

DESIGN DESIGNATION

SEE FOLLOWING TITLE LOCATION SHEETS

TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

LOCATION 3 - NEW BLOOMFIELD, ROUTE J

NO ACQUISITIONS REQUIRED

LOCATION 1A - COLUMBIA, ROUTE WW
 LOCATION 1B - COLUMBIA, ROUTE TT
 LOCATION 1D - COLUMBIA, ROUTE E
 LOCATION 1C - COLUMBIA, ROUTE 163
 LOCATION 1E - COLUMBIA, ROUTE 763
 LOCATION 1F - COLUMBIA, ROUTE B

LOCATION 2 - STURGEON, ROUTE V

LOCATION 4 - LINN, ROUTE 50

LOCATION 5 - NEWBURG, ROUTE T

CONVENTIONAL SYMBOLS

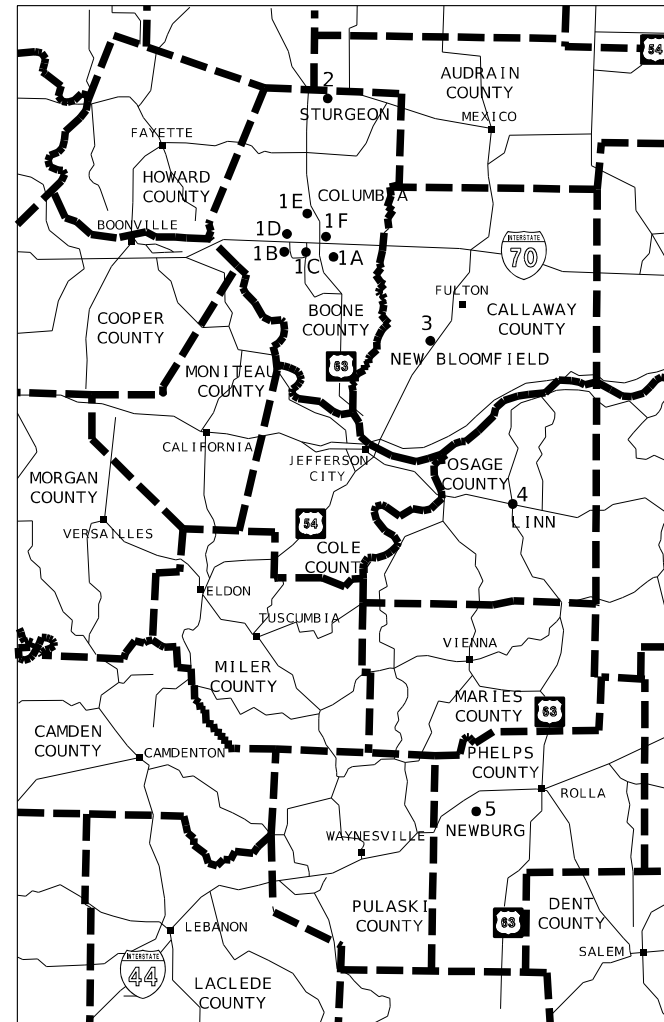
| | EXISTING | NEW |
|------------------------------|------------|----------|
| BUILDINGS AND STRUCTURES | [Symbol] | [Symbol] |
| GUARD RAIL | [Symbol] | [Symbol] |
| GUARD CABLE | [Symbol] | [Symbol] |
| CONCRETE RIGHT-OF-WAY MARKER | [Symbol] | [Symbol] |
| STEEL RIGHT-OF-WAY MARKER | [Symbol] | [Symbol] |
| LOCATION SURVEY MARKER | [Symbol] | [Symbol] |
| UTILITIES | | |
| FIBER OPTICS | -FO- | -FO- |
| OVERHEAD CABLE TV | -OTV- | -OTV- |
| UNDERGROUND CABLE TV | -UTV- | -UTV- |
| OVERHEAD TELEPHONE | -OT- | -OT- |
| UNDERGROUND TELEPHONE | -UT- | -UT- |
| OVERHEAD POWER | -OE- | -OE- |
| UNDERGROUND POWER | -UE- | -UE- |
| SANITARY SEWER | -S- | -S- |
| STORM SEWER | -SS- | -SS- |
| GAS | -G- | -G- |
| WATER | -W- | -W- |
| MANHOLE | [Symbol] | [Symbol] |
| FIRE HYDRANT | [Symbol] | [Symbol] |
| WATER VALVE | [Symbol] | [Symbol] |
| WATER METER | [Symbol] | [Symbol] |
| DROP INLET | [Symbol] | [Symbol] |
| DITCH BLOCK | [Symbol] | [Symbol] |
| GROUND MOUNTED SIGN | [Symbol] | [Symbol] |
| LIGHT POLE | [Symbol] | [Symbol] |
| H-FRAME POWER POLE | [Symbol] | [Symbol] |
| TELEPHONE PEDESTAL | [Symbol] | [Symbol] |
| FENCE | | |
| CHAIN LINK | [Symbol] | [Symbol] |
| WOVEN WIRE | [Symbol] | [Symbol] |
| GATE POST | [Symbol] | [Symbol] |
| BENCHMARK | [Symbol] | [Symbol] |
| REMOVE | (R) | |
| REMOVE AND REPLACE | (R&R) | |
| REMOVE AND RELOCATE | (R&RELOC.) | |
| USE IN PLACE | (UIP) | |
| ADJUST TO GRADE | (ATG) | |
| DO NOT DISTURB | (DND) | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

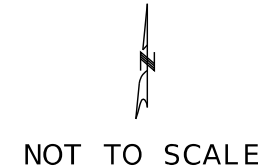
BOONE, CALLAWAY, OSAGE, & PHELPS COUNTIES

ADA IMPROVEMENTS SIDEWALKS, CURB RAMPS, PAVED APPROACHES & AUDIBLE PEDESTRIAN SIGNALS AT VARIOUS LOCATIONS



LOCATIONS

- 1A- BOONE-COLUMBIA, ROUTE WW- FROM BRICKTOWN TO S ROLLING HILLS RD
- 1B- BOONE-COLUMBIA, ROUTE TT- FROM PARK DE VILLE DR TO ROUTE 740
- 1C- BOONE-COLUMBIA, ROUTE 163- FROM E BROADWAY TO ROGERS ST
- 1D- BOONE-COLUMBIA, ROUTE E- AT PRIMROSE DRIVE
- 1E- BOONE-COLUMBIA, ROUTE 763- AT ROUTE VV
- 1F- BOONE-COLUMBIA, ROUTE B- AT VANDIVER
- 2- BOONE-STURGEON, ROUTE V- AT A WALL STREET & W STONE STREET/N OGDEN STREET
- 3- CALLAWAY-NEW BLOOMFIELD, ROUTE J AT WILLOW DR
- 4- OSAGE-LINN, ROUTE 50, FROM 11TH ST TO N LINDWOOD DR
- 5- PHELPS-NEWBURG, ROUTE T- FROM WEST 1ST TO WEST 5TH ST



INDEX OF SHEETS

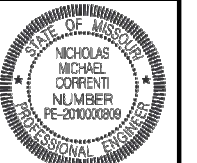
| DESCRIPTION | SHEET NUMBER |
|-----------------------------------|--------------|
| TITLE SHEET (T1) (3 SHEETS)----- | 1 |
| TYPICAL SECTIONS (TS) (9 SHEETS)- | 2 |
| QUANTITIES (QU) (6 SHEETS)----- | 3 |
| PLAN SHEETS (PL) ----- | 4-28 |
| RIGHT OF WAY SHEETS (RW)----- | 29 |
| REF/COORD SHEETS (CP) ----- | 30-35 |
| SPECIAL SHEETS (SS) ----- | 36 |
| TRAFFIC CONTROL (TC) ----- | 37-47 |
| EROSION CONTROL (EC) ----- | 48 |
| SIGNAL SHEETS (SG) ----- | 49-84 |
| SIGNING SHEETS (SN) ----- | 85-87 |

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LENGTH OF PROJECT

| BEGINNING OF PROJECT | |
|-----------------------|----------------|
| LACATION 1A | 5,160.00 FT |
| LOCATION 1B | 6,500.00 FT |
| LACATION 1C | 2,118.00 FT |
| LOCATION 1D | 100.00 FT |
| LACATION 1E | 500.00 FT |
| LOCATION 1F | 35.00 FT |
| LOCATION 2 | 970.00 FT |
| LOCATION 3 | 50.00 FT |
| LOCATION 4 | 2,100.00 FT |
| LOCATION 5 | 1,100.00 FT |
| END OF PROJECT | |
| TOTAL CORRECTIONS | 0.00 FEET |
| NET LENGTH OF PROJECT | 18,633.00 FEET |
| STATE LENGTH | 3.529 MILES |

TITLE SHEET
 SHEET 1 OF 3



DATE PREPARED
 2/3/2025

ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 1A

COUNTY
 VARIOUS

JOB NO.
 JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

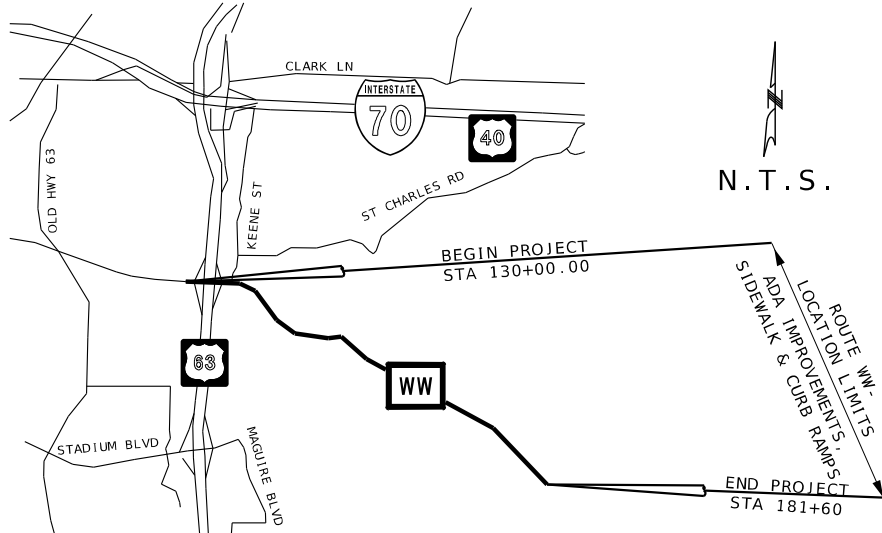
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

BOONE COUNTY-COLUMBIA
A.A.D.T. - 2025 = 27790
A.A.D.T. - 2045 = 33910
V = 45 M.P.H.

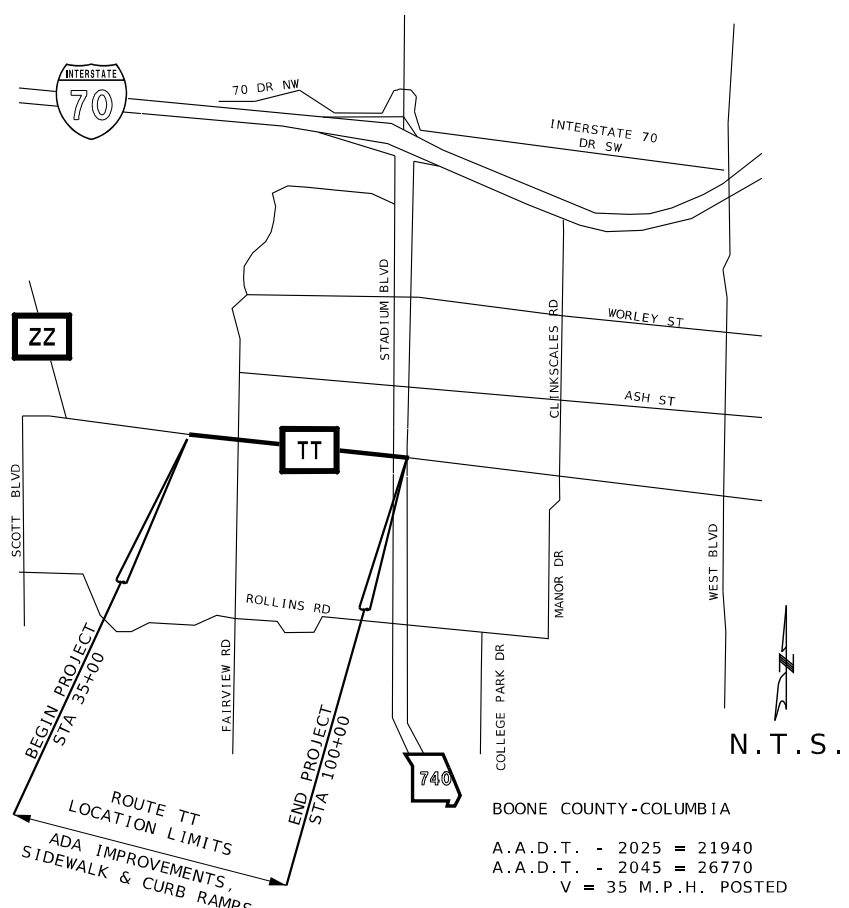
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL
T48N, R12W, SEC 15, 16, 17, 22



LOCATION 1A:
ROUTE WW
FROM BRICKTOWN RD TO S ROLLONG HILLS RD

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N.T.S.

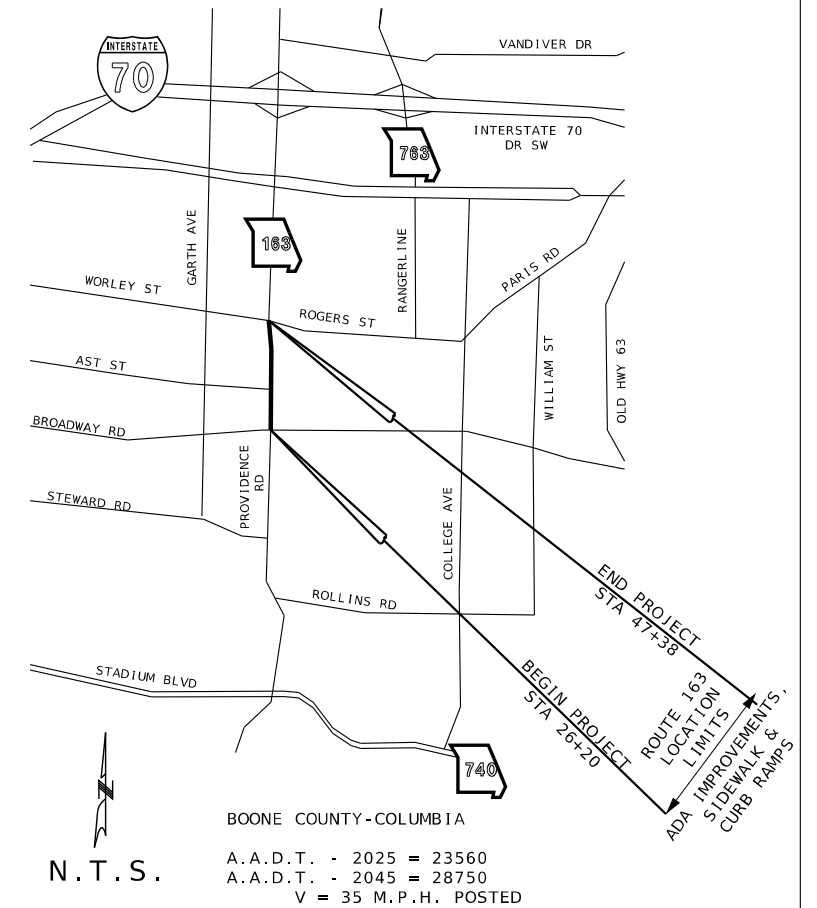


LOCATION 1B:
ROUTE TT
FROM PARK DE VILLE DR TO ROUTE 740

BOONE COUNTY-COLUMBIA
A.A.D.T. - 2025 = 21940
A.A.D.T. - 2045 = 26770
V = 35 M.P.H. POSTED

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL
T48N, R13W, SEC 9, 10, 15, 16

N.T.S.

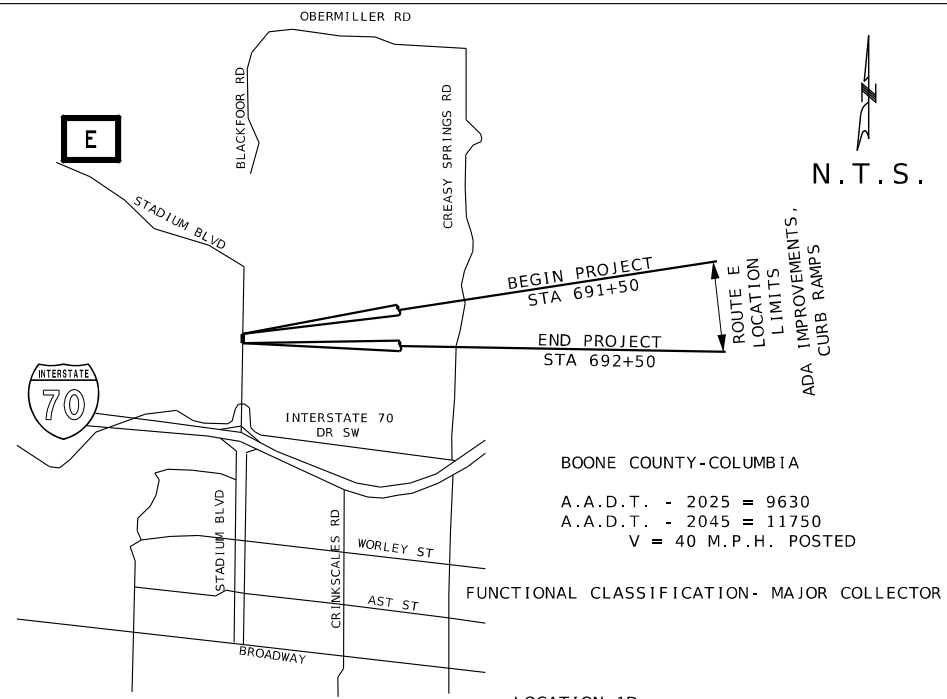


LOCATION 1C:
ROUTE 163
FROM E BROADWAY TO ROGERS ST

BOONE COUNTY-COLUMBIA
A.A.D.T. - 2025 = 23560
A.A.D.T. - 2045 = 28750
V = 35 M.P.H. POSTED

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL
T48N, R12W, SEC 7
T48N, R13W, SEC 13

N.T.S.

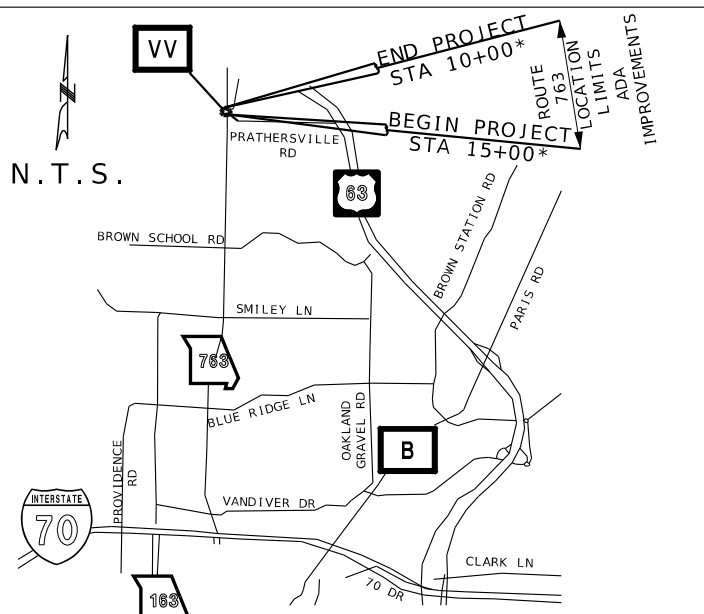


BOONE COUNTY-COLUMBIA
A.A.D.T. - 2025 = 9630
A.A.D.T. - 2045 = 11750
V = 40 M.P.H. POSTED

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR
T48N, R13W, SEC 3

LOCATION 1D:
ROUTE E
AT PRIMROSE DRIVE

N.T.S.



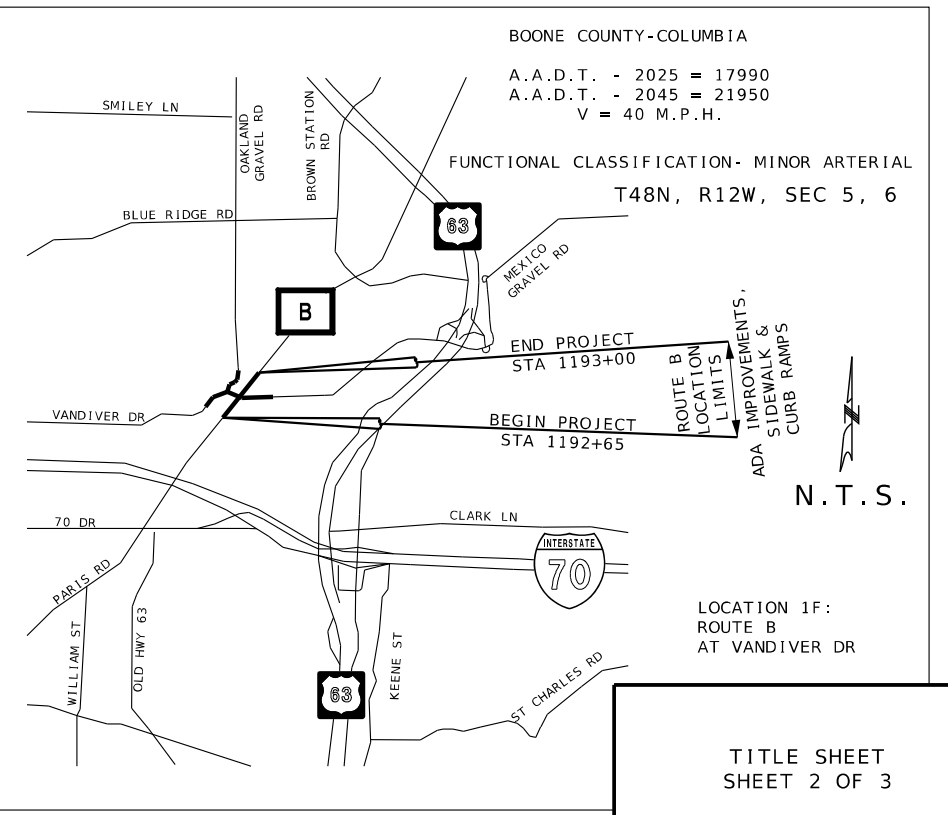
BOONE COUNTY-COLUMBIA
A.A.D.T. - 2025 = 10750
A.A.D.T. - 2045 = 13120
V = 45 M.P.H.

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL
T49N, R12W, SEC 19
T49N, R13W, SEC 24

*CONSTRUCTION STATIONING FOR THIS PROJECT ONLY.

LOCATION 1E:
ROUTE 763
AT ROUTE VV

N.T.S.



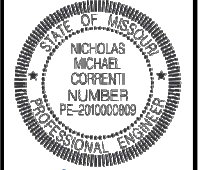
BOONE COUNTY-COLUMBIA
A.A.D.T. - 2025 = 17990
A.A.D.T. - 2045 = 21950
V = 40 M.P.H.

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL
T48N, R12W, SEC 5, 6

LOCATION 1F:
ROUTE B
AT VANDIVER DR

N.T.S.

TITLE SHEET
SHEET 2 OF 3



DATE PREPARED
2/3/2025

ROUTE
VARIOUS

STATE
MO

DISTRICT
CD

SHEET NO.
1B

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

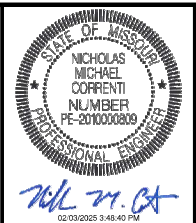
BRIDGE NO.

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578




DATE PREPARED
2/3/2025

| | |
|--------------|-----------|
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 1C |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

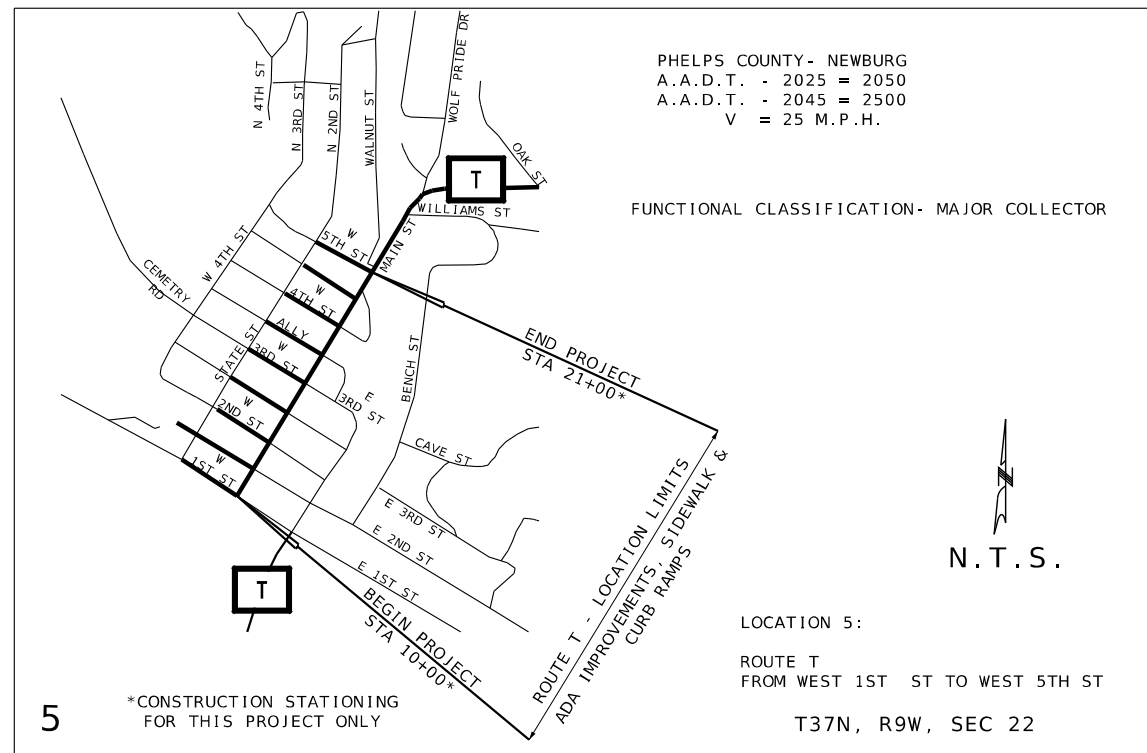
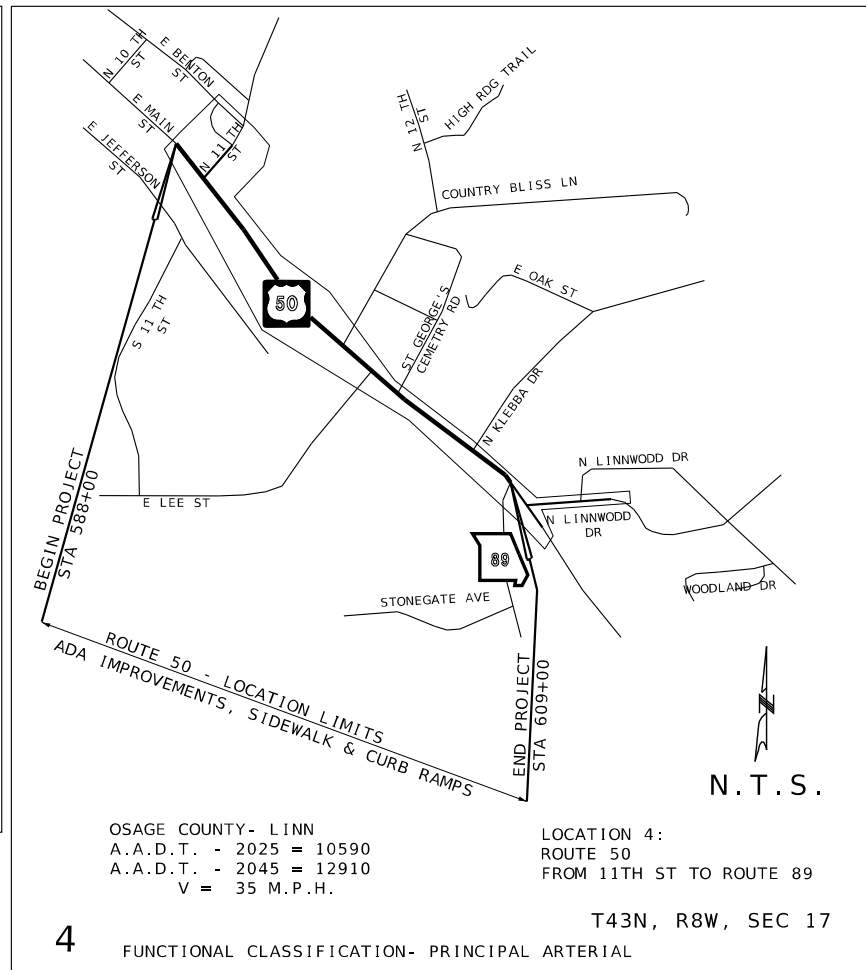
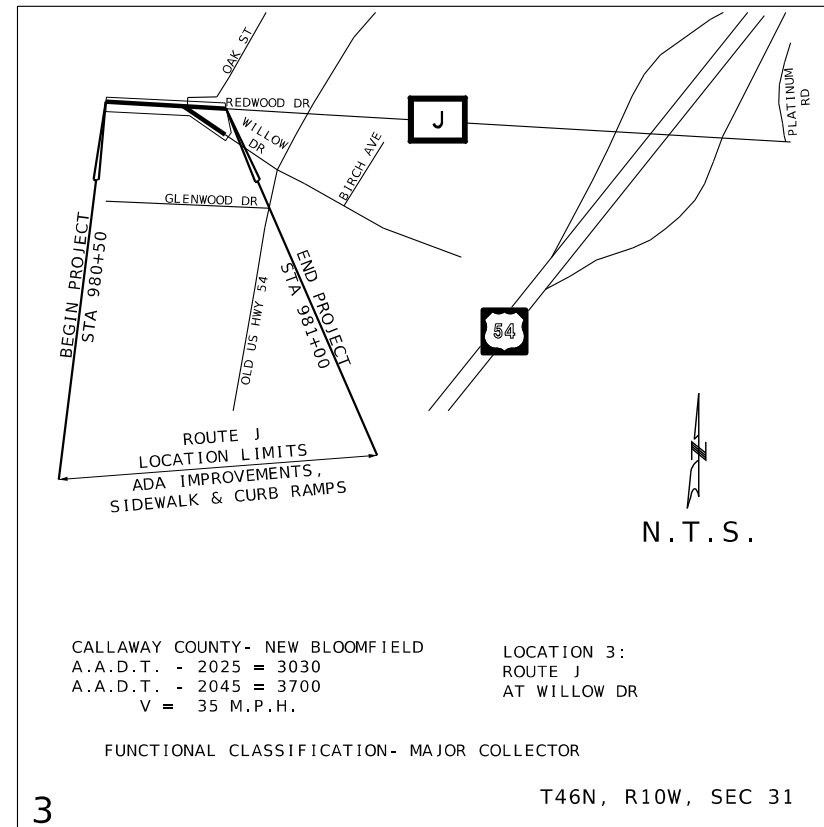
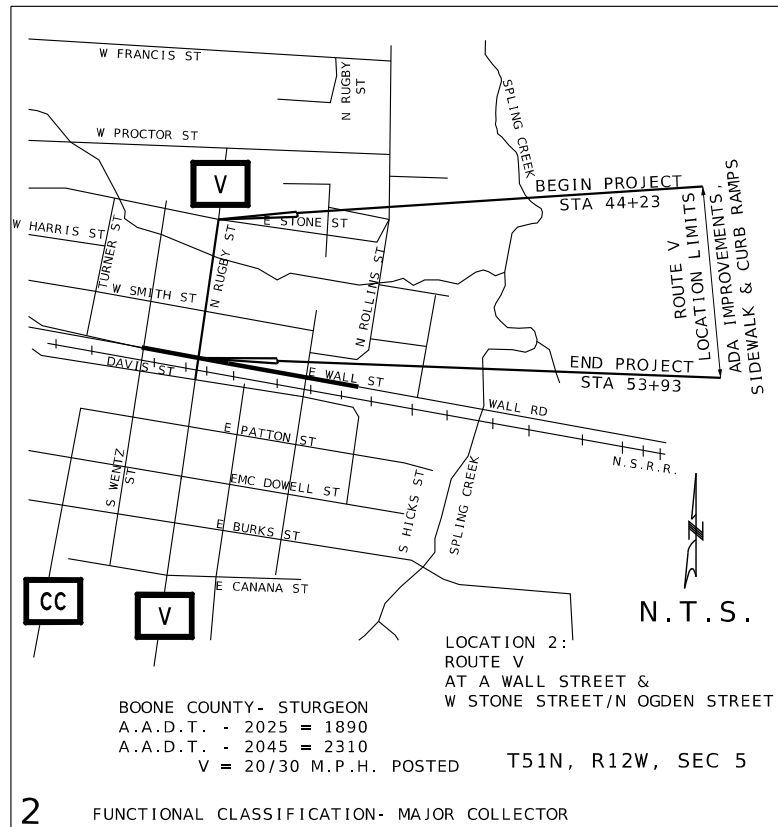
| DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



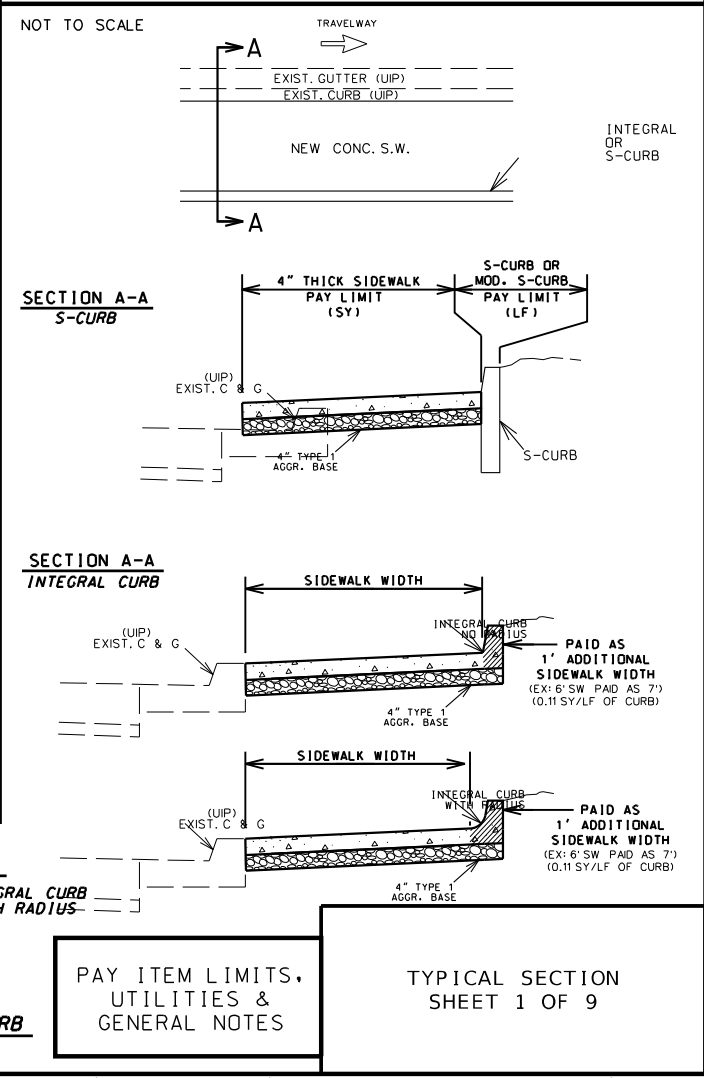
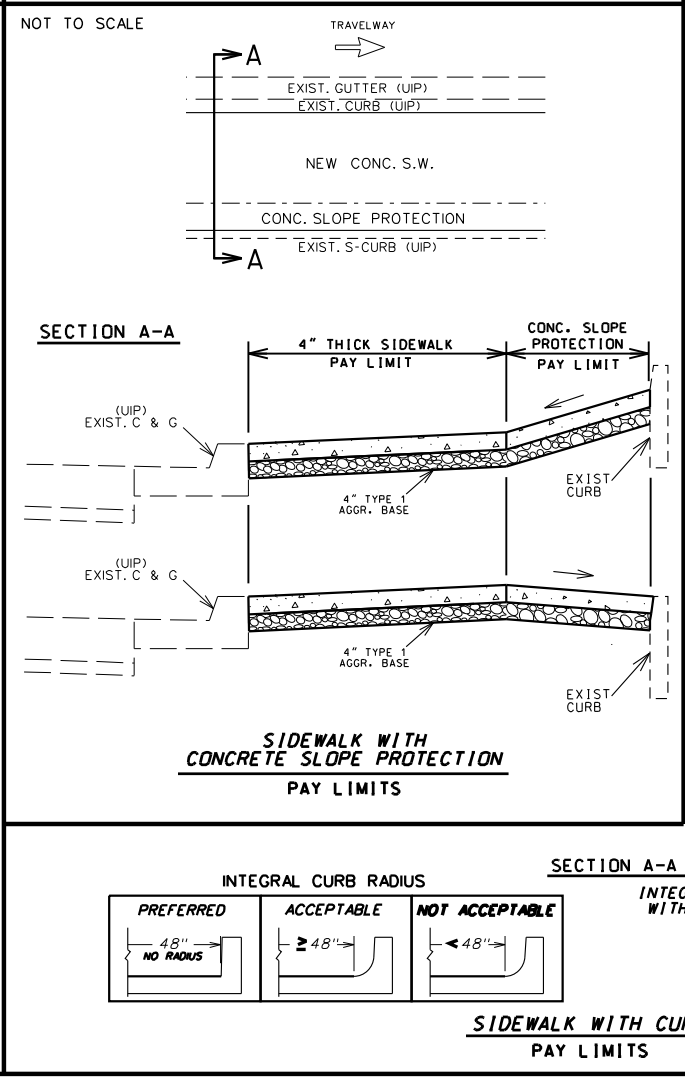
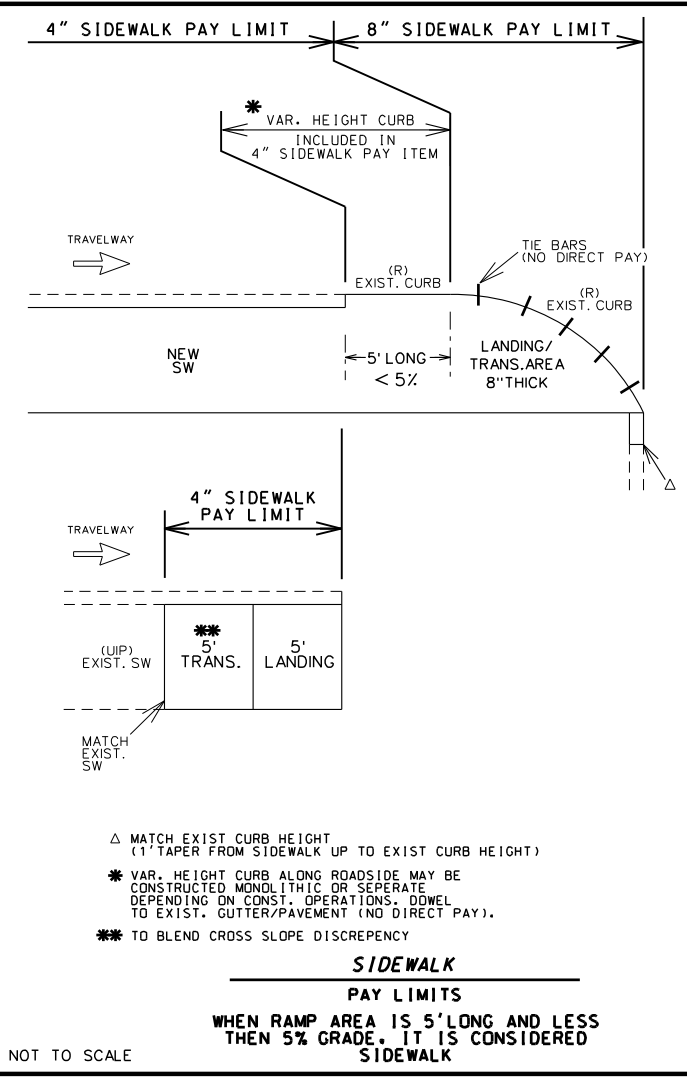
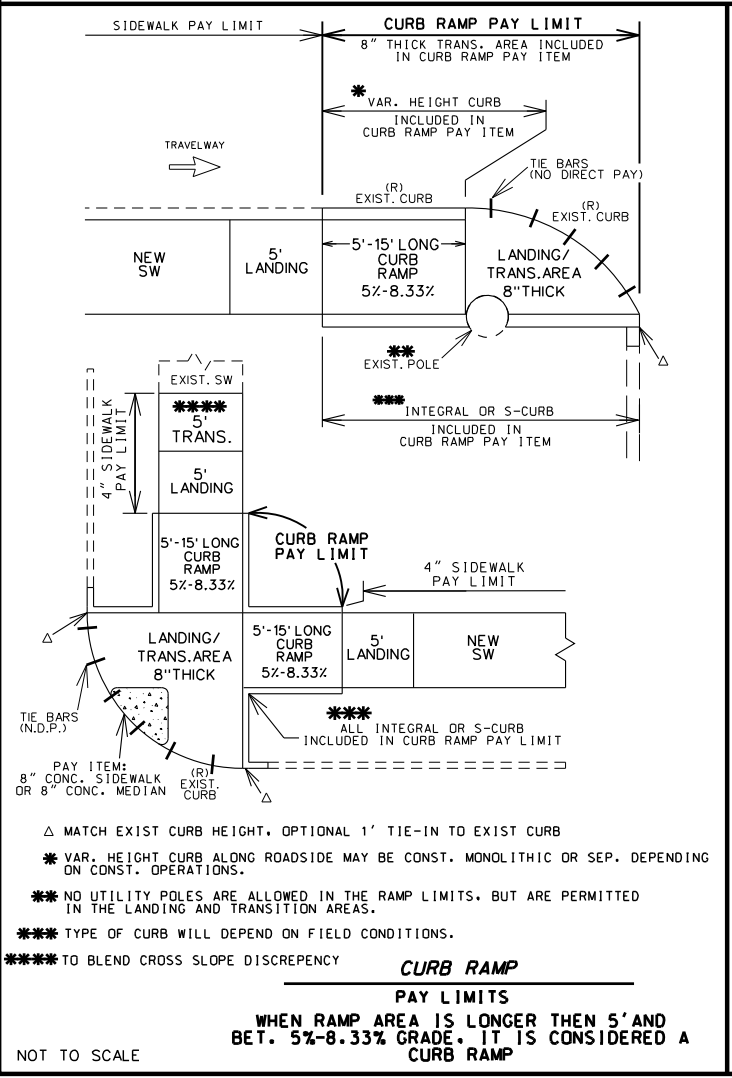
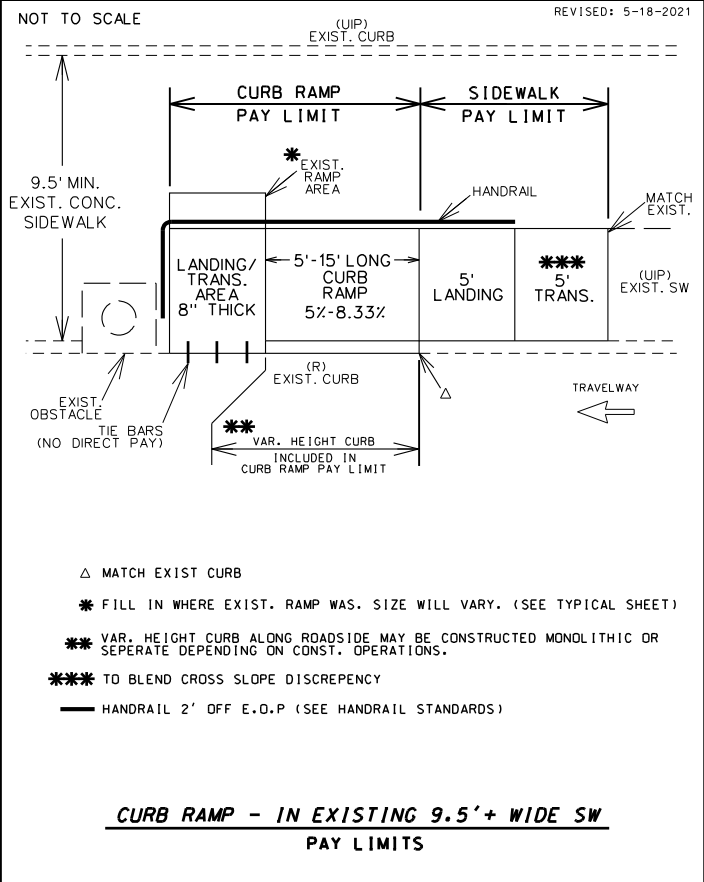
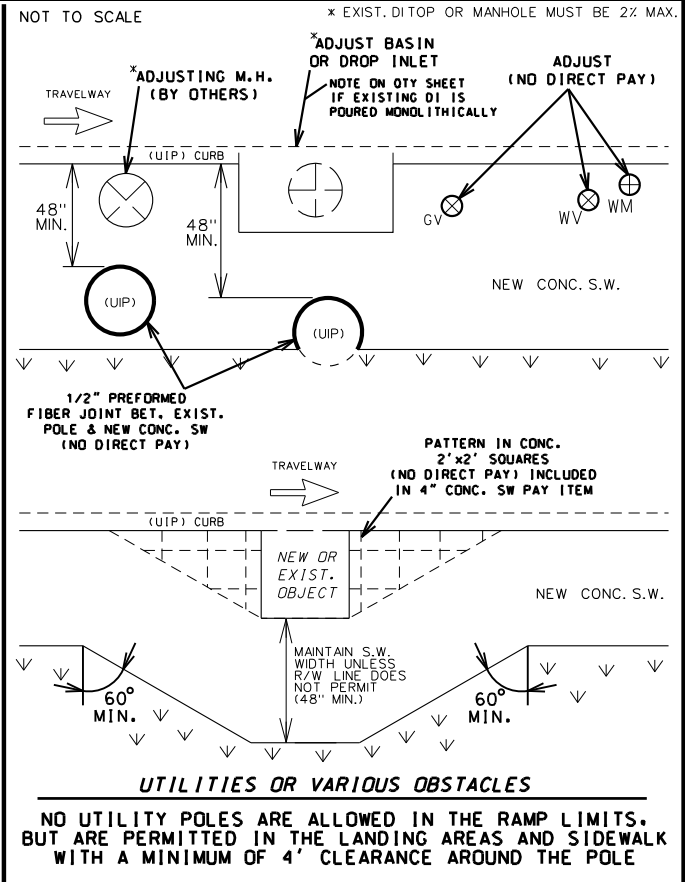
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TITLE SHEET
SHEET 3 OF 3

- CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING DEVICE (TRUNCATED DOMES) DETAILS SHALL CONFORM TO ADA REQUIREMENTS UNLESS NOTED OTHERWISE IN THESE PLANS. FOR SIDEWALK JOINT AND CURB DETAILS, SEE STANDARD PLAN 609.00.
- TINTED CONCRETE SHALL NOT BE USED. TRUNCATED DOMES SHALL BE OF A COLOR CONTRASTING WITH UNTINTED CONCRETE AND APPROVED BY THE ENGINEER. TRUNCATED DOMES ARE REQ'D. AT STREET INTERSECTIONS AND COMMERCIAL ENTRANCES WITH TRAFFIC CONTROL ONLY. (STOP/YIELD SIGNS OR SIGNALS)
- CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
- ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE 4" THICK, WITH THE EXCEPTION OF THE BOTTOM TRANSITION WHICH TIES INTO THE EXISTING PAVED APPROACH AND ROADWAY. THIS TRANSITION, OR LANDING AREA, MUST BE 8" THICK IF IT FALLS WITHIN THE RADIUS OF THE APPROACH AND SITS AT THE BACK OF CURB OF THE ROADWAY. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE ON 4" TYPE 1 AGGREGATE BASE.
- AGGREGATE BASE DENSITY - CONTRACTOR SHALL EXERCISE GOOD COMPACTIVE EFFORT AS APPROVED BY THE ENGINEER. DENSITY REQUIREMENTS BY NUCLEAR METHOD WILL NOT BE REQUIRED DUE TO WORK AREA CONSTRAINTS.
- CONCRETE CURB RAMP - WIDTH = 5' MIN. LENGTH = 5' MIN. TO 15' PREFERRED MAX. (16' MAX.)
RUNNING SLOPE = >5% (MIN.) TO 8.33% (MAX.) UNIFORMLY DOWN THE LENGTH OF THE RAMP.
CONCRETE LANDING - WIDTH = TO MATCH PROPOSED CURB RAMP AND SIDEWALK WIDTH LENGTH = 5' MIN.
SLOPE IN ALL DIRECTIONS = 1% PREFERRED (2% MAX.) UNLESS TIED TO ROADWAY EXCEPTION.
- ALL EXISTING UTILITIES SHALL BE USED IN PLACE UNLESS OTHERWISE NOTED. ALL MANHOLE OR VALVE COVER, ETC. ELEVATIONS SHALL BE ADJUSTED AS REQUIRED IF THEY ARE LOCATED WITHIN THE IMPROVEMENT AREA.
- "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
- REINFORCING STEEL TIE BARS SHALL BE IN ACCORDANCE WITH SECTION 706. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND USED AS APPROVED BY THE ENGINEER. WHERE TIE BARS ARE USED, THE CONCRETE SHALL BE 8" THICK (NO DIRECT PAY).
- CONSTRUCTION AND LENGTH OF EACH CURB RAMP INCLUDING LANDINGS AND TRANSITION AREAS SHALL BE AS SHOWN ON THE PLANS UNLESS DIFFERING FIELD CONDITIONS ARE FOUND OR AS APPROVED BY THE ENGINEER. CURB RAMP SLOPES SHALL BE 1% PREFERRED (2% MAX.) TOWARD THE STREET. CURB RAMP ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
- SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMP OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
- S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
- SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.



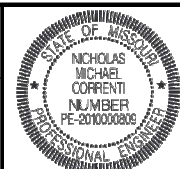
DATE PREPARED: 12/29/2024
ROUTE: VARIOUS
DISTRICT: CD
COUNTY: VARIOUS
JOB NO.: JCD0076
CONTRACT ID:
PROJECT NO.:
BRIDGE NO.:

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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Civil Engineering Design
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Suite 250
St. Louis, MO 63021
Phone: 314-394-3100
Fax: 314-394-3199
Missouri Certificate of Authority: 001578

PERPENDICULAR - TYPE 1

REVISED: 12-03-202



DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 2

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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

EFK Moen
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 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

| TYPE 1-A | LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|-------------|------------|------|------|------------|------|------|------------|------|------|---------|
| | | WIDTH (LF) | | | WIDTH (LF) | | | WIDTH (LF) | | | |
| | | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 12.0 | - | 10.0 | 12.0 | - | 10.0 | 12.0 | |
| CURB RAMP | SY | - | 8.2 | 12.8 | - | 10.8 | 12.7 | - | 13.5 | 15.8 | |
| CONC. SIDEWALK | SY | - | 5.6 | 6.4 | - | 5.6 | 6.4 | - | 4.9 | 6.4 | |
| TYPE 1 AGGREGATE | SY | - | 13.8 | 16.0 | - | 16.4 | 19.1 | - | 18.3 | 22.2 | |
| ADA LINEAR GRADING | LF | - | 22.0 | 22.0 | - | 27.5 | 27.5 | - | 30.0 | 30.5 | |
| SODDING | SY | - | 5.8 | 5.7 | - | 6.8 | 6.9 | - | 7.5 | 7.9 | |

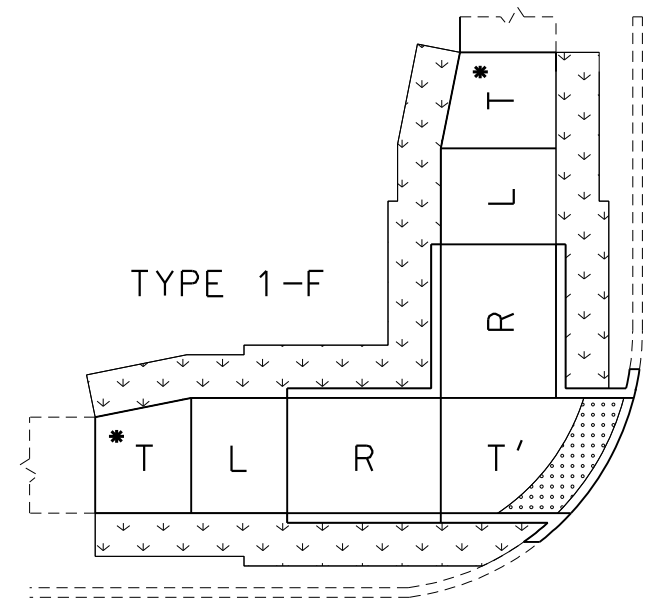
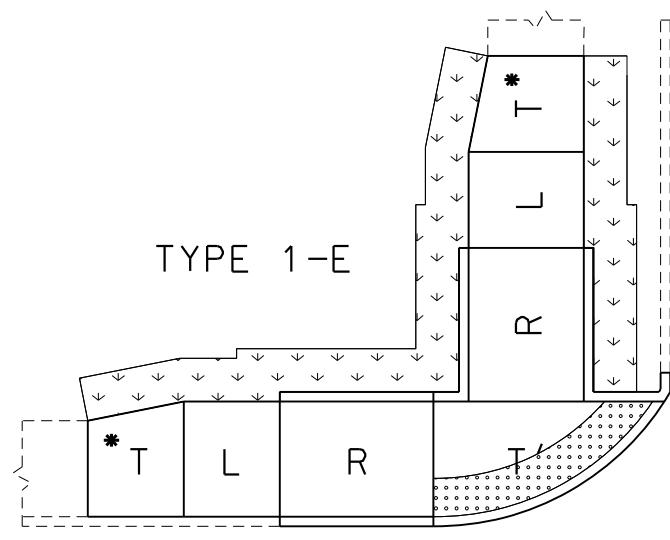
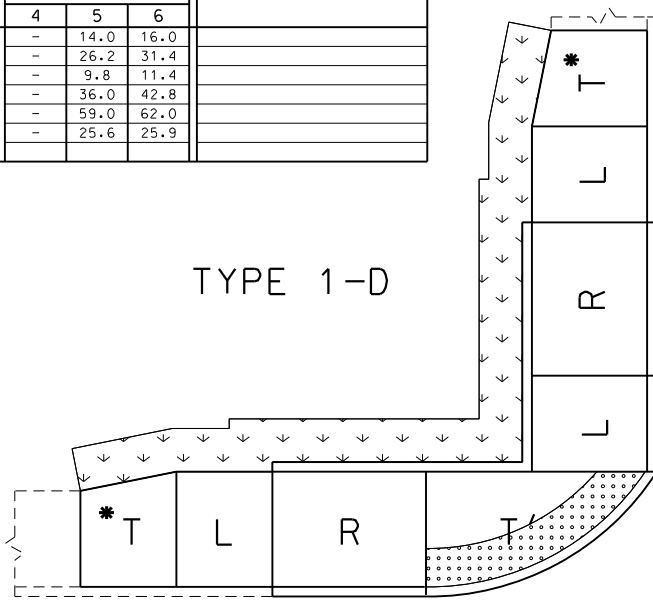
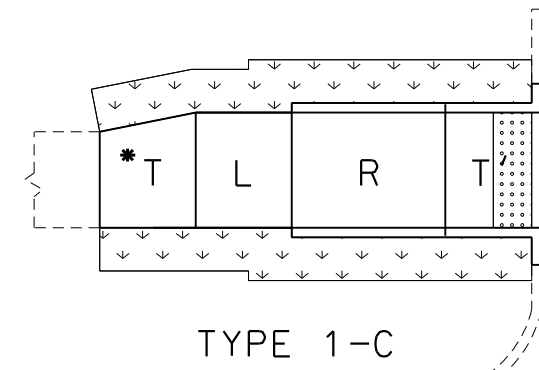
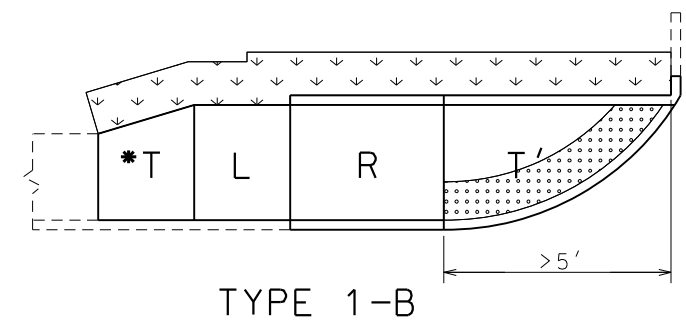
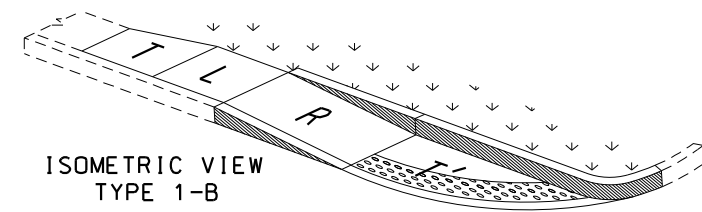
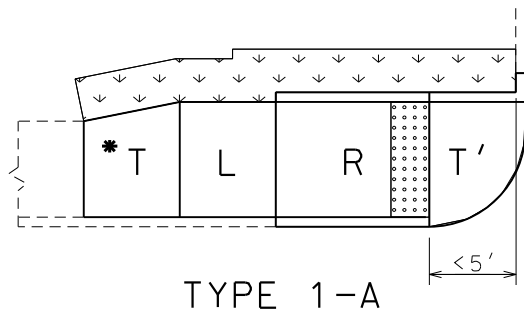
| TYPE 1-B | LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|-------------|------------|------|------|------------|------|------|------------|------|------|---------|
| | | WIDTH (LF) | | | WIDTH (LF) | | | WIDTH (LF) | | | |
| | | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 22.0 | 24.0 | - | 22.0 | 24.0 | - | 22.0 | 24.0 | |
| CURB RAMP | SY | - | 10.9 | 13.1 | - | 13.6 | 16.3 | - | 16.2 | 19.3 | |
| CONC. SIDEWALK | SY | - | 5.6 | 6.3 | - | 5.6 | 6.4 | - | 4.9 | 5.7 | |
| TYPE 1 AGGREGATE | SY | - | 16.5 | 19.4 | - | 19.2 | 22.7 | - | 21.1 | 25.0 | |
| ADA LINEAR GRADING | LF | - | 28.0 | 28.0 | - | 34.5 | 34.5 | - | 38.0 | 38.0 | |
| SODDING | SY | - | 7.4 | 7.8 | - | 8.4 | 8.7 | - | 9.1 | 9.5 | |

| TYPE 1-C | LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|-------------|------------|------|------|------------|------|------|------------|------|------|---------|
| | | WIDTH (LF) | | | WIDTH (LF) | | | WIDTH (LF) | | | |
| | | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 12.0 | - | 10.0 | 12.0 | - | 10.0 | 12.0 | |
| CURB RAMP | SY | - | 8.8 | 10.3 | - | 11.5 | 13.4 | - | 14.1 | 16.5 | |
| CONC. SIDEWALK | SY | - | 5.6 | 6.4 | - | 5.6 | 6.4 | - | 4.9 | 5.7 | |
| TYPE 1 AGGREGATE | SY | - | 14.4 | 16.7 | - | 17.1 | 19.8 | - | 19.0 | 22.1 | |
| ADA LINEAR GRADING | LF | - | 22.0 | 22.0 | - | 26.5 | 26.5 | - | 30.0 | 30.0 | |
| SODDING | SY | - | 11.5 | 11.7 | - | 13.5 | 13.5 | - | 15.0 | 15.2 | |

| TYPE 1-D | LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|-------------|------------|------|------|------------|------|------|------------|------|------|---------|
| | | WIDTH (LF) | | | WIDTH (LF) | | | WIDTH (LF) | | | |
| | | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 18.0 | 24.0 | - | 18.0 | 24.0 | - | 18.0 | 24.0 | |
| CURB RAMP | SY | - | 18.6 | 22.8 | - | 24.0 | 29.0 | - | 29.3 | 35.3 | |
| CONC. SIDEWALK | SY | - | 11.2 | 12.8 | - | 11.2 | 12.8 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE | SY | - | 29.8 | 35.6 | - | 35.2 | 41.8 | - | 39.1 | 46.7 | |
| ADA LINEAR GRADING | LF | - | 42.0 | 50.0 | - | 57.0 | 61.0 | - | 67.0 | 72.0 | |
| SODDING | SY | - | 11.0 | 11.3 | - | 13.0 | 13.3 | - | 14.5 | 14.9 | |

| TYPE 1-E | LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|-------------|------------|------|------|------------|------|------|------------|------|------|---------|
| | | WIDTH (LF) | | | WIDTH (LF) | | | WIDTH (LF) | | | |
| | | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 18.0 | 24.0 | - | 18.0 | 24.0 | - | 18.0 | 24.0 | |
| CURB RAMP | SY | - | 14.8 | 19.0 | - | 20.1 | 25.2 | - | 25.5 | 31.4 | |
| CONC. SIDEWALK | SY | - | 11.2 | 12.8 | - | 11.2 | 12.8 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE | SY | - | 26.0 | 31.8 | - | 31.3 | 38.0 | - | 35.3 | 42.8 | |
| ADA LINEAR GRADING | LF | - | 43.0 | 46.0 | - | 52.0 | 55.0 | - | 59.0 | 62.0 | |
| SODDING | SY | - | 13.3 | 13.6 | - | 16.0 | 16.9 | - | 18.6 | 19.3 | |

| TYPE 1-F | LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|-------------|------------|------|------|------------|------|------|------------|------|------|---------|
| | | WIDTH (LF) | | | WIDTH (LF) | | | WIDTH (LF) | | | |
| | | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 14.0 | 16.0 | - | 14.0 | 16.0 | - | 14.0 | 16.0 | |
| CURB RAMP | SY | - | 15.5 | 19.0 | - | 20.8 | 25.2 | - | 26.2 | 31.4 | |
| CONC. SIDEWALK | SY | - | 11.2 | 12.8 | - | 11.2 | 12.8 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE | SY | - | 26.7 | 31.8 | - | 32.0 | 38.0 | - | 36.0 | 42.8 | |
| ADA LINEAR GRADING | LF | - | 43.0 | 46.0 | - | 52.0 | 55.0 | - | 59.0 | 62.0 | |
| SODDING | SY | - | 18.4 | 18.8 | - | 22.4 | 22.8 | - | 25.6 | 25.9 | |



T' - IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS IF WITHIN THE RADIUS. PAID FOR AS CONCRETE CURB RAMP

T - TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERRED AT PAVED APPROACH IF CONDITIONS ALLOW)
 * - T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK. (IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

- L - LANDING
- R - RAMP
- CURB RAMP PAY LIMITS
- SOD SLOPE 6:1 MIN.
- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

NOTE: QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.

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ADA LIBRARY TYPICAL
 TYPE 1
 PERPENDICULAR
 CURB RAMPS

TYPICAL SECTION
 SHEET 2 OF 9

PARALLEL - TYPE 2

| TYPE 2-A | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 10.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 9.1 | 10.6 | - | 11.8 | 13.7 | - | 14.4 | 16.8 | |
| CONC. SIDEWALK | SY | - | 5.6 | 6.4 | - | 4.9 | 5.7 | - | 4.9 | 5.7 | |
| TYPE 1 AGGREGATE | SY | - | 14.7 | 17.0 | - | 16.7 | 19.4 | - | 19.3 | 22.5 | |
| ADA LINEAR GRADING | LF | - | 26.0 | 26.0 | - | 29.0 | 29.0 | - | 33.0 | 33.0 | |
| SODDING | SY | - | 8.0 | 8.3 | - | 8.6 | 8.8 | - | 9.6 | 9.8 | |

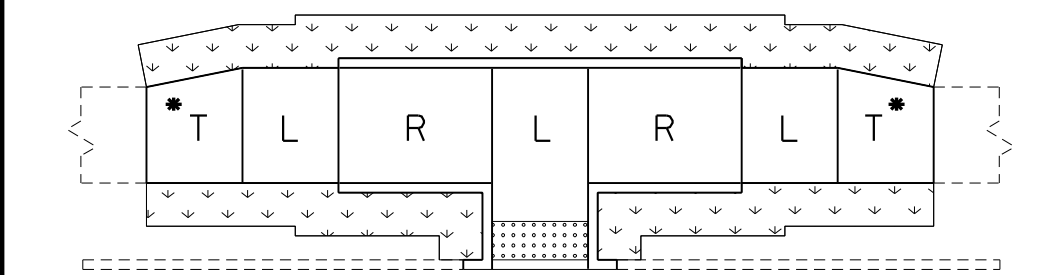
| TYPE 2-B | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 10.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 11.8 | 13.3 | - | 14.5 | 16.4 | - | 17.2 | 19.5 | |
| CONC. SIDEWALK | SY | - | 5.6 | 6.4 | - | 4.9 | 5.7 | - | 4.9 | 5.7 | |
| TYPE 1 AGGREGATE | SY | - | 17.4 | 19.7 | - | 19.4 | 22.1 | - | 22.1 | 25.2 | |
| ADA LINEAR GRADING | LF | - | 26.0 | 26.0 | - | 29.0 | 29.0 | - | 33.0 | 33.0 | |
| SODDING | SY | - | 13.8 | 14.1 | - | 15.1 | 15.5 | - | 17.1 | 17.5 | |

| TYPE 2-C | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 10.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 16.4 | 18.7 | - | 21.7 | 24.9 | - | 27.0 | 31.2 | |
| CONC. SIDEWALK | SY | - | 11.2 | 12.8 | - | 9.8 | 11.4 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE | SY | - | 27.6 | 31.5 | - | 31.5 | 36.3 | - | 36.8 | 42.6 | |
| ADA LINEAR GRADING | LF | - | 41.0 | 41.0 | - | 47.0 | 47.0 | - | 55.0 | 55.0 | |
| SODDING | SY | - | 12.3 | 12.5 | - | 13.6 | 13.9 | - | 15.6 | 15.9 | |

| TYPE 2-D | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 10.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 16.8 | 19.2 | - | 22.2 | 25.4 | - | 27.5 | 31.6 | |
| CONC. SIDEWALK | SY | - | 11.2 | 12.8 | - | 9.8 | 11.4 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE | SY | - | 28.0 | 32.0 | - | 32.0 | 36.8 | - | 37.3 | 43.0 | |
| ADA LINEAR GRADING | LF | - | 41.0 | 41.0 | - | 47.0 | 47.0 | - | 55.0 | 55.0 | |
| SODDING | SY | - | 20.2 | 20.3 | - | 22.4 | 23.2 | - | 26.4 | 27.2 | |

| TYPE 2-E | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 10.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 10.8 | 11.5 | - | 13.2 | 14.4 | - | 15.7 | 17.3 | |
| CONC. SIDEWALK | SY | - | 5.6 | 6.7 | - | 5.0 | 6.0 | - | 5.0 | 6.0 | |
| TYPE 1 AGGREGATE | SY | - | 16.4 | 18.2 | - | 18.2 | 20.4 | - | 20.7 | 23.3 | |
| ADA LINEAR GRADING | LF | - | 22.5 | 22.5 | - | 26.5 | 26.5 | - | 30.5 | 30.5 | |
| SODDING | SY | - | - | - | - | - | - | - | - | - | |
| HANDRAIL | LF | - | - | - | - | - | - | - | - | - | |

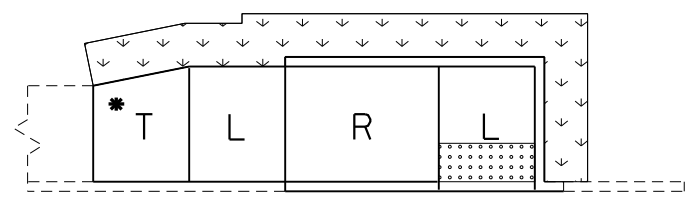
| TYPE 2-F | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 10.0 | 10.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 15.5 | 17.1 | - | 20.4 | 23.1 | - | 25.5 | 28.9 | |
| CONC. SIDEWALK | SY | - | 11.2 | 13.4 | - | 10.0 | 12.0 | - | 10.0 | 12.0 | |
| TYPE 1 AGGREGATE | SY | - | 26.7 | 30.5 | - | 30.4 | 35.1 | - | 35.5 | 40.9 | |
| ADA LINEAR GRADING | LF | - | 39.0 | 39.0 | - | 47.0 | 47.0 | - | 55.0 | 55.0 | |
| SODDING | SY | - | - | - | - | - | - | - | - | - | |
| HANDRAIL | LF | - | - | - | - | - | - | - | - | - | |



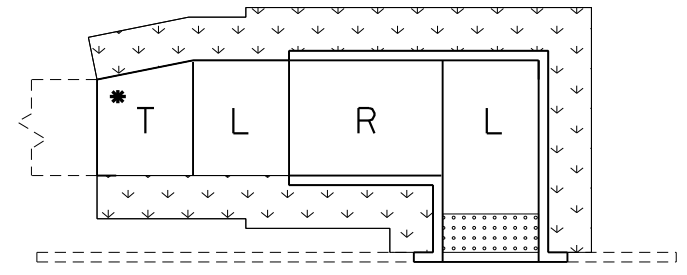
TYPE 2-D

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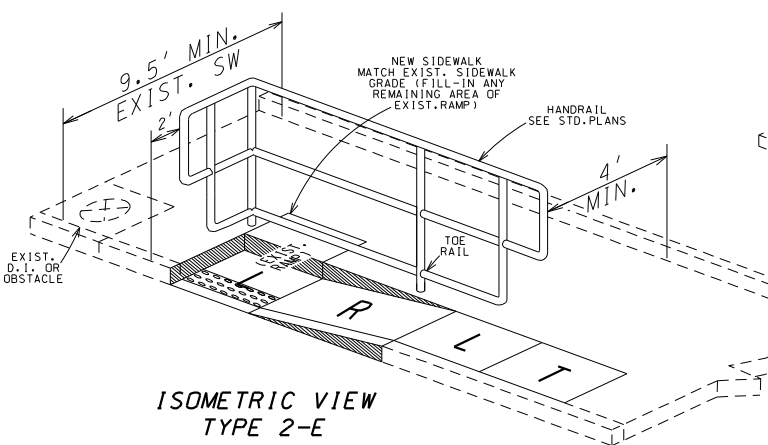
NOTE:
 QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



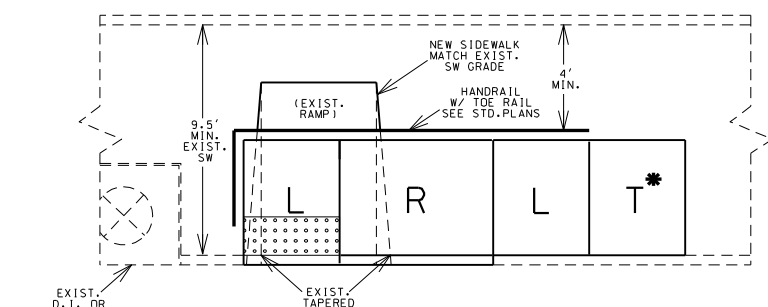
TYPE 2-A



TYPE 2-B



ISOMETRIC VIEW TYPE 2-E



TYPE 2-E

USE ONLY WHEN TYPE 2-F IS UNABLE TO BE CONSTRUCTED DUE TO AN EXIST. D.I. OR OTHER OBSTACLE
 SEE STANDARDS FOR HANDRAIL SPECS

**** 3.5' LANDING EXTENSION REQ'D. FOR INSTALLATION OF FUTURE OR NEW PED. PUSH BUTTON**

NOTE: SEE STANDARDS FOR ALL PED. PUSH BUTTON LOCATIONS

☐ - TRUNCATED DOME

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

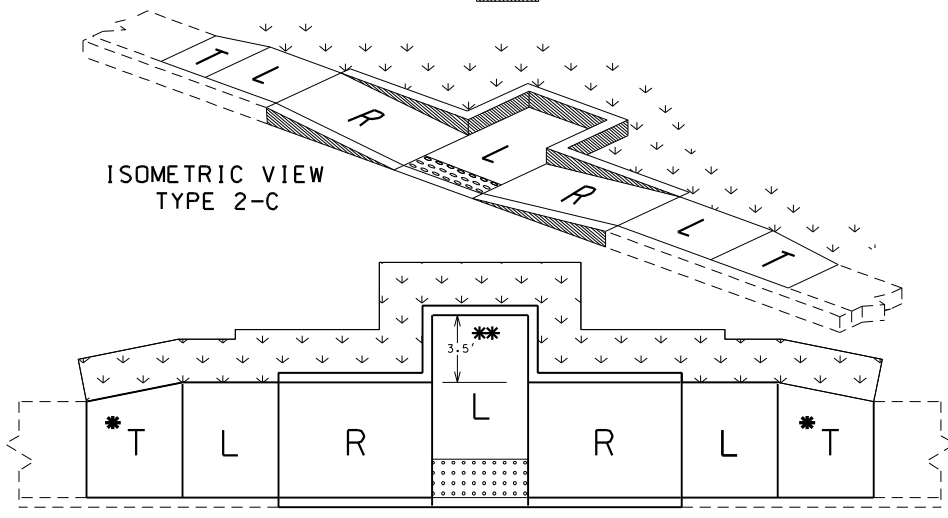
T - TRANSITION TO EXISTING SW
 * - T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK. (IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L - LANDING

R - RAMP

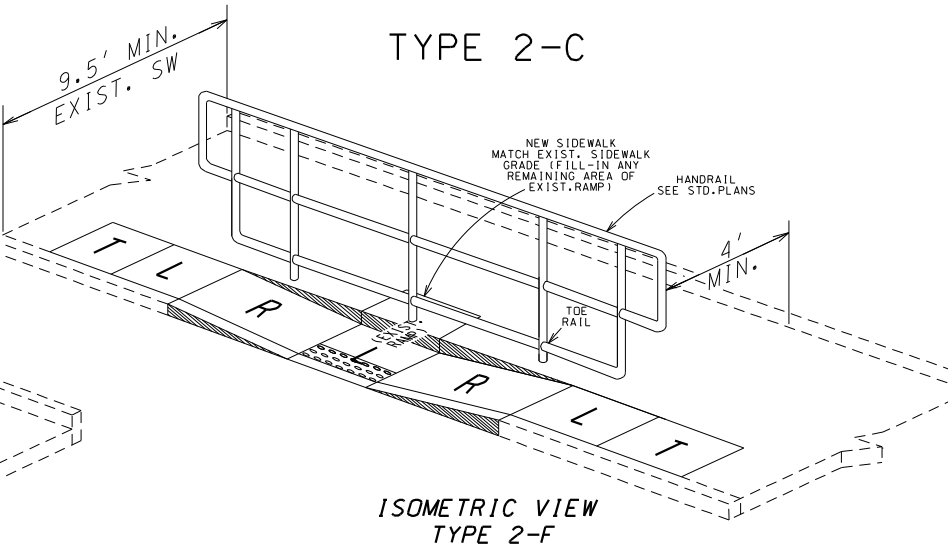
▾ ▾ - SOD SLOPE 6:1 MIN.

