MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

ST. LOUIS CITY

DESIGN DESIGNATION

ROUTE D (SKINKER PKWY/KIENLEN AVE TO GRAND BLVD)

A.A.D.T. - 2023 = 11,329
A.A.D.T. - 2043 = 11,896
D.H.V. = 1,603
T = 9.6%
V = 35 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

ROUTE D (GRAND BLVD TO TUCKER BLVD)

A.A.D.T. - 2023 = 7,033
A.A.D.T. - 2043 = 7,051
D.H.V. = 844
T = 8.5%
V = 30 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

NO 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	
ELECTRIC METER	EM	
DROP INLET	DI	
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	

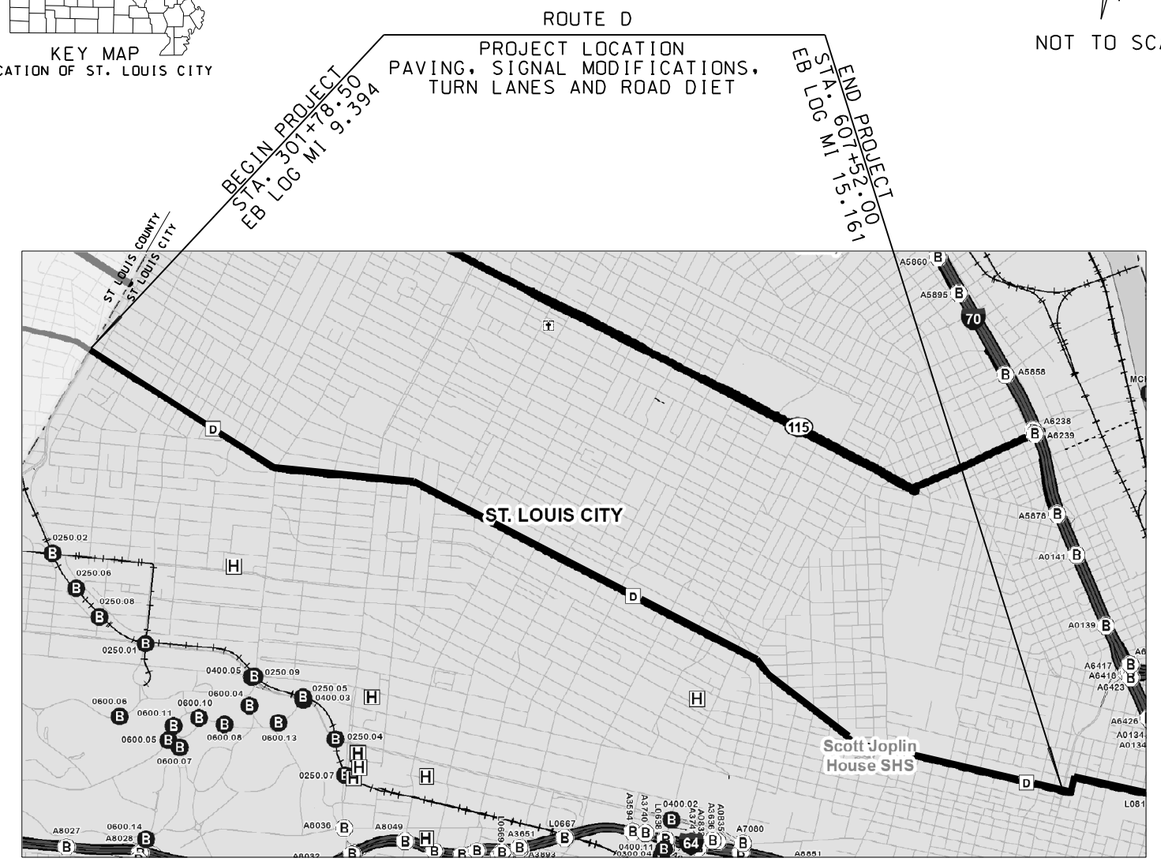
CURB RAMPS

COMPOUND PERPENDICULAR	COMP PERP RAMP
TYPE 2 PARALLEL	T2 PAR RAMP
SMALL RADIUS PERPENDICULAR	SR PERP RAMP
TRUNCATED DOMES	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

KEY MAP
LOCATION OF ST. LOUIS CITY

NOT TO SCALE



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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) (17 SHEETS)	3
PLAN (PL)	4-48
COORDINATE POINTS (CP)	49 - 50
REFERENCE POINTS (RP)	51
SPECIAL SHEETS (SS)	
CURB & MEDIAN DETAILS	52 - 95
BUMPOUT & MEDIAN DETAIL	96 - 97
DRIVEWAY DETAIL	98
CURB RAMP DETAILS	99
ST LOUIS CITY DETAILS	100
UTILITY COLLAR DETAILS	101
FOOTING DETAILS	102
TRAFFIC CONTROL (TC)	103 - 108
SIGNALS (SG)	109 - 207
SIGNING (SN)	208

ABBREVIATIONS

REMOVE	R
USE IN PLACE	UIP
REMOVE AND REPLACE	R&R
DO NOT DISTURB	DND
ADJUST TO GRADE	ATG
ADJUST TO GRADE BY OTHERS	ATGBO
REMOVE AND RELOCATE	R&RELOC
REMOVE AND SALVAGE	R&SALVAGE
CONSTRUCTION	CONSTR.
BY OTHERS	BO

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	301+78.50
END OF PROJECT	STA.	607+52.00
APPARENT LENGTH		30,573.50 FEET
TOTAL CORRECTIONS		0 FEET
NET LENGTH OF PROJECT		30,573.50 FEET
STATE LENGTH		5.79 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED AREA		0.23 ACRES

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	1

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

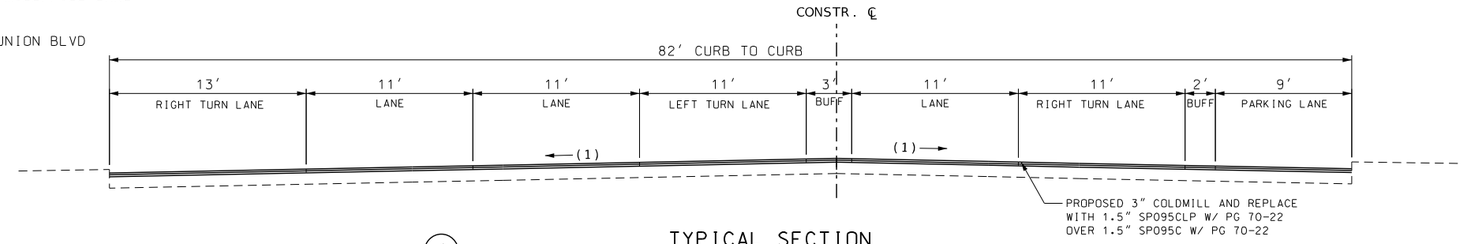
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

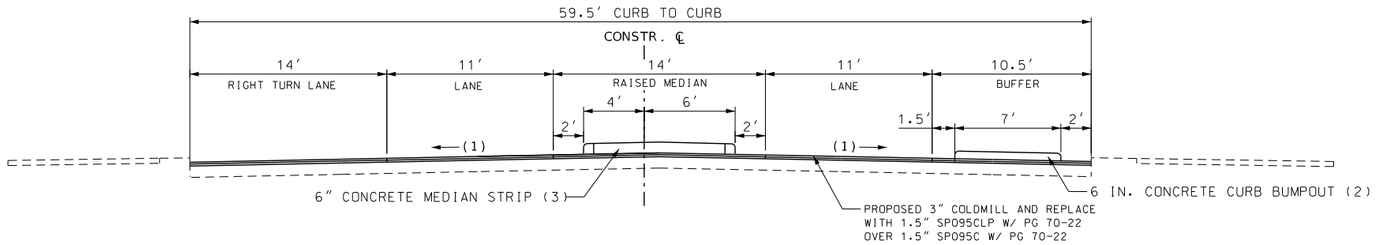
EXISTING PAVEMENT HISTORY (FOR INFORMATION ONLY)

2008 - J6P1971
ST LOUIS CITY LIMIT TO TUCKER BLVD
1 -3/4" SP095C (PG70-22) MILL/FILL LANE

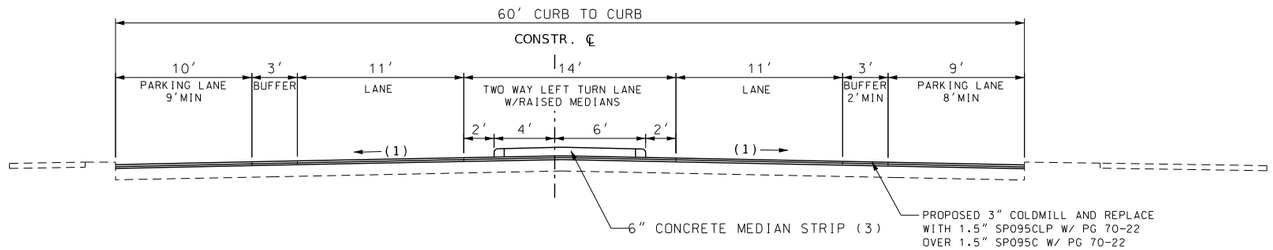
1936 - W/P.M.H.471B
ST LOUIS CITY LIMITS TO UNION BLVD
8" PCCP



1 TYPICAL SECTION
ROUTE D
SKINKER PKWY/KIENLEN AVE TO HODIAMONT AVE
STA. 301+78.50 TO STA. 306+31.00

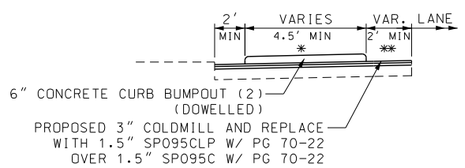


2 TYPICAL SECTION
ROUTE D
HODIAMONT AVE TO MID BLOCK
STA.306+31.00 TO STA. 307+27.00



3 TYPICAL SECTION
ROUTE D
MID BLOCK TO MONTCLAIR AVE
STA. 307+27.00 TO STA. 341+71.00

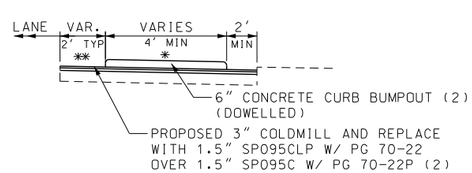
APPLICATION RATE (FOR INFORMATION ONLY)	
ASPHALTIC CONCRETE MIXTURE (TYPE SP095CLP)	1.913 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP095C)	1.913 TONS/CUYD
TACK COAT (NEW ASPHLAT SURFACE)	0.05 GAL/SQYD
TACK COAT (COLDMILLED SURFACE)	0.10 GAL/SQYD



L1 TYPICAL CONCRETE BUMPOUT
LEFT PARKING LANE

* WIDTH VARIES FROM 4.5' TO 14.5'
SEE MEDIAN & CURB DETAIL SHEETS

** WIDTH VARIES FROM 2' TO 4'
2' MIN FROM LANE LINE
1' MIN FROM BUFFER LINE



R1 TYPICAL CONCRETE BUMPOUT
RIGHT PARKING LANE

* WIDTH VARIES FROM 4' TO 10.5'
SEE MEDIAN & CURB DETAIL SHEETS

** WIDTH VARIES FROM 2' TO 4'
2' TYP FROM LANE LINE
1' MIN FROM BUFFER LINE

SEE PLAN SHEETS BUFFER FOR LAYOUT

NOTE:
(1) MATCH EXISTING, TYP 2%

(2) SEE PLANS FOR BUMPOUT LOCATIONS AND DETAILS AT PARKING LANES.

(3) SEE PLANS FOR RAISED MEDIAN LOCATIONS AND DETAILS.

SEE CITY OF ST LOUIS DETAIL INSTALLATION OR ADJUSTMENT OF GRANITE CURB FOR DETAILS THAT IMPACT EXISTING GRANITE CURBS

CONCRETE CURB BUMPOUTS PAID AS MEDIAN STRIP

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TYPICAL SECTIONS
ROUTE D
SHEET 1 OF 5

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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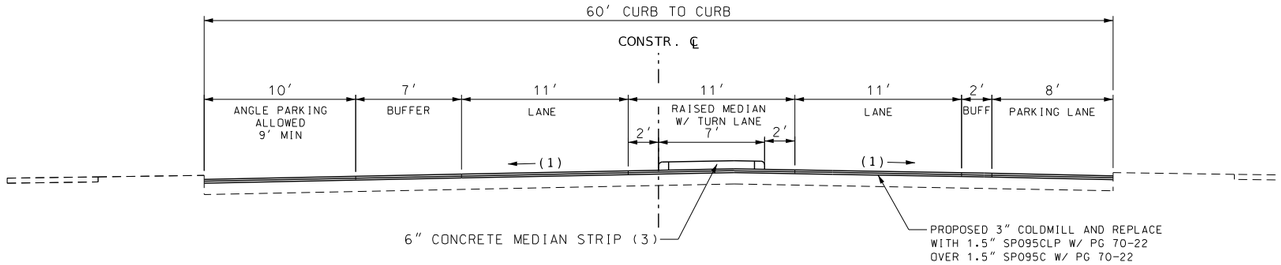
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

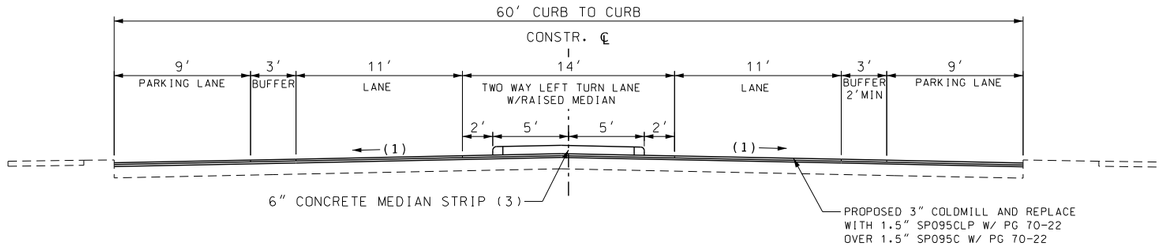
NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

c:\bms\gba-pw-01\amber peterein\dms23372\002_TS_01_J6S3438_i5.dgn 9:35:33 AM 1/30/2026



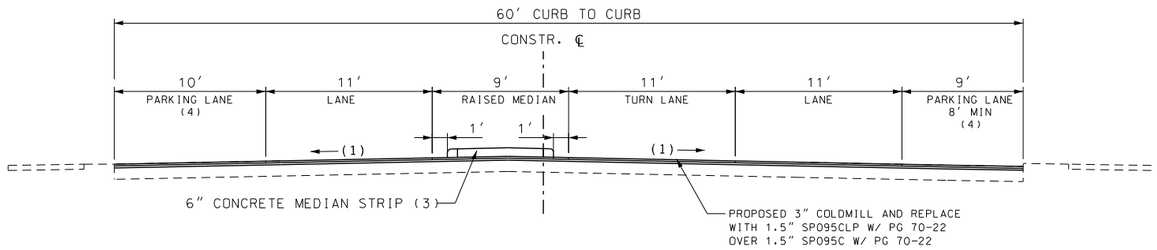
4 TYPICAL SECTION ROUTE D

MONTCLAIR AVE TO MID BLOCK
CLARENDON AVE TO ACADEMY AVE
STA. 341+71.00 TO STA. 345+79.00
STA. 370+00.00 TO STA. 387+30.00



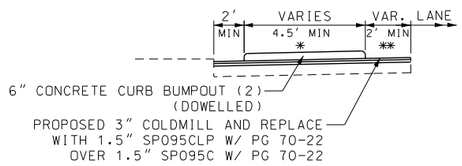
5 TYPICAL SECTION ROUTE D

MID BLOCK TO EAST OF UNION BLVD
STA. 345+79.00 TO STA. 370+00.00



6 TYPICAL SECTION ROUTE D

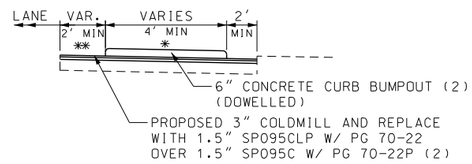
ACADEMY AVE TO MARCUS AVE
STA. 387+30.00 TO STA. 413+47.00



L1 TYPICAL CONCRETE BUMPOUT LEFT PARKING LANE

* WIDTH VARIES FROM 4.5' TO 14.5'
SEE MEDIAN & CURB DETAIL SHEETS

** WIDTH VARIES FROM 2' TO 4'
2' MIN FROM LANE LINE
1' MIN FROM BUFFER LINE



R1 TYPICAL CONCRETE BUMPOUT RIGHT PARKING LANE

* WIDTH VARIES FROM 4' TO 10.5'
SEE MEDIAN & CURB DETAIL SHEETS

** WIDTH VARIES FROM 2' TO 4'
2' MIN FROM LANE LINE
1' MIN FROM BUFFER LINE

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NOTE:
(1) MATCH EXISTING, TYP 2%

(2) SEE PLANS FOR BUMPOUT LOCATIONS, DETAILS, AND BUFFERS.

(3) SEE PLANS FOR RAISED MEDIAN LOCATIONS AND DETAILS.

AT CURB BUMPOUTS ALLOW 2' MINIMUM AT ALL EXISTING CURBS FOR DRAINAGE.

CONCRETE CURB BUMPOUTS PAID AS MEDIAN STRIP.

RAISED MEDIAN PAID AS MEDIAN STRIP.

(4) SEE PLANS FOR 2' BUFFER LOCATIONS.

TYPICAL SECTIONS
ROUTE D
SHEET 2 OF 5

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE
REV.		

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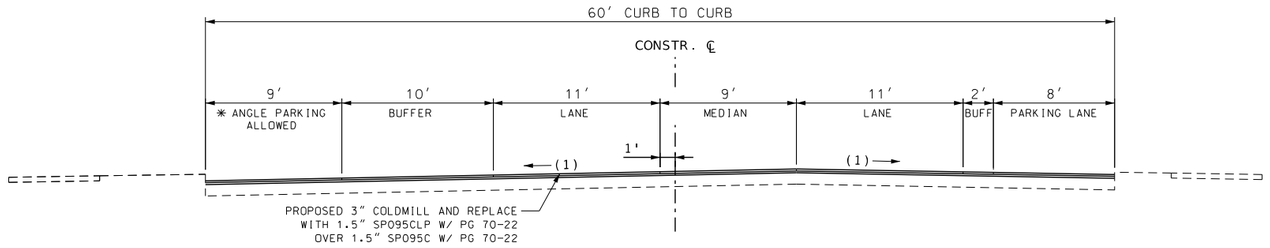
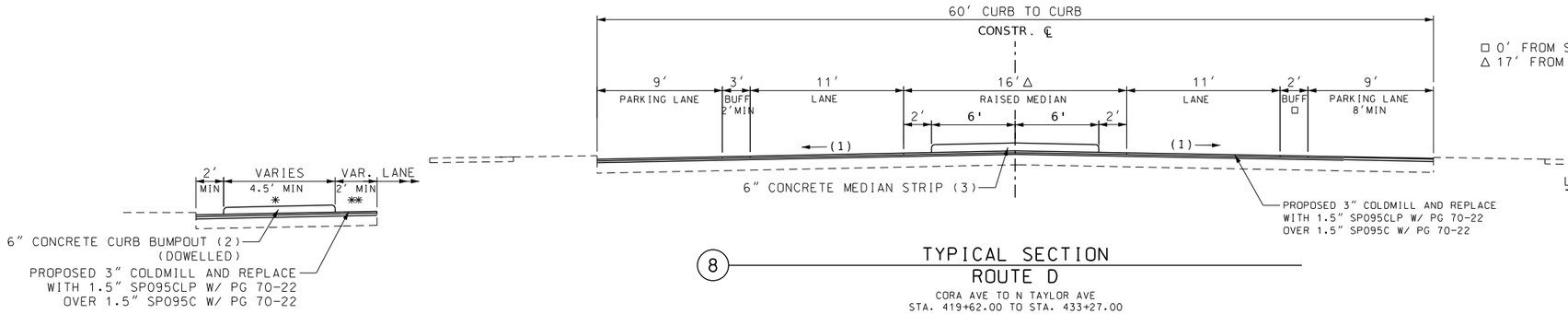


7 TYPICAL SECTION
ROUTE D

MARCUS AVE TO N CORA AVE
STA. 413+47.00 TO STA. 419+62.00



□ 0' FROM STA. 423+15.00 TO STA. 433+10.00
△ 17' FROM STA. 423+15.00 TO STA. 433+10.00

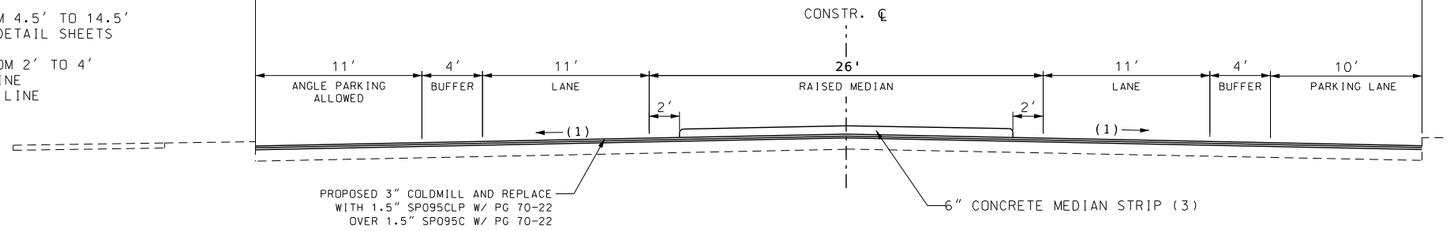
8 TYPICAL SECTION
ROUTE D

CORA AVE TO N TAYLOR AVE
STA. 419+62.00 TO STA. 433+27.00

L1 TYPICAL CONCRETE BUMPOUT
LEFT PARKING LANE

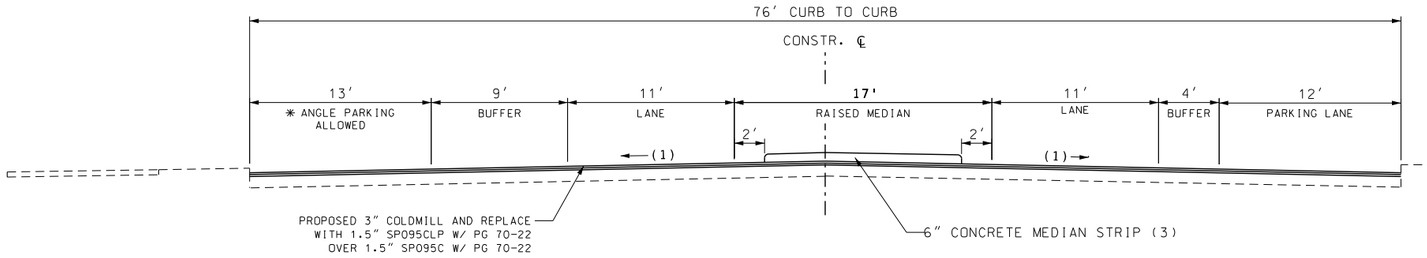
✳ WIDTH VARIES FROM 4.5' TO 14.5'
SEE MEDIAN & CURB DETAIL SHEETS

✳✳ WIDTH VARIES FROM 2' TO 4'
2' MIN FROM LANE LINE
1' MIN FROM BUFFER LINE



9 TYPICAL SECTION
ROUTE D

N TAYLOR AVE TO N NEWSTEAD AVE
STA. 433+27.00 TO STA. 442+87.00



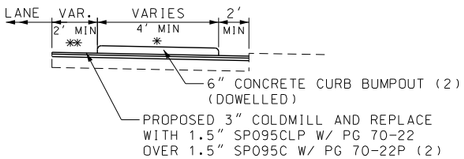
10 TYPICAL SECTION
ROUTE D

N NEWSTEAD AVE TO PENDLETON AVE
STA. 442+87.00 TO STA. 451+53.00

R1 TYPICAL CONCRETE BUMPOUT
RIGHT PARKING LANE

✳ WIDTH VARIES FROM 4' TO 10.5'
SEE MEDIAN & CURB DETAIL SHEETS

✳✳ WIDTH VARIES FROM 2' TO 4'
2' MIN FROM LANE LINE
1' MIN FROM BUFFER LINE



NOTE:
(1) MATCH EXISTING, TYP 2%

(2) SEE PLANS FOR BUMPOUT LOCATIONS AND DETAILS.

(3) SEE PLANS FOR RAISED MEDIAN LOCATIONS AND DETAILS.

AT CURB BUMPOUTS ALLOW 2' MINIMUM AT ALL EXISTING CURBS FOR DRAINAGE

CONCRETE CURB BUMPOUTS PAID AS MEDIAN STRIP

TYPICAL SECTIONS
ROUTE D
SHEET 3 OF 5

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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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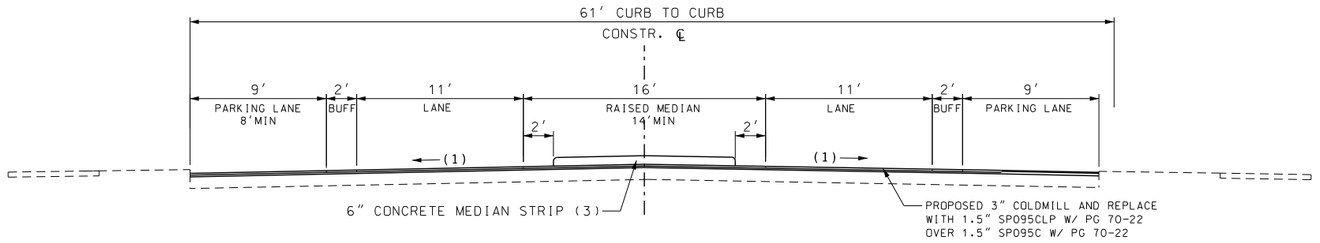
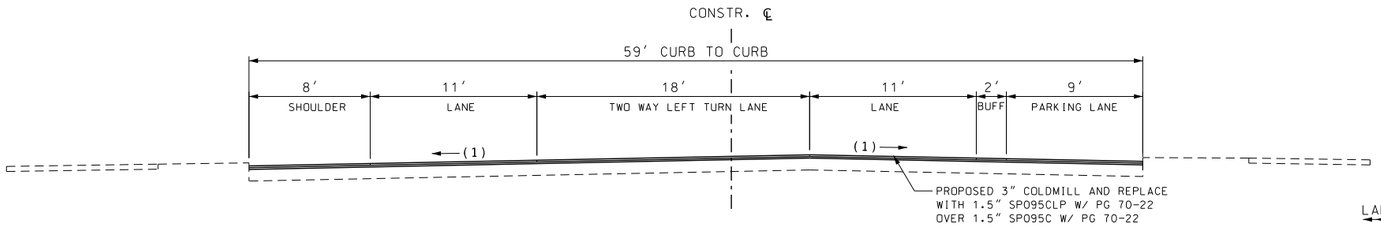
NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

REV.



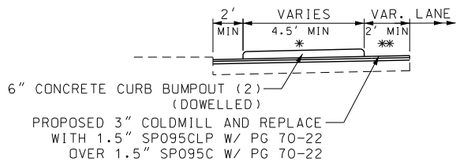
(11) TYPICAL SECTION
ROUTE D

PENDLETON AVE TO N SPRING AVE
STA. 451+53.00 TO STA. 499+33.00



(12) TYPICAL SECTION
ROUTE D

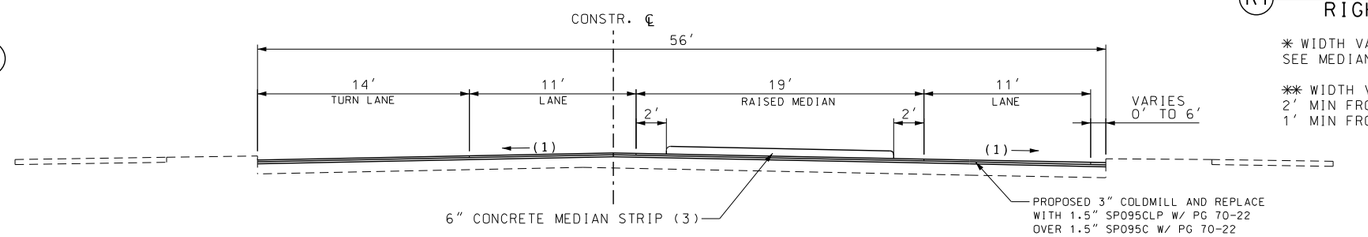
N SPRING AVE TO GRAND BLVD
STA. 499+33.00 TO STA. 505+50.00



(L1) TYPICAL CONCRETE BUMPOUT
LEFT PARKING LANE

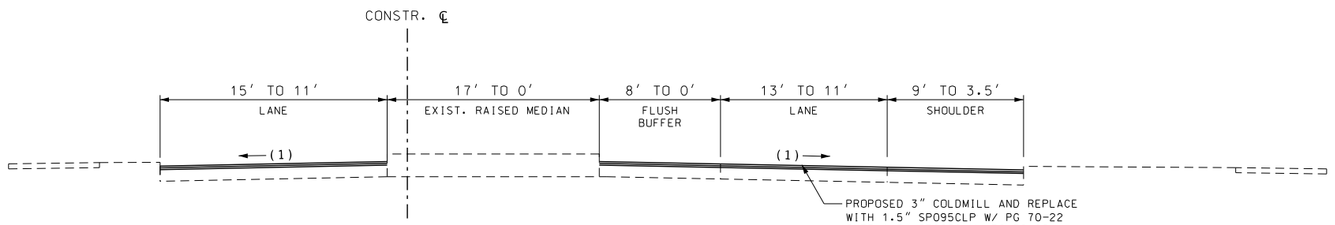
* WIDTH VARIES FROM 4.5′ TO 14.5′
SEE MEDIAN & CURB DETAIL SHEETS

** WIDTH VARIES FROM 2′ TO 4′
2′ MIN FROM LANE LINE
1′ MIN FROM BUFFER LINE



(13) TYPICAL SECTION
ROUTE D

GRAND BLVD. TO BLUEMEYER ST./ DR. M.L. KING DRIVE
STA. 505+50.00 TO STA. 510+67.00



(14) TYPICAL SECTION
ROUTE D

BLUEMEYER ST./ DR. M.L. KING DRIVE INTERSECTION
STA. 510+67.00 TO STA. 512+01.00

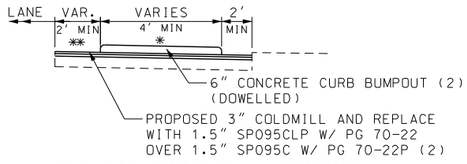
NOTE:
(1) MATCH EXISTING, TYP 2%

(2) SEE PLANS FOR BUMPOUT LOCATIONS AND DETAILS.

(3) SEE PLANS FOR RAISED MEDIAN LOCATIONS AND DETAILS.

AT CURB BUMPOUTS ALLOW 2′ MINIMUM AT ALL EXISTING CURBS FOR DRAINAGE

CONCRETE CURB BUMPOUTS PAID AS MEDIAN STRIP



(R1) TYPICAL CONCRETE BUMPOUT
RIGHT PARKING LANE

* WIDTH VARIES FROM 4′ TO 10.5′
SEE MEDIAN & CURB DETAIL SHEETS

** WIDTH VARIES FROM 2′ TO 4′
2′ MIN FROM LANE LINE
1′ MIN FROM BUFFER LINE

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

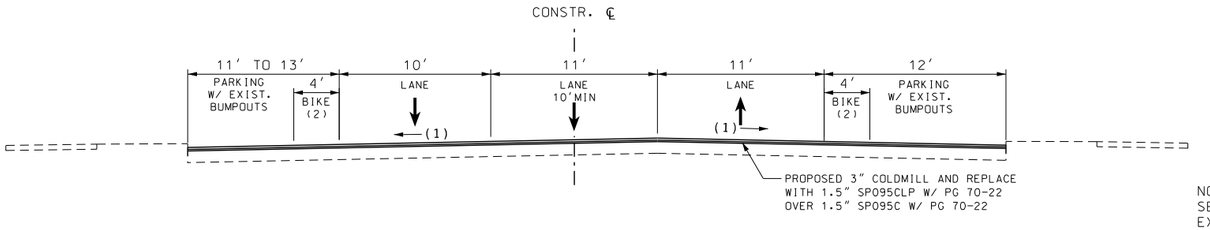
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

TYPICAL SECTIONS
ROUTE D
SHEET 4 OF 5



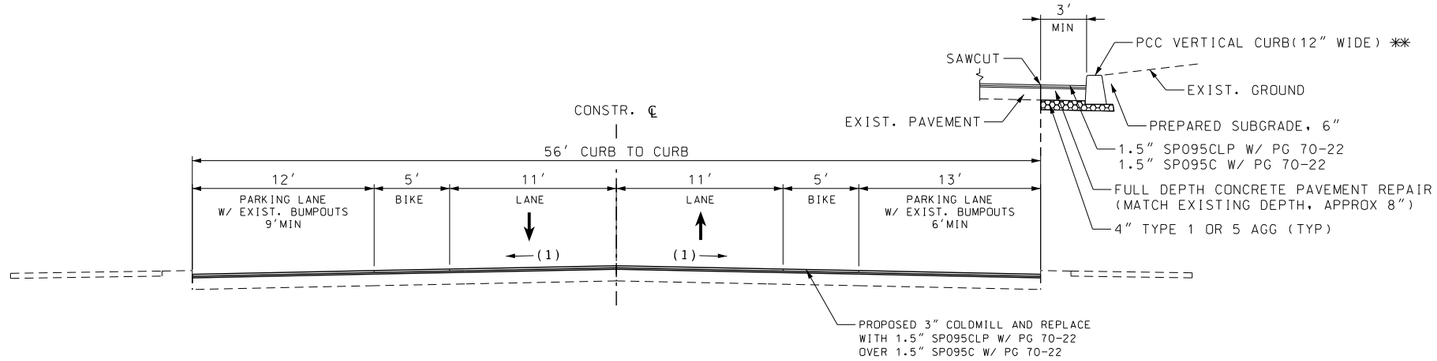
15 TYPICAL SECTION
ROUTE D
BLUEMEYER ST./ DR. M.L. KING DRIVE TO N COMPTON AVE./THOMAS ST.
STA. 512+01.00 TO STA. 519+50.00

NOTE:
SEE PLANS FOR EXISTING CURB BUMPOUT LOCATIONS
EXISTING CURB BUMPOUTS FROM STA 514+88 TO STA 556+50

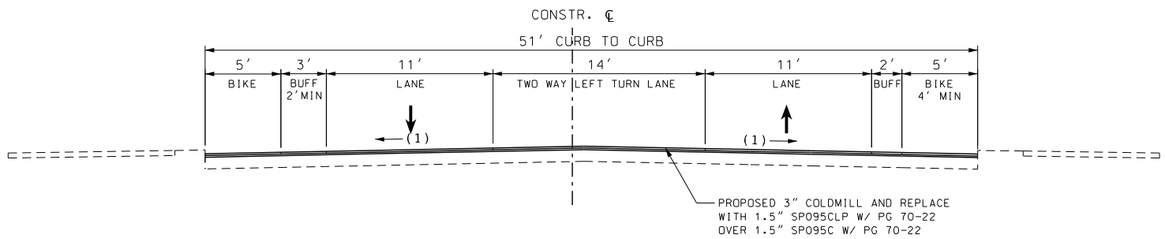
(1) MATCH EXISTING, TYP 2%

(2) BIKE LANE BEGINS STA. 514+45

✻✻ SEE CITY OF ST LOUIS DETAIL PCC VERTICAL CURB FOR ADDITIONAL DETAILS



16 TYPICAL SECTION
ROUTE D
N COMPTON AVE./THOMAS ST. TO JEFFERSON AVE.
STA. 519+50.00 TO STA. 557+99.00



17 TYPICAL SECTION
ROUTE D
JEFFERSON AVE TO TUCKER BLVD
STA. 597+99.00 TO STA. 607+52.00

TYPICAL SECTIONS
ROUTE D
SHEET 5 OF 5

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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

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REV. | DESCRIPTION | DATE

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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (1 OF 2)										
SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOCATION	AREA (SQFT)	AREA (SQYD)	LENGTH (LF)	EACH	DESCRIPTION OF REMOVAL	REMARKS
4	Route D	303+44.00	303+61.00	RT	84.0	9.3			MEDIAN/SIDEWALK REMOVAL	
4	Route D	305+60.00	305+81.00	LT	188.6	21.0			RAMP REMOVAL	
4	Route D	305+69.00	305+83.00	RT	98.7	11.0			RAMP REMOVAL	
4	Route D	306+25.00	306+30.00	LT	30.8	3.4			RAMP REMOVAL	
4	Route D	306+34.00	306+39.00	RT	32.8	3.6			RAMP REMOVAL	
4	Route D	306+66.00	306+91.00	RT	161.8	18.0			BUS STOP PAD REMOVAL	
8	Route D	331+67.00	332+04.00	LT	256.0	28.4			ENTRANCE REMOVAL	
8	Route D	332+06.48	332+11.48	LT	31.5	3.5			SIDEWALK	
8	Route D	332+12.56	332+17.66	RT	29.0	3.2			SIDEWALK	
8	Route D	333+04.47	333+04.47	LT				1	SIGN ONLY	R7-1L
8	Route D	334+44.51	334+44.51	LT				1	SIGN ONLY	W11-2
8	Route D	334+66.28	334+66.28	RT				1	SIGN AND BASE	R7-SP
9	Route D	339+78.00	339+78.00	RT				1	SIGN AND BASE	W11-2
9	Route D	340+96.42	340+96.42	RT				1	SIGN ONLY	R7-1R
9	Route D	341+02.49	341+21.12	LT			36		CURB	
9	Route D	341+13.76	341+20.62	LT	43.0	4.8			RAMP REMOVAL	
9	Route D	341+31.82	341+36.82	RT	28.4	3.2			RAMP REMOVAL	
9	Route D	341+54.18	341+59.18	LT	33.7	3.7			RAMP REMOVAL	
9	Route D	341+69.52	341+74.52	RT	28.2	3.1			SIDEWALK REMOVAL	
9	Route D	341+69.52	341+74.54	RT	25.0	2.8			SIDEWALK REMOVAL	
9	Route D	342+08.13	342+08.13	LT				1	SIGN ONLY	R7-1L
10	Route D	343+64.52	343+64.52	LT				1	SIGN AND BASE	R7-8R
10	Route D	343+89.24	343+89.24	LT				1	SIGN ONLY	R7-SP
10	Route D	346+67.73	346+67.73	LT				1	SIGN ONLY	R7-1L
10	Route D	347+41.00	347+41.00	LT				1	SIGN AND BASE	R7-SP
11	Route D	348+19.35	348+19.35	RT				1	SIGN AND BASE	R7-1D
11	Route D	349+20.40	349+20.40	LT				1	SIGN ONLY	R7-SP
11	Route D	353+32.05	353+39.91	LT	38.0	4.2			RAMP REMOVAL	
11	Route D	353+34.50	353+39.50	RT	25.0	2.8			SIDEWALK REMOVAL	
11	Route D	353+34.50	353+39.50	RT	12.5	1.4			SIDEWALK REMOVAL	
13	Route D	373+06.28	373+16.28	LT	60.0	6.7			CURB REMOVAL	
15	Route D	380+05.04	380+05.04	LT				1	SIGN AND BASE	R7-SP
15	Route D	381+64.31	381+64.31	LT				1	SIGN AND BASE	R7-SP
15	Route D	383+62.47	383+62.47	RT				1	SIGN AND BASE	R7-1L
19	Route D	403+87.34	403+87.34	RT				1	SIGN AND BASE	M1-5a
19	Route D	403+87.34	403+87.34	RT				1	SIGN AND BASE	M5-2R
19	Route D	404+26.33	404+26.33	LT				1	SIGN AND BASE	R7-1D
20	Route D	412+18.67	412+18.67	LT				1	SIGN AND BASE	R7-SP
20	Route D	415+12.34	415+17.34	RT			25		RAMP REMOVAL	
20	Route D	415+13.95	415+22.28	LT			43		RAMP REMOVAL	
20	Route D	415+55.70	415+55.70	LT				1	SIGN AND BASE	R7-1D
21	Route D	416+83.84	416+83.84	RT				1	SIGN AND BASE	R7-SP
21	Route D	418+81.06	419+80.98	LT				1	SIGN AND BASE	R7-SP
21	Route D	420+96.31	421+01.31	RT	25.0	2.8			RAMP REMOVAL	
21	Route D	420+96.31	421+01.31	RT	25.0	2.8			SIDEWALK REMOVAL	
21	Route D	421+00.64	421+05.55	LT			25		SIDEWALK REMOVAL	
21	Route D	421+00.64	421+05.55	LT			25		RAMP REMOVAL	
22	Route D	423+16.91	423+16.91	LT				1	SIGN AND BASE	R7-SP
22	Route D	426+06.19	426+06.19	LT				1	SIGN AND BASE	W11-2
23	Route D	430+09.03	430+09.03	RT				1	SIGN AND BASE	R7-SP
26	Route D	450+72.09	450+72.09	LT				1	SIGN AND BASE	R7-SP
28	Route D	465+68.01	465+68.01	LT				1	SIGN AND BASE	R7-SP
29	Route D	467+14.32	467+14.32	LT				1	SIGN AND BASE	R7-SP
29	Route D	469+23.00	469+68.00	RT	218.1	24.2			DRIVEWAY REMOVAL	
29	Route D	469+88.56	469+88.56	LT				1	SIGN AND BASE	R7-SP
30	Route D	475+13.13	475+13.13	RT				1	SIGN AND BASE	R7-SP
30	Route D	478+01.98	478+01.98	RT				1	SIGN AND BASE	R7-SP
30	Route D	479+74.03	479+74.03	RT				1	SIGN AND BASE	R7-SP
31	Route D	484+67.00	485+12.00	LT	133.4	14.8			ENTRANCE REMOVAL	
34	Route D	505+00.00	505+38.00	RT	159.4	17.7			ENTRANCE REMOVAL	
35	Route D	511+45.99	511+45.99	LT				1	SIGN AND BASE	W12-1
35	Route D	513+11.92	513+11.92	LT				1	SIGN AND BASE	ML KING DR
35	Route D	513+11.92	513+11.92	LT				1	SIGN AND BASE	PAGE BLVD
35	Route D	514+47.88	514+47.88	RT				1	SIGN ONLY	W11-1
35	Route D	514+47.88	514+47.88	RT				1	SIGN ONLY	W16-1P
35	Route D	514+52.00	514+89.00	LT			31		CURB REMOVAL	
36	Route D	516+19.41	516+19.41	LT				1	SIGN AND BASE	W16-1P
36	Route D	516+19.41	516+19.41	LT				1	SIGN AND BASE	W11-1
36	Route D	516+23.00	516+42.00	LT			26		CURB REMOVAL	
36	Route D	516+66.00	516+89.00	LT			30		CURB REMOVAL	
36	Route D	517+87.00	518+22.00	LT			33		CURB REMOVAL	

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (2 OF 2)										
SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOCATION	AREA (SQFT)	AREA (SQYD)	LENGTH (LF)	EACH	DESCRIPTION OF REMOVAL	REMARKS
36	Route D	517+90.00	518+17.00	RT			31		CURB REMOVAL	
37	Route D	529+31.71	529+31.71	RT				1	SIGN ONLY	W11-1
37	Route D	529+31.71	529+31.71	RT				1	SIGN ONLY	W16-1P
38	Route D	532+97.81	532+97.81	RT				1	SIGN ONLY	R7-1L
38	Route D	533+65.00	533+98.00	LT			33		CURB REMOVAL	
39	Route D	539+53.15	539+53.15	LT				1	SIGN AND BASE	W16-1P
39	Route D	539+53.15	539+53.15	LT				1	SIGN AND BASE	W11-1
39	Route D	541+88.09	541+88.09	RT				1	SIGN AND BASE	R3-7R
40	Route D	545+48.82	545+48.82	RT				1	SIGN AND BASE	W11-2
40	Route D	545+48.82	545+48.82	RT				1	SIGN AND BASE	W16-7P
40	Route D	546+38.00	546+73.00	RT			35		CURB REMOVAL	
40	Route D	550+72.00	550+93.00	RT			20		CURB REMOVAL	
41	Route D	553+73.00	553+77.00	RT			46		CURB REMOVAL	
41	Route D	555+27.43	555+27.43	LT				1	SIGN ONLY	W16-1P
41	Route D	555+27.43	555+27.43	LT				1	SIGN ONLY	W11-1
41	Route D	556+49.00	556+74.00	LT			28		CURB REMOVAL	
41	Route D	558+67.68	558+67.68	LT				1	SIGN AND BASE	R3-7R
41	Route D	559+92.74	559+92.74	LT				1	SIGN AND BASE	R3-7R
42	Route D	565+87.69	565+87.69	RT				1	SIGN AND BASE	W11-2
42	Route D	565+87.69	565+87.69	RT				1	SIGN AND BASE	W16-7P
42	Route D	566+14.05	566+14.05	LT				1	SIGN AND BASE	W11-2
42	Route D	566+14.05	566+14.05	LT				1	SIGN AND BASE	W16-7P
44	Route D	574+46.34	574+46.34	LT				1	SIGN ONLY	W16-1P
44	Route D	574+46.34	574+46.34	LT				1	SIGN ONLY	W11-1
44	Route D	574+75.46	574+75.46	RT				1	SIGN ONLY	R1-3P
44	Route D	575+46.12	575+46.12	LT				1	SIGN ONLY	R1-3P
44	Route D	578+25.79	578+25.79	RT				1	SIGN ONLY	R7-1R

NOTE:
ABOVE LISTINGS ARE AN APPROXIMATE LIST OF REMOVAL OF IMPROVEMENTS AS PART OF THIS PROJECT.
ACTUAL ITEMS SHALL BE DETERMINED BY THE FIELD ENGINEER. ANY ADDITIONAL REMOVALS AND ANY SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM BID ITEM "REMOVAL OF IMPROVEMENTS.

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SUMMARY OF QUANTITIES
ROUTE D
SHEET 1 OF 17

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PROFESSIONAL ENGINEER
PE-2018040668

REV.

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SIDEWALK												
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CONCRETE SIDEWALK 4 IN. (SQYD)	CONCRETE SIDEWALK 7 IN. (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	ADA CURB RAMP (EA)			TRUNCATED DOMES (SF)	REMARKS
								COMPOUND PERPENDICULAR	TYPE 2 PARALLEL	SMALL RADIUS PERPENDICULAR		
4	ROUTE D	303+52.00	303+58.00	RT		15.3	15.3			1	25.0	SE CORNER SKINKER PKWY
4	ROUTE D	305+61.00	305+80.00	LT	5.6		13.2			1	11.5	
4	ROUTE D	305+69.00	305+88.00	RT	8.8						19.0	SW CORNER HODIAMONT
4	ROUTE D	307+15.00	307+21.00	LT	5.6	6.6	6.6	1			12.0	MEDIAN 1
4	ROUTE D	307+07.00	307+21.00	CL		8.4	8.4				24.0	MEDIAN 1
4	ROUTE D	307+06.00	307+12.00	RT	5.6	6.0	6.0	1			12.0	MEDIAN 1
4	ROUTE D	308+13.00	30820+00.00	RT		6.2	6.2					7'X8' BUS STOP PAD
8	ROUTE D	331+74.85	331+80.85	LT	5.6	6.8	6.8	1			12.0	MEDIAN 3
8	ROUTE D	331+74.85	331+80.85	CL		6.7	6.7				24.0	MEDIAN 3
8	ROUTE D	331+74.85	331+80.85	RT	5.6	6.7	6.7	1			12.0	MEDIAN 3
9	ROUTE D	340+89.00	340+95.00	LT	5.6	6.7	6.7	1			12.0	MEDIAN 7
9	ROUTE D	340+89.00	340+95.00	CL		4.0	4.0				24.0	MEDIAN 7
9	ROUTE D	340+89.00	340+95.00	RT	5.6	6.6	6.6	1			12.0	MEDIAN 7
10	ROUTE D	346+37.00	343+43.00	LT	5.6	6.4	6.4	1			12.0	MEDIAN 9
10	ROUTE D	346+37.00	343+43.00	CL		6.7	6.7				24.0	MEDIAN 9
10	ROUTE D	346+37.00	343+43.00	RT	5.6	5.7	5.7	1			12.0	MEDIAN 9
11	ROUTE D	354+10.00	354+16.00	LT	5.6	6.7	6.7	1			12.0	MEDIAN 10
11	ROUTE D	354+10.00	354+16.00	CL		6.7	6.7				24.0	MEDIAN 10
11	ROUTE D	354+10.00	354+16.00	RT	5.6	6.7	6.7	1			12.0	MEDIAN 10
12	ROUTE D	355+87.00	355+94.00	RT		6.2	6.2					7'X8' BUS STOP PAD
12	ROUTE D	357+11.00	357+17.00	LT	5.6	6.8	6.8	1			12.0	MEDIAN 11A
12	ROUTE D	357+05.00	357+17.00	CL		8.0	8.0				24.0	MEDIAN 11A
12	ROUTE D	357+05.00	357+11.00	RT	5.6	6.7	6.7	1			12.0	MEDIAN 11A
14	ROUTE D	372+25.00	372+31.00	LT	5.6	9.3	9.3	1			12.0	MEDIAN 13
14	ROUTE D	372+25.00	372+31.00	CL		5.3	5.3				24.0	MEDIAN 13
14	ROUTE D	372+25.00	372+31.00	RT	5.6	5.6	5.6	1			12.0	MEDIAN 13
14	ROUTE D	373+59.00	373+66.00	LT		6.2	6.2					7'X8' BUS STOP PAD
15	ROUTE D	382+56.00	382+64.00	LT		5.3	5.3				16.0	ACADEMY (EAST)
15	ROUTE D	382+57.00	382+63.00	CL		4.0	4.0				24.0	MEDIAN 15
15	ROUTE D	383+17.00	383+25.00	LT		5.3	5.3				16.0	ACADEMY (EAST)
17	ROUTE D	392+86.00	392+92.00	CL		4.7	4.7				24.0	MEDIAN 19
17	ROUTE D	393+80.72	393+86.72	CL		6.0	6.0				24.0	MEDIAN 20
20	ROUTE D	414+33.00	414+40.00	LT		8.6	8.6					7'X8' BUS STOP PAD
20	ROUTE D	415+50.00	415+56.00	LT	5.6	9.7	9.7	1			12.0	MEDIAN 27
20	ROUTE D	415+50.00	415+56.00	CL		4.0	4.0				24.0	MEDIAN 27
20	ROUTE D	415+50.00	415+56.00	RT	5.6	5.8	5.8	1			12.0	MEDIAN 27
21	ROUTE D	421+16.25	421+22.25	RT	5.6	5.3	5.3	1			12.0	MEDIAN 28
21	ROUTE D	421+16.25	421+28.25	CL		9.3	9.3				24.0	MEDIAN 28
21	ROUTE D	421+22.21	421+28.21	LT	5.6	5.4	5.4	1			12.0	MEDIAN 28
23	ROUTE D	433+15.45	433+21.45	CL		7.3	7.3				24.0	MEDIAN 32
25	ROUTE D	442+03.31	442+09.31	CL		7.3	7.3				24.2	MEDIAN 34
25	ROUTE D	442+76.55	442+82.55	CL		5.3	5.3				24.0	MEDIAN 35
31	ROUTE D	484+73.00	485+09.00	LT	46.0							DRIVEWAY REMOVAL
33	ROUTE D	502+95.00	503+01.00	LT	5.6		4.5	1			12.0	MEDIAN 48
33	ROUTE D	502+95.00	503+01.00	CL		9.3	9.3				24.0	MEDIAN 48
33	ROUTE D	502+95.00	503+01.00	RT	5.6	4.9	4.9	1			12.0	MEDIAN 48
34	ROUTE D	505+36.50	505+43.50	CL		3.7	3.7				24.0	MEDIAN 49
34	ROUTE D	506+22.00	506+28.00	CL		4.7	4.7				24.0	MEDIAN 50
35	ROUTE D	510+18.00	510+24.00	CL		10.0	10.0				24.0	MEDIAN 51
35	ROUTE D	513+05.94	513+11.94	RT	5.6		6.6	1			12.0	
35	ROUTE D	514+05.00	514+15.00	LT		5.9	5.9				24.0	
38	ROUTE D	533+73.00	533+79.00	LT	5.6					1	14.0	BIKE LANE CURB REMOVAL
	ROUTE D	VARIES	VARIES	VAR				10	5	5	80.0	LOCATE AS DIRECTED BY ENGINEER
RAMP SUBTOTAL:					-	-	-	31	5	8		
APPROACH AGGREGATE SUBTOTAL:							40.0					
SUBTOTAL :					183.6	304.8	369.1	44			913.7	
PROJECT TOTAL :					183.6	304.8	409	44			914	

NOTES:
ASSUMES AGGREGATE BASE AT 4 INCH SIDEWALK SUBSIDIARY TO CONCRETE SIDEWALK.

ASSUMES AGGREGATE BASE AT CURB RAMPS SUBSIDIARY TO CURB RAMPS.

ASSUMES 2 CONCRETE SIDEWALK PANELS FOR WARPING TO EACH RAMP. FIELD VERIFY PER LOCATION.

SODDING						
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	TURF TYPE TALL FESCUE SODDING (SQYD)	REMARKS
8	ROUTE D	331+67	332+04	LT	24.7	BLACKSTONE, ENTRANCE REMOVAL
9	ROUTE D	341+14	341+20	LT	32.0	MONTCLAIR, BUS PAD REMOVAL
9	ROUTE D	341+32	341+37	RT	5.5	MONTCLAIR, CURB RAMP REMOVAL
9	ROUTE D	341+32	341+60	LT	5.5	MONTCLAIR, CURB RAMP REMOVAL
9	ROUTE D	341+54	341+60	LT	5.5	MONTCLAIR, CURB RAMP REMOVAL
9	ROUTE D	341+70	341+74	RT	5.5	MONTCLAIR, CURB RAMP REMOVAL
11	ROUTE D	353+32	353+40	LT	5.5	SEMPLE, CURB RAMP REMOVAL
29	ROUTE D	469+23	469+68	RT	24.2	SARAH, ENTRANCE WIDTH REDUCTION
31	ROUTE D	484+67	485+12	LT	17.3	VANDEVENTER, ENTRANCE REMOVAL
34	ROUTE D	505+03	505+36	RT	14.7	FRENCH FRIE FACTORY, ENTRANCE REMOVAL
36	ROUTE D	516+43	546+66	LT	40.0	SENIOR LIVING ENTRANCE
	ROUTE D	VARIES	VARIES	VARIES	50.0	LOCATIONS AS DIRECTED BY ENGINEER
SUBTOTAL					230.4	
PROJECT TOTAL					230	

NOTES:
ASSUMES SOD BED PREPARTION AND TOPSOIL ARE SUBSIDIARY TO SODDING .

MOBILIZATION	
TOTAL	1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING	
TOTAL	1 LUMP SUM

ALTERNATIVE TYPE C BASE FOUNDATION	
TOTAL	34 EACH

ASPHALT RESEARCH - SP095CLP	
TOTAL	1 LUMP SUM

ASPHALT RESEARCH - SP095C	
TOTAL	1 LUMP SUM

DISCLAIMER
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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SUMMARY OF QUANTITIES
ROUTE D
SHEET 2 OF 17

MEDIAN STRIP (1 OF 3)								
SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOCATION	6 IN. CONRETE MEDIAN STRIP (SQYD)	6 IN. STAMPED AND STAINED MEDIAN STRIP (SQYD)	(18 IN.) (ISLAND) DELINEATOR POST (EA)	REMARKS
4	ROUTE D	303+45	303+70	RT	35.26		2	SE CORNER SKINKER PKWY
4	ROUTE D	305+55	307+22	CL		185.86	6	MEDIAN 1
4	ROUTE D	305+47	305+63	RT	7.36		2	CURB BUMPOUT
4	ROUTE D	305+87	306+02	LT	13.86		2	MEDIAN
4	ROUTE D	305+95	306+13	RT	17.01		2	MEDIAN
4	ROUTE D	305+61	305+76	LT	4.98		0	NW CORNER HODIAMONT
4	ROUTE D	306+25	306+30	LT	3.42		0	CURB RAMP REMOVAL
4	ROUTE D	306+34	306+39	RT	3.64		0	CURB RAMP REMOVAL
4	ROUTE D	306+95	307+23	RT	14.49		2	CURB BUMPOUT
4	ROUTE D	307+04	307+32	LT	15.94		2	CURB BUMPOUT
5	ROUTE D	308+68	308+96	RT	17.08		2	CURB BUMPOUT
5	ROUTE D	309+65	310+45	CL		97.61	6	MEDIAN 2
5	ROUTE D	310+79	310+94	LT	8.54		2	CURB BUMPOUT
5	ROUTE D	311+85	312+13	RT	17.08		2	CURB BUMPOUT
5	ROUTE D	314+32	314+47	RT	7.36		2	CURB BUMPOUT
6	ROUTE D	316+62	316+92	LT	21.14		2	CURB BUMPOUT
6	ROUTE D	319+03	319+18	RT	7.36		2	CURB BUMPOUT
7	ROUTE D	322+52	322+83	LT	21.14		2	CURB BUMPOUT
7	ROUTE D	322+93	323+09	RT	7.36		2	CURB BUMPOUT
7	ROUTE D	325+64	325+92	RT	17.08		2	CURB BUMPOUT
8	ROUTE D	328+82	329+12	RT	21.14		2	CURB BUMPOUT
8	ROUTE D	329+60	329+91	LT	21.14		2	CURB BUMPOUT
8	ROUTE D	331+55	331+95	CL		46.50	6	MEDIAN 3
8	ROUTE D	331+64	331+92	LT	16.63		2	CURB BUMPOUT
8	ROUTE D	331+64	331+92	RT	16.63		2	CURB BUMPOUT
8	ROUTE D	332+64	332+95	LT	21.14		2	CURB BUMPOUT
8	ROUTE D	332+82	333+35	CL		67.29	6	MEDIAN 4
8	ROUTE D	334+76	335+07	RT	21.14		2	CURB BUMPOUT
8	ROUTE D	335+70	336+35	CL		80.95	6	MEDIAN 5
9	ROUTE D	336+91	337+22	LT	7.36		2	CURB BUMPOUT
9	ROUTE D	337+03	337+18	RT	7.36		2	CURB BUMPOUT
9	ROUTE D	338+80	339+45	CL		57.78	6	MEDIAN 6
9	ROUTE D	340+78	341+07	CL	18.31		6	MEDIAN 7
9	ROUTE D	340+77	341+07	RT	17.50		2	CURB BUMPOUT
9	ROUTE D	340+77	341+07	LT	17.50		2	CURB BUMPOUT
9	ROUTE D	341+74	341+99	LT	25.21		2	CURB BUMPOUT
10	ROUTE D	343+66	343+97	CL		28.39	6	MEDIAN 8
10	ROUTE D	344+55	344+86	LT	21.14		2	CURB BUMPOUT
10	ROUTE D	346+24	346+55	LT	18.63		2	CURB BUMPOUT
10	ROUTE D	346+26	346+53	RT	12.33		2	CURB BUMPOUT
10	ROUTE D	346+35	346+95	CL		68.73	6	MEDIAN 9
11	ROUTE D	348+05	348+36	RT	21.14		2	CURB BUMPOUT
11	ROUTE D	349+01	349+16	LT	7.36		2	CURB BUMPOUT
11	ROUTE D	350+86	351+16	RT	21.14		2	CURB BUMPOUT
11	ROUTE D	352+96	353+27	LT	21.14		2	CURB BUMPOUT
11	ROUTE D	353+99	354+27	LT	16.64		2	CURB BUMPOUT
11	ROUTE D	354+05	354+22	CL	20.95		6	MEDIAN 10
11	ROUTE D	353+99	354+27	RT	16.64		2	CURB BUMPOUT
12	ROUTE D	355+53	355+68	LT	7.36		2	CURB BUMPOUT
12	ROUTE D	356+92	357+24	RT	18.63		2	CURB BUMPOUT
12	ROUTE D	356+96	357+95	CL		107.20	6	MEDIAN 11A
12	ROUTE D	356+98	357+30	LT	18.63		2	CURB BUMPOUT
13	ROUTE D	363+22	364+24	CL	34.79		2	MEDIAN 11B
13	ROUTE D	363+78	363+93	LT	7.36		2	CURB BUMPOUT
13	ROUTE D	365+41	366+28	CL	29.79		2	MEDIAN 12
14	ROUTE D	369+95	370+23	RT	17.08		2	CURB BUMPOUT
14	ROUTE D	371+54	372+36	CL		73.14	6	MEDIAN 13
14	ROUTE D	372+08	372+48	LT	34.33		2	CURB BUMPOUT
14	ROUTE D	372+15	372+41	RT	12.33		2	CURB BUMPOUT
14	ROUTE D	375+04	375+96	CL		76.61	6	MEDIAN 14
15	ROUTE D	377+78	378+57	CL		64.94	6	MEDIAN 15A
15	ROUTE D	379+27	379+47	LT	19.26		2	CURB BUMPOUT
15	ROUTE D	380+47	380+80	RT	11.26		2	CURB BUMPOUT
SUBTOTAL 1:					839.09	955.00	176	

NOTE:
CURB BUMPOUT PAID AS CONCRETE MEDIAN STRIP.

PAVEMENT REPAIR												
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	LENGTH (LF)	WIDTH (LF)	REPAIR AREA (SF)	FURNISHING AND PLACING CONCRETE MATERIAL FOR FULL DEPTH PAVEMENT REPAIR (SY)	SUBGRADE COMPACTION (6 IN DEPTH) (PAVEMENT REPAIR) (SY)	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN THICK) (PAVEMENT REPAIR) (SY)	FULL DEPTH PAVEMENT REPAIR SAW CUT (FOR PERIMETER AND INTERNAL SAW CUTS) (LF)	REMARKS
35	ROUTE D	514+52	514+87	LT	35.0	8.0	280.0	31.1	31.1	38	51	BIKE LANE CURB REMOVAL
36	ROUTE D	516+23	516+89	LT	67.0	6.0	402.0	44.7	44.7	49	79	CURB REMOVAL, SENIOR LIVING ENTR
36	ROUTE D	517+87	518+22	LT	35.0	5.0	210.0	0.0	23.3	7	45	BIKE LANE CURB REMOVAL
36	ROUTE D	517+90	518+17	RT	30.0	5.0	150.0	16.7	16.7	23	40	BIKE LANE CURB REMOVAL
38	ROUTE D	533+65	533+98	LT	30.0	5.0	150.0	18.3	16.7	25	40	BIKE LANE CURB REMOVAL
40	ROUTE D	546+38	546+73	RT	35.0	5.0	175.0	19.4	19.4	26	45	BIKE LANE CURB REMOVAL
40	ROUTE D	550+72	550+93	RT	20.0	5.0	175.0	11.1	19.4	15	30	BIKE LANE CURB REMOVAL
41	ROUTE D	553+38	553+77	RT	40.0	5.0	240.0	26.7	26.7	35	50	BIKE LANE CURB REMOVAL
41	ROUTE D	556+49	556+74	LT	25.0	6.0	100.0	26.7	11.1	32	37	BIKE LANE CURB REMOVAL
	ROUTE D	VARIES	VARIES	VARIES				558.0	279.0	558.0	100	LOCATIONS AS DIRECTED BY ENGINEER
SUBTOTAL							1,882.0	752.7	488.1	808.6	517.0	
PROJECT TOTAL							1,882	752.7	489	809	517	

NOTES:
TYPE 1 OR 5 AGGREGATE FOR BASE QUANTITY INCLUDES THE PCC VERTICAL CURB BASE AND EXTENSION.
REPAIR AREA QUANTITY IS FOR INFORMATION PURPOSES ONLY.

CURB							
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	PCC VERTICAL CURB (12 IN WIDE) (LF)	REMARKS
4	ROUTE D	306+25	306+31	LT	6		
4	ROUTE D	306+34	306+39	RT	5		
4	ROUTE D	305+69	305+83	RT	14		
8	ROUTE D	331+62	331+74	LT	13		MEDIAN 3 & 4
8	ROUTE D	331+81	332+13	LT	34		MEDIAN 3 & 4
9	ROUTE D	341+14	341+20	LT	10		MONTCLAIR, CURB RAMP REMOVAL
9	ROUTE D	341+32	341+37	RT	6		MONTCLAIR, CURB RAMP REMOVAL
9	ROUTE D	341+54	341+60	LT	8		MONTCLAIR, CURB RAMP REMOVAL
9	ROUTE D	341+70	341+74	RT	6		MONTCLAIR, CURB RAMP REMOVAL
11	ROUTE D	353+32	353+40	LT	11		CURB RAMP REMOVAL
12	ROUTE D	356+88	356+98	LT	13		MEDIAN 11
20	ROUTE D	415+13	415+23	LT	14		MEDIAN 27
20	ROUTE D	415+14	415+19	RT	5		MEDIAN 27
21	ROUTE D	420+97	421+04	LT	11		
21	ROUTE D	420+99	421+02	RT	3		
29	ROUTE D	469+23	469+68	RT	45		ENTRANCE WIDTH REDUCTION
31	ROUTE D	484+67	485+12	LT	45		MEDIAN 44
34	ROUTE D	505+00	505+38	RT	38		ENTRANCE REMOVAL
35	ROUTE D	514+52	514+87	LT		35	SHERIDAN AVE, BIKE LANE
36	ROUTE D	516+23	516+43	LT		20	SENIOR LIVING ENTR, BIKE LANE
36	ROUTE D	516+66	516+89	LT		23	SENIOR LIVING ENTR, BIKE LANE
36	ROUTE D	517+87	518+22	LT		35	THOMAS ST.
36	ROUTE D	517+90	518+17	RT		30	THOMAS ST.
38	ROUTE D	533+65	533+98	LT		33	GARRISON AVE, BIKE LANE
40	ROUTE D	546+38	546+73	RT		35	LEFFINGWELL AVE, BIKE LANE
40	ROUTE D	550+72	550+93	RT		21	BEAUMONT ST, BIKE LANE
41	ROUTE D	553+38	553+77	RT		39	BEAUMONT ST, BIKE LANE
41	ROUTE D	556+49	556+74	LT		25	JEFFERSON AVE, BIKE LANE
SUBTOTAL					287	296	
PROJECT TOTAL					287	296	

NOTES:
PCC VERTICAL CURB IS ST LOUIS CITY STANDARD.

SEE PAVEMENT REPAIR SCHEDULE FOR AGGREGATE BASE AT PCC VERTICAL CURB. SUBSIDIARY TO PAVEMENT REPAIR QUANTITIES.

SUMMARY OF QUANTITIES
ROUTE D
SHEET 3 OF 17

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

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16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

MEDIAN STRIP (2 OF 3)								
SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOCATION	6 IN. CONRETE MEDIAN STRIP (SQYD)	6 IN. STAMPED AND STAINED MEDIAN STRIP (SQYD)	(18 IN.) (ISLAND) DELINEATOR POST (EA)	REMARKS
15	ROUTE D	381+16	381+48	RT	11.26		2	CURB BUMPOUT
15	ROUTE D	381+53	382+67	CL		75.14	6	MEDIAN 15B
15	ROUTE D	382+46	383+35	LT	46.82		2	CURB BUMPOUT
15	ROUTE D	383+41	383+62	RT	10.13		2	CURB BUMPOUT
16	ROUTE D	385+24	385+51	RT		29.50	6	MEDIAN 16
16	ROUTE D	385+83	386+00	RT	7.23		2	CURB BUMPOUT
16	ROUTE D	387+03	387+34	CL		25.66	6	MEDIAN 17
16	ROUTE D	389+53	390+47	CL		76.61	6	MEDIAN 18
16	ROUTE D	389+64	389+79	LT	7.35		2	CURB BUMPOUT
17	ROUTE D	390+61	390+76	RT	7.35		2	CURB BUMPOUT
17	ROUTE D	391+84	392+97	CL		87.49	6	MEDIAN 19
17	ROUTE D	392+54	392+75	LT	19.27		2	CURB BUMPOUT
17	ROUTE D	393+79	394+78	RT		99.57	6	MEDIAN 20
17	ROUTE D	396+44	397+21	CL		64.95	6	MEDIAN 21
18	ROUTE D	396+91	397+19	RT	17.09		2	CURB BUMPOUT
18	ROUTE D	398+06	398+94	CL		129.90	6	MEDIAN 22
18	ROUTE D	400+51	401+39	LT	29.79		2	MEDIAN 23
18	ROUTE D	401+16	401+43	RT	17.09		2	CURB BUMPOUT
18	ROUTE D	402+34	402+61	LT	17.09		2	CURB BUMPOUT
18	ROUTE D	402+37	402+78	RT	30.42		6	MEDIAN 24
18	ROUTE D	403+23	403+52	RT	22.50		6	MEDIAN 25
19	ROUTE D	404+05	404+88	LT	47.81		6	STREET CLOSURE ISLAND, MEDIAN 26A
19	ROUTE D	405+03	405+80	LT	54.48		6	MEDIAN 26B
19	ROUTE D	405+83	405+98	RT	7.37		2	CURB BUMPOUT
19	ROUTE D	406+60	406+75	LT	7.35		2	CURB BUMPOUT
20	ROUTE D	412+43	412+58	RT	7.37		2	CURB BUMPOUT
20	ROUTE D	414+00	414+15	LT	7.35		2	CURB BUMPOUT
20	ROUTE D	415+32	417+45	RT		140.49	6	MEDIAN 27
20	ROUTE D	415+40	415+66	LT	16.36		2	CURB BUMPOUT
20	ROUTE D	415+40	415+66	RT	12.34		2	CURB BUMPOUT
21	ROUTE D	417+99	418+21	LT	25.08		2	CURB BUMPOUT
21	ROUTE D	421+12	421+39	LT	12.29		2	CURB BUMPOUT
21	ROUTE D	421+06	421+44	CL	54.03		6	MEDIAN 28
21	ROUTE D	421+06	421+28	RT	12.34		2	CURB BUMPOUT
22	ROUTE D	423+48	423+79	LT	12.34		2	CURB BUMPOUT
22	ROUTE D	423+79	424+94	CL		174.36	6	MEDIAN 29
22	ROUTE D	423+81	423+96	RT	7.35		2	CURB BUMPOUT
22	ROUTE D	427+57	429+43	CL		284.86	6	MEDIAN 30
23	ROUTE D	430+74	430+89	RT	7.35		2	CURB BUMPOUT
23	ROUTE D	431+51	432+39	LT		19.90	2	MEDIAN 31
23	ROUTE D	432+20	432+35	LT	7.35		2	CURB BUMPOUT
23	ROUTE D	433+16	434+19	RT		130.34	6	MEDIAN 32
23	ROUTE D	435+12	435+32	LT	19.27		2	CURB BUMPOUT
24	ROUTE D	437+11	438+89	CL		477.35	6	MEDIAN 33
24	ROUTE D	438+01	438+16	LT	8.54		2	CURB BUMPOUT
25	ROUTE D	440+04	440+24	RT	18.63		2	CURB BUMPOUT
25	ROUTE D	441+06	442+10	CL		130.14	6	MEDIAN 34
25	ROUTE D	441+77	441+97	LT	19.27	0.00	2	CURB BUMPOUT
25	ROUTE D	442+74	443+76	RT	0.00	90.98	6	MEDIAN 35
25	ROUTE D	442+89	443+09	RT	18.64		2	CURB BUMPOUT
25	ROUTE D	444+89	445+42	LT	56.91		2	CURB BUMPOUT
26	ROUTE D	447+56	448+70	CL		121.04	6	MEDIAN 36
26	ROUTE D	448+23	448+52	RT	19.07		2	CURB BUMPOUT
26	ROUTE D	450+38	450+67	LT	19.07		2	CURB BUMPOUT
26	ROUTE D	451+49	451+78	RT	19.07		2	CURB BUMPOUT
26	ROUTE D	453+41	453+63	LT	11.73		2	CURB BUMPOUT
27	ROUTE D	453+55	455+20	CL		192.06	6	MEDIAN 37
27	ROUTE D	457+15	458+45	CL		153.18	2	MEDIAN 38
27	ROUTE D	460+05	461+10	CL		125.40	6	MEDIAN 39
27	ROUTE D	460+85	461+10	RT	15.20		2	CURB BUMPOUT
SUBTOTAL 2					767.35	2,628.92	212	

NOTE:
CURB BUMPOUT PAID AS CONCRETE MEDIAN STRIP.

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SUMMARY OF QUANTITIES
ROUTE D
SHEET 4 OF 17

MEDIAN STRIP (3 OF 3)								
SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOCATION	6 IN. CONRETE MEDIAN STRIP (SQYD)	6 IN. STAMPED AND STAINED MEDIAN STRIP (SQYD)	(18 IN.) (ISLAND) DELINEATOR POST (EA)	REMARKS
28	ROUTE D	461+92	462+07	LT	7.35		2	CURB BUMPOUT
28	ROUTE D	463+70	464+01	RT	21.15		2	CURB BUMPOUT
28	ROUTE D	465+61	465+92	LT	21.15		2	CURB BUMPOUT
28	ROUTE D	465+65	466+45	CL		107.12	6	MEDIAN 40
29	ROUTE D	467+00	467+30	RT	21.15		2	CURB BUMPOUT
29	ROUTE D	468+26	468+41	LT	7.35		2	CURB BUMPOUT
29	ROUTE D	469+23	469+38	RT	7.35		2	CURB BUMPOUT
29	ROUTE D	470+71	470+86	LT	7.35		2	CURB BUMPOUT
29	ROUTE D	471+17	471+85	CL		92.45	6	MEDIAN 41
29	ROUTE D	473+81	475+45	CL		211.01	6	MEDIAN 42
30	ROUTE D	475+27	475+42	LT	7.35		2	CURB BUMPOUT
30	ROUTE D	478+06	480+45	CL		302.08	6	MEDIAN 43
30	ROUTE D	478+99	479+27	RT	17.09		2	CURB BUMPOUT
31	ROUTE D	480+58	480+73	LT	7.35		2	CURB BUMPOUT
31	ROUTE D	481+46	481+73	RT	17.09		2	CURB BUMPOUT
31	ROUTE D	484+66	484+95	RT	19.07		2	CURB BUMPOUT
31	ROUTE D	486+75	487+10	CL		52.12	6	MEDIAN 44
32	ROUTE D	488+86	489+79	CL		125.45	6	MEDIAN 45
32	ROUTE D	491+90	492+20	LT	21.15		2	CURB BUMPOUT
32	ROUTE D	493+39	493+68	RT	19.07		2	CURB BUMPOUT
33	ROUTE D	495+31	495+69	CL		63.24	6	MEDIAN 46
33	ROUTE D	496+30	496+45	LT	7.35		2	CURB BUMPOUT
33	ROUTE D	499+34	499+49	RT	7.35		2	CURB BUMPOUT
33	ROUTE D	499+37	500+24	CL	29.79		2	MEDIAN 47
33	ROUTE D	500+67	500+85	LT	8.63		2	CURB BUMPOUT
33	ROUTE D	501+50	501+65	RT	7.35		2	CURB BUMPOUT
33	ROUTE D	502+92	503+08	CL		32.66	6	MEDIAN 48
33	ROUTE D	502+87	503+09	RT	8.50		2	CURB BUMPOUT
33	ROUTE D	502+87	503+09	LT	8.50		2	CURB BUMPOUT
34	ROUTE D	504+65	505+48	CL		49.47	6	MEDIAN 49
34	ROUTE D	506+19	506+67	CL		36.58	6	MEDIAN 50
34	ROUTE D	506+30	506+59	RT	19.07		2	CURB BUMPOUT
35	ROUTE D	508+14	508+43	RT	19.07		2	CURB BUMPOUT
35	ROUTE D	509+08	510+30	CL		207.55	6	MEDIAN 51
35	ROUTE D	512+54	512+99	CL		10.27	2	MEDIAN 51A
35	ROUTE D	514+10	514+13	LT	15.44		2	CONCRETE MEDIAN
37	ROUTE D	527+49	527+78	LT	14.72		2	CURB BUMPOUT
37	ROUTE D	528+63	528+91	LT	11.17		2	CURB BUMPOUT
38	ROUTE D	532+07	532+34	LT	17.09		2	CURB BUMPOUT
39	ROUTE D	539+29	539+56	LT	17.09		2	CURB BUMPOUT
39	ROUTE D	541+17	541+49	RT	16.56		2	CURB BUMPOUT
39	ROUTE D	542+52	542+82	RT	21.15		2	CURB BUMPOUT
40	ROUTE D	551+17	551+41	LT	13.42		2	CURB BUMPOUT
42	ROUTE D	565+50	565+95	CL		58.73	6	MEDIAN 52
43	ROUTE D	568+10	568+60	CL		64.29	6	MEDIAN 53
43	ROUTE D	572+55	573+15	CL		75.40	6	MEDIAN 54
45	ROUTE D	580+55	581+05	CL		64.29	6	MEDIAN 55
46	ROUTE D	590+50	591+05	CL		69.85	6	MEDIAN 56
46	ROUTE D	595+85	596+45	CL		75.39	6	MEDIAN 57
	ROUTE D	VARIES	VARIES	VARIES			10	LOCATIONS AS DIRECTED BY ENGINEER
SUBTOTAL 3:					443.27	1,697.95	176	
SUBTOTAL 2:					767.35	2,628.92	212	
SUBTOTAL 1:					839.09	955.00	176	
PROJECT TOTAL :					2,049.7	5,281.9	564	

NOTE:
CURB BUMPOUT PAID AS CONCRETE MEDIAN STRIP.

COLDMILLING AND PAVEMENT											
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	ASPHALTIC CONCRETE MIXTURE PG 70-22 (SPSP095C MIX) 1.5" (TON)	ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP095CLP MIX) 1.5" (TON)	TACK COAT-NON TRACKING (GAL)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) (SY)	PAVED APPROACH, 8 IN (SY)	TYPE 5 AGGREGATE FOR BASE (4 IN THICK) (SY)	REMARKS
4 TO 48	ROUTE D	301+78.50	607+52.00	CL	15,984.0	15,984.0	30,079.6	200,530.6			-
	ROUTE D	516+43.00	516+66.00	LT					40.0	40.0	SENIOR LIVING ENTRANCE
SUBTOTAL					15,984.0	15,984.0	30,079.6	200,530.6	40.0	40.0	** SEE SIDEWALK TABLE FOR OMITTED TOTAL
PROJECT TOTAL					15,984.0	15,984.0	30,080	200,531	40.0	**	

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION | DATE | REV.

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

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SUMMARY OF QUANTITIES
ROUTE D
SHEET 5 OF 17

TEMPORARY EROSION CONTROL							
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CURB INLET CHECK (EACH)	SEDIMENT REMOVAL (CUYD)	REMARKS
-	ROUTE D	301+78.50	607+52.00	VARIES	6	6.0	LOCATIONS AS DIRECTED BY ENGINEER
SUBTOTAL					6	6.0	
PROJECT TOTAL					6	6	

ADJUST TO GRADE (1 OF 5)										
SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE MSD (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (EA)	AT&T (BY OTHERS) EA	CONCRETE MANHOLE/ UTILITY APRON (EA)	REMARKS
4	Route D	302+63.84	RT		1					RAISE TO EXISTING GRADE
4	Route D	302+65.30	LT		1					RAISE TO EXISTING GRADE
4	Route D	303+72.87	LT		1				1	RAISE TO EXISTING GRADE
4	Route D	305+58.66	LT			1			1	EXIST. BURIED WATER MH
4	Route D	305+92.15	LT			1			1	EXIST. BURIED WATER MH
4	Route D	305+92.31	LT			1			1	RAISE TO EXISTING GRADE
4	Route D	308+27.38	LT			1				RAISE TO EXISTING GRADE (WATER VALVE)
5	Route D	309+15.30	LT			1			1	RAISE TO EXISTING GRADE
5	Route D	309+25.00	LT			1			1	RAISE TO EXISTING GRADE
5	Route D	312+25.78	LT			1				RAISE TO EXISTING GRADE
5	Route D	312+29.82	LT			1				RAISE TO EXISTING GRADE
7	Route D	325+88.01	LT			1			1	RAISE TO EXISTING GRADE
7	Route D	326+01.69	LT			1			1	RAISE TO EXISTING GRADE
7	Route D	326+17.04	LT			1			1	RAISE TO EXISTING GRADE
7	Route D	326+35.44	LT			1			1	RAISE TO EXISTING GRADE
8	Route D	330+88.57	LT					1		EXIST. BURIED WATER MH
8	Route D	331+66.59	LT	1						RAISE TO EXISTING GRADE
8	Route D	332+11.40	LT			1			1	RAISE TO EXISTING GRADE
8	Route D	332+25.85	LT			1				RAISE TO EXISTING GRADE
8	Route D	332+27.46	LT			1			1	RAISE TO EXISTING GRADE
8	Route D	333+82.02	LT		1					RAISE TO EXISTING GRADE
8	Route D	335+25.82	LT			1				RAISE TO EXISTING GRADE
8	Route D	335+27.66	LT			1			1	RAISE TO EXISTING GRADE
8	Route D	335+33.76	RT		1					RAISE TO EXISTING GRADE
9	Route D	338+02.27	LT			1			1	RAISE TO EXISTING GRADE
9	Route D	338+15.88	LT			1			1	RAISE TO EXISTING GRADE
9	Route D	338+18.65	LT					1		RAISE TO EXISTING GRADE
9	Route D	338+38.83	RT		1					RAISE TO EXISTING GRADE
9	Route D	338+51.54	LT			1				EXIST. BURIED WATER MH
9	Route D	338+77.18	LT			1			1	RAISE TO EXISTING GRADE
9	Route D	341+31.22	LT			1			1	RAISE TO EXISTING GRADE (WATER VALVE)
9	Route D	341+45.22	LT			1			1	RAISE TO EXISTING GRADE
10	Route D	345+68.29	RT		1				1	RAISE TO EXISTING GRADE
10	Route D	347+45.94	LT			1				RAISE TO EXISTING GRADE
10	Route D	347+51.15	LT			1				RAISE TO EXISTING GRADE
SUB-TOTAL 1:				1	7	25	0	2	19	

NOTE: ALL WATER VALVES TO BE PAID AS WATER METER.

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

REV.

SUMMARY OF QUANTITIES
ROUTE D
SHEET 6 OF 17

ADJUST TO GRADE (2 OF 5)										
SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE MSD (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (EA)	AT&T (BY OTHERS) EA	CONCRETE MANHOLE/ UTILITY APRON (EA)	REMARKS
11	Route D	350+23.92	LT			1			1	EXIST. BURIED WATER MH
11	Route D	350+82.97	LT			1				RAISE TO EXISTING GRADE
12	Route D	356+28.45	LT			1			1	RAISE TO EXISTING GRADE
12	Route D	356+39.45	LT			1			1	EXIST. BURIED WATER MH
12	Route D	357+01.80	LT		1					RAISE TO EXISTING GRADE
12	Route D	359+07.87	LT			1			1	RAISE TO EXISTING GRADE
12	Route D	360+56.31	LT		1				1	RAISE TO EXISTING GRADE
13	Route D	364+41.36	RT		1				1	RAISE TO EXISTING GRADE
13	Route D	365+10.79	LT		1					RAISE TO EXISTING GRADE
13	Route D	365+28.53	LT			1			1	RAISE TO EXISTING GRADE
13	Route D	370+11.01	LT			1				RAISE TO EXISTING GRADE
13	Route D	372+65.98	LT			1				RAISE TO EXISTING GRADE
15	Route D	380+69.66	LT			1				RAISE TO EXISTING GRADE
15	Route D	380+82.52	LT			1			1	RAISE TO EXISTING GRADE
15	Route D	380+92.65	LT			1			1	RAISE TO EXISTING GRADE (WATER VALVE)
15	Route D	382+89.33	LT			1			1	RAISE TO EXISTING GRADE
15	Route D	383+45.59	LT			1			1	RAISE TO EXISTING GRADE
17	Route D	393+11.73	LT			1			1	EXIST. BURIED WATER MH
17	Route D	393+14.95	LT			1			1	EXIST. BURIED WATER MH
17	Route D	393+15.98	RT			1			1	RAISE TO EXISTING GRADE
17	Route D	393+19.78	LT		1				1	RAISE TO EXISTING GRADE
17	Route D	393+23.73	LT			1			1	EXIST. BURIED WATER MH
17	Route D	393+37.61	LT			1			1	RAISE TO EXISTING GRADE
17	Route D	393+56.07	RT			1				RAISE TO EXISTING GRADE
17	Route D	393+56.69	LT			1			1	RAISE TO EXISTING GRADE
17	Route D	395+29.61	LT		1				1	RAISE TO EXISTING GRADE
18	Route D	397+42.93	LT			1			1	RAISE TO EXISTING GRADE
18	Route D	397+54.15	LT			1			1	RAISE TO EXISTING GRADE
18	Route D	401+72.54	RT			1			1	RAISE TO EXISTING GRADE
18	Route D	401+72.74	LT			1			1	RAISE TO EXISTING GRADE
19	Route D	406+49.59	LT		1					RAISE TO EXISTING GRADE
20	Route D	410+67.35	LT			1			1	RAISE TO EXISTING GRADE
20	Route D	410+82.92	RT			1			1	RAISE TO EXISTING GRADE
20	Route D	414+60.30	LT			1			1	RAISE TO EXISTING GRADE
21	Route D	417+90.13	LT			1			1	EXIST. BURIED WATER MH
21	Route D	420+25.14	LT			1			1	RAISE TO EXISTING GRADE
21	Route D	420+74.98	LT			1			1	RAISE TO EXISTING GRADE
SUB-TOTAL 2:				0	7	30	0	0	29	

NOTE: ALL WATER VALVES TO BE PAID AS WATER METER.

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SUMMARY OF QUANTITIES
ROUTE D
SHEET 7 OF 17

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

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ADJUST TO GRADE (3 OF 5)										
SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE MSD (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (EA)	AT&T (BY OTHERS) EA	CONCRETE MANHOLE/ UTILITY APRON (EA)	REMARKS
22	Route D	422+85.81	LT			1			1	EXIST. BURIED WATER MH
22	Route D	423+43.39	LT			1			1	EXIST. BURIED WATER MH
23	Route D	432+50.31	LT		1				1	RAISE TO EXISTING GRADE
23	Route D	432+76.12	LT			1			1	RAISE TO EXISTING GRADE
23	Route D	432+76.57	LT			1				RAISE TO EXISTING GRADE
23	Route D	433+22.99	LT			1				RAISE TO EXISTING GRADE
25	Route D	442+12.34	LT			1				RAISE TO EXISTING GRADE
25	Route D	442+19.77	LT			1			1	RAISE TO EXISTING GRADE
25	Route D	442+19.81	LT			1				RAISE TO EXISTING GRADE
25	Route D	442+26.67	LT			1				RAISE TO EXISTING GRADE
25	Route D	442+39.65	LT			1			1	RAISE TO EXISTING GRADE
25	Route D	442+39.91	LT			1			1	RAISE TO EXISTING GRADE
25	Route D	442+47.03	LT			1			1	RAISE TO EXISTING GRADE
25	Route D	442+51.60	LT			1				RAISE TO EXISTING GRADE
25	Route D	442+82.85	LT			1			1	RAISE TO EXISTING GRADE
26	Route D	451+06.23	LT			1			1	RAISE TO EXISTING GRADE
27	Route D	455+04.84	LT			1			1	EXIST. BURIED WATER MH
27	Route D	455+35.84	LT			1			1	RAISE TO EXISTING GRADE
27	Route D	458+86.08	LT			1			1	EXIST. BURIED WATER MH
28	Route D	462+96.68	LT			1			1	RAISE TO EXISTING GRADE
28	Route D	463+26.29	LT			1			1	RAISE TO EXISTING GRADE
28	Route D	463+32.20	LT			1			1	RAISE TO EXISTING GRADE
28	Route D	465+62.05	LT			1			1	EXIST. BURIED WATER MH
29	Route D	467+80.70	LT			1			1	RAISE TO EXISTING GRADE
29	Route D	468+47.77	LT			1				EXIST. BURIED WATER MH
29	Route D	468+58.78	LT			1			1	EXIST. BURIED WATER MH
29	Route D	468+78.16	LT			1			1	RAISE TO EXISTING GRADE
29	Route D	469+16.70	RT		1					RAISE TO EXISTING GRADE
29	Route D	472+87.54	RT		1					RAISE TO EXISTING GRADE
29	Route D	473+26.16	LT			1			1	RAISE TO EXISTING GRADE
30	Route D	476+97.14	LT			1			1	RAISE TO EXISTING GRADE
30	Route D	477+28.78	LT			1			1	EXIST. BURIED WATER MH
30	Route D	477+85.67	LT			1			1	EXIST. BURIED WATER MH
31	Route D	480+99.37	RT			1			1	RAISE TO EXISTING GRADE
31	Route D	481+37.25	RT		1					RAISE TO EXISTING GRADE
31	Route D	482+59.93	RT		1					RAISE TO EXISTING GRADE
31	Route D	484+06.80	LT			1			1	RAISE TO EXISTING GRADE
31	Route D	484+45.11	LT			1			1	RAISE TO EXISTING GRADE
32	Route D	488+25.58	LT			1			1	RAISE TO EXISTING GRADE
32	Route D	493+01.74	LT			1			1	RAISE TO EXISTING GRADE
32	Route D	493+19.52	LT			1			1	EXIST. BURIED WATER MH
32	Route D	493+30.10	LT			1			1	RAISE TO EXISTING GRADE
33	Route D	496+46.98	LT			1			1	RAISE TO EXISTING GRADE
33	Route D	498+15.20	LT			1			1	EXIST. BURIED WATER MH
33	Route D	499+78.35	LT			1			1	EXIST. BURIED WATER MH
34	Route D	505+43.88	LT			1			1	RAISE TO EXISTING GRADE
34	Route D	505+59.41	LT			1			1	RAISE TO EXISTING GRADE
34	Route D	505+66.37	LT			1			1	RAISE TO EXISTING GRADE
34	Route D	505+80.89	LT			1			1	RAISE TO EXISTING GRADE
35	Route D	509+95.03	RT			1			1	RAISE TO EXISTING GRADE
35	Route D	512+08.86	RT		1				1	RAISE TO EXISTING GRADE
35	Route D	513+63.48	LT			1			1	RAISE TO EXISTING GRADE (WATER VALVE)
35	Route D	514+05.83	LT			1			1	RAISE TO EXISTING GRADE
35	Route D	514+72.48	LT		1				1	RAISE TO EXISTING GRADE
35	Route D	514+82.21	LT			1			1	RAISE TO EXISTING GRADE
36	Route D	518+48.25	RT			1				EXIST. BURIED WATER MH
36	Route D	521+61.90	RT		1				1	RAISE TO EXISTING GRADE
37	Route D	524+07.85	LT			1			1	RAISE TO EXISTING GRADE
37	Route D	524+64.18	LT		1				1	RAISE TO EXISTING GRADE
SUB-TOTAL 3:				0	9	50	0	0	47	

NOTE: ALL WATER VALVES TO BE PAID AS WATER METER.

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SUMMARY OF QUANTITIES
ROUTE D
SHEET 8 OF 17

ADJUST TO GRADE (4 OF 5)										
SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE MSD (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (EA)	AT&T (BY OTHERS) EA	CONCRETE MANHOLE/ UTILITY APRON (EA)	REMARKS
37	Route D	527+85.14	LT				1			RAISE TO EXISTING GRADE
37	Route D	528+06.06	LT			1			1	RAISE TO EXISTING GRADE
37	Route D	528+11.30	RT		1					RAISE TO EXISTING GRADE
37	Route D	528+19.32	LT			1			1	EXIST. BURIED WATER MH
38	Route D	532+40.27	LT			1				RAISE TO EXISTING GRADE
38	Route D	532+87.81	RT			1			1	RAISE TO EXISTING GRADE
38	Route D	534+06.98	RT		1				1	RAISE TO EXISTING GRADE
38	Route D	534+15.93	LT			1			1	RAISE TO EXISTING GRADE
38	Route D	535+68.52	RT		1					RAISE TO EXISTING GRADE
39	Route D	538+64.00	LT			1			1	RAISE TO EXISTING GRADE
39	Route D	539+37.16	LT			1			1	RAISE FOR CONCRETE ISLAND
39	Route D	539+68.15	RT			1			1	RAISE TO EXISTING GRADE
39	Route D	541+60.82	LT			1			1	RAISE TO EXISTING GRADE
39	Route D	542+77.65	RT		1					RAISE TO EXISTING GRADE
40	Route D	545+57.02	LT			1			1	RAISE TO EXISTING GRADE
40	Route D	546+98.00	LT		1					RAISE TO EXISTING GRADE
40	Route D	547+85.98	LT			1				RAISE TO EXISTING GRADE
40	Route D	551+48.31	LT			1			1	RAISE FOR CONCRETE ISLAND
41	Route D	555+94.37	LT			1				RAISE TO EXISTING GRADE
41	Route D	557+19.30	RT			1				RAISE TO EXISTING GRADE
41	Route D	557+22.96	LT		1					RAISE TO EXISTING GRADE
41	Route D	557+28.40	RT			1				RAISE TO EXISTING GRADE
41	Route D	557+31.36	LT		1					RAISE TO EXISTING GRADE
41	Route D	557+45.46	RT		1					RAISE TO EXISTING GRADE
41	Route D	557+52.12	RT		1					RAISE TO EXISTING GRADE
41	Route D	557+63.05	LT		1					RAISE TO EXISTING GRADE
41	Route D	558+02.79	LT			1			1	RAISE TO EXISTING GRADE
42	Route D	561+79.12	LT			1				RAISE TO EXISTING GRADE
42	Route D	561+91.15	LT			1			1	RAISE TO EXISTING GRADE
42	Route D	561+96.47	RT		1					RAISE TO EXISTING GRADE
42	Route D	562+03.49	LT		1					RAISE TO EXISTING GRADE
42	Route D	562+44.18	LT			1			1	RAISE TO EXISTING GRADE
42	Route D	564+29.05	RT			1			1	RAISE TO EXISTING GRADE
42	Route D	566+35.74	RT		1					RAISE TO EXISTING GRADE
43	Route D	572+60.24	RT			1			1	RAISE TO EXISTING GRADE
44	Route D	574+95.83	RT			1				RAISE TO EXISTING GRADE
44	Route D	575+04.24	LT			1				RAISE TO EXISTING GRADE
44	Route D	579+32.24	LT			1				RAISE TO EXISTING GRADE
44	Route D	579+34.18	RT		1					RAISE TO EXISTING GRADE
44	Route D	579+51.29	LT			1				RAISE TO EXISTING GRADE
SUB-TOTAL 4:				0	14	25	1	0	16	

NOTE: ALL WATER VALVES TO BE PAID AS WATER METER.

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NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER
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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

SUMMARY OF QUANTITIES
ROUTE D
SHEET 9 OF 17

ADJUST TO GRADE (5 OF 5)										
SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE MSD (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (EA)	AT&T (BY OTHERS) EA	CONCRETE MANHOLE/ UTILITY APRON (EA)	REMARKS
45	Route D	584+19.40	LT			1				RAISE TO EXISTING GRADE
46	Route D	587+64.20	LT			1				RAISE TO EXISTING GRADE
46	Route D	587+95.35	LT			1				RAISE TO EXISTING GRADE
46	Route D	588+02.97	LT		1					RAISE TO EXISTING GRADE
46	Route D	588+12.30	LT			1				RAISE TO EXISTING GRADE
46	Route D	588+38.37	LT			1				RAISE TO EXISTING GRADE
46	Route D	588+46.30	LT		1					RAISE TO EXISTING GRADE
46	Route D	589+86.71	LT			1				RAISE TO EXISTING GRADE
46	Route D	590+50.76	RT			1				RAISE TO EXISTING GRADE
46	Route D	592+18.15	LT			1				RAISE TO EXISTING GRADE
46	Route D	592+30.71	LT			1				RAISE TO EXISTING GRADE
46	Route D	592+36.38	RT		1				1	RAISE TO EXISTING GRADE
46	Route D	592+77.98	LT		1					RAISE TO EXISTING GRADE
46	Route D	592+83.60	LT		1					RAISE TO EXISTING GRADE
46	Route D	596+56.08	LT			1				RAISE TO EXISTING GRADE
46	Route D	596+87.99	RT			1				RAISE TO EXISTING GRADE
46	Route D	597+26.03	LT			1				RAISE TO EXISTING GRADE
46	Route D	597+66.50	LT			1				RAISE TO EXISTING GRADE
46	Route D	599+17.56	LT			1				RAISE TO EXISTING GRADE
46	Route D	600+90.44	LT			1				RAISE TO EXISTING GRADE
46	Route D	601+15.71	RT		1					RAISE TO EXISTING GRADE
46	Route D	601+65.15	RT		1					RAISE TO EXISTING GRADE
48	Route D	604+88.62	LT			1				RAISE TO EXISTING GRADE
48	Route D	605+26.22	LT			1				RAISE TO EXISTING GRADE
48	Route D	605+55.47	LT		1					RAISE TO EXISTING GRADE
48	Route D	606+77.82	LT		1				1	RAISE TO EXISTING GRADE
48	Route D	606+83.20	LT			1			1	RAISE TO EXISTING GRADE
		VARIES	VARIES	5						LOCATIONS AS DIRECTED BY ENGINEER
SUB-TOTAL 5:				5	9	18	0	0	3	
SUB-TOTAL 4:				0	14	25	1	0	16	
SUB-TOTAL 3:				0	9	50	0	0	47	
SUB-TOTAL 2:				0	7	30	0	0	29	
SUB-TOTAL 1:				1	7	25	0	2	19	
PROJECT TOTAL:				6	46	148	1	2	114	

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

REV.

SUMMARY OF QUANTITIES
ROUTE D
SHEET 10 OF 17

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
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						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						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	2	32.00				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	2	32.00				MERGE (LEFT)
WO4-1aR	48X48	16.00	2	32.00				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)
WO12-2x	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	22	352.00				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	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						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)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
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	2	20.00				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00				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				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								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R2-1	36X48	12.00	2	24.00				SPEED LIMIT 35
R2-1	36X48	12.00	2	24.00				SPEED LIMIT 25
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						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	2	12.50				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				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						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64.00				POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE
GO22-1	15X21	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

616-10.05 CONSTRUCTION SIGNS	TOTAL
	729

616-10.10 RELOCATED SIGNS	TOTAL

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ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025 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		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	274	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	31	TYPE 3 MOVEABLE BARRICADE
6161033	32	DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055	32	SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	2*	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

ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ITEM NO. 6169901, TEMPORARY TRAFFIC CONTROL, LUMP SUM UNLESS OTHERWISE NOTED.

TEMPORARY TRAFFIC CONTROL
TOTAL = 1 LUMP SUM

* ITEMS NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM

** NO DIRECT PAY WILL BE MADE FOR RELOCATING TEMPORARY TRAFFIC CONTROL SIGNS OR DEVICES

TEMPORARY TRAFFIC CONTROL
QUANTITIES
ROUTE D
SHEET 11 OF 17

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	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)

GBA
16305 SWINGLEY RIDGE RD ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

INTERSECTION	BASE, CONCRETE	PREFORMED PULL BOX, CLASS 2	PEDESTRIAN PUSH BUTTON STANCHION	15' TOP MOUNT POST	RETROREFLECTIVE BACKPLATE			SIGNAL HEAD, TYPE						SIGNAL HEAD RELOCATION OR REPLACEMENT ON MAST ARM	SIGN RELOCATION OR REPLACEMENT ON MAST ARM
								3-			4-				
					3	4	5	T	S	B	T	S	B		
	(CU YDS)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)
ROUTE D & SKINKER PKWY/KIENLEN AVE			1		8	4								2	
ROUTE D & HODIAMONT AVE															
ROUTE D & HAMILTON AVE					10					2				2	2
ROUTE D & GOODFELLOW BLVD					7	2	1						2	1	2
ROUTE D & CLARA AVE					8	1							1	2	1
ROUTE D & UNION BLVD					7	4	1						2	2	2
ROUTE D & ACADEMY AVE					14	2				1			1	1	1
ROUTE D & KINGSHIGHWAY BLVD					10	4								3	
ROUTE D & EUCLID AVE					11								2		2
ROUTE D & WALTON AVE					8	2							2		2
ROUTE D & REV GH PRUITT PL					6										
ROUTE D & TAYLOR AVE					8	2							2		2
ROUTE D & NEWSTEAD AVE					10									6	
ROUTE D & PENDLETON AVE					8	2			2				2	3	2
ROUTE D & WHITTIER ST					8	2							2	2	2
ROUTE D & SARAH ST					8	2							2	2	2
ROUTE D & VANDEVENTER AVE					12	2							2		2
ROUTE D & SPRING AVE					9	2							2	1	2
ROUTE D & GRAND BLVD					9	4			1	1			2	2	2
ROUTE D & BLUMEYER ST/SHERIDAN AVE	0.5	1	2	1	19				1					2	
ROUTE D & JEFFERSON AVE					15		1							2	
ROUTE D & 14TH ST					13									2	
ROUTE D & TUCKER BLVD					8		1			1				2	1
TOTALS	0.5	1	3	1	216	35	4	0	4	5	0	0	24	37	27

INTERSECTION	CONDUIT			POWER	CONTROL			DETECTOR
	2"	3"	3"	1c#8	2c#16	5c#16	7c#16	VIDEO (1)
	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
ROUTE D & SKINKER PKWY/KIENLEN AVE	28	28			210			
ROUTE D & HODIAMONT AVE							350	
ROUTE D & HAMILTON AVE							350	
ROUTE D & GOODFELLOW BLVD							170	
ROUTE D & CLARA AVE							410	
ROUTE D & UNION BLVD							700	
ROUTE D & ACADEMY AVE								
ROUTE D & KINGSHIGHWAY BLVD							360	
ROUTE D & EUCLID AVE							390	
ROUTE D & WALTON AVE								
ROUTE D & REV GH PRUITT PL							400	
ROUTE D & TAYLOR AVE								
ROUTE D & NEWSTEAD AVE							750	
ROUTE D & PENDLETON AVE							350	
ROUTE D & WHITTIER ST							370	
ROUTE D & SARAH ST				120			370	700
ROUTE D & VANDEVENTER AVE				70			360	670
ROUTE D & SPRING AVE				80			520	680
ROUTE D & GRAND BLVD				80			520	680
ROUTE D & BLUMEYER ST/SHERIDAN AVE	20	27	36	70	1020		60	2640
ROUTE D & JEFFERSON AVE				80				850
ROUTE D & 14TH ST				80				910
ROUTE D & TUCKER BLVD								
TOTALS	48	55	36	500	1230	0	5910	6450

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

INTERSECTION	PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS	ATC TRAFFIC SIGNAL CONTROLLER	ONE-APPROACH CABINET MODIFCATION	DETECTORS			SIGNAL SIGNS*					SIGN TOTAL AREA	SIGN MOUNTING HARDWARE
				ACCESSIBLE PUSH BUTTON	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM	RECONFIGURATION OF VIDEO DETECTION ZONES	R3-2	R10-3ER*	R10-3EL*	R10-10L	R10-27A		
	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(SQ FT)	(EA)
ROUTE D & SKINKER PKWY/KIENLEN AVE				1		1			1				
ROUTE D & HODIAMONT AVE													
ROUTE D & HAMILTON AVE						1							
ROUTE D & GOODFELLOW BLVD			1			1					2	15.0	2
ROUTE D & CLARA AVE			1			1					1	8.0	1
ROUTE D & UNION BLVD			1			1					2	15.0	2
ROUTE D & ACADEMY AVE			1			1					1	8.0	1
ROUTE D & KINGSHIGHWAY BLVD						1							
ROUTE D & EUCLID AVE			1			1					2	15.0	2
ROUTE D & WALTON AVE			1			1					2	15.0	2
ROUTE D & REV GH PRUITT PL						1							
ROUTE D & TAYLOR AVE			1			1					2	15.0	2
ROUTE D & NEWSTEAD AVE						1							
ROUTE D & PENDLETON AVE			1			1					2	15.0	2
ROUTE D & WHITTIER ST			1			1					2	15.0	2
ROUTE D & SARAH ST			1			1					2	15.0	2
ROUTE D & VANDEVENTER AVE	1	1	1		1	1					2	15.0	2
ROUTE D & SPRING AVE	1	1	1		1	1					2	15.0	2
ROUTE D & GRAND BLVD	1	1	1		1	1					2	15.0	2
ROUTE D & BLUMEYER ST/SHERIDAN AVE	1	1		2	1	1	1	1	1			4.0	1
ROUTE D & JEFFERSON AVE	1	1			1	1							
ROUTE D & 14TH ST	1	1			1	1							
ROUTE D & TUCKER BLVD						1							
TOTALS	6	6	13	3	6	22	1	1	2	0	24	185	25

*FOR INFORMATION ONLY

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY - FRONT FACING ONLY (1 SIDED)

TOTAL = 6 EACH

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY - FRONT & REAR FACING (2 SIDED)

TOTAL = 27 EACH

REMOVAL OF EXISTING RECTANGULAR RAPID FLASHING BEACON

TOTAL = 14 EACH

NOTE: SUBSIDIARY TO REMOVAL OF IMPROVEMENTS LUMP SUM

MODOT SIGN POST DELINEATOR

66 EACH

TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING

1 LUMP SUM

RELOCATION OF EXISTING CITY LIGHT POLES

TOTAL = 7 EACH

DIRECT-BURY LIGHTING

1 EACH

DISCLAIMER
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SUMMARY OF QUANTITIES
SIGNALS
ROUTE D
SHEET 12 OF 17

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION | DATE | REV.

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

GBA
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PRO. ENGINEER 000133
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PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST							
																									ANCHORS						ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ 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	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	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	EACH	IN.	LF	LBS	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	EACH	
1	30"x30"	304+74		RTE D																			10		10			1							
2	36"TRI	305+76		RTE D																			10		10			1							
2A	36"x12"	305+79		RTE D		0.13							2.5	11.5		5.79	66.5																			
3	24"x24"	305+91		RTE D		0.13							2.5	13.5		5.79	78.2																			
4	24"x30"	305+96		RTE D		0.13							2.5	14		5.79	81.1																			
5	30"x30"	306+00		RTE D		0.13							2.5	14		5.79	81.1																			
6	24"x24"	306+00		RTE D		0.13							2.5	13.5		5.79	78.2																			
7	ASSY.	307+70		RTE D																									11		11		1			
7A	48"TRI	303+83		RTE D																									11		11			1		
8	30"x30"	304+72		RTE D																			10		10			1							
8A	ASSY.	305+02		RTE D																			11		11			1							
9	30"x30"	305+97		RTE D		0.13							2.5	14		5.79	81.1																			
10	24"x30"	306+07		RTE D		0.13							2.5	14		5.79	81.1																			
11	24"x24"	306+12		RTE D		0.13							2.5	13.5		5.79	78.2																			
11A	36"x12"	306+21		RTE D		0.13							2.5	11.5		5.79	66.5																			
12	36"TRI	306+29		RTE D																			10		10			1							
13	36"x36"	306+75		RTE D																			10.5		10.5			1							
13A	ASSY.	310+04		RTE D																			11		11	1									
14	12"x18"	342+96		RTE D																			9		9			1							
16	36"x36"	346+78		RTE D																			10.5		10.5	1									
17	ASSY.	344+31		RTE D																			11		11	1									
18	36"x36"	345+78		RTE D																			10.5		10.5	1									
19	ASSY.	348+26		RTE D																			11		11	1									
19A	24"x30"	364+22		RTE D		0.13							2.5	14		5.79	81.1																			
19B	24"x30"	365+42		RTE D		0.13							2.5	14		5.79	81.1																			
19C	36"x36"	373+07		RTE D																			10.5		10.5	1									
23	48"x24"	404+49		RTE D		0.13							2.5	13.5		5.79	78.2																			
24	18"x18"	404+37		RTE D																			9		9			1							
25	18"x18"	404+50		RTE D																			9		9			1							
26	18"x18"	404+64		RTE D																			9		9			1							
27	30"x30"	405+56		RTE D																			10		10			1							
28	12"x18"	417+19		RTE D																			9		9	1									
30A	ASSY.	492+73		RTE D																			11		11			1							
31	36"x36"	493+39		RTE D																			10.5		10.5			1							
32	36"x36"	492+40		RTE D																			10.5		10.5			1							
32A	ASSY.	492+78		RTE D																			11		11			1							
33	ASSY.	500+81		RTE D																			11		11	1									
34	36"x36"	502+70		RTE D																			10.5		10.5	1									
35	36"x36"	503+51		RTE D																			10.5		10.5			1							
36	ASSY.	504+79		RTE D																			11		11			1							
37	24"x30"	507+55		RTE D																			10		10	1									
38	24"x30"	504+81		RTE D																			10		10	1									
39	30"x30"	509+10		RTE D																			10		10	1									
41	ASSY.	514+56		RTE D																			9		9	1									
42	ASSY.	519+48		RTE D																			9.5		9.5	1									
43	ASSY.	518+14		RTE D																			9.5		9.5	1									
44	24"x18"	519+55		RTE D																			9		9	1									
46	24"x18"	522+74		RTE D																			9		9	1									
47	36"x12"	523+96		RTE D																			8.5		8.5	1									
48	24"x18"	527+57		RTE D																			9		9	1									
51	ASSY.	529+07		RTE D																			9.5		9.5	1									
52	ASSY.	527+35		RTE D																			9.5		9.5	1									
53	24"x18"	528+86		RTE D																			9		9	1									
54	24"x18"	534+39		RTE D																			9		9	1									
55	24"x18"	541+41		RTE D																			9		9	1									
56	24"x18"	540+40		RTE D																			9		9	1									
SUBTOTAL						1.56											933							416	25		17		22		1	1			
TOTAL						2.28											1290				**			801	48		35		45		3	1	2		

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

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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 DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING 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

D-29

SIGNING QUANTITIES
ROUTE D

SHEET 13 OF 17

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST							
																									ANCHORS						ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO.	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO.	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO.	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO.	POST NO. 1	POST NO. 2	TOTAL ITEM NO.	DRIVEN 12 GA. ITEM NO.	DRIVEN 7 GA. ITEM NO.	CONCRETE 7 GA. ITEM NO.	POST NO. 1	POST NO. 2	TOTAL ITEM NO.	2.25" INSERT (6 FT) ITEM NO.	DRIVEN 7 GA. ITEM NO.	CONCRETE 7 GA. ITEM NO.	ITEM NO.	
						9031010						9031210					9031220	EACH	IN.	LBS	LBS	9031250A	LF		9031270A	9031271A	9031273A	9031274			9031280	9031272A	9031281A	9031285	9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS					LF	LF													
57	24"x18"	545+69		RTE D																			9		9	1									
57A	ASSY.	545+93		RTE D																			11		11	1									
58	36"x36"	546+54		RTE D																			10.5		10.5	1									
59	36"x36"	545+45		RTE D																			10.5		10.5	1									
60	ASSY.	545+50		RTE D																			11		11	1									
61	24"x18"	546+55		RTE D																			9		9	1									
63	24"x18"	554+53		RTE D																			9		9	1									
65	24"x18"	558+03		RTE D																			9		9			1							
67	24"x18"	561+65		RTE D																			9		9	1									
68	12"x18"	564+37		RTE D																			9		9	1									
69	ASSY.	566+13		RTE D																			11		11	1									
70	36"x36"	566+77		RTE D																			10.5		10.5	1									
72	24"x18"	562+34		RTE D																			9		9	1									
75	36"x36"	565+62		RTE D																			10.5		10.5			1							
76	ASSY.	566+01		RTE D																			11		11			1							
77	24"x18"	566+61		RTE D																			9		9			1							
79	12"x18"	568+36		RTE D																			9		9	1									
80	12"x18"	572+45		RTE D																			9		9	1									
83	24"x18"	570+98		RTE D																			9		9			1							
85	24"x18"	574+46		RTE D																			9		9	1									
86	ASSY.	575+45		RTE D																			9.5		9.5	1									
87	12"x18"	577+18		RTE D																			9		9	1									
88	24"x18"	579+08		RTE D																			9		9	1									
90	ASSY.	574+75		RTE D																			9.5		9.5			1							
91	24"x18"	575+40		RTE D																			9		9	1									
93	12"x18"	578+26		RTE D																			9		9			1							
94	24"x18"	579+75		RTE D																			9		9			1							
95	12"x18"	582+12		RTE D																			9		9	1									
96	24"x18"	583+30		RTE D																			9		9	1									
97	ASSY.	584+11		RTE D																			9.5		9.5			1							
100	ASSY.	583+41		RTE D																			9.5		9.5			1							
101	24"x18"	584+17		RTE D																			9		9			1							
102	24"x18"	587+59		RTE D																			9		9	1									
104	24"x18"	588+54		RTE D																			9		9			1							
105	24"x18"	592+85		RTE D																			9		9	1									
106	24"x18"	600+05		RTE D																			9		9			1							
107	24"x18"	602+48		RTE D																			9		9			1							
110	24"x18"	604+67		RTE D																			9		9			1							
112	ASSY.	607+12		RTE D																			9		9			1							
114	ASSY.	604+37		RTE D																			9		9			1							
117	ASSY.	607+14		RTE D																			9		9			1							
A	72"x48"	511+29		RTE D	D-31	0.72							4.0	16.5	16.5	10.79	356.1																			SP-1
B	72"x48"	516+35		RTE D	D-31																									11.5	11.5	23		2		2	SP-1
SUBTOTAL						0.72											357							385	23		18			23		2		2	
TOTAL						2.28						1290								**				801	48		35			45		3	1	2	

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

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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

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

SIGNING QUANTITIES
ROUTE D

SHEET 14 OF 17

D-29

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

c:\bms\gba-pw-01\regan hutchinson\dms23382\003_QU_14_J6S3438_I10.dgn 3:11:30 PM 1/30/2026

STANDARD SIGN ASSEMBLIES

SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH

SIGN NO.	STATION OR LOG MILE	LOCATION	SHF W1-6L 48"x24"	SHF W11-2 36"x36"	SHF W12-1 30"x30"	SHF W14-1 30"x30"	SHF W16-7P 30"x18"	SH W16-9P 30"x18"	SH R1-2 36" TRI	SH R1-3P 18"x06"	SH R1-5a 36"x36"	SH R2-1 24"x30"	SH R3-2 24"x24"	SH R3-7R 30"x30"	SH R3-9cP 24"x12"	SH R3-17 24"x18"	SH R3-17bP 24"x12"	SH R4-7 24"x30"	SH R6-1R 36"x12"	SH R7-1L 12"x18"	SH R7-SP 12"x18"	SH OM4-1 18"X18"
1	304+74	RTE D												1								
2	305+76	RTE D							1													
2A	305+79	RTE D																	1			
3	305+91	RTE D											1									
4	305+96	RTE D																1				
5	306+00	RTE D			1																	
6	306+00	RTE D											2									
7	307+70	RTE D									1									1		
7A	303+83	RTE D							1*													
8	304+72	RTE D												1								
8A	305+02	RTE D		1				1														
9	305+97	RTE D			1																	
10	306+07	RTE D																1				
11	306+12	RTE D											1									
11A	306+21	RTE D																	1			
12	306+29	RTE D							1													
13	306+75	RTE D									1											
13A	310+04	RTE D		1				1														
14	342+96	RTE D																			1	
15	343+89	RTE D						1													1	
16	346+78	RTE D									1											
17	344+31	RTE D		1				1														
18	345+78	RTE D									1											
19	348+26	RTE D		1				1														
19A	364+22	RTE D																1				
19B	365+42	RTE D																1				
20	375+38	RTE D																			1	
21	378+53	RTE D																			1	
22	384+81	RTE D																			1	
23	404+49	RTE D	1																			
24	404+37	RTE D																				1
25	404+50	RTE D																				1
26	404+64	RTE D																				1
27	405+56	RTE D				1																
28	417+19	RTE D																			1	
29	446+44	RTE D																			1	
30	448+04	RTE D																			1	
30A	492+73	RTE D		1			1															
31	493+39	RTE D									1											
32	492+40	RTE D									1											
32A	492+78	RTE D		1			1															
33	500+81	RTE D		1				1														
34	502+70	RTE D									1											
35	503+51	RTE D									1											
36	504+79	RTE D		1				1														
37	507+55	RTE D										1										
38	504+81	RTE D										1										
39	509+10	RTE D												1								
40	514+47	RTE D														1	1					
41	514+56	RTE D															1		1			
42	519+48	RTE D								1												
43	518+14	RTE D								1												
44	519+55	RTE D															1					
45	520+91	RTE D										1										
46	522+74	RTE D															1					
47	523+96	RTE D																	1			
48	527+57	RTE D															1					
51	529+07	RTE D								1												
52	527+35	RTE D								1												
53	528+86	RTE D															1					
54	534+39	RTE D															1					
55	541+41	RTE D															1					
56	540+40	RTE D															1					
57	545+69	RTE D															1					
57A	545+93	RTE D		1			1															
		TOTAL	1	9	2	1	3	7	3*	4	8	3	4	3	1	10	1	4	3	1	8	3

*SIGN 7A TO BE 48" TRIANGE

SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET: FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF* ITEM NO. 9035071A
W1-6	STD	1	48"x24"		8.00		
W11-2	STD	9	36"x36"		81.00		
W12-1	STD	2	30"x30"		12.5		
W14-1	STD	1	30"x30"		6.25		
W16-7P	STD	3	30"x18"		11.25		
W16-9P	STD	7	30"x18"		26.25		
R1-2	STD	2	36" TRI	7.79			
R1-2	STD	1	48"TRI	6.93			
R1-3P	STD	4	18"x06"	3.00			
R1-5a	STD	8	36"x36"	72.00			
R2-1	STD	3	24"x30"	15.00			
R3-2	STD	4	24"x24"	16.00			
R3-7R	STD	3	30"x30"	18.75			
R3-9cP	STD	1	24"x12"	2.00			
R3-17	STD	10	24"x18"	30.00			
R3-17bP	STD	1	24"x12"	2.00			
R4-7	STD	4	24"x30"	20.00			
R6-1R	STD	3	36"x12"	9.00			
R7-1L	STD	1	12"x18"	1.50			
R7-SP	D-31	8	12"x18"	12.00			
OM4-1	STD	3	18"x18"	6.75			
			SUB TOTAL 1	222.72	145.25		

*ORANGE, YELLOW AND YELLOW-GREEN

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D-30

SIGNING QUANTITIES
ROUTE D

SHEET 15 OF 17

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH																				
			SH	SH	SH	SH	SH	SH	SH	SHF	SH												
			R1-3P 18"x06"	HERE TO	R3-9cP 24"x12"	BIKE LANE	BEGIN RIGHT TURN LANE YIELD TO BIKES	ENDS	NO PARKING ANY TIME														
				R1-5a 36"x36"		R3-17 24"x18"	R4-4 36"x30"	R3-17bP 24"x12"	R7-1D 12"x18"	W11-2 36"x36"	W16-7p 30"x18"												
58	546+54	RTE D		1																			
59	545+45	RTE D		1																			
60	545+50	RTE D								1	1												
61	546+55	RTE D				1																	
62	555+27	RTE D				1																	
63	554+53	RTE D				1																	
64	555+10	RTE D					1																
65	558+03	RTE D				1																	
66	559+81	RTE D							1														
67	561+65	RTE D				1																	
68	564+37	RTE D							1														
69	566+13	RTE D								2	2												
70	566+77	RTE D		1																			
71	561+59	RTE D							1														
72	562+34	RTE D				1																	
73	563+50	RTE D							1														
74	565+29	RTE D							1														
75	565+62	RTE D		1																			
76	566+01	RTE D								2	2												
77	566+61	RTE D				1																	
78	567+00	RTE D							1														
79	568+36	RTE D							1														
80	572+45	RTE D							1														
81	568+92	RTE D							1														
82	570+34	RTE D							1														
83	570+98	RTE D				1																	
84	572+21	RTE D							1														
85	574+46	RTE D				1																	
86	575+46	RTE D	1																				
87	577+18	RTE D							1														
88	579+08	RTE D				1																	
89	573+94	RTE D							1														
90	574+75	RTE D	1																				
91	575+40	RTE D				1																	
92	575+71	RTE D							1														
93	578+26	RTE D							1														
94	579+75	RTE D				1																	
95	582+12	RTE D							1														
96	583+30	RTE D				1																	
97	584+11	RTE D	1																				
98	580+76	RTE D							1														
99	582+46	RTE D							1														
100	583+41	RTE D	1																				
101	584+17	RTE D				1																	
102	587+59	RTE D				1																	
103	591+08	RTE D				1																	
104	588+54	RTE D				1																	
105	592+85	RTE D				1																	
106	600+05	RTE D				1																	
107	602+48	RTE D				1																	
108	602+51	RTE D							1														
109	604+23	RTE D							1														
110	604+67	RTE D				1																	
111	605+88	RTE D							1														
112	607+12	RTE D			1	1																	
113	603+34	RTE D							1														
114	604+37	RTE D				1																	
115	604+88	RTE D							1														
116	606+32	RTE D							1														
117	607+14	RTE D				1		1															
		TOTAL	4	4	1	24	1	1	24	5	5												

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SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET			
				FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF* ITEM NO. 9035071A
R1-3P	STD	4	18"x06"	3.00			
R1-5a	STD	4	18"x06"	3.00			
R3-9cP	STD	1	24"X12"	2.00			
R3-17	STD	24	24"x18"	72.00			
R3-17bP	STD	1	24"X12"	2.00			
R4-4	STD	1	36"X30"	7.50			
R7-1D	STD	24	12"X18"	36.00			
W11-2	STD	5	36"X36"		45.00		
W16-7p	STD	5	30"x18"		18.75		
SP-1 (A)	D-31	1	72"x48"	24.00			
SP-1 (B)	D-31	1	72"x48"			24.00	
SUB TOTAL 1				222.72	145.25	0.00	
SUB TOTAL 2				149.5	63.75	24.00	
TOTAL				373	209	24	

*ORANGE, YELLOW AND YELLOW-GREEN

D-30

SIGNING QUANTITIES
ROUTE D

SHEET 16 OF 17

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
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DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
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DESCRIPTION	DATE

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CHRISTOPHER NOVOSEL
PROFESSIONAL
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PE-2018024421

REV.

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PERMANENT PAVEMENT MARKING

PLAN SHEET NO.	BEGIN STATION	END STATION	ROADWAY	LOCATION	MULTI-COMPONENT LIQUID PAVEMENT MARKING							PREFORMED THERMOPLASTIC PAVEMENT MARKING					
					4" YELLOW 620-99.03		6" WHITE 620-99.03			24" SOLID WHITE	24" SOLID YELLOW	LEFT /RIGHT ARROW	STRAIGHT ARROW	COMBINATION STR/LT	WORD (ONLY)	24" X 36", YIELD LINE TRIANGLE	BICYCLE SYMBOL
					SOLID	INTERMITTENT	SOLID	INTERMITTENT	DOTTED	620-99.03	620-99.03	620-00.21	620-00.24	620-00.27	620-00.30	620-00.42A	620-00.57
					(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)
1	-	308+50	ROUTE D	LT/RT	1674		2435	35	56	951	106	7			1	25	
2	308+50	314+50	ROUTE D	LT/RT	1189	193	2158			123	38	2					
3	314+50	321+50	ROUTE D	LT/RT	1606	179	2635			478	25	4					
4	321+50	328+50	ROUTE D	LT/RT	1834	150	2552			431	107	5					
5	328+50	336+00	ROUTE D	LT/RT	1266	187	2233			163	13	4				8	
6	336+00	343+50	ROUTE D	LT/RT	1548	90	2622			466	57	2				8	
7	343+50	348+00	ROUTE D	LT/RT	1000	50	1718			153		3				8	
8	348+00	355+50	ROUTE D	LT/RT	1715	185	2486			493	40	5				8	
9	355+50	362+00	ROUTE D	LT/RT	1300	272	2414			135		4				8	
10	362+00	369+50	ROUTE D	LT/RT	1256	172	2444		110	516		6	2				
11	369+50	377+00	ROUTE D	LT/RT	1735	97	2640			276	137	1				8	
12	377+00	384+50	ROUTE D	LT/RT	1562		2343			868	132	2					
13	384+50	390+50	ROUTE D	LT/RT	1708		1925			75	200	3			1		
14	390+50	396+50	ROUTE D	LT/RT	1248	71	1701			435	131	7	2		2		
15	396+50	403+50	ROUTE D	LT/RT	1398		2087			366		3					
16	403+50	409+00	ROUTE D	LT/RT	1088	39	1613			34	126	4					
17	409+00	416+50	ROUTE D	LT/RT	1925		2275			548	145	3				8	
18	416+50	422+50	ROUTE D	LT/RT	1333	146	2036			240	112	4				8	
19	422+50	428+50	ROUTE D	LT/RT	1073	160	1672			217		2					
20	428+50	435+50	ROUTE D	LT/RT	1638	64	2033			460	244	4	2				
21	435+50	440+00	ROUTE D	LT/RT	900	136	1798			141	297	2					
22	440+00	446+00	ROUTE D	LT/RT	1469	50	1729			535		4	2				
23	446+00	453+50	ROUTE D	LT/RT	2233		2567			759	395	4	2				
24	453+50	461+00	ROUTE D	LT/RT	1993		3038			116	257	1					
25	461+00	466+50	ROUTE D	LT/RT	1699		1658			411	206	4	2				
26	466+50	474+00	ROUTE D	LT/RT	2109	98	2618			457	234	5	1				
27	474+00	480+50	ROUTE D	LT/RT	1300	131	2455			123		3					
28	480+50	488+00	ROUTE D	LT/RT	1859	125	2592			420	155	7					
29	488+00	495+50	ROUTE D	LT/RT	2182		2939			198	276	3				11	
30	495+50	503+00	ROUTE D	LT/RT	1193	184	2435			492		6				4	
31	503+00	508+00	ROUTE D	LT/RT	843	91	1157		46	456		3	1			4	
32	508+00	515+50	ROUTE D	LT/RT	1228	54	1724	3		670	80	4	5				2
33	515+50	522+50	ROUTE D	LT/RT	1126		2284	66	170	189							4
34	522+50	530+00	ROUTE D	LT/RT	955		2279		150	427							8
35	530+00	537+50	ROUTE D	LT/RT	1335		2560		134	177							4
36	537+50	545+00	ROUTE D	LT/RT	1242		2453		159	133							5
37	545+00	552+50	ROUTE D	LT/RT	1290		2127		251	88						8	8
38	552+50	560+00	ROUTE D	LT/RT	1472		2035		167	309	68	3	1	1			3
39	560+00	567+50	ROUTE D	LT/RT	1450	85	2863		132	320	35	3				24	6
40	567+50	573+00	ROUTE D	LT/RT	991	73	2184		36	103		3					2
41	573+00	580+50	ROUTE D	LT/RT	1241	146	2668		122	591		4					8
42	580+50	587+50	ROUTE D	LT/RT	1257	151	2689		91	466		4					4
43	587+50	595+00	ROUTE D	LT/RT	1238	204	2830		83	205		5					4
44	595+00	602+50	ROUTE D	LT/RT	1292	213	2805			466		4					4
45	602+50	-	ROUTE D	LT/RT	856	140	1800		63	249		4					6
TOTAL					63848	3937	102310	104	1770	15925	3618	151	20	1	4	140	68

OPTIONAL TEMPORARY PAVEMENT MARKING PAINT
1 LUMP SUM

PAVEMENT MARKING QUANTITIES
ROUTE D

SHEET 17 OF 17

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

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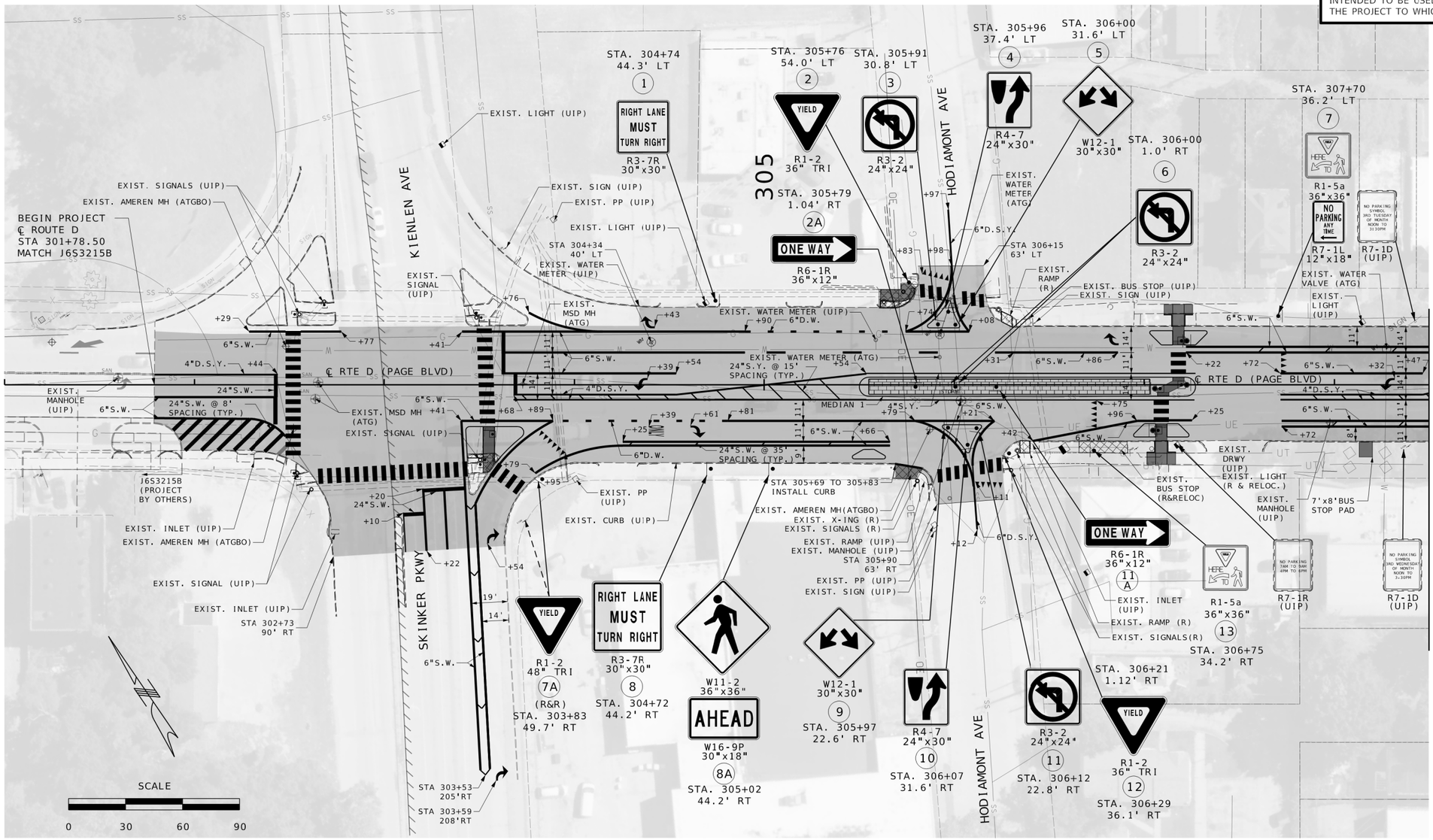

NOTES:
1. AERIAL DOES NOT REFLECT IMPROVEMENTS BY OTHERS ON ROUTE D (PAGE AVE).
2. SIGNAGE INCLUDED ON PROJECT PLANS IS NOT A COMPLETE ACCOUNTING OF ALL EXISTING SIGNS WITHIN PROJECT LIMITS. LOCATION OF EXISTING MODOT SIGNAGE IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE AT THIS TIME AND LISTED IMPROVEMENTS.
3. SEE CURB AND MEDIAN DETAIL SHEETS FOR CONCRETE MEDIAN STRIP DETAILS
4. SEE RRFB PLAN SHEET FOR HODIAMONT SIGN DETAILS, SHEET 191
5. PAVE SIDE ROADS TO EXISTING JOINTS, UNLESS NOTED ON PLANS. FIELD VERIFY JOINTS.
6. SEE SIGNAL PLAN SHEET FOR PROPOSED LIGHTING AT HODIAMONT, SHEET 111

PAVEMENT LEGEND
- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND
- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

PLAN SHEET
SHEET 1 OF 45

MATCHLINE STA. 308+50.00

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	4

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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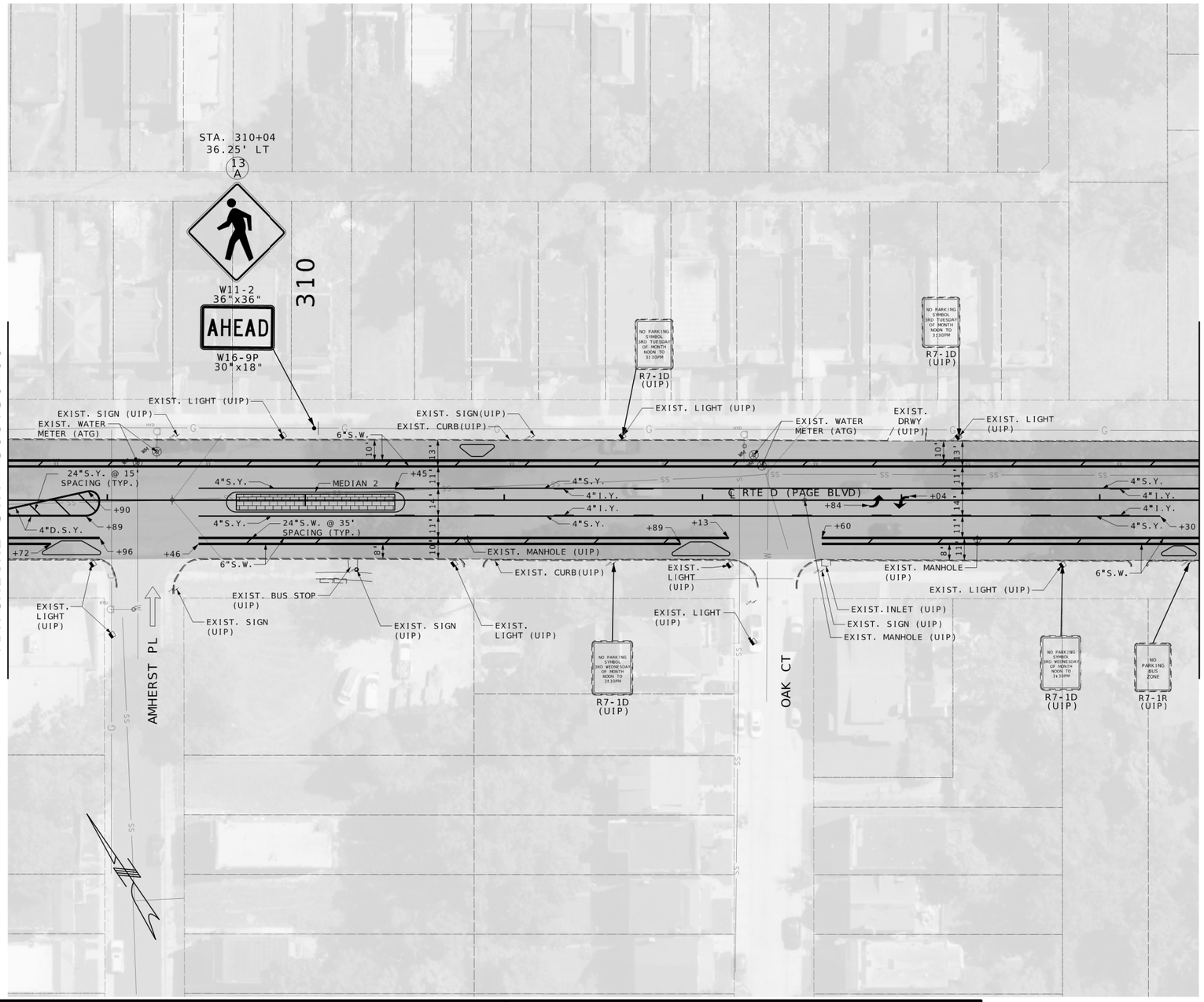

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

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- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 2 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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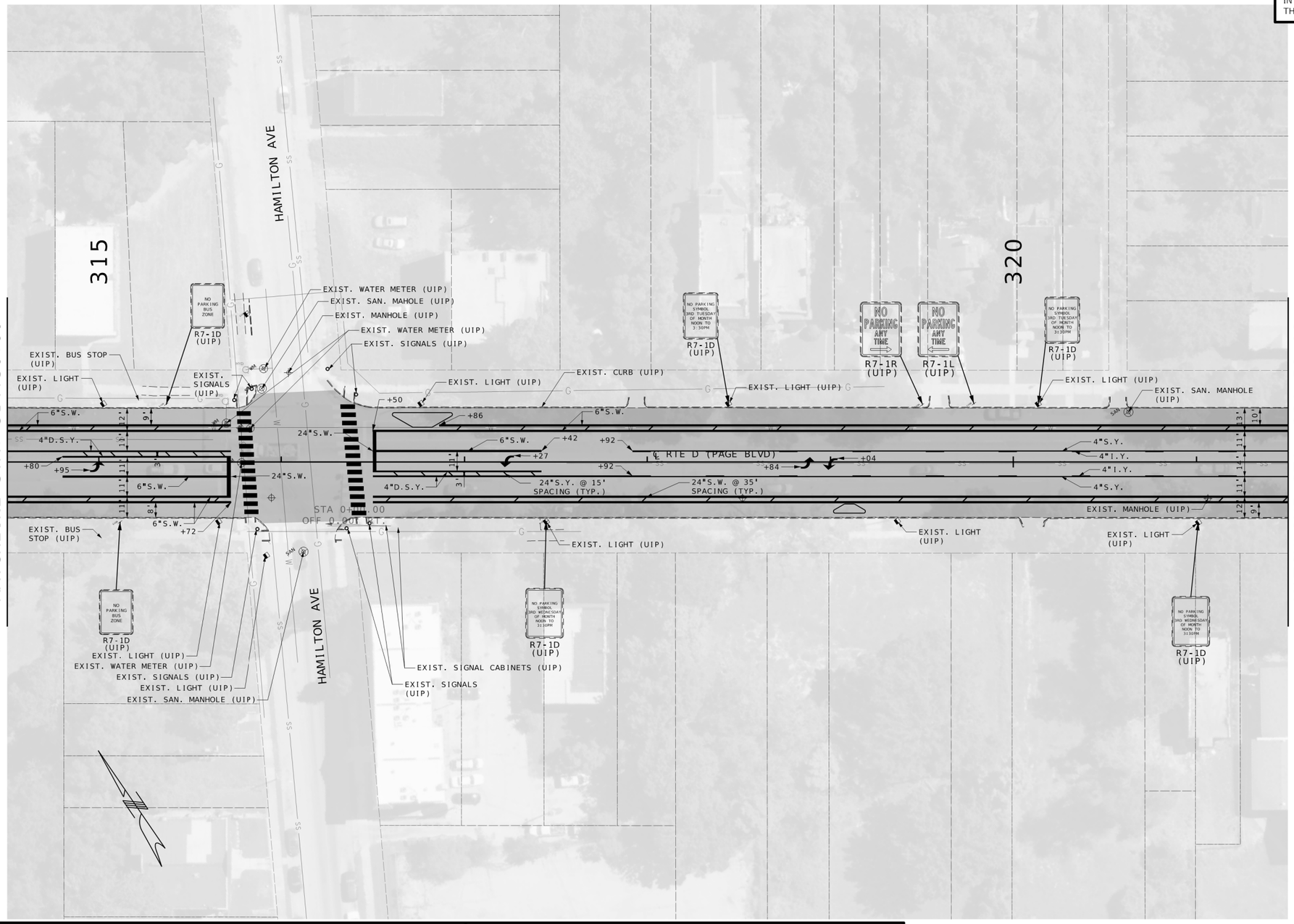

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

REV.

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

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 3 OF 45

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MATCHLINE STA. 321+50.00
MATCHLINE STA. 328+50.00
LAUREL ST
GOODFELLOW BLVD
325
℄ RTE D (PAGE BLVD)
NO PARKING SYMBOL 3RD WEDNESDAY OF MONTH NOON TO 3:30PM
NO PARKING SYMBOL 3RD TUESDAY OF MONTH NOON TO 3:30PM
NO PARKING BUS ZONE
R7-1D (UIP)
EXIST. LIGHT (UIP)
EXIST. INLET (UIP)
EXIST. WATER METER (UIP)
EXIST. MANHOLE (UIP)
EXIST. SIGN (UIP)
EXIST. SIGNALS (UIP)
EXIST. WATER METER (ATG)
EXIST. SAN. MANHOLE (UIP)
EXIST. MANHOLE (UIP)
EXIST. DRWY (UIP)
EXIST. BUS STOP (UIP)
6"S.W.
4"S.Y.
4"I.Y.
24"S.Y. @ 15' SPACING (TYP.)
4"D.S.Y.
24"S.W.
24"S.W. @ 35' SPACING (TYP.)
EXIST. SAN. MANHOLE (UIP)
EXIST. INLET (UIP)
EXIST. LIGHT (UIP)
EXIST. DRWY (UIP)
EXIST. BUS STOP (UIP)
EXIST. SIGNALS (UIP)
EXIST. WATER METER (UIP)
EXIST. WATER METER (ATG)
EXIST. LIGHT (UIP)
EXIST. DRWY (UIP)
EXIST. LIGHT (UIP)
EXIST. LIGHT (UIP)
EXIST. LIGHT

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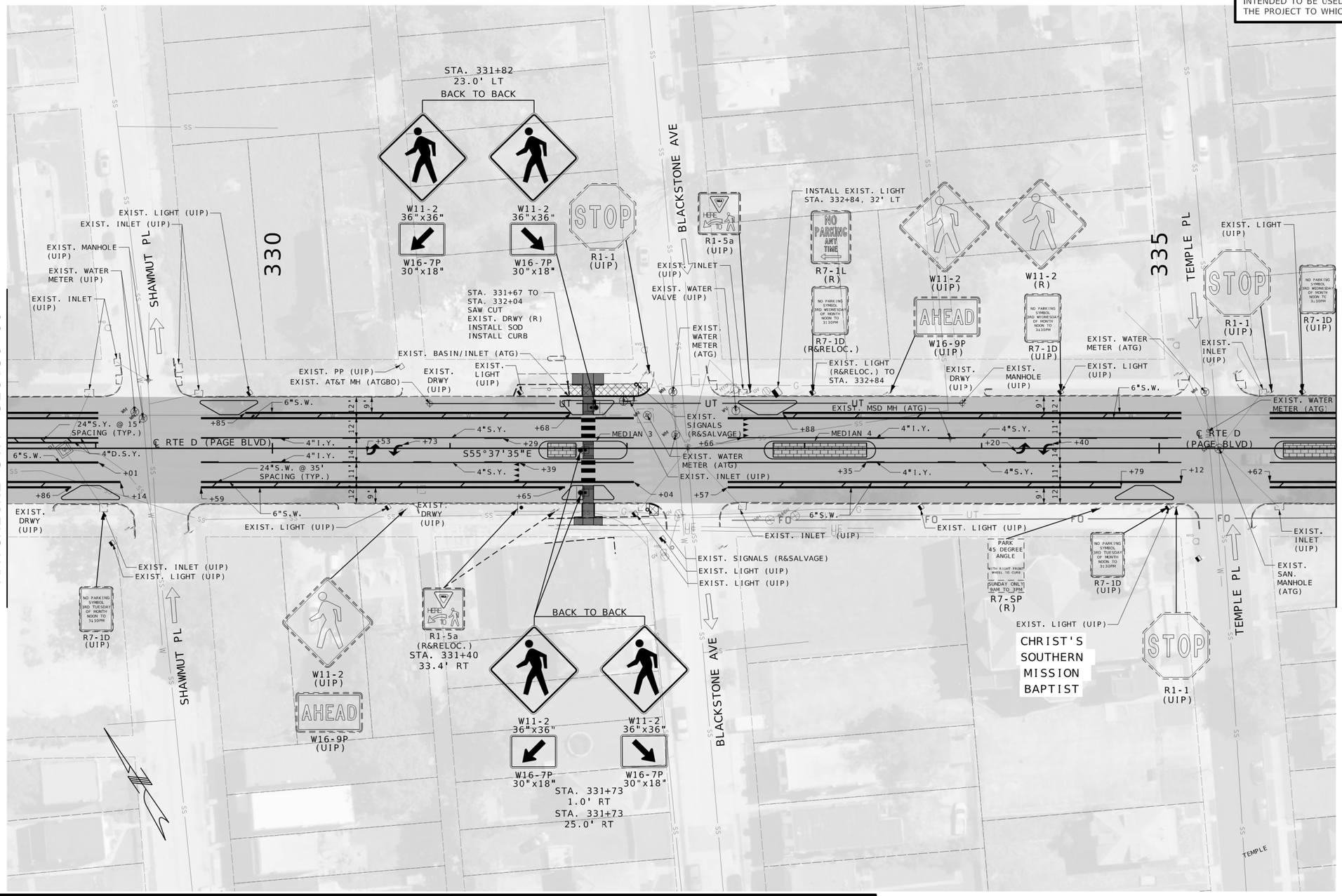

PAVEMENT LEGEND

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- SOLID YELLOW (S.Y.)
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- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 5 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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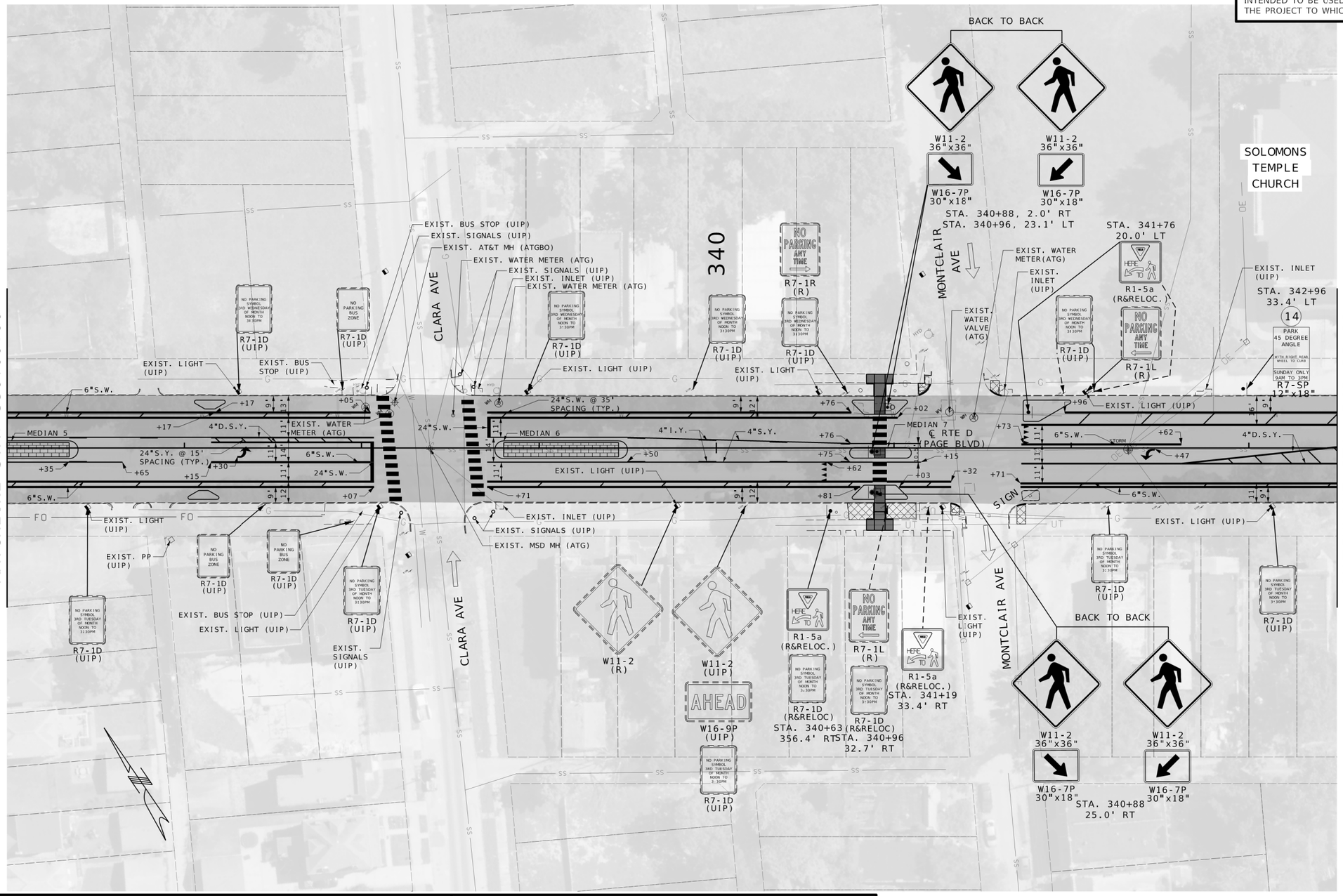

PAVEMENT LEGEND

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SCALE
0 30 60 90

PLAN SHEET
SHEET 6 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

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

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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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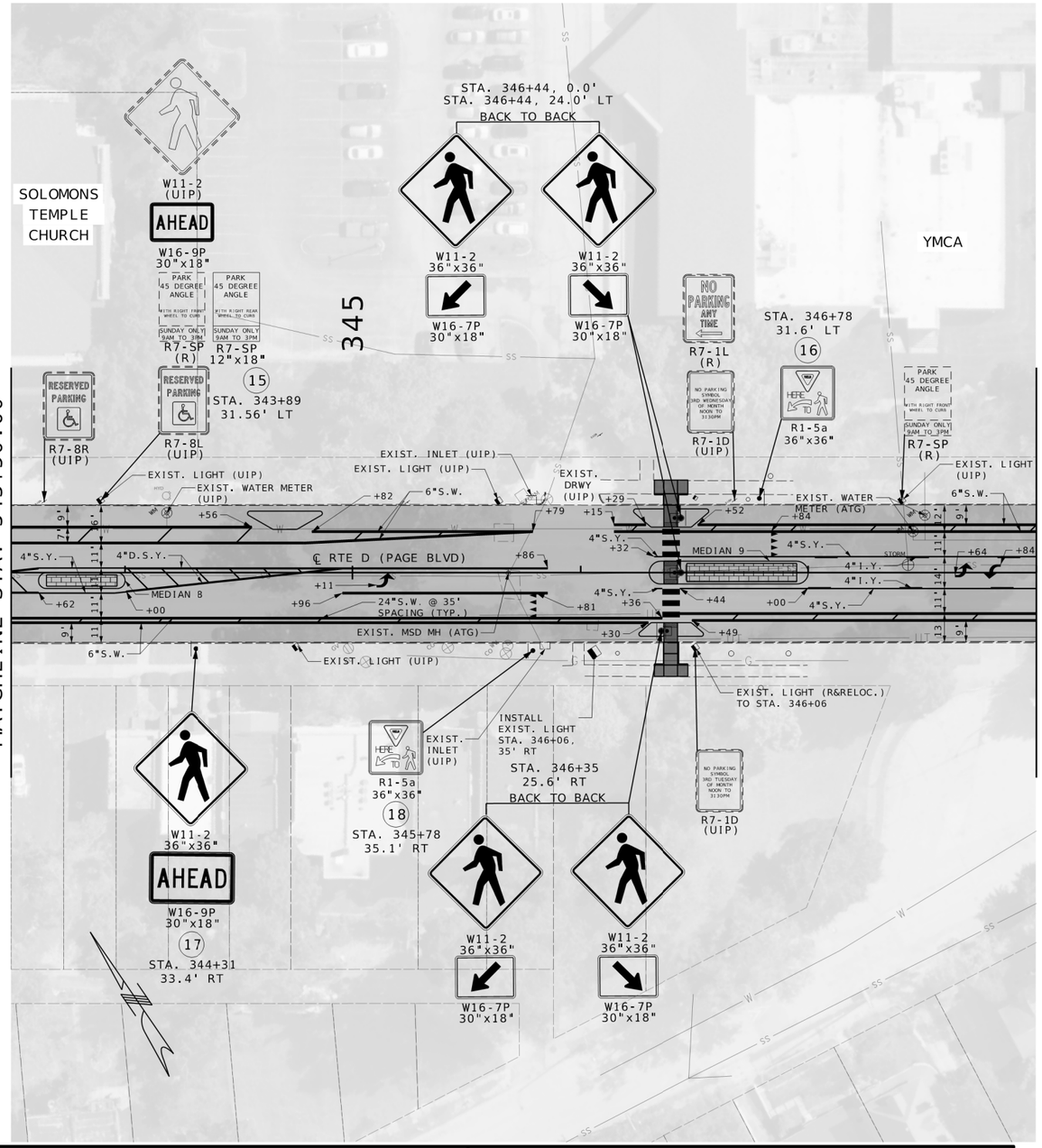

PAVEMENT LEGEND

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- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE

0 30 60 90

PLAN SHEET
SHEET 7 OF 45

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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PROFESSIONAL ENGINEER
PE-2018040668

REV.

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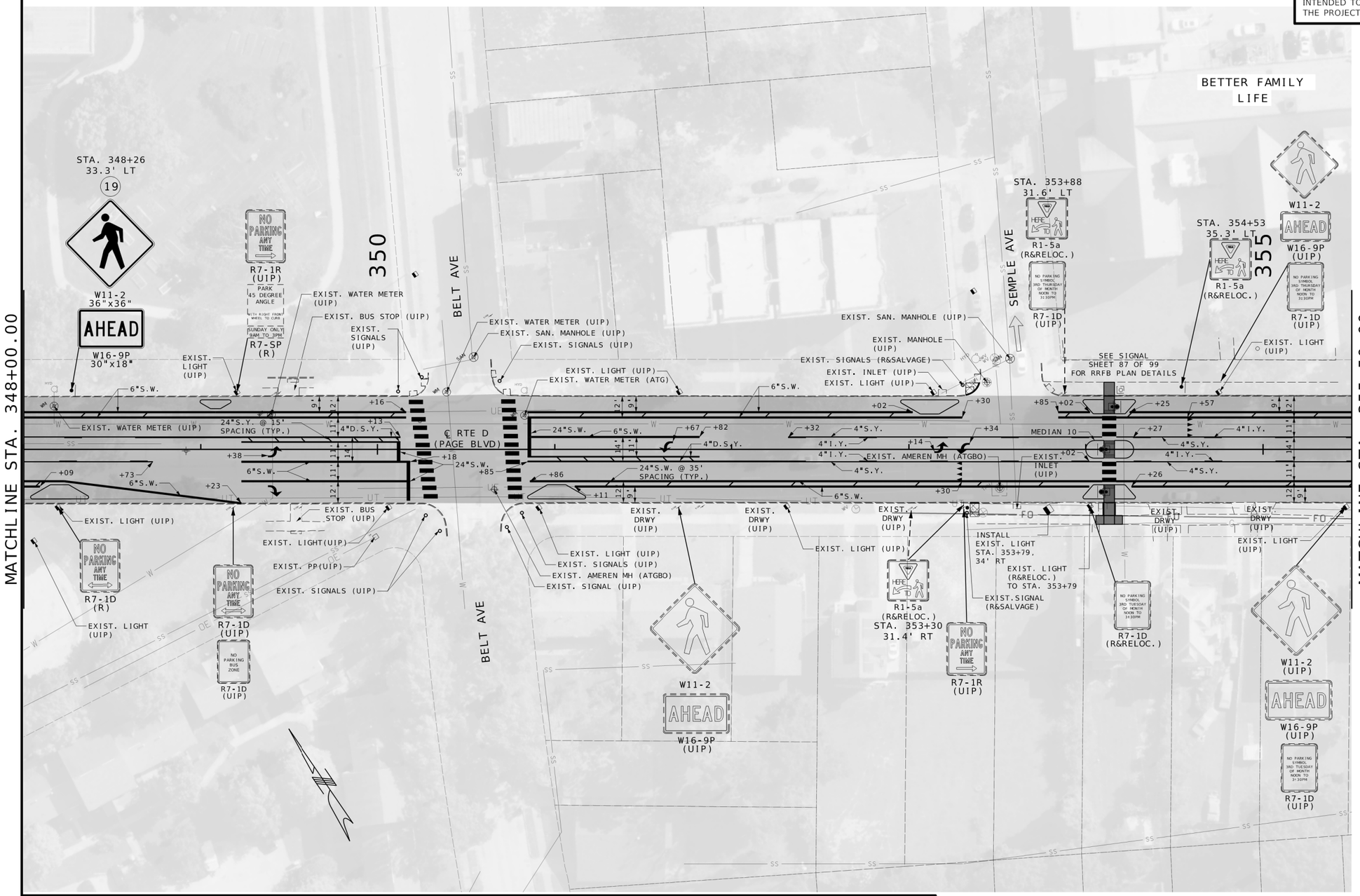

BETTER FAMILY LIFE

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
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- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 8 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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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16305 SWINGLEY RIDGE RD
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PROFESSIONAL ENGINEER
PE-2018040668

REV.

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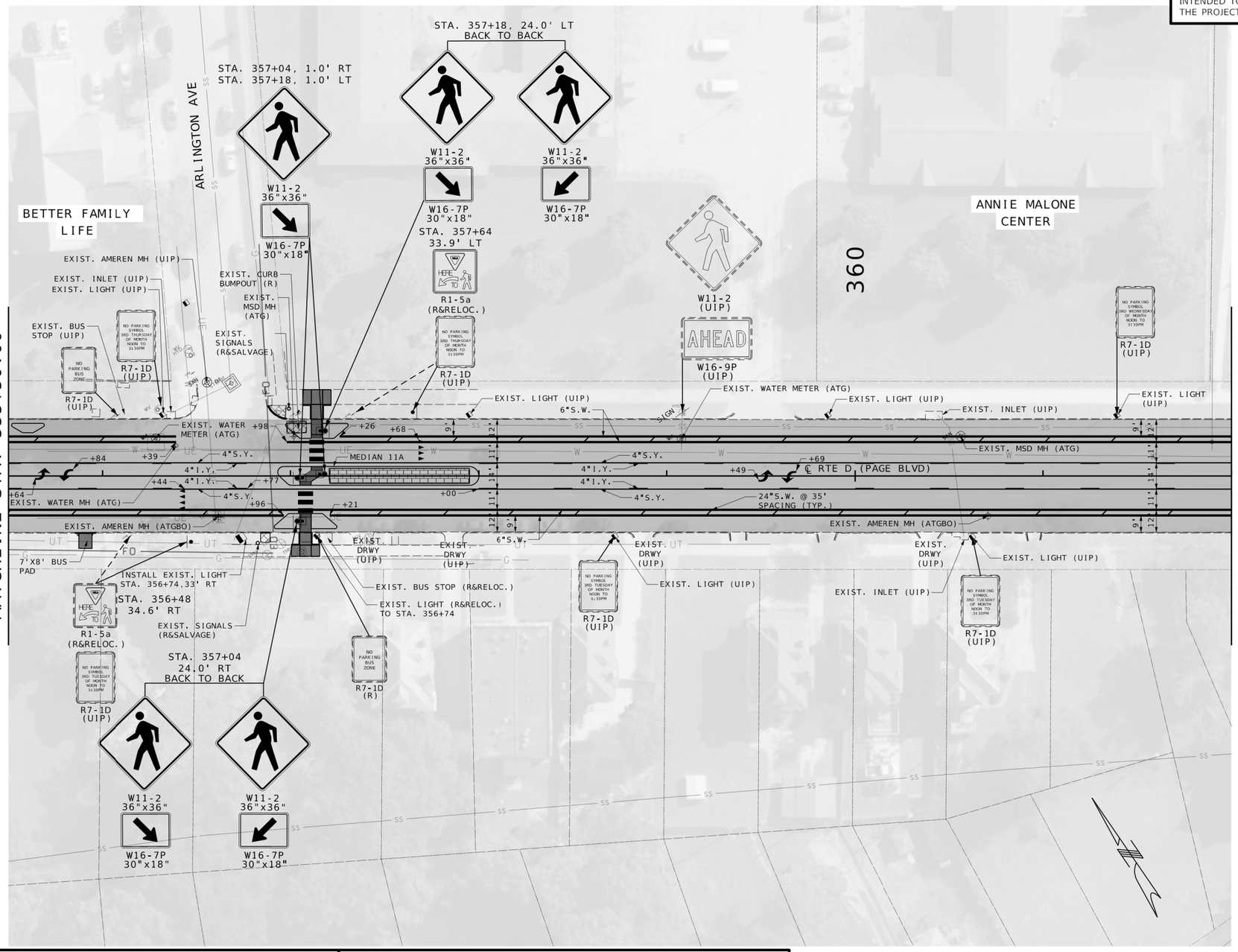

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 9 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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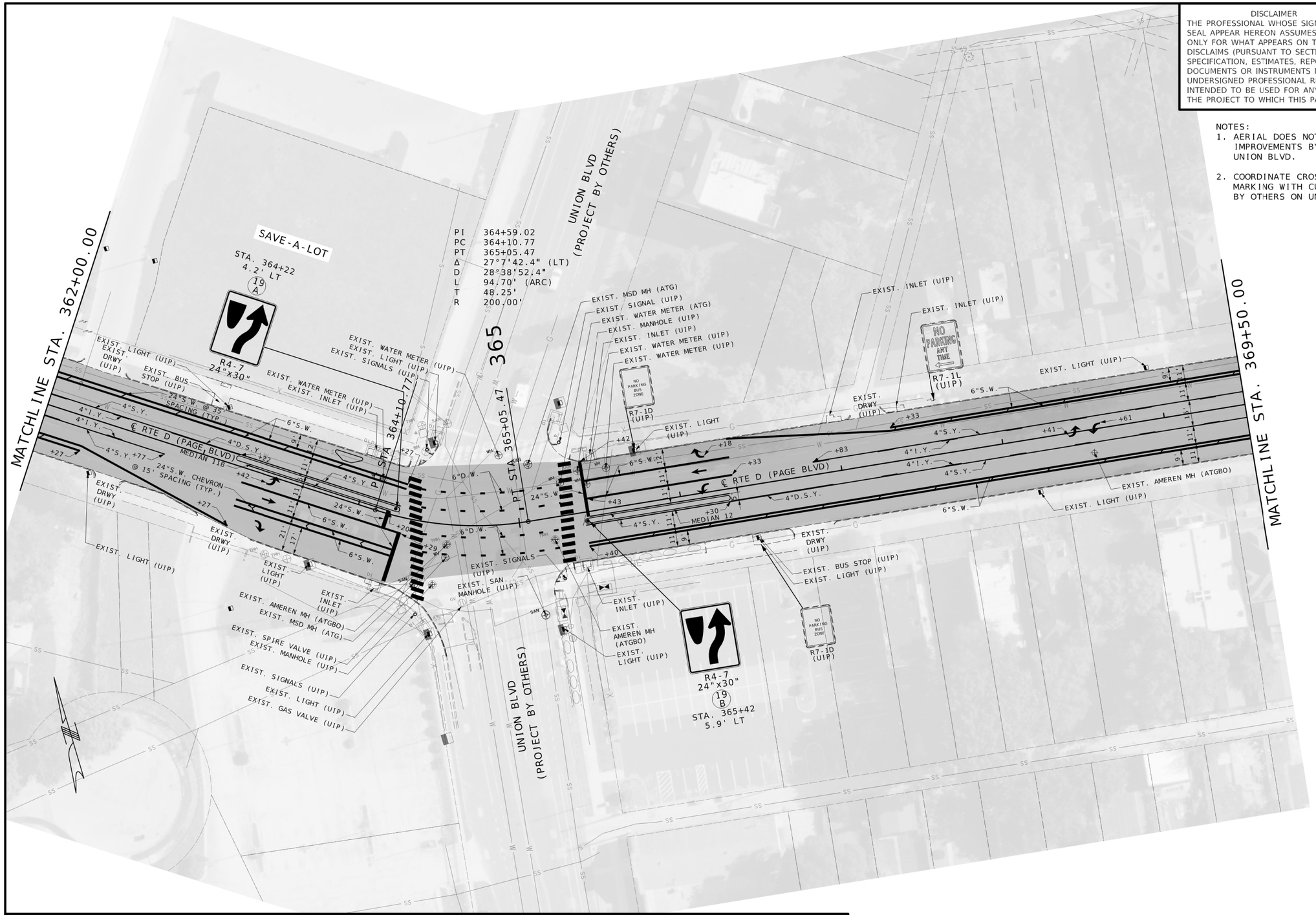

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NOTES:

1. AERIAL DOES NOT REFLECT IMPROVEMENTS BY OTHERS ON UNION BLVD.
2. COORDINATE CROSSWALK PAVEMENT MARKING WITH CURB RAMPS PROJECT BY OTHERS ON UNION.

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE

0 30 60 90

PLAN SHEET
SHEET 10 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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PROFESSIONAL
ENGINEER
PE-2018040668

REV.

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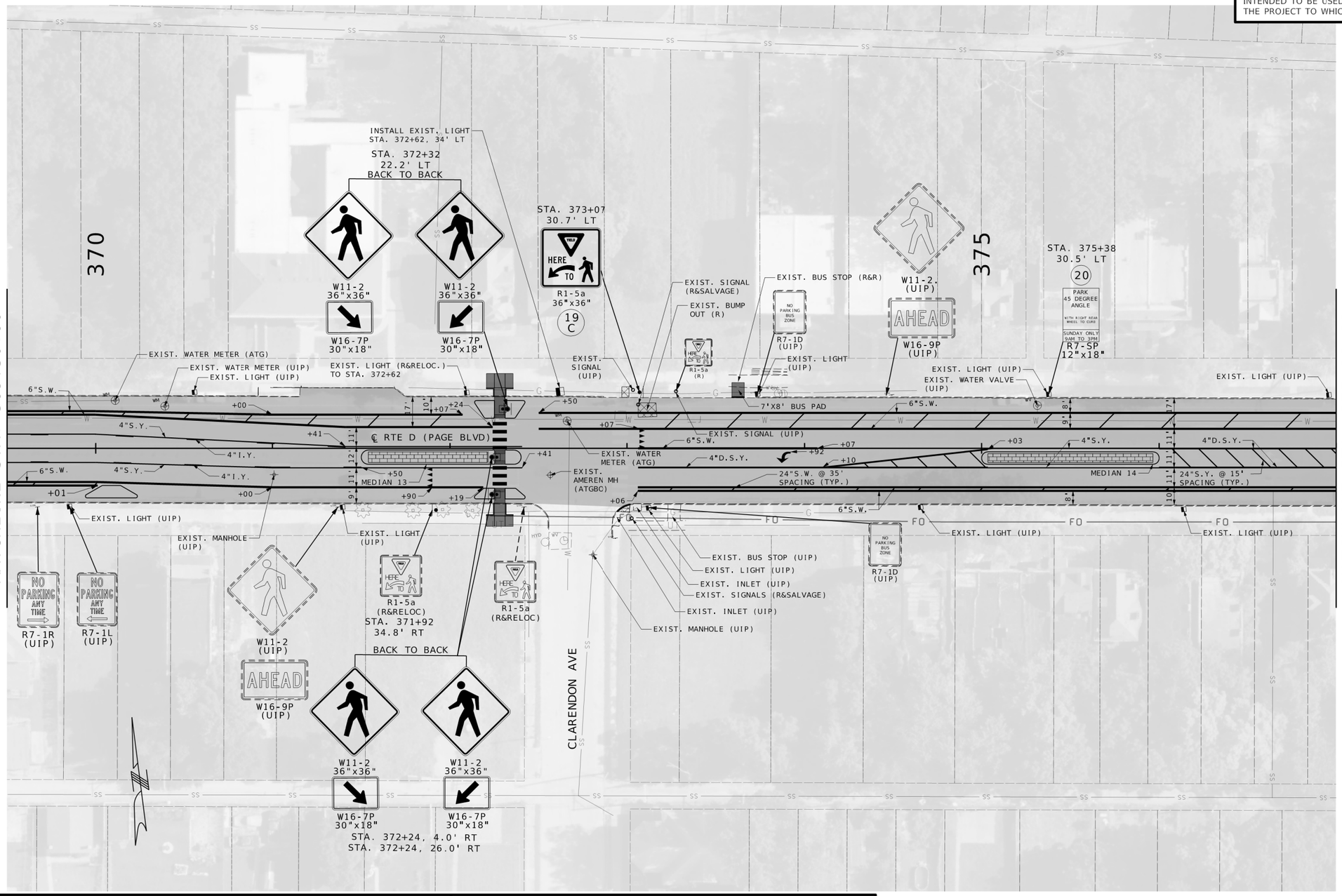

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 11 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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PRO. LAND SURVEYOR 000059

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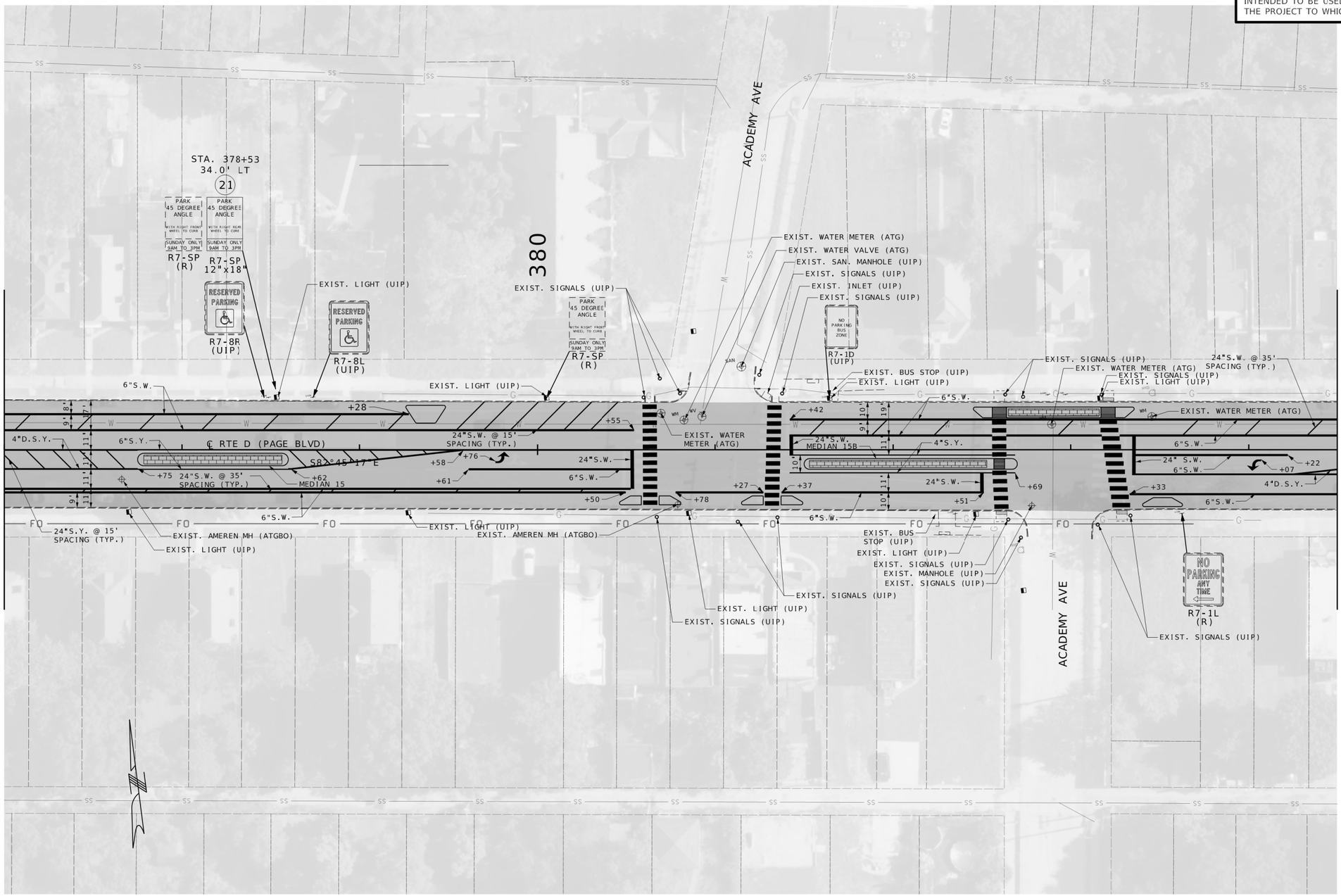

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 12 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

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

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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION

DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 13 OF 45

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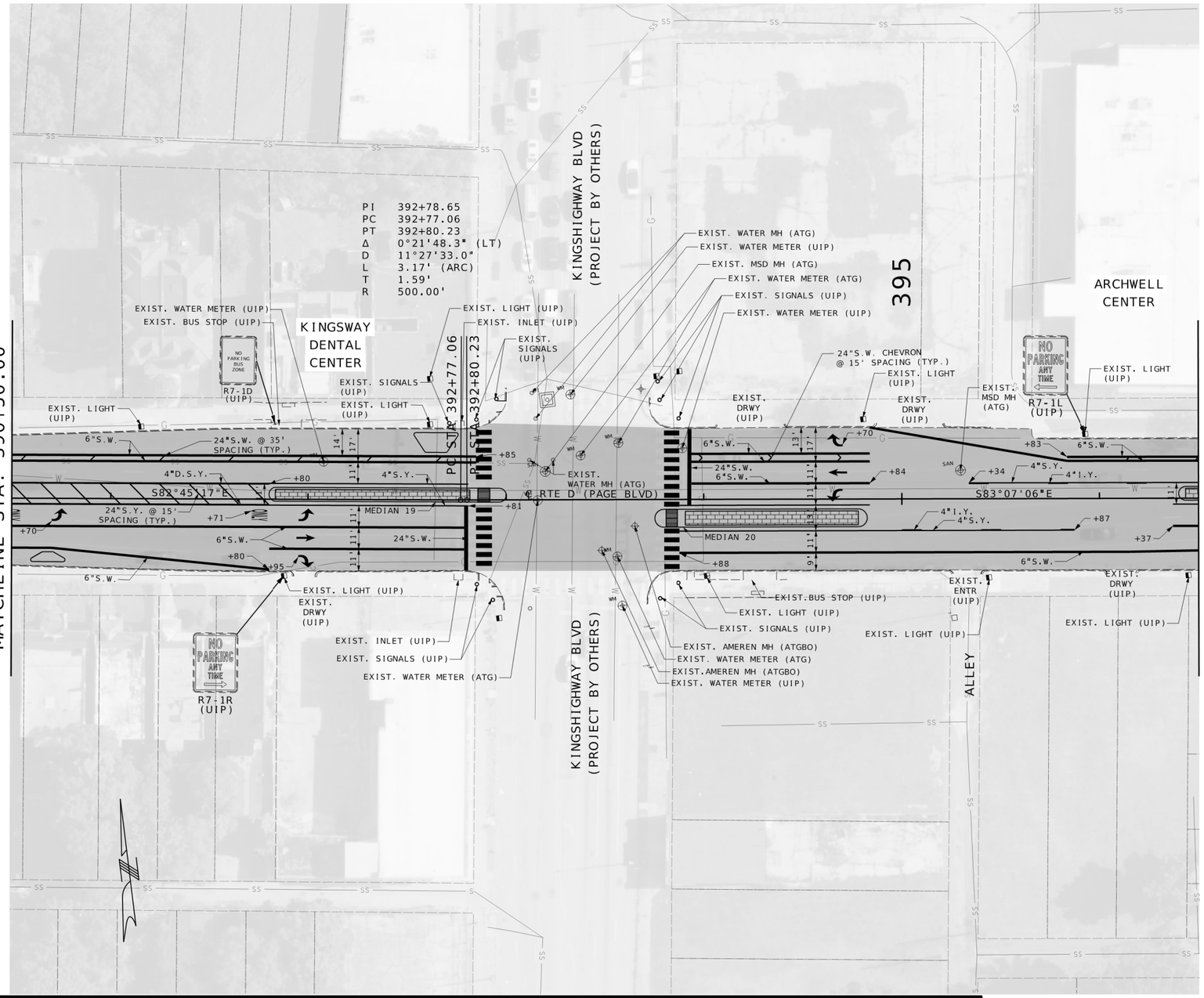

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	17

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 14 OF 45

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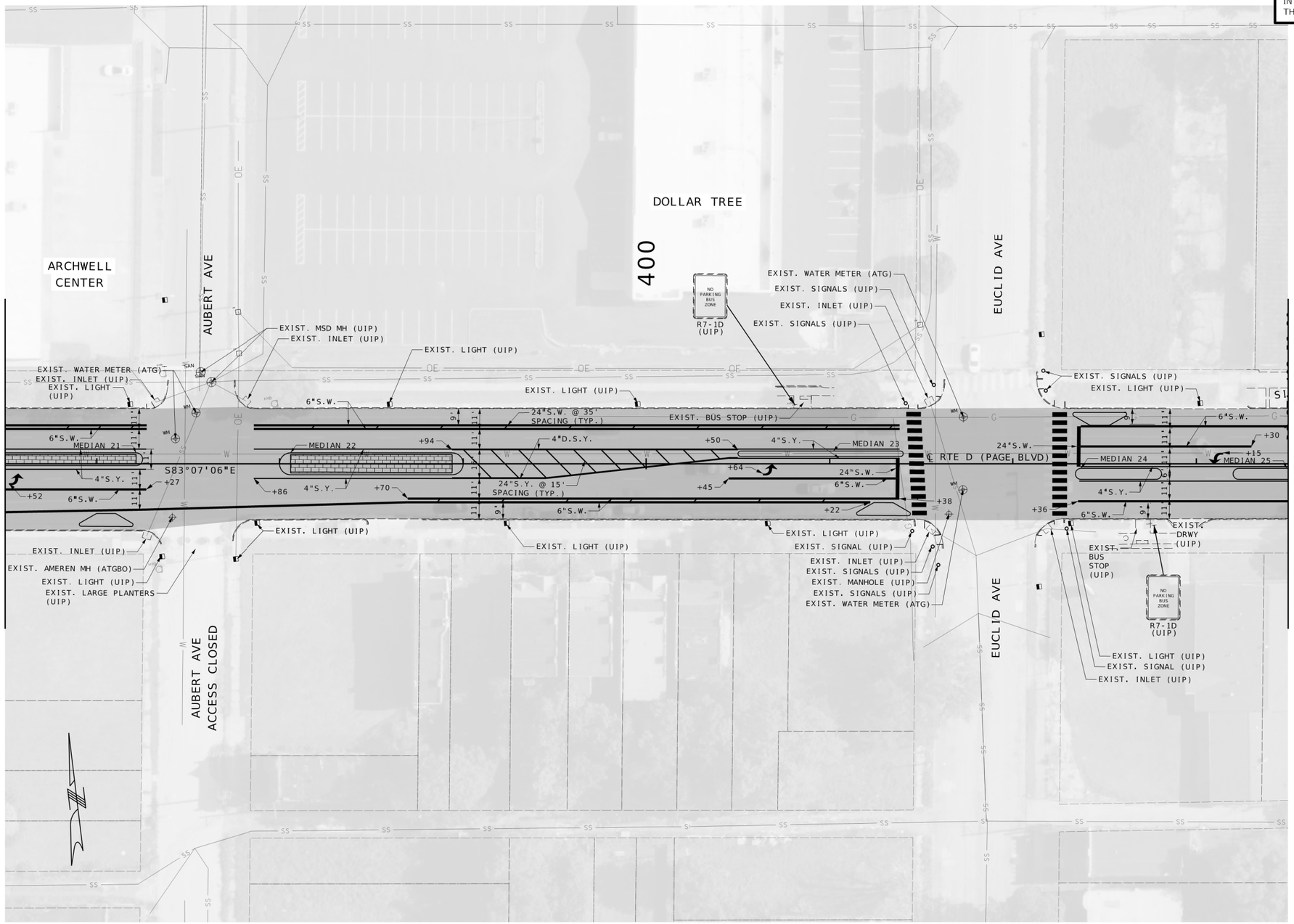

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUCKEE DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 15 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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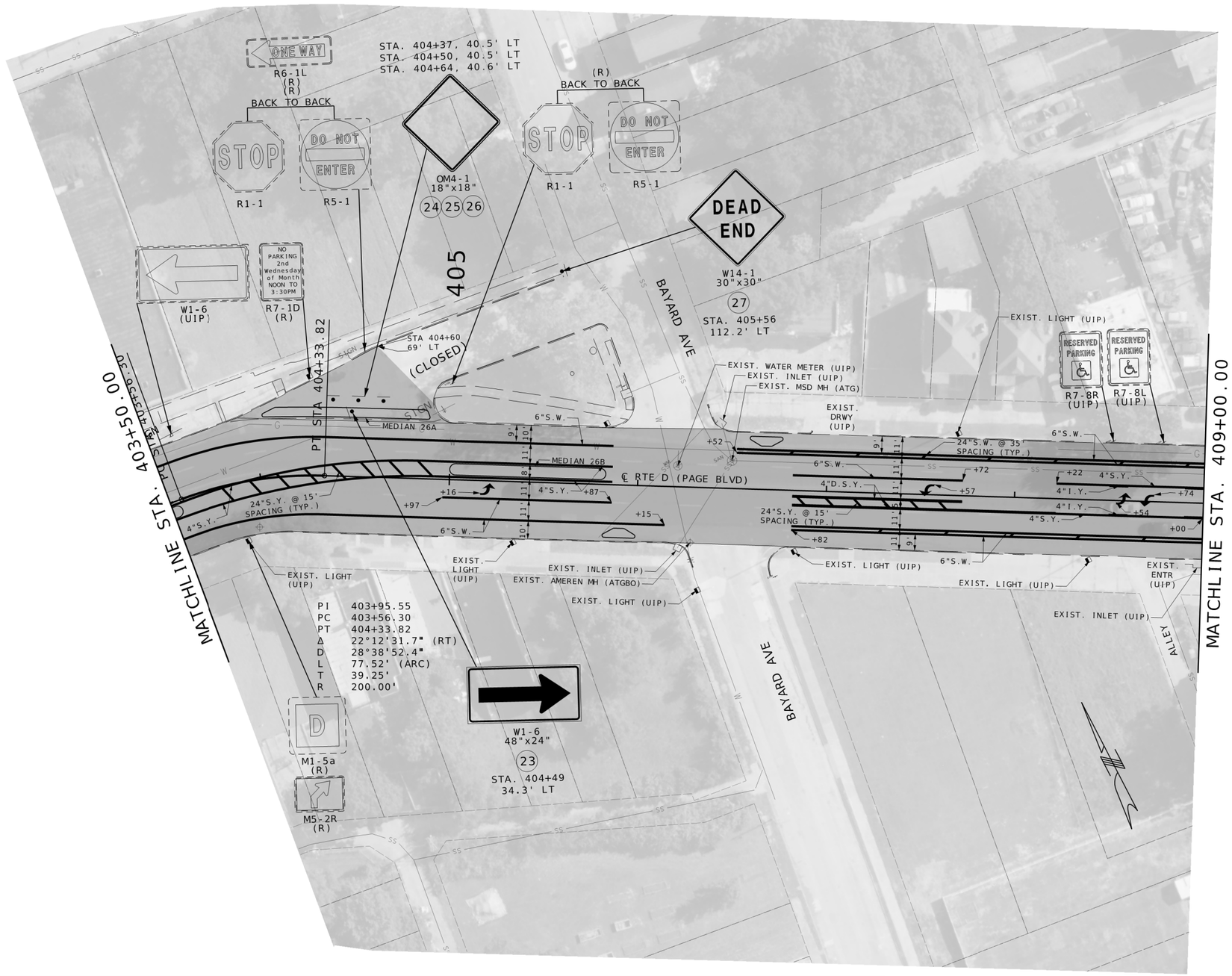

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
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THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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

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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
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- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

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- DOTTED WHITE (D.W.)
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SCALE
0 30 60 90

PLAN SHEET
SHEET 16 OF 45

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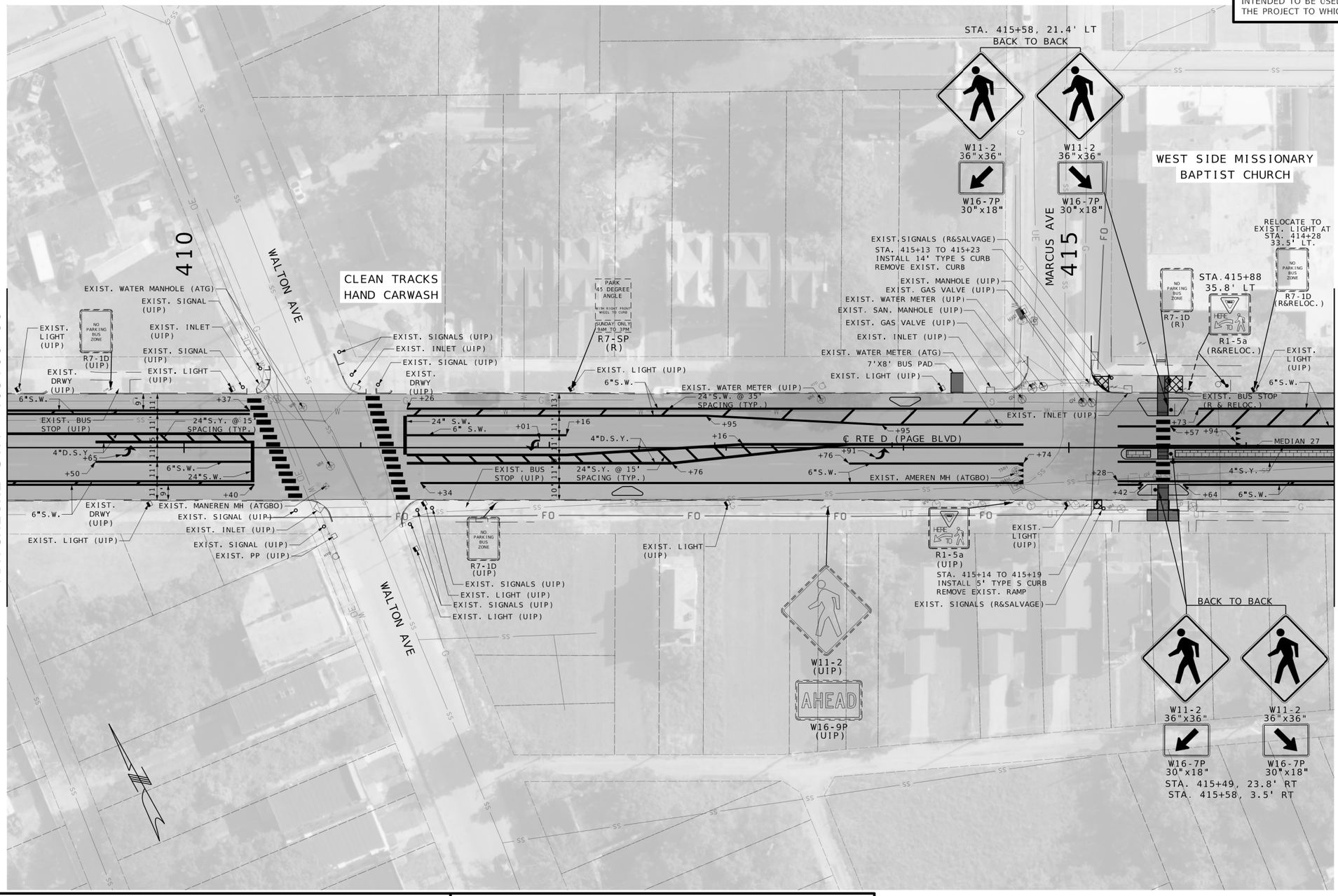

PAVEMENT LEGEND

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- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 17 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PE-2018040668

REV.

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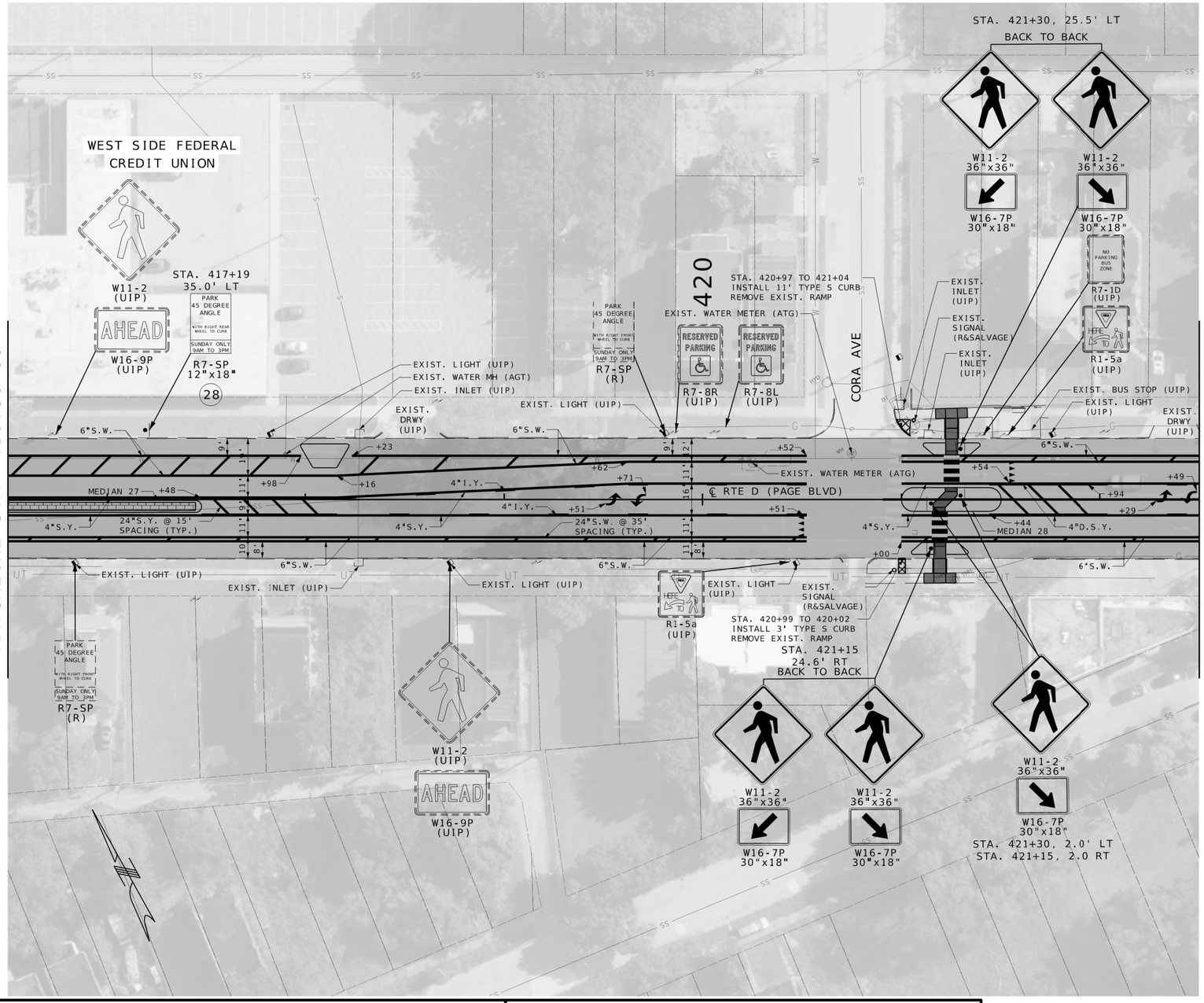

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 18 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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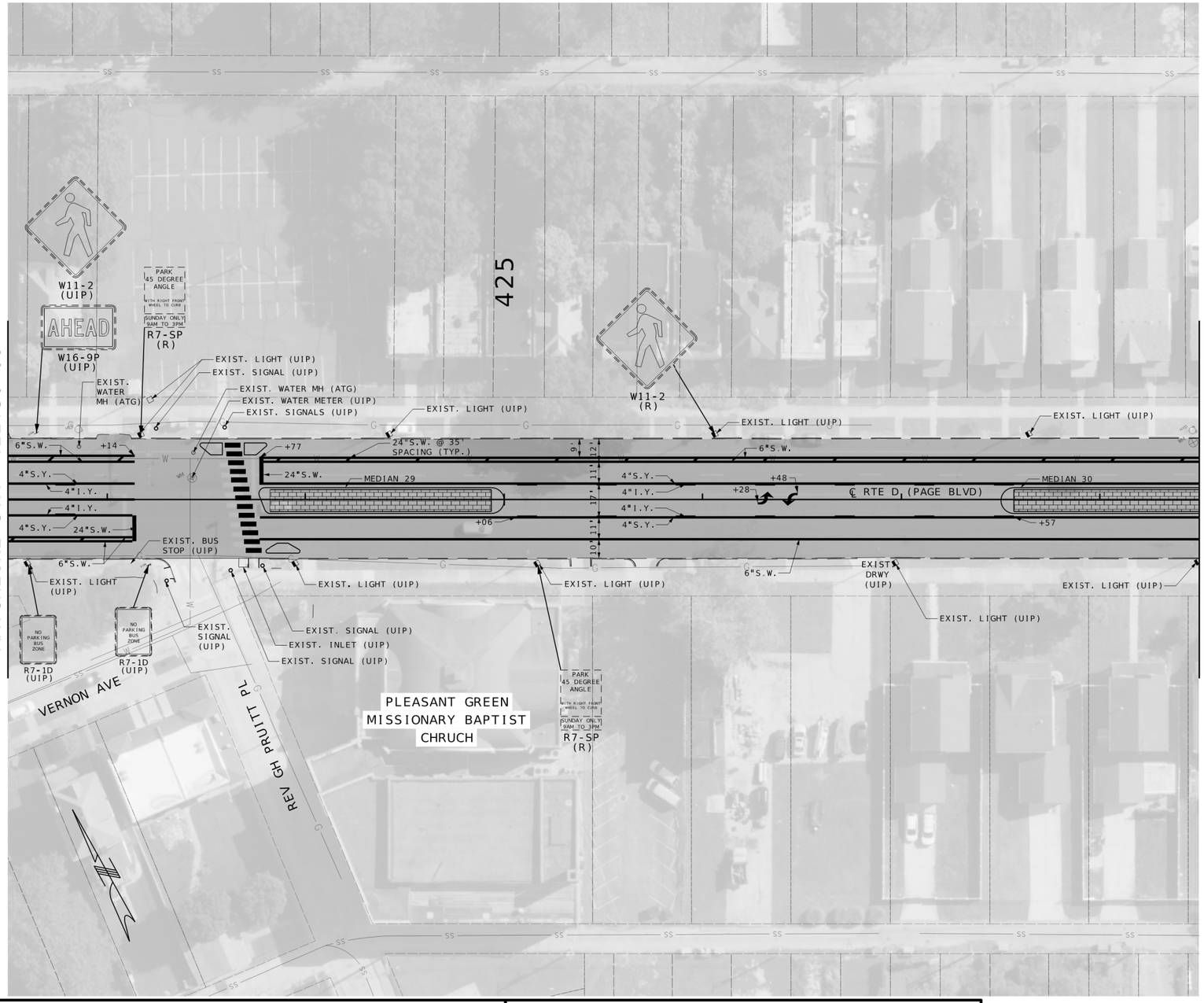

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE

0 30 60 90

PLAN SHEET
SHEET 19 OF 45

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

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JEFFERSON CITY, MO 65102
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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
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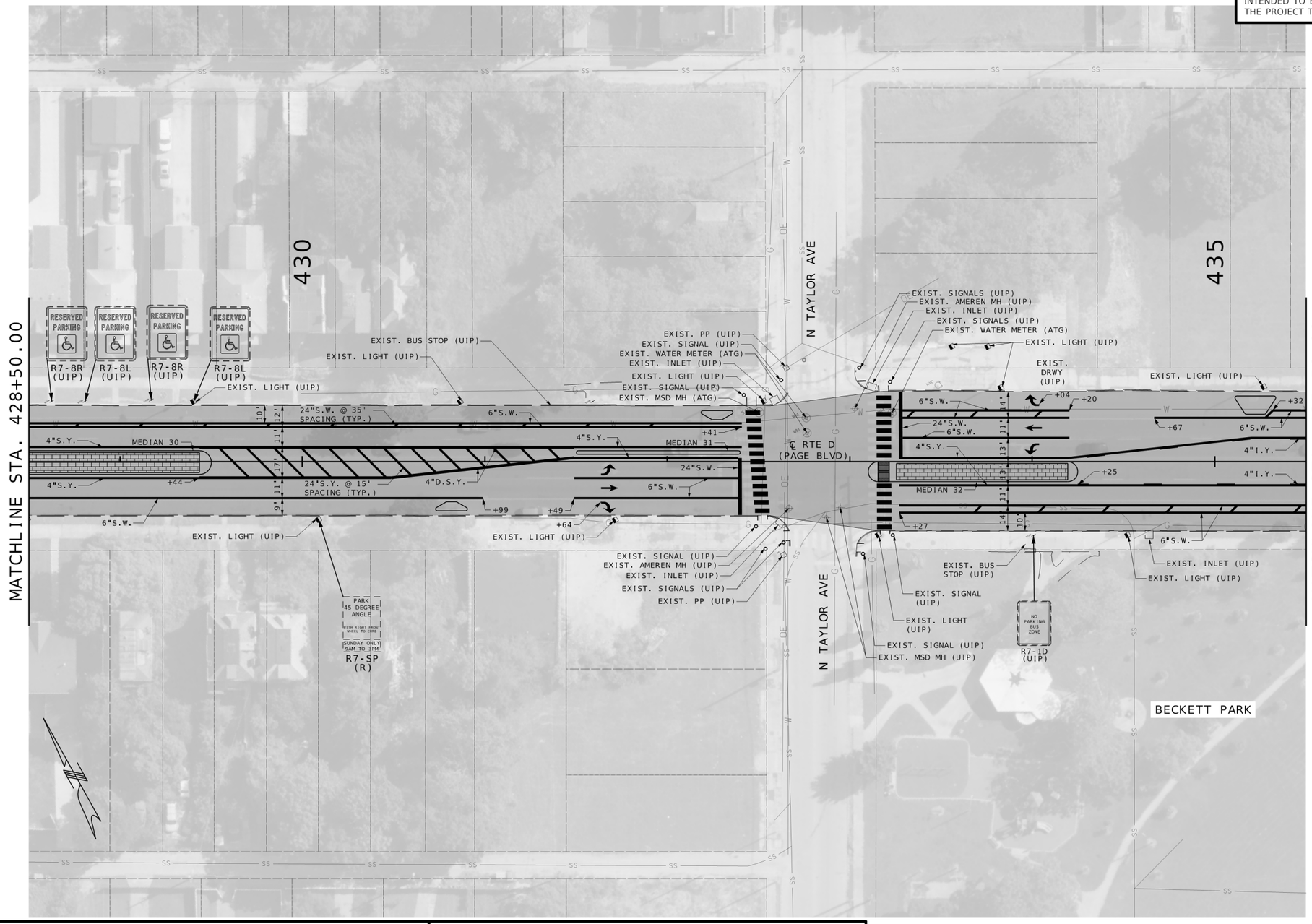

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 20 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	23

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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PE-2018040668

REV.

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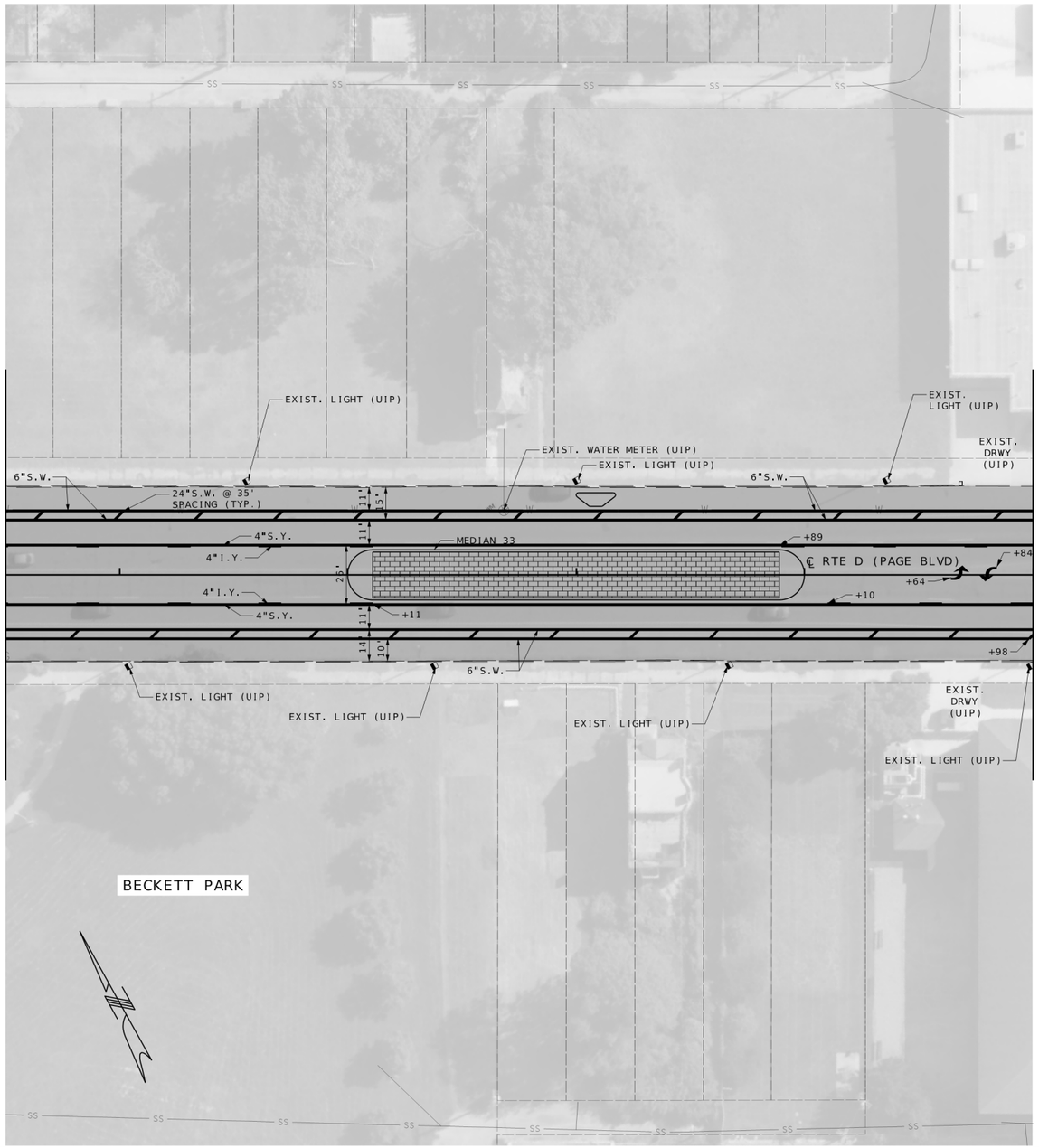

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

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- SOLID WHITE (S.W.)
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- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE

0 30 60 90

PLAN SHEET
SHEET 21 OF 45

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NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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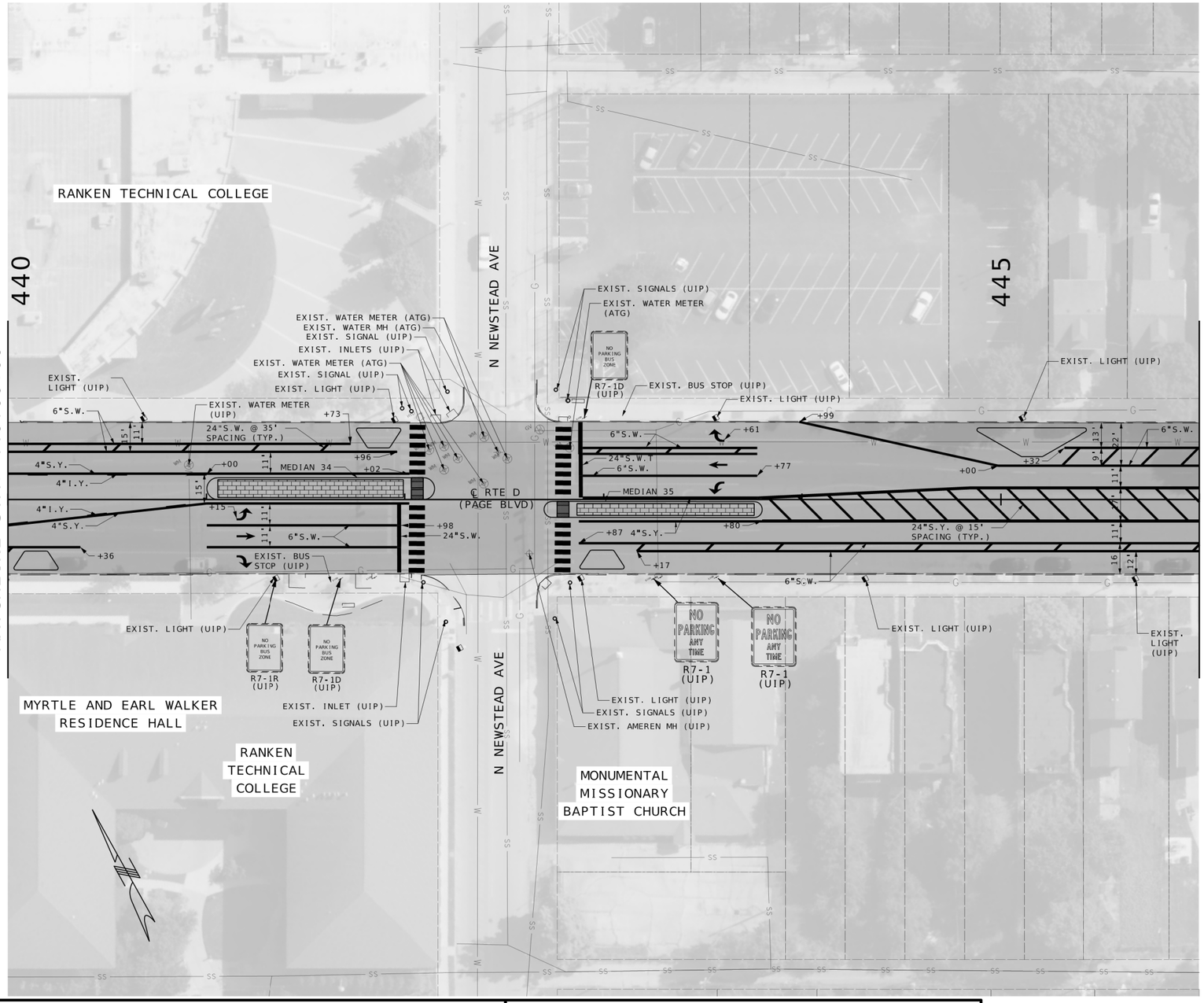

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 22 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	25

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

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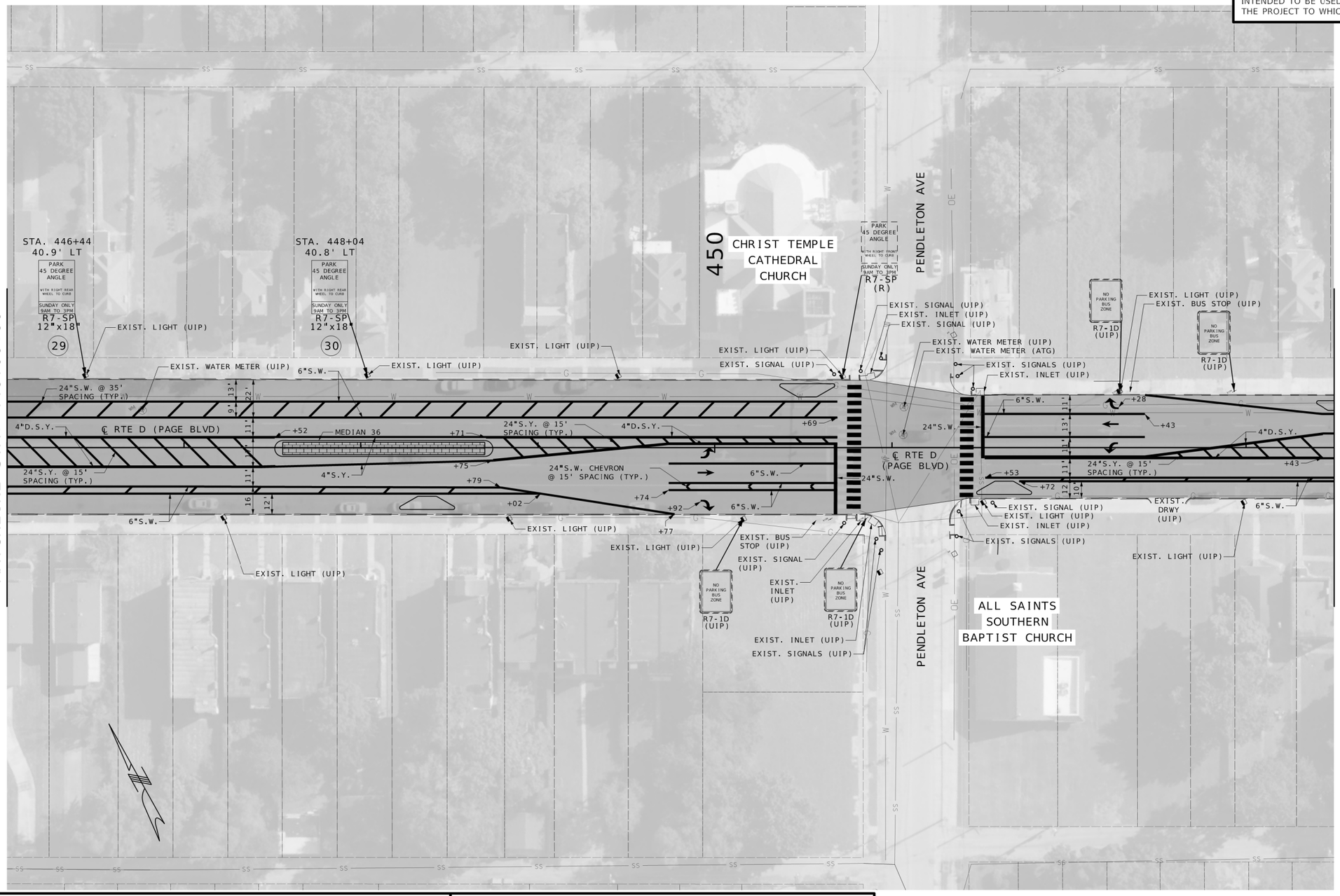

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 23 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	26

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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PROFESSIONAL ENGINEER
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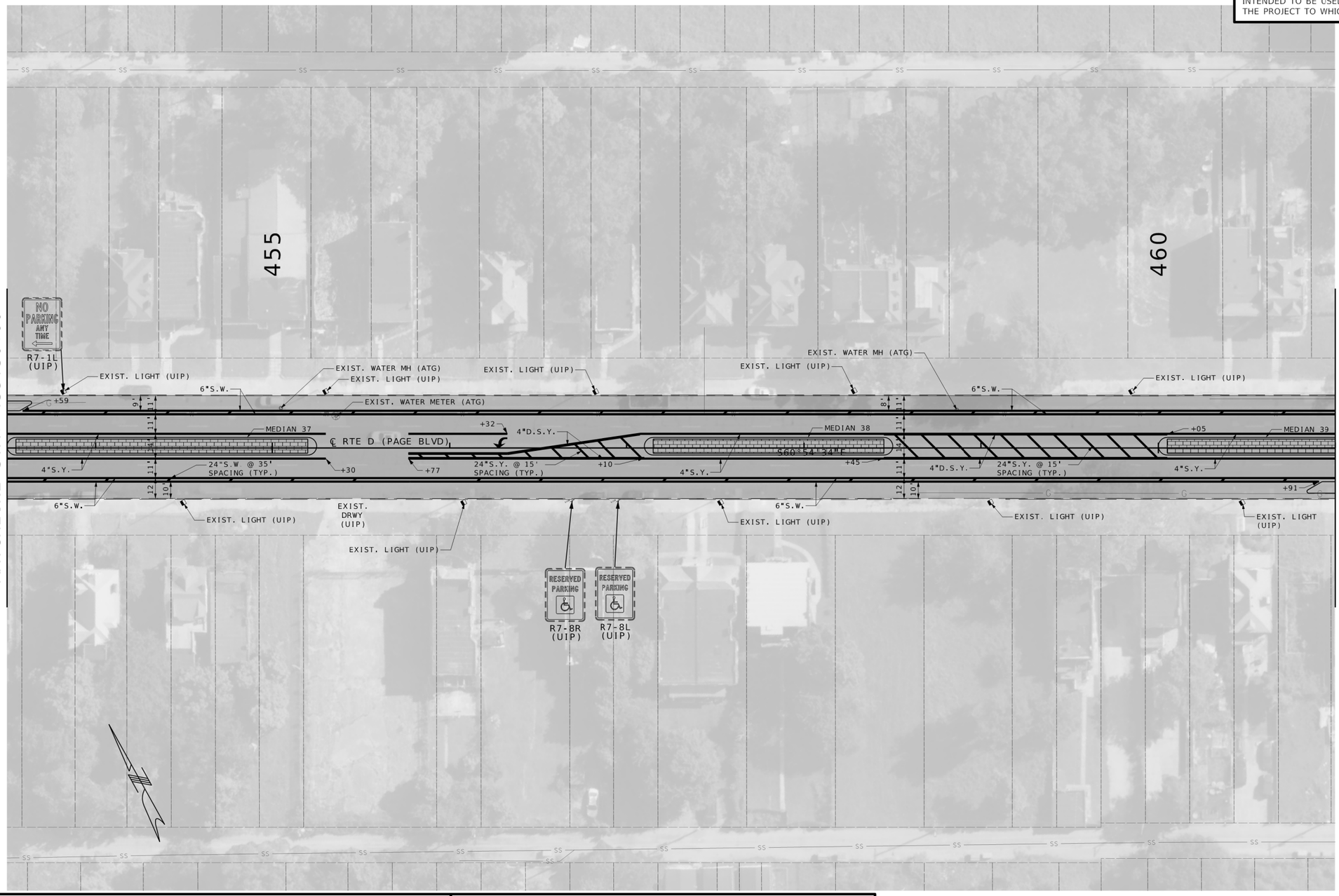

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE

0 30 60 90

PLAN SHEET
SHEET 24 OF 45

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	27

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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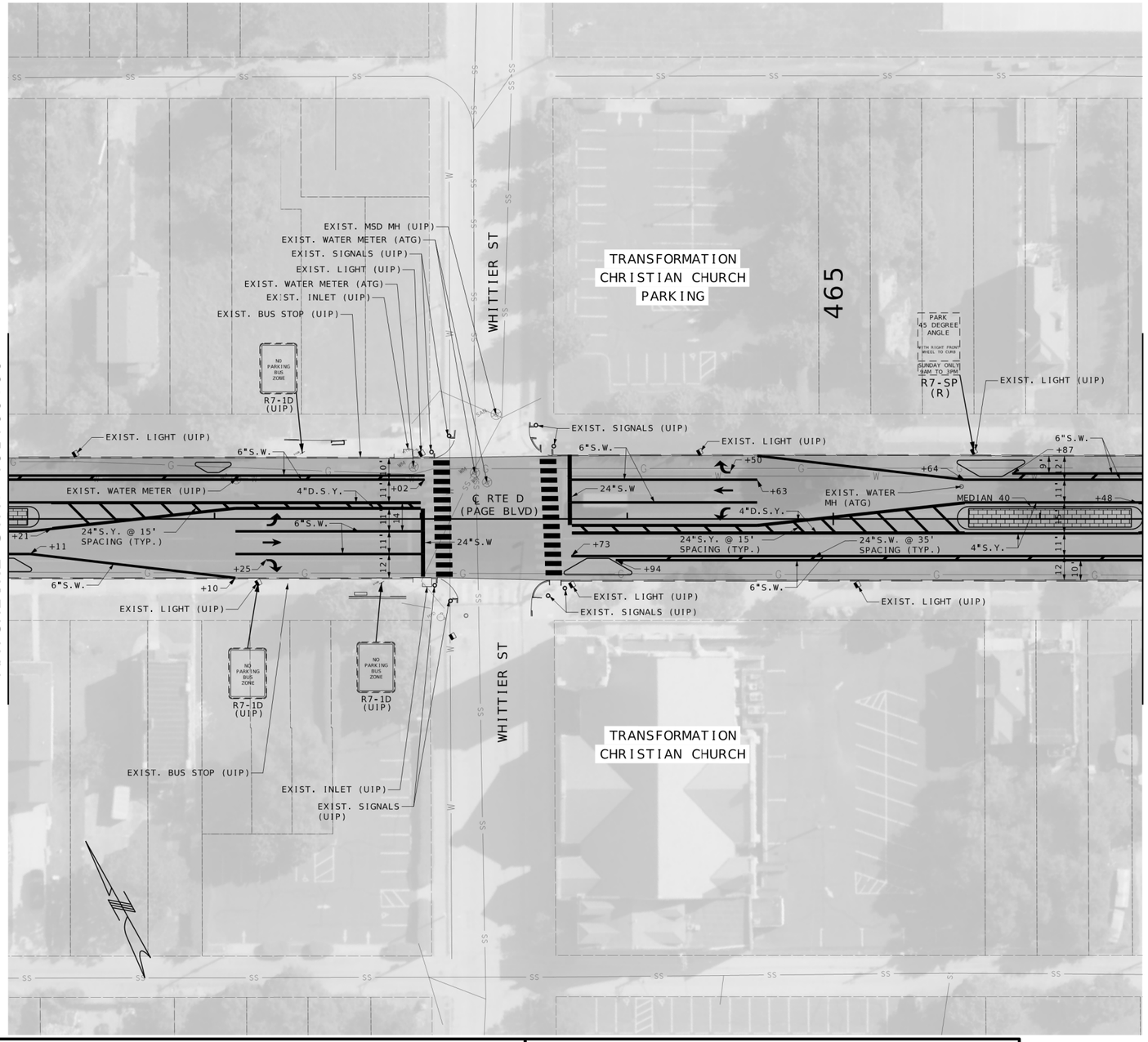

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NIKKI D. CONLEY
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THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

PAVEMENT LEGEND

PROPOSED MILL/OVERLAY	PROPERTY LINE
PROPOSED SIDEWALK/RAMP	REMOVAL
PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP	TRUNCATED DOMES

STRIPING LEGEND

INTERMITTENT WHITE (I.W.)	DOTTED WHITE (D.W.)
SOLID WHITE (S.W.)	DOUBLE SOLID YELLOW (D.S.Y.)
INTERMITTENT YELLOW (I.Y.)	
SOLID YELLOW (S.Y.)	

SCALE
0 30 60 90

PLAN SHEET
SHEET 25 OF 45

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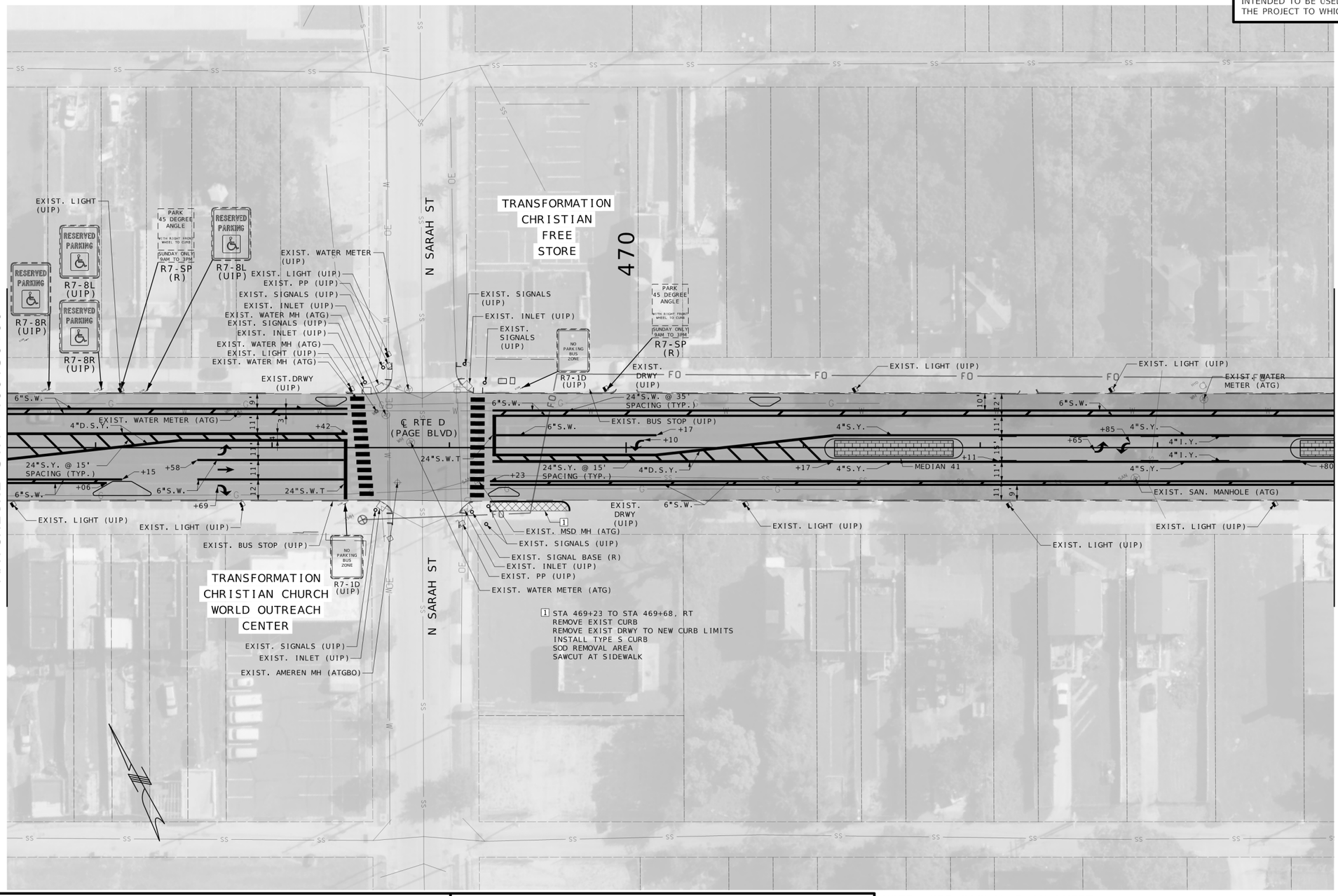

1 STA 469+23 TO STA 469+68, RT
REMOVE EXIST CURB
REMOVE EXIST DRWY TO NEW CURB LIMITS
INSTALL TYPE S CURB
SOD REMOVAL AREA
SAWCUT AT SIDEWALK

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
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NOTE: SEE SIGNAL PLAN SHEET 50 OF 99 FOR SOUTHEAST CORNER PEDESTRIAN SIGNAL RELOCATION.

SCALE
0 30 60 90

PLAN SHEET
SHEET 26 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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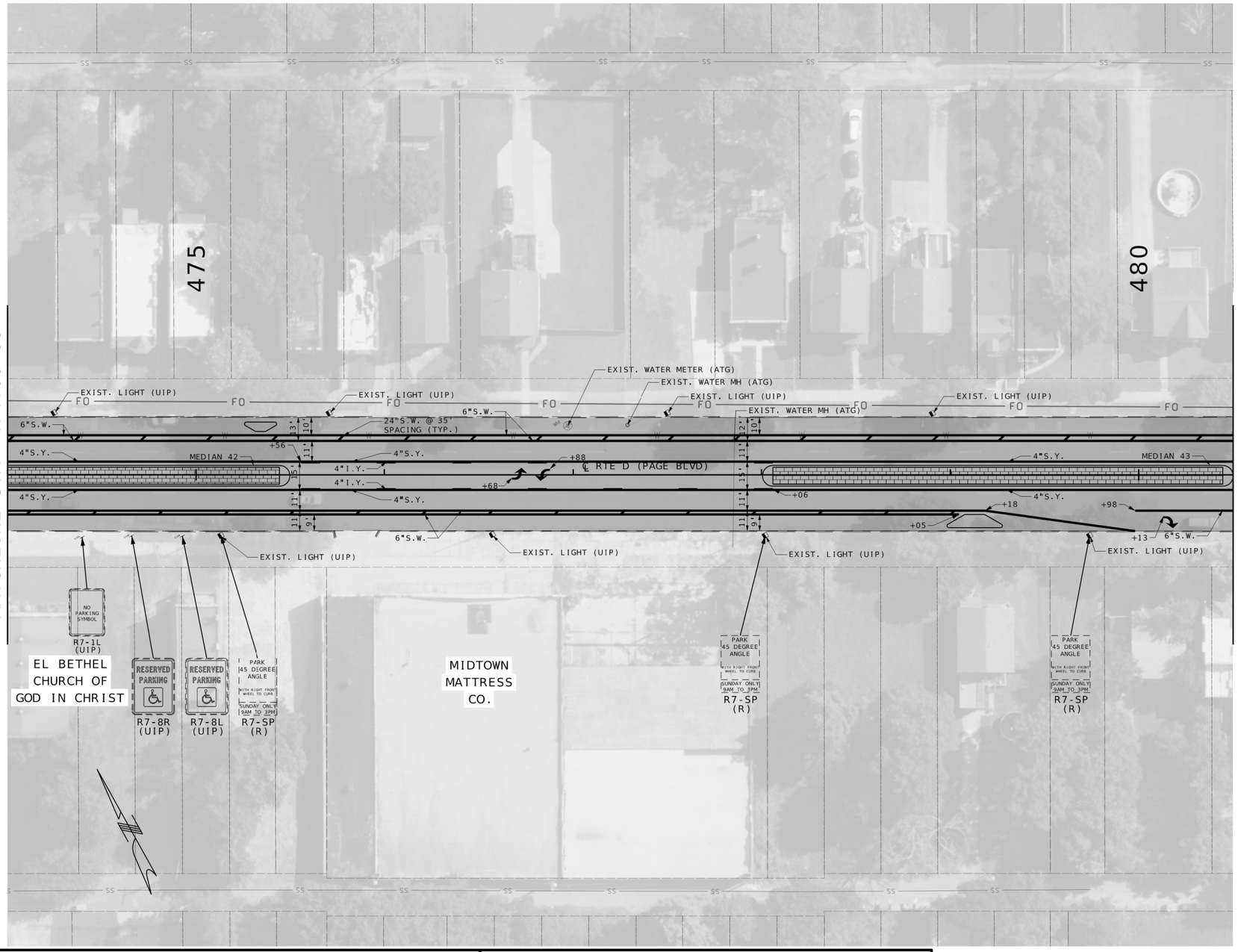

PAVEMENT LEGEND

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- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 27 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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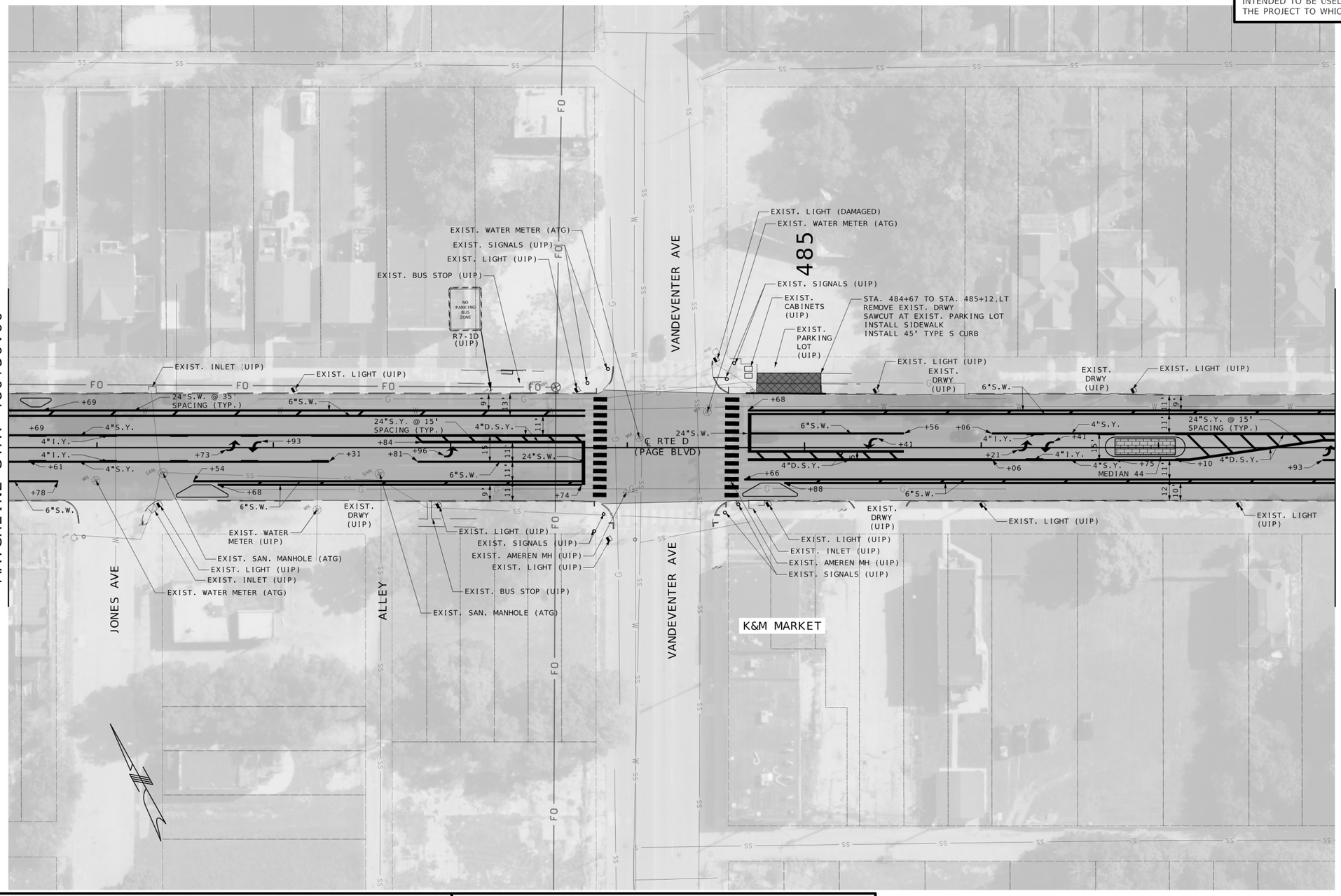

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 28 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	31

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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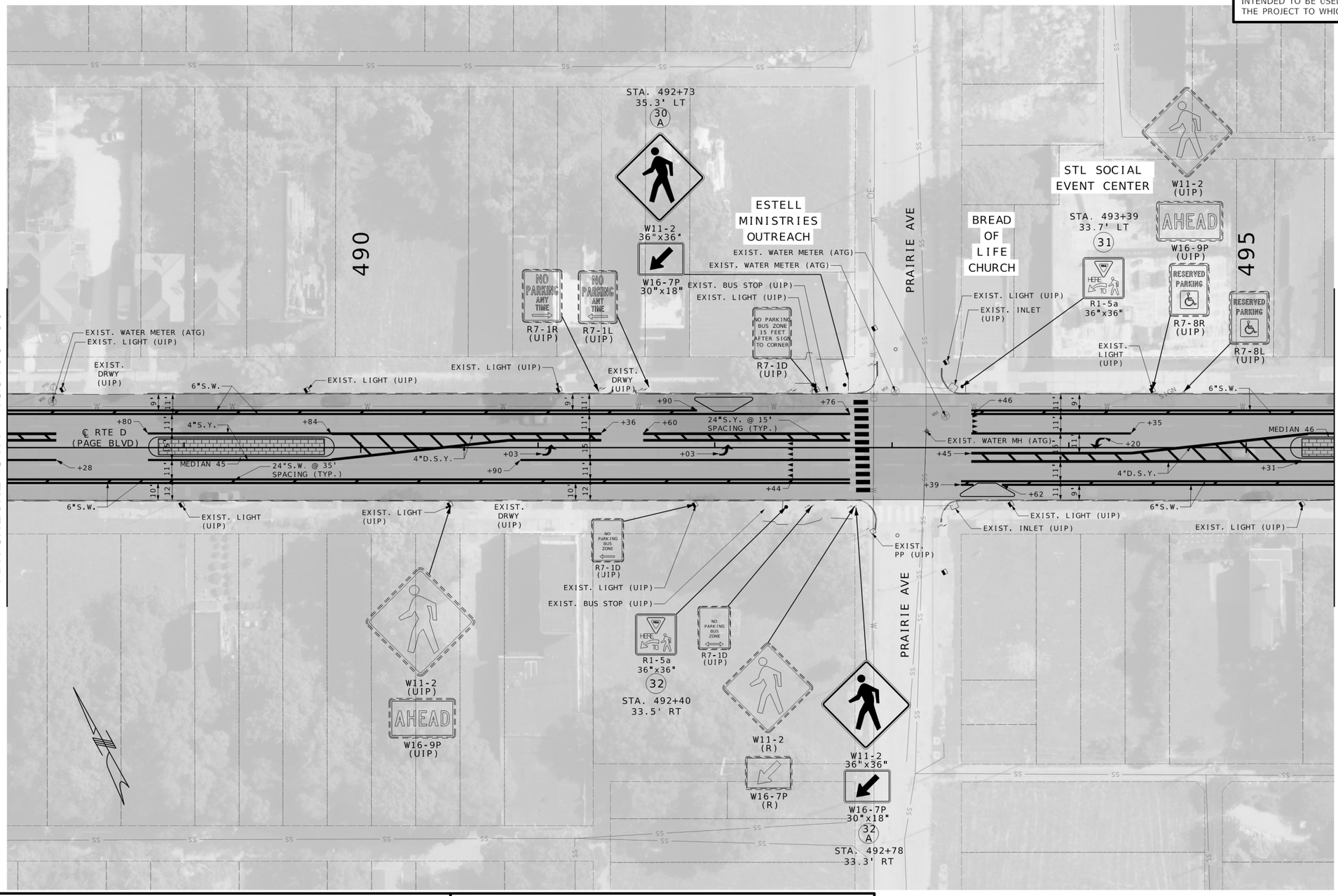

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SCALE
0 30 60 90

PLAN SHEET
SHEET 29 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
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D	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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NOTES:
1. AERIAL DOES NOT REFLECT IMPROVEMENTS BY OTHERS ON SPRING AVE.
2. SEE RRFB PLAN SHEET FOR RRFB SIGN DETAILS, SHEET 200
3. COORDINATE CROSSWALK PAVEMENT MARKING WITH CURB RAMPS PROJECT BY OTHERS ON SPRING AVE.

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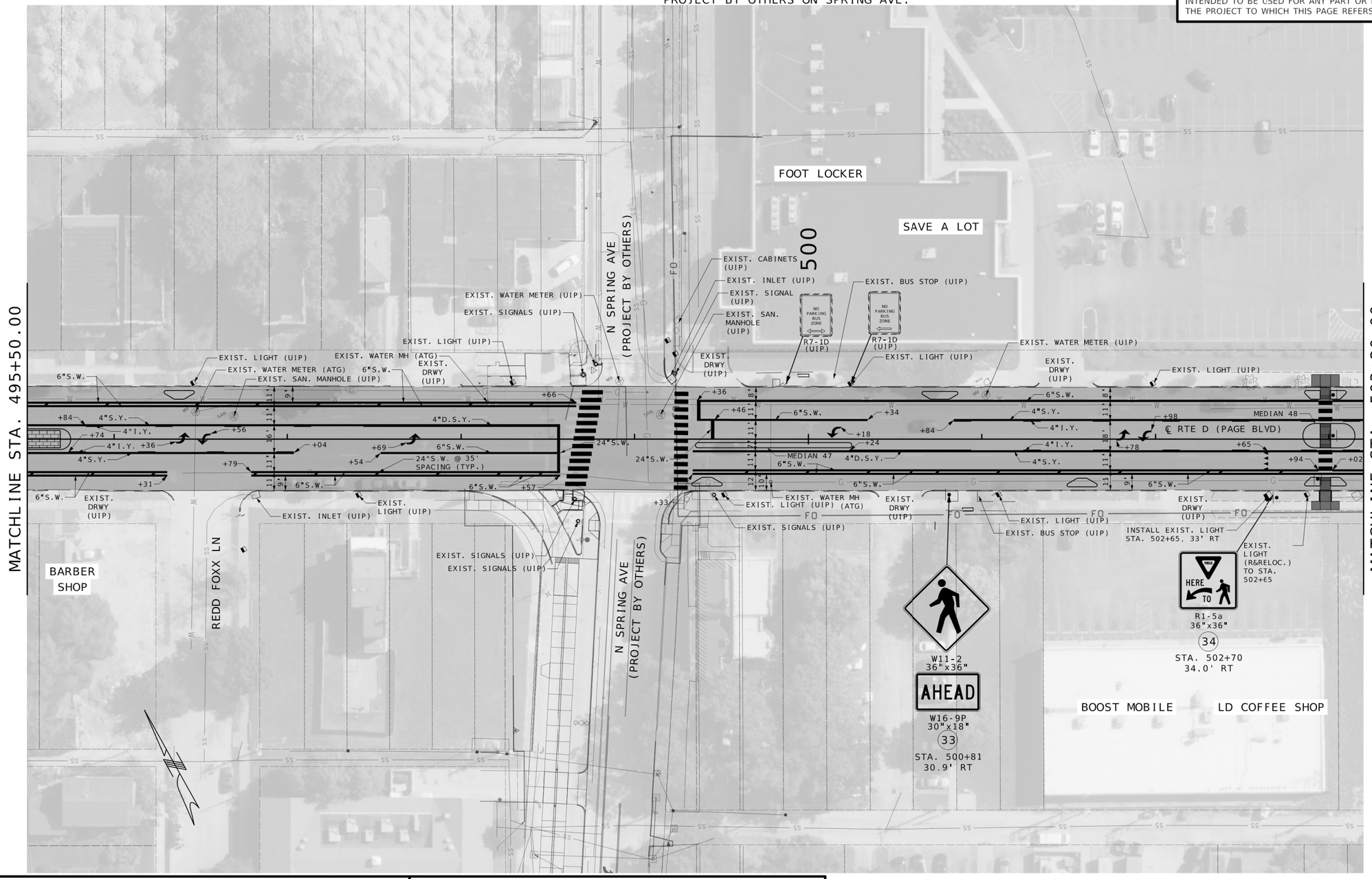

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- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 30 OF 45

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	33

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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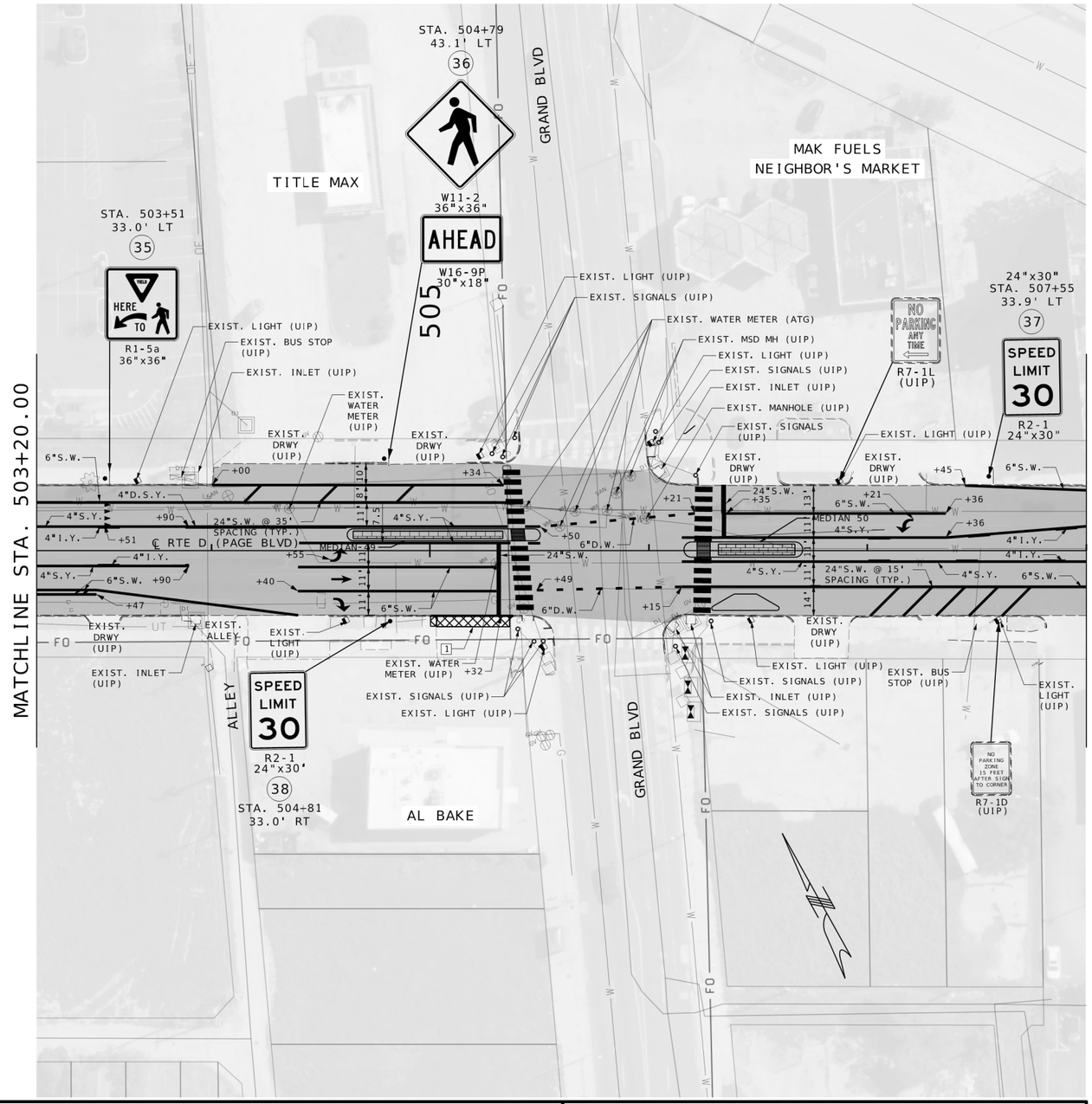

1 STA. 505+00 TO 505+38
INSTALL 38' TYPE S CURB
INSTALL SOD
REMOVE EXIST. DRWY
SAWCUT AT EXIST. SIDEWALK

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	34

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
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- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 31 OF 45

1 STA. 514+52 TO STA. 514+89 INSTALL 35' PCC VERTICAL CURB (12 IN WIDE) AND FULL DEPTH PAVEMENT REPAIR REMOVE EXIST. CURB

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	35

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DATE	DESCRIPTION	REV.

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

GBA
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PRO. ENGINEER 000133
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NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

PAVEMENT LEGEND
- PROPOSED MILL/OVERLAY
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- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
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- REMOVAL
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- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 32 OF 45

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NOTE: FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL. REMOVE CURBS TO JOINTS

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1 STA. 516+23 TO STA. 516+42 LT
INSTALL 21' PCC VERTICAL CURB (12 IN WIDE) AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB

2 STA. 516+42 TO STA. 516+66 LT
INSTALL 24' WIDE PAVED APPROACH, 8"
REMOVE EXIST. DRWY
SAWCUT AT EXIST. JOINT

3 STA. 516+66 TO STA. 516+89 LT
INSTALL 25' PCC VERTICAL CURB (12 IN WIDE) AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB

4 STA. 517+87 TO STA. 518+22 LT
INSTALL 35' PCC VERTICAL CURB (12 IN WIDE) AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB
SAWCUT AT EXIST. CURB RAMP (UIP)
REPLACE TRUNCATED DOMES ONLY

5 STA. 517+90 TO STA. 518+17 RT
INSTALL 30' PCC VERTICAL CURB (12 IN WIDE) AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB
SAWCUT AT EXIST. CURB RAMP (UIP)
REPLACE TRUNCATED DOMES ONLY

MATCHLINE STA. 515+50.00

MATCHLINE STA. 522+50.00

THOMAS ST

SENIOR LIVING AT RENAISSANCE

ST LOUIS FIRE ENGINE HOUSE NO 17

N COMPTON AVE

C RTE D (MLK DR)

PC STA 515+92.81

PT STA 516+22.13

PC STA 517+91.64

STA 518+17.60

S43°17'40"E

W11-1 (R)

SHARE THE ROAD

W16-1P (R)

STA. 516+35 29.2' LT

B

PAGE BLVD

DR. ML KING DR

SP-1 72"x48"

STA. 519+48 22.7' LT

42

STOP

R1-1 (R&RELOC)

4-WAY

R1-3P (R)

ALL-WAY

R1-3P 18"x06"

R1-3P (UIP)

STA. 518+14 23.8' RT

43

STA. 519+34 27.7' LT

STA. 519+55 21.1' RT

BIKE LANE

R3-17 24"x18"

44

SPEED LIMIT 30

R2-1 24"x30"

45

STA. 520+91 31.7' RT

EXIST. LIGHT (UIP)
EXIST. BUS STOP (UIP)
EXIST. INLET (UIP)
EXIST. DRWY (UIP)
EXIST. DRWY (R)
EXIST. WATER METER (UIP)
EXIST. MH (BURIED)(ATG)
EXIST. CURB(UIP)
EXIST. LIGHT(UIP)
EXIST. CURB(UIP)
EXIST. SAN. MANHOLE (ATG)

6"S.W.
6"I.W.
6"D.W.
4"D.S.Y.
24"S.W.

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
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- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 33 OF 45

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	36

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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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GBA
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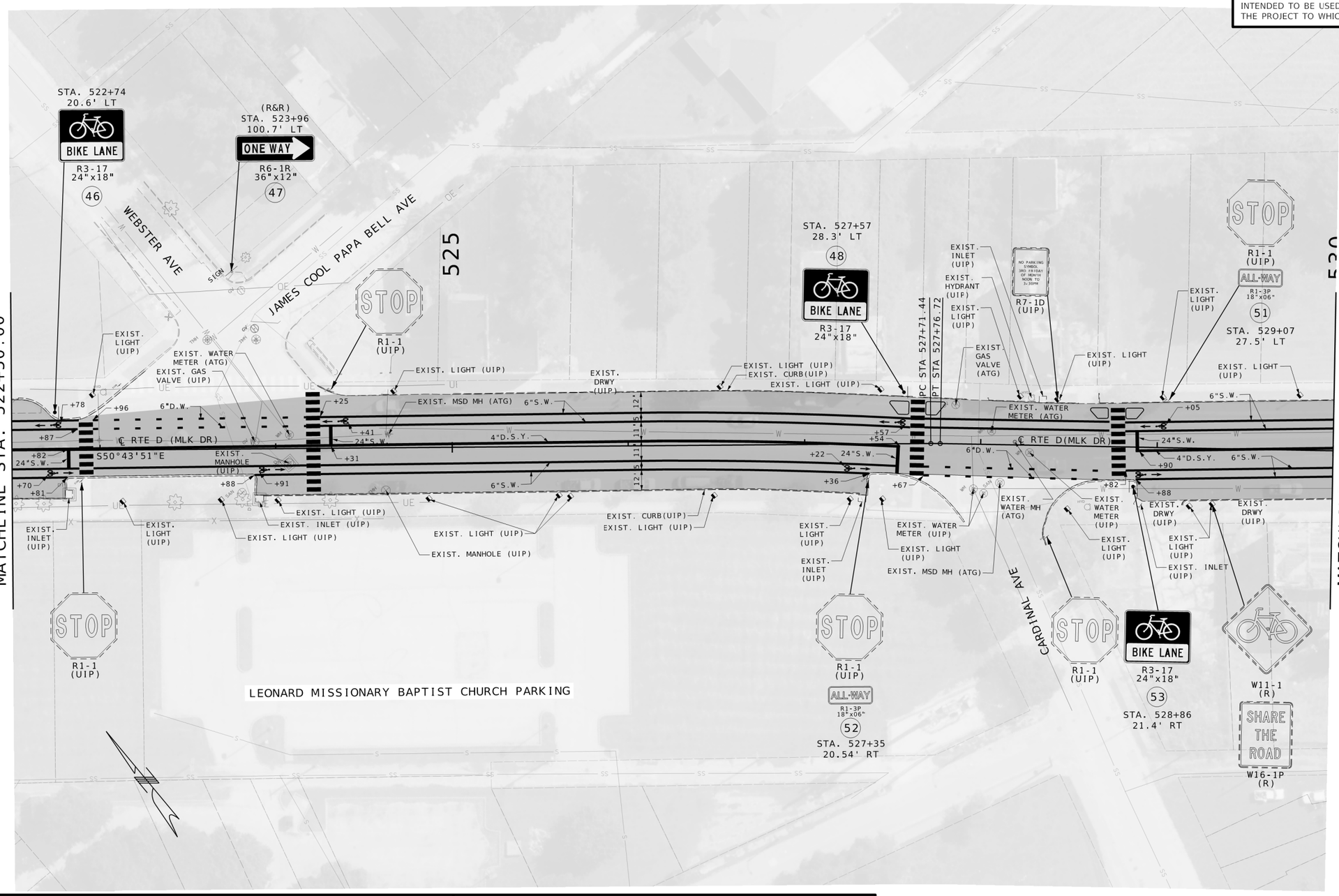

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PLAN SHEET
SHEET 34 OF 45

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D	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
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1 STA. 533+65 TO STA. 533+98 LT INSTALL 33' PCC VERTICAL CURB (12 IN WIDE) AND FULL DEPTH PAVEMENT REPAIR REMOVE EXIST. CURB

MATCHLINE STA. 530+00.00

MATCHLINE STA. 537+50.00

GAMBLE ST

N GARRISON AVE

N GARRISON AVE

STA 533+61.92 PC

STA 533+71.47 PT

535

S49°13'07"E

℄ RTE D(MLK DR)

STOP R1-1 (UIP)

ALL-WAY R1-3P (UIP)

NO PARKING LAST THURSDAY OF MONTH 8AM TO NOON R7-1D (UIP)

NO PARKING 7AM TO 9AM EXCEPT SATURDAY & SUNDAY R7-1D (UIP)

NO PARKING SYMBOL R7-1L (R)

BIKE LANE R3-17 24"x18"

54

STA. 534+39 21.0' RT

EXIST. WATER METER (UIP)

EXIST. WATER METER (ATG)

EXIST. LIGHT (UIP)

EXIST. CURB(UIP)

EXIST. SAN. MANHOLE (ATG)

EXIST. MANHOLE (UIP)

EXIST. PP (UIP)

6"S.W.

4"D.S.Y.

24"S.W.

6"D.W.

UE

SS

W

OE

PAVEMENT LEGEND

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SCALE
0 30 60 90

PLAN SHEET
SHEET 35 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
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D	MO
DISTRICT	SHEET NO.
SL	38

COUNTY ST. LOUIS

JOB NO. J6S3438

CONTRACT ID.

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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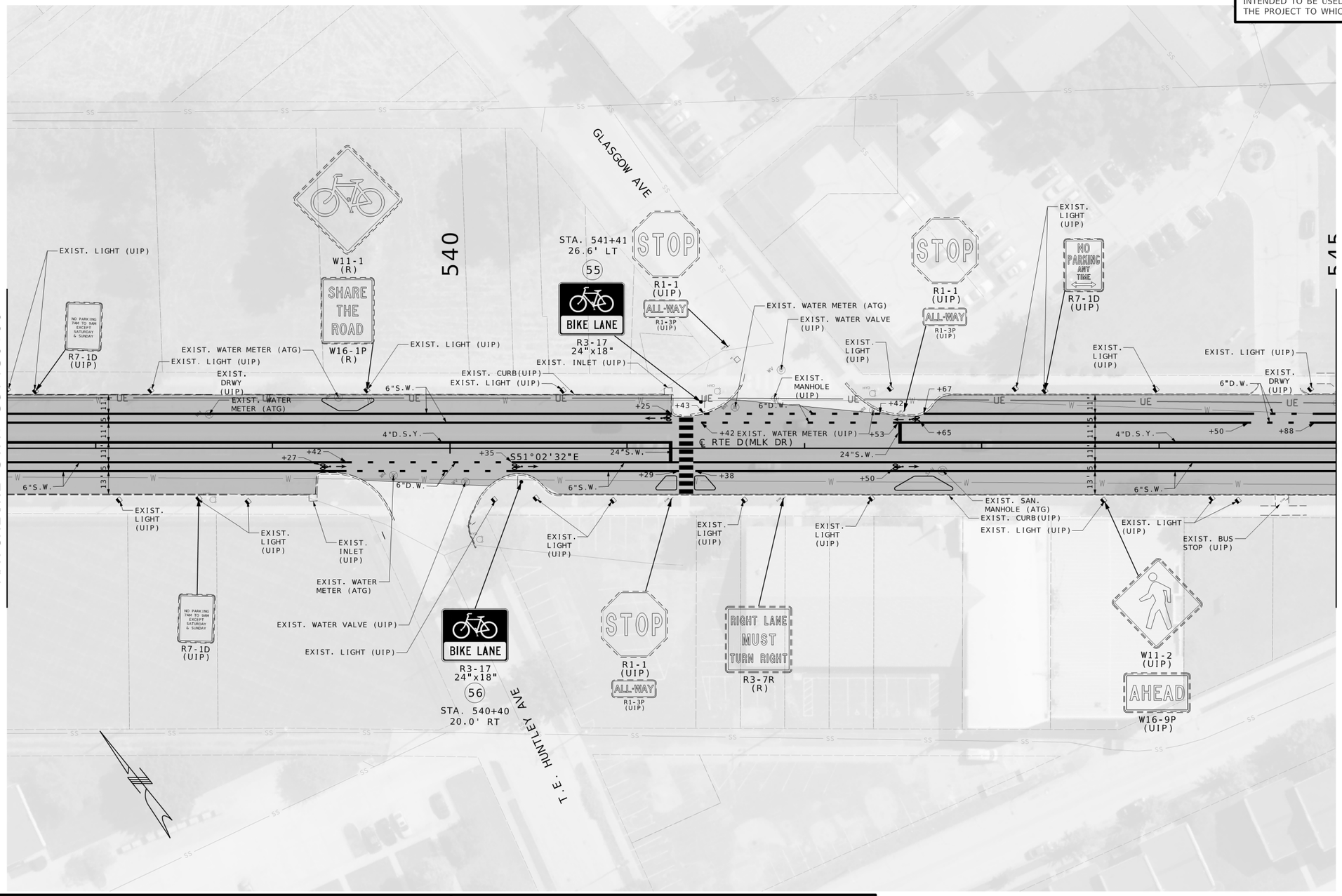

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 36 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	39

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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

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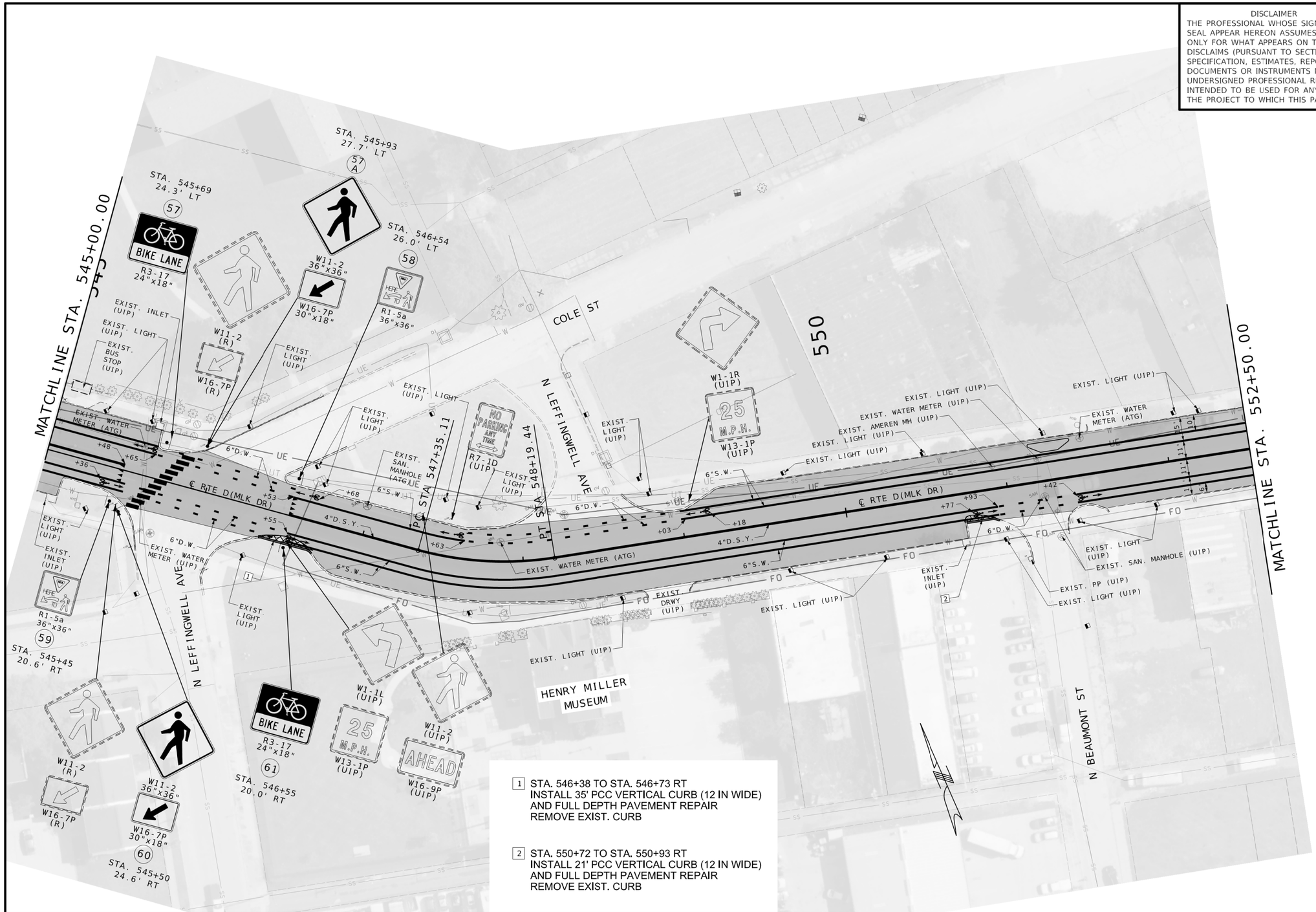

1 STA. 546+38 TO STA. 546+73 RT
INSTALL 35' PCC VERTICAL CURB (12 IN WIDE)
AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB

2 STA. 550+72 TO STA. 550+93 RT
INSTALL 21' PCC VERTICAL CURB (12 IN WIDE)
AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
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- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
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- REMOVAL
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STRIPING LEGEND

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- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 37 OF 45

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	40

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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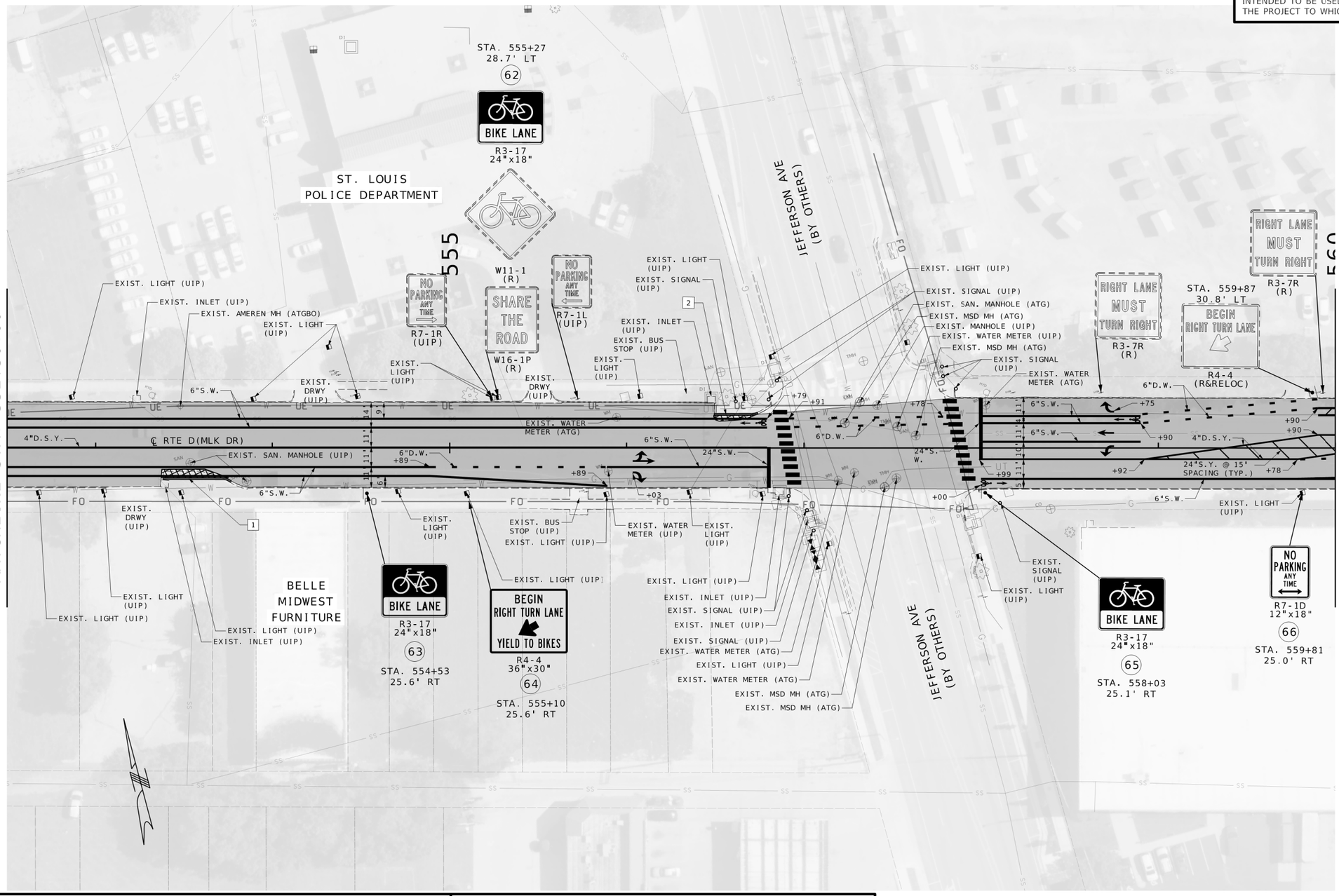
1 STA. 553+38 TO STA. 553+77 RT
INSTALL 39' PCC VERTICAL CURB (12 IN WIDE)
AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB

2 STA. 556+49 TO STA. 556+74 LT INSTALL
25' PCC VERTICAL CURB (12 IN WIDE)
AND FULL DEPTH PAVEMENT REPAIR
REMOVE EXIST. CURB

NOTE:
AERIAL DOES NOT REFLECT IMPROVEMENTS
BY OTHERS ON JEFFERSON AVE.



PAVEMENT LEGEND

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- PROPOSED SIDEWALK/RAMP
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- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 38 OF 45

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NIKKI D. CONLEY
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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	41

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
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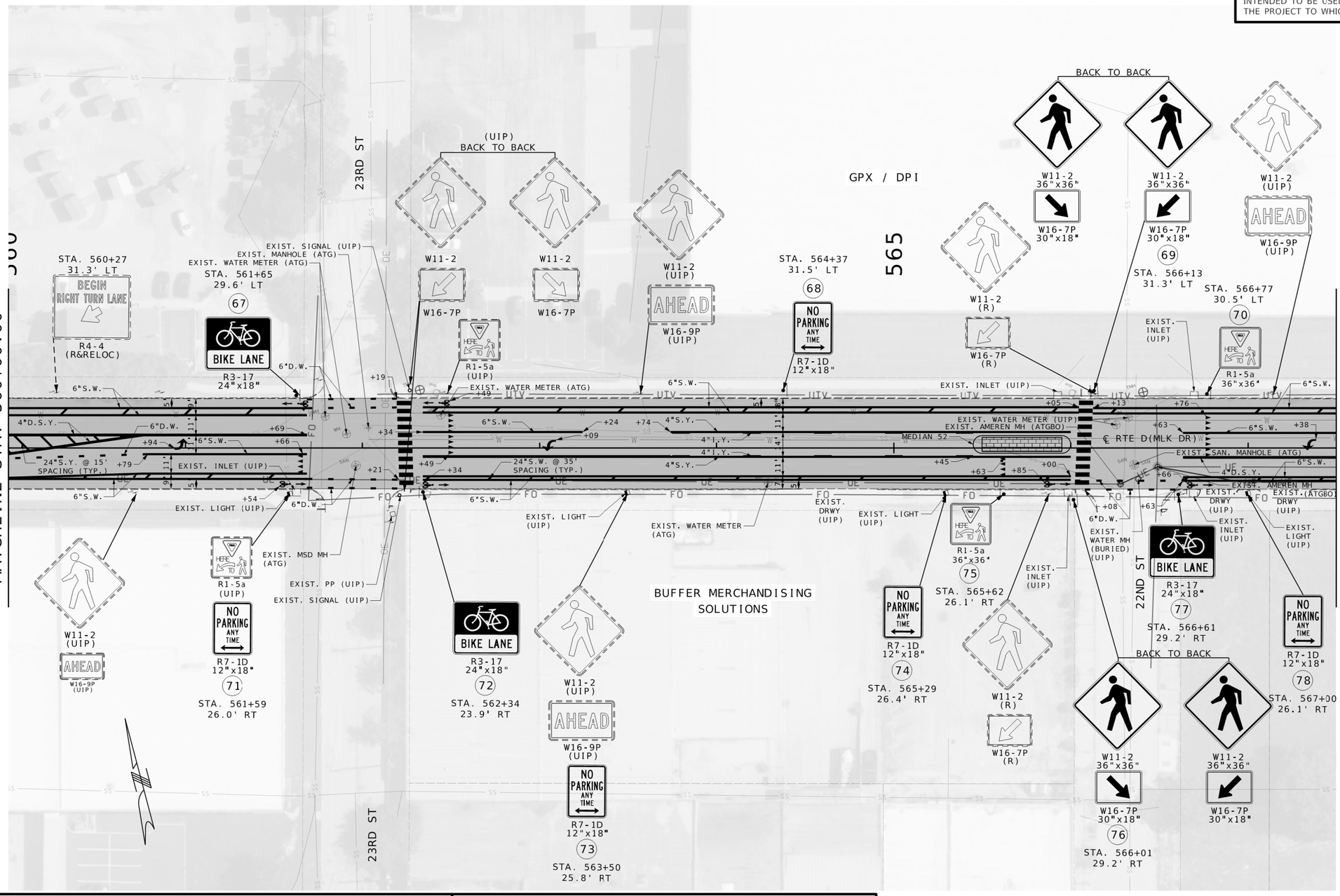
NOTE: RRFB IMPROVEMENTS AT 23RD STREET BY OTHERS



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SCALE
0 30 60 90

PLAN SHEET
SHEET 39 OF 45

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DATE PREPARED: 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	42

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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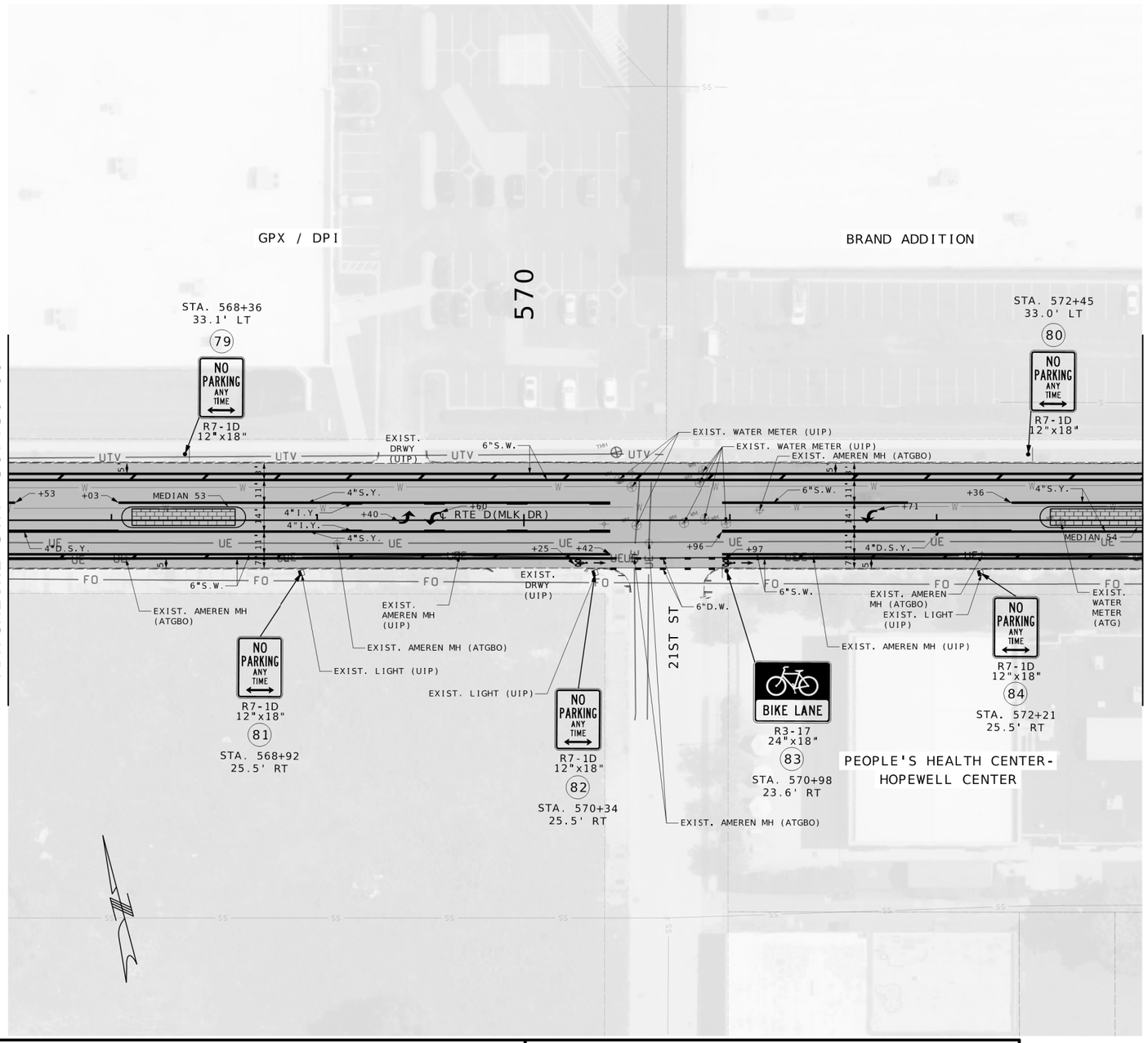
PROFESSIONAL ENGINEER
PE-2018040668

REV.



PAVEMENT LEGEND

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SCALE

0 30 60 90

PLAN SHEET
SHEET 40 OF 45

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	43

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
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ENGINEER
PE-2018040668

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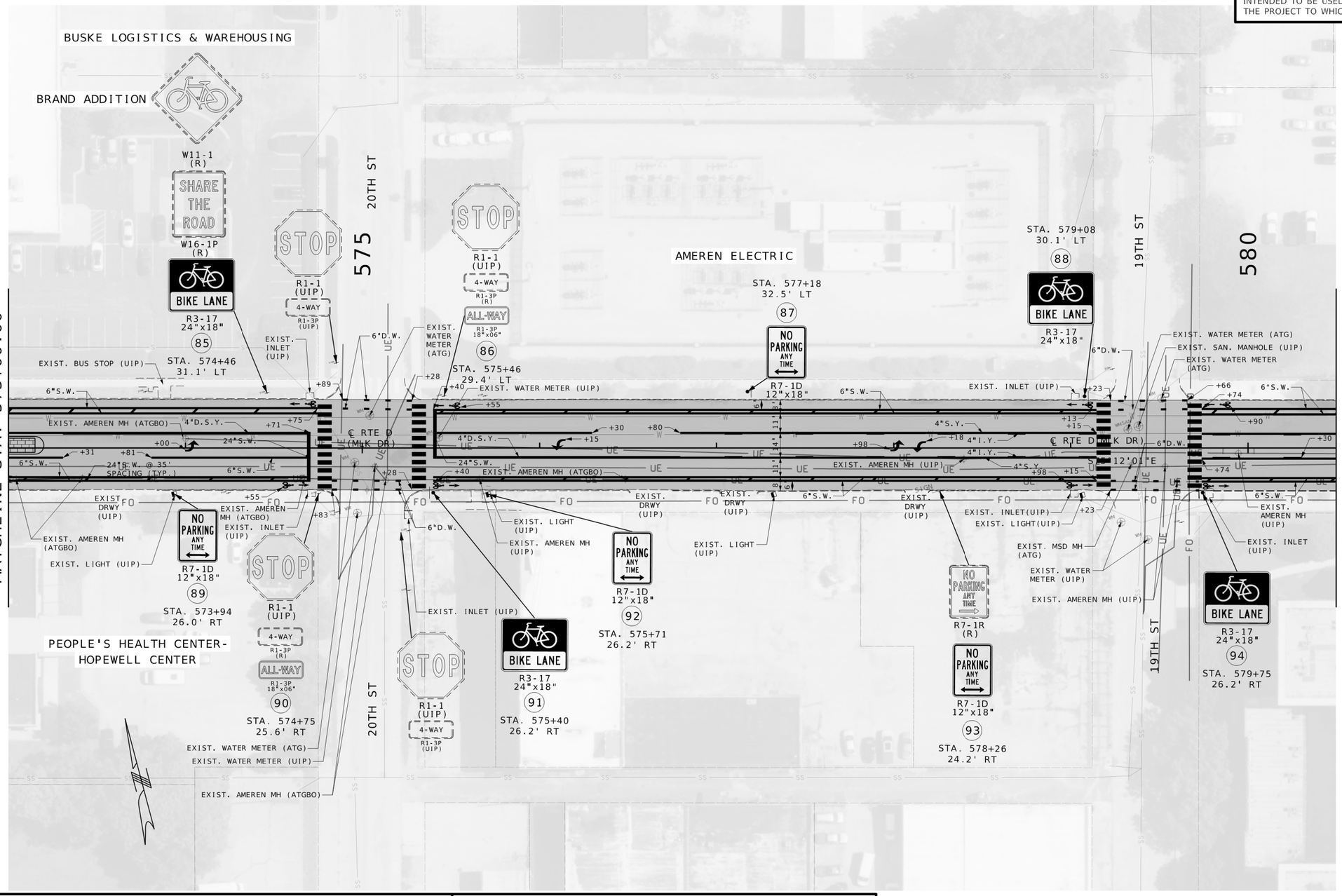

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	44

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

PAVEMENT LEGEND

- PROPOSED MILL/OVERLAY
- PROPOSED SIDEWALK/RAMP
- PROPOSED STAMPED & STAINED CONCRETE MEDIAN STRIP
- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
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- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 41 OF 45

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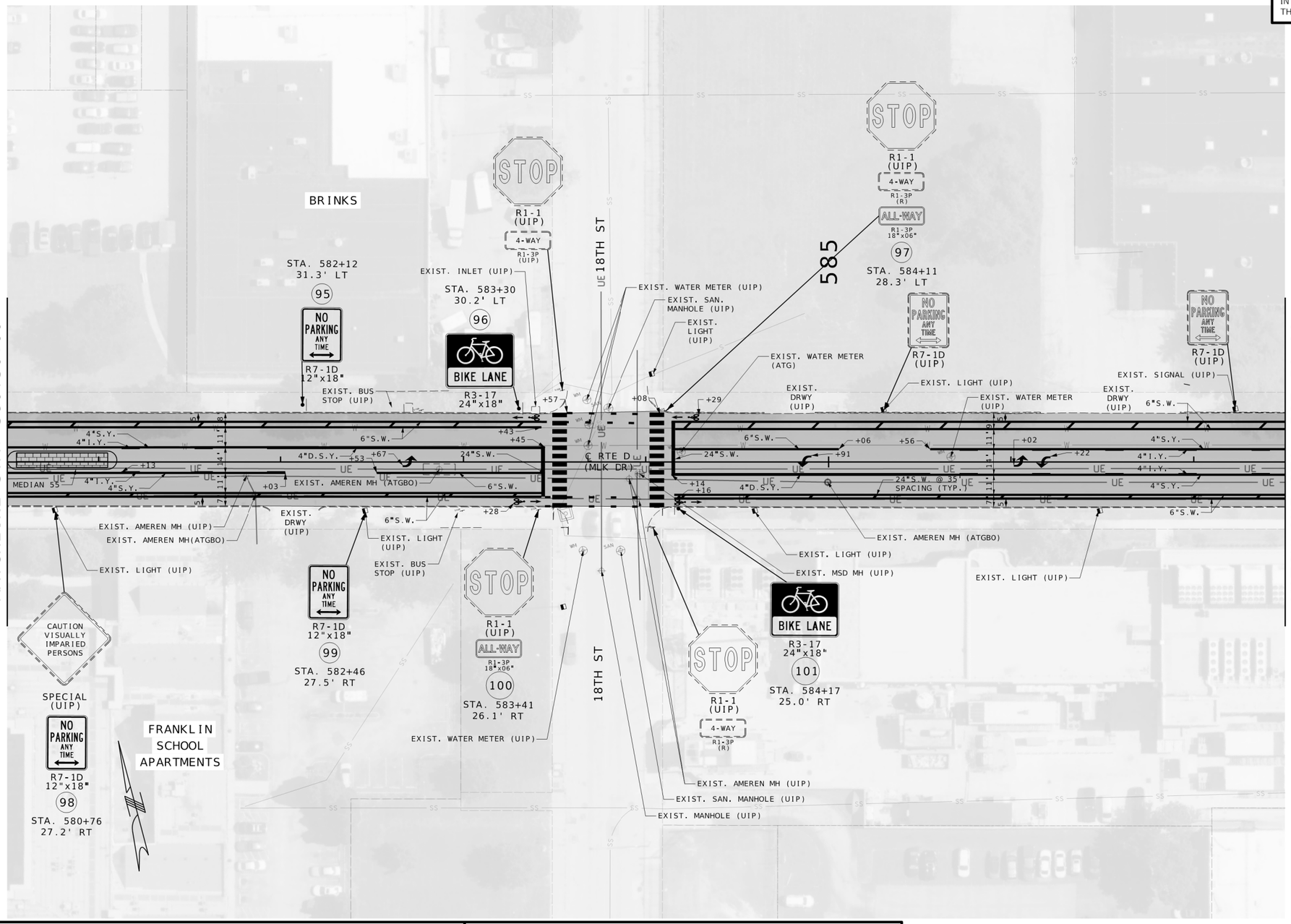

PAVEMENT LEGEND

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SCALE
0 30 60 90

PLAN SHEET
SHEET 42 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	45

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

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)

GBA
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PROFESSIONAL ENGINEER
PE-2018040668

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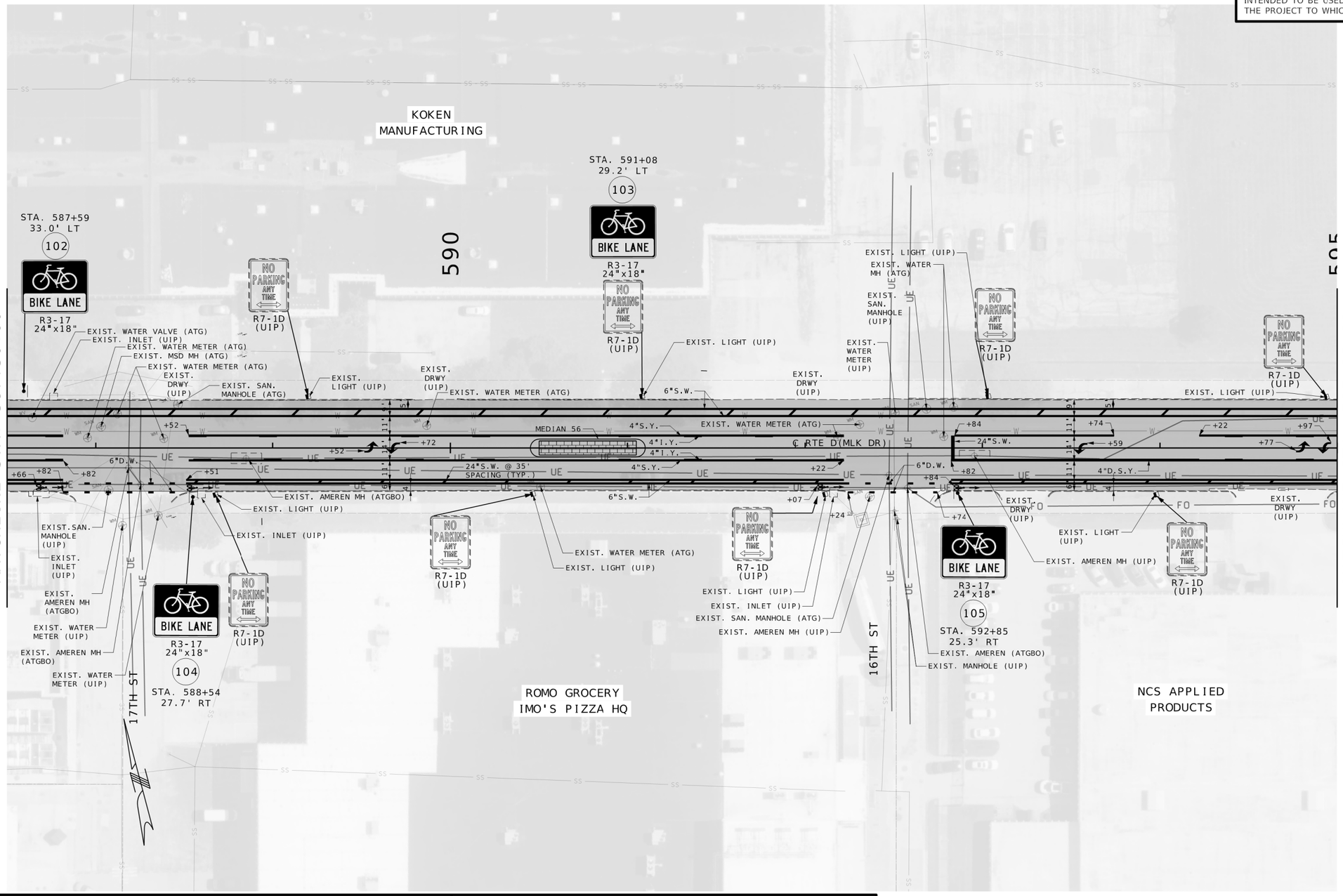

PAVEMENT LEGEND

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SCALE
0 30 60 90

PLAN SHEET
SHEET 43 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
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THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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JEFFERSON CITY, MO 65102
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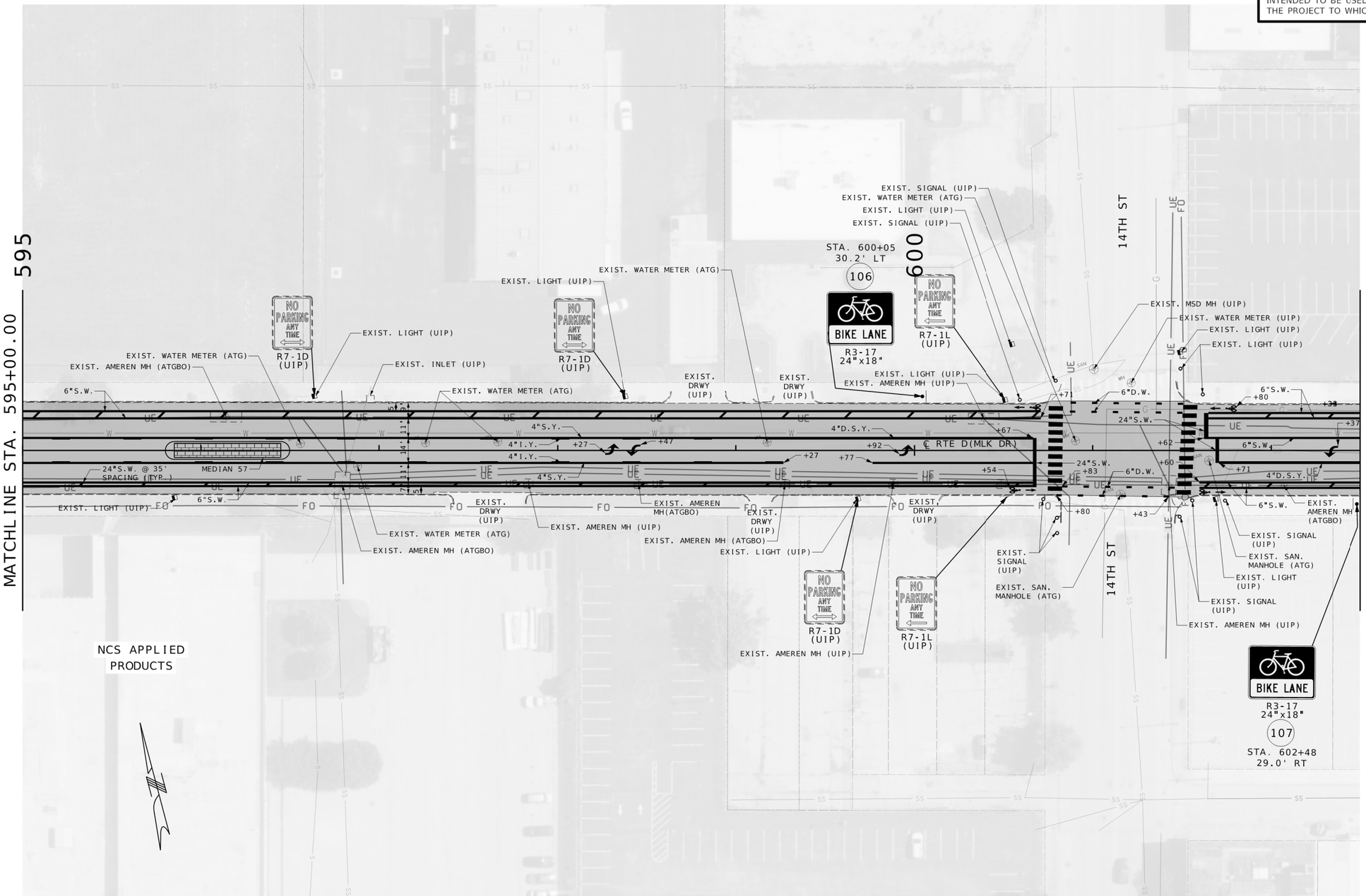

PAVEMENT LEGEND

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SCALE
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PLAN SHEET
SHEET 44 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
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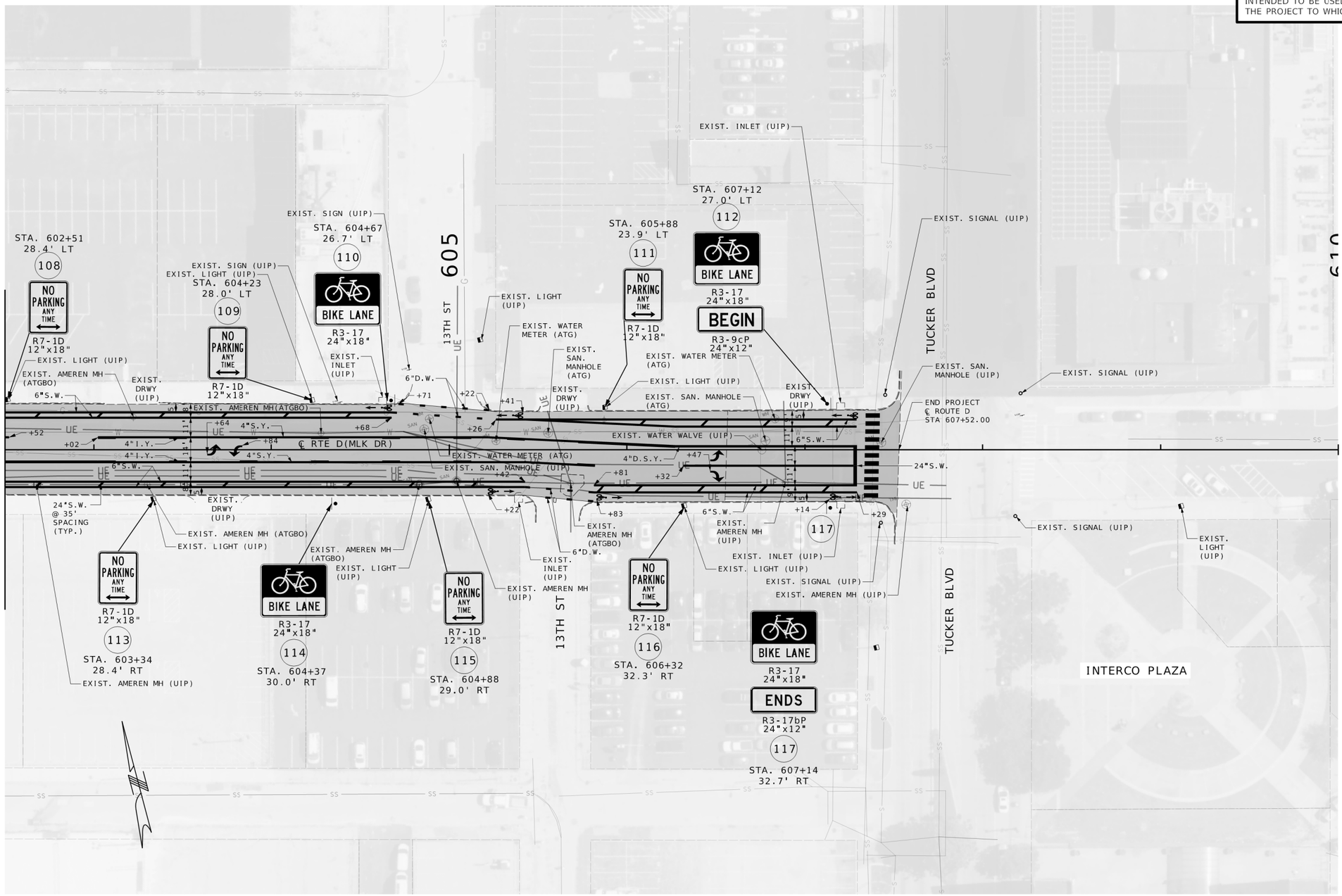

PAVEMENT LEGEND

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- PROPERTY LINE
- REMOVAL
- TRUNCATED DOMES

STRIPING LEGEND

- INTERMITTENT WHITE (I.W.)
- SOLID WHITE (S.W.)
- INTERMITTENT YELLOW (I.Y.)
- SOLID YELLOW (S.Y.)
- DOTTED WHITE (D.W.)
- DOUBLE SOLID YELLOW (D.S.Y.)

SCALE
0 30 60 90

PLAN SHEET
SHEET 45 OF 45

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	48

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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

c:\bms\gba-pw-01\amber peterein\dms23372\034-048_PL31-45_J6S3438_i30.dgn 10:15:59 AM 1/30/2026

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	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD 83
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MODOT STATE PLANE
CONTROL STATION	
DESIGNATION	MODOT BELLEFONT CORS ARP
CORS_ID	MOBL
PID	DM3511
LATITUDE	38° 45' 53.88149"
LONGITUDE	90° 14' 43.15784"
NORTHING (M)	325,371.567
EASTING (M)	272,133.214
ZONE	2401 (MO-EAST)
PROJECT AVERAGE GRID FACTOR	0.99993936

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 #___
N _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION
PROJECT CONTROL POINTS							
45	608+18.82	℄ RTE. D	31.75 RT	1,019,987.01	907,216.30	473.30	CP#1
44	597+25.72	℄ RTE. D	35.90 RT	1,020,262.22	906,158.41	485.29	CP#2
43	588+48.61	℄ RTE. D	32.30 RT	1,020,489.74	905,311.33	490.23	CP#3
41	579+79.02	℄ RTE. D	29.57 LT	1,020,771.68	904,486.39	493.99	CP#4
40	570+35.71	℄ RTE. D	31.33 RT	1,020,953.77	903,558.80	507.25	CP#5
39	561+72.64	℄ RTE. D	29.04 RT	1,021,176.45	902,724.95	505.60	CP#6
37	552+67.42	℄ RTE. D	32.75 RT	1,021,404.09	901,848.81	519.81	CP#7
36	544+67.69	℄ RTE. D	32.55 RT	1,021,730.86	901,120.98	533.64	CP#8
35	535+35.00	℄ RTE. D	37.00 RT	1,022,313.82	900,392.91	550.80	CP#9
34	527+66.51	℄ RTE. D	35.95 LT	1,022,868.12	899,853.46	553.53	CP#10
33	519+44.25	℄ RTE. D	23.28 RT	1,023,342.73	899,179.40	551.82	CP#11
32	510+12.48	℄ RTE. D	42.88 LT	1,024,049.82	898,567.39	541.38	CP#12
30	501+54.39	℄ RTE. D	37.24 RT	1,024,397.00	897,778.59	526.75	CP#13
29	493+44.30	℄ RTE. D	33.49 LT	1,024,852.67	897,105.09	513.79	CP#14
28	483+59.27	℄ RTE. D	43.25 RT	1,025,264.52	896,207.00	502.44	CP#15
27	474+27.40	℄ RTE. D	42.09 RT	1,025,718.60	895,393.25	495.66	CP#16
25	465+34.63	℄ RTE. D	37.45 LT	1,026,222.06	894,651.83	494.90	CP#17
24	458+00.89	℄ RTE. D	31.50 RT	1,026,518.60	893,977.06	502.29	CP#18
23	449+30.52	℄ RTE. D	49.08 LT	1,027,012.22	893,255.69	505.29	CP#19
22	440+56.13	℄ RTE. D	42.77 RT	1,027,356.98	892,446.99	509.01	CP#20
20	431+65.10	℄ RTE. D	36.27 LT	1,027,859.26	891,706.79	514.57	CP#21
19	423+17.19	℄ RTE. D	31.82 RT	1,028,212.01	890,932.73	509.15	CP#22
17	415+59.36	℄ RTE. D	43.52 LT	1,028,646.30	890,307.13	500.69	CP#23
16	403+76.51	℄ RTE. D	43.00 LT	1,029,217.78	889,258.59	511.73	CP#24
15	394+40.23	℄ RTE. D	43.29 LT	1,029,332.02	888,324.86	523.07	CP#25
13	386+20.53	℄ RTE. D	46.73 RT	1,029,345.04	887,500.50	527.75	CP#26
11	376+75.75	℄ RTE. D	33.36 LT	1,029,543.65	886,573.36	522.24	CP#27
10	367+60.34	℄ RTE. D	38.53 RT	1,029,587.72	885,656.66	512.98	CP#28
9	358+48.81	℄ RTE. D	37.26 RT	1,029,978.00	884,835.66	528.23	CP#29
8	350+03.92	℄ RTE. D	40.45 LT	1,030,519.15	884,182.18	553.00	CP#30
6	342+17.74	℄ RTE. D	35.95 LT	1,030,959.30	883,530.75	544.74	CP#31
5	334+10.37	℄ RTE. D	34.17 RT	1,031,357.36	882,824.78	525.54	CP#32
4	325+50.94	℄ RTE. D	36.38 LT	1,031,900.79	882,155.21	527.85	CP#33
3	314+80.26	℄ RTE. D	35.47 RT	1,032,389.44	881,313.52	564.80	CP#34
1	306+87.45	℄ RTE. D	35.46 LT	1,032,952.05	880,616.66	518.76	CP#35

COORDINATE POINT SHEET
ROUTE D
SHEET 1 OF 2

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 49
COUNTY ST. LOUIS
JOB NO. J6S3438
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)

GBA
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

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

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION
ALIGNMENTS							
4	300+00.00	℄ RTE. D		1,033,311.01	880,029.20		POT
13	364+10.77	℄ RTE. D		1,029,691.58	885,320.48		PC
13	364+59.03	℄ RTE. D		1,029,664.33	885,360.31		PI
13	365+05.47	℄ RTE. D		1,029,658.25	885,408.18		PT
17	392+77.06	℄ RTE. D		1,029,308.71	888,157.64		PC
17	392+78.65	℄ RTE. D		1,029,308.51	888,159.21		PI
17	392+80.23	℄ RTE. D		1,029,308.32	888,160.79		PT
19	403+56.30	℄ RTE. D		1,029,179.38	889,229.10		PC
19	403+95.56	℄ RTE. D		1,029,174.68	889,268.07		PI
19	404+33.82	℄ RTE. D		1,029,115.59	889,302.38		PT
35	511+74.85	℄ RTE. D		1,023,933.39	898,688.45		PC
35	512+21.06	℄ RTE. D		1,023,910.93	898,728.82		PI
35	512+65.66	℄ RTE. D		1,023,873.04	898,755.25		PT
36	515+92.81	℄ RTE. D		1,023,604.71	898,942.40		PC
36	516+07.49	℄ RTE. D		1,023,592.67	898,950.80		PI
36	516+22.13	℄ RTE. D		1,022,581.98	898,960.88		PT
36	517+91.64	℄ RTE. D		1,023,458.60	899,077.12		PC
36	518+04.64	℄ RTE. D		1,023,449.14	899,086.03		PI
36	518+17.60	℄ RTE. D		1,023,440.91	899,096.09		PT
37	527+71.44	℄ RTE. D		1,022,837.16	899,834.54		PC
37	527+74.08	℄ RTE. D		1,022,835.49	899,836.59		PI
37	527+76.72	℄ RTE. D		1,022,833.77	899,838.58		PT
38	533+61.92	℄ RTE. D		1,022,451.53	900,281.70		PC
38	533+66.70	℄ RTE. D		1,022,448.41	900,285.32		PI
38	533+71.47	℄ RTE. D		1,022,445.41	900,289.03		PT
40	547+35.11	℄ RTE. D		1,021,588.03	901,349.41		PC
40	547+77.91	℄ RTE. D		1,021,561.12	901,382.69		PI
40	548+19.44	℄ RTE. D		1,021,550.18	901,424.07		PT
48	610+37.96	℄ RTE. D		1,019,961.72	907,436.29		POT

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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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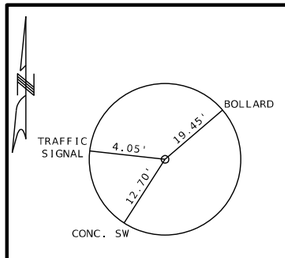
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

COORDINATE POINT SHEET
ROUTE D
SHEET 2 OF 2



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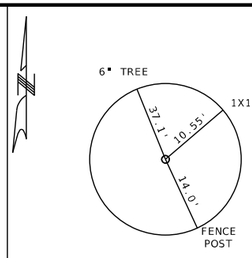
ELEV.:473.30



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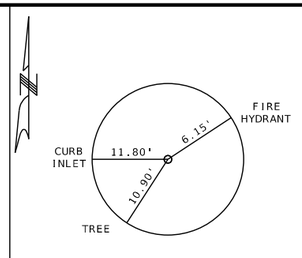
E:906,158.41
ELEV.:485.29



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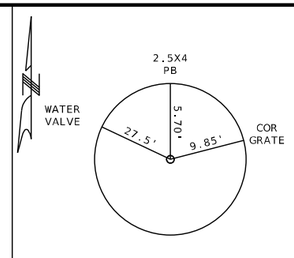

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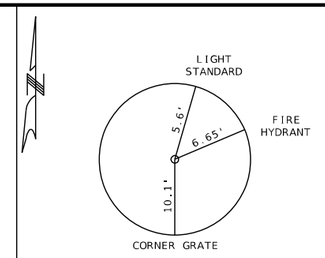
ELEV.:493.99



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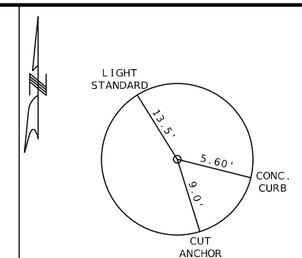
E:903,558.80
ELEV.:507.26



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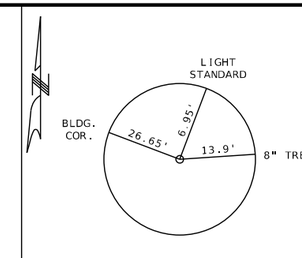
ELEV.:505.60



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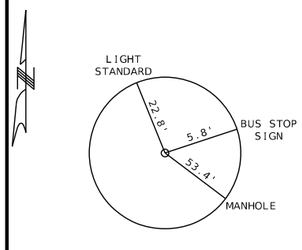
ELEV.:519.81



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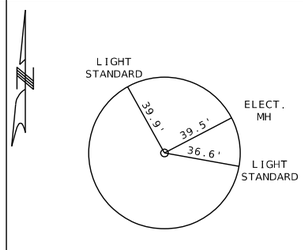
ELEV.:533.64



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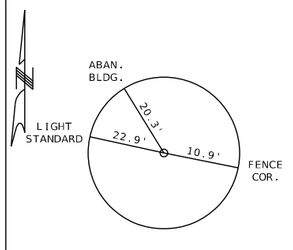

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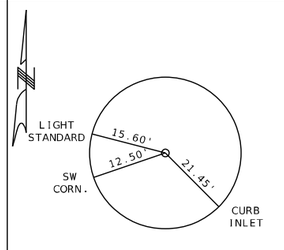

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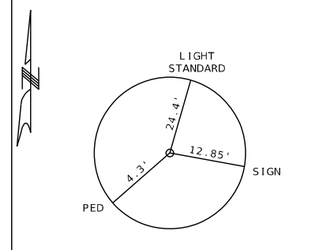

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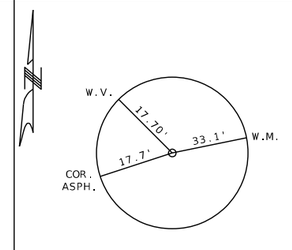

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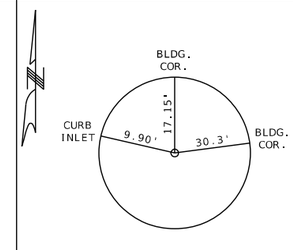

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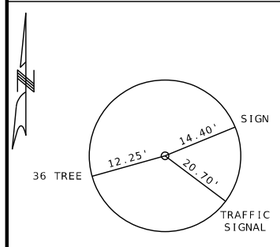

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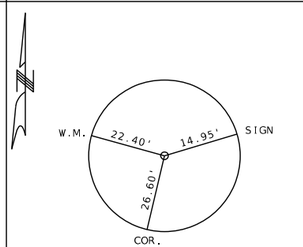

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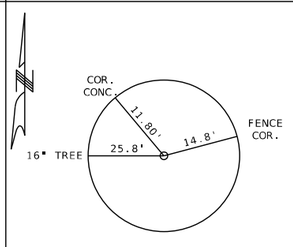

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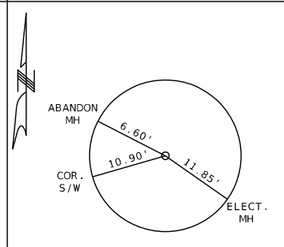

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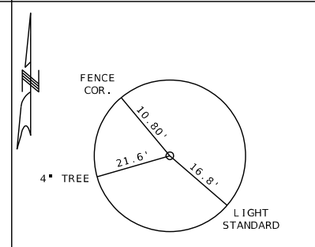
ELEV.:502.29



CP #19
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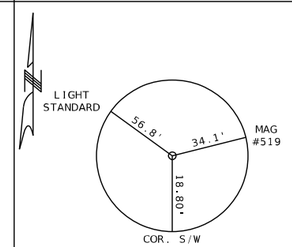
ELEV.:502.29



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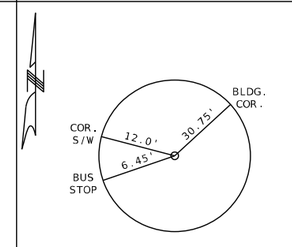

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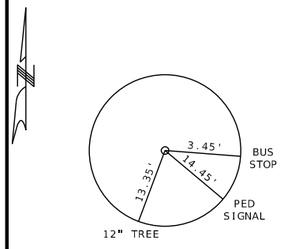

CP #22
N:1,028,212.01
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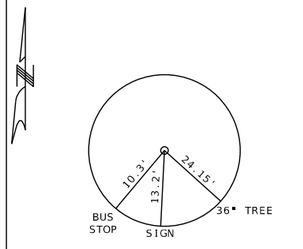
ELEV.:509.15



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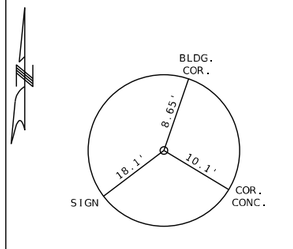
E:890,307.13
ELEV.:500.69



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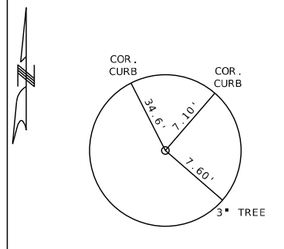
E:899,258.59
ELEV.:511.73



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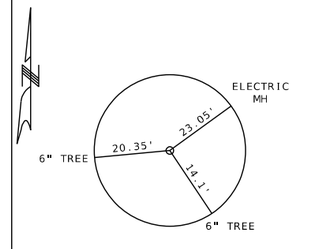
ELEV.:523.07



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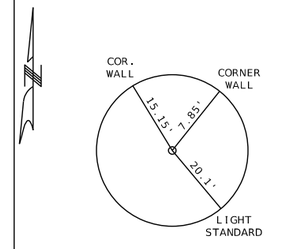
ELEV.:527.75



CP #27
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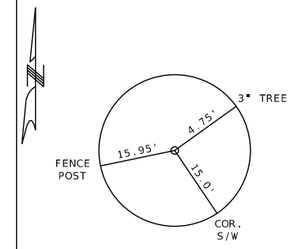
E:886,573.36
ELEV.:522.24



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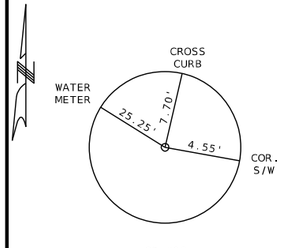
ELEV.:512.98



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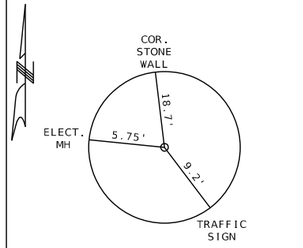
ELEV.:528.23



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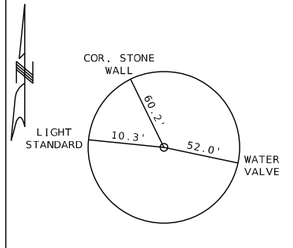

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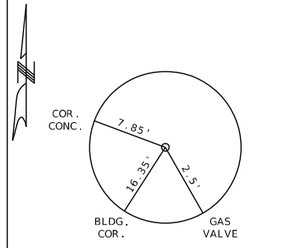

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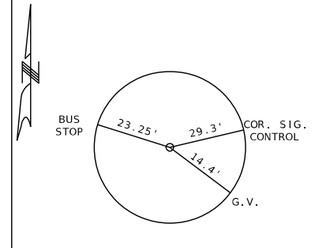
ELEV.:525.54



CP #33
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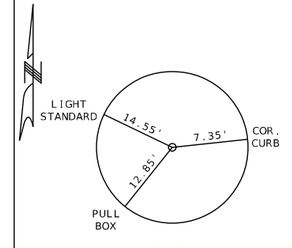
ELEV.:527.85



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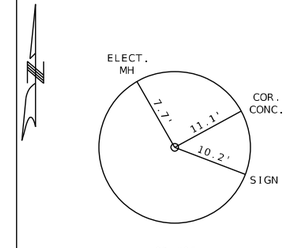
ELEV.:564.80



CP #35
N:1,032,952.05
E:880,616.66
ELEV.:518.76

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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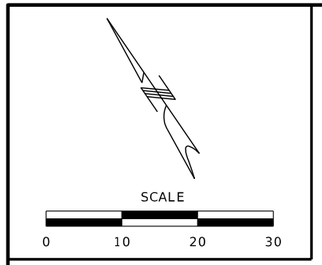
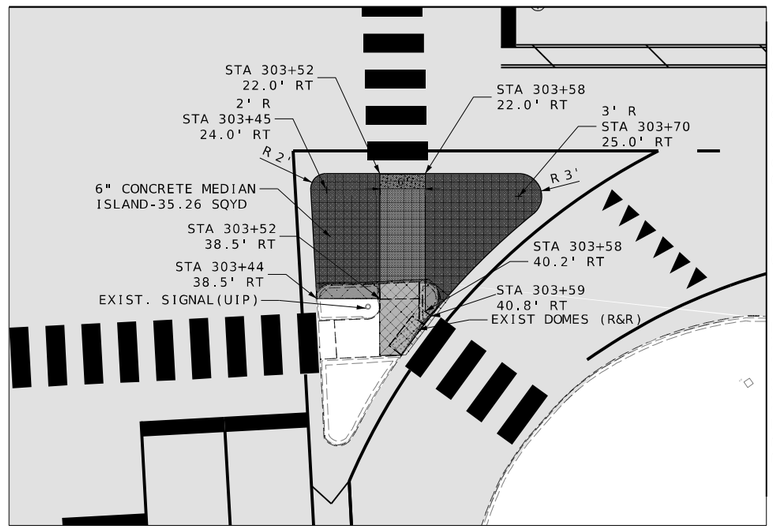
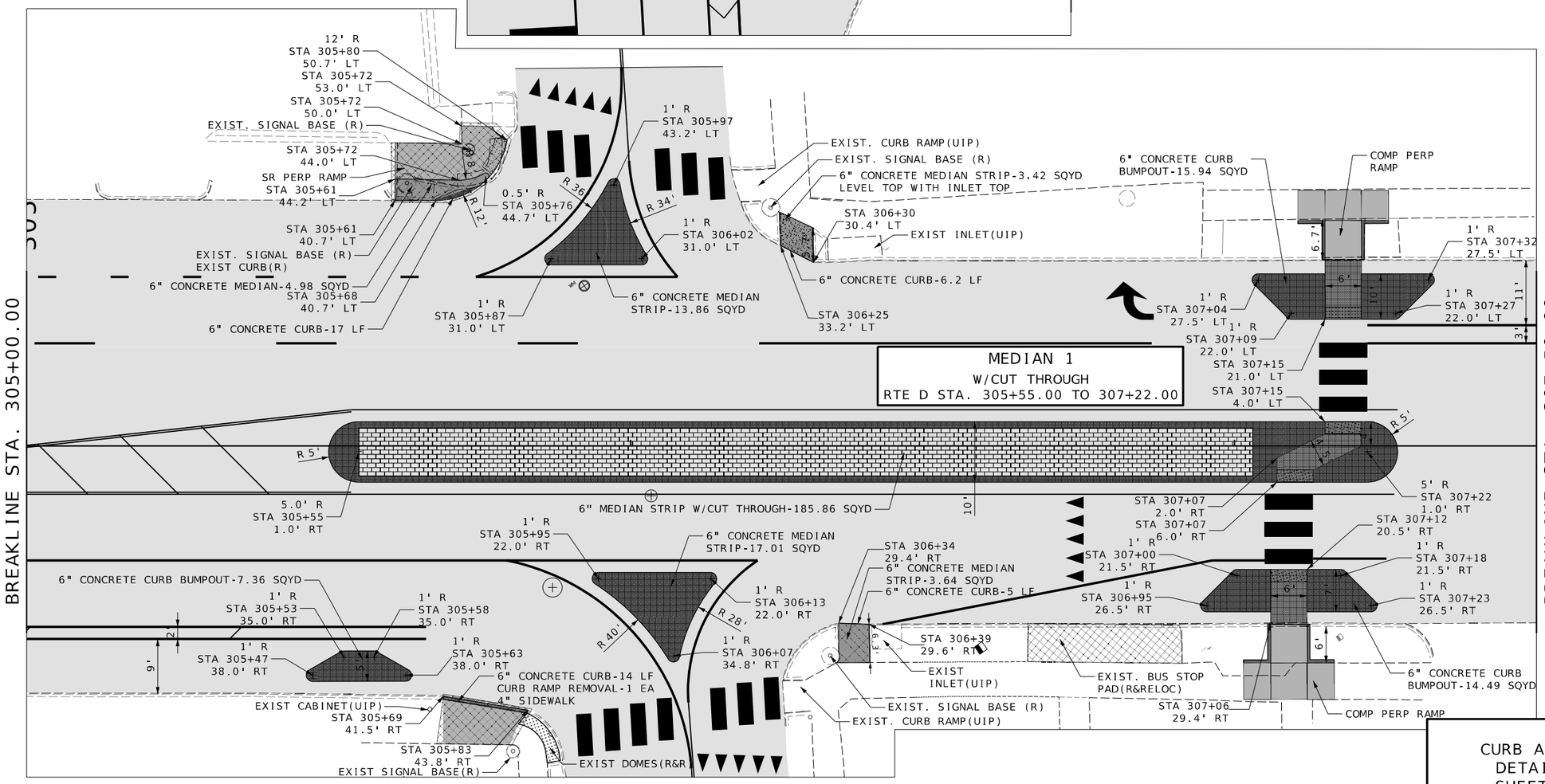
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668







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NOTES:

SEE SPECIAL SHEETS FOR ADDITIONAL BUMPOUTS AND MEDIAN DETAILS.

TYPICAL RADII OF CONCRETE BUMPOUTS IS 1 FT UNLESS SPECIFIED OTHERWISE.

CURB AND MEDIAN
DETAIL SHEET
SHEET 1 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

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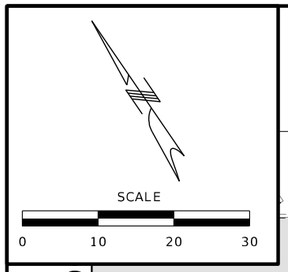

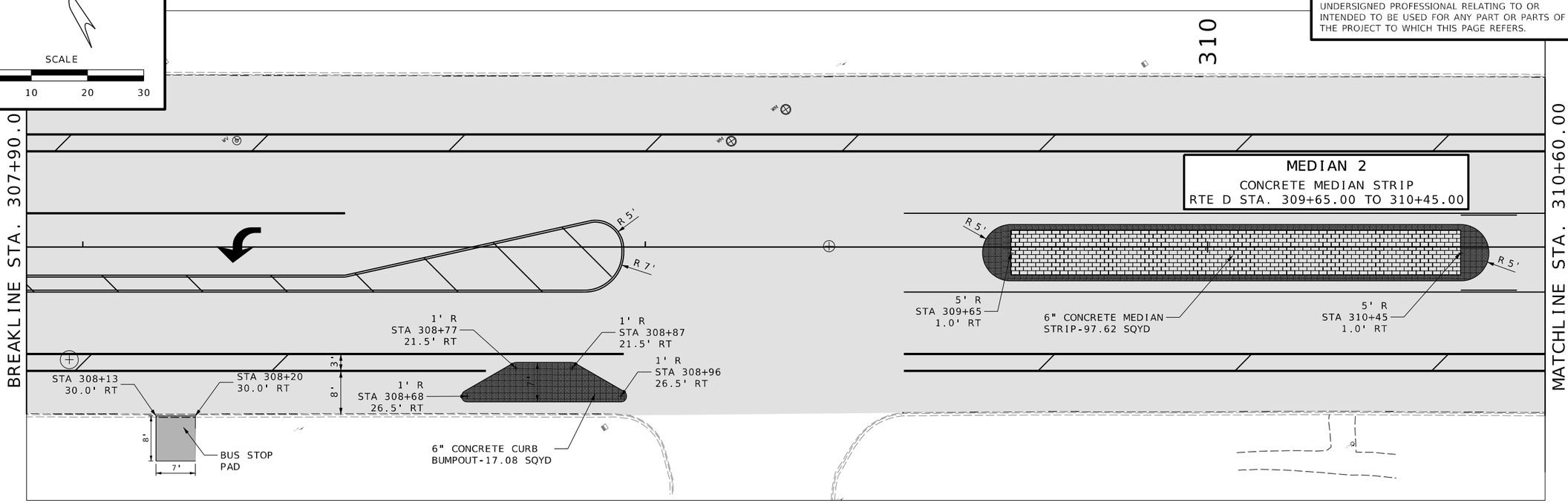

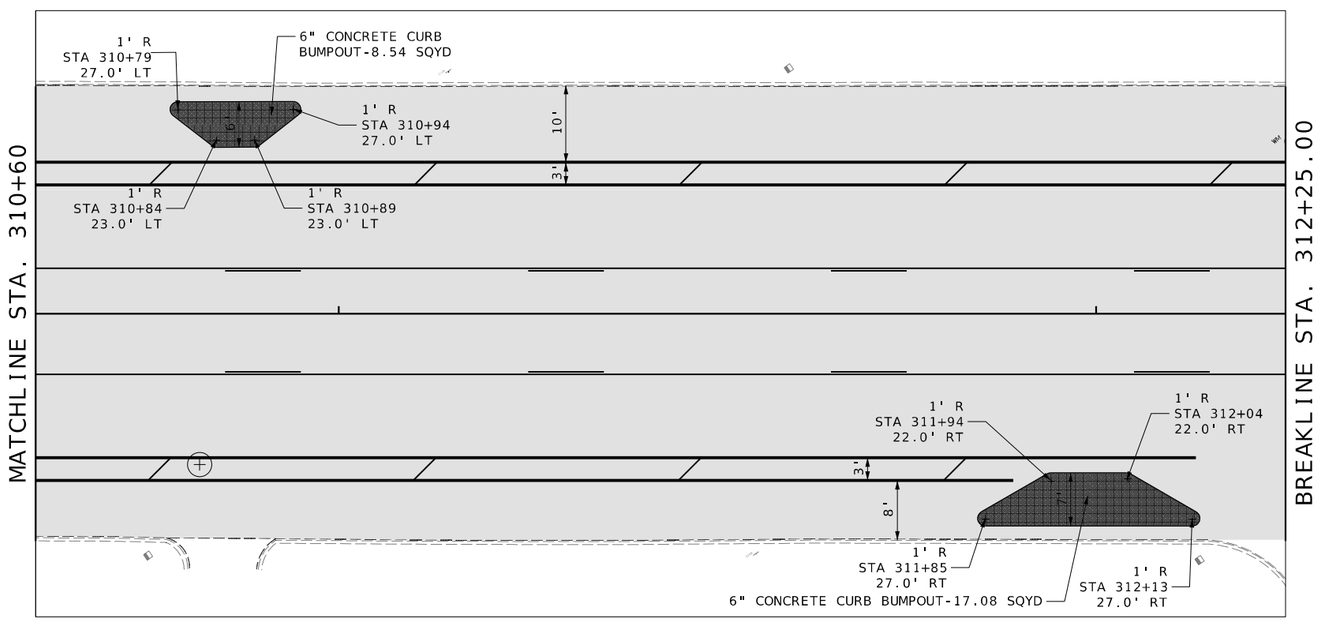

CURB AND MEDIAN
DETAIL SHEET
SHEET 2 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	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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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SCALE

0 10 20 30

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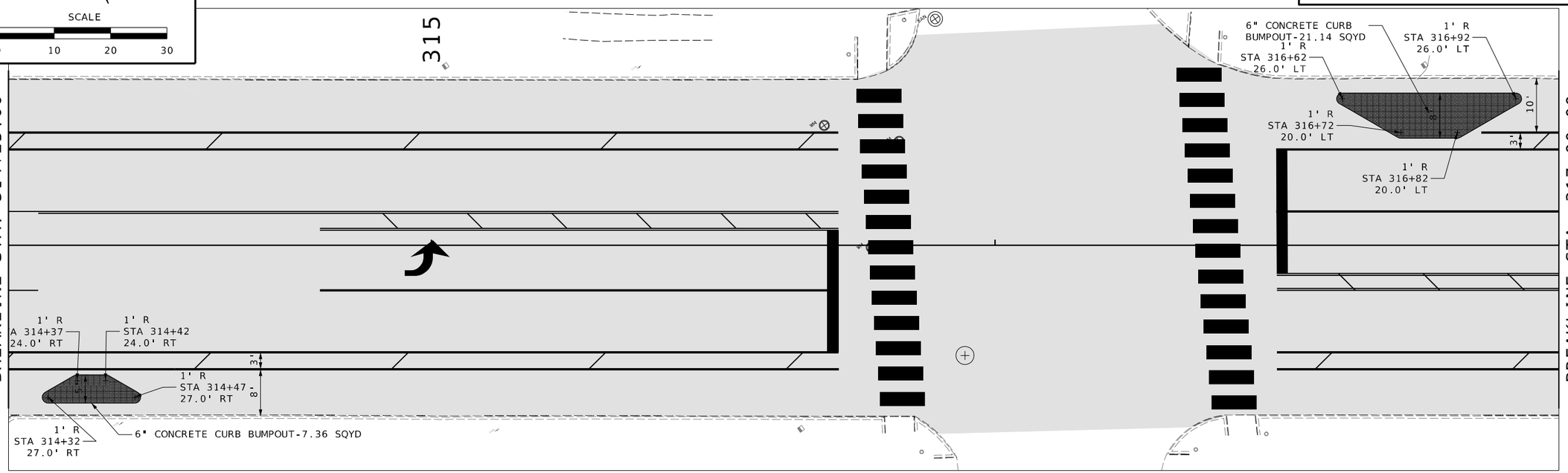

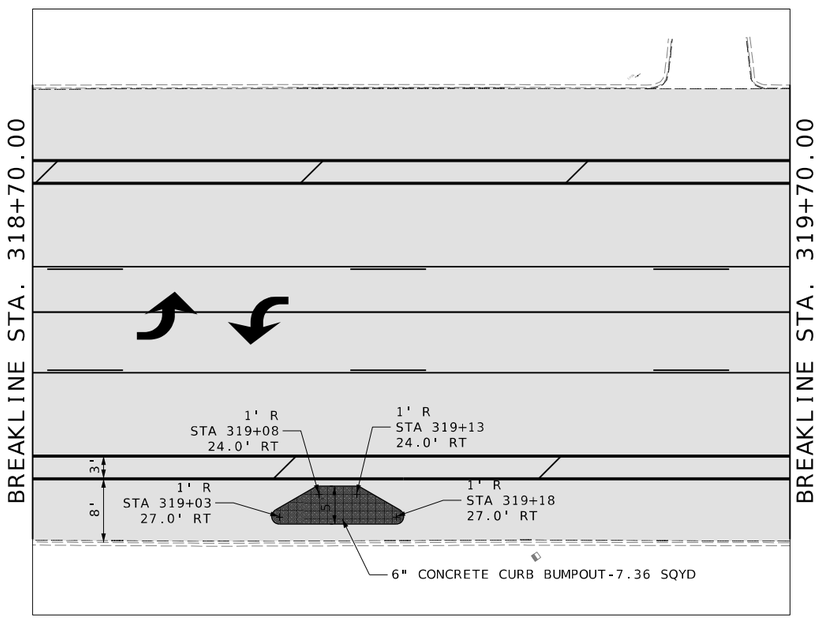

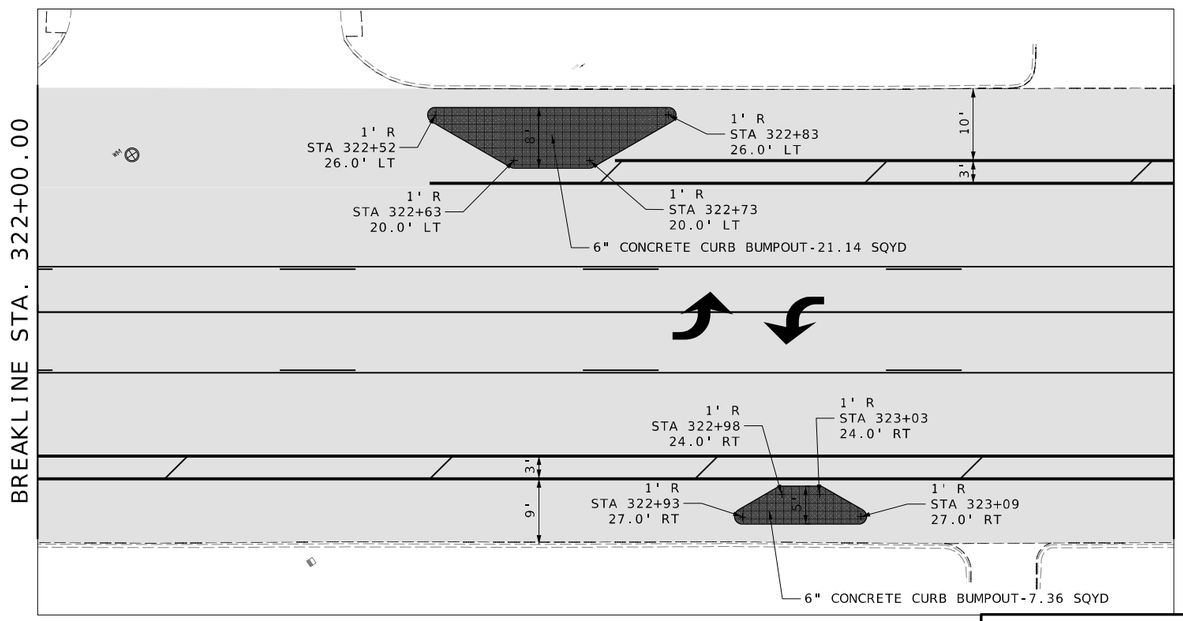

CURB AND MEDIAN
DETAIL SHEET
SHEET 3 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
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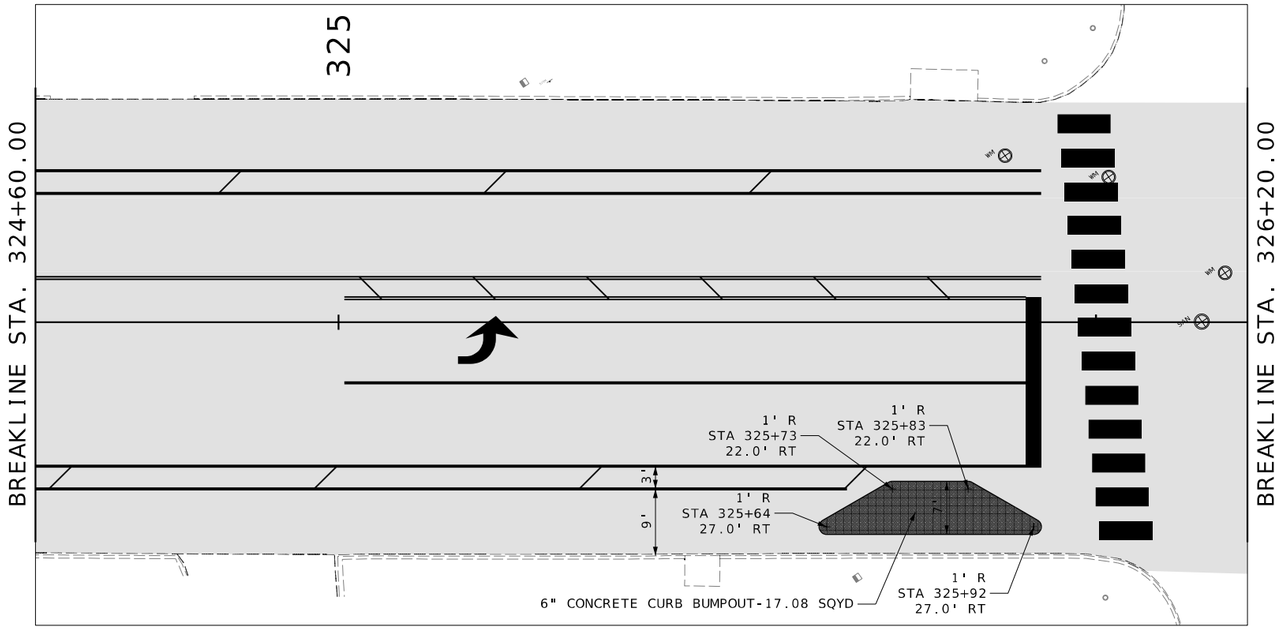
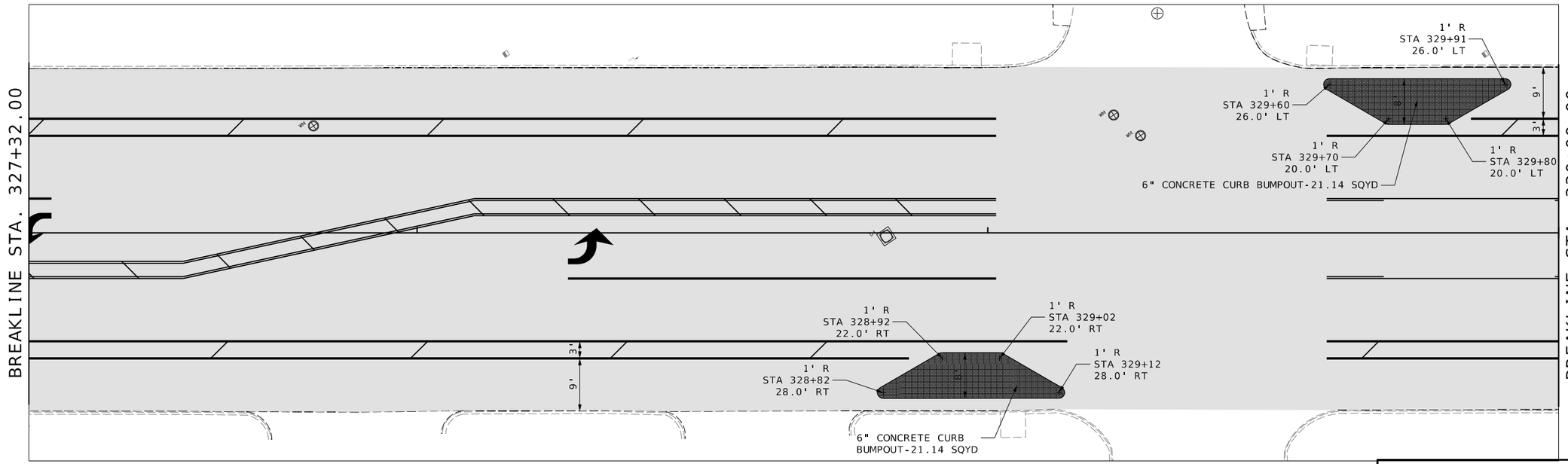
ENGINEER
PE-2018040668

REV.

SCALE

0 10 20 30





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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PROFESSIONAL ENGINEER
PE-2018040668

CURB AND MEDIAN DETAIL SHEET
SHEET 4 OF 44

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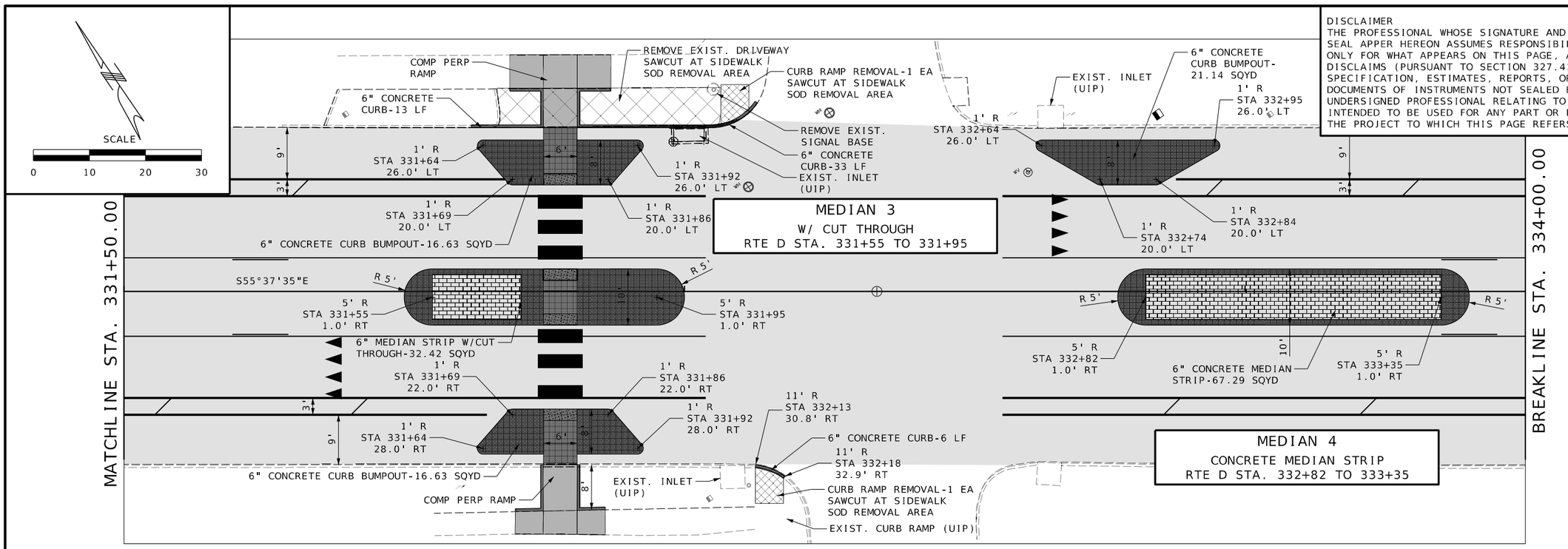

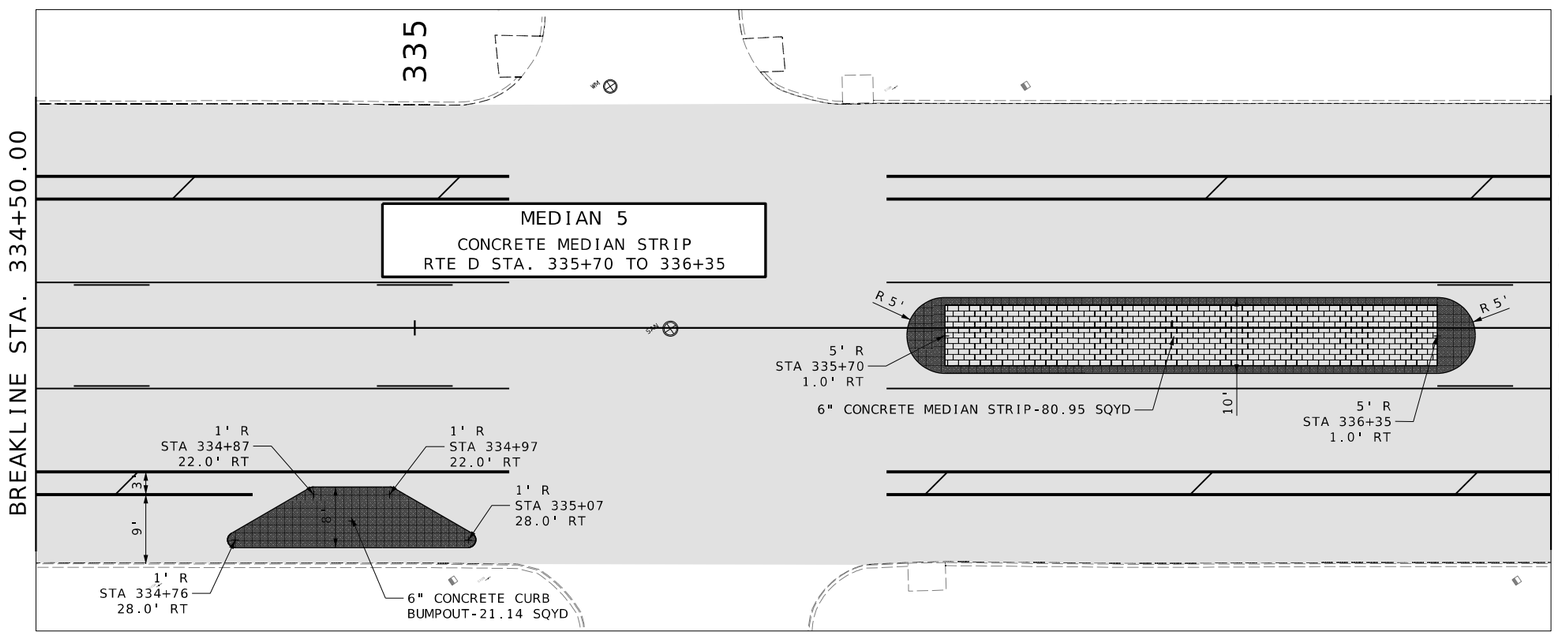

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NOTES:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE AND SALVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN
DETAIL SHEET
SHEET 5 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	56

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	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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CHESTERFIELD, MO 63017
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PRO. LAND SURVEYOR 000059

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PE-2018040668

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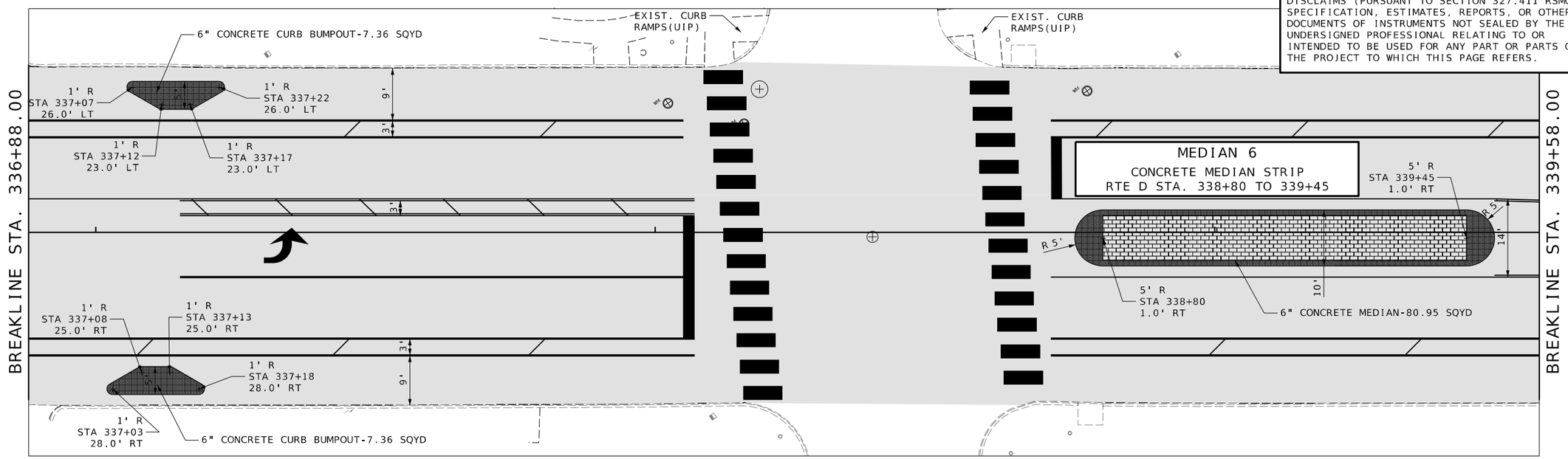

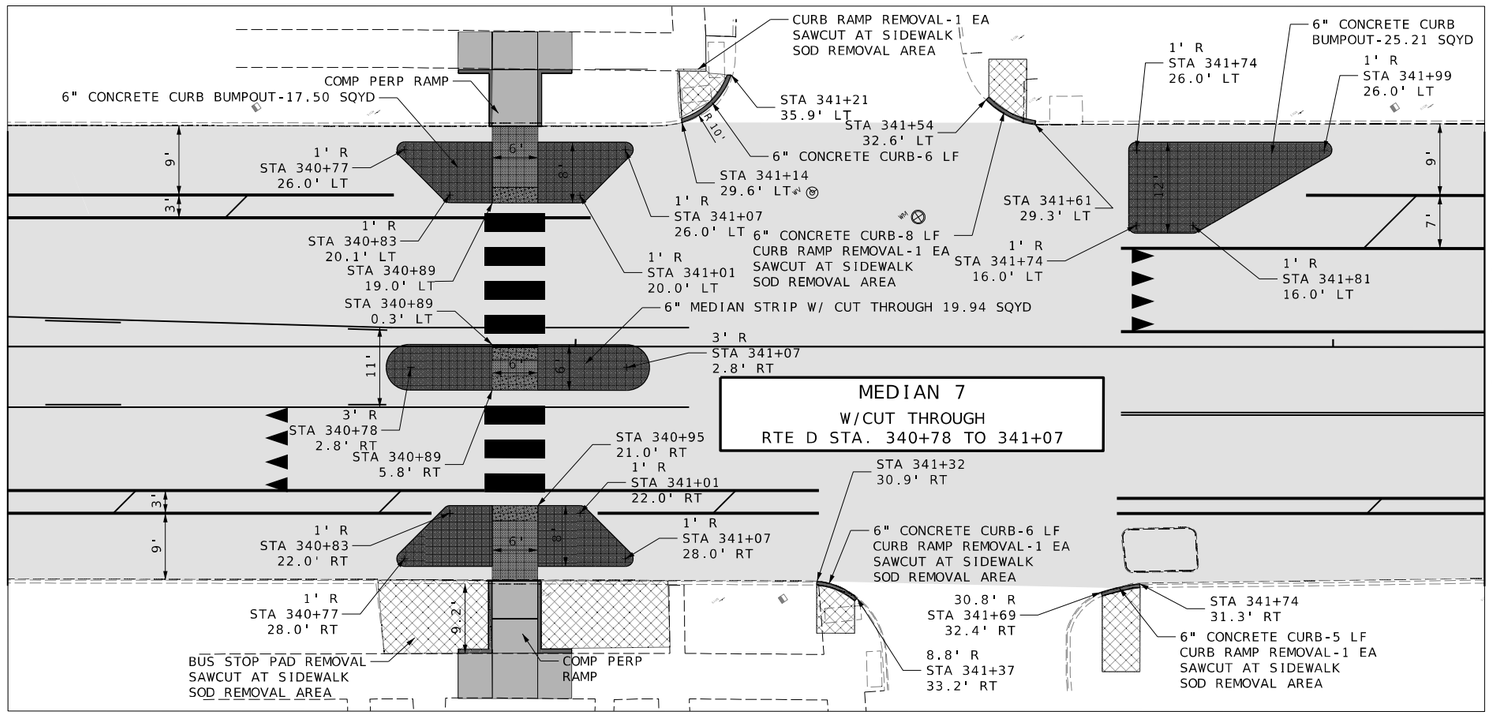

SCALE
0 10 20 30

NOTES:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE AND SALVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN DETAIL SHEET
SHEET 6 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	57

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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PRO. LAND SURVEYOR 000059

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PROFESSIONAL ENGINEER
PE-2018040668

REV.

SCALE
0 10 20 30

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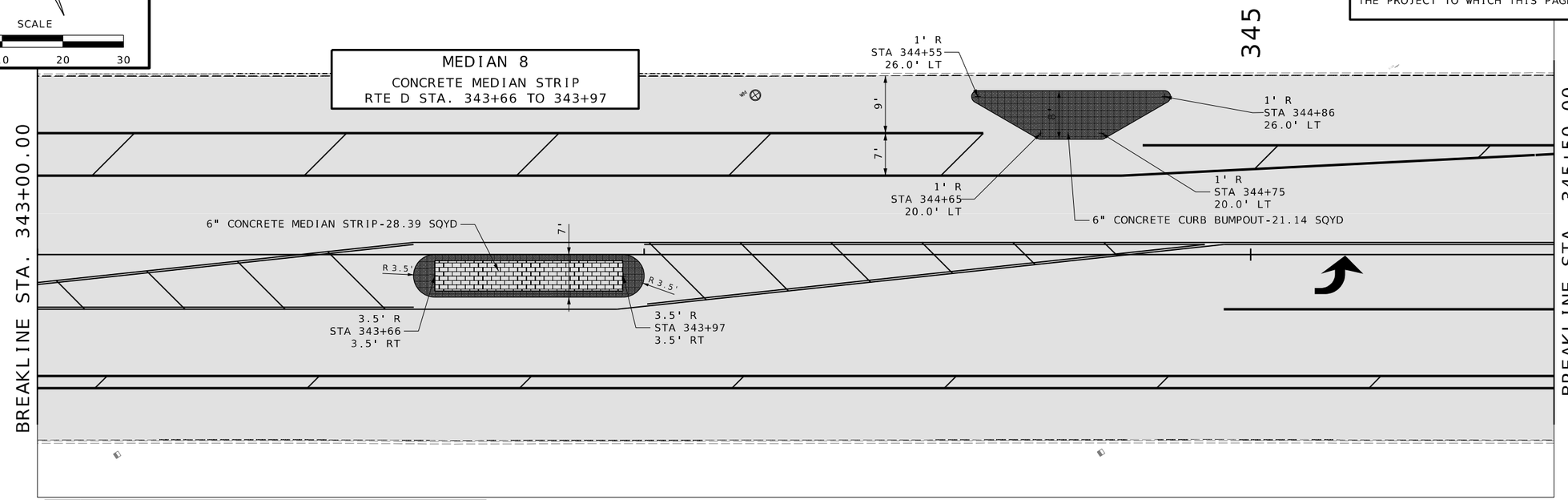
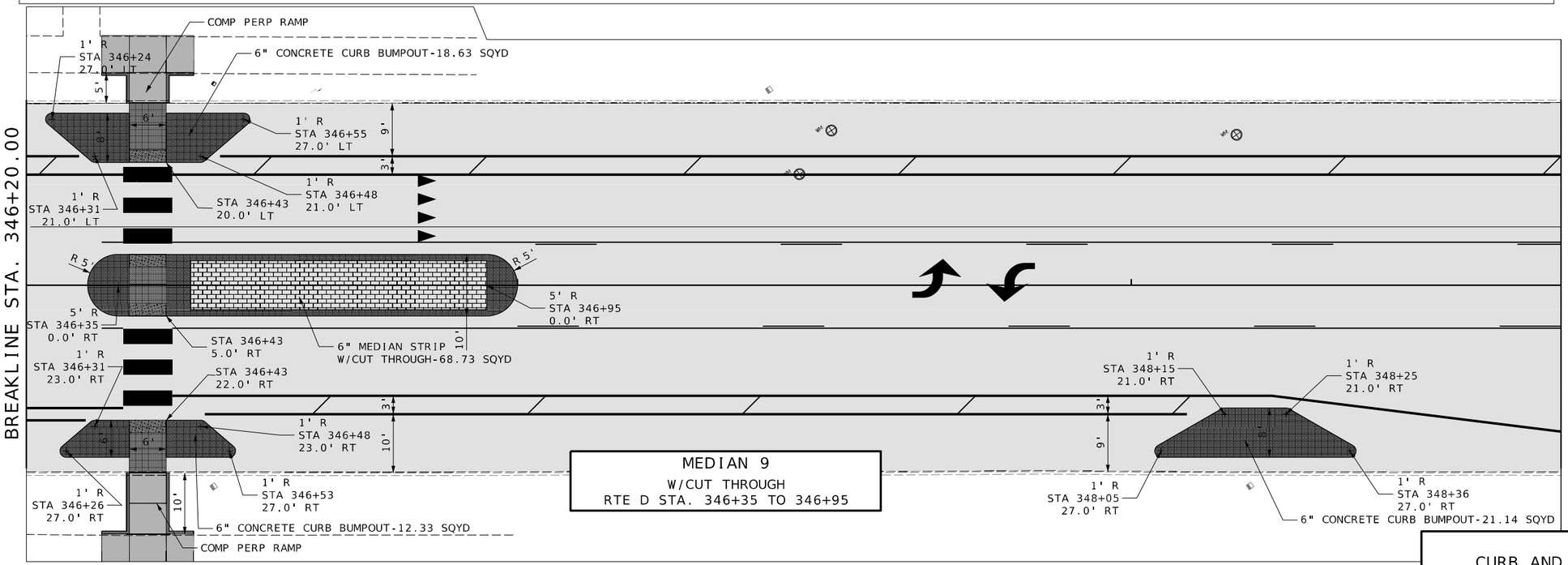
MEDIAN 8
CONCRETE MEDIAN STRIP
RTE D STA. 343+66 TO 343+97





MEDIAN 9
W/CUT THROUGH
RTE D STA. 346+35 TO 346+95

NOTES:
FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE AND SALVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN DETAIL SHEET
SHEET 7 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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105 WEST CAPITOL
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GBAteam.com

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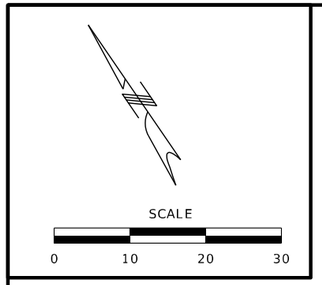
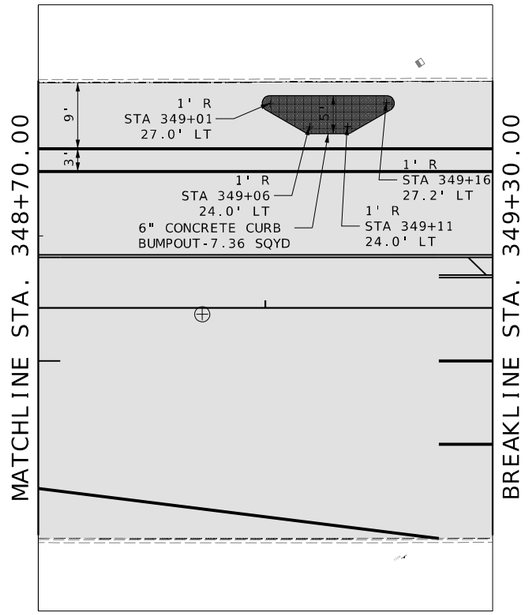
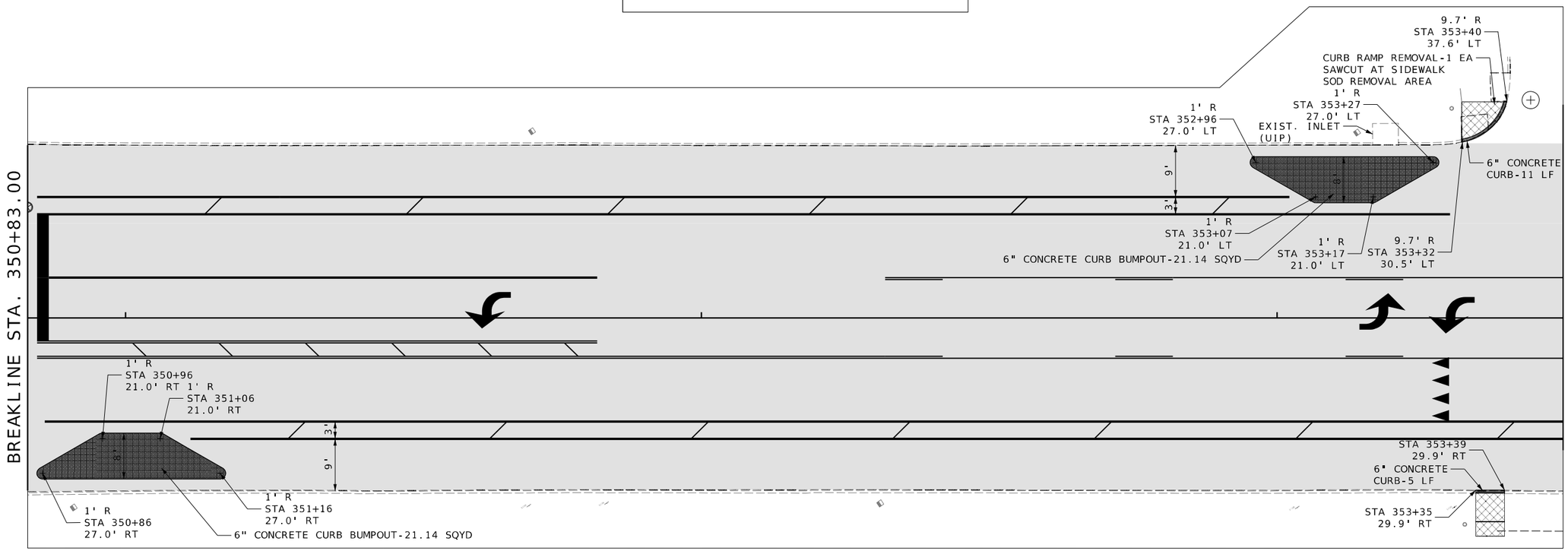
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668







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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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BRIDGE NO.

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ENGINEER
PE-2018040668

REV.

CURB AND MEDIAN
DETAIL SHEET
SHEET 8 OF 44

SCALE
0 10 20 30

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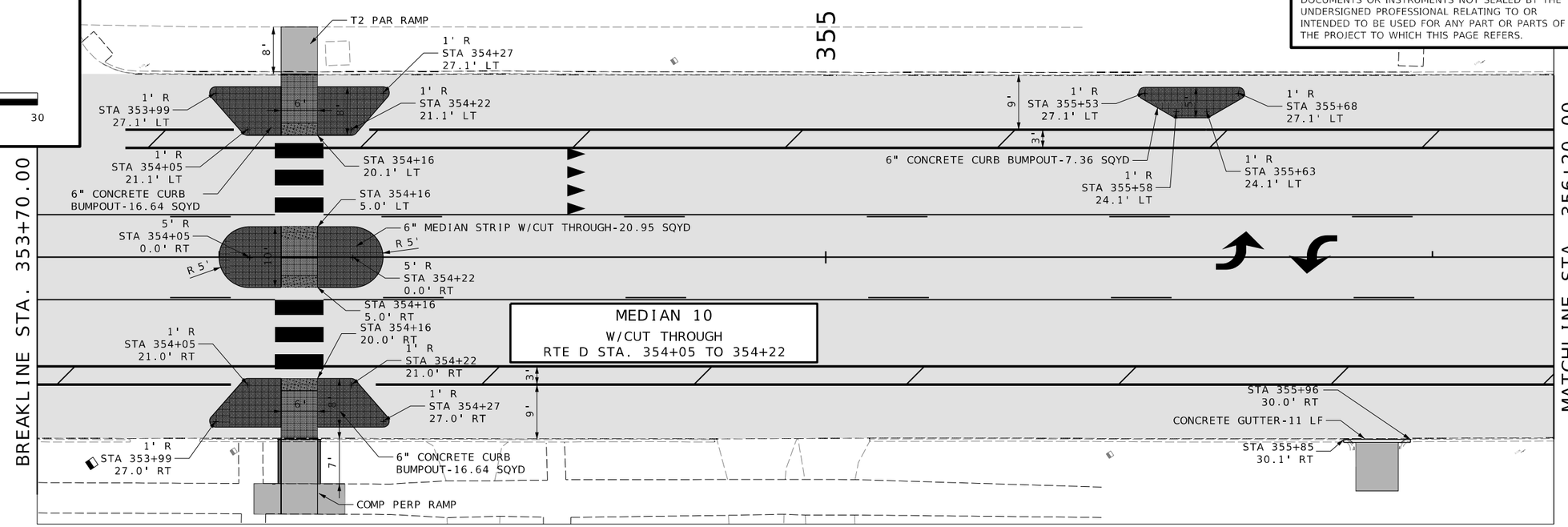

CURB AND MEDIAN
DETAIL SHEET
SHEET 9 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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D	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
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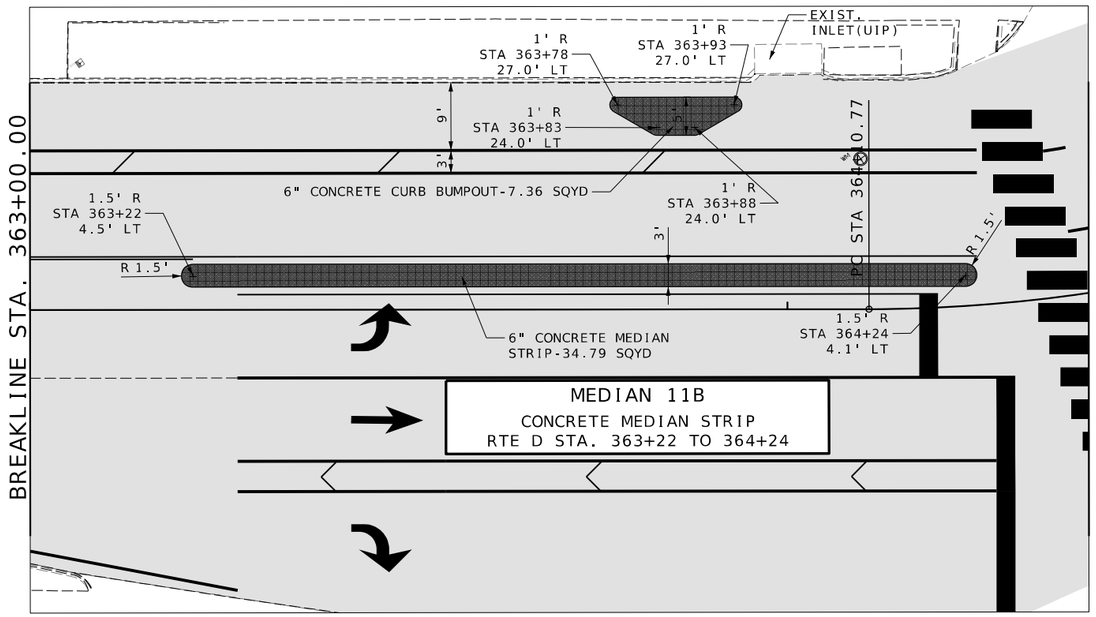

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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PROFESSIONAL ENGINEER
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CURB AND MEDIAN DETAIL SHEET
SHEET 10 OF 44

REV.

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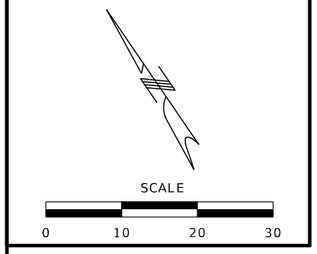

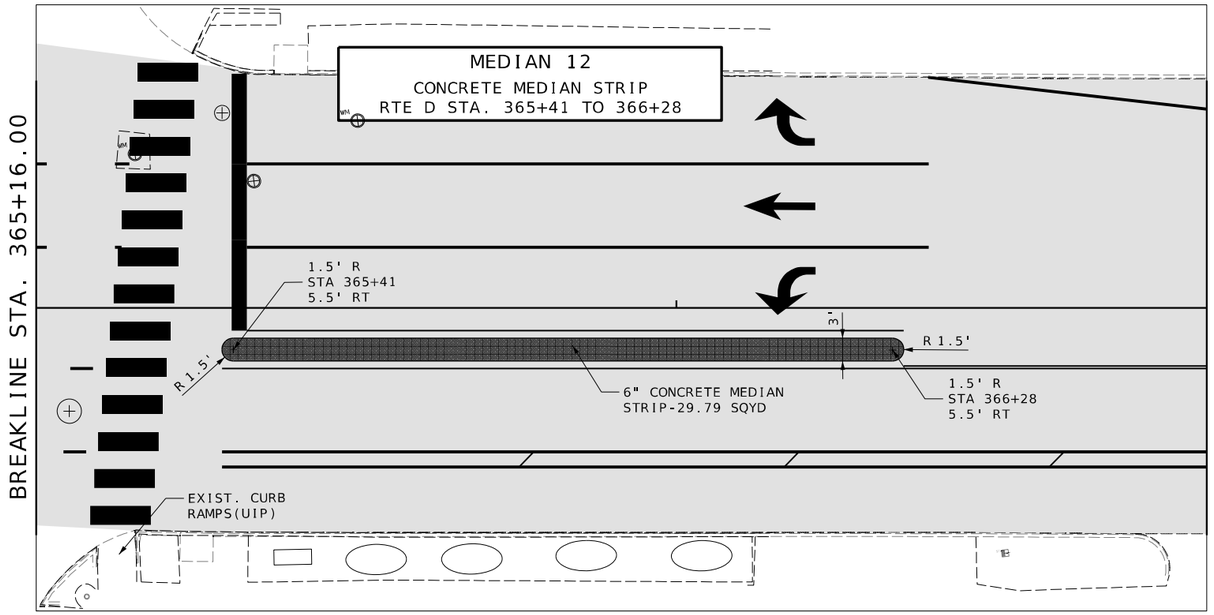

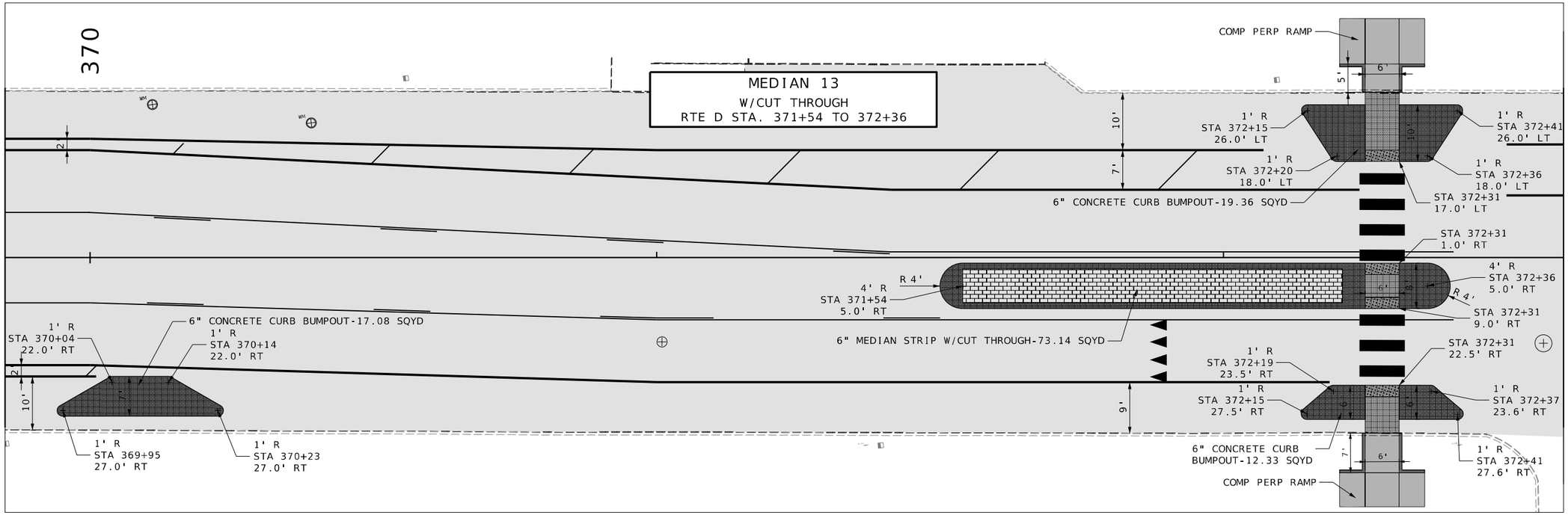

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PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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PROFESSIONAL
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PE-2018040668

REV.

CURB AND MEDIAN DETAIL SHEET
SHEET 11 OF 44

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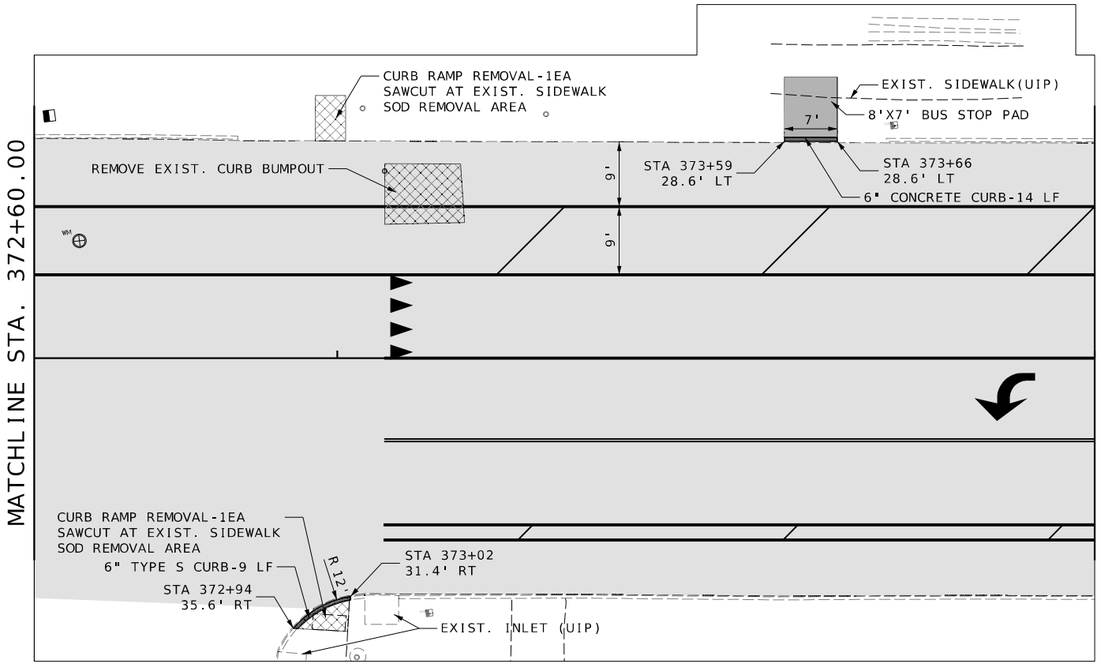

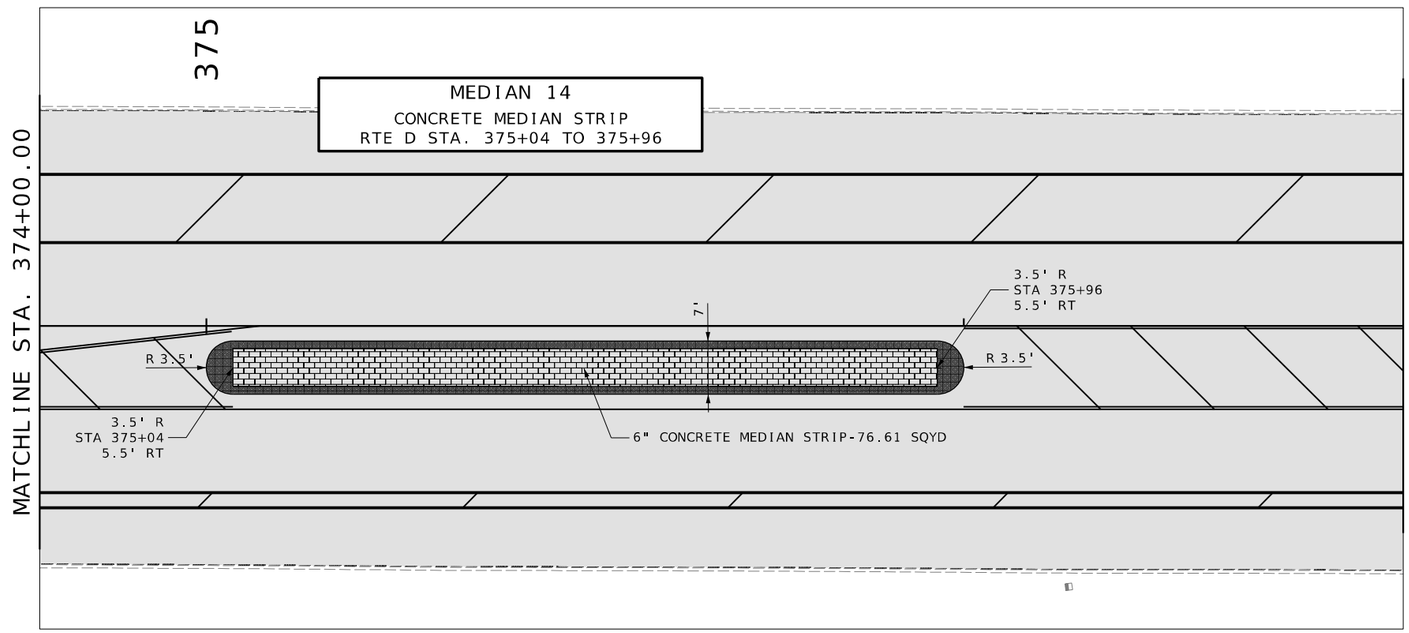

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SL	63

COUNTY
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CURB AND MEDIAN
DETAIL SHEET
SHEET 12 OF 44

SCALE

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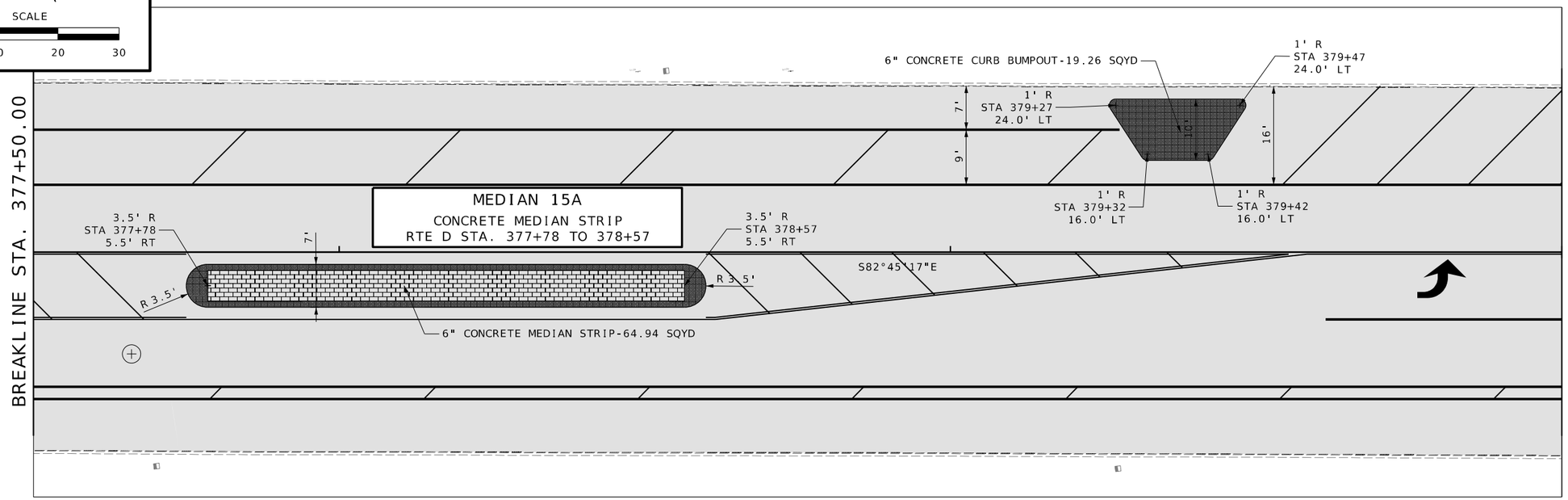

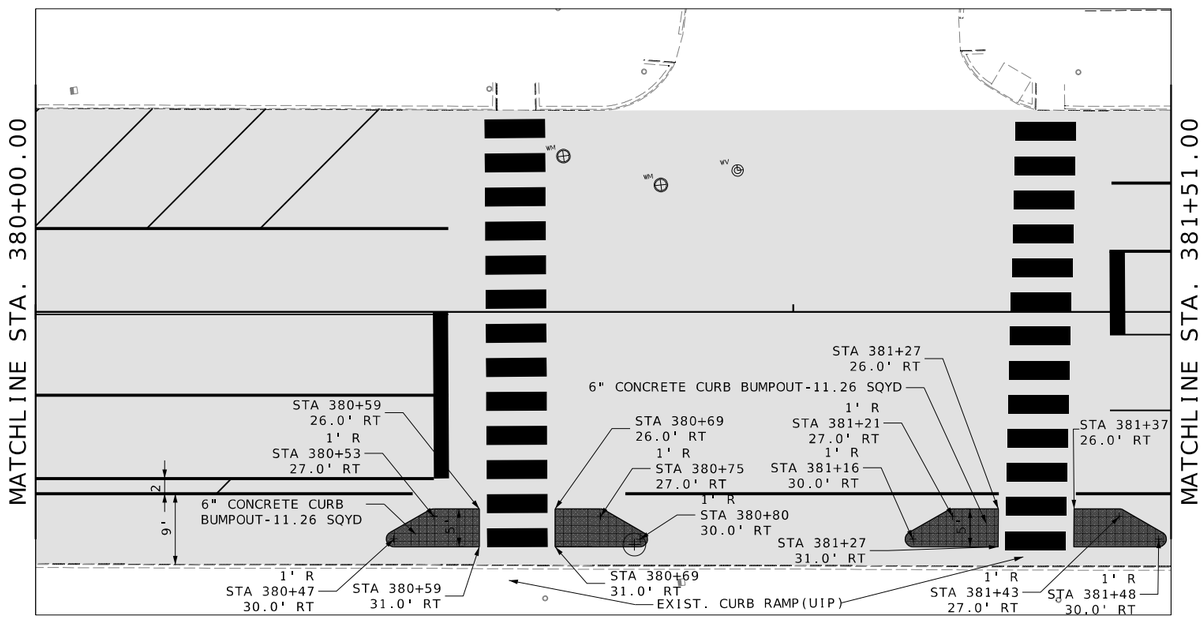

CURB AND MEDIAN
DETAIL SHEET
SHEET 13 OF 44

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ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	64

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

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ENGINEER
PE-2018040668

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REV.

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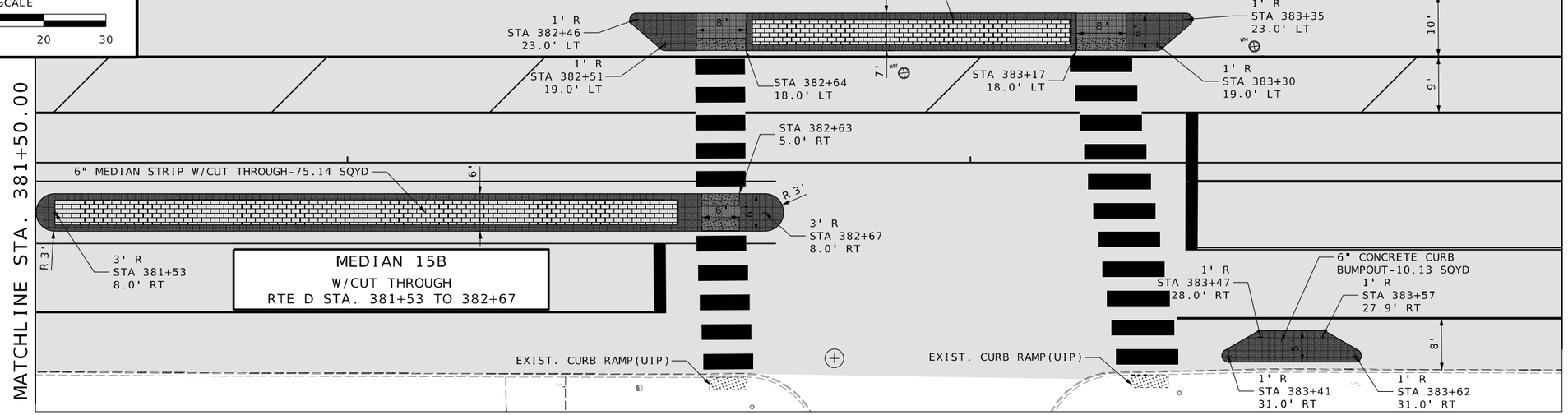

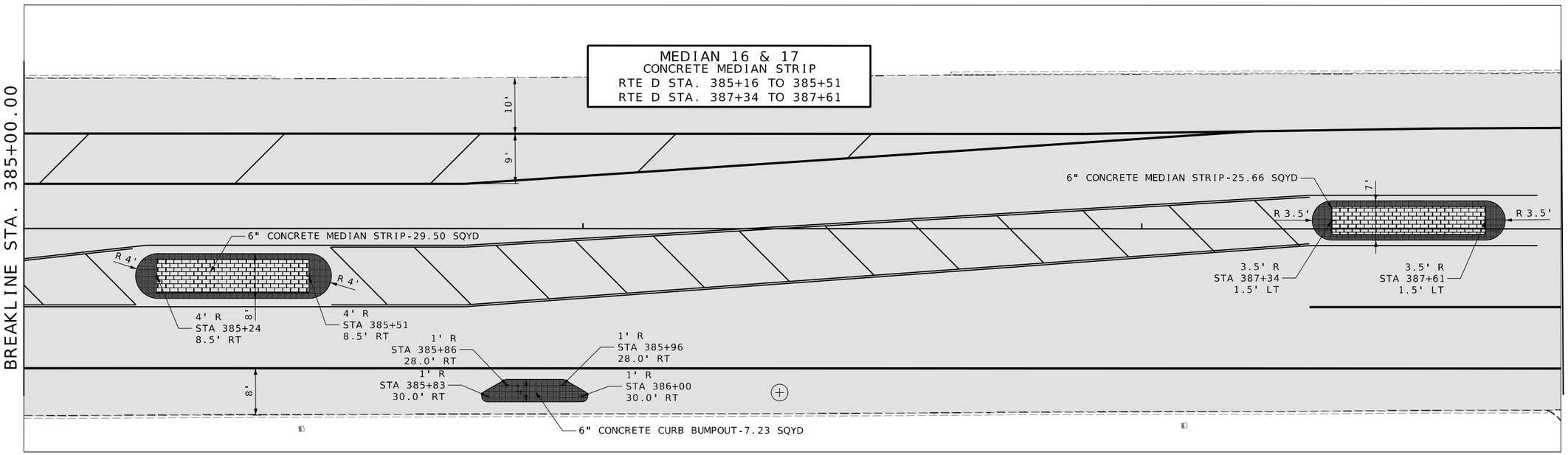

CURB AND MEDIAN
DETAIL SHEET
SHEET 14 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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D	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
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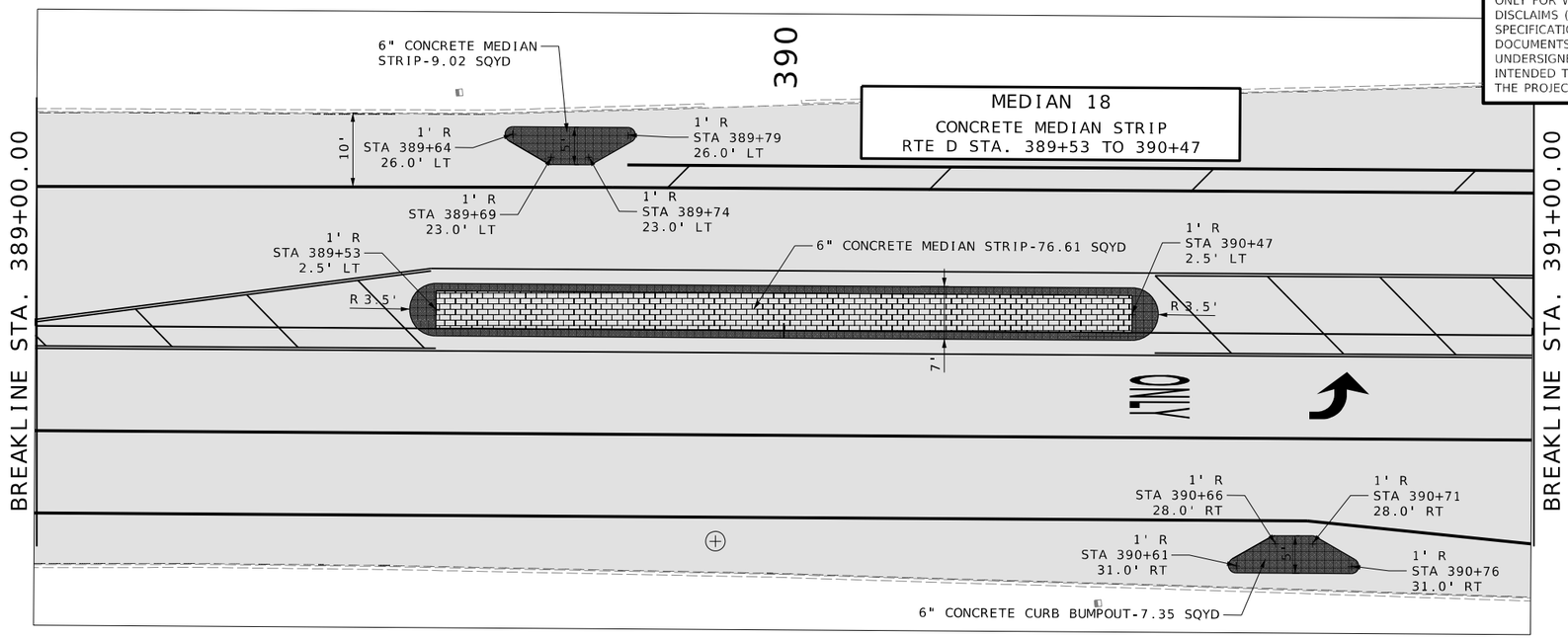

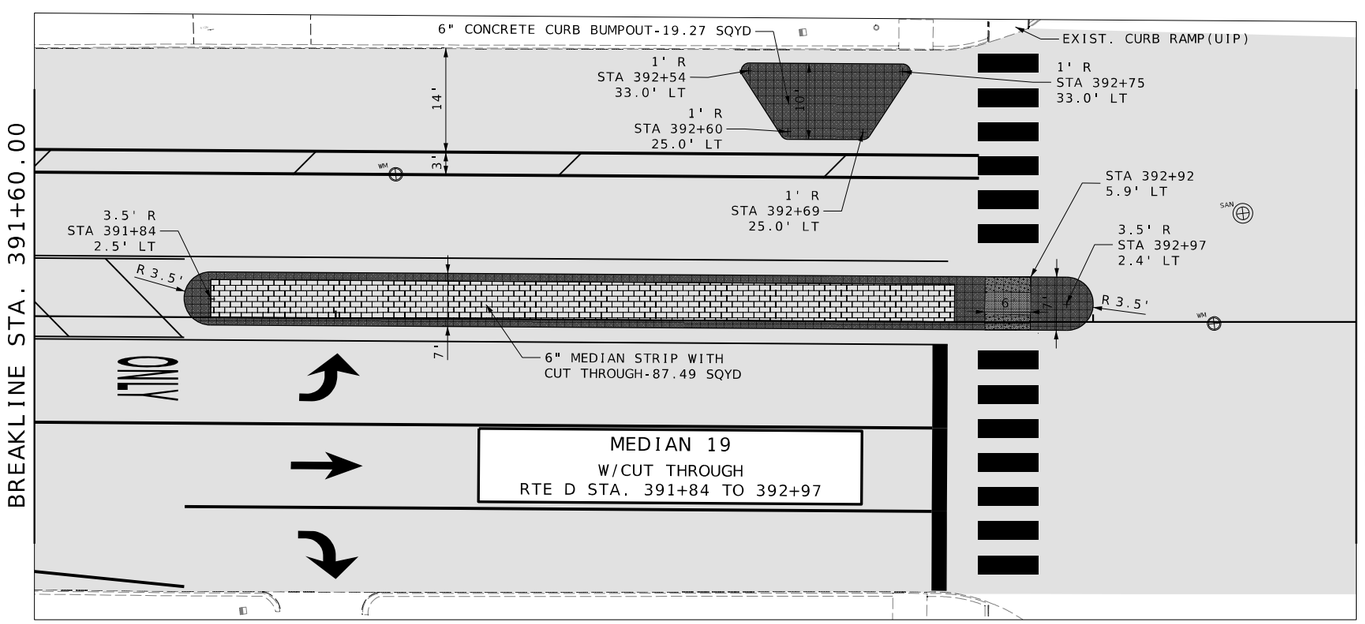

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CURB AND MEDIAN DETAIL SHEET
SHEET 15 OF 44

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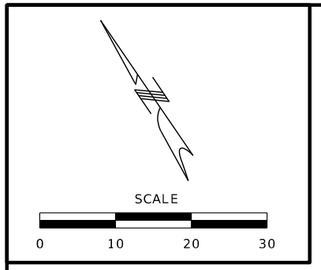

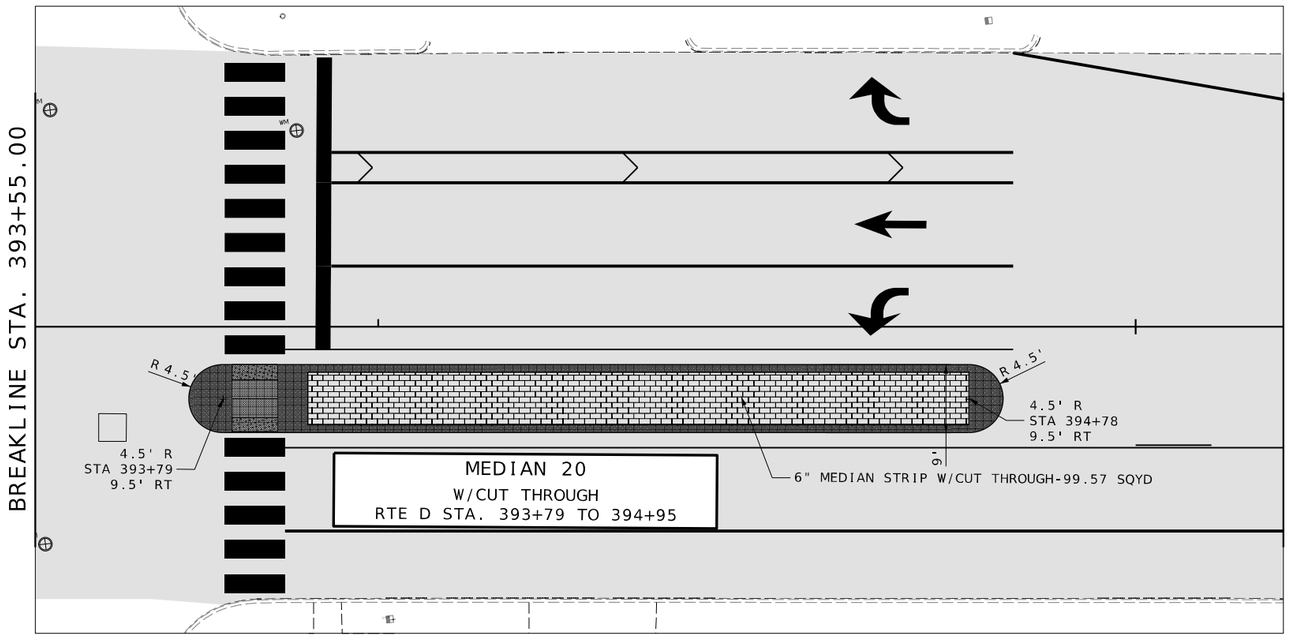

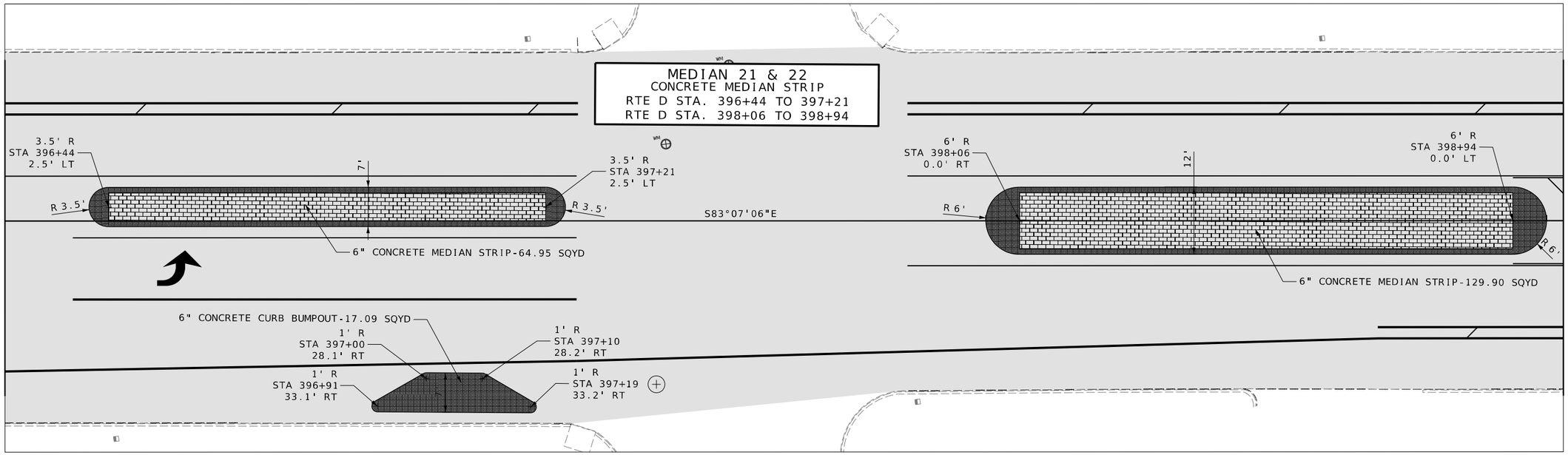

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D	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
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PRO. LAND SURVEYOR 000059

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CURB AND MEDIAN
DETAIL SHEET
SHEET 16 OF 44

SCALE

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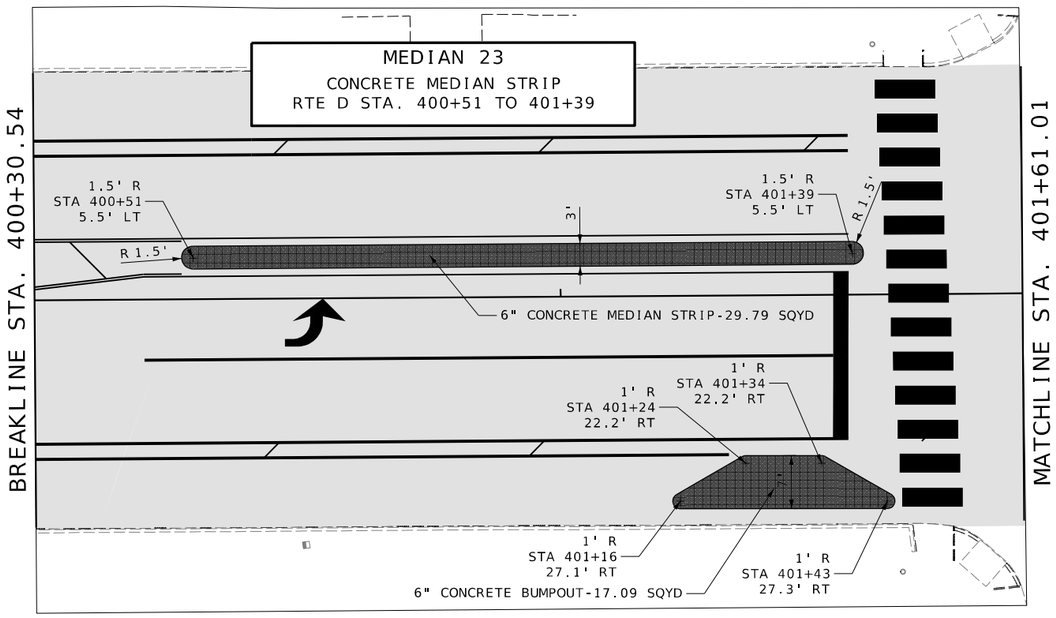

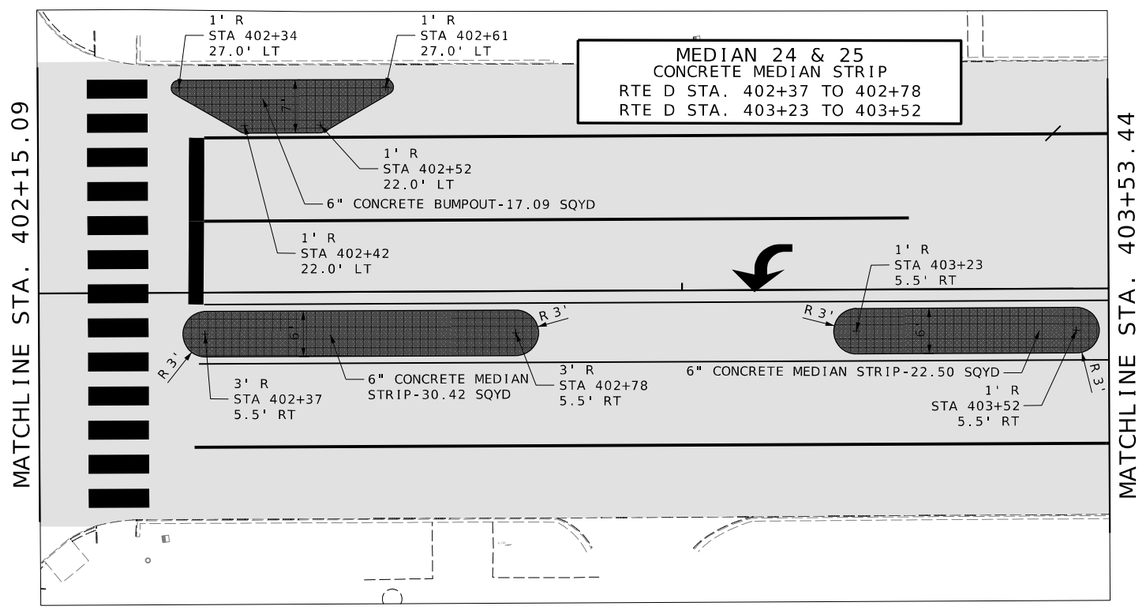

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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16305 SWINGLEY RIDGE RD
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

CURB AND MEDIAN DETAIL SHEET
SHEET 17 OF 44

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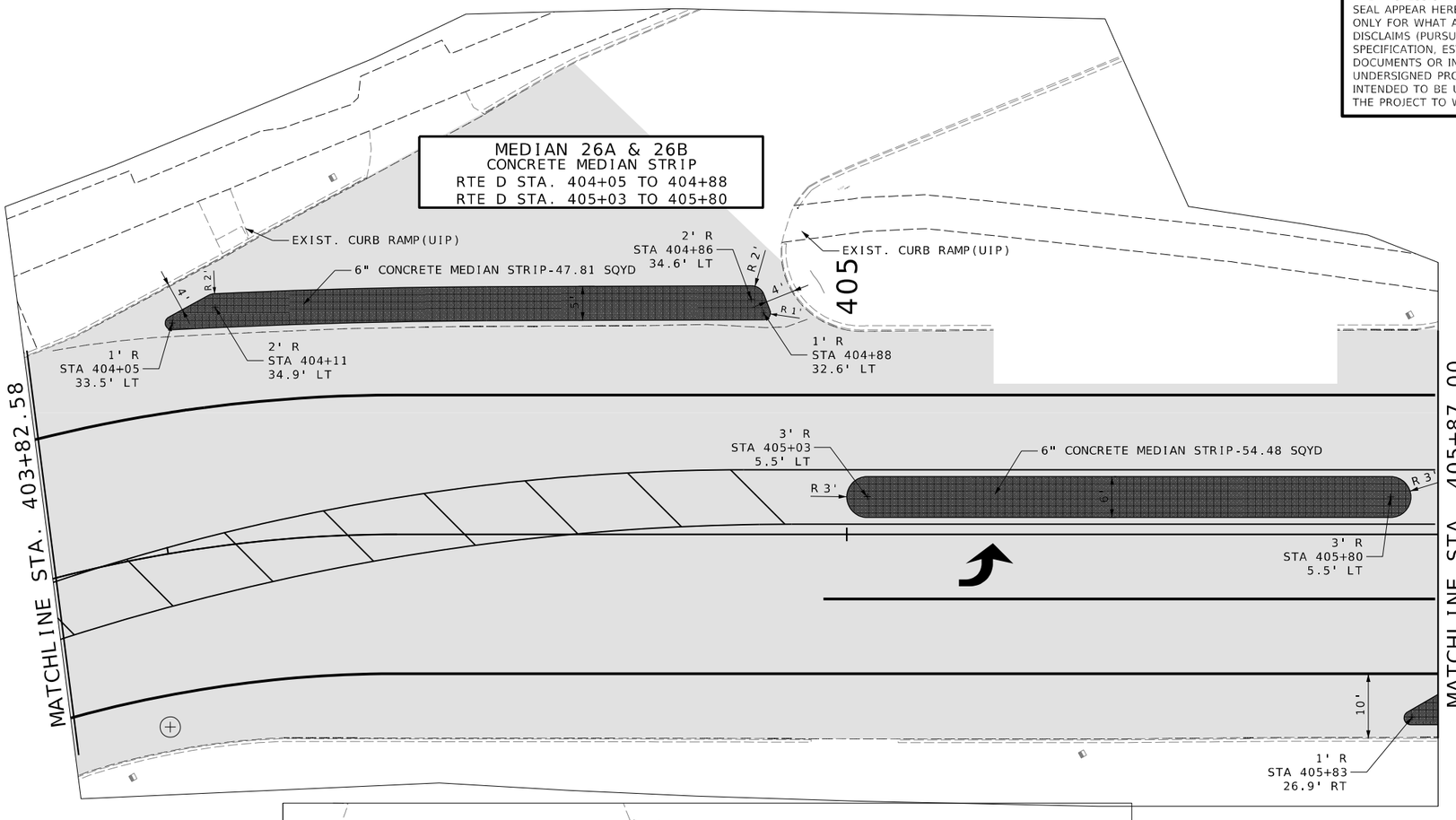
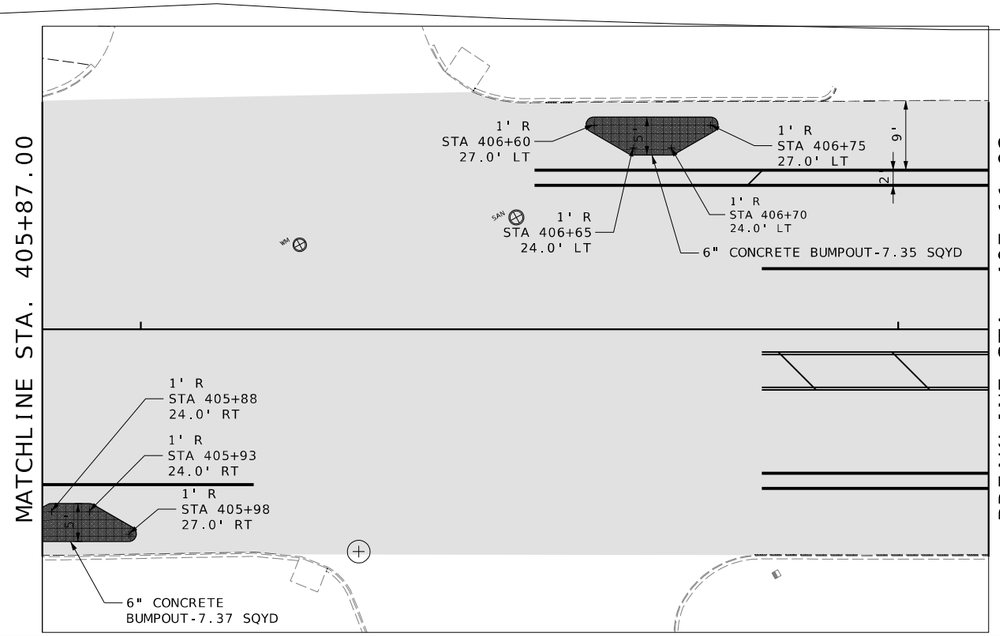
MEDIAN 26A & 26B
CONCRETE MEDIAN STRIP
RTE D STA. 404+05 TO 404+88
RTE D STA. 405+03 TO 405+80





CURB AND MEDIAN
DETAIL SHEET
SHEET 18 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	69

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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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PRO. LAND SURVEYOR 000059

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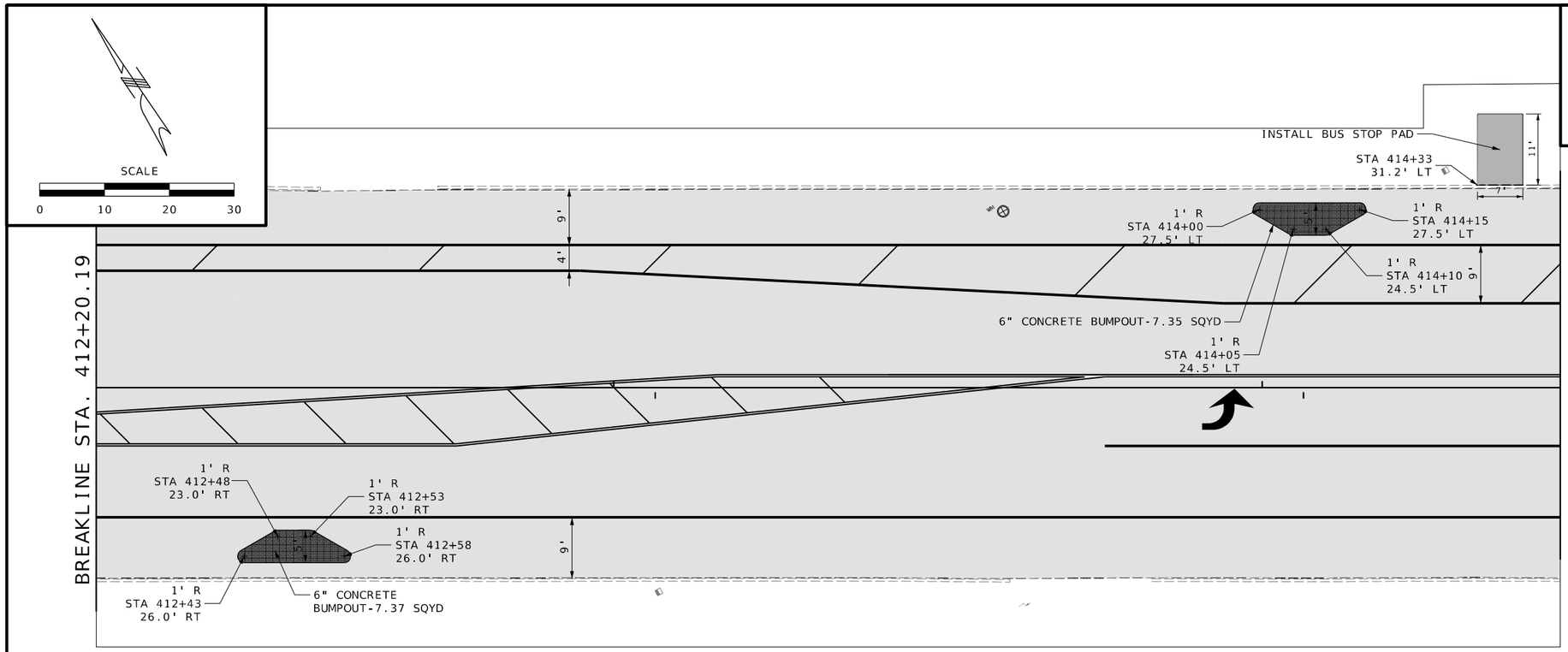
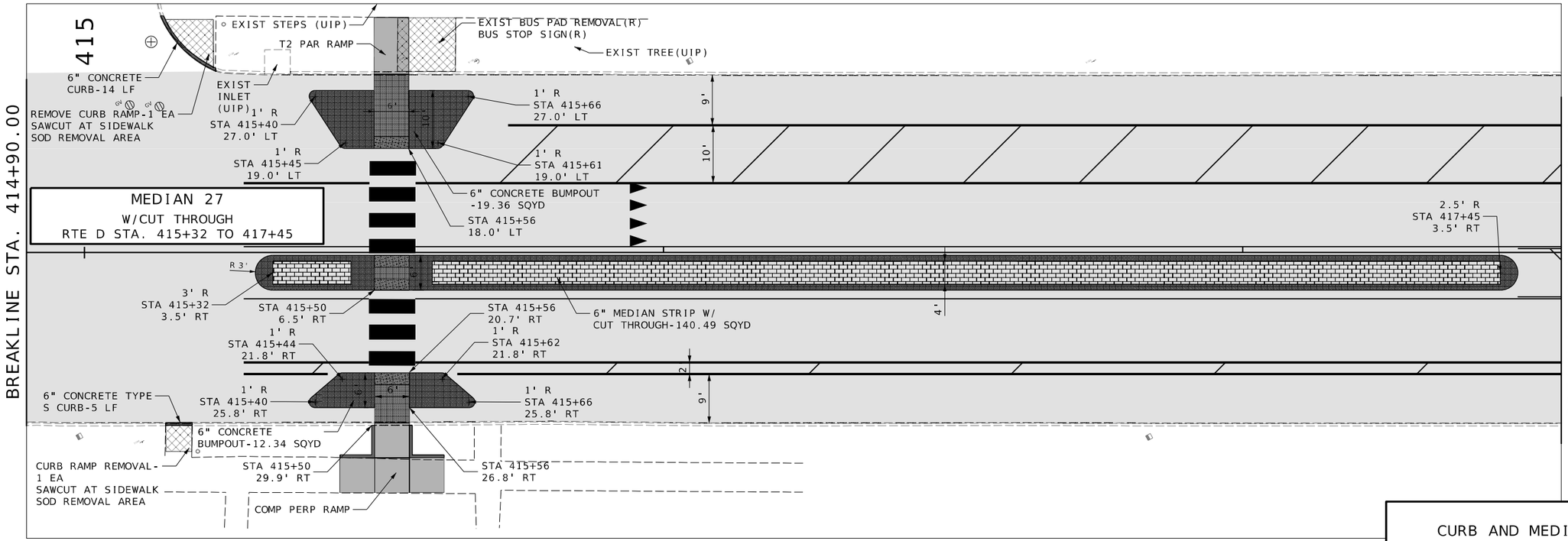
PROFESSIONAL
ENGINEER
PE-2018040668





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NOTES:
FIELD VERIFY EXISTING JOINTS FOR CURB AND DRIVEWAY REMOVAL.
REMOVE AND SALVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN
DETAIL SHEET
SHEET 19 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	70

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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REV.

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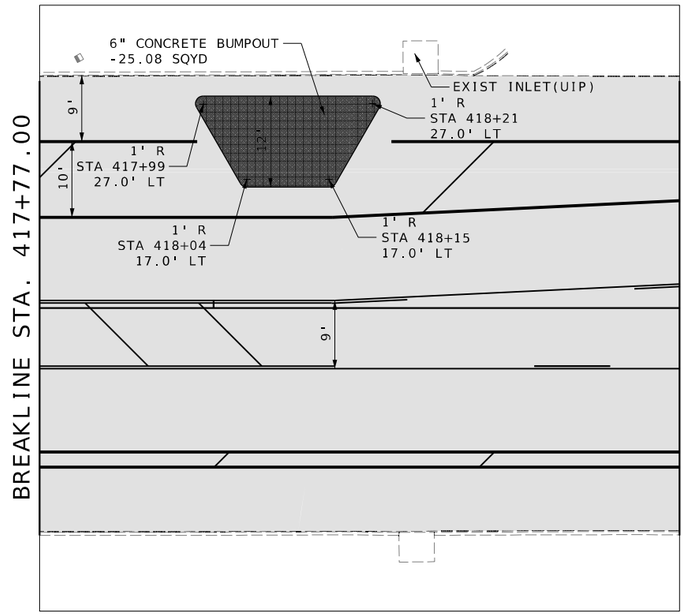

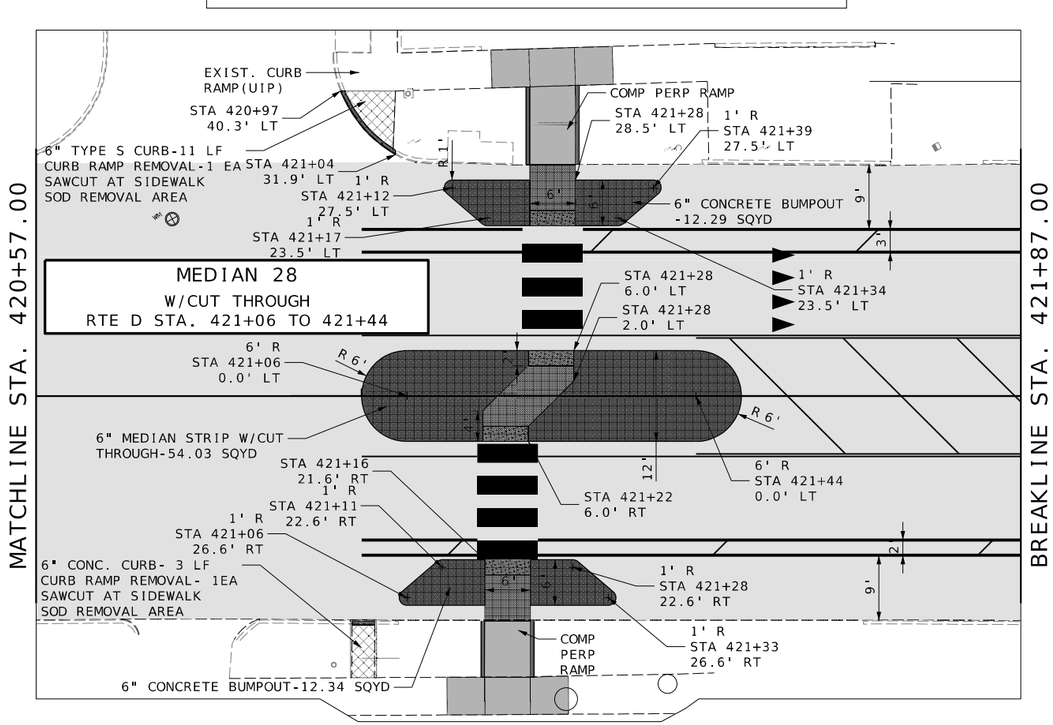

NOTES:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE AND SALAVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN
DETAIL SHEET
SHEET 20 OF 44

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NIKKI D. CONLEY
NUMBER PE-2018040668
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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	71

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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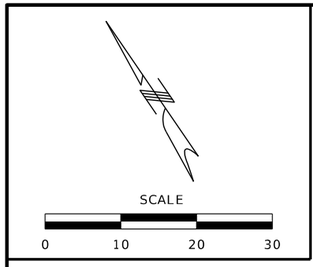

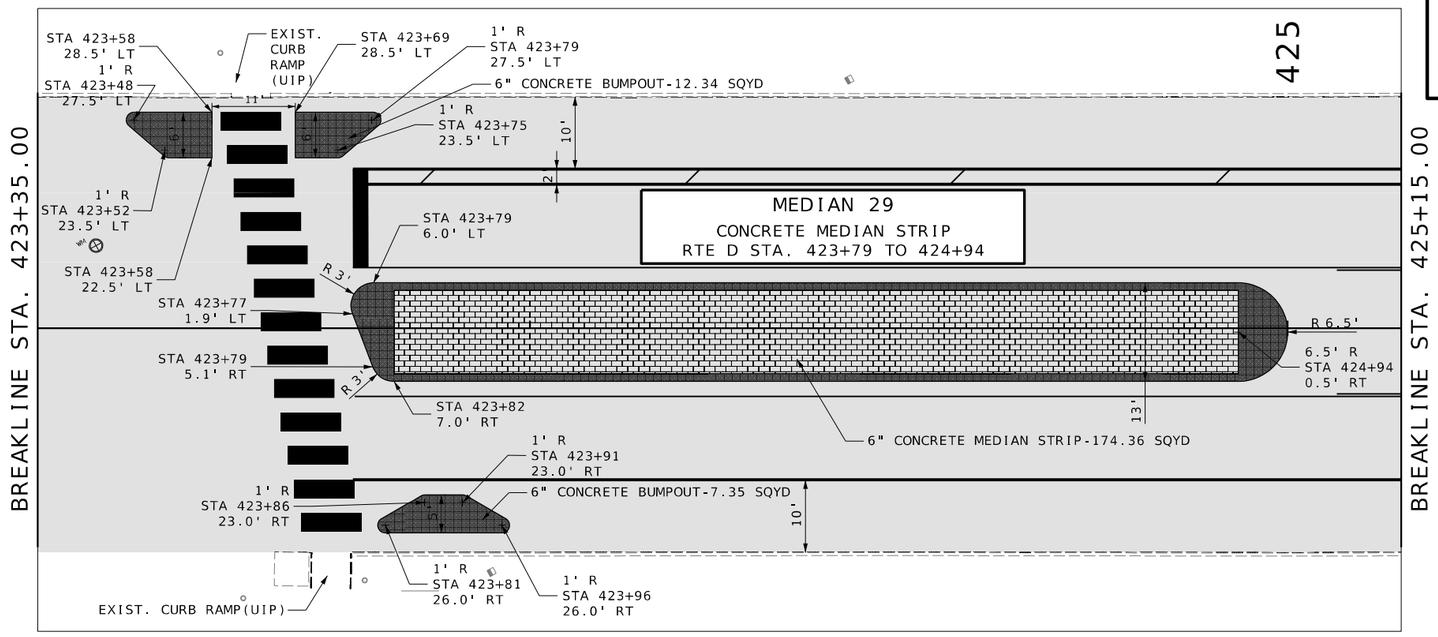

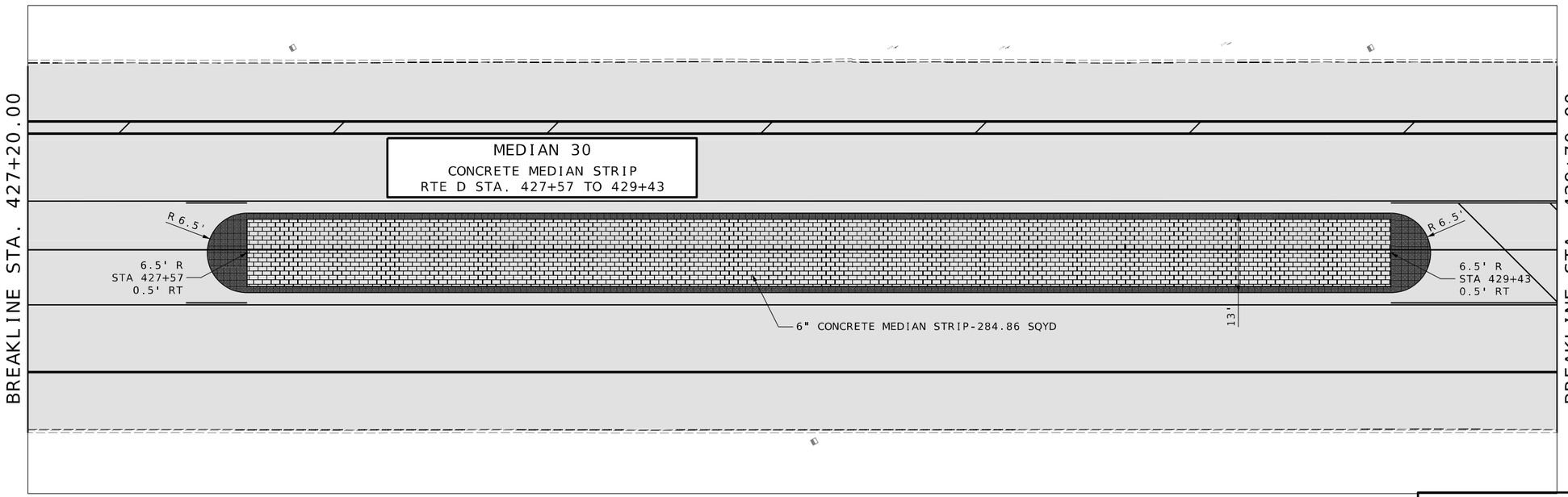

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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ENGINEER
PE-2018040668

CURB AND MEDIAN DETAIL SHEET
SHEET 21 OF 44

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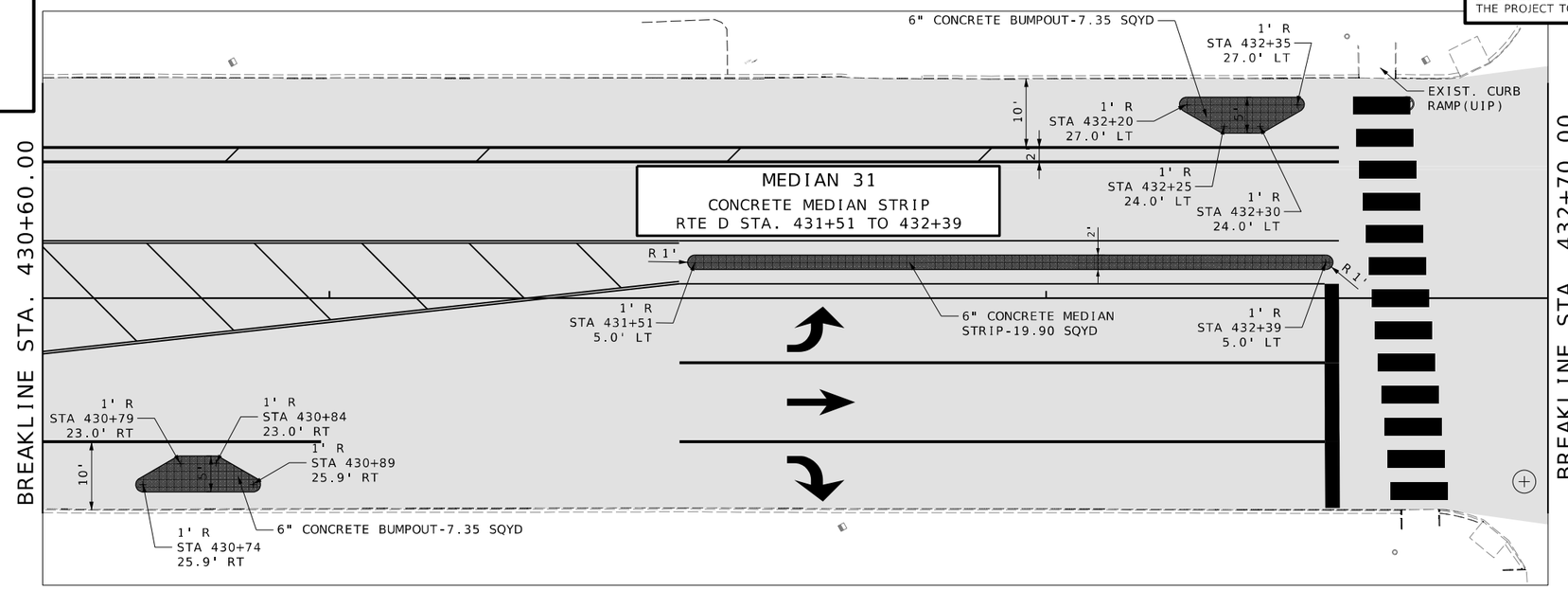

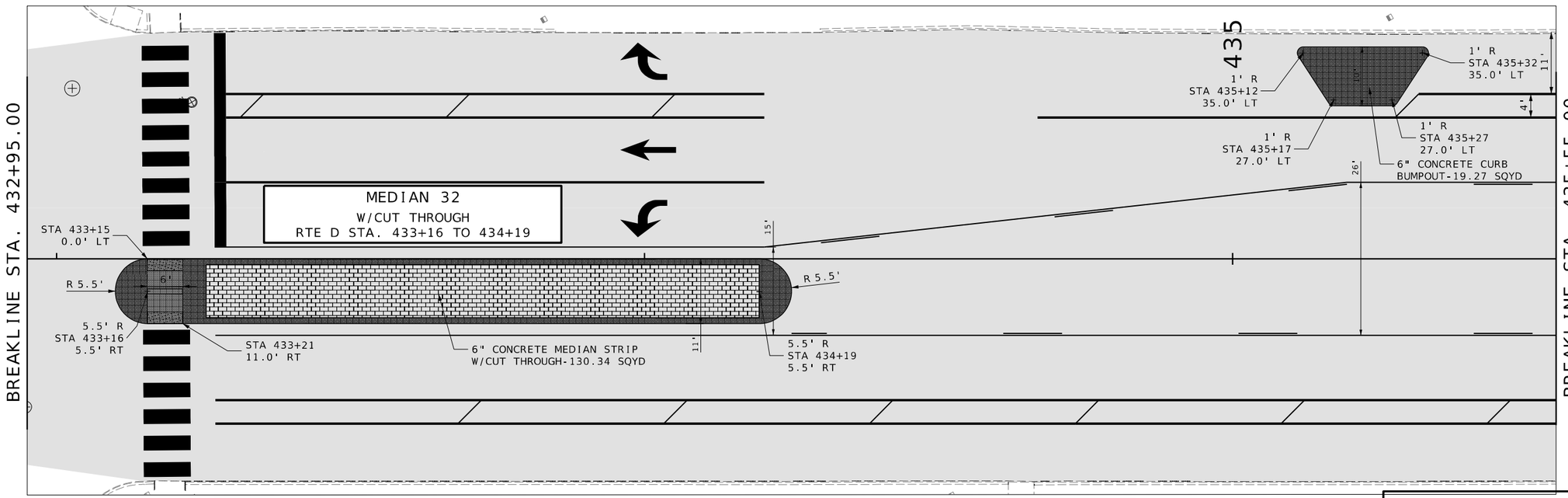

CURB AND MEDIAN DETAIL SHEET
SHEET 22 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	73

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

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PROFESSIONAL ENGINEER
PE-2018040668

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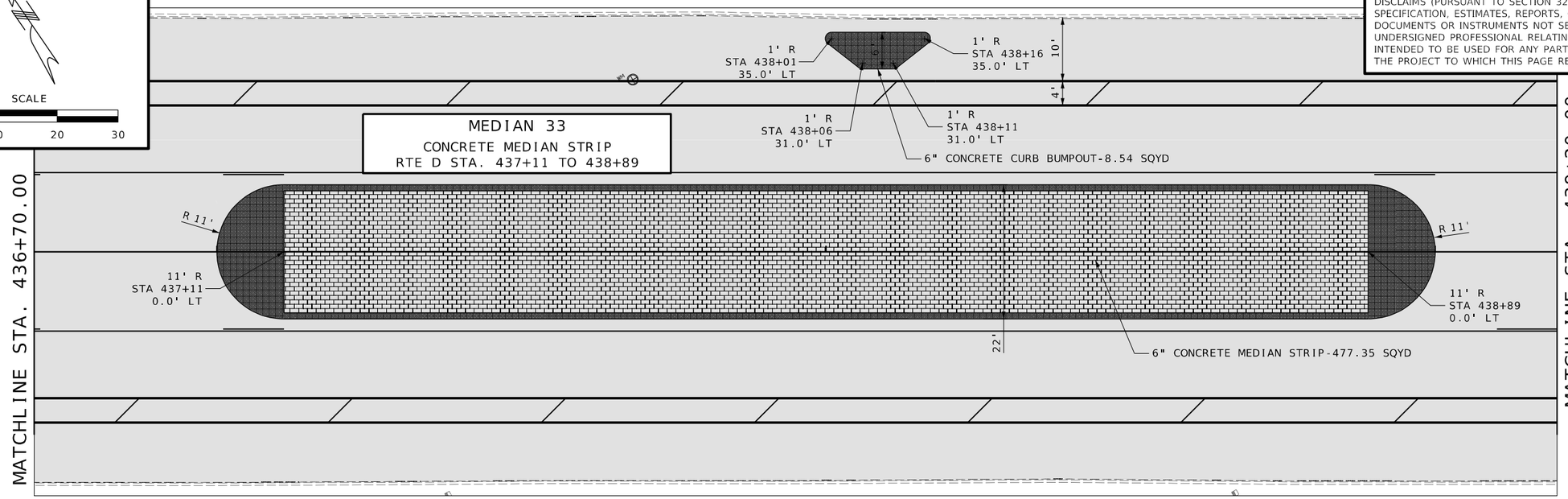

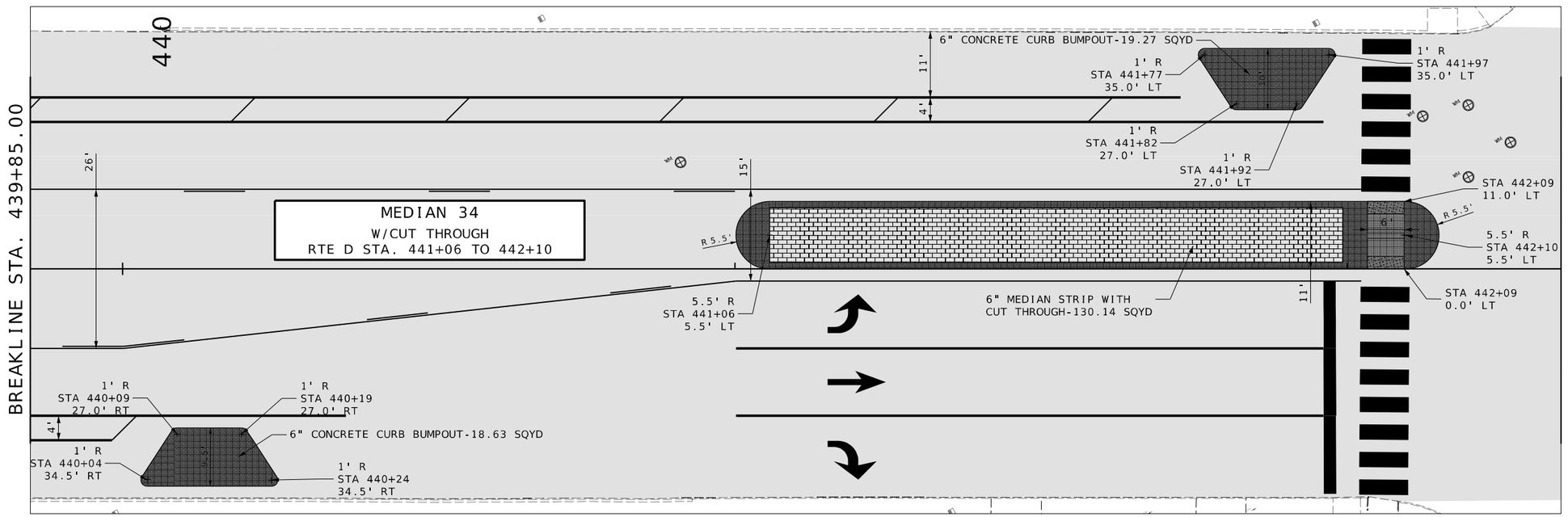

CURB AND MEDIAN
DETAIL SHEET
SHEET 23 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	74

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

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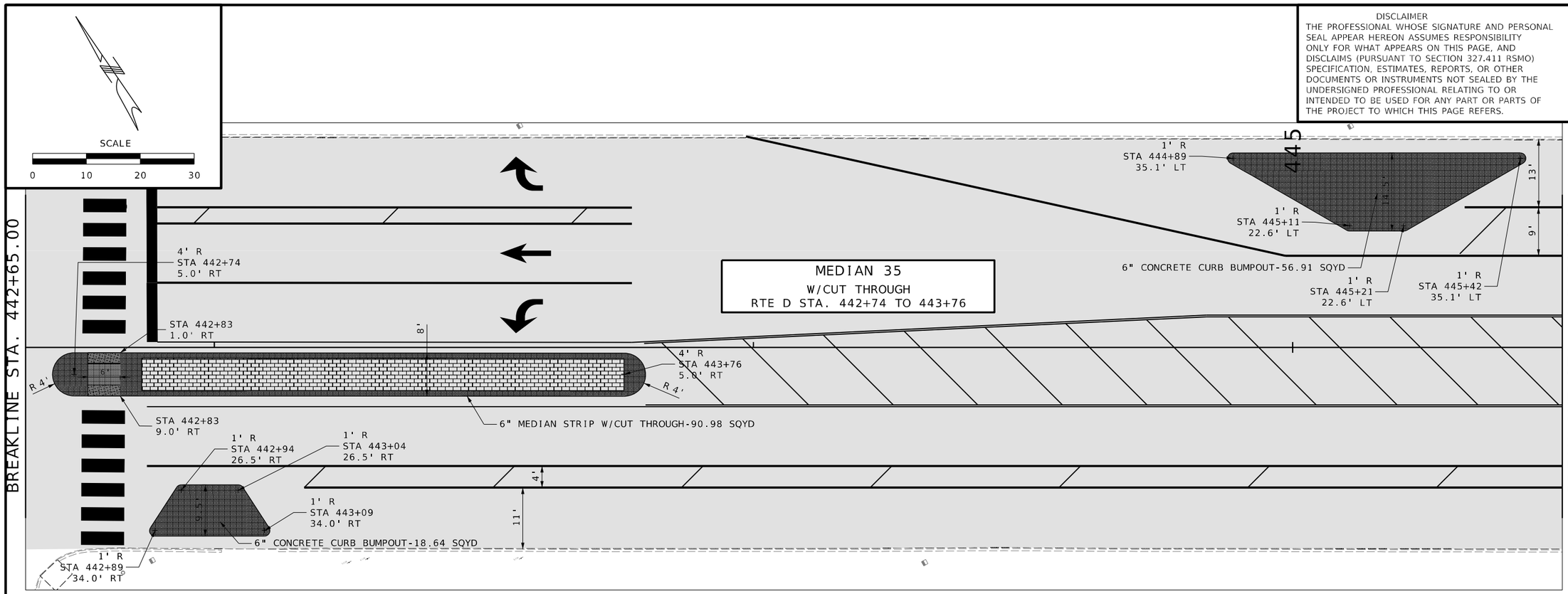

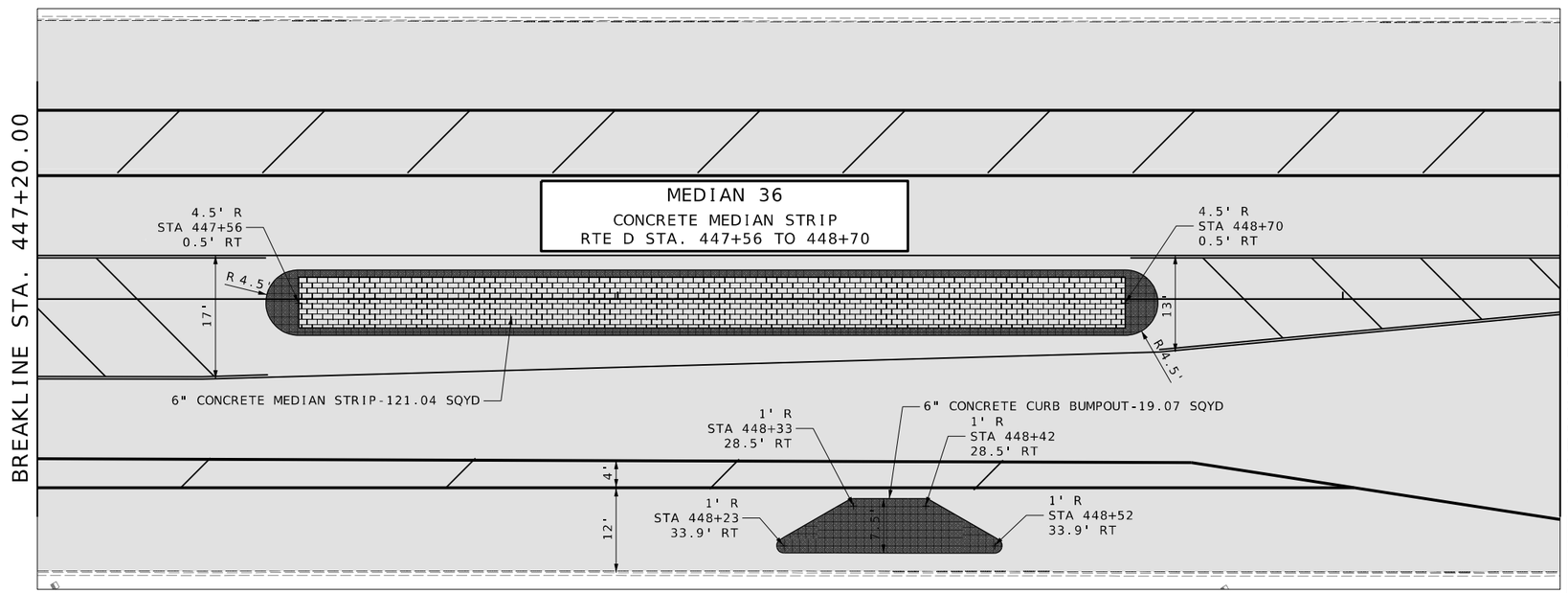

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CURB AND MEDIAN
DETAIL SHEET
SHEET 24 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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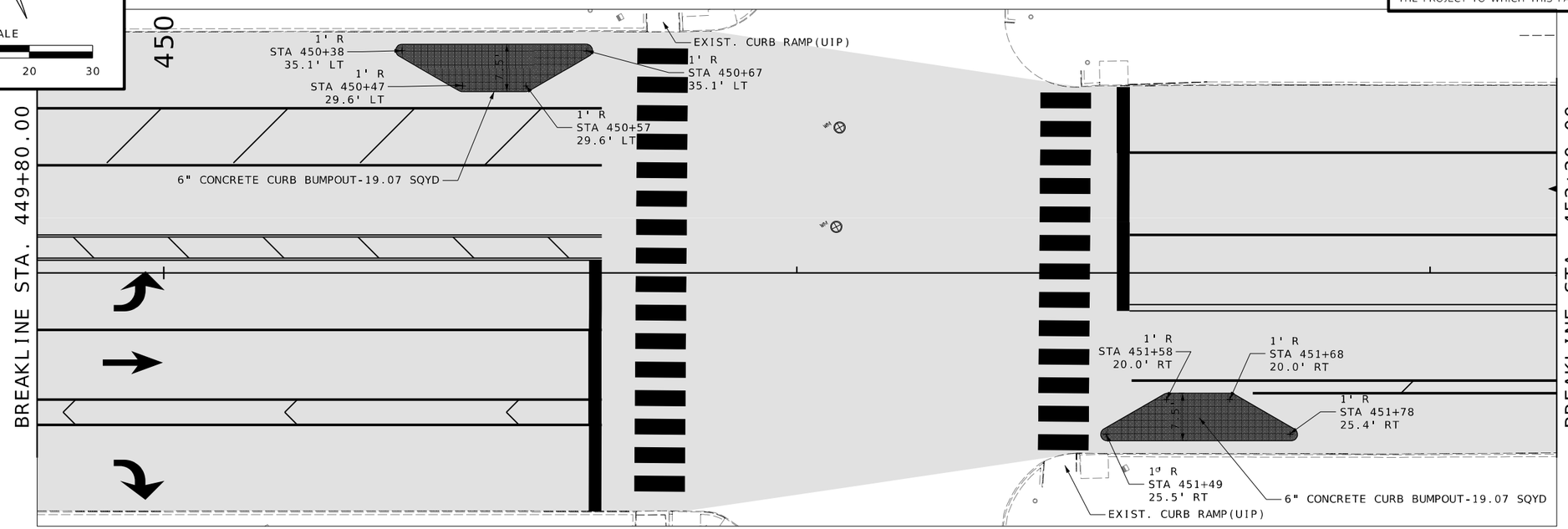

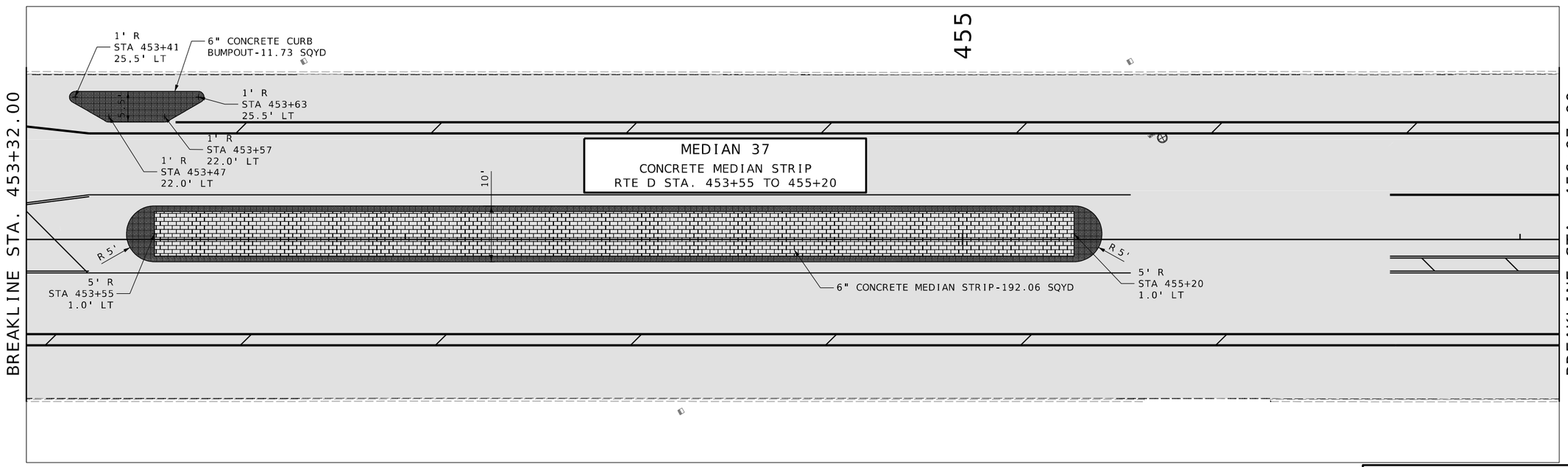

CURB AND MEDIAN
DETAIL SHEET
SHEET 25 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
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PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	76

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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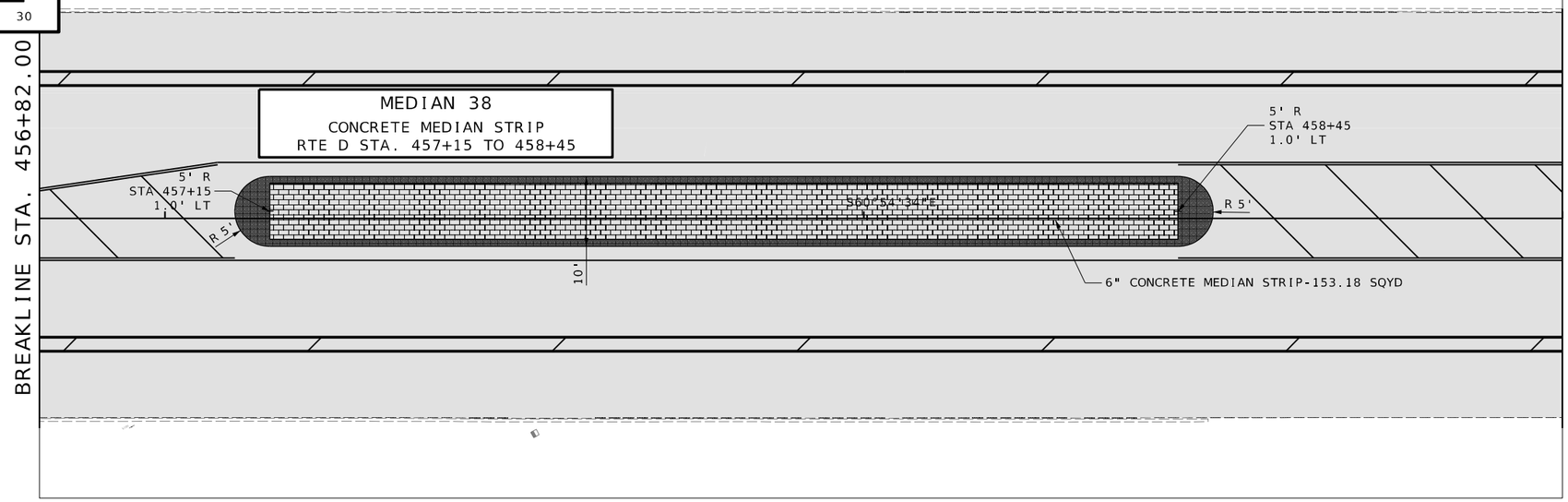

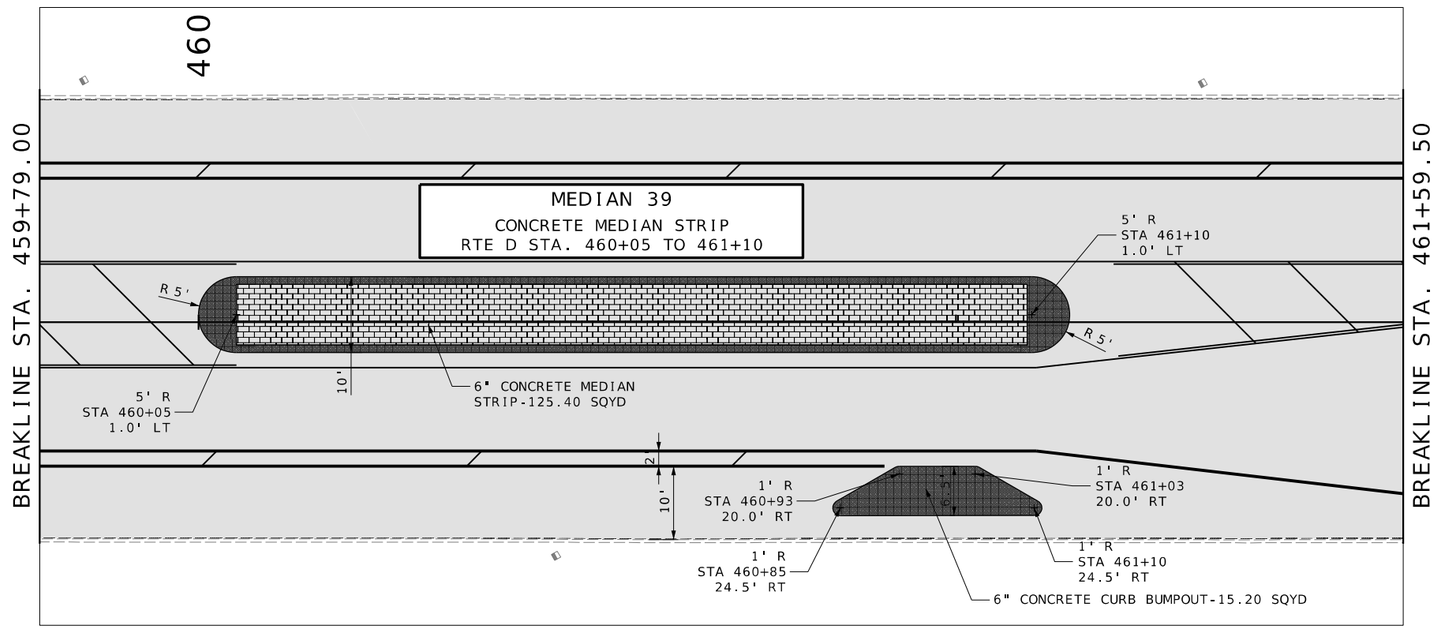

CURB AND MEDIAN
DETAIL SHEET
SHEET 26 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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D	MO
DISTRICT	SHEET NO.
SL	77

COUNTY
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SCALE
0 10 20 30

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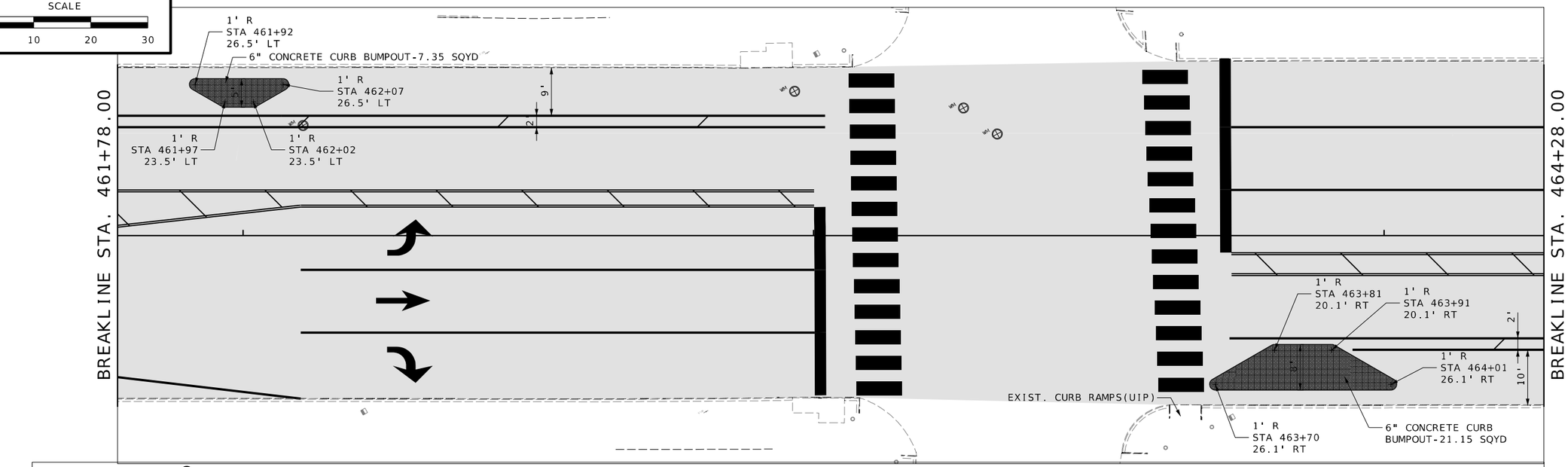

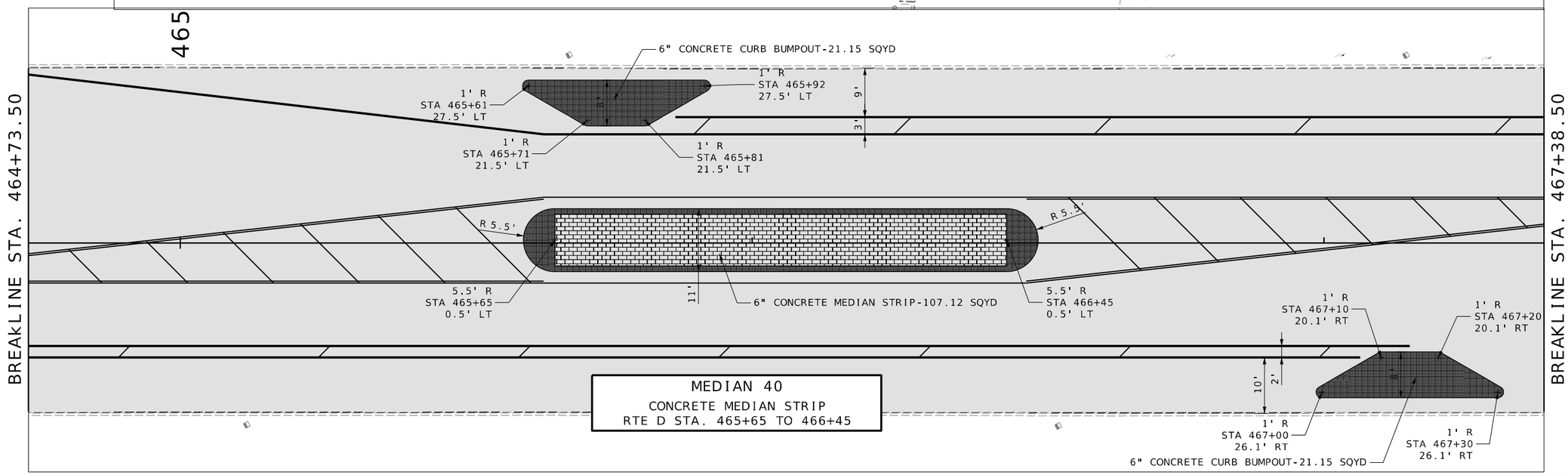

MEDIAN 40
CONCRETE MEDIAN STRIP
RTE D STA. 465+65 TO 466+45

CURB AND MEDIAN
DETAIL SHEET
SHEET 27 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	78

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	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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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

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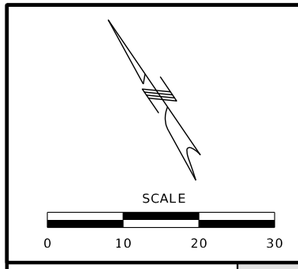

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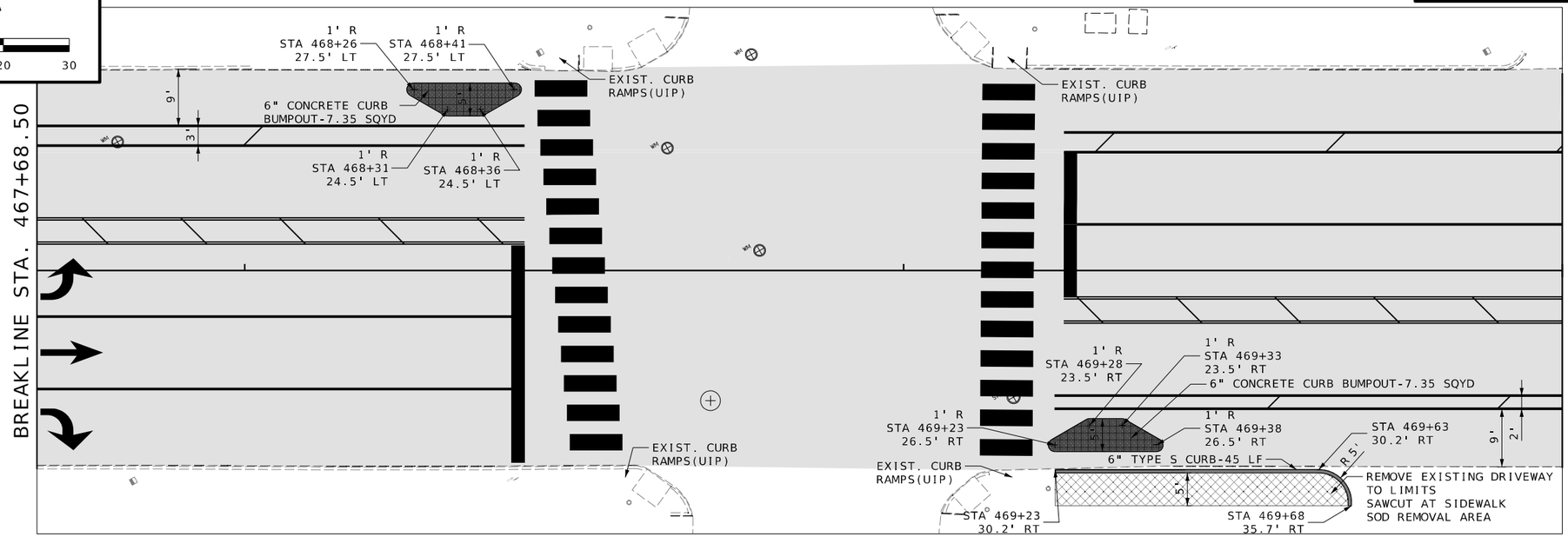

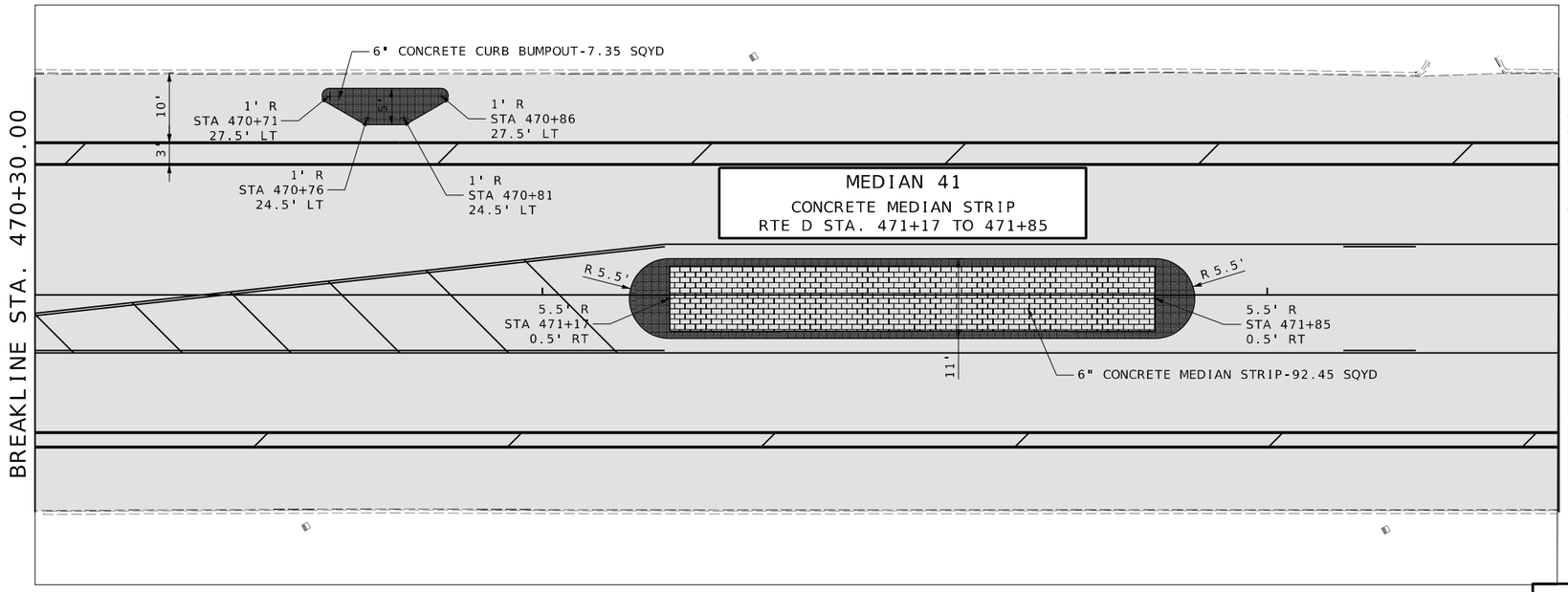

NOTE:
FIELD VERIFY EXISTING JOINTS FOR CURB AND PAVEMENT REMOVAL. REMOVE AND SALVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN
DETAIL SHEET
SHEET 28 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	79

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

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SCALE

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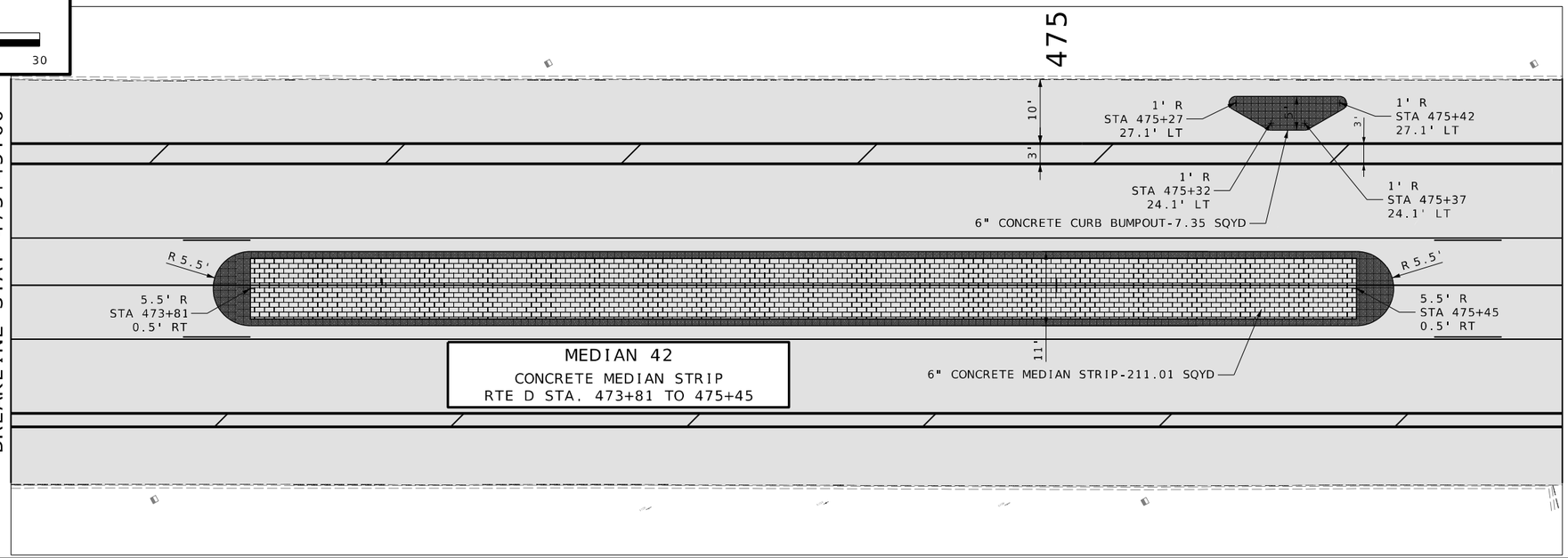

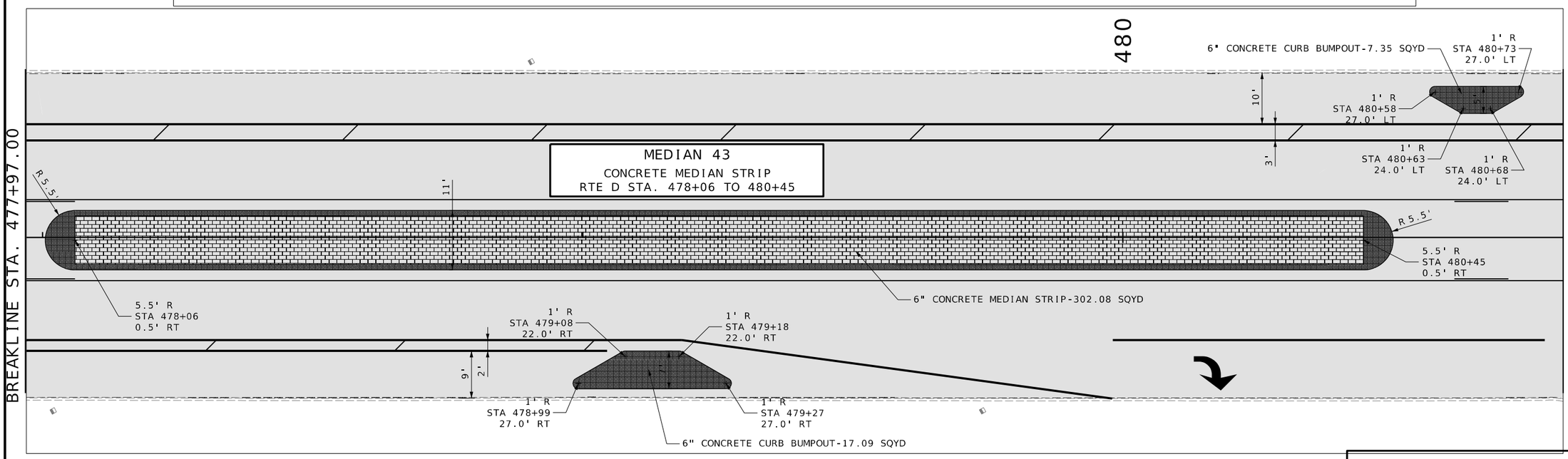

NOTE:
FIELD VERIFY EXISTING JOINTS FOR CURB AND DRIVEWAY REMOVAL.

CURB AND MEDIAN
DETAIL SHEET
SHEET 29 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	80

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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

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ENGINEER
PE-2018040668

REV.

SCALE

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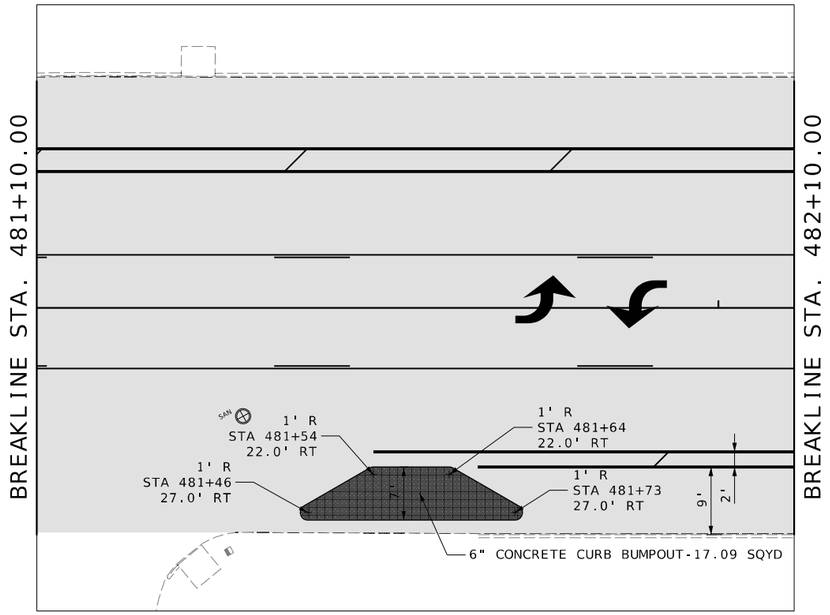

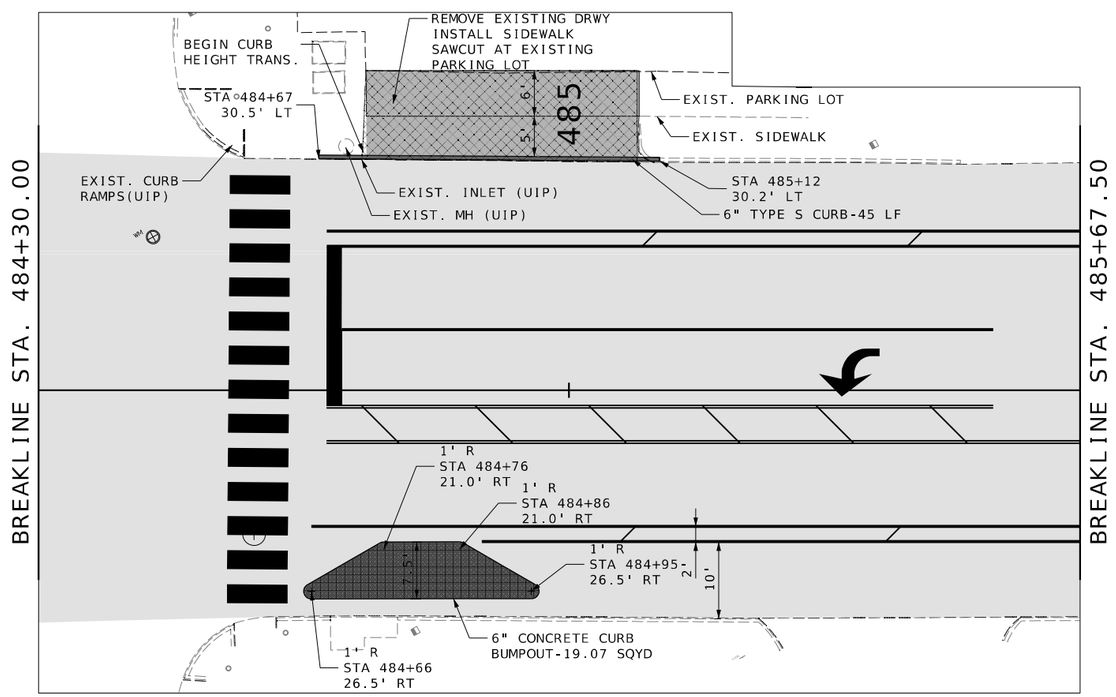

NOTE:
FIELD VERIFY EXISTING JOINTS FOR CURB, SIDEWALK, AND DRIVEWAY REMOVALS.

CURB AND MEDIAN DETAIL SHEET
SHEET 30 OF 44

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	81

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION	REV.

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

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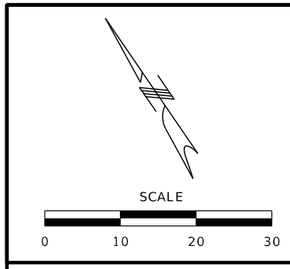

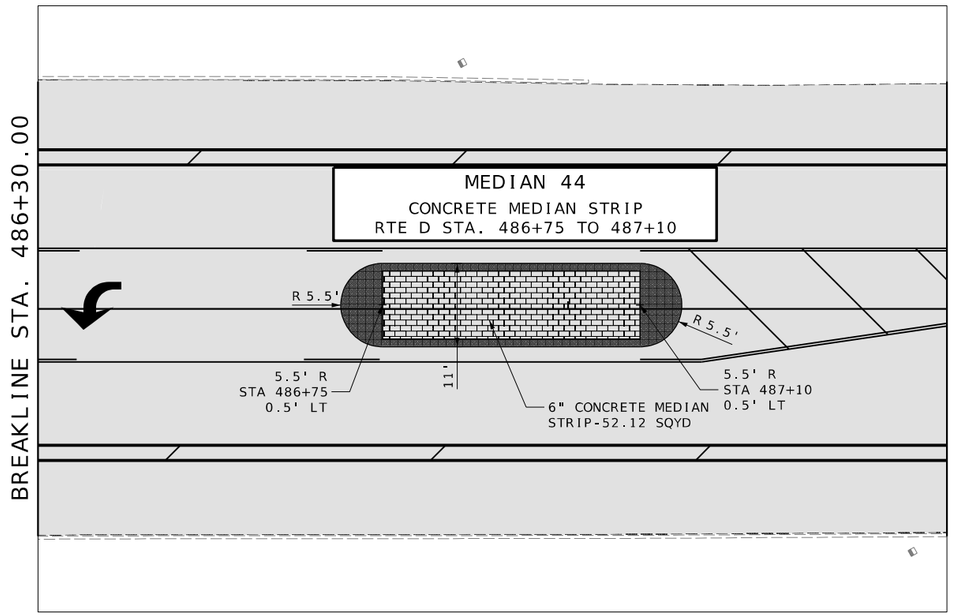

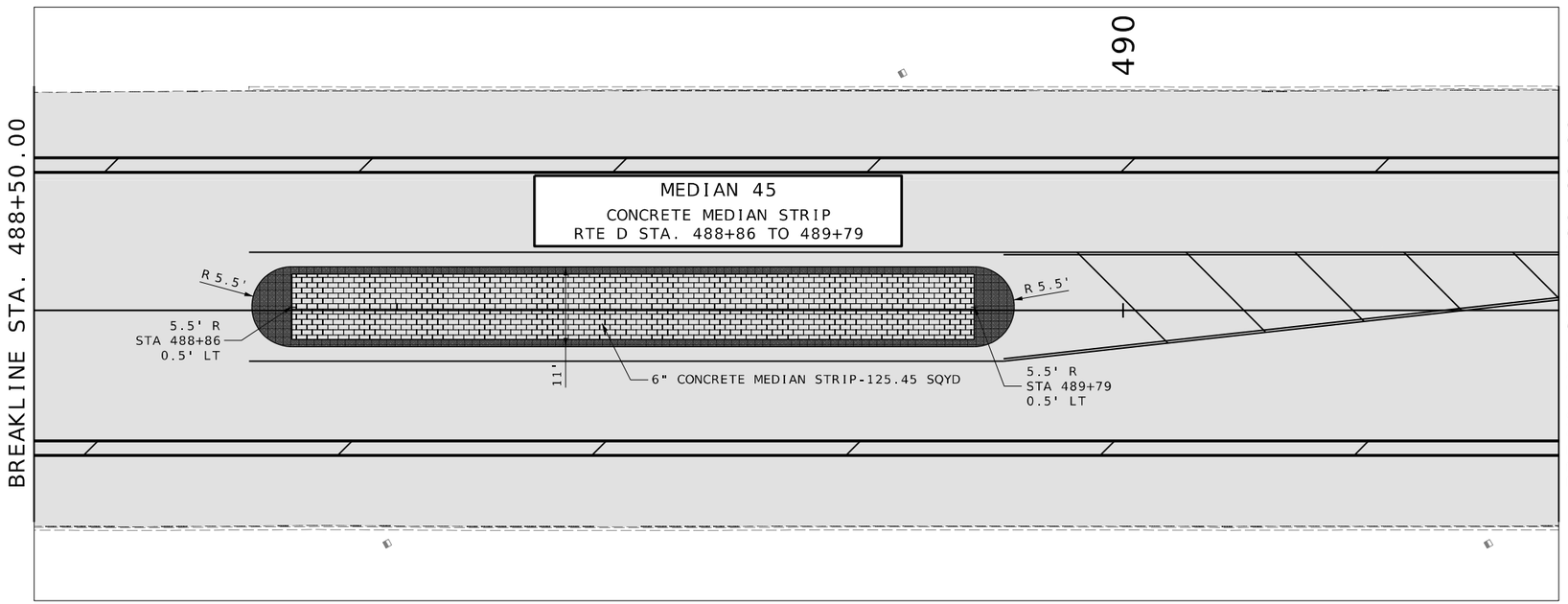

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	82

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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ENGINEER
PE-2018040668

CURB AND MEDIAN
DETAIL SHEET
SHEET 31 OF 44

SCALE
0 10 20 30

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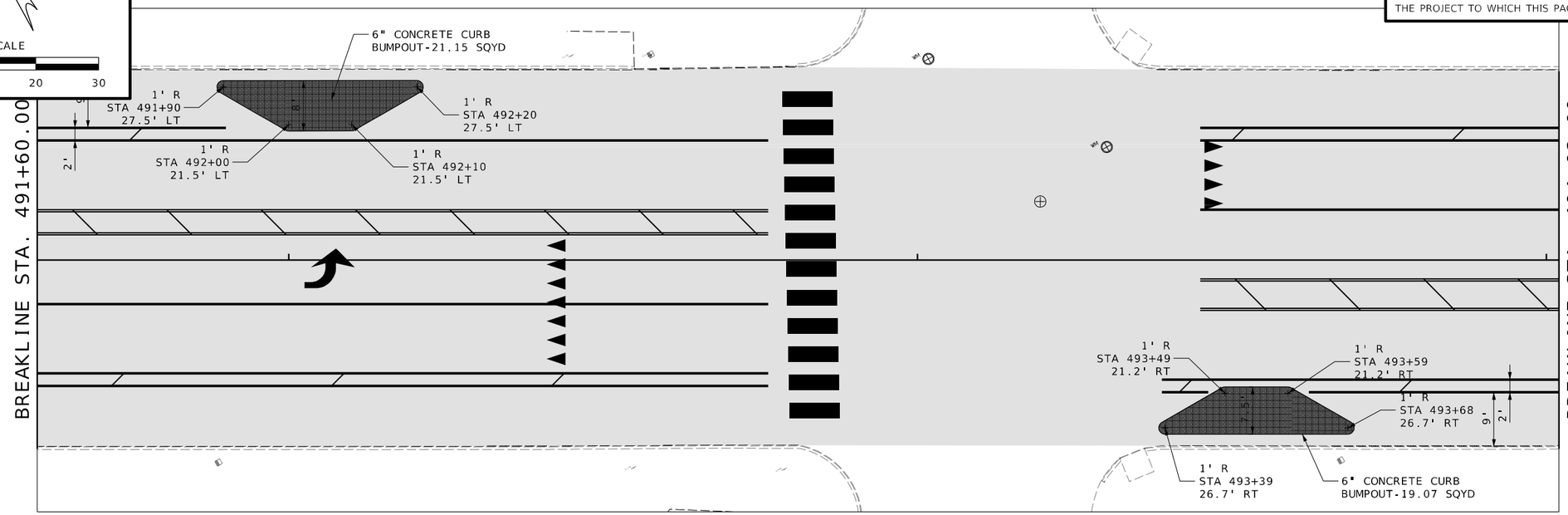

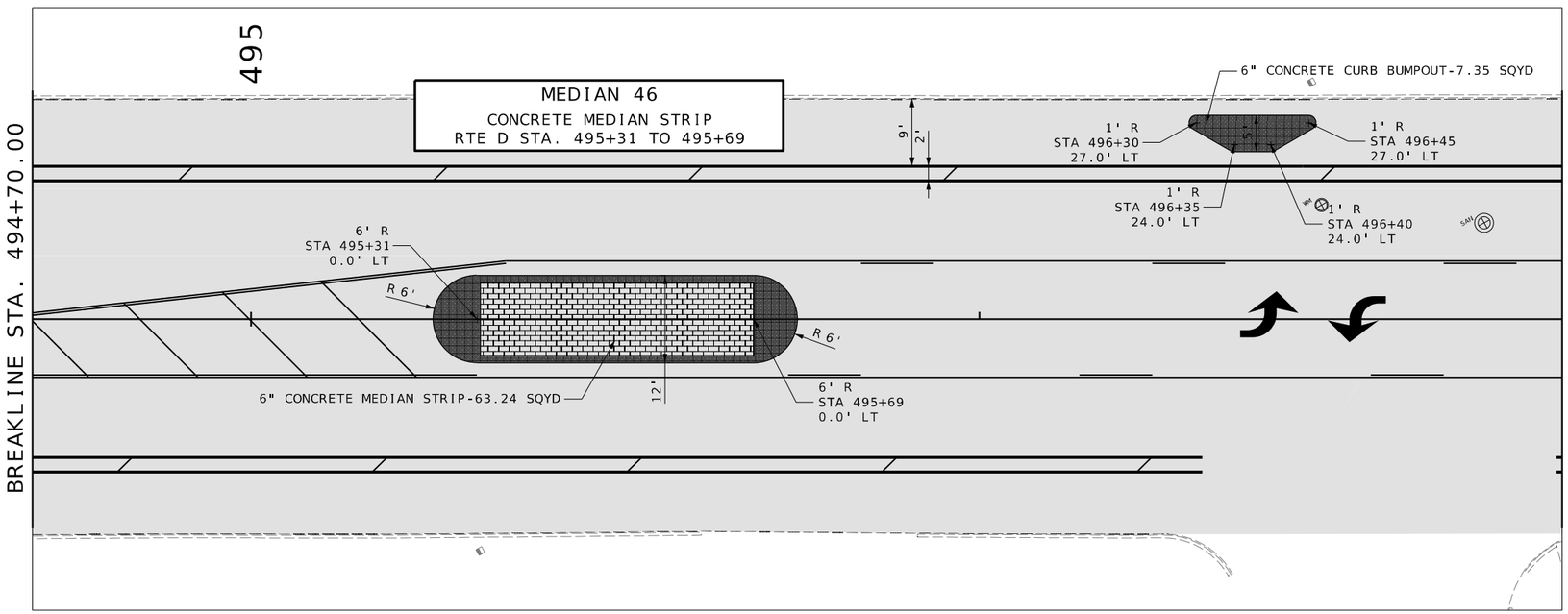

CURB AND MEDIAN
DETAIL SHEET
SHEET 32 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	83

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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ENGINEER
PE-2018040668

SCALE

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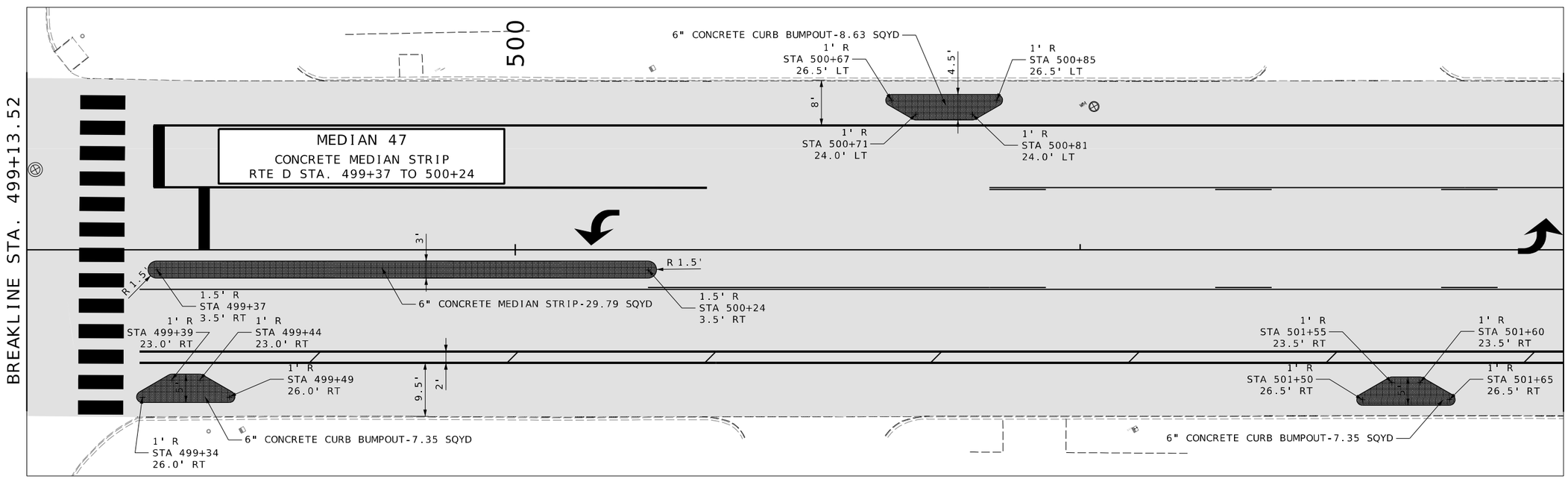

CURB AND MEDIAN
DETAIL SHEET
SHEET 33 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	84

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

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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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

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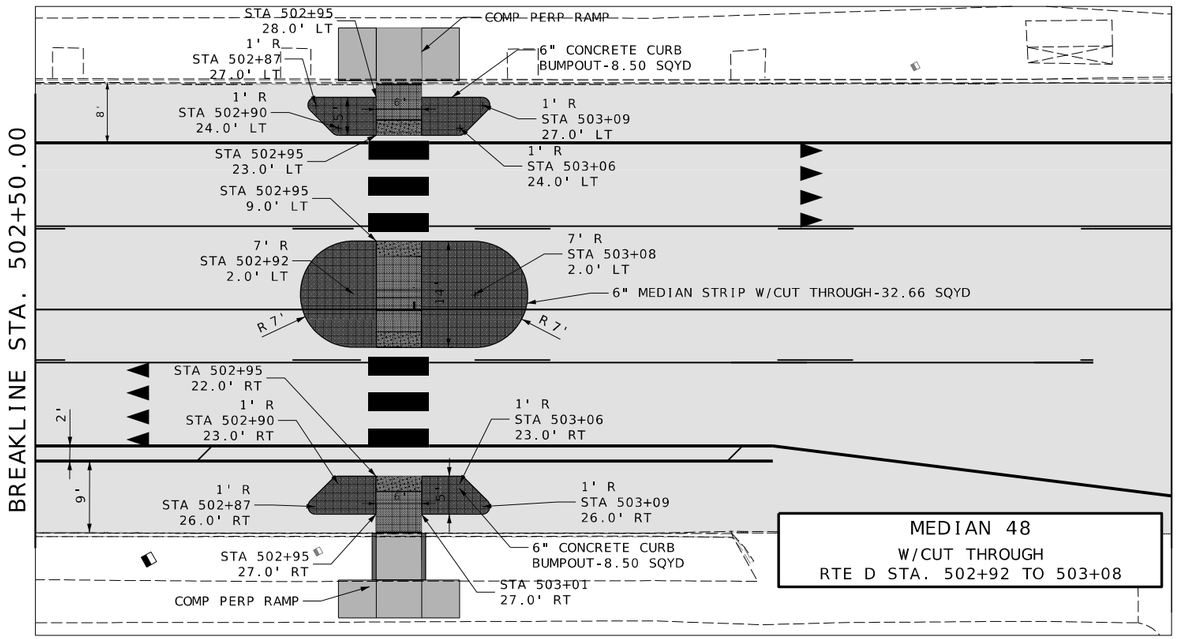
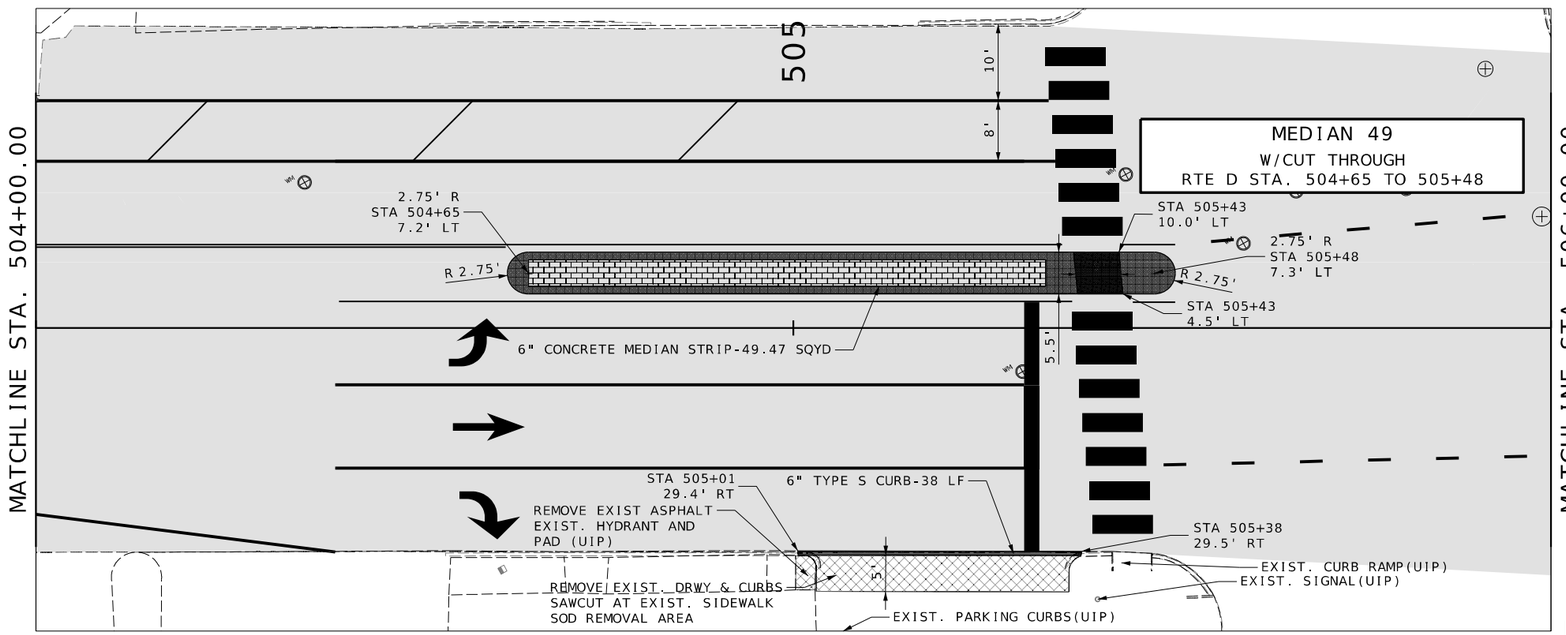
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

REV.

SCALE
0 10 20 30





NOTE:
TYPICAL RADII OF CONCRETE CURB BUMPOUT IS 1' UNLESS SPECIFIED OTHERWISE.

FIELD VERIFY EXISTING JOINTS FOR CUB AND DRIVEWAY REMOVAL.

REMOVE AND SALVAGE EXISTING GRANITE CURBS.

CURB AND MEDIAN
DETAIL SHEET
SHEET 34 OF 44

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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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PROFESSIONAL
ENGINEER
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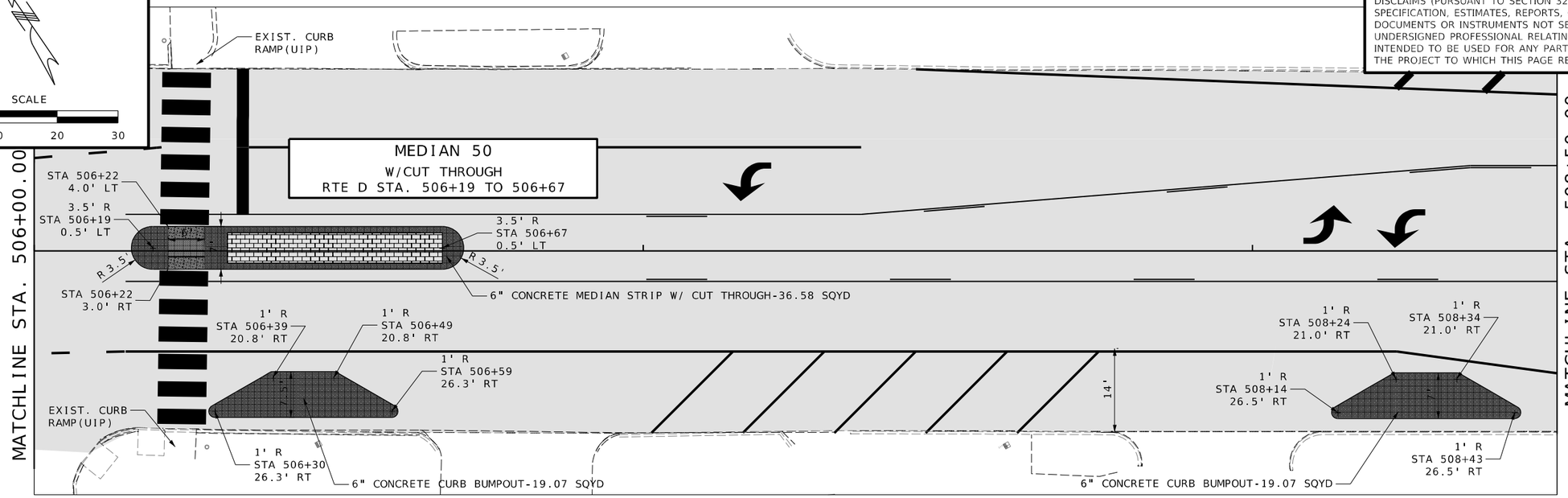

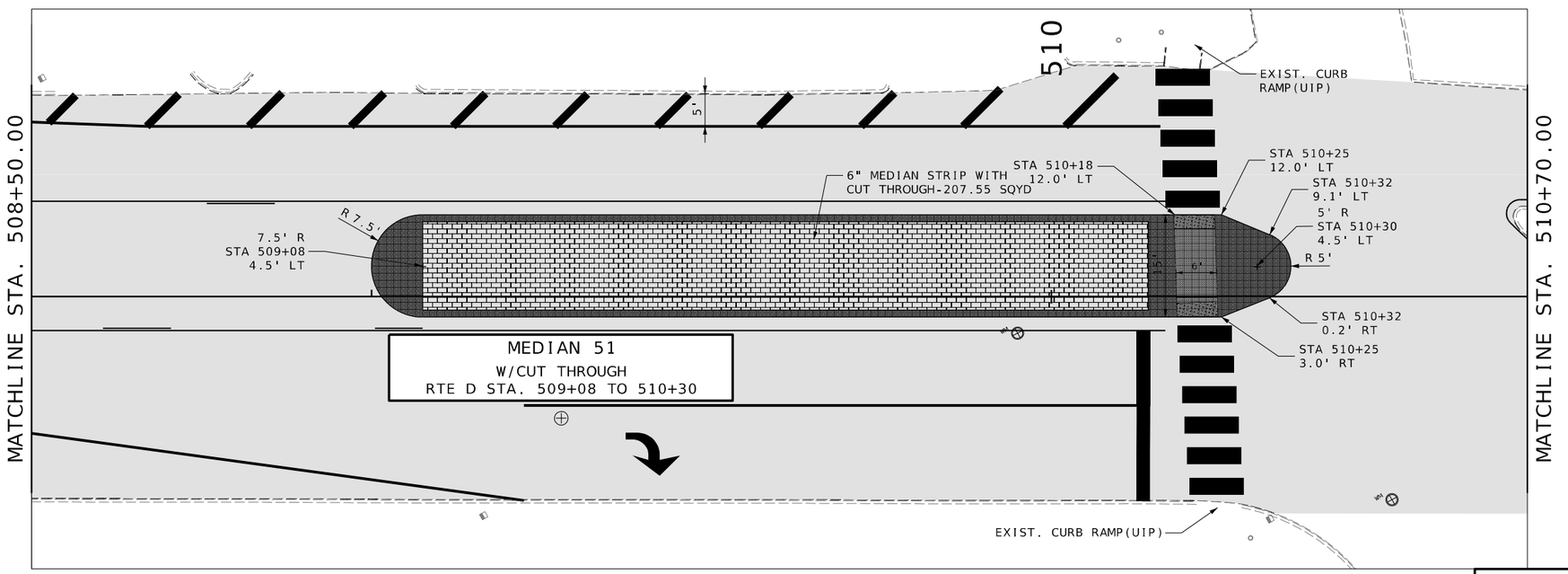

CURB AND MEDIAN
DETAIL SHEET
SHEET 35 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	86

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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
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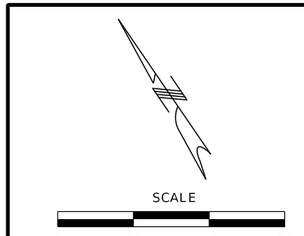
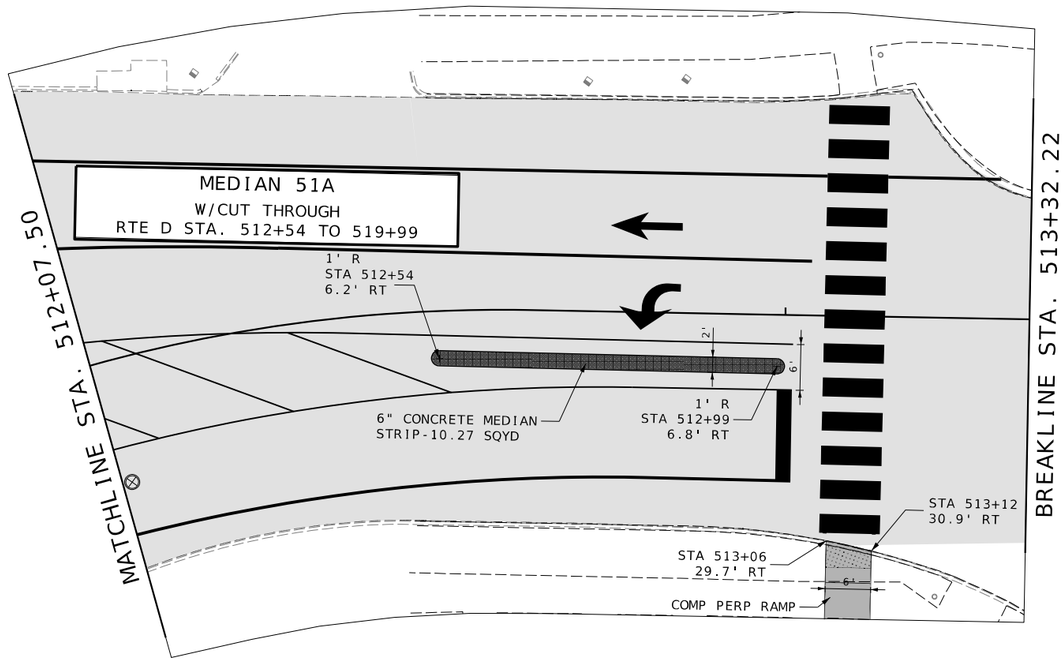
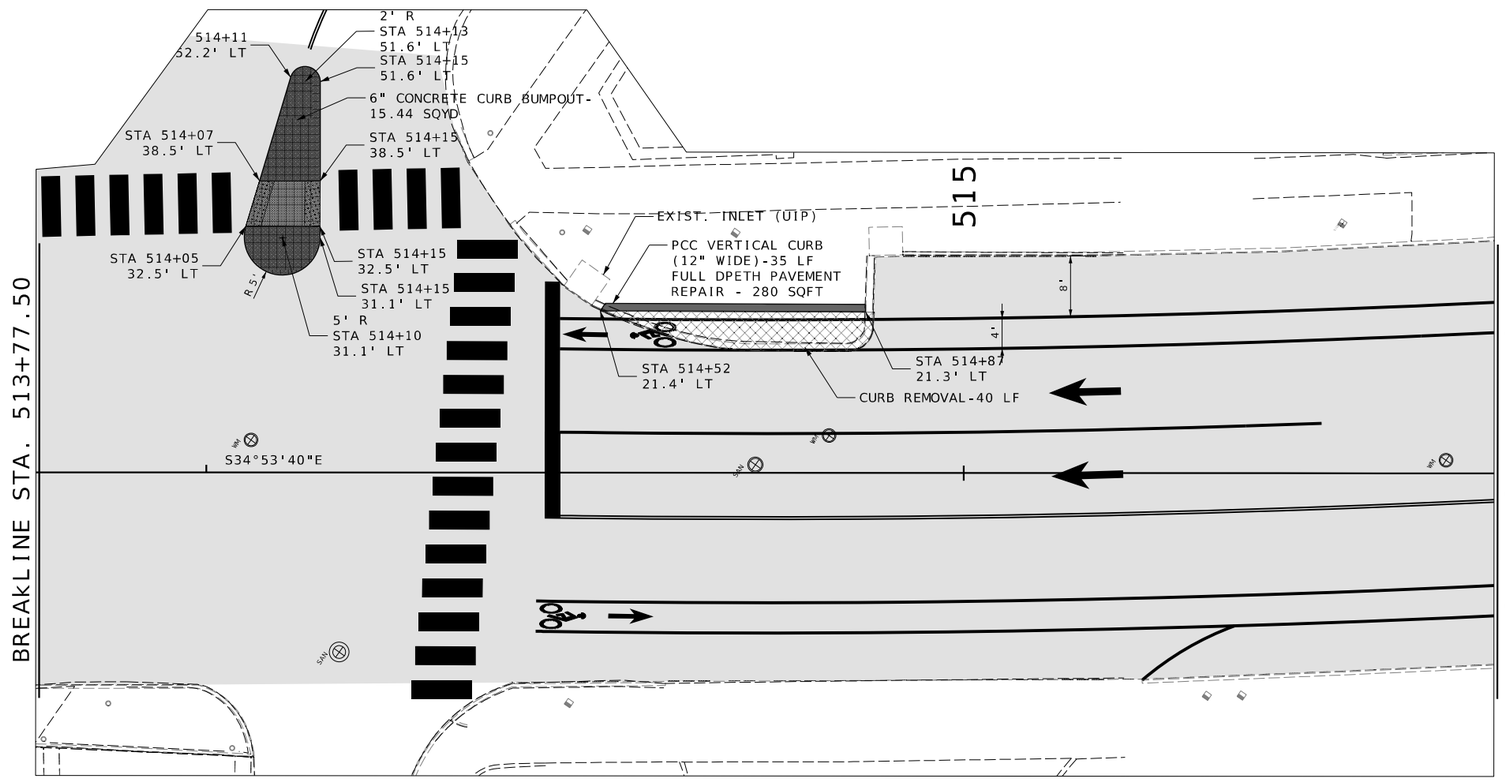
PROFESSIONAL
ENGINEER
PE-2018040668

REV.







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NOTE:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.
FIELD VERIFY CURB INLET LIMITS FOR CURB REMOVAL.
REMOVE CURBS TO JOINTS.

CURB AND MEDIAN DETAIL SHEET
SHEET 36 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION	REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

SCALE

0 10 20 30

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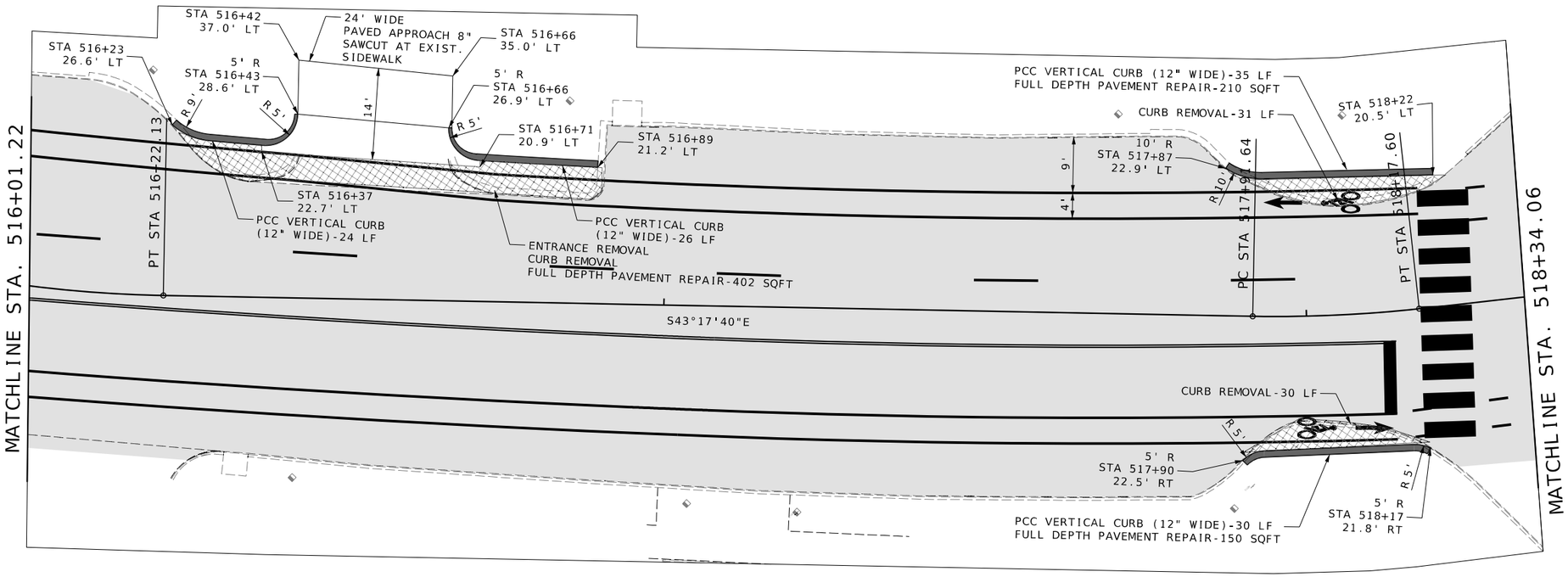

NOTE:
FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.
REMOVE CURBS TO JOINTS.
FIELD VERIFY EXISTING CURB RAMP LIMITS.

CURB AND MEDIAN DETAIL SHEET
SHEET 37 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	88

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668

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

REV.

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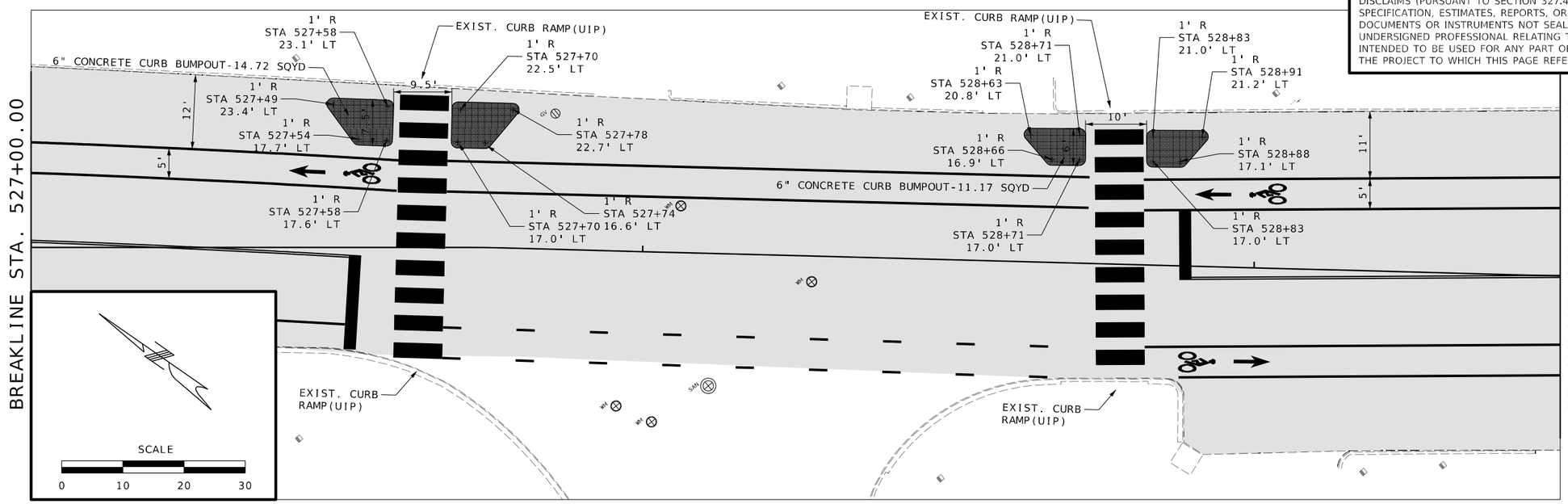

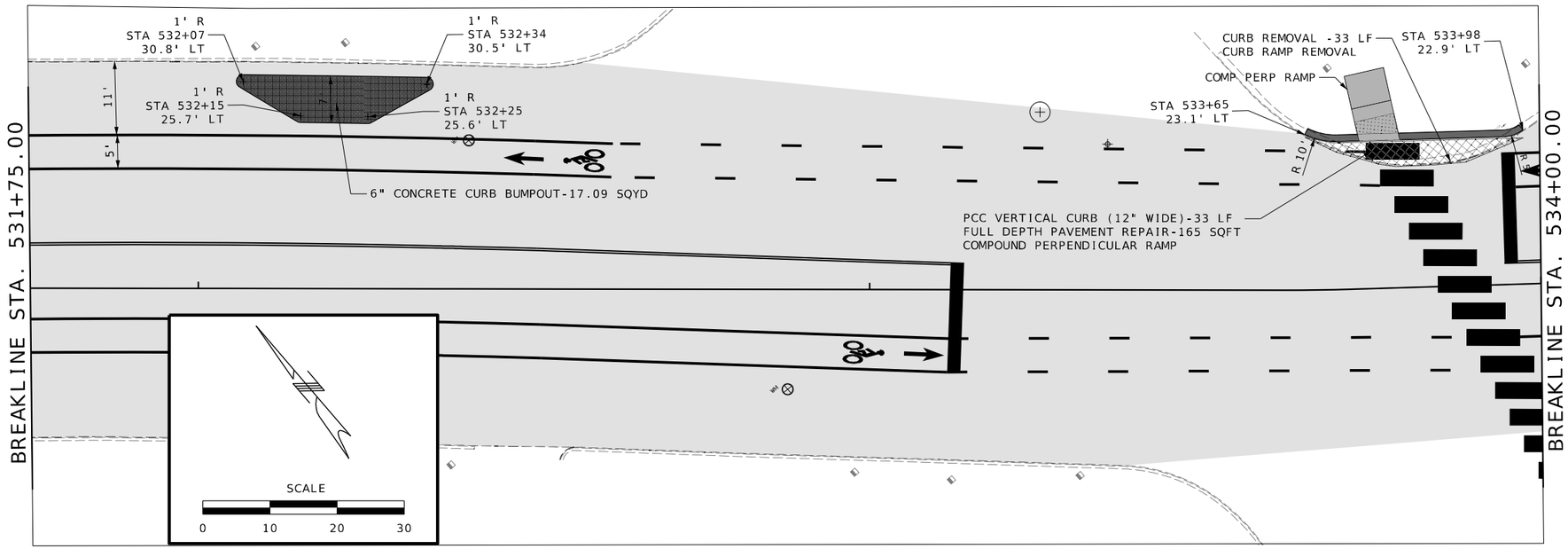

NOTES:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE CURBS TO JOINTS.

PROPOSED FACE OF CURB 1' MINIMUM FROM PROPOSED BIKE LANE PAVEMENT MARKING.

CURB AND MEDIAN DETAIL SHEET
SHEET 38 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	89

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	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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16305 SWINGLEY RIDGE RD
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

c:\bms\gba-pw-01\amber peterein\dms23372\052-095_SS01-44_J6S3438_i10_Medians.dgn 10:58:55 AM 1/30/2026

SCALE

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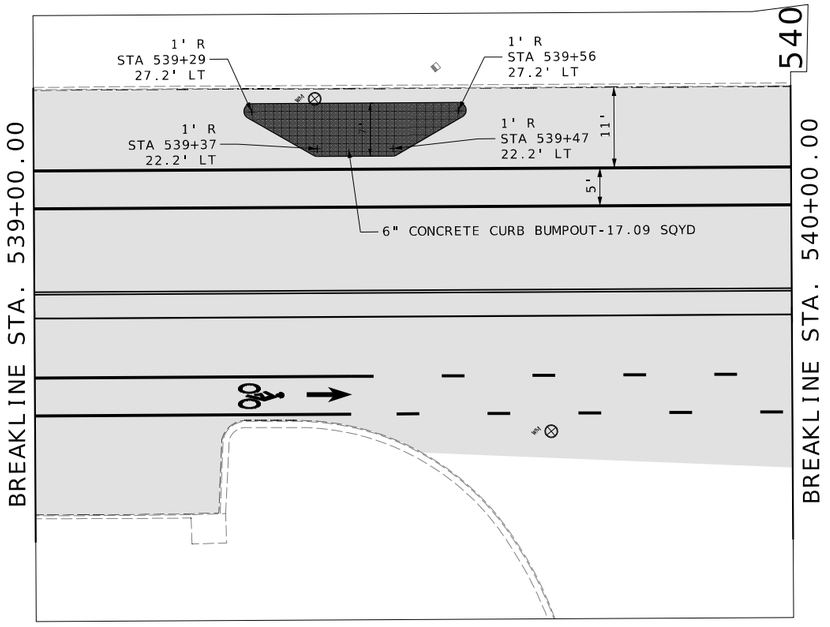

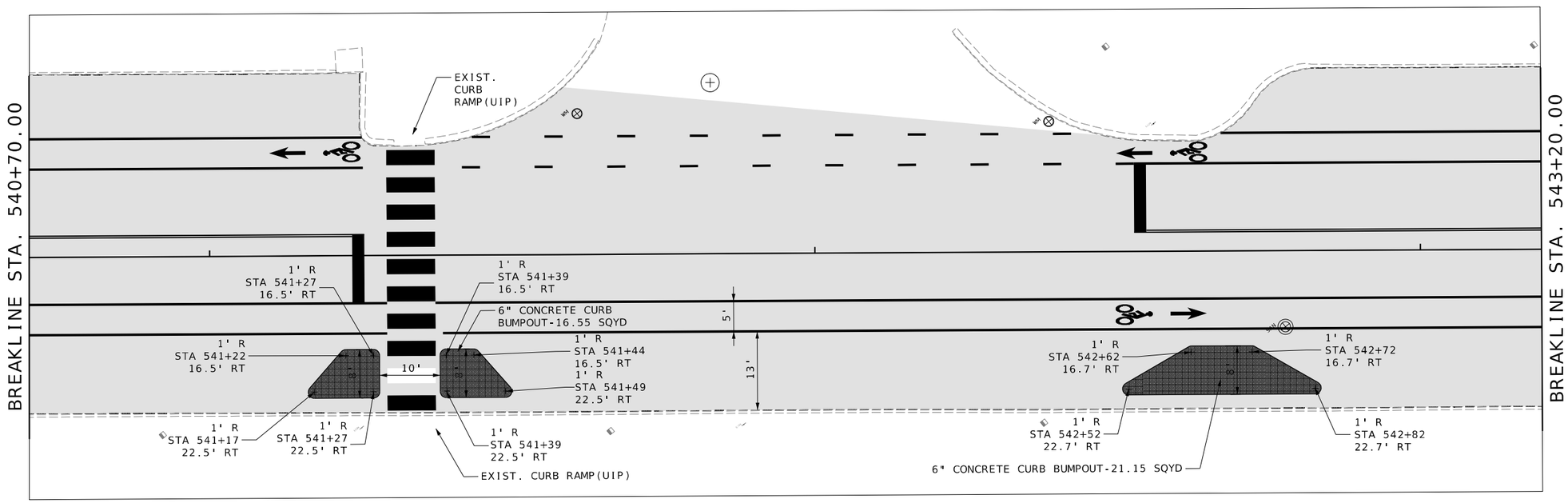

NOTE:

FIELD VERIFY EXISTING CURB RAMPS TO ALIGN CROSSWALK AND CONCRETE BUMPOUTS.

CURB AND MEDIAN DETAIL SHEET
SHEET 39 OF 44

DISCLAIMER
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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	90

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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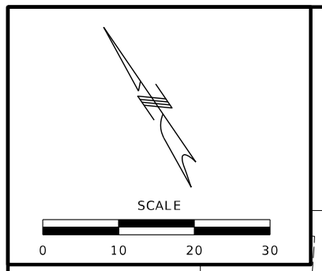
ENGINEER
PE-2018040668



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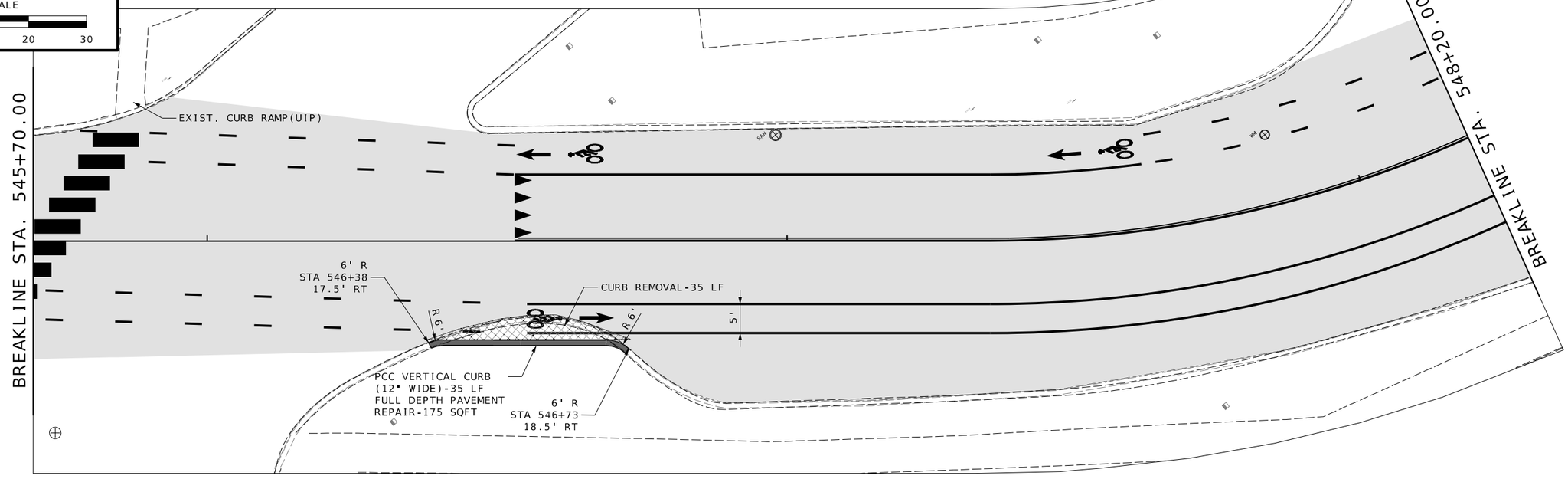

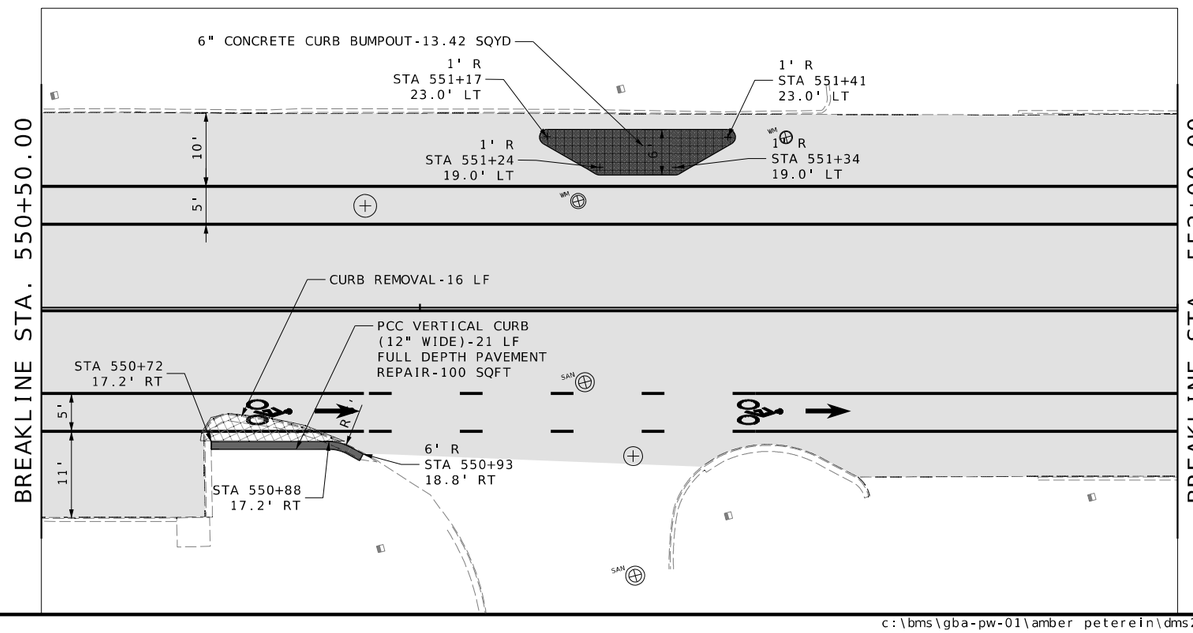

NOTES:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE CURB TO JOINTS.

PROPOSED FACE OF CURB 1' MINIMUM FROM PROPOSED BIKE LANE PAVEMENT MARKING.

CURB AND MEDIAN DETAIL SHEET
SHEET 40 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	91

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

REV.

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SCALE

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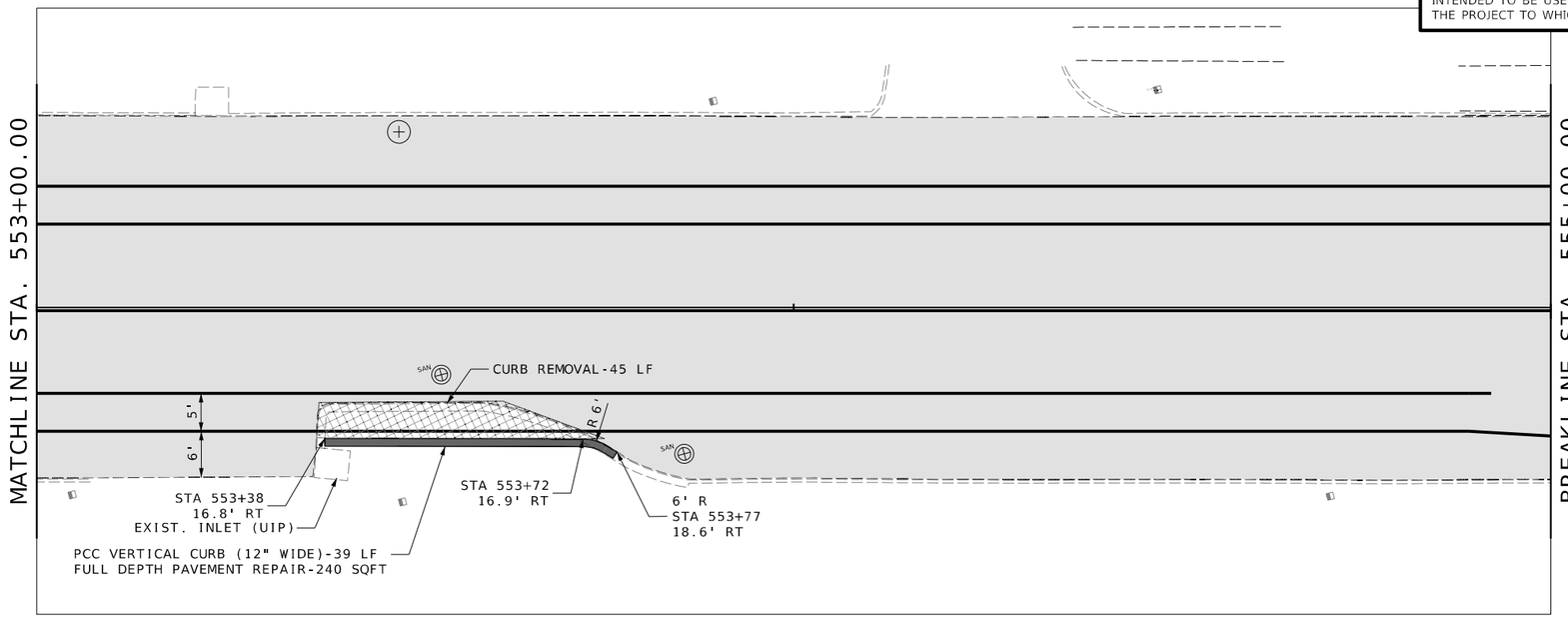

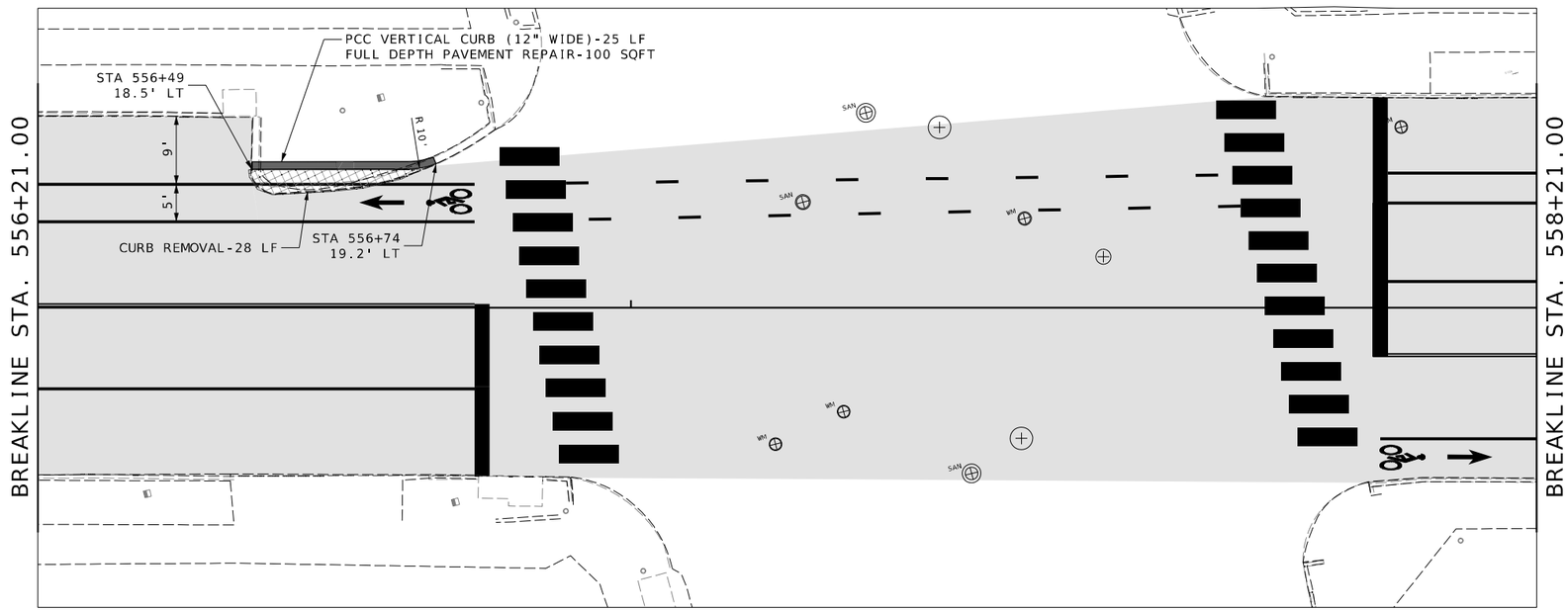

NOTES:

FIELD VERIFY EXISTING JOINTS FOR CURB REMOVAL.

REMOVE CURBS TO JOINTS.

PROPOSED FACE OF CURB 1' MINIMUM FROM PROPOSED BIKE LANE PAVEMENT MARKING.

CURB AND MEDIAN DETAIL SHEET
SHEET 41 OF 44

STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	92

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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)

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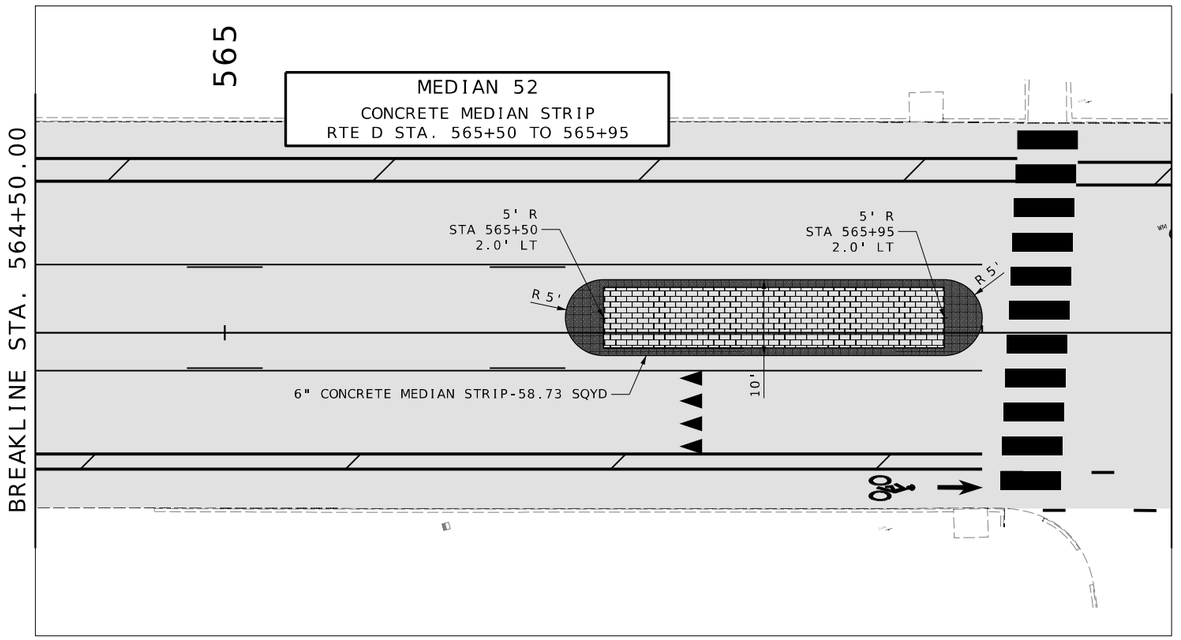
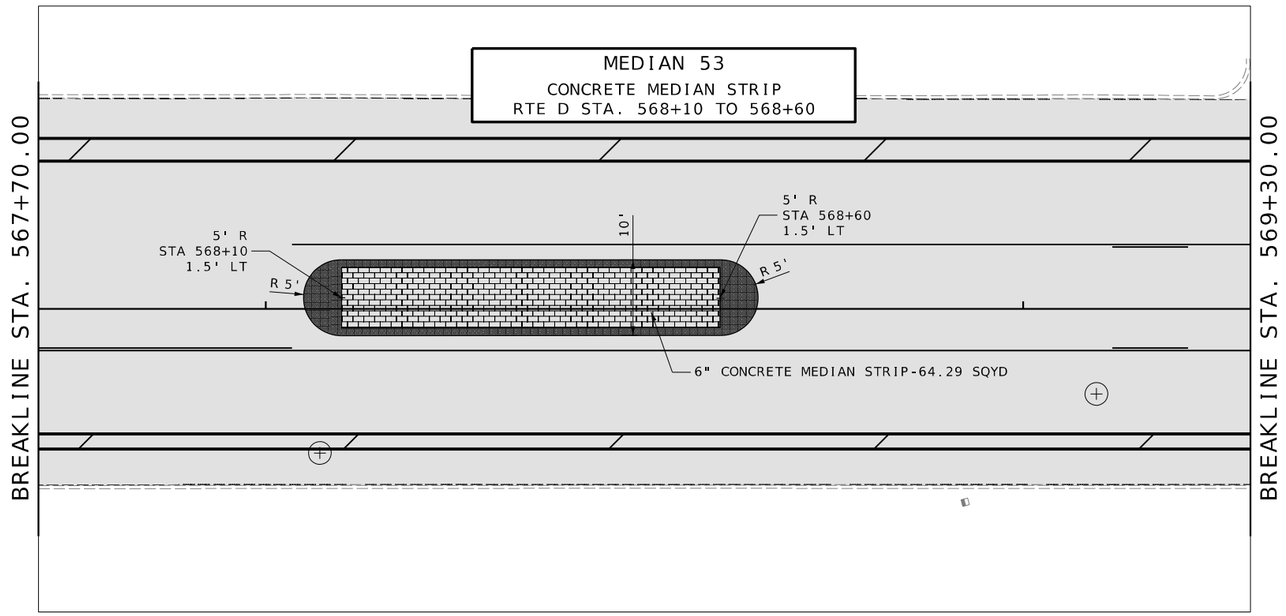
NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

SCALE

0 10 20 30





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NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	93

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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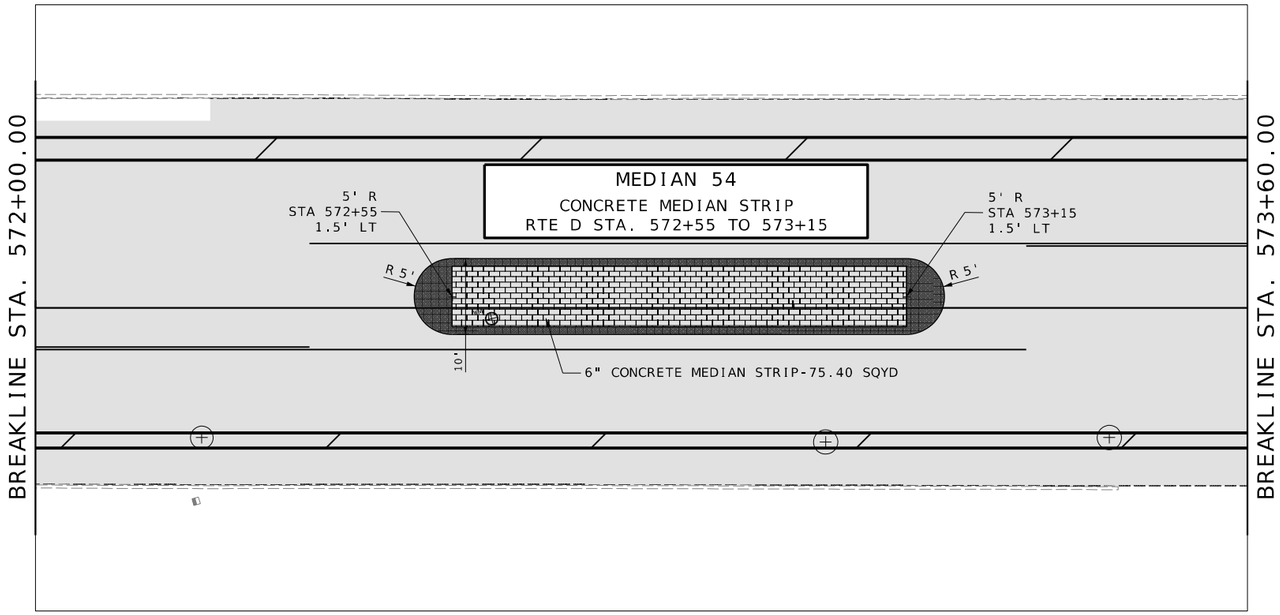
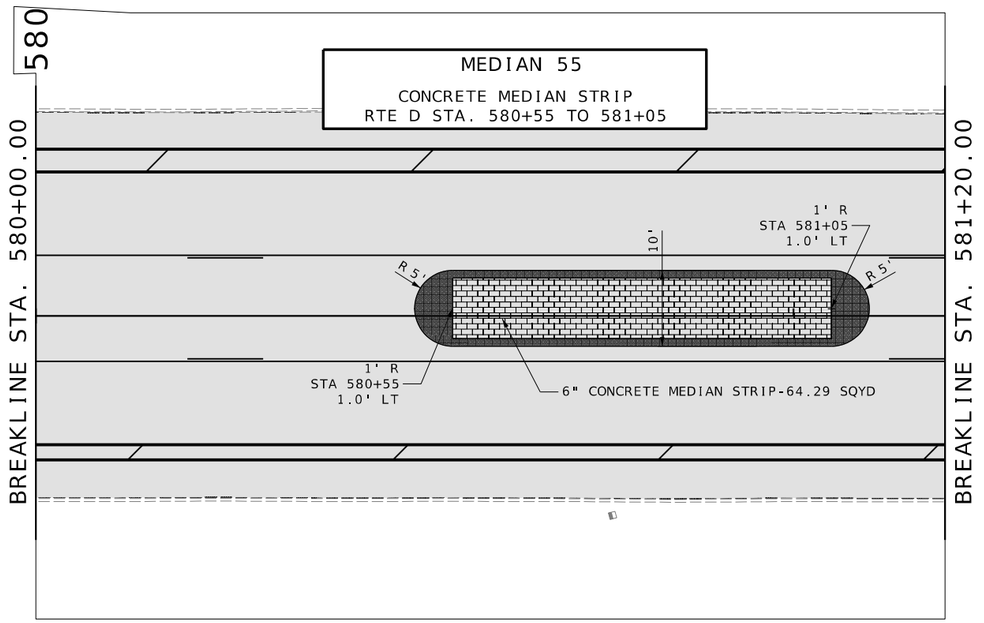
PROFESSIONAL
ENGINEER
PE-2018040668

CURB AND MEDIAN
DETAIL SHEET
SHEET 42 OF 44

SCALE

0 10 20 30





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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	94

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

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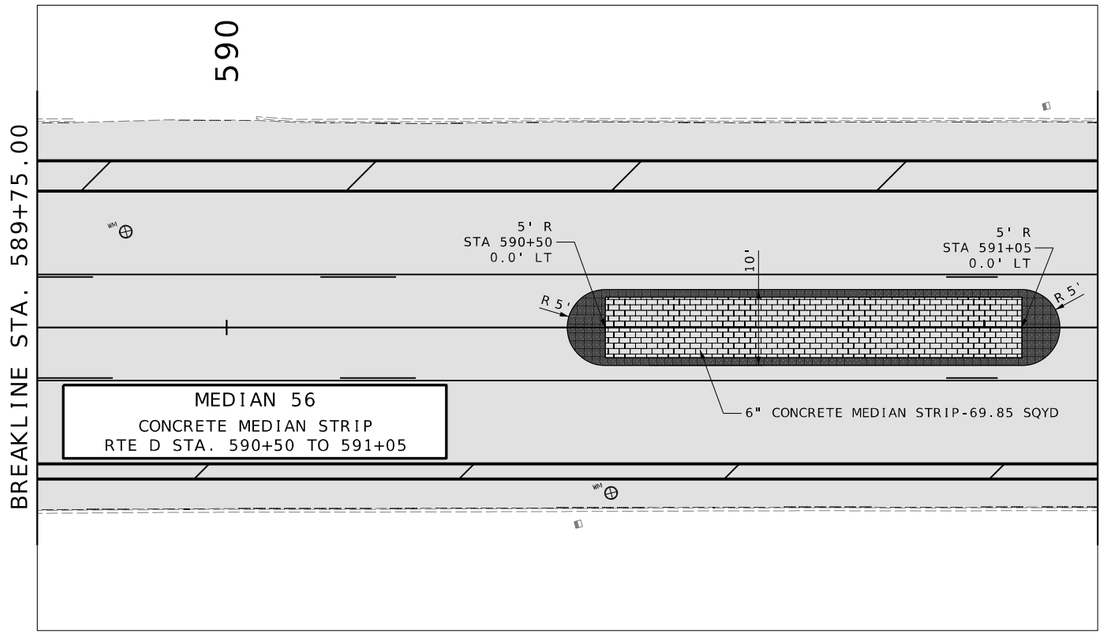
PROFESSIONAL
ENGINEER
PE-2018040668

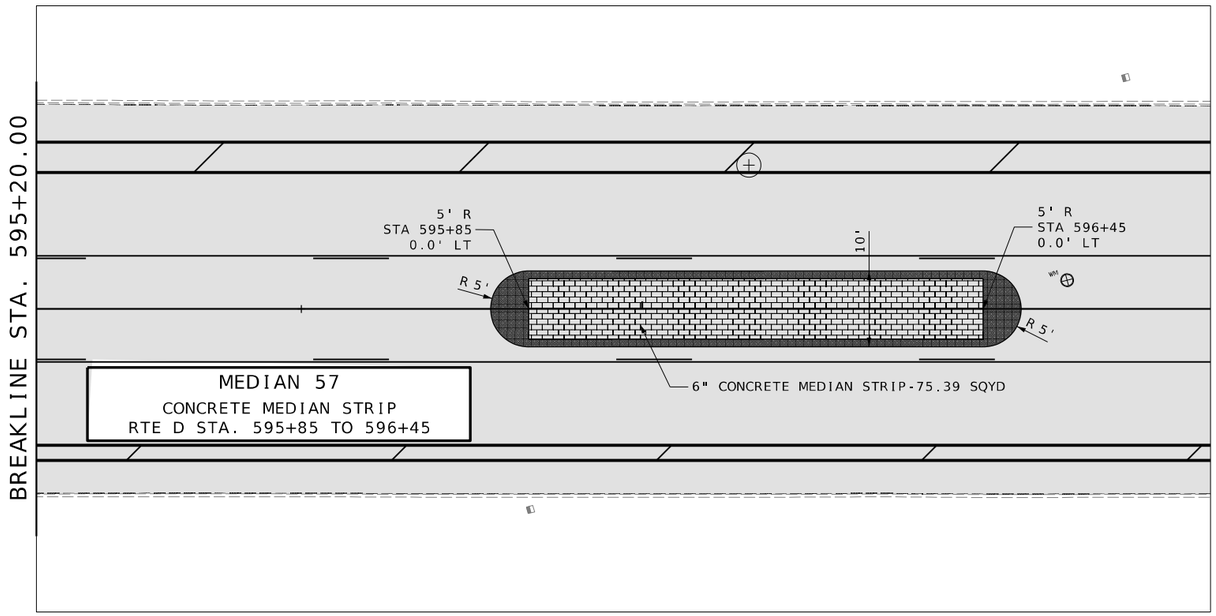
CURB AND MEDIAN
DETAIL SHEET
SHEET 43 OF 44

SCALE

0 10 20 30



MEDIAN 56
CONCRETE MEDIAN STRIP
RTE D STA. 590+50 TO 591+05



MEDIAN 57
CONCRETE MEDIAN STRIP
RTE D STA. 595+85 TO 596+45

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	95

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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PROJECT NO.

BRIDGE NO.

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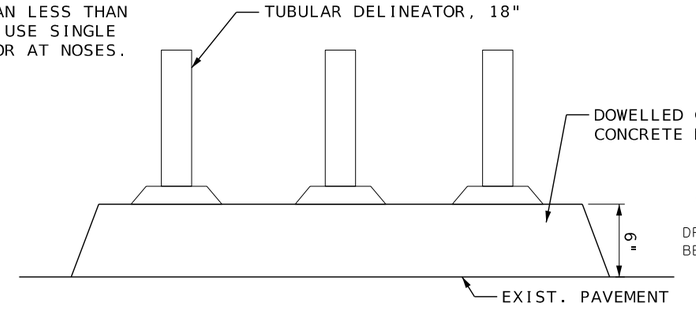
PROFESSIONAL
ENGINEER
PE-2018040668

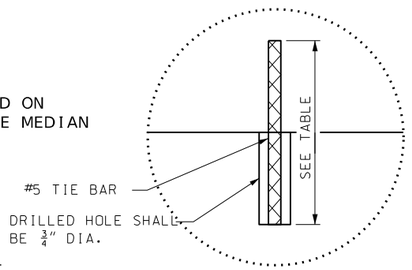
REV.

CURB AND MEDIAN
DETAIL SHEET
SHEET 44 OF 44

NOTE:
FOR MEDIAN LESS THAN 4FT WIDE USE SINGLE DELINEATOR AT NOSES.

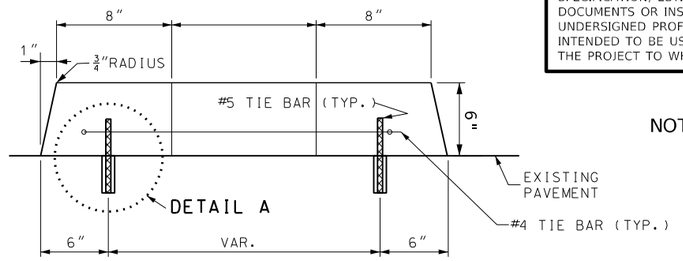


ELEVATION
CONCRETE MEDIAN NOSE
(FOR USE WITH MEDIAN GREATER THAN 4FT WIDE)



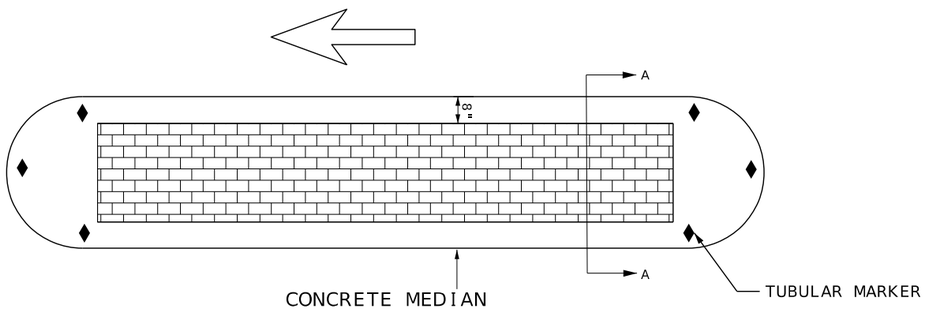
DETAIL A

MEDIAN HEIGHT	BAR LENGTH
6"	11"

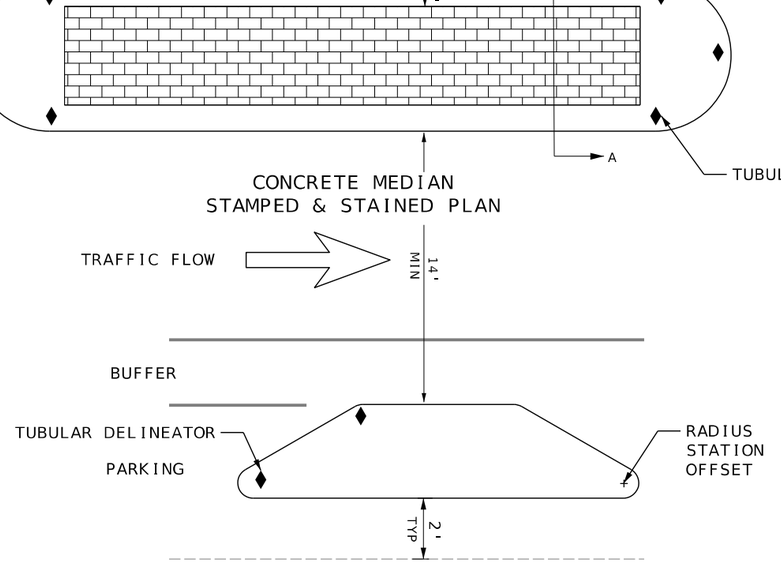


SECTION A-A
DOWELLED
CONCRETE CURB BUMPOUT &
CONCRETE MEDIAN

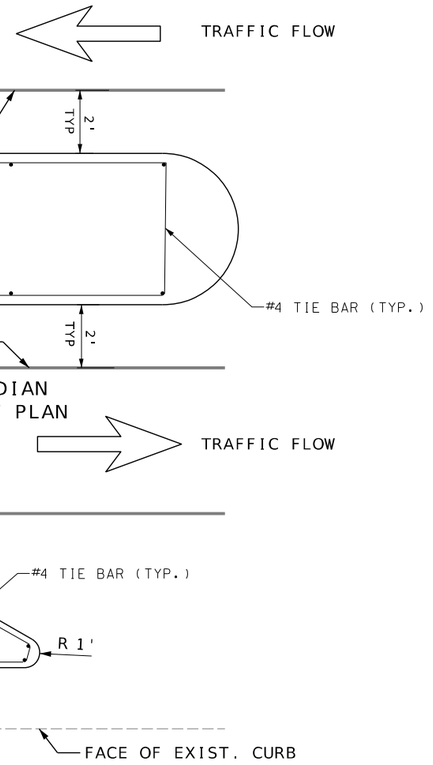
NOT TO SCALE



CONCRETE MEDIAN
STAMPED & STAINED PLAN



CONCRETE CURB BUMPOUT
PLAN



CONCRETE CURB BUMPOUT
REINFORCEMENT PLAN

NOTES:

1. ORIENT REFLECTIVE FACES TOWARD APPROACHING TRAFFIC
2. MAINTAIN A 14FT MINIMUM WIDTH FROM FACE OF CURB TO FACE OF CURB BETWEEN MEDIANS AND BUMPOUTS
3. SEE STD PLAN 608.50 FOR ADDITIONAL CUT THROUGH DETAILS
4. SEE STD PLAN 203.50 FOR ADDITIONAL DOWELED ISLAND DETAILS
5. SEE STD PLAN 903.00 FOR ADDITIONAL DELINEATOR DETAILS
6. STAMPED CONCRETE SHALL HAVE A RUNNING BOND BRICK PATTERN
7. STAINED CONCRETE SHALL BE TINTED BRICK RED, OR SIMILAR
8. FOR CENTER MEDIAN 5' OR LESS IN WIDTH, USE PLAIN CONCRETE
9. MAXIMUM 3FT WIDTH FROM FACE OF EXISTING CURB TO PROPOSED BUMPOUT

BUMPOUT & MEDIAN DETAILS

SPECIAL SHEET
SHEET 1 OF 7

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STATE OF MISSOURI
NIKKI D. CONLEY
NUMBER PE-2018040668
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	96

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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GBA
16305 SWINGLEY RIDGE RD
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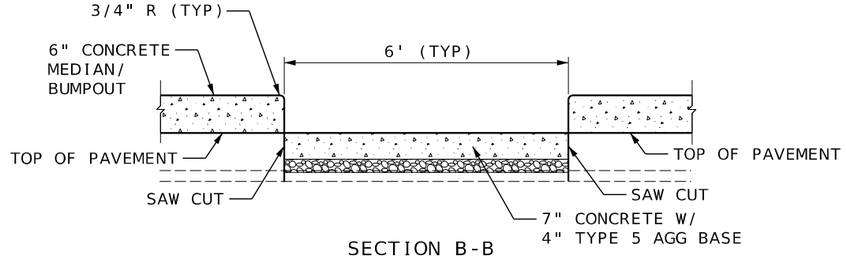
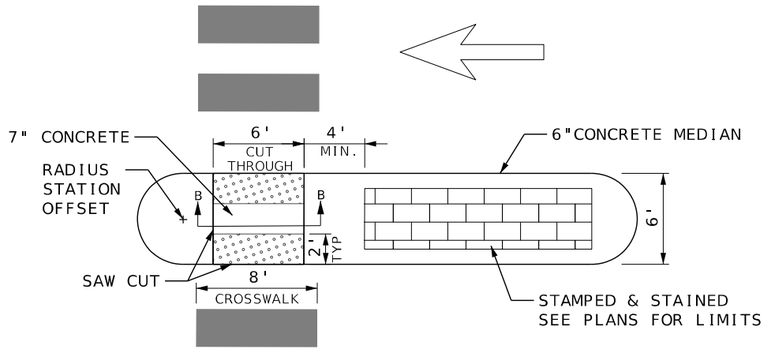
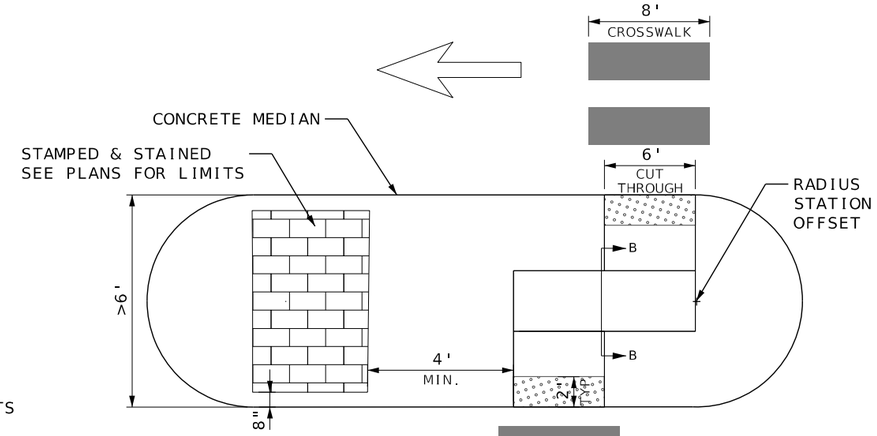
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

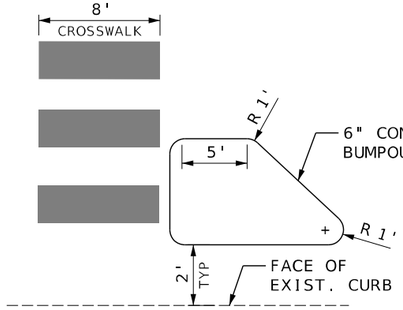
NIKKI D CONLEY
PROFESSIONAL
ENGINEER
PE-2018040668



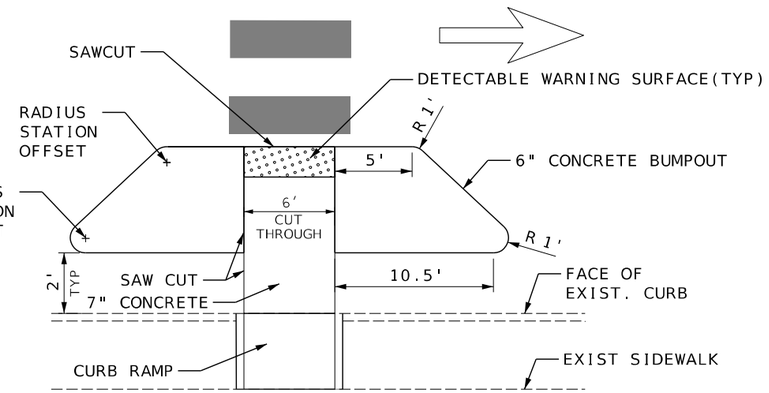
SECTION B-B
CUT THROUGH TYPICAL
AT MEDIAN/BUMPOUT



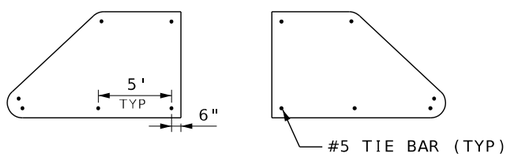




PEDESTRIAN CROSSING
CONCRETE CURB BUMPOUTS
AT EXISTING CROSSWALK



PEDESTRIAN CROSSING
CONCRETE CURB BUMPOUTS
AT MIDBLOCK CROSSWALK



CONCRETE CURB BUMPOUTS
AT MIDBLOCK CROSSWALK
REINFORCEMENT PLAN

CONCRETE MEDIAN
W/ CUT THROUGH
(FOR USE WITH MEDIAN GREATER THAN 6 FT WIDE)

NOTES:

1. DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE EDGES OF THE PEDESTRIAN ISLAND AND SHALL BE SEPARATED BY 2FT MIN. LENGTH OF SURFACE WITHOUT DETECTABLE WARNINGS.

2. PEDESTRIAN PUSH BUTTONS SHALL BE OFFSET 0" FOR FRONT APPROACH AND 10" MAX.FOR SIDE APPROACH TO THE CURB FACE.

3. SEE SIGNAL DETAIL SHEETS FOR RRFB STANDARD DETAILS. IN MEDIAN PROVIDE 4FT MINIMUM PLAIN CONCRETE FOR PEDESTRIAN SIGNAL BASE.

4. STAMPED CONCRETE SHALL HAVE A RUNNING BOND BRICK PATTERN.

5. STAINED CONCRETE SHALL BE TINTED BRICK RED, OR SIMILAR.

6. MAXIMUM 3FT WIDTH FROM FROM FACE OG EXIST CURB TO PROPOSED BUMPOUT.

BUMPOUT & MEDIAN
DETAILS

SPECIAL SHEET
SHEET 2 OF 7

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NOT TO SCALE

STATE OF MISSOURI
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SL	97

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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PRO. LAND SURVEYOR 000059

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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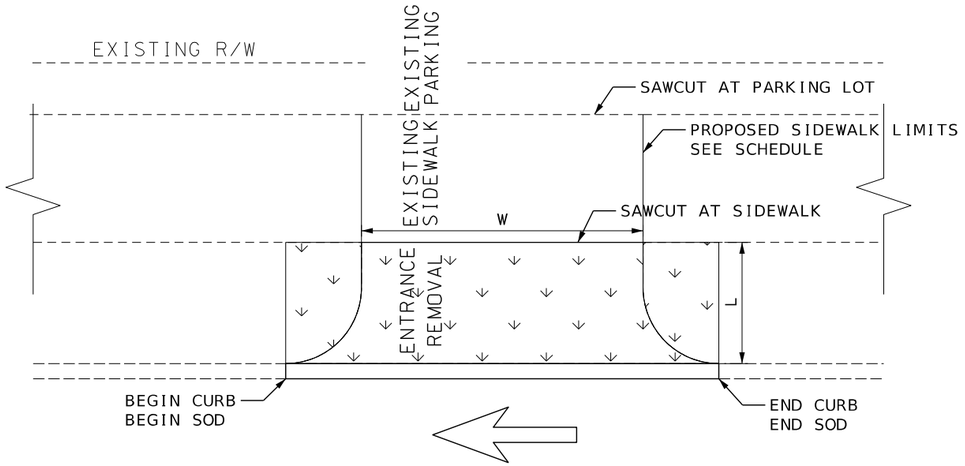
NOT TO SCALE

NOTES:
SEE STD 608.00 FOR APPROACH DETAILS.

BEGIN AND END STATIONS PROVIDED FOR INFORMATION ONLY, FIELD VERIFY ENTRANCE LIMITS.

FIELD VERIFY FINAL ENTRANCE DRIVEWAY SLOPE.

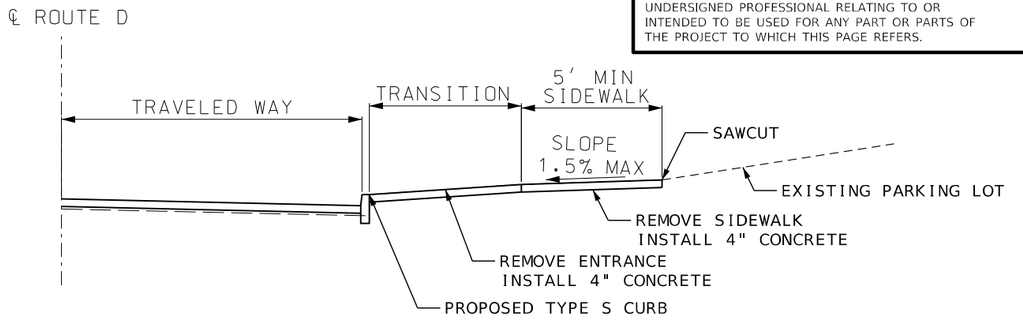
REMOVE CURBS AND ENTRANCES TO NEAREST JOINT.



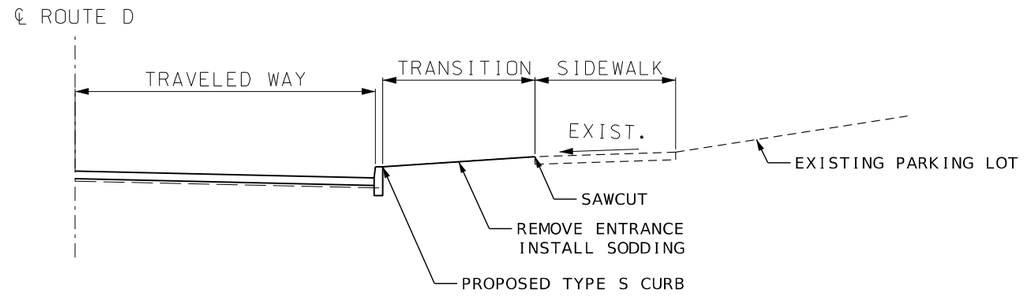
REMOVAL
PLAN VIEW

LEGEND

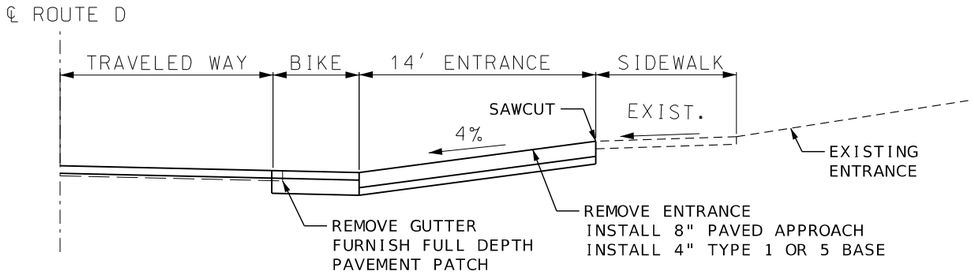
PROPOSED SODDING



PROFILE VIEW
STA 484+67 TO 485+12



PROFILE VIEW
STA 331+67 TO 332+04
STA 505+03 TO 505+36



PROFILE VIEW
STA 516+43 TO 516+66

ENTRANCE SCHEDULE

NEAREST INTERSECTION	BEGIN STATION	END STATION	SIDE	SIDEWALK (FT)	WIDTH (W)(FT)	LENGTH (L)(FT)	SAWCUT LOCATION	CURBS	REMARKS
BLACKSTONE	331+67	332+04	LT		37	6	SIDEWALK(UIP)	TYPE S	REMOVAL, MIDBLOCK
VANDEVENTEER	484+67	485+12	LT	12	39	12	PARKING LOT(UIP)	TYPE S	REMOVAL
GRAND	505+03	505+36	RT		33	4	SIDEWALK(UIP)	TYPE S	REMOVAL, FRENCH FRIE FACTORY ENTR
THOMAS	516+43	516+66	LT		24	14	SIDEWALK(UIP)	PCC VERT	FURNISH, SENIOR LIVING ENTR

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NIKKI D. CONLEY
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D	MO
DISTRICT	SHEET NO.
SL	98

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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PROJECT NO.

BRIDGE NO.

DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

DRIVEWAY DETAILS

SPECIAL SHEET
SHEET 3 OF 7

NIKKI D CONLEY
PROFESSIONAL ENGINEER
PE-2018040668

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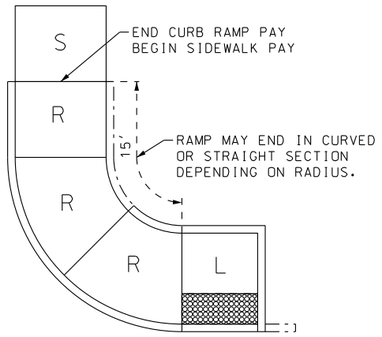
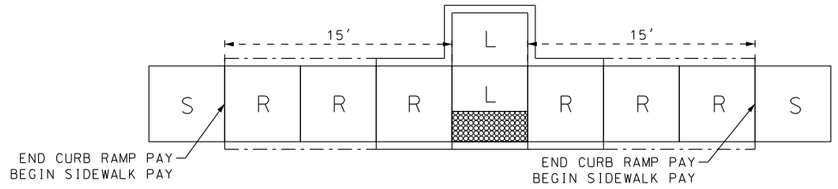
PEDESTRIAN CURB RAMP PAY LIMITS



TYPE 1 PARALLEL

THE LENTH OF THIS RAMP SHALL BE MEASURED
ON THE INSIDE/SHORT SIDE OF THE CURVE



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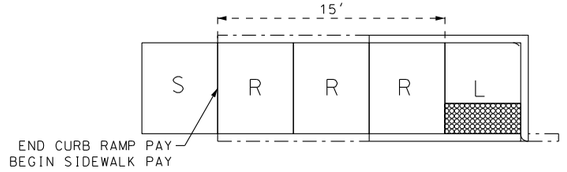
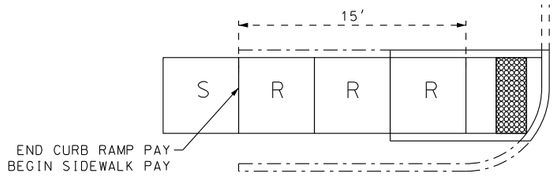
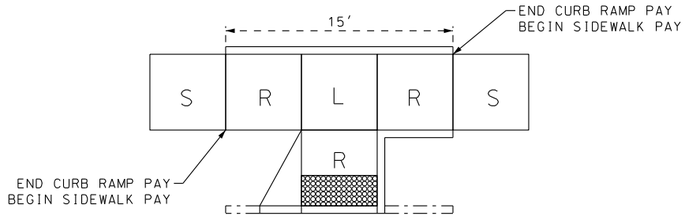


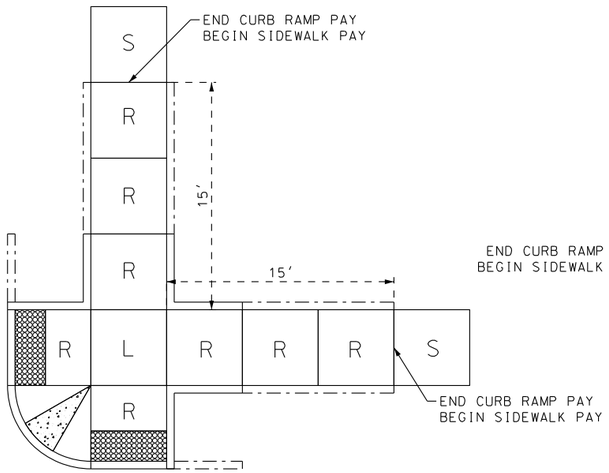
TYPE 3 PARALLEL



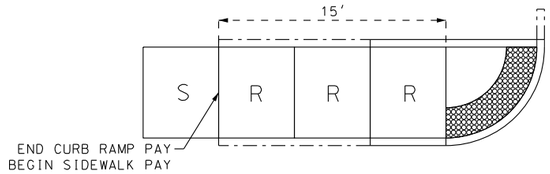
SMALL RADIUS PERPENDICULAR



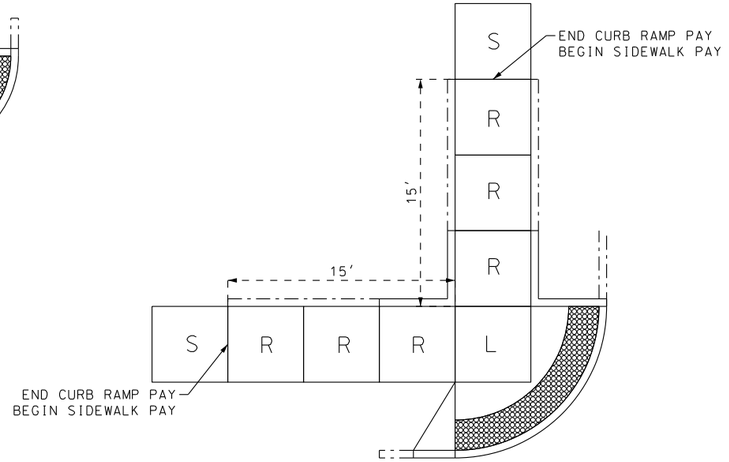
COMPOUND PERPENDICULAR



DUAL PERPENDICULAR
PAY AS 2 EACH



LARGE RADIUS PERPENDICULAR



BLENDED TRANSITION
PAY AS 2 EACH

Notes -
15 FEET OF WALKWAY SHALL BE INