MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY
DENT COUNTY

DESIGN DESIGNATION

ROUTE 19
A.A.D.T. - 2023 = 3909
F.C. - MINOR ARTERIAL
V = 30 M.P.H.

ROUTE 32/72
A.A.D.T. - 2023 = 5906
F.C. - MINOR ARTERIAL
V = 35 M.P.H.

TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

PERMANENT SIDEWALK EASEMENTS REQUIRED

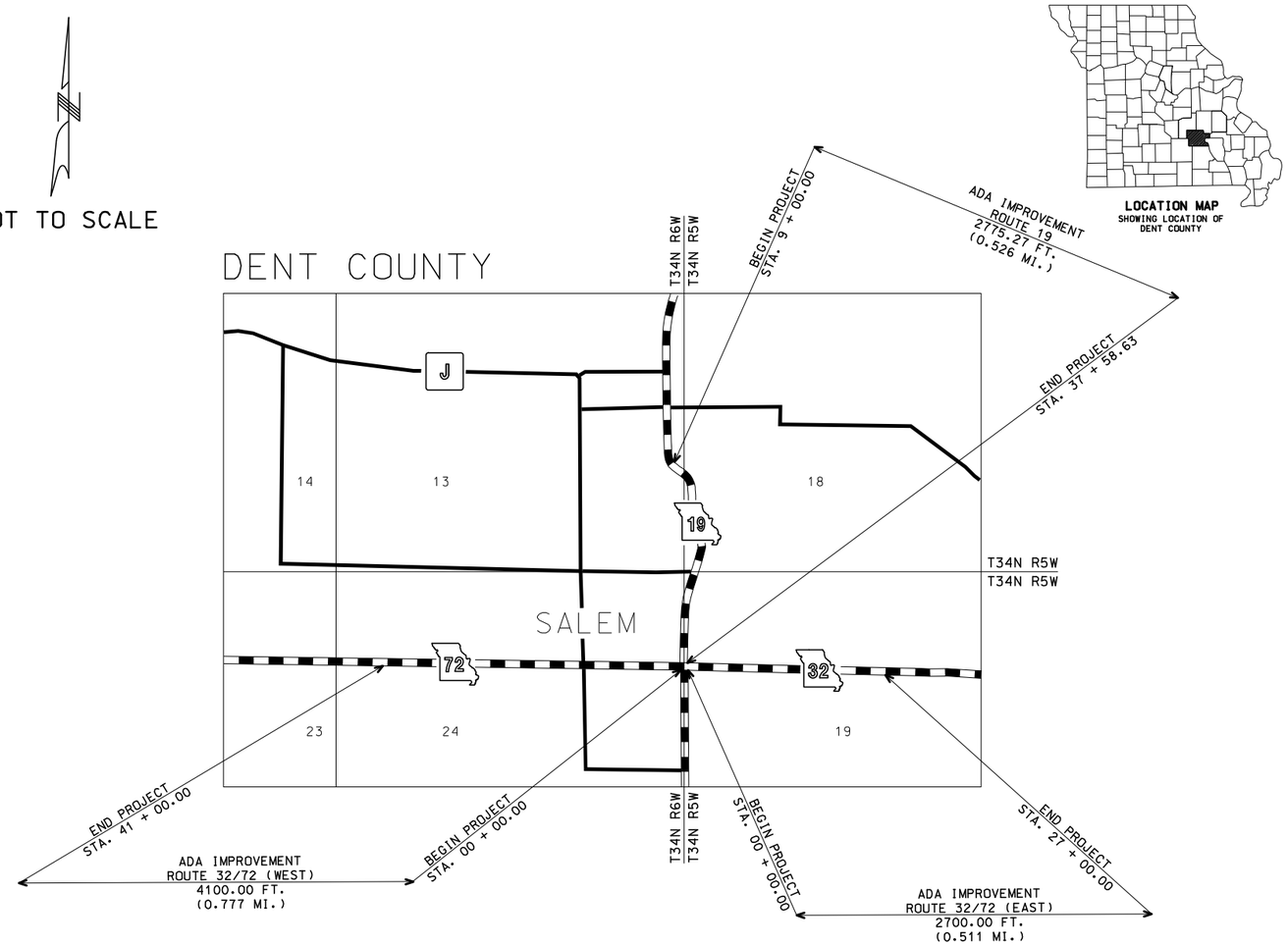
NEW NORMAL ACCESS RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

NOT TO SCALE



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (5 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
PLAN-PROFILE (PP)	4-13
REFERENCE POINT (RP)	14
COORDINATE POINTS (CP)	15
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TRAFFIC CONTROL SHEETS (TC)	22-31
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CULVERT SECTION SHEET (CS)	51

LENGTH OF PROJECT

ROUTE 19

BEGINNING OF PROJECT	STA. 9 + 00.00
END OF PROJECT	STA. 37 + 58.63
APPARENT LENGTH	2858.63 FT.
EQUATIONS AND EXCEPTIONS:	
STA. 12+18.39 BK = 13+02.70 AH	-84.31 FT.
STA. 27+66.85 BK = 27+65.90 AH	+0.95 FT.
NET LENGTH	2775.27 FT.

ROUTE 32/72 (EAST)

BEGINNING OF PROJECT	STA. 0 + 00.00
END OF PROJECT	STA. 27 + 00.00
APPARENT LENGTH	2700.00 FT.
EQUATIONS AND EXCEPTIONS:	NONE
NET LENGTH	2700.00 FT.

ROUTE 32/72 (WEST)

BEGINNING OF PROJECT	STA. 0 + 00.00
END OF PROJECT	STA. 41 + 00.00
APPARENT LENGTH	4100.00 FT.
EQUATIONS AND EXCEPTIONS:	NONE
NET LENGTH	4100.00 FT.

APPARENT LENGTH	9658.63 FT.
TOTAL CORRECTIONS	-83.36 FT.
NET LENGTH OF PROJECT	9575.27 FT.
STATE LENGTH	1.813 MI.

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 10/23/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	1

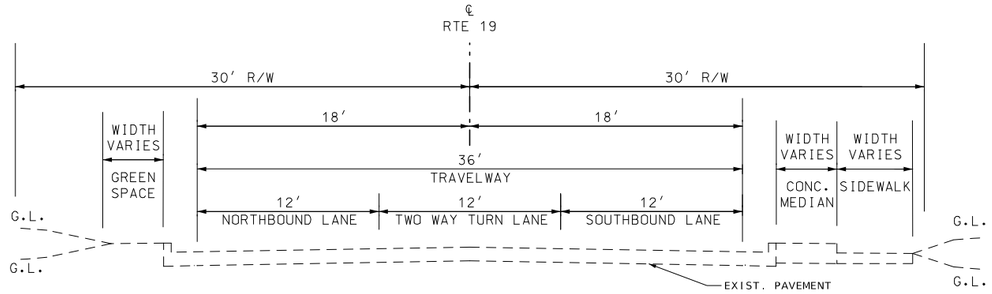
COUNTY: DENT
JOB NO.: JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

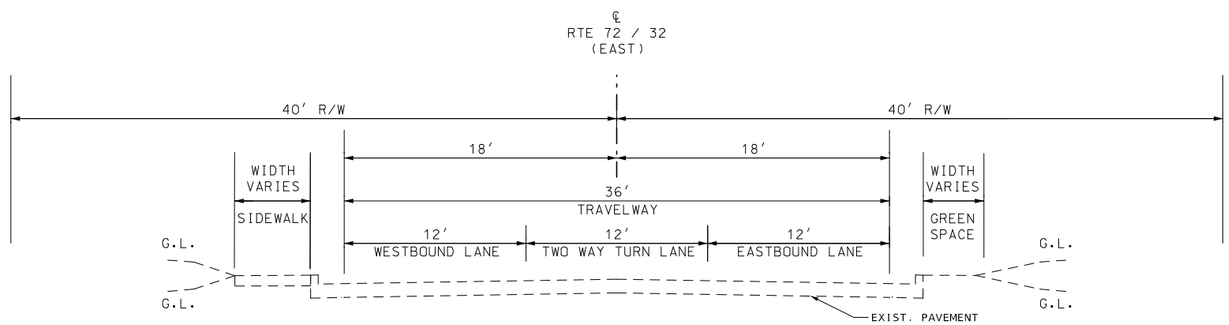
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



STA 9+00.00 TO STA 37+58.33

℄ ROUTE 19 (S MAIN ST.)



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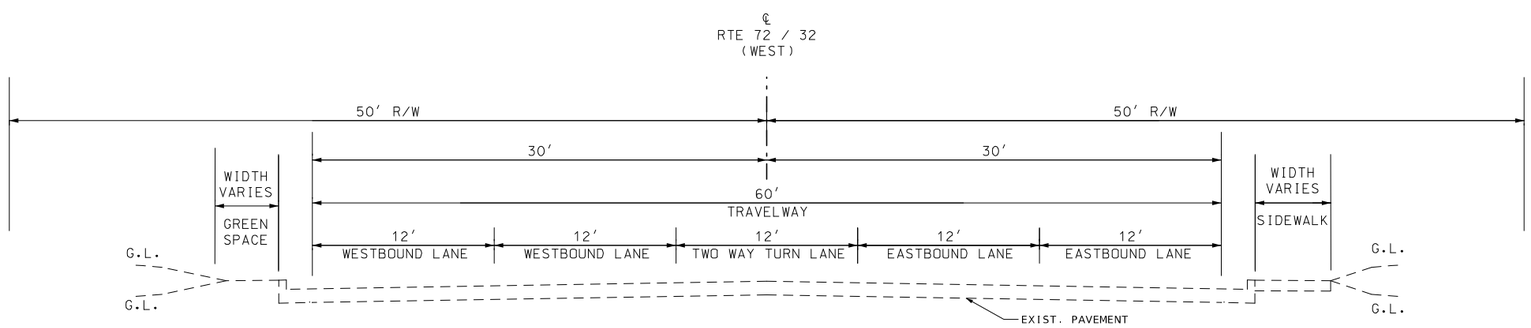
℄ ROUTE 72 / 32 (EAST)
(SCENIC RIVERS BLVD)



STA 0+00.00 TO STA 41+00.00

℄ ROUTE 72 / 32 (WEST)
(SCENIC RIVERS BLVD)

EXISTING
TYPICAL SECTION SHEET
SHEET 1 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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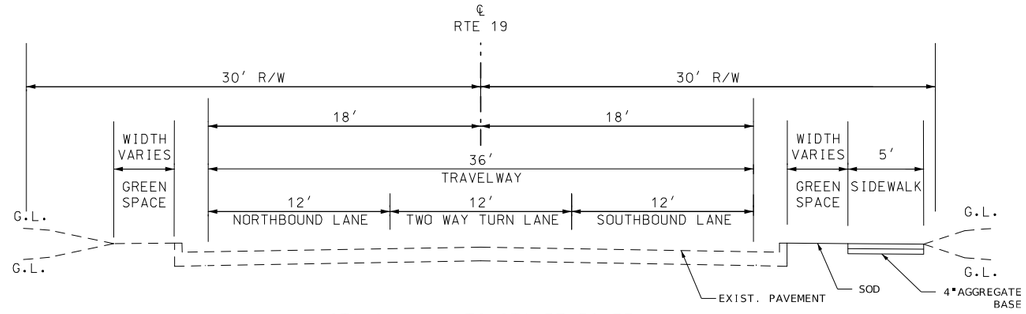
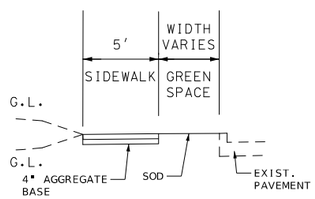


STA 9+00.00 TO STA 37+58.33

℄ ROUTE 19 (S MAIN ST.)

EXCEPTION

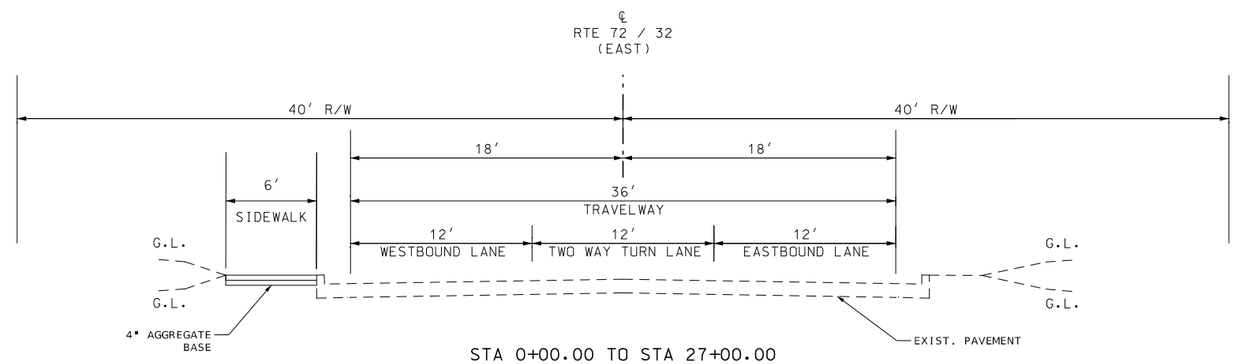


STA 0+00.00 TO STA 6+75.00

STA 20+00.00 TO STA 22+30.00

℄ ROUTE 72 / 32 (EAST)

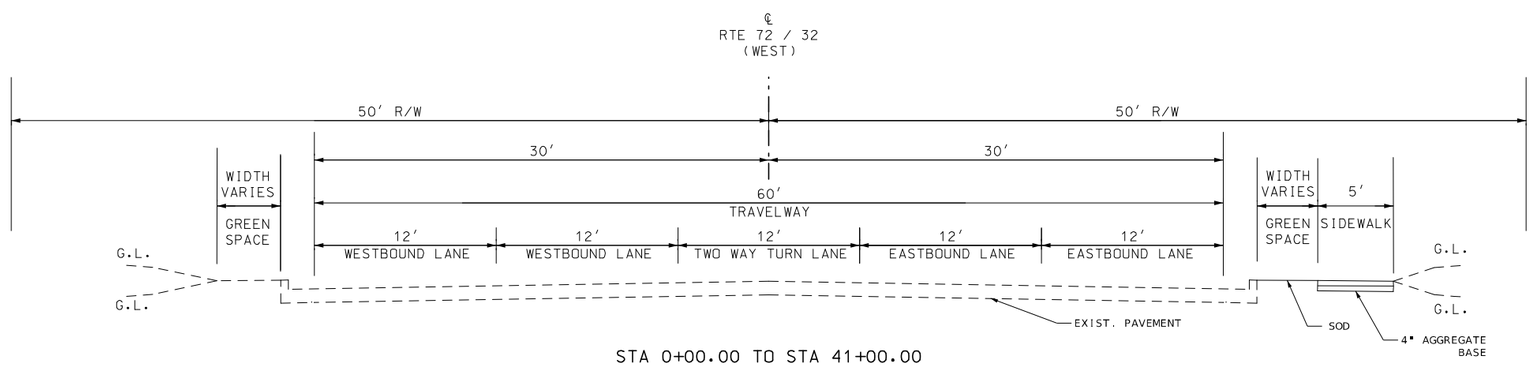
(SCENIC RIVERS BLVD)



STA 0+00.00 TO STA 27+00.00

℄ ROUTE 72 / 32 (EAST)

(SCENIC RIVERS BLVD)



STA 0+00.00 TO STA 41+00.00

℄ ROUTE 72 / 32 (WEST)

(SCENIC RIVERS BLVD)

PROPOSED

TYPICAL SECTION SHEET

SHEET 2 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
DENT	
JOB NO.	
JCD0129	
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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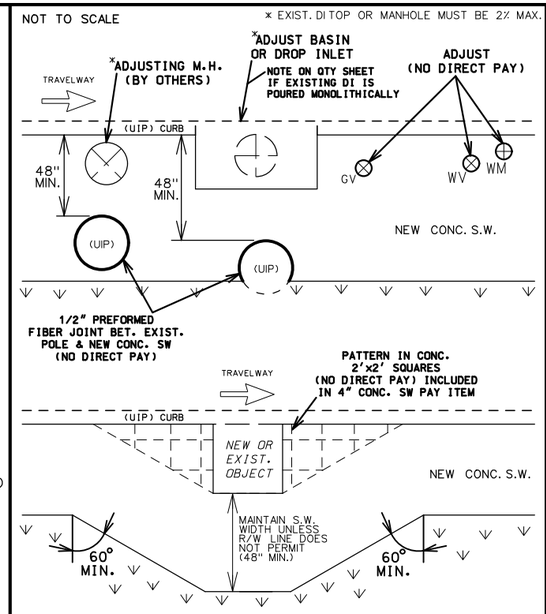
WWW.BARTLETTWEST.COM

1. 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.
2. 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)
3. CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
4. 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 7" 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.
5. 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.
6. 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% PREFFERED (2% MAX.) UNLESS TIED TO ROADWAY EXCEPTION.
7. 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.
8. "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
9. 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).
10. 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 CROSS SLOPES SHALL BE 1% PREFFERED (2% MAX.) TOWARD THE STREET. CURB RAMPS ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
11. SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMPS OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
12. S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
13. SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.

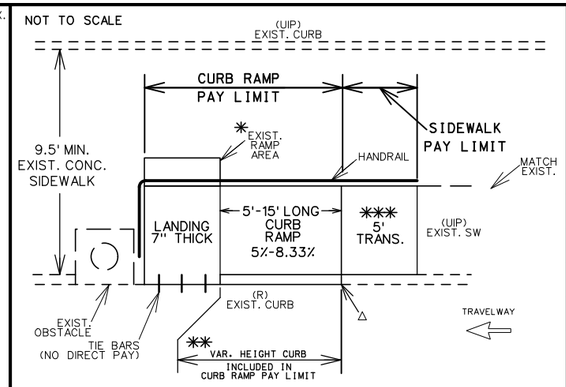
NOT TO SCALE



UTILITIES OR VARIOUS OBSTACLES

NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AREAS AND SIDEWALK WITH A MINIMUM OF 4' CLEARANCE AROUND THE POLE

NOT TO SCALE



△ MATCH EXIST CURB

✳ FILL IN WHERE EXIST. RAMP WAS. SIZE WILL VARY. (SEE TYPICAL SHEET)

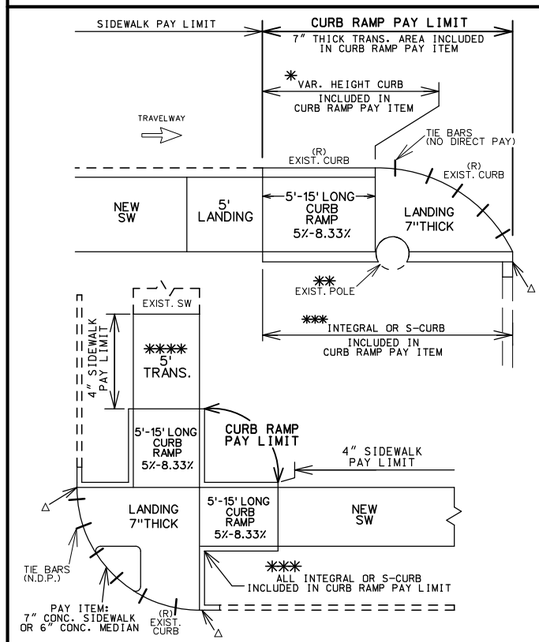
✳✳ VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

✳✳✳ TO BLEND CROSS SLOPE DISCREPENCY

HANDRAIL 2' OFF E.O.P (SEE HANDRAIL STANDARDS)

CURB RAMP - IN EXISTING 9.5'+ WIDE SW

PAY LIMITS



△ MATCH EXIST CURB HEIGHT, OPTIONAL 1' TIE-IN TO EXIST CURB

✳ VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONST. MONOLITHIC OR SEP. DEPENDING ON CONST. OPERATIONS.

✳✳ NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AND TRANSITION AREAS.

✳✳✳ TYPE OF CURB WILL DEPEND ON FIELD CONDITIONS.

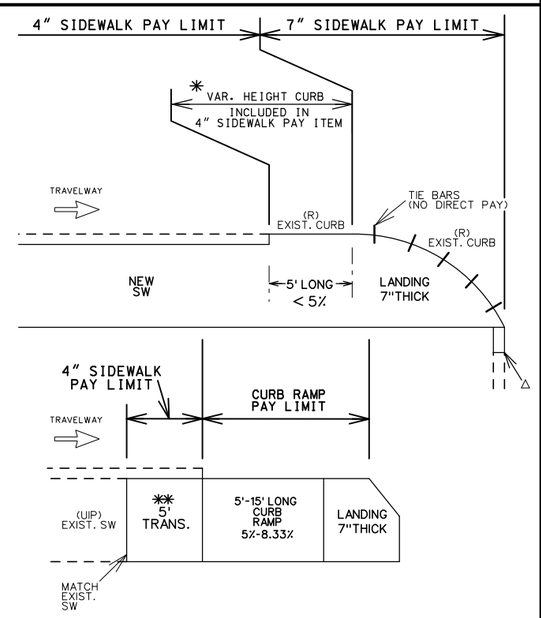
✳✳✳✳ TO BLEND CROSS SLOPE DISCREPENCY

CURB RAMP

PAY LIMITS

WHEN RAMP AREA IS LONGER THEN 5' AND BET. 5%-8.33% GRADE, IT IS CONSIDERED A CURB RAMP

NOT TO SCALE



△ MATCH EXIST CURB HEIGHT (1' TAPER FROM SIDEWALK UP TO EXIST CURB HEIGHT)

✳ VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS. DOWEL TO EXIST. GUTTER/PAVEMENT (NO DIRECT PAY).

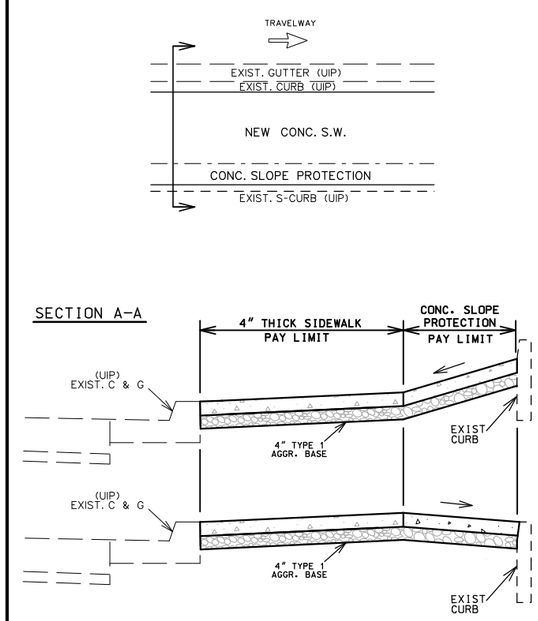
✳✳ TO BLEND CROSS SLOPE DISCREPENCY

SIDEWALK

PAY LIMITS

WHEN RAMP AREA IS 5' LONG AND LESS THEN 5% GRADE, IT IS CONSIDERED SIDEWALK

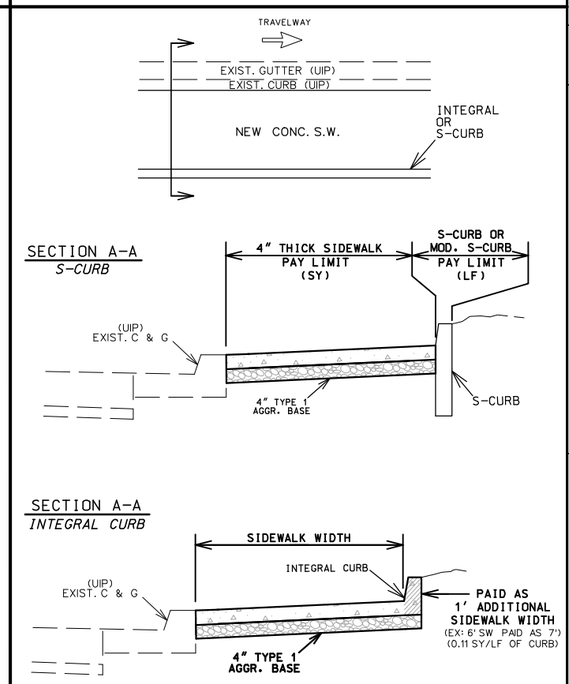
NOT TO SCALE



SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

NOT TO SCALE



SIDEWALK WITH CURB

PAY LIMITS

NOT TO SCALE

PAY ITEM LIMITS, UTILITIES & GENERAL NOTES

TYPICAL SHEET 3 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
DENT	
JOB NO.	
JCD0129	
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DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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REVISED: 03-01-2018

NOTES FOR MODIFIED SIDEWALK:

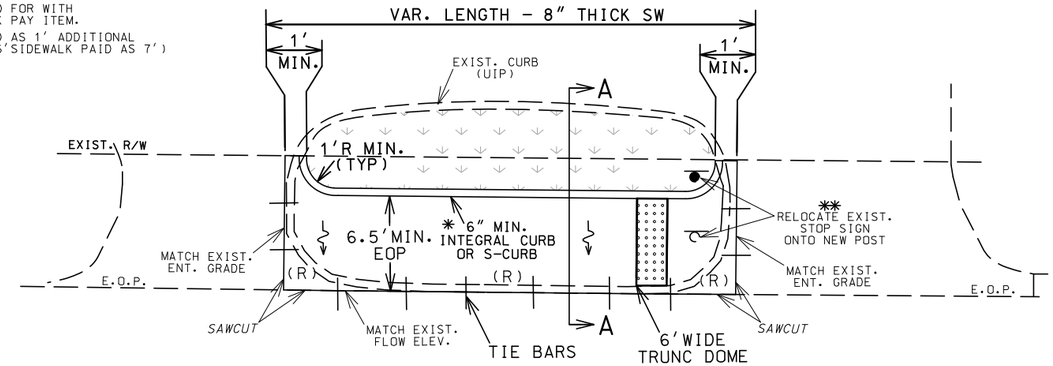
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8″ THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK 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 DOMES 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)

TYPICAL MODIFIED SIDEWALK

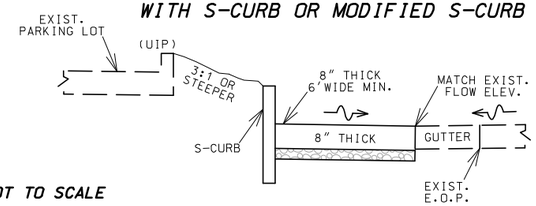
8″ THICK

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



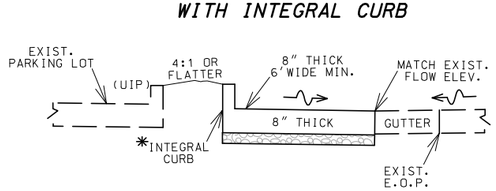
SECTION A–A

WITH S-CURB OR MODIFIED S-CURB



SECTION A–A

WITH INTEGRAL CURB



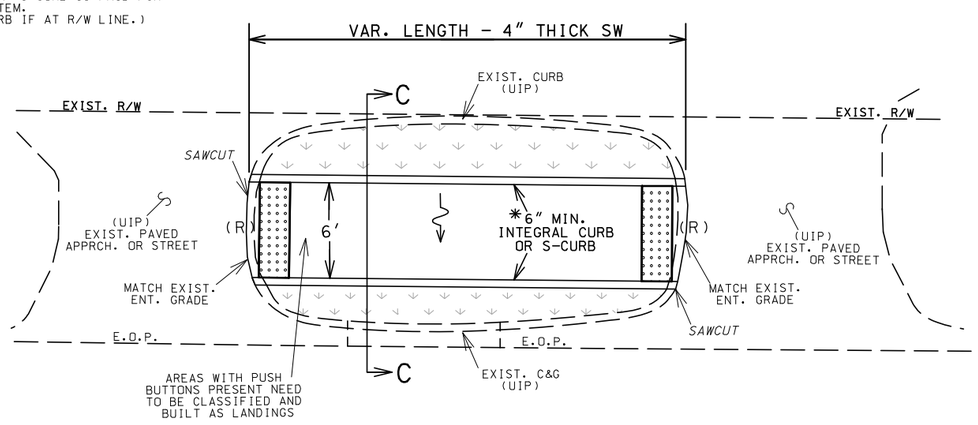
NOT TO SCALE

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 DOMES 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.

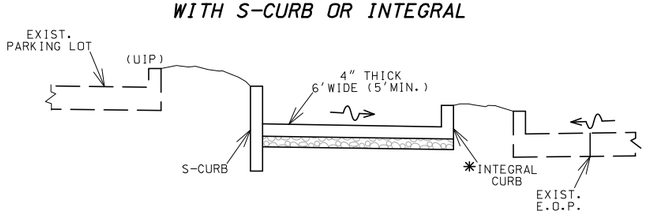
✱ INTEGRAL CURB IS PAID FOR AS 4″ CONC. SIDEWALK PAY ITEM. S-CURB IS PAID FOR AS ITS OWN PAY ITEM.
(ALWAYS USE S-CURB IF AT R/W LINE.)

TYPICAL CUT-THRU SIDEWALK



SECTION C–C

WITH S-CURB OR INTEGRAL

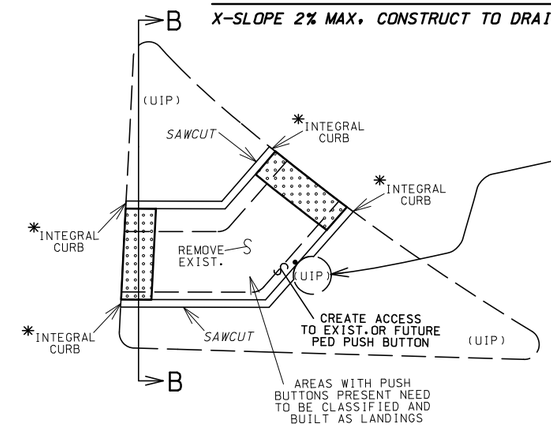


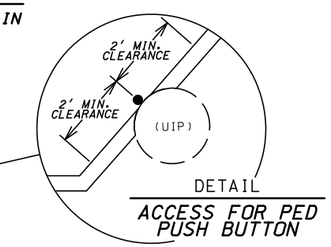
NOT TO SCALE

NOT TO SCALE

TYPICAL ISLAND CUT-THRU SIDEWALK

X-SLOPE 2% MAX. CONSTRUCT TO DRAIN



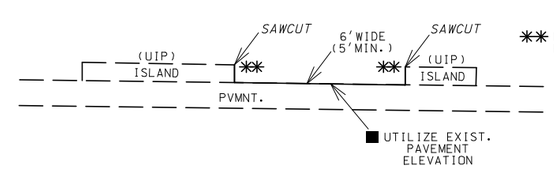


DETAIL

ACCESS FOR PED PUSH BUTTON

SECTION B–B

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



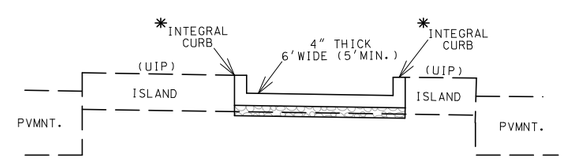
■ SMALL QTY. HAS BEEN INCLUDED FOR 8″ THICK SIDEWALK TO ADDRESS ANY UNFORSEEN PVMNT. REPAIRS OR DIFFERENCES IN ELEVATION. (UNDERRUN IF FIELD CONDITIONS DO NOT WARRANT)

✱✱ 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)

SECTION B–B

ISLAND CUT-THRU SIDEWALK



MODIFIED SIDEWALK AND SIDEWALK CUT-THRU

TYPICAL SHEET 4 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

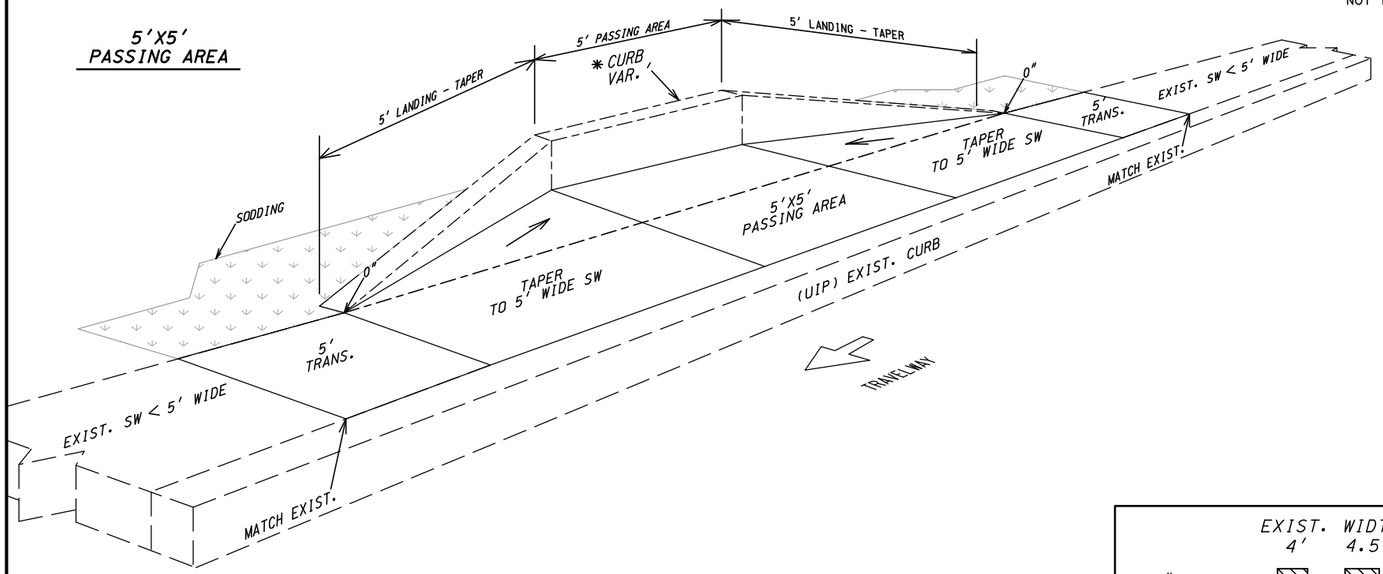
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

NOT TO SCALE

5'X5' PASSING AREA



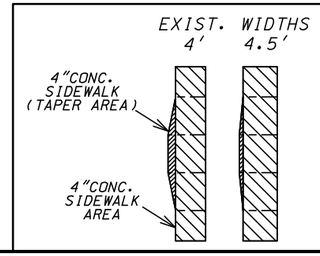
NOTES:

1. PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.

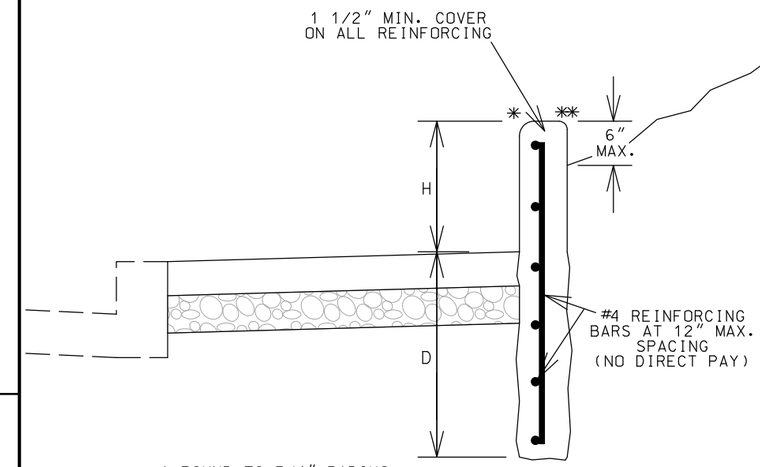
*2. CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).

3. 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)



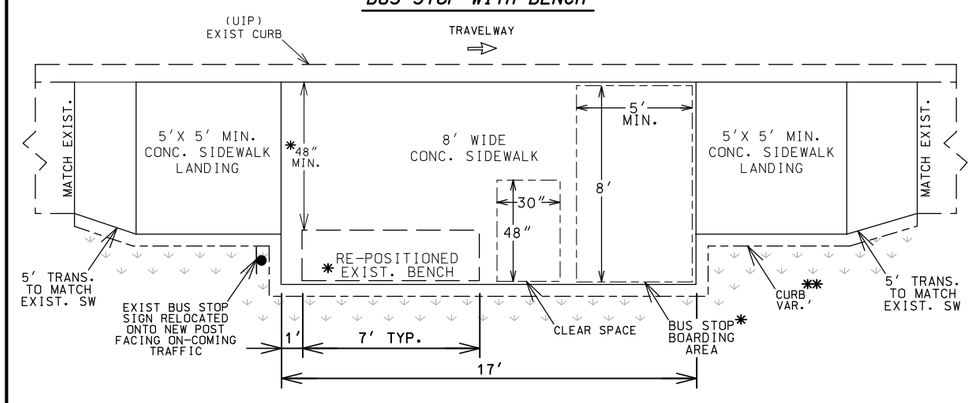
MODIFIED S-CURB
> 12" TALL (2'-6" MAX.)



* 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

NOT TO SCALE

BUS STOP WITH BENCH



NOTES:

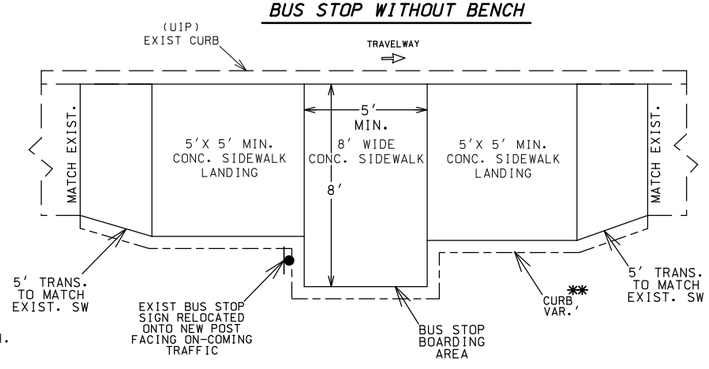
* 1. THE RE-POSITIONED BENCH SHALL NOT BE PLACED ON THE 5'X8' BUS STOP BOARDING AREA. PLACE THE BACK OF THE BENCH AT THE BACK EDGE OF THE CONC. PAD TO PROVIDE MAX.CLEARANCE.

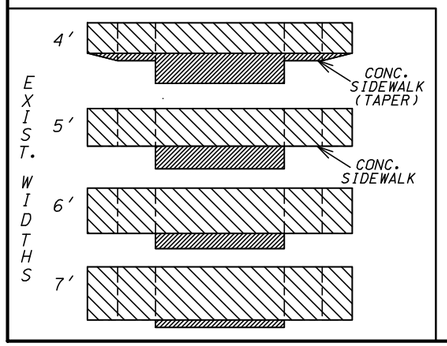
** 2. CURB USAGE DEPENDS ON FIELD CONDITIONS. IF CURB IS NEEDED DUE TO CUT, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).

3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.