▨ ▨ - CURB RAMP PAY LIMITS



ISOMETRIC VIEW TYPE 2-C

TYPE 2-C



ISOMETRIC VIEW TYPE 2-F

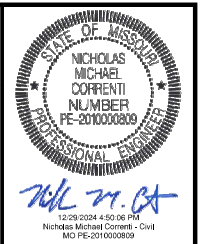
TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

ADA LIBRARY TYPICAL
 TYPE 2
 PARALLEL CURB RAMPS

TYPICAL SECTION
 SHEET 3 OF 9

REVISED: 08-16-202



DATE PREPARED: 12/29/2024

| | |
|----------|-----------|
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 2 |

COUNTY: VARIOUS
 JOB NO.: JCD0076
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

| PARALLEL - TYPE 2 (cont'd.) | | | | | | | | | | | |
|-----------------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| TYPE 2-G | | 8 | | | 12 | | | 16 | | | REMARKS |
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 12.0 | 12.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 15.7 | 18.0 | - | 20.8 | 23.7 | - | 25.8 | 30.2 | |
| CONC. SIDEWALK | SY | - | 21.4 | 25.0 | - | 17.6 | 20.3 | - | 15.2 | 17.5 | |
| TYPE 1 AGGREGATE | SY | - | 37.1 | 43.0 | - | 38.4 | 44.0 | - | 41.0 | 47.7 | |
| ADA LINEAR GRADING | LF | - | 52.0 | 52.0 | - | 54.0 | 54.0 | - | 58.0 | 58.0 | |
| SODDING | SY | - | 13.6 | 13.6 | - | 13.7 | 13.5 | - | 14.5 | 14.9 | |

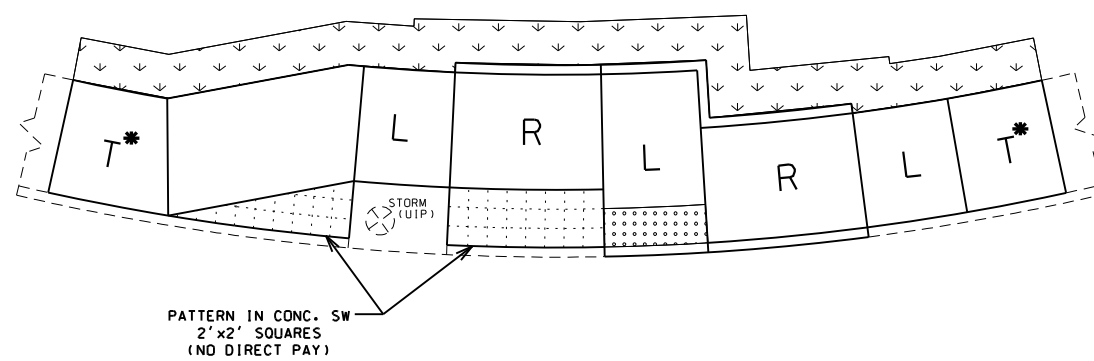
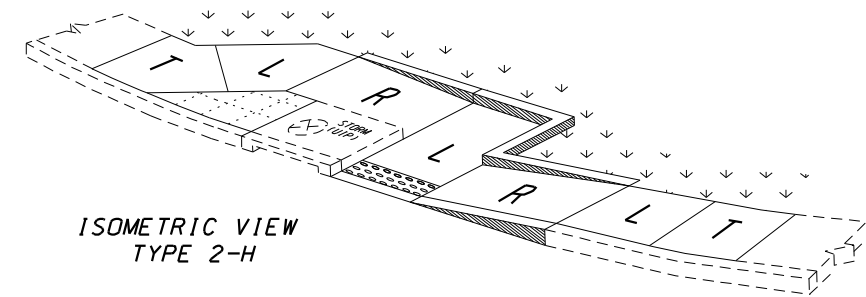
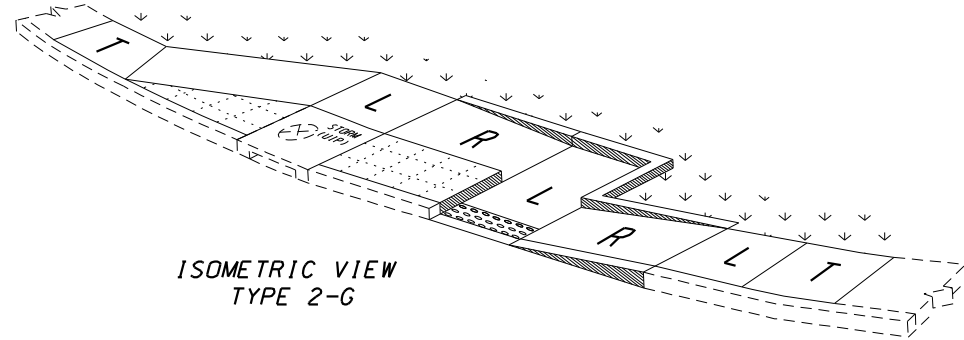
| TYPE 2-H | | 8 | | | 12 | | | 16 | | | REMARKS |
|--------------------|------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES | SF | - | 12.0 | 12.0 | - | 10.0 | 10.0 | - | 10.0 | 10.0 | |
| CURB RAMP | SY | - | 15.7 | 18.0 | - | 21.0 | 24.5 | - | 26.9 | 31.4 | |
| CONC. SIDEWALK | SY | - | 13.2 | 16.0 | - | 12.0 | 14.2 | - | 12.0 | 14.4 | |
| TYPE 1 AGGREGATE | SY | - | 28.9 | 34.0 | - | 33.0 | 38.6 | - | 38.9 | 45.8 | |
| ADA LINEAR GRADING | LF | - | 42.0 | 42.0 | - | 49.0 | 49.0 | - | 55.0 | 55.0 | |
| SODDING | SY | - | 11.1 | 11.2 | - | 12.5 | 12.5 | - | 14.5 | 14.9 | |

T* - IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK. (IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

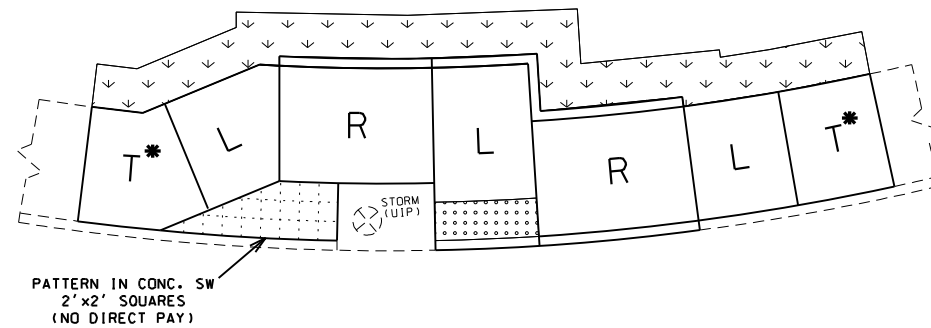
T - TRANSITION TO EXISTING SW
L - LANDING
R - RAMP

- ↘ ↘ - SOD SLOPE 6:1 MIN.
- [Dotted Pattern] - TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'
- [Hatched Pattern] - CURB RAMP PAY LIMITS
- [Dotted Pattern] - INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

NOTE: QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



TYPE 2-G



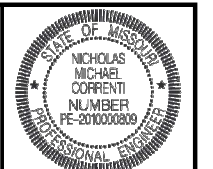
TYPE 2-H

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ADA LIBRARY TYPICAL

TYPE 2
PARALLEL
CURB RAMPS

TYPICAL SECTION
SHEET 4 OF 9



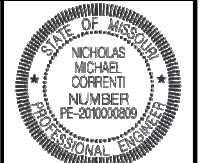
12/29/2024 4:50:52 PM
Nicholas Michael Correnti - Civil
MO PE-2010000809

| | |
|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 2 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



Nick M. Correnti
12/29/2024 4:51:22 PM
Nicholas Michael Correnti - Civil
MO PE-2010000809

DATE PREPARED
12/29/2024

ROUTE VARIOUS STATE MO
DISTRICT CD SHEET NO. 2

COUNTY VARIOUS

JOB NO. JCD0076
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr Phone 314-394-3100
Suite 250 St. Louis, MO 63021 Fax 314-394-3199
Missouri Certificate of Authority: 001578

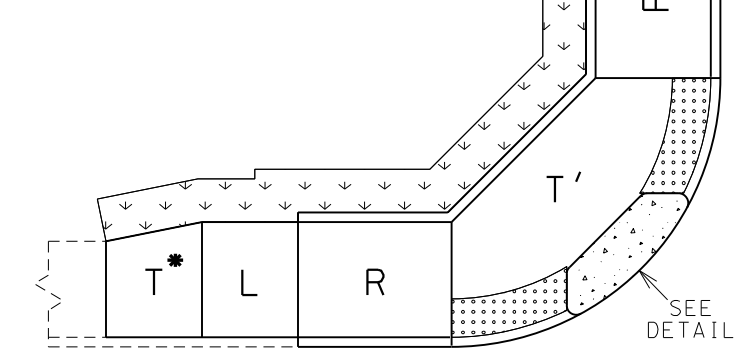
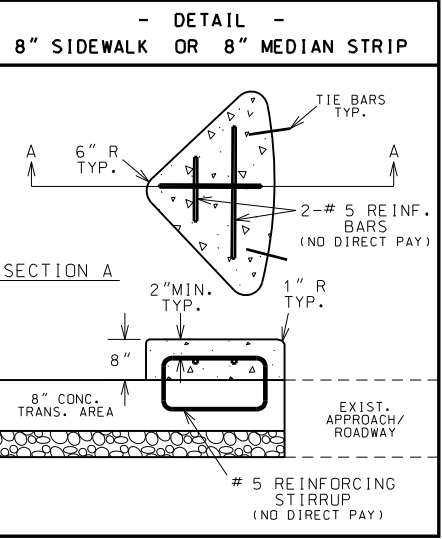
| DIAGONAL - TYPE 3 | | | | | | | | | | |
|-----------------------|---|------|------|----|------|------|----|------|------|---------|
| TYPE 3-A | | | | | | | | | | |
| LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
| WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES SF | - | 24.0 | 28.0 | - | 20.6 | 25.0 | - | 20.6 | 25.0 | |
| CURB RAMP SY | - | 24.4 | 27.0 | - | 26.9 | 31.2 | - | 32.2 | 37.4 | |
| CONC. SIDEWALK SY | - | 11.2 | 12.8 | - | 9.8 | 11.4 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE SY | - | 35.6 | 39.8 | - | 36.7 | 42.6 | - | 42.0 | 48.8 | |
| ADA LINEAR GRADING LF | - | 51.0 | 51.0 | - | 59.0 | 59.0 | - | 67.0 | 67.0 | |
| SODDING SY | - | 11.6 | 11.4 | - | 12.9 | 12.9 | - | 14.9 | 14.9 | |
| 8"SW OR MED STRIP SY | - | 3.0 | 2.2 | - | 3.0 | 2.2 | - | 3.0 | 2.2 | |

| TYPE 3-B | | | | | | | | | | |
|-----------------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
| WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES SF | - | 24.0 | 28.0 | - | 20.6 | 25.0 | - | 20.6 | 25.0 | |
| CURB RAMP SY | - | 22.0 | 26.3 | - | 25.9 | 31.2 | - | 31.2 | 37.4 | |
| CONC. SIDEWALK SY | - | 11.2 | 12.8 | - | 9.8 | 11.4 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE SY | - | 33.2 | 39.1 | - | 35.7 | 42.6 | - | 41.0 | 48.8 | |
| ADA LINEAR GRADING LF | - | 51.0 | 51.0 | - | 59.0 | 59.0 | - | 67.0 | 67.0 | |
| SODDING SY | - | 15.2 | 15.3 | - | 17.1 | 17.5 | - | 20.1 | 20.5 | |
| 8"SW OR MED STRIP SY | - | 1.5 | 1.5 | - | 1.5 | 1.5 | - | 1.5 | 1.5 | |

| TYPE 3-C | | | | | | | | | | |
|-----------------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
| WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES SF | - | 20.0 | 24.0 | - | 20.0 | 24.0 | - | 20.0 | 24.0 | |
| CURB RAMP SY | - | 20.7 | 26.8 | - | 25.1 | 31.5 | - | 30.4 | 37.7 | |
| CONC. SIDEWALK SY | - | 11.2 | 12.8 | - | 9.8 | 11.4 | - | 9.8 | 11.4 | |
| TYPE 1 AGGREGATE SY | - | 31.9 | 39.6 | - | 34.9 | 42.9 | - | 40.2 | 49.1 | |
| ADA LINEAR GRADING LF | - | 51.0 | 51.0 | - | 58.0 | 58.0 | - | 67.0 | 67.0 | |
| SODDING SY | - | 18.8 | 19.3 | - | 21.3 | 22.1 | - | 25.3 | 26.1 | |
| 8"SW OR MED STRIP SY | - | 1.0 | 1.6 | - | 1.0 | 1.6 | - | 1.0 | 1.6 | |

| TYPE 3-D | | | | | | | | | | |
|-----------------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
| WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES SF | - | 24.0 | 28.0 | - | 22.4 | 26.5 | - | 22.4 | 26.5 | |
| CURB RAMP SY | - | 15.9 | 19.1 | - | 17.7 | 21.4 | - | 20.4 | 24.5 | |
| CONC. SIDEWALK SY | - | 5.6 | 6.4 | - | 4.9 | 5.7 | - | 4.9 | 5.7 | |
| TYPE 1 AGGREGATE SY | - | 21.5 | 25.5 | - | 22.6 | 27.1 | - | 25.3 | 30.2 | |
| ADA LINEAR GRADING LF | - | 31.0 | 31.0 | - | 34.0 | 34.0 | - | 38.0 | 38.0 | |
| SODDING SY | - | 12.6 | 12.9 | - | 13.5 | 14.0 | - | 15.5 | 16.0 | |
| 8"SW OR MED STRIP SY | - | 1.0 | 0.8 | - | 1.0 | 0.8 | - | 1.0 | 0.8 | |

| TYPE 3-E | | | | | | | | | | |
|-----------------------|---|------|------|----|------|------|----|------|------|---------|
| LENGTH (LF) | 8 | | | 12 | | | 16 | | | REMARKS |
| WIDTH (LF) | 4 | 5 | 6 | 4 | 5 | 6 | 4 | 5 | 6 | |
| TRUNCATED DOMES SF | - | 20.0 | 24.0 | - | 20.0 | 24.0 | - | 20.0 | 24.0 | |
| CURB RAMP SY | - | 17.2 | 19.8 | - | 17.7 | 21.4 | - | 20.4 | 24.5 | |
| CONC. SIDEWALK SY | - | 8.4 | 10.7 | - | 7.3 | 9.4 | - | 7.3 | 9.4 | |
| TYPE 1 AGGREGATE SY | - | 25.6 | 30.5 | - | 25.0 | 30.8 | - | 27.7 | 33.9 | |
| ADA LINEAR GRADING LF | - | 30.0 | 30.0 | - | 35.5 | 35.5 | - | 39.5 | 39.5 | |
| SODDING SY | - | 12.4 | 12.4 | - | 12.9 | 13.3 | - | 14.9 | 15.3 | |
| 8"SW OR MED STRIP SY | - | 1.6 | 1.6 | - | 1.6 | 1.6 | - | 1.6 | 1.6 | |



TYPE 3-A

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T' - IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS IF WITHIN THE RADIUS. PAID FOR AS CONCRETE CURB RAMP

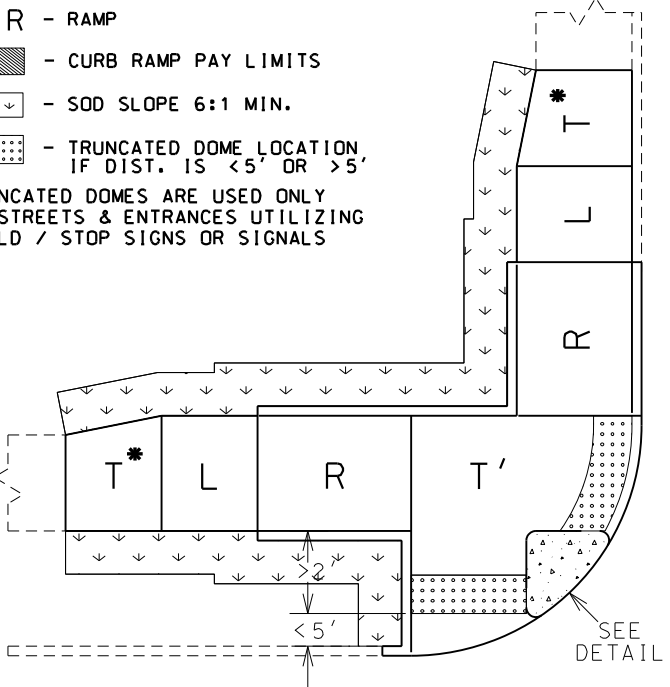
NOTE: QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.

T - TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERRED IF CONDITIONS ALLOW)

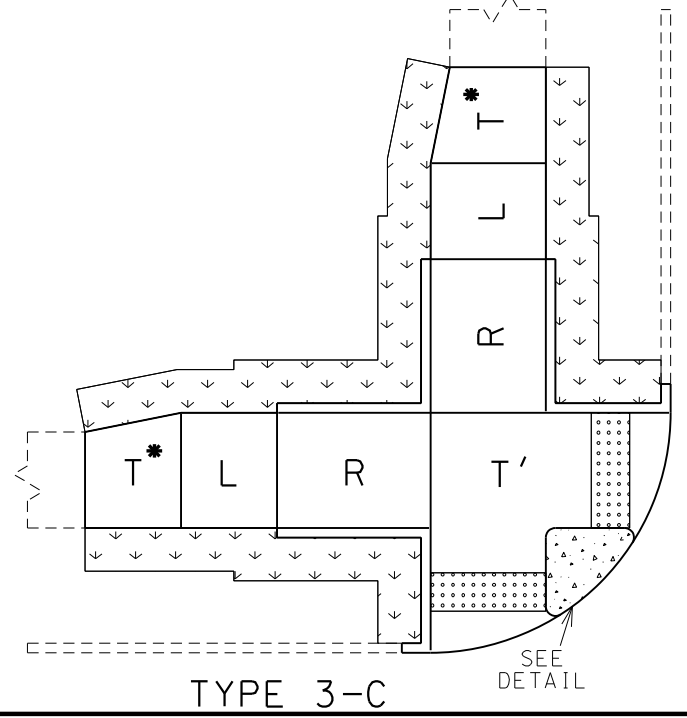
T* - IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK. (IT WILL BLEND THE EXIST XSLOPE WITH THE NEW LANDING XSLOPE)

L - LANDING
R - RAMP

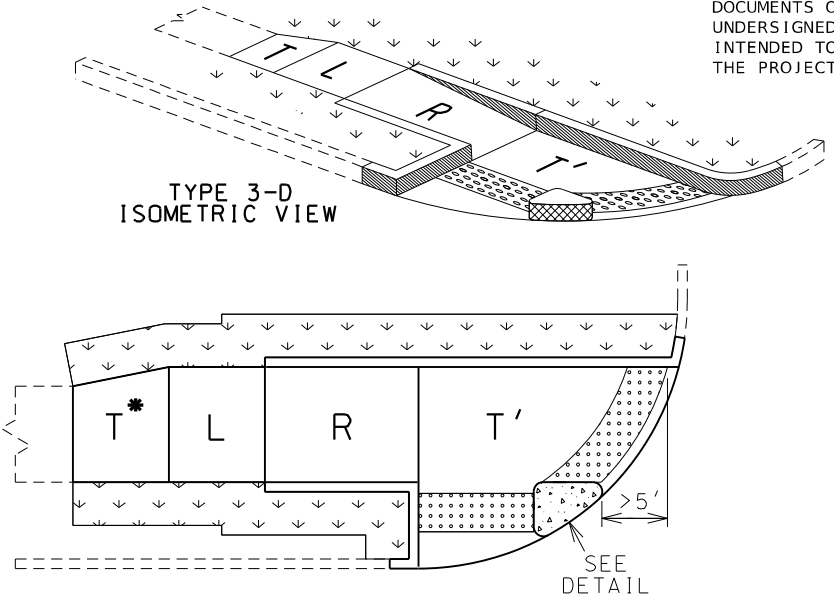
- CURB RAMP PAY LIMITS
 - SOD SLOPE 6:1 MIN.
 - TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'
- TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



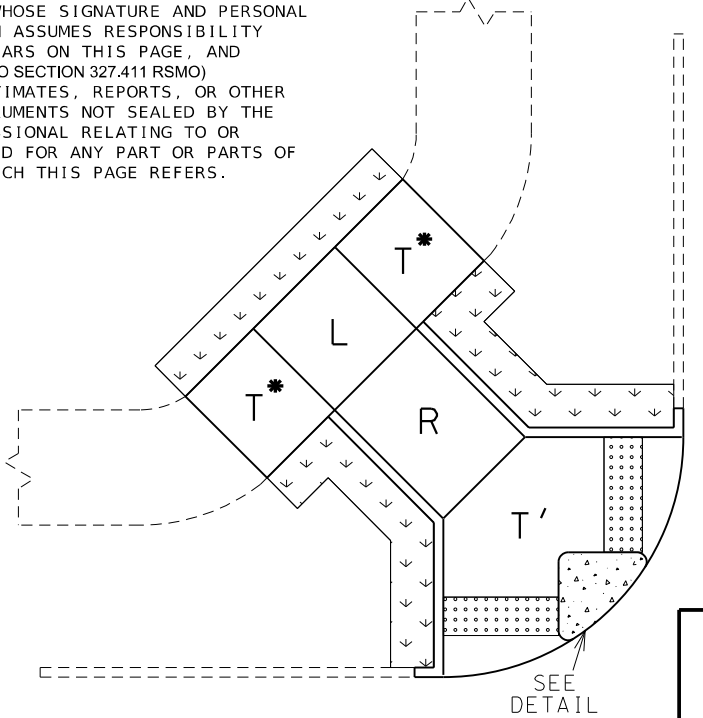
TYPE 3-B



TYPE 3-C



TYPE 3-D



TYPE 3-E

ADA LIBRARY TYPICAL
TYPE 3
DIAGONAL CURB RAMPS
TYPICAL SECTION SHEET 5 OF 9

NOTES FOR MODIFIED SIDEWALK:

1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK PAID FOR AS 8" SIDEWALK.
6. 6' MINIMUM WIDTH.
7. NO DIRECT PAY FOR SAW CUTS AND TIE BARS (ON 12" CENTERS MAX.)
8. TRUNCATED Dômes ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

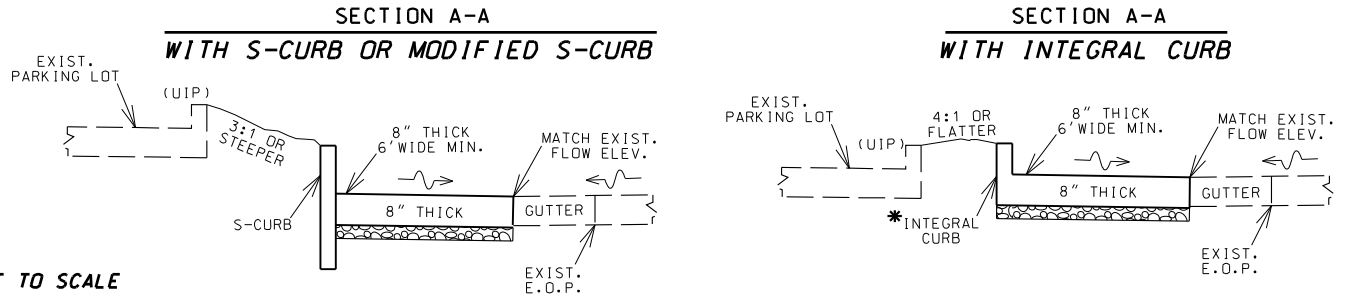
* INTEGRAL CURB IS PAID FOR WITH THE 8" CONC. SIDEWALK PAY ITEM. INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6' SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

REVISED: 03-01-2018

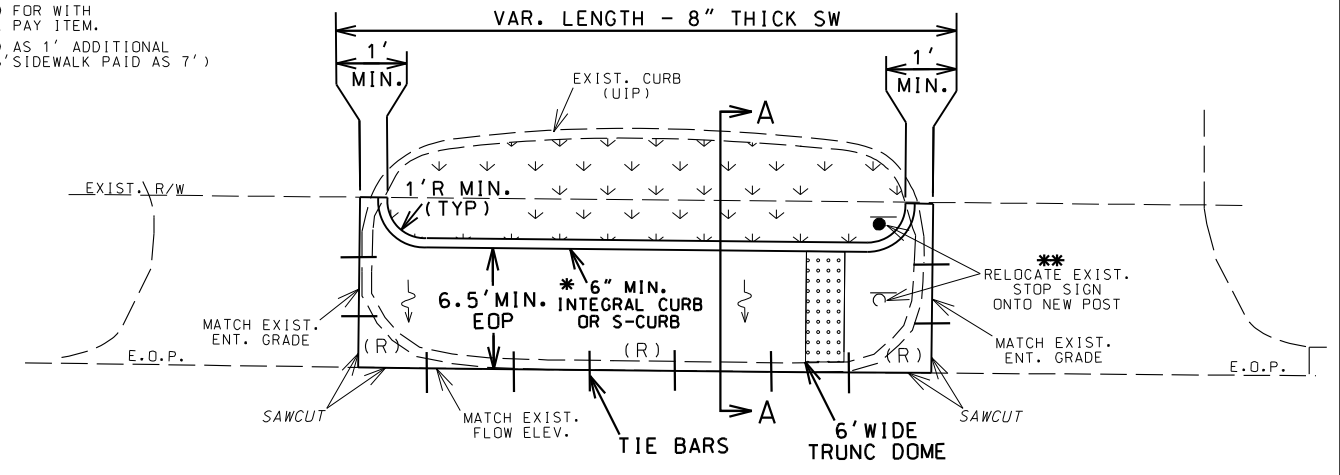


TYPICAL MODIFIED SIDEWALK
8" THICK

** TRUNCATED DÔMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP/YIELD SIGNS OR SIGNALS.



NOT TO SCALE

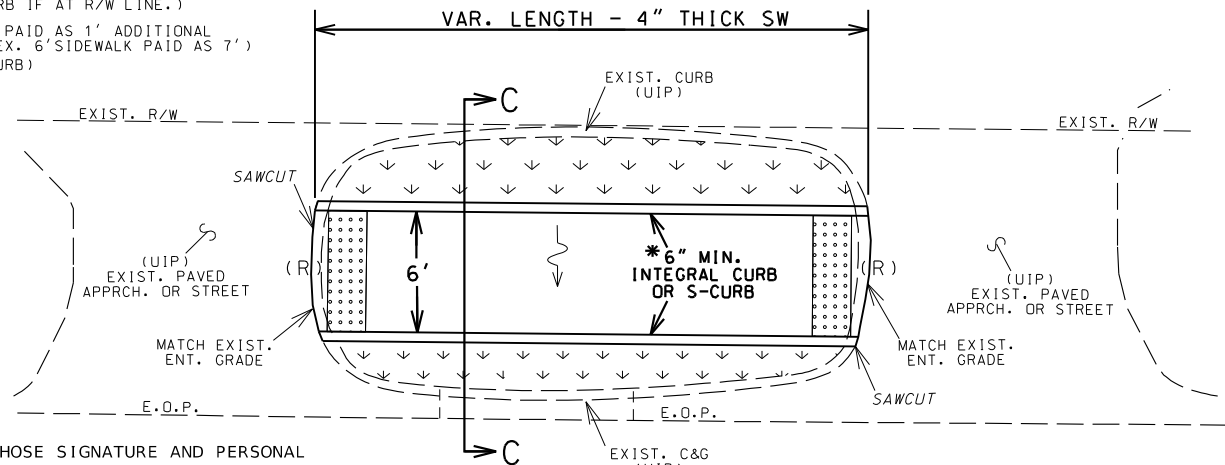


NOTES FOR CUT-THRU SIDEWALK:

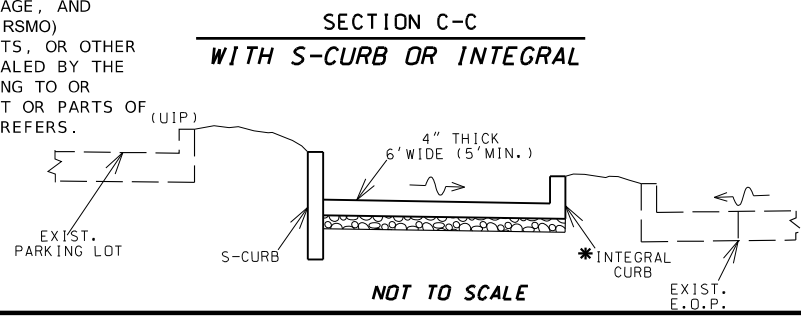
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU SIDEWALK PAID FOR AS 4" SIDEWALK.
6. 6' PREFERRED WIDTH (5' MIN.)
7. SAW CUTS (NO DIRECT PAY).
8. TRUNCATED Dômes ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

* INTEGRAL CURB IS PAID FOR AS 4" CONC. SIDEWALK PAY ITEM. S-CURB IS PAID FOR AS ITS OWN PAY ITEM. (ALWAYS USE S-CURB IF AT R/W LINE.)
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6' SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

TYPICAL CUT-THRU SIDEWALK



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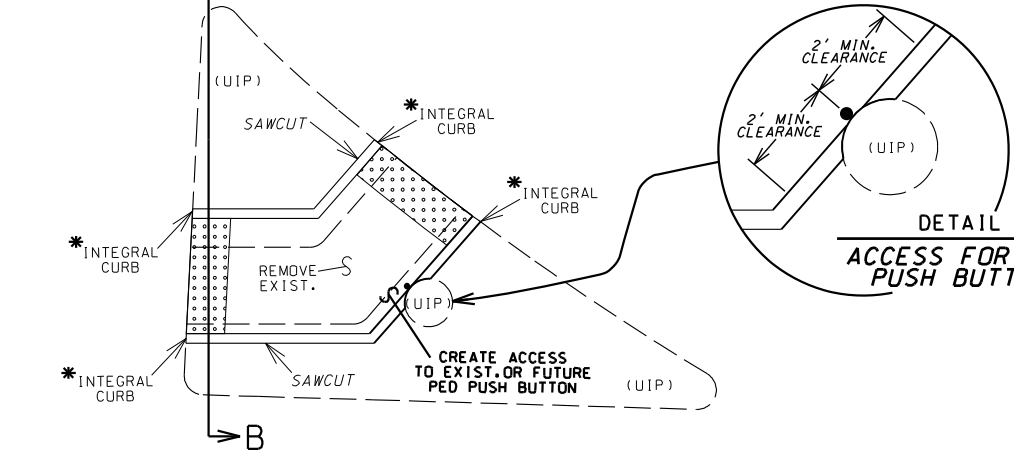


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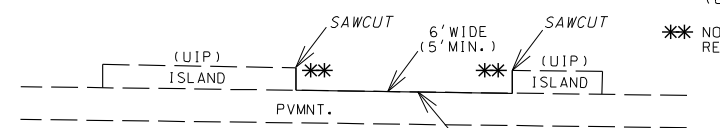
TYPICAL ISLAND CUT-THRU SIDEWALK

NOT TO SCALE

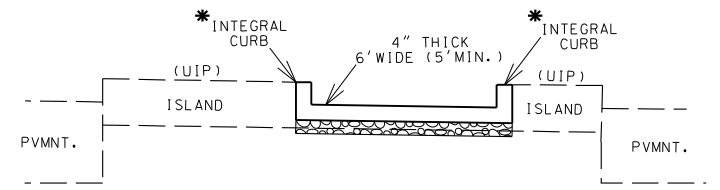
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN



SECTION B-B ISLAND CUT-THRU SIDEWALK FOR EXISTING 'PINNED-ON' ISLAND



SECTION B-B ISLAND CUT-THRU SIDEWALK



■ SMALL QTY. HAS BEEN INCLUDED FOR 8" THICK SIDEWALK TO ADDRESS ANY UNFORSEEN PVMNT. REPAIRS OR DIFFERENCES IN ELEVATION. (UNDERRRUN IF FIELD CONDITIONS DO NOT WARRANT)
* NO INTEGRAL CURB, AGGR. OR LIN. GRADING REQUIRED IF THE ISLAND IS 'PINNED-ON'

* INTEGRAL CURB IS PAID FOR WITH THE 4" CONC. SIDEWALK PAY ITEM. INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6' SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

MODIFIED SIDEWALK AND SIDEWALK CUT-THRU'S

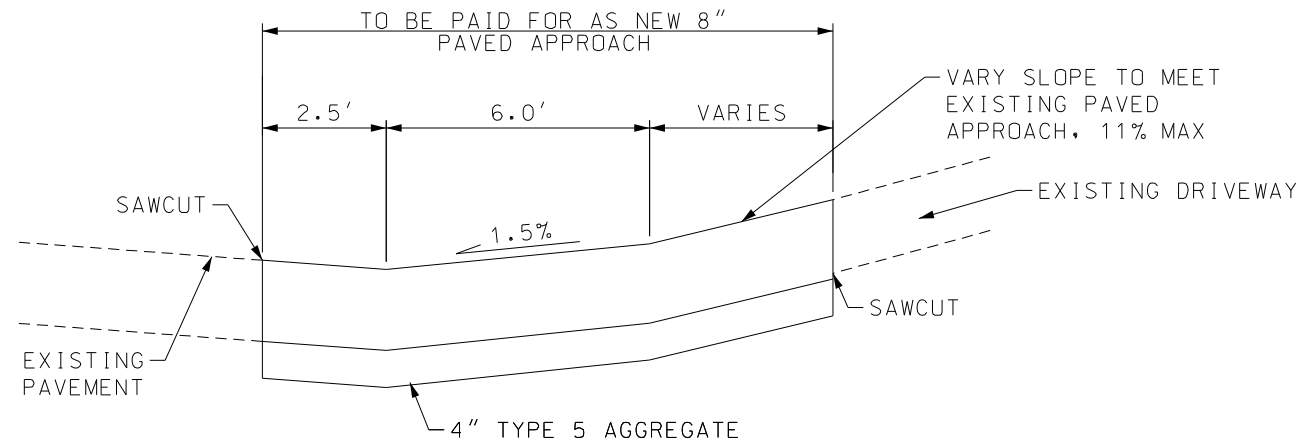
TYPICAL SECTION SHEET 6 OF 9

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

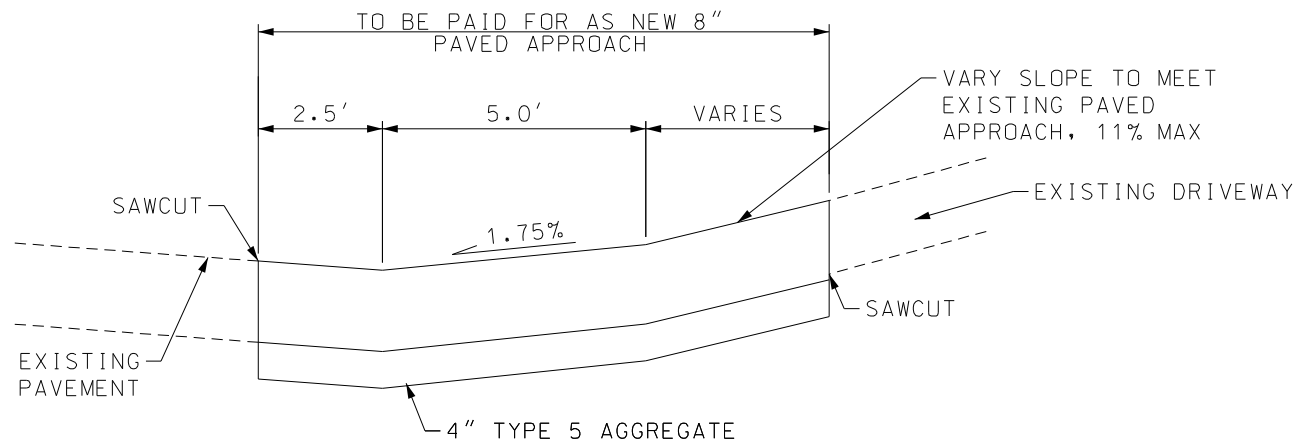
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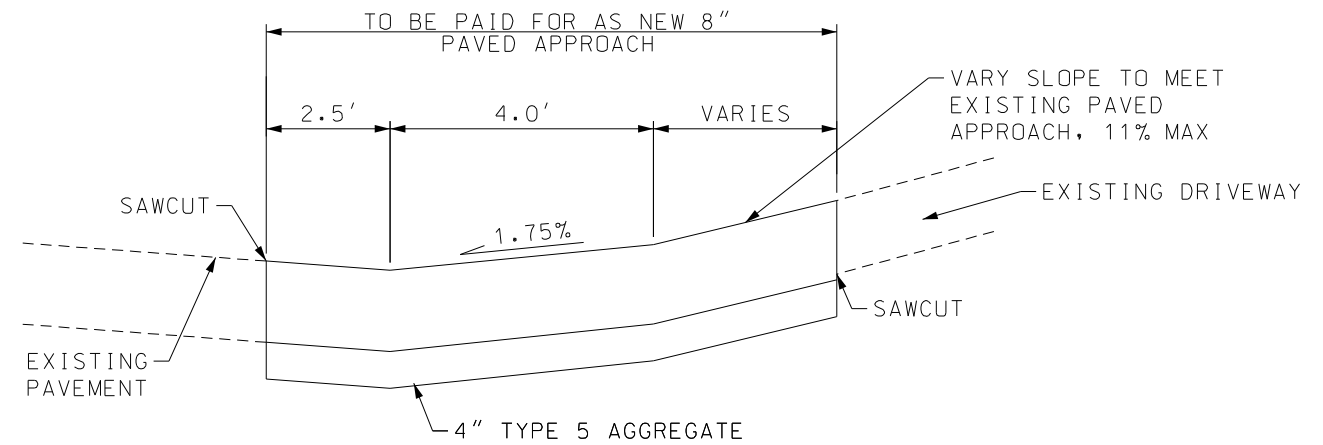


**TYPICAL PAVED APPROACH DETAIL
6.0' PEDESTRIAN ACCESS ROUTE**

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**TYPICAL PAVED APPROACH DETAIL
5.0' PEDESTRIAN ACCESS ROUTE**



**TYPICAL PAVED APPROACH DETAIL
4.0' PEDESTRIAN ACCESS ROUTE**

PAVED APPROACH
DETAILS

TYPICAL SECTION
SHEET 7 OF 9



Nick M. Correnti
 Nicholas Michael Correnti - Civil
 MO PE-2010000809

DATE PREPARED
12/29/2024

| | |
|----------|-----------|
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 2 |

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

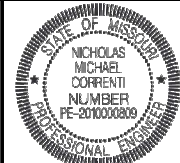
BRIDGE NO.

| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION
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12/29/2024 4:53:15 PM
 Nicholas Michael Correnti - Civil
 MO PE-2010000809

DATE PREPARED
 12/29/2024

ROUTE STATE
 VARIOUS MO

DISTRICT SHEET NO.
 CD 2

COUNTY
 VARIOUS

JOB NO.
 JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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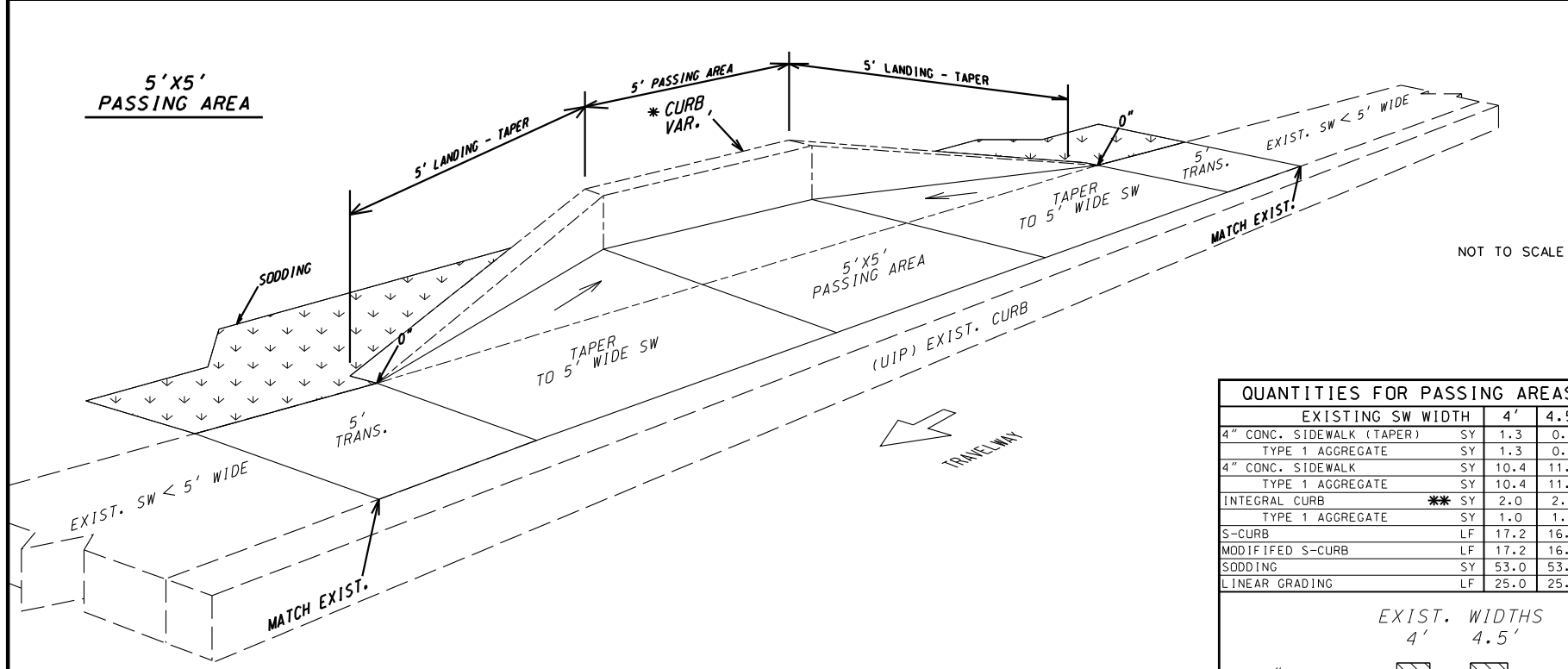
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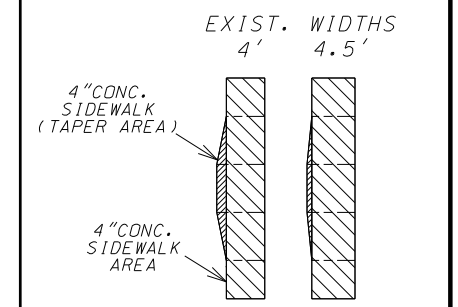
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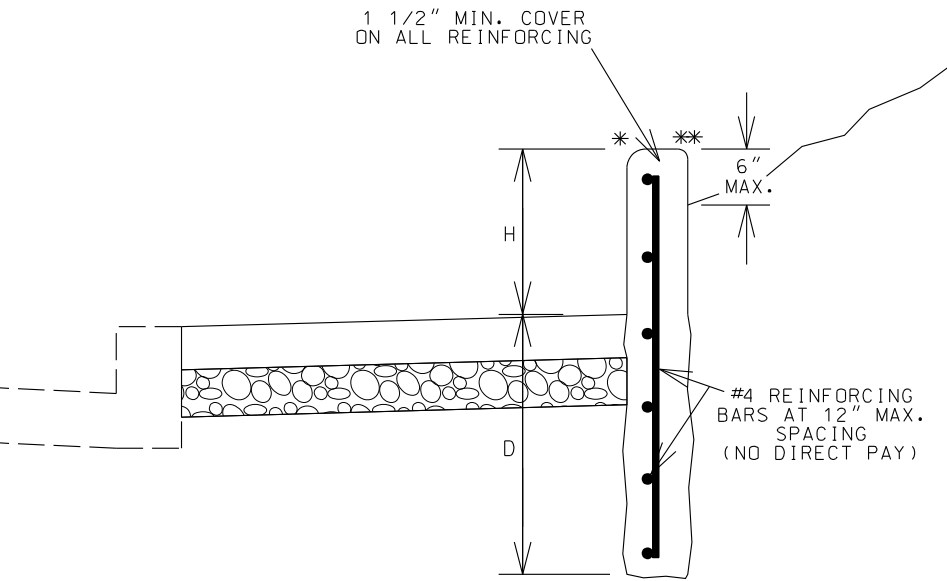


| QUANTITIES FOR PASSING AREAS | | |
|------------------------------|-----------|------|
| EXISTING SW WIDTH | 4' | 4.5' |
| 4" CONC. SIDEWALK (TAPER) | SY 1.3 | 0.7 |
| TYPE 1 AGGREGATE | SY 1.3 | 0.7 |
| 4" CONC. SIDEWALK | SY 10.4 | 11.7 |
| TYPE 1 AGGREGATE | SY 10.4 | 11.7 |
| INTEGRAL CURB | ** SY 2.0 | 2.0 |
| TYPE 1 AGGREGATE | SY 1.0 | 1.0 |
| S-CURB | LF 17.2 | 16.0 |
| MODIFIED S-CURB | LF 17.2 | 16.0 |
| SODDING | SY 53.0 | 53.0 |
| LINEAR GRADING | LF 25.0 | 25.0 |



- NOTES:**
- PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.
 - CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
 - S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.
 - **4. INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6' SW PAID AS 7') (0.11 SY/LF OF CURB)

MODIFIED S-CURB
 > 12" TALL (2'-6" MAX.)

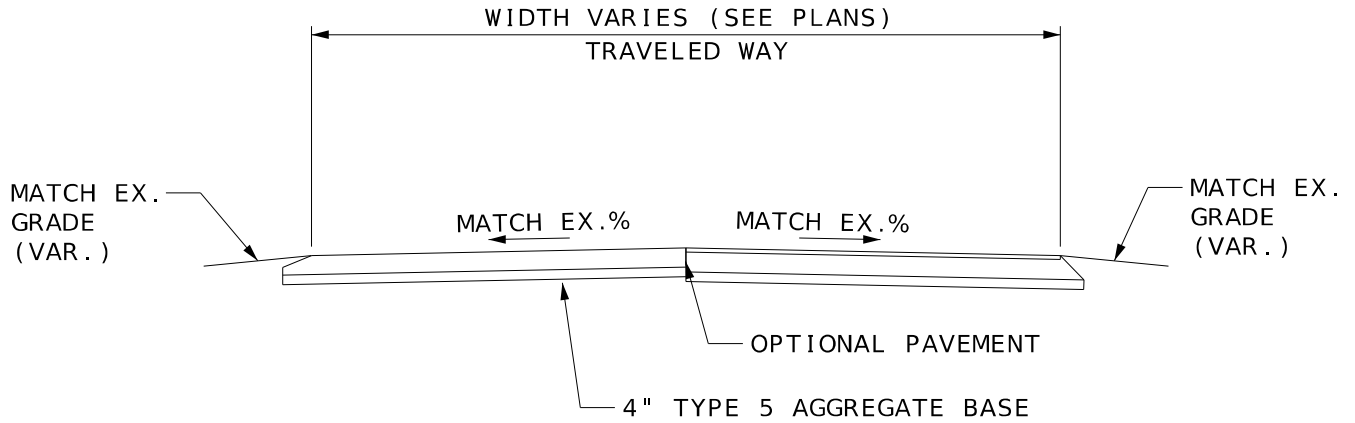


* ROUND TO 3/4" RADIUS
 ** ROUND TO 1/4" RADIUS
 H = 2'-6" MAX. (30")
 D = BURY DEPTH (FORMING NOT REQUIRED)
 THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
 VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
 DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

| OPTIONAL PAVEMENT | |
|-------------------------------------------------------------|-------------------------------------------------------------------|
| ASPHALT OPTION | CONCRETE OPTION |
| 2.0" BP-1 W/PG 64-22 8.0" BITUMINOUS BASE W/ PG 64-22 | 8 IN. CONCRETE PAVEMENT (15 FT. JOINTS AND 1.25" DOWELS) |

APPLICATION RATES:

| | |
|-------------------|------------------------------|
| BP-1 PG64-22: | 1.948 TONS/C.Y. |
| BIT BASE PG64-22: | 1.943 TONS/C.Y. |
| TACK COAT: | 0.05 GAL/S.Y. (NEW SURFACES) |



OPTIONAL PAVEMENT

PASSING AREAS,
 MODIFIED S-CURB,
 OPTIONAL PAVEMENT

TYPICAL SECTION
 SHEET 8 OF 9

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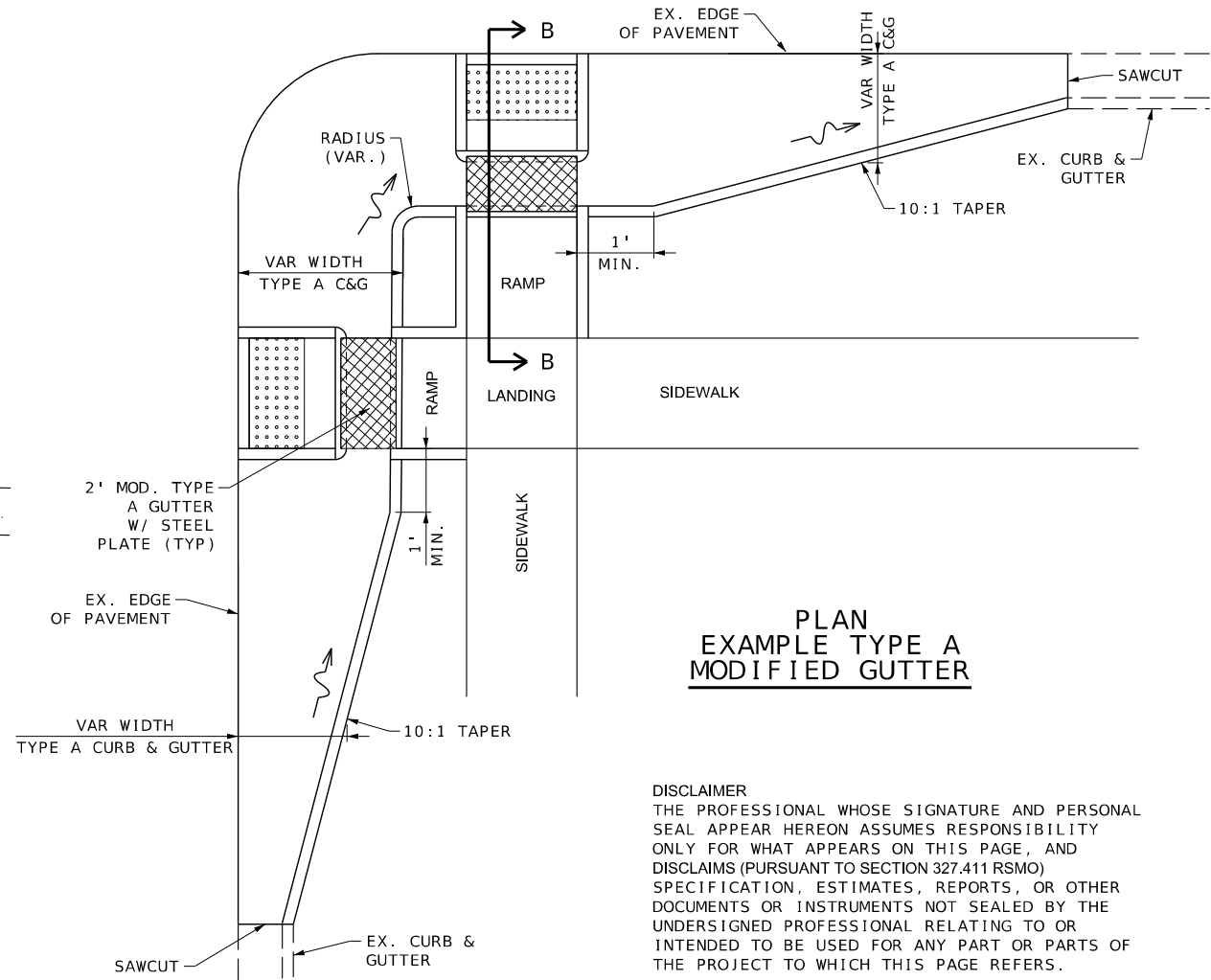
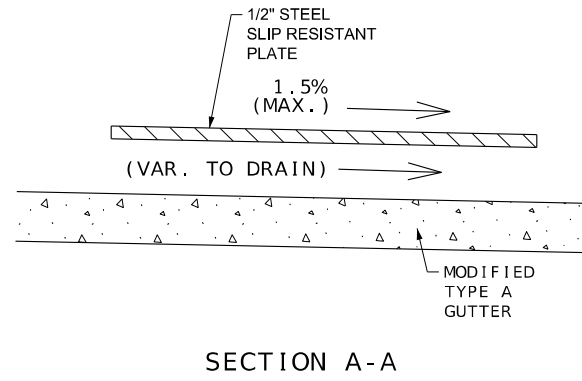
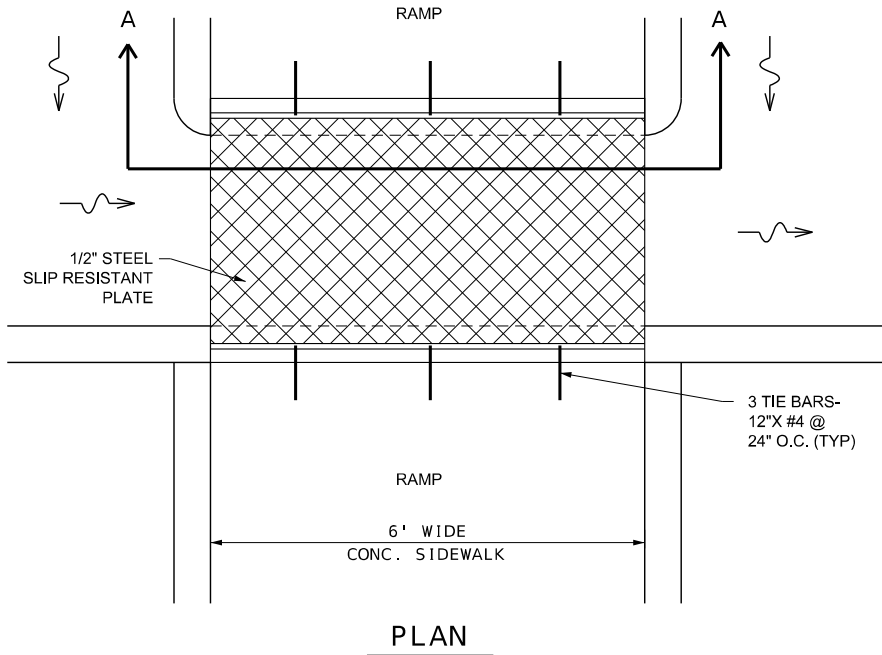
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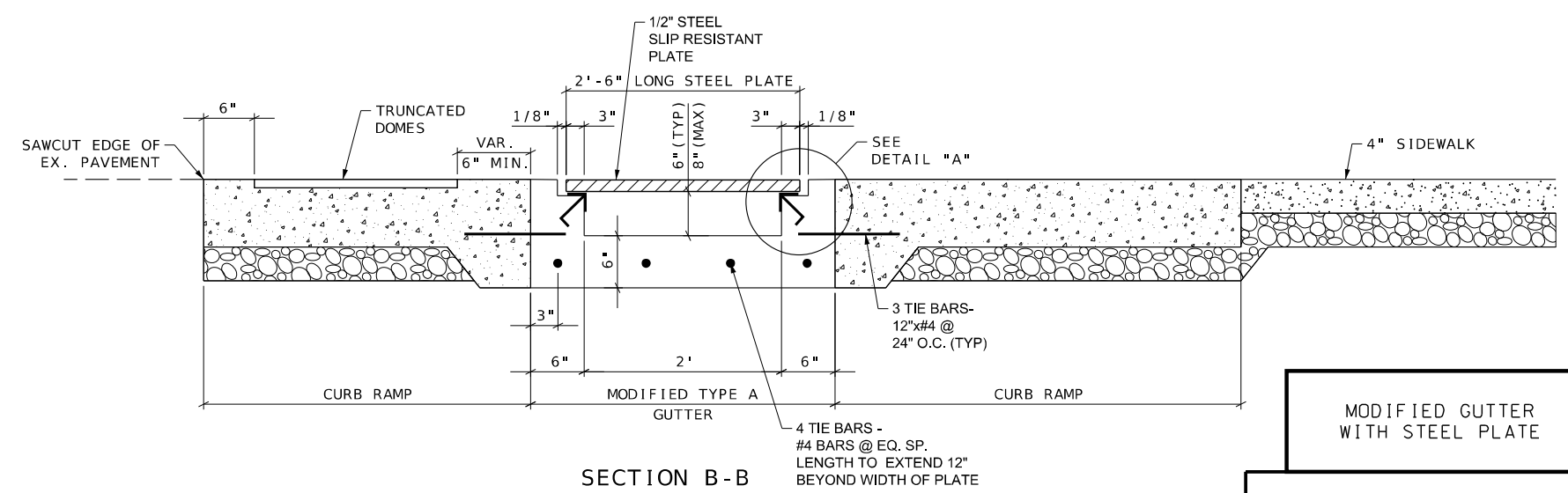
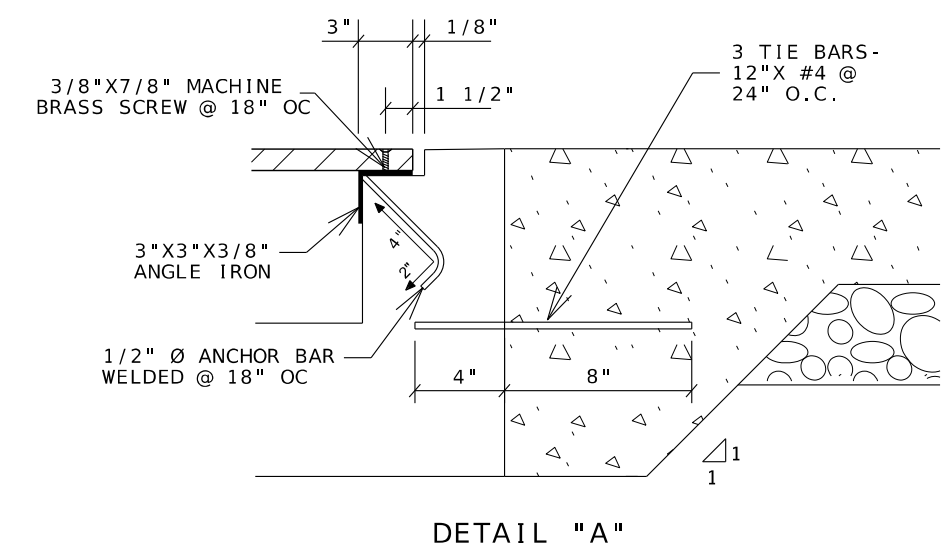
NOTES:

1. THE 1/2" STEEL SLIP-RESISTANT PLATE SHALL HAVE A MIN. STATIC COEFFICIENT OF FRICTION OF 0.6.
2. FLATHEAD BRASS MACHINE SCREWS 3/8" x 7/8". HOLES SHALL BE DRILLED AND TAPPED IN THE FIELD AT INTERVALS NOT TO EXCEED 18" CENTER TO CENTER (NO DIRECT PAY).
3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED (NO DIRECT PAY).
4. ALL REINFORCING STEEL, ANCHOR BARS, ANGLE IRON, SCREWS, AND 'T' SUPPORTS SHALL BE INCIDENTAL (NO DIRECT PAY).
5. CURB RAMPS SHALL BE BUILT TO CURRENT ADA STANDARDS.

