA. 493+37.63 TO STA. 495+61.63

BRIDGE A1201 (N.B.L.):  
STA. 499+71.88 TO STA. 503+46.88

BRIDGE A1294 (N.B.L.):  
STA. 582+85.39 TO STA. 588+97.39

BRIDGE A1294 (S.B.L.):  
STA. 583+89.10 TO STA. 590+01.10  
(-612.00 FT.)

|                       |             |       |
|-----------------------|-------------|-------|
| TOTAL CORRECTIONS     | + 169911.42 | FEET  |
| NET LENGTH OF PROJECT | 70733.10    | FEET  |
| STATE LENGTH          | 13.396      | MILES |

\* S.B.L. EXCEPTIONS WERE USED FOR  
LENGTH OF PROJECT CALCULATIONS

FOR INFORMATION ONLY  
ESTIMATED DISTURBED ACRES 0.00 ACRES



DATE PREPARED  
8/4/2023

ROUTE  
I-29

STATE  
MO

DISTRICT  
NW

SHEET NO.  
1

COUNTY  
HOLT/ANDREW

JOB NO.  
J113317

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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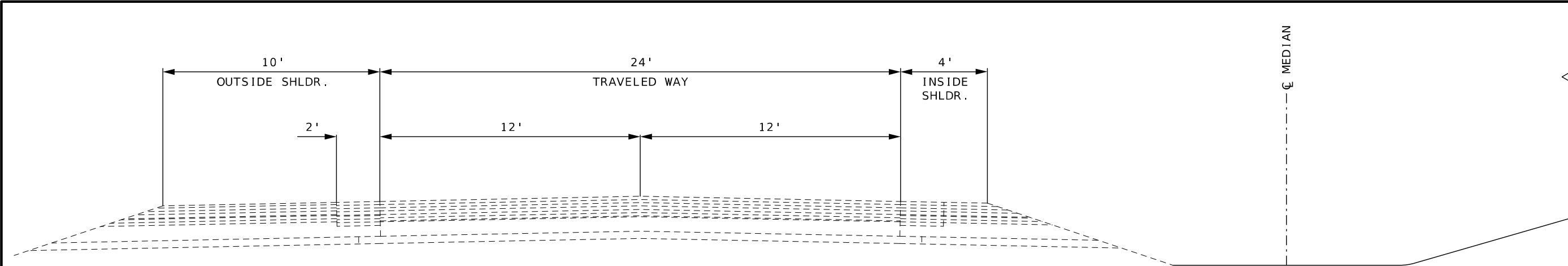
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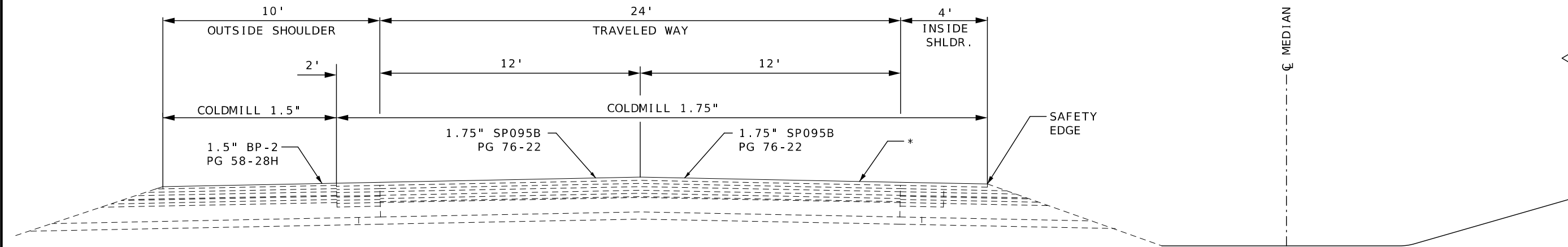


HALF SECTION ON TANGENT  
EXISTING TYPICAL SECTION RTE. I-29  
STA. 1678+19.28 (HOLT CO.) TO STA. 686+40.96 (ANDREW CO.)  
N.B.L.

| ESTIMATE FACTORS * |                                                                                                                                                                         |                    |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| ITEM               | DESCRIPTION                                                                                                                                                             | FACTOR             |
| 310-50.02          | GRAVEL (A) OR CRUSHED STONE (B)<br>BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-2)<br>ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP095B MIX)<br>TACK COAT - ON COLDMILLED ASPHALT | 1.40 TONS /CU. YD. |
| 401-12.32          |                                                                                                                                                                         | 1.96 TONS/CU. YD.  |
| 403-00.06          |                                                                                                                                                                         | 1.96 TONS/CU. YD.  |
| 407-10.05          |                                                                                                                                                                         | 0.10 GAL/SQ. YD.   |

\*FOR INFORMATION PURPOSES ONLY

| PAVEMENT HISTORY |                                              |                                                                                     |
|------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| YEAR             | DESCRIPTION                                  |                                                                                     |
|                  | TRAVELED WAY                                 | SHOULDERS                                                                           |
| 1968             | 8" PCCP<br>4" TYPE 3 AGG. BASE               | 2" TYPE C A.C.<br>7" TYPE 1 AGG. BASE<br>5" TYPE 4 AGG. BASE<br>4" TYPE 3 AGG. BASE |
| 1984/1985        | 1/2" LEVEL<br>1 3/4" TYPE B<br>1 1/4" TYPE C | 1/2" LEVEL<br>2 3/4" TYPE B<br>2 1/4" TYPE C                                        |
| 1992             | 1 3/4" IB<br>1 1/4" IC                       |                                                                                     |
| 1995             | 1 3/4" SMA<br>2" TYPE IB                     | 1 3/4" SMA<br>2" TYPE IB<br>1 3/4" TYPE C<br>2" TYPE B                              |
| 2006             | 1 3/4" SP125B                                | 1 3/4" SP125B<br>1 3/4" BP-1                                                        |
| 2015             | 1 3/4" SP125BSMR                             | 1 3/4" SP125BSMR<br>1 1/4" BP-2 PG64-22<br>TYPE 1 AGG.                              |



HALF SECTION ON TANGENT  
PROPOSED TYPICAL SECTION RTE. I-29  
STA. 1678+19.28 (HOLT CO.) TO STA. 686+40.96 (ANDREW CO.)  
N.B.L.

\*:  
FULL WIDTH MICROSURFACING TYPE III, SINGLE PASS  
I-29 S.B. STA. 492+56.66 TO STA. 513+66.90  
SEE SPECIAL SHEET 9 OF 10



|                           |                |
|---------------------------|----------------|
| DATE PREPARED<br>9/7/2023 |                |
| ROUTE<br>I-29             | STATE<br>MO    |
| DISTRICT<br>NW            | SHEET NO.<br>2 |
| COUNTY<br>HOLT/ANDREW     |                |
| JOB NO.<br>J113317        |                |
| CONTRACT ID.              |                |
| PROJECT NO.               |                |
| BRIDGE NO.                |                |

| DESCRIPTION |  |  |  |  |  |  |  |  |  |
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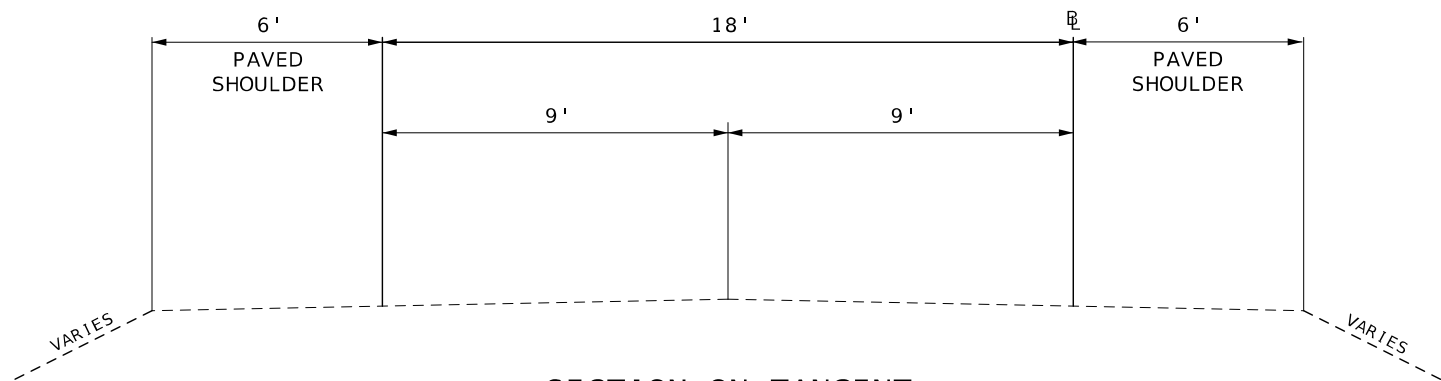
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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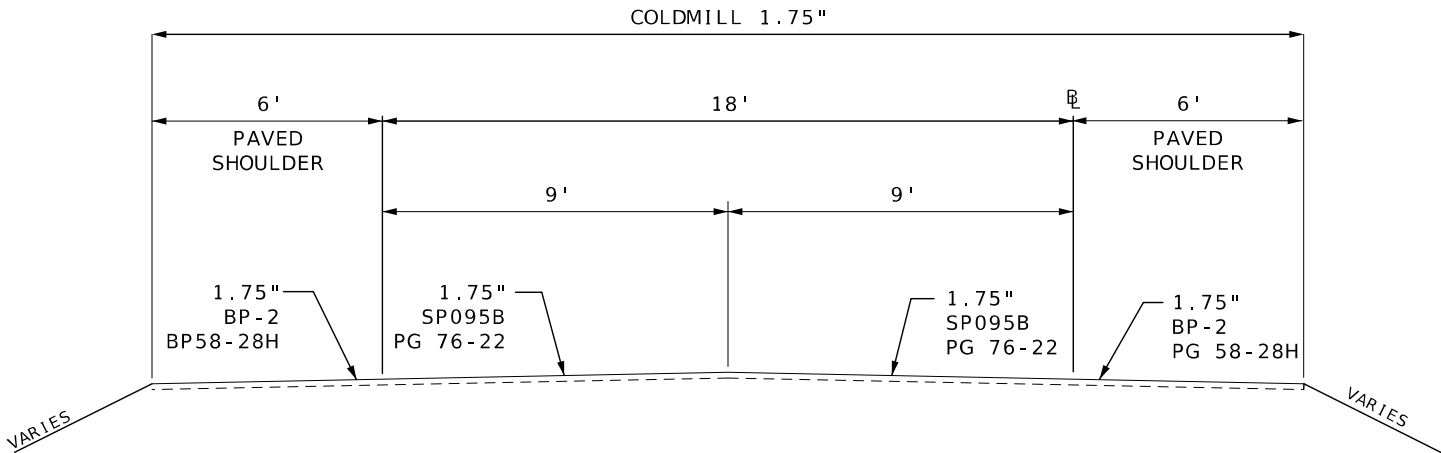
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SECTION ON TANGENT  
EXISTING TYPICAL SECTION RAMP 1 - I-29 S.B. TO I-229 S.B.

| PAVEMENT HISTORY |                                                                         |                                                                                                                      |
|------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| YEAR             | DESCRIPTION                                                             |                                                                                                                      |
|                  | TRAVELED WAY                                                            | SHOULDERS                                                                                                            |
| 1987             | 4" TYPE 3 AGGR.<br>8" REINFORCED PCCP                                   | 5" TYPE 4 AGGR.<br>5" TYPE 1 OR 2 AGGR.<br>2" PLANT MIX BIT. MATERIAL                                                |
| 2010             | 2" SP1090B PG 70-22<br>0.75" UNBONDED ASPHALT<br>WEARING SURFACE TYPE C | 2" BIT. PAVEMENT MIX PG64-22<br>0.75" UNBONDED ASPHALT<br>WEARING SURFACE TYPE C<br>(2' OF LEFT AND RIGHT SHOULDERS) |
| 2020             | 1.75" SP125C PG70-22                                                    | 1.5" BP-2 PG64-22                                                                                                    |



SECTION ON TANGENT  
PROPOSED TYPICAL SECTION RAMP 1 - I-29 S.B. TO I-229 S.B.



*Brian M. Rosenthal*  
09/08/2023 9:08:50 AM  
BRIAN M. ROSENTHAL - CIVIL  
MO-PE-2005022151

|               |           |
|---------------|-----------|
| DATE PREPARED |           |
| 9/7/2023      |           |
| ROUTE         | STATE     |
| I - 29        | MO        |
| DISTRICT      | SHEET NO. |
| NW            | 2         |
| COUNTY        |           |
| HOLT / ANDREW |           |
| JOB NO.       |           |
| J113317       |           |
| CONTRACT ID.  |           |

PROJECT NO.

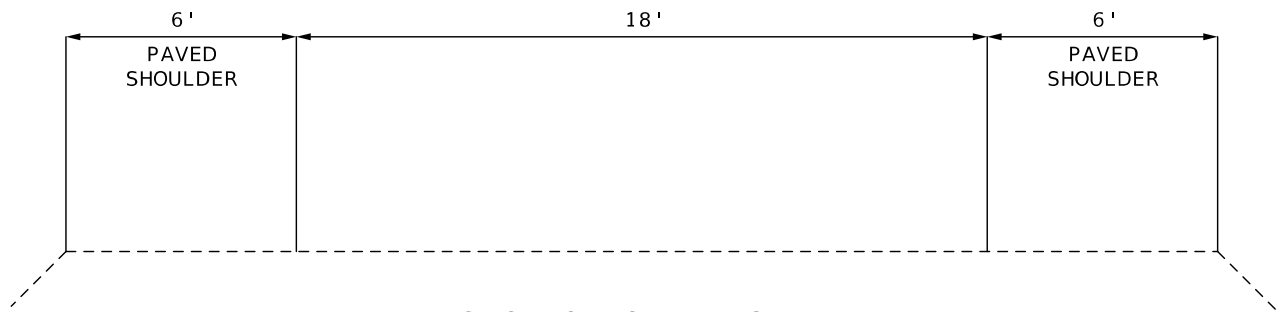
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| DESCRIPTION | DATE |  |  |  |  |  |  |  |  |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

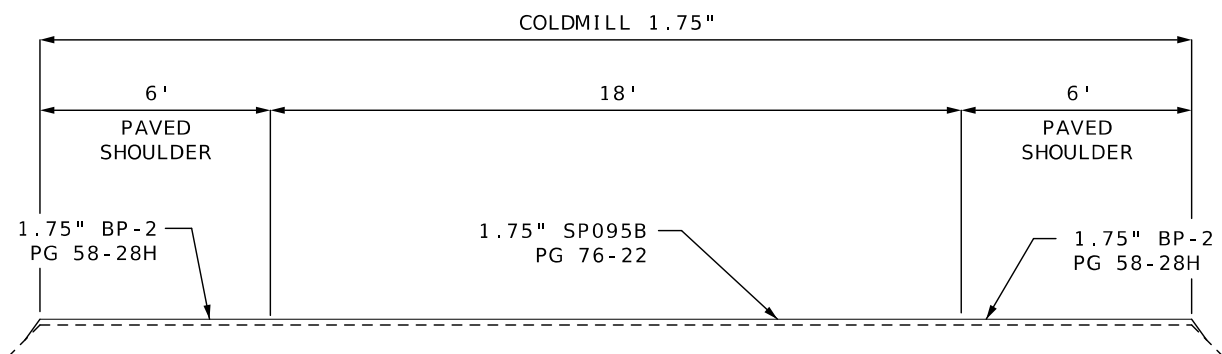
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SECTION ON TANGENT  
EXISTING TYPICAL SECTION RAMP 2 - RTE. 71 N.B. TO I-29 N.B.  
STA. 0+00.00 TO STA. 5+27.90

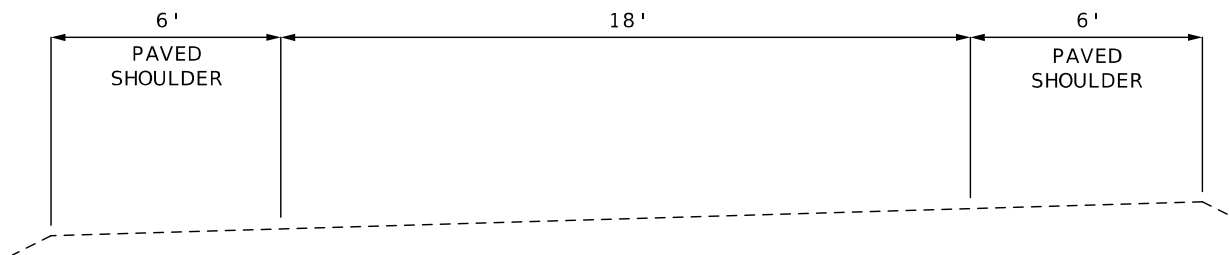
RAMP 2:

| PAVEMENT HISTORY |                                                                    |                                                                   |
|------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|
| YEAR             | DESCRIPTION                                                        |                                                                   |
|                  | TRAVELED WAY                                                       | SHOULDERS                                                         |
| 1987             | 4" TYPE 3 AGGR.<br>8" REINFORCED PCCP                              | 5" TYPE 4 AGGR.<br>5" TYPE 1 OR 2 AGGR.<br>2" PLANT MIX BIT. BASE |
| 2012             | 1/2" SP048 PG64-22<br>1.5" SP095C PG 64-22<br>1.5" SP095C PG 64-23 | 3.5" BP-1 PG 64-22                                                |



SECTION ON TANGENT  
PROPOSED TYPICAL SECTION RAMP 2 - RTE. 71 N.B. TO I-29 N.B.  
STA. 0+00.00 TO STA. 5+27.90

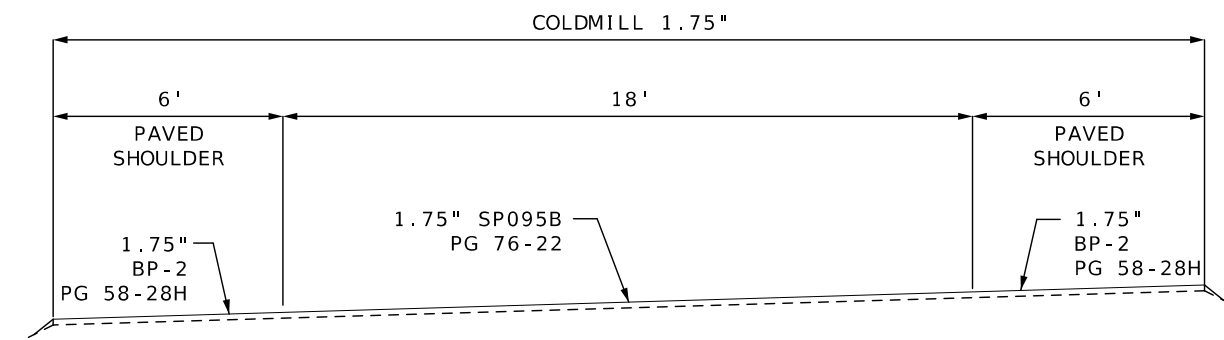
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SECTION ON SUPERELEVATED CURVE  
EXISTING TYPICAL SECTION RAMP 3 - RTE. 71 S.B. TO I-29 S.B.

RAMP 3:

| PAVEMENT HISTORY |                                                                    |                      |
|------------------|--------------------------------------------------------------------|----------------------|
| YEAR             | DESCRIPTION                                                        |                      |
|                  | TRAVELED WAY                                                       | SHOULDERS            |
| 1987             | 4" TYPE 3 AGGR.<br>8" REINFORCED PCCP                              | 3" TYPE 1 OR 2 AGGR. |
| 2012             | 1/2" SP048 PG64-22<br>1.5" SP095C PG 64-22<br>1.5" SP095C PG 64-23 | 3.5" BP-1 PG64-22    |



SECTION ON SUPERELEVATED CURVE  
PROPOSED TYPICAL SECTION RAMP 2 - RTE. 71 N.B. TO I-29 N.B.  
STA. 5+27.90 TO STA. 11+45.60  
PROPOSED TYPICAL SECTION RAMP 3 - RTE. 71 S.B. TO I-29 S.B.

TYPICAL SECTIONS  
SHEET 4 OF 8

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER

Brian M. Rosenthal

09/08/2023 9:00:19 AM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED  
9/7/2023

ROUTE  
1-29

DISTRICT  
NW

STATE  
MO

SHEET NO.  
2

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

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)

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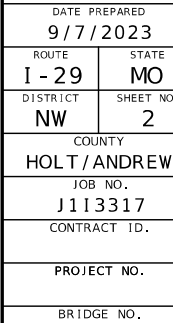
Diagram illustrating the cross-section of a road on a super-elevated curve. The diagram shows the following components and dimensions:

- PAVED SHLDR.:** Two shoulders, each 2' wide.
- 1.75" SP095B PG 76-22:** Three sections of 1.75" thick concrete curb and gutter, each 16' wide.
- AGGR. SHLDR.:** An aggregate shoulder, 6' wide.
- 2" GRAVEL (A) OR CRUSHED STONE (B):** A 2" thick layer of gravel or crushed stone, 6' wide.
- SAFETY EDGE:** Indicated on the outer edges of the road.
- SECTION ON SUPERELEVATED CURVE:** The overall section is labeled as such.

SECTION ON SUPERELEVATED CURVE

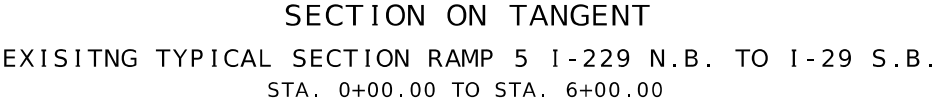
PROPOSED TYPICAL SECTION RAMP 4 - I-29 N.B. TO RTE. 71 N.B.

TYPICAL SECTIONS  
SHEET 5 OF 8

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITAL  
JEFFERSON CITY, MO 65102



2" GRAVEL (A)  
OR CRUSHED STONE (B)

6'

AGGR. SHLDR.

16'

PAVED SHLDR.

2'

1.75" SP095B  
PG 76-22

1.75" SP095B  
PG 76-22

SAFETY EDGE

SAFETY EDGE

SECTION ON TANGENT

PROPOSED TYPICAL SECTION RAMP 5 I-229 N.B. TO I-29 S.B.

STA. 0+00.00 TO STA. 6+00.00



MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT / 1-888-275-6626

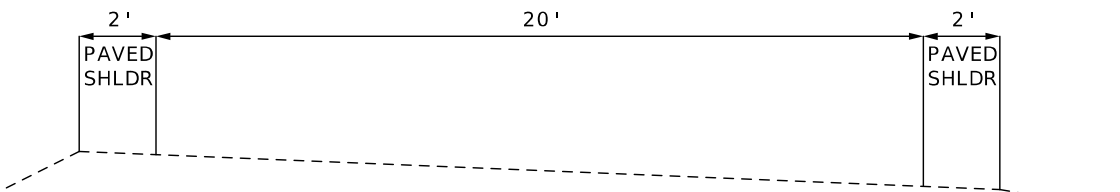


MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT / 1-888-275-6626

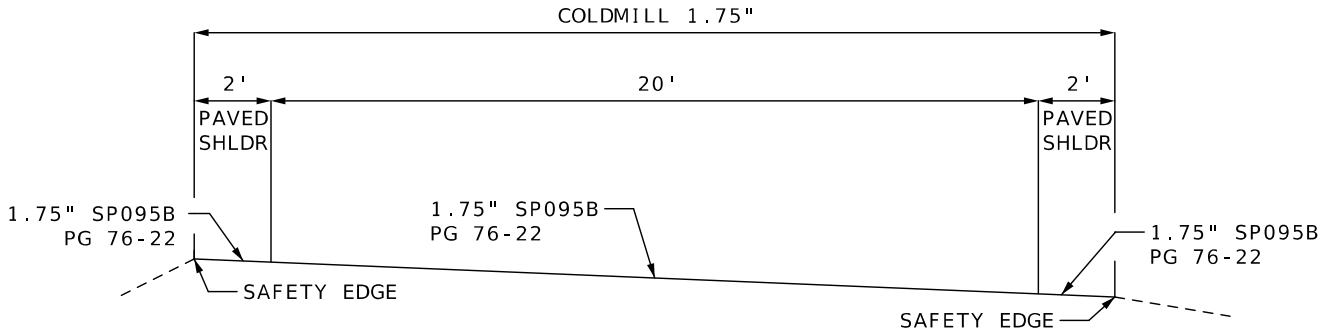
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REV.



SECTION ON SUPERELEVATED CURVE  
EXISTING TYPICAL SECTION RAMP 6 - I-29 N.B. TO I-229 S.B.  
EXISTING TYPICAL SECTION RAMP 7 - I-29 S.B. TO RTE. 71 N.B.

| PAVEMENT HISTORY |                      |                      |
|------------------|----------------------|----------------------|
| YEAR             | DESCRIPTION          |                      |
|                  | TRAVELED WAY         | SHOULDERS            |
| 1987             | 8" REINFORCED PCCP   | 3" TYPE 1 OR 2 AGGR. |
| 2012             | 1/2" SP048 PG64-22   | 3.5" BP-1 PG64-22    |
|                  | 1.5" SP095C PG 64-22 |                      |
|                  | 1.5" SP095C PG 64-23 |                      |



SECTION ON SUPERELEVATED CURVE  
PROPOSED TYPICAL SECTION RAMP 6 - I-29 N.B. TO I-229 S.B.  
PROPOSED TYPICAL SECTION RAMP 7 - I-29 S.B. TO RTE. 71 N.B.



|                           |                |
|---------------------------|----------------|
| DATE PREPARED<br>9/7/2023 |                |
| ROUTE<br>I - 29           | STATE<br>MO    |
| DISTRICT<br>NW            | SHEET NO.<br>2 |
| COUNTY<br>HOLT / ANDREW   |                |
| JOB NO.<br>J113317        |                |
| CONTRACT ID.              |                |
| PROJECT NO.               |                |
| BRIDGE NO.                |                |

| DESCRIPTION | DATE |
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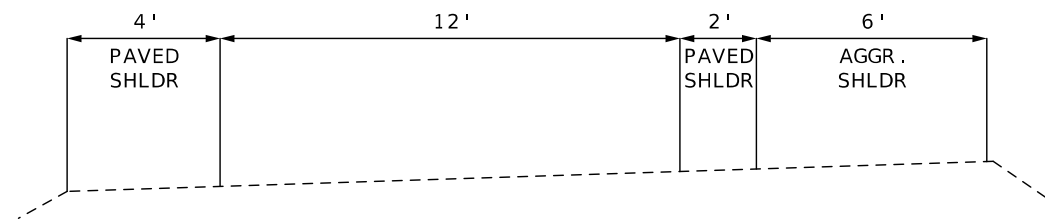
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

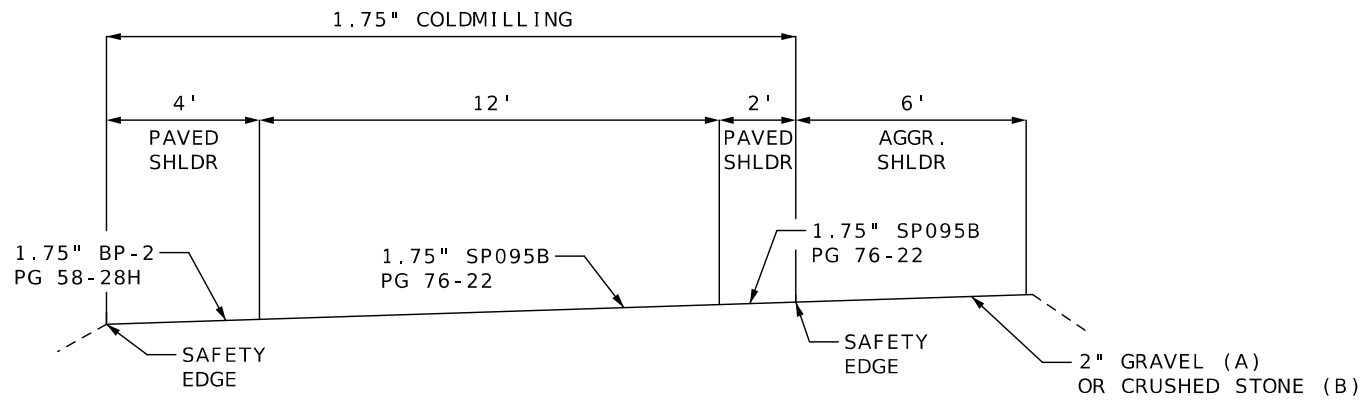
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SECTION ON SUPERELEVATED CURVE  
EXISTING TYPICAL SECTION RAMP 8 - RTE. 71 S.B. TO  
I-29 N.B.

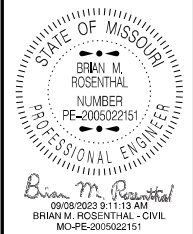
| PAVEMENT HISTORY |                                                                    |                      |
|------------------|--------------------------------------------------------------------|----------------------|
| YEAR             | DESCRIPTION                                                        |                      |
|                  | TRAVELED WAY                                                       | SHOULDERS            |
| 1987             | 8" REINFORCED PCCP                                                 | 3" TYPE 1 OR 2 AGGR. |
| 2012             | 1/2" SP048 PG64-22<br>1.5" SP095C PG 64-22<br>1.5" SP095C PG 64-23 | 3.5" BP-1 PG64-22    |



SECTION ON SUPERELEVATED CURVE  
PROPOSED TYPICAL SECTION RAMP 8 - RTE. 71 S.B. TO  
I-29 N.B.

NOT TO SCALE

TYPICAL SECTIONS  
SHEET 8 OF 8



|                           |                |
|---------------------------|----------------|
| DATE PREPARED<br>9/7/2023 |                |
| ROUTE<br>1-29             | STATE<br>MO    |
| DISTRICT<br>NW            | SHEET NO.<br>2 |
| COUNTY<br>HOLT / ANDREW   |                |
| JOB NO.<br>J113317        |                |
| CONTRACT ID.              |                |
| PROJECT NO.               |                |
| BRIDGE NO.                |                |

| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



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

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| REV. |
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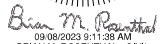
| SP095B RESURFACING - I-29 MAINLINE, I-29 INSIDE SHOULDERS, & RAMPS (1 OF 2) |            |                              |               |              |              |              |                                                             |                  |                                             |
|-----------------------------------------------------------------------------|------------|------------------------------|---------------|--------------|--------------|--------------|-------------------------------------------------------------|------------------|---------------------------------------------|
| STA.                                                                        | STA.       | LOC.                         | LENGTH<br>FT. | WIDTH<br>FT. | DEPTH<br>IN. | VOLUME<br>CY | ASPHALTIC<br>CONCRETE<br>MIXTURE<br>SP095B PG 76-22<br>TONS | TACK COAT<br>GAL | REMARKS                                     |
| 1678+19.28                                                                  | 1709+35.50 | I-29 SB                      | 3116.22       | 30           | 1.75         | 504.9        | 989.60                                                      | 1038.7           | BEG. OF PROJECT TO BR. A1287                |
|                                                                             |            |                              |               |              |              | 46.0         | 90.16                                                       | 94.6             | ACCEL. LANE @ ROUTE 59/VENTURA DR.          |
| 1718+49.50                                                                  | 217+98.62  | I-29 SB                      | 22097.04      | 30           | 1.75         | 3580.5       | 7,017.78                                                    | 7365.7           | BR. A1287 TO BR. A1290                      |
| 1721+47.92 BK. =                                                            | 0+00 AH.   |                              |               |              |              |              |                                                             |                  | STATION EQUATION AT HOLT/ANDREW COUNTY LINE |
| 220+41.62                                                                   | 397+89.25  | I-29 SB                      | 17747.63      | 30           | 1.75         | 2875.8       | 5,636.57                                                    | 5915.9           | BR. A1290 TO BR. A1292                      |
| 398+94.25                                                                   | 408+81.50  | I-29 SB                      | 987.25        | 30           | 1.75         | 160.0        | 313.60                                                      | 329.1            | BR. A1292 TO BR. BR. A8824                  |
| 412+44.00                                                                   | 495+61.71  | I-29 SB                      | 8317.71       | 30           | 1.75         | 1347.8       | 2,641.69                                                    | 2772.6           | BR. A8824 TO BR. BR. A1202                  |
| 495+61.71                                                                   | 497+70.22  | I-29 SB                      | 209.00        | 29.5         | 1.75         | 33.3         | 65.27                                                       | 68.5             | BR. A1202                                   |
| 497+70.22                                                                   | 504+42.49  | I-29 SB                      | 672.27        | 30           | 1.75         | 108.9        | 213.44                                                      | 224.1            | BR. A1202 TO BR. A1203                      |
| 504+42.49                                                                   | 506+69.34  | I-29 SB                      | 227.00        | 38.5         | 1.75         | 47.2         | 92.51                                                       | 97.1             | BR. A1203                                   |
| 506+69.34                                                                   | 583+89.10  | I-29 SB                      | 7719.76       | 30           | 1.75         | 1250.9       | 2,451.76                                                    | 2573.3           | BR. A1203 TO BR. A1294                      |
| 590+01.10                                                                   | 686+40.96  | I-29 SB                      | 9639.86       | 30           | 1.75         | 1562.0       | 3,061.52                                                    | 3213.3           | BR. A1294 TO END OF PROJECT                 |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                             |
| 04+96.60                                                                    | 11+42.33   | ROUTE 59/CR 72/CR 462 RAMP 2 | 645.73        | 18           | 1.75         | 62.8         | 123.09                                                      | 129.1            |                                             |
|                                                                             |            |                              |               |              |              | 25.1         | 49.20                                                       | 51.6             | AREA OF DECEL. LANE                         |
| 00+70.00                                                                    | 06+39.36   | ROUTE 59/CR 72/CR 462 RAMP 4 | 569.36        | 18           | 1.75         | 55.4         | 108.58                                                      | 113.9            |                                             |
|                                                                             |            |                              |               |              |              | 27.1         | 53.12                                                       | 55.7             | AREA OF ACCEL. LANE                         |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                             |
| 01+56.50                                                                    | 13+29.68   | ROUTE K/ROUTE CC RAMP 3      | 1173.18       | VARIES       | 1.75         | 57.3         | 118.91                                                      | 117.8            | INCLUDES 2% FOR SAFETY EDGE                 |
|                                                                             |            |                              |               |              |              | 57.1         | 111.92                                                      | 117.5            | AREA OF DECEL. LANE                         |
| 00+00.00                                                                    | 15+22.53   | ROUTE K/ROUTE CC RAMP 4      | 1522.53       | VARIES       | 1.75         | 72.8         | 149.99                                                      | 149.7            | INCLUDES 2% FOR SAFETY EDGE                 |
|                                                                             |            |                              |               |              |              | 41.0         | 80.36                                                       | 84.3             | AREA OF ACCEL. LANE                         |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                             |
| 0+00.00                                                                     | 10+06.37   | S.B. I-229 RAMP 1            | 1006.37       | 18           | 1.75         | 97.8         | 191.69                                                      | 201.3            |                                             |
|                                                                             |            |                              |               |              |              | 79.0         | 154.84                                                      | 162.5            | AREA OF DECEL. LANE                         |
| 0+00.00                                                                     | 12+32.88   | S.B. ROUTE 71 RAMP 3         | 1232.88       | 18           | 1.75         | 119.9        | 235.00                                                      | 246.6            |                                             |
|                                                                             |            |                              |               |              |              | 42.6         | 83.50                                                       | 87.6             | AREA OF ACCEL. LANE                         |
| 0+00.00                                                                     | 16+26.65   | N.B. ROUTE 71 RAMP 7         | 1626.65       | 24           | 1.75         | 210.9        | 413.36                                                      | 433.8            | INCLUDES 2% FOR SAFETY EDGE                 |
|                                                                             |            |                              |               |              |              | 50.4         | 98.78                                                       | 103.7            | AREA OF DECEL. LANE                         |
| 0+00.00                                                                     | 6+00.00    | N.B. I-229 RAMP 5            | 600.00        | 18           | 1.75         | 58.3         | 114.27                                                      | 120.0            | INCLUDES 2% FOR SAFETY EDGE                 |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                             |
| 05+34.56                                                                    | 16+91.61   | BUSINESS 71 RAMP 2           | 1157.05       | 18           | 1.75         | 112.5        | 220.50                                                      | 231.4            |                                             |
|                                                                             |            |                              |               |              |              | 62.9         | 123.28                                                      | 129.4            | AREA OF DECEL. LANE                         |
| 00+54.00                                                                    | 10+22.23   | BUSINESS 71 RAMP 4           | 968.23        | 18           | 1.75         | 94.1         | 184.44                                                      | 193.6            |                                             |
|                                                                             |            |                              |               |              |              | 66.6         | 130.54                                                      | 137.0            | AREA OF ACCEL. LANE                         |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                             |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                             |
|                                                                             |            |                              |               |              |              | SB SUBTOTALS | 25319.27                                                    | 26559.4          |                                             |

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER  
PE-2005022151

PROFESSIONAL ENGINEER



09/08/2023 9:11:36 AM  
BRIAN M. ROSENTHAL - CIVIL  
MO-PE-2005022151

DATE PREPARED  
9/7/2023

ROUTE  
1-29

DISTRICT  
NW

STATE  
MO

SHEET NO.  
3

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

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)

REV.

| SP095B RESURFACING - I-29 MAINLINE, I-29 INSIDE SHOULDERS, & RAMPS (2 OF 2) |            |                              |               |              |              |              |                                                             |                  |                                                       |
|-----------------------------------------------------------------------------|------------|------------------------------|---------------|--------------|--------------|--------------|-------------------------------------------------------------|------------------|-------------------------------------------------------|
| STA.                                                                        | STA.       | LOC.                         | LENGTH<br>FT. | WIDTH<br>FT. | DEPTH<br>IN. | VOLUME<br>CY | ASPHALTIC<br>CONCRETE<br>MIXTURE<br>SP095B PG 76-22<br>TONS | TACK COAT<br>GAL | REMARKS                                               |
| 1678+68.10                                                                  | 1709+35.50 | I-29 NB                      | 3067.40       | 30           | 1.75         | 497.0        | 974.12                                                      | 1022.5           | BEG. OF PROJECT TO BR. G0490                          |
|                                                                             |            |                              |               |              |              | 61.8         | 121.13                                                      | 127.1            | DECEL. LANE @ RTE. 59/VENTURA DR.                     |
| 1718+49.50                                                                  | 217+68.05  | I-29 NB                      | 22066.47      | 30           | 1.75         | 3575.6       | 7008.18                                                     | 7355.5           | BR. G0490 TO BR. A1290                                |
| 1721+47.92 BK. =                                                            | 0+00 AH.   |                              |               |              |              |              |                                                             |                  | STATION EQUATION AT HOLT/ANDREW COUNTY LINE           |
| 220+11.05                                                                   | 397+87.25  | I-29 NB                      | 17776.20      | 30           | 1.75         | 2880.4       | 5645.58                                                     | 5925.4           | BR. A1290 TO BR. A1292                                |
| 398+92.25                                                                   | 408+82.00  | I-29 NB                      | 989.75        | 30           | 1.75         | 160.4        | 314.38                                                      | 329.9            | BR. A1292 TO BR. A8823                                |
| 412+70.50                                                                   | 493+37.63  | I-29 NB                      | 8067.13       | 30           | 1.75         | 1307.2       | 2562.11                                                     | 2689.0           | BR. A8823 TO BR. A1200                                |
| 495+61.63                                                                   | 499+71.88  | I-29 NB                      | 410.25        | 30           | 1.75         | 66.5         | 130.34                                                      | 136.8            | BR. A1200 TO BR. A1201                                |
| 503+46.88                                                                   | 582+85.39  | I-29 NB                      | 7938.51       | 30           | 1.75         | 1286.3       | 2521.15                                                     | 2646.2           | BR. A1201 TO BR. A1294                                |
| 588+97.39                                                                   | 685+41.94  | I-29 NB                      | 9644.55       | 30           | 1.75         | 1562.8       | 3063.09                                                     | 3214.9           | BR. A1294 TO END OF PROJECT                           |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                                       |
| 00+69.00                                                                    | 04+35.81   | ROUTE 59/CR 72/CR 462 RAMP 1 | 366.81        | 18           | 1.75         | 35.7         | 71.35                                                       | 73.4             | INCLUDES 2% FOR SAFETY EDGE                           |
|                                                                             |            |                              |               |              |              | 43.2         | 84.67                                                       | 88.9             | AREA OF ACCEL. LANE                                   |
| 02+14.15                                                                    | 08+97.33   | ROUTE 59/CR 72/CR 462 RAMP 3 | 683.18        | 18           | 1.75         | 66.4         | 132.71                                                      | 136.6            | INCLUDES 2% FOR SAFETY EDGE                           |
|                                                                             |            |                              |               |              |              | 47.3         | 92.71                                                       | 97.3             | AREA OF DECEL. LANE                                   |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                                       |
| 00+00.00                                                                    | 17+89.38   | ROUTE K/ROUTE CC RAMP 1      | 1789.38       | VARIES       | 1.75         | 49.1         | 106.44                                                      | 101.0            |                                                       |
|                                                                             |            |                              |               |              |              | 31.7         | 62.13                                                       | 65.2             | AREA FOR ACCEL. LANE                                  |
| 01+58.05                                                                    | 15+34.38   | ROUTE K/ROUTE CC RAMP 2      | 1376.33       | VARIES       | 1.75         | 52.7         | 111.39                                                      | 108.4            |                                                       |
|                                                                             |            |                              |               |              |              | 31.3         | 61.35                                                       | 64.4             | AREA FOR DECEL. LANE                                  |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                                       |
| 0+00.00                                                                     | 17+87.13   | S.B. ROUTE 71 RAMP 8         | 1787.13       | 14           | 1.75         | 135.1        | 271.40                                                      | 278.0            | INCLUDES 2% FOR SAFETY EDGE                           |
|                                                                             |            |                              |               |              |              | 54.1         | 106.04                                                      | 111.3            | AREA OF ACCEL. LANE                                   |
| 0+00.00                                                                     | 13+83.69   | S.B. I-229 RAMP 6            | 1383.69       | 24           | 1.75         | 179.4        | 358.55                                                      | 369.0            | INCLUDES 2% FOR SAFETY EDGE                           |
|                                                                             |            |                              |               |              |              | 34.3         | 67.23                                                       | 70.6             | AREA OF DECEL. LANE                                   |
| 0+00.00                                                                     | 11+45.60   | N.B. I-229 RAMP 2            | 1145.60       | 18           | 1.75         | 111.4        | 218.34                                                      | 229.1            |                                                       |
|                                                                             |            |                              |               |              |              | 12.4         | 24.30                                                       | 25.5             | AREA OF ACCEL. LANE                                   |
| 0+00.00                                                                     | 8+43.98    | N.B. ROUTE 71 RAMP 4         | 843.98        | 20           | 1.75         | 91.2         | 181.92                                                      | 187.6            | INCLUDES 2% FOR SAFETY EDGE                           |
|                                                                             |            |                              |               |              |              | 80.6         | 157.98                                                      | 165.8            | AREA OF DECEL. LANE                                   |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                                       |
| 00+58.00                                                                    | 10+99.13   | BUSINESS 71 RAMP 1           | 1041.13       | 18           | 1.75         | 101.2        | 198.35                                                      | 208.2            |                                                       |
|                                                                             |            |                              |               |              |              | 39.6         | 77.62                                                       | 81.5             | AREA OF ACCEL. LANE                                   |
| 06+15.54                                                                    | 18+48.36   | BUSINESS 71 RAMP 3           | 1232.82       | 18           | 1.75         | 119.9        | 235.00                                                      | 246.6            |                                                       |
|                                                                             |            |                              |               |              |              | 23.1         | 45.28                                                       | 47.5             | AREA OF DECEL. LANE                                   |
|                                                                             |            |                              |               |              |              |              |                                                             |                  |                                                       |
|                                                                             |            |                              |               |              |              | NB SUBTOTALS | 25004.84                                                    | 26203.2          |                                                       |
|                                                                             |            |                              |               |              |              | SB SUBTOTALS | 25319.27                                                    | 26559.4          | FROM TABLE SUMMARY OF QUANTITIES 2 OF 8               |
|                                                                             |            |                              |               |              |              |              | 1006.48                                                     |                  | 2% FOR SAFETY EDGE, I-29 NBL AND SBL                  |
|                                                                             |            |                              |               |              |              | TOTALS       | 51330.59                                                    | 52762.6          | SEE SUMMARY OF QUANTITIES SHEET 4 OF 8 FOR TACK TOTAL |
|                                                                             |            |                              |               |              |              | PAY TOTALS   | 51330.6                                                     | -                |                                                       |

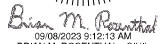
STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER



09/08/2023 9:12:13 AM  
BRIAN M. ROSENTHAL - CIVIL  
MO-PE-2005022151

DATE PREPARED  
9/8/2023

ROUTE  
I - 29

STATE  
MO

DISTRICT  
NW

SHEET NO.  
3

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

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)

REV.

| BP-2 RESURFACING - I-29 OUTSIDE SHOULDER AND RAMP SHOULDERS |            |                              |               |              |              |              |                                                          |                  |                                               |
|-------------------------------------------------------------|------------|------------------------------|---------------|--------------|--------------|--------------|----------------------------------------------------------|------------------|-----------------------------------------------|
| STA.                                                        | STA.       | LOC.                         | LENGTH<br>FT. | WIDTH<br>FT. | DEPTH<br>IN. | VOLUME<br>CY | BITUMINOUS PAVEMENT<br>MIXTURE<br>BP -2 PG58-28H<br>TONS | TACK COAT<br>GAL | REMARKS                                       |
| 1678+19.28                                                  | 1709+35.50 | I-29 SB                      | 3116.22       | 8            | 1.50         | 115.4        | 226.18                                                   | 277.0            | BEG. OF PROJECT TO BR. A1287                  |
| 1718+49.50                                                  | 217+98.62  | I-29 SB                      | 22097.04      | 8            | 1.50         | 818.4        | 1604.06                                                  | 1964.2           | BR. A1287 TO BR. A1290                        |
| 1721+47.92 BK. =                                            | 0+00 AH.   |                              |               |              |              |              |                                                          |                  | STATION EQUATION AT HOLT/ANDREW COUNTY LINE   |
| 220+41.62                                                   | 397+89.25  | I-29 SB                      | 17747.63      | 8            | 1.50         | 657.3        | 1288.31                                                  | 1577.6           | BR. A1290 TO BR. A1292                        |
| 398+94.25                                                   | 408+81.50  | I-29 SB                      | 987.25        | 8            | 1.50         | 36.6         | 71.74                                                    | 87.8             | BR. A1292 TO BR. BR. A8824                    |
| 412+44.00                                                   | 495+61.71  | I-29 SB                      | 8317.71       | 8            | 1.50         | 308.1        | 603.88                                                   | 739.4            | BR. A8824 TO BR. BR. A1202                    |
| 495+61.71                                                   | 497+70.22  | I-29 SB                      | 209.00        | 8            | 1.50         | 7.7          | 15.09                                                    | 18.6             | BR. A1202                                     |
| 497+70.22                                                   | 504+42.49  | I-29 SB                      | 672.27        | 8            | 1.50         | 24.9         | 48.80                                                    | 59.8             | BR. A1202 TO BR. A1203                        |
| 504+42.49                                                   | 506+69.34  | I-29 SB                      | 227.00        | 8            | 1.50         | 8.4          | 16.46                                                    | 20.2             | BR. A1203                                     |
| 506+69.34                                                   | 583+89.10  | I-29 SB                      | 7719.76       | 8            | 1.50         | 285.9        | 560.36                                                   | 686.2            | BR. A1203 TO BR. A1294                        |
| 590+01.10                                                   | 686+40.96  | I-29 SB                      | 9639.86       | 8            | 1.50         | 357.0        | 699.72                                                   | 856.9            | BR. A1294 TO END OF PROJECT                   |
| 04+96.60                                                    | 11+42.33   | ROUTE 59/CR 72/CR 462 RAMP 2 | 645.73        | 12           | 1.75         | 41.9         | 82.12                                                    | 86.1             | BOTH RAMP SHOULDERS                           |
| 00+70.00                                                    | 06+39.36   | ROUTE 59/CR 72/CR 462 RAMP 4 | 569.36        | 12           | 1.75         | 36.9         | 72.32                                                    | 75.9             | BOTH RAMP SHOULDERS                           |
| 0+00.00                                                     | 10+06.37   | S.B. I-229 RAMP 1            | 1006.37       | 12           | 1.75         | 65.2         | 125.84                                                   | 134.2            | BOTH RAMP SHOULDERS                           |
| 0+00.00                                                     | 12+32.88   | S.B. ROUTE 71 RAMP 3         | 1232.88       | 12           | 1.75         | 79.9         | 154.21                                                   | 164.4            | BOTH RAMP SHOULDERS                           |
| 05+34.56                                                    | 16+91.61   | BUSINESS 71 RAMP 2           | 1157.05       | 12           | 1.75         | 75.0         | 147.00                                                   | 154.3            | BOTH RAMP SHOULDERS                           |
| 00+54.00                                                    | 10+22.23   | BUSINESS 71 RAMP 4           | 968.23        | 12           | 1.75         | 62.8         | 123.09                                                   | 129.1            | BOTH RAMP SHOULDERS                           |
|                                                             |            |                              |               |              |              | SB SUBTOTALS | 5839.18                                                  | 7031.7           |                                               |
| 1678+68.10                                                  | 1709+35.50 | I-29 NB                      | 3067.40       | 8            | 1.50         | 113.6        | 222.66                                                   | 272.7            | BEG. OF PROJECT TO BR. G0490                  |
| 1718+49.50                                                  | 217+68.05  | I-29 NB                      | 22066.47      | 8            | 1.50         | 817.3        | 1601.91                                                  | 1961.5           | BR. G0490 TO BR. A1290                        |
| 1721+47.92 BK. =                                            | 0+00 AH.   |                              |               |              |              |              |                                                          |                  | STATION EQUATION AT HOLT/ANDREW COUNTY LINE   |
| 220+11.05                                                   | 397+87.25  | I-29 NB                      | 17776.20      | 8            | 1.50         | 658.4        | 1290.46                                                  | 1580.1           | BR. A1290 TO BR. A1292                        |
| 398+92.25                                                   | 408+82.00  | I-29 NB                      | 989.75        | 8            | 1.50         | 36.7         | 71.93                                                    | 88.0             | BR. A1292 TO BR. A8823                        |
| 412+70.50                                                   | 493+37.63  | I-29 NB                      | 8067.13       | 8            | 1.50         | 298.8        | 585.65                                                   | 717.1            | BR. A8823 TO BR. A1200                        |
| 495+61.63                                                   | 499+71.88  | I-29 NB                      | 410.25        | 8            | 1.50         | 15.2         | 29.79                                                    | 36.5             | BR. A1200 TO BR. A1201                        |
| 503+46.88                                                   | 582+85.39  | I-29 NB                      | 7938.51       | 8            | 1.50         | 294.0        | 576.24                                                   | 705.6            | BR. A1201 TO BR. A1294                        |
| 588+97.39                                                   | 685+41.94  | I-29 NB                      | 9644.55       | 8            | 1.50         | 357.2        | 700.11                                                   | 857.3            | BR. A1294 TO END OF PROJECT                   |
| 00+69.00                                                    | 04+35.81   | ROUTE 59/CR 72/CR 462 RAMP 1 | 366.81        | 12           | 1.75         | 23.8         | 46.65                                                    | 48.9             | BOTH RAMP SHOULDERS                           |
| 02+14.15                                                    | 08+97.33   | ROUTE 59/CR 72/CR 462 RAMP 3 | 683.18        | 12           | 1.75         | 44.3         | 86.83                                                    | 91.1             | BOTH RAMP SHOULDERS                           |
| 0+00.00                                                     | 17+87.13   | S.B. ROUTE 71 RAMP 8         | 1787.13       | 4            | 1.75         | 38.6         | 74.50                                                    | 79.4             | INSIDE RAMP SHOULDER & SAFETY EDGE            |
| 0+00.00                                                     | 11+45.60   | N.B. I-229 RAMP 2            | 1145.60       | 12           | 1.75         | 74.3         | 143.40                                                   | 152.7            | BOTH RAMP SHOULDERS                           |
| 00+58.00                                                    | 10+99.13   | BUSINESS 71 RAMP 1           | 1041.13       | 12           | 1.75         | 67.5         | 132.30                                                   | 138.8            | BOTH RAMP SHOULDERS                           |
| 06+15.54                                                    | 18+48.36   | BUSINESS 71 RAMP 3           | 1232.82       | 12           | 1.75         | 79.9         | 156.60                                                   | 164.4            | BOTH RAMP SHOULDERS                           |
|                                                             |            |                              |               |              |              | NB SUBTOTALS | 5719.03                                                  | 6894.1           |                                               |
|                                                             |            |                              |               |              |              | TOTALS       | 11558.21                                                 | 13925.8          |                                               |
|                                                             |            |                              |               |              |              |              |                                                          | 52762.6          | TOTAL FROM SUMMARY OF QUANTITIES SHEET 3 OF 8 |
|                                                             |            |                              |               |              |              | PAY TOTALS   | 11558.2                                                  | 66688            |                                               |

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER

DATE PREPARED

8/4/2023

ROUTE

1-29

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

| PAVEMENT MARKINGS |           |                             |               |                                                                                    |                                                                                   |                                                                                    |                                                |
|-------------------|-----------|-----------------------------|---------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------|
| STA.              | STA.      | LOC.                        | LENGTH<br>FT. | 6" YELLOW HIGH BUILD<br>WATERBORNE PAVEMENT<br>MARKING PAINT<br>TYPE L BEADS<br>LF | 6" WHITE HIGH BUILD<br>WATERBORNE PAVEMENT<br>MARKING PAINT<br>TYPE L BEADS<br>LF | 12" WHITE HIGH BUILD<br>WATERBORNE PAVEMENT<br>MARKING PAINT<br>TYPE L BEADS<br>LF | REMARKS                                        |
| 1678+19.28        | 686+40.96 | I-29 SB                     | 72969.60      |                                                                                    | 18242.4                                                                           |                                                                                    | INT. WHITE PASSING LINE                        |
| 1678+19.28        | 686+40.96 | I-29 SB LT.                 | 72969.60      | 72969.6                                                                            |                                                                                   |                                                                                    | SOLID INSIDE SHOULDER                          |
| 1678+19.28        | 686+40.96 | I-29 SB RT.                 | 72969.60      |                                                                                    | 72969.6                                                                           |                                                                                    | SOLID OUTSIDE SHOULDER                         |
|                   |           |                             |               | -844.8                                                                             |                                                                                   |                                                                                    | LESS QUANTITY FOR RAMPS (NOSE OF RAMPS - DASH) |
|                   |           |                             |               |                                                                                    | -6969.6                                                                           |                                                                                    | LESS QUANTITY FOR RAMPS (NOSE OF RAMPS - DASH) |
| 04+96.60          | 11+42.33  | RTE. 59/CR 72/CR 462 RAMP 2 | 645.73        | 645.7                                                                              | 645.7                                                                             | 252.4                                                                              | GORE AREA                                      |
| 00+70.00          | 06+39.36  | RTE. 59/CR 72/CR 462 RAMP 4 | 569.36        | 569.4                                                                              | 569.4                                                                             | 246.7                                                                              | GORE AREA                                      |
| 01+56.50          | 13+29.68  | ROUTE K RAMP 3              | 1173.18       | 1173.2                                                                             | 1173.2                                                                            | 209.5                                                                              | GORE AREA                                      |
| 00+00.00          | 15+22.53  | ROUTE K RAMP 4              | 1522.53       | 1522.5                                                                             | 1522.5                                                                            | 213.1                                                                              | GORE AREA                                      |
| 0+00.00           | 10+06.37  | S.B. I-229 RAMP 1           | 1006.37       | 1006.37                                                                            | 1006.37                                                                           | 474.1                                                                              | GORE AREA                                      |
| 0+00.00           | 12+32.88  | S.B. ROUTE 71 RAMP 3        | 1232.88       | 1232.88                                                                            | 1232.88                                                                           | 545.7                                                                              | GORE AREA                                      |
| 0+00.00           | 16+26.65  | N.B. ROUTE 71 RAMP 7        | 1626.65       | 1626.65                                                                            | 1626.65                                                                           | 478.4                                                                              | GORE AREA                                      |
| 0+00.00           | 22+41.77  | N.B. I-229 RAMP 5           | 2241.77       | 2241.77                                                                            | 2241.77                                                                           | 246.73                                                                             | GORE AREA                                      |
| 05+34.56          | 16+91.61  | BUSINESS 71 RAMP 2          | 1157.05       | 1157.1                                                                             | 1157.1                                                                            | 292.8                                                                              | GORE AREA                                      |
| 00+54.00          | 10+22.23  | BUSINESS 71 RAMP 4          | 968.23        | 968.2                                                                              | 968.2                                                                             | 243.0                                                                              | GORE AREA                                      |
|                   |           | SB SUBTOTALS                |               | 84268.6                                                                            | 96386.2                                                                           | 3202.43                                                                            |                                                |
| 1678+68.10        | 685+41.94 | I-29 NB                     | 72821.76      |                                                                                    | 18205.4                                                                           |                                                                                    | INT. WHITE PASSING LINE                        |
| 1678+68.10        | 685+41.94 | I-29 NB LT.                 | 72821.76      | 72821.8                                                                            |                                                                                   |                                                                                    | SOLID INSIDE SHOULDER                          |
| 1678+68.10        | 685+41.94 | I-29 NB RT.                 | 72821.76      |                                                                                    | 72821.8                                                                           |                                                                                    | SOLID OUTSIDE SHOULDER                         |
|                   |           |                             |               |                                                                                    | -5327.5                                                                           |                                                                                    | LESS QUANTITY FOR RAMPS (NOSE OF RAMPS- DASH)  |
|                   |           |                             |               | -106.5                                                                             |                                                                                   |                                                                                    | LESS QUANTITY FOR RAMPS (NOSE OF RAMPS- DASH)  |
| 00+69.00          | 04+35.81  | ROUTE 59 RAMP 1             | 366.81        | 366.8                                                                              | 366.8                                                                             | 303.8                                                                              | GORE AREA                                      |
| 02+14.15          | 08+97.33  | ROUTE 59 RAMP 3             | 683.18        | 683.2                                                                              | 683.2                                                                             | 328.9                                                                              | GORE AREA                                      |
| 00+00.00          | 17+89.38  | ROUTE K RAMP 1              | 1789.38       | 1789.4                                                                             | 1789.4                                                                            | 236.2                                                                              | GORE AREA                                      |
| 01+58.05          | 15+34.38  | ROUTE K RAMP 2              | 1376.33       | 1376.3                                                                             | 1376.3                                                                            | 263.3                                                                              | GORE AREA                                      |
| 0+00.00           | 8+43.98   | N.B. ROUTE 71 RAMP 4        | 843.98        | 843.98                                                                             | 843.98                                                                            | 449.1                                                                              | GORE AREA                                      |
| 0+00.00           | 11+45.60  | N.B. I-229 RAMP 2           | 1145.60       | 1145.60                                                                            | 1145.60                                                                           |                                                                                    |                                                |
| 0+00.00           | 13+83.69  | S.B. I-229 RAMP 6           | 1383.69       | 1383.69                                                                            | 1383.69                                                                           | 165.7                                                                              | GORE AREA                                      |
| 0+00.00           | 17+87.13  | S.B. ROUTE 71 RAMP 8        | 1787.13       | 1787.13                                                                            | 1787.13                                                                           | 168.8                                                                              | GORE AREA                                      |
| 00+58.00          | 10+99.13  | BUSINESS 71 RAMP 1          | 1041.13       | 1041.1                                                                             | 1041.1                                                                            | 246.6                                                                              | GORE AREA                                      |
| 06+15.54          | 18+48.36  | BUSINESS 71 RAMP 3          | 1232.82       | 1232.8                                                                             | 1232.8                                                                            | 287.5                                                                              | GORE AREA                                      |
|                   |           | NB SUBTOTALS                |               | 84365.3                                                                            | 97349.7                                                                           | 2449.9                                                                             |                                                |
|                   |           | TOTALS                      |               | 168633.9                                                                           | 193735.9                                                                          | 5652.3                                                                             |                                                |
|                   |           | PAY TOTALS                  |               | 168634                                                                             | 193736                                                                            | 5652                                                                               |                                                |

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER

*Brian M. Rosenthal*

08/04/2023 5:26:07 PM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED

8/4/2023

ROUTE

1-29

DISTRICT

NW

STATE

MO

SHEET NO.

3

COUNTY

HOLT / ANDREW

JOB NO.

J113317

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

SUMMARY OF QUANTITIES

SHEET 5 OF 8

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| AGGREGATE |          |                         |               |                       |               |              |                                            |
|-----------|----------|-------------------------|---------------|-----------------------|---------------|--------------|--------------------------------------------|
| STA.      | STA.     | LOC.                    | LENGTH<br>FT. | TOTAL<br>WIDTH<br>FT. | DEPTH<br>INCH | VOLUME<br>CY | GRAVEL (A) OR<br>CRUSHED STONE (B)<br>TONS |
| 01+56.50  | 13+29.68 | ROUTE K/ROUTE CC RAMP 3 | VARIES        | VARIES                | 2.00          | 72.90        | 102.06                                     |
| 00+00.00  | 15+22.53 | ROUTE K/ROUTE CC RAMP 4 | VARIES        | VARIES                | 2.00          | 75.50        | 105.70                                     |
|           |          |                         |               |                       |               |              |                                            |
| 0+00.00   | 6+00.00  | N.B. I-229 RAMP 5       | 600.00        | 6.0                   | 2.00          | 22.22        | 31.11                                      |
|           |          |                         |               |                       |               |              |                                            |
|           |          |                         |               |                       |               | SB SUBTOTAL  | 238.87                                     |
|           |          |                         |               |                       |               |              |                                            |
|           |          |                         |               |                       |               |              |                                            |
| 00+00.00  | 17+89.38 | ROUTE K/ROUTE CC RAMP 1 | VARIES        | VARIES                | 2.00          | 103.90       | 145.46                                     |
| 01+58.05  | 15+34.38 | ROUTE K/ROUTE CC RAMP 2 | VARIES        | VARIES                | 2.00          | 70.20        | 98.28                                      |
|           |          |                         |               |                       |               |              |                                            |
| 0+00.00   | 8+43.98  | N.B. ROUTE 71 RAMP 4    | 843.98        | 6.0                   | 2.00          | 31.26        | 43.76                                      |
|           |          |                         |               |                       |               |              |                                            |
| 0+00.00   | 17+87.13 | S.B. ROUTE 71 RAMP 8    | 1787.13       | 6.0                   | 2.00          | 66.19        | 92.67                                      |
|           |          |                         |               |                       |               |              |                                            |
|           |          |                         |               |                       |               | NB SUBTOTAL  | 380.17                                     |
|           |          |                         |               |                       |               | TOTAL        | 619.04                                     |
|           |          |                         |               |                       |               | PAY TOTAL    | 619                                        |

| PARTIAL DEPTH PAVEMENT REPAIR |               |              |              |                                                                     |                                                                                                       |                                                                                      |
|-------------------------------|---------------|--------------|--------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| LOC.                          | LENGTH<br>FT. | WIDTH<br>FT. | DEPTH<br>IN. | REMOVAL FOR<br>CLASS C<br>PARTIAL DEPTH<br>PAVEMENT REPAIR<br>SQ YD | FURNISHING AND<br>PLACING BITUMINOUS MATERIAL<br>FOR CLASS C PARTIAL<br>DEPTH PAVEMENT REPAIR<br>TONS | REMARKS                                                                              |
| I-29 NB AND SB                | 12.0          | 1.0          | 6.0          | 1000.00                                                             | 331.67                                                                                                | ASSUMED TO BE APPROX. 750 12'x1' REPAIR LOCATIONS<br>PLACED AT DIRECTION OF ENGINEER |
|                               |               |              | TOTALS       | 1000.00                                                             | 331.67                                                                                                |                                                                                      |
|                               |               |              | PAY TOTALS   | 1000.0                                                              | 331.7                                                                                                 |                                                                                      |

| MICROSURFACING TYPE III, SINGLE PASS |           |         |               |              |            |                                  |                                                   |
|--------------------------------------|-----------|---------|---------------|--------------|------------|----------------------------------|---------------------------------------------------|
| STA.                                 | STA.      | LOC.    | LENGTH<br>FT. | WIDTH<br>FT. | AREA<br>SF | MICROSURFACING<br>TYPE III<br>SY | REMARKS                                           |
| 492+56.66                            | 513+66.90 | I-29 SB | 2112.69       | VARIES       | 112244.3   | 12471.6                          | INCLUDES OUTSIDE SHOULDER AND ACCEL./DECEL. LANES |
|                                      |           |         |               |              | PAY TOTAL  | 12472                            |                                                   |

| PAVEMENT MARKINGS - STOP BARS FOR RAMPS |                              |                                                                |
|-----------------------------------------|------------------------------|----------------------------------------------------------------|
| STA.                                    | LOCATION                     | PREFORMED THERMOPLASTIC<br>PAVEMENT MARKING<br>24" WHITE<br>LF |
| 11+42.33                                | ROUTE 59/CR 72/CR 462 RAMP 2 | 12.0                                                           |
|                                         |                              |                                                                |
| 13+29.68                                | ROUTE K/ROUTE CC RAMP 3      | 12.0                                                           |
|                                         |                              |                                                                |
| 16+91.61                                | BUSINESS 71 RAMP 2           | 12.0                                                           |
|                                         | SB SUBTOTALS                 | 36.0                                                           |
|                                         |                              |                                                                |
| 08+97.33                                | ROUTE 59/CR 72/CR 462 RAMP 3 | 12                                                             |
|                                         |                              |                                                                |
| 15+34.38                                | ROUTE K/ROUTE CC RAMP 2      | 12                                                             |
|                                         |                              |                                                                |
| 18+48.36                                | BUSINESS 71 RAMP 3           | 12                                                             |
|                                         | NB SUBTOTALS                 | 36.0                                                           |
|                                         | TOTALS                       | 72.0                                                           |
|                                         | PAY TOTALS                   | 72                                                             |

|                        |
|------------------------|
| INTELLIGENT COMPACTION |
| LUMP SUM = 1           |

|                                |
|--------------------------------|
| PAVER-MOUNTED THERMAL PROFILES |
| LUMP SUM = 1                   |

|              |
|--------------|
| MOBILIZATION |
| LUMP SUM = 1 |

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER

*Brian M. Rosenthal*

09/06/2023 7:17:33 AM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED

9/5/2023

ROUTE

1 - 29

STATE

MO

DISTRICT

NW

SHEET NO.

3

COUNTY

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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

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| GUARDRAIL |           |             |               |                        |                                                      |                           |                                       |                                                                 |
|-----------|-----------|-------------|---------------|------------------------|------------------------------------------------------|---------------------------|---------------------------------------|-----------------------------------------------------------------|
| STA.      | STA.      | LOC.        | LENGTH<br>FT. | MGS<br>GUARDRAIL<br>LF | TYPE A<br>CRASHWORTHY END<br>TERMINAL (MASH)<br>EACH | MGS END<br>ANCHOR<br>EACH | SHAPING SLOPES<br>CLASS III<br>100 FT | REMARKS                                                         |
| 175+43.27 | 176+80.77 | I-29 SB RT. | 137.50        | 37.5                   | 1                                                    | -                         | 1.38                                  | MILE MARKER 63.2, NORTH OF BR. A1290                            |
| 241+10.00 | 244+22.50 | I-29 SB RT. | 327.50        | 212.5                  | 1                                                    | 1                         | 3.28                                  | MILE MARKER 62.0, SOUTH OF BR. A1290                            |
| 304+31.00 | 305+31.00 | I-29 SB RT. | 100.00        | -                      | 1                                                    | -                         | 1.00                                  | MILE MARKER 60.4, SOUTH OF RTE. K                               |
|           |           |             | SB SUBTOTALS  | 250.0                  | 3                                                    | 1                         | 5.66                                  |                                                                 |
|           |           |             |               |                        |                                                      |                           |                                       |                                                                 |
| 131+71.08 | 132+71.08 | I-29 NB RT. | 100.00        | -                      | 1                                                    | -                         | 1.00                                  | MILE MARKER 64.0, FILLMORE EXIT<br>SOUTH OF RTE. 59 INTERCHANGE |
|           |           |             |               |                        |                                                      |                           |                                       |                                                                 |
|           |           |             | NB SUBTOTALS  | -                      | 1                                                    | -                         | 1.00                                  |                                                                 |
|           |           |             | TOTALS        | 250.0                  | 4                                                    | 1                         | 6.7                                   |                                                                 |
|           |           |             | PAY TOTALS    | 250                    | 4                                                    | 1                         | 7                                     |                                                                 |

| REMOVAL OF IMPROVEMENTS |           |             |                                    |                                                   |
|-------------------------|-----------|-------------|------------------------------------|---------------------------------------------------|
| STA.                    | STA.      | LOC.        | DESCRIPTION                        | REMARKS                                           |
| 175+67.52               | 176+55.02 | I-29 SB RT. | REMOVE 37.5' OF EXISTING GUARDRAIL | MILE MARKER 63.2, NORTH OF BR. A1290              |
| 241+20.00               | 244+22.50 | I-29 SB RT. | REMOVE 278' OF EXISTING GUARDRAIL  | MILE MARKER 62.0, SOUTH OF BR. A1290              |
| 304+56.00               | 333+01.92 | I-29 SB RT. | REMOVE 50' OF EXISTING GUARDRAIL   | MILE MARKER 60.4, SOUTH OF RTE. K                 |
| 128+26.08               | 132+48.48 | I-29 NB LT. | REMOVE 50' OF EXISTING GUARDRAIL   | MILE MARKER 64.0, FILLMORE EXIT; SOUTH OF RTE. 59 |
| 1 LUMP SUM              |           |             |                                    |                                                   |

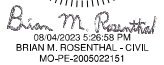
| RUMBLE STRIPS |            |         |               |                                     |                                                                           |
|---------------|------------|---------|---------------|-------------------------------------|---------------------------------------------------------------------------|
| STA.          | STA.       | LOC.    | LENGTH<br>FT. | BIT. SHLDR.<br>RUMBLE STRIP<br>STA. | REMARKS                                                                   |
| 1678+19.28    | 1709+35.50 | I-29 SB | 3116.22       | 31.16                               | BEG. OF PROJ. TO BR. A1287 (INSIDE SHOULDER)                              |
| 1678+19.28    | 1709+35.50 | I-29 SB | 3116.22       | 31.16                               | BEG. OF PROJ. TO BR. A1287 (OUTSIDE SHOULDER)                             |
| 1718+49.50    | 217+98.62  | I-29 SB | 22097.04      | 205.18                              | BR. A1287 TO BR. A1290 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 1718+49.50    | 217+98.62  | I-29 SB | 22097.04      | 220.97                              | BR. A1287 TO BR. A1290 (OUTSIDE SHOULDER)                                 |
| 220+41.62     | 397+89.25  | I-29 SB | 17747.63      | 162.64                              | BR. A1290 TO BR. A1292 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 220+41.62     | 397+89.25  | I-29 SB | 17747.63      | 177.48                              | BR. A1290 TO BR. A1292 (OUTSIDE SHOULDER)                                 |
| 398+94.25     | 408+81.50  | I-29 SB | 987.25        | 9.87                                | BR. A1292 TO BR. A8824 (INSIDE SHOULDER)                                  |
| 398+94.25     | 408+81.50  | I-29 SB | 987.25        | 9.87                                | BR. A1292 TO BR. A8824 (OUTSIDE SHOULDER)                                 |
| 412+44.00     | 583+89.10  | I-29 SB | 17145.1       | 167.23                              | BR. A8824 TO BR. A1294 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 412+44.00     | 583+89.10  | I-29 SB | 17145.1       | 171.45                              | BR. A8824 TO BR. A1294 (OUTSIDE SHOULDER)                                 |
| 590+01.10     | 686+40.96  | I-29 SB | 9639.86       | 73.54                               | BR. A1294 TO END OF PROJECT (INSIDE SHOULDER)                             |
| 590+01.10     | 686+40.96  | I-29 SB | 9639.86       | 94.08                               | BR. A1294 TO END OF PROJECT (OUTSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS) |
|               |            |         | SB SUBTOTAL   | 1354.63                             |                                                                           |
|               |            |         |               |                                     |                                                                           |
| 1678+68.10    | 1709+35.50 | I-29 NB | 3067.40       | 30.67                               | BEG. OF PROJ. TO BR. G0490 (INSIDE SHOULDER)                              |
| 1678+68.10    | 1709+35.50 | I-29 NB | 3067.40       | 30.67                               | BEG. OF PROJ. TO BR. G0490 (OUTSIDE SHOULDER)                             |
| 1718+49.50    | 217+68.05  | I-29 NB | 22066.47      | 204.82                              | BR. G0490 TO BR. A1290 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 1718+49.50    | 217+68.05  | I-29 NB | 22066.47      | 220.66                              | BR. G0940 TO BR. A1290 (OUTSIDE SHOULDER)                                 |
| 220+11.05     | 397+87.25  | I-29 NB | 17776.20      | 162.98                              | BR. A1290 TO BR. A1292 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 220+11.05     | 397+87.25  | I-29 NB | 17776.20      | 177.76                              | BR. A1290 TO BR. A1292 (OUTSIDE SHOULDER)                                 |
| 398+92.25     | 408+82.00  | I-29 NB | 989.75        | 9.90                                | BR. A1292 TO BR. A8823 (INSIDE SHOULDER)                                  |
| 398+92.25     | 408+82.00  | I-29 NB | 989.75        | 9.90                                | BR. A1292 TO BR. A8823 (OUTSIDE SHOULDER)                                 |
| 412+70.50     | 493+37.63  | I-29 NB | 8067.13       | 74.33                               | BR. A8823 TO BR. A1200 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 412+70.50     | 493+37.63  | I-29 NB | 8067.13       | 75.39                               | BR. A8823 TO BR. A1200 (OUTSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)      |
| 495+61.63     | 499+71.88  | I-29 NB | 410.25        | 4.10                                | BR. A1200 TO BR. A1201 (INSIDE SHOULDER)                                  |
| 495+61.63     | 499+71.88  | I-29 NB | 410.25        | 4.10                                | BR. 1200 TO BR. A1201 (OUTSIDE SHOULDER)                                  |
| 503+46.88     | 582+85.39  | I-29 NB | 7938.51       | 73.48                               | BR. A1201 TO BR. A1294 (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)       |
| 503+46.88     | 582+85.39  | I-29 NB | 7938.51       | 79.39                               | BR. A1201 TO BR. A1294 (OUTSIDE SHOULDER)                                 |
| 588+97.39     | 686+40.96  | I-29 NB | 9743.57       | 89.57                               | BR. A1294 TO END OF PROJECT (INSIDE SHOULDER - INCLUDES RAMP DEDUCTIONS)  |
| 588+97.39     | 686+40.96  | I-29 NB | 9743.57       | 97.44                               | BR. A1294 TO END OF PROJECT (OUTSIDE SHOULDER)                            |
|               |            |         | NB SUBTOTAL   | 1345.16                             |                                                                           |
|               |            |         | TOTAL         | 2699.79                             |                                                                           |
|               |            |         | PAY TOTAL     | 2699.8                              |                                                                           |

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER  
PE-2005022151

PROFESSIONAL ENGINEER



DATE PREPARED  
8/4/2023

ROUTE  
1-29

STATE  
MO

DISTRICT  
NW

SHEET NO.  
3

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

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)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



GUARDRAIL N OF BR. A1290, NEAR MILE MARKER 63.2

175

190

CL MED. I-29

CL MED. I-29

STA. 175+43.27  
BEGIN SHAPING  
SLOPES CLASS III

STA. 175+68.27  
BEGIN GUARDRAIL

STA. 176+55.77  
END GUARDRAIL

STA. 176+80.77  
END SHAPING  
SLOPES CLASS III

STA. 189+37.52  
END EXISTING GUARDRAIL

REMOVE  
37.5' OF EXISTING GUARDRAIL RT.

BUILD  
FROM STA. 175+43.27 TO STA. 176+80.77 RT.  
1 TYPE A CRASHWORTHY END TERMINAL (MASH), 37.5' MGS GUARDRAIL, AND 138' OF SHAPING SLOPES CLASS III

SCALE

0 20 40 60

GUARDRAIL PLAN  
SPECIAL SHEET 1 OF 10

|               |           |
|---------------|-----------|
| DATE PREPARED |           |
| 8/4/2023      |           |
| ROUTE         | STATE     |
| I - 29        | MO        |
| DISTRICT      | SHEET NO. |
| NW            | 4         |
| COUNTY        |           |
| HOLT / ANDREW |           |
| JOB NO.       |           |
| J113317       |           |
| CONTRACT ID.  |           |
| PROJECT NO.   |           |
| BRIDGE NO.    |           |

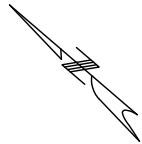
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

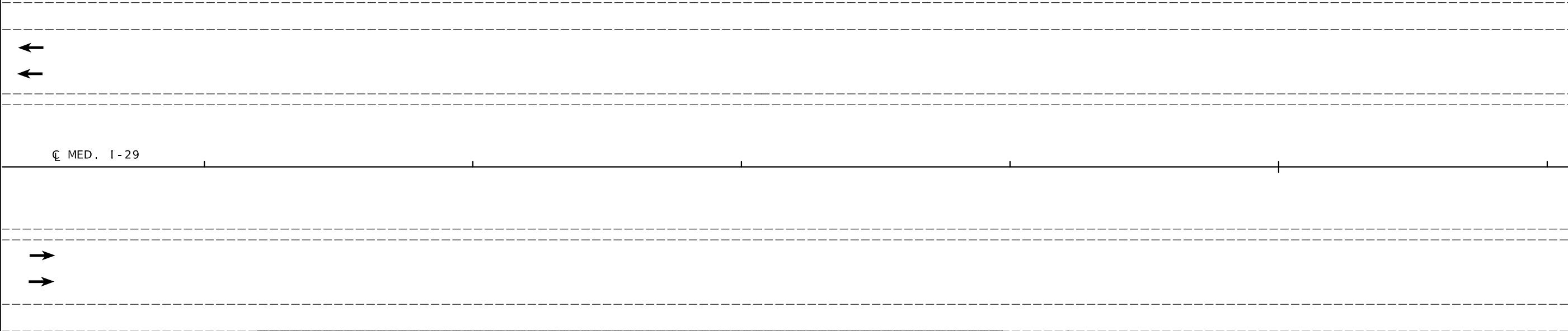
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REV. \_\_\_\_\_ IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



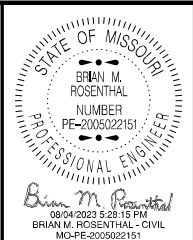
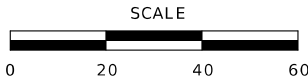
GUARDRAIL S OF BR. A1290, NEAR MILE MARKER 62.0

245



REMOVE  
278' OF EXISTING GUARDRAIL RT.