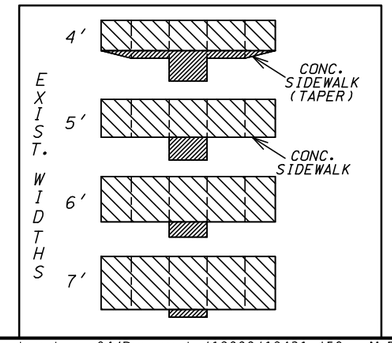
*** 4. INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. INTEGRAL CURB PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6'SW PAID AS 7') (0.11 SY/LF OF CURB)

BUS STOP WITHOUT BENCH





NOT TO SCALE



PASSING AREAS, BUS STOPS, AND MODIFIED S-CURB

TYPICAL SHEET 5 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REMOVAL OF IMPROVEMENTS (TABLE 1 OF 2)

RTE.	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
ROUTE 19							
19	10+58.81	11+02.70	RT	REMOVE PAVED APPROACH	25	SY	
19	11+71.00	11+85.83	RT	REMOVE SIDEWALK	7	SY	
19	14+49.44	15+31.17	RT	REMOVE CONCRETE MEDIAN	21	SY	
19	14+49.44	15+30.80	RT	REMOVE SIDEWALK	48	SY	
19	15+25.79	15+72.38	RT	REMOVE PAVED APPROACH	58	SY	
19	15+65.55	16+86.69	RT	REMOVE CONCRETE MEDIAN	26	SY	
19	15+65.55	16+86.69	RT	REMOVE SIDEWALK	74	SY	
19	17+29.40	17+60.46	RT	REMOVE CONCRETE MEDIAN	7	SY	
19	17+29.40	17+60.46	RT	REMOVE SIDEWALK	19	SY	
19	17+88.49	19+24.88	RT	REMOVE CONCRETE MEDIAN	29	SY	
19	17+88.49	19+24.88	RT	REMOVE SIDEWALK	76	SY	
19	19+20.38	19+83.00	RT	REMOVE PAVED APPROACH	61	SY	
19	19+78.22	20+89.24	RT	REMOVE CONCRETE MEDIAN	20	SY	
19	19+78.22	20+89.24	RT	REMOVE SIDEWALK	60	SY	
19	20+84.72	21+51.78	RT	REMOVE PAVED APPROACH	62	SY	
19	21+47.50	21+87.90	RT	REMOVE CONCRETE MEDIAN	8	SY	
19	21+47.50	21+87.90	RT	REMOVE SIDEWALK	22	SY	
19	21+83.47	22+55.78	RT	REMOVE PAVED APPROACH	67	SY	
19	22+51.07	23+00.03	RT	REMOVE CONCRETE MEDIAN	9	SY	
19	22+51.07	23+00.03	RT	REMOVE SIDEWALK	27	SY	
19	22+95.28	23+65.43	RT	REMOVE PAVED APPROACH	70	SY	
19	23+60.99	24+26.88	RT	REMOVE CONCRETE MEDIAN	17	SY	
19	23+60.99	24+26.88	RT	REMOVE SIDEWALK	39	SY	
19	24+20.99	24+86.97	RT	REMOVE PAVED APPROACH	71	SY	
19	24+81.03	25+06.27	RT	REMOVE CONCRETE MEDIAN	5	SY	
19	24+81.03	25+06.27	RT	REMOVE SIDEWALK	16	SY	
19	25+01.15	25+51.66	RT	REMOVE PAVED APPROACH	59	SY	
19	25+46.79	26+30.96	RT	REMOVE CONCRETE MEDIAN	20	SY	
19	25+46.79	26+30.96	RT	REMOVE SIDEWALK	48	SY	
19	26+25.91	26+96.92	RT	REMOVE PAVED APPROACH	100	SY	
19	26+91.87	27+02.10	RT	REMOVE SIDEWALK	6	SY	
19	26+91.87	27+02.10	RT	REMOVE CONCRETE MEDIAN	1	SY	
19	26+96.92	27+31.68	RT	REMOVE PAVED APPROACH	32	SY	
19	27+26.79	27+66.64	RT	REMOVE CONCRETE MEDIAN	9	SY	
19	27+26.79	27+66.64	RT	REMOVE SIDEWALK	23	SY	
19	27+61.64	28+29.54	RT	REMOVE PAVED APPROACH	111	SY	
19	28+25.26	28+72.57	RT	REMOVE CONCRETE MEDIAN	11	SY	
19	28+24.62	28+65.37	RT	REMOVE SIDEWALK	29	SY	
19	28+68.25	29+29.38	RT	REMOVE PAVED APPROACH	68	SY	
19	29+24.48	29+64.17	RT	REMOVE CONCRETE MEDIAN	9	SY	
19	29+24.48	29+64.17	RT	REMOVE SIDEWALK	24	SY	
19	29+59.35	30+27.92	RT	REMOVE PAVED APPROACH	137	SY	
19	30+22.64	30+50.17	RT	REMOVE CONCRETE MEDIAN	5	SY	
19	30+22.64	30+50.17	RT	REMOVE SIDEWALK	17	SY	
19	30+45.33	30+85.32	RT	REMOVE PAVED APPROACH	73	SY	
19	30+80.55	31+34.41	RT	REMOVE CONCRETE MEDIAN	12	SY	
19	30+80.55	31+34.41	RT	REMOVE SIDEWALK	32	SY	
19	31+29.50	31+84.48	RT	REMOVE PAVED APPROACH	106	SY	
19	31+80.14	32+33.96	RT	REMOVE CONCRETE MEDIAN	12	SY	
19	31+80.14	32+33.96	RT	REMOVE SIDEWALK	31	SY	
19	32+64.61	33+11.76	RT	REMOVE CONCRETE MEDIAN	11	SY	
19	32+64.61	33+11.76	RT	REMOVE SIDEWALK	27	SY	
19	33+42.42	33+54.84	RT	REMOVE CONCRETE MEDIAN	2	SY	
19	33+42.42	33+54.84	RT	REMOVE SIDEWALK	7	SY	
19	33+85.30	34+45.29	RT	REMOVE CONCRETE MEDIAN	13	SY	
19	33+85.30	34+45.29	RT	REMOVE SIDEWALK	33	SY	
19	34+79.16	34+91.67	RT	REMOVE CONCRETE MEDIAN	8	SY	
19	34+78.64	34+92.13	RT	REMOVE SIDEWALK	7	SY	
19	35+23.91	35+32.20	RT	REMOVE PAVED APPROACH	4	SY	
ROUTE 32/72 WEST							
32/72	0+39.36	1+99.54	RT	REMOVE SIDEWALK	123	SY	
32/72	2+40.98	3+30.13	RT	REMOVE CONCRETE MEDIAN	21	SY	
32/72	2+39.10	6+64.84	RT	REMOVE SIDEWALK	227	SY	
32/72	3+90.03	6+62.10	RT	REMOVE CONCRETE MEDIAN	70	SY	
32/72	6+44.73	7+26.33	RT	REMOVE PAVED APPROACH	103	SY	
32/72	7+08.31	9+92.65	RT	REMOVE SIDEWALK	161	SY	
32/72	7+09.74	9+88.13	RT	REMOVE CONCRETE MEDIAN	72	SY	
32/72	10+32.35	13+08.24	RT	REMOVE SIDEWALK	169	SY	
32/72	10+55.44	13+92.63	RT	REMOVE CONCRETE MEDIAN	83	SY	
32/72	13+94.77	14+69.62	RT	REMOVE SIDEWALK	46	SY	
32/72	13+99.10	14+65.46	RT	REMOVE CONCRETE MEDIAN	15	SY	
32/72	15+11.87	15+33.53	RT	REMOVE PAVED APPROACH	2	SY	
32/72	15+11.94	17+02.57	RT	REMOVE SIDEWALK	108	SY	
32/72	15+18.41	17+01.16	RT	REMOVE CONCRETE MEDIAN	42	SY	
32/72	17+46.70	17+89.30	RT	REMOVE SIDEWALK	27	SY	
32/72	17+46.94	17+84.92	RT	REMOVE CONCRETE MEDIAN	12	SY	
				SUB TOTAL 1	3312	SY	

REMOVAL OF IMPROVEMENTS (TABLE 2 OF 2)

RTE.	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
ROUTE 32/72 WEST							
32/72	17+65.96	17+89.45	RT	REMOVE CONCRETE MEDIAN	4	SY	
32/72	18+51.00	19+22.91	RT	REMOVE SIDEWALK	41	SY	
32/72	18+55.11	19+19.83	RT	REMOVE CONCRETE MEDIAN	15	SY	
32/72	19+83.52	19+92.86	RT	REMOVE SIDEWALK	30	SY	
32/72	19+87.36	20+33.42	RT	REMOVE CONCRETE MEDIAN	9	SY	
32/72	20+12.54	24+61.91	RT	REMOVE SIDEWALK	199	SY	
32/72	20+72.16	22+55.85	RT	REMOVE CONCRETE MEDIAN	39	SY	
32/72	22+48.38	23+19.37	RT	REMOVE PAVED APPROACH	69	SY	
32/72	23+10.62	24+58.64	RT	REMOVE CONCRETE MEDIAN	31	SY	
32/72	24+98.39	26+02.70	RT	REMOVE SIDEWALK	57	SY	
32/72	25+02.01	25+98.44	RT	REMOVE CONCRETE MEDIAN	20	SY	
32/72	26+38.89	26+94.21	RT	REMOVE SIDEWALK	29	SY	
32/72	26+42.81	26+85.18	RT	REMOVE CONCRETE MEDIAN	12	SY	
32/72	27+31.80	30+01.68	RT	REMOVE SIDEWALK	129	SY	
32/72	27+35.23	28+35.47	RT	REMOVE CONCRETE MEDIAN	27	SY	
32/72	28+29.00	28+90.37	RT	REMOVE PAVED APPROACH	97	SY	
32/72	28+84.96	29+98.32	RT	REMOVE CONCRETE MEDIAN	39	SY	
32/72	30+37.11	33+36.40	RT	REMOVE SIDEWALK	176	SY	
32/72	30+38.83	33+32.16	RT	REMOVE CONCRETE MEDIAN	84	SY	
32/72	33+77.99	34+76.49	RT	REMOVE SIDEWALK	56	SY	
32/72	33+81.35	34+73.24	RT	REMOVE CONCRETE MEDIAN	24	SY	
32/72	35+07.63	35+75.59	RT	REMOVE SIDEWALK	38	SY	
32/72	35+10.76	35+71.93	RT	REMOVE CONCRETE MEDIAN	12	SY	
32/72	36+16.24	40+04.64	RT	REMOVE SIDEWALK	200	SY	
32/72	36+19.46	36+65.21	RT	REMOVE CONCRETE MEDIAN	15	SY	
32/72	36+47.64	37+30.13	RT	REMOVE PAVED APPROACH	107	SY	
32/72	37+08.39	39+88.03	RT	REMOVE CONCRETE MEDIAN	64	SY	
ROUTE 32/72 EAST							
32/72	0+25.06	0+57.81	LT	REMOVE CONCRETE MEDIAN	42	SY	
32/72	0+53.12	3+20.20	LT	REMOVE SIDEWALK	146	SY	
32/72	3+10.88	3+54.70	LT	REMOVE PAVED APPROACH	70	SY	
32/72	3+46.68	5+30.32	LT	REMOVE SIDEWALK	128	SY	
32/72	5+26.36	5+53.49	LT	REMOVE PAVED APPROACH	29	SY	
32/72	6+86.17	7+88.23	LT	REMOVE SIDEWALK	52	SY	
32/72	7+04.18	7+45.88	LT	REMOVE PAVED APPROACH	51	SY	
32/72	7+80.35	8+22.59	LT	REMOVE PAVED APPROACH	52	SY	
32/72	8+14.12	8+76.14	LT	REMOVE SIDEWALK	47	SY	
32/72	8+71.30	9+18.01	LT	REMOVE PAVED APPROACH	13	SY	
32/72	9+08.09	9+88.24	LT	REMOVE SIDEWALK	70	SY	
32/72	9+79.86	10+27.59	LT	REMOVE PAVED APPROACH	140	SY	
32/73	10+17.06	10+34.68	LT	REMOVE SIDEWALK	24	SY	
32/72	10+27.68	10+67.26	LT	REMOVE PAVED APPROACH	41	SY	
32/72	10+60.80	10+92.26	LT	REMOVE SIDEWALK	26	SY	
32/72	10+84.39	11+26.69	LT	REMOVE PAVED APPROACH	50	SY	
32/72	11+19.75	12+03.56	LT	REMOVE SIDEWALK	56	SY	
32/72	11+90.19	12+74.48	LT	REMOVE PAVED APPROACH	18	SY	
32/72	12+61.33	13+42.73	LT	REMOVE SIDEWALK	62	SY	
32/72	13+81.59	15+38.88	LT	REMOVE SIDEWALK AND RAILING	91	SY	
32/72	14+55.24	15+00.82	LT	REMOVE PAVED APPROACH	55	SY	
32/72	15+23.43	15+98.66	LT	REMOVE PAVED APPROACH	22	SY	
32/72	15+83.29	16+57.88	LT	REMOVE SIDEWALK	49	SY	
32/72	16+44.28	17+01.88	LT	REMOVE PAVED APPROACH	21	SY	
32/72	16+87.34	19+81.26	LT	REMOVE SIDEWALK	61	SY	
32/72	17+70.77	18+05.31	LT	REMOVE PAVED APPROACH	48	SY	
32/72	17+97.5	18+18.95	LT	REMOVE SIDEWALK	13	SY	
32/72	18+10.30	20+35.72	LT	REMOVE PAVED APPROACH	364	SY	
32/72	19+74.37	19+93.25	RT	REMOVE PAVED APPROACH	7	SY	
32/72	19+78.78	19+95.47	RT	REMOVE SIDEWALK	27	SY	
32/72	20+17.27	21+75.98	LT	REMOVE SIDEWALK	94	SY	
32/72	21+66.37	22+23.13	LT	REMOVE PAVED APPROACH	68	SY	
32/72	22+12.13	24+80.40	LT	REMOVE SIDEWALK	58	SY	
32/72	24+72.54	25+11.71	LT	REMOVE PAVED APPROACH	28	SY	
32/72	25+02.45	25+21.74	LT	REMOVE SIDEWALK	35	SY	
32/72	25+11.71	25+54.23	LT	REMOVE PAVED APPROACH	27	SY	
32/72	25+44.26	26+45.02	LT	REMOVE SIDEWALK	55	SY	
32/72	24+72.54	25+10.83	LT	REMOVE PAVED APPROACH	38	SY	
32/72	25+02.93	25+20.50	LT	REMOVE SIDEWALK	11	SY	
32/72	25+11.84	25+54.24	LT	REMOVE PAVED APPROACH	49	SY	
32/72	24+46.49	26+45.38	LT	REMOVE SIDEWALK	77	SY	
				SUB TOTAL 2	4038	SY	
				SUB TOTAL 1	3312	SY	
				TOTAL	7350	SY	
				PAY TOTAL	1 LUMP SUM		

SUMMARY OF QUANTITIES

SHEET 1 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 11/14/2025

ROUTE: VAR. | STATE: MO

DISTRICT: CD | SHEET NO.: 3

COUNTY: DENT

JOB NO.: JCD0129

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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WWW.BARTLETTWEST.COM

SIDEWALK (TABLE 1 OF 2)

ROUTE	STA.	STA.	LOCATION	CONCRETE SIDEWALK 4 IN.	TYPE 1 AGG FOR BASE 4 IN.	REMARKS
				SY	SY	
19	11+71.00	11+76.71	RT	2.8	2.8	
19	11+80.13	11+85.83	RT	2.8	2.8	
19	14+54.49	15+22.52	RT	37.8	37.8	
19	15+75.56	16+81.15	RT	61.4	61.4	
19	17+34.69	17+56.12	RT	11.3	11.3	
19	17+93.80	19+12.55	RT	69.2	69.2	
19	19+83.01	20+78.95	RT	53.1	53.1	
19	21+52.56	21+82.74	RT	15.7	15.7	
19	22+56.61	22+94.90	RT	20.4	20.4	
19	23+65.43	24+15.99	RT	27.7	27.7	
19	24+91.93	25+00.12	RT	5.1	5.1	
19	25+51.72	26+25.90	RT	41.2	41.2	
19	27+31.68	27+61.64	RT	16.6	16.6	
19	28+29.60	28+67.67	RT	22.0	22.0	
19	29+29.43	29+59.24	RT	17.0	17.0	
19	30+27.88	30+40.22	RT	7.1	7.1	
19	30+90.56	31+29.33	RT	21.7	21.7	
19	31+84.48	32+28.44	RT	24.2	24.2	
19	32+69.75	33+06.78	RT	20.5	20.5	
19	33+42.42	33+54.84	RT	7.0	7.0	
19	33+90.30	34+38.97	RT	27.0	27.0	
19	34+78.65	34+92.13	RT	7.4	7.4	
19	35+36.05	35+94.87	RT	33.8	33.8	
19	35+97.91	36+90.82	RT	52.2	52.2	
ROUTE 32/72 WEST						
32/72	0+29.21	0+35.08	RT	3.1	3.1	
32/72	0+65.92	1+85.56	RT	70.0	70.0	
32/72	2+45.96	3+20.60	RT	39.7	39.7	
32/72	3+71.03	3+75.56	RT	3.8	3.8	
32/72	3+92.54	6+53.66	RT	144.0	144.0	
32/72	7+19.14	9+73.73	RT	142.0	142.0	
32/72	10+31.41	10+38.67	RT	6.3	6.3	
32/72	10+57.37	13+03.73	RT	136.8	136.8	
32/72	14+08.16	14+60.97	RT	31.0	31.0	
32/72	15+23.17	16+90.44	RT	94.2	94.2	
32/72	17+56.42	17+80.92	RT	14.2	14.2	
32/72	18+60.35	19+14.01	RT	31.1	31.1	
32/72	19+94.40	20+27.14	RT	21.0	21.0	
32/72	20+77.91	22+48.07	RT	95.5	95.5	
32/72	23+17.19	24+52.03	RT	75.5	75.5	
32/72	25+07.96	25+93.93	RT	48.5	48.5	
32/72	26+47.04	26+76.23	RT	16.8	16.8	
32/72	27+43.76	28+30.47	RT	48.8	48.8	
32/72	28+89.96	29+87.31	RT	54.8	54.8	
32/72	30+38.31	30+44.69	RT	3.3	3.3	
32/72	30+56.07	33+23.62	RT	150.2	150.2	
32/72	33+90.17	34+68.65	RT	43.9	43.9	
32/72	35+14.76	35+68.14	RT	28.6	28.6	
32/72	36+24.46	36+56.07	RT	18.5	18.5	
32/72	37+17.31	39+97.89	RT	158.1	158.1	
32/72	39+97.89	40+02.60	RT	4.5	4.5	
ROUTE 32/72 EAST						
32/72	0+30.96	0+42.73	LT	5.7	5.7	
32/72	0+66.04	1+55.60	LT	54.6	54.6	
32/72	1+58.64	1+82.16	LT	13.1	13.1	
32/72	2+44.96	2+49.94	LT	2.3	2.3	
32/72	2+49.80	2+96.88	LT	30.8	30.8	
32/72	3+64.71	5+18.34	LT	102.4	102.4	
32/72	5+61.50	6+35.93	LT	49.6	49.6	
32/72	7+51.08	7+75.13	LT	16.0	16.0	
32/72	8+27.72	8+71.30	LT	29.1	29.1	
32/72	9+18.01	9+70.86	LT	35.2	35.2	
32/72	10+72.75	10+79.64	LT	4.6	4.6	
32/72	11+30.92	11+90.19	LT	39.5	39.5	
32/72	11+55.78	11+59.19	LT	1.9	1.9	
32/72	12+74.47	13+25.77	LT	34.2	34.2	
32/72	14+05.89	14+50.24	LT	29.6	29.6	
32/72	15+03.67	15+23.43	LT	13.2	13.2	
32/72	15+98.66	16+44.94	LT	30.9	30.9	
32/72	17+01.88	17+65.77	LT	42.6	42.6	
			SUBTOTAL 1	2624.5	2624.5	

SIDEWALK (TABLE 2 OF 2)

ROUTE	STA.	STA.	LOCATION	CONCRETE SIDEWALK 4 IN.	TYPE 1 AGG FOR BASE 4 IN.	REMARKS
				SY	SY	
ROUTE 32/72 EAST						
32/72	18+56.52	19+60.51	LT	69.3	69.3	
32/72	19+75.20	19+81.20	LT	2.8	2.8	
32/72	19+85.36	19+90.96	RT	2.0	2.0	
32/72	20+39.57	21+66.43	LT	70.5	70.5	
32/72	22+73.60	22+90.19	LT	14.7	14.7	
32/72	23+34.73	23+64.02	LT	19.6	19.6	
32/72	24+08.56	24.67.54	LT	39.4	39.4	
32/72	25+59.23	26+32.99	LT	49.1	49.1	
32/72	26+37.99	26+45.48	LT	6.8	6.8	
32/72	26+40.48	26+45.47	LT	2.5	2.5	
			SUB TOTAL 2	276.7	276.7	
			SUB TOTAL 1	2624.5	2624.5	
			TOTALS	2901.2	2901.2	
			USE	2901.2	2901	

TYPE S CURB

ROUTE	STA.	STA.	LOCATION	MODIFIED TYPE S CURB	REMARKS
				LF	
ROUTE 32/72 WEST					
32/72	1+97.23	2+00.04	RT	14.5	
32/72	2+38.45	2+39.33	RT	3.6	
32/72	3+81.49	6+58.66	RT	278.3	
32/72	7+20.52	8+17.59	RT	104.5	
32/72	10+54.98	10+65.14	RT	13.7	
32/72	14+69.62	14+70.10	RT	3.4	
32/72	17+89.41	17+89.91	RT	6.4	
32/72	18+50.45	18+50.81	RT	5.0	
32/72	19+23.19	19+23.39	RT	5.6	
32/72	19+82.93	19+83.58	RT	4.3	
32/72	20+37.33	20+38.05	RT	6.3	
32/72	20+67.59	20+68.02	RT	6.1	
32/72	22+15.00	22+64.74	RT	49.7	
32/72	30+56.08	32+15.28	RT	161.2	
32/72	37+17.78	39+29.45	RT	218.9	
32/72	39+87.96	40+03.03	RT	20.8	
ROUTE 32/72 EAST					
32/72	0+52.71	1+34.34	LT	87.5	
32/72	4+82.14	5+12.14	LT	30.0	
32/72	10+19.11	10+20.25	LT	21.5	
32/72	18+71.17	19+75.20	LT	104.0	
32/72	19+00.69	19+51.01	LT	50.3	
			TOTAL	1195.6	
			USE	1196	

SIGN REMOVALS

ROUTE	SIGN NO.	STA.	LOCATION	EA	REMARKS
ROUTE 19					
19	1	36+34.11	RT	1	
19	2	37+03.94	RT	1	
ROUTE 32 / 72 WEST					
32/72	3	0+47+56	LT	1	
32/72	4	0+82.19	LT	1	
32/72	5	3+17.39	LT	1	
32/72	6	6+50.07	LT	1	
32/72	7	13+39.94	LT	1	
ROUTE 32 / 72 EAST					
32/72	8	1+36.63	RT	1	
32/72	9	3+81.35	RT	1	
32/72	10	10+40.64	RT	1	
32/72	11	27+30.67	RT	1	
			TOTAL	11	

SUMMARY OF QUANTITIES
SHEET 2 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/14/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY DENT
JOB NO. JCD0129
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

CURB RAMP (TABLE 1 OF 3)

ROUTE	STA.	STA.	LOCATION	CONCRETE CURB RAMP	TRUNCATED DOMES	TYPE 1 AGG FOR BASE 4 IN.	CONCRETE SIDEWALK 8 IN.	REMARKS
				SY	SF	SY		
ROUTE 19								
19	14+49.44	14+54.44	RT	3.3		3.3		
19	15+22.50	15+35.40	RT	7.2	10.0	7.2		
19	15+63.20	15+75.58	RT	7.3	10.0	7.3		
19	16+81.81	16+90.83	RT	5.2		5.2		
19	17+26.80	17+34.76	RT	4.7		4.7		
19	17+56.09	17+61.09	RT	3.7		3.7		
19	17+88.04	17+93.84	RT	3.6		3.6		
19	19+19.45	19+25.27	RT	3.6		3.6		
19	19+77.75	19+83.01	RT	3.5		3.5		
19	20+79.00	20+89.53	RT	3.6		3.6		
19	21+47.18	21+52.44	RT	3.5		3.5		
19	21+82.83	21+88.37	RT	3.5		3.5		
19	22+50.03	22+56.51	RT	3.7		3.7		
19	22+95.05	23+00.97	RT	3.7		3.7		
19	23+60.68	23+65.42	RT	3.5		3.5		
19	24+15.99	24+28.97	RT	7.4	10.0	7.4		
19	24+78.92	24+91.92	RT	7.7	10.0	7.7		
19	25+00.08	25+06.78	RT	3.6		3.6		
19	25+46.09	25+51.77	RT	3.6		3.6		
19	26+25.89	26+31.26	RT	3.5		3.5		
19	26+91.86	27+01.96	RT	6.7		6.7		
19	27+26.57	27+31.68	RT	3.4		3.4		
19	27+61.64	27+66.02	RT	3.5		3.5		
19	28+24.07	28+29.67	RT	3.6		3.6		
19	28+67.54	28+73.37	RT	3.5		3.5		
19	29+24.21	29+49	RT	3.5		3.5		
19	29+59.14	29+64.62	RT	3.6		3.6		
19	30+22.32	30+27.85	RT	3.7		3.7		
19	30+40.22	30+51.21	RT	6.6	10.0	6.6		
19	30+80.02	30+90.57	RT	6.5	10.0	6.5		
19	31+28.32	31+34.63	RT	3.5		3.5		
19	31+79.48	31+86.00	RT	3.6		3.6		
19	32+28.47	32+33.75	RT	3.5		3.5		
19	32+62.94	32+69.76	RT	4.0		4.0		
19	33+06.79	33+12.02	RT	3.4		3.4		
19	33+85.29	33+90.29	RT	3.3		3.3		
19	34+38.96	34+44.72	RT	3.6		3.6		
19	35+26.88	35+35.90	RT	4.1		4.1		
19	36+87.89	36+96.92	RT	14.7	10.0	14.7		
ROUTE 32/72 WEST								
32/72	0+22.87	0+29.23	RT	3.5	10.0	3.5		
32/72	1+85.56	1+99.15	RT	4.8		4.8		
32/72	2+38.88	2+54.03	RT	4.2		4.2		
32/72	3+17.48	3+32.62	RT	7.9	10.0	7.9		
32/72	3+76.76	3+95.58	RT	9.1	15.4	9.1		
32/72	6+53.62	6+68.51	RT	7.7	10.0	7.7		
32/72	7+04.11	7+19.15	RT	7.7	10.0	7.7		
32/72	9+73.73	9+92.56	RT	9.0	20.8	9.0		
32/72	10+34.24	10+57.37	RT	16.0	21.2	16.0		
32/72	13+00.91	13+20.22	RT	11.4		11.4		
32/72	13+73.29	13+84.02	RT	5.4	20.0	5.4		
32/72	13+94.77	14+11.68	RT	10.6	10.0	10.6		
32/72	14+61.08	14+69.77	RT	4.6		4.6		
			SUB TOTAL 1	279.6	197.4	279.6	0.0	

CURB RAMP (TABLE 2 OF 3)

ROUTE	STA.	STA.	LOCATION	CONCRETE CURB RAMP	TRUNCATED DOMES	TYPE 1 AGG FOR BASE 4 IN.	CONCRETE SIDEWALK 8 IN.	REMARKS
				SY	SF	SY		
ROUTE 32/72 WEST								
32/72	15+11.55	15+23.17	RT	5.7		5.7		
32/72	16+91.86	17+06.87	RT	7.7	10.0	7.7		
32/72	17+41.61	17+56.42	RT	7.7	10.0	7.7		
32/72	17+79.33	17+89.41	RT	4.8		4.8		
32/72	18+50.81	18+60.35	RT	4.8		4.8		
32/72	19+14.01	19+23.19	RT	4.6		4.6		
32/72	19+83.57	19+94.40	RT	4.5		4.5		
32/72	20+27.14	20+37.33	RT	4.6		4.6		
32/72	20+68.02	20+77.94	RT	4.7		4.7		
32/72	22+48.07	22+64.36	RT	9.0	18.0	9.0		
32/72	22+98.88	23+17.69	RT	9.8	23.0	9.8		
32/72	24+51.89	24+61.66	RT	4.5		4.5		
32/72	24+98.27	25+06.72	RT	4.6		4.6		
32/72	25+93.93	26+02.87	RT	4.8		4.8		
32/72	26+39.00	26+47.04	RT	4.5		4.5		
32/72	26+76.22	26+90.58	RT	7.7	10.0	7.7		
32/72	27+28.79	27+43.76	RT	7.9	10.0	7.9		
32/72	28+30.47	28+38.46	RT	4.1		4.1		
32/72	28+80.69	28+89.96	RT	4.5		4.5		
32/72	29+87.31	30+02.09	RT	8.5	10.0	8.5		
32/72	30+37.44	30+56.08	RT	14.7	10.0	14.7		
32/72	33+23.57	33+37.73	RT	7.6	10.0	7.6		
32/72	33+76.46	33+90.22	RT	7.4	10.0	7.4		
32/72	34+68.87	34+76.34	RT	4.4		4.4		
32/72	35+07.50	35+14.76	RT	4.6		4.6		
32/72	35+68.14	35+75.71	RT	4.6		4.6		
32/72	36+16.26	36+22.39	RT	4.6		4.6		
32/72	36+56.01	36+69.97	RT	7.5	10.0	7.5		
32/72	37+03.04	37+17.31	RT	7.5	10.0	7.5		
ROUTE 32/72 EAST								
32/72	0+25.95	0+31.11	LT	2.8	10.0	2.8		
32/72	0+38.67	0+43.87	LT	1.1	10.0	1.1		
32/72	0+53.10	0+69.04	LT	9.9	10.0	9.9		
32/72	1+82.15	1+93.32	LT	6.0		6.0		
32/72	2+34.66	2+49.99	LT	8.7		8.7		
32/72	2+96.88	3+18.74	LT	15.6	23.0	15.6		
32/72	3+46.97	3+64.71	LT	11.3	23.0	11.3		
32/72	5+18.34	5+30.34	LT	8.3		8.3		
32/72	5+49.50	5+61.50	LT	8.3		8.3		
32/72	6+35.93	6+53.20	LT	11.5	22.0	11.5		
32/72	6+95.05	7+12.04	LT		21.0	17.3	17.3	
32/72	7+38.56	7+51.08	LT	8.0		8.0		
32/72	7+75.13	7+88.21	LT	8.4		8.4		
32/72	8+14.74	8+27.72	LT	8.3		8.3		
32/72	8+71.30	8+83.56	LT	8.3		8.3		
32/72	9+07.83	9+18.01	LT	6.9		6.9		
32/72	9+70.86	9+88.13	LT	11.5	22.0	11.5		
32/72	10+19.83	10+34.63	LT		18.0	9.3	9.3	
32/72	10+60.75	10+72.75	LT	8.1		8.1		
32/72	10+79.65	10+91.64	LT	8.2		8.2		
32/72	11+20.18	11+30.92	LT	7.3		7.3		
32/72	11+90.19	12+03.25	LT	8.3		8.3		
32/72	12+61.39	12+74.47	LT	8.2		8.2		
32/72	13+25.78	13+42.93	LT	11.0	21.0	11.0		
32/72	13+81.51	14+05.89	LT	16.3	21.0	16.3		
32/72	14+50.24	14+63.10	LT	8.3		8.3		
32/72	14+93.10	15+03.67	LT	6.7		6.7		
32/72	15+23.43	15+39.02	LT	8.9		8.9		
32/72	15+83.28	15+98.66	LT	9.2		9.2		
32/72	16+44.94	16+59.60	LT	8.8		8.8		
32/72	16+87.55	17+01.88	LT	8.7		8.7		
32/72	17+65.77	17+78.50	LT	8.3		8.3		
32/72	17+97.40	18+18.95	LT			13.0	13.0	
32/72	18+40.98	18+56.52	LT	9.3		9.3		
32/72	19+60.51	19+81.20	LT	25.9	25.0	25.9		
			SUB TOTAL 2	478.3	367.0	517.9	39.6	

SUMMARY OF QUANTITIES
SHEET 3 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-28339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/14/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY DENT
JOB NO. JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

CURB RAMP (TABLE 3 OF 3)

ROUTE	STA.	STA.	LOCATION	CONCRETE CURB RAMP	TRUNCATED DOMES	TYPE 1 AGG FOR BASE 4 IN.	CONCRETE SIDEWALK 8 IN.	REMARKS
				SY	SF	SY		
ROUTE 32/72 EAST								
32/72	19+82.70	19+92.76	RT	13.5	14.0	13.5		
32/72	20+17.70	20+39.60	LT	11.3	18.0	11.3		
32/72	21+66.41	21+76.00	LT	5.4		5.4		
32/72	22+11.13	22+32.49	LT			15.0	15.0	
32/72	22+54.29	22+68.13	LT	8.4		8.4		
32/72	22+90.19	23+03.05	LT	7.9		7.9		
32/72	23+21.87	23+34.73	LT	7.9		7.9		
32/72	23+64.02	23+76.88	LT	7.9		7.9		
32/72	23+95.70	24+08.56	LT	7.9		7.9		
32/72	24+67.54	24+80.40	LT	7.9		7.9		
32/72	25+02.81	25+20.51	LT			11.1	11.1	
32/72	25+46.37	25+59.23	LT	7.9		7.9		
32/72	26+32.99	26+37.99	LT			3.4	3.4	
32/72	26+40.46	26+45.98	LT	5.8	10.0	5.8		
			SUB TOTAL 3	91.8	42.0	121.3	29.5	
			SUB TOTAL 2	478.3	367.0	517.9	39.6	
			SUB TOTAL 1	279.6	197.4	279.6	0.0	
			TOTALS	849.7	606.4	918.8	69.1	
			USE	849.7	606	919	69.1	

LINEAR GRADING (TABLE 1 OF 2)

ROUTE	STA.	STA.	LOCATION	CLASS 2 LINEAR GRADING	REMARKS
				LF	
ROUTE 19					
19	14+49.45	16+90.83	RT	246.4	
19	17+26.81	17+61.09	RT	33.2	
19	17+88.02	32+33.75	RT	1437.2	
19	32+62.94	33+12.02	RT	48.1	
19	33+42.02	33+55.03	RT	12.7	
19	33+85.29	34+43.95	RT	58.6	
19	34+78.56	34+91.74	RT	13.5	
19	35+27.00	36+54.12	RT	125.0	
19	36+54.12	36+93.52	RT	45.2	
ROUTE 32/72 WEST					
32/72	0+22.86	0+36.52	RT	13.6	
32/72	0+54.56	1+85.52	RT	135.9	
32/72	1+85.56	1+99.15	RT	12.2	
32/72	2+38.92	3+13.09	RT	73.6	
32/72	3+13.09	3+17.37	RT	5.1	
32/72	3+17.37	3+33.64	RT	15.0	
32/72	3+71.03	3+81.84	RT	16.4	
32/72	3+74.15	3+92.55	RT	15.9	
32/72	3+92.55	6+41.80	RT	248.3	
32/72	6+41.80	6+51.04	RT	10.2	
32/72	6+51.04	7+20.52	RT	69.4	
32/72	7+20.52	7+31.02	RT	11.2	
32/72	7+31.02	9+71.33	RT	242.9	
32/72	9+71.33	9+75.82	RT	5.3	
32/72	9+75.82	9+94.61	RT	15.8	
32/72	10+32.34	10+44.53	RT	17.0	
32/72	10+36.95	10+54.99	RT	15.4	
32/72	10+54.99	12+80.13	RT	225.9	
32/72	12+80.13	13+12.77	RT	34.3	
32/72	13+09.23	13+19.89	RT	7.4	
32/72	13+73.27	13+80.89	RT	7.0	
32/72	13+80.89	13+84.02	RT	3.0	
32/72	13+95.10	14+00.59	RT	7.3	
32/72	14+00.59	14+69.62	RT	72.5	
			SUB TOTAL 1	3300.5	

LINEAR GRADING (TABLE 2 OF 2)

ROUTE	STA.	STA.	LOCATION	CLASS 2 LINEAR GRADING	REMARKS
				LF	
ROUTE 32/72 WEST					
32/72	15+11.94	16+79.60	RT	167.5	
32/72	16+79.60	16+89.28	RT	10.9	
32/72	16+89.28	17+06.57	RT	14.9	
32/72	17+42.01	17+57.88	RT	14.0	
32/72	17+59.04	17+68.48	RT	10.4	
32/72	17+68.74	17+89.41	RT	21.0	
32/72	18+50.81	19+23.26	RT	69.2	
32/72	19+83.86	20+37.33	RT	51.2	
32/72	20+67.94	24+61.61	RT	391.8	
32/72	24+98.44	26+02.70	RT	101.9	
32/72	26+39.09	26+64.27	RT	25.2	
32/72	26+64.27	26+73.56	RT	10.4	
32/72	26+73.56	26+90.58	RT	15.4	
32/72	27+28.76	27+45.12	RT	14.0	
32/72	27+45.12	27+55.70	RT	11.3	
32/72	27+55.70	29+62.35	RT	207.3	
32/72	29+62.35	29+83.10	RT	21.6	
32/72	29+83.10	30+01.26	RT	18.2	
32/72	30+37.94	30+44.69	RT	10.1	
32/72	30+37.44	30+56.08	RT	19.4	
32/72	30+56.08	30+72.14	RT	17.6	
32/72	30+72.14	33+11.68	RT	240.2	
32/72	33+11.68	33+22.13	RT	10.7	
32/72	33+22.13	33+37.73	RT	14.0	
32/72	33+76.46	33+89.33	RT	13.5	
32/72	33+92.21	34+05.82	RT	14.5	
32/72	34+05.79	34+76.34	RT	69.9	
32/72	35+07.63	35+75.56	RT	65.6	
32/72	36+16.26	36+44.50	RT	26.5	
32/72	36+44.50	36+54.05	RT	12.1	
32/72	36+54.05	37+19.27	RT	64.7	
32/72	37+19.27	37+28.99	RT	13.7	
32/72	37+28.99	39+83.85	RT	254.4	
32/72	39+83.85	40+02.60	RT	21.3	
ROUTE 32/72 EAST					
32/72	0+26.03	0+43.90	LT	16.6	
32/72	0+52.43	1+92.97	LT	144.5	
32/72	2+34.62	6+55.83	LT	416.7	
32/72	6+83.58	9+88.12	LT	299.2	
32/72	9+88.12	12+06.86	LT	220.2	
32/72	12+59.38	15+42.47	LT	283.1	
32/72	15+81.27	16+62.95	LT	81.7	
32/72	16+85.26	19+68.51	LT	283.2	
32/72	19+68.51	19+81.15	LT	36.8	
32/72	19+78.60	19+90.54	RT	25.0	
32/72	20+18.23	26+45.47	LT	633.6	
			SUB TOTAL 2	4485.0	
			SUB TOTAL 1	3300.5	
			TOTAL	7785.5	
			USE STA.	77.9	

SUMMARY OF QUANTITIES
SHEET 4 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/14/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY DENT
JOB NO. JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

ROUTE	DRAINAGE ID	STA	LOCATION	OFFSET	GROUP C PIPE 18 IN. (LF)	TYPE T DROP INLET TOP* (EA)	FLARED END SECTIONS (EA)	REMARKS
32/72 (EAST)	I-1	4+98	LT	31.58		1.0		
32/72 (EAST)	I-2	8+30	LT	31.49		1.0		
32/72 (EAST)	I-3	11+33	LT	31.56		1.0		
32/72 (EAST)	I-4	15+06	LT	31.58		1.0		
32/72 (EAST)	P1	20+02	RT	31.95	14.0		1.0	
32/72 (EAST)	I-6	22+69	LT	31.17		1.0		
32/72 (EAST)	I-7	26+31	LT	31.05		1.0		
				TOTALS	14.0	6.0	1.0	
				USE	14	6	1	

NO DIRECT PAYMENT FOR CLASS 3 EXCAVATION. INCLUDED IN COST OF DRAINAGE STRUCTURE
*INCLUDE ADA COMPLIANT MANHOLE LID

MISC. (UTILITY ADJUSTMENTS)

ROUTE	STA.	LOCATION	EA	REMARKS
ROUTE 32 / 72 WEST				
32/72	18+96.00	RT	1	ADJUST WATER VALVE
32/72	18+98.00	RT	1	ADJUST WATER VALVE
32/72	22+86.34	RT	1	ADJUST WATER VALVE
32/72	30+43.69	RT	1	ADJUST WATER VALVE
32/72	36+83.85	RT	1	ADJUST MANHOLE
ROUTE 32 / 72 EAST				
32/72	3+21.91	LT	1	ADJUST WATER VALVE
32/72	6+99.10	LT	1	ADJUST MANHOLE
32/72	17+09.15	LT	1	ADJUST MANHOLE
32/72	20+14.08	LT	1	ADJUST MANHOLE
		TOTAL	9	

PAVEMENT MARKING (PERMANENT)

ROUTE	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE (MIDBLOCKS) LF	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE (STOP BAR) LF	PAVEMENT MARKING REMOVAL LF	REMARKS
ROUTE 19						
19	LT/RT	CROSSING AT RTE 32/72	102.0	13.0	13.0	
ROUTE 32/72 WEST						
32/72	RT	CROSSING AT ROUTE J	72.0	11.0	154.4	
32/72	RT	CROSSING AT S ASKINS ST	36.0	12.0	12.0	
ROUTE 32/72 EAST						
32/72	LT/RT	CROSSING AT S WARFEL ST	96.0	10.0		
		TOTALS	306.0	46.0	179.4	
		USE	306	46	179	

CONCRETE MEDIAN

ROUTE	STA.	STA.	LOCATION	CONCRETE MEDIAN 6 IN. SY	TYPE 5 AGG FOR BASE 4 IN. SY	REMARKS
ROUTE 19						
19	10+58.81	11+02.66	RT	10.0	10.0	
19	26+92.73	27+01.10	RT	1.4	1.4	
19	34+79.16	34+91.67	RT	4.8	4.8	
19	34+79.00	34+91.21	RT	3.4	3.4	
ROUTE 32/72 WEST						
32/72	0+23.84	0+32.88	RT	9.3	9.3	
32/72	0+23.34	0+41.81	RT	11.0	11.0	
32/72	13+73.79	13+79.89	RT	2.2	2.2	
32/72	13+73.77	13+91.53	RT	14.7	14.7	
ROUTE 32/72 EAST						
32/72	0+26.20	0+39.19	LT	8.8	8.8	
32/72	0+26.62	0+56.17	LT	24.0	24.0	
32/72	19+73.67	19+79.07	LT	1.2	1.2	
			TOTALS	90.8	90.8	
			USE	90.8	91	