MODIFIED TYPE A GUTTER w/ STEEL PLATE - 2' OPENING



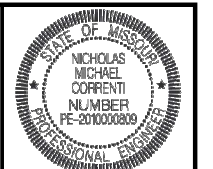
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MODIFIED GUTTER WITH STEEL PLATE

TYPICAL SECTION SHEET 9 OF 9

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| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 2 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
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REMOVAL OF IMPROVEMENTS

| SHEET NO. | STATION | STATION | OFFSET | ROADWAY | QUANTITY | DESCRIPTION |
|-------------------------------------|---------|---------|--------|-----------|------------|-----------------------------------------|
| LOCATION 1A - ROUTE WW | | | | | | |
| 1 | 104+00 | 108+00 | LT/RT | ROUTE WW | 17 SY | SIDEWALK, 21 LF SAW CUT |
| 2 | 114+39 | 116+78 | LT | ROUTE WW | 132 SY | SIDEWALK, 10 LF SAW CUT |
| 3 | 204+27 | 204+35 | LT | ROUTE WW | 7 SY | SIDEWALK, 16 LF SAW CUT |
| 4 | 169+46 | 170+50 | RT | ROUTE WW | 48 SY | SIDEWALK, 20 LF SAW CUT |
| 4 | 169+46 | 170+50 | RT | ROUTE WW | 8.5 SY | FULL DEPTH CONC PVMT, 33 LF SAW CUT |
| 4 | 169+46 | 170+50 | RT | ROUTE WW | 26 LF | 5 CURB, 2 LF SAWCUT |
| 5 | 180+00 | 185+00 | LT/RT | ROUTE WW | 49 SY | SIDEWALK, 29 LF SAWCUT |
| 5 | 180+00 | 185+00 | LT/RT | ROUTE WW | 50 SF | 5 TRUNCATED DOMES |
| LOCATION 1B - ROUTE TT | | | | | | |
| 6B | 61+80 | 67+20 | LT/RT | ROUTE TT | 494 SY | SIDEWALK, 21 LF SAWCUT |
| 6B | 61+80 | 67+20 | RT | ROUTE TT | 15 LF | CURB AND GUTTER, 37 LF SAWCUT |
| 6B | 61+80 | 67+20 | LT/RT | ROUTE TT | 6 EA | PED SIGNAL HEAD |
| 6B | 61+80 | 67+20 | LT/RT | ROUTE TT | 8 EA | PED PUSH BUTTON |
| 6B | 61+80 | 67+20 | LT/RT | ROUTE TT | 11 SY | ISLAND CONC MEDIAN, 96 LF SAWCUT |
| 6A | 67+20 | 72+20 | LT | ROUTE TT | 275 SY | SIDEWALK |
| 7A | 56+40 | 61+80 | LT/RT | ROUTE TT | 389 SY | SIDEWALK, 12 LF SAW CUT |
| 7B | 51+00 | 56+40 | LT/RT | ROUTE TT | 450 SY | SIDEWALK, 27 LF SAWCUT |
| 7B | 51+00 | 56+40 | RT | ROUTE TT | 15 SF | 1 TRUNCATED DOMES |
| 7B | 51+00 | 56+40 | LT/RT | ROUTE TT | 5 EA | PED SIGNAL HEAD |
| 7B | 51+00 | 56+40 | LT/RT | ROUTE TT | 6 EA | PED PUSH BUTTON |
| 7B | 51+00 | 56+40 | LT/RT | ROUTE TT | 9 SY | ISLAND CONC MEDIAN, 80 LF SAWCUT |
| 8 | 45+60 | 51+00 | RT | ROUTE TT | 82 SY | SIDEWALK, 6 LF SAW CUT |
| 8 | 45+60 | 51+00 | RT | ROUTE TT | 83 SY | FULL DEPTH CONC PVMT, 158 LF SAW CUT |
| 9 | 45+60 | 51+00 | LT | ROUTE TT | 195 SY | SIDEWALK, 6 LF SAW CUT |
| 10 | 34+08 | 34+31 | RT | ROUTE TT | 25.8 SF | SIDEWALK, 12 LF SAW CUT |
| 10 | 93+57 | 96+80 | LT/RT | ROUTE TT | 87 SY | SIDEWALK, 53 LF SAW CUT |
| 10 | 93+69 | 93+79 | RT | ROUTE TT | 13 SF | 1 TRUNCATED DOMES |
| 10 | 93+68 | 93+87 | RT | ROUTE TT | 11 SY | FULL DEPTH ASPHALT PVMT, 61 LF SAW CUT |
| 11 | 96+80 | 100+00 | LT/RT | ROUTE TT | 86 SY | SIDEWALK, 24 LF SAWCUT |
| LOCATION 1C- ROUTE 163 | | | | | | |
| 12 | 26+08 | 28+12 | LT | ROUTE 163 | 2 EA | PED SIGNAL POST WITH BASE |
| 12 | 26+08 | 28+12 | LT | ROUTE 163 | 2 EA | PED SIGNAL HEAD |
| 12 | 26+08 | 28+12 | LT | ROUTE 163 | 2 EA | PED PUSH BUTTON |
| 12 | 26+08 | 28+12 | LT | ROUTE 163 | 4 SY | SIDEWALK, 32 LF SAWCUT |
| 13 | 42+00 | 44+65 | LT | ROUTE 163 | 1 EA | PED SIGNAL POST WITH BASE |
| 13 | 42+00 | 44+65 | LT | ROUTE 163 | 1 EA | PED SIGNAL HEAD |
| 13 | 42+00 | 44+65 | LT | ROUTE 163 | 1 EA | PED PUSH BUTTON |
| 13 | 42+00 | 44+65 | LT | ROUTE 163 | 2 SY | SIDEWALK, 24 LF SAWCUT |
| 14 | 45+61 | 47+38 | RT | ROUTE 163 | 1 EA | PED SIGNAL POST WITH BASE |
| 14 | 45+61 | 47+38 | RT | ROUTE 163 | 1 EA | PED SIGNAL HEAD |
| 14 | 45+61 | 47+38 | RT | ROUTE 163 | 2 SY | SIDEWALK, 24 LF SAWCUT |
| 14 | 45+61 | 47+38 | RT | ROUTE 163 | 1 EA | PED PUSH BUTTON |
| LOCATION 1D - ROUTE E | | | | | | |
| 15 | 691+95 | 692+38 | RT | ROUTE E | 9 SY | SIDEWALK, 12.5 LF SAWCUT |
| 15 | 691+95 | 692+38 | RT | ROUTE E | 8 SF | 1 TRUNCATED DOMES |
| 15 | 691+95 | 692+38 | RT | ROUTE E | 13 SY | CURB & GUTTER, 6 LF SAWCUT |
| 15 | 692+02 | 695+15 | RT | ROUTE E | 84 SY | FULL DEPTH ASPHALT PVMT, 126 LF SAW CUT |
| LOCATION 1E - ROUTE 763 AT ROUTE VV | | | | | | |
| 16 | 10+00 | 15+00 | LT/RT | ROUTE 763 | 9 SY | CONC MEDIAN, 50 LF SAW CUT |
| 16 | 10+00 | 15+00 | LT/RT | ROUTE 763 | 42 SY | SIDEWALK |
| 16 | 10+00 | 15+00 | LT/RT | ROUTE 763 | 93 SF | 8 TRUNCATED DOMES O |
| 16 | 10+00 | 15+00 | LT/RT | ROUTE 763 | 8 EA | CROSSWALK SIGN & ARROW SIGN (ASSY) |
| LOCATION 1F - ROUTE B | | | | | | |
| 17 | 1192+82 | 1192+86 | LT | ROUTE B | 5 SY | SIDEWALK, 5 LF SAWCUT |
| 17 | 1192+82 | 1192+86 | LT | ROUTE B | 1 EA | PED SIGNAL POST |
| 17 | 1192+82 | 1192+86 | LT | ROUTE B | 1 EA | PED PUSH BUTTON |
| 17 | 1192+82 | 1192+86 | LT | ROUTE B | 7 SF | 1 TRUNCATED DOMES |
| LOCATION 2 - ROUTE V | | | | | | |
| 18 | 44+24 | 44+51 | LT | ROUTE V | 8 SY | SIDEWALK, 5 LF SAW CUT |
| 18 | 44+24 | 44+51 | LT | ROUTE V | 7 SF | 1 TRUNCATED DOMES |
| 19 | 50+00 | 54+00 | RT | ROUTE V | 16 SY | FULL DEPTH ASPHALT PVMT, 49 LF SAW CUT |
| LOCATION 3 - ROUTE J | | | | | | |
| 20 | 980+00 | 981+00 | LT/RT | ROUTE J | 29 SY | SIDEWALK, 12 LF SAW CUT |
| 20 | 980+00 | 981+00 | RT | ROUTE J | 34 LF | HANDRAIL |
| 20 | 980+00 | 981+00 | LT | ROUTE J | 2 EA. | 15" CPP PIPE |
| 20 | 980+00 | 981+00 | RT | ROUTE J | 1 EA. | 12" CMP PIPE |
| LOCATION 4 - US 50 | | | | | | |
| 21 | 588+00 | 594+00 | LT | US 50 | 116 SY | SIDEWALK, 46 LF SAW CUT |
| 21 | 588+00 | 594+00 | LT | US 50 | 1 EA. | SIGN POST |
| 22 | 594+00 | 604+50 | LT | US 50 | 255 SY | SIDEWALK, 57 LF SAW CUT |
| 22 | 594+00 | 604+50 | LT | US 50 | 22 SF | 1 TRUNCATED DOMES |
| 22 | 594+00 | 604+50 | LT | US 50 | 2 EA. | SIGN POST |
| 23 | 604+00 | 610+00 | LT/RT | US 50 | 86 SY | SIDEWALK, 19 LF SAW CUT |
| 23 | 604+00 | 610+00 | RT | US 50 | 6 SF | 1 TRUNCATED DOMES |
| LOCATION 5 - ROUTE T | | | | | | |
| 24 | 10+00 | 16+00 | LT/RT | ROUTE T | 86 SY | SIDEWALK, 51 LF SAW CUT |
| 24 | 10+00 | 16+00 | LT/RT | ROUTE T | 4 EA. | SIGN POST |
| 24 | 13+77 | | RT | ROUTE T | 1 EA. | 12" RCP PIPE |
| 24 | 10+00 | 16+00 | LT/RT | ROUTE T | 44 LF | CURB AND GUTTER, 4 LF SAWCUT |
| 25 | 16+00 | 24+00 | LT/RT | ROUTE T | 87 SY | SIDEWALK, 55 LF SAW CUT |
| 25 | 20+64 | 20+67 | LT | ROUTE T | 2 SY | FULL DEPTH ASPHALT PVMT, 15 LF SAW CUT |
| 25 | 23+90 | 24+05 | LT | ROUTE T | 21 SF | 3 TRUNCATED DOMES |
| 25 | 16+00 | 24+00 | LT/RT | ROUTE T | 8 EA. | SIGN POST |
| 25 | 16+00 | 24+00 | LT/RT | ROUTE T | 2 EA. | CPP 12" PIPE |
| 25 | 16+00 | 24+00 | LT | ROUTE T | 1 EA. | 10" VCP PIPE |
| 25 | 16+00 | 24+00 | LT/RT | ROUTE T | 30 LF | CURB AND GUTTER, 4 LF SAW CUT |
| PAY TOTAL | | | | | 1 LUMP SUM | |

REMOVAL OF IMPROVEMENTS
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED STAKING AND SURVEYING
1 LUMP SUM

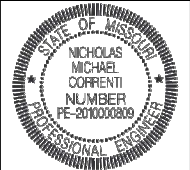
ADDITIONAL MOBILIZATION FOR SEEDING
5 EACH

| LOCATION | OFFSET | ROADWAY | REPLACE DAMAGED CONDUIT (LF) | REMARKS |
|-----------|--------|---------|------------------------------|-----------------------------|
| VARIOUS | LT/RT | VARIOUS | 50 | AS DIRECTED BY THE ENGINEER |
| PAY TOTAL | | | 50 | |

| PLAN SHEET NO. | STATION | STATION | OFFSET | ROADWAY | RELOCATE EXISTING SIGN (EA) | REMARKS |
|----------------------|---------|---------|--------|---------|-----------------------------|---------|
| LOCATION 5 - ROUTE T | | | | | | |
| 24 | 10+00 | 16+00 | LT/RT | ROUTE T | 3 | |
| 25 | 16+00 | 24+00 | LT/RT | ROUTE T | 5 | |
| PAY TOTAL | | | | | 8 | |

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SUMMARY OF QUANTITIES
SHEET 1 OF 6



N.M.C.
02/25/2025 3:03:53 PM
Nicholas Michael Correnti - Civil
MO PE-2010000809

DATE PREPARED
2/3/2025

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 3

COUNTY
VARIOUS

JOB NO.
JCD0076

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)



EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



N.M. Correnti
 DATE PREPARED
 2/3/2025

ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 3

COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

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

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

| SODDING | | | | | | |
|------------------------------------|---------|---------|--------|------------------|------------------------------------|-----------------------------|
| PLAN SHEET NO. | STATION | STATION | OFFSET | ROADWAY | TURF TYPE TALL FESCUE SODDING (SY) | REMARKS |
| LOCATION 1A - ROUTE WW | | | | | | |
| 1 | 104+00 | 108+00 | RT | RTE WW | 202 | |
| 2 | 114+39 | 116+78 | LT | RTE WW | 53 | |
| 4 | 169+46 | 170+50 | LT | RTE WW | 23 | |
| 5 | 180+00 | 185+00 | RT | RTE WW | 15 | |
| LOCATION 1B - ROUTE TT | | | | | | |
| 6B | 61+80 | 67+20 | LT/RT | RTE TT | 298 | |
| 6A | 67+20 | 72+20 | LT/RT | RTE TT | 165 | |
| 7A | 56+40 | 61+80 | LT/RT | RTE TT | 280 | |
| 7B | 51+00 | 56+40 | LT/RT | RTE TT | 288 | |
| 8 | 45+60 | 51+00 | LT | RTE TT | 32 | |
| 9 | 34+80 | 39+00 | LT | RTE TT | 44 | |
| 10 | 34+08 | 34+31 | RT | RTE TT | 7 | |
| 10 | 93+57 | 96+80 | LT/RT | RTE TT | 20 | |
| 11 | 96+80 | 100+00 | LT/RT | RTE TT | 16 | |
| LOCATION 1D - ROUTE E | | | | | | |
| 15 | 692+00 | 692+14 | RT | RTE E | 4 | |
| LOCATION 1E - ROUTE 763 @ ROUTE VV | | | | | | |
| 16 | 2+56 | 4+13 | RT | RTE 763 @ RTE VV | 17 | |
| LOCATION 1F - ROUTE B | | | | | | |
| 17 | 1192+82 | 1192+86 | LT | RTE B | 2 | |
| LOCATION 2 - ROUTE V | | | | | | |
| 18 | 43+68 | 44+42 | RT | RTE V | 4 | |
| LOCATION 3 - ROUTE J | | | | | | |
| 20 | 980+00 | 981+00 | LT/RT | RTE J | 6 | |
| LOCATION 4 - US 50 | | | | | | |
| 21 | 588+00 | 594+00 | LT | US 50 | 31 | |
| 22 | 594+00 | 604+50 | LT | US 50 | 63 | |
| 23 | 604+50 | 610+00 | LT/RT | US 50 | 206 | |
| LOCATION 5 - ROUTE T | | | | | | |
| 24 | 10+00 | 16+00 | LT/RT | RTE T | 7 | |
| 25 | 16+00 | 24+00 | LT/RT | RTE T | 8 | |
| MISCELLANEOUS | | | | | 268 | AS DIRECTED BY THE ENGINEER |
| PAY TOTAL | | | | | 2059 | |

| LINEAR GRADING FOR ADA FACILITIES | | | | | | | |
|-------------------------------------|---------|---------|--------|-----------|--------------|--------------|---------|
| PLAN SHEET NO. | STATION | STATION | OFFSET | ROADWAY | CLASS 1 (LF) | CLASS 2 (LF) | REMARKS |
| LOCATION 1A - ROUTE WW | | | | | | | |
| 1 | 104+00 | 108+00 | LT/RT | ROUTE WW | 23.7 | 58.5 | |
| 2 | 114+39 | 116+78 | LT | ROUTE WW | 239.1 | | |
| 4 | 169+46 | 170+50 | RT | ROUTE WW | 104.8 | | |
| 5 | 180+00 | 185+00 | LT/RT | ROUTE WW | 86.4 | | |
| LOCATION 1B - ROUTE TT | | | | | | | |
| 6B | 62+00 | 66+00 | LT/RT | ROUTE TT | 843.7 | | |
| 6A | 67+20 | 72+20 | LT | ROUTE TT | 493.5 | | |
| 7A | 56+40 | 61+80 | LT/RT | ROUTE TT | 670.8 | | |
| 7B | 51+00 | 56+40 | LT/RT | ROUTE TT | 719.5 | | |
| 8 | 45+60 | 51+00 | RT | ROUTE TT | 125.6 | | |
| 9 | 34+80 | 39+00 | RT | ROUTE TT | 293.8 | | |
| 10 | 34+08 | 34+31 | RT | ROUTE TT | 39.2 | | |
| 10 | 93+57 | 96+80 | LT/RT | ROUTE TT | 140.5 | | |
| 11 | 96+80 | 100+00 | LT/RT | ROUTE TT | 131.2 | | |
| LOCATION 1D - ROUTE E | | | | | | | |
| 15 | 691+95 | 692+38 | RT | ROUTE E | 56.8 | | |
| LOCATION 1E - ROUTE 763 AT ROUTE VV | | | | | | | |
| 16 | 10+00 | 15+00 | LT/RT | ROUTE 763 | 72.2 | | |
| LOCATION 1F - ROUTE B | | | | | | | |
| 17 | 1192+82 | 1192+86 | LT | ROUTE B | 5.1 | | |
| LOCATION 2 - ROUTE V | | | | | | | |
| 18 | 44+24 | 44+51 | LT | ROUTE V | 17.0 | | |
| LOCATION 3 - ROUTE J | | | | | | | |
| 20 | 980+00 | 981+00 | LT/RT | ROUTE J | 46.0 | | |
| LOCATION 4 - US 50 | | | | | | | |
| 21 | 588+00 | 594+00 | LT | US 50 | 248.1 | | |
| 22 | 594+00 | 604+50 | LT | US 50 | 557.0 | | |
| 23 | 604+50 | 610+00 | LT/RT | US 50 | 196.9 | | |
| LOCATION 5 - ROUTE T | | | | | | | |
| 24 | 10+00 | 16+00 | LT/RT | ROUTE T | 183.9 | | |
| 25 | 16+00 | 24+00 | LT/RT | ROUTE T | 200.2 | | |
| PAY TOTAL | | | | | 5456 | 59 | |

| PAVEMENT | | | | | | | | |
|------------------------|---------|---------|--------|---------|----------------------------------------------|------------------------|---------------------------|---------|
| PLAN SHEET NO. | STATION | STATION | OFFSET | ROADWAY | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY) | OPTIONAL PAVEMENT (SY) | PAVED APPROACH 8 IN. (SY) | REMARKS |
| LOCATION 1A - ROUTE WW | | | | | | | | |
| 4 | 169+91 | 170+03 | RT | RTE WW | 8.5 | 8.5 | | |
| LOCATION 1B - ROUTE TT | | | | | | | | |
| 8 | 47+73 | 48+43 | LT | RTE TT | 82.6 | | 82.6 | |
| 10 | 93+57 | 93+87 | RT | RTE TT | 10.9 | 10.9 | | |
| LOCATION 1D - ROUTE E | | | | | | | | |
| 15 | 691+95 | 692+38 | RT | RTE E | 83.9 | 83.9 | | |
| LOCATION 2 - ROUTE V | | | | | | | | |
| 19 | 53+78 | 53+93 | RT | RTE V | 16.2 | 16.2 | | |
| LOCATION 5 - ROUTE T | | | | | | | | |
| 25 | 20+64 | 20+67 | LT | RTE T | 1.5 | 1.5 | | |
| SUB TOTAL | | | | | 203.6 | 121.0 | 82.6 | |
| PAY TOTAL | | | | | * | 121.0 | 82.6 | |

*SEE PED FACILITIES TABLE FOR TYPE 5 AGG BASE PAY TOTAL

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SUMMARY OF QUANTITIES
 SHEET 2 OF 6



DATE PREPARED
2/3/2025

ROUTE VARIOUS STATE MO

DISTRICT CD SHEET NO. 3

COUNTY VARIOUS

JOB NO. JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

| ADJUST TO GRADE | | | | | | | |
|------------------------|---------|--------|---------|---------------|----------------|------------|---------|
| PLAN SHEET NO. | STATION | OFFSET | ROADWAY | PULL BOX (EA) | ADJ INLET (EA) | VALVE (EA) | REMARKS |
| LOCATION 1B - ROUTE TT | | | | | | | |
| 8 | 48+88 | RT | RTE TT | | | 1 | |
| 8 | 49+07 | RT | RTE TT | 1 | | | |
| 10 | 95+31 | RT | RTE TT | | 1 | | |
| LOCATION 4 - ROUTE 50 | | | | | | | |
| 21 | 593+25 | LT | US 50 | | 1 | | |
| 22 | 599+25 | LT | US 50 | | 1 | | |
| 23 | 608+10 | RT | US 50 | 1 | | | |
| LOCATION 5 - ROUTE T | | | | | | | |
| 24 | 13+86 | RT | RTE T | | | 1 | |
| PAY TOTAL | | | | 2 | 3 | 2 | |

| CURB & GUTTER | | | | | | | | | | |
|------------------------|---------|---------|--------|----------|----------------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------------------------|-----------------------------|-------------------|
| PLAN SHEET NO. | STATION | STATION | OFFSET | ROADWAY | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY) | CONC. CURB 6 IN. HEIGHT AND UNDER TYPE S (LF) | MOD. CURB 6 IN. TO 30 IN. TYPE S (LF) | INTEGRAL CURB, TYPE A 6 IN. HEIGHT AND UNDER (LF) | CURB AND GUTTER TYPE A (LF) | REMARKS |
| LOCATION 1A - ROUTE WW | | | | | | | | | | |
| 4 | 169+90 | 170+04 | RT | ROUTE WW | 1.5 | | 18.5 | | | 9 IN. TYPE S CURB |
| LOCATION 1B - ROUTE TT | | | | | | | | | | |
| 6B | 65+02 | 65+08 | RT | ROUTE TT | 5 | | | | 15.0 | 2.5' GUTTER |
| 10 | 96+19 | 96+38 | LT | ROUTE TT | 1.6 | 28.2 | | | | |
| 11 | 97+90 | 98+06 | RT | ROUTE TT | 1.0 | | | 18.4 | | |
| LOCATION 1D - ROUTE E | | | | | | | | | | |
| 15 | 691+95 | 692+38 | RT | ROUTE E | 12.9 | | | | 42.3 | 2' GUTTER |
| LOCATION 5 - ROUTE T | | | | | | | | | | |
| 24 | 13+41 | 13+46 | RT | ROUTE TT | 0.4 | 7 | | | | |
| SUB TOTAL | | | | | 22.4 | 35.2 | 18.5 | 18.4 | 57.3 | |
| PAY TOTAL | | | | | * | 35 | 19 | 18 | 57 | |

*SEE PED FACILITIES TABLE FOR TYPE 5 AGG BASE PAY TOTAL

| PAVEMENT MARKINGS | | | | | | | |
|-------------------------------------|---------|---------|-----------|------------------------------------------|---------------------------------------------------|---------------------------------------|---------|
| PLAN SHEET NO. | STATION | STATION | ROADWAY | PREFORMED THERMOPLASTIC 6 IN. WHITE (LF) | PERFORMED THERMOPLASTIC 30 IN. WITH MIDBLOCK (EA) | PAVEMENT MARKING REMOVAL SYMBOLS (EA) | REMARKS |
| LOCATION 1A - ROUTE WW | | | | | | | |
| 4 | 169+75 | 170+21 | RTE WW | 89 | | | |
| 5 | 181+85 | 184+00 | RTE WW | | 21 | | |
| LOCATION 1B - ROUTE TT | | | | | | | |
| 6B | 62+20 | 67+20 | RTE TT | | 60 | | |
| 7B | 51+00 | 56+40 | RTE TT | | 46 | | |
| LOCATION 1D - ROUTE E | | | | | | | |
| 15 | 691+95 | 692+38 | RTE E | 165 | | | |
| LOCATION 1E - ROUTE 763 AT ROUTE VV | | | | | | | |
| 16 | 10+00 | 15+00 | ROUTE 763 | | | 5 | |
| LOCATION 2 - ROUTE V | | | | | | | |
| 18 | 43+93 | 44+20 | RTE V | | 6 | | |
| 19 | 50+38 | 50+45 | RTE V | | 11 | | |
| 19 | 53+96 | 54+19 | RTE V | | 14 | | |
| 19 | 56+05 | 56+11 | RTE V | | 11 | | |
| 19 | 59+30 | 59+37 | RTE V | | 6 | | |
| LOCATION 3 - ROUTE J | | | | | | | |
| 20 | 980+72 | 980+78 | RTE J | | 5 | | |
| LOCATION 5 - ROUTE T | | | | | | | |
| 24 | 10+22 | 10+29 | RTE T | | 6 | | |
| 24 | 13+35 | 13+41 | RTE T | | 5 | | |
| 24 | 13+83 | 13+89 | RTE T | | 5 | | |
| 25 | 17+44 | 17+50 | RTE T | | 5 | | |
| 25 | 20+51 | 20+57 | RTE T | | 5 | | |
| 25 | 23+91 | 23+97 | RTE T | | 5 | | |
| PAY TOTAL | | | | 254 | 211 | 5 | |

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SUMMARY OF QUANTITIES
SHEET 3 OF 6

| TEMPORARY EROSION CONTROL | | | | | | | | | | |
|------------------------------------|---------|---------|------------------|-----------------|-----------------------|-----------------------|------|-----------------------|---------|--|
| PLAN SHEET NO. | STATION | STATION | ROADWAY | SILT FENCE (LF) | CURB INLET CHECK (EA) | ALTERNATE DITCH CHECK | | SEDIMENT REMOVAL (CY) | REMARKS | |
| | | | | | | SPACING (FT) | (LF) | | | |
| LOCATION 1A - ROUTE WW | | | | | | | | | | |
| 1 | 103+95 | 108+20 | RTE WW | 115 | | 75 | 150 | 16.2 | | |
| 2 | 114+12 | 117+15 | RTE WW | 514 | | 75 | 60 | 11.1 | | |
| 3 | 203+88 | 204+71 | RTE WW | 60 | | 75 | 20 | 2.6 | | |
| 4 | 168+97 | 170+88 | RTE WW | 300 | | 75 | 40 | 7.0 | | |
| 5 | 180+25 | 185+86 | RTE WW | 1000 | | 75 | 120 | 22.0 | | |
| LOCATION 1B - ROUTE TT | | | | | | | | | | |
| 6B | 61+80 | 67+20 | RTE TT | 1978 | 13 | 75 | 207 | 53.5 | | |
| 6A | 67+20 | 72+20 | RTE TT | 1008 | | 75 | | 10.1 | | |
| 7B | 52+07 | 54+01 | RTE TT | 1517 | 8 | 75 | 311 | 54.3 | | |
| 7A | 56+40 | 61+80 | RTE TT | 1342 | 1 | 75 | 310 | 45.4 | | |
| 8 | 47+17 | 49+22 | RTE TT | 300 | | | | 3.0 | | |
| 9 | 35+68 | 39+20 | RTE TT | 450 | 1 | 75 | 10 | 6.5 | | |
| 10 | 92+80 | 96+80 | RTE TT | 540 | 4 | | | 9.4 | | |
| 11 | 96+80 | 99+04 | RTE TT | 120 | 3 | | | 4.2 | | |
| LOCATION 1C - ROUTE 163 | | | | | | | | | | |
| 12 | 26+82 | 27+34 | RTE 163 | 50 | 1 | | | 1.5 | | |
| 13 | 42+68 | 43+26 | RTE 163 | 115 | 2 | | | 3.2 | | |
| 14 | 46+64 | 47+20 | RTE 163 | 50 | 2 | | | 2.5 | | |
| LOCATION 1D - ROUTE E | | | | | | | | | | |
| 15 | 692+55 | 692+98 | RTE E | 75 | | 75 | 20 | 2.8 | | |
| LOCATION 1E - ROUTE 763 @ ROUTE VV | | | | | | | | | | |
| 16 | 2+54 | 4+17 | RTE 763 @ RTE VV | 130 | | | | 1.3 | | |
| LOCATION 1F - ROUTE B | | | | | | | | | | |
| 17 | 1192+63 | 1193+53 | RTE B | 50 | | | | 0.5 | | |
| LOCATION 2 - ROUTE V | | | | | | | | | | |
| 18 | 44+23 | 45+03 | RTE V | 110 | | 75 | 10 | 2.1 | | |
| 19 | 44+05 | 62+00 | RTE V | 50 | 2 | | | 2.5 | | |
| LOCATION 3 - ROUTE J | | | | | | | | | | |
| 20 | 980+42 | 981+07 | RTE J | 120 | | 75 | 40 | 5.2 | | |
| LOCATION 4 - ROUTE 50 | | | | | | | | | | |
| 21 | 588+56 | 594+00 | US-50 | 530 | 1 | | | 6.3 | | |
| 22 | 594+00 | 604+50 | US-50 | 685 | 1 | 75 | 20 | 9.9 | | |
| 23 | 604+50 | 608+32 | US-50 | 175 | | 75 | 10 | 2.8 | | |
| LOCATION 5 - ROUTE T | | | | | | | | | | |
| 24 | 10+00 | 16+00 | RTE T | 300 | 2 | | | 5.0 | | |
| 25 | 16+00 | 24+00 | RTE T | 210 | 2 | | | 4.1 | | |
| PAY TOTAL | | | | 11894 | 43 | | 1328 | 295 | | |



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 Nicholas Michael Correnti - CIVIL
 MO PE-2010000309

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 2/3/2025

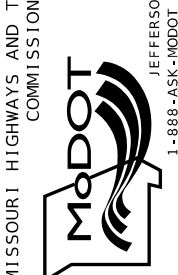
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| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 3 |

COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
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SUMMARY OF QUANTITIES
 SHEET 5 OF 6

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| HANDRAILING | | | | | | |
|------------------------|---------|---------|---------|--------|-----------------------------------------|---------|
| PLAN SHEET NO. | STATION | STATION | ROADWAY | OFFSET | SIDEWALK HAND RAILING WITHOUT BALUSTERS | REMARKS |
| | | | | | L.F. | |
| LOCATION 1B - ROUTE TT | | | | | | |
| 6 | 63+38 | 63+73 | RTE TT | RT | 40 | |
| LOCATION 3 - ROUTE J | | | | | | |
| 21 | 980+70 | 980+79 | RTE J | LT/RT | 111 | |
| PAY TOTAL | | | | | 151 | |

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N.M. Correnti
 Nicholas Michael Correnti - Civil
 MO PE-2010000809

DATE PREPARED
 2/3/2025

ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 4

COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

| DESCRIPTION | DATE |
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BRICKTON RD

APPROX. MODOT EX.RW

REMOVE & REPLACE EXISTING SIDEWALK

MATCH EXISTING

105

EX. SIDEWALK (UIP)

SEE DETAIL 1A-"D"

HIGHWAY 63 (EXIT RAMP)

NEW TRUNCATED DOMES

MATCH EXISTING

EX. CUT-THRU

E BROADWAY (ROUTE WW)

APPROX. EX C E BROADWAY

APPROX-SLOPE LIMIT
 NEW SIDEWALK
 UFL = 726.58'

MATCH EXISTING

LFL = 723.76'

EX SIGN (UIP)

NEW 42" 15" GROUP C PIPE AND 2 FES

EX. LIGHT POLE (UIP)

APPROX-SLOPE LIMIT

EX. GUARDRAIL (UIP)

EX POWER UTILITY (UIP)

EX POWER UTILITY (UIP)

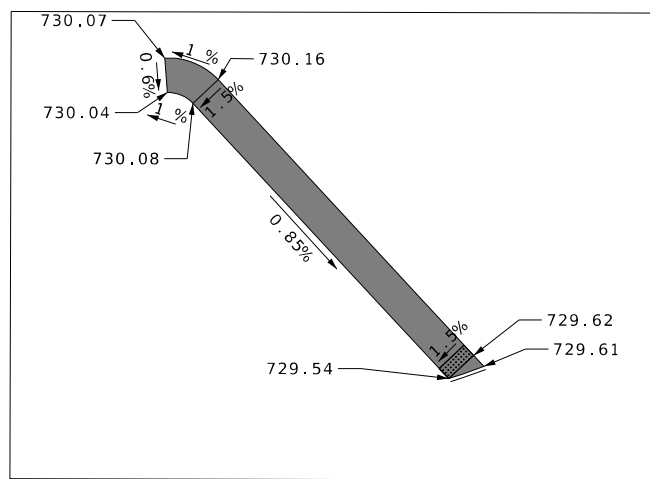
(ENTRANCE RAMP) HIGHWAY 63

MATCH EXISTING
 EX. SIDEWALK (UIP)

17.50'

6'

NEW SIDEWALK



DETAIL 1A-"D"

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.

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL



SCALE



PLAN SHEET
 LOCATION 1A - COLUMBIA
 ROUTE WW
 SHEET 1 OF 25

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALL SIDEWALKS SHOULD BE REMOVED TO THE NEAREST JOINT. IN LOCATIONS WITH NO JOINT, THE CONTRACTOR SHALL PROVIDE A SAWCUT WITH NO DIRECT PAY.

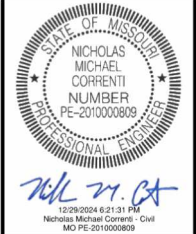
NOTES:

* SIDEWALK RUNNING SLOPE TO MATCH EXISTING

** RAMP RUNNING SLOPE TO MEET EXISTING GROUND

NO DIRECT PAYMENT FOR CLEARING AND GRUBBING

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12/29/2024

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|----------------|-----------|
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 5 |

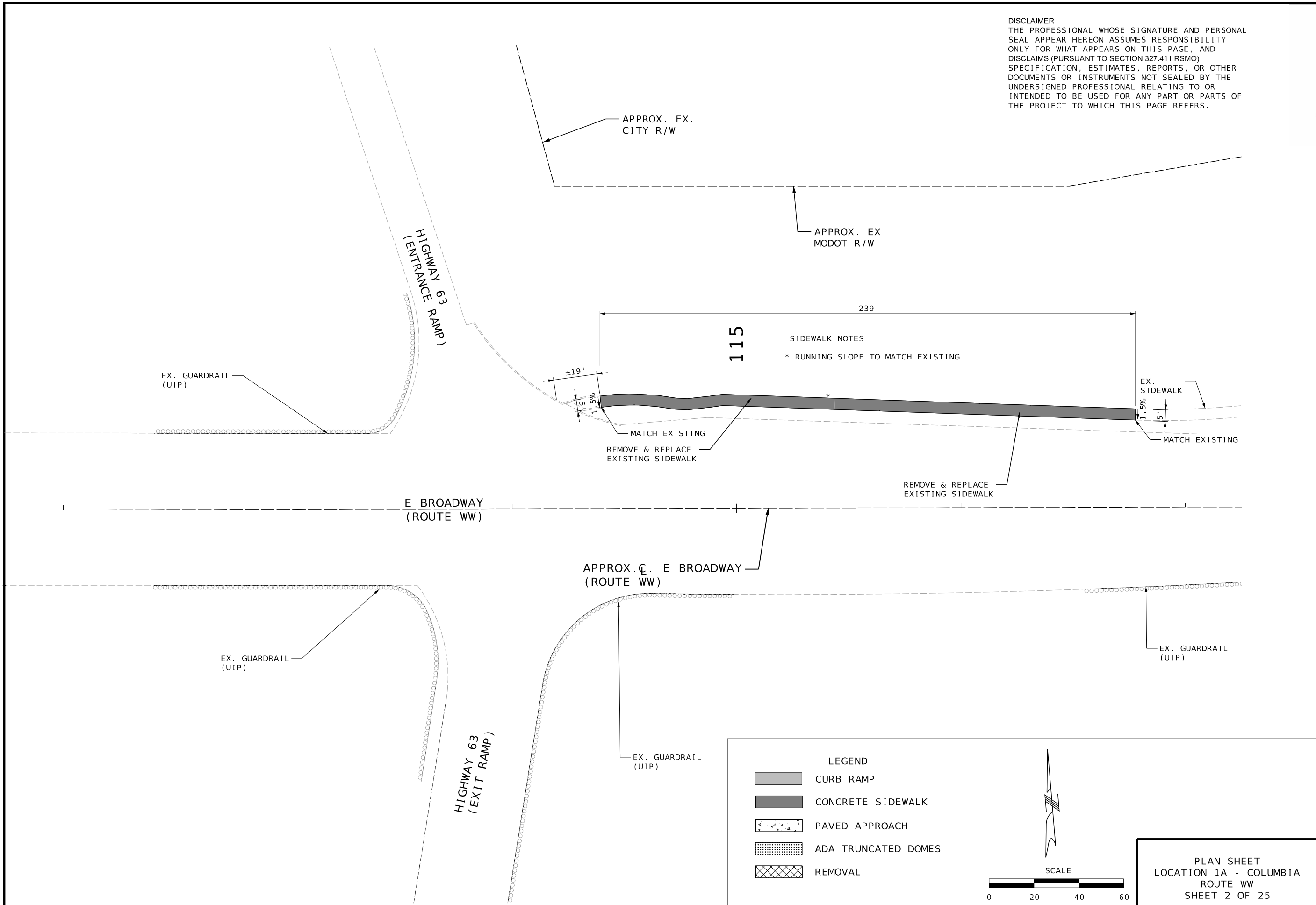
COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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LEGEND

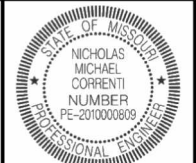
- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE

PLAN SHEET
 LOCATION 1A - COLUMBIA
 ROUTE WW
 SHEET 2 OF 25

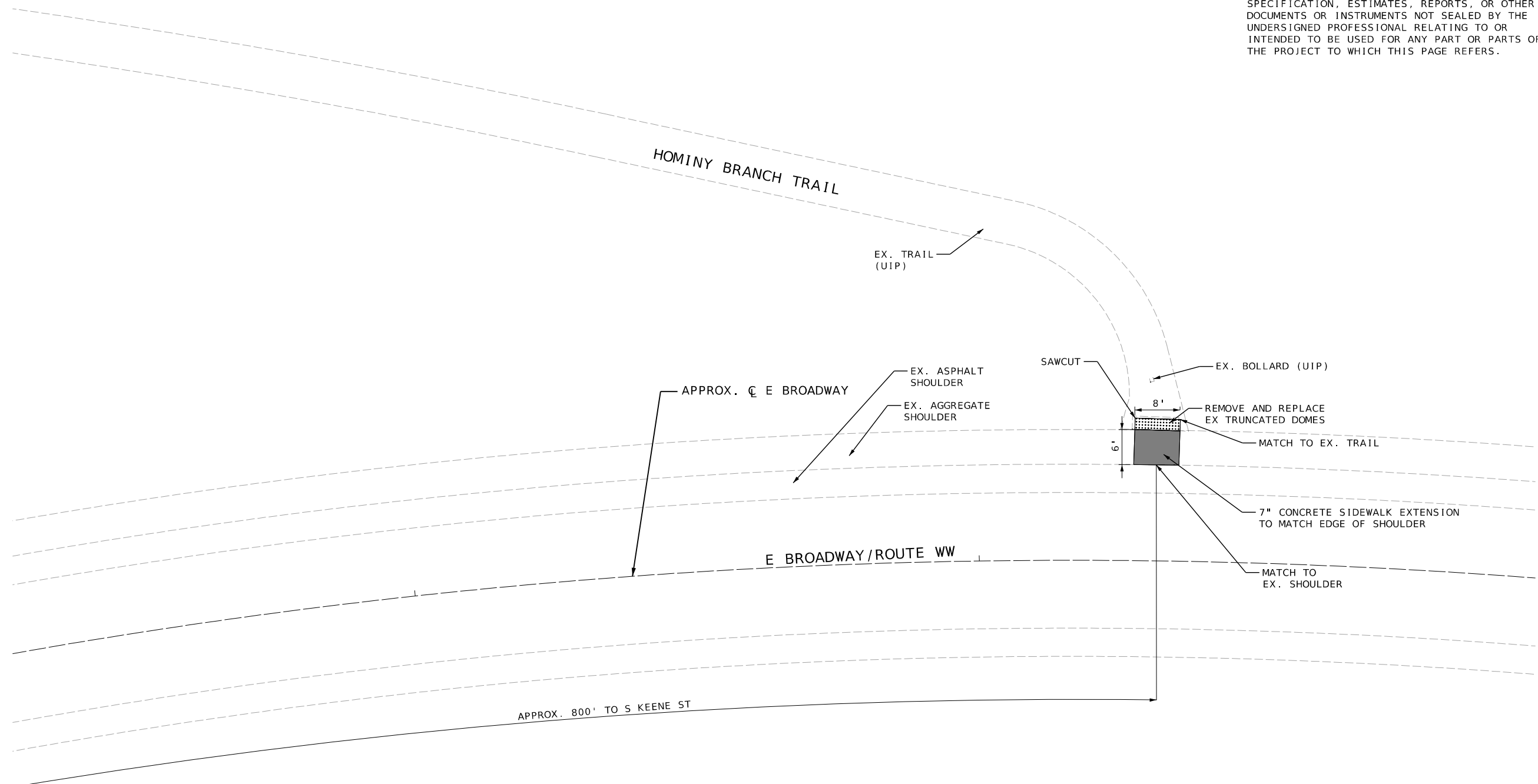
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 MO PE-2010000809

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|---------------|-----------|------------|----|
| DATE PREPARED | | 12/29/2024 | |
| ROUTE | STATE | VARIOUS | MO |
| DISTRICT | SHEET NO. | CD | 6 |
| COUNTY | | | |
| VARIOUS | | | |
| JOB NO. | | | |
| JCD0076 | | | |
| CONTRACT ID. | | | |
| PROJECT NO. | | | |
| BRIDGE NO. | | | |



APPROX. 800' TO S KEENE ST

PI 203+52.52
 PC 200+00.00
 PT 206+81.18
 Δ 36°23'46.0" (RT)
 D 5°20'35.3"
 L 681.18' (ARC)
 T 352.52'
 R 1,072.33'

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

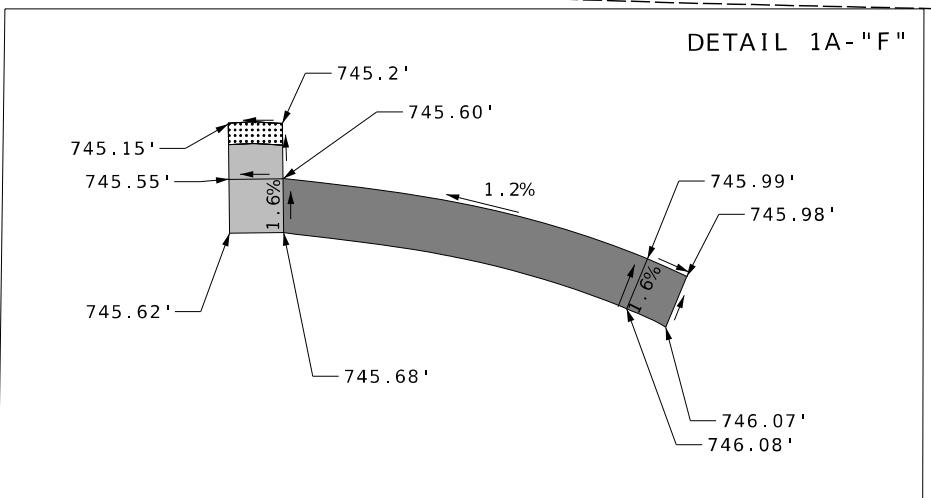
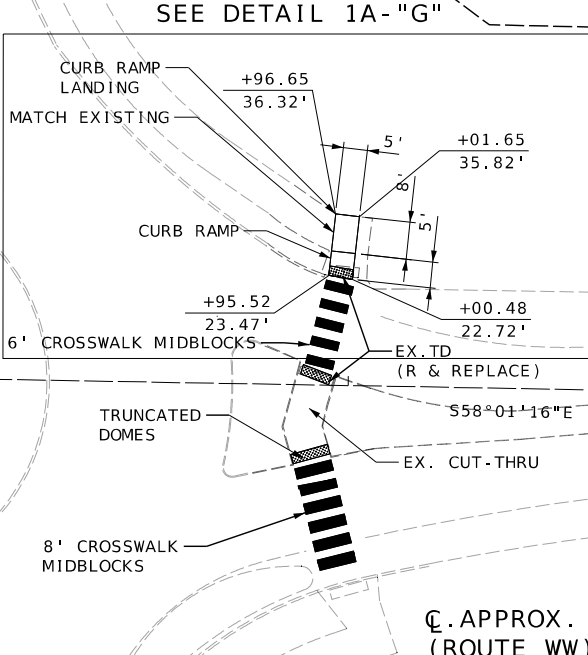
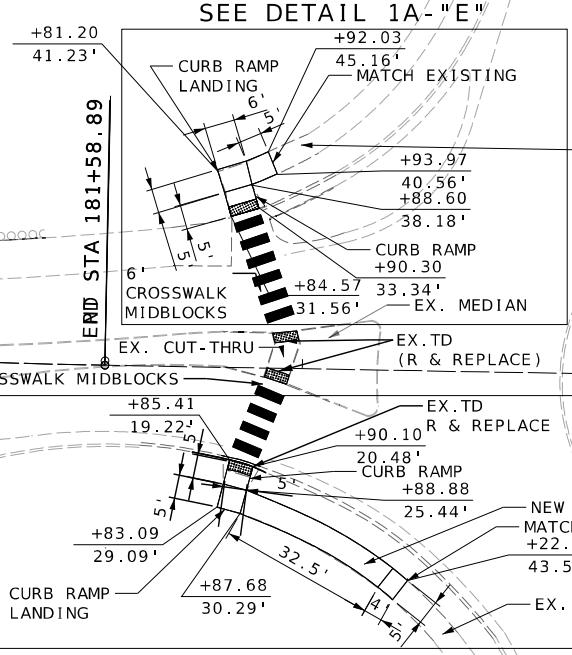
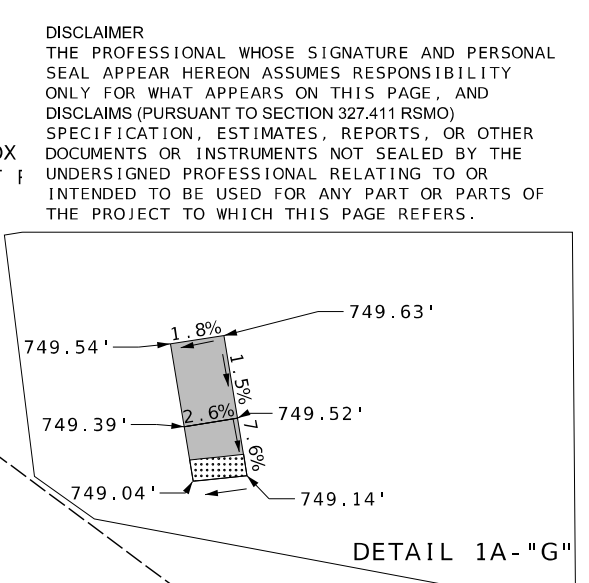
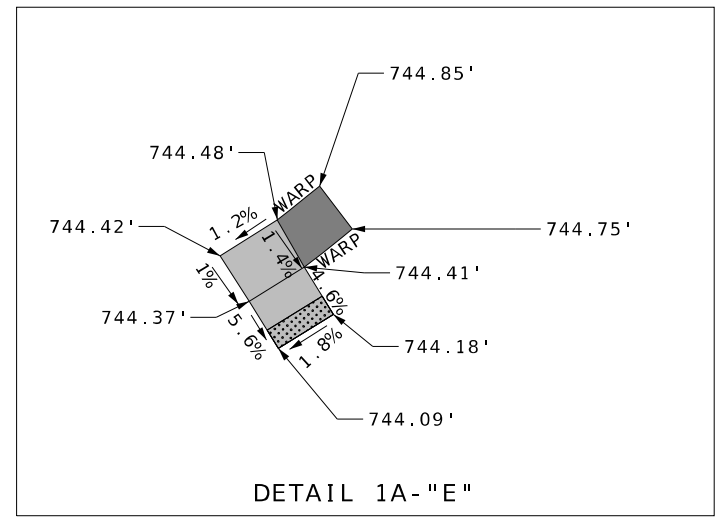
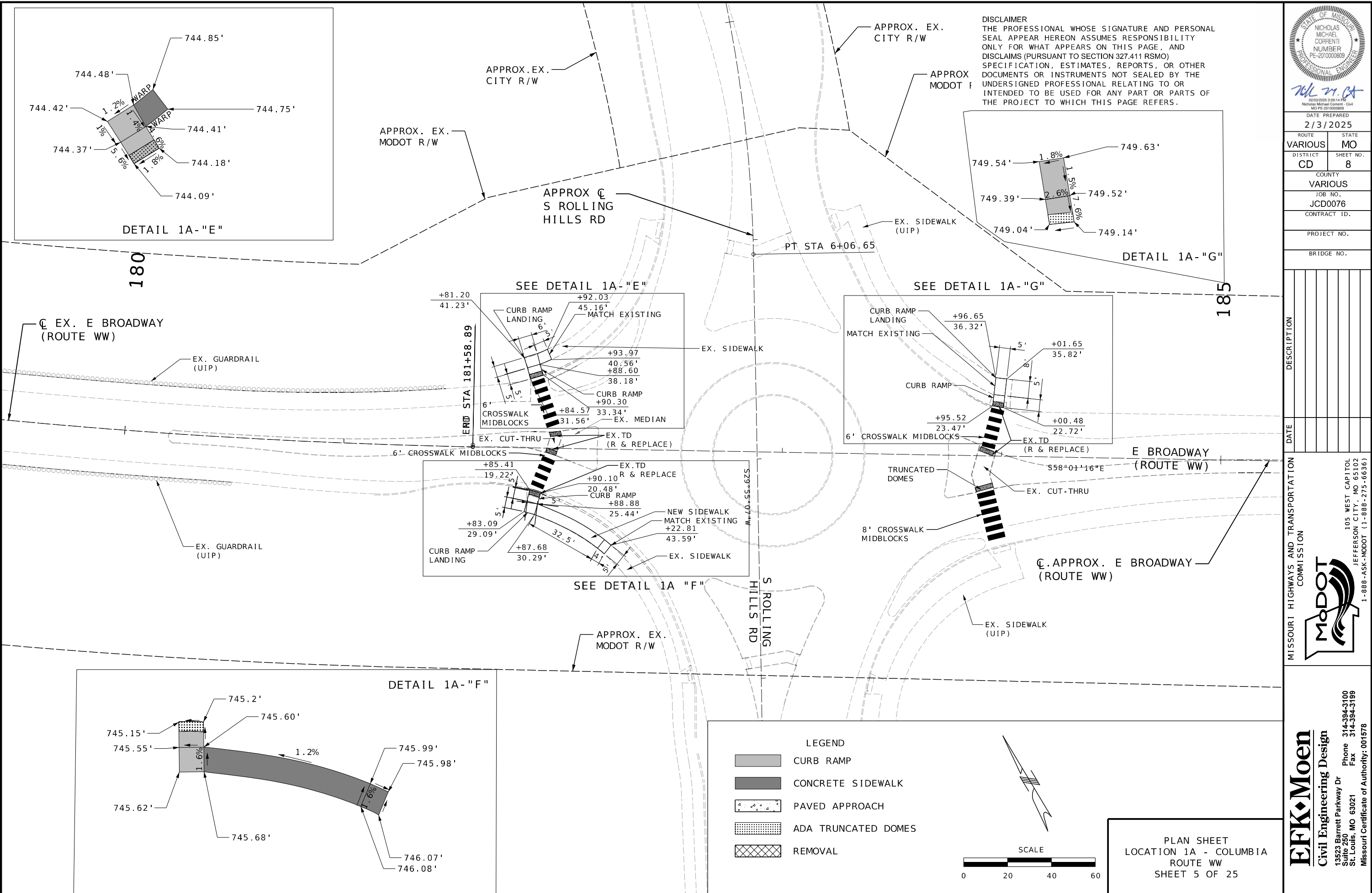
SCALE
 0 10 20 30

PLAN SHEET
 LOCATION 1A - COLUMBIA
 ROUTE WW
 SHEET 3 OF 25

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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| DATE PREPARED | |
| 2/3/2025 | |
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 8 |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

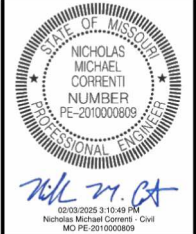
SCALE
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PLAN SHEET
 LOCATION 1A - COLUMBIA
 ROUTE WW
 SHEET 5 OF 25

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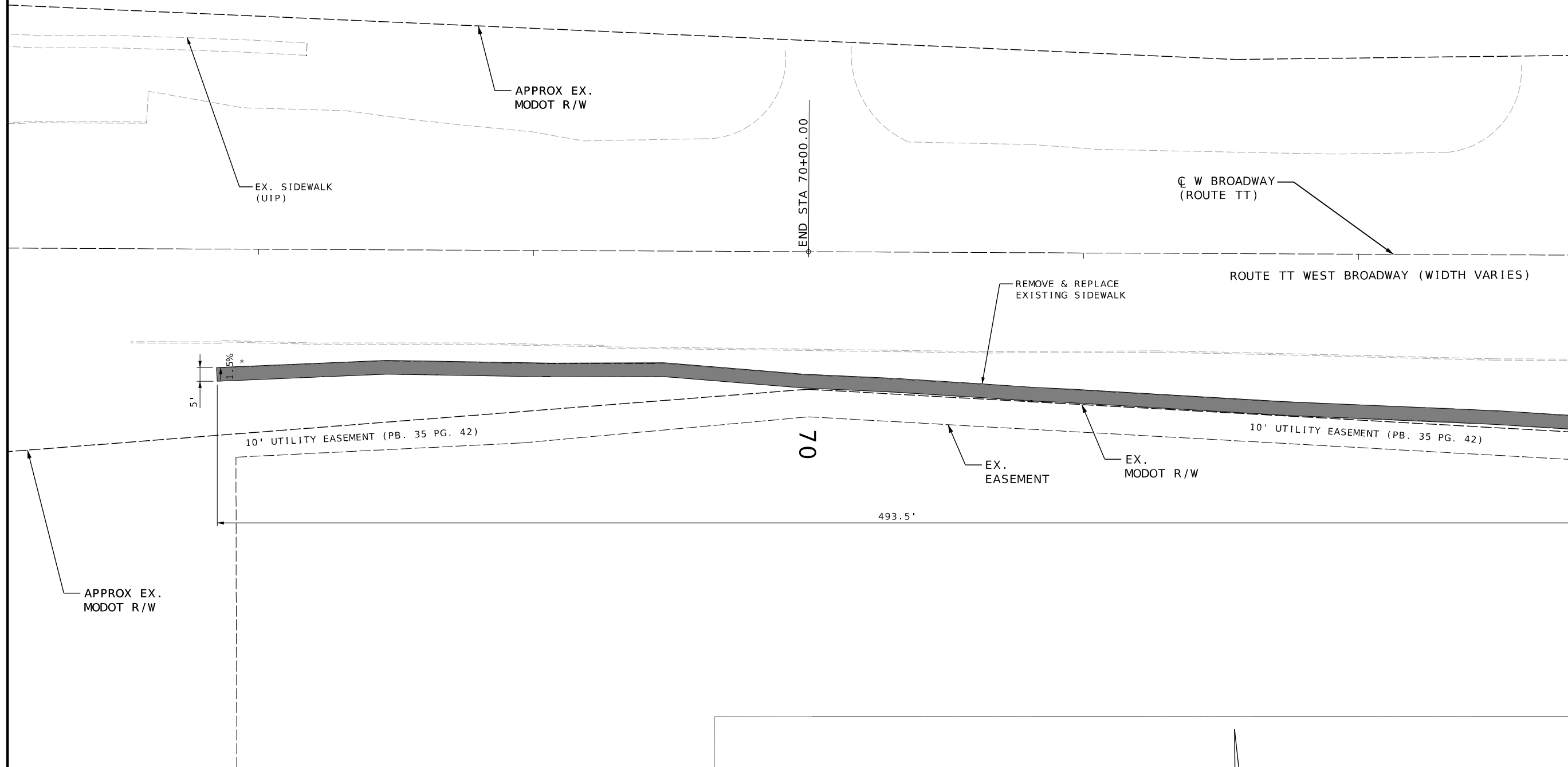
* RUNNING SLOPE TO MATCH EXISTING

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| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 9A |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



MATCHLINE STA. 67+20
SEE SHEET 9B

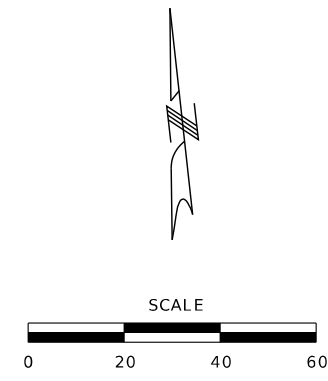
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- LEGEND
- CURB RAMP
 - CONCRETE SIDEWALK
 - PAVED APPROACH
 - ADA TRUNCATED DOMES
 - REMOVAL



PLAN SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 6A OF 25

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Nicholas Michael Correnti, Civil
MO PE-201000809

DATE PREPARED
2/3/2025

ROUTE VARIOUS STATE MO

DISTRICT CD SHEET NO. 9B

COUNTY VARIOUS

JOB NO. JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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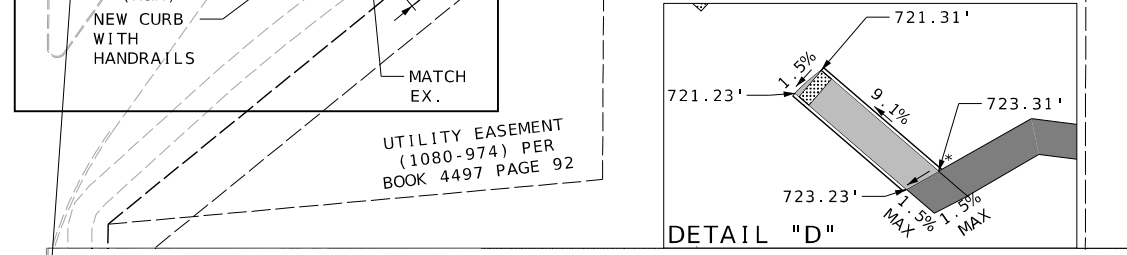
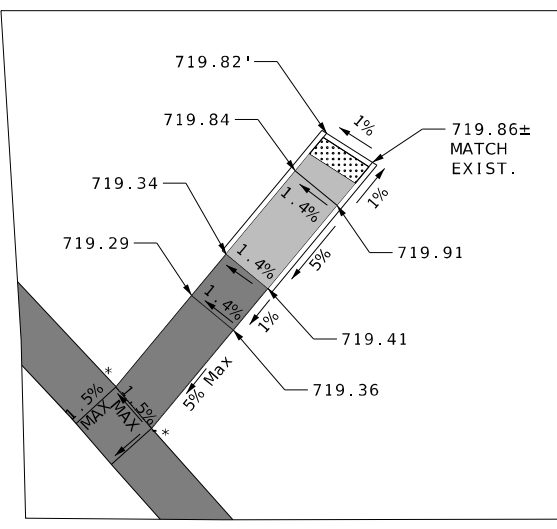
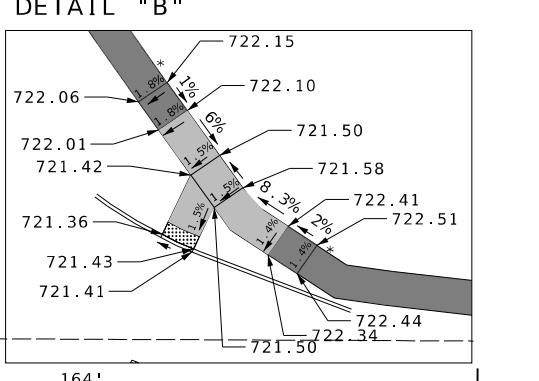
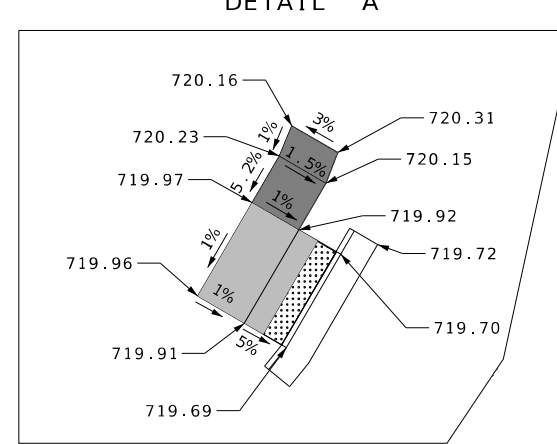
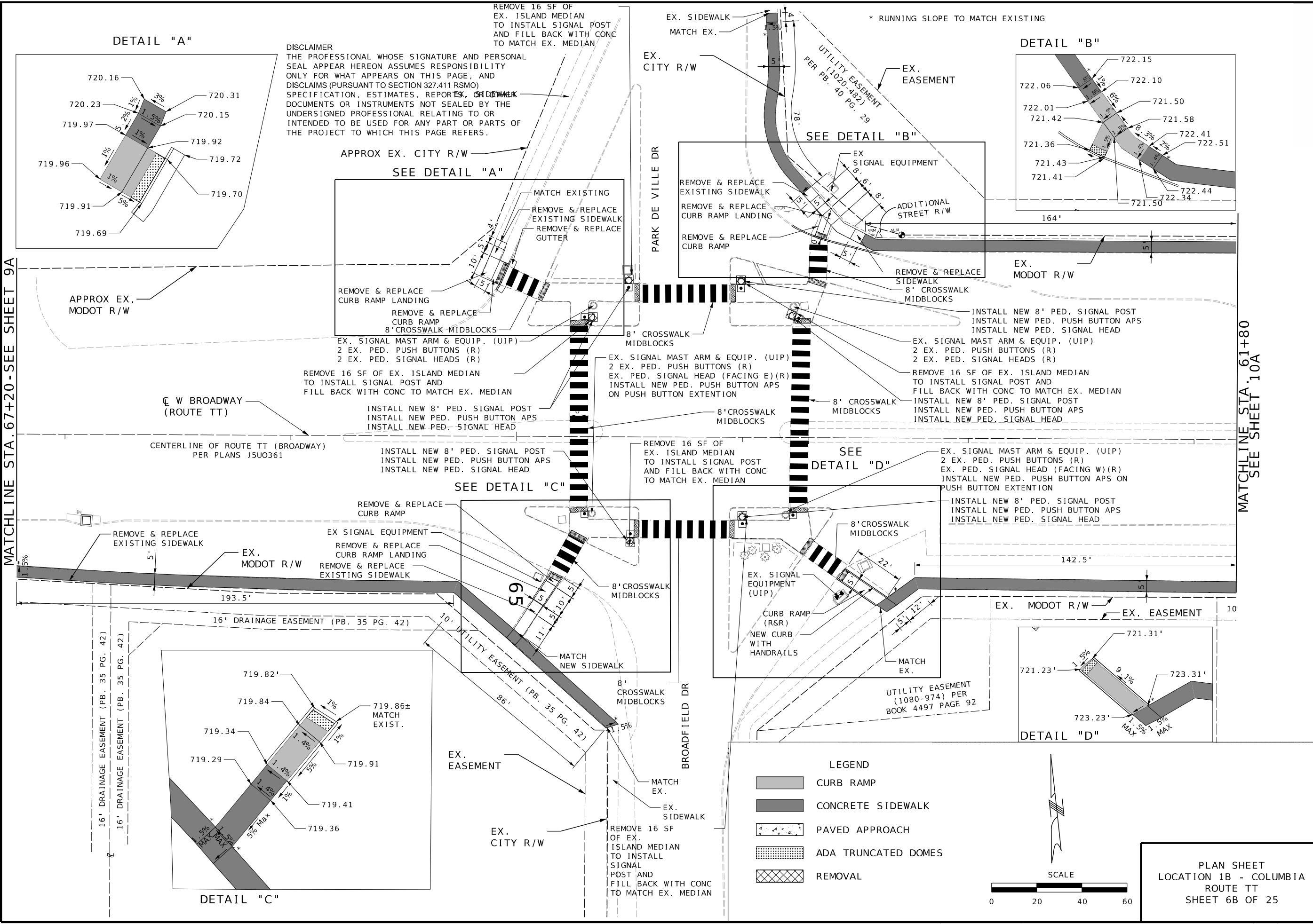
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Civil Engineering Design

13523 Barrett Parkway Dr Phone 314-394-3100

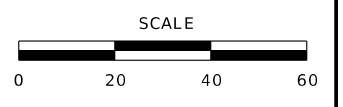
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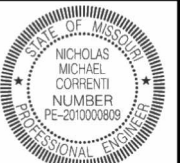


LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL



PLAN SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 6B OF 25



Nick M. Correnti
02/03/2025 3:12:15 PM
Nicholas Michael Correnti - Civil
MO PE-2010000809

DATE PREPARED
2/3/2025

ROUTE VARIOUS STATE MO

DISTRICT CD SHEET NO. 10A

COUNTY VARIOUS

JOB NO. JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
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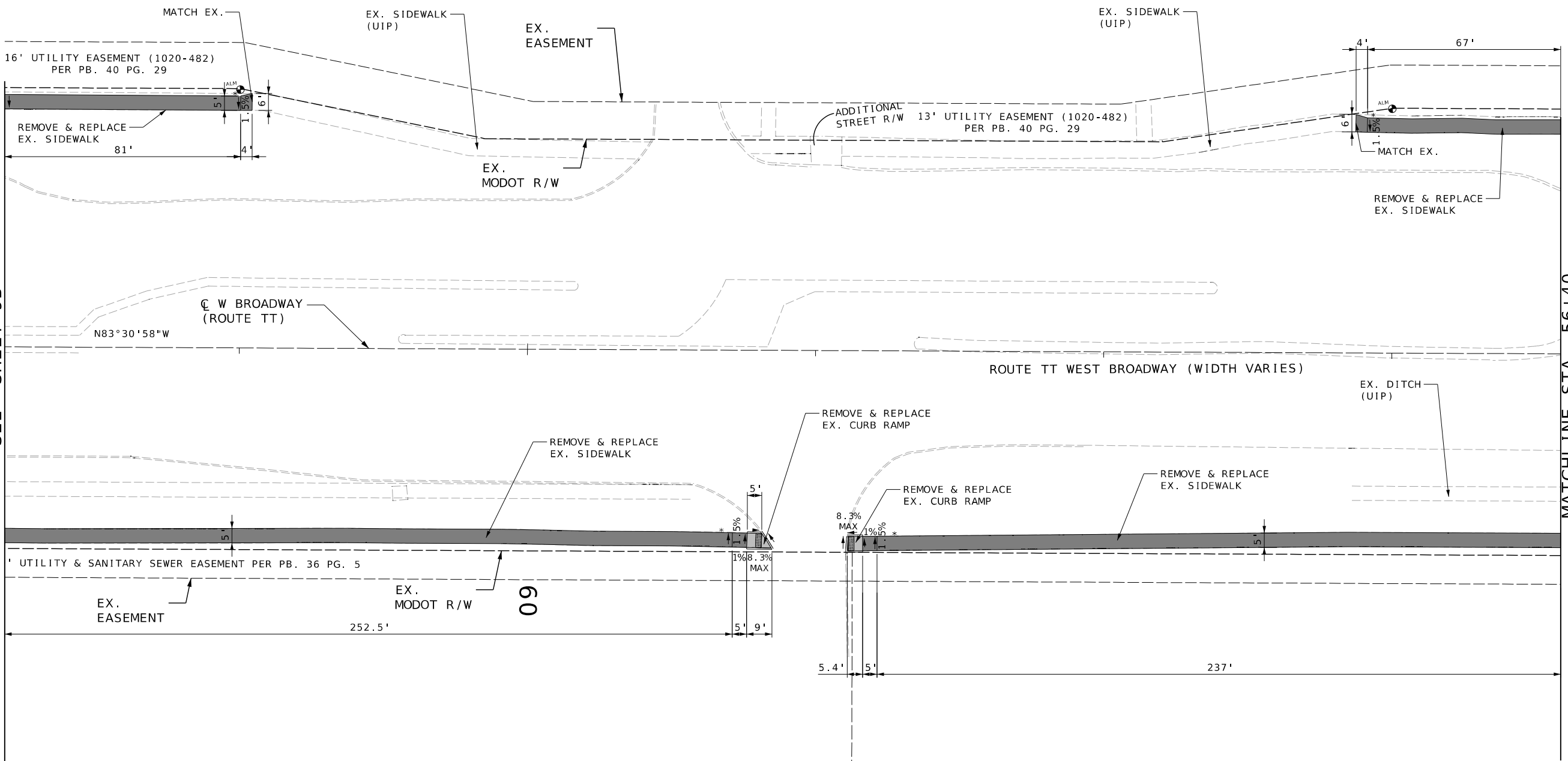
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Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

MATCHLINE STA. 61+80
SEE SHEET 9B



MATCHLINE STA. 56+40
SEE SHEET 10B

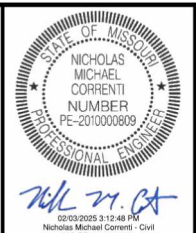
LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE

PLAN SHEET
LOCATION 1A - COLUMBIA
ROUTE TT
SHEET 7A OF 25

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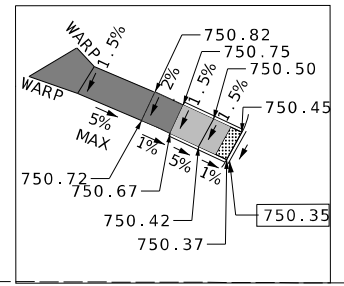
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| DATE PREPARED | 2/3/2025 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 10B |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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| DESCRIPTION | |
| DATE | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

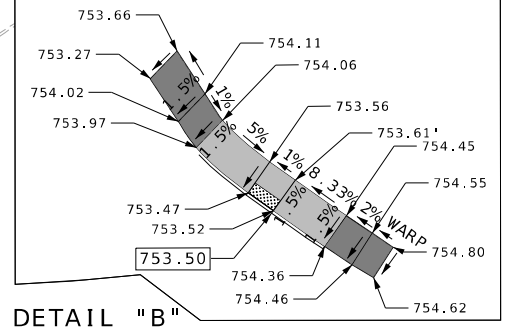
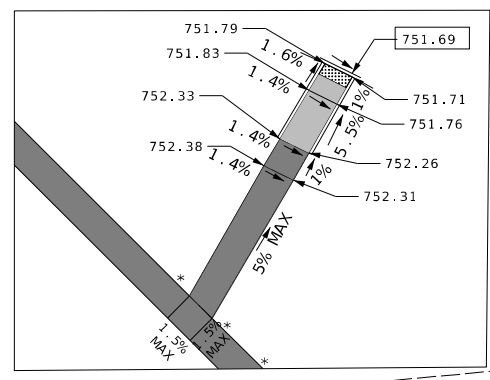
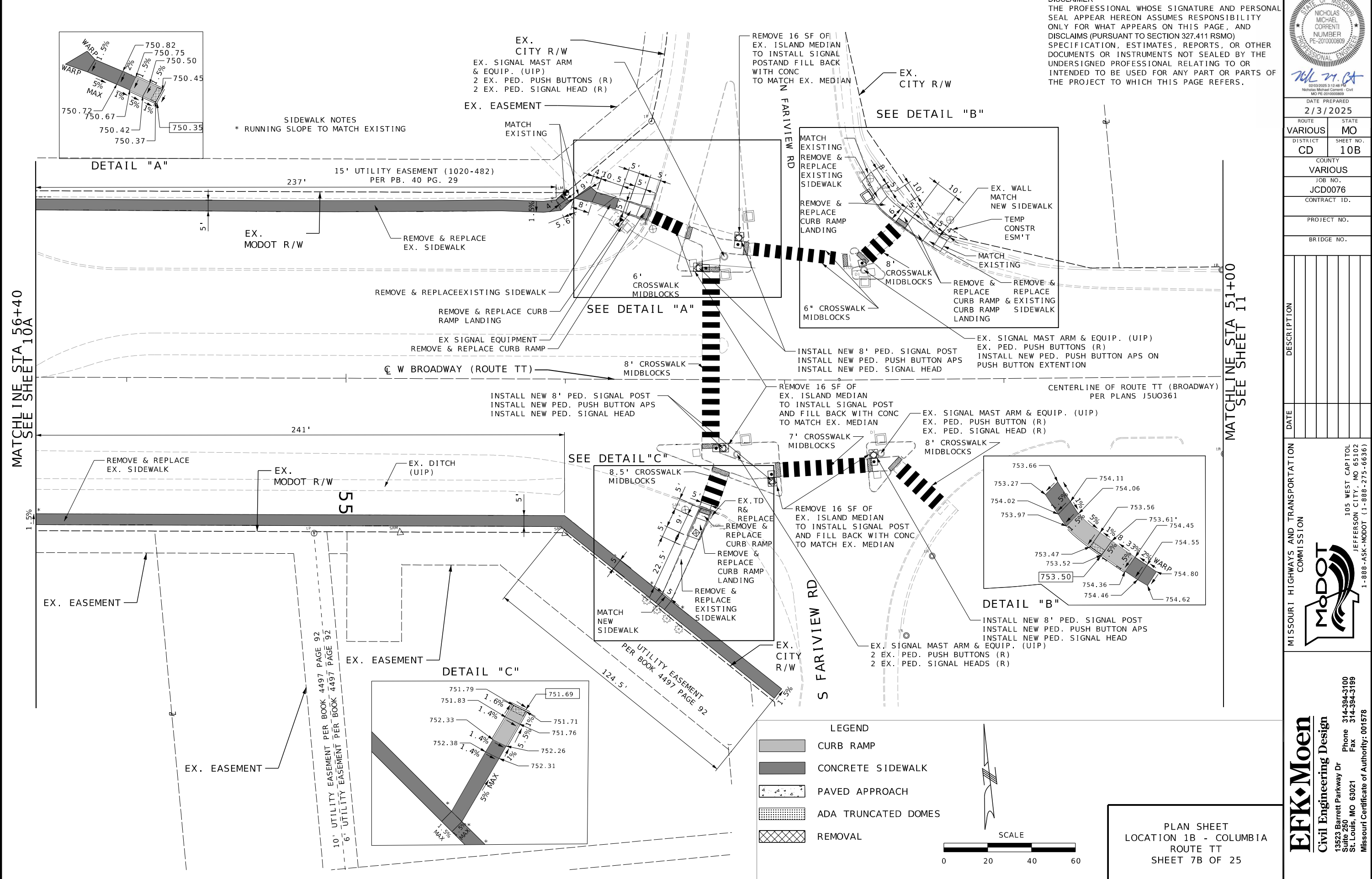
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



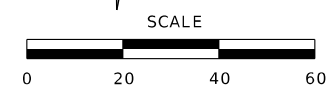
SIDWALK NOTES
* RUNNING SLOPE TO MATCH EXISTING

MATCHLINE STA 56+40 SEE SHEET 10A

MATCHLINE STA 51+00 SEE SHEET 11

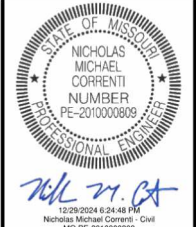


- LEGEND
- CURB RAMP
 - CONCRETE SIDEWALK
 - PAVED APPROACH
 - ADA TRUNCATED DOMES
 - REMOVAL

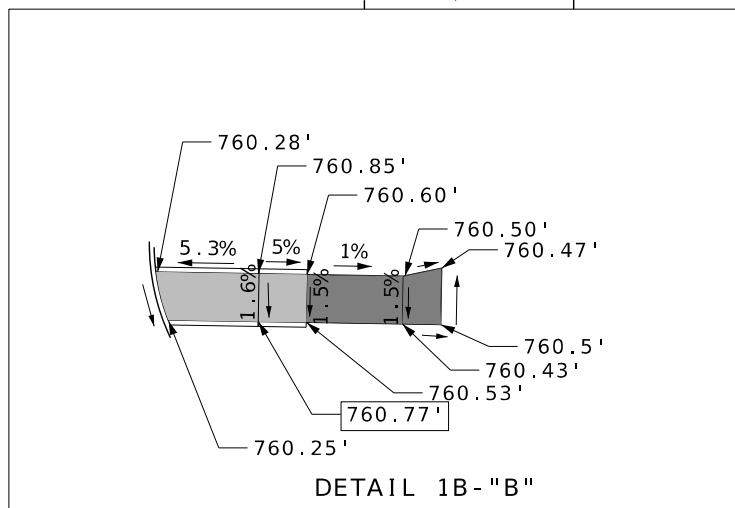
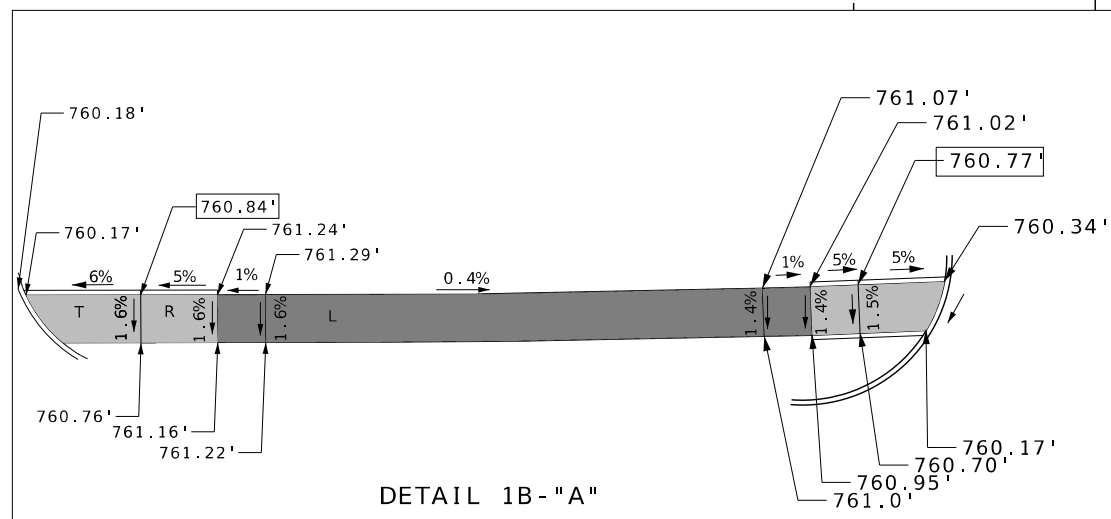
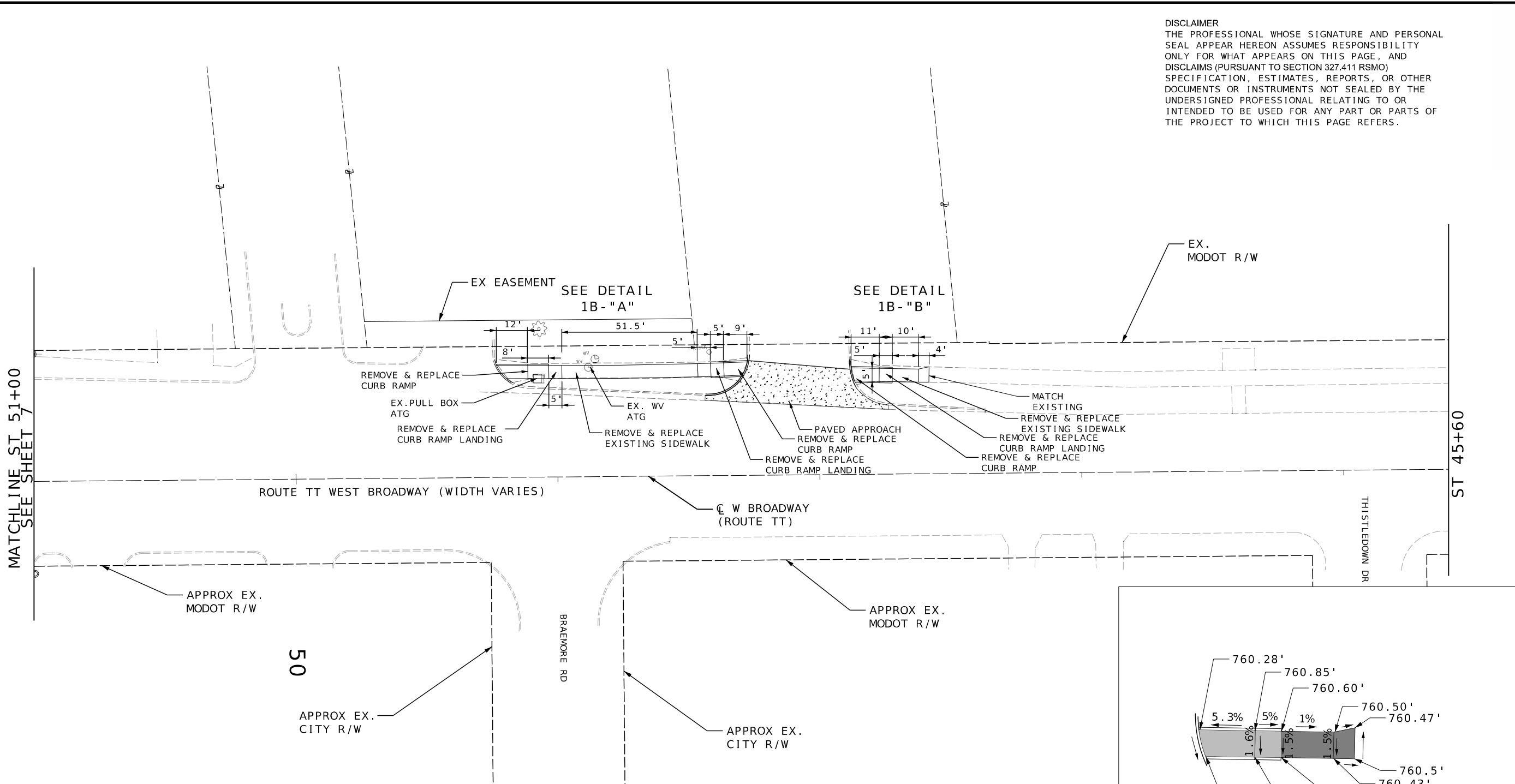


PLAN SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 7B OF 25

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| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 11 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE
 0 20 40 60

PLAN SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 8 OF 25

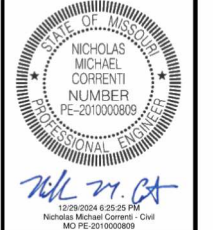
| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

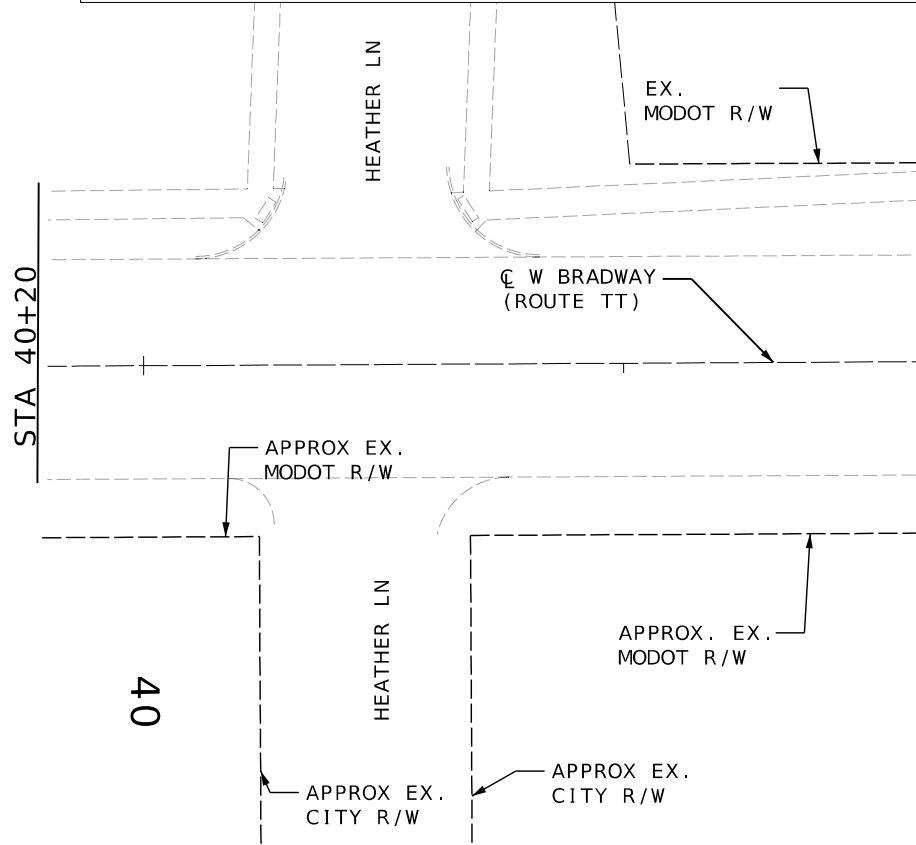
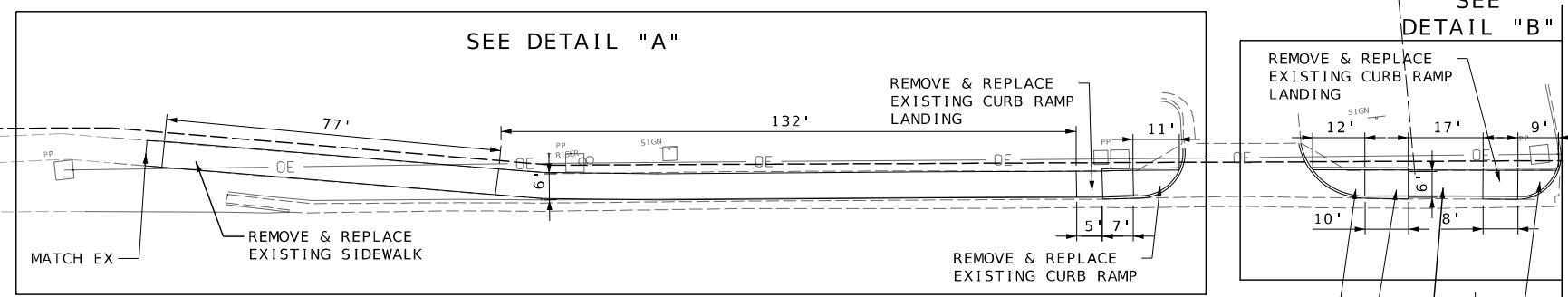
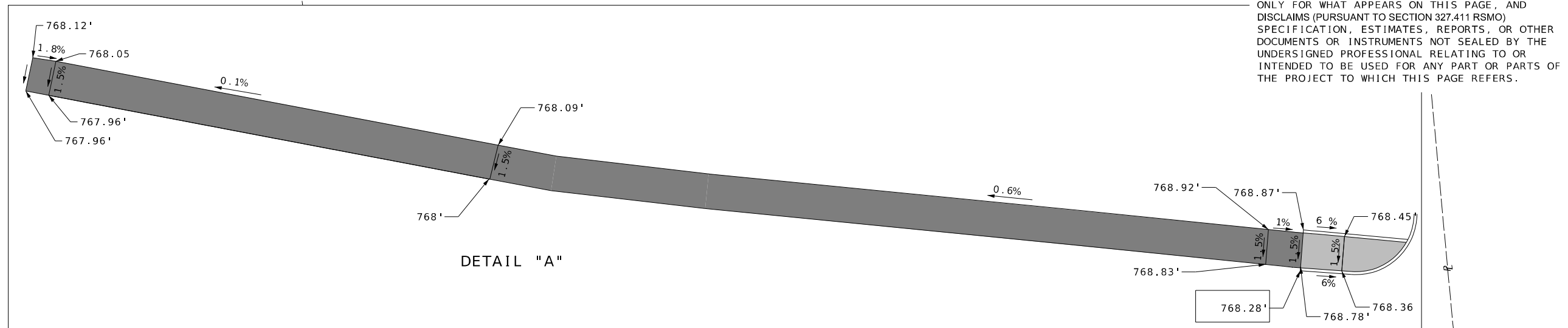
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12/29/2024

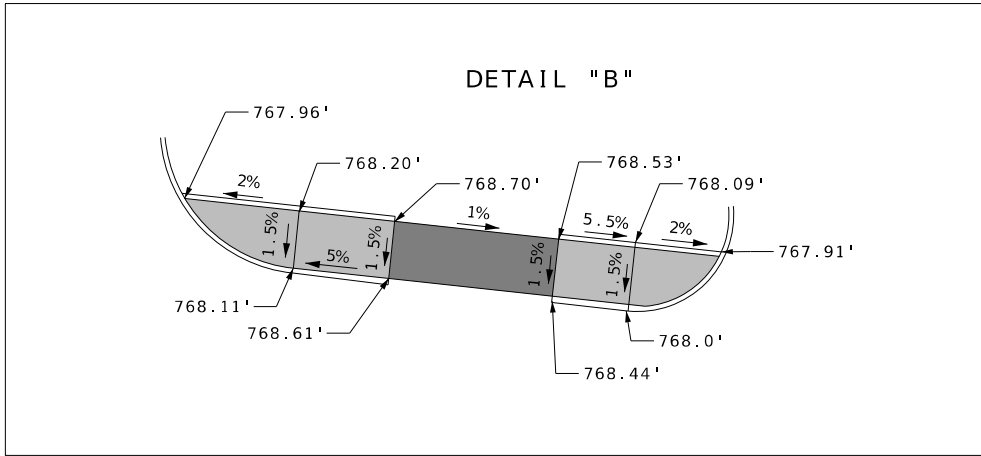
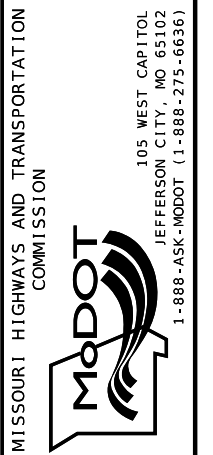
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| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 12 |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



SEE DETAIL "A" and SEE DETAIL "B"

| DATE | DESCRIPTION |
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MATCHLINE STA 34+80
SEE SHEET 10



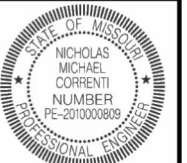
LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE
0 20 40 60

PLAN SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 9 OF 25

EFK Moen
 Civil Engineering Design
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 Suite 250
 St. Louis, MO 63021
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Nick M. Correnti
 12/29/2024 6:26:02 PM
 Nicholas Michael Correnti - Civil
 MO PE-2010000809

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|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 13 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |

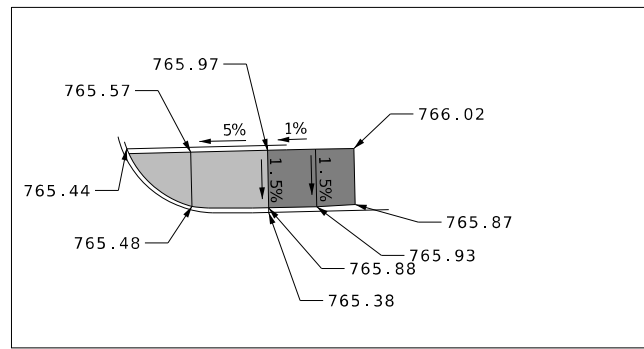
PROJECT NO.
 BRIDGE NO.

| DATE | DESCRIPTION |
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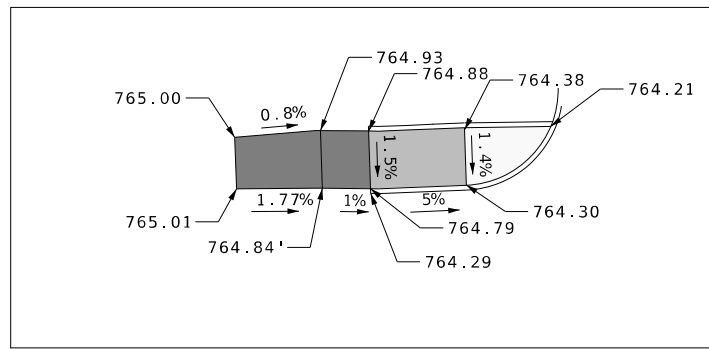
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

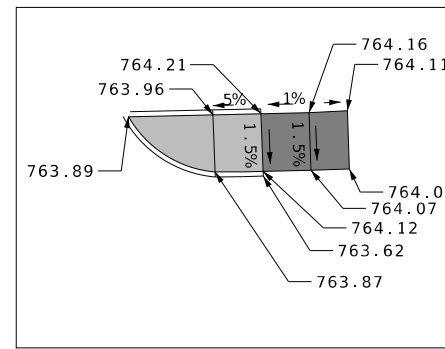
EFK Moen
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 Suite 250
 St. Louis, MO 63021
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 Fax 314-394-3199
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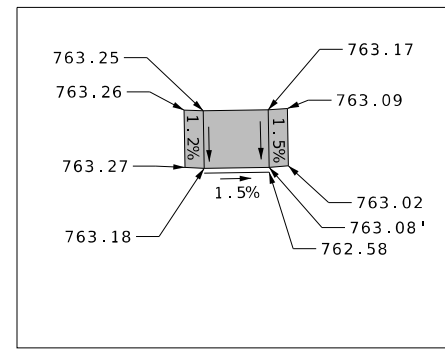
DETAIL "A"



DETAIL "B"



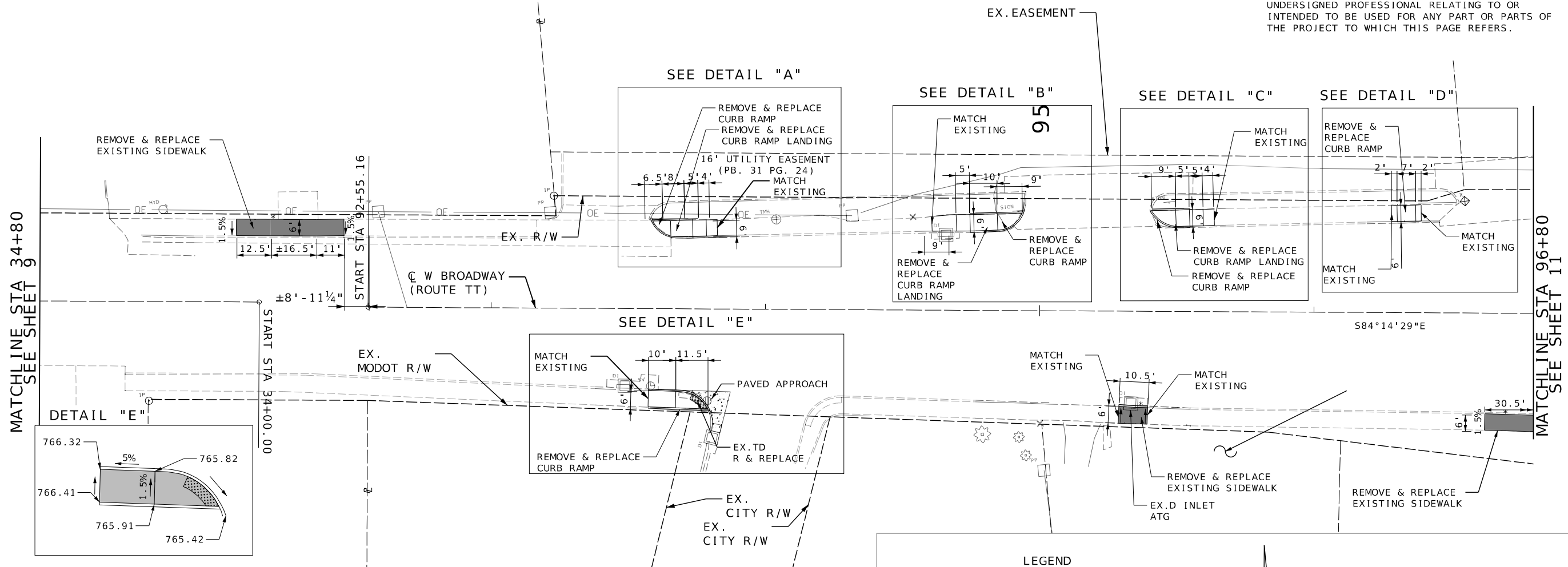
DETAIL "C"



DETAIL "D"

* RUNNING SLOPE TO MATCH EXISTING SIDEWALK

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MATCHLINE STA 34+80
 SEE SHEET 9

MATCHLINE STA 96+80
 SEE SHEET 11

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE
 0 20 40 60

PLAN SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 10 OF 25

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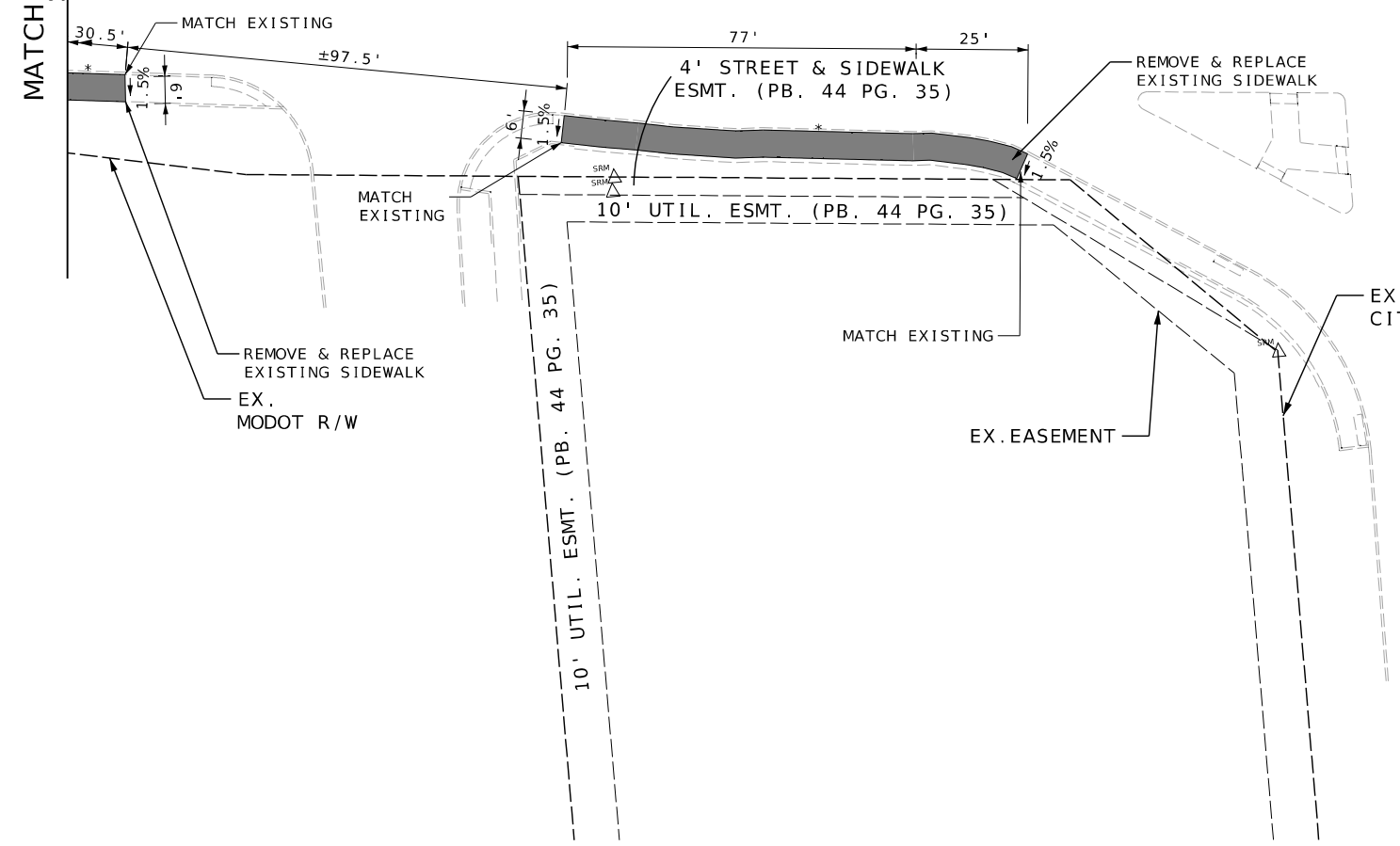
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 Nicholas Michael Correnti - Civil
 MO PE-2010000809

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| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 14 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

MATCHLINE STA 96+80.00
SEE SHEET 10

HWY 740
STADIUM BLVD
100
END STA 100+00.00

* RUNNING SLOPE TO MATCH EXISTING



LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE

PLAN SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 11 OF 25

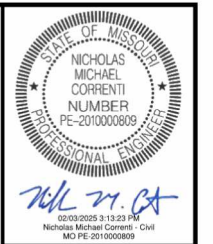
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MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

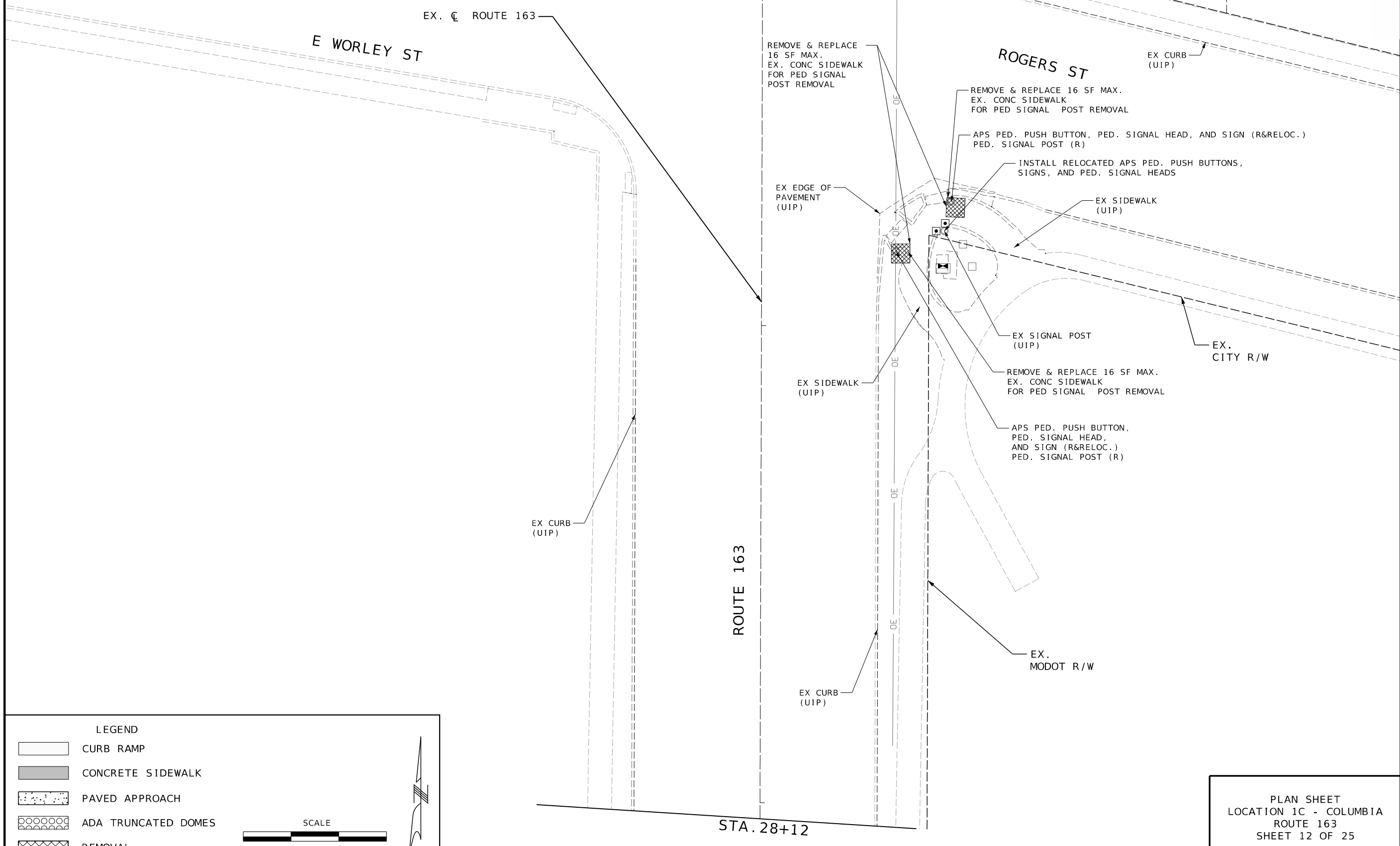
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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|---------------------------|-----------------|
| DATE PREPARED 2/3/2025 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 15 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



| DATE | DESCRIPTION |
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

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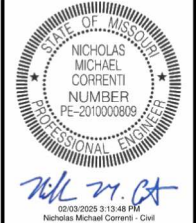
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-  PAVED APPROACH
-  ADA TRUNCATED DOMES
-  REMOVAL

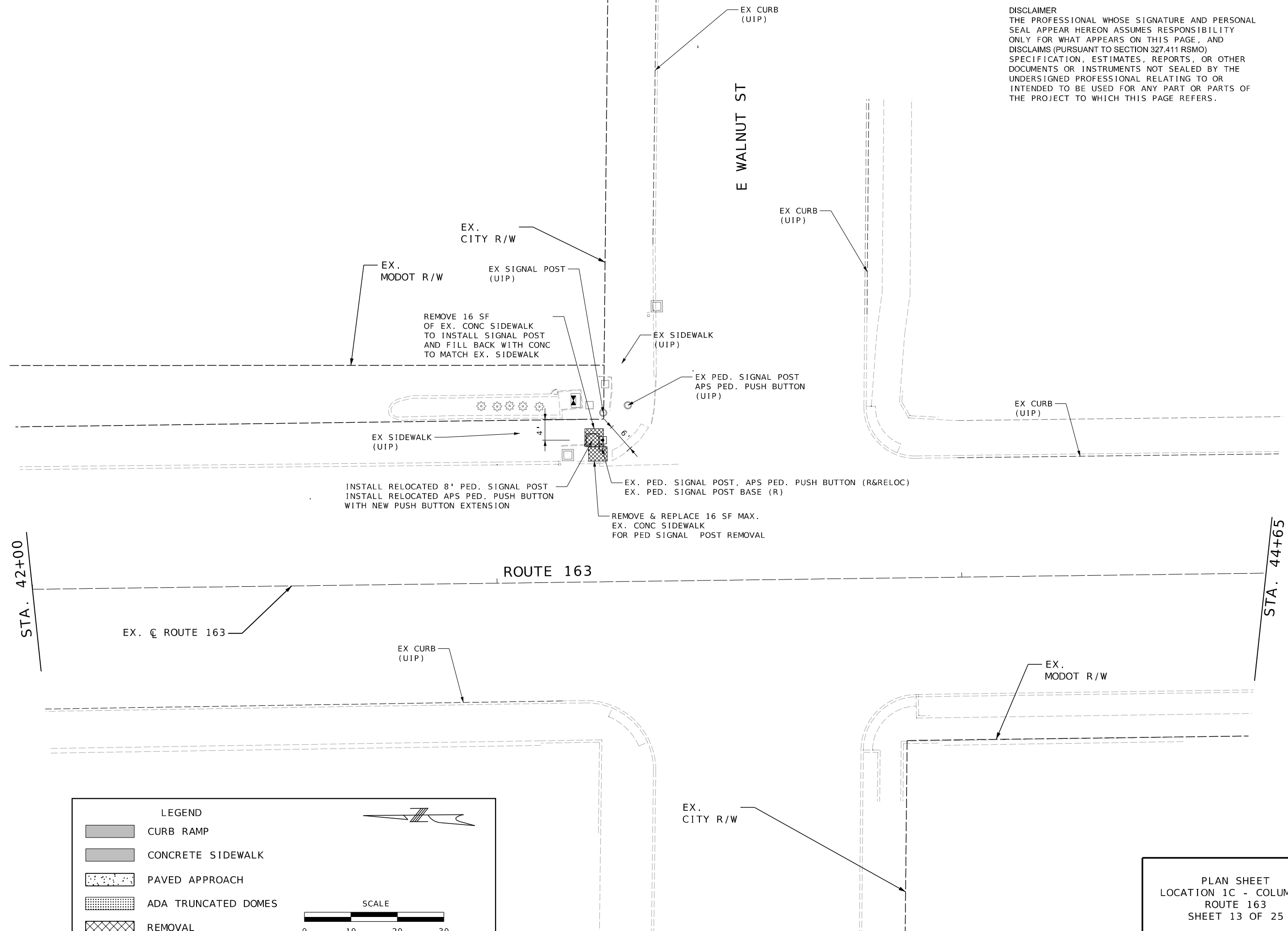
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DATE PREPARED
 2/3/2025
 ROUTE VARIOUS STATE MO
 DISTRICT CD SHEET NO. 16
 COUNTY VARIOUS
 JOB NO. JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.



LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE

PLAN SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 13 OF 25



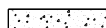
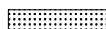

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

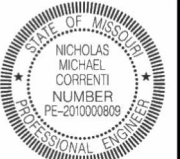
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 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

LEGEND

-  CURB RAMP
-  CONCRETE SIDEWALK
-  PAVED APPROACH
-  ADA TRUNCATED DOMES
-  REMOVAL

SCALE
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N.M. Correnti
02/03/2025 3:14:21 PM
Nicholas Michael Correnti - CIVIL
MO PE-2010000809

DATE PREPARED
2/3/2025

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| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 17 |

COUNTY
VARIOUS

JOB NO.
JCD0076


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
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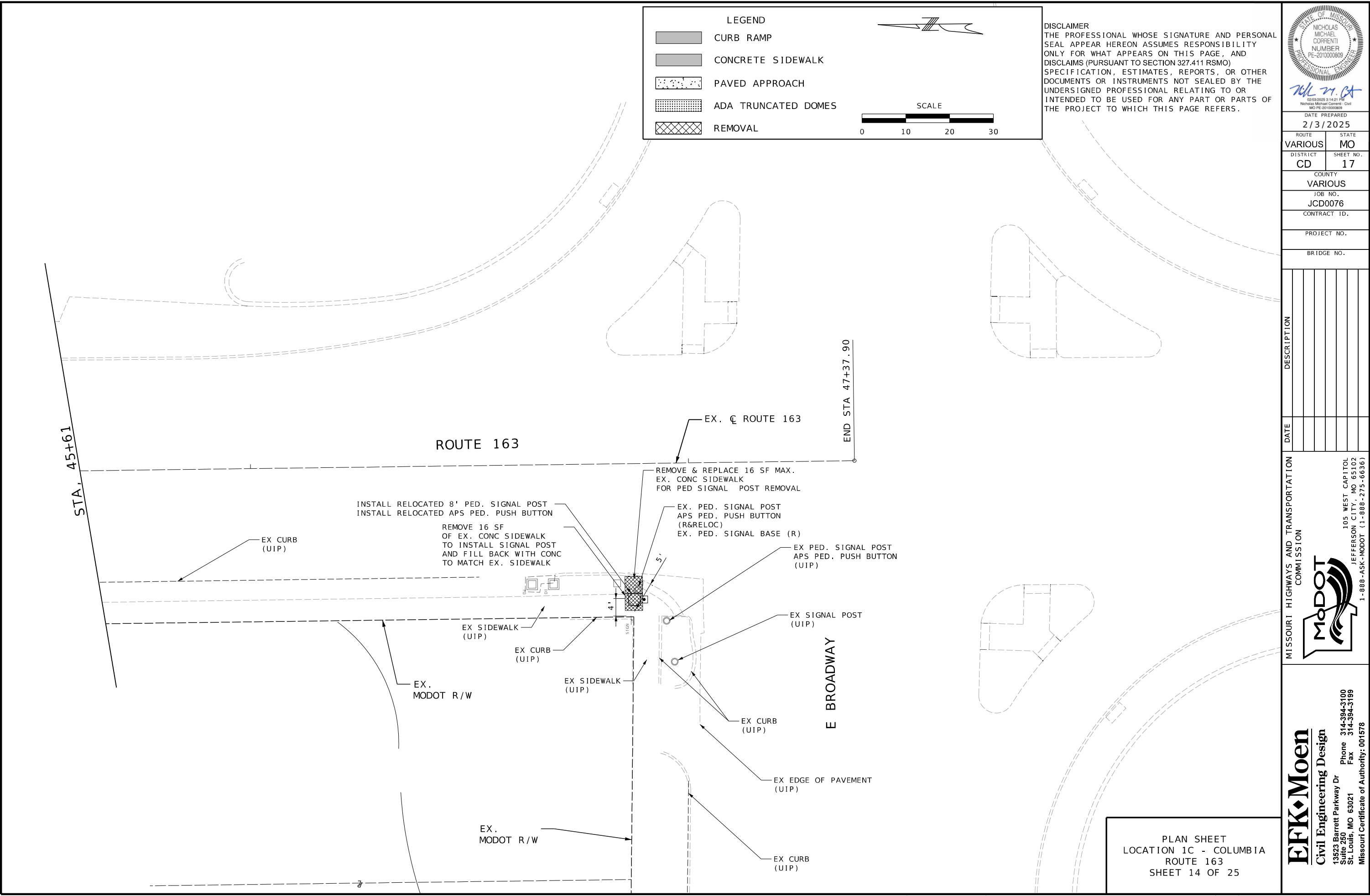
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

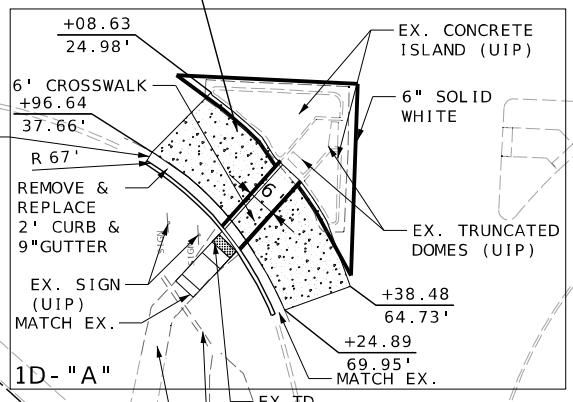
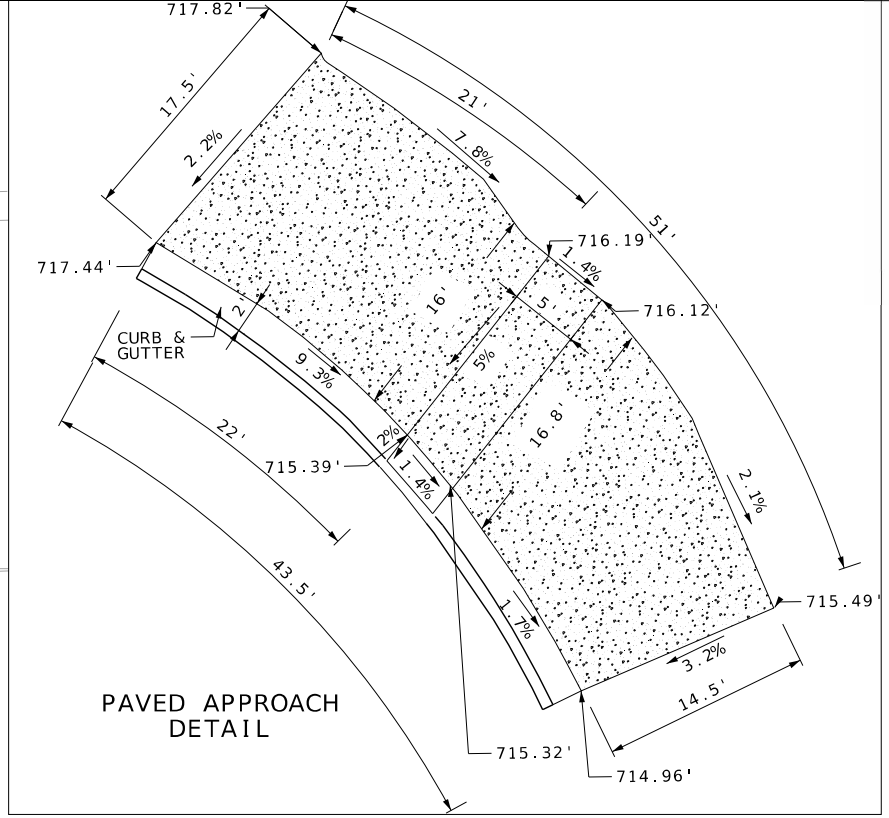
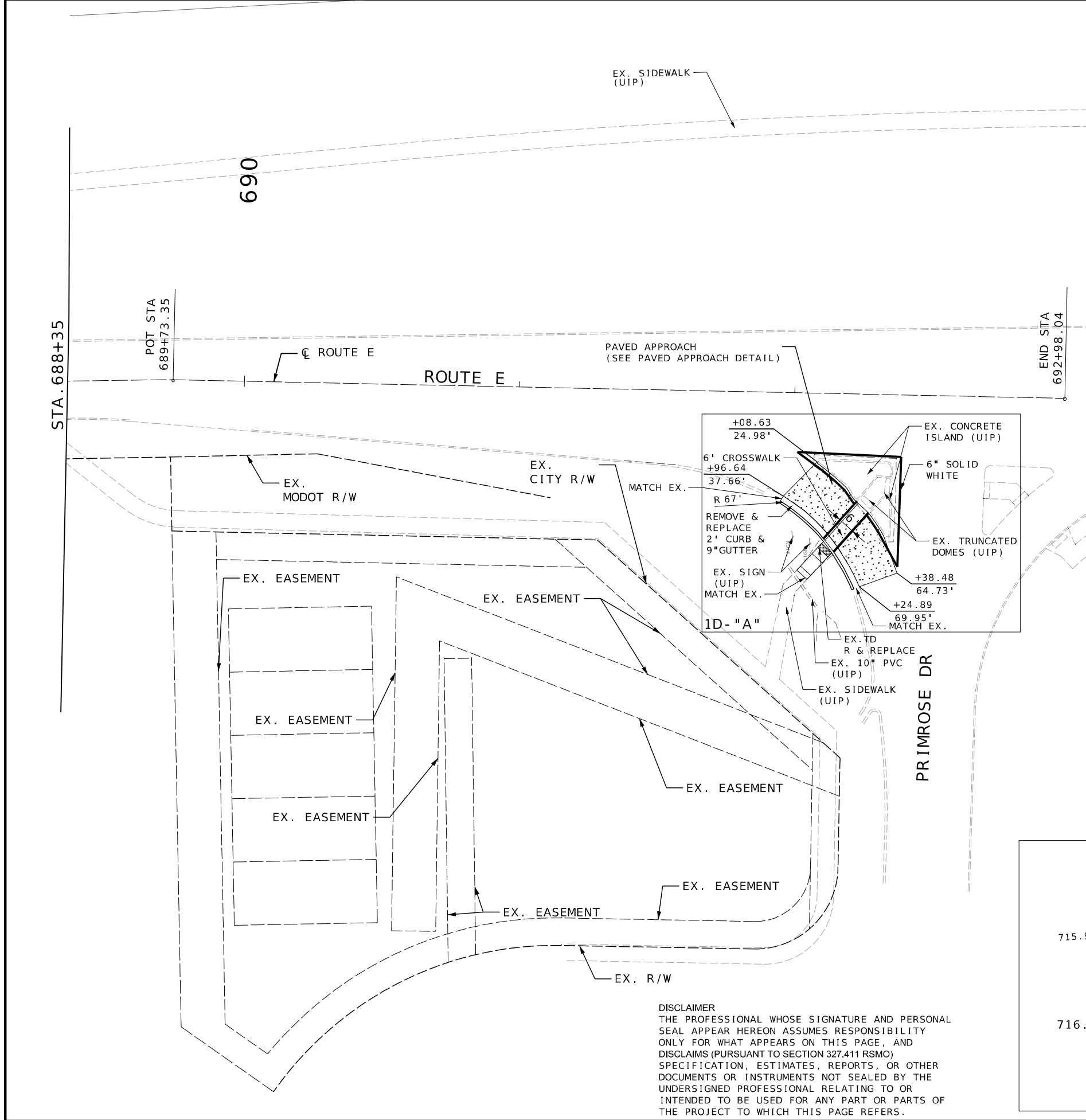


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Fax 314-394-3199
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PLAN SHEET
LOCATION 1C - COLUMBIA
ROUTE 163
SHEET 14 OF 25

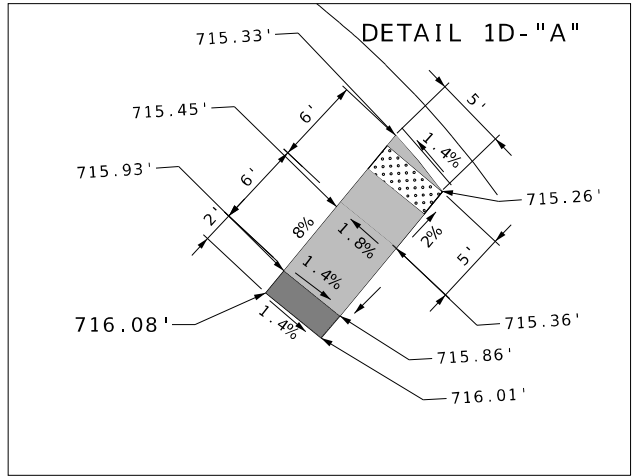




LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE
 0 20 40 60



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PLAN SHEET
 LOCATION 1D - COLUMBIA
 ROUTE E
 SHEET 15 OF 25



N.M.C.
 DATE PREPARED
 2/3/2025

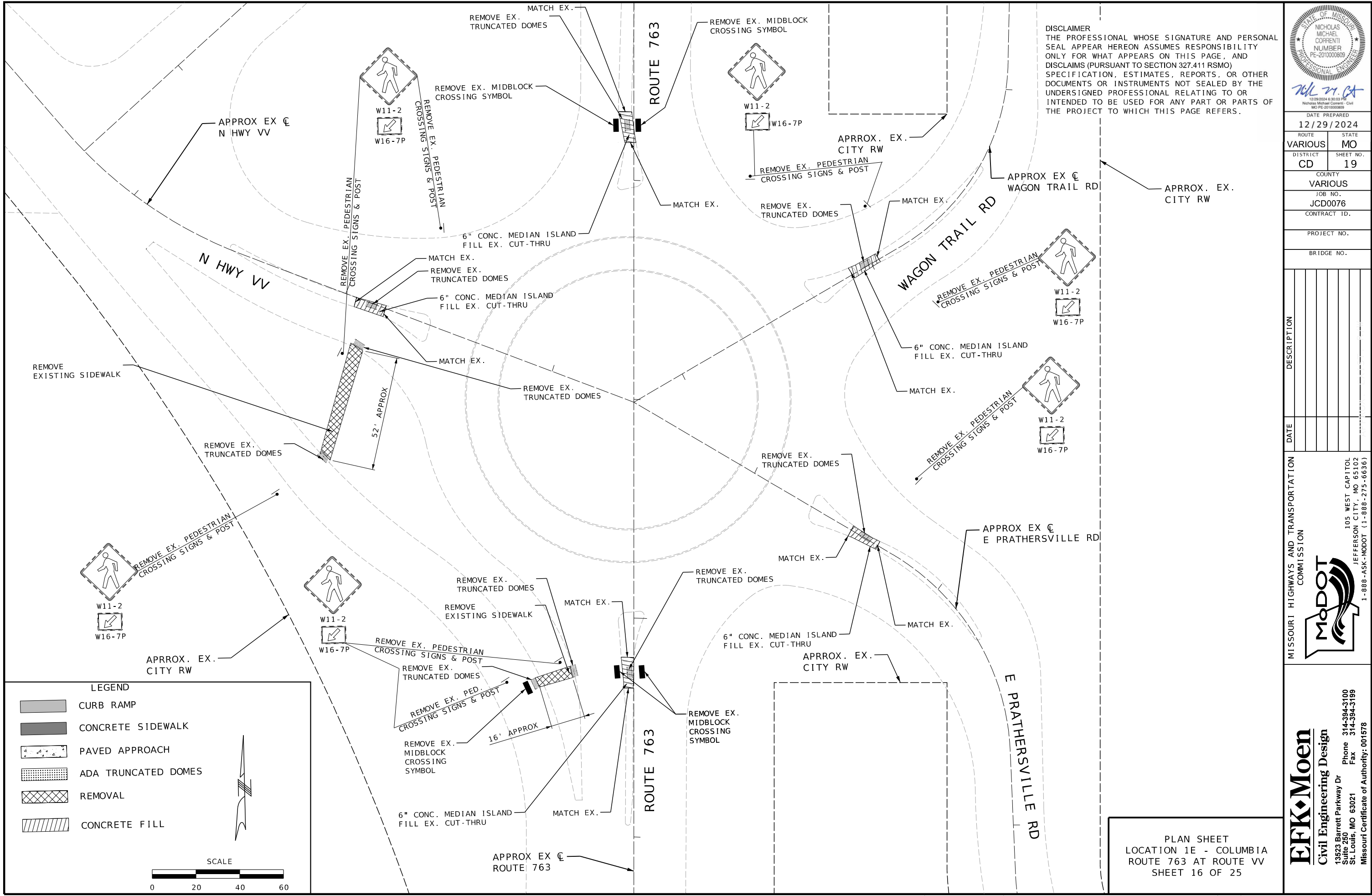
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| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 18 |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 19 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL
- CONCRETE FILL

SCALE

PLAN SHEET
 LOCATION 1E - COLUMBIA
 ROUTE 763 AT ROUTE VV
 SHEET 16 OF 25

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PI 2+11.70
 PC 1+36.08
 PT 2+86.08
 Δ 18°0'0.0" (RT)
 D 12°0'0.0"
 L 150.00' (ARC)
 T 75.62'
 R 477.47'

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

DATE PREPARED: 12/29/2024
 SCALE: 0 10 20 30



NICHOLAS MICHAEL CORRENTI
 NUMBER PE-2010000809
 PROFESSIONAL ENGINEER

| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 20 |

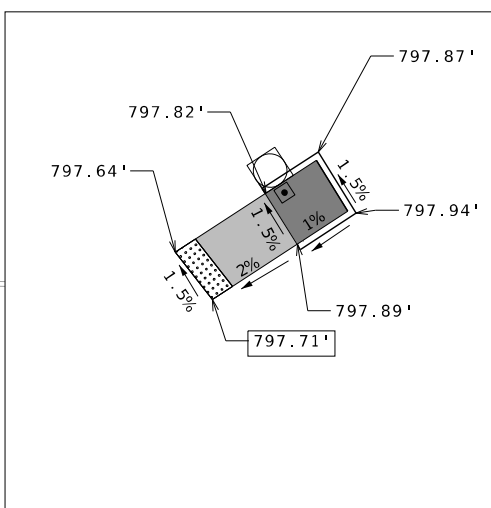
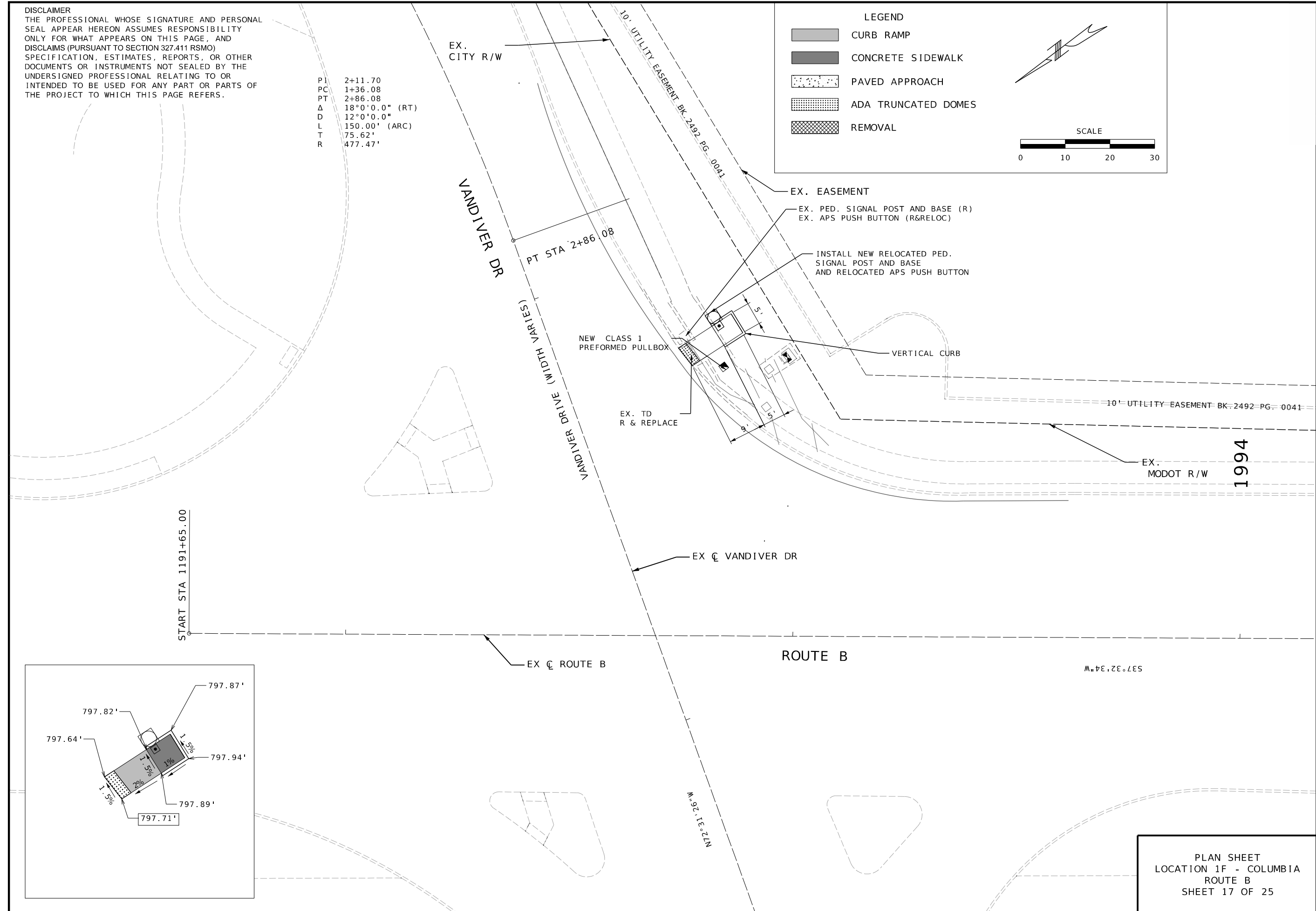
COUNTY
VARIOUS
 JOB NO.
JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



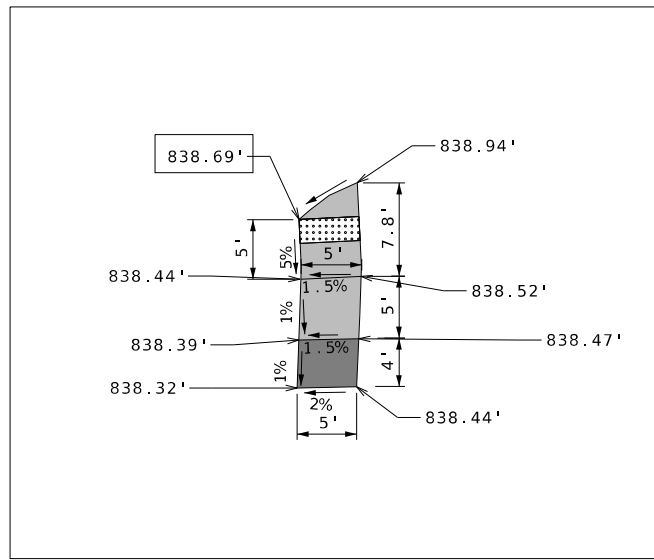
PLAN SHEET
 LOCATION 1F - COLUMBIA
 ROUTE B
 SHEET 17 OF 25

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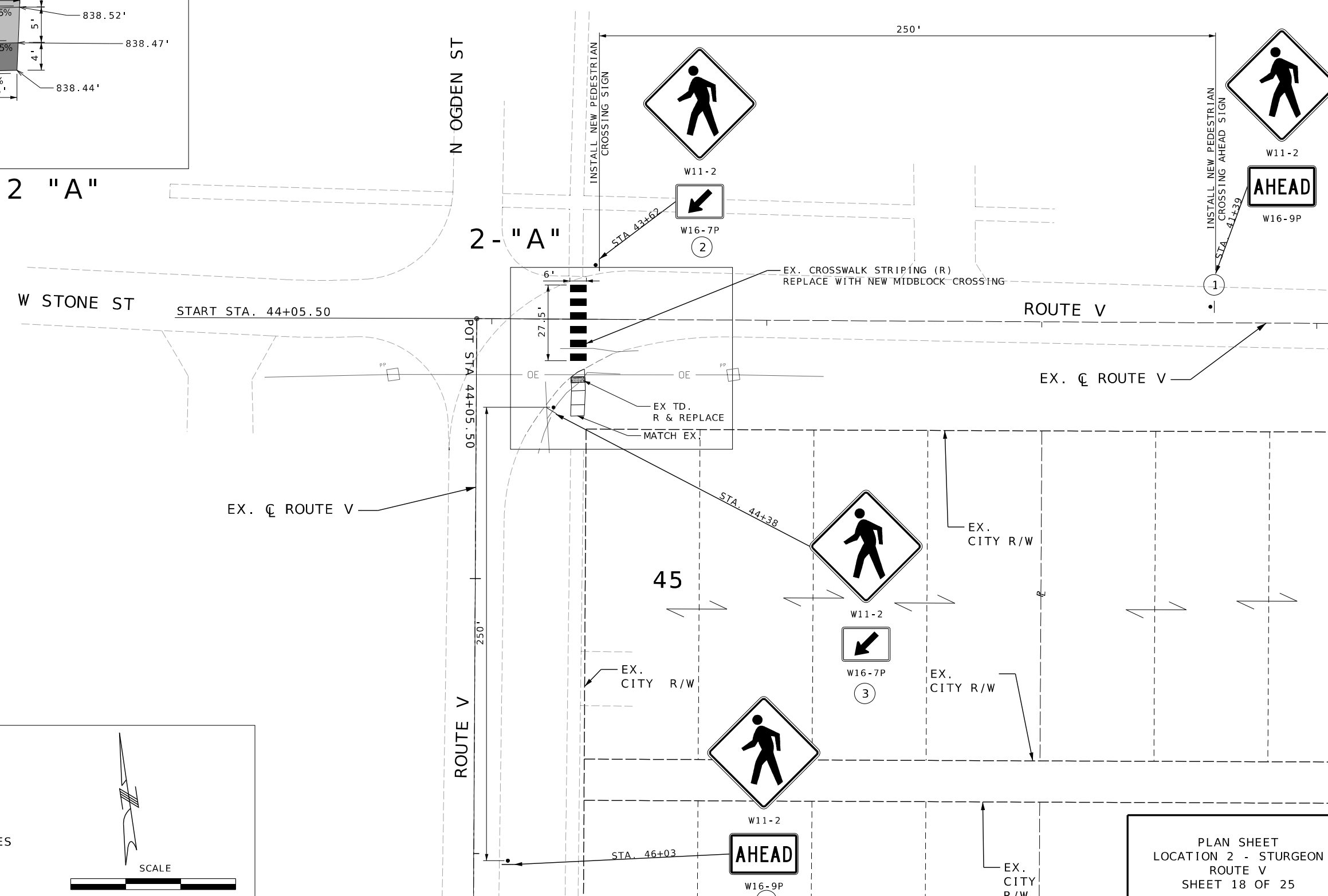


Nick M. Correnti
 Nicholas Michael Correnti, Civil
 MO PE-2010000809

| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 21 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



DETAIL 2 "A"



LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE

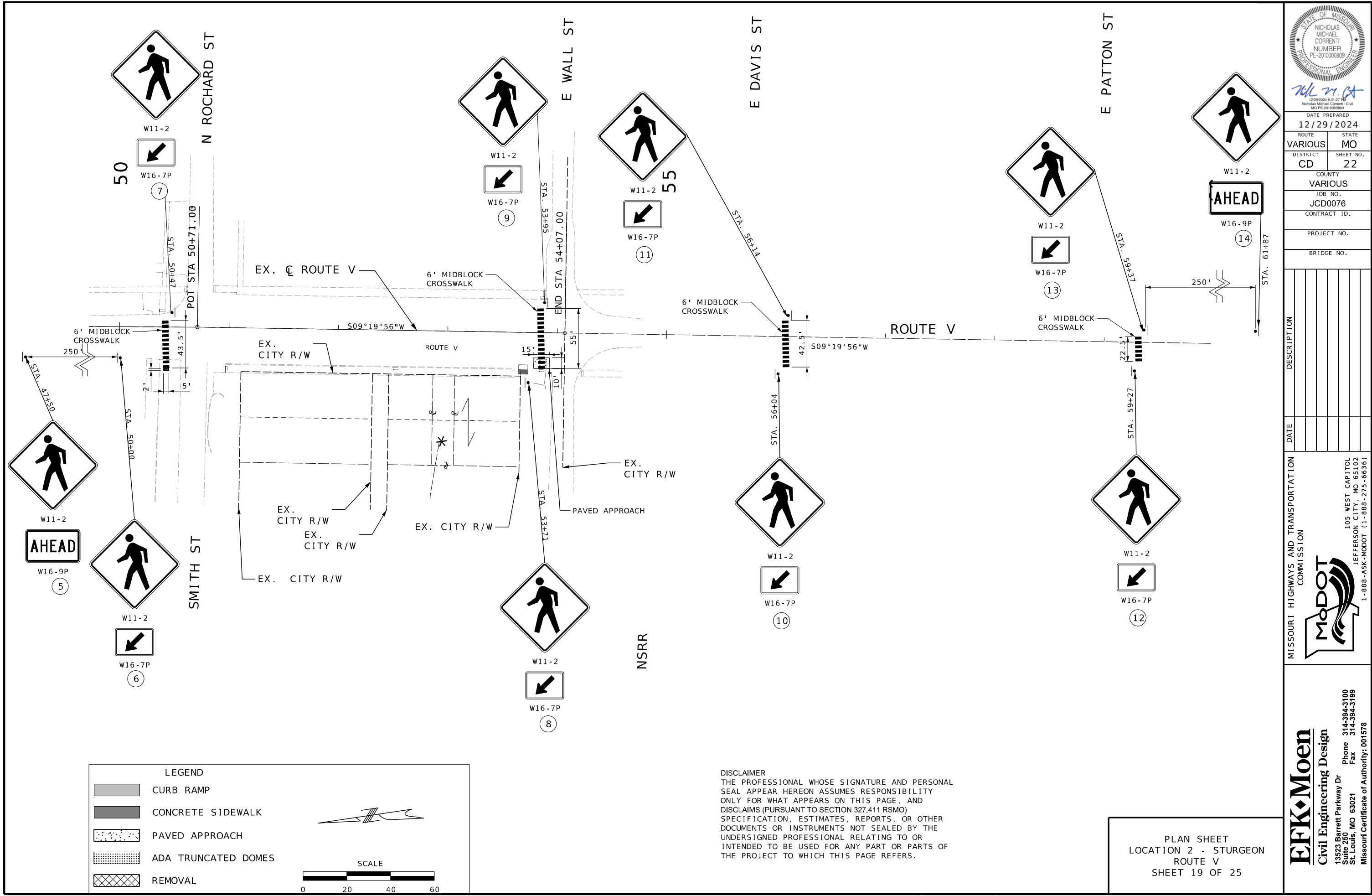
| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
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PLAN SHEET
 LOCATION 2 - STURGEON
 ROUTE V
 SHEET 18 OF 25



STATE OF MISSOURI
 NICHOLAS MICHAEL CORRENTI
 NUMBER PE-201000809
 PROFESSIONAL ENGINEER

DATE PREPARED
 12/29/2024
 ROUTE VARIOUS STATE MO
 DISTRICT CD SHEET NO. 22
 COUNTY VARIOUS
 JOB NO. JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

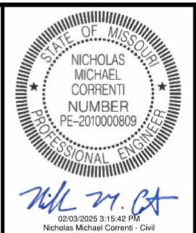
LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE
 0 20 40 60

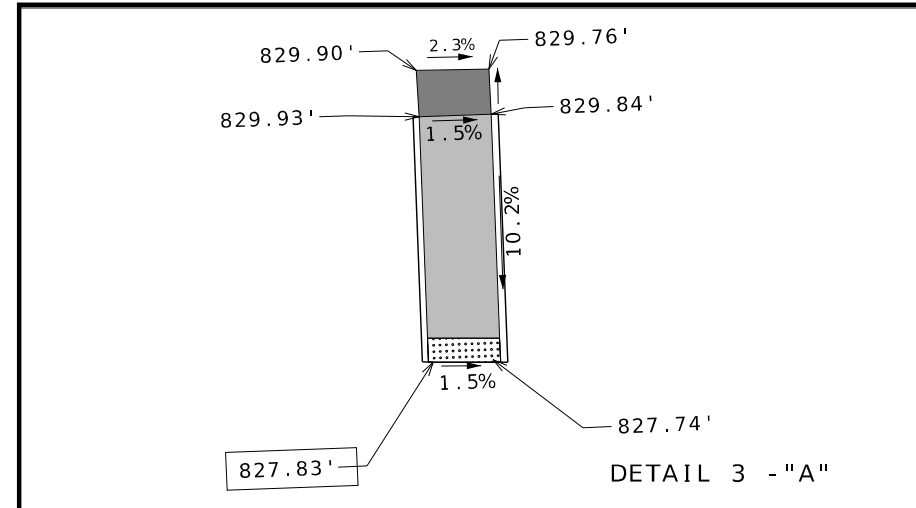
DISCLAIMER
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PLAN SHEET
 LOCATION 2 - STURGEON
 ROUTE V
 SHEET 19 OF 25

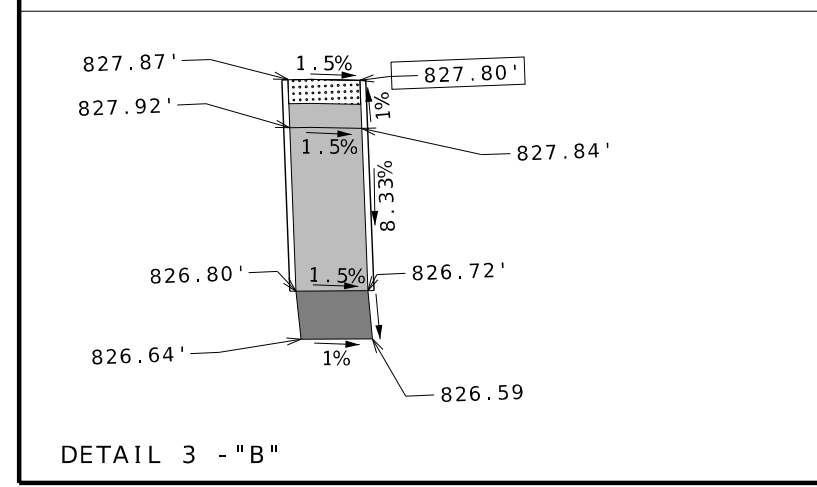
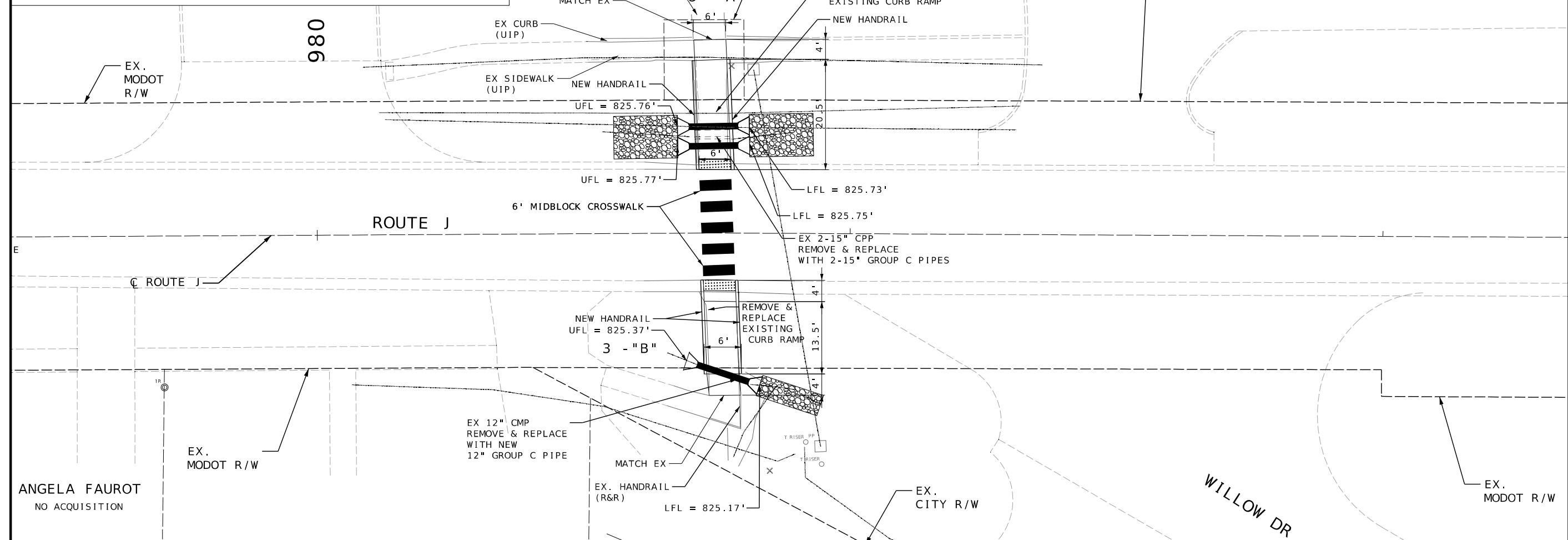


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|---------------|----------|
| DATE PREPARED | 2/3/2025 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 23 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



①
 NEW BLOOMFIELD R III SCHOOL



LEGEND

| | | | |
|--|---------------------|--|---------|
| | CURB RAMP | | REMOVAL |
| | CONCRETE SIDEWALK | | |
| | PAVED APPROACH | | |
| | ADA TRUNCATED DOMES | | |

SCALE

PLAN SHEET
 LOCATION 3 -
 NEW BLOOMFIELD
 ROUTE J
 SHEET 20 OF 25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

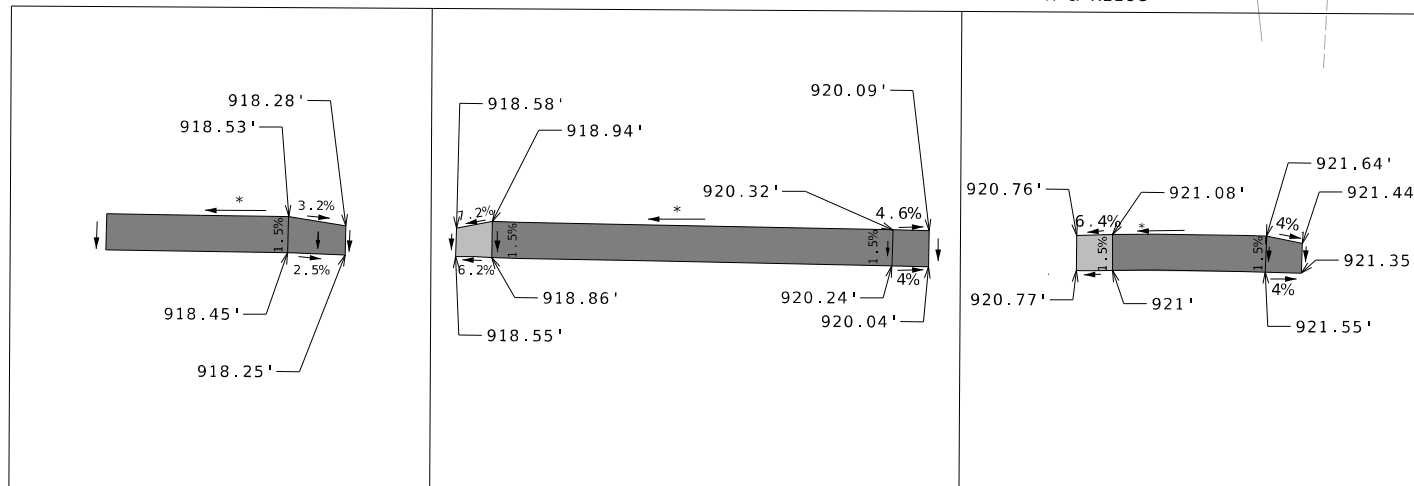
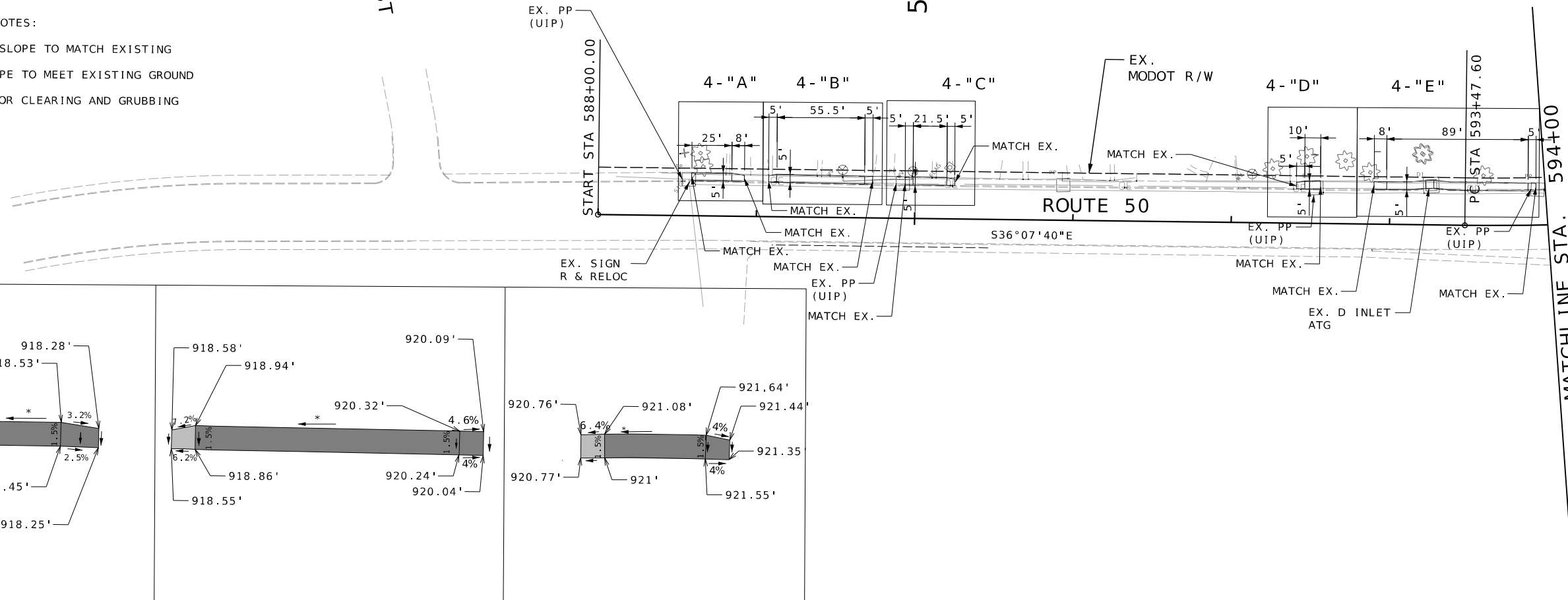
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NOTES:

- * SIDEWALK RUNNING SLOPE TO MATCH EXISTING
- ** RAMP RUNNING SLOPE TO MEET EXISTING GROUND
- NO DIRECT PAYMENT FOR CLEARING AND GRUBBING

11TH ST

590

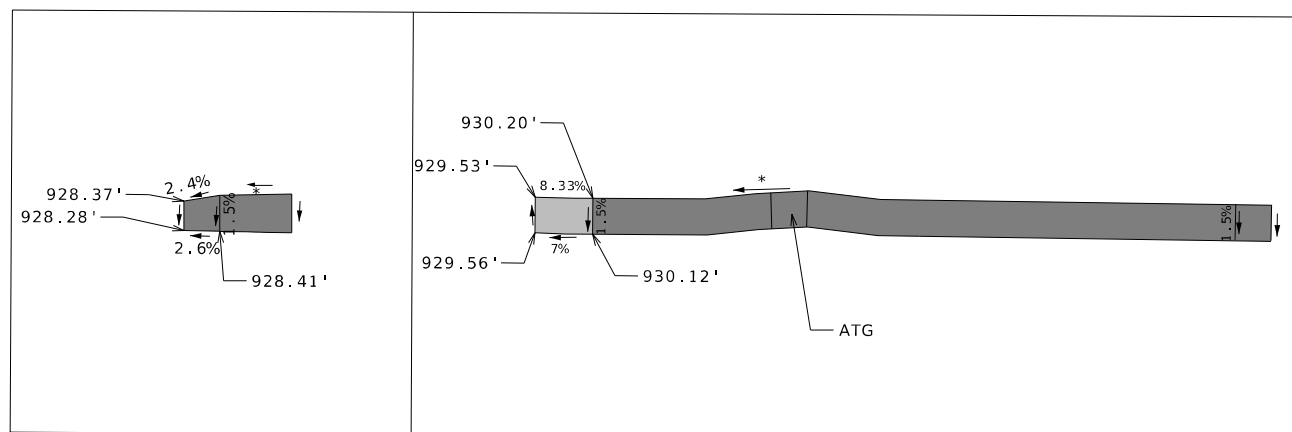


DETAIL 4-"A"

DETAIL 4-"B"

DETAIL 4-"C"

E JEFFERSON ST



DETAIL 4-"D"

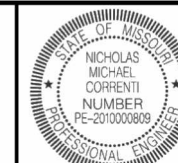
DETAIL 4-"E"

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE
 0 40 80 120

PLAN SHEET
 LOCATION 4 - LINN
 US-50
 SHEET 21 OF 25



12/29/2024 6:33:06 PM
 Nicholas Michael Correnti - Civil
 MCI PE 201000809

DATE PREPARED
 12/29/2024

ROUTE STATE
 VARIOUS MO

DISTRICT SHEET NO.
 CD 24

COUNTY
 VARIOUS

JOB NO.
 JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



NICHOLAS MICHAEL CORRENTI
 NUMBER PE-2010000609
 PROFESSIONAL ENGINEER

DATE PREPARED
 2/3/2025

ROUTE VARIOUS STATE MO

DISTRICT CD SHEET NO. 25

COUNTY VARIOUS

JOB NO. JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

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

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

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

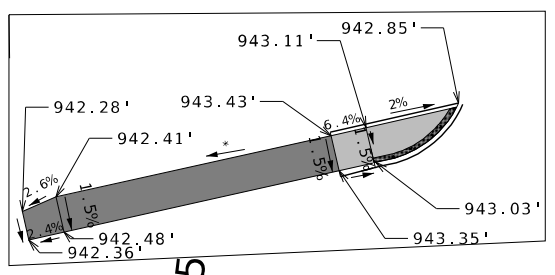
1-888-ASK-MODOT (1-888-275-6636)

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

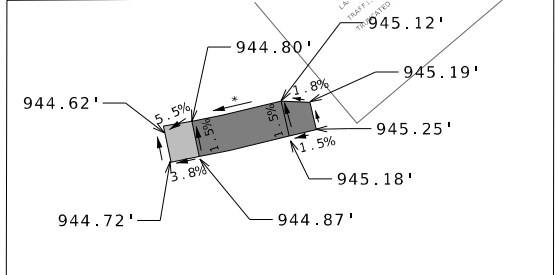
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1-888-ASK-MODOT (1-888-275-6636)

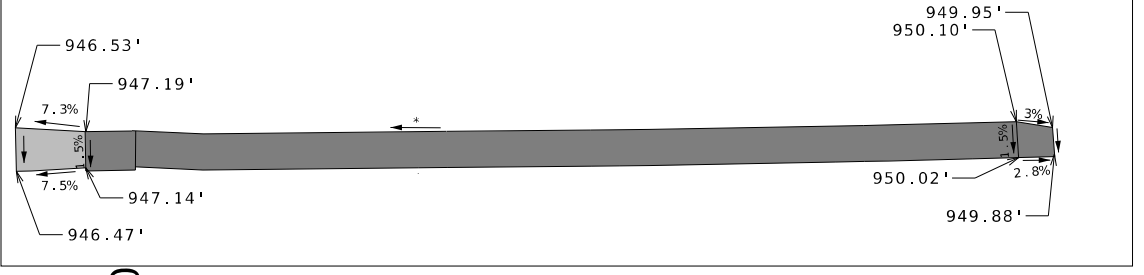
1-888-ASK-MODOT (1-888-275-6636)



595 DETAIL 4 - "H"

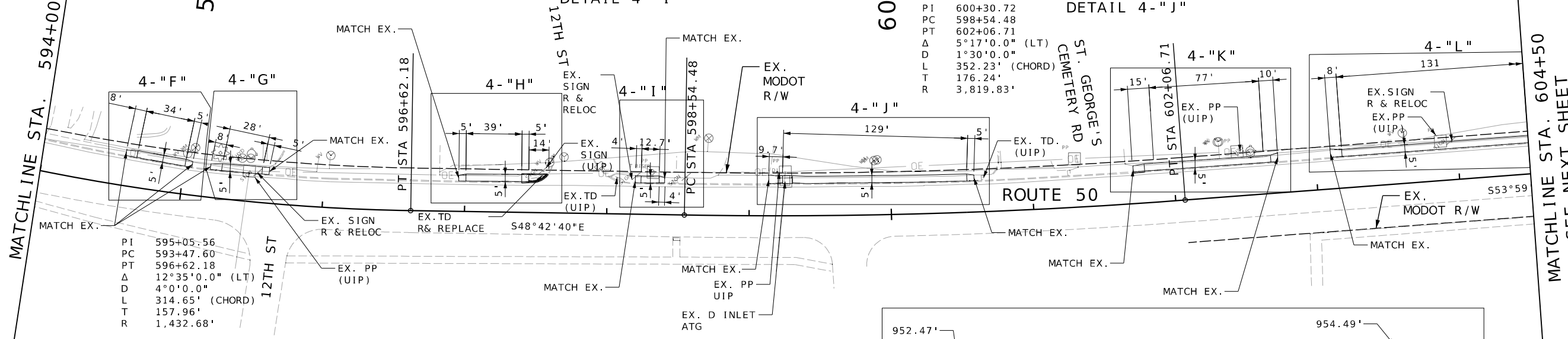


600 DETAIL 4 - "I"

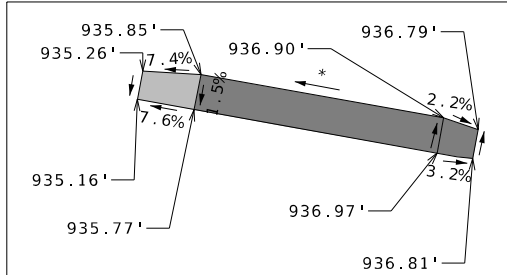


600 DETAIL 4 - "J"

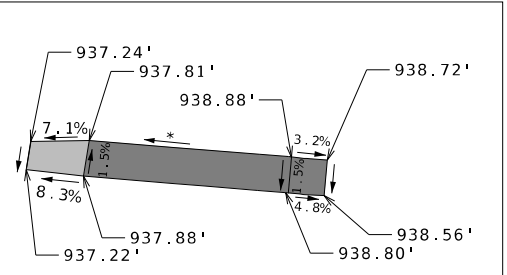
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 PC 598+54.48
 PT 602+06.71
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 D 1°30'0.0"
 L 352.23' (CHORD)
 T 176.24'
 R 3,819.83'



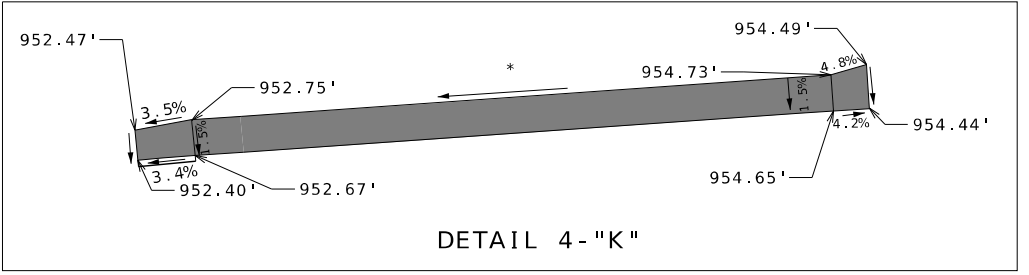
PI 595+05.56
 PC 593+47.60
 PT 596+62.18
 Δ 12°35'0.0" (LT)
 D 4°0'0.0"
 L 314.65' (CHORD)
 T 157.96'
 R 1,432.68'



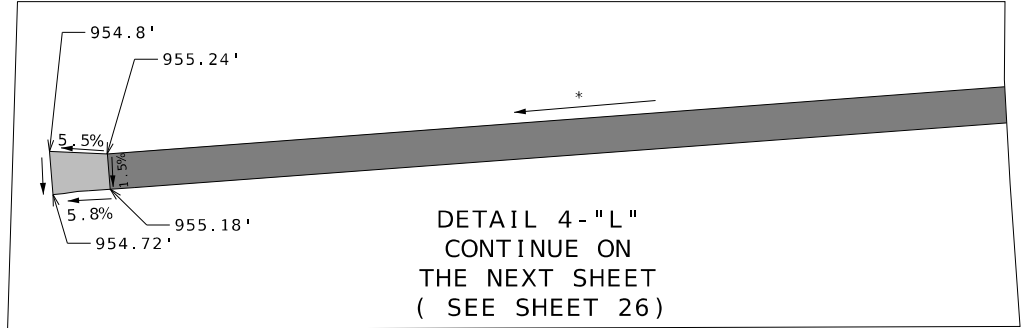
DETAIL 4 - "F"



DETAIL 4 - "G"



DETAIL 4 - "K"



DETAIL 4 - "L"
 CONTINUE ON
 THE NEXT SHEET
 (SEE SHEET 26)

NOTES:
 * SIDEWALK RUNNING SLOPE TO MATCH EXISTING
 ** RAMP RUNNING SLOPE TO MEET EXISTING GROUND
 NO DIRECT PAYMENT FOR CLEARING AND GRUBBING

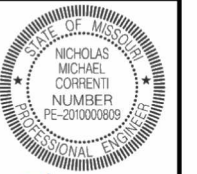
LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

SCALE

DISCLAIMER
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PLAN SHEET
 LOCATION 4 - LINN
 US-50
 SHEET 22 OF 25



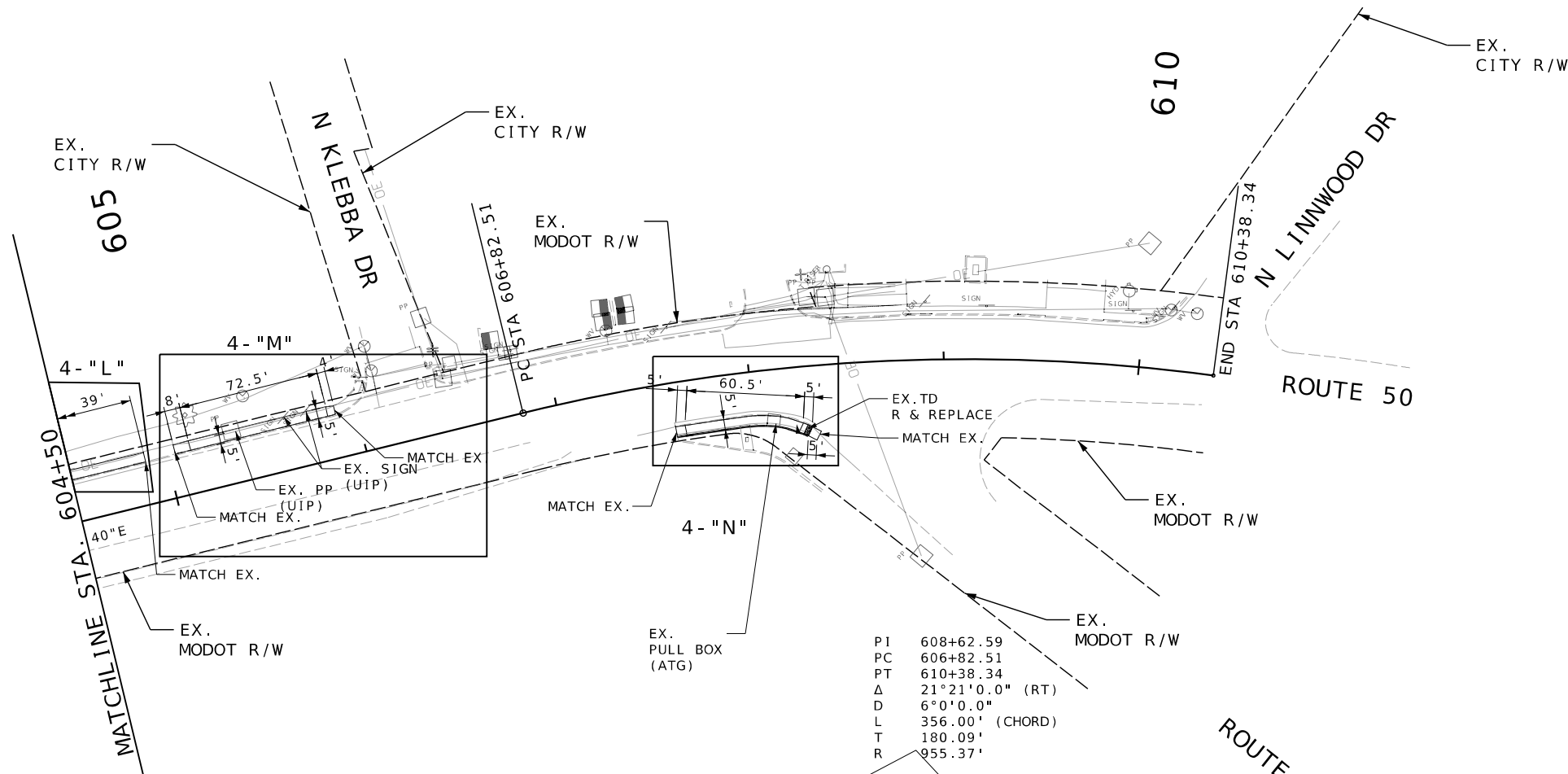
nick m. ca
 12/29/2024 6:34:07 PM
 Nicholas Michael Correnti - Civil
 MO PE-2010000809

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|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 26 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

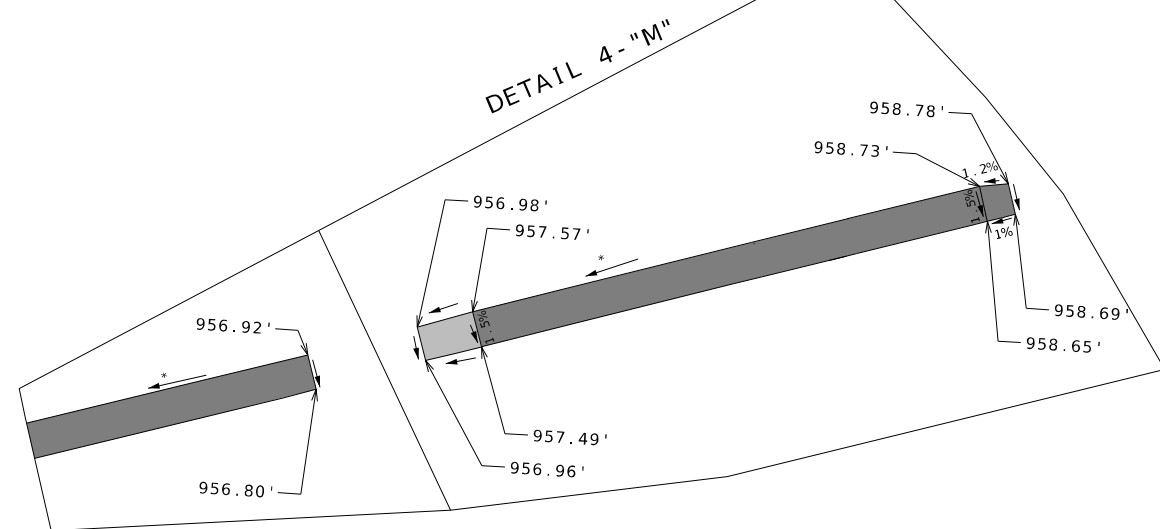
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

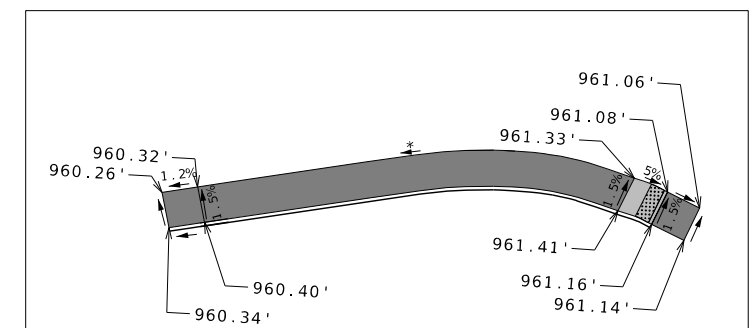
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



PI 608+62.59
 PC 606+82.51
 PT 610+38.34
 Δ 21°21'0.0" (RT)
 D 6°0'0.0"
 L 356.00' (CHORD)
 T 180.09'
 R 955.37'



DETAIL 4 - "L"
 SEE PREVIOUS SHEET
 (SHEET 25)



DETAIL 4 - "N"

| LEGEND | |
|--------|---------------------|
| | CURB RAMP |
| | CONCRETE SIDEWALK |
| | PAVED APPROACH |
| | ADA TRUNCATED DOMES |
| | REMOVAL |

SCALE

NOTES:
 * SIDEWALK RUNNING SLOPE TO MATCH EXISTING
 ** RAMP RUNNING SLOPE TO MEET EXISTING GROUND
 NO DIRECT PAYMENT FOR CLEARING AND GRUBBING

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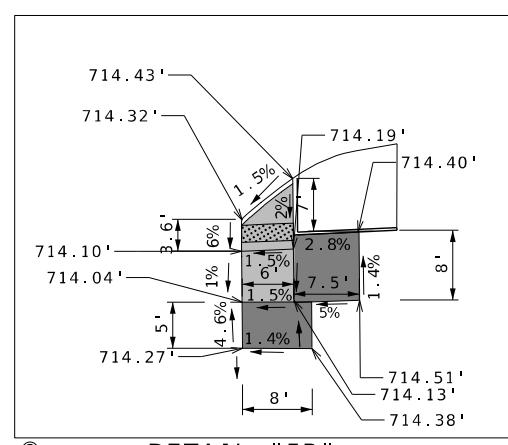
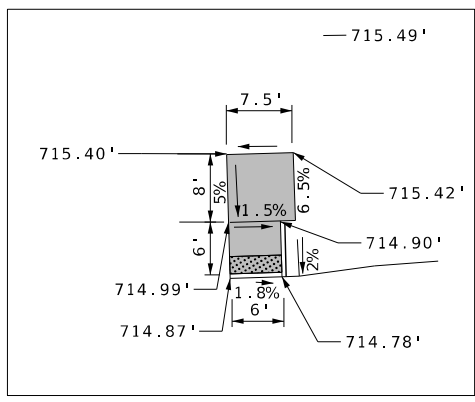
PLAN SHEET
 LOCATION 4 - LINN
 US-50
 SHEET 23 OF 25



N.M. Correnti
12/29/2024 7:50:26 PM
Nicholas Michael Correnti - Civil
MO PE-2010000809

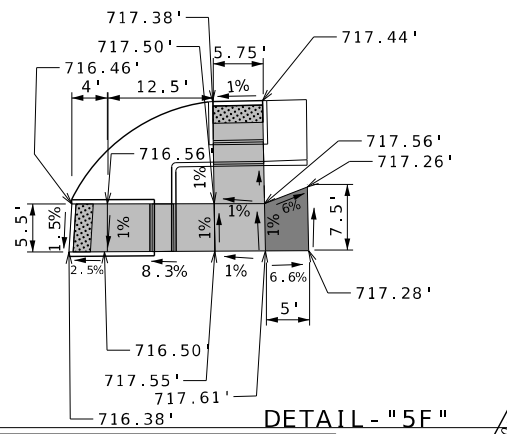
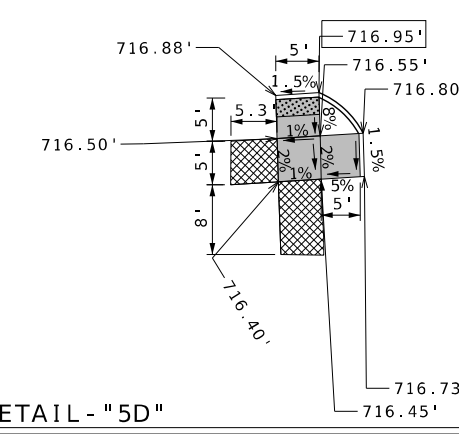
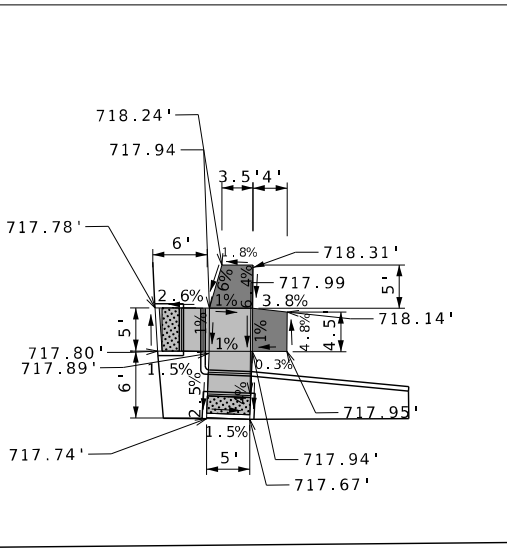
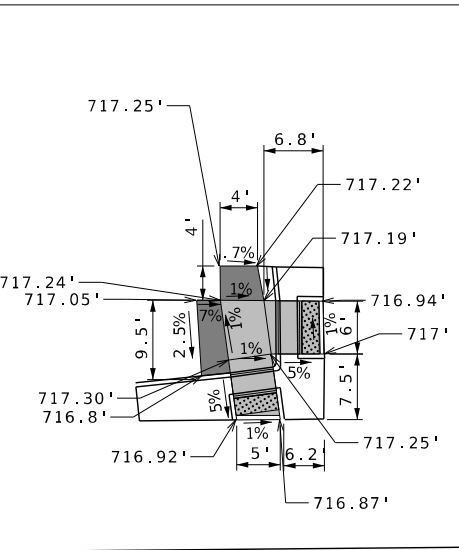
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| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 27 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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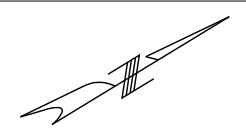
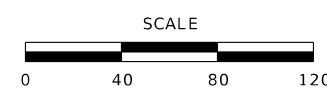
DETAIL - "5C"

DETAIL - "5E"

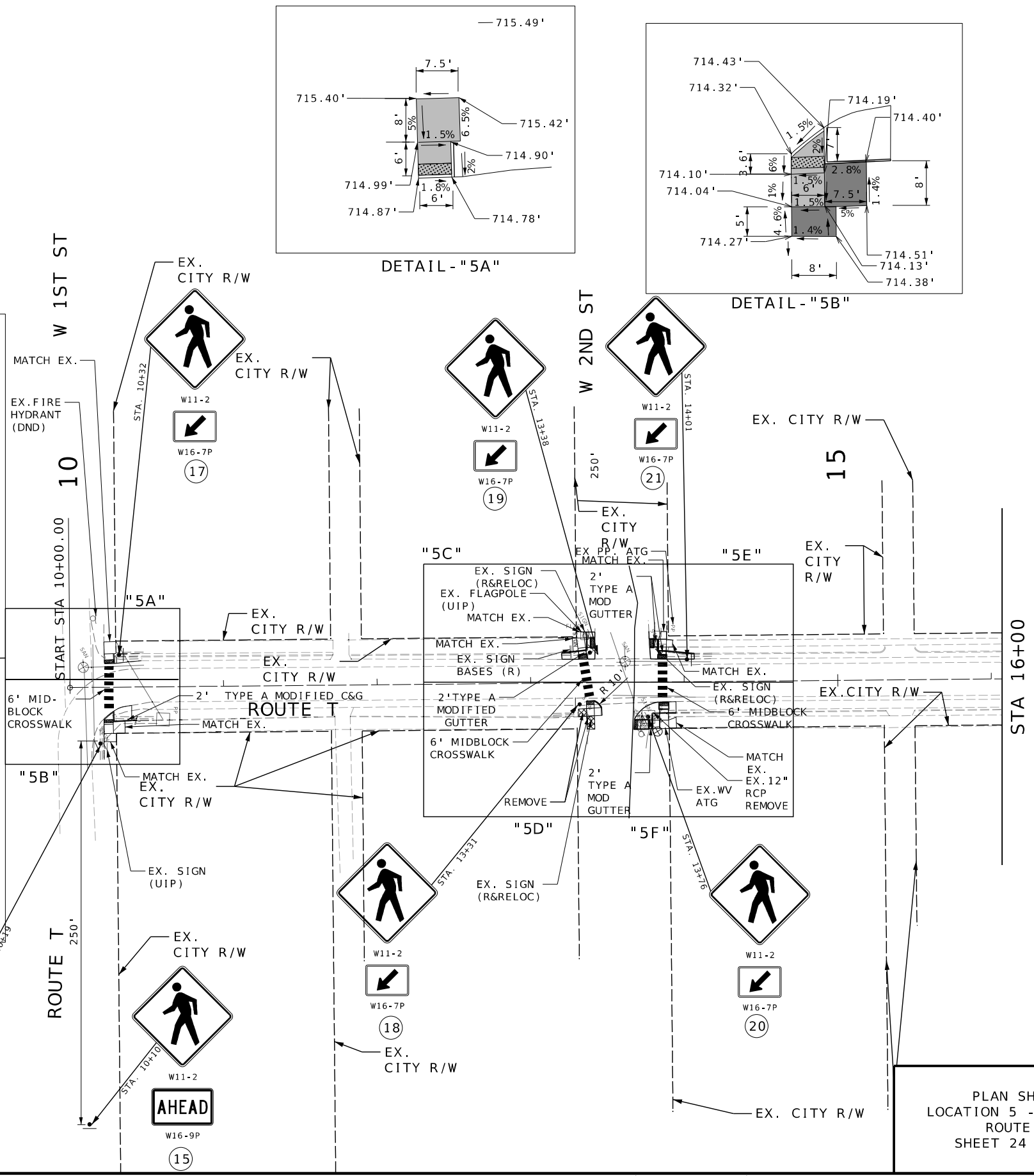
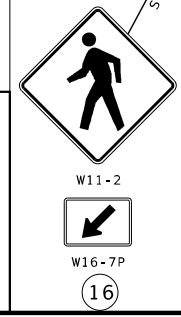


DETAIL - "5D"

DETAIL - "5F"



| LEGEND | |
|-------------------------|---------------------|
| [Hatched pattern] | CURB RAMP |
| [Solid grey] | CONCRETE SIDEWALK |
| [Dotted pattern] | PAVED APPROACH |
| [Grid pattern] | ADA TRUNCATED DOMES |
| [Cross-hatched pattern] | REMOVAL |



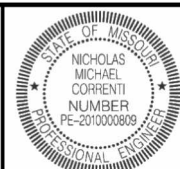
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

PLAN SHEET
 LOCATION 5 - NEWBURG
 ROUTE T
 SHEET 24 OF 25

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DATE PREPARED
 12/29/2024

ROUTE STATE
 VARIOUS MO

DISTRICT SHEET NO.
 CD 28

COUNTY
 VARIOUS

JOB NO.
 JCD0076

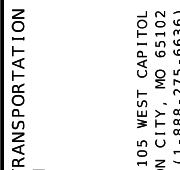
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

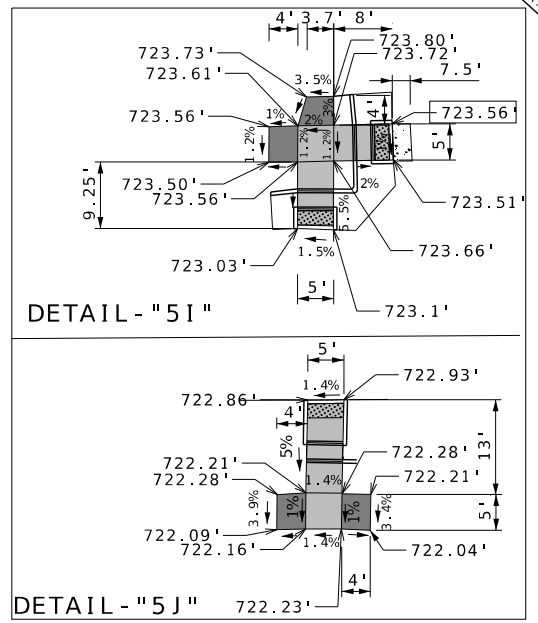
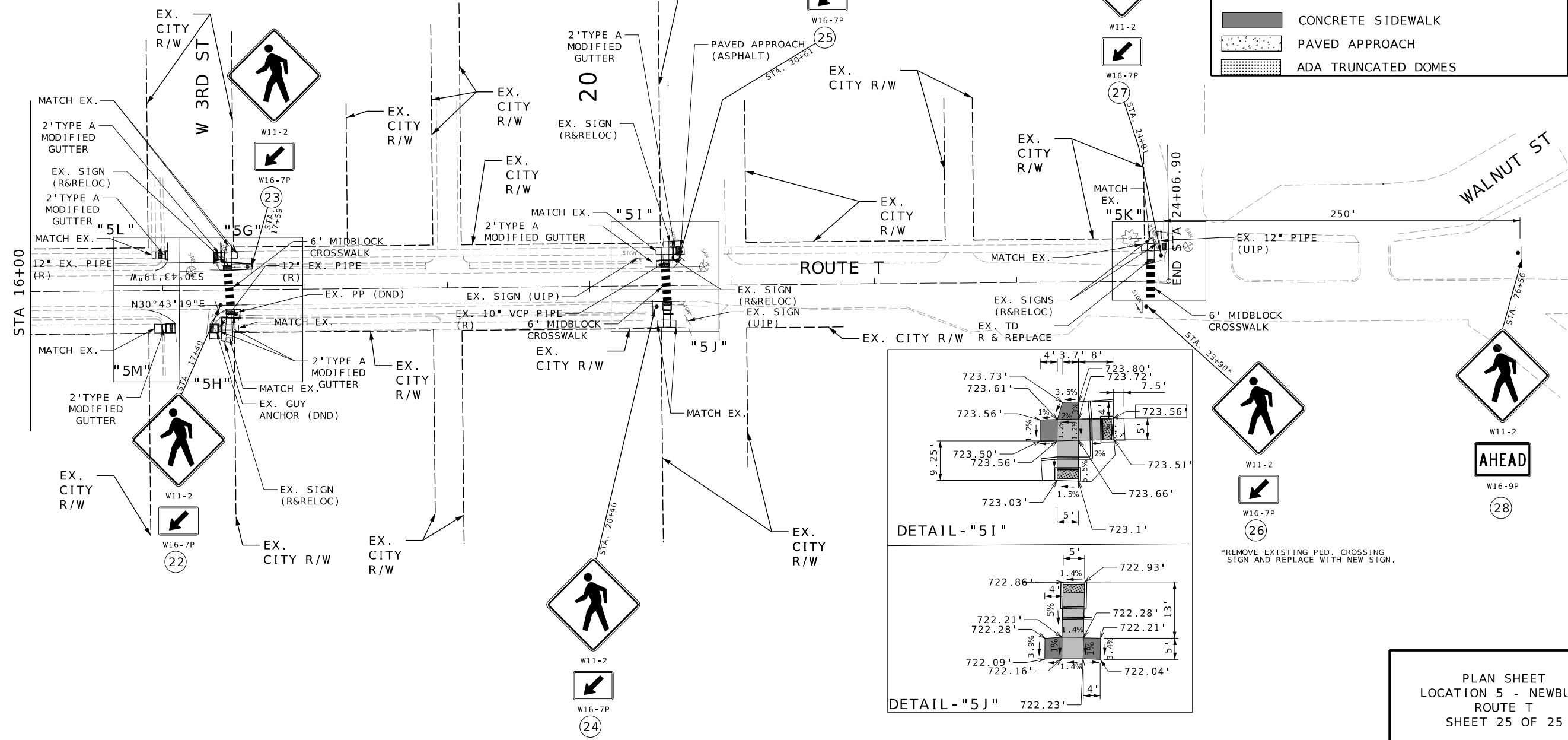
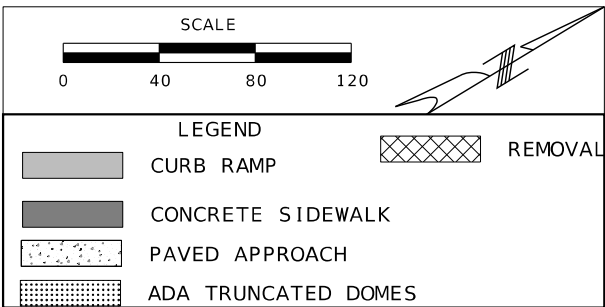
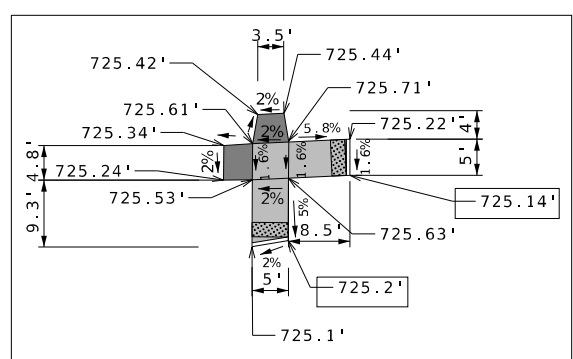
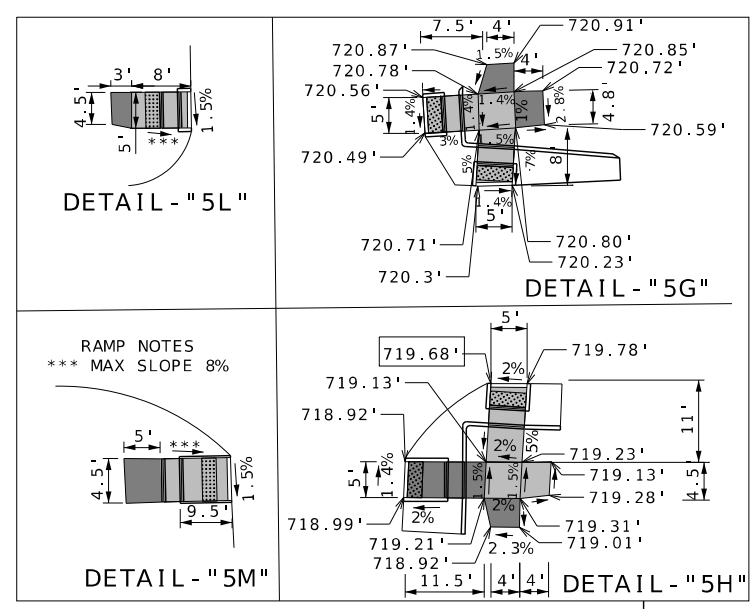
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

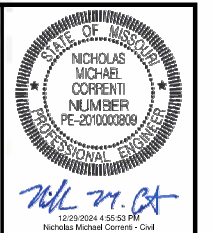
EFK Moen
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 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



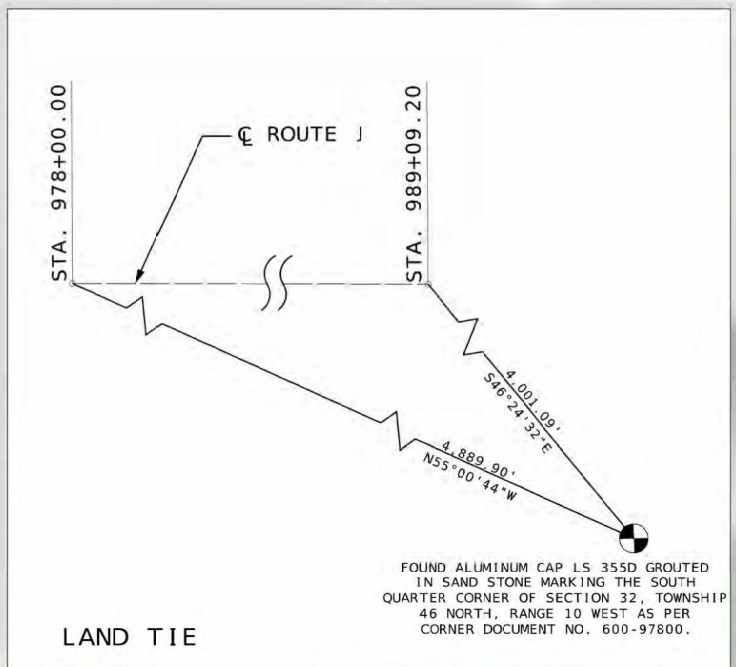
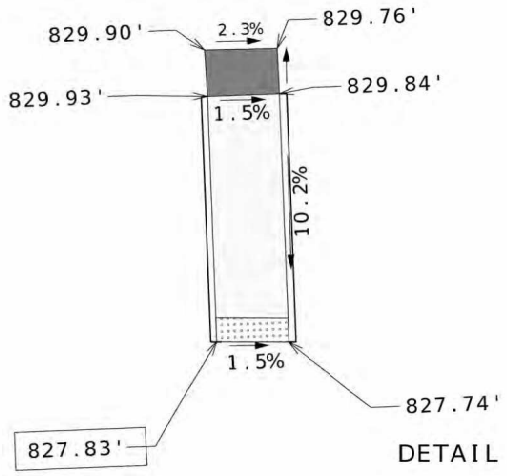
PLAN SHEET
 LOCATION 5 - NEWBURG
 ROUTE T
 SHEET 25 OF 25

THIS SHEET FOR INFORMATION ONLY

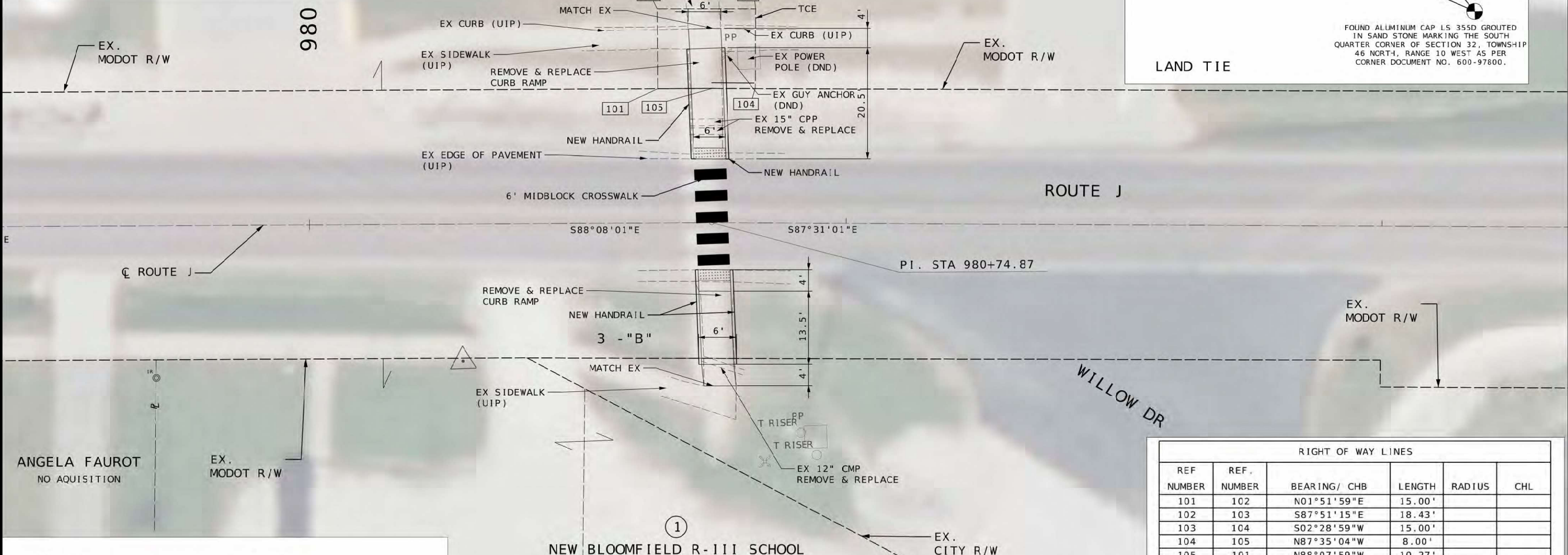
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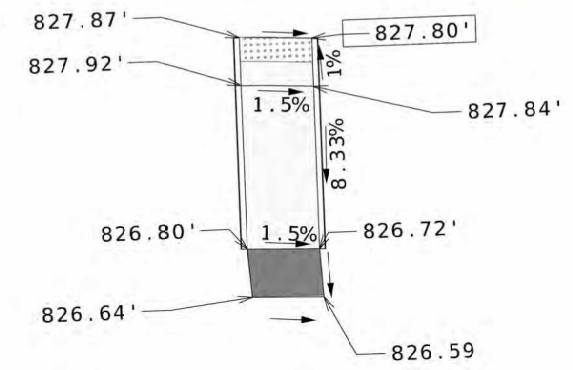
DATE PREPARED
 12/29/2024
 ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 29
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.



NEW BLOOMFIELD R-III SCHOOL
 275 SF TEMP. ESM. T.
 50.04 AC REMAINING (LT)
 1.51 AC REMAINING (RT)



ANGELA FAUROT
 NO ACQUISITION



| RIGHT OF WAY LINES | | | | | |
|--------------------|------------|---------------|--------|--------|-----|
| REF NUMBER | REF NUMBER | BEARING/ CHB | LENGTH | RADIUS | CHL |
| 101 | 102 | N01°51'59\"/> | | | |

| PROJECT COORDINATE SYSTEM | | | | |
|---------------------------|--------------|--------------|-----------|-------------|
| POINT NO. | NORTH | EAST | STATION | OFFSET |
| 101 | 1051446.3438 | 1758505.7301 | 980+65.00 | 25.00' (LT) |
| 102 | 1051461.3387 | 1758506.2187 | 980+65.00 | 40.00' (LT) |
| 103 | 1051460.6486 | 1758524.6360 | 980+83.00 | 40.00' (LT) |
| 104 | 1051445.6721 | 1758523.9866 | 980+83.00 | 25.00' (LT) |
| 105 | 1051446.0093 | 1758515.9937 | 980+75.00 | 25.00' (LT) |

LEGEND

- CURB RAMP
- CONCRETE SIDEWALK
- PAVED APPROACH
- ADA TRUNCATED DOMES
- REMOVAL

T46N, R10W, SEC 31

SCALE

RIGHT OF WAY SHEET
 LOCATION 3 -
 NEW BLOOMFIELD
 ROUTE J
 SHEET 1 OF 1

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

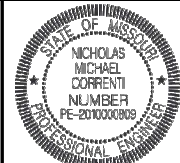
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

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Nicholas Michael Correnti
12/29/2024 4:56:47 PM
Nicholas Michael Correnti - Civil
MO PE-2010000809

| PROJECT COORDINATE INFORMATION | |
|---------------------------------------------------------------|------------------------------------|
| COORDINATE SYSTEM | MODIFIED MISSOURI STATE PLANE |
| HORIZONTAL DATUM | NAD 83 (2011) (EPOCH 2010) |
| VERTICAL DATUM | NAVD 88: GNSS DERIVED |
| GEOID MODEL | 18 |
| ELEVATIONS DETERMINED BY | GNSS DERIVED |
| PROJECT PROJECTION FACTOR | 1.00009405 |
| REFERENCE CONTROL INFORMATION | |
| COORDINATE SYSTEM | MISSOURI COORDINATE SYSTEM OF 1983 |
| CONTROL STATION | MISSOURI CORS |
| DESIGNATION | MODOT COLUMBIA CORS ARP |
| CORS_ID | MOCO |
| PID | DN4500 |
| LATITUDE | 38° 59' 32.00211" (N) |
| LONGITUDE | 92° 17' 04.88566" (W) |
| NORTHING (M) | 350,589.515 |
| EASTING (M) | 518,652.298 |
| ZONE | CENTRAL |
| PROJECT AVERAGE GRID FACTOR | 0.999905957 |
| EXAMPLE OF PROJECT COORDINATE TO S.P.C. | |
| PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING | |
| PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING | |
| EXAMPLE: CONTROL POINT #1 | |
| N 1117337.107 X 0.99998069 = N 1117315.531 | |
| E 548122.702 X 0.99998069 = E 548112.118 | |
| LINEAR UNIT CONVERSION | |
| 1 METER = 3.280833333 US SURVEY FEET (USFT) | |

| COORDINATE POINT LISTING | | | | | | | | |
|-------------------------------|-----------|----------|---------------|-------------------------------|------------------------|--------------------------|----------------------------|--------------|
| PLAN SHEET NO | STATION | LOCATION | OFFSET (USFT) | MODIFIED STATE PLANE (GROUND) | | | DESCRIPTION | GPK POINT ID |
| | | | | NORTHING (US SURVEY FT) | EASTING (US SURVEY FT) | ELEVATION (US SURVEY FT) | | |
| PROJECT CONTROL POINTS | | | | | | | | |
| | 104+93.95 | RTE WW | 87.00 | 1,133,795.39 | 1,698,666.64 | 726.91 | CUT X IN CONCRETE SIDEWALK | CP1 |
| | 107+27.67 | RTE WW | 91.60 | 1,133,779.36 | 1,698,899.82 | 730.03 | CUT X IN CONCRETE SIDEWALK | CP2 |
| | 170+52 | RTE WW | 43.45 | 1,127,982.68 | 1,709,014.90 | 775.90 | CUT X IN CONCRETE SIDEWALK | CP5 |
| | 182+23.53 | RTE WW | 46.77 | 1,127,199.12 | 1,709,896.00 | 746.02 | CUT X IN CONCRETE SIDEWALK | CP6 |
| | 63+93.07 | RTE TT | 57.34 | 1,136,679.66 | 1,673,378.11 | 721.79 | IRON ROD W/CAP | CP7 |
| | 53+61.65 | RTE TT | 54.45 | 1,136,566.07 | 1,674,403.20 | 751.03 | IRON ROD W/CAP | CP8 |
| | 48+62 | RTE TT | 47.30 | 1,136,616.21 | 1,674,910.72 | 761.39 | IRON ROD W/CAP | CP9 |
| | 35+96.47 | RTE TT | 26.10 | 1,136,416.98 | 1,676,163.06 | 768.45 | IRON ROD W/CAP | CP10 |
| | 95+67.54 | RTE TT | 0.60 | 1,136,385.44 | 1,676,711.22 | 764.71 | CUT X IN CONCRETE SIDEWALK | CP11 |
| ALIGNMENTS | | | | | | | | |
| | 100+00 | RTE WW | CL | 1,133,747.40 | 1,698,167.08 | | BEGIN POINT | |
| | 118+60.91 | RTE WW | CL | 1,133,595.13 | 1,700,021.75 | | END POINT | |
| | 200+00 | RTE WW | CL | 1,133,531.03 | 1,700,325.54 | | BEGIN POINT | |
| | 206+81 | RTE WW | CL | 1,133,145.39 | 1,700,873.16 | | END POINT | |
| | 159+39.2 | RTE WW | CL | 1,128,830.05 | 1,708,292.11 | | BEGIN POINT | |
| | 174+00 | RTE WW | CL | 1,127,756.49 | 1,709,282.76 | | PC | |
| | 181+58.89 | RTE WW | CL | 1,127,273.03 | 1,709,864.84 | | END POINT | |
| | 34+00 | RTE TT | CL | 1,136,423.03 | 1,676,361.12 | | BEGIN POINT | |
| | 52+74.9 | RTE TT | CL | 1,136,610.37 | 1,674,495.61 | | POT | |
| | 70+00 | RTE TT | CL | 1,136,805.17 | 1,672,781.54 | | END POINT | |
| | 92+55.16 | RTE TT | CL | 1,136,417.39 | 1,676,400.48 | | BEGIN POINT | |
| | 100+00 | RTE TT | CL | 1,136,342.65 | 1,677,141.56 | | END POINT | |

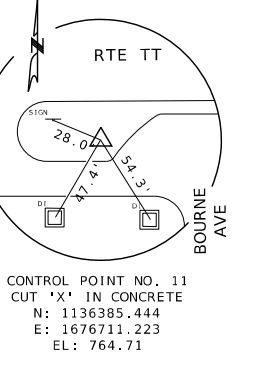
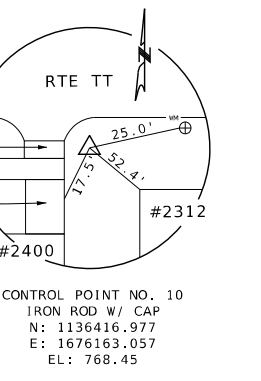
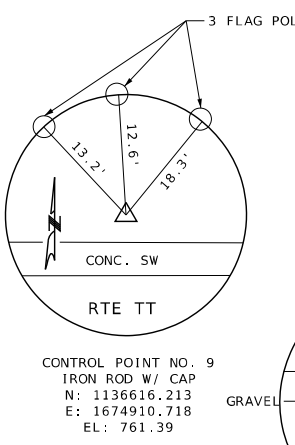
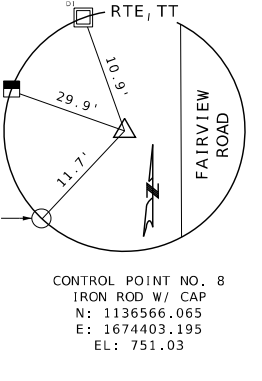
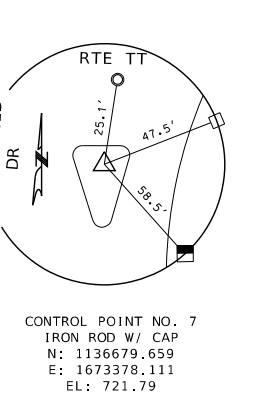
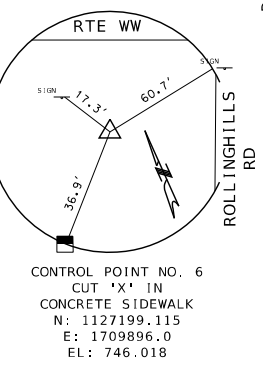
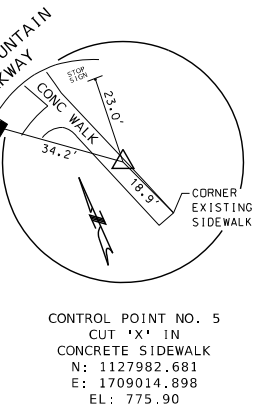
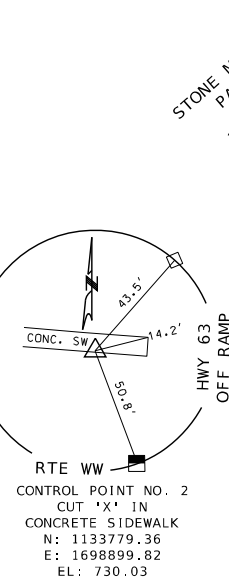
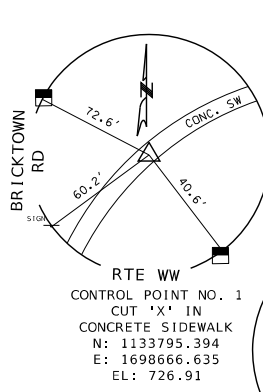
DATE PREPARED
12/29/2024
ROUTE
VARIOUS
STATE
MO
DISTRICT
CD
SHEET NO.
30

COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

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

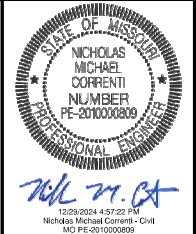


REFERENCE / COORDINATE POINTS
COLUMBIA
SHEET 1 OF 6

NOT TO SCALE

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Civil Engineering Design
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St. Louis, MO 63021
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DATE PREPARED
 12/29/2024
 ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 31
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION
 COORDINATE SYSTEM MODIFIED MISSOURI STATE PLANE
 HORIZONTAL DATUM NAD 83 (2011) (EPOCH 2010)
 VERTICAL DATUM NAVD 88: GNSS DERIVED
 GEOD MODEL 18
 ELEVATIONS DETERMINED BY GNS DERIVED
 PROJECT PROJECTION FACTOR 1.00009405

REFERENCE CONTROL INFORMATION
 COORDINATE SYSTEM MISSOURI COORDINATE SYSTEM OF 1983
 CONTROL STATION MISSOURI CORS
 DESIGNATION MODOT COLUMBIA CORS ARP
 CORS_ID MOCO
 PID DN4500
 LATITUDE 38° 59' 32.00211" (N)
 LONGITUDE 92° 17' 04.88566" (W)
 NORTHING (M) 350,589.515
 EASTING (M) 518,652.298
 ZONE CENTRAL
 PROJECT AVERAGE GRID FACTOR 0.999905957

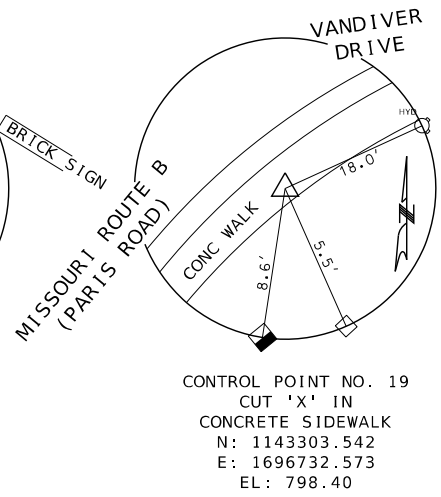
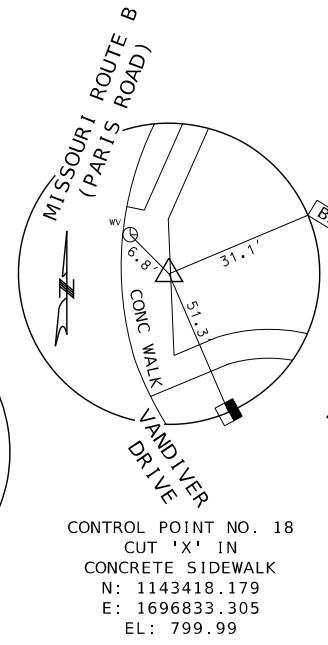
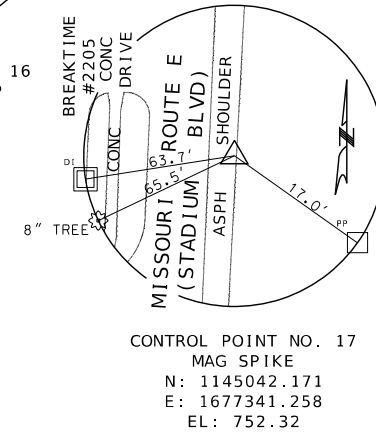
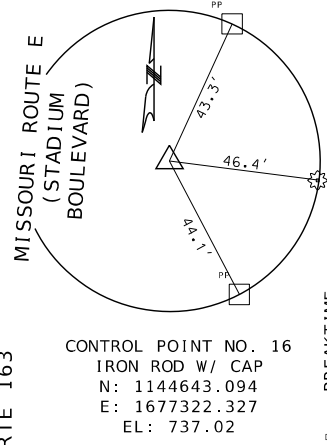
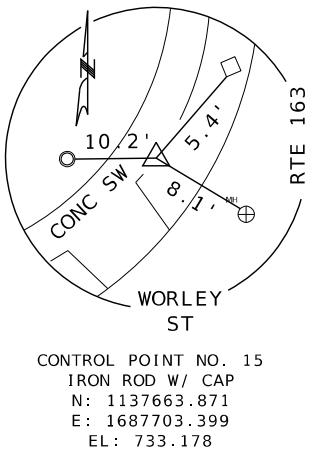
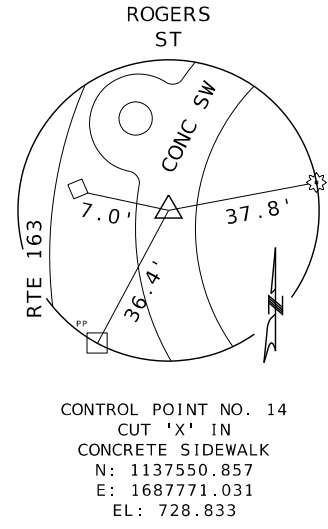
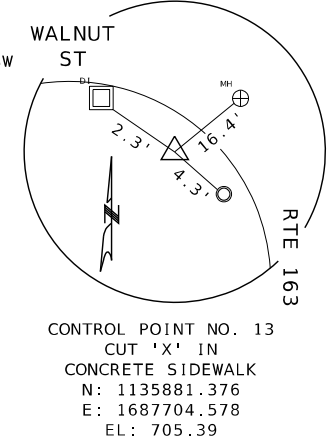
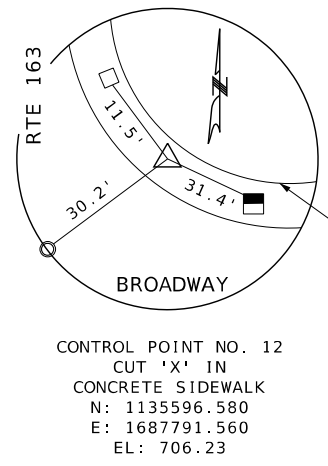
EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

EXAMPLE: CONTROL POINT #1
 N 1117337.107 X 0.99998069 = N 1117315.531
 E 548122.702 X 0.99998069 = E 548112.118

LINEAR UNIT CONVERSION
 1 METER = 3.280833333 US SURVEY FEET (USFT)

| COORDINATE POINT LISTING | | | | | | | | |
|-------------------------------|------------|----------|---------------|-------------------------------|------------------------|--------------------------|----------------------------|--------------|
| PLAN SHEET NO | STATION | LOCATION | OFFSET (USFT) | MODIFIED STATE PLANE (GROUND) | | | DESCRIPTION | GPK POINT ID |
| | | | | NORTHING (US SURVEY FT) | EASTING (US SURVEY FT) | ELEVATION (US SURVEY FT) | | |
| PROJECT CONTROL POINTS | | | | | | | | |
| | 46+65.72 | RTE 163 | 45.00 | 1,135,596.58 | 1,687,791.56 | 706.23 | CUT X IN CONCRETE SIDEWALK | CP 12 |
| | 43+80.56 | RTE 163 | 40.77 | 1,135,881.38 | 1,687,704.58 | 705.39 | CUT X IN CONCRETE SIDEWALK | CP 13 |
| | 27+12.11 | RTE 163 | 38.17 | 1,137,550.59 | 1,687,771.03 | 728.83 | CUT X IN CONCRETE SIDEWALK | CP 14 |
| | 25+99 | RTE 163 | 29.87 | 1,137,663.87 | 1,687,703.40 | 733.18 | IRON ROD W/CAP | CP 15 |
| | 690+04.02 | RTE E | 20 | 1,144,643.09 | 1,677,322.33 | 737.02 | IRON ROD W/CAP | CP 16 |
| | 686+05.05 | RTE E | 21.5 | 1,145,042.17 | 1,677,341.26 | 752.32 | MAG SPIKE | CP 17 |
| | 1191+67.61 | RTE B | 50.5 | 1,143,418.18 | 1,696,833.31 | 799.99 | CUT X IN CONCRETE SIDEWALK | CP 18 |
| | 1193+19.89 | RTE B | 40.5 | 1,143,303.54 | 1,696,732.57 | 798.40 | CUT X IN CONCRETE SIDEWALK | CP 19 |
| ALIGNMENTS | | | | | | | | |
| | 23+14 | RTE 163 | CL | 1,137,949.08 | 1,687,734.09 | | BEGIN POINT | |
| | 29+50 | RTE 163 | CL | 1,137,313.09 | 1,687,732.12 | | END POINT | |
| | 40+00 | RTE 163 | CL | 1,136,262.11 | 1,687,743.73 | | START POINT | |
| | 47+37.9 | RTE 163 | CL | 1,135,524.21 | 1,687,746.88 | | END POINT | |
| | 681+32.66 | RTE E | CL | 1,145,515.01 | 1,677,343.08 | | BEGIN POINT | |
| | 685+97.29 | RTE E | CL | 1,145,050.95 | 1,677,320.10 | | POT | |
| | 689+73.35 | RTE E | CL | 1,144,675.21 | 1,677,304.70 | | POT | |
| | 692+98.04 | RTE E | CL | 1,144,351.45 | 1,677,280.19 | | END POINT | |
| | 1191+65 | RTE B | CL | 1,143,451.03 | 1,696,794.84 | | BEGIN POINT | |
| | 1196+00 | RTE B | CL | 1,143,106.12 | 1,696,529.78 | | END POINT | |



REFERENCE / COORDINATE POINTS
 COLUMBIA
 SHEET 2 OF 6

NOT TO SCALE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
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PROJECT COORDINATE INFORMATION

| | |
|---------------------------|-------------------------------|
| COORDINATE SYSTEM | MODIFIED MISSOURI STATE PLANE |
| HORIZONTAL DATUM | NAD 83 (2011) (EPOCH 2010) |
| VERTICAL DATUM | NAVD 88: GNSS DERIVED |
| GEOID MODEL | 18 |
| ELEVATIONS DETERMINED BY | GNSS DERIVED |
| PROJECT PROJECTION FACTOR | 1.00009812 |

REFERENCE CONTROL INFORMATION

| | |
|-----------------------------|------------------------------------|
| COORDINATE SYSTEM | MISSOURI COORDINATE SYSTEM OF 1983 |
| CONTROL STATION | MISSOURI CORS |
| DESIGNATION | MODOT COLUMBIA CORS ARP |
| CORS_ID | MOCO |
| PID | DN4500 |
| LATITUDE | 38°59'32.00211" (N) |
| LONGITUDE | 92°17'04.88566" (W) |
| NORTHING (M) | 350,589.515 |
| EASTING (M) | 518,652.298 |
| ZONE | CENTRAL |
| PROJECT AVERAGE GRID FACTOR | 0.999901887 |

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

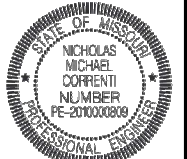
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

EXAMPLE: CONTROL POINT #1
 N 1117337.107 X 0.99998069 = N 1117315.531
 E 548122.702 X 0.99998069 = E 548112.118

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

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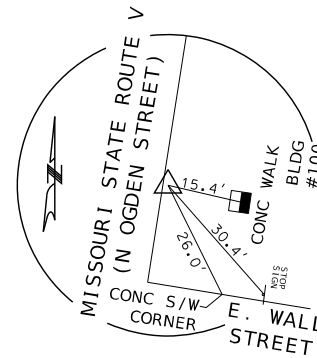


12/29/2024 4:57:52 PM
 Nicholas Michael Correnti - Civil
 MO PE-201000809

| | |
|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 32 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

COORDINATE POINT LISTING

| SHEET NO | STATION | LOCATION | OFFSET (USFT) | MODIFIED STATE PLANE (GROUND) | | | DESCRIPTION | GPK POINT ID |
|-------------------------------|----------|----------|---------------|-------------------------------|------------------------|--------------------------|-------------|--------------|
| | | | | NORTHING (US SURVEY FT) | EASTING (US SURVEY FT) | ELEVATION (US SURVEY FT) | | |
| PROJECT CONTROL POINTS | | | | | | | | |
| | 44+19.89 | RTE V | 18.61 | 1,238,431.73 | 1,702,722.50 | 850.49 | MAG SPIKE | CP 27 |
| | 53+66 | RTE V | 16.18 | 1,239,371.82 | 1,702,834.92 | 838.78 | MAG SPIKE | CP 28 |
| ALIGNMENTS | | | | | | | | |
| | 44+05.5 | RTE V | CL | 1,239,383.22 | 1,702,855.51 | | BEGIN POINT | |
| | 50+71 | RTE V | CL | 1,238,725.44 | 1,702,754.47 | | POT | |
| | 54+07 | RTE V | CL | 1,238,393.88 | 1,702,699.98 | | END POINT | |



CONTROL POINT NO. 27
 MAG SPIKE
 N: 1238431.728
 E: 1702722.498
 EL: 850.490



CONTROL POINT NO. 28
 MAP SPIKE
 N: 1239371.822
 E: 1702834.917
 EL: 838.780

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

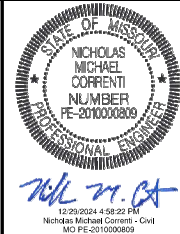
105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

REFERENCE / COORDINATE POINTS
 STURGEON
 SHEET 3 OF 6

NOT TO SCALE

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DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 33

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

| PROJECT COORDINATE INFORMATION | |
|--------------------------------|-------------------------------|
| COORDINATE SYSTEM | MODIFIED MISSOURI STATE PLANE |
| HORIZONTAL DATUM | NAD 83 (2011) (EPOCH 2010) |
| VERTICAL DATUM | NAVD 88: GNSS DERIVED |
| GEOID MODEL | 18 |
| ELEVATIONS DETERMINED BY | GNSS DERIVED |
| PROJECT PROJECTION FACTOR | 1.00008563 |

| REFERENCE CONTROL INFORMATION | |
|-------------------------------|------------------------------------|
| COORDINATE SYSTEM | MISSOURI COORDINATE SYSTEM OF 1983 |
| CONTROL STATION | MISSOURI CORS |
| DESIGNATION | MODOT BOONEVILLE CORS ARP |
| CORS_ID | MOBO |
| PID | DN6077 |
| LATITUDE | 38° 55' 52.53367"(N) |
| LONGITUDE | 92° 46' 43.65919"(W) |
| NORTHING (M) | 343,837.027 |
| EASTING (M) | 475,827.300 |
| ZONE | CENTRAL |

PROJECT AVERAGE GRID FACTOR 0.999914379

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

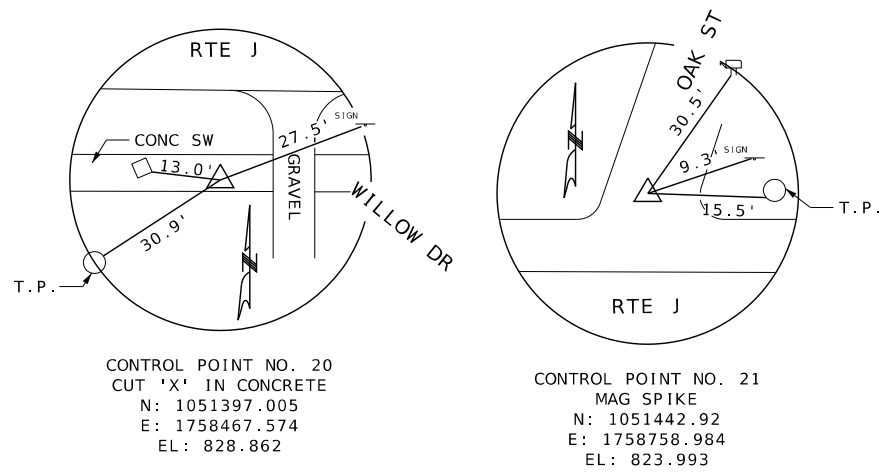
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

EXAMPLE: CONTROL POINT #1
 N 1117337.107 X 0.99998069 = N 1117315.531
 E 548122.702 X 0.99998069 = E 548112.118

LINEAR UNIT CONVERSION
 1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

| PLAN SHEET NO | STATION | LOCATION | OFFSET (USFT) | MODIFIED STATE PLANE (GROUND) | | | DESCRIPTION | GPK POINT ID |
|------------------------|-----------|----------|---------------|-------------------------------|------------------------|--------------------------|-------------|--------------|
| | | | | NORTHING (US SURVEY FT) | EASTING (US SURVEY FT) | ELEVATION (US SURVEY FT) | | |
| PROJECT CONTROL POINTS | | | | | | | | |
| | 980+28.47 | RTE J | 25.6 | 1,051,397.01 | 1,758,467.57 | 828.86 | MAG SPIKE | CP 20 |
| | 983+17.83 | RTE J | 32.44 | 1,051,442.92 | 1,758,758.98 | 823.99 | MAG SPIKE | CP 21 |
| ALIGNMENTS | | | | | | | | |
| | 978+00 | RTE J | CL | 1,051,429.99 | 1,758,240.06 | | BEGIN POINT | |
| | 980+74.87 | RTE J | CL | 1,051,421.04 | 1,758,514.78 | | POT | |
| | 989+09.2 | RTE J | CL | 1,051,384.89 | 1,759,348.32 | | END POINT | |



DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

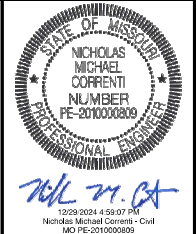
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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REFERENCE / COORDINATE POINTS
 NEW BLOOMFIELD
 SHEET 4 OF 6

NOT TO SCALE

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DATE PREPARED
 12/29/2024
 ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 34
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION

| | |
|---------------------------|-------------------------------|
| COORDINATE SYSTEM | MODIFIED MISSOURI STATE PLANE |
| HORIZONTAL DATUM | NAD 83 (2011) (EPOCH 2010) |
| VERTICAL DATUM | NAVD 88: GNSS DERIVED |
| GEOID MODEL | 18 |
| ELEVATIONS DETERMINED BY | GNSS DERIVED |
| PROJECT PROJECTION FACTOR | 1.00006629 |

REFERENCE CONTROL INFORMATION

| | |
|-----------------------------|------------------------------------|
| COORDINATE SYSTEM | MISSOURI COORDINATE SYSTEM OF 1983 |
| CONTROL STATION | MISSOURI CORS |
| DESIGNATION | MODOT DRAKE CORS ARP |
| CORS_ID | MODR |
| PID | DL6300 |
| LATITUDE | 38° 27' 45.47416" (N) |
| LONGITUDE | 91° 27' 54.94360" (W) |
| NORTHING (M) | 292,222.724 |
| EASTING (M) | 165,758.736 |
| ZONE | CENTRAL |
| PROJECT AVERAGE GRID FACTOR | 0.999933713 |

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

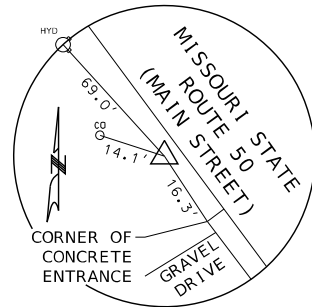
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

EXAMPLE: CONTROL POINT #1
 N 1117337.107 X 0.99998069 = N 1117315.531
 E 548122.702 X 0.99998069 = E 548112.118

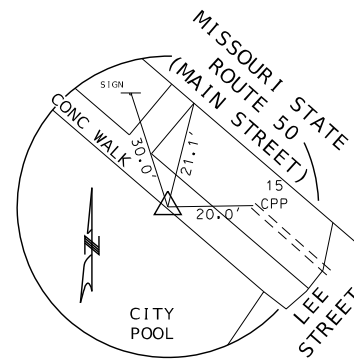
LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

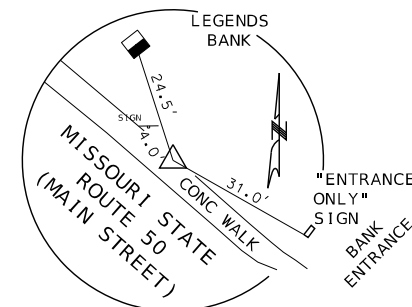
| COORDINATE POINT LISTING | | | | | | | | |
|-------------------------------|-----------|----------|---------------|-------------------------------|------------------------|--------------------------|-------------------|--------------|
| PLAN SHEET NO | STATION | LOCATION | OFFSET (USFT) | MODIFIED STATE PLANE (GROUND) | | | DESCRIPTION | GPK POINT ID |
| | | | | NORTHING (US SURVEY FT) | EASTING (US SURVEY FT) | ELEVATION (US SURVEY FT) | | |
| PROJECT CONTROL POINTS | | | | | | | | |
| | 592+15.65 | RTE 50 | 21.17 | 963,584.58 | 1,829,352.07 | 927.05 | CUT X IN CONCRETE | CP 22 |
| | 598+60.03 | RTE 50 | 34.9 | 963,101.86 | 1,829,784.45 | 947.03 | CUT X IN CONCRETE | CP 23 |
| | 607+65.43 | RTE 50 | 27.9 | 962,601.63 | 1,830,546.35 | 961.78 | CUT X IN CONCRETE | CP 24 |
| ALIGNMENTS | | | | | | | | |
| | 588+00 | RTE 50 | CL | 963,932.79 | 1,829,124.11 | | BEGIN POINT | |
| | 593+47.6 | RTE 50 | CL | 963,490.49 | 1,829,446.97 | | PC | |
| | 596+62.18 | RTE 50 | CL | 963,362.91 | 1,829,540.10 | | PT | |
| | 598+54.48 | RTE 50 | CL | 963,131.79 | 1,829,803.28 | | PC | |
| | 602+06.71 | RTE 50 | CL | 962,911.89 | 1,830,078.28 | | PT | |
| | 606+82.51 | RTE 50 | CL | 962,632.18 | 1,830,463.18 | | PC | |
| | 610+38.34 | RTE 50 | CL | 962,374.68 | 1,830,706.01 | | END POINT | |



CONTROL POINT NO. 22
 CUT 'X' IN CONCRETE
 N: 963584.583
 E: 1829352.067
 EL: 927.05



CONTROL POINT NO. 23
 CUT 'X' IN CONCRETE
 N: 963101.859
 E: 1829784.450
 EL: 947.03



CONTROL POINT NO. 24
 CUT 'X' IN CONCRETE
 N: 962601.634
 E: 1830546.352
 EL: 961.78

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

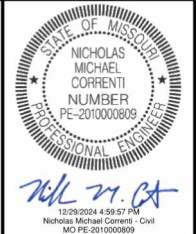


EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

REFERENCE / COORDINATE POINTS
 LINN
 SHEET 5 OF 6

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| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 35 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

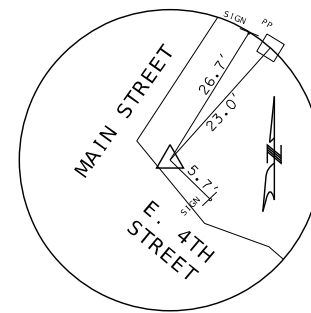
| PROJECT COORDINATE INFORMATION | |
|--------------------------------|-------------------------------|
| COORDINATE SYSTEM | MODIFIED MISSOURI STATE PLANE |
| HORIZONTAL DATUM | NAD 83 (2011) (EPOCH 2010) |
| VERTICAL DATUM | NAVD 88: GNSS DERIVED |
| GEOID MODEL | 18 |
| ELEVATIONS DETERMINED BY | GNSS DERIVED |
| PROJECT PROJECTION FACTOR | 1.00006259 |

| REFERENCE CONTROL INFORMATION | |
|-------------------------------|------------------------------------|
| COORDINATE SYSTEM | MISSOURI COORDINATE SYSTEM OF 1983 |
| CONTROL STATION | MISSOURI CORS |
| DESIGNATION | MODOT ST ROBERT CORS ARP |
| CORS_ID | MOSR |
| PID | DL6906 |
| LATITUDE | 37° 49' 14.66192" (N) |
| LONGITUDE | 92° 09' 15.38868" (W) |
| NORTHING (M) | 220,592.877 |
| EASTING (M) | 530,437.695 |
| ZONE | CENTRAL |
| PROJECT AVERAGE GRID FACTOR | 0.999937411 |

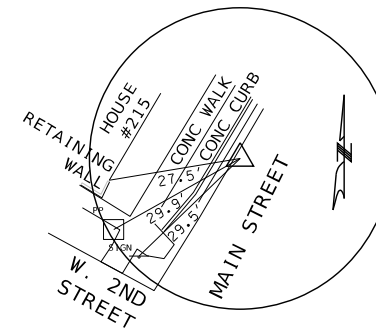
EXAMPLE OF PROJECT COORDINATE TO S.P.C.
 PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING
 EXAMPLE: CONTROL POINT #1
 N 1117337.107 X 0.99998069 = N 1117315.531
 E 548122.702 X 0.99998069 = E 548112.118

LINEAR UNIT CONVERSION
 1 METER = 3.280833333 US SURVEY FEET (USFT)

| COORDINATE POINT LISTING | | | | | | | | |
|--------------------------|----------|----------|---------------|-------------------------------|------------------------|--------------------------|----------------|--------------|
| PLAN SHEET NO | STATION | LOCATION | OFFSET (USFT) | MODIFIED STATE PLANE (GROUND) | | | DESCRIPTION | GPK POINT ID |
| | | | | NORTHING (US SURVEY FT) | EASTING (US SURVEY FT) | ELEVATION (US SURVEY FT) | | |
| PROJECT CONTROL POINTS | | | | | | | | |
| | 20+98.35 | RTE T | 16.8 | 758,815.44 | 1,813,235.11 | 722.66 | IRON ROD W/CAP | CP 29 |
| | 14+10.77 | RTE T | 13.78 | 758,240.01 | 1,812,857.52 | 717.79 | MAG SPIKE | CP 30 |
| ALIGNMENTS | | | | | | | | |
| | 10+00 | RTE T | | 757,879.82 | 1,812,659.55 | | BEGIN POINT | |
| | 24+06.9 | RTE T | | 759,089.27 | 1,813,378.30 | | END POINT | |



CONTROL POINT NO. 29
 IRON ROD W/ CAP
 N: 758815.441
 E: 1813235.108
 EL: 722.66



CONTROL POINT NO. 30
 MAG SPIKE
 N: 758240.005
 E: 1812857.516
 EL: 717.79

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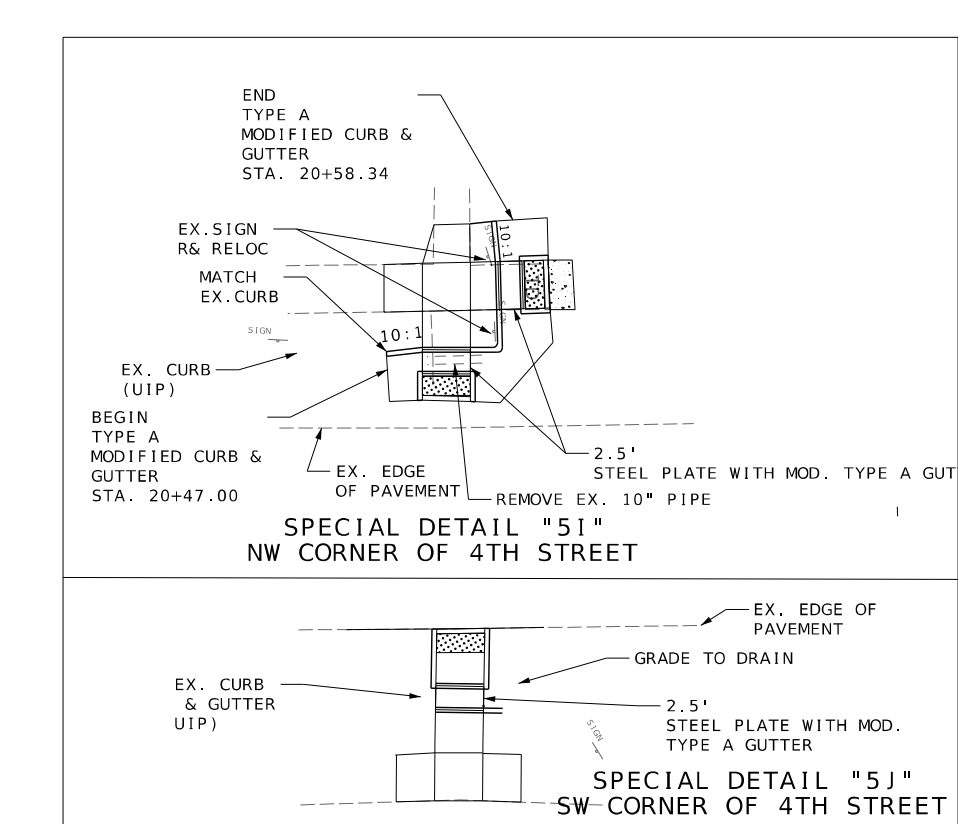
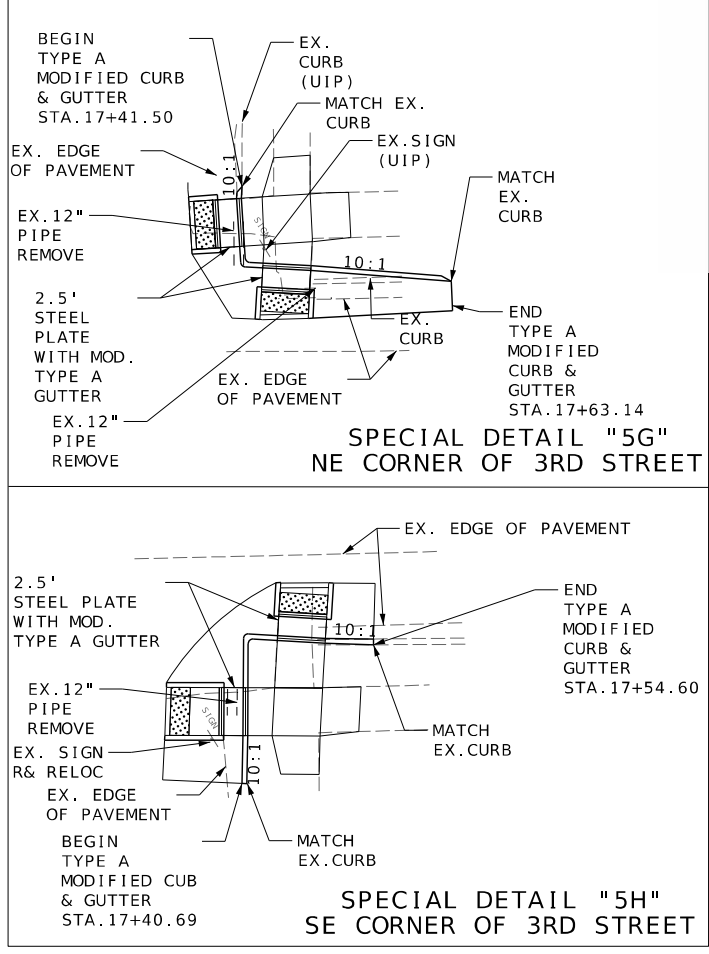
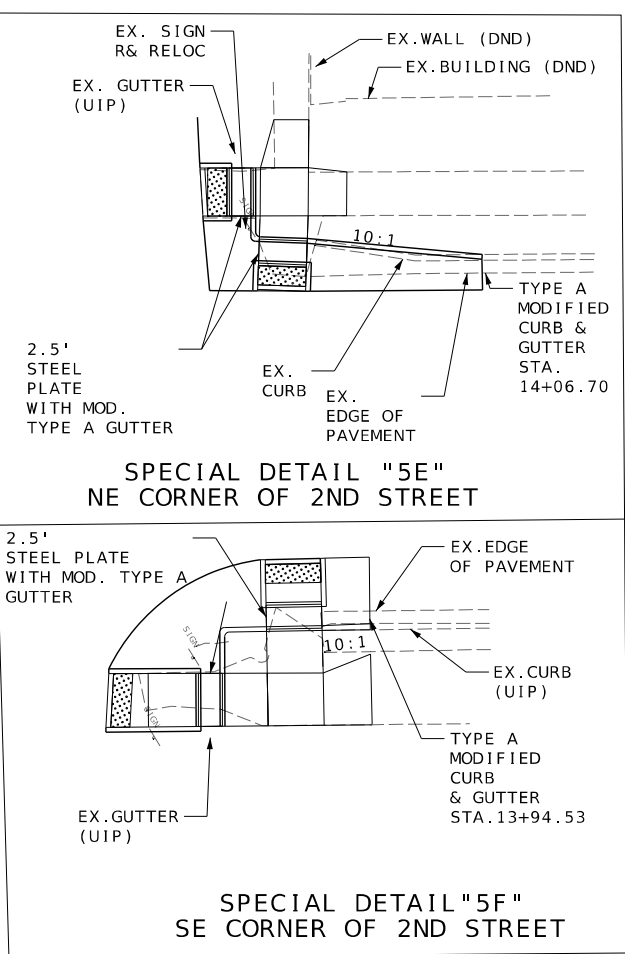
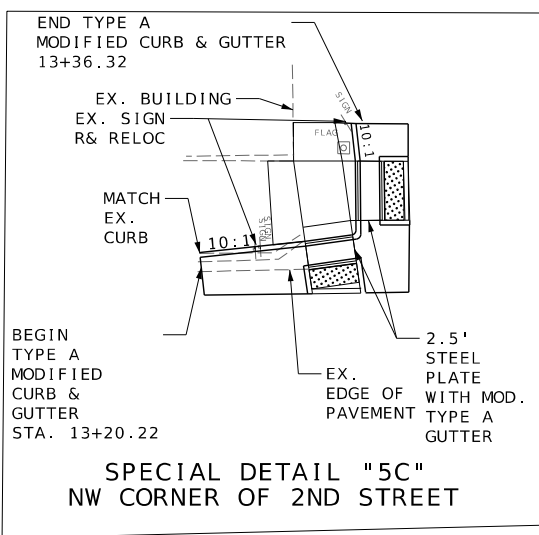
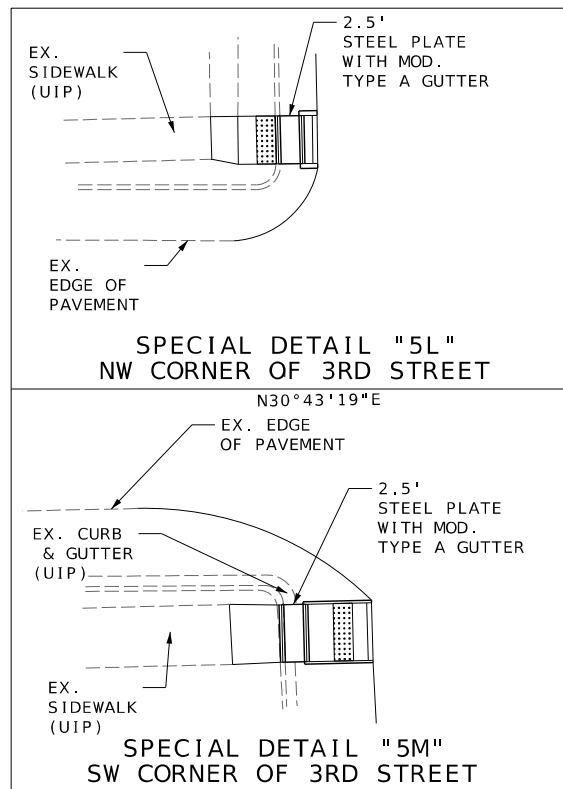
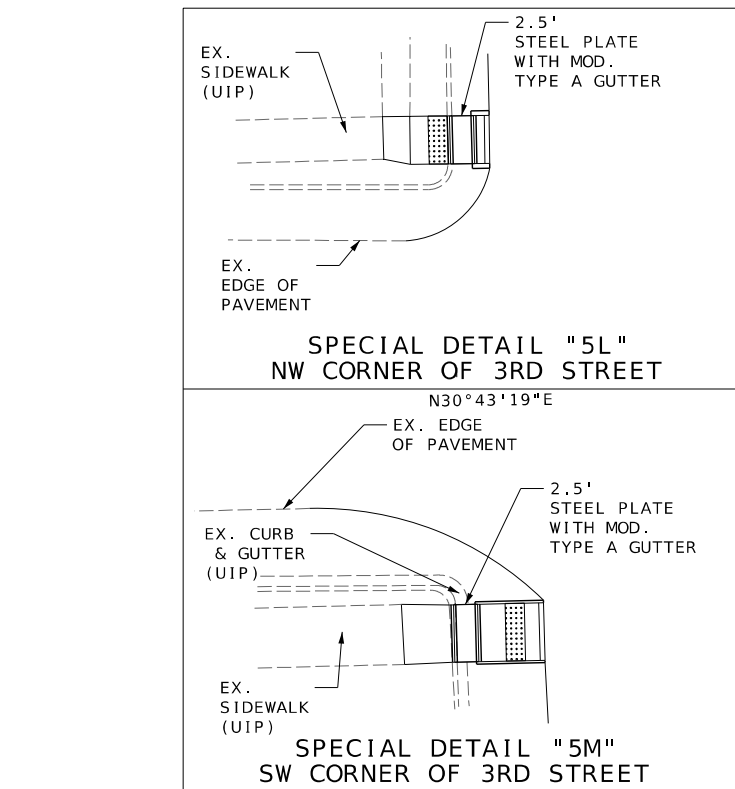
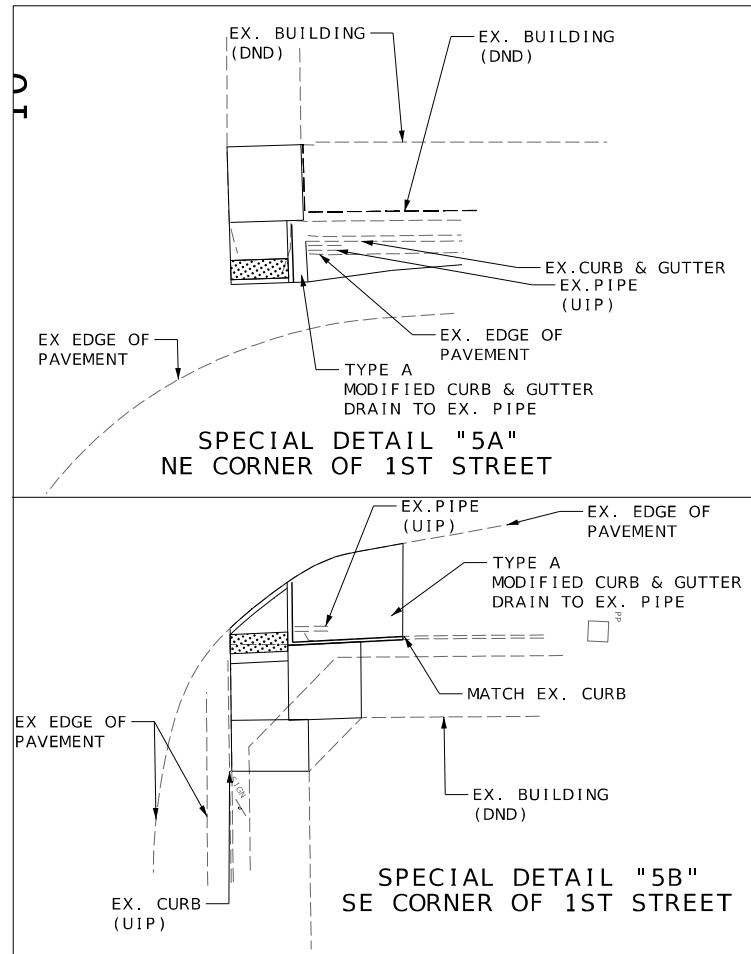
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

REFERENCE / COORDINATE POINTS
 NEWBURG
 SHEET 6 OF 6

NOT TO SCALE



SPECIAL SHEET
LOCATION 5- NEWBURG
ROUTE T
SHEET 1 OF 1



NML M. CA
12/29/2024 & 17:37 PM
Nicholas Michael Correnti - CIVIL
MO PE-201000809

DATE PREPARED 12/29/2024
ROUTE STATE VARIOUS MO
DISTRICT SHEET NO. CD 36
COUNTY VARIOUS
JOB NO. JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|-------------|------|
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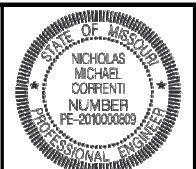
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

MODIFIED TYPE A CURB/GUTTER WITH STEEL PLATE CONSTRUCTION DETAILS

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EFFECTIVE: 06-08-2016
REVISED (ADA): 01-04-2017



Nick M. Correnti
12/29/2024 5:00:56 PM
Nicholas Michael Correnti - CIVIL
MO PE-2010000809

DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 37

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

| SPEED MPH (S) | NON-DIVIDED HIGHWAYS | DIVIDED HIGHWAYS |
|---------------|----------------------|------------------|
| | 0-35 | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | 1000 FT | 1000 FT |

TRAFFIC CONTROL LEGEND



WORK ZONE
NO PHONE ZONE

CONST-8
(60)



W020-1
48"X48"
(2A)



W020-1
48"X48"
(2)



(AWRS)
ADVANCED
WARNING
RAIL SYSTEM

SIGN (2A) WITH AWRS MUST BE GROUND OR SKID MOUNTED.

GENERAL NOTES:

- ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
- ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
- SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
- SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
- TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
- NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
- NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
- THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
- ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
- PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
- SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

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

(2) THE "RATE OUR WORK ZONE" SIGN IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS, THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, THIS SIGN WILL BE OUTSIDE OF THE PROJECT LIMITS.

THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48" X 24" SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR A SIX FOOT WIDE SIGN. THE 72" X 36" VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48" X 24" SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

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BEGIN/END OF PROJECT SIGNING MULTI-LANE

TRAFFIC CONTROL
SHEET 1 OF 11

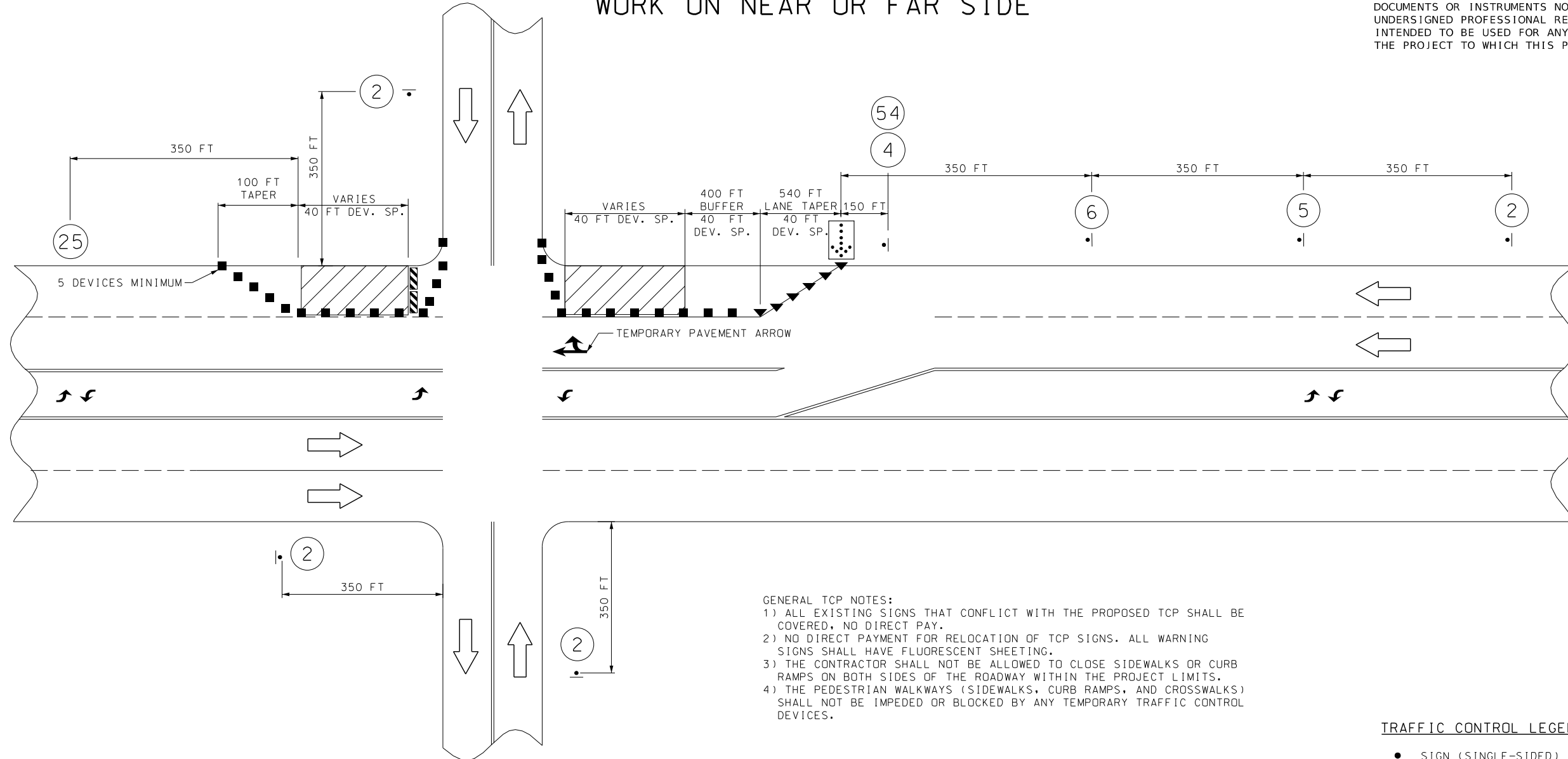
BEGINNING OF PROJECT LIMITS; OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

BEGINNING OF PROJECT LIMITS; OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

NOT TO SCALE

RIGHT LANE CLOSURE AT INTERSECTION WORK ON NEAR OR FAR SIDE

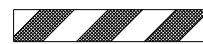
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GENERAL TCP NOTES:
 1) ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED, NO DIRECT PAY.
 2) NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
 3) THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE SIDEWALKS OR CURB RAMPS ON BOTH SIDES OF THE ROADWAY WITHIN THE PROJECT LIMITS.
 4) THE PEDESTRIAN WALKWAYS (SIDEWALKS, CURB RAMPS, AND CROSSWALKS) SHALL NOT BE IMPEDED OR BLOCKED BY ANY TEMPORARY TRAFFIC CONTROL DEVICES.



W020-1
48"x48"



2



W020-6a
48"x48"

6



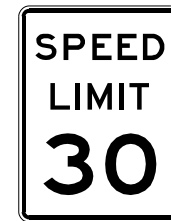
W020-5
48"x48"

5



G020-5aP
36"x24"

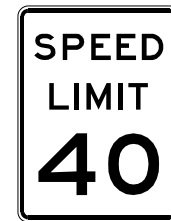
54



R2-1
36"x48"

4

REDUCED SPEED



R2-1
36"x48"

25

NORMAL SPEED

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- ▨ ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- ▤ ARROW PANEL
- ▨ WORK AREA
- ▨ TYPE 3 MOVABLE BARRICADE
- ▼ DIRECTIONAL INDICATOR BARRICADE

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

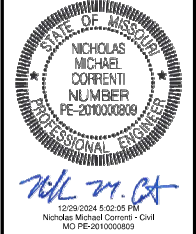
EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

NOT TO SCALE

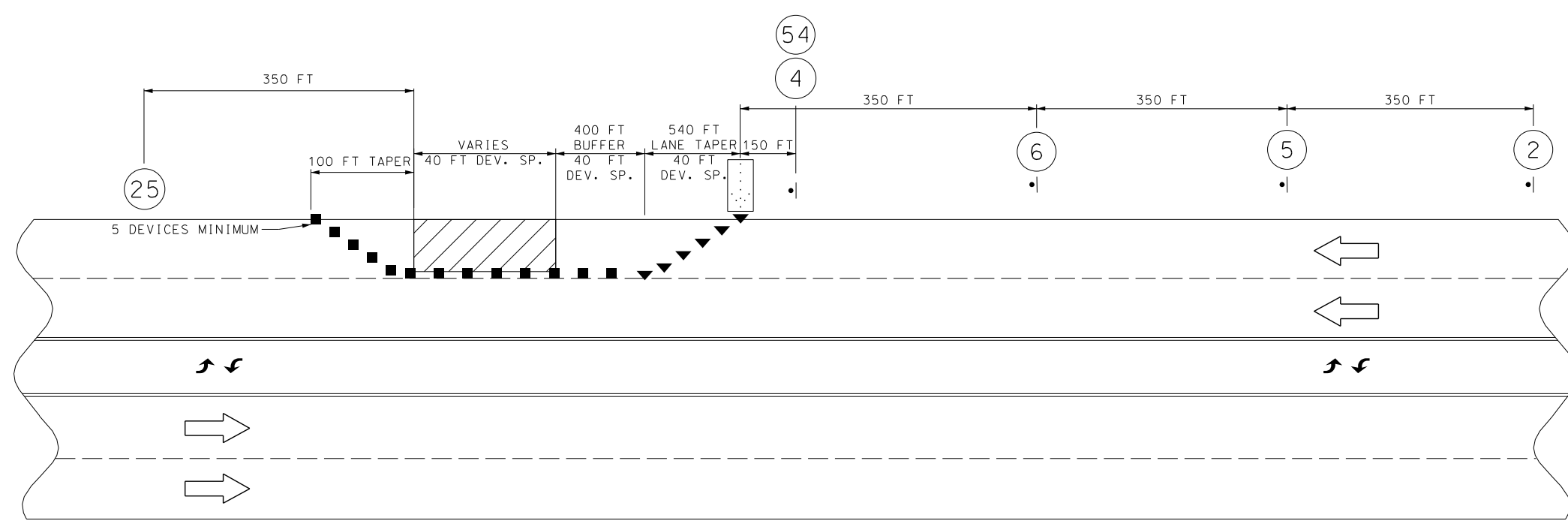
TRAFFIC CONTROL
SHEET 2 OF 11

SINGLE LANE CLOSURE

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|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 39 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
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W020-1
48"x48"



2



W020-5
48"x48"

5



W020-6a
48"x48"

6



R2-1
36"x48"

4

REDUCED SPEED



G020-5aP
36"x24"

54



R2-1
36"x48"

25

NORMAL SPEED

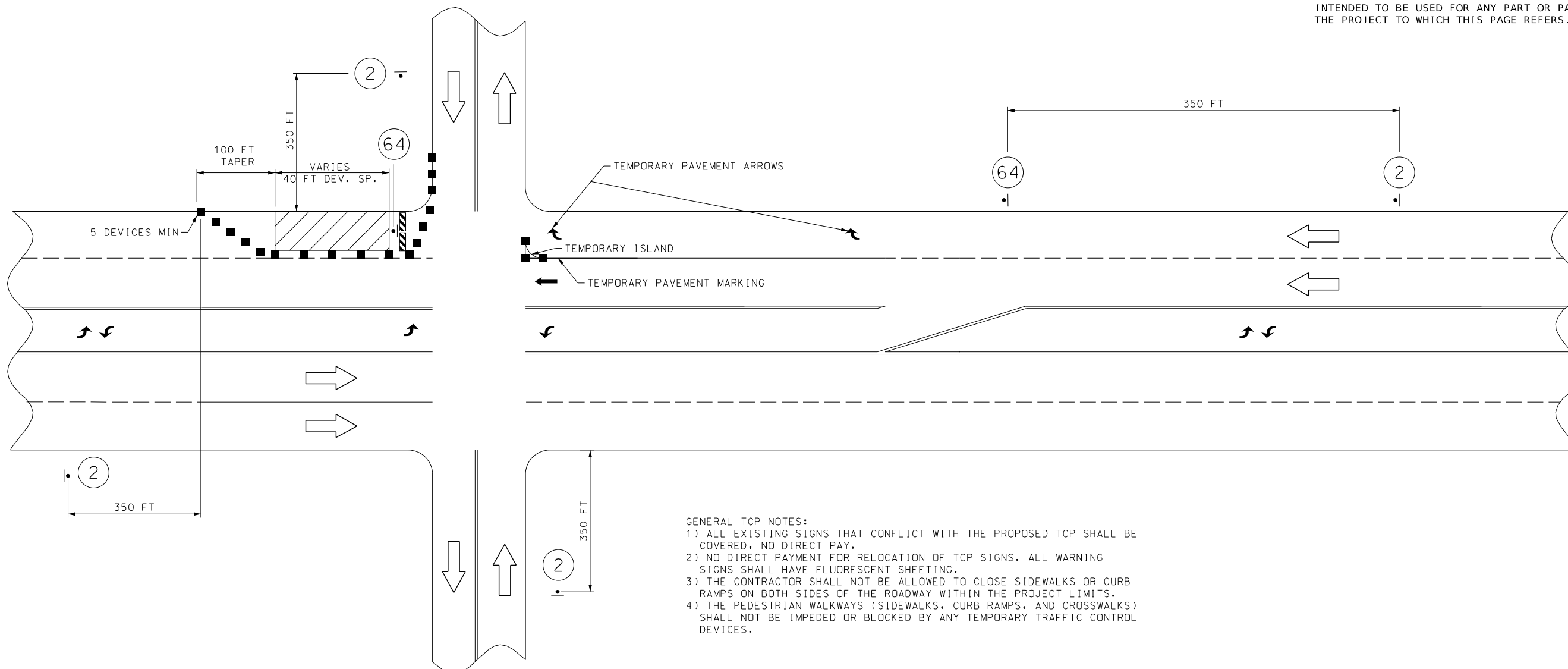
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- ARROW PANEL
- WORK AREA
- TYPE 3 MOVABLE BARRICADE
- DIRECTIONAL INDICATOR BARRICADE

- GENERAL TCP NOTES:
- 1) ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY.
 - 2) NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
 - 3) THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE SIDEWALKS OR CURB RAMPS ON BOTH SIDES OF THE ROADWAY WITHIN THE PROJECT LIMITS.
 - 4) THE PEDESTRIAN WALKWAYS (SIDEWALKS, CURB RAMPS, AND CROSSWALKS) SHALL NOT BE IMPEDED OR BLOCKED BY ANY TEMPORARY TRAFFIC CONTROL DEVICES.

NOT TO SCALE
 TRAFFIC CONTROL SHEET 3 OF 11

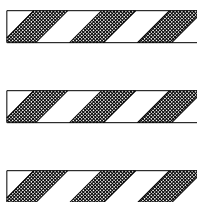
**RIGHT LANE CLOSURE AT
INTERSECTION WORK ON FAR SIDE**



- GENERAL TCP NOTES:**
- 1) ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED, NO DIRECT PAY.
 - 2) NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
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 - 4) THE PEDESTRIAN WALKWAYS (SIDEWALKS, CURB RAMPS, AND CROSSWALKS) SHALL NOT BE IMPEDED OR BLOCKED BY ANY TEMPORARY TRAFFIC CONTROL DEVICES.



W020-1
48"x48"



(2)



R3-7R
30"x30"

(64)

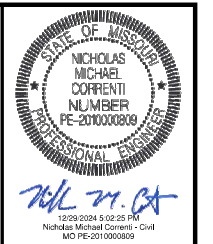
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- ▨ ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- ⋯ ARROW PANEL
- ▨ WORK AREA
- ▩ TYPE 3 MOVABLE BARRICADE
- ▼ DIRECTIONAL INDICATOR BARRICADE

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 11

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DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO
DISTRICT SHEET NO.
CD 40

COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

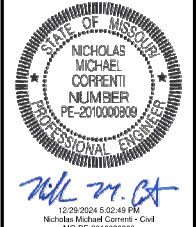
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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RIGHT TURN LANE CLOSURE AT INTERSECTION

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DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 41

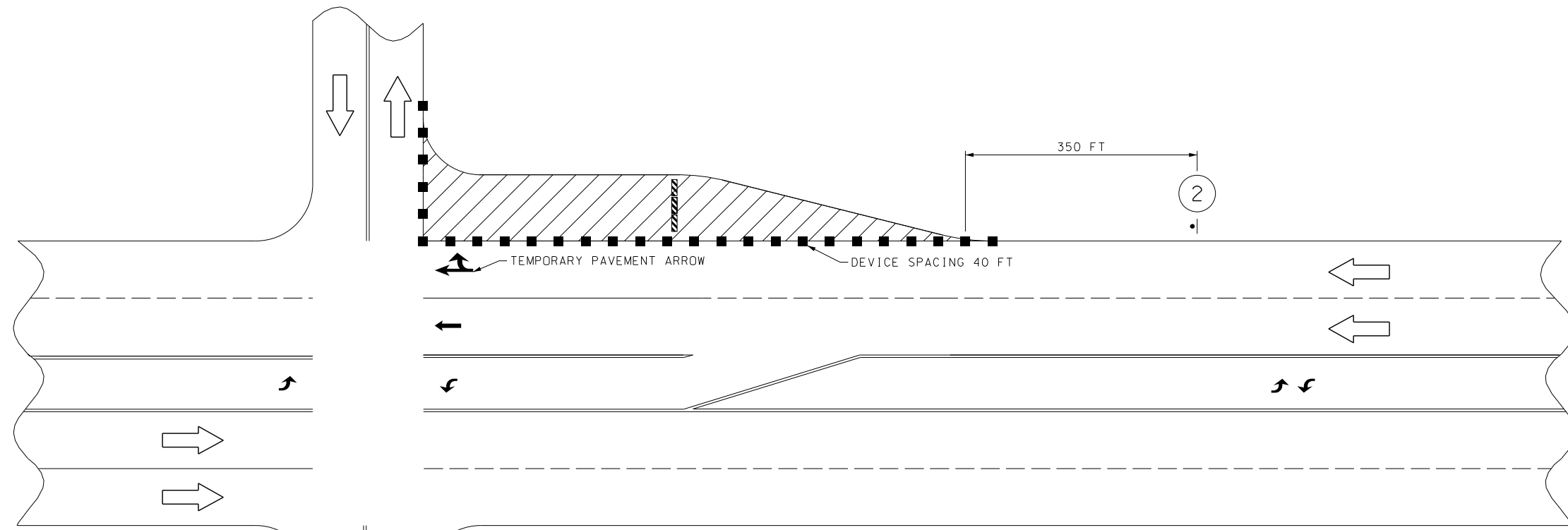
COUNTY
VARIOUS

JOB NO.
JCD0076

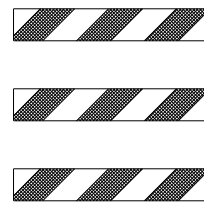
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



W020-1
48" x 48"



2

- GENERAL TCP NOTES:
- 1) ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY.
 - 2) NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
 - 3) THE CONTRACTOR SHALL NOT BE CLOSE SIDEWALKS OR CURB RAMPS ON BOTH SIDES OF THE ROADWAY WITHIN THE PROJECT LIMITS.
 - 4) THE PEDESTRIAN WALKWAYS (SIDEWALKS, CURB RAMPS, AND CROSSWALKS) SHALL NOT BE IMPEDED OR BLOCKED BY ANY TEMPORARY TRAFFIC CONTROL DEVICES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- [Hatched Box] ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- [Arrow Panel Box] ARROW PANEL
- [Hatched Box] WORK AREA
- [Diagonal Lines Box] TYPE 3 MOVABLE BARRICADE

NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 11

| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

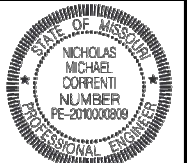
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Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
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SIGNING REFLECTS DAY OR NIGHT TIME WORKING HOURS

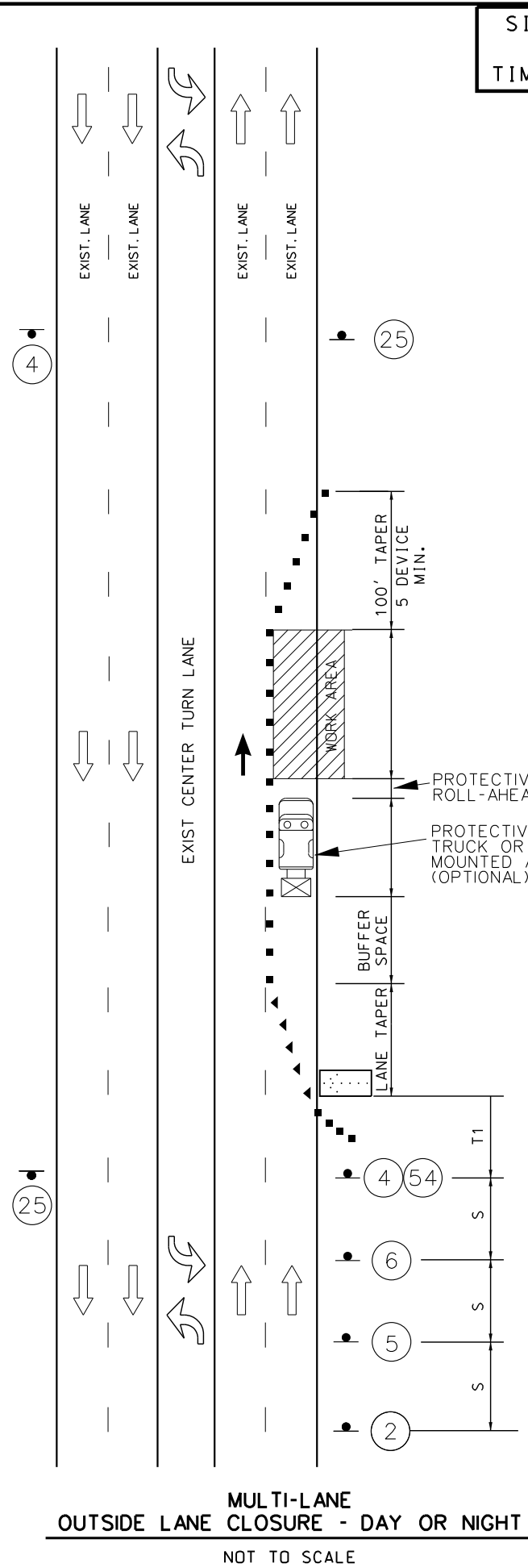
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REVISED (ADA): 12-04-2021

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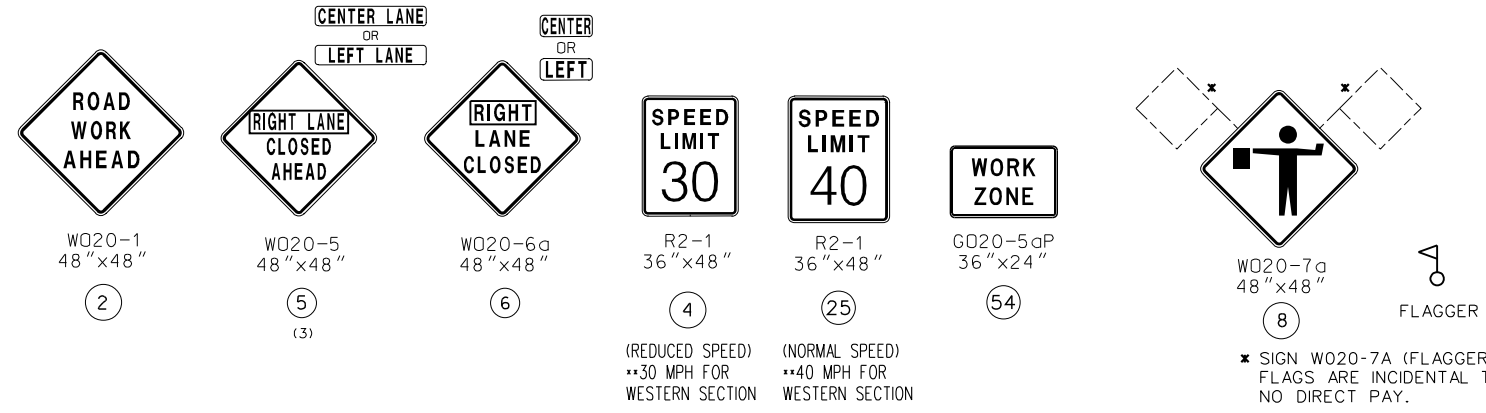


Nick M. Correnti
12/29/2024 5:03:13 PM
Nicholas Michael Correnti - Civil
MO PE-201000809

| | |
|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 42 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |



6 PM - 7 AM
NO LANE CLOSURES
OUTSIDE OF THIS
TIME WINDOW



TRAFFIC CONTROL LEGEND

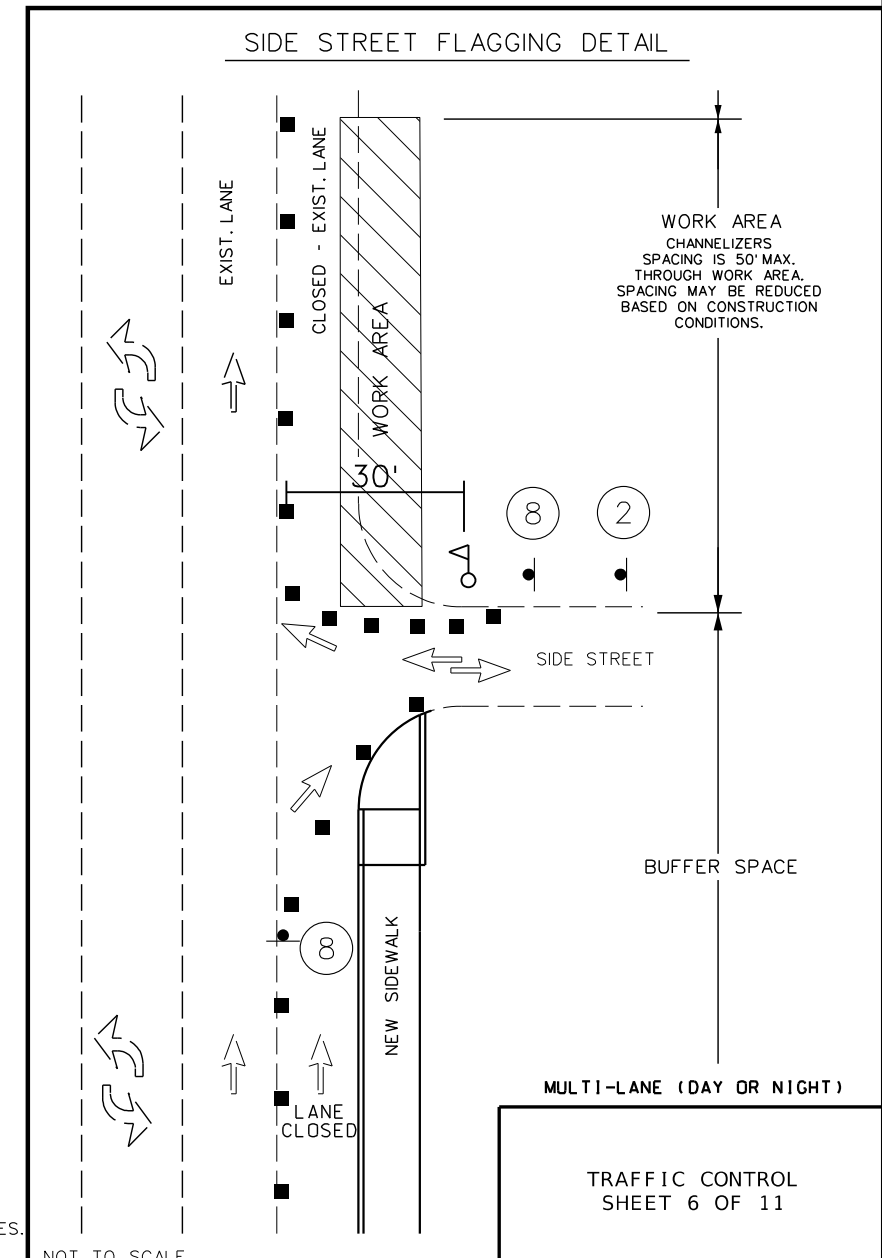
- SIGN (SINGLE-SIDED)
- ▨ ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- ⬆ FLASHING ARROW PANEL
- WORK AREA
- ▨ TYPE 3 MOVABLE BARRICADE
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ☒ TMA

NIGHT TIME WORK HOURS
8 PM - 6 AM

NOTES:

- SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.
- IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)
- NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS, OR FLASHING ARROW PANEL.
- NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN TABLE.
- SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
- ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
- WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.
- LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.
- THE 40' MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

(3) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.



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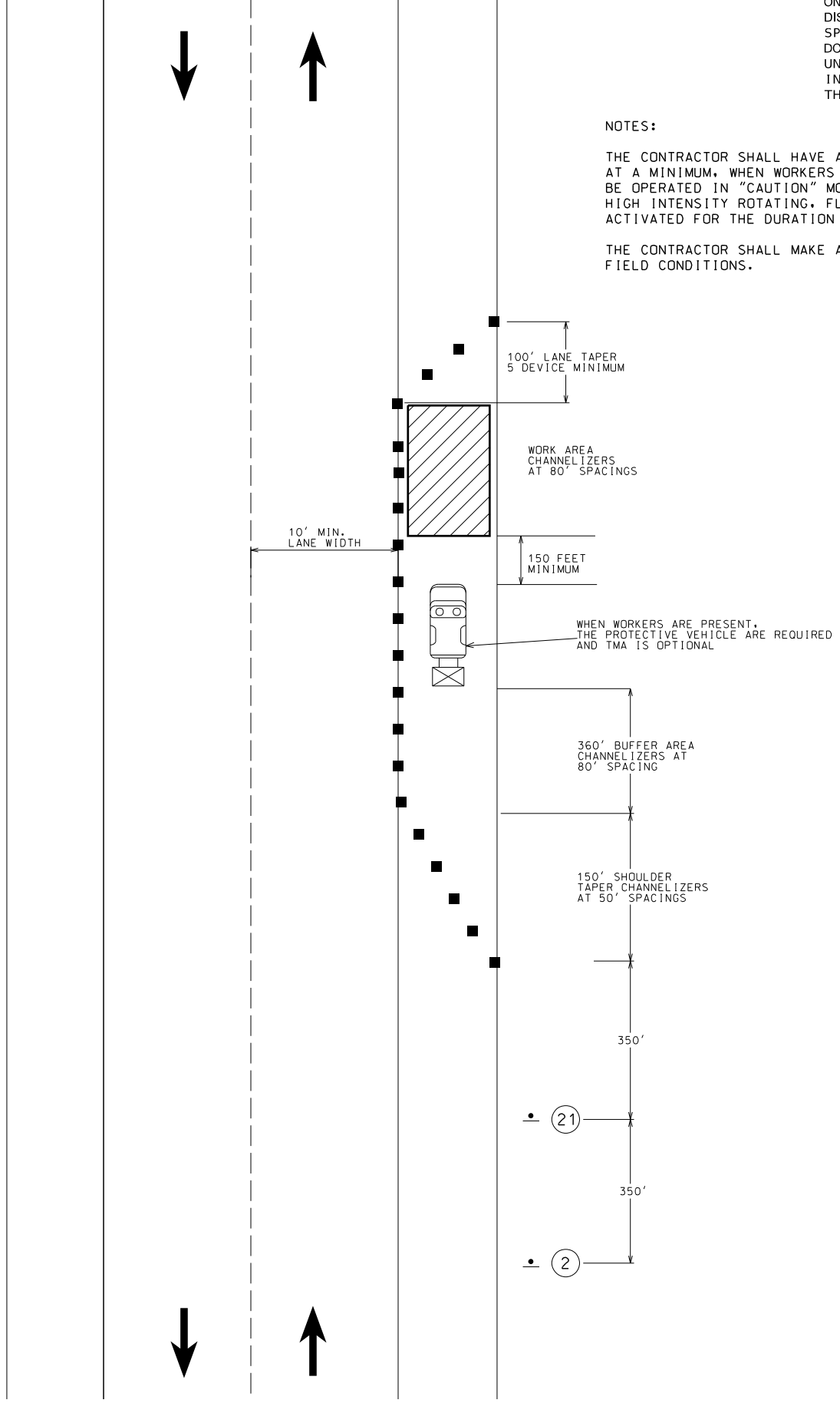
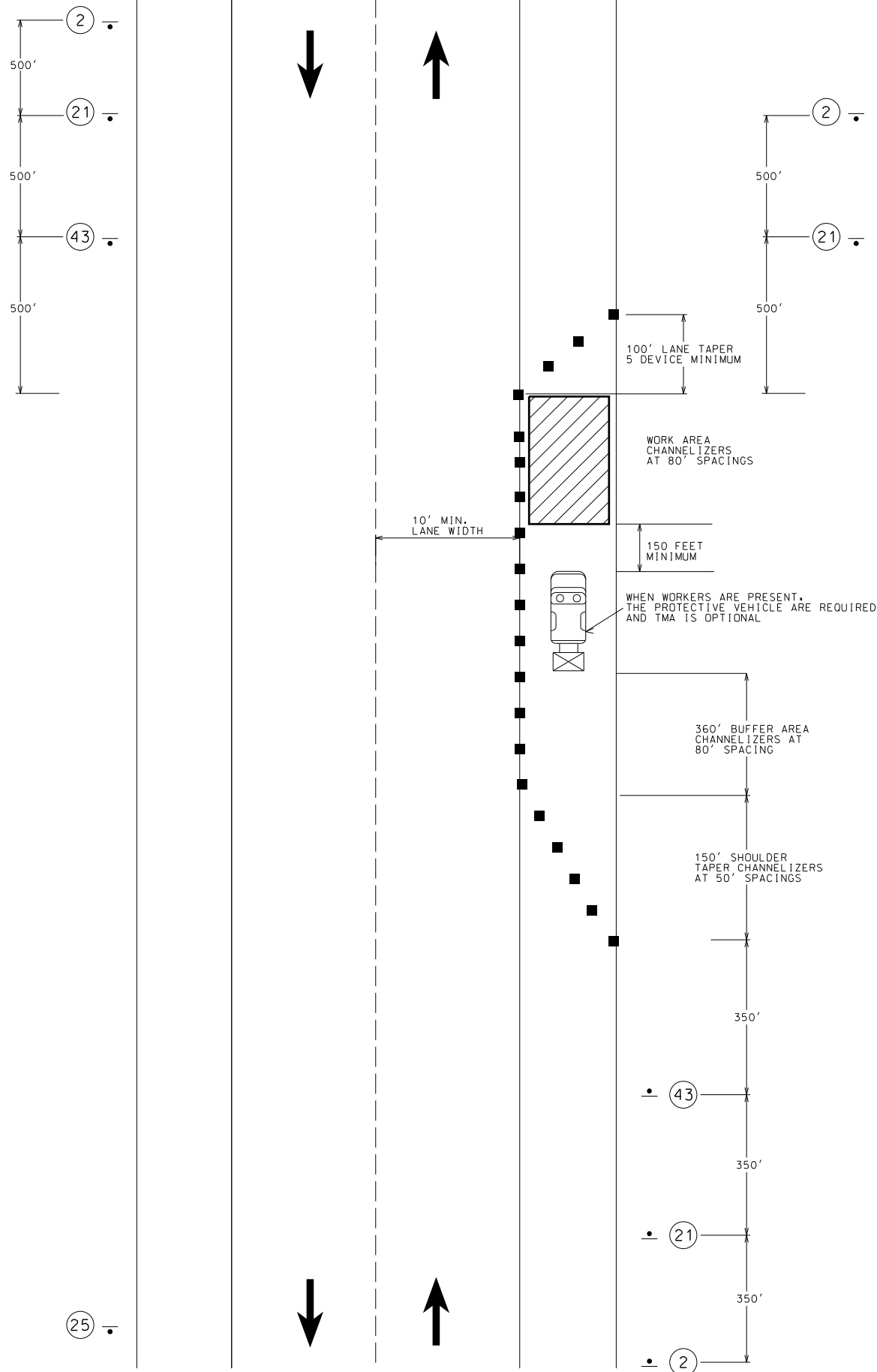
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MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
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SHOULDER WORK WITH MINOR ENCROACHMENT ON
2-LANE UNDIVIDED HIGHWAY

LONG-TERM SHOULDER CLOSURE ON
2-LANE UNDIVIDED HIGHWAY

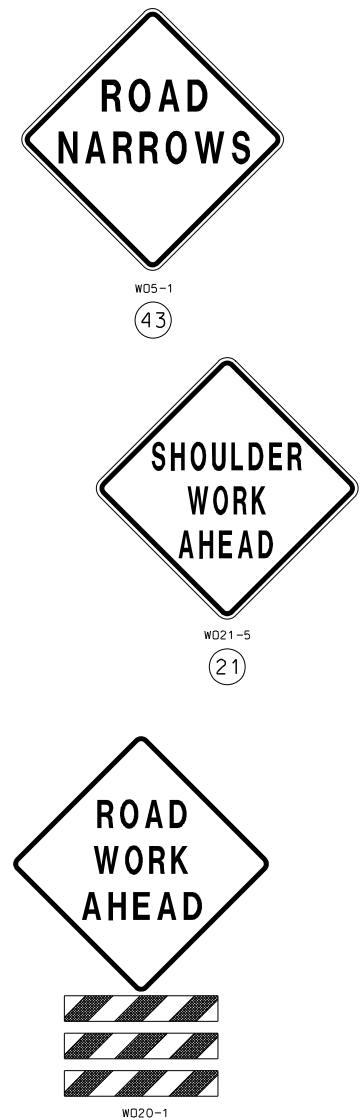
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NOTES:

THE CONTRACTOR SHALL HAVE A PROTECTIVE VEHICLE AND TMA PRESENT
AT A MINIMUM. WHEN WORKERS ARE PRESENT, FLASHING ARROW PANEL SHALL
BE OPERATED IN "CAUTION" MODE. THE PROTECTIVE VEHICLE SHALL HAVE
HIGH INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS
ACTIVATED FOR THE DURATION OF THE WORK ZONE.

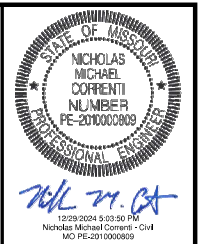
THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO WORK ZONE TO FIT ACTUAL
FIELD CONDITIONS.



NOT TO SCALE

NOT TO SCALE

TRAFFIC CONTROL
SHEET 7 OF 11



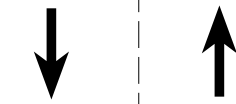
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|---------------|-----------|------------|----|
| DATE PREPARED | | 12/29/2024 | |
| ROUTE | STATE | VARIOUS MO | |
| DISTRICT | SHEET NO. | CD | 43 |
| COUNTY | | | |
| VARIOUS | | | |
| JOB NO. | | | |
| JCD0076 | | | |
| CONTRACT ID. | | | |
| PROJECT NO. | | | |
| BRIDGE NO. | | | |

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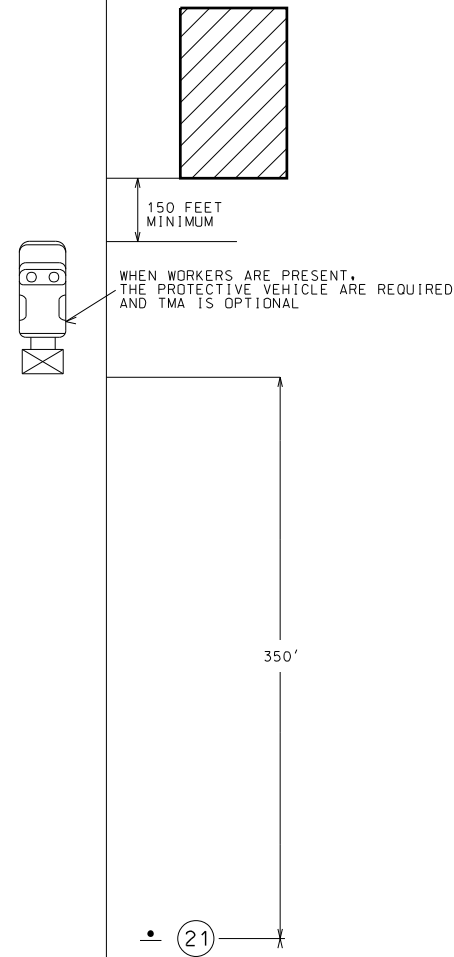
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COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

WORK BEYOND THE SHOULDER



NOT TO SCALE

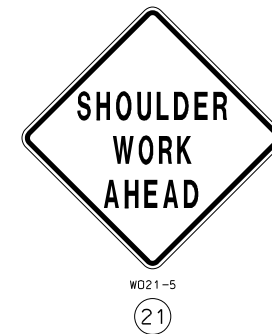


NOTES:

THE CONTRACTOR SHALL HAVE A PROTECTIVE VEHICLE AND TMA PRESENT AT A MINIMUM. WHEN WORKERS ARE PRESENT, FLASHING ARROW PANEL SHALL BE OPERATED IN "CAUTION" MODE. THE PROTECTIVE VEHICLE SHALL HAVE HIGH INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS ACTIVATED FOR THE DURATION OF THE WORK ZONE.

THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO WORK ZONE TO FIT ACTUAL FIELD CONDITIONS.

IF THE WORK IS BEYOND 15' FROM THE EDGE OF THE ROADWAY THE ADVANCE WARNING SIGNS MAY BE ELIMINATED.



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DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 44

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
Civil Engineering Design

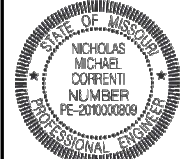
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

TRAFFIC CONTROL
SHEET 8 OF 11

NOTES:

1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK & CURB RAMP AREAS.
2. SEE JSP's FOR PEDESTRIAN TRAFFIC DEVICES.
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" IN HEIGHT WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.
4. PEDESTRIAN ACCESS ON TRAIL SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 6' OF SMOOTH, STABLE SURFACING ADJACENT TO BARRICADE FENCING FOR ACCESS TO THE TRAIL.
5. SIDEWALK/RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH. ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE TEMPORARY GRAVEL SURFACING OR RESTORING EXISTING GRASSEY AREAS AFTER REMOVAL.

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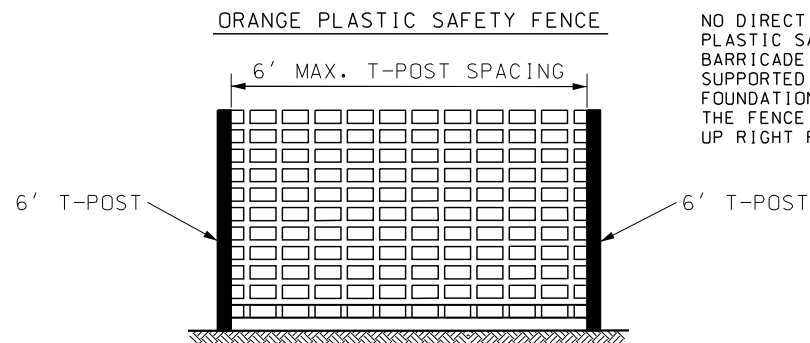
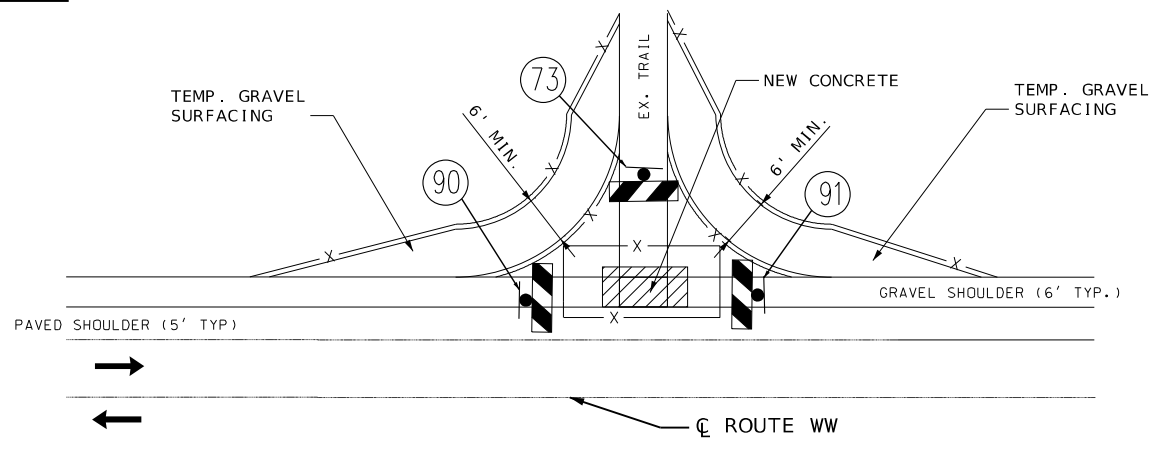


Nicholas Michael Correnti
 12/29/2024 5:05:45 PM
 Nicholas Michael Correnti - Civil
 MO PE-2010000809

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|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 45 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |

TYPICAL TRAIL ACCESS DETOUR

NOT TO SCALE



LEGEND

- WORK AREA
- SIGNS
- ORANGE SAFETY FENCE (NO DIRECT PAY)
- ADA COMPLIANT MOVEABLE BARRICADE
- CHANNELIZERS
- R9-10 24"x18" (73)
- MO4-9aR (90)
- MO4-9aL (91)

ADA COMPLIANT MOVEABLE BARRICADE

1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE SUITABLE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED TRAIL.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

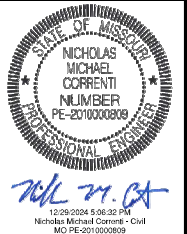
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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TRAFFIC CONTROL
 SHEET 9 OF 11

CROSSWALK CLOSURE AND PEDESTRIAN DETOURS

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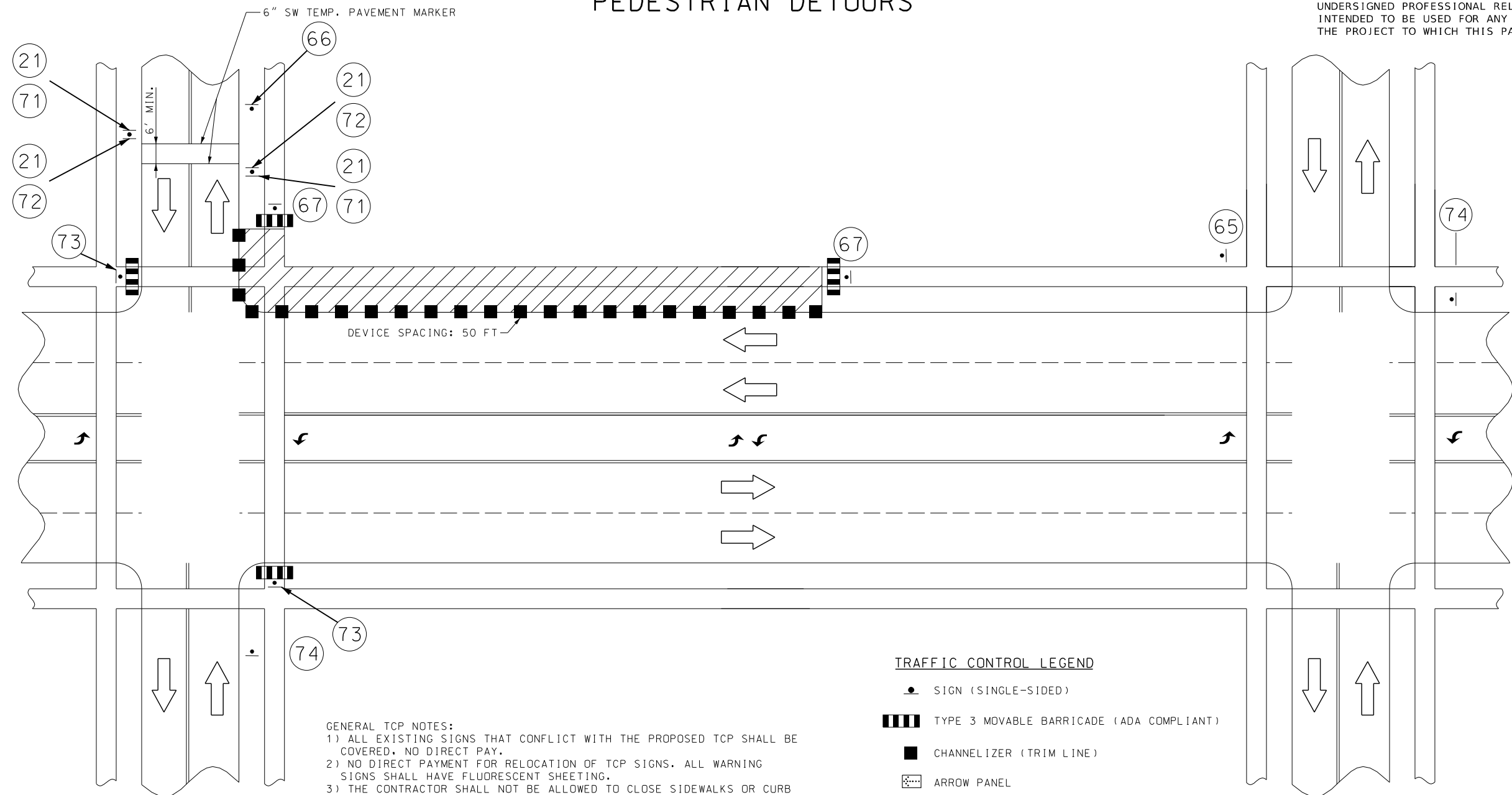
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|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 46 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| 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)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
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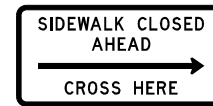
- GENERAL TCP NOTES:
 1) ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY.
 2) NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
 3) THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE SIDEWALKS OR CURB RAMPS ON BOTH SIDES OF THE ROADWAY WITHIN THE PROJECT LIMITS.

TRAFFIC CONTROL LEGEND

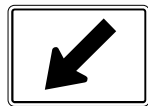
- SIGN (SINGLE-SIDED)
- TYPE 3 MOVABLE BARRICADE (ADA COMPLIANT)
- CHANNELIZER (TRIM LINE)
- ARROW PANEL
- WORK AREA
- SIGN (DOUBLE-SIDED)



R9-11L
24"X18"
65



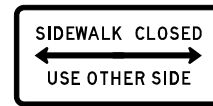
R9-11R
24"X18"
66



W16-7P-L
30"X18"
71



W16-7P-R
30"X18"
72



R9-10
24"X12"
73



W021-5
48"X48"
21



R9-9
24"X12"
67

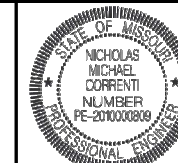


W11-2
48"X48"
74

NOT TO SCALE
 TRAFFIC CONTROL SHEET 10 OF 11

SIDEWALK CLOSURE

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Nick M. Correnti
 12/29/2024 5:07:09 PM
 Nicholas Michael Correnti - Civil
 MO PE-201000809

DATE PREPARED
 12/29/2024

ROUTE STATE
 VARIOUS MO

DISTRICT SHEET NO.
 CD 47

COUNTY
 VARIOUS

JOB NO.
 JCD0076

CONTRACT ID.

PROJECT NO.

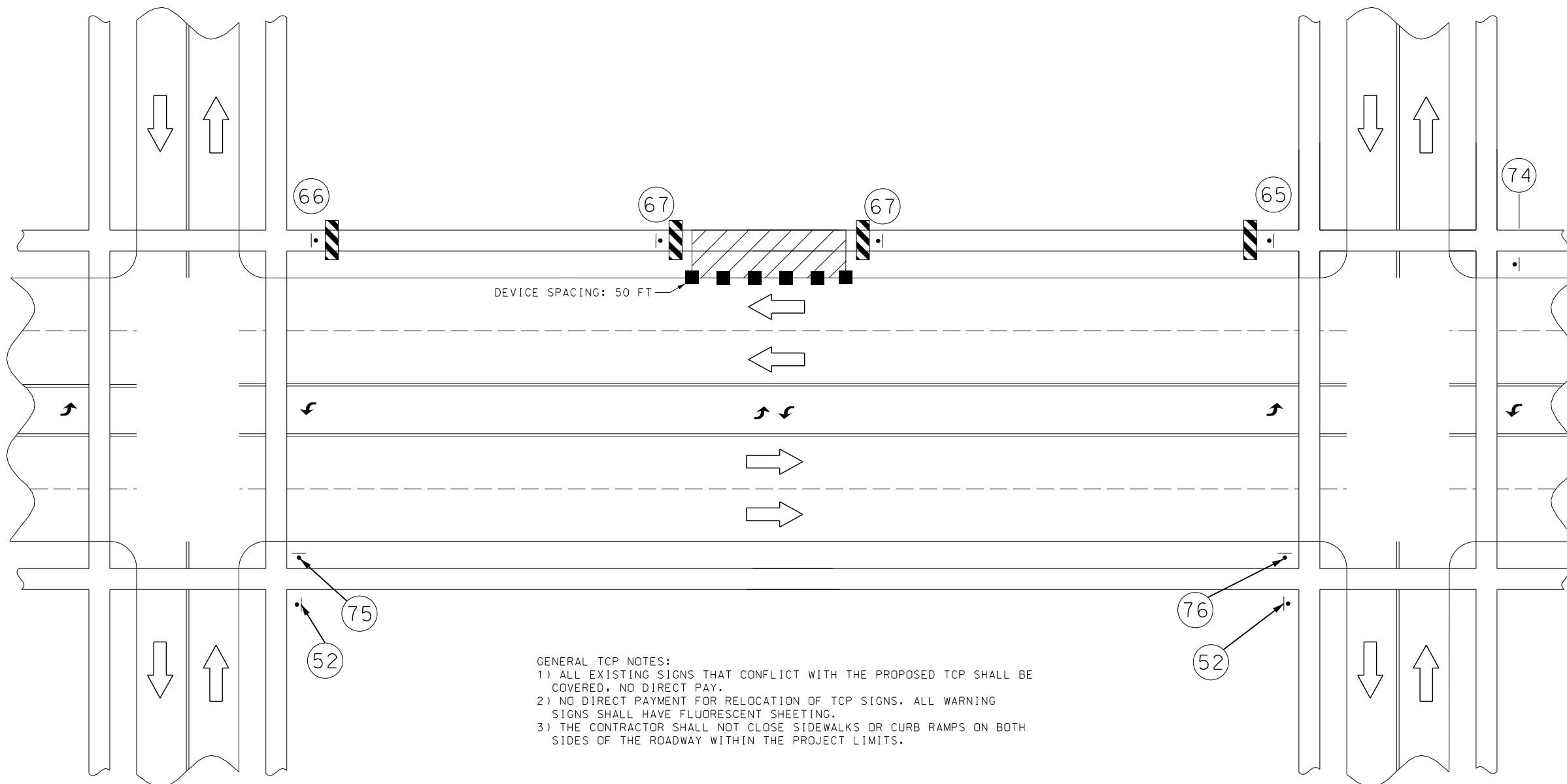
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
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EFK Moen
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 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



GENERAL TCP NOTES:
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 2) NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
 3) THE CONTRACTOR SHALL NOT CLOSE SIDEWALKS OR CURB RAMP ON BOTH SIDES OF THE ROADWAY WITHIN THE PROJECT LIMITS.

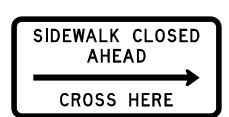
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- ▩ TYPE 3 MOVABLE BARRICADE (ADA COMPLIANT)
- CHANNELIZER (TRIM LINE)
- ▨ ARROW PANEL
- ▨ WORK AREA



R9-11L
24"x18"

(65)



R9-11R
24"x18"

(66)



R9-9
24"x12"

(67)



W11-2
48"x48"

(74)



M04-8a
24"x18"

(52)



M04-9bL
30"x24"

(75)



M04-9bR
30"x24"

(76)

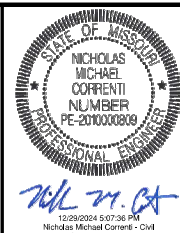
NOT TO SCALE

TRAFFIC CONTROL SHEET 11 OF 11

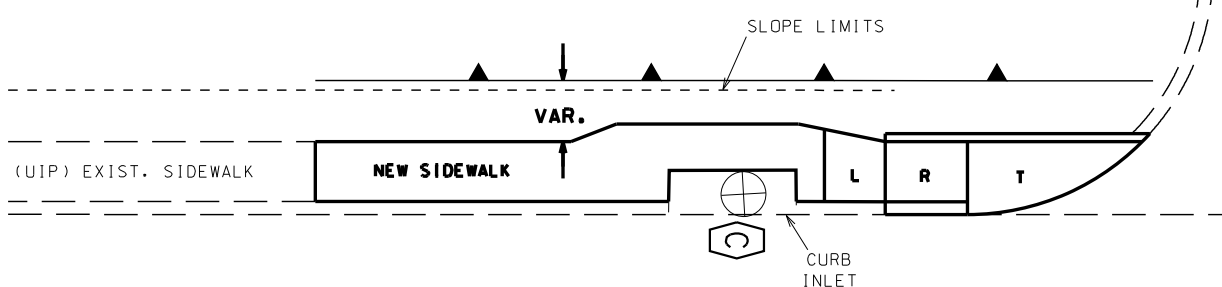
NOTES:

- (1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.
- (2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.
- (3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

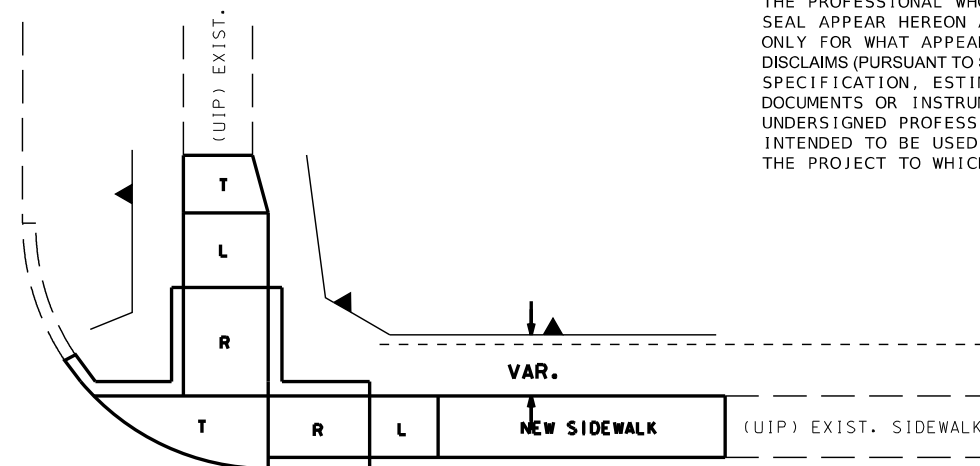
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DATE PREPARED
 12/29/2024
 ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 48
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

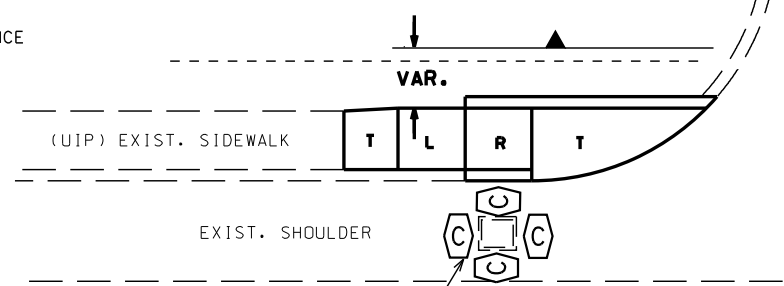


TYPICAL ENT. OR STREET



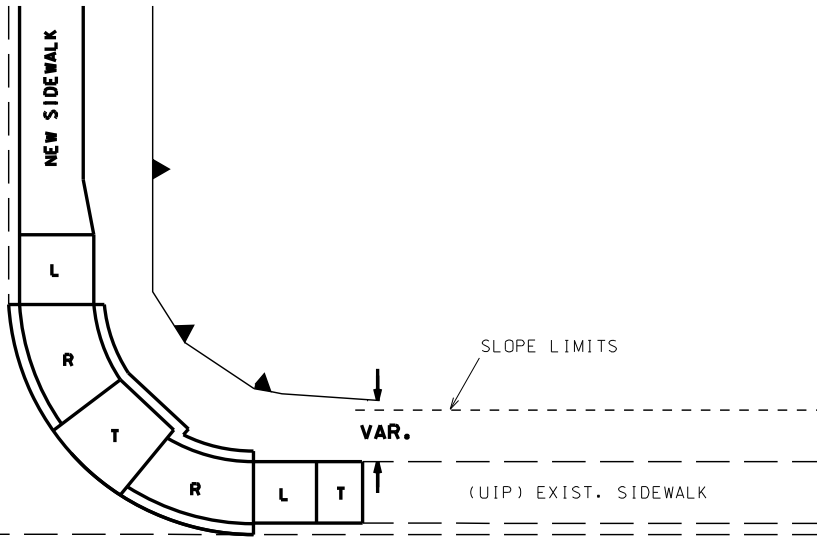
TEMPORARY EROSION CONTROL LEGEND

- CURB INLET CHECK
- ALTERNATE CHECK
- ROCK DITCH CHECK
- TEMPORARY BERM
- SILT FENCE

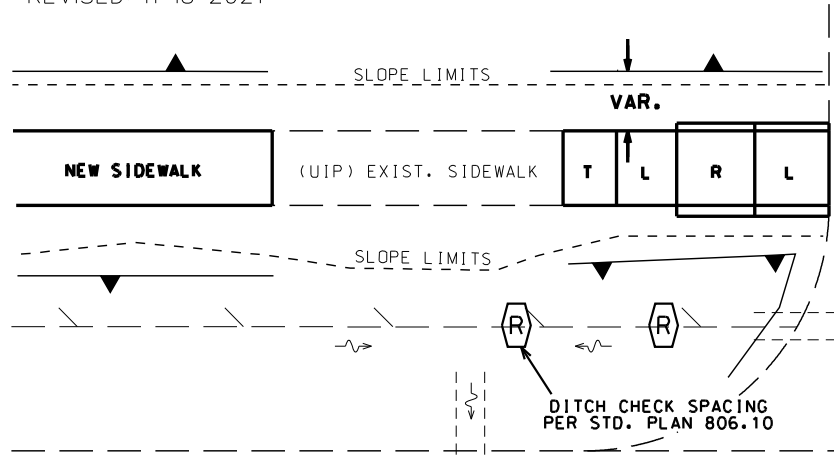


TYPICAL EROSION CONTROL AROUND DROP INLET IN SHOULDER (PAID AS 1 CURB INLET CHECK PER DROP INLET)

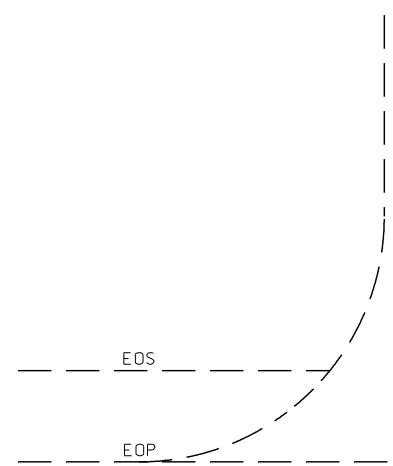
TYPICAL ENT. OR STREET



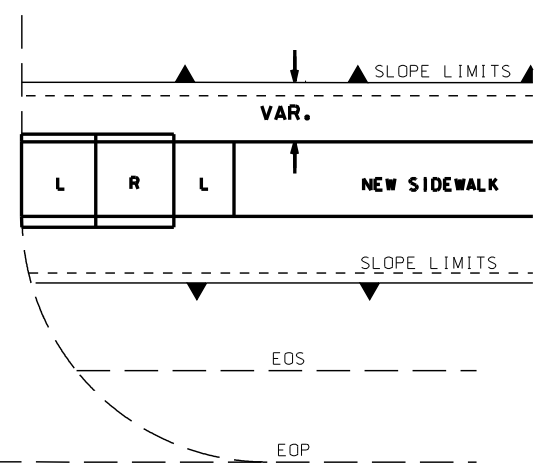
REVISED: 11-18-2021



TYPICAL ENT. OR STREET



TYPICAL ENT. OR STREET



EROSION CONTROL SHEET 1 OF 1

NOT TO SCALE

TYPICAL EROSION CONTROL APPLICATIONS FOR NEW CURB RAMP & SIDEWALK CONSTRUCTION

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

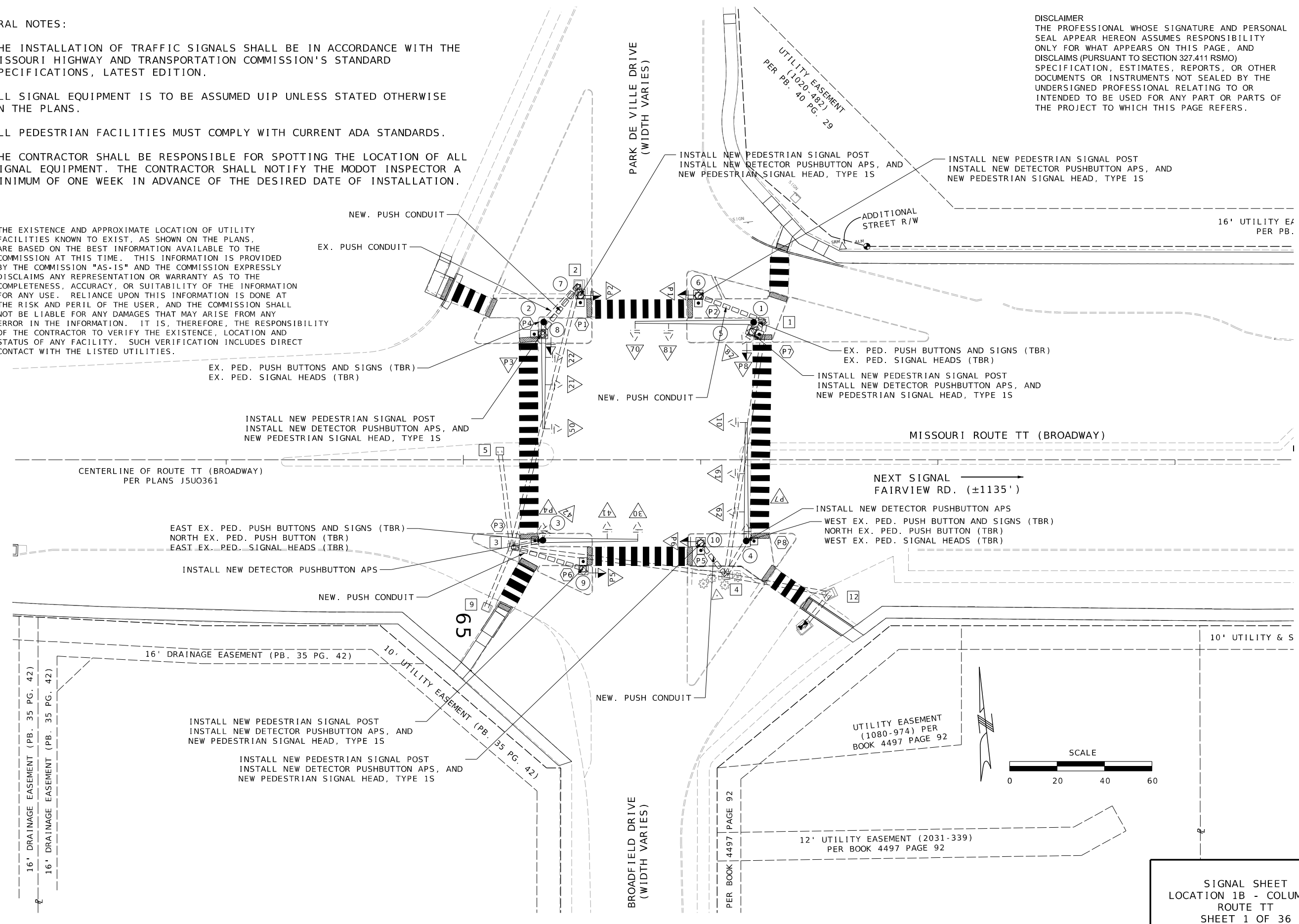
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. ALL SIGNAL EQUIPMENT IS TO BE ASSUMED UIP UNLESS STATED OTHERWISE ON THE PLANS.
3. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.

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.

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DATE PREPARED
 2/3/2025
 ROUTE
 VARIOUS
 STATE
 MO
 DISTRICT
 CD
 SHEET NO.
 49
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

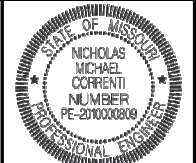
| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

SIGNAL SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 1 OF 36

EFFECTIVE: 07-01-2018



12/29/2024 5:08:57 PM
Nicholas Michael Cocchetti - Civil
MO PE-201000809

DATE PREPARED
12/29/2024
ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 50
COUNTY
VARIOUS

JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

Main table with columns: POST NUMBER, PULL BOX NUMBER, LOCATION (APPROACH, STATION, OFFSET), BASE (A, F, C), PULL BOX (PREFORMED, CONCRETE), POST (TYPE C & CL, TYPE B & BL), LUMINAIRE BRACKET ARM* (4-15 FT).

SUBTOTAL and TOTAL rows for the main table.

SIGNAL HEADS

Table for SIGNAL HEADS with columns: SPAN NUMBER, POST NUMBER, FACE NUMBER, LUMINAIRE 150W SODIUM, INDICATIONS * (12" LENS CONVENTIONAL, 12" LENS OPTICAL LIMITING), VISORS * (12" LENS, PED.), LOUVERS *, BACKPLATE*, RETROREFLECTIVE BACKPLATE*, BRACKET*, ONE-FACE SECTION, TWO-FACE SECTIONS.

SPAN WIRE POLES table with columns: POST NUMBER, WOOD CLASS IV, STEEL (A10 BASE REQUIRED).

SUBTOTAL OPTICALLY LIMITED, SUBTOTAL CONVENTIONAL, SUBTOTAL COMBINATION OL & CONV, TOTAL OPTICALLY LIMITED, TOTAL CONVENTIONAL, TOTAL COMBINATION OL & CONV.

SPAN WIRE CABLE SPANS table with columns: SPAN NUMBER, FROM POST, TO POST, SINGLE MESSENGER ASSEMBLY (LIN. FT.), MESSENGER ASSEMBLY WITH TETHER (LIN. FT.).

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED. * ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE. ** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES. *** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE. SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

DISCLAIMER
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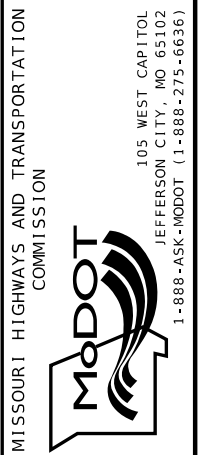
ROUTE TT (W. BROADWAY)
AT PARK DE VILLE DR. / BROADFIELD DR.
INTERSECTION

LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

D-37A

SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 2 OF 36

DESCRIPTION



EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
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St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



Nick M. Correnti

DATE PREPARED
12/29/2024
ROUTE STATE
VARIOUS MO
DISTRICT SHEET NO.
CD 51
COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

CONDUIT (WITH #14 TRACER WIRE)

CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | LOOP DET. | TRENCH | | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS | FROM | TO | CENTER TO CENTER DISTANCE | POWER | CONTROL | | | | CLOSED LOOP INTERCONNECT | LUMINAIRE | | DETECTOR | | FIBER | | REMARKS | | | | | | |
|-----------|----|---------------------------|-----------|--------|----|----|----|--------|----|----|--------|----|----|--------------|----|---------|-----------|-----|---------------------------|-------|---------|--------|--------|--------|--------------------------|------------|---------|----------------|----------------|----------------------|-------------|---------|------------|--|--|--|--|--|
| | | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | 2c #16 | 5c #16 | 7c #16 | 3c #16 | | 3 PAIR #16 | CONTROL | POLE & BRACKET | 1c #14 IN DUCT | 2c #14 LEAD-IN CABLE | SINGLE-MODE | | MULTI-MODE | | | | | |
| 1 | 5 | 7 | | | | | | 9 | | | | | | | | | 5 | 178 | | | | 213 | | | | | | | | | | | | | | | | |
| 1 | 6 | 30 | | | | | | 32 | | | | | | | | | 5 | 178 | | | | 214 | | | | | | | | | | | | | | | | |
| 2 | 7 | 5 | | | | | | 7 | | | | | | | | | 6 | 201 | | | | 236 | | | | | | | | | | | | | | | | |
| 2 | 8 | 26 | | | | | | 28 | | | | | | | | | 6 | 201 | | | | 237 | | | | | | | | | | | | | | | | |
| 3 | 9 | 31 | | | | | | 33 | | | | | | | | | 7 | 273 | | | | 314 | | | | | | | | | | | | | | | | |
| 4 | 10 | 17 | | | | | | 19 | | | | | | | | | 7 | 273 | | | | 315 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 8 | 294 | | | | 335 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 8 | 294 | | | | 336 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 9 | 185 | | | | 220 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 9 | 185 | | | | 221 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 10 | 80 | | | | 109 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 10 | 80 | | | | 110 | | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | | | | | 128 | | | | | | | | | SUBTOTALS | | | | | 1427 | 1433 | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | 128 | | | | | | | | | TOTALS | | | | | 1430 | 1430 | | | | | | | | | | | | | | | |

DESCRIPTION
DATE

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INTERSECTION ROUTE TT (W. BROADWAY) AT PARK DE VILLE DR. / BROADFIELD DR.

D-37B

SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 3 OF 36

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

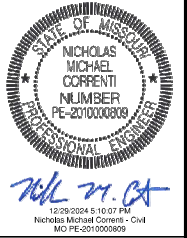


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POWER SUPPLY table with columns: LOCATION (APPROACH, STATION, OFFSET), POWER SUPPLY ASSEMBLY (DRAWING 902.15), CIRCUIT BREAKER TRIP RATING*, LIGHTING CONTROL *, SERVICE POLE (CONTRACT FURNISH, UTILITY COMPANY).

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT table with columns: LOCATION, SYSTEM MASTER (CLOSED LOOP), ACTUATED, ON-OFF* SWITCH, COORDINATION INTERFACE *, TIME CLOCK, NEMA CABINET TYPE *, 170 CABINET TYPE *, 170 SOFTWARE *.

NEMA DETECTOR ASSIGNMENT CARD POSITION table with columns 1-8 and rows for CHANNEL 1 and 2.

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

DETECTOR SCHEDULE table with columns: DETECTOR NUMBER, APPROACH, TYPE (PUSH BUTTON (APS), INDUCTION LOOP (2), VIDEO), TOTAL 8.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE. *** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

- (1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWARE INTERCONNECT. (2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART. (3) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM FOR DETECTOR PUSH BUTTON (APS).

DESCRIPTION and DATE columns for project tracking.

NEMA LOAD SWITCH ASSIGNMENTS table with columns 1-12.

170 OUTPUT FILE ASSIGNMENTS table with columns FR1-FR4 and MONITOR.

SIGNAL SIGNS table with columns: QUANTITY, MUTCD SIGN NUMBER, SIZE, AREA, SIGN TOTAL AREA, SIGNAL SIGN MOUNTING HARDWARE.

170 INPUT FILE ASSIGNMENTS table with columns: CHANNEL, 1-14, and rows for "I" and "J" approaches.

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

170 AUXILIARY OUTPUT FILE table with columns FR5-FR6.

ROUTE TT (W. BROADWAY) AT PARK DE VILLE DR. / BROADFIELD DR.

INTERSECTION

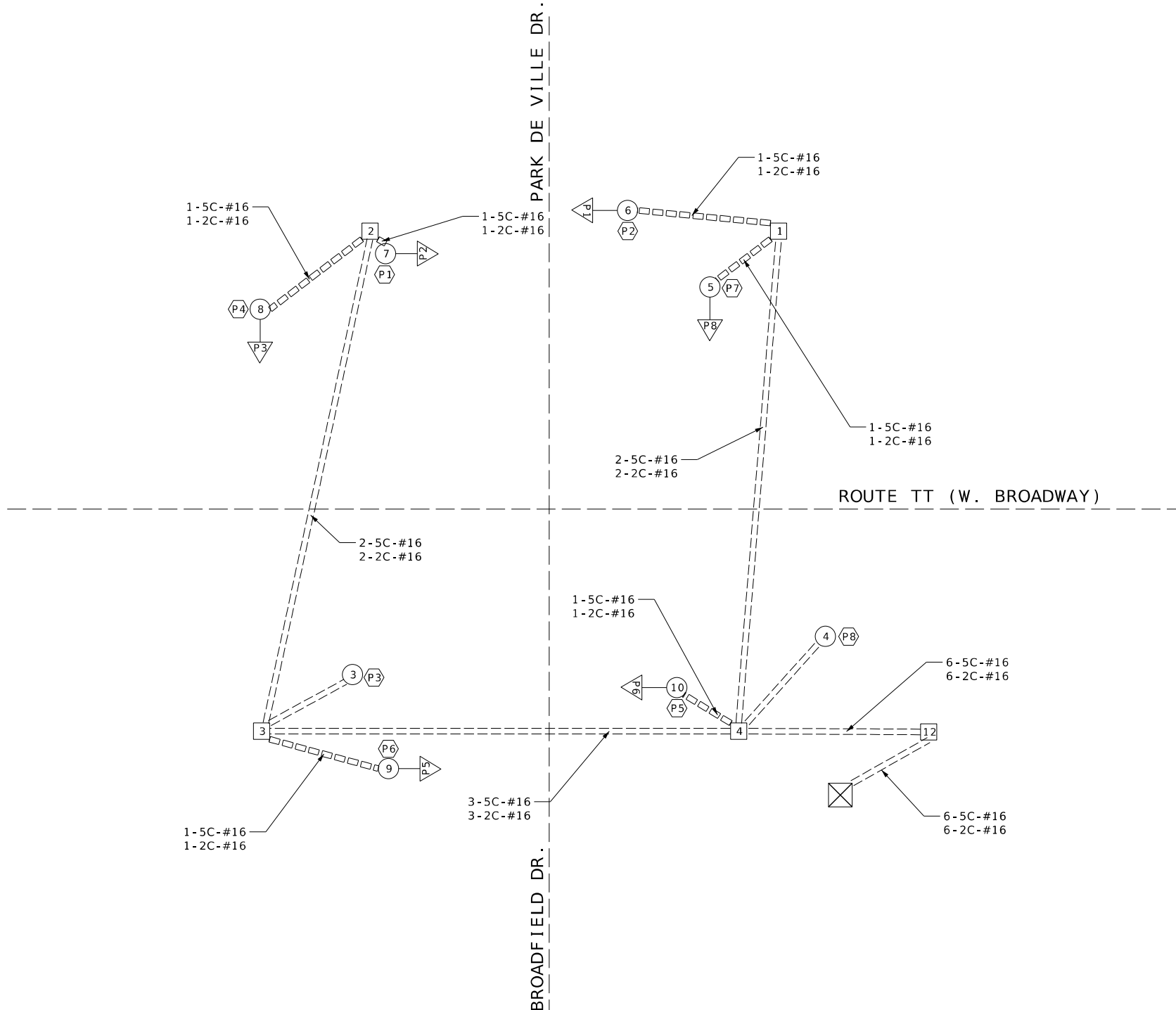
D-37C

SIGNAL SHEET LOCATION 1B - COLUMBIA ROUTE TT SHEET 4 OF 36



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WIRING DIAGRAM



NOT TO SCALE

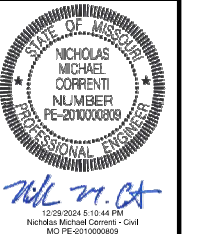
NOTES: ALL TRAFFIC SIGNAL WIRING IS TO BE USED IN PLACE.

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EFFECTIVE: 12-01-2017

LEGEND

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



DATE PREPARED
12/29/2024

| | |
|--------------|-----------|
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 53 |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EFK Moen
Civil Engineering Design

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ROUTE TT (W. BROADWAY)
AT PARK DE VILLE DR. / BROADFIELD DR.

INTERSECTION

D-37D

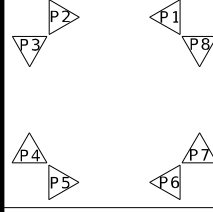
SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 5 OF 36

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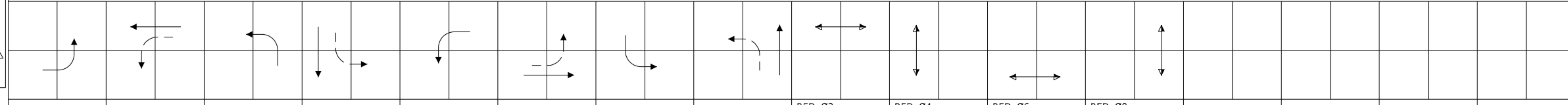


EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



PHASE 1 PHASE 2 PHASE 3 PHASE 4 PHASE 5 PHASE 6 PHASE 7 PHASE 8 PED 02 OVERLAP PED 04 OVERLAP PED 06 OVERLAP PED 08 OVERLAP

FACE NUMBERS

SIGNAL INDICATIONS
 R
 Y
 FYA
 G

| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---------|--|---------|--|---------|--|---------|--|
| | | | | | | | | | | P1 P2 | | P3 P4 | | P5 P6 | | P7 P8 | |
| | | | | | | | | | | DW DW | | DW DW | | DW DW | | DW DW | |
| | | | | | | | | | | FDW FDW | | FDW FDW | | FDW FDW | | FDW FDW | |
| | | | | | | | | | | W W | | W W | | W W | | W W | |

FACE NUMBERS

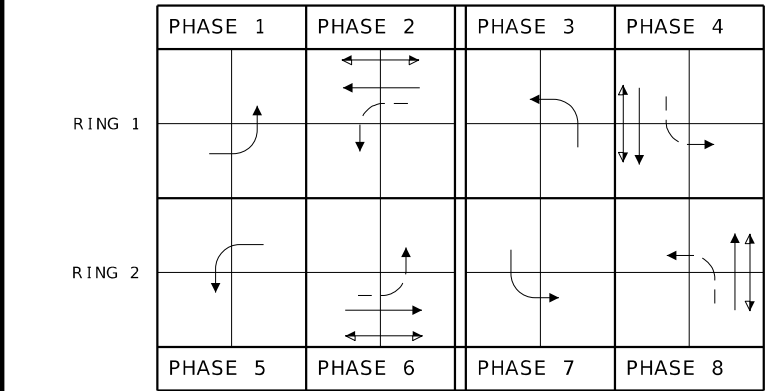
SIGNAL INDICATIONS
 R
 Y
 FYA
 G

DETECTOR ASSIGNMENTS

| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

DETECTOR ASSIGNMENTS

| | | | | | | | | | | | | | | |
|-----------------------------------|----|----|--|----|----|--|--|----|----|--|--|----|----|--|
| DETECTOR ASSIGNMENTS (PEDS. ONLY) | P1 | P2 | | P3 | P4 | | | P5 | P6 | | | P7 | P8 | |
| OVERLAP PARENT PHASES | | | | | | | | | | | | | | |



NOTE: PHASING SHOWN FOR INFORMATION ONLY; EXISTING TRAFFIC SIGNAL PHASING TO BE USED.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ➡ ACTUATED VEHICULAR MOVEMENT
- ➡ PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ NON-ACTUATED VEHICULAR MOVEMENT
- ▷ PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ➡ ACTUATED PEDESTRIAN MOVEMENT
- ▷ NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW - FLASHING DON'T WALK
- W - WALK
- DW - DON'T WALK
- R/W - RIGHT OF WAY INTERVAL
- YRT - YELLOW RIGHT ARROW
- RT - GREEN RIGHT ARROW
- LY - YL - YELLOW LEFT ARROW
- L - GREEN LEFT ARROW
- S - GREEN STRAIGHT AHEAD ARROW
- G - CIRCULAR GREEN
- Y - CIRCULAR YELLOW
- R - CIRCULAR RED
- RL - RED LEFT ARROW
- Ø - TRAFFIC PHASE
- AO - ALL OTHERS
- FR - FLASHING RED
- FY - FLASHING CIRCULAR YELLOW
- FYL - FLASHING YELLOW LEFT ARROW

FLASHING OPERATION

| | |
|-----------------|-------|
| ALL APPROACHES | FR |
| | FY |
| CONTROLLER TYPE | (UIP) |

TRAFFIC SIGNAL CONTROL OPERATION

| |
|-------------------------------------------------------|
| INTERSECTION OF PARK DE VILLE DR. / BROADFIELD DR. |
| WITH ROUTE TT (W. BROADWAY) |

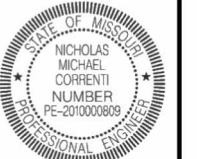
D-38A

SIGNAL SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 6 OF 36

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



NICHOUS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
2/3/2025

ROUTE STATE
VARIOUS MO
DISTRICT SHEET NO.
CD 55

COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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

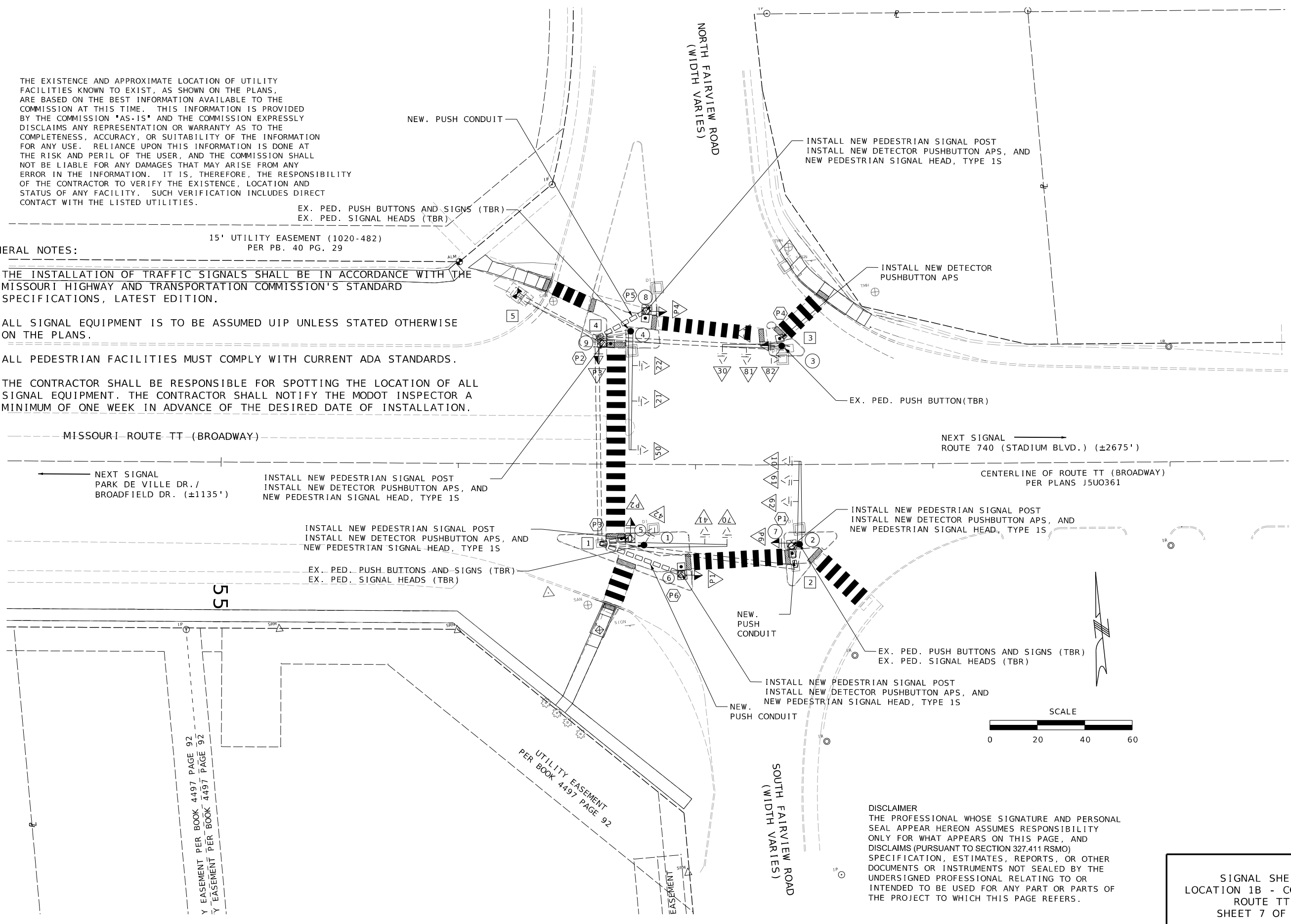
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Missouri Certificate of Authority: 001578

SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 7 OF 36

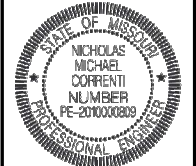
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY 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.

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. ALL SIGNAL EQUIPMENT IS TO BE ASSUMED UIP UNLESS STATED OTHERWISE ON THE PLANS.
3. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.



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Nicholas Michael Correnti - Civil
MO PE-2010000809

DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 56

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

Main table with columns: POST NUMBER, PULL BOX NUMBER, LOCATION (APPROACH, STATION, OFFSET), BASE (A, F, C), PULL BOX (PREFORMED, CONCRETE), POST (TYPE C & CL, TYPE B & BL), and LUMINAIRE BRACKET ARM*. Includes a SUBTOTAL and TOTAL row at the bottom.

SIGNAL HEADS table with columns: SPAN NUMBER, POST NUMBER, FACE NUMBER, LUMINAIRE 150W SODIUM, INDICATIONS * (12" LENS CONVENTIONAL, 12" LENS OPTICAL LIMITING), VISORS * (12" LENS, PED.), LOUVERS *, BACKPLATE*, RETROREFLECTIVE BACKPLATE*, BRACKET*, ONE-FACE SECTION, and TWO-FACE SECTIONS.

SPAN WIRE POLES table with columns: POST NUMBER, WOOD CLASS IV, STEEL (A10 BASE REQUIRED).

Summary table for signal heads: SUBTOTAL OPTICALLY LIMITED, SUBTOTAL CONVENTIONAL, SUBTOTAL COMBINATION OL & CONV, TOTAL OPTICALLY LIMITED, TOTAL CONVENTIONAL, TOTAL COMBINATION OL & CONV.

SPAN WIRE CABLE SPANS table with columns: SPAN NUMBER, FROM POST, TO POST, SINGLE MESSENGER ASSEMBLY (LIN. FT.), MESSENGER ASSEMBLY WITH TETHER (LIN. FT.).

REMARKS: ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED. * ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE. ** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES. *** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE. SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

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ROUTE TT (W. BROADWAY)
AT FAIRVIEW RD.
INTERSECTION

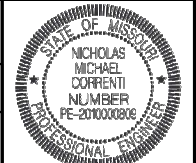
- LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 8 OF 36

D-37A

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Nick M. Correnti
12/29/2024 5:15:13 PM
Nicholas Michael Correnti - Civil
MO PE-2010000806

CONDUIT (WITH #14 TRACER WIRE)

CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | TRENCH | | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS | FROM | TO | CENTER TO CENTER DISTANCE | POWER | CONTROL | | | | CLOSED LOOP INTERCONNECT | LUMINAIRE | | DETECTOR | | FIBER | | REMARKS |
|-----------|----|---------------------------|--------|----|----|----|--------|----|----|--------|----|----|--------------|----|-----------|------|-----|---------------------------|-------|---------|--------|--------|--------|--------------------------|------------|---------|----------------|----------------|----------------------|-------------|---------|
| | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | 2c #16 | 5c #16 | 7c #16 | 3c #16 | | 3 PAIR #16 | CONTROL | POLE & BRACKET | 1c #14 IN DUCT | 2c #14 LEAD-IN CABLE | SINGLE-MODE | |
| 1 | 5 | 12 | | | | | 14 | | | | | | | | | 5 | 137 | | | | 172 | | | | | | | | | | |
| 1 | 6 | 37 | | | | | 39 | | | | | | | | | 5 | 137 | | | | 173 | | | | | | | | | | |
| 2 | 7 | 9 | | | | | 11 | | | | | | | | | 6 | 162 | | | | 197 | | | | | | | | | | |
| 4 | 8 | 24 | | | | | 26 | | | | | | | | | 6 | 162 | | | | 198 | | | | | | | | | | |
| 4 | 9 | 4 | | | | | 6 | | | | | | | | | 7 | 217 | | | | 258 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 7 | 217 | | | | 259 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 8 | 62 | | | | 91 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 8 | 62 | | | | 92 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 9 | 42 | | | | 71 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 9 | 42 | | | | 72 | | | | | | | | | | |
| SUBTOTALS | | | | | | | 96 | | | | | | | | SUBTOTALS | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | 96 | | | | | | | | TOTALS | | | | | | | | | | | | | | | | |

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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13523 Barrett Parkway Dr
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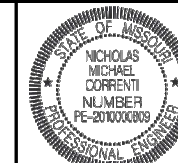
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SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 9 OF 36

INTERSECTION ROUTE TT (W. BROADWAY) AT FAIRVIEW RD. D-37B

| POWER SUPPLY | | | | | | | | | | | | |
|---------------|---------|--------|-----------------------|---------|------------------------------|---------------------|-------------------------|---------|--------------------------------------|--------------|------------------|-----------------|
| LOCATION | | | POWER SUPPLY ASSEMBLY | | CIRCUIT BREAKER TRIP RATING* | | | | LIGHTING CONTROL * (ON POWER SUPPLY) | | SERVICE POLE | |
| APPROACH | STATION | OFFSET | DRAWING 902.15 | DRAWING | CONTROLLER | | POWER SUPPLY DISCONNECT | | 120 VOLT CONTROL CABINET | | CONTRACT FURNISH | UTILITY COMPANY |
| | | | | | AUXILIARY BREAKER | CONT & SIGNAL LAMPS | MAIN BREAKER | SIGNALS | LIGHTING | MAIN BREAKER | | |
| NW QUAD (UIP) | | | Type | | 15 Amps | Amps | Amps | Amps | | | Cl. | Ft. |
| | | | Type | | 15 Amps | Amps | Amps | Amps | | | Cl. | Ft. |

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Nicholas Michael Correnti - Civil
MO PE-201000009

EFFECTIVE: 04-01-2018

| CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------|---------|--------|-----------------------------|-----|----------|-----|----------------|----|--------------------------|--------------|-----------|-------------|-----|--------------|---|---------------------|--------|-----|--------------------|--------|----------------|--------|
| LOCATION | | | SYSTEM MASTER (CLOSED LOOP) | | ACTUATED | | ON-OFF* SWITCH | | COORDINATION INTERFACE * | | | | | TIME * CLOCK | | NEMA CABINET TYPE * | | | 170 CABINET TYPE * | | 170 SOFTWARE * | |
| APPROACH | STATION | OFFSET | NEMA | 170 | NEMA | 170 | TYPE | | 12C/7C | HARDWARE (1) | TIME BASE | CLOSED LOOP | | FIBER | E | EV | DOUBLE | 332 | 336S | BITRAN | WAPITI | |
| | | | | | | | I | II | | | | NEMA | 170 | | | | | | | | | MASTER |
| NW QUAD (UIP) | | | | | | | | | | | | | | | | | | | | | | |

| NEMA DETECTOR ASSIGNMENT | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|--|
| CARD POSITION | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| CHANNEL | 1 | | | | | | | | |
| | 2 | | | | | | | | |

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = (2)

| DETECTOR SCHEDULE | | | | | | |
|-------------------|----------|-------------------|----------|----------------|-------------|-------|
| DETECTOR NUMBER | APPROACH | PUSH BUTTON (APS) | TYPE | | | VIDEO |
| | | | STANDARD | DELAY/EXTEND * | CALL UNIT * | |
| P1 | SE QUAD | 1 | | | | |
| P2 | NW QUAD | 1 | | | | |
| P3 | SW QUAD | 1 | | | | |
| P4 | NW QUAD | 1 | | | | |
| P5 | NE QUAD | 1 | | | | |
| P6 | SW QUAD | 1 | | | | |
| TOTAL | | 6 | | | | |

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

- (1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWARE INTERCONNECT.
- (2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.
- (3) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM FOR DETECTOR PUSH BUTTON (APS).

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

| NEMA LOAD SWITCH ASSIGNMENTS | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | | | | | | | | |

| 170 OUTPUT FILE ASSIGNMENTS | | | | | | | |
|-----------------------------|--|--|--|--|--|--|--|
| FR1 | | | | | | | |
| FR2 | | | | | | | |
| FR3 | | | | | | | |
| FR4 | | | | | | | |

| 170 AUXILIARY OUTPUT FILE | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|
| FR5 | | | | | | | |
| FR6 | | | | | | | |

| SIGNAL SIGNS | | | | | |
|--------------|-------------------|-----------|---------|-------------------|-------------------------------|
| QUANTITY | MUTCD SIGN NUMBER | SIZE | AREA | SIGN TOTAL AREA | SIGNAL SIGN MOUNTING HARDWARE |
| | | | | ITEM NO. 90208.33 | ITEM NO. 90208.34 |
| | | INCHES | SQ. FT. | SQ. FT. | EA. |
| | R10-10L | 24 X 30 | 5.0 | | |
| | R10-10R | 24 X 30 | 5.0 | | |
| | R3-5L | 30 X 36 | 7.5 | | |
| | R3-5R | 30 X 36 | 7.5 | | |
| | R3-5A | 30 X 36 | 7.5 | | |
| | R3-6L | 30 X 36 | 7.5 | | |
| | R3-6R | 30 X 36 | 7.5 | | |
| | R3-2 | 24 X 24 | 4.0 | | |
| | R3-1 | 24 X 24 | 4.0 | | |
| | R3-3 | 24 X 24 | 4.0 | | |
| | D3-1 *** | VAR. X 18 | | | |
| | D3-1B *** | VAR. X 18 | | | |
| | R10-3E | 9 X 15 | 0.9 | | |
| | R10-11A | 24 X 30 | 5.0 | | |
| | R10-13 | 36 X 24 | 6.0 | | |
| | R10-27A | 30 X 36 | 7.5 | | |
| | SUBTOTAL | | | | |
| | TOTAL | | | | |

| 170 INPUT FILE ASSIGNMENTS | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| CHANNEL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| "I" | U | | | | | | | | | | | | | |
| "I" | L | | | | | | | | | | | | | |
| "J" | U | | | | | | | | | | | | | |
| "J" | L | | | | | | | | | | | | | |

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = (2)

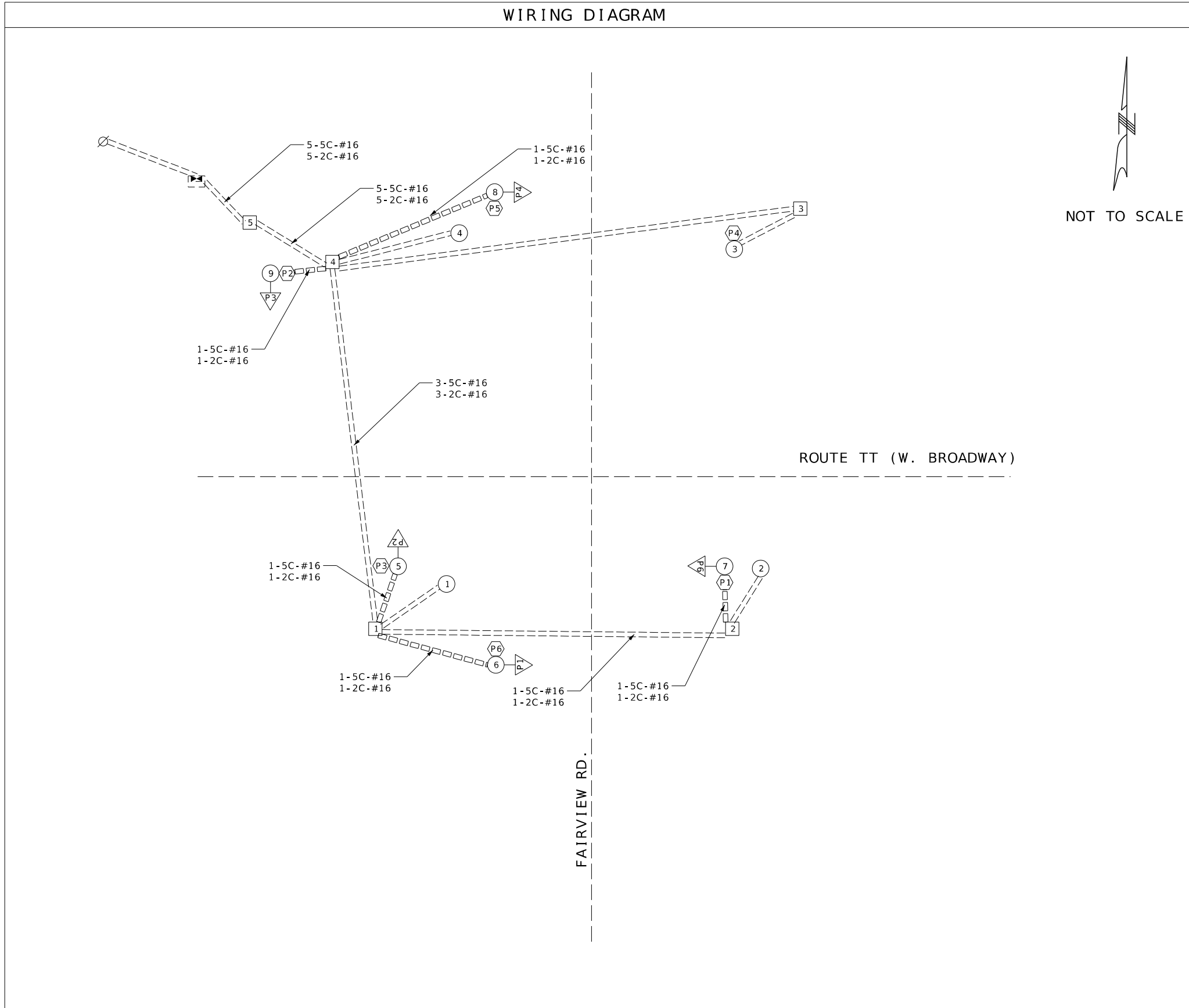
ROUTE TT (W. BROADWAY)
AT FAIRVIEW RD.

INTERSECTION

D-37C

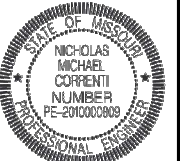
SIGNAL SHEET
LOCATION 1B - COLUMBIA
ROUTE TT
SHEET 10 OF 36

WIRING DIAGRAM



NOT TO SCALE

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 Nicholas Michael Correnti - Civil
 MO PE-2010000909

EFFECTIVE: 12-01-2017

LEGEND

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

| | |
|---------------|-----------|
| DATE PREPARED | |
| 12/29/2024 | |
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 59 |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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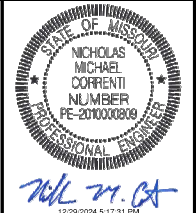
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

ROUTE TT (W. BROADWAY)
 AT FAIRVIEW RD.
 INTERSECTION

SIGNAL SHEET
 LOCATION 1B - COLUMBIA
 ROUTE TT
 SHEET 11 OF 36

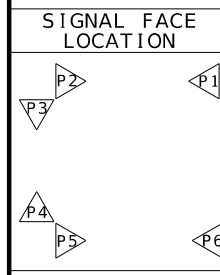
D-37D

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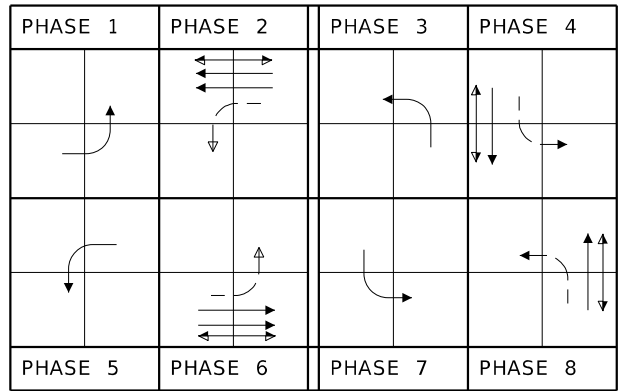


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

| PHASE 1 | | PHASE 2 | | PHASE 3 | | PHASE 4 | | PHASE 5 | | PHASE 6 | | PHASE 7 | | PHASE 8 | | PED 02 OVERLAP | | PED 04 OVERLAP | | PED 06 OVERLAP | | PED 08 OVERLAP | | NOT USED | |
|-----------------------------------|--|---------|--|---------|--|---------|--|---------|--|---------|--|-----------------------------------|--|---------|--|----------------|--|----------------|--|----------------|--|----------------|--|----------|--|
| [Traffic Phasing Diagrams] | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACE NUMBERS | | | | | | | | | | | | FACE NUMBERS | | | | | | | | | | | | | |
| SIGNAL INDICATIONS | | | | | | | | | | | | SIGNAL INDICATIONS | | | | | | | | | | | | | |
| DETECTOR ASSIGNMENTS | | | | | | | | | | | | DETECTOR ASSIGNMENTS | | | | | | | | | | | | | |
| DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | | | | | | | DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | | | | | | | | |
| OVERLAP PARENT PHASES | | | | | | | | | | | | OVERLAP PARENT PHASES | | | | | | | | | | | | | |

| | |
|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 60 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DESCRIPTION | DATE |
|-------------|------|
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RING STRUCTURE

NOTE: PHASING SHOWN FOR INFORMATION ONLY; EXISTING TRAFFIC SIGNAL PHASING TO BE USED.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

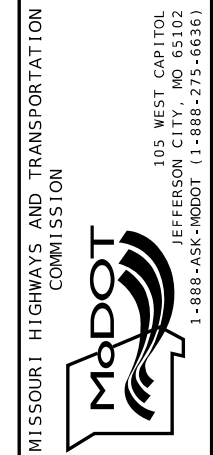
| LEGEND | |
|--------|------------------------------------------------------|
| → | ACTUATED VEHICULAR MOVEMENT |
| → | PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT |
| ▷ | NON-ACTUATED VEHICULAR MOVEMENT |
| ▷ | PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT |
| → | ACTUATED PEDESTRIAN MOVEMENT |
| ▷ | NON-ACTUATED PEDESTRIAN MOVEMENT |
| — | VEHICLE STOPPED |
| FDW | FLASHING DON'T WALK |
| W | WALK |
| DW | DON'T WALK |
| R/W | RIGHT OF WAY INTERVAL |
| YRT | YELLOW RIGHT ARROW |
| RT | GREEN RIGHT ARROW |
| YL | YELLOW LEFT ARROW |
| L | GREEN LEFT ARROW |
| S | GREEN STRAIGHT AHEAD ARROW |
| G | CIRCULAR GREEN |
| Y | CIRCULAR YELLOW |
| R | CIRCULAR RED |
| RL | RED LEFT ARROW |
| Ø | TRAFFIC PHASE |
| AO | ALL OTHERS |
| FR | FLASHING RED |
| FY | FLASHING CIRCULAR YELLOW |
| FYL | FLASHING YELLOW LEFT ARROW |

| FLASHING OPERATION | |
|--------------------|-------|
| ALL APPROACHES | FR |
| | FY |
| CONTROLLER TYPE | (UIP) |

| TRAFFIC SIGNAL CONTROL OPERATION | |
|----------------------------------------|--|
| INTERSECTION OF ROUTE TT (W. BROADWAY) | |
| WITH FAIRVIEW RD. | |

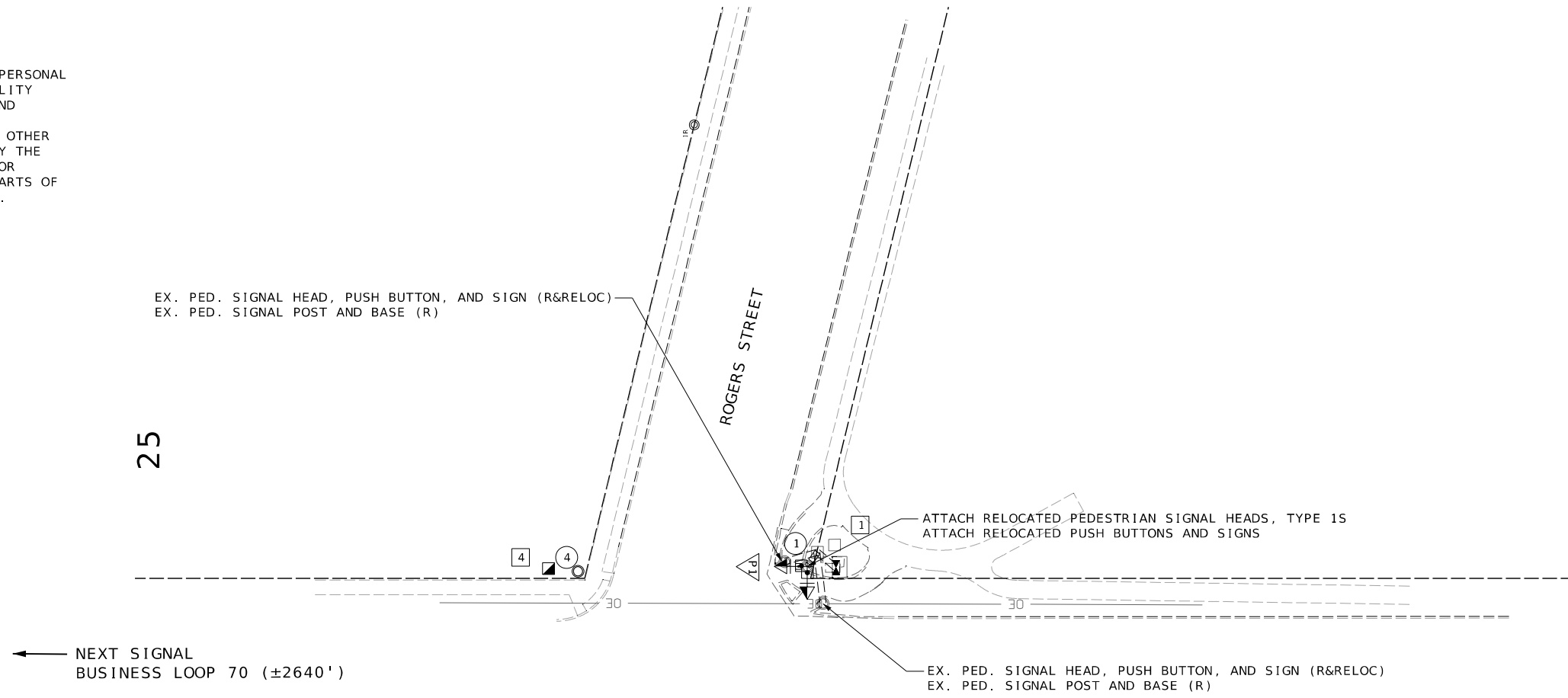
D-38A

| | |
|--------------|------------------------|
| SIGNAL SHEET | LOCATION 1B - COLUMBIA |
| | ROUTE TT |
| | SHEET 12 OF 36 |



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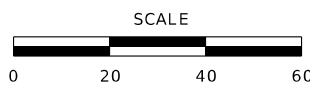
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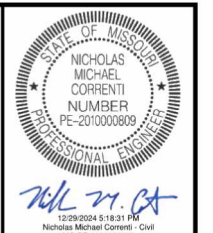
GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. ALL SIGNAL EQUIPMENT IS TO BE ASSUMED UIP UNLESS STATED OTHERWISE ON THE PLANS.
3. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.

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.



SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 13 OF 36



DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 61

COUNTY
VARIOUS

JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

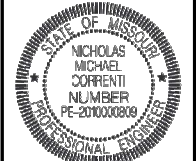
| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



12/29/2024 5:19:12 PM
Nicholas Michael Correnti - Civil
MO PE-201000809

DATE PREPARED
12/29/2024
ROUTE STATE
VARIOUS MO
DISTRICT SHEET NO.
CD 62
COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

Table with 2 columns: DATE, DESCRIPTION

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

Main project data table with columns: LOCATION, BASE (A, F, C), PULL BOX (PREFORMED, CONCRETE), POST (TYPE C & CL, TYPE B & BL), LUMINAIRE BRACKET ARM*. Includes SUBTOTAL and TOTAL rows.

SIGNAL HEADS table with columns: SPAN NUMBER, POST NUMBER, FACE NUMBER, LUMINAIRE, INDICATIONS, VISORS, LOUVERS, BACKPLATE, RETROREFLECTIVE BACKPLATE, BRACKET, ONE-FACE SECTION, TWO-FACE SECTIONS.

SPAN WIRE POLES table with columns: POST NUMBER, WOOD CLASS IV, STEEL (A10 BASE REQUIRED).

Summary table for signal heads: SUBTOTAL OPTICALLY LIMITED, SUBTOTAL CONVENTIONAL (RELOCATED), SUBTOTAL COMBINATION OL & CONV, TOTAL OPTICALLY LIMITED, TOTAL CONVENTIONAL (RELOCATED), TOTAL COMBINATION OL & CONV.

SPAN WIRE CABLE SPANS table with columns: SPAN NUMBER, FROM POST, TO POST, SINGLE MESSENGER ASSEMBLY (LIN. FT.), MESSENGER ASSEMBLY WITH TETHER (LIN. FT.).

REMARKS
ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.
SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

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ROUTE 163 (PROVIDENCE RD.)
AT ROGERS ST. / WORLEY ST.
INTERSECTION

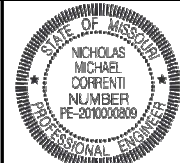
LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

D-37A

SIGNAL SHEET
LOCATION 1C - COLUMBIA
ROUTE 163
SHEET 14 OF 36

| POWER SUPPLY | | | | | | | | | | | | |
|---------------|---------|--------|-----------------------|---------|------------------------------|----------------------|-------------------------|---------|--------------------------------------|--------------------------|------------------|-----------------|
| LOCATION | | | POWER SUPPLY ASSEMBLY | | CIRCUIT BREAKER TRIP RATING* | | | | LIGHTING CONTROL * (ON POWER SUPPLY) | | SERVICE POLE | |
| APPROACH | STATION | OFFSET | DRAWING | DRAWING | CONTROLLER | | POWER SUPPLY DISCONNECT | | | | CONTRACT FURNISH | UTILITY COMPANY |
| SE QUAD (UIP) | | | Type | | AUXILIARY BREAKER | CONT. & SIGNAL LAMPS | MAIN BREAKER | SIGNALS | LIGHTING | 120 VOLT CONTROL CABINET | MAIN BREAKER | Cl. Ft. |
| | | | Amps | | Amps | Amps | Amps | Amps | Amps | Amps | Cl. Ft. | |

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MO PE-2010000809

EFFECTIVE: 04-01-2018

| CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------|---------|--------|-----------------------------|-----|----------|-----|----------------|---|--------------------------|--------|--------------|-----------|--------------|---------------------|---|----|--------------------|-----|----------------|--------|--------|
| LOCATION | | | SYSTEM MASTER (CLOSED LOOP) | | ACTUATED | | ON-OFF* SWITCH | | COORDINATION INTERFACE * | | | | TIME * CLOCK | NEMA CABINET TYPE * | | | 170 CABINET TYPE * | | 170 SOFTWARE * | | |
| APPROACH | STATION | OFFSET | NEMA | 170 | NEMA | 170 | TYPE | I | II | 12C/7C | HARDWARE (1) | TIME BASE | CLOSED LOOP | FIBER | E | EV | DOUBLE | 332 | 336S | BITRAN | WAPITI |

| NEMA DETECTOR ASSIGNMENT | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|--|
| CARD POSITION | | | | | | | | | |
| CHANNEL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

| DETECTOR SCHEDULE | | | | | |
|-------------------|---------------|-------------------------------|--------------------|--|-------|
| DETECTOR NUMBER | APPROACH | TYPE | | | |
| | | PUSH BUTTON (APS) (RELOCATED) | INDUCTION LOOP (2) | | VIDEO |
| P3 | SE QUAD (UIP) | 1 | | | |
| P8 | SE QUAD (UIP) | 1 | | | |

TOTAL 2

- * ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
- *** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.
- (1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWARE INTERCONNECT.
- (2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.
- (3) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM FOR DETECTOR PUSH BUTTON (APS).

| NEMA LOAD SWITCH ASSIGNMENTS | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | | | | | | | | |

| SIGNAL SIGNS | | | | | |
|--------------|-------------------|-----------|---------|-----------------|-------------------------------|
| QUANTITY | MUTCD SIGN NUMBER | SIZE | AREA | SIGN TOTAL AREA | SIGNAL SIGN MOUNTING HARDWARE |
| | | INCHES | SQ. FT. | SQ. FT. | EA. |
| | R10-10L | 24 X 30 | 5.0 | | |
| | R10-10R | 24 X 30 | 5.0 | | |
| | R3-5L | 30 X 36 | 7.5 | | |
| | R3-5R | 30 X 36 | 7.5 | | |
| | R3-5A | 30 X 36 | 7.5 | | |
| | R3-6L | 30 X 36 | 7.5 | | |
| | R3-6R | 30 X 36 | 7.5 | | |
| | R3-2 | 24 X 24 | 4.0 | | |
| | R3-1 | 24 X 24 | 4.0 | | |
| | R3-3 | 24 X 24 | 4.0 | | |
| | D3-1 *** | VAR. X 18 | | | |
| | D3-1B *** | VAR. X 18 | | | |
| | R10-3E | 9 X 15 | 0.9 | | |
| | R10-11A | 24 X 30 | 5.0 | | |
| | R10-13 | 36 X 24 | 6.0 | | |
| | R10-27A | 30 X 36 | 7.5 | | |
| | SUBTOTAL | | | | |
| | TOTAL | | | | |

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

| 170 INPUT FILE ASSIGNMENTS | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| CHANNEL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| "I" | U | | | | | | | | | | | | | |
| "I" | L | | | | | | | | | | | | | |
| "J" | U | | | | | | | | | | | | | |
| "J" | L | | | | | | | | | | | | | |

| 170 OUTPUT FILE ASSIGNMENTS | | | | | |
|-----------------------------|-----|-----|-----|---------|--|
| FR1 | FR2 | FR3 | FR4 | MONITOR | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| 170 AUXILIARY OUTPUT FILE | | | | | |
|---------------------------|-----|--|--|--|--|
| FR5 | FR6 | | | | |
| | | | | | |
| | | | | | |

ROUTE 163 (PROVIDENCE RD.)
AT ROGERS ST. / WORLEY ST.
INTERSECTION

D-37C

SIGNAL SHEET
LOCATION 1C - COLUMBIA
ROUTE 163
SHEET 16 OF 36

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

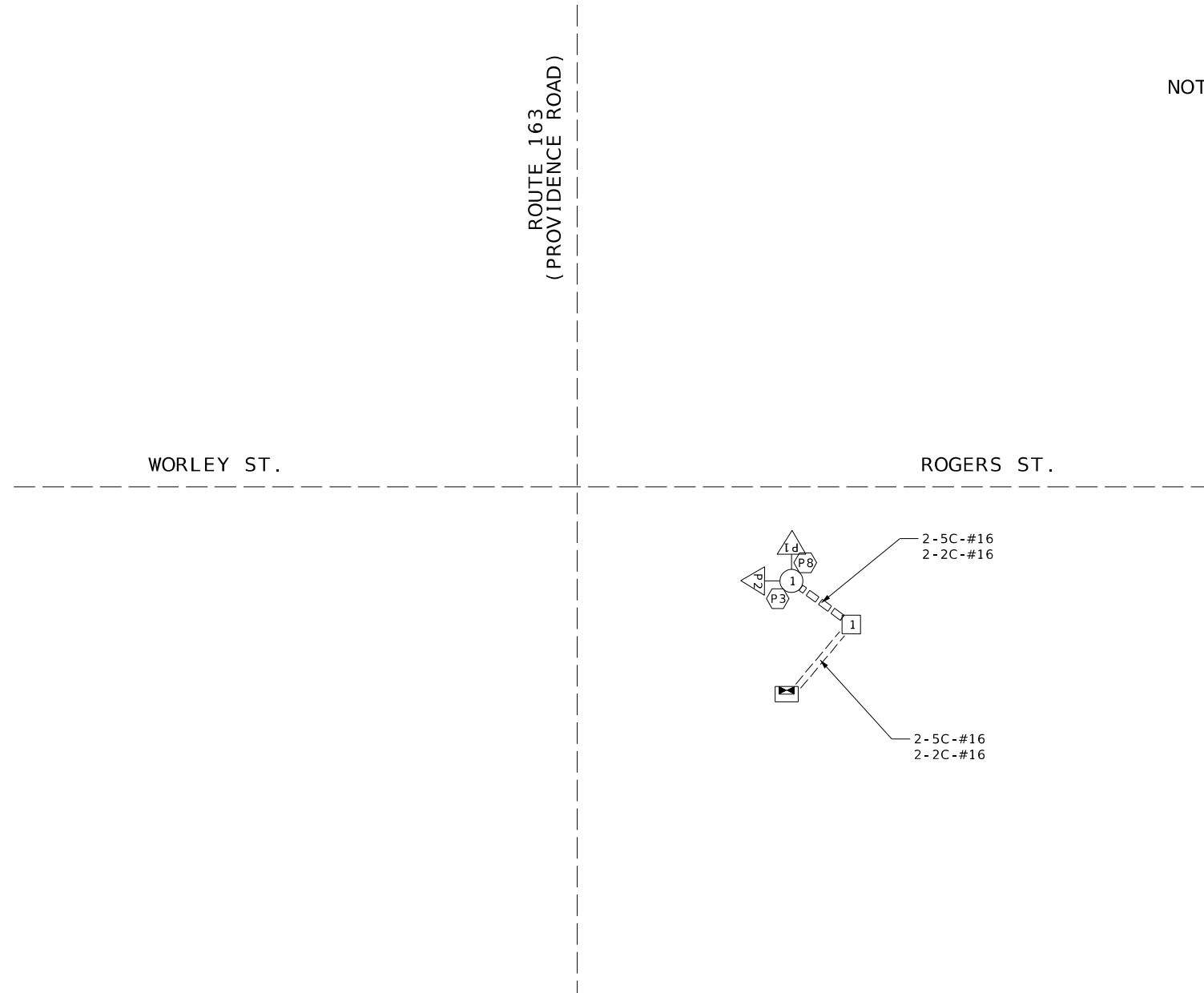
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

EFFECTIVE: 12-01-2017

WIRING DIAGRAM

NOT TO SCALE



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12/29/2024 5:21:15 PM
 Nicholas Michael Correnti - CIVIL
 MO PE-2010000809

LEGEND

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

| | |
|---------------|-----------|
| DATE PREPARED | |
| 12/29/2024 | |
| ROUTE | STATE |
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 65 |
| COUNTY | |
| VARIOUS | |
| JOB NO. | |
| JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

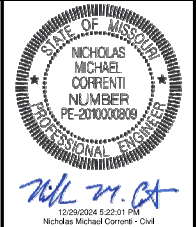
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 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

ROUTE 163 (PROVIDENCE RD.)
 AT ROGERS ST. / WORLEY ST.
 INTERSECTION

SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 17 OF 36

D-37D

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EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

| FACE NUMBERS | PHASES | | | | | | | | PEDESTRIAN OVERLAP | | | |
|-----------------------|----------|---------|----------|---------|----------|---------|---------|---------|-----------------------------------|----------------|----------------|----------------|
| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 | PED 02 OVERLAP | PED 04 OVERLAP | PED 06 OVERLAP | PED 08 OVERLAP |
| R | NOT USED | ← ↑ | NOT USED | ↑ → | NOT USED | ↓ → | ← ↓ | ↑ ↓ | | | | |
| Y | | | | | | | | | P1 | P2 | | |
| FYA | | | | | | | | | DW | DW | | |
| G | | | | | | | | | FDW | FDW | | |
| | | | | | | | | | W | W | | |
| DETECTOR ASSIGNMENTS | | | | | | | | | DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | |
| | | | | | | | | | P1 | P2 | | |
| OVERLAP PARENT PHASES | | | | | | | | | | | | |

| | |
|---------------|------------|
| DATE PREPARED | 12/29/2024 |
| ROUTE | VARIOUS |
| STATE | MO |
| DISTRICT | CD |
| SHEET NO. | 66 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

FACE NUMBERS

SIGNAL INDICATIONS

FACE NUMBERS

SIGNAL INDICATIONS

DETECTOR ASSIGNMENTS

DETECTOR ASSIGNMENTS

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

| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|--------|----------|---------|----------|---------|
| RING 1 | NOT USED | ← ↑ | NOT USED | ↑ → |
| RING 2 | NOT USED | ↑ ↓ | NOT USED | ↓ → |
| | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 |

RING STRUCTURE

NOTE: PHASING FOR INFORMATION ONLY;
 EXISTING TRAFFIC SIGNAL PHASING TO BE USED.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

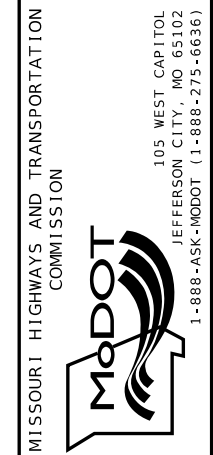
| LEGEND | |
|--------|------------------------------------------------------|
| → | ACTUATED VEHICULAR MOVEMENT |
| → | PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT |
| ▷ | NON-ACTUATED VEHICULAR MOVEMENT |
| ▷ | PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT |
| → | ACTUATED PEDESTRIAN MOVEMENT |
| ▷ | NON-ACTUATED PEDESTRIAN MOVEMENT |
| — | VEHICLE STOPPED |
| FDW | FLASHING DON'T WALK |
| W | WALK |
| DW | DON'T WALK |
| R/W | RIGHT OF WAY INTERVAL |
| YRT | YELLOW RIGHT ARROW |
| RT | GREEN RIGHT ARROW |
| LY | YELLOW LEFT ARROW |
| L | GREEN LEFT ARROW |
| S | GREEN STRAIGHT AHEAD ARROW |
| G | CIRCULAR GREEN |
| Y | CIRCULAR YELLOW |
| R | CIRCULAR RED |
| RL | RED LEFT ARROW |
| Ø | TRAFFIC PHASE |
| AO | ALL OTHERS |
| FR | FLASHING RED |
| FY | FLASHING CIRCULAR YELLOW |
| FYL | FLASHING YELLOW LEFT ARROW |

| FLASHING OPERATION | |
|--------------------|-------|
| ALL APPROACHES | FR |
| | FY |
| CONTROLLER TYPE | (UIP) |

| TRAFFIC SIGNAL CONTROL OPERATION | |
|--------------------------------------------|--|
| INTERSECTION OF ROUTE 163 (PROVIDENCE RD.) | |
| WITH ROGERS ST. / WORLEY ST. | |

D-38A

| | |
|--------------|------------------------|
| SIGNAL SHEET | LOCATION 1C - COLUMBIA |
| | ROUTE 163 |
| | SHEET 18 OF 36 |





Nick M. Correnti
 12/29/2024 5:22:30 PM
 Nicholas Michael Correnti - Civil
 MO PE-201000809

DATE PREPARED
 12/29/2024

ROUTE STATE
 VARIOUS MO

DISTRICT SHEET NO.
 CD 67

COUNTY
 VARIOUS

JOB NO.
 JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

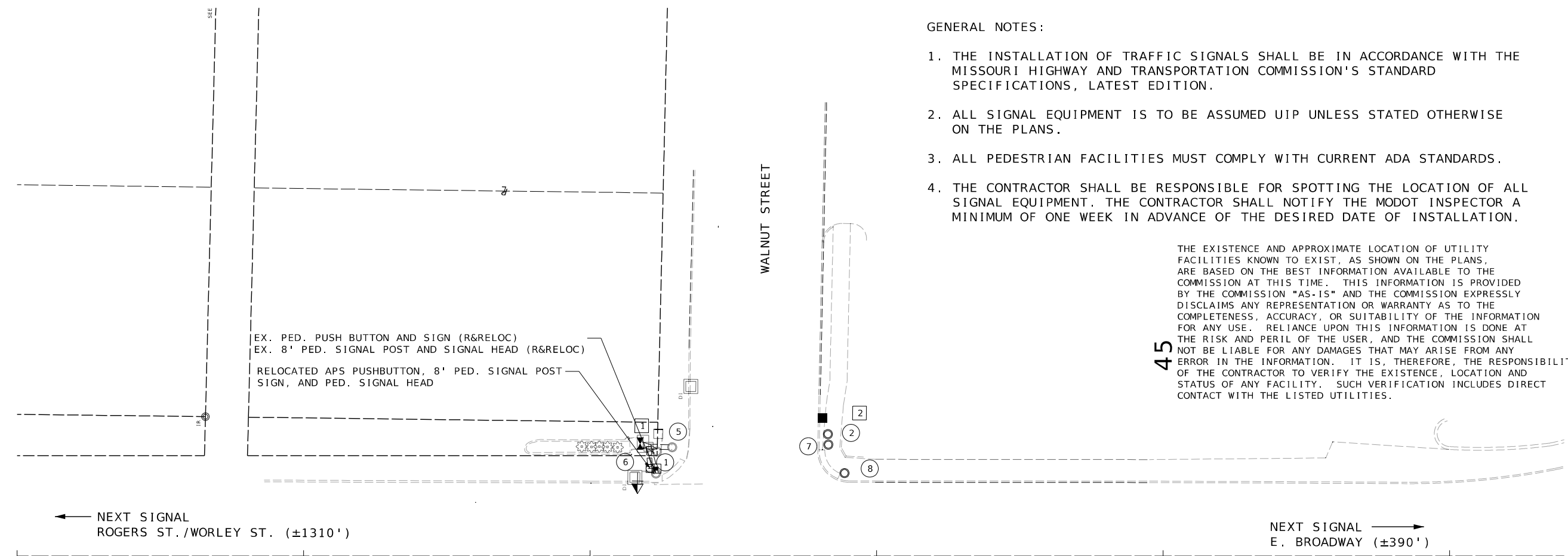
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 1-888-ASK-MODOT (1-888-275-6636)

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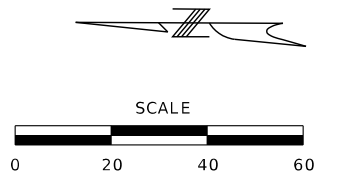
GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. ALL SIGNAL EQUIPMENT IS TO BE ASSUMED UIP UNLESS STATED OTHERWISE ON THE PLANS.
3. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.

45
 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.



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SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 19 OF 36



12/29/2024 5:23:12 PM
Nicholas Michael Correnti - Civil
MO PE-201000809

DATE PREPARED
12/29/2024
ROUTE STATE
VARIOUS MO
DISTRICT SHEET NO.
CD 68
COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

Table with 2 columns: DATE, DESCRIPTION

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

Main project data table with columns: POST NUMBER, PULL BOX NUMBER, LOCATION (APPROACH, STATION, OFFSET), BASE (A, F, C), PULL BOX (PREFORMED, CONCRETE), POST (TYPE C & CL, TYPE B & BL), LUMINAIRE BRACKET ARM*

SUBTOTAL and TOTAL rows for the main project data table.

SIGNAL HEADS

Signal heads table with columns: SPAN NUMBER, POST NUMBER, FACE NUMBER, LUMINAIRE, INDICATIONS, VISORS, LOUVERS, BACKPLATE, RETROREFLECTIVE BACKPLATE, BRACKET, ONE-FACE SECTION, TWO-FACE SECTIONS

SPAN WIRE POLES table with columns: POST NUMBER, WOOD CLASS IV, STEEL (A10 BASE REQUIRED)

SUBTOTAL OPTICALLY LIMITED, SUBTOTAL CONVENTIONAL (RELOCATED), SUBTOTAL COMBINATION OL & CONV, TOTAL OPTICALLY LIMITED, TOTAL CONVENTIONAL (RELOCATED), TOTAL COMBINATION OL & CONV

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.
SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

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ROUTE 163 (PROVIDENCE RD.)
AT WALNUT ST.

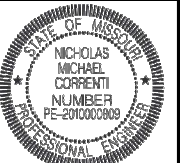
INTERSECTION

LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

D-37A

SIGNAL SHEET
LOCATION 1C - COLUMBIA
ROUTE 163
SHEET 20 OF 36

SPAN WIRE CABLE SPANS table with columns: SPAN NUMBER, FROM POST, TO POST, SINGLE MESSENGER ASSEMBLY (LIN. FT.), MESSENGER ASSEMBLY WITH TETHER (LIN. FT.)



Nick M. Correnti
 02/03/2025 3:18:24 PM
 Nicholas Michael Correnti - Civil
 MO PE-2010000909

CONDUIT (WITH #14 TRACER WIRE)

CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | LOOP DET. | TRENCH | | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS | FROM | TO | CENTER TO CENTER DISTANCE | POWER | CONTROL | | | | CLOSED LOOP INTERCONNECT | LUMINAIRE | | DETECTOR | | FIBER | | REMARKS | | | | | | | |
|-----------|----|---------------------------|-----------|--------|----|----|----|--------|----|----|--------|----|----|--------------|----|---------|------|----|---------------------------|-------|---------|--------|--------|--------|--------------------------|------------|---------|----------------|----------------|----------------------|-------------|---------|------------|--|--|--|--|--|--|
| | | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | 2c #16 | 5c #16 | 7c #16 | 3c #16 | | 3 PAIR #16 | CONTROL | POLE & BRACKET | 1c #14 IN DUCT | 2c #14 LEAD-IN CABLE | SINGLE-MODE | | MULTI-MODE | | | | | | |
| 1 | 6 | 8 | | | | | | 10 | | | | | | | | | 6 | 11 | | | 31 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 6 | 11 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ROUTE | STATE |
|--------------|-----------|
| VARIOUS | MO |
| DISTRICT | SHEET NO. |
| CD | 69 |
| COUNTY | VARIOUS |
| JOB NO. | JCD0076 |
| 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)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
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 Missouri Certificate of Authority: 001578

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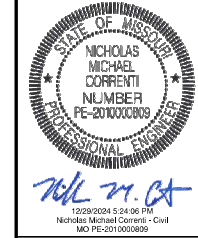
SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 21 OF 36

ROUTE 163 (PROVIDENCE RD.)
 AT WALNUT ST.

D-37B

| POWER SUPPLY | | | | | | | | | | | | | |
|---------------|---------|--------|-----------------------|---------|------------------------------|---------------------|-------------------------|----------|--------------------------------------|--|--------------|------------------|-----------------|
| LOCATION | | | POWER SUPPLY ASSEMBLY | | CIRCUIT BREAKER TRIP RATING* | | | | LIGHTING CONTROL * (ON POWER SUPPLY) | | SERVICE POLE | | |
| APPROACH | STATION | OFFSET | DRAWING 902.15 | DRAWING | CONTROLLER | | POWER SUPPLY DISCONNECT | | 120 VOLT CONTROL CABINET | | MAIN BREAKER | CONTRACT FURNISH | UTILITY COMPANY |
| | | | | | AUXILIARY BREAKER | CONT & SIGNAL LAMPS | SIGNALS | LIGHTING | | | | | |
| NE QUAD (UIP) | | | Type | | 15 Amps | Amps | Amps | Amps | | | | CI. | FT. |
| | | | Type | | 15 Amps | Amps | Amps | Amps | | | | CI. | FT. |

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EFFECTIVE: 04-01-2018

| CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------|---------|--------|-----------------------------|-----|----------|-----|----------------|----|--------------------------|-----------|-------------|-----|---------------------|------------|---|--------------------|--------|----------------|------|--------|--------|
| LOCATION | | | SYSTEM MASTER (CLOSED LOOP) | | ACTUATED | | ON-OFF* SWITCH | | COORDINATION INTERFACE * | | | | NEMA CABINET TYPE * | | | 170 CABINET TYPE * | | 170 SOFTWARE * | | | |
| APPROACH | STATION | OFFSET | NEMA | 170 | NEMA | 170 | TYPE | | 12C/7C HARDWARE (1) | TIME BASE | CLOSED LOOP | | FIBER | TIME CLOCK | E | EV | DOUBLE | 332 | 336S | BITRAN | WAPITI |
| | | | | | | | I | II | | | NEMA | 170 | | | | | | | | | |
| NE QUAD (UIP) | | | | | | | | | | | | | | | | | | | | | |

NEMA DETECTOR ASSIGNMENT

CARD POSITION

| CHANNEL | CARD | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------|------|---|---|---|---|---|---|---|---|
| | | 1 | | | | | | | |
| 2 | | | | | | | | | |

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

DETECTOR SCHEDULE

| DETECTOR NUMBER | APPROACH | TYPE | | | | |
|-----------------|----------|-------------------------------|--------------------|----------------|-------------|-------|
| | | PUSH BUTTON (APS) (RELOCATED) | INDUCTION LOOP (2) | | | VIDEO |
| | | | STANDARD | DELAY/EXTEND * | CALL UNIT * | |
| P8 | NE QUAD | 1 | | | | |
| TOTAL | | 1 | | | | |

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
 *** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

- (1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWARE INTERCONNECT.
- (2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.
- (3) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM FOR DETECTOR PUSH BUTTON (APS).

| DATE | DESCRIPTION |
|------|-------------|
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NEMA LOAD SWITCH ASSIGNMENTS

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | | | | | | | |

SIGNAL SIGNS

| QUANTITY | MUTCD SIGN NUMBER | SIZE | AREA | SIGN TOTAL AREA | | SIGN SIGNAL MOUNTING HARDWARE |
|----------|-------------------|-----------|---------|-------------------|-------------------|-------------------------------|
| | | | | ITEM NO. 90208.33 | ITEM NO. 90208.34 | |
| | | INCHES | SQ. FT. | SQ. FT. | EA. | |
| | R10-10L | 24 X 30 | 5.0 | | | |
| | R10-10R | 24 X 30 | 5.0 | | | |
| | R3-5L | 30 X 36 | 7.5 | | | |
| | R3-5R | 30 X 36 | 7.5 | | | |
| | R3-5A | 30 X 36 | 7.5 | | | |
| | R3-6L | 30 X 36 | 7.5 | | | |
| | R3-6R | 30 X 36 | 7.5 | | | |
| | R3-2 | 24 X 24 | 4.0 | | | |
| | R3-1 | 24 X 24 | 4.0 | | | |
| | R3-3 | 24 X 24 | 4.0 | | | |
| | D3-1 *** | VAR. X 18 | | | | |
| | D3-1B *** | VAR. X 18 | | | | |
| | R10-3E | 9 X 15 | 0.9 | | | |
| | R10-11A | 24 X 30 | 5.0 | | | |
| | R10-13 | 36 X 24 | 6.0 | | | |
| | R10-27A | 30 X 36 | 7.5 | | | |
| | SUBTOTAL | | | | | |
| | TOTAL | | | | | |

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

| 170 INPUT FILE ASSIGNMENTS | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|--|
| CHANNEL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| "I" | U | | | | | | | | | | | | | | |
| | L | | | | | | | | | | | | | | |
| "J" | U | | | | | | | | | | | | | | |
| | L | | | | | | | | | | | | | | |

| 170 OUTPUT FILE ASSIGNMENTS | | | | | | |
|-----------------------------|--|--|--|--|--|---------|
| FR1 | | | | | | MONITOR |
| FR2 | | | | | | |
| FR3 | | | | | | |
| FR4 | | | | | | |

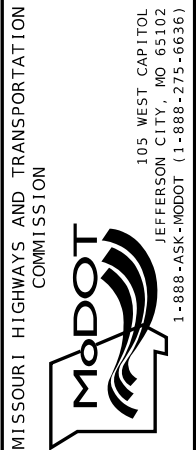
| 170 AUXILIARY OUTPUT FILE | | | | | | |
|---------------------------|--|--|--|--|--|---|
| FR5 | | | | | | X |
| FR6 | | | | | | |

SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 22 OF 36

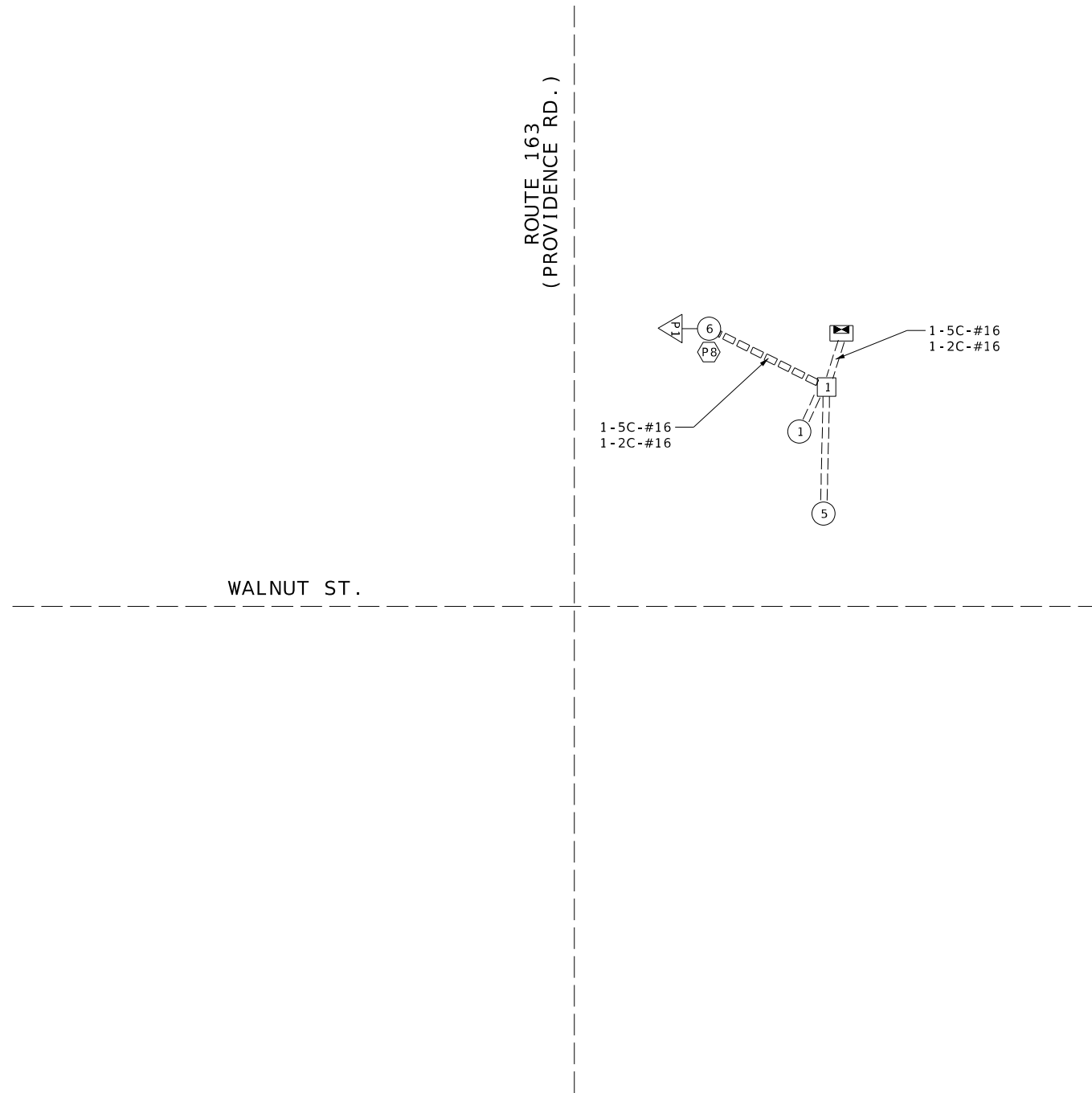
ROUTE 163 (PROVIDENCE RD.)
 AT WALNUT ST.

INTERSECTION

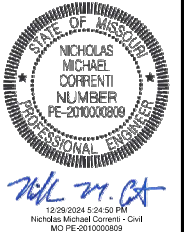
D-37C



WIRING DIAGRAM



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 EFFECTIVE: 12-01-2017



LEGEND

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

| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 71 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

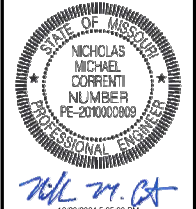
ROUTE 163 (PROVIDENCE RD.)
 AT WALNUT ST.

INTERSECTION

SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 23 OF 36

D-37D

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DATE PREPARED
 12/29/2024
 ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 72
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

EFFECTIVE: 12-01-2017

| FACE NUMBERS | | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 | PED 02 OVERLAP | PED 04 OVERLAP | PED 06 OVERLAP | PED 08 OVERLAP | FACE NUMBERS | |
|-----------------------|--|---------|---------|----------|---------|----------|---------|---------|---------|-----------------------------------|----------------|----------------|----------------|----------------------|--|
| R | | | | NOT USED | | NOT USED | | | | | | | | P1 | |
| Y | | | | | | | | | | | | | | DW | |
| FYA | | | | | | | | | | | | | | FDW | |
| G | | | | | | | | | | | | | | W | |
| DETECTOR ASSIGNMENTS | | | | | | | | | | DETECTOR ASSIGNMENTS (PIDS. ONLY) | | | | DETECTOR ASSIGNMENTS | |
| | | | | | | | | | | | | | | P1 | |
| OVERLAP PARENT PHASES | | | | | | | | | | | | | | | |

SIGNAL INDICATIONS

DETECTOR ASSIGNMENTS

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|--------|----------|---------|----------|---------|
| RING 1 | | | NOT USED | |
| RING 2 | NOT USED | | | |
| | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 |

RING STRUCTURE

NOTE: PHASING SHOWN FOR INFORMATION ONLY;
 EXISTING TRAFFIC SIGNAL PHASING TO BE USED.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ▶— ACTUATED VEHICULAR MOVEMENT
- ▶— PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷— NON-ACTUATED VEHICULAR MOVEMENT
- ▷— PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ▶— ACTUATED PEDESTRIAN MOVEMENT
- ▷— NON-ACTUATED PEDESTRIAN MOVEMENT
- |— VEHICLE STOPPED
- FDW— FLASHING DON'T WALK
- W— WALK
- DW— DON'T WALK
- R/W— RIGHT OF WAY INTERVAL
- YRt— YELLOW RIGHT ARROW
- RT— GREEN RIGHT ARROW
- LY - YL— YELLOW LEFT ARROW
- L— GREEN LEFT ARROW
- S— GREEN STRAIGHT AHEAD ARROW
- G— CIRCULAR GREEN
- Y— CIRCULAR YELLOW
- R— CIRCULAR RED
- RL— RED LEFT ARROW
- Ø— TRAFFIC PHASE
- AO— ALL OTHERS
- FR— FLASHING RED
- FY— FLASHING CIRCULAR YELLOW
- FYL— FLASHING YELLOW LEFT ARROW

FLASHING OPERATION

| | |
|-----------------|-------|
| ALL APPROACHES | FR |
| | FY |
| CONTROLLER TYPE | (UIP) |

TRAFFIC SIGNAL CONTROL OPERATION

| |
|--------------------------------------------|
| INTERSECTION OF ROUTE 163 (PROVIDENCE RD.) |
| WITH WALNUT ST. |

D-38A

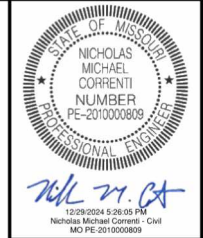
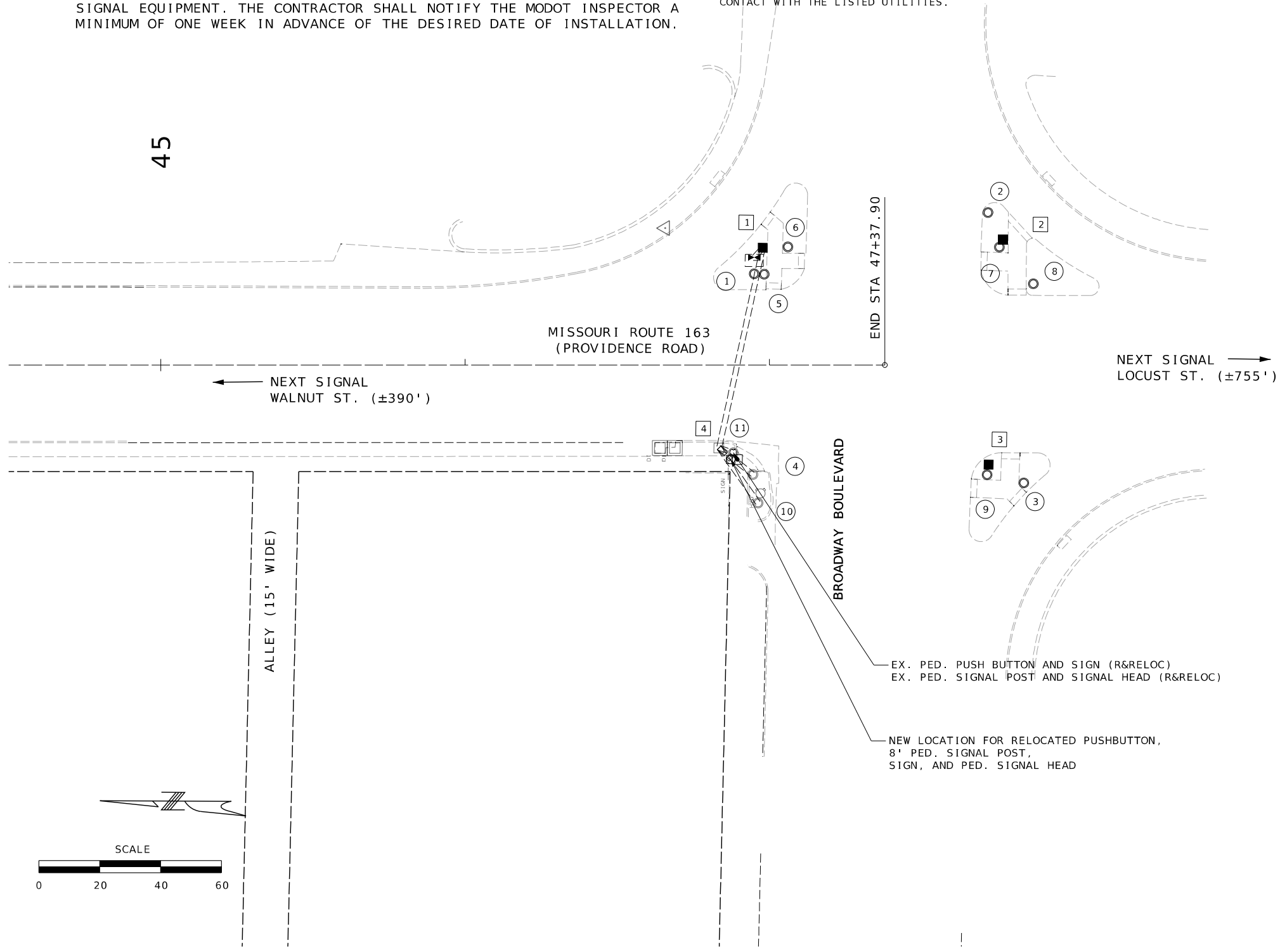
SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 24 OF 36

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. ALL SIGNAL EQUIPMENT IS TO BE ASSUMED UIP UNLESS STATED OTHERWISE ON THE PLANS.
3. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.

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.

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DATE PREPARED
 12/29/2024

ROUTE STATE
 VARIOUS MO

DISTRICT SHEET NO.
 CD 73

COUNTY
 VARIOUS

JOB NO.
 JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

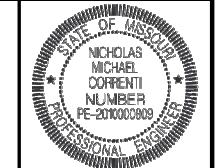
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SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 25 OF 36

Main table with columns: LOCATION (APPROACH, STATION, OFFSET), BASE (A, F, C, CONCRETE), PULL BOX (CLASS 1-5, STANDARD, DOUBLE), POST (TYPE C & CL, TYPE B & BL), and LUMINAIRE BRACKET ARM* (INCLUDED ANGLE).



Project Information Form: DATE PREPARED (12/29/2024), ROUTE (VARIOUS), STATE (MO), DISTRICT (CD), SHEET NO. (74), COUNTY (VARIOUS), JOB NO. (JCD0076), CONTRACT ID., PROJECT NO., BRIDGE NO.

SIGNAL HEADS table with columns for SPAN NUMBER, POST NUMBER, FACE NUMBER, LUMINAIRE 150W SODIUM, INDICATIONS * (12" LENS CONVENTIONAL, OPTICAL LIMITING), VISORS * (12" LENS, PED.), LOUVERS *, BACKPLATE*, RETROREFLECTIVE BACKPLATE*, BRACKET*, ONE-FACE SECTION, and TWO-FACE SECTIONS.

SPAN WIRE POLES table with columns: SUBTOTAL TOTAL, POST NUMBER, WOOD CLASS IV, STEEL (A10 BASE REQUIRED).

SUBTOTAL table with columns: SUBTOTAL OPTICALLY LIMITED, SUBTOTAL CONVENTIONAL (RELOCATED), SUBTOTAL COMBINATION OL & CONV, TOTAL OPTICALLY LIMITED, TOTAL CONVENTIONAL (RELOCATED), TOTAL COMBINATION OL & CONV.

SPAN WIRE CABLE SPANS table with columns: SPAN NUMBER, FROM POST, TO POST, SINGLE MESSENGER ASSEMBLY (LIN. FT.), MESSENGER ASSEMBLY WITH TETHER (LIN. FT.), SUBTOTAL TOTAL.

REMARKS: ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED. * ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE. ** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES. *** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE. SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

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ROUTE 163 (PROVIDENCE RD.) AT BROADWAY BLVD. INTERSECTION
LEGEND: T - TOP MOUNT, S - SIDE MOUNT, C - SPANWIRE MOUNT, B - MAST ARM MOUNT
D-37A

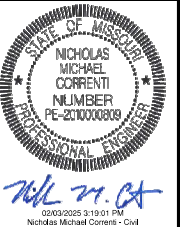
DESCRIPTION, DATE, MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

Modot logo, Missouri Engineering Design logo, contact information: 13523 Barrett Parkway Dr, Suite 250, St. Louis, MO 63021, Phone 314-394-3100, Fax 314-394-3199, Missouri Certificate of Authority: 001578

CONDUIT (WITH #14 TRACER WIRE)

CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | LOOP DET. | TRENCH | | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS | FROM | TO | CENTER TO CENTER DISTANCE | POWER | CONTROL | | | | CLOSED LOOP INTERCONNECT | LUMINAIRE | | DETECTOR | | FIBER | | REMARKS | | | | | | |
|-----------|----|---------------------------|-----------|--------|----|----|----|--------|----|----|--------|----|----|--------------|----|---------|-----------|----|---------------------------|-------|---------|--------|--------|--------|--------------------------|------------|---------|----------------|----------------|----------------------|-------------|---------|------------|--|--|--|--|--|
| | | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | 2c #16 | 5c #16 | 7c #16 | 3c #16 | | 3 PAIR #16 | CONTROL | POLE & BRACKET | 1c #14 IN DUCT | 2c #14 LEAD-IN CABLE | SINGLE-MODE | | MULTI-MODE | | | | | |
| | | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | 2c #12 | 1c #10 | | | | | | | | | | | | | | | | |
| 1 | 6 | 5 | | | | | | 7 | | | | | | | | | 6 | 77 | | | 106 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 6 | 77 | | | | | | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | | | | | 7 | | | | | | | | | SUBTOTALS | | | | | | 106 | 107 | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | 7 | | | | | | | | | TOTALS | | | | | | 110 | 110 | | | | | | | | | | | | | | |



DATE PREPARED
2/3/2025

ROUTE
VARIOUS

STATE
MO

DISTRICT
CD

SHEET NO.
75

COUNTY
VARIOUS

JOB NO.
JCD0076

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)

EFK Moen
Civil Engineering Design

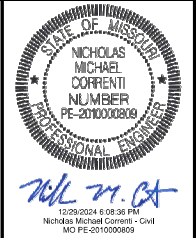
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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SIGNAL SHEET
LOCATION 1C - COLUMBIA
ROUTE 163
SHEET 27 OF 36

| POWER SUPPLY | | | | | | | | | | | | |
|---------------|---------|--------|-----------------------|---------|------------------------------|---------------------|-------------------------|---------|--------------------------------------|--------------|------------------|-----------------|
| LOCATION | | | POWER SUPPLY ASSEMBLY | | CIRCUIT BREAKER TRIP RATING* | | | | LIGHTING CONTROL * (ON POWER SUPPLY) | | SERVICE POLE | |
| APPROACH | STATION | OFFSET | DRAWING 902.15 | DRAWING | CONTROLLER | | POWER SUPPLY DISCONNECT | | 120 VOLT CONTROL CABINET | | CONTRACT FURNISH | UTILITY COMPANY |
| | | | | | AUXILIARY BREAKER | CONT & SIGNAL LAMPS | MAIN BREAKER | SIGNALS | LIGHTING | MAIN BREAKER | | |
| NE QUAD (UIP) | | | Type | | 15 Amps | | Amps | Amps | | Amps | Cl. | Ft. |
| | | | Type | | 15 Amps | | Amps | Amps | | Amps | Cl. | Ft. |

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EFFECTIVE: 04-01-2018

| CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------|---------|--------|-----------------------------|----|----------|-------|----------------|-----|--------------------------|---|-----------|-------------|--------|---------------------|------------|-----|--------------------|--------|----------------|--|------|--|--------|--|--------|--|--|--|--|--|--|--|
| LOCATION | | | SYSTEM MASTER (CLOSED LOOP) | | ACTUATED | | ON-OFF* SWITCH | | COORDINATION INTERFACE * | | | | | NEMA CABINET TYPE * | | | 170 CABINET TYPE * | | 170 SOFTWARE * | | | | | | | | | | | | | |
| APPROACH | STATION | OFFSET | NEMA | | 170 | | TYPE | | 12C/7C HARDWARE (1) | | TIME BASE | CLOSED LOOP | | FIBER | TIME CLOCK | E | | | 332 | | 336S | | BITRAN | | WAPITI | | | | | | | |
| | | | I | II | MASTER | LOCAL | NEMA | 170 | FIBER | E | | EV | DOUBLE | | | 332 | 336S | BITRAN | WAPITI | | | | | | | | | | | | | |
| NE QUAD (UIP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NEMA DETECTOR ASSIGNMENT | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|--|
| CARD POSITION | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| CHANNEL | 1 | | | | | | | | | |
| | 2 | | | | | | | | | |

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

| DETECTOR SCHEDULE | | | | | | |
|-------------------|----------|-------------------------------|----------|----------------|-------------|-------|
| DETECTOR NUMBER | APPROACH | PUSH BUTTON (APS) (RELOCATED) | TYPE | | | VIDEO |
| | | | STANDARD | DELAY/EXTEND * | CALL UNIT * | |
| P8 | NE QUAD | 1 | | | | |
| TOTAL | | | 1 | | | |

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

- (1) MoDOT *D* PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWARE INTERCONNECT.
- (2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.
- (3) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM FOR DETECTOR PUSH BUTTON (APS).

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

| NEMA LOAD SWITCH ASSIGNMENTS | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | | | | | | | | |

| 170 OUTPUT FILE ASSIGNMENTS | | | | | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|---------|--|--|--|--|
| FR1 | FR2 | FR3 | FR4 | FR5 | FR6 | MONITOR | | | | |
| | | | | | | | | | | |

| SIGNAL SIGNS | | | | | |
|--------------|-------------------|-----------|---------|-----------------|-------------------------------|
| QUANTITY | MUTCD SIGN NUMBER | SIZE | AREA | SIGN TOTAL AREA | SIGNAL SIGN MOUNTING HARDWARE |
| | | INCHES | SQ. FT. | SQ. FT. | EA. |
| | R10-10L | 24 X 30 | 5.0 | | |
| | R10-10R | 24 X 30 | 5.0 | | |
| | R3-5L | 30 X 36 | 7.5 | | |
| | R3-5R | 30 X 36 | 7.5 | | |
| | R3-5A | 30 X 36 | 7.5 | | |
| | R3-6L | 30 X 36 | 7.5 | | |
| | R3-6R | 30 X 36 | 7.5 | | |
| | R3-2 | 24 X 24 | 4.0 | | |
| | R3-1 | 24 X 24 | 4.0 | | |
| | R3-3 | 24 X 24 | 4.0 | | |
| | D3-1 *** | VAR. X 18 | | | |
| | D3-1B *** | VAR. X 18 | | | |
| | R10-3E | 9 X 15 | 0.9 | | |
| | R10-11A | 24 X 30 | 5.0 | | |
| | R10-13 | 36 X 24 | 6.0 | | |
| | R10-27A | 30 X 36 | 7.5 | | |
| | SUBTOTAL | | | | |
| | TOTAL | | | | |

| 170 INPUT FILE ASSIGNMENTS | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|--|
| CHANNEL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| "I" | U | | | | | | | | | | | | | | |
| | L | | | | | | | | | | | | | | |
| "J" | U | | | | | | | | | | | | | | |
| | L | | | | | | | | | | | | | | |

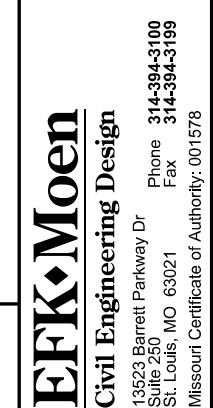
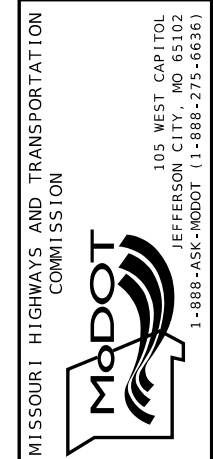
TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

| 170 AUXILIARY OUTPUT FILE | | | | | | | | | |
|---------------------------|-----|---|--|--|--|--|--|--|--|
| FR5 | FR6 | X | | | | | | | |
| | | | | | | | | | |

ROUTE 163 (PROVIDENCE RD.)
 AT BROADWAY BLVD.
 INTERSECTION

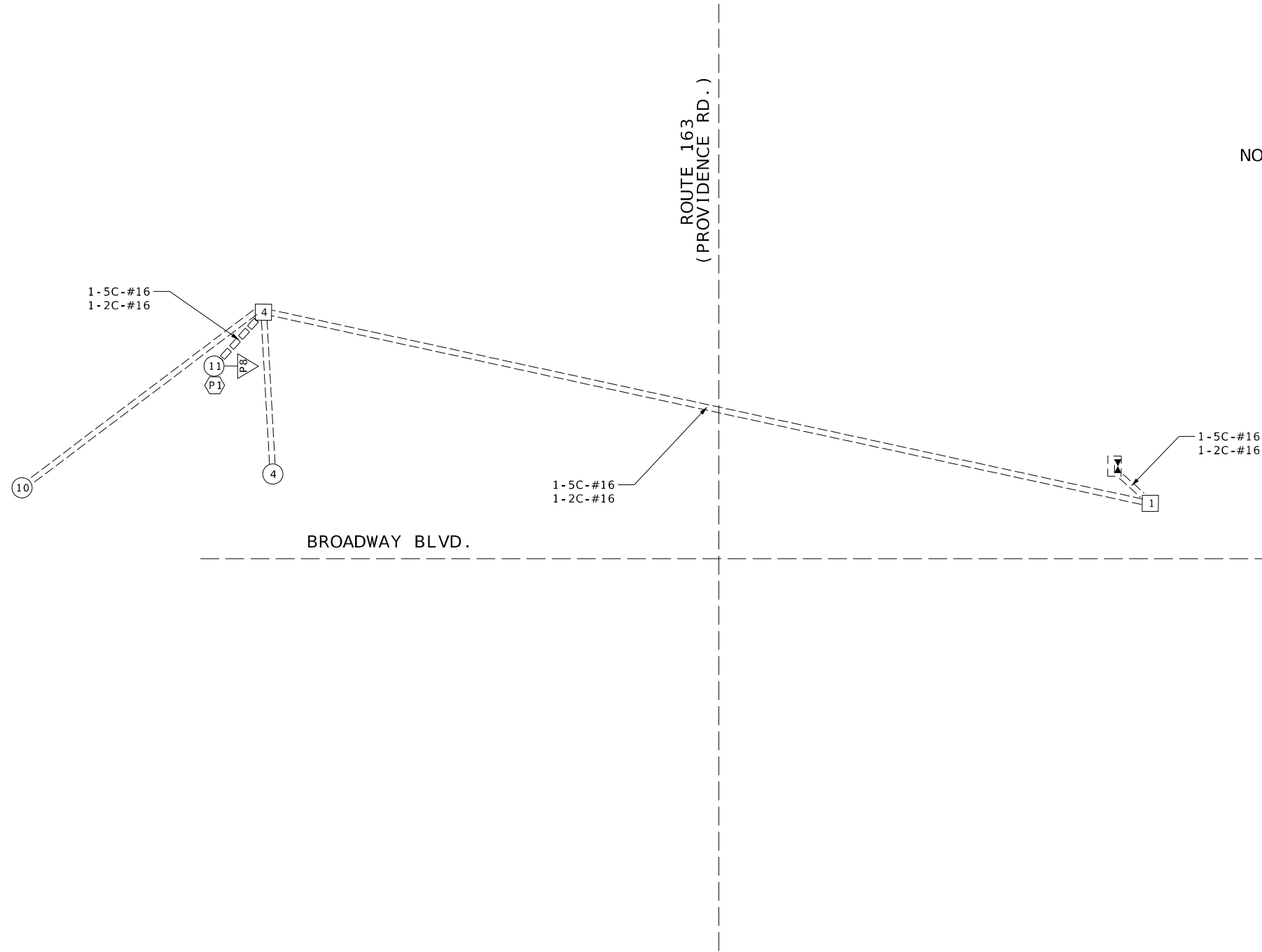
D-37C

SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 28 OF 36

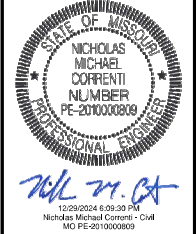


WIRING DIAGRAM

NOT TO SCALE



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 EFFECTIVE: 12-01-2017



LEGEND

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

| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 77 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

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

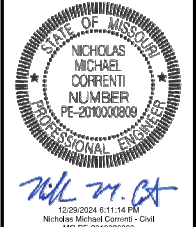
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

ROUTE 163 (PROVIDENCE RD.)
 AT BROADWAY BLVD.
 INTERSECTION

SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 29 OF 36

D-37D

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EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

| FACE NUMBERS | | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 | PED 02 OVERLAP | PED 04 OVERLAP | PED 06 OVERLAP | PED 08 OVERLAP | FACE NUMBERS | | |
|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|-----------------------------------|----------------|----------------|----------------|--------------|-----|--|
| R | | | | | | | | | | | P4 | | | | R | |
| Y | | | | | | | | | | | DW | | | | Y | |
| FYA | | | | | | | | | | | FDW | | | | FYA | |
| G | | | | | | | | | | | W | | | | G | |
| DETECTOR ASSIGNMENTS | | | | | | | | | | | | | | | | |
| | | | | | | | | | | DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | |
| | | | | | | | | | | OVERLAP PARENT PHASES | | | | | | |

DATE PREPARED
12/29/2024

ROUTE STATE
VARIOUS MO

DISTRICT SHEET NO.
CD 78

COUNTY
VARIOUS

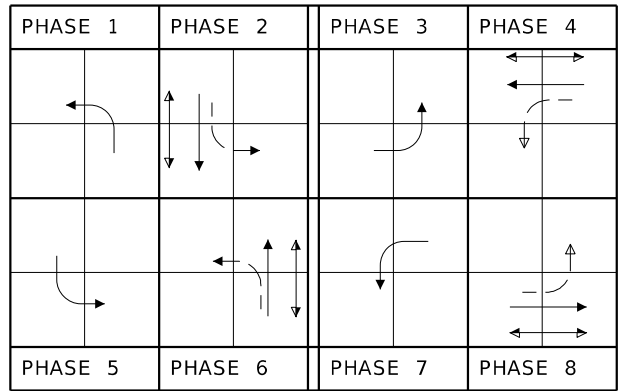
JOB NO.
JCD0076

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|-------------|------|
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NOTE: PHASING SHOWN FOR INFORMATION ONLY; EXISTING TRAFFIC SIGNAL PHASING TO BE USED.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ NON-ACTUATED VEHICULAR MOVEMENT
- ▷ PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- ▷ NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW - FLASHING DON'T WALK
- W - WALK
- DW - DON'T WALK
- R/W - RIGHT OF WAY INTERVAL
- YRt - YELLOW RIGHT ARROW
- RT. - GREEN RIGHT ARROW
- LY - YL - YELLOW LEFT ARROW
- L - GREEN LEFT ARROW
- S - GREEN STRAIGHT AHEAD ARROW
- G - CIRCULAR GREEN
- Y - CIRCULAR YELLOW
- R - CIRCULAR RED
- RL - RED LEFT ARROW
- Ø - TRAFFIC PHASE
- AO - ALL OTHERS
- FR - FLASHING RED
- FY - FLASHING CIRCULAR YELLOW
- FYL - FLASHING YELLOW LEFT ARROW

FLASHING OPERATION

| | |
|----------------|----|
| ALL APPROACHES | FR |
| | FY |

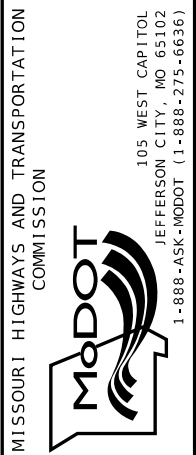
CONTROLLER TYPE (UIP)

TRAFFIC SIGNAL CONTROL OPERATION

| |
|--------------------------------------------|
| INTERSECTION OF ROUTE 163 (PROVIDENCE RD.) |
| WITH BROADWAY BLVD. |

D-38A

SIGNAL SHEET
 LOCATION 1C - COLUMBIA
 ROUTE 163
 SHEET 30 OF 36



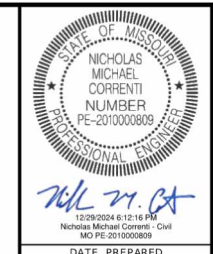
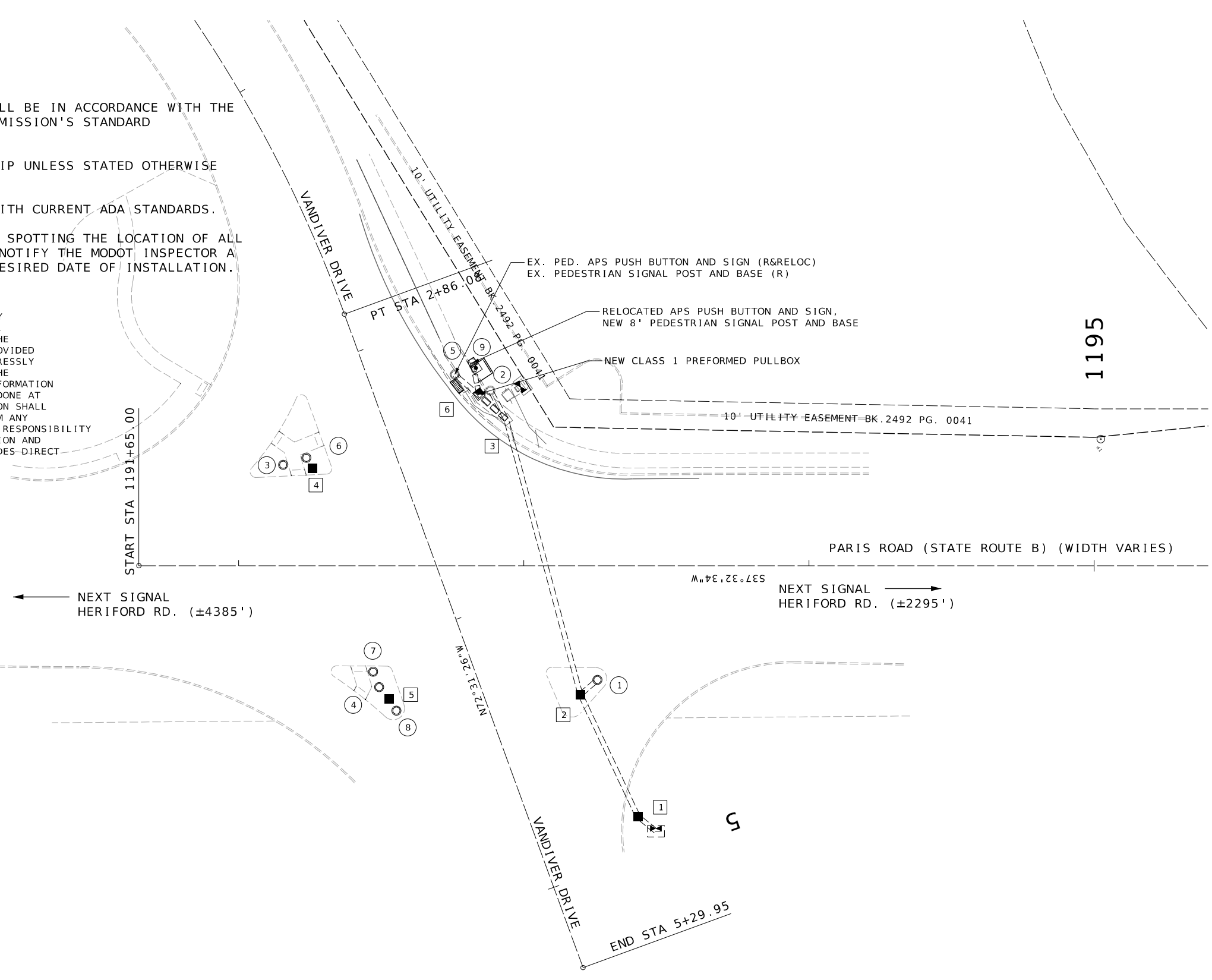
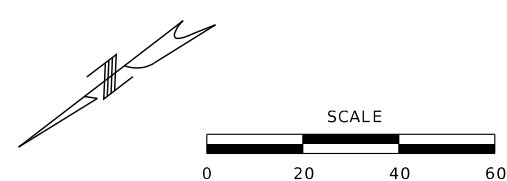
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. ALL SIGNAL EQUIPMENT IS TO BE ASSUMED UP UNLESS STATED OTHERWISE ON THE PLANS.
3. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.

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.

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| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 79 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

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

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

EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

SIGNAL SHEET
 LOCATION 1F - COLUMBIA
 ROUTE B
 SHEET 31 OF 36



12/29/2024 9:12:56 PM
Nicholas Michael Correnti - Civil
MO PE-201000809

DATE PREPARED
12/29/2024
ROUTE STATE
VARIOUS MO
DISTRICT SHEET NO.
CD 80
COUNTY
VARIOUS
JOB NO.
JCD0076
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

Table with 2 columns: DESCRIPTION, DATE

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

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

Main table with columns: LOCATION, BASE, PULL BOX, POST, LUMINAIRE BRACKET ARM*. Includes rows for route B and subtotal/totals.

SIGNAL HEADS table with columns: SPAN NUMBER, POST NUMBER, FACE NUMBER, LUMINAIRE, INDICATIONS, VISORS, LOUVERS, BACKPLATE, RETROREFLECTIVE BACKPLATE, BRACKET, ONE-FACE SECTION, TWO-FACE SECTIONS.

SPAN WIRE POLES table with columns: POST NUMBER, WOOD CLASS IV, STEEL (A10 BASE REQUIRED).

Summary table for signal heads: SUBTOTAL OPTICALLY LIMITED, SUBTOTAL CONVENTIONAL, SUBTOTAL COMBINATION OL & CONV, TOTAL OPTICALLY LIMITED, TOTAL CONVENTIONAL, TOTAL COMBINATION OL & CONV.

SPAN WIRE CABLE SPANS table with columns: SPAN NUMBER, FROM POST, TO POST, SINGLE MESSENGER ASSEMBLY, MESSENGER ASSEMBLY WITH TETHER.

REMARKS
ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.
SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

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ROUTE B (PARIS RD.)
AT VANDIVER DR.
INTERSECTION

LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

SIGNAL SHEET
LOCATION 1F - COLUMBIA
ROUTE B
SHEET 32 OF 36

D-37A



CONDUIT (WITH #14 TRACER WIRE)

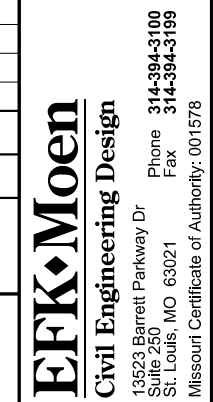
CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | LOOP DET. | TRENCH | | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS | FROM | TO | CENTER TO CENTER DISTANCE | POWER | CONTROL | | | | CLOSED LOOP INTERCONNECT | LUMINAIRE | | DETECTOR | | FIBER | | REMARKS | | | | | |
|-----------|----|---------------------------|-----------|--------|----|----|----|--------|----|----|--------|----|----|--------------|----|---------|------|----|---------------------------|-----------|---------|--------|--------|--------|--------------------------|------------|---------|----------------|----------------|----------------------|-------------|---------|------------|--|--|--|--|
| | | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | 2c #16 | 5c #16 | 7c #16 | 3c #16 | | 3 PAIR #16 | CONTROL | POLE & BRACKET | 1c #14 IN DUCT | 2c #14 LEAD-IN CABLE | SINGLE-MODE | | MULTI-MODE | | | | |
| | | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | | | | | | | | | | | | | 2c #12 | 1c #10 | | | | | | | | |
| 3 | 6 | 13 | | | | | | 15 | | | | | | | | | Ⓜ | 6 | 180 | | 227 | | | | | | | | | | | | | | | | |
| 6 | 5 | 11 | | | | | | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | | | | | 28 | | | | | | | | | | | | SUBTOTALS | | 227 | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | 28 | | | | | | | | | | | | TOTALS | | 230 | | | | | | | | | | | | | | | |

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ROUTE B (PARIS RD.)
AT VANDIVER DR. D-37B

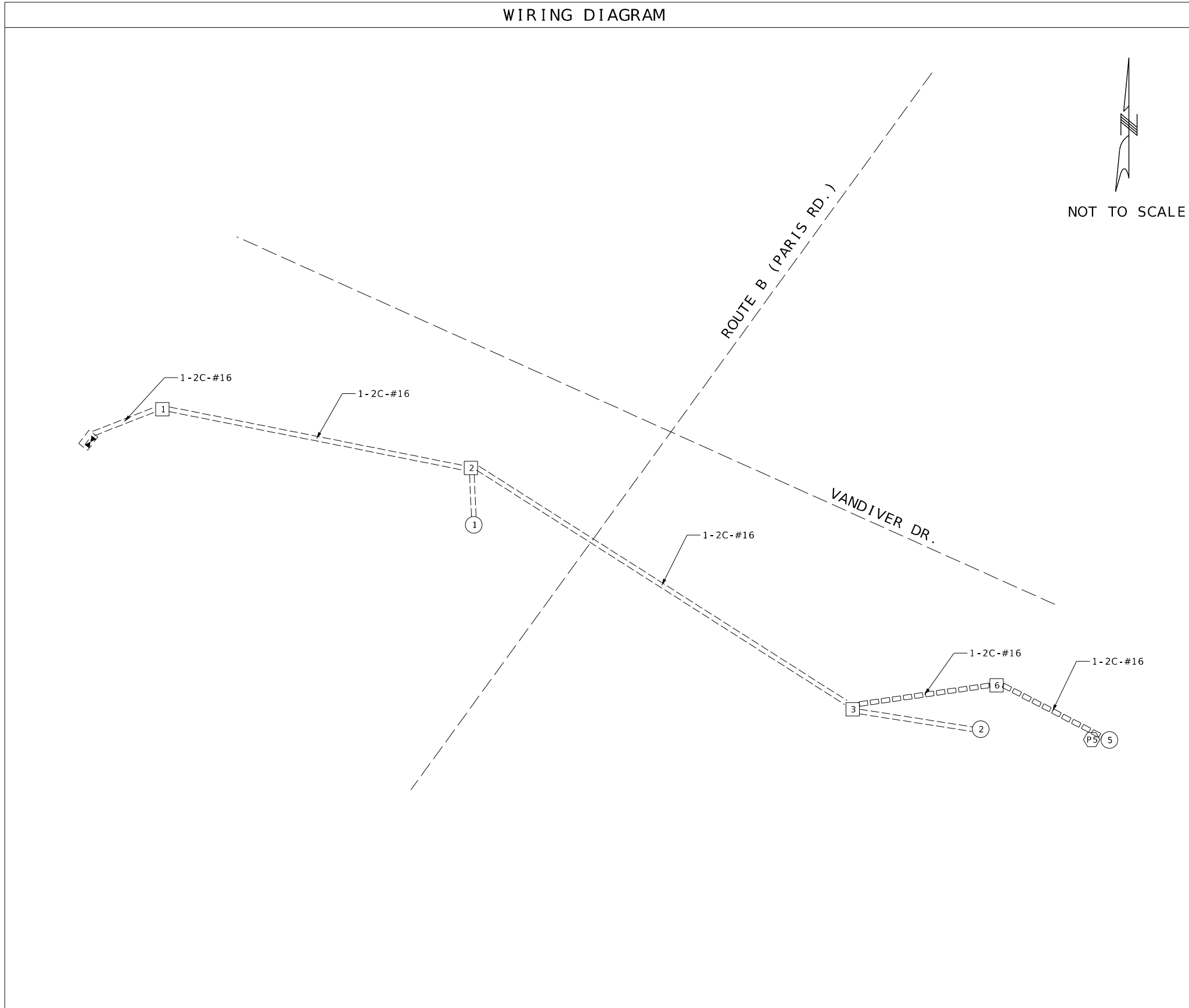
SIGNAL SHEET
LOCATION 1F - COLUMBIA
ROUTE B
SHEET 33 OF 36



| DESCRIPTION | DATE |
|-------------|------|
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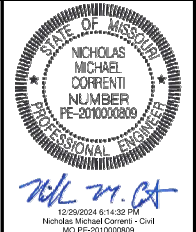
DATE PREPARED 12/29/2024
ROUTE STATE VARIOUS MO
DISTRICT SHEET NO. CD 81
COUNTY COUNTY VARIOUS
JOB NO. JCD0076
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

WIRING DIAGRAM



NOT TO SCALE

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 EFFECTIVE: 12-01-2017



LEGEND

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

| | |
|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 83 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| 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)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

ROUTE B (PARIS RD.)
 AT VANDIVER DR.
 INTERSECTION

SIGNAL SHEET
 LOCATION 1F - COLUMBIA
 ROUTE B
 SHEET 35 OF 36

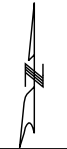
D-37D

DISCLAIMER
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DATE PREPARED
 12/29/2024
 ROUTE STATE
 VARIOUS MO
 DISTRICT SHEET NO.
 CD 84
 COUNTY
 VARIOUS
 JOB NO.
 JCD0076
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

SIGNAL FACE LOCATION



EFFECTIVE: 12-01-2017

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

| FACE NUMBERS | PHASES | | | | | | | | OVERLAP | | | | FACE NUMBERS | | |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|-----------------------------------|----------------|----------------|----------------|----------------|--------------|----------|-----|
| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 | PED 02 OVERLAP | PED 04 OVERLAP | PED 06 OVERLAP | PED 08 OVERLAP | | | |
| R | ← | ↓ | ↑ | → | ← | ↓ | ↑ | → | NOT USED | ← | ↑ | ↓ | → | NOT USED | R |
| Y | | | | | | | | | | | | | | | Y |
| FYA | | | | | | | | | | | | | | | FYA |
| G | | | | | | | | | | | | | | | G |
| DETECTOR ASSIGNMENTS | | | | | | | | DETECTOR ASSIGNMENTS | | | | | | | |
| DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | | | DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | | |
| OVERLAP PARENT PHASES | | | | | | | | OVERLAP PARENT PHASES | | | | | | | |

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|--------|---------|---------|---------|---------|
| RING 1 | ← | ↓ | ↑ | → |
| RING 2 | ← | ↓ | ↑ | → |
| | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 |

BARRIER

RING STRUCTURE

NOTE: PHASING SHOWN FOR INFORMATION ONLY; EXISTING TRAFFIC SIGNAL PHASING TO BE USED.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ NON-ACTUATED VEHICULAR MOVEMENT
- ▷ PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- ▷ NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW - FLASHING DON'T WALK
- W - WALK
- DW - DON'T WALK
- R/W - RIGHT OF WAY INTERVAL
- YRT - YELLOW RIGHT ARROW
- RT - GREEN RIGHT ARROW
- LY - YL - YELLOW LEFT ARROW
- L - GREEN LEFT ARROW
- S - GREEN STRAIGHT AHEAD ARROW
- G - CIRCULAR GREEN
- Y - CIRCULAR YELLOW
- R - CIRCULAR RED
- RL - RED LEFT ARROW
- Ø - TRAFFIC PHASE
- AO - ALL OTHERS
- FR - FLASHING RED
- FY - FLASHING CIRCULAR YELLOW
- FYL - FLASHING YELLOW LEFT ARROW

FLASHING OPERATION

| | |
|----------------|----|
| ALL APPROACHES | FR |
| | FY |

CONTROLLER TYPE (UIP)

TRAFFIC SIGNAL CONTROL OPERATION

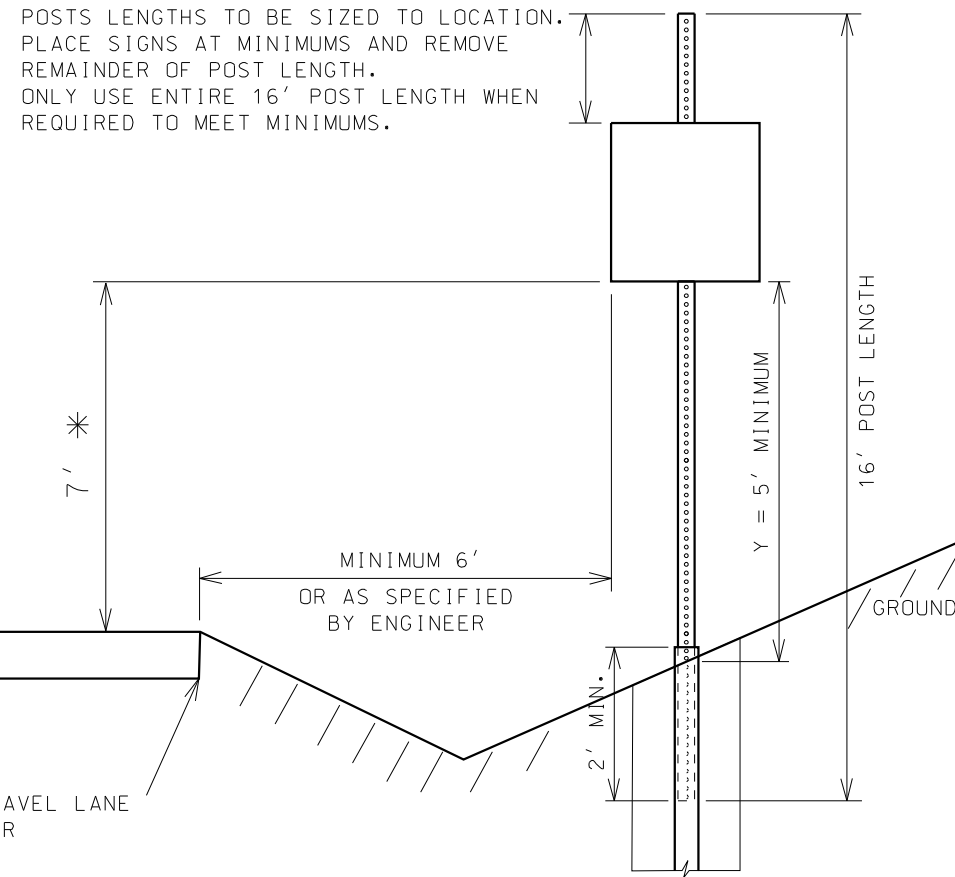
INTERSECTION OF ROUTE B (PARIS RD.)

WITH VANDIVER DR.

D-38A

SIGNAL SHEET
 LOCATION 1F - COLUMBIA
 ROUTE B
 SHEET 36 OF 36

MOUNTING HEIGHT DETAIL



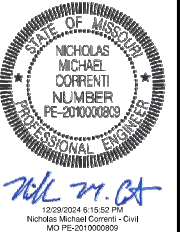
SEE STANDARD PLANS 903.03 FOR INSTALLATION DETAILS

- POSTS - 12 GAUGE - 2.5" X 2.5"
- ANCHORS - 7 GAUGE - 3" X 3" O.D.
- BREAKAWAY - CERTIFIED NCHRP 350 COMPLIANT USE REQUIRED FOR DOUBLE POST INSTALLATIONS ONLY
- GALVANIZATION - ALL PSST POSTS, ANCHORS AND BREAKAWAY CASTINGS SHALL BE GALVANIZED PER MODOT STANDARD SPECIFICATIONS

* 7' MINIMUM REQUIRED IN URBAN APPLICATIONS AND PREFERRED IN RURAL APPLICATIONS. IN RURAL APPLICATIONS ONLY - IN SITUATIONS WHERE THE 7' MINIMUM CAN NOT BE ATTAINED WITH A 16' PSST A RANGE OF 5' - 7' CAN BE USED AS LONG AS DISTANCE "Y" IS ALSO MAINTAINED.

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT, CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

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|-----------------------------|-----------------|
| DATE PREPARED 12/29/2024 | |
| ROUTE VARIOUS | STATE MO |
| DISTRICT CD | SHEET NO. 85 |
| COUNTY VARIOUS | |
| JOB NO. JCD0076 | |
| CONTRACT ID. | |

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

| DESCRIPTION | DATE |
|-------------|------|
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NOT TO SCALE

SIGNING SHEET
 2.5" PSST POST DETAILS
 SHEET 1 OF 3