BUILD  
FROM STA. 241+10.00 TO STA. 243+97.50 RT.  
1 TYPE A CRASHWORTHY END TERMINAL (MASH), 1 MGS END ANCHOR, 212.5' MGS GUARDRAIL, AND 328' OF SHAPING SLOPES CLASS III



|                           |                |
|---------------------------|----------------|
| DATE PREPARED<br>8/4/2023 |                |
| ROUTE<br>1-29             | STATE<br>MO    |
| DISTRICT<br>NW            | SHEET NO.<br>5 |
| COUNTY<br>HOLT / ANDREW   |                |
| JOB NO.<br>J113317        |                |
| CONTRACT ID.              |                |
| PROJECT NO.               |                |
| BRIDGE NO.                |                |

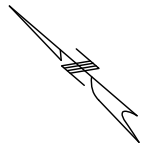
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

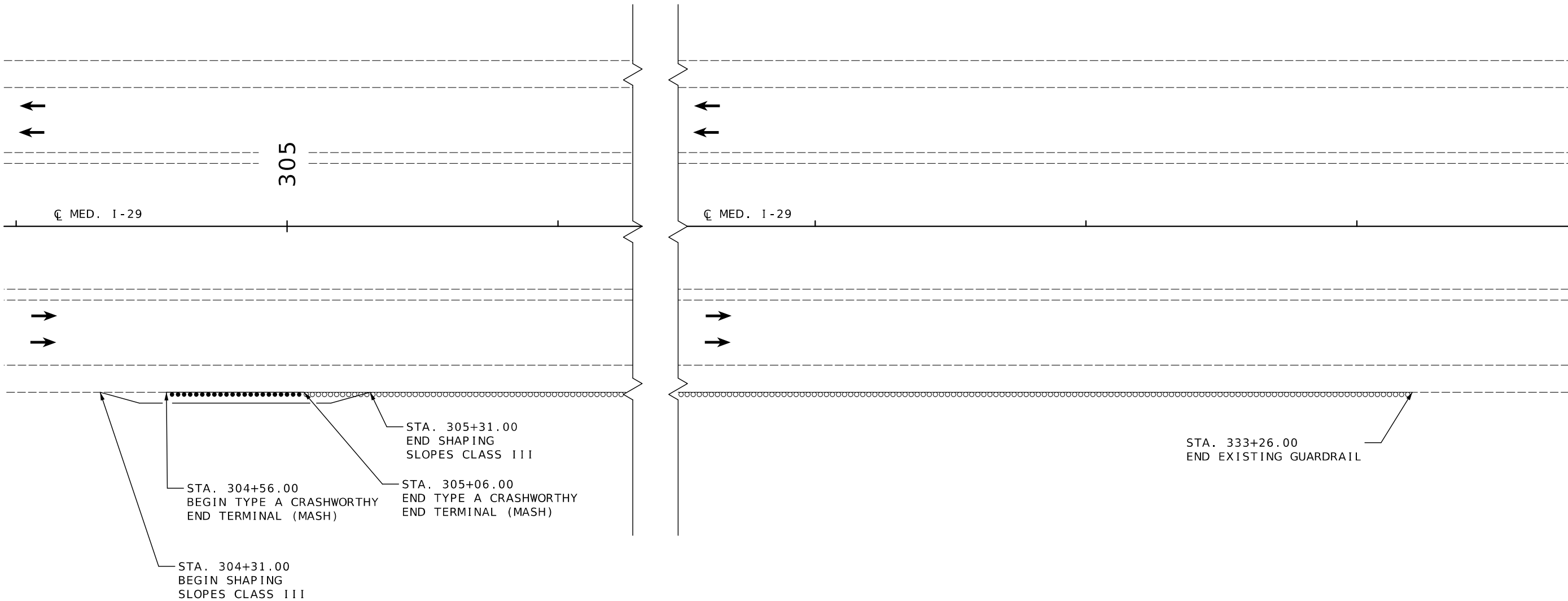


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

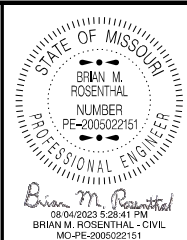
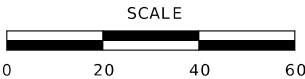


GUARDRAIL S OF RTE. K, NEAR MILE MARKER 60.4



REMOVE  
50' OF EXISTING GUARDRAIL RT.

BUILD  
FROM STA. 304+31.00 TO STA. 305+31.00 RT.  
1 TYPE A CRASHWORTHY END TERMINAL (MASH) AND 101' OF SHAPING SLOPES CLASS III



|                           |                |
|---------------------------|----------------|
| DATE PREPARED<br>8/4/2023 |                |
| ROUTE<br>I-29             | STATE<br>MO    |
| DISTRICT<br>NW            | SHEET NO.<br>6 |
| COUNTY<br>HOLT / ANDREW   |                |
| JOB NO.<br>J113317        |                |
| CONTRACT ID.              |                |
| PROJECT NO.               |                |
| BRIDGE NO.                |                |

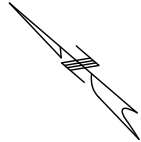
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.



GUARDRAIL S OF RTE. 59, NEAR MILE MARKER 64.0/FILLMORE EXIT

STA. 128+25.54  
END EXISTING GUARDRAIL

130

STA. 131+96.08  
END TYPE A CRASHWORTHY  
END TERMINAL (MASH)

STA. 131+71.08  
END SHAPING  
SLOPES CLASS III

STA. 132+46.08  
BEGIN TYPE A CRASHWORTHY  
END TERMINAL (MASH)

STA. 132+71.08  
BEGIN SHAPING  
SLOPES CLASS III

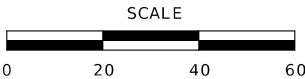


CL MED. I-29



REMOVE  
50' OF EXISTING GUARDRAIL RT.

BUILD  
FROM STA. 131+71.08 TO STA. 132+71.08 RT.  
1 TYPE A CRASHWORTHY END TERMINAL (MASH) AND 101' OF SHAPING SLOPES CLASS III



GUARDRAIL PLAN  
SPECIAL SHEET 4 OF 10

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER  
PE-2005022151

PROFESSIONAL ENGINEER

*Brian M. Rosenthal*  
08/04/2023 5:29:05 PM  
BRIAN M. ROSENTHAL - CIVIL  
MO-PE-2005022151

DATE PREPARED  
8/4/2023

ROUTE  
1-29

DISTRICT  
NW

STATE  
MO

SHEET NO.  
7

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

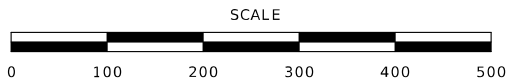
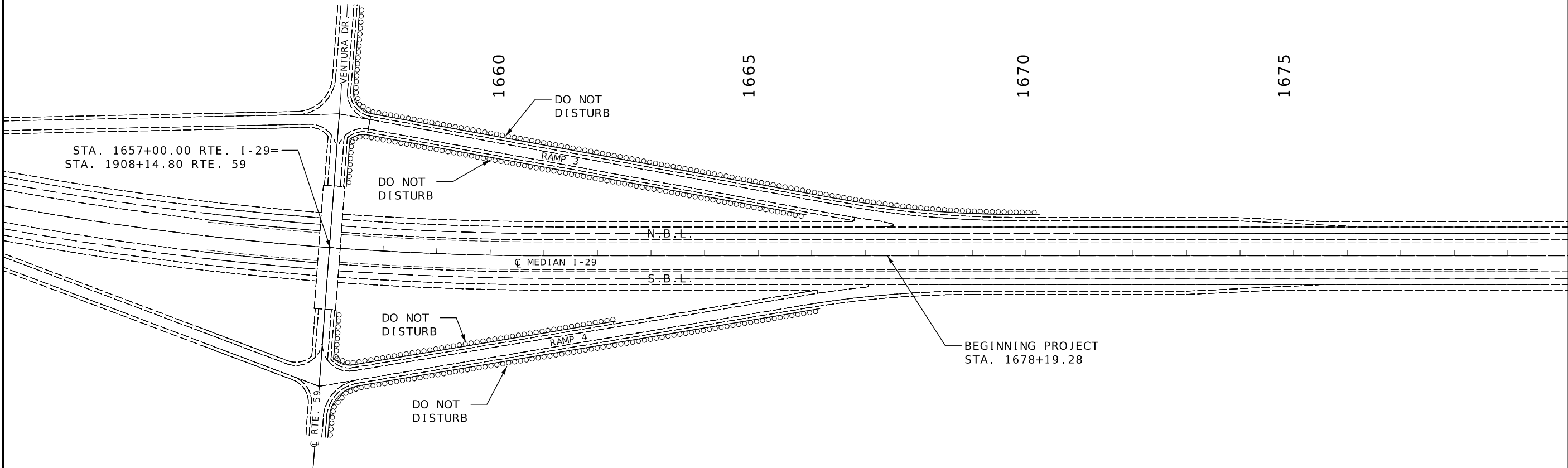


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

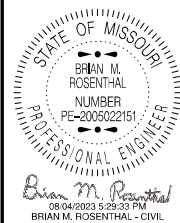
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

BEGINNING OF PROJECT  
INTERCHANGE AT I-29, ROUTE 59, AND VENTURA DR.  
(EXIT 67)



RAMP DETAILS  
SPECIAL SHEET 5 OF 10



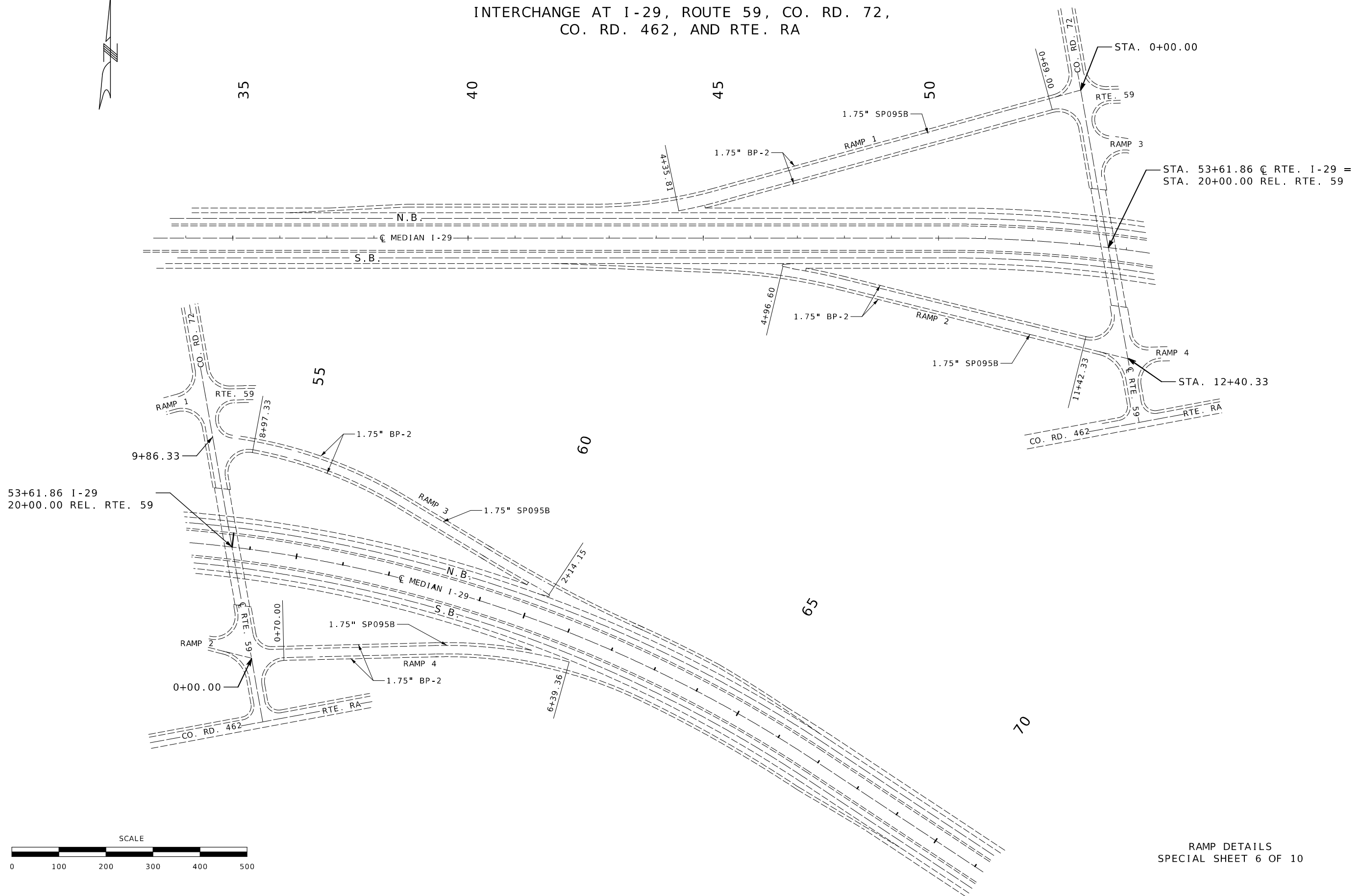
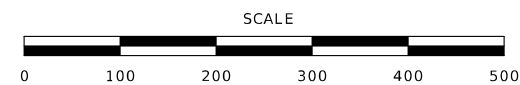
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|---------------------------|----------------|
| DATE PREPARED<br>8/4/2023 |                |
| ROUTE<br>I-29             | STATE<br>MO    |
| DISTRICT<br>NW            | SHEET NO.<br>8 |
| COUNTY<br>HOLT / ANDREW   |                |
| JOB NO.<br>J113317        |                |
| CONTRACT ID.              |                |
| PROJECT NO.               |                |
| BRIDGE NO.                |                |

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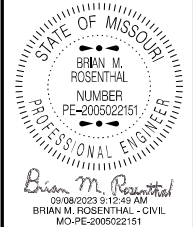
MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.  
REV.



RAMP DETAILS  
SPECIAL SHEET 6 OF 10



DATE PREPARED

9/7/2023

|       |       |
|-------|-------|
| ROUTE | STATE |
| I 20  | MO    |

|          |           |
|----------|-----------|
| 1 - 29   | MO        |
| DISTRICT | SHEET NO. |

NW 9

|        |  |
|--------|--|
| COUNTY |  |
|--------|--|

HOLT / ANDREW

JOB NO.  
1112217

|             |
|-------------|
| J113317     |
| CONTRACT ID |

CONTRACT ID.

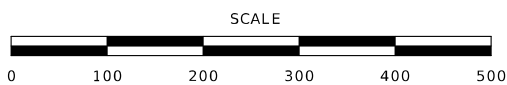
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BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

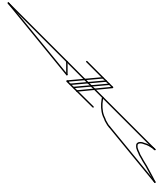
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



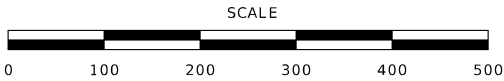
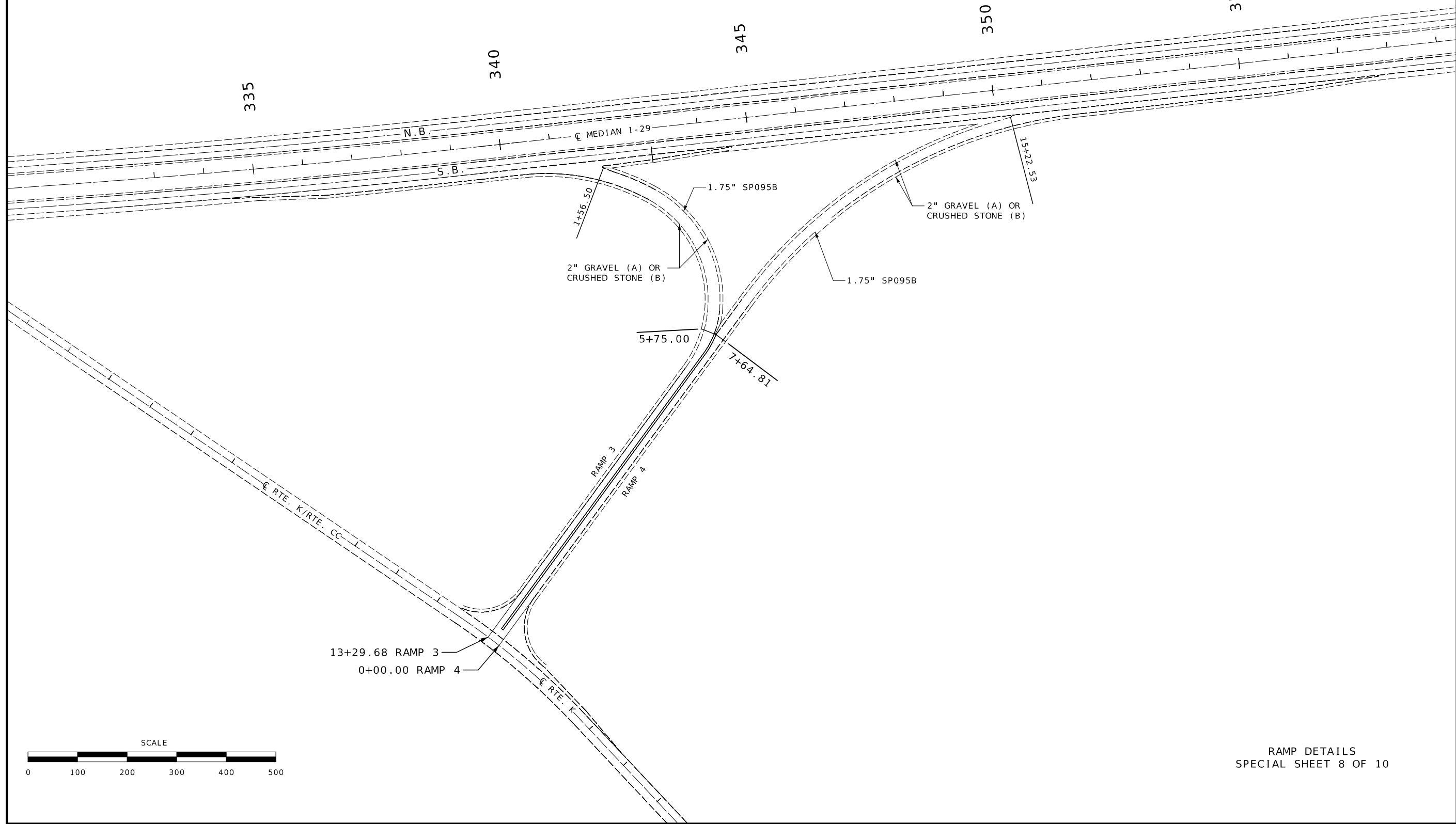
192+87.28 RTE. K =         
327+22.99 I-29



REV.



INTERSECTION OF S.B. I-29 WITH ROUTE K/ROUTE CC



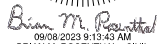
RAMP DETAILS  
SPECIAL SHEET 8 OF 10

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER  
PE-2005022151

PROFESSIONAL ENGINEER



09/08/2023 9:13:43 AM  
BRIAN M. ROSENTHAL - CIVIL  
MO-PE-2005022151

|                           |                 |
|---------------------------|-----------------|
| DATE PREPARED<br>9/7/2023 |                 |
| ROUTE<br>I - 29           | STATE<br>MO     |
| DISTRICT<br>NW            | SHEET NO.<br>11 |
| COUNTY<br>HOLT / ANDREW   |                 |
| JOB NO.<br>J113317        |                 |
| 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)

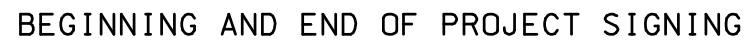
REV.



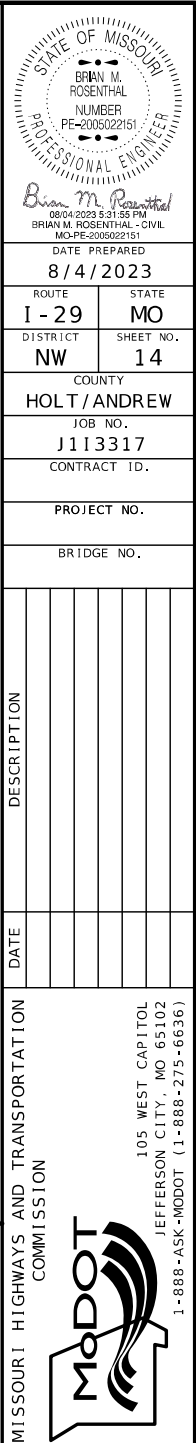


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



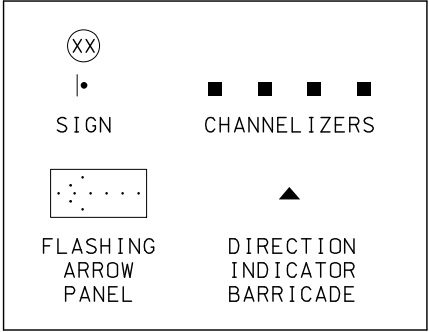
TRAFFIC CONTROL  
SHEET 1 OF 7



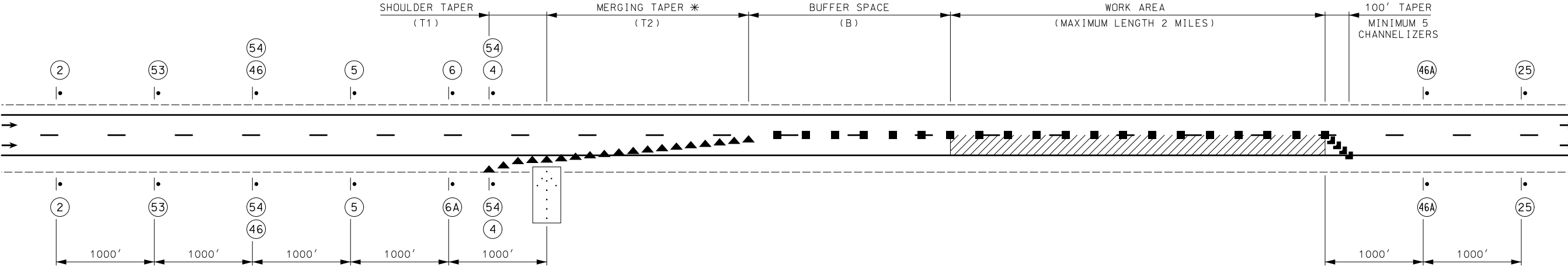
**IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.**

REV.

KEY TO SYMBOLS



| NORMAL<br>SPEED<br>LIMIT | SHOULDER<br>TAPER<br>(T1) | LANE<br>TAPER<br>(T2) | BUFFER<br>SPACE<br>(B) | CHANNELIZER SPACING |                             |
|--------------------------|---------------------------|-----------------------|------------------------|---------------------|-----------------------------|
|                          |                           |                       |                        | TAPERS              | BUFFER SPACE<br>& WORK AREA |
| 65-70 MPH                | 235'                      | 840'                  | 840'                   | 60'                 | 120'                        |



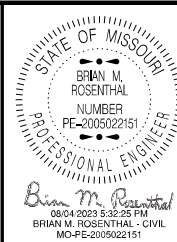
RIGHT LANE CLOSURE SHOWN. PLAN SHALL ALSO BE USED WITH A LEFT LANE CLOSURE. IN THIS CASE THE LEFT LANE CLOSED AHEAD, LEFT LANE CLOSED, AND THE CORRESPONDING MERGE SIGNS SHALL BE SUBSTITUTED.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF SIGNS, FLASHING ARROW PANELS, CHANNELIZERS OR OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET.

NOT TO SCALE

LANE CLOSURE

TRAFFIC CONTROL  
SHEET 2 OF 7



DATE PREPARED 8/4/2023  
ROUTE 1-29 STATE MO  
DISTRICT NW SHEET NO. 15  
COUNTY HOLT / ANDREW  
JOB NO. J113317  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

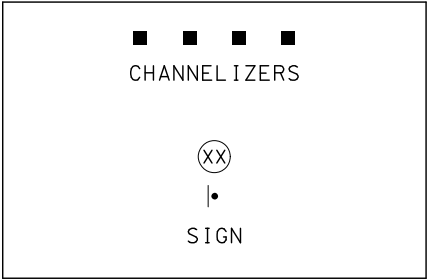
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

KEY TO SYMBOLS



| NORMAL<br>SPEED<br>LIMIT | SHOULDER<br>TAPER<br>(T1) | BUFFER<br>SPACE<br>(B) | CHANNELIZER SPACING |                             |
|--------------------------|---------------------------|------------------------|---------------------|-----------------------------|
|                          |                           |                        | TAPERS              | BUFFER SPACE<br>& WORK AREA |
| 65-70 MPH                | 235'                      | 840'                   | 60'                 | 120'                        |



WO20-1  
2



R2-1  
4



WO21-5  
21



R2-1  
25



WO5-1  
43



WO7-3a  
44A



R4-1  
46



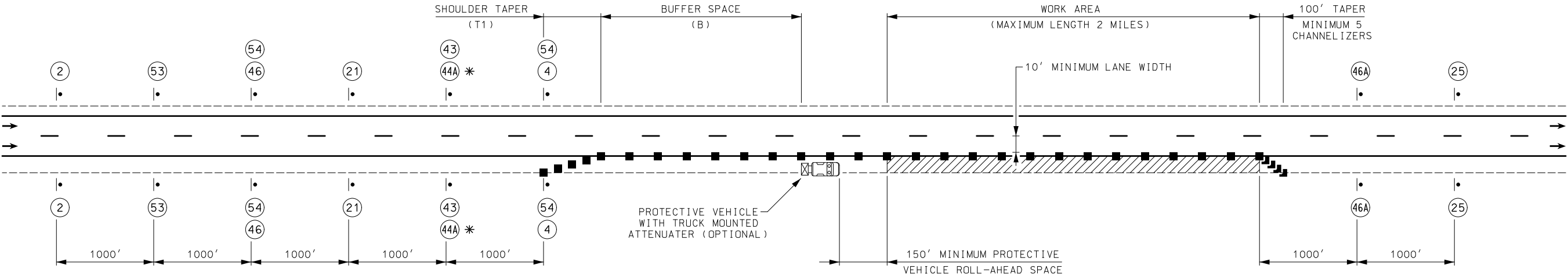
R4-2  
46A



CONST-3A  
53



GO20-5dP  
54



RIGHT SHOULDER CLOSURE SHOWN. PLAN SHALL ALSO BE USED WITH A LEFT SHOULDER CLOSURE.

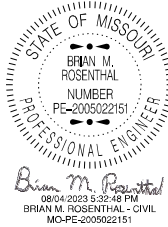
\*SIGN #44A IS NOT REQUIRED FOR NARROW LANE SECTIONS OF LESS THAN ONE MILE.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF SIGNS, FLASHING ARROW PANELS, CHANNELIZERS OR OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET.

SHOULDER WORK WITH MINOR ENCROACHMENT

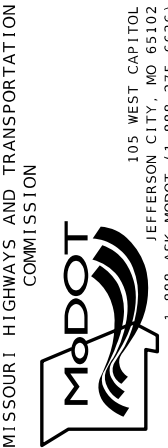
NOT TO SCALE

TRAFFIC CONTROL  
SHEET 3 OF 7

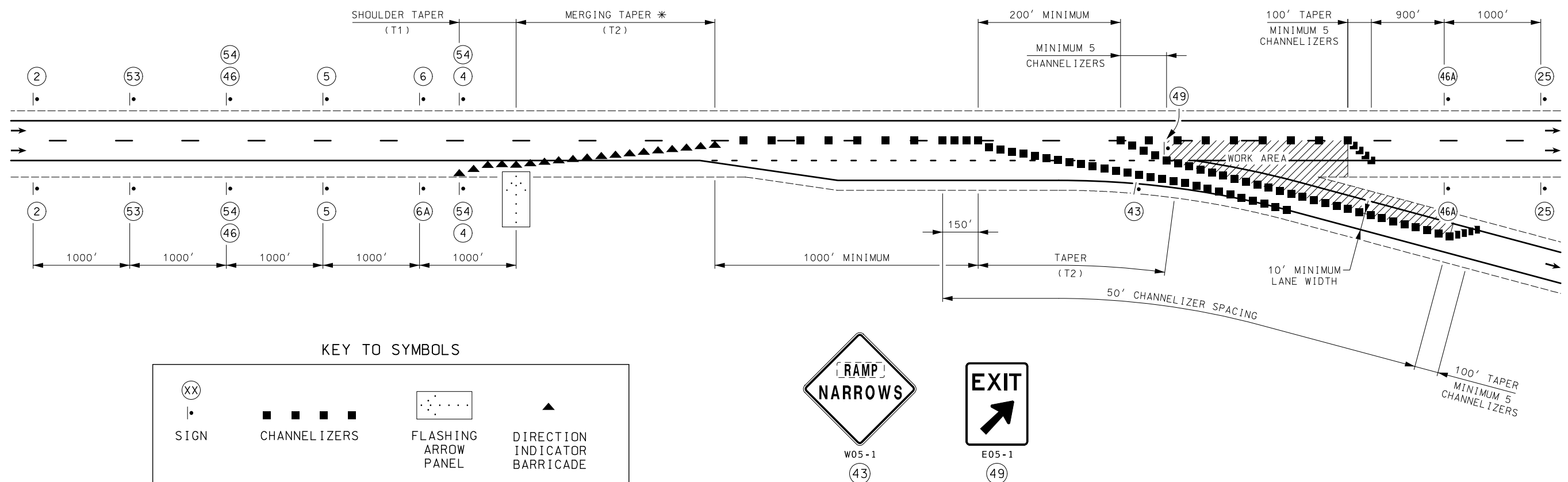
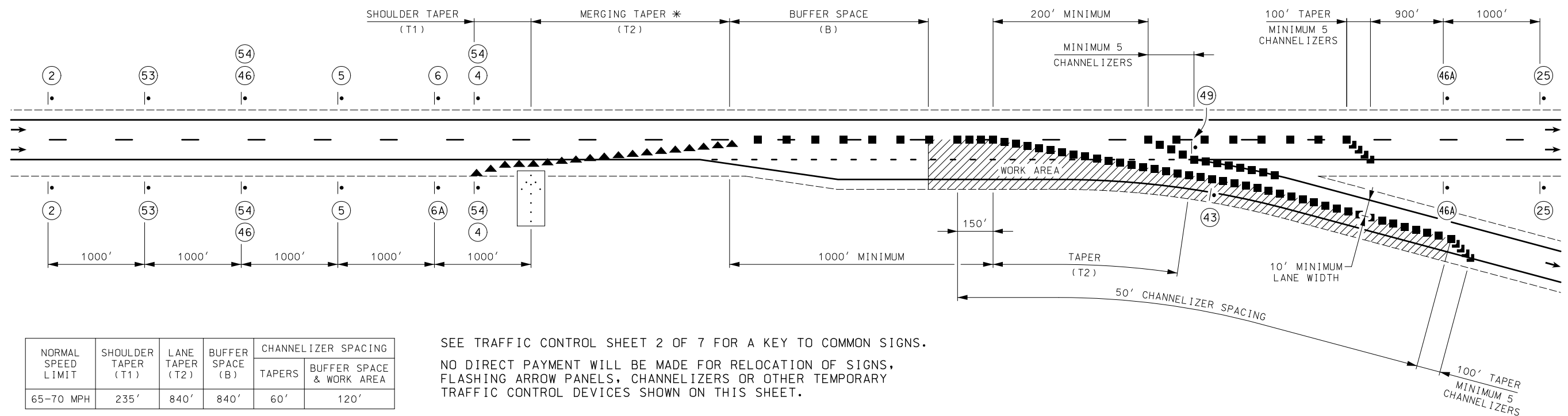


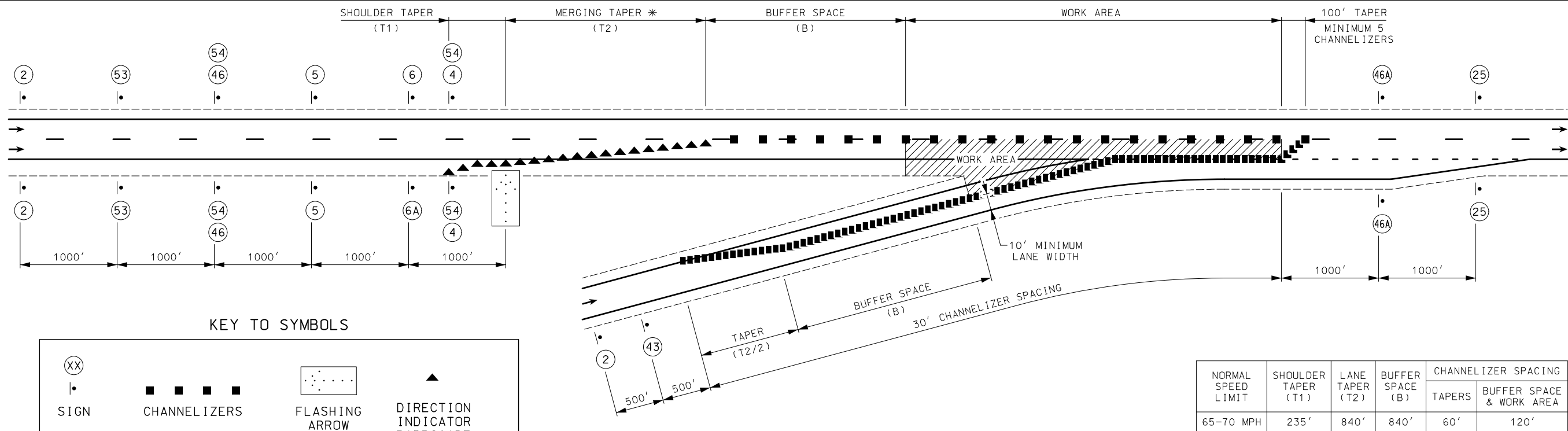
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|---------------------------|-----------------|
| DATE PREPARED<br>8/4/2023 |                 |
| ROUTE<br>I-29             | STATE<br>MO     |
| DISTRICT<br>NW            | SHEET NO.<br>16 |
| COUNTY<br>HOLT / ANDREW   |                 |
| JOB NO.<br>J113317        |                 |
| CONTRACT ID.              |                 |
| PROJECT NO.               |                 |
| BRIDGE NO.                |                 |

| DESCRIPTION | DATE |
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.





KEY TO SYMBOLS

(XX)  
|

SIGN

■ ■ ■ ■

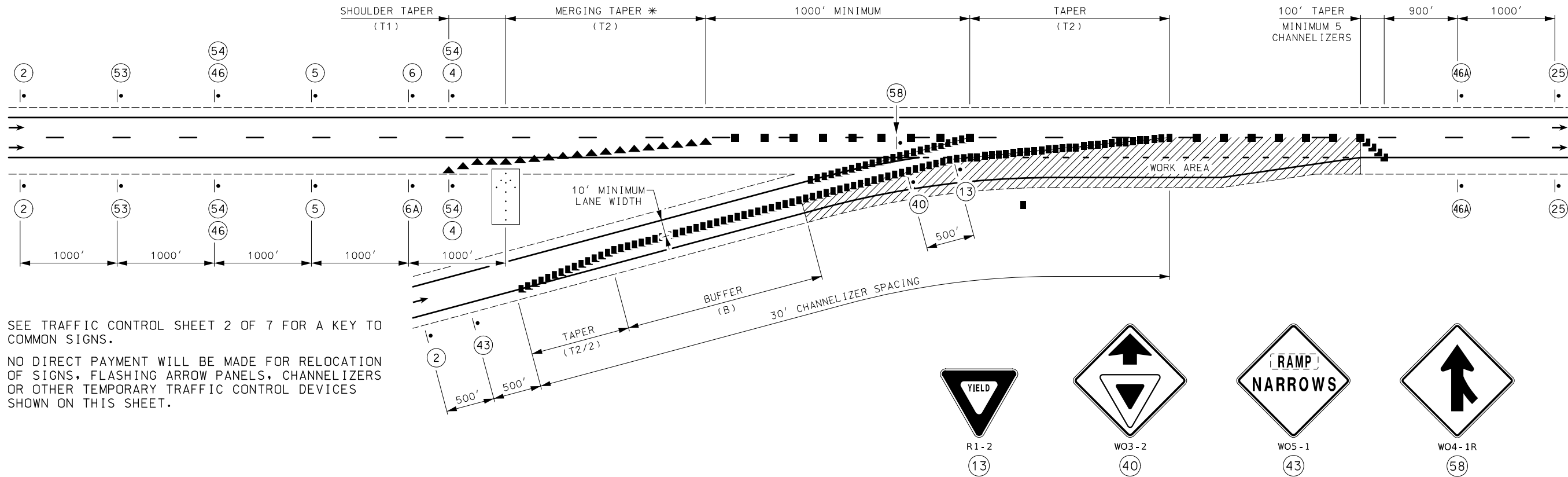
CHANNELIZERS

⋯

FLASHING  
ARROW  
PANEL

▲

DIRECTION  
INDICATOR  
BARRICADE



SEE TRAFFIC CONTROL SHEET 2 OF 7 FOR A KEY TO COMMON SIGNS.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF SIGNS, FLASHING ARROW PANELS, CHANNELIZERS OR OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET.

R1-2  
13

W03-2  
40

W05-1  
43

W04-1R  
58

NOT TO SCALE

WORK IN THE VICINITY OF AN ENTRANCE RAMP

TRAFFIC CONTROL  
SHEET 5 OF 7

STATE OF MISSOURI  
BRIAN M. ROSENTHAL  
NUMBER  
PE-2005022151  
PROFESSIONAL ENGINEER  
08/04/2023 5:33:36 PM  
BRIAN M. ROSENTHAL - CIVIL  
MO-PE-2005022151

DATE PREPARED  
8/4/2023

ROUTE  
1-29

STATE  
MO

DISTRICT  
NW

SHEET NO.  
18

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

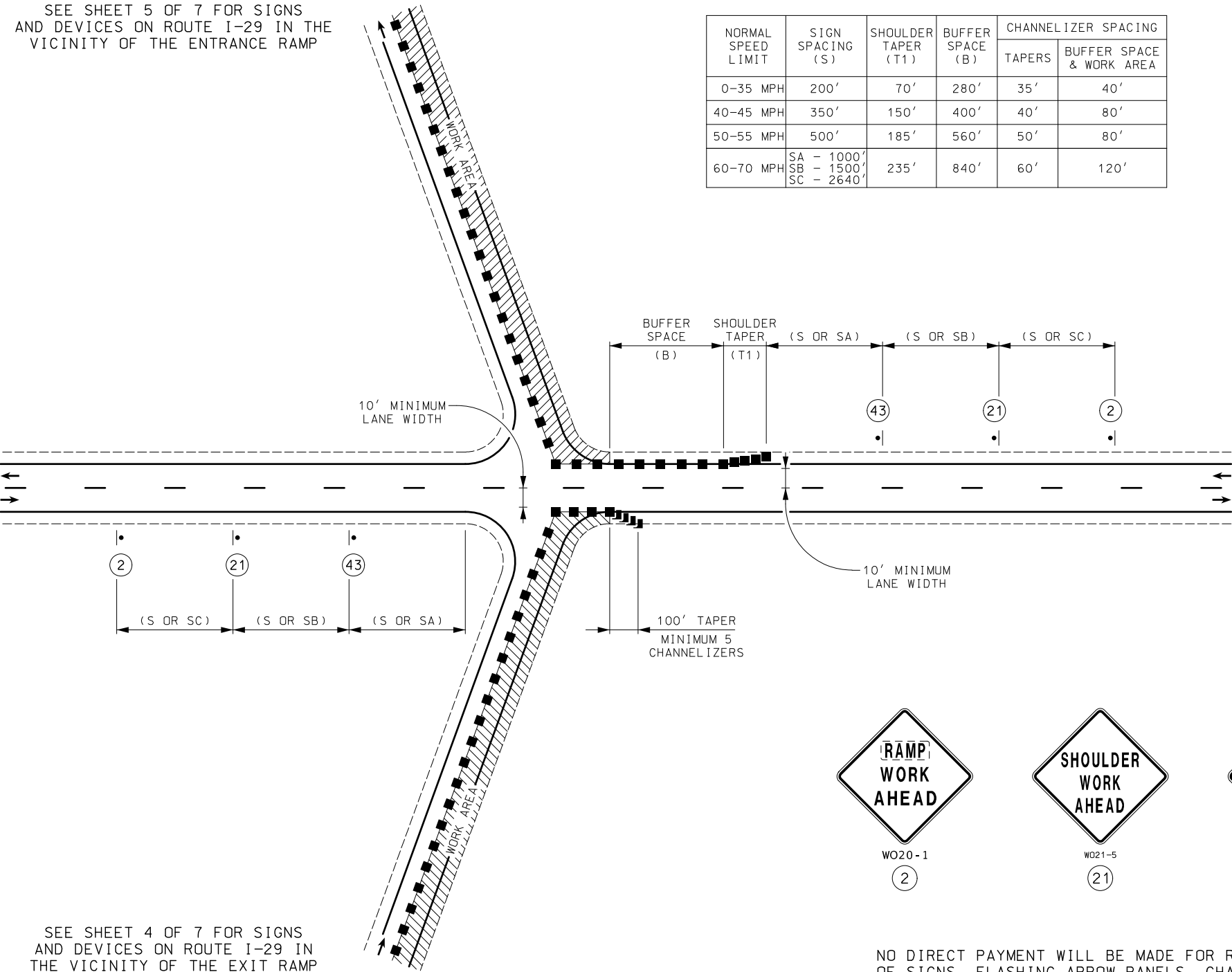
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

SEE SHEET 5 OF 7 FOR SIGNS  
AND DEVICES ON ROUTE I-29 IN THE  
VICINITY OF THE ENTRANCE RAMP



SEE SHEET 4 OF 7 FOR SIGNS  
AND DEVICES ON ROUTE I-29 IN  
THE VICINITY OF THE EXIT RAMP

| NORMAL<br>SPEED<br>LIMIT | SIGN<br>SPACING<br>(S)                 | SHOULDER<br>TAPER<br>(T1) | BUFFER<br>SPACE<br>(B) | CHANNELIZER SPACING |                             |
|--------------------------|----------------------------------------|---------------------------|------------------------|---------------------|-----------------------------|
|                          |                                        |                           |                        | TAPERS              | BUFFER SPACE<br>& WORK AREA |
| 0-35 MPH                 | 200'                                   | 70'                       | 280'                   | 35'                 | 40'                         |
| 40-45 MPH                | 350'                                   | 150'                      | 400'                   | 40'                 | 80'                         |
| 50-55 MPH                | 500'                                   | 185'                      | 560'                   | 50'                 | 80'                         |
| 60-70 MPH                | SA - 1000'<br>SB - 1500'<br>SC - 2640' | 235'                      | 840'                   | 60'                 | 120'                        |

KEY TO SYMBOLS

(XX)

|•

SIGN

■ ■ ■ ■

CHANNELIZERS

RAMP  
WORK  
AHEAD

WO20-1

2

SHOULDER  
WORK  
AHEAD

WO21-5

21

ROAD  
NARROWS

WO5-1

43

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION  
OF SIGNS, FLASHING ARROW PANELS, CHANNELIZERS  
OR OTHER TEMPORARY TRAFFIC CONTROL DEVICES  
SHOWN ON THIS SHEET.

NOT TO SCALE

WORK ON RAMPS

TRAFFIC CONTROL  
SHEET 6 OF 7

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER  
PE-2005022151

PROFESSIONAL ENGINEER

*Brian M. Rosenthal*

08/04/2023 5:33:55 PM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED  
8/4/2023

ROUTE  
I-29

STATE  
MO

DISTRICT  
NW

SHEET NO.  
19

COUNTY  
HOLT / ANDREW

JOB NO.  
J113317

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL

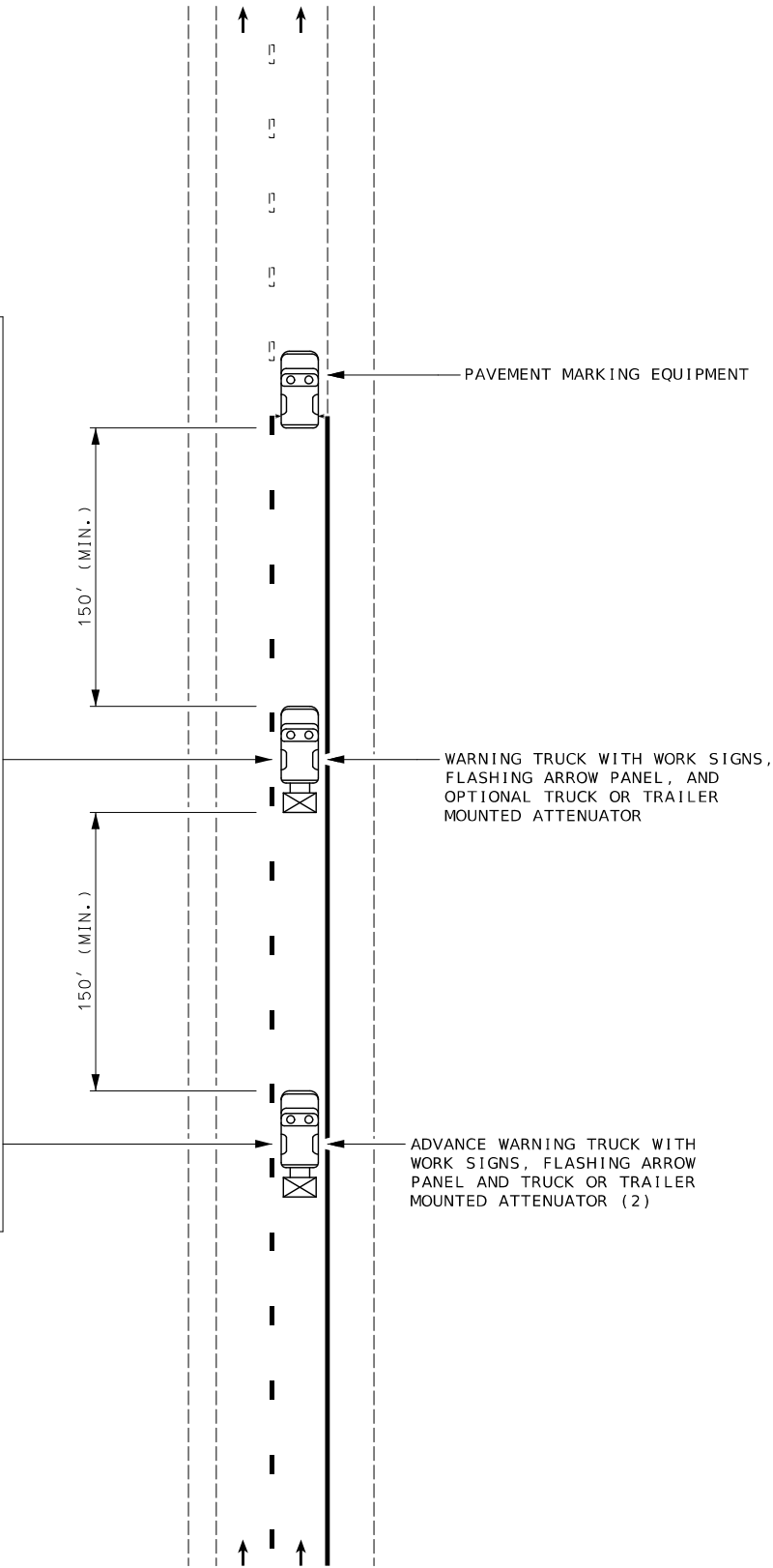
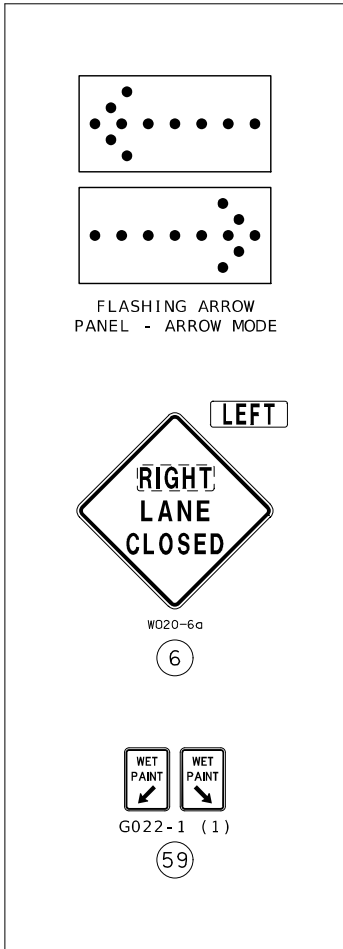
JEFFERSON CITY, MO 65102

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

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.



NOTES:

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

PROTECTIVE TRUCK 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.

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

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.

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

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE TO WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT

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

MOVING OPERATION – PAVEMENT MARKING

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 7 OF 7

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER

*Brian M. Rosenthal*

08/04/2023 5:34:24 PM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED

8/4/2023

ROUTE

1-29

STATE

MO

DISTRICT

NW

SHEET NO.

20

COUNTY

HOLT / ANDREW

JOB NO.

J113317

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
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