PAVED APPROACH

ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE 4 IN. SY	PAVED APPROACH 8 IN. SY	8" PCCP PAVEMENT SY	GRAVEL (A) OR CHAT (C) SY	REMARKS
ROUTE 19							
19	15+49.41	RT	57.6	57.6			
19	19+51.18	RT	61.2	61.2		31.5	
19	21+18.33	RT	62.0	62.0		37.6	
19	22+19.60	RT	66.8	66.8		40.5	
19	23+30.48	RT	70.1	70.1		42.3	
19	24+53.80	RT	70.8	70.8			
19	25+26.45	RT	58.6	58.6			
19	26+61.38	RT	100.1	100.1			
19	27+14.38	RT	32.0	32.0		15.7	
19	27+95.21	RT	111.1	111.1			
19	28+94.92	RT	67.7	67.7			
19	29+93.63	RT	137.3	137.3			
19	30+65.31	RT	73.0	73.0			
19	31+57.14	RT	105.9	105.9			
ROUTE 32/72 WEST							
32/72	6+85.53	RT	102.8	102.8			
32/72	14+67.53	RT	1.8		1.8		
32/72	22+81.16	RT	68.9	68.9			
32/72	28+60.22	RT	96.9	96.9			
32/72	36+86.54	RT	107.4	107.4			
ROUTE 32/72 EAST							
32/72	3+32.79	LT	101.2	101.2			
32/72	5+39.92	LT	29.2	29.2			
32/72	7+25.41	LT	55.1	55.1			
32/72	8+01.62	LT	55.5	55.5			
32/72	8+78.70	LT	4.9		4.9		
32/72	9+11.54	LT	4.9		4.9		
32/72	10+03.82	LT	97.7	97.7			
32/72	10+47.22	LT	40.5	40.5			
32/72	11+05.54	LT	50.2	50.2			
32/72	11+98.53	LT	7.6		7.6		
32/72	12+66.94	LT	6.8		6.8		
32/72	13+63.63	LT	68.9	68.9			
32/72	14+78.12	LT	54.8	54.8			
32/72	15+32.95	LT	11.6		11.6		
32/72	15+89.97	LT	7.9		7.9		
32/72	16+53.95	LT	9.3		9.3		
32/72	16+93.57	LT	7.3		7.3		
32/72	17+88.04	LT	37.0	37.0			
32/72	18+29.94	LT	97.1	97.1			
32/72	18+73.93	LT	25.0		25.0		
32/72	19+76.41	RT	21.8		21.8		LOT REPAIR
32/72	20+01.05	LT	102.4	102.4			
32/72	21+94.03	LT	66.7	66.7			
32/72	22+43.13	LT	39.2	39.2			
32/72	23+12.55	LT	28.7	28.7			
32/72	23+86.38	LT	26.6	26.6			
32/72	24+91.68	LT	38.4	38.4			
32/72	25+33.42	LT	49.3	49.3			
		TOTALS	2597.6	2488.7	108.9	167.6	
		USE	2598	2488.7	108.9	168	

SUMMARY OF QUANTITIES
SHEET 5 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/14/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY DENT
JOB NO. JCD0129
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

HAND-RAILING

ROUTE	STA.	STA.	LOCATION	SIDEWALK HAND-RAILING WITHOUT BALUSTERS	REMARKS
				LF	
ROUTE 32/72 WEST					
32/72	7+68.64	7+88.64	RT	20.0	
32/72	10+45.03	10+65.14	RT	20.0	
32/72	22+24.46	22+64.46	RT	40.0	
ROUTE 32/72 EAST					
32/72	4+87.14	5+07.14	LT	20.0	
			TOTAL	100.0	
			USE	100	

CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL = 1 LUMP SUM

MOBILIZATION

TOTAL = 1 LUMP SUM

TURF TYPE TALL FESCUE SODDING

ROUTE	STA.	STA.	LOCATION	SY	REMARKS
ROUTE 19					
19	14+49.44	15+30.80	RT	20.7	
19	15+65.55	16+86.69	RT	26.6	
19	17+29.40	17+60.46	RT	4.6	
19	17+88.49	19+24.88	RT	29.4	
19	19+78.22	20+89.24	RT	20.8	
19	21+47.50	21+87.90	RT	8.2	
19	22+51.07	23+00.03	RT	9.4	
19	23+60.99	24+26.88	RT	16.8	
19	25+46.79	26+30.96	RT	5.0	
19	26+91.87	27+02.10	RT	19.9	
19	27+26.79	27+66.64	RT	9.1	
19	28+24.62	28+65.37	RT	11.3	
19	29+24.48	29+64.17	RT	9.2	
19	30+22.64	30+50.17	RT	5.0	
19	30+80.55	31+34.41	RT	12.1	
19	31+80.14	32+33.96	RT	12.2	
19	32+64.61	33+11.76	RT	11.3	
19	33+42.42	33+54.84	RT	2.1	
19	33+85.30	34+45.29	RT	12.8	
ROUTE 32/72 WEST					
32/72	0+45.38	1+99.52	RT	120.9	
32/72	2+40.98	3+30.13	RT	21.6	
32/72	3+90.09	6+62.10	RT	69.9	
32/72	7+09.74	9+88.11	RT	72.5	
32/72	10+55.44	13+14.71	RT	60.6	
32/72	13+99.10	14+65.46	RT	16.1	
32/72	15+18.41	17+01.16	RT	42.5	
32/72	17+46.94	17+84.34	RT	12.1	
32/72	17+65.96	17+89.45	RT	3.7	
32/72	18+51.00	18+69.40	RT	1.4	
32/72	18+55.97	19+18.95	RT	12.7	
32/72	19+07.14	19+22.88	RT	1.1	
32/72	19+83.63	19+92.87	RT	0.4	
32/72	19+88.11	20+32.94	RT	9.6	
32/72	20+12.54	20+37.24	RT	2.0	
32/72	20+68.30	20+76.72	RT	0.3	
32/72	20+72.70	22+56.08	RT	38.7	
32/72	23+10.62	24+58.64	RT	27.1	
32/72	25+02.01	25+98.44	RT	20.5	
32/72	26+42.81	26+85.18	RT	12.2	
32/72	27+35.23	28+35.47	RT	27.4	
32/72	28+84.96	29+98.32	RT	39.1	
32/72	30+38.83	33+32.16	RT	84.7	
32/72	33+81.35	34+73.24	RT	24.0	
32/72	35+10.76	35+71.93	RT	11.8	
32/72	36+19.46	36+65.21	RT	15.1	
32/72	37+08.39	39+88.08	RT	64.5	
ROUTE 32/72 EAST					
32/72	1+79.00	1+87.91	LT	0.6	
32/72	19+03.19	19+45.39	LT	19.1	
32/72	19+88.69	19+95.47	RT	1.6	
			TOTAL	1078.7	
			USE	1079	

CURB AND GUTTER

ROUTE	STA.	STA.	LOCATION	TYPE B CURB AND GUTTER	MODIFIED TYPE A GUTTER	TYPE 1 AGGREGATE FOR BASE 4 IN.	TYPE 5 AGGREGATE FOR BASE 4 IN.	REMARKS
				LF	LF	SY	SY	
ROUTE 19								
19	10+58.67	11+02.82	RT	41.0			13.7	
19	11+76.71	11+80.13	RT		7.0	2.3		INCLUDE 3' X 7' STEEL PLATE
19	35+24.23	35+31.87	RT	14.7			4.9	
19	35+94.87	35+97.91	RT		7.0	2.3		INCLUDE 3' X 7' STEEL PLATE
ROUTE 32/72 EAST								
32/72	1+55.58	1+58.64	LT		7.0	2.3		INCLUDE 3' X 7' STEEL PLATE
32/72	2+96.88	3+21.39	LT	53.3			17.8	
32/72	3+54.70	3+64.70	LT	23.0			7.7	
32/72	5+18.34	5+26.34	LT	8.0			2.7	
32/72	5+53.49	5+61.49	LT	8.0			2.7	
32/72	6+35.93	6+55.83	LT	22.8			7.6	
32/72	6+83.66	7+04.18	LT	23.7			7.9	
32/72	7+45.88	7+51.08	LT	5.2			1.7	
32/72	7+75.13	7.80.34	LT	5.2			1.7	
32/72	8+22.59	8+27.72	LT	5.1			1.7	
32/72	8+71.30	8+78.22	LT	6.9			2.3	
32/72	9+12.89	9+18.01	LT	5.1			1.7	
32/72	9+70.86	9+91.73	LT	33.0	5.8	1.9	11.0	
32/72	10+15.92	10+27.71	LT	35.1			11.7	
32/72	10+67.26	10+84.64	LT	17.9			6.0	
32/72	11+26.69	11+30.93	LT	4.3			1.4	
32/72	11+90.19	11+95.48	LT	5.3			1.8	
32/72	12+69.26	12+74.48	LT	5.2			1.7	
32/72	13+25.79	13+45.82	LT	30.0			10.0	
32/72	13+78.15	14+05.88	LT	37.2			12.4	
32/72	14+50.24	14+55.24	LT	5.0			1.7	
32/72	15+01.00	15+03.97	LT	2.7			0.9	
32/72	15+23.43	15+26.62	LT	3.2			1.1	
32/72	15+92.53	15+98.66	LT	6.1			2.0	
32/72	16+44.94	16+50.74	LT	5.8			2.6	
32/72	16+94.87	17+01.88	LT	7.0			2.3	
32/72	17+65.77	17+70.77	LT	5.0			1.7	
32/72	18+05.31	18+10.30	LT	5.0			1.7	
32/72	18+51.52	19+84.20	LT	148.8			49.6	
32/72	19+79.76	19+93.88	RT	30.6			10.2	
32/72	19+82.76	19+93.88	RT		12.5	4.2		INCLUDE 3' X 8' STEEL PLATE
32/72	20+08.59	20+35.76	LT	33.3			11.1	
32/72	22+63.13	22+68.13	LT	5.0			1.7	
32/72	22+90.19	22+95.19	LT	5.0			1.7	
32/72	23+29.73	23+34.73	LT	5.0			1.7	
32/72	23+64.02	23+69.02	LT	5.0			1.7	
32/72	24+03.56	24+08.56	LT	5.0			1.7	
32/72	24+67.54	24+72.54	LT	5.0			1.7	
32/72	25+54.23	25+59.23	LT	5.0			1.7	
32/72	26+32.99	26+48.49	LT	38.2			12.7	
			TOTALS	715.7	39.3	13.0	239.6	
			USE	716	39	13	240	

SUMMARY OF QUANTITIES
SHEET 6 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/23/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY DENT
JOB NO. JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

DISCLAIMER
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TEMPORARY EROSION CONTROL

PLAN SHEET NO.	STATION	STATION	ROADWAY	OFFSET	SILT FENCE (LF)	CURB INLET CHECK (EA)	ALTERNATE DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
1	9+00	37+58	RTE 19	LT	15	7	54	10.2	
2	00+00	27+00	RTE 32/72 (EAST)	LT	850	10	54	21.5	
3	00+20	27+20	RTE 32/72 (WEST)	LT	625	14	18	21.3	
4	27+20	41+00	RTE 32/72 (WEST)	LT	390	7	0	10.9	
PAY TOTAL					1880	38	126	64	

ADDITIONAL MOBILIZATION FOR SEEDING	4 EACH
TEMPORARY SEEDING	1 LUMP SUM
MUCHING	1 LUMP SUM

SUMMARIES OF QUANTITIES
SHEET 7 OF 8

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

11/25/2025 1:01:54 PM
Derek B. Koestel - Civil
MO PE-2002201667

DATE PREPARED 11/25/2025
ROUTE VAR | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY DENT
JOB NO. JCD0129
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)

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

WARNING SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00	2	32.00			15a	REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	2	32.00			15b	REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	1	16.00			6A	MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	13	208.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	1	16.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	3	48.00			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	2	32.00			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

GUIDE SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12.00			54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)

REGULATORY SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	4	48.00			4&25	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	3	48.00			37	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	8	16.00			67	SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	2	20.00			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25.00			10	ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)

MISCELLANEOUS SIGNS

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	4	48.00			60	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL 613
616-10.10 RELOCATED SIGNS	TOTAL 0

* INDICATES ITEM IS <u>NOT</u> INCLUDED IN LUMP SUM TEMPORARY TRAFFIC CONTROL.

**NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNING OR DEVICES.

NOTES:

ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01 TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

SIGN QUANTITIES HAVE BEEN ESTIMATED. TEMPORARY TRAFFIC CONTROL SHALL FOLLOW AT A MINIMUM MUTCD STANDARDS, LATEST EDITION.

ALL WARNING SIGN SHALL HAVE FLUORESCENT SHEETING.

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001	1*	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	200	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	8	TYPE 3 MOVEABLE BARRICADE
6161033	14	DIRECTION INDICATOR BARRICADE
6161040	3	FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	4*	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6169902	14*	ADA COMPLIANT MOVABLE BARRICADE

TEMPORARY TRAFFIC CONTROL
616-99.01
1 LUMP SUM

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SUMMARIES OF QUANTITIES
SHEET 8 OF 8

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2020201667
PROFESSIONAL ENGINEER

11/25/2025 1:02:31 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	11/25/2025
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	3
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

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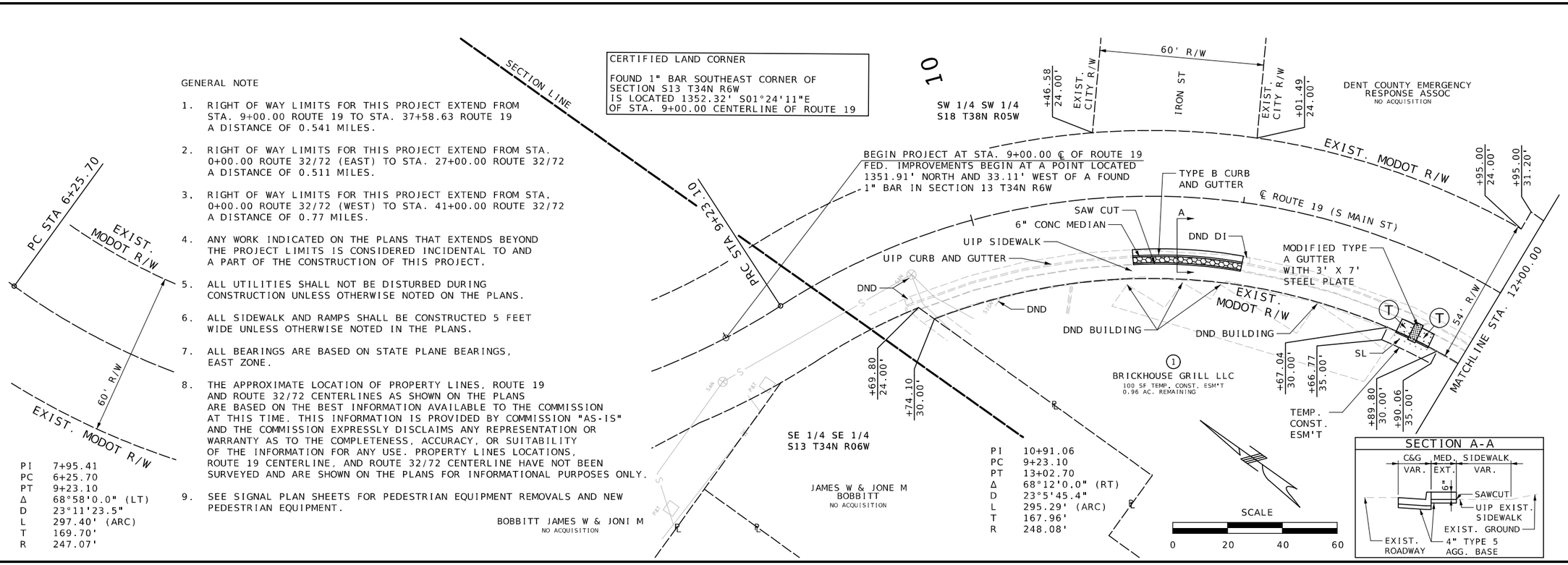
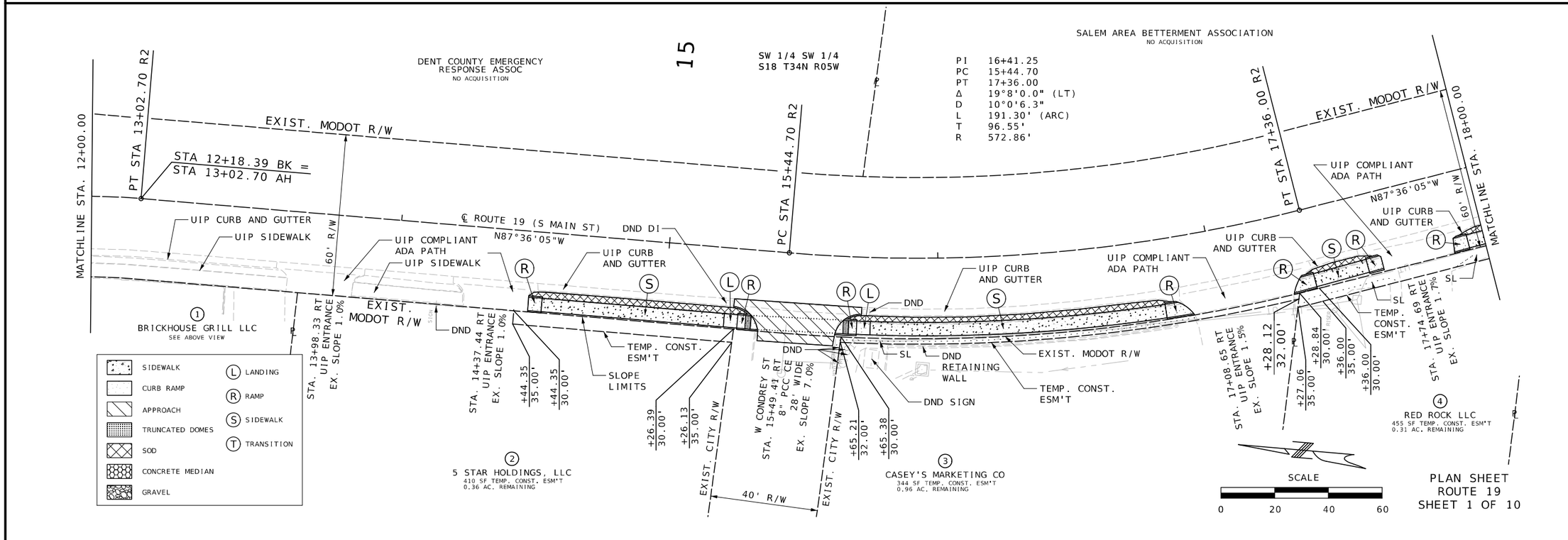
Missouri Certificate of Authority: 001578

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 9+00.00 ROUTE 19 TO STA. 37+58.63 ROUTE 19 A DISTANCE OF 0.541 MILES.
2. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 0+00.00 ROUTE 32/72 (EAST) TO STA. 27+00.00 ROUTE 32/72 A DISTANCE OF 0.511 MILES.
3. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 0+00.00 ROUTE 32/72 (WEST) TO STA. 41+00.00 ROUTE 32/72 A DISTANCE OF 0.77 MILES.
4. 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.
5. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
6. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
7. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, EAST ZONE.
8. THE APPROXIMATE LOCATION OF PROPERTY LINES, ROUTE 19 AND ROUTE 32/72 CENTERLINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY 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. PROPERTY LINES LOCATIONS, ROUTE 19 CENTERLINE, AND ROUTE 32/72 CENTERLINE HAVE NOT BEEN SURVEYED AND ARE SHOWN ON THE PLANS FOR INFORMATIONAL PURPOSES ONLY.
9. SEE SIGNAL PLAN SHEETS FOR PEDESTRIAN EQUIPMENT REMOVALS AND NEW PEDESTRIAN EQUIPMENT.





PLAN SHEET
ROUTE 19
SHEET 1 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 4
COUNTY DENT	
JOB NO. JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

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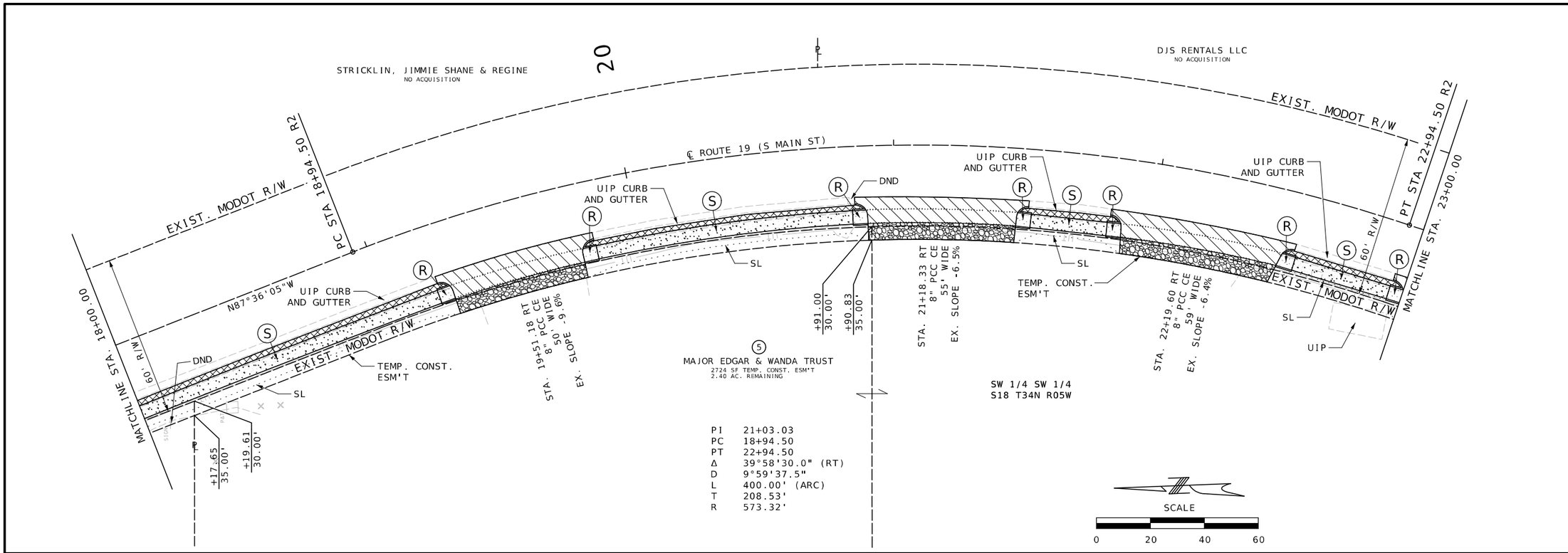

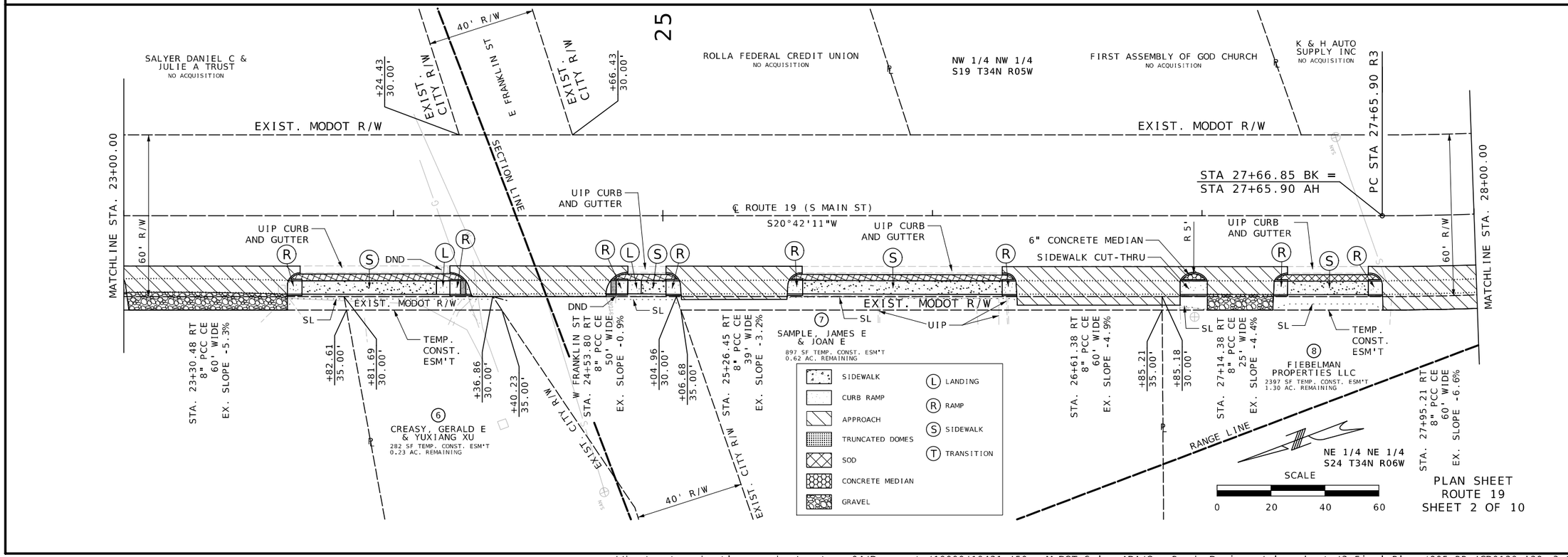

PLAN SHEET
ROUTE 19
SHEET 2 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	5
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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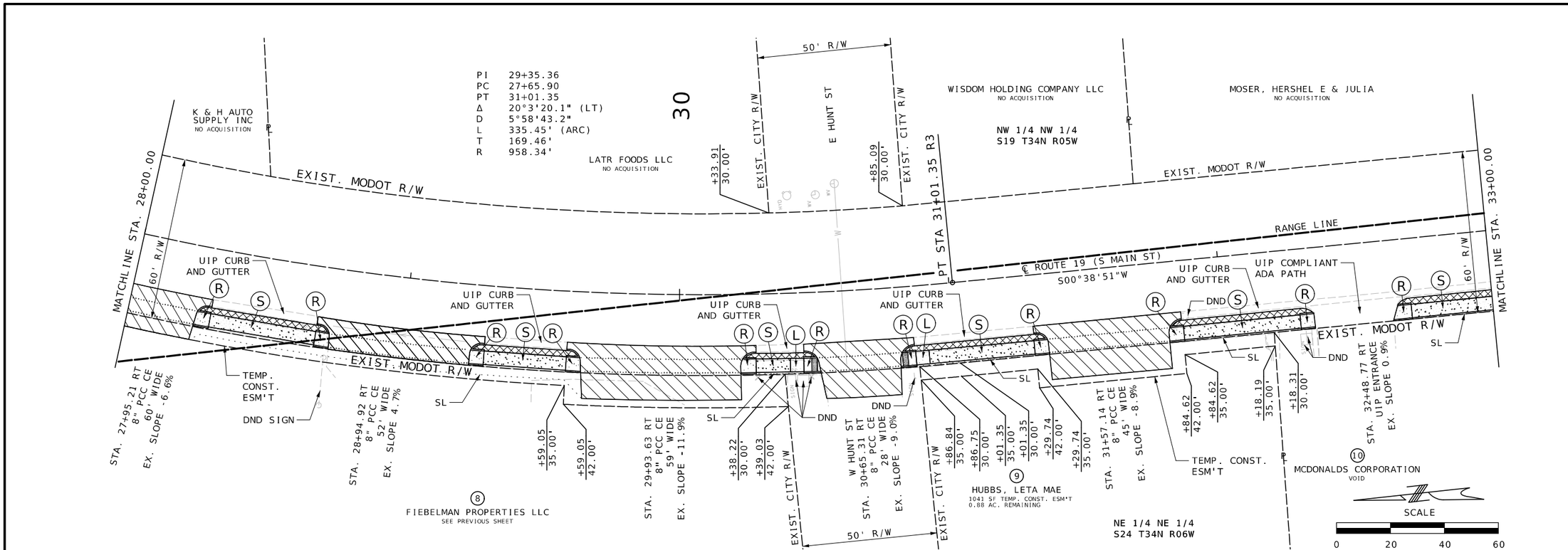

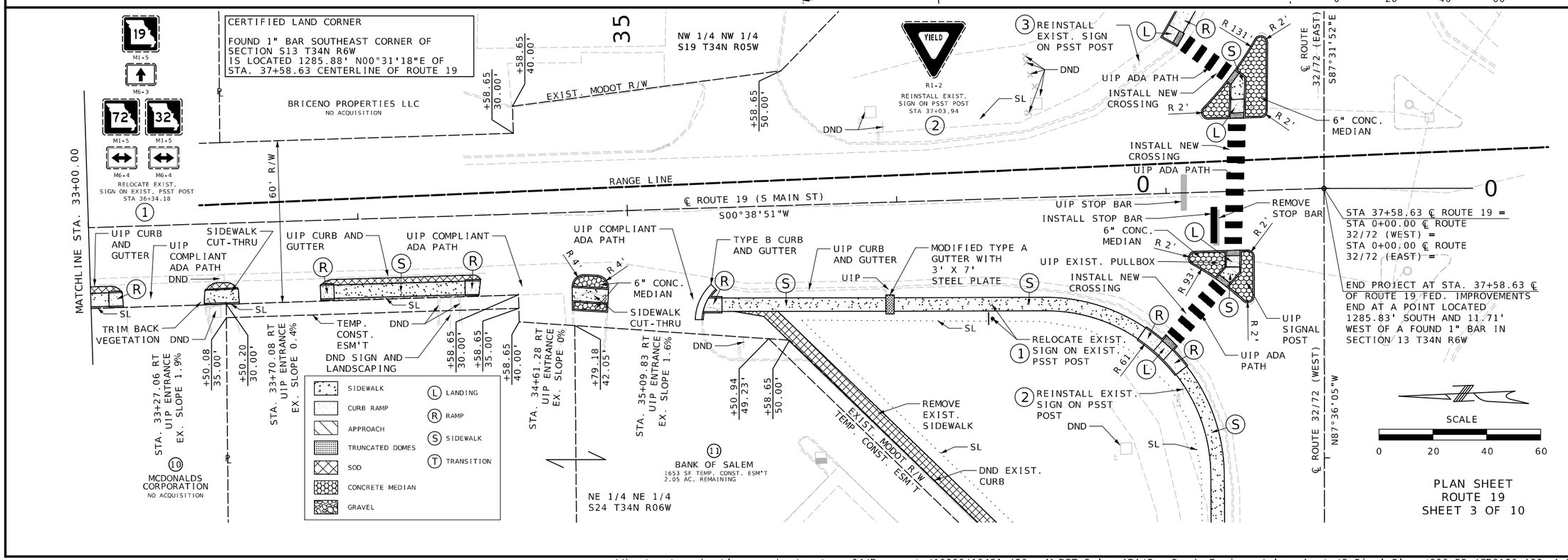

PLAN SHEET
ROUTE 19
SHEET 3 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
11/14/2025	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 6
COUNTY DENT	
JOB NO. JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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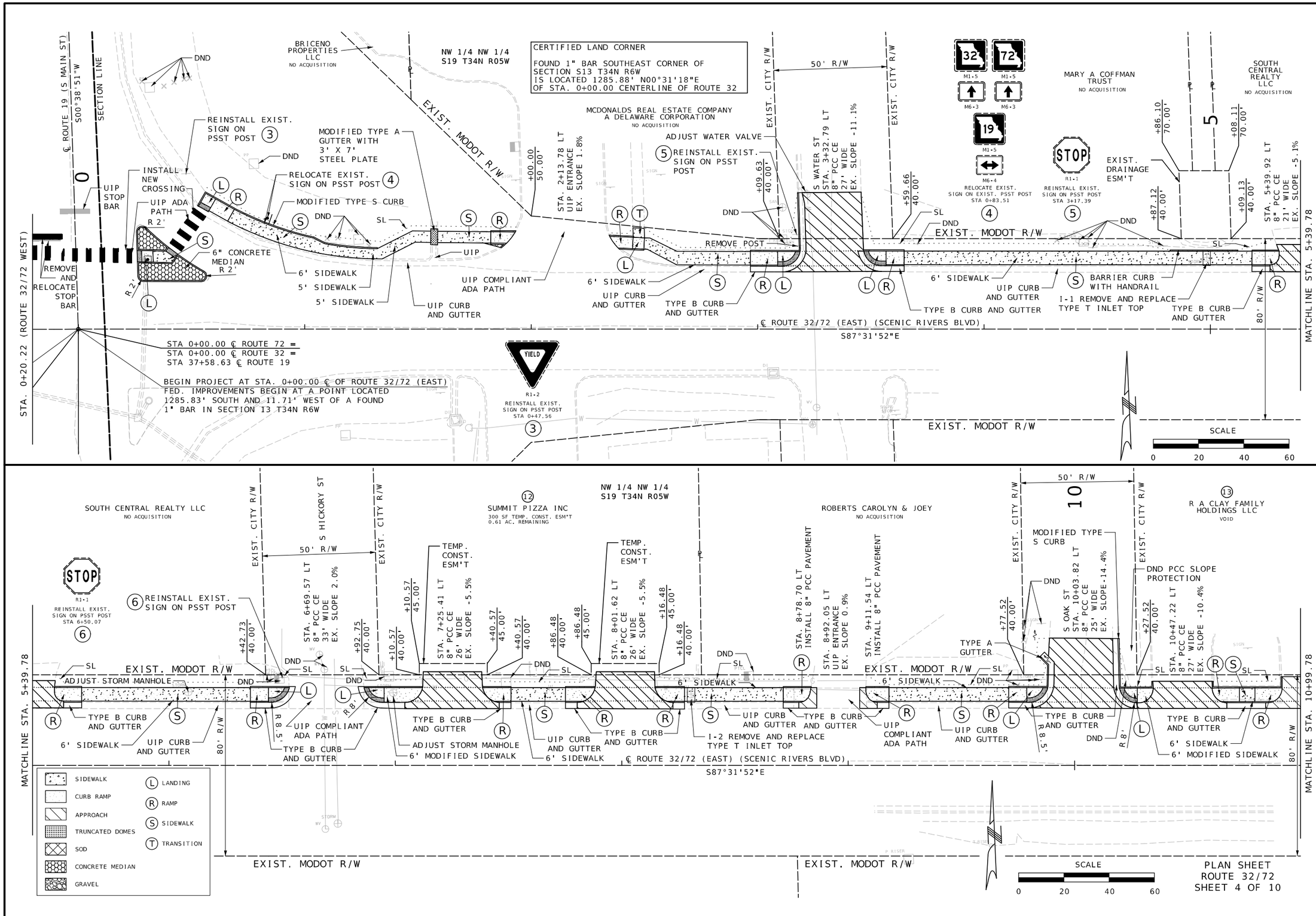
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

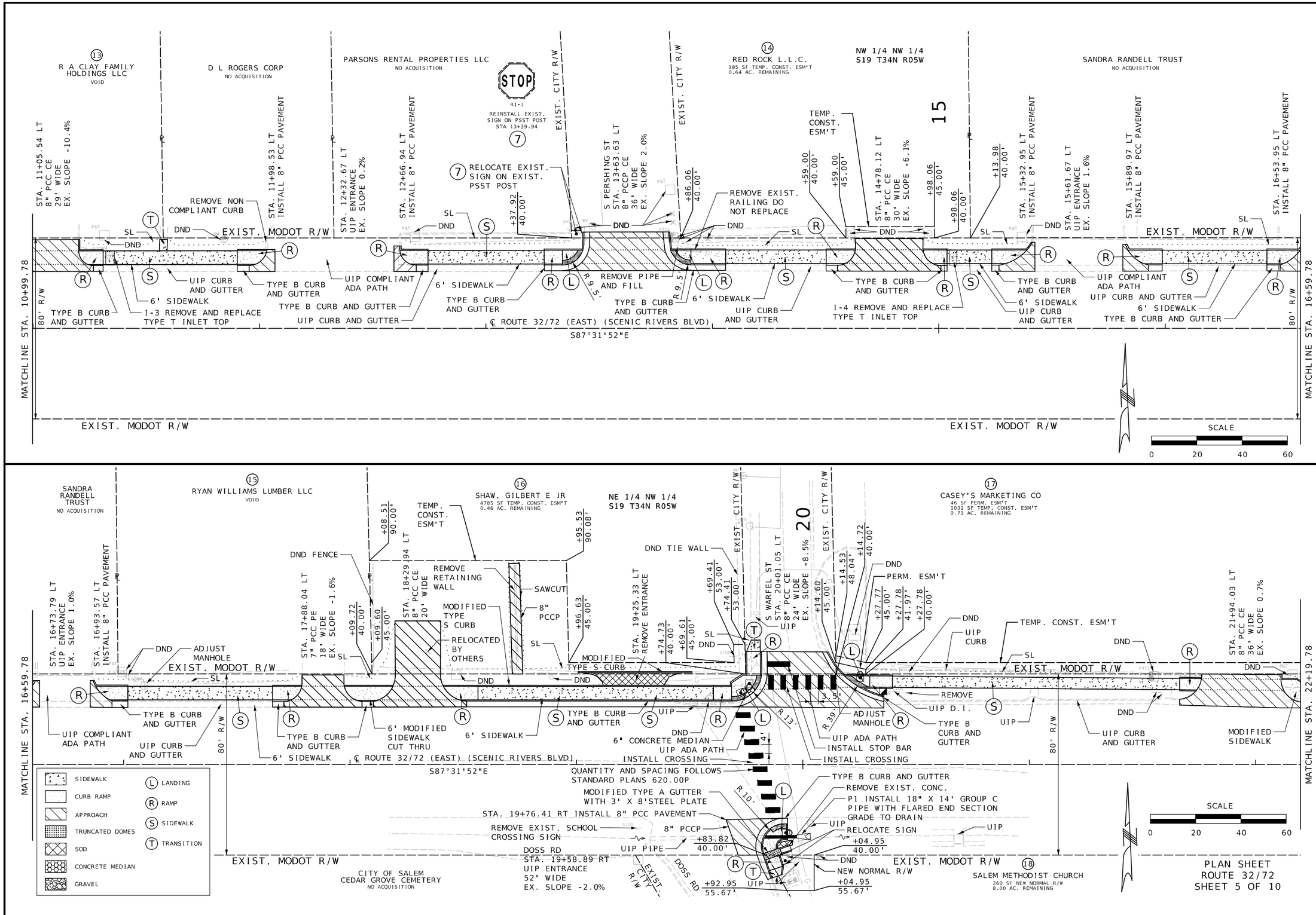
DATE PREPARED	
11/14/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	7
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



PLAN SHEET
ROUTE 32/72
SHEET 5 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
11/14/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	8
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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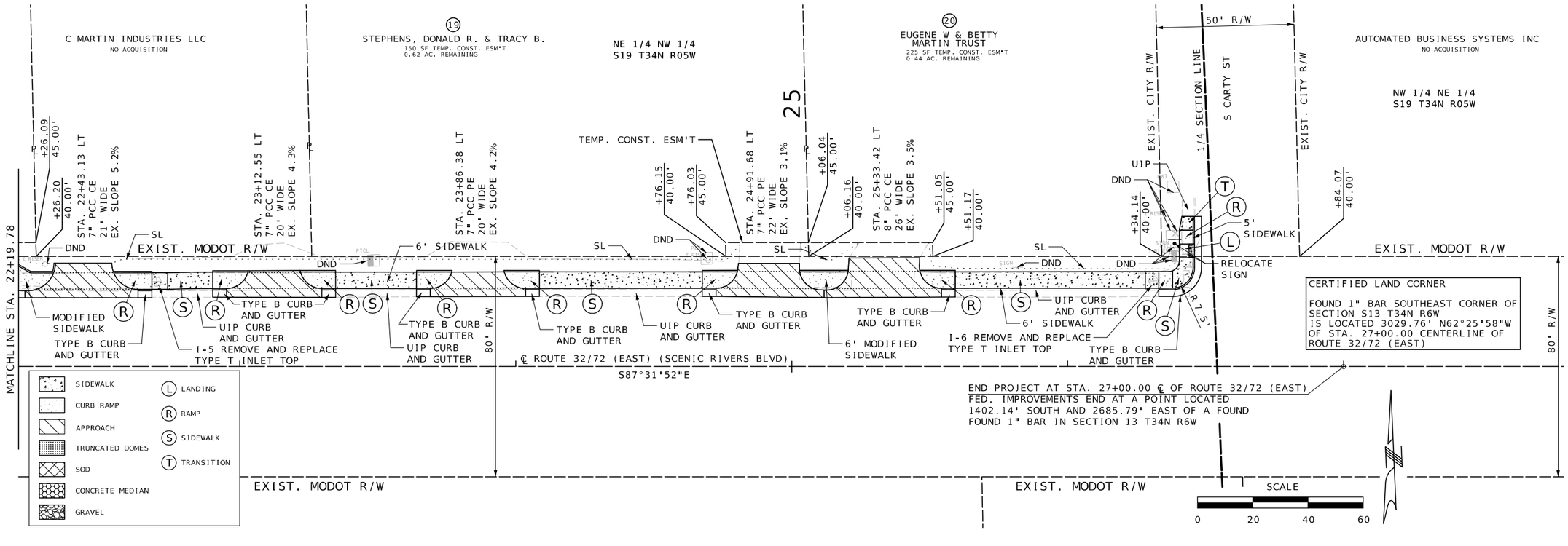


PLAN SHEET
ROUTE 32/72
SHEET 6 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

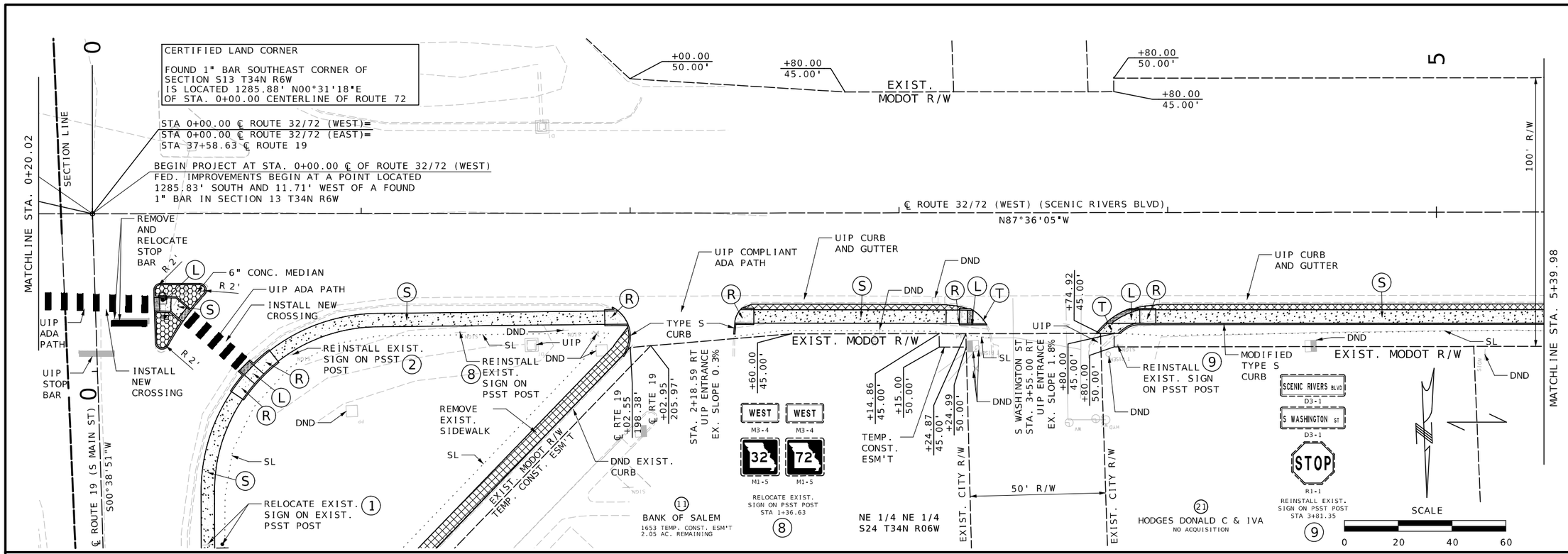
DATE PREPARED	
10/23/2025	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 9
COUNTY DENT	
JOB NO. JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

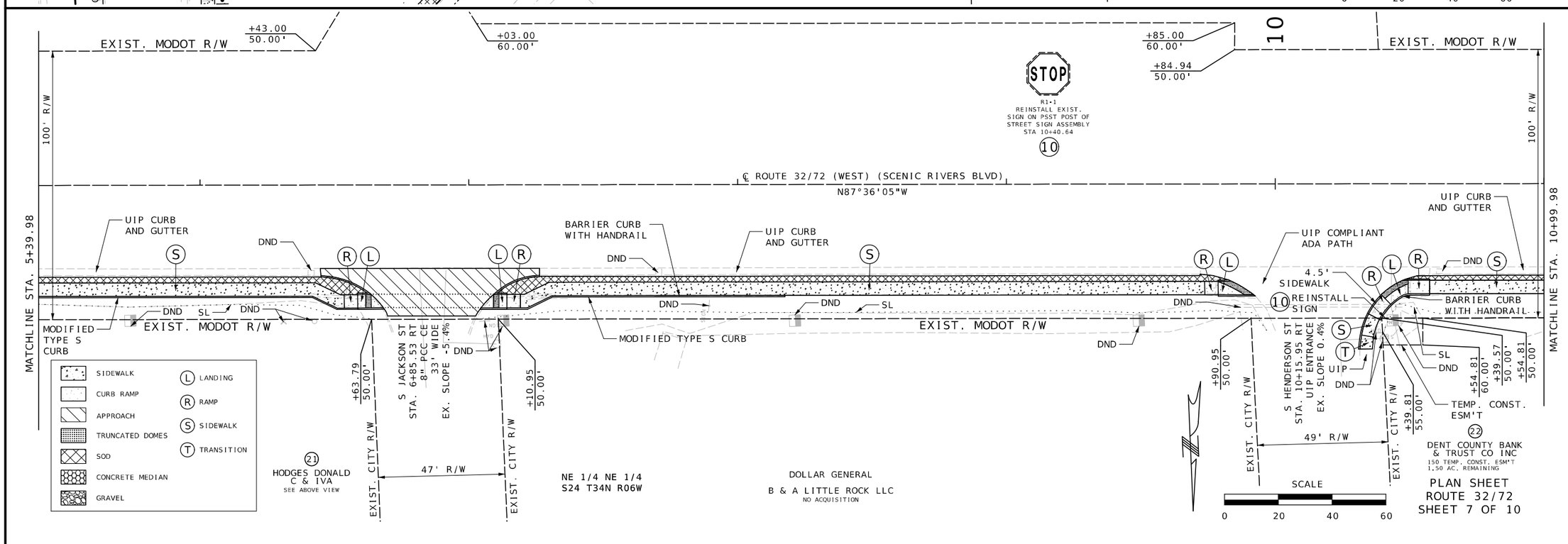
DATE	DESCRIPTION

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

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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





PLAN SHEET
ROUTE 32/72
SHEET 7 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	10
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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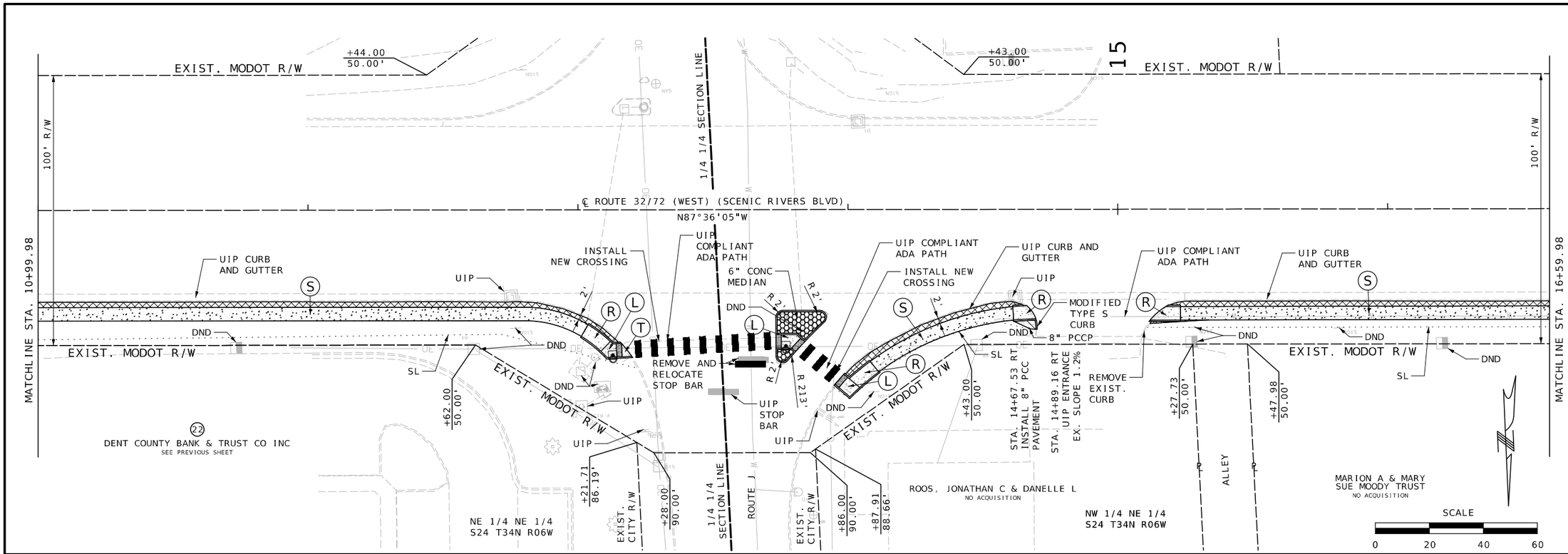

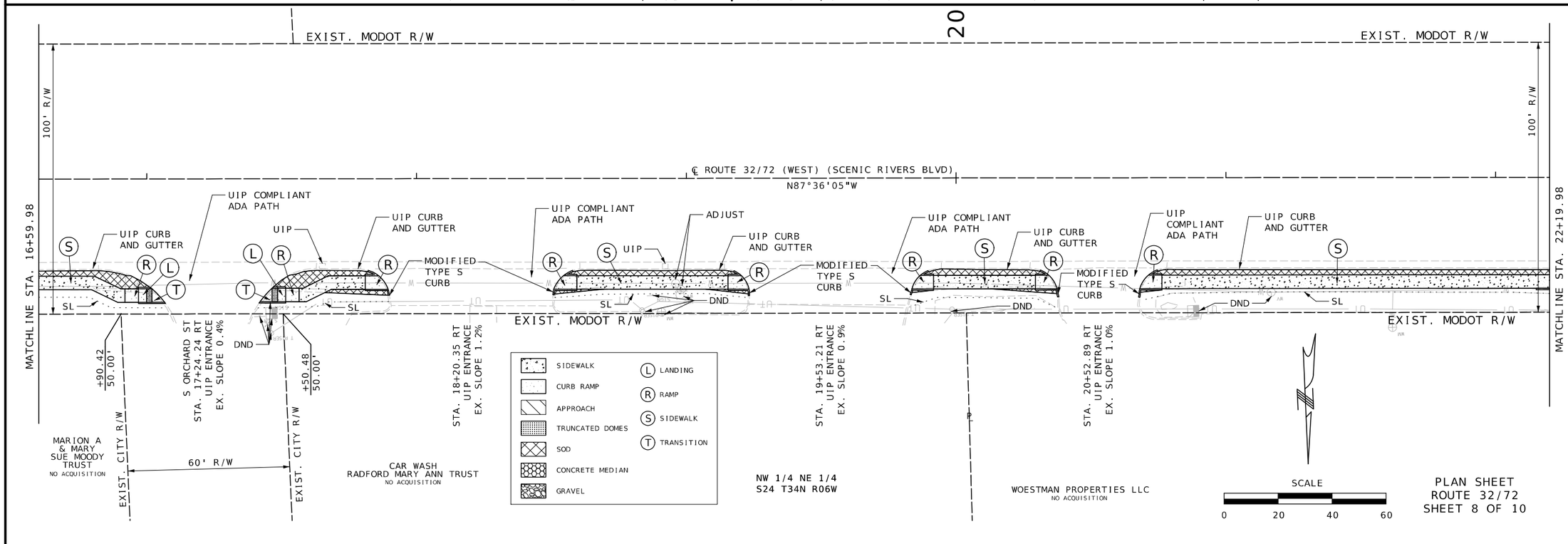

PLAN SHEET
ROUTE 32/72
SHEET 8 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	11
COUNTY	
DENT	
JOB NO.	
JCD0129	
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)

Bartlett & West
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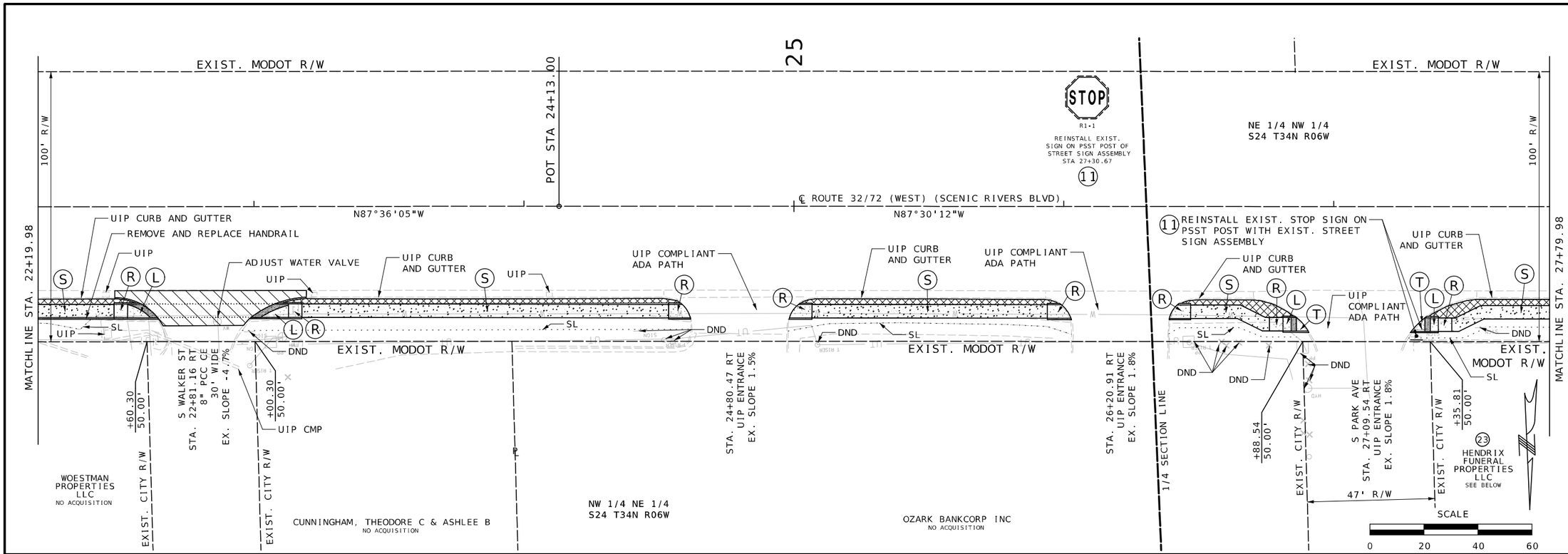
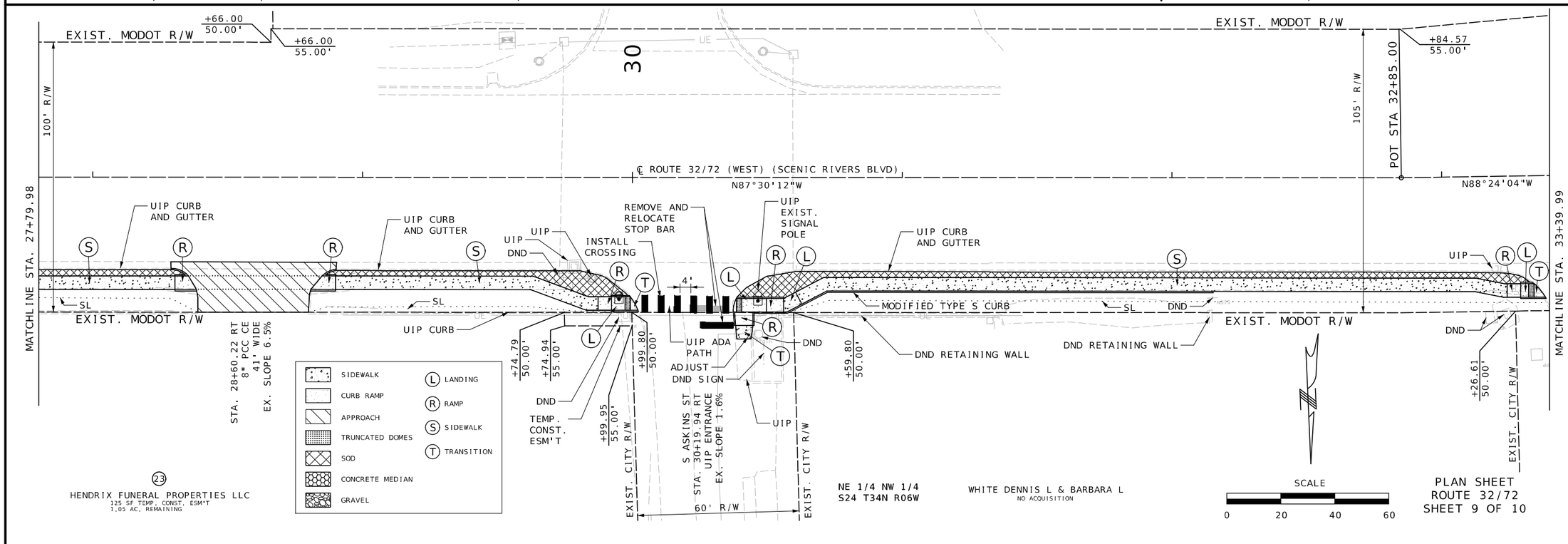
WWW.BARTLETTWEST.COM

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





PLAN SHEET
ROUTE 32/72
SHEET 9 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	12
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
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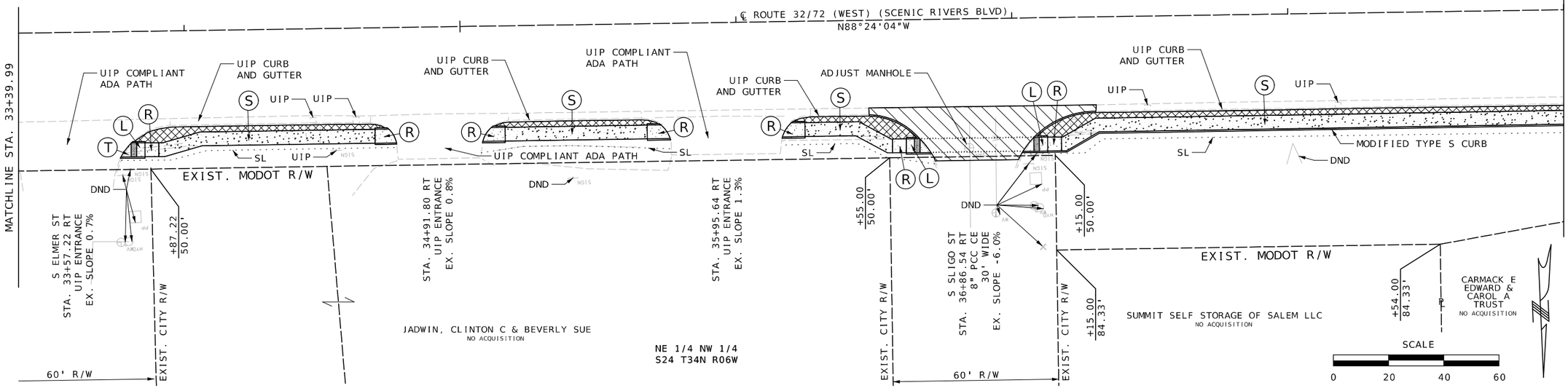
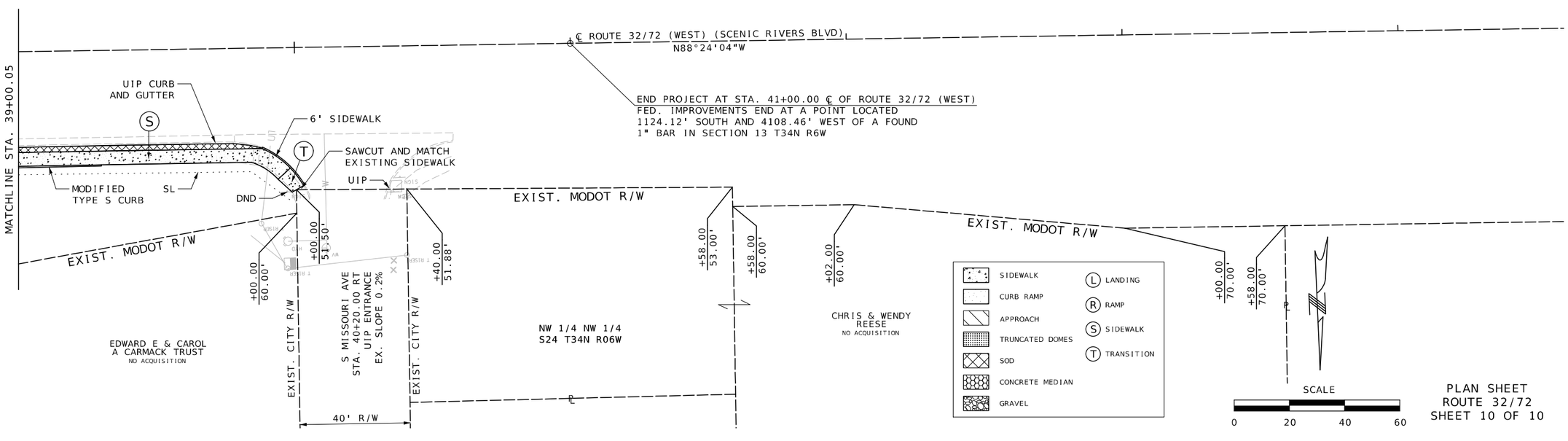
35



40

CERTIFIED LAND CORNER

FOUND 1" BAR SOUTHEAST CORNER OF
SECTION S13 T34N R6W
IS LOCATED 4259.46' N74°41'52"E
OF STA. 41+00.00 CENTERLINE OF ROUTE 72



PLAN SHEET
ROUTE 32/72
SHEET 10 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	13
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

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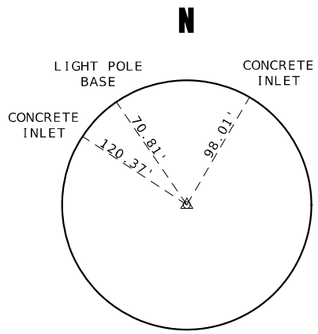
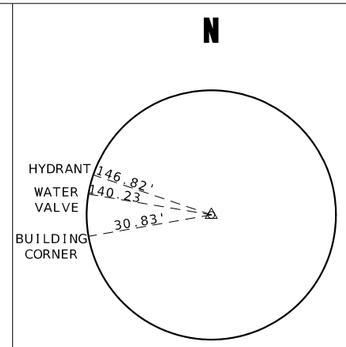
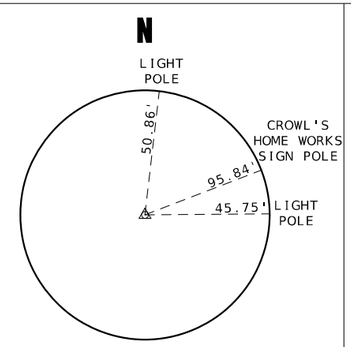


CP# 100 - X CUT IN INLET TOP
N: 657883.3630
E: 517033.5610
ELEV. 1218.2160



CP# 101 - 5/8" ROD W/ CAP
N: 658537.5300
E: 520509.5780
ELEV. 1182.8510



RP# 102 - 5/8" ROD W/ CAP
N: 657599.3310
E: 524066.4090
ELEV. 1179.0860

MISSOURI STATE PLANE COORDINATES EAST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.0000 = MODIFIED GROUND COORDINATES

SALEM
REFERENCE POINTS
SHEET 1 OF 1

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

DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	14
COUNTY	DENT
JOB NO.	JCD0129
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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 MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, EAST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS NETWORK CONTROL CONTROL POINTS 100 -102 HORIZONTAL/VERTICAL USED
PROJECT PROJECTION FACTOR	1.0000

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BUNKER CORS ARP
CORS_ID	MOBE
PID	DN4498
LATITUDE	N37°27'19.28714"
LONGITUDE	W91°12'56.71473"
NORTHING (M)	180226.215
EASTING (M)	186675.255
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	1.0000

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 #400
N 662029.056 X 1.00000000 = N 662029.056
E 515022.421 X 1.00000000 = E 515022.421

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

	ROUTE 32/72 WEST			MODIFIED STATE PLANE (GROUND)				
SHEET NO	STATION	LOCATION	OFFSET (USFT)	NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	54+68.43	RT	3964.07	662029.056	515022.421	66.17	RR SPK	400
N/A	54+02.00	RT	1314.03	659378.539	514978.982	84.56	PK	401
N/A	53+32.02	LT	1341.27	656722.621	514938.879	127.85	TYPE A	402
N/A	25+05.98	RT	160.11	659149.974	520334.355	47.88	1" BAR	403
N/A	55+35.23	RT	6614.08	664679.563	515065.488	49.43	#5 RB .2 DEEP	404
ALIGNMENTS								
ROUTE 19 (S MAIN ST)								
N/A	0+00.00			661350.366	520173.289		POINT OF INTERSECTION	P.I.
4	6+25.70			660724.699	520166.425		POINT OF CURVATURE	P.C.
4	9+00.00			660501.885	520301.240		BEGINNING OF PROJECT	B.P.
4	9+23.10			660492.367	520322.282		POINT OF REVERSE CURVATURE	P.R.C.
4	12+18.39			660262.408	520478.788		STA. EQUATION BACK	B.K.
4	13+02.70			660262.408	520478.788		STA. EQUATION AHEAD	A.H.
4	13+02.70			660262.408	520478.788		POINT OF TANGENCY	P.T.
4	15+44.70			660020.409	520479.373		POINT OF CURVATURE	P.C.
4	17+36.00			659832.722	520511.472		POINT OF TANGENCY	P.T.
5	18+94.50			659683.103	520563.785		POINT OF CURVATURE	P.C.
5	22+94.50			659291.198	520558.890		POINT OF TANGENCY	P.T.
5	27+66.85			658849.351	520391.902		STA. EQUATION BACK	B.K.
5	27+65.90			658849.351	520391.902		STA. EQUATION AHEAD	A.H.
5	27+65.90			658849.351	520391.902		POINT OF CURVATURE	P.C.
6	31+01.35			658521.384	520330.078		POINT OF TANGENCY	P.T.
6	37+58.63			657864.145	520322.649		END OF PROJECT	E.P.
6	37+58.63			657864.145	520322.649		POINT OF INTERSECTION	P.I.
ROUTE 32/72 EAST (SCENIC RIVERS BLVD)								
7	0+00.00			657864.145	520322.649		POINT OF INTERSECTION	P.I.
7	0+00.00			657864.145	520322.649		BEGINNING OF PROJECT	B.P.
9	27+00.00			657747.836	523020.143		END OF PROJECT	E.P.
N/A	30+14.59			657734.284	523334.442		POINT OF INTERSECTION	P.I.
ROUTE 32/72 WEST (SCENIC RIVERS BLVD)								
10	0+00.00			657864.145	520322.649		POINT OF INTERSECTION	P.I.
10	0+00.00			657864.145	520322.649		BEGINNING OF PROJECT	B.P.
12	24+13.00			657965.132	517911.763		POINT OF TANGENCY	P.T.
12	32+85.00			658003.116	517040.589		POINT OF TANGENCY	P.T.
13	41+00.00			658025.855	516225.908		END OF PROJECT	E.P.
N/A	51+46.47			658055.051	515179.846		POINT OF TANGENCY	P.T.
N/A	67+17.91			658120.167	513609.751		POINT OF INTERSECTION	P.I.

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/19/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 15
COUNTY DENT
JOB NO. JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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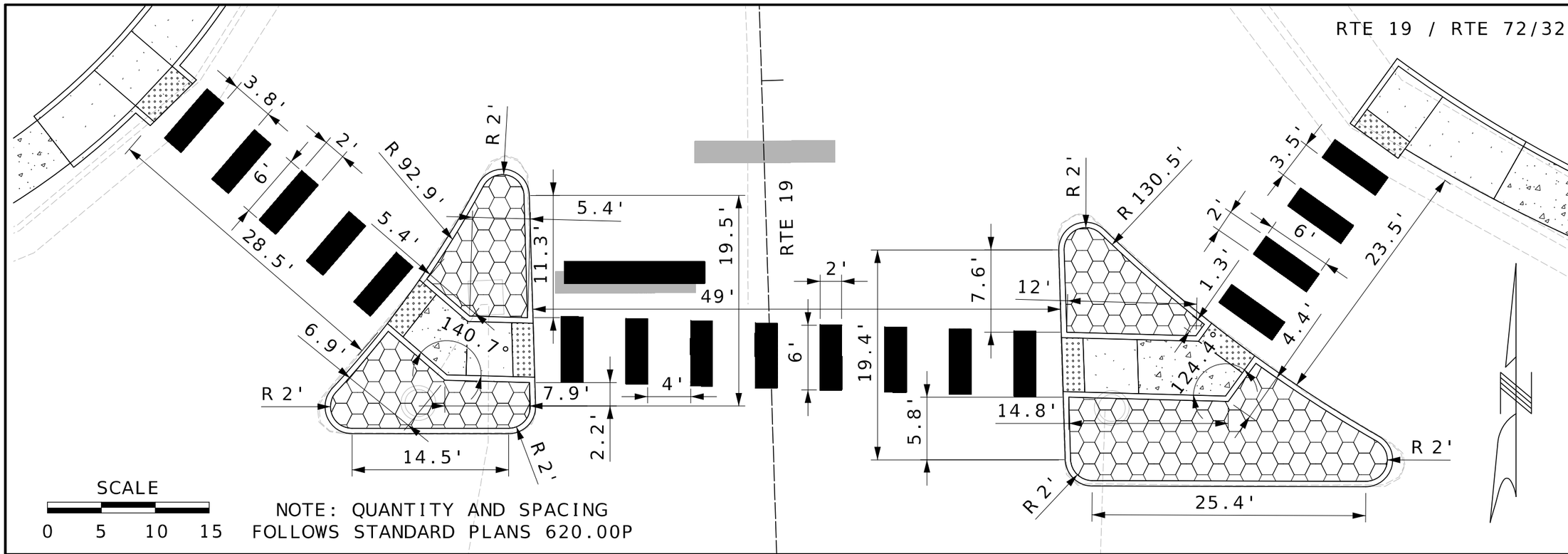

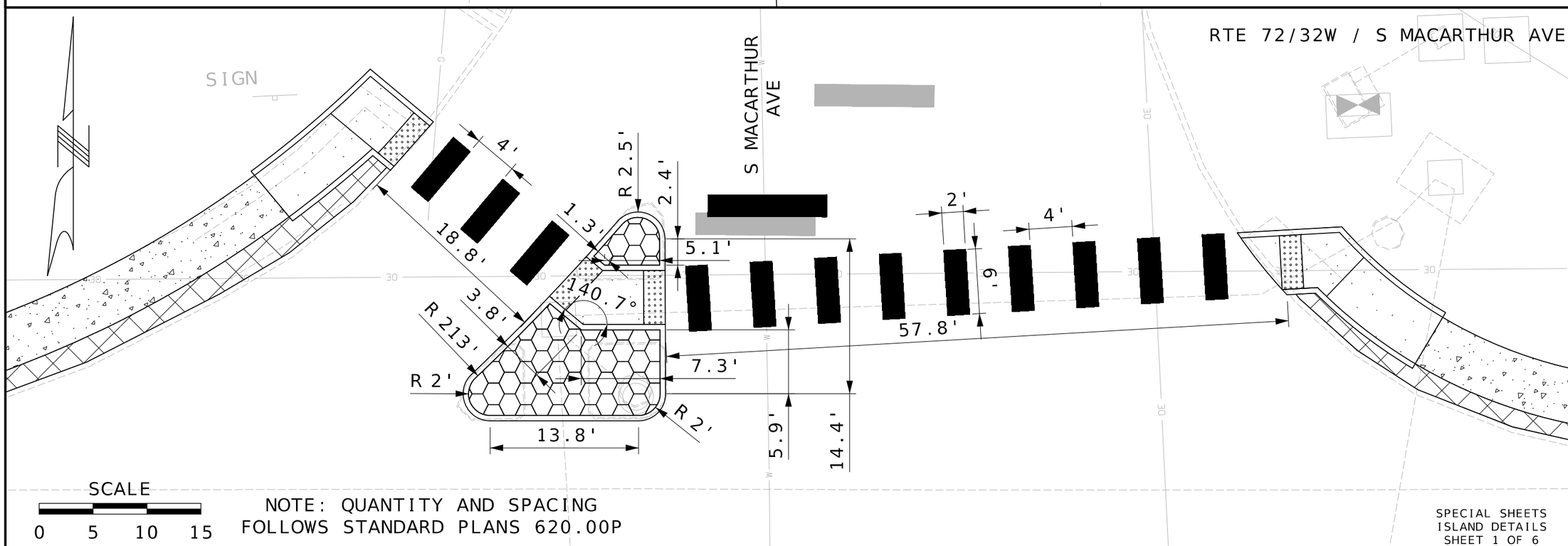

SPECIAL SHEETS
ISLAND DETAILS
SHEET 1 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	16
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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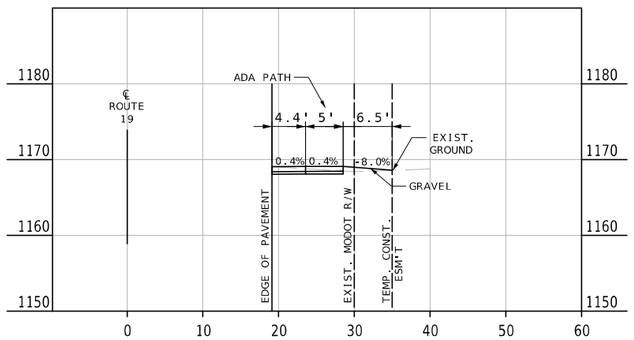
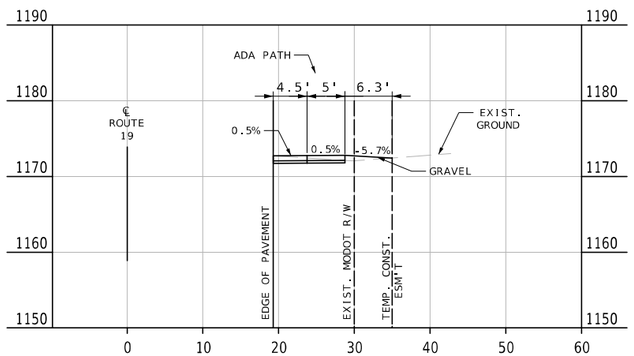
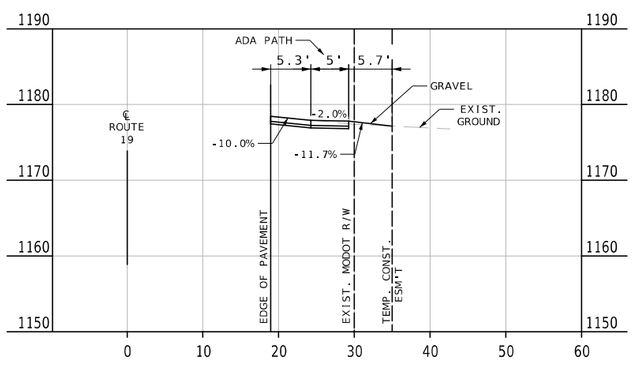
REV.



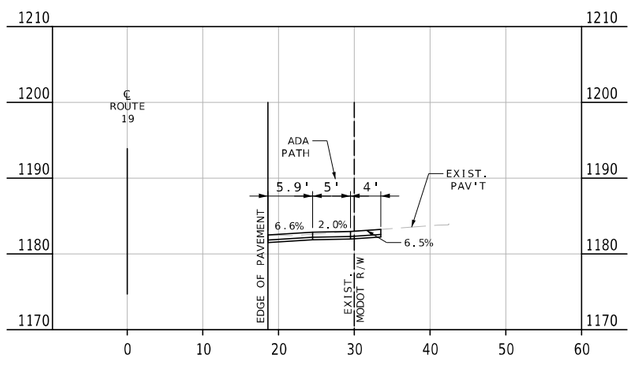
STA. 22+19.60 RT
8" PCC CE
59' WIDE
ROUTE 19 (S MAIN ST)



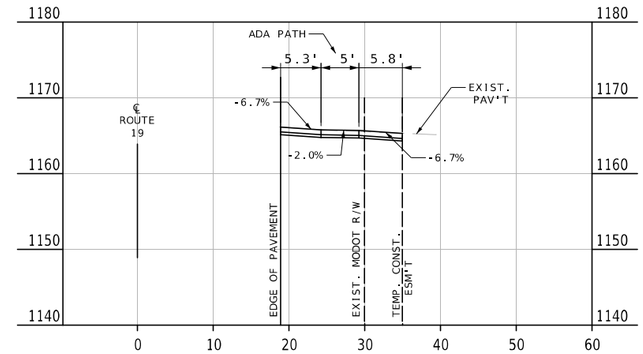
STA. 21+18.33 RT
8" PCC CE
55' WIDE
ROUTE 19 (S MAIN ST)



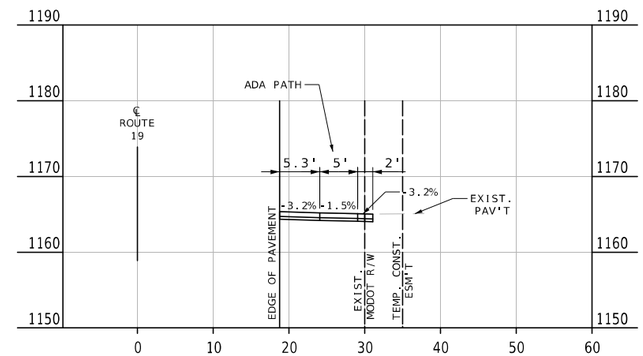
STA. 19+51.18 RT
8" PCC CE
50' WIDE
ROUTE 19 (S MAIN ST)



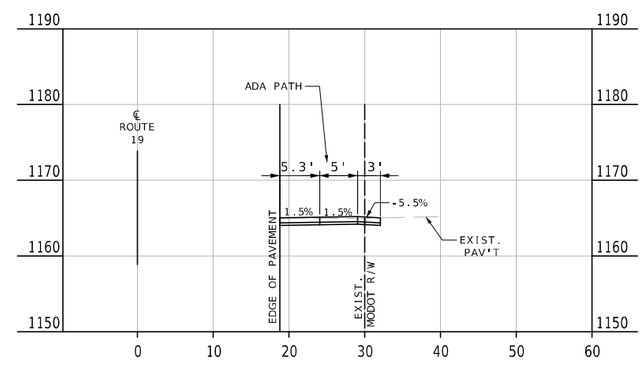
W CONDREY ST
STA. 15+49.41 RT
8" PCC CE
28' WIDE
ROUTE 19 (S MAIN ST)



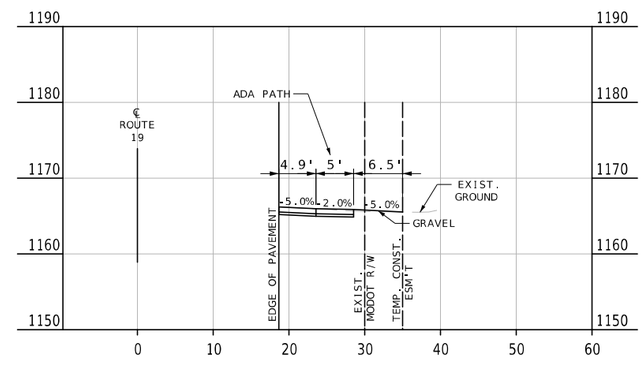
STA. 26+61.38 RT
8" PCC CE
60' WIDE
ROUTE 19 (S MAIN ST)



STA. 25+26.45 RT
8" PCC CE
39' WIDE
ROUTE 19 (S MAIN ST)



W FRANKLIN ST
STA. 24+54.80 RT
8" PCC CE
50' WIDE
ROUTE 19 (S MAIN ST)



STA. 23+30.48 RT
8" PCC CE
60' WIDE
ROUTE 19 (S MAIN ST)

SPECIAL SHEETS
DRIVE PROFILES
SHEET 2 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

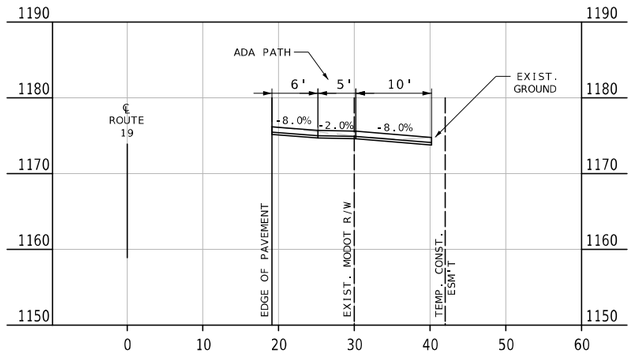
DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	17
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

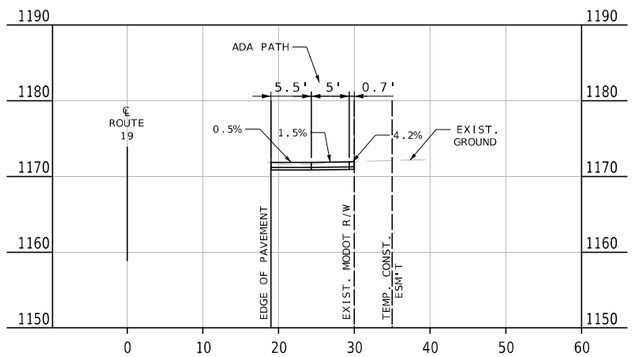
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

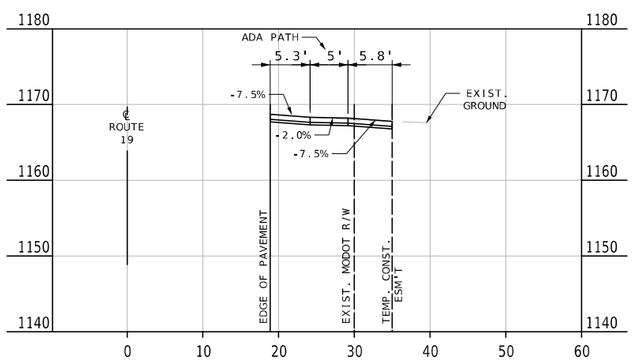
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



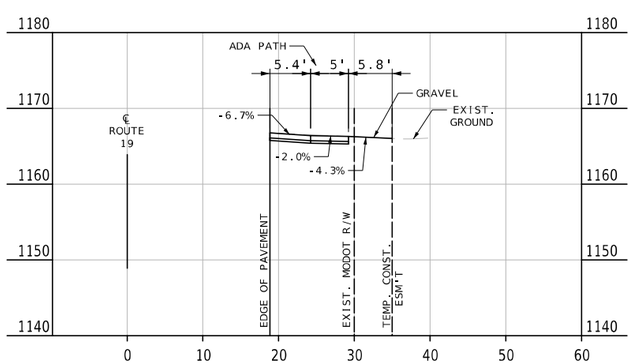
STA. 29+93.63 RT
8" PCC CE
59' WIDE
ROUTE 19 (S MAIN ST)



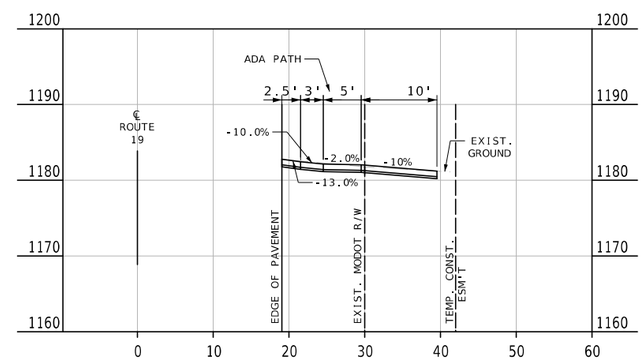
STA. 28+94.92 RT
8" PCC CE
52' WIDE
ROUTE 19 (S MAIN ST)



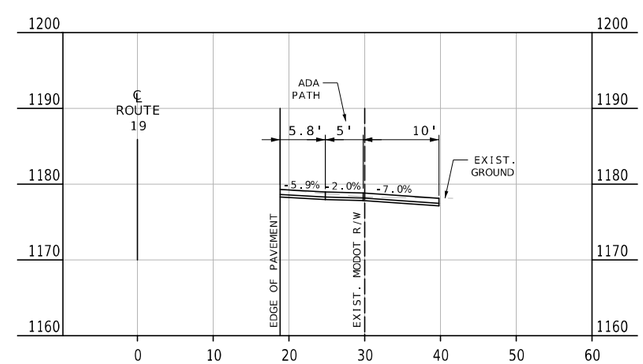
STA. 27+95.21 RT
8" PCC CE
60' WIDE
ROUTE 19 (S MAIN ST)



STA. 27+14.38 RT
8" PCC CE
25' WIDE
ROUTE 19 (S MAIN ST)



STA. 31+57.14 RT
8" PCC CE
45' WIDE
ROUTE 19 (S MAIN ST)



W HUNT ST
STA. 30+65.31 RT
8" PCC CE
28' WIDE
ROUTE 19 (S MAIN ST)

SPECIAL SHEETS
DRIVE PROFILES
SHEET 3 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

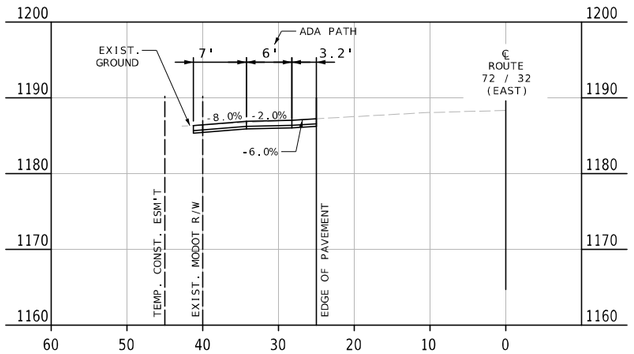
DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	18
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

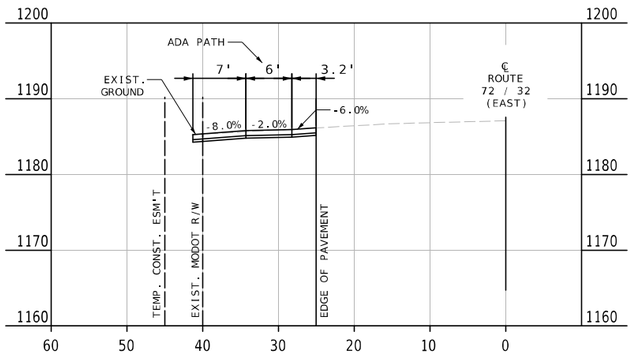
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

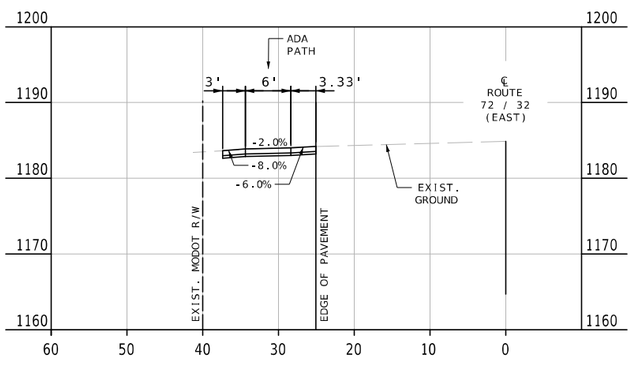
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



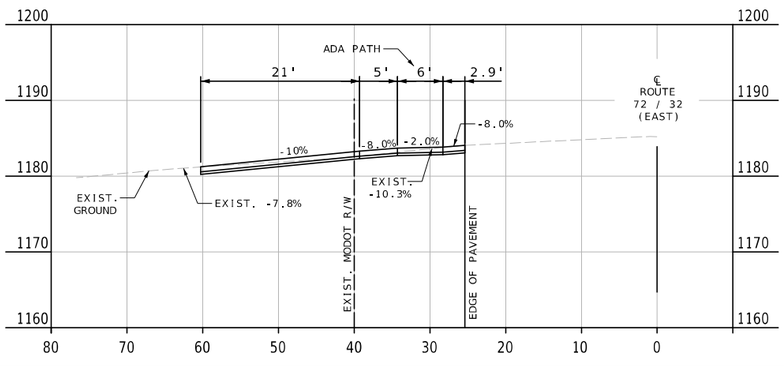
STA. 8+01.62 LT
8" PCC CE
26' WIDE
ROUTE 72 / 32 (EAST)



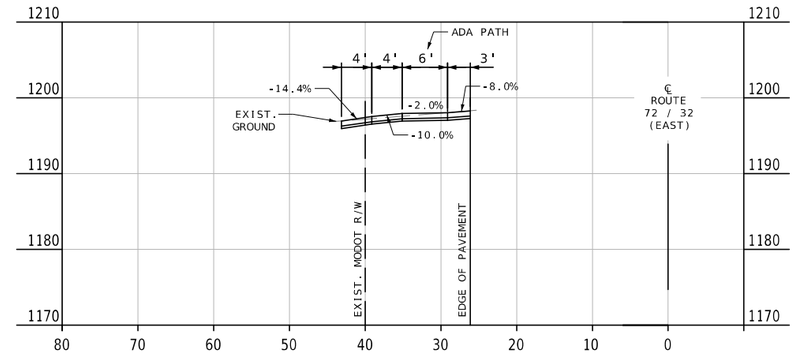
STA. 7+25.41 LT
8" PCC CE
26' WIDE
ROUTE 72 / 32 (EAST)



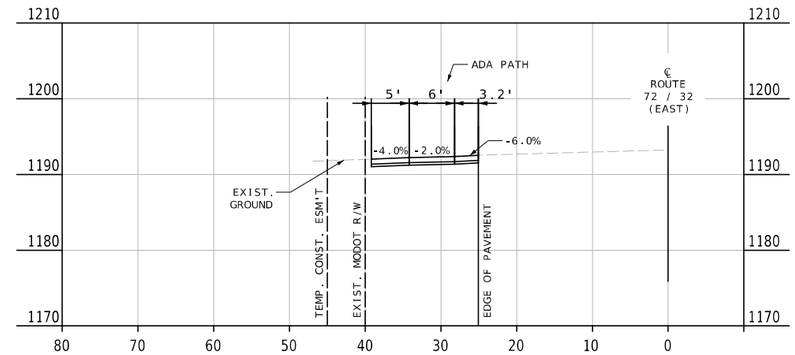
STA. 5+39.92 LT
8" PCC CE
21' WIDE
ROUTE 72 / 32 (EAST)



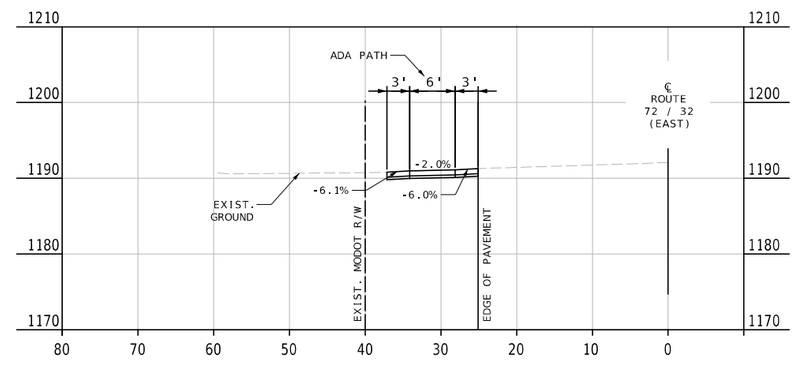
S WATER ST
STA. 3+32.79 LT
8" PCC CE
27' WIDE
ROUTE 72 / 32 (EAST)



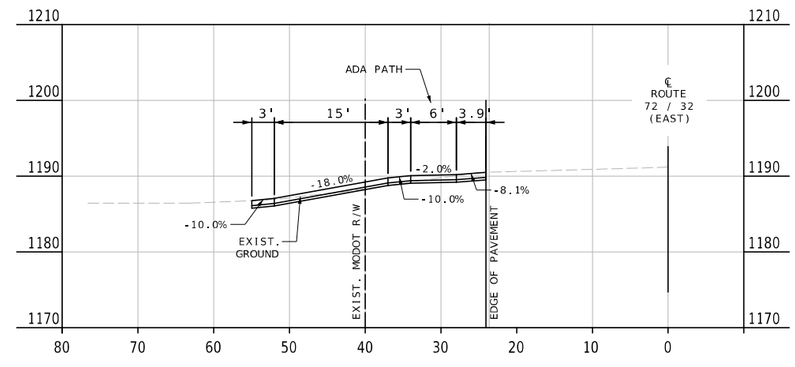
S PERSHING ST
STA. 13+63.63 LT
8" PCCP CE
36' WIDE
ROUTE 72 / 32 (EAST)



STA. 11+05.54 LT
8" PCC CE
29' WIDE
ROUTE 72 / 32 (EAST)



STA. 10+47.22 LT
8" PCC CE
27' WIDE
ROUTE 72 / 32 (EAST)



SOUTH OAK STREET
STA. 10+03.82 LT
8" PCC CE
25' WIDE
ROUTE 72 / 32 (EAST)

SPECIAL SHEETS
DRIVE PROFILES
SHEET 4 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

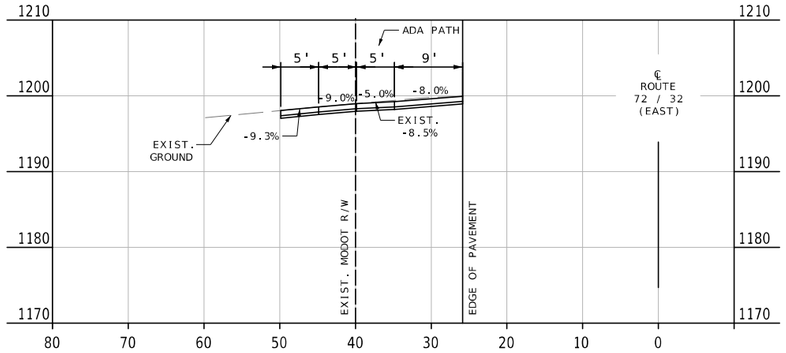
DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	19
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

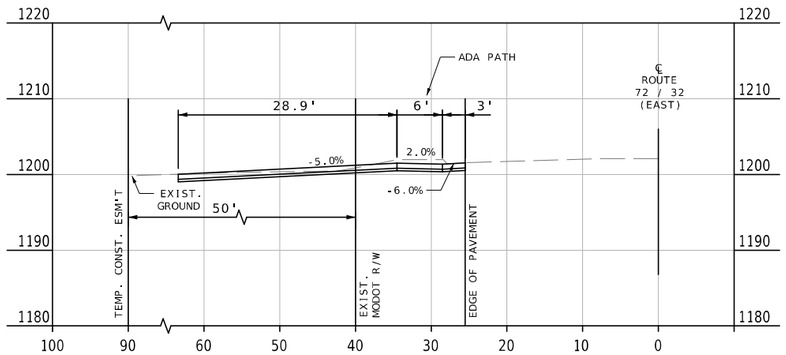
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

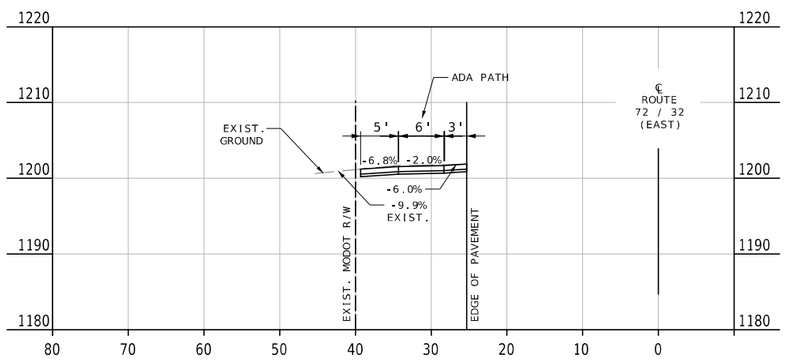
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



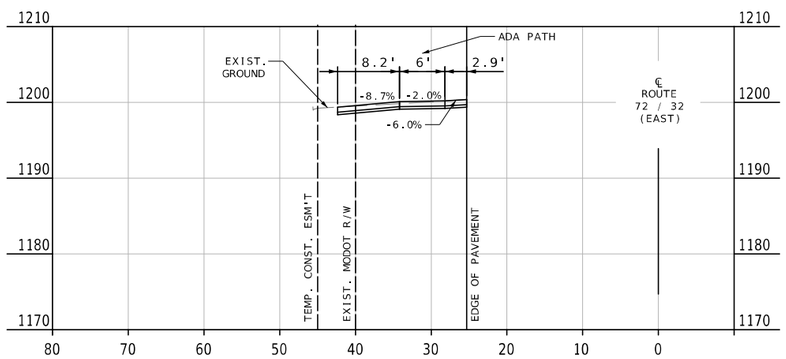
S WARFEL ST
STA. 20+01.05 LT
8" PCC CE
24' WIDE
ROUTE 72 / 32 (EAST)



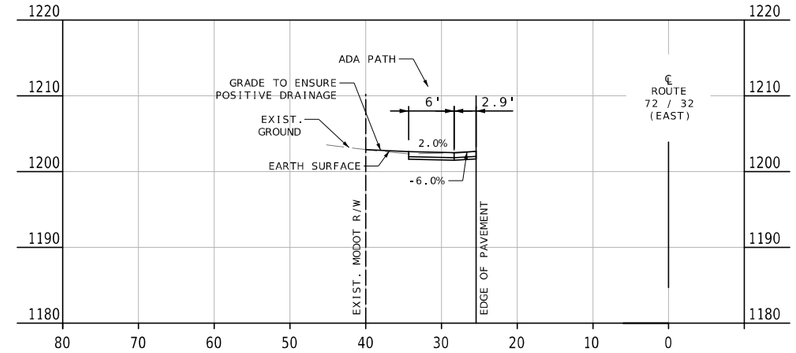
STA. 18+29.94 LT
8" PCC CE
20' WIDE
ROUTE 72 / 32 (EAST)



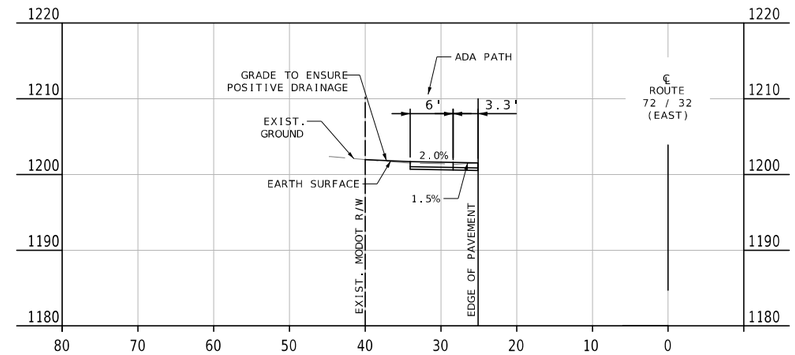
STA. 17+88.04 LT
8" PCC CE
18' WIDE
ROUTE 72 / 32 (EAST)



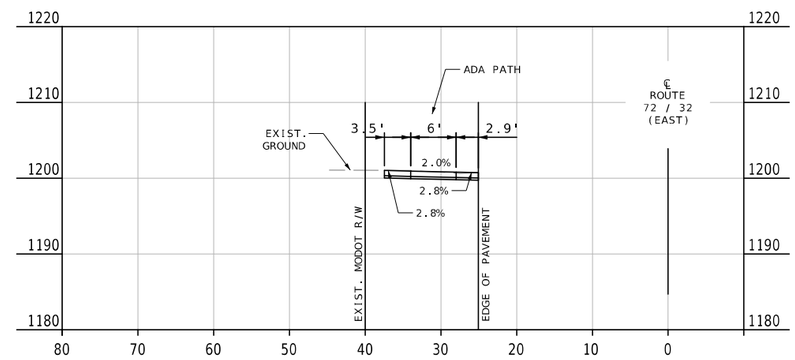
STA. 14+78.12 LT
8" PCC CE
30' WIDE
ROUTE 72 / 32 (EAST)



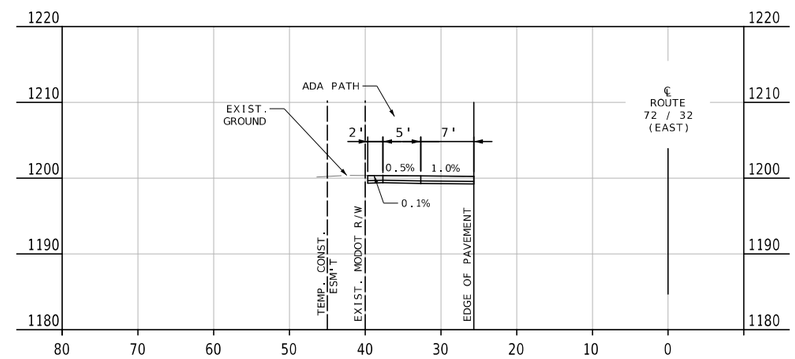
STA. 23+86.38 LT
8" PCC CE
20' WIDE
ROUTE 72 / 32 (EAST)



STA. 23+12.55 LT
8" PCC CE
20' WIDE
ROUTE 72 / 32 (EAST)



STA. 22+43.13 LT
8" PCC CE
21' WIDE
ROUTE 72 / 32 (EAST)



STA. 21+94.03 LT
8" PCC CE
36' WIDE
ROUTE 72 / 32 (EAST)

SPECIAL SHEETS
DRIVE PROFILES
SHEET 5 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

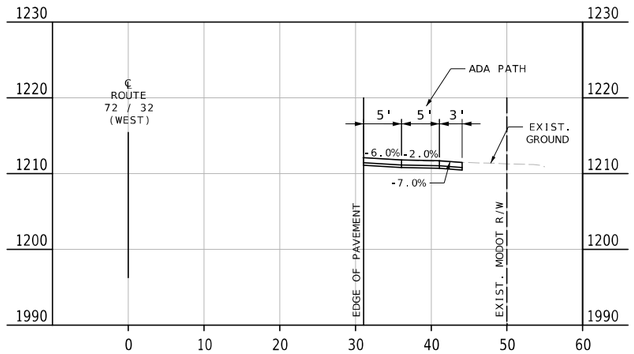
DATE PREPARED	11/14/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	20
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

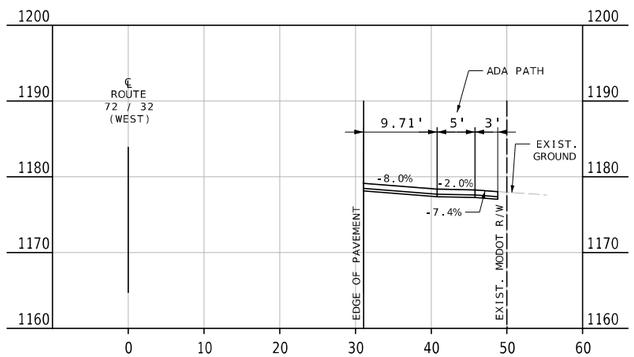
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

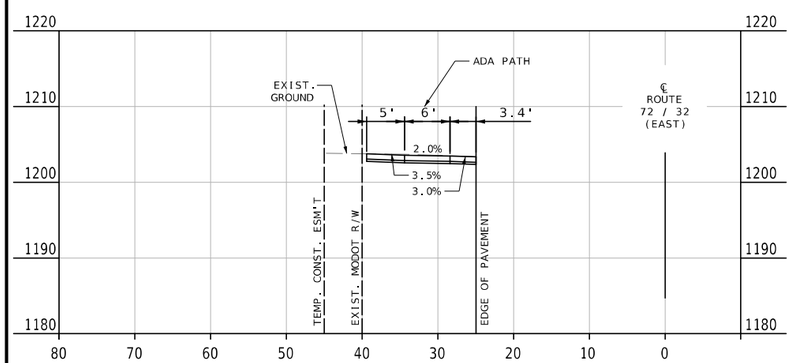
Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



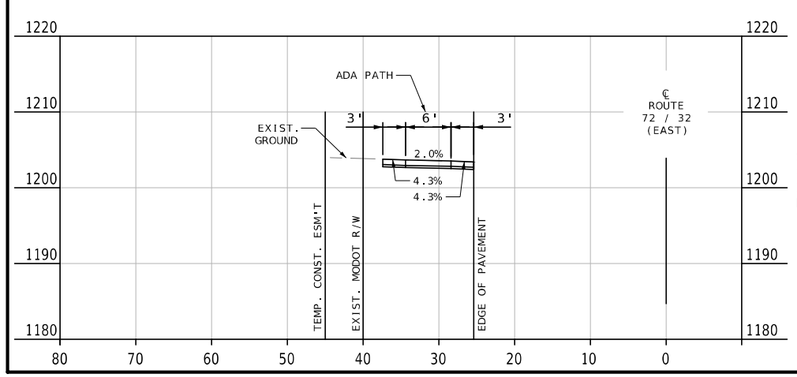
WALKER ST
STA. 22+81.16 RT
8" PCC CE
30' WIDE
ROUTE 72 / 32 (WEST)



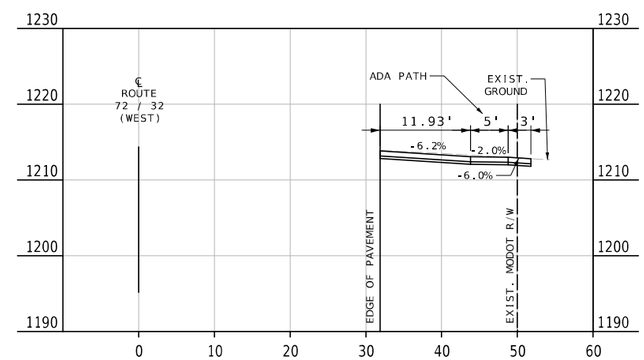
S JACKSON ST
STA. 6+85.53 RT
8" PCC CE
33' WIDE
ROUTE 72 / 32 (WEST)



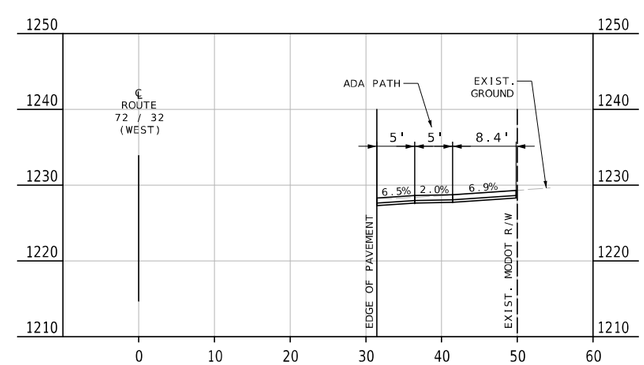
STA. 25+33.42 LT
8" PCC CE
26' WIDE
ROUTE 72 / 32 (EAST)



STA. 24+91.68 LT
8" PCC CE
22' WIDE
ROUTE 72 / 32 (EAST)



S SLIGO ST
STA. 36+86.54 RT
8" PCC CE
30' WIDE
ROUTE 72 / 32 (WEST)



STA. 28+60.22 LT
8" PCC CE
41' WIDE
ROUTE 72 / 32 (WEST)

SPECIAL SHEETS
DRIVE PROFILES
SHEET 6 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

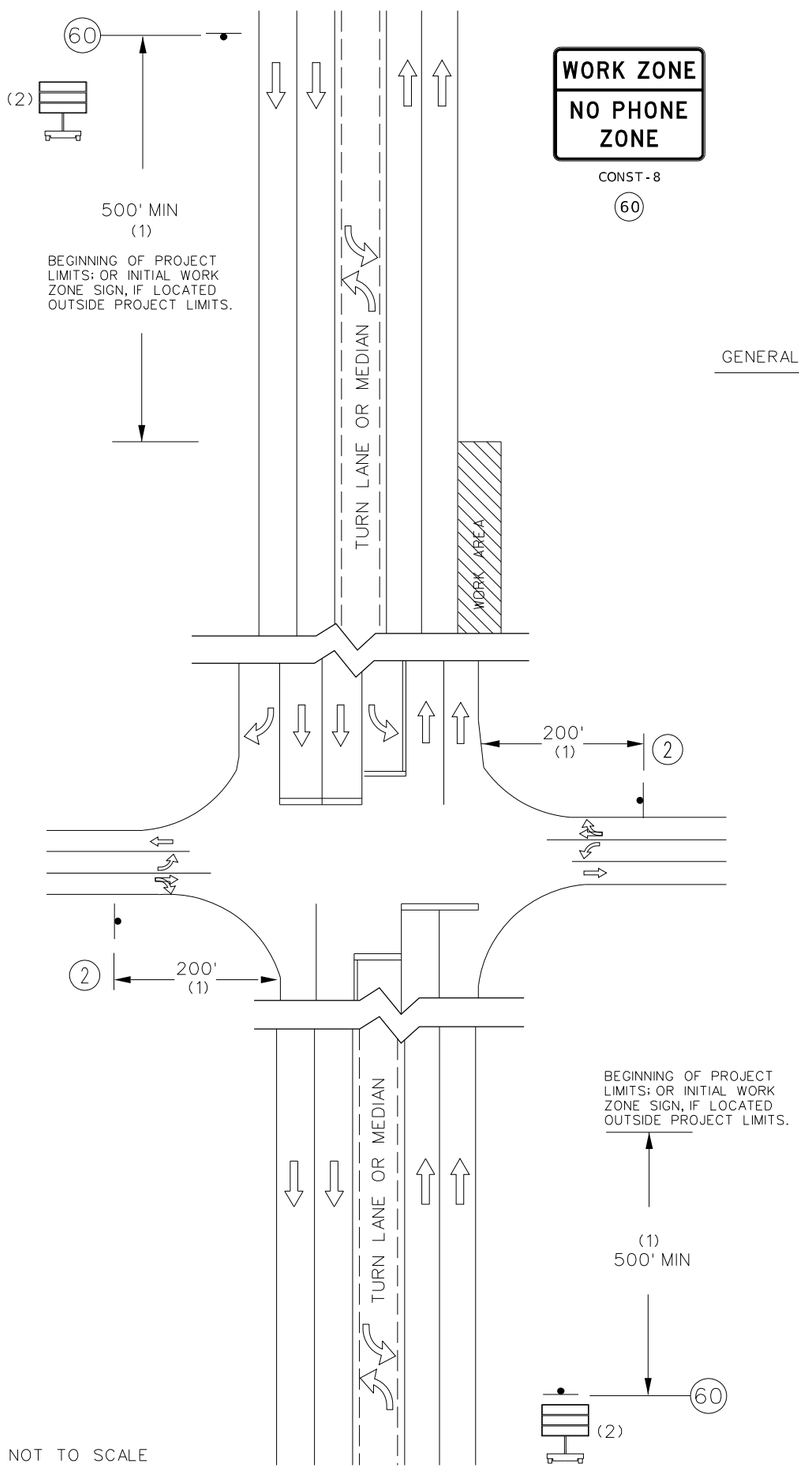
DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	21
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



NOT TO SCALE

CONST-8

60

W020-1
48"X48"

2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- CHANGEABLE MESSAGE SIGN
- WORK AREA
- TRAFFIC CIRCULATION

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED. NO DIRECT PAY
2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
4. 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.
5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
7. 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.
8. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL UNNECESSARY TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
9. 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).
10. 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.
11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED UNLESS OTHERWISE SHOWN IN THE PLANS AS BEING CLOSED DURING CONSTRUCTION.
12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1FT PROVIDED. THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGN SHALL BE MOUNTED AT 7 FT.
14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
15. ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
16. FOR A SPEED OF 0-35MPH, SPACING BETWEEN SIGNS SHALL BE 200 FT.
17. HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

(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) CHANGEABLE MESSAGE SIGN SHALL BE USED AT THE OPTION OF THE ENGINEER AND PLACED AS DIRECTED, AND SHALL INCLUDE 5 CHANNELIZERS AT 20' SPACING FOR DELINEATION.

BEGIN/END OF PROJECT

MULTI-LANE

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TRAFFIC CONTROL
SHEET 1 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER
PE-2002201667
PROFESSIONAL ENGINEER

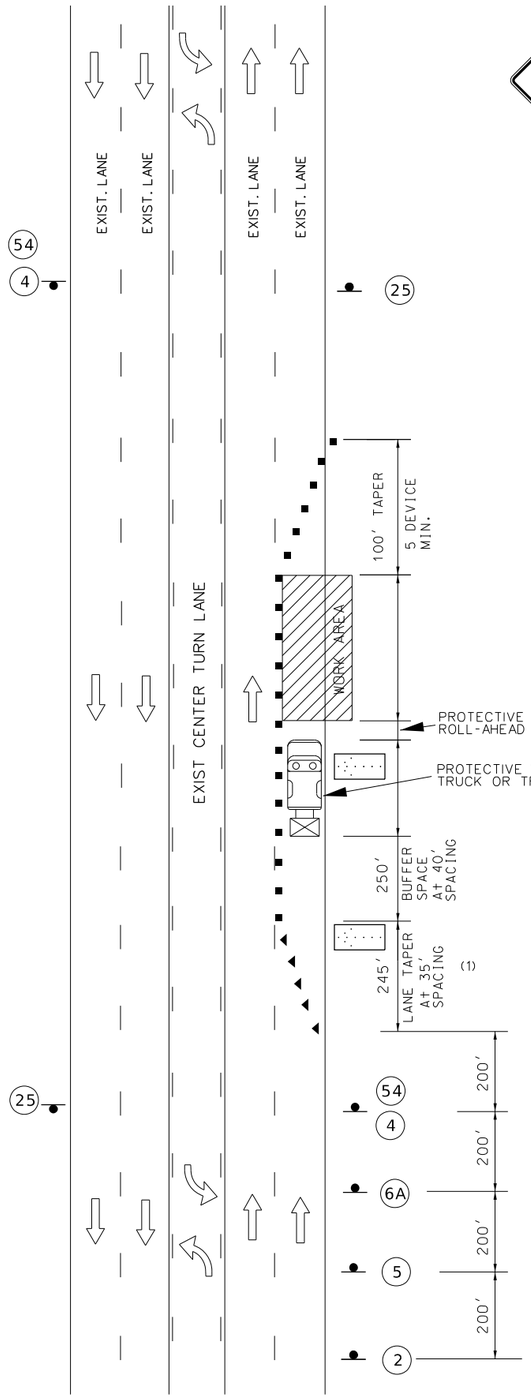
10/23/2025 5:08:16 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	9/30/2025
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	22
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

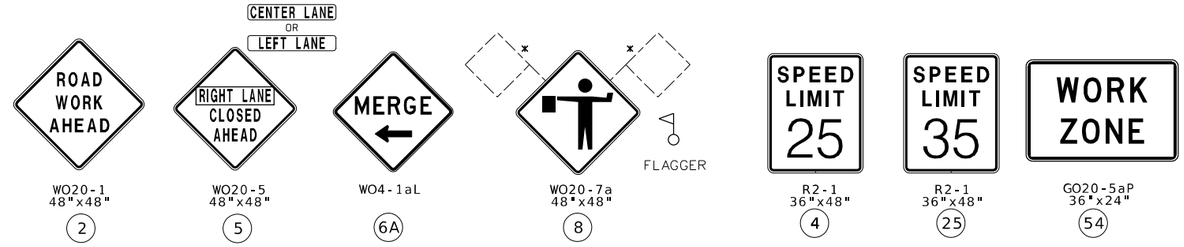
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



MULTI-LANE
OUTSIDE LANE CLOSURE - DAY OR NIGHT

NOT TO SCALE



* SIGN W020-7A (FLAGGER SYMBOL) FLAGS ARE INCIDENTAL TO THE SIGN. NO DIRECT PAY.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- CHANNELIZER (TRIM LINE)
- FLASHING ARROW PANEL
- WORK AREA
- ADA COMPLIANT MOVABLE BARRICADE
- DIRECTIONAL INDICATOR BARRICADE
- TMA
- TRAFFIC CIRCULATION

NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

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 POSTED SPEEDS OF UP TO 35 MPH SIGN SPACING MAY BE REDUCED TO A MINIMUM OF 100 FEET AS CONDITIONS REQUIRE.

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.

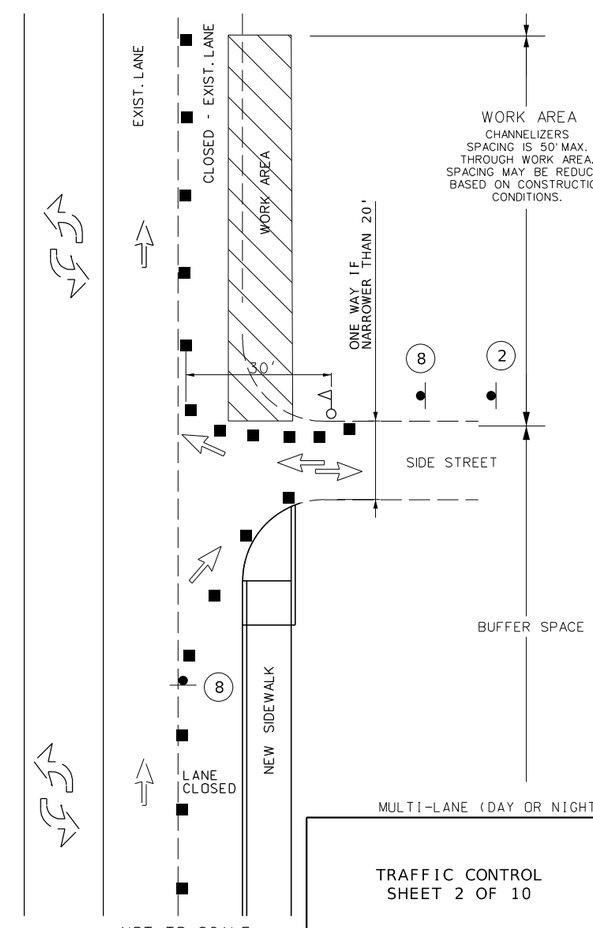
WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

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 MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

SIDE STREET FLAGGING DETAIL



NOT TO SCALE

TRAFFIC CONTROL
SHEET 2 OF 10

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2001201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:58 PM
Derek B. Koestel - Civil
MO PE-200201667

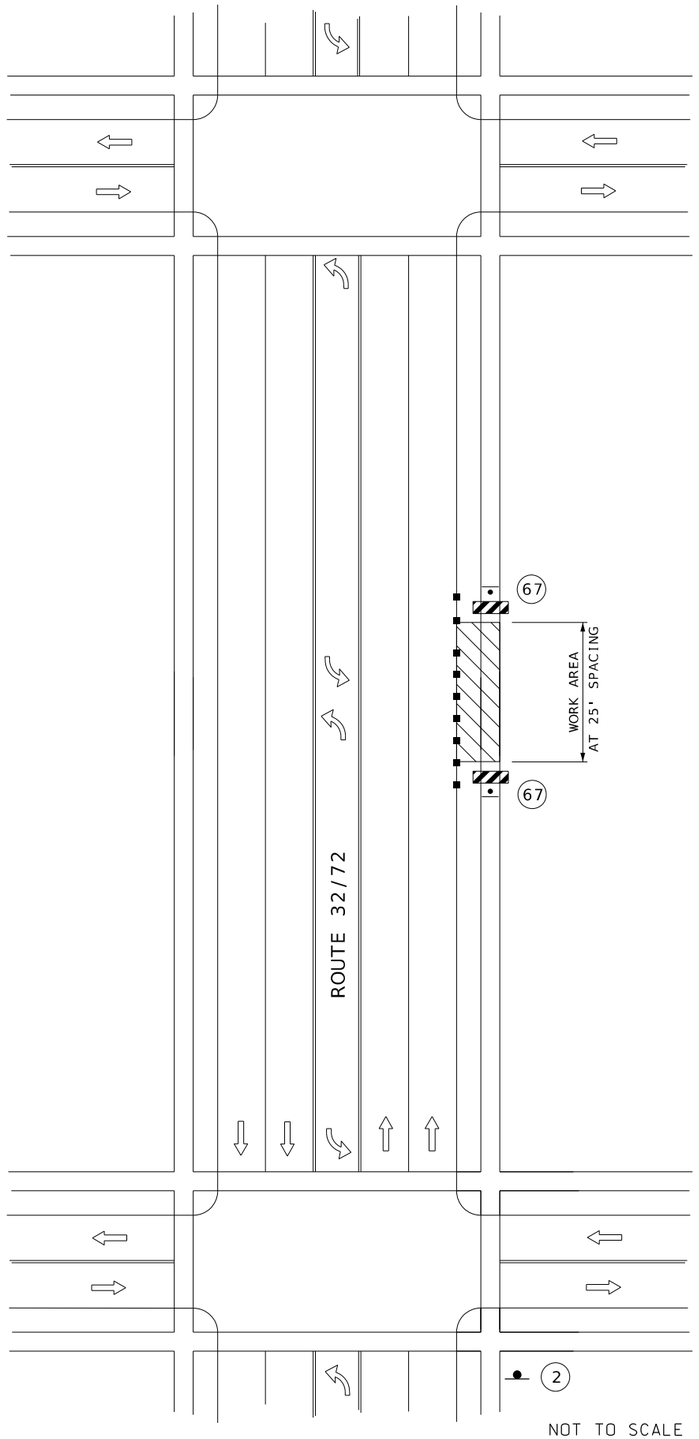
DATE PREPARED	
9/30/2025	
ROUTE VAR	STATE MO
DISTRICT CD	SHEET NO. 23
COUNTY DENT	
JOB NO. JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

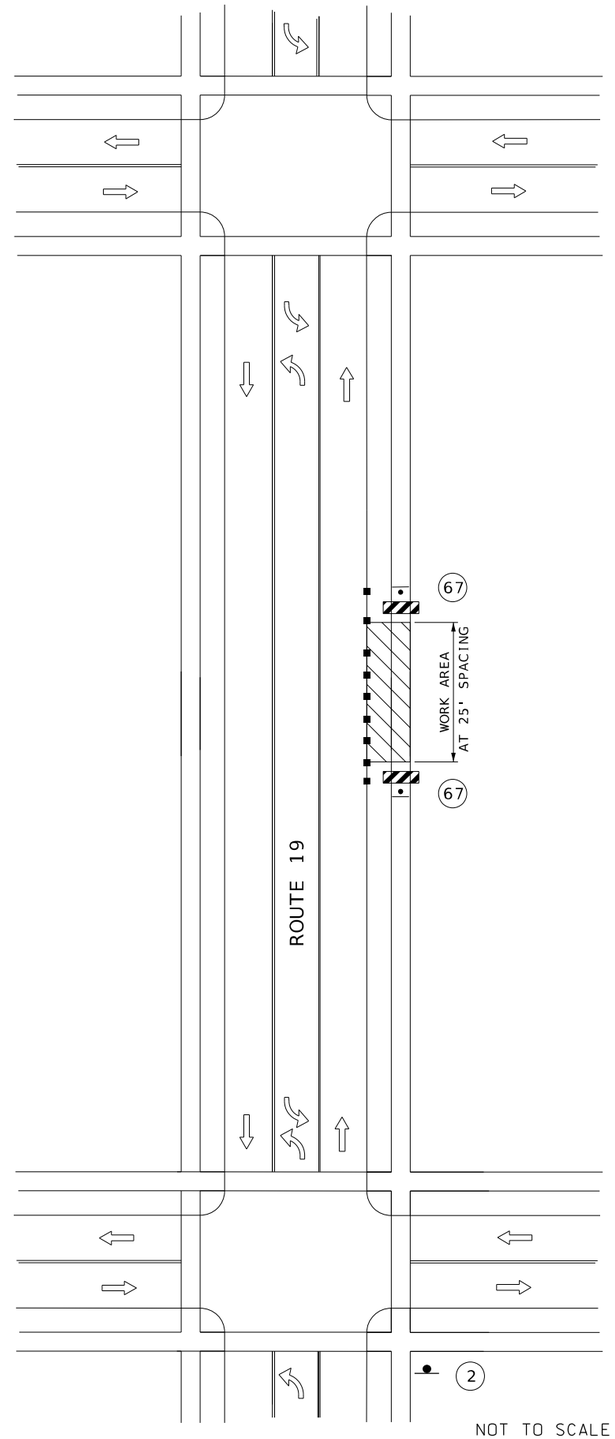
EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SIDEWALK CLOSURE (ROUTE 32/72)



NOT TO SCALE

SIDEWALK CLOSURE (ROUTE 19/S MAIN ST)



NOT TO SCALE

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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.

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

R9-9
24"x12"
67

W020-1
48"X48"
2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- ADA COMPLIANT MOVABLE BARRICADE
- CHANNELIZER (TRIM LINE)
- WORK AREA
- TRAFFIC CIRCULATION

TRAFFIC CONTROL
SHEET 3 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:58 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	
9/30/2025	
ROUTE: VAR	STATE: MO
DISTRICT: CD	SHEET NO.: 24
COUNTY: DENT	
JOB NO.: JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

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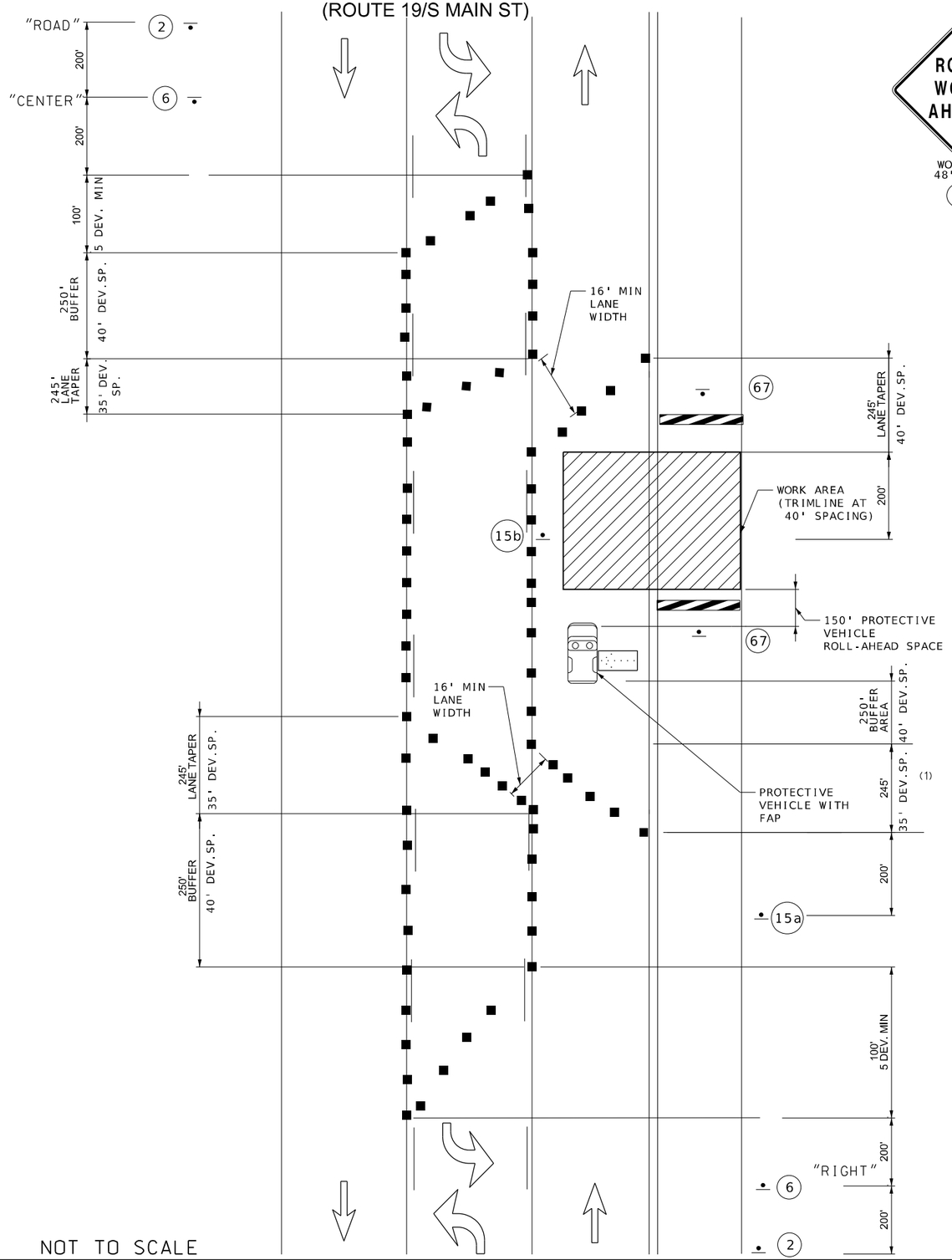
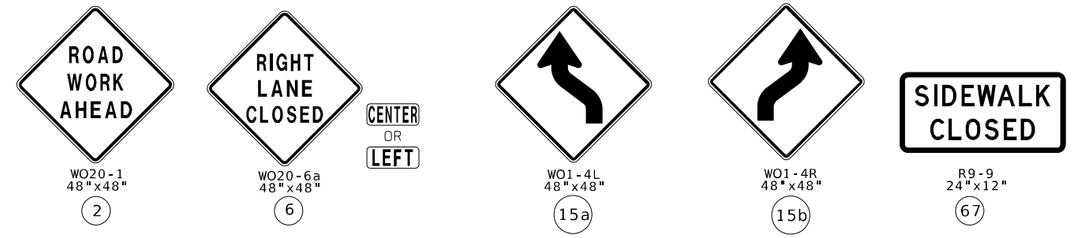
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SINGLE LANE CLOSURE WITH A TWO-WAY LEFT TURN LANE
(ROUTE 19/S MAIN ST)



NOT TO SCALE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIMLINES)
- FLASHING ARROW PANEL
- WORK AREA
- ADA COMPLIANT BARRICADES
- PROTECTIVE VEHICLE
- TRAFFIC CIRCULATION

NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

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 POSTED SPEEDS OF UP TO 35 MPH SIGN SPACING MAY BE REDUCED TO A MINIMUM OF 100 FEET AS CONDITIONS REQUIRE.

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.

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 MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

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TRAFFIC CONTROL
SHEET 4 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER
10/23/2025 5:08:58 PM
Derek B. Koestel - Civil
MO PE-200201667

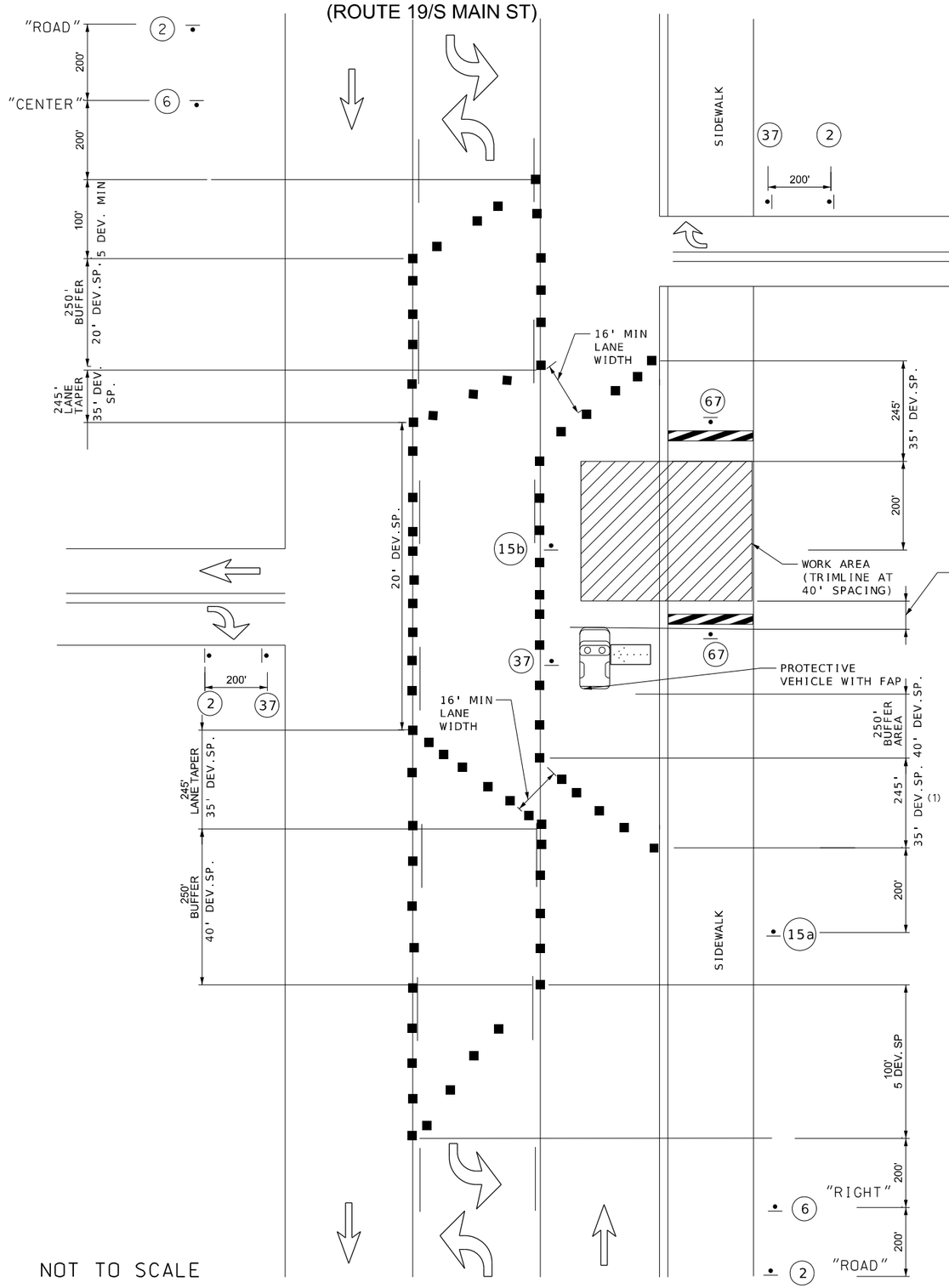
DATE PREPARED	9/30/2025
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	25
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

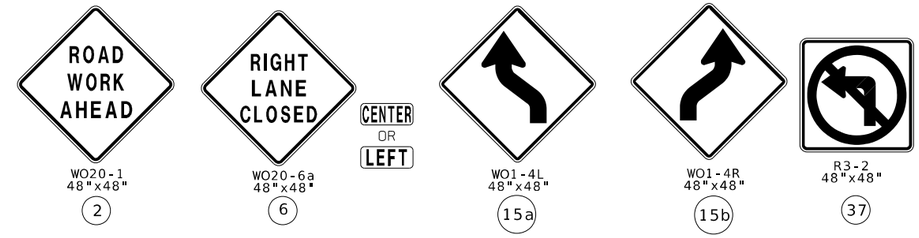
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

SINGLE LANE CLOSURE WITH A TWO-WAY LEFT TURN LANE OR ENTRANCES
(ROUTE 19/S MAIN ST)



NOT TO SCALE



WO20-1 48"x48" (2) | WO20-6a 48"x48" (6) | WO1-4L 48"x48" (15a) | WO1-4R 48"x48" (15b) | R3-2 48"x48" (37)

R9-9 24"x12" (67)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIMLINES)
- WORK AREA
- ADA COMPLIANT MOVABLE BARRICADES
- PROTECTIVE VEHICLE
- TRAFFIC CIRCULATION

NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

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 POSTED SPEEDS OF UP TO 35 MPH SIGN SPACING MAY BE REDUCED TO A MINIMUM OF 100 FEET AS CONDITIONS REQUIRE.

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.

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 MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

DISCLAIMER
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TRAFFIC CONTROL
SHEET 5 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:59 PM
Derek B. Koestel - Civil
MO PE-200201667

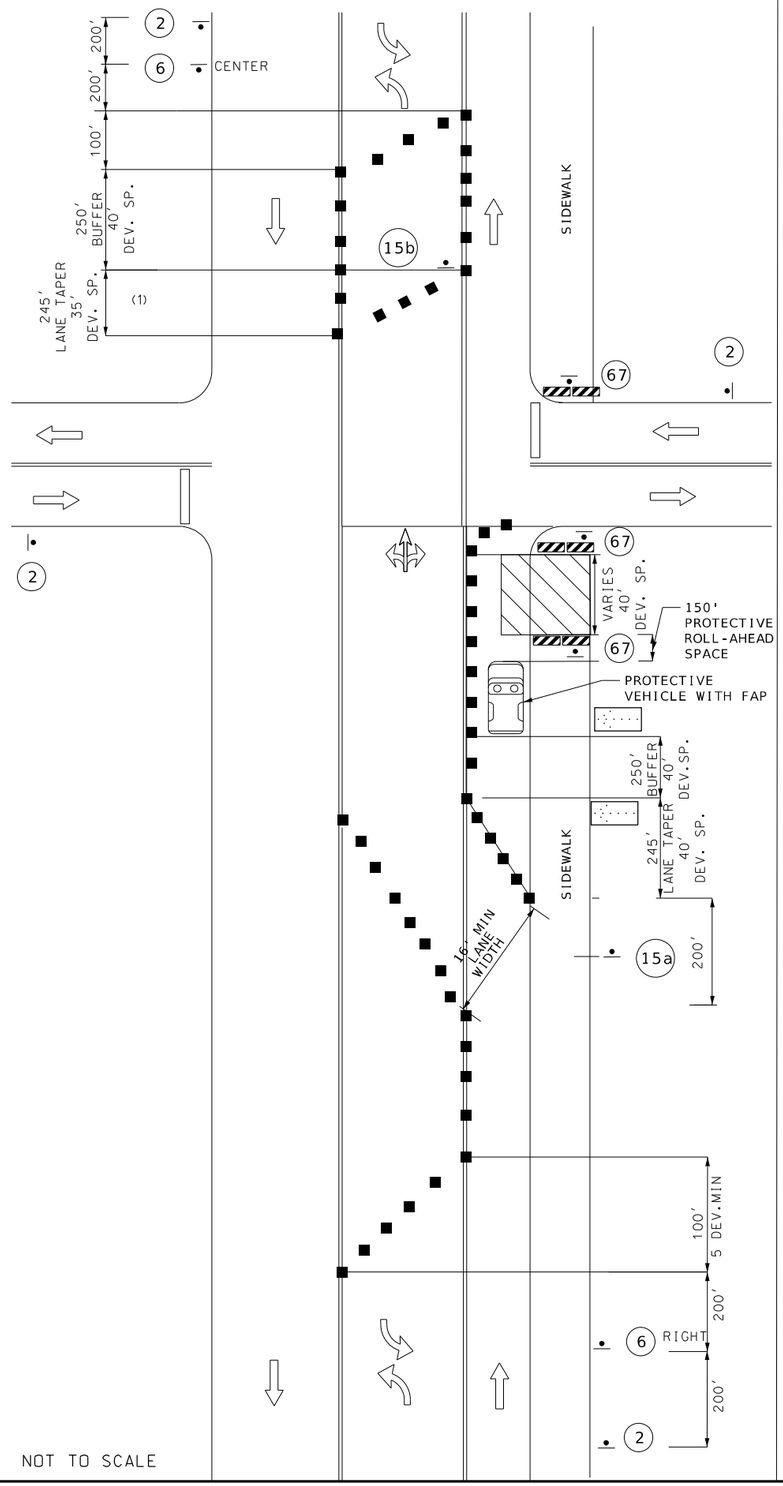
DATE PREPARED	
9/30/2025	
ROUTE: VAR	STATE: MO
DISTRICT: CD	SHEET NO.: 26
COUNTY: DENT	
JOB NO.: JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

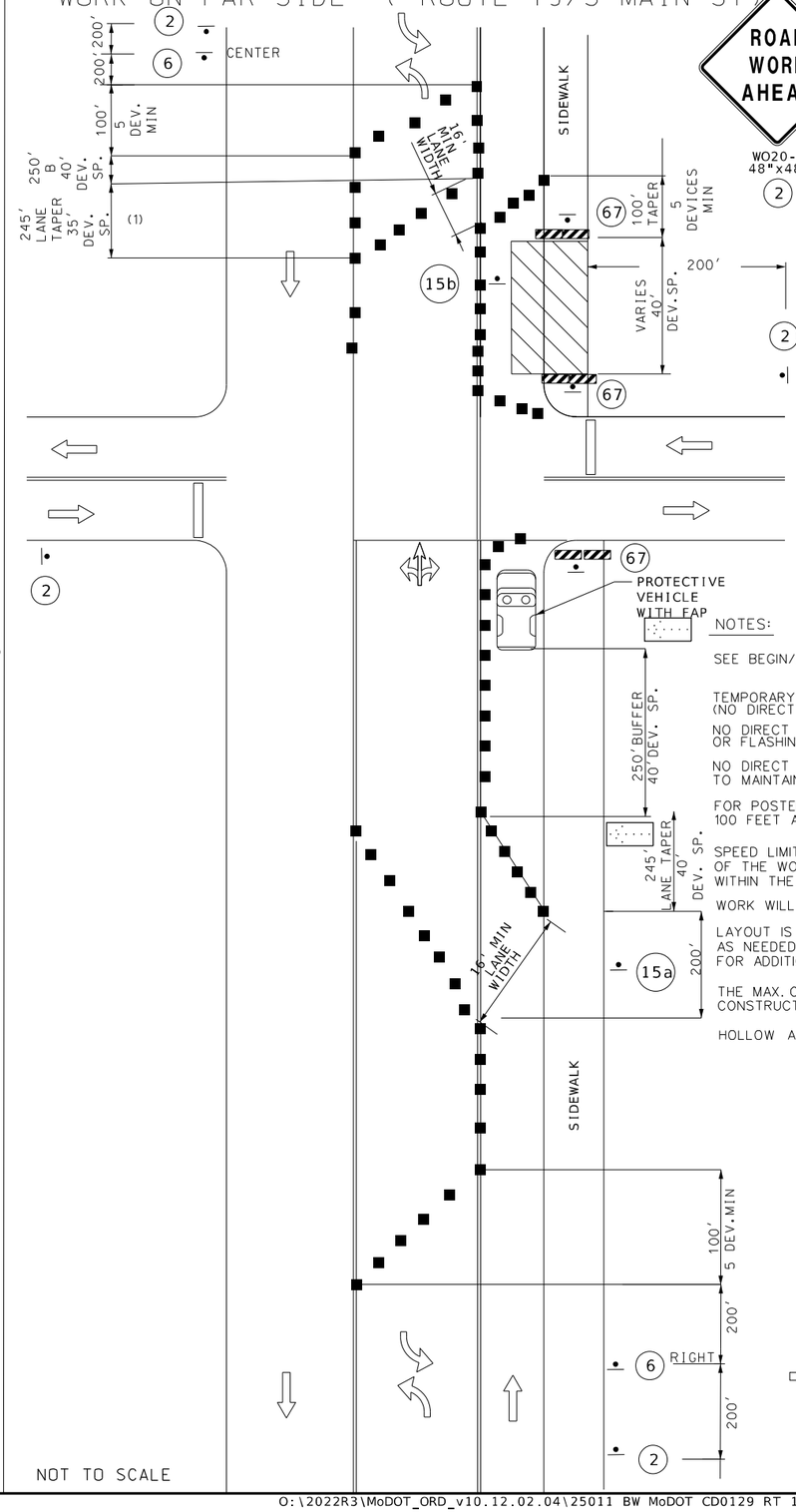
EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

RIGHT LANE CLOSURE AT INTERSECTION
WORK ON NEAR SIDE (ROUTE 19/S MAIN ST)

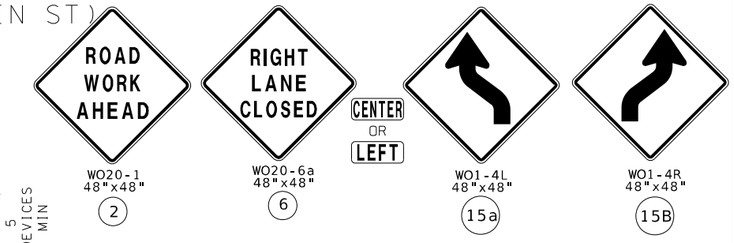


NOT TO SCALE

RIGHT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE (ROUTE 19/S MAIN ST)



NOT TO SCALE



WO20-1 48"x48" (2)

WO20-6a 48"x48" (6)

WO1-4L 48"x48" (15a)

WO1-4R 48"x48" (15B)

R9-9 24"x12" (67)

DISCLAIMER
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NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

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 POSTED SPEEDS OF UP TO 35 MPH SIGN SPACING MAY BE REDUCED TO A MINIMUM OF 100 FEET AS CONDITIONS REQUIRE

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.

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 MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- CHANNELIZER (TRIM LINE)
- ARROW PANEL
- WORK AREA
- ADA COMPLIANT MOVABLE BARRICADES
- DIRECTIONAL INDICATOR BARRICADE
- PROTECTIVE VEHICLE
- TRAFFIC CIRCULATION
- EXISTING STOP BAR

TRAFFIC CONTROL
SHEET 6 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:59 PM
Derek B. Koestel - Civil
MO PE-200201667

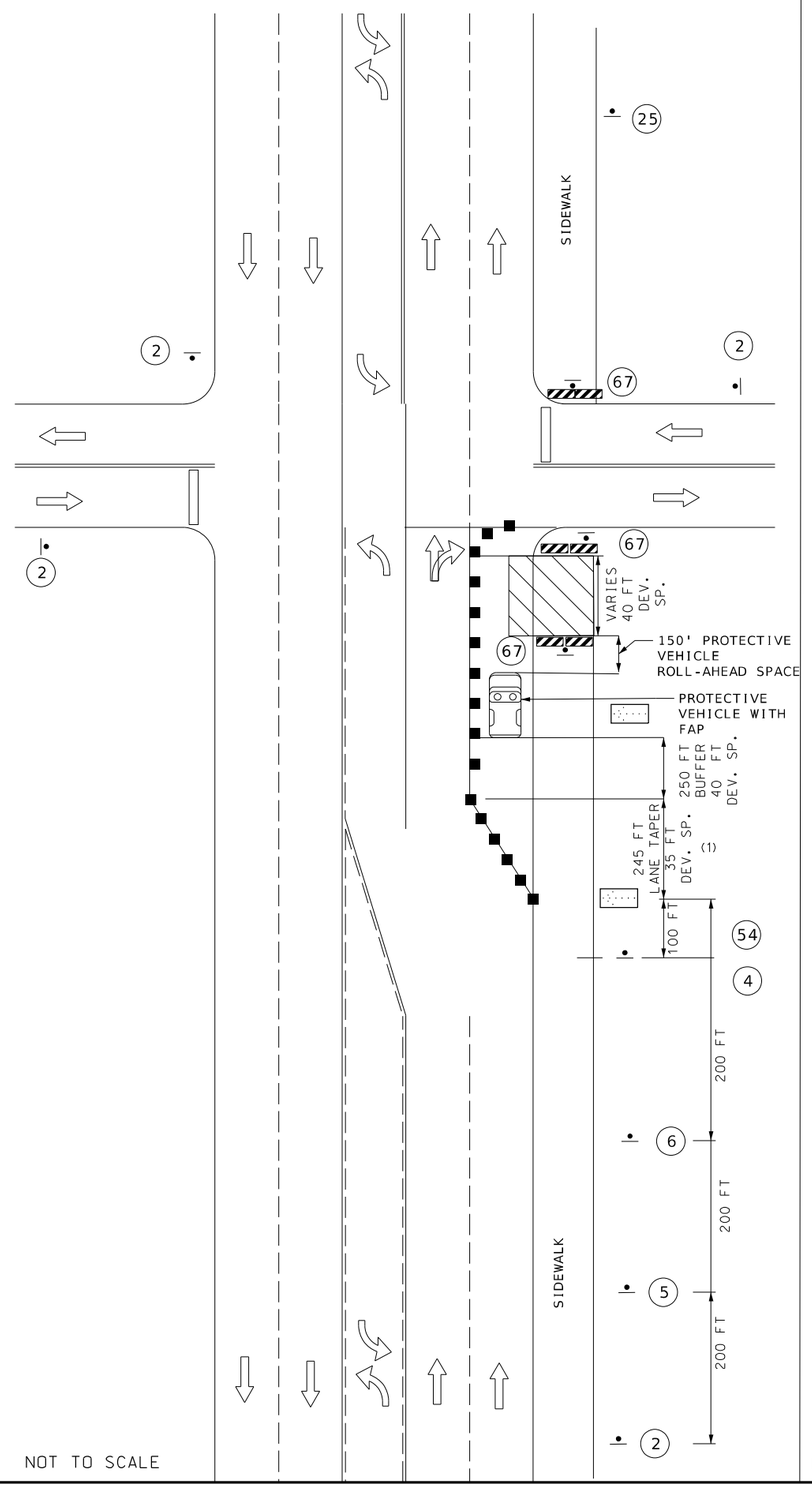
DATE PREPARED	
9/30/2025	
ROUTE VAR	STATE MO
DISTRICT CD	SHEET NO. 27
COUNTY DENT	
JOB NO. JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

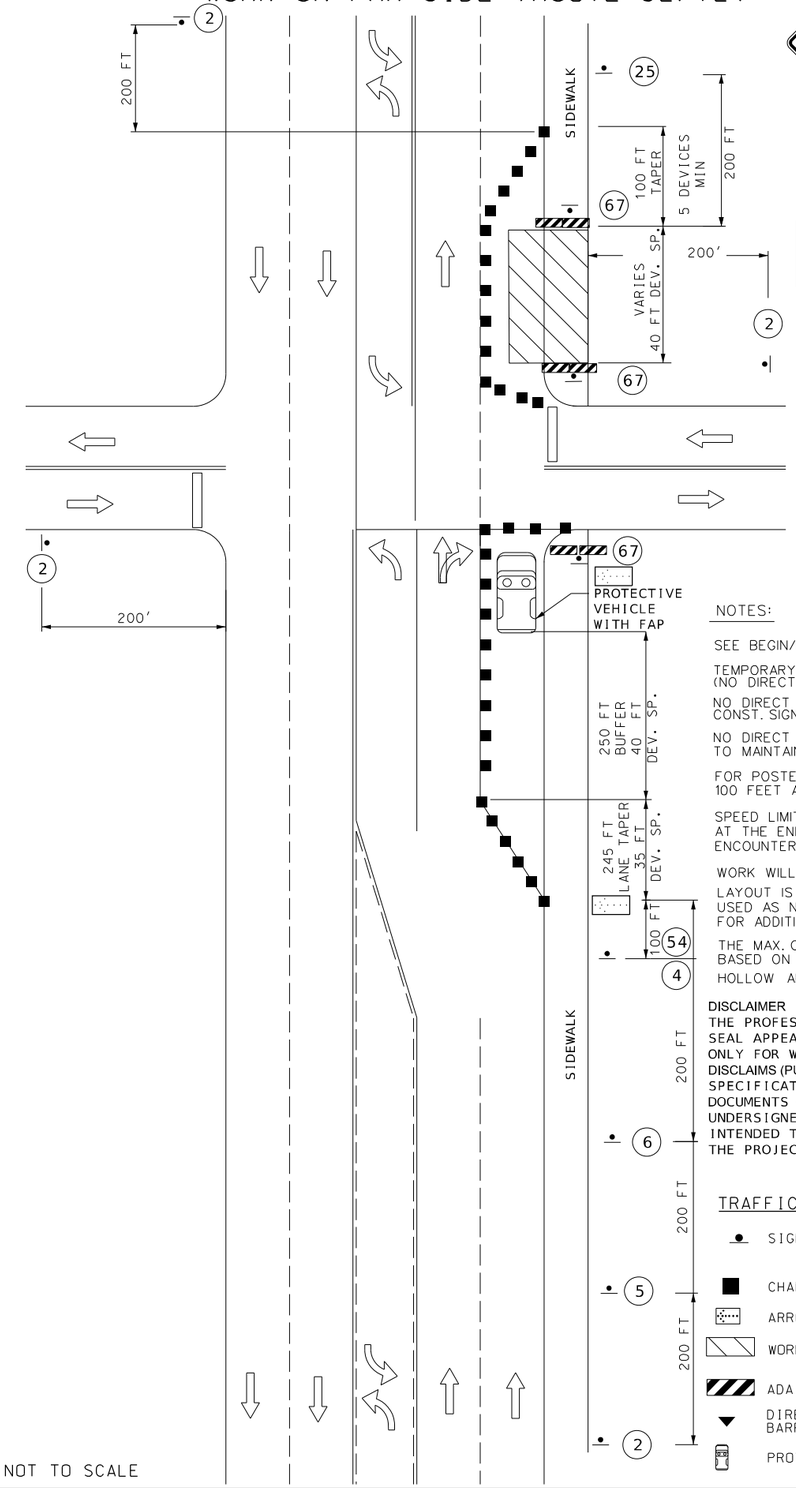
EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

RIGHT LANE CLOSURE AT INTERSECTION
WORK ON NEAR SIDE (ROUTE 32/72)

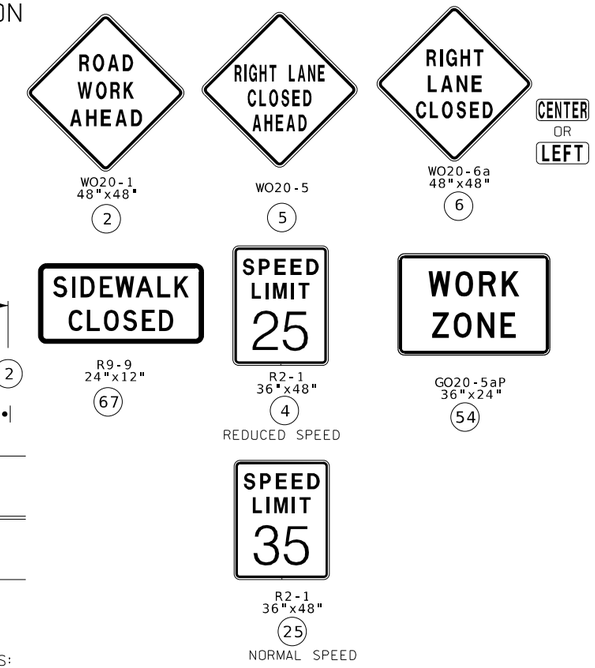


NOT TO SCALE

RIGHT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE (ROUTE 32/72)



NOT TO SCALE



NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

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 POSTED SPEEDS OF UP TO 35 MPH SIGN SPACING MAY BE REDUCED TO A MINIMUM OF 100 FEET AS CONDITIONS REQUIRE.

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.

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 MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- CHANNELIZER (TRIM LINE)
- ARROW PANEL
- WORK AREA
- ADA COMPLIANT MOVABLE BARRICADES
- DIRECTIONAL INDICATOR BARRICADE
- PROTECTIVE VEHICLE
- TRAFFIC CIRCULATION
- EXISTING STOP BAR

TRAFFIC CONTROL
SHEET 7 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:59 PM
Derek B. Koestel - Civil
MO PE-200201667

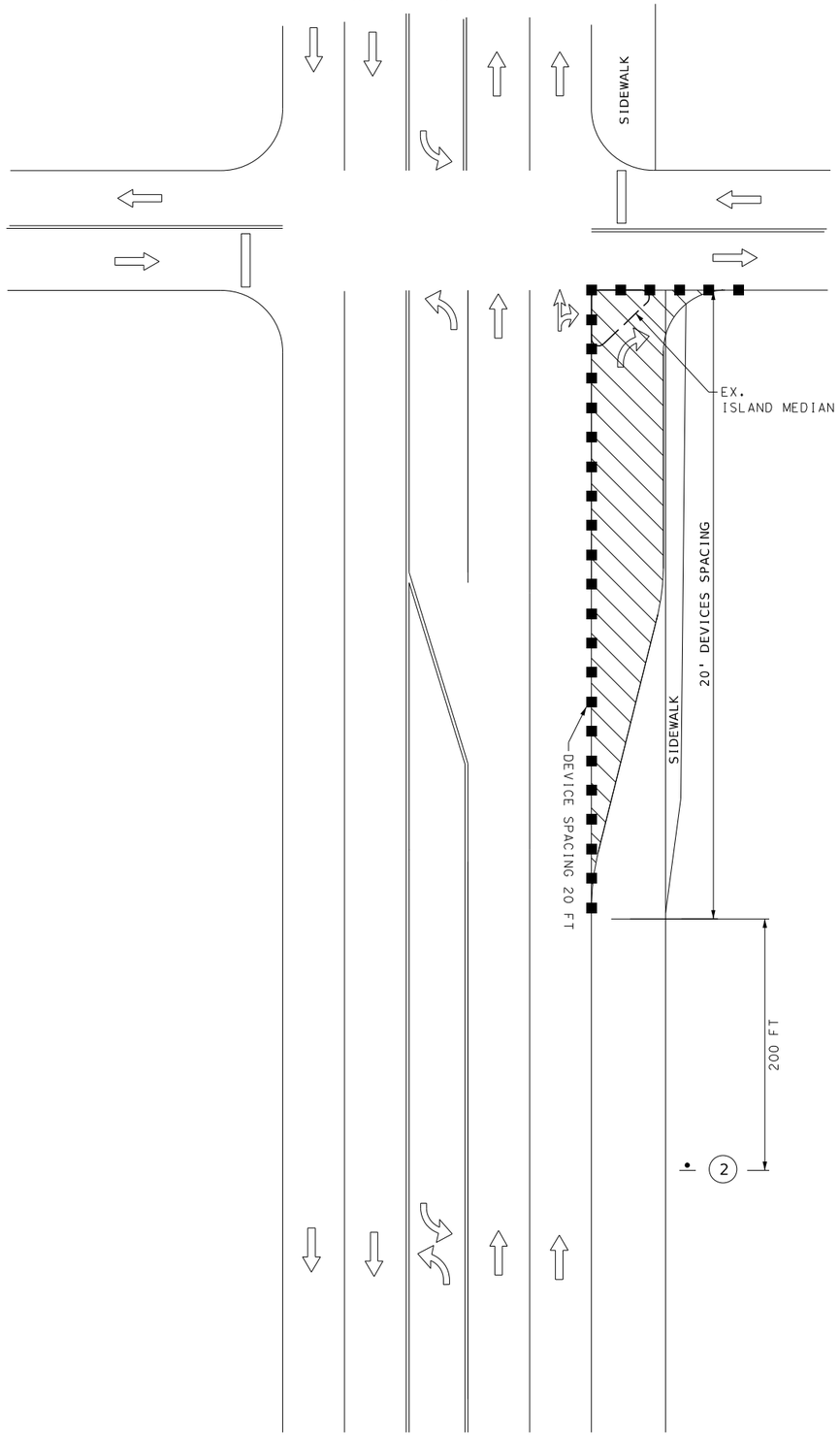
DATE PREPARED	9/30/2025
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	28
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

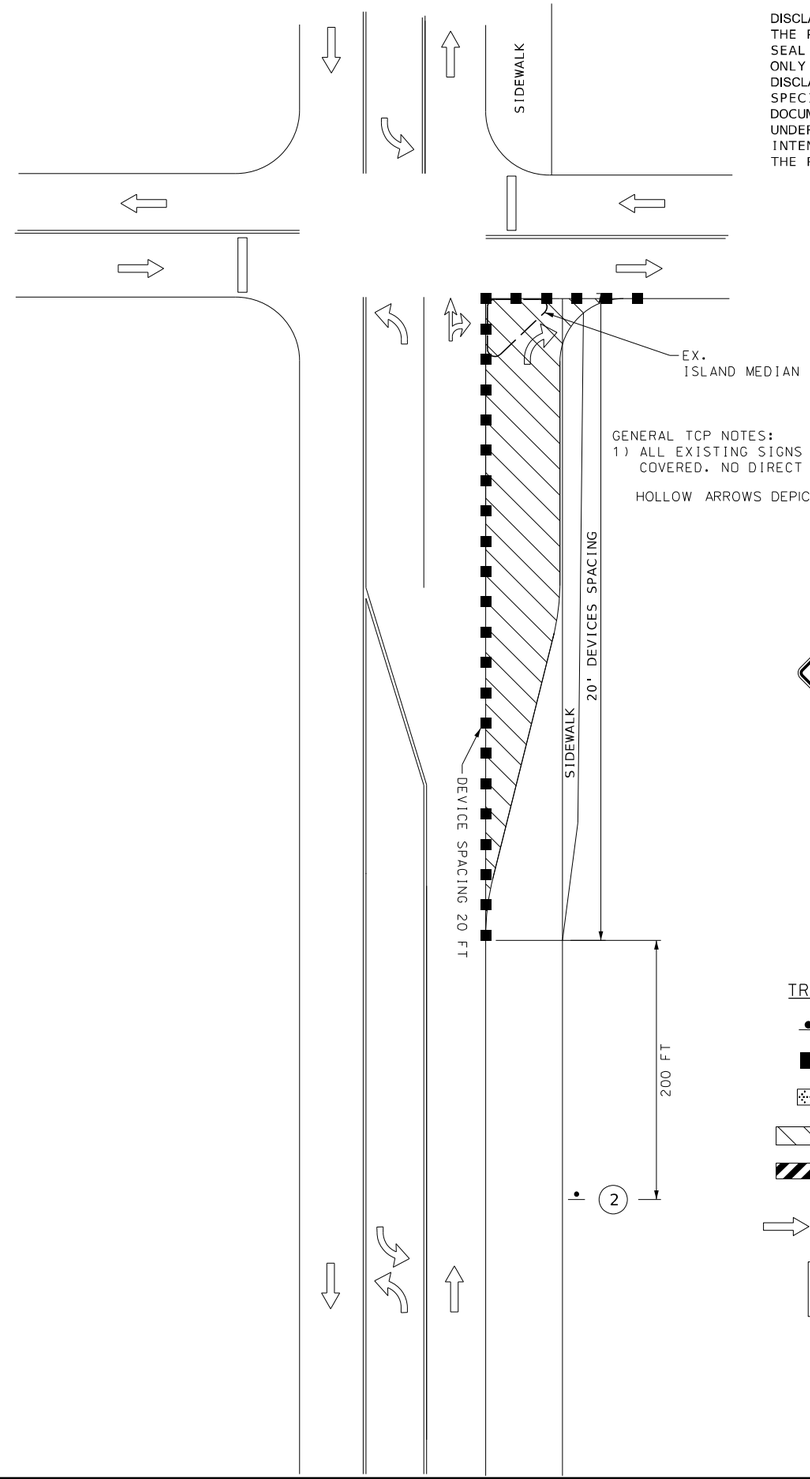
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

RIGHT TURN LANE CLOSURE AT INTERSECTION
ROUTE 32/72



RIGHT TURN LANE CLOSURE AT INTERSECTION
(ROUTE 19 S MAIN ST)



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GENERAL TCP NOTES:
1) ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY

HOLLOW ARROWS DEPICT TRAFFIC CIRCULATION NOT PAVEMENT MARKING

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- CHANNELIZER (TRIM LINE)
- ARROW PANEL
- WORK AREA
- ADA COMPLIANT MOVABLE BARRICADE
- TRAFFIC CIRCULATION
- EXISTING STOP BAR

TRAFFIC CONTROL
SHEET 8 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:59 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	9/30/2025
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	29
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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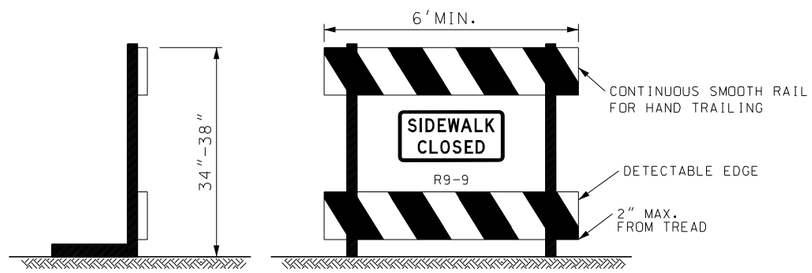
ADA COMPLIANT MOVEABLE BARRICADE



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.

TRAFFIC CONTROL
SHEET 9 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER

10/23/2025 5:08:59 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	
9/30/2025	
ROUTE: VAR	STATE: MO
DISTRICT: CD	SHEET NO.: 30
COUNTY: DENT	
JOB NO.: JCD0129	
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)

EFK•Moen
Civil Engineering Design
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Suite 250
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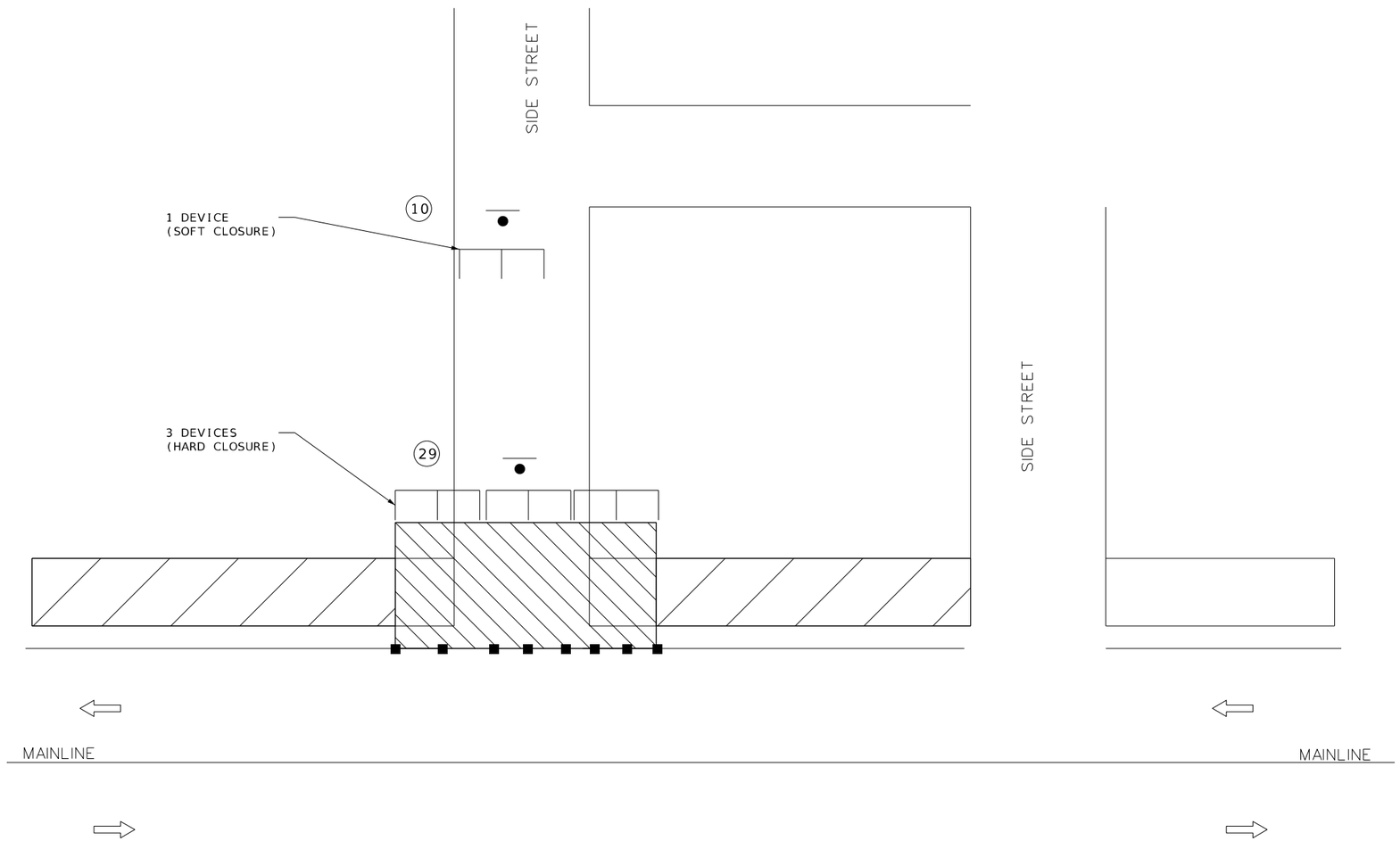
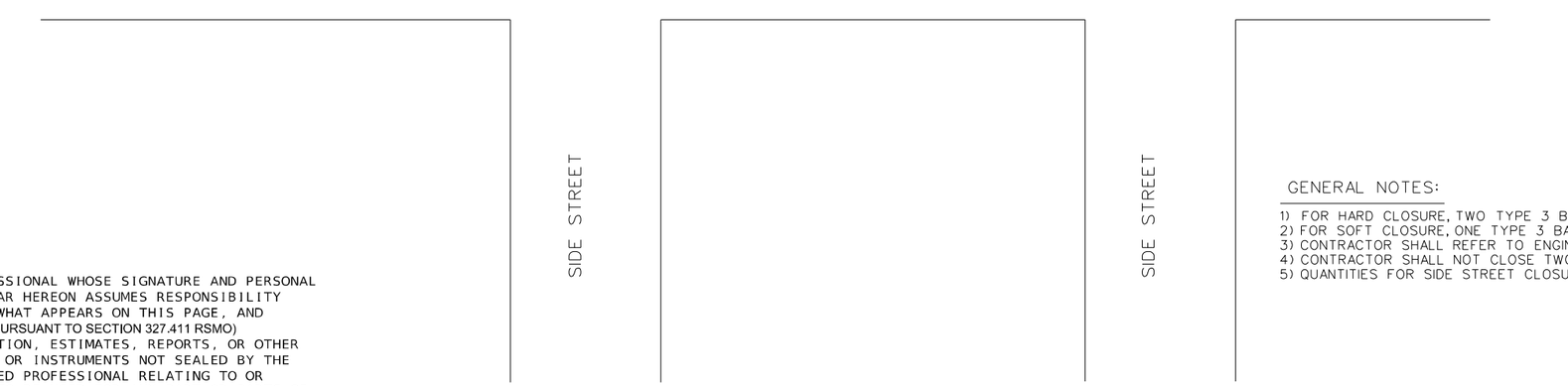
SIDE STREET CLOSURE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE-SIDED)
- WORK AREA
- TRAFFIC CIRCULATION
- TYPE III MOVABLE BARRICADES
- CHANNELIZER (TIMELINE)



GENERAL NOTES:

1) FOR HARD CLOSURE, TWO TYPE 3 BARRICADES AND ONE TYPE 3 BARRICADE WITH LIGHTS ARE REQUIRED.
2) FOR SOFT CLOSURE, ONE TYPE 3 BARRICADE WITH LIGHTS IS REQUIRED
3) CONTRACTOR SHALL REFER TO ENGINEER TO DETERMINE LOCATION OF SOFT CLOSURES.
4) CONTRACTOR SHALL NOT CLOSE TWO CONSECUTIVE SIDE STREETS CONCURRENTLY.
5) QUANTITIES FOR SIDE STREET CLOSURES ASSUME TWO CONCURRENT CLOSURES.

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NOT TO SCALE

TRAFFIC CONTROL
SHEET 10 OF 10

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-2002201667
PROFESSIONAL ENGINEER
10/23/2025 5:08:59 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	9/30/2025
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	31
COUNTY	DENT
JOB NO.	JCD0129
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
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PRIMARY RECIEVING WATERS: TOWN BRANCH

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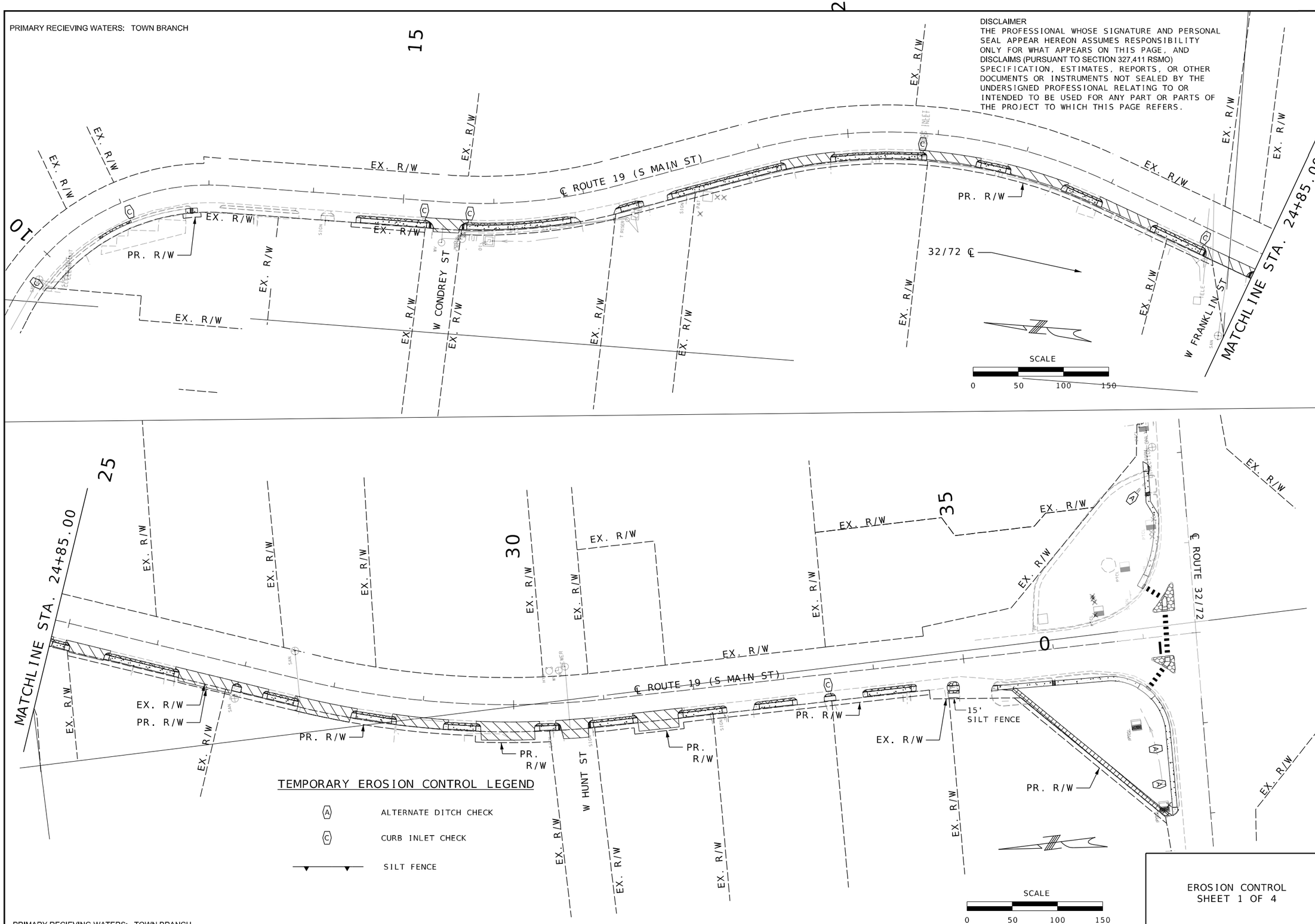

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

EROSION CONTROL
SHEET 1 OF 4

PRIMARY RECIEVING WATERS: TOWN BRANCH

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-200201667
PROFESSIONAL ENGINEER

10/23/2025 5:09:00 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	
9/30/2025	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	32
COUNTY	
DENT	
JOB NO.	
JCD0129	
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)

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Civil Engineering Design
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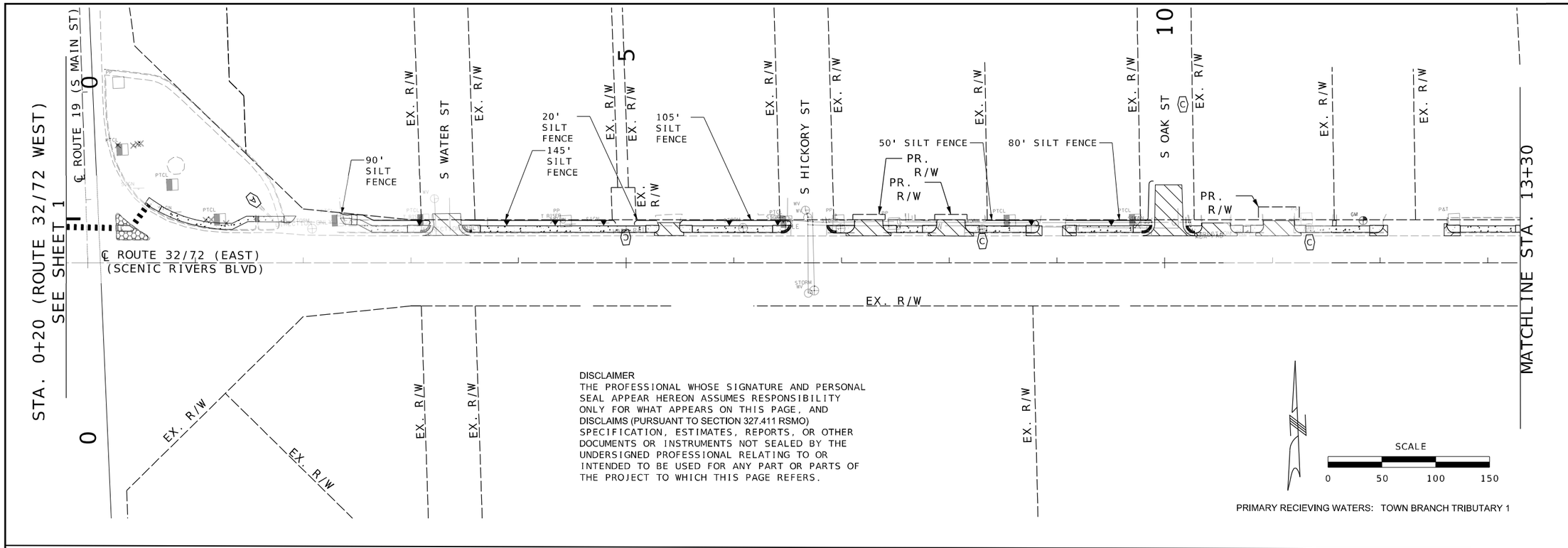

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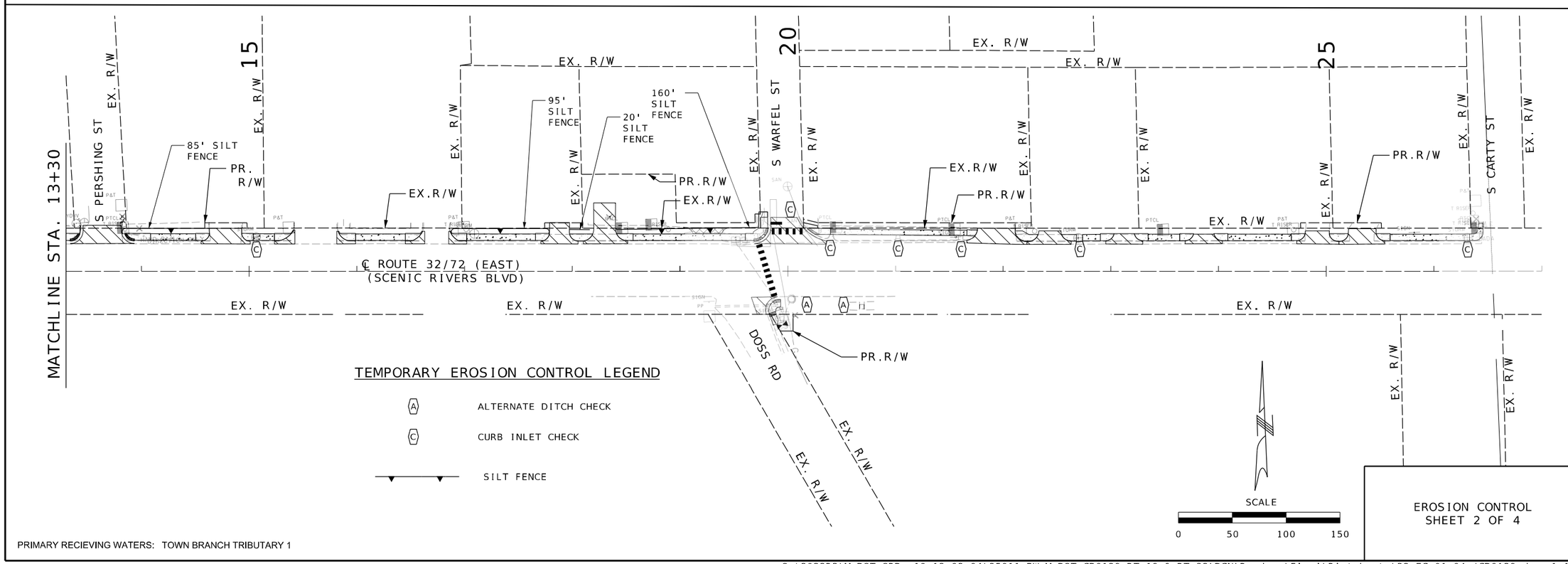
PRIMARY RECIEVING WATERS: TOWN BRANCH TRIBUTARY 1



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

PRIMARY RECIEVING WATERS: TOWN BRANCH TRIBUTARY 1

EROSION CONTROL
SHEET 2 OF 4

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-200201667
PROFESSIONAL ENGINEER

10/23/2025 5:09:00 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	
9/30/2025	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	33
COUNTY	
DENT	
JOB NO.	
JCD0129	
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)

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St. Louis, MO 63021
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PRIMARY RECIEVING WATERS: TOWN BRANCH

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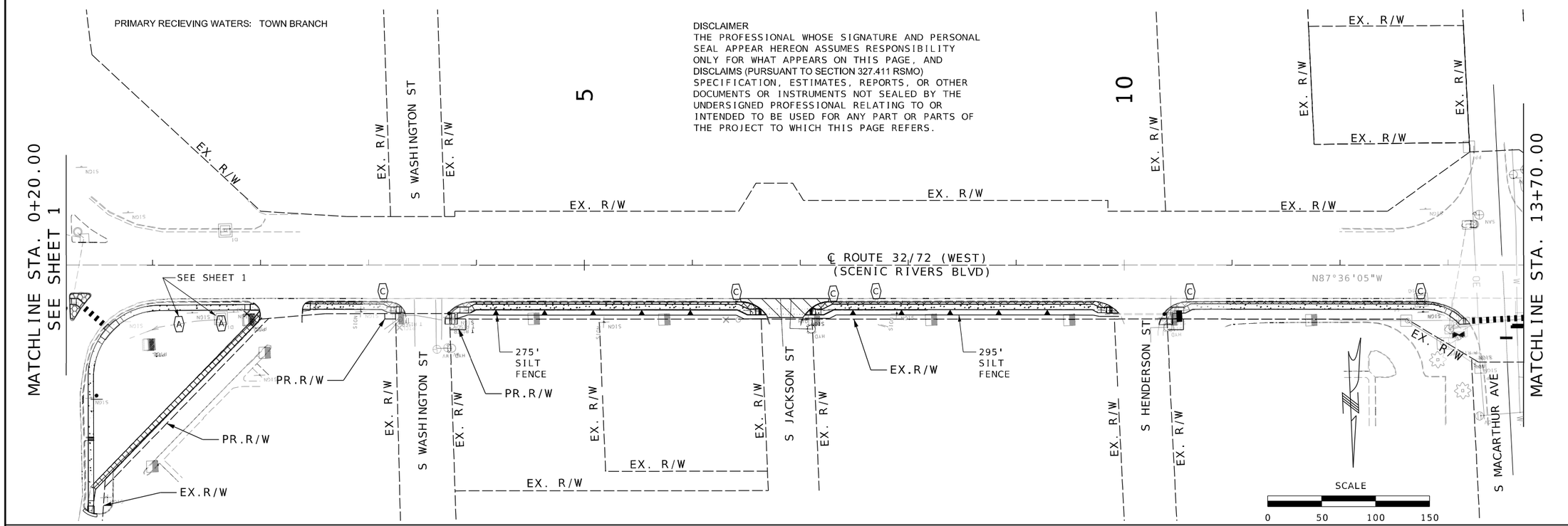

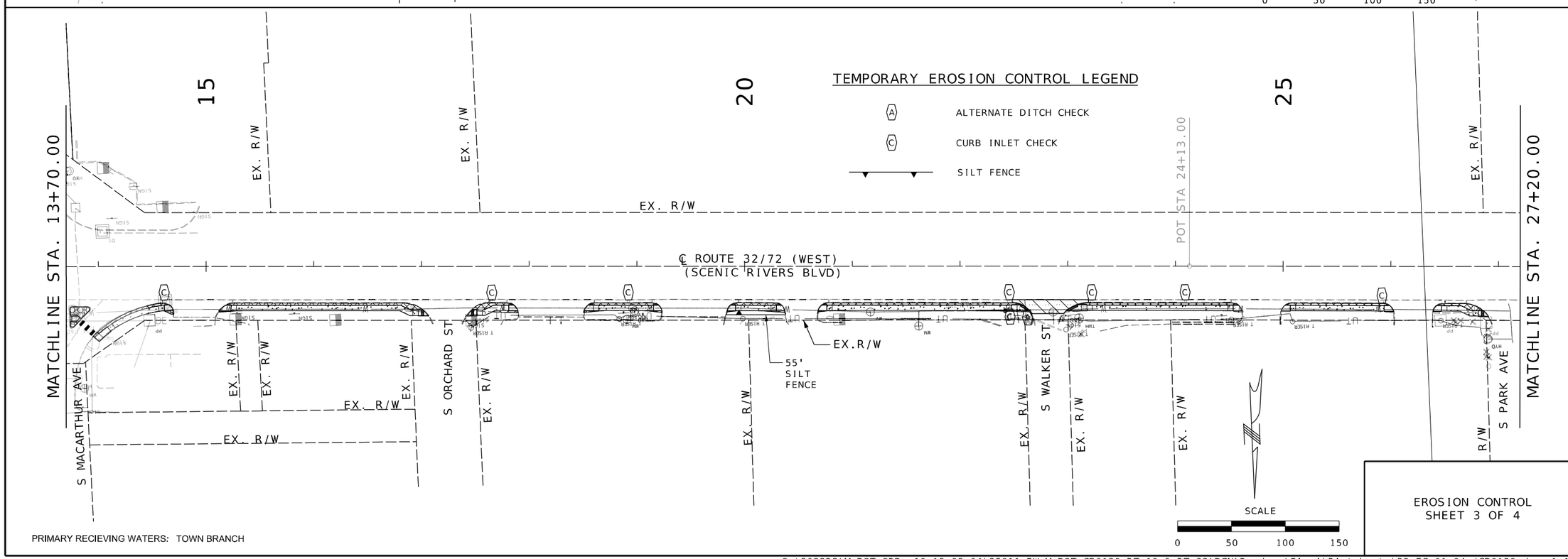

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE

EROSION CONTROL
SHEET 3 OF 4

PRIMARY RECIEVING WATERS: TOWN BRANCH

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-200201667
PROFESSIONAL ENGINEER

10/23/2025 5:09:00 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	
9/30/2025	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	34
COUNTY	
DENT	
JOB NO.	
JCD0129	
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)

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Civil Engineering Design
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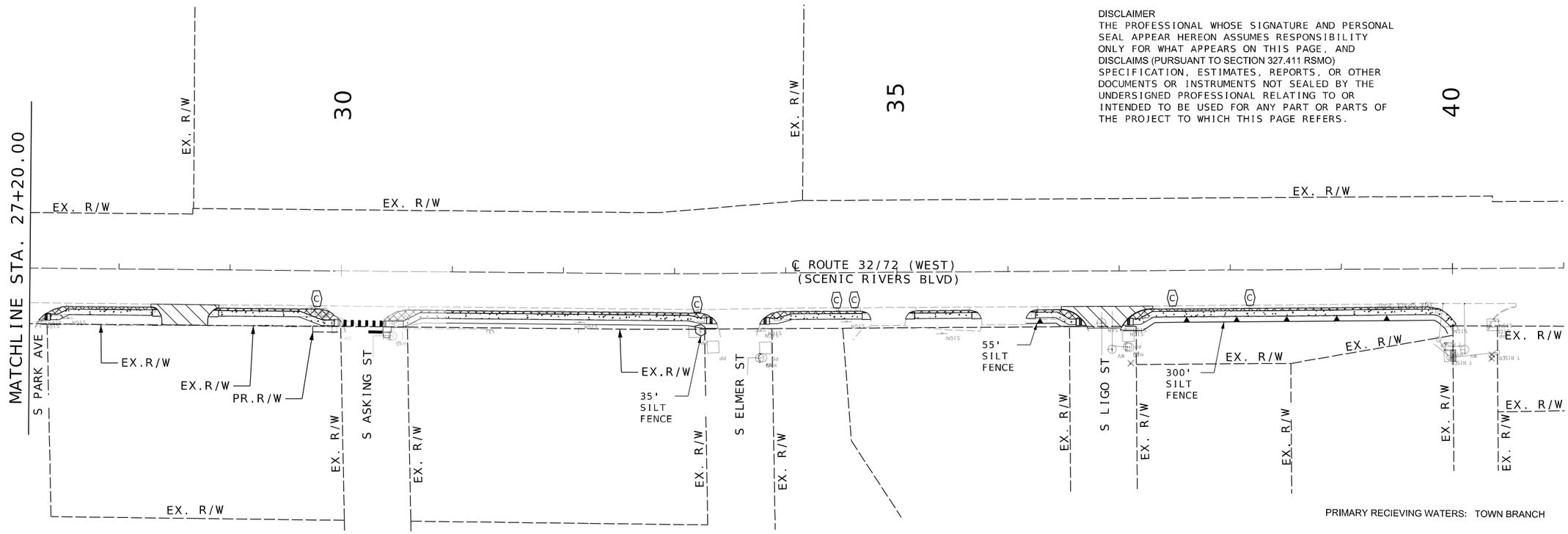

TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

(C) CURB INLET CHECK

SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL
SHEET 4 OF 4

STATE OF MISSOURI
DEREK BERNHARD KOESTEL
NUMBER PE-200201667
PROFESSIONAL ENGINEER

10/23/2025 5:09:00 PM
Derek B. Koestel - Civil
MO PE-200201667

DATE PREPARED	
9/30/2025	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	35
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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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

SUMMARY OF SIGNAL QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUAN	ROUTE 32/72			
				ASKINS ST	ROUTE J	ROUTE 19	DOSS/WARFEL
902.08-11	REMOVAL OF IMPROVEMENTS	LS	1				
✳✳	REMOVE PULL BOX		4	1	1	1	1
✳✳	REMOVE DETECTOR, PUSHBUTTON		4		2		2
✳✳	REMOVE SIGNAL HEAD, TYPE 1S, PEDESTRIAN		4		2		2
✳✳	REMOVE R10-3ER/L		4		2		2
902.08-11	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	EA	10	2	2	2	4
902.27-08	POST, SIGNAL 8 FT	EA	8	1	2	1	4
902.49-21	ACCESSIBLE PEDESTRIAN SIGNAL	EA	10	2	2	2	4
902.53-00	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LF	230 ✳	24	23	10	165
902.83-08	CABLE, 16 AWG 2 CONDUCTOR	LF	1530	400	180	380	570
902.83-10	CABLE, 16 AWG 5 CONDUCTOR	LF	1540	400	190	380	570
902.88-11	PULL BOX, PREFORMED, CLASS 2	EA	5	1	1	1	2
902.88-12	PULL BOX, PREFORMED, CLASS 3	EA	1				1
902.91-00	BASE, CONCRETE	CY	3.5	0.4	0.9	0.4	1.8
902.99-02{1}	MISC. {PUSH BUTTON EXTENSION}	EA	2	1		1	

✳ ROUNDED UP TO ALIGN WITH STANDARD 10 FT CONDUIT PURCHASE INCREMENTS

✳✳ SUBSIDIARY TO PAY ITEM ABOVE

NOTE: SIGNAL QUANTITIES SHOWN ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY. SEE INDIVIDUAL SIGNAL QUANTITY SHEETS FOR OFFICIAL QUANTITIES.

SUMMARY OF SIGNAL QUANTITIES
SIGNAL SHEET 1 OF 13

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 10/23/2025
ROUTE: VAR. | STATE: MO
DISTRICT: CD | SHEET NO.: 36
COUNTY: DENT
JOB NO.: JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

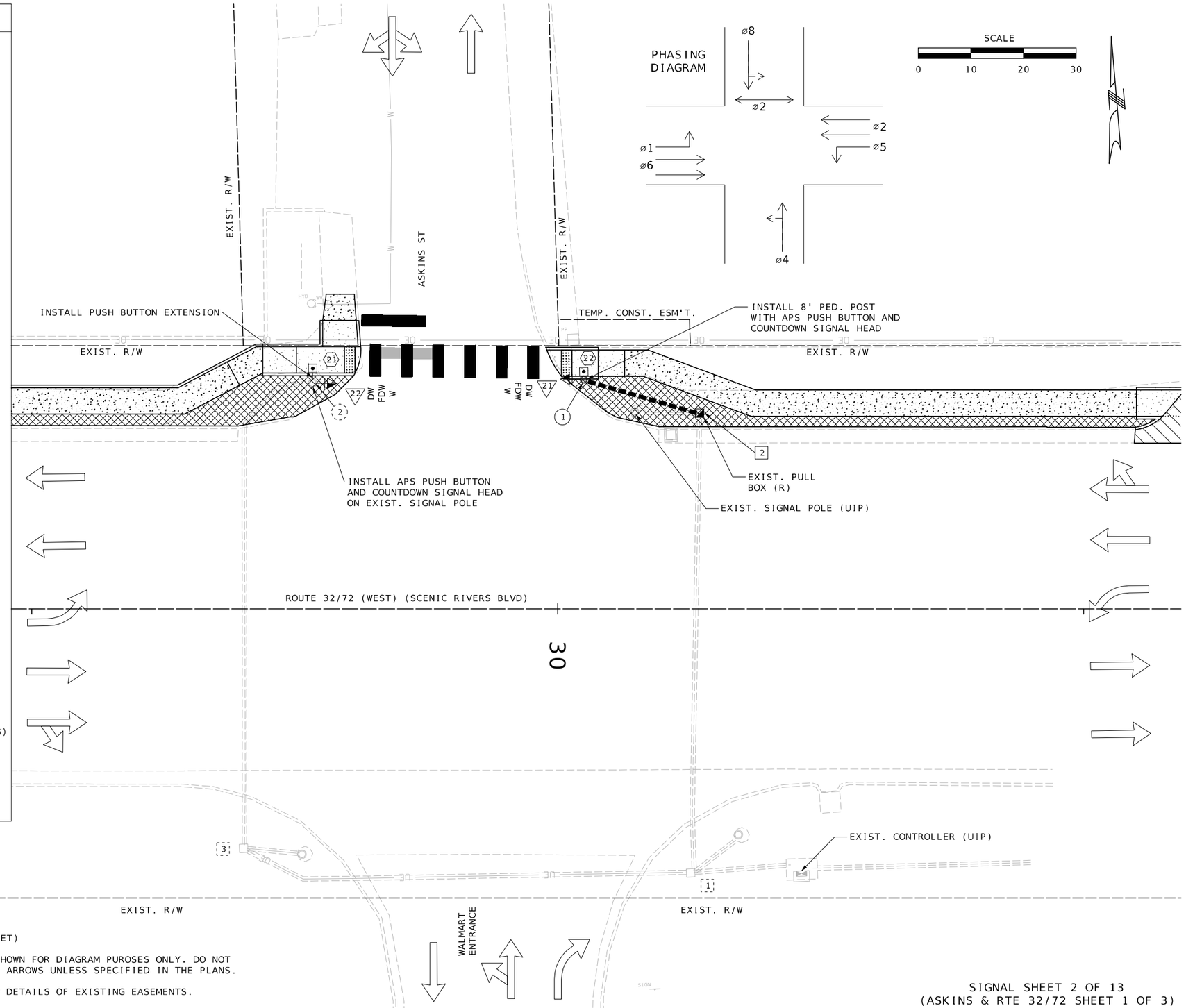
DATE	DESCRIPTION

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRAFFIC SIGNALS LEGEND

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



GENERAL NOTE (SIGNAL SHEET)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PUROSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

SIGNAL SHEET 2 OF 13
(ASKINS & RTE 32/72 SHEET 1 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	37
COUNTY	DENT
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CONTRACT ID.	
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 2"	TRENCH 3"	PUSHED 3"	REMARKS
	1	22				USE EXISTING
1	2	88				USE EXISTING
1	3	87				USE EXISTING
2	1	23		24		
3	2	97				USE EXISTING
TOTALS				24		

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#2	POWER 1c#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL RADAR	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	REMARKS
	1	133			162	163					
	2	206			235	236					
SUBTOTALS					397	399					
TOTALS					400	400					

POST NUMBER	PULL BOX NUMBER	LOCATION QUADRANT	STATION	OFFSET	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	DRAIN TYPE* I	II A	II B	II C	UIP EXISTING*	ADJUST EXISTING	POST TOP MOUNT POST 8 FT.	&-8 FT.	15 FT.
	1	SE CORNER	29+74.74	50.2' LT											1				
	2	NE CORNER	29+72.79	37.2' RT				1			1								
	3	SW CORNER	30+59.72	45.6' LT											1				
1		NE CORNER	29+95.07	43.6' RT	1	0.44											1		
2		NW CORNER	30+46.60	42.9' RT											1				
SUBTOTALS						0.44											1		
TOTALS						0.4											1		

SIGNAL HEADS

POST NUMBER	FACE NUMBER	12" LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	1s	12" LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12" LENS	PED.	RELOCATE EXISTING	UIP EXISTING *	ONE-FACE SECTION 1- T	S	C	B
1	21											1												1				1			
2	22											1												1				1			
TOTALS												2																			

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT ***

LOCATION QUADRANT	SYSTEM MASTER (CLOSED LOOP) NEMA	170	ACTUATED NEMA	170	ON-OFF* SWITCH TYPE I	II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) MASTER	LOCAL	TIME BASE	CLOSED LOOP NEMA	170	FIBER	TIME * CLOCK	NEMA CABINET TYPE * E	EV	DOUBLE	170 CABINET TYPE * 332	336S	170 SOFTWARE * BITRAN	WAPITI
SE CORNER																			

*** CONTROLLER ASSEMBLY IS EXISTING

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 9020834
		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 ***	90 X 18	11.3		
	D3-1 ***	60 X 18	7.5		
1	R10-3EL	9 X 15	0.9	&&	&&
1	R10-3ER	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		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&& = PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS *	REMARKS
21	2	1	1			
22	2	1				
SUBTOTAL		2	1			
TOTALS		2	1			

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.

ROUTE 32/72 (SCENIC RIVERS BLVD) & ASKINS ST

INTERSECTION

SIGNAL SHEET 3 OF 13
(ASKINS & RTE 32/72 SHEET 2 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/23/2025

ROUTE VAR. | STATE MO

DISTRICT CD | SHEET NO. 38

COUNTY DENT

JOB NO. JCD0129

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

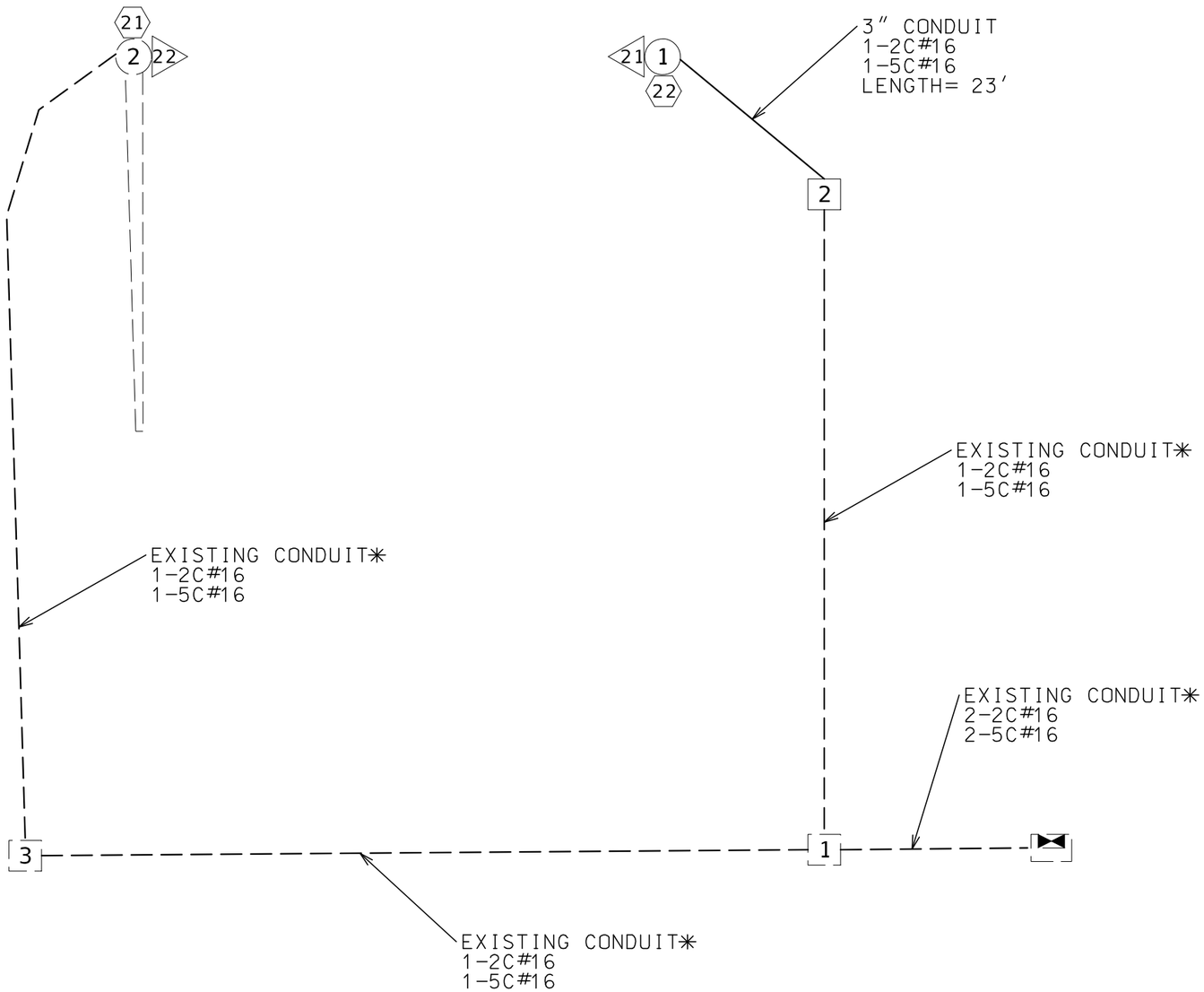
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-17

WIRING DIAGRAM



✳CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONTAINS ADDITIONAL CABLES.

ROUTE 32/72 (SCENIC RIVERS BLVD) & ASKINS ST

INTERSECTION

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	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
X	PULL BOX WITH NUMBER (EXISTING)
X	POST WITH NUMBER (EXISTING)
X	POST WITH MAST ARM (EXISTING)
X	DETECTOR WITH NUMBER (EXISTING)
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER (EXISTING)
	SIGNAL CONTROLLER (EXISTING)

SIGNAL SHEET 4 OF 13
(ASKINS & RTE 32/72 SHEET 3 OF 3)

D-37D

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	39
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

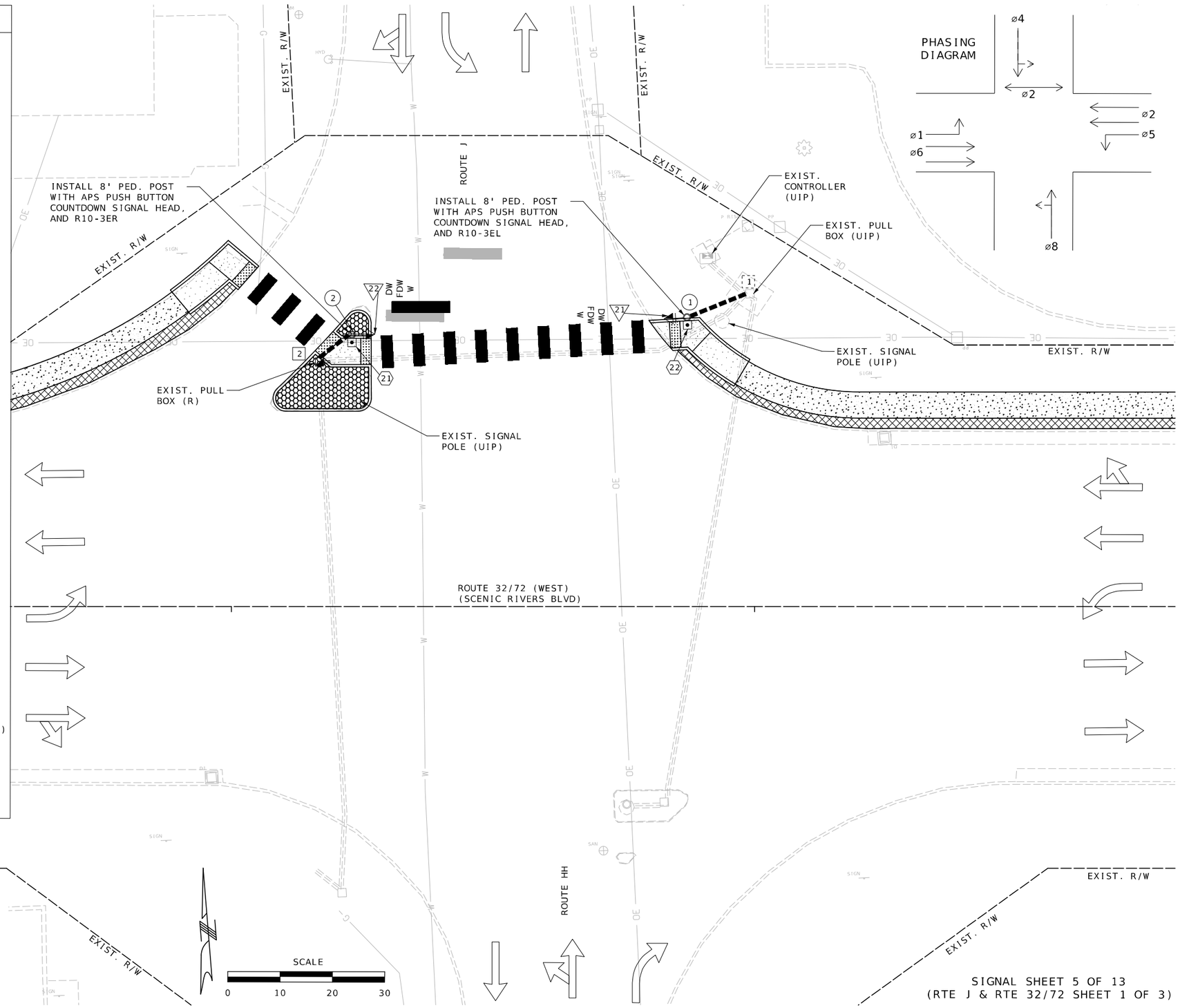
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

TRAFFIC SIGNALS LEGEND

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



GENERAL NOTE (SIGNAL SHEET)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PUROSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

SIGNAL SHEET 5 OF 13
(RTE J & RTE 32/72 SHEET 1 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	40
COUNTY	
DENT	
JOB NO.	
JCD0129	
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 2"	TRENCH 3"	PUSHED 3"	REMARKS
	1	12				USE EXISTING
1	2	86				USE EXISTING
1	1	12		13		
2	2	9		10		
TOTALS				23		

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#2	POWER 1c#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL RADAR	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	REMARKS
	1	24			47	48					
	2	107			136	137					
SUBTOTALS					183	185					
TOTALS					180	190					

POST NUMBER	PULL BOX NUMBER	LOCATION QUADRANT	STATION	OFFSET	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	DRAIN TYPE* I	II A	II B	II C	UIP EXISTING*	ADJUST EXISTING	POST TOP MOUNT POST 8 FT.	&-8 FT.	15 FT.
	1	NE CORNER	13+00.91	59.8' RT											1				
	2	NW CORNER	13+83.12	46.7' RT				1				1							
1		NE CORNER	13+12.94	55.3' RT	1	0.44											1		
2		NW CORNER	13+76.97	52.0' RT	1	0.44											1		
SUBTOTALS						0.88											2		
TOTALS						0.9											2		

SIGNAL HEADS

POST NUMBER	FACE NUMBER	12" LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	1s	12" LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12" LENS	PED.	RELOCATE EXISTING	UIP EXISTING *	ONE-FACE SECTION 1- T	S	C	B
1	21											1												1				1			
2	22											1												1				1			
TOTALS												2																			

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT ***

LOCATION QUADRANT	SYSTEM MASTER (CLOSED LOOP) NEMA	170	ACTUATED NEMA	170	ON-OFF* SWITCH TYPE I	II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) MASTER	LOCAL	TIME BASE	CLOSED LOOP NEMA	170	FIBER	TIME * CLOCK	NEMA CABINET TYPE * E	EV	DOUBLE	170 CABINET TYPE * 332	336S	170 SOFTWARE * BITRAN	WAPITI
NE CORNER																			

*** CONTROLLER ASSEMBLY IS EXISTING

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 9020834
		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 ***	90 X 18	11.3		
	D3-1 ***	60 X 18	7.5		
1	R10-3EL	9 X 15	0.9	&&	&&
1	R10-3ER	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		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&& = PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS *	REMARKS
21	2	1				
22	2	1				
SUBTOTAL		2				
TOTALS		2				

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.

ROUTE 32/72 (SCENIC RIVERS BLVD) & ROUTE J

INTERSECTION

SIGNAL SHEET 6 OF 13
(RTE J & RTE 32/72 SHEET 2 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/23/2025
ROUTE VAR. STATE MO
DISTRICT CD SHEET NO. 41
COUNTY DENT
JOB NO. JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

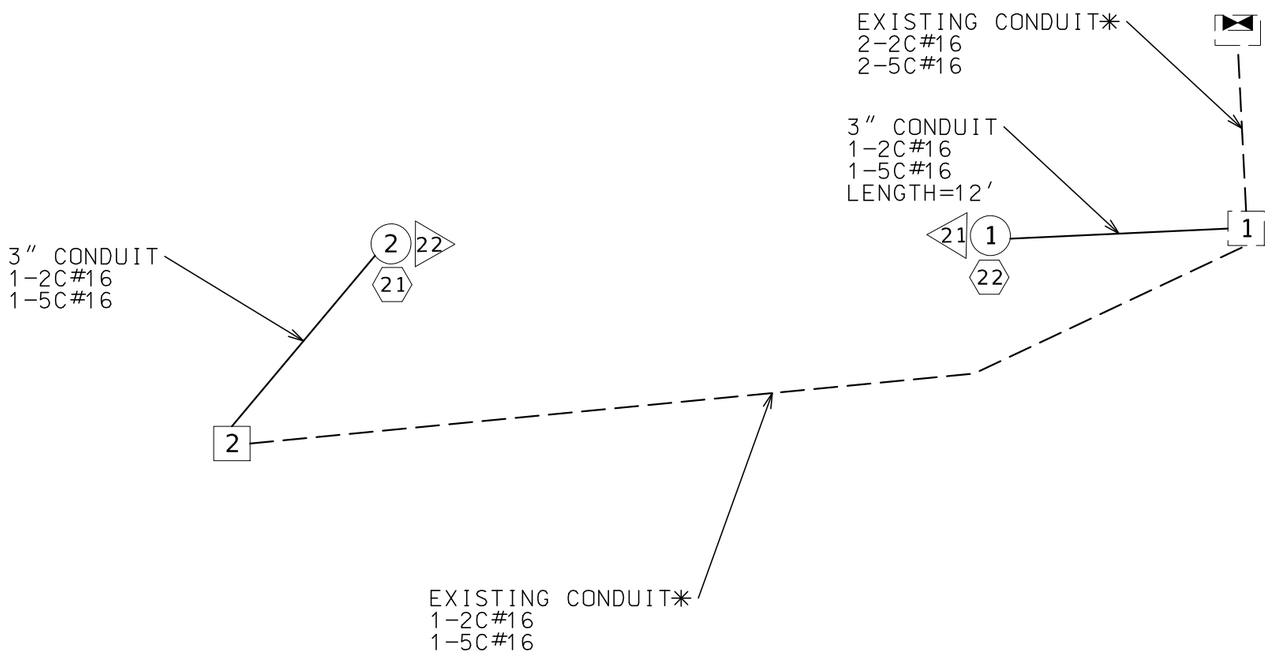
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOT TO SCALE

✳CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONTAINS ADDITIONAL CABLES.

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	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
X	PULL BOX WITH NUMBER (EXISTING)
X	POST WITH NUMBER (EXISTING)
X	POST WITH MAST ARM (EXISTING)
X	DETECTOR WITH NUMBER (EXISTING)
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER (EXISTING)
	SIGNAL CONTROLLER (EXISTING)

ROUTE 32/72 (SCENIC RIVERS BLVD) & ROUTE J

INTERSECTION

SIGNAL SHEET 7 OF 13
(RTE J & RTE 32/72 SHEET 3 OF 3)

D-37D

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	42
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

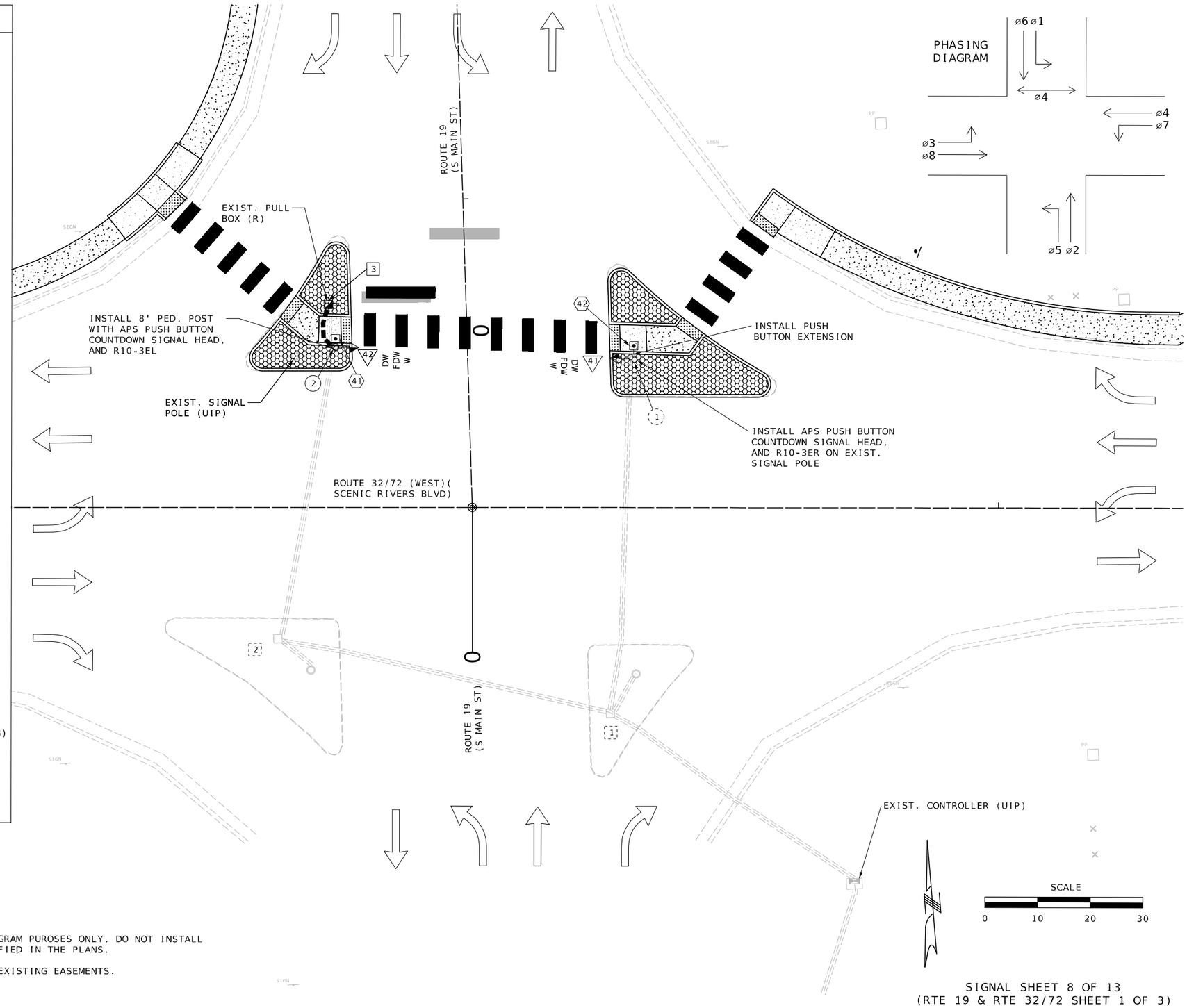
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

TRAFFIC SIGNALS LEGEND

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



GENERAL NOTE (SIGNAL SHEET)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PUROSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

SIGNAL SHEET 8 OF 13
(RTE 19 & RTE 32/72 SHEET 1 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	43
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 2"	TRENCH 3"	PUSHED 3"	REMARKS
	1	57				USE EXISTING
1	2	65				USE EXISTING
2	3	65				USE EXISTING
1	1	68				USE EXISTING
3	2	9		10		
TOTALS				10		

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#2	POWER 1c#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL RADAR	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	REMARKS
	1	125			148	149					
	2	196			231	232					
SUBTOTALS					379	381					
TOTALS					380	380					

POST NUMBER	PULL BOX NUMBER	LOCATION QUADRANT	STATION	OFFSET	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	DRAIN TYPE* I	II A	II B	II C	UIP EXISTING*	ADJUST EXISTING	POST TOP MOUNT POST 8 FT.	&-8 FT.	15 FT.
	1	SE CORNER	00+26.21	39.0' RT											1				
	2	SW CORNER	00+36.92	25.0' LT											1				
	3	NW CORNER	00+27.38	38.5' RT				1				1							
1		NE CORNER	00+30.61	28.3' LT											1				
2		NW CORNER	00+26.00	30.5' RT	1	0.44											1		
				SUBTOTALS		0.44											1		
				TOTALS		0.4											1		

SIGNAL HEADS

POST NUMBER	FACE NUMBER	12" LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	1s	12" LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12" LENS	PED.	RELOCATE EXISTING	UIP EXISTING *	ONE-FACE SECTION 1- T	S	C	B
1	41											1												1				1			
2	42											1												1				1			
TOTALS												2																			

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT ***

LOCATION QUADRANT	SYSTEM MASTER (CLOSED LOOP) NEMA	170	ACTUATED NEMA	170	ON-OFF* SWITCH TYPE I	II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) MASTER	LOCAL	TIME BASE	CLOSED LOOP NEMA	170	FIBER	TIME * CLOCK	NEMA CABINET TYPE * E	EV	DOUBLE	170 CABINET TYPE * 332	336S	170 SOFTWARE * BITRAN	WAPITI
SE CORNER																			

*** CONTROLLER ASSEMBLY IS EXISTING

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 9020834
		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 ***	90 X 18	11.3		
	D3-1 ***	60 X 18	7.5		
1	R10-3EL	9 X 15	0.9	&&	&&
1	R10-3ER	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		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&& = PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS *	REMARKS
41	4	1				
42	4	1	1			
SUBTOTAL		2	1			
TOTALS		2	1			

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.

ROUTE 32/72 (SCENIC RIVERS BLVD) & ROUTE 19 (S MAIN ST)

INTERSECTION

SIGNAL SHEET 9 OF 13
(RTE 19 & RTE 32/72 SHEET 2 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/23/2025

ROUTE VAR. STATE MO

DISTRICT CD SHEET NO. 44

COUNTY DENT

JOB NO. JCD0129

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

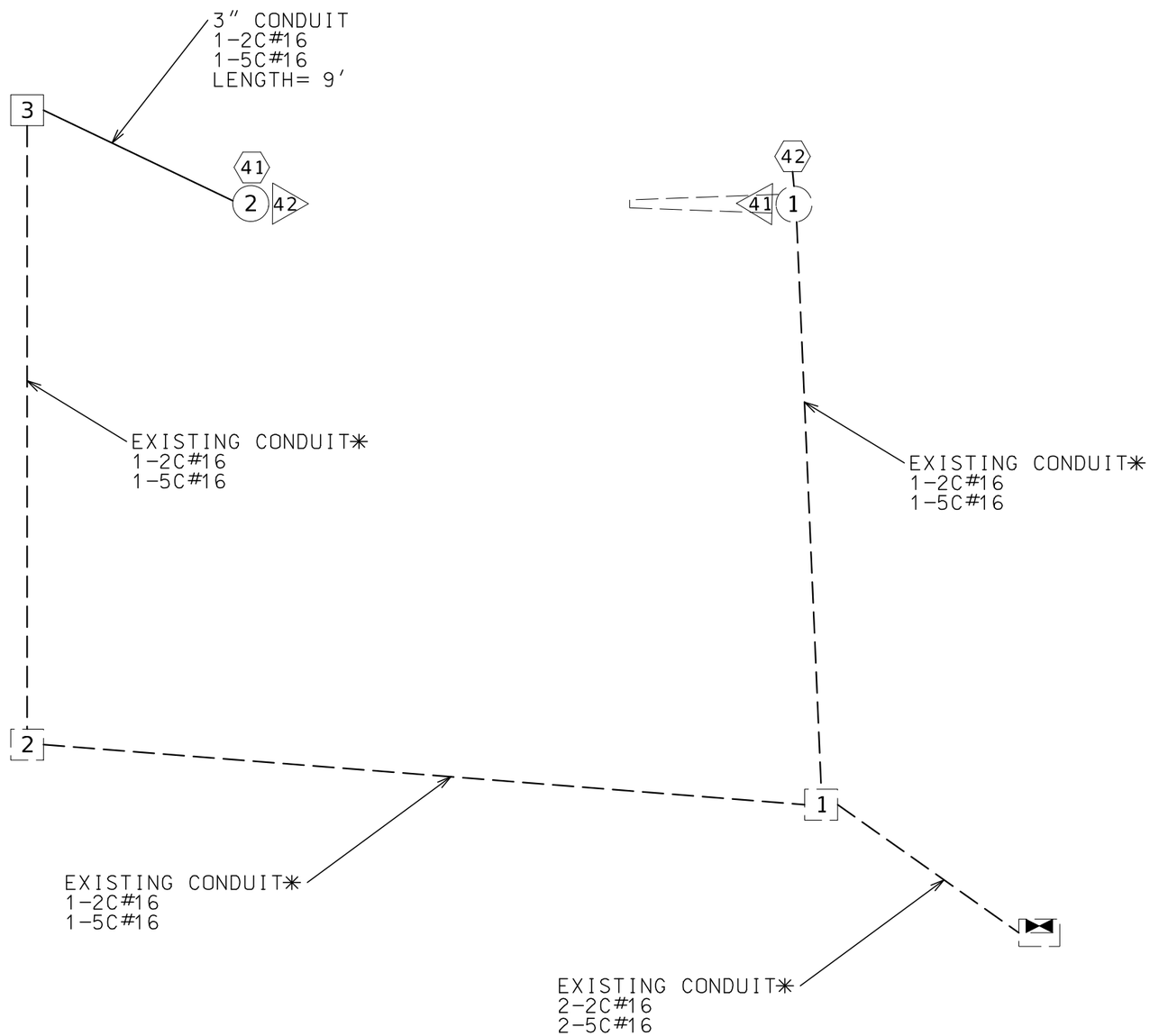
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOT TO SCALE

✳CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONTAINS ADDITIONAL CABLES.

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	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
X	PULL BOX WITH NUMBER (EXISTING)
X	POST WITH NUMBER (EXISTING)
X	POST WITH MAST ARM (EXISTING)
X	DETECTOR WITH NUMBER (EXISTING)
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER (EXISTING)
	SIGNAL CONTROLLER (EXISTING)

ROUTE 32/72 (SCENIC RIVERS BLVD) & ROUTE 19 (S MAIN ST)

INTERSECTION

SIGNAL SHEET 10 OF 13
(RTE 19 & RTE 32/72 SHEET 3 OF 3)

D-37D

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE	DESCRIPTION

DATE PREPARED: 10/23/2025

ROUTE	STATE
VAR.	MO

DISTRICT	SHEET NO.
CD	45

COUNTY: DENT

JOB NO.: JCD0129

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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

Bartlett & West
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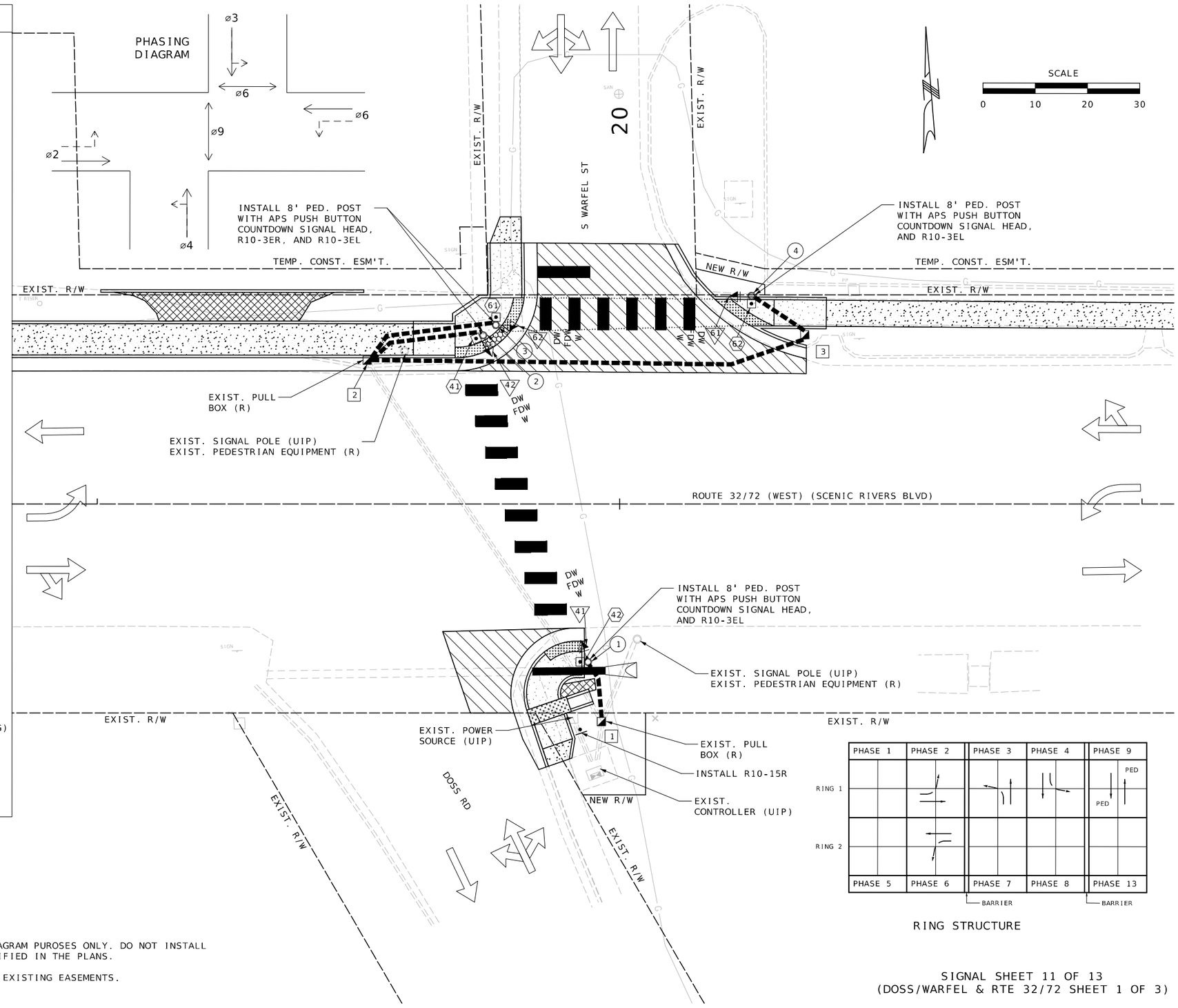
TRAFFIC SIGNALS LEGEND

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



PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 9
RING 1				PED / PED
RING 2				
PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 13

BARRIER BARRIER

RING STRUCTURE

GENERAL NOTE (SIGNAL SHEET)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PUROSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

SIGNAL SHEET 11 OF 13
(DOSS/WARFEL & RTE 32/72 SHEET 1 OF 3)

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE VAR.	STATE MO
DISTRICT CD	SHEET NO. 46
COUNTY DENT	
JOB NO. JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 2″	TRENCH 3″	PUSHED 3″	REMARKS
	1	10				USE EXISTING
1	2	83				USE EXISTING
2	3	85		83		
1	1	13		14		
2	2	24		25		
2	3	28		29		
3	4	13		14		
TOTALS				165		

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#2	POWER 1c#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL RADAR	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	REMARKS
	1	23			46	47					
	2	117			146	147					
	3	121			150	151					
	4	191			226	227					
SUBTOTALS					568	572					
TOTALS					570	570					

PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	QUADRANT	STATION	OFFSET	BASE C	BASE CONCRETE** (CU. YDS.)	PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	UIP EXISTING*	ADJUST EXISTING	POST TOP MOUNT POST 8 FT.	8-8 FT.	15 FT.
	1	SE CORNER	19+96.64	41.8′ RT					1		1								
	2	NW CORNER	19+51.66	27.5′ LT				1				1							
	3	NE CORNER	20+35.44	32.4′ LT				1						1					
1		SE CORNER	19+93.94	30.2′ RT	1	0.44											1		
2		NW CORNER	19+73.90	32.3′ LT	1	0.44											1		
3		NW CORNER	19+76.31	34.3′ LT	1	0.44											1		
4		NE CORNER	20+25.24	39.8′ LT	1	0.44											1		
				SUBTOTALS		1.76		1									4		
				TOTALS		1.8		1									4		

SIGNAL HEADS

POST NUMBER	FACE NUMBER	12″ LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	1s	12″ LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12″ LENS	VISORS * PED.	RELOCATE EXISTING	UIP EXISTING *	ONE-FACE SECTION 1- T	S	C	B
1	41											1												1				1		
2	42											1												1				1		
3	62											1												1				1		
4	61											1												1				1		
TOTALS												4																		

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT ***

LOCATION QUADRANT	SYSTEM MASTER (CLOSED LOOP) NEMA	170	ACTUATED NEMA	170	ON-OFF* SWITCH TYPE I	II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) MASTER	LOCAL	TIME BASE	CLOSED LOOP NEMA	170	FIBER	TIME * CLOCK	NEMA CABINET TYPE * E	EV	DOUBLE	170 CABINET TYPE * 332	336S	170 SOFTWARE * BITRAN	WAPITI
SE CORNER																				

*** CONTROLLER ASSEMBLY IS EXISTING

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 9020834
		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 ***	90 X 18	11.3		
	D3-1 ***	60 X 18	7.5		
3	R10-3EL	9 X 15	0.9	&&	&&
1	R10-3ER	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		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&& = PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	TYPE PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS *	REMARKS
41	4	1				
42	4	1				
61	6	1				
62	6	1				
SUBTOTAL		4				
TOTALS		4				

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.

ROUTE 32/72 (SCENIC RIVERS BLVD) & DOSS RD/S WARFEL ST

INTERSECTION

SIGNAL SHEET 12 OF 13
(DOSS/WARFEL & RTE 32/72 SHEET 2 OF 3)

STATE OF MISSOURI — PATRICK M. SKAIN — NUMBER PE-2019017897 — PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/23/2025

ROUTE VAR. | STATE MO

DISTRICT CD | SHEET NO. 47

COUNTY DENT

JOB NO. JCD0129

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

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

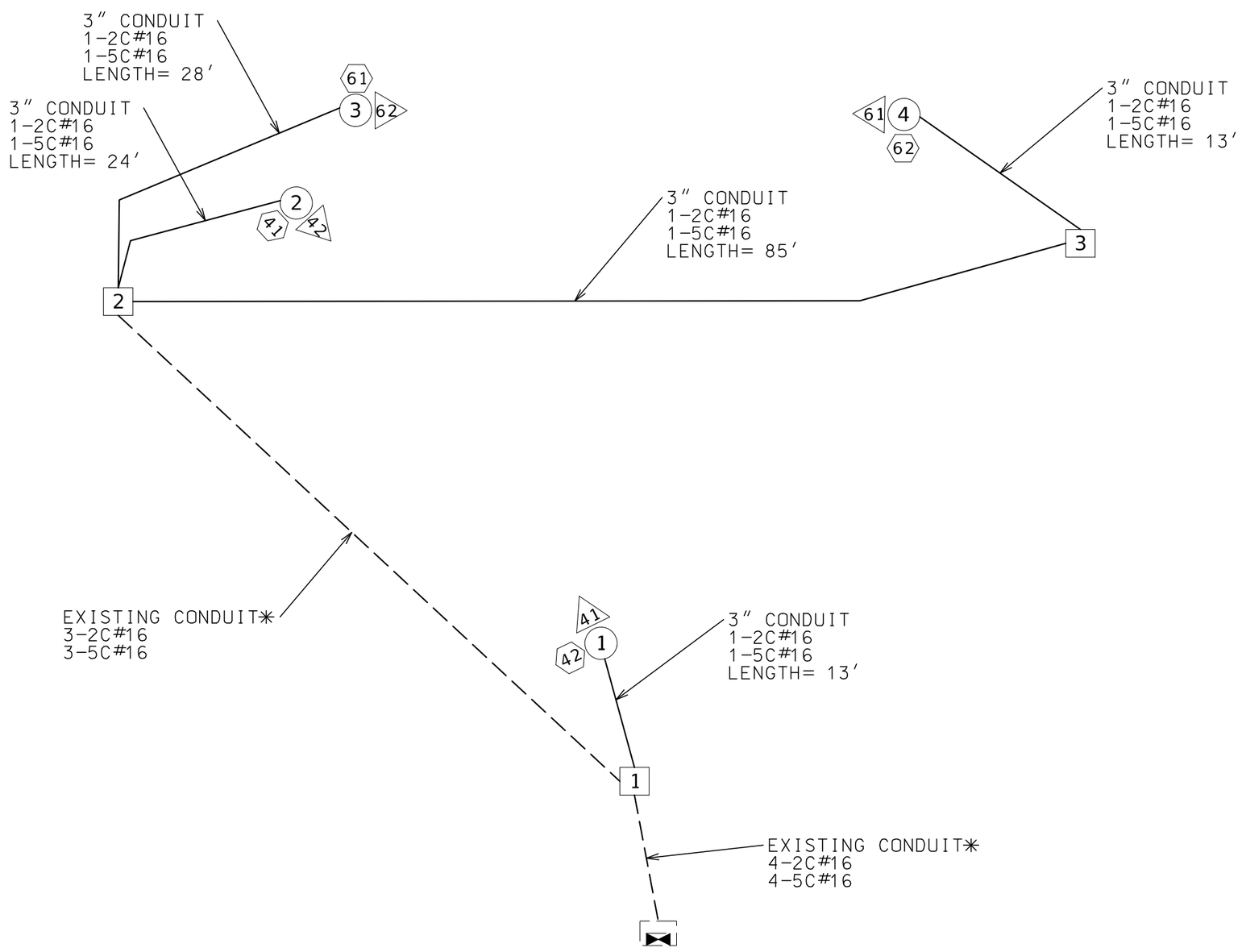
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOT TO SCALE

*CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONTAINS ADDITIONAL CABLES.

ROUTE 32/72 (SCENIC RIVERS BLVD) & DOSS RD/WARFEL ST

INTERSECTION

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	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
X	PULL BOX WITH NUMBER (EXISTING)
X	POST WITH NUMBER (EXISTING)
X	POST WITH MAST ARM (EXISTING)
X	DETECTOR WITH NUMBER (EXISTING)
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER (EXISTING)
	SIGNAL CONTROLLER (EXISTING)

SIGNAL SHEET 13 OF 13
(DOSS/WARFEL & RTE 32/72 SHEET 3 OF 3)

D-37D

STATE OF MISSOURI
PATRICK M. SKAIN
NUMBER PE-2019017897
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
10/23/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
CD	48
COUNTY	
DENT	
JOB NO.	
JCD0129	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

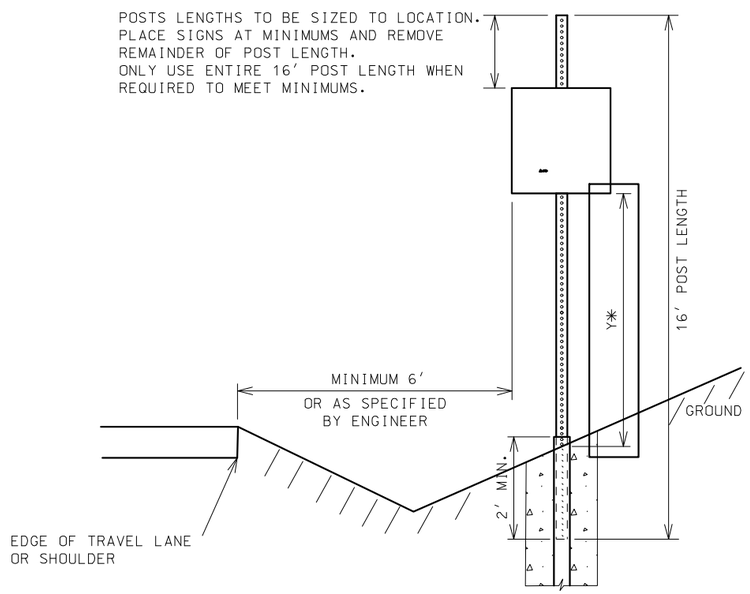
DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

MOUNTING HEIGHT DETAIL



✳ FOR RURAL AREAS – 80″ MINIMUM REQUIRED WHEN SIGNS ARE LOCATED ALONG AND WITHIN A PEDESTRIAN ROUTE. IN SITUATIONS WHERE THE SIGN IS NOT LOCATED WITHIN THE PEDESTRIAN ROUTE THE MINIMUM HEIGHT COULD BE REDUCED TO 7′ IF 80″ IS NOT ACHEIVABLE WITH A 16′ POST.
FOR URBAN AREAS – MINIMUM REQUIRED HEIGHT SHALL BE 84″ WHETHER OR NOT IT IS WITHIN A PEDESTRIAN ROUTE

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"

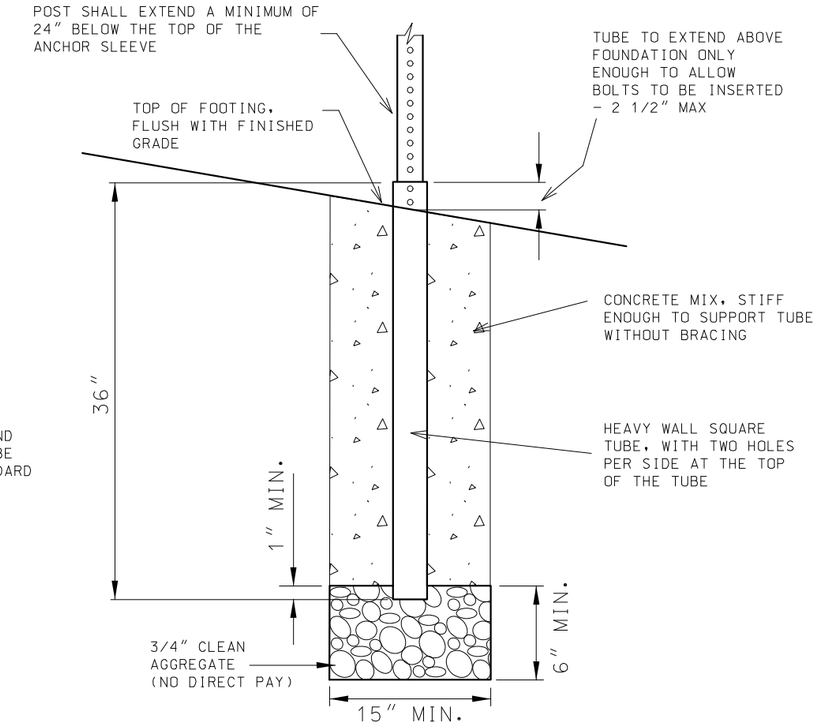
POSTS – 12 GAUGE – 2.5″ X 2.5″

ANCHORS – 7 GAUGE – 3″ X 3″ O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT USE REQUIRED FOR DOUBLE POST INSTALLATIONS ONLY

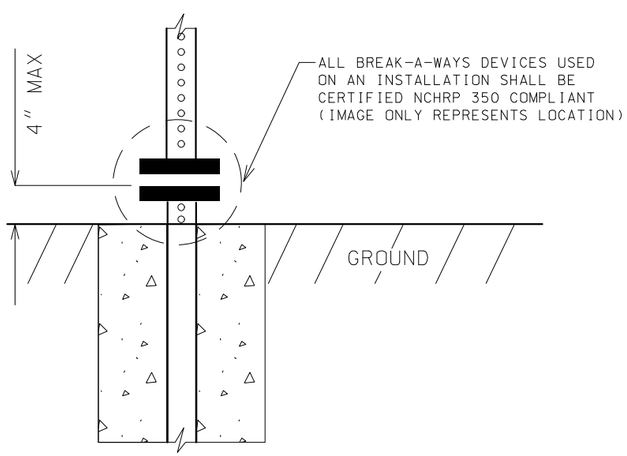
GALVANIZATION – ALL PSST POSTS, ANCHORS AND BREAKAWAY CASTINGS SHALL BE GALVANIZED PER MoDOT STANDARD SPECIFICATIONS

CONCRETE FOOTING DETAIL



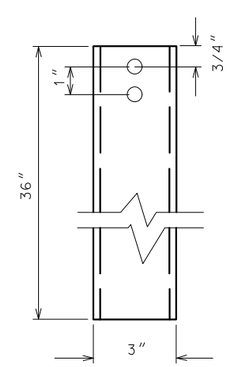
PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3′ LENGTH, 15″ DIAMETER = 0.14 CUBIC YARDS REQUIRED AGGREGATE CONSIDERED INCIDENTIAL AND INCLUDED IN CONCRETE FOOTING

BREAKAWAY DETAIL



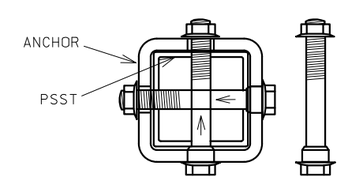
WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4″ ABOVE THE FINISHED GRADE

7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5″ PSST



ANCHOR BOLT DETAIL FOR 2.5″ PSST

2 SHOULDER BOLTS REQUIRED
INSTALLED PERPENDICULAR TO EACH OTHER



3/8″ X 3.5″ SHOULDER BOLT AND NUT

SIGNING SHEET
SHEET 1 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
10/23/2025	
ROUTE: VAR.	STATE: MO
DISTRICT: CD	SHEET NO.: 49
COUNTY: DENT	
JOB NO.: JCD0129	
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)

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 07-01-2024

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													REMARKS AND OTHER REQUIRED ITEMS
																		2" X 3/8" BARS @ 2.55 LBS PER FT					2 IN. POST						2.5 IN. POST							
																										ANCHORS								ANCHORS		BREAK-AWAY ASSEMBLY	
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS		IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
RTE. 19																																					
1	VARIES	36+34.18	44.39'	RIGHT																									0		0		1			REUSE EXISTING POST & BACKING BARS
2	48 X 48	37+03.94	72.83'	RIGHT																									16		16		1			
RTE. 32/72 EAST																																					
3	48 X 48	0+47.56	68.68'	LEFT																									16		16		1			
4	VARIES	0+83.51	49.00'	LEFT																									16		16		1			REUSE EXISTING BACKING BARS
5	36 X 36	3+17.39	41.84'	LEFT																									16		16		1			
6	36 X 36	6+50.07	38.75'	LEFT																									16		16		1			
7	36 X 36	13+39.94	41.80'	LEFT																									0		0		1			REUSE EXISTING POST
RTE. 32/72 WEST																																					
8	VARIES	1+36.63	44.09'	RIGHT																									16		16		1			REUSE EXISTING BACKING BARS
9	VARIES	3+81.35	46.95'	RIGHT																									16		16		1			REUSE EXISTING BACKING BARS
10	36 X 36	10+40.64	47.60'	RIGHT																									16		16		1			
11	36 X 36	27+30.67	47.94'	RIGHT																									16		16		1			
SUBTOTAL																															144		11			
TOTAL																					**										144		11			

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST					FOOTING								
POST DES. NO.	NOM. SIZE	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGNING SHEET
SHEET 2 OF 2

D-29

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

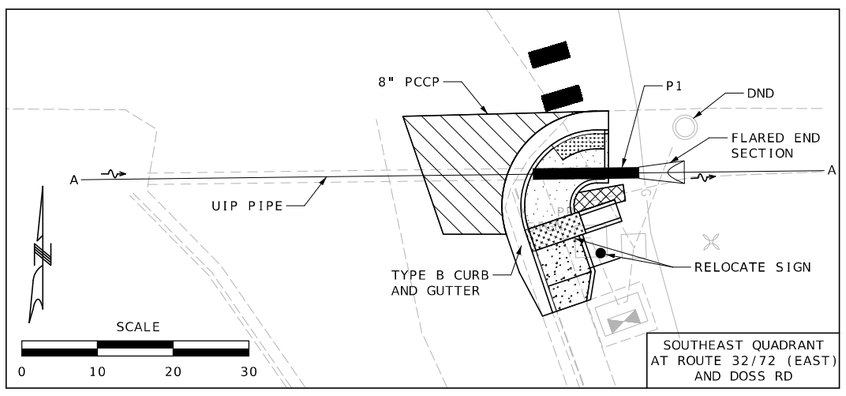
DATE PREPARED 10/23/2025
ROUTE VAR. | STATE MO
DISTRICT CD | SHEET NO. 50
COUNTY DENT
JOB NO. JCD0129
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

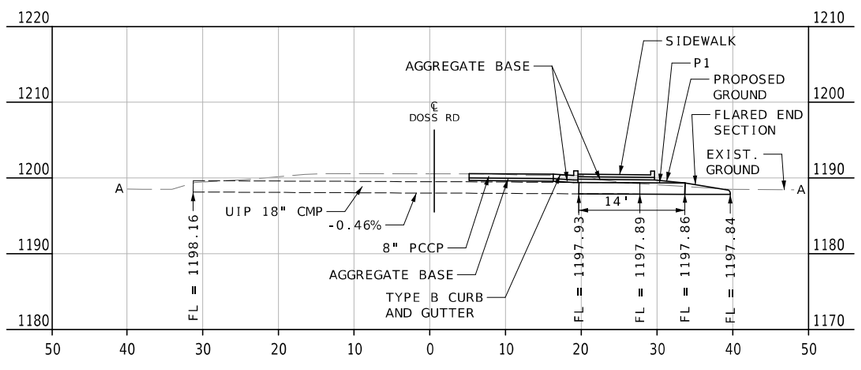
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



ROUTE 72/32 - STA. 20+02, 31.95' RT.
EXTEND 18" X 14' LEFT
GROUP C PIPE, INCLUDES CLAMP
1-18" FLARED END SECTION
GRADE TO DRAIN
EXCAVATION = 4.9 CY



CULVERT SECTION
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	10/23/2025
ROUTE	VAR.
STATE	MO
DISTRICT	CD
SHEET NO.	51
COUNTY	DENT
JOB NO.	JCD0129
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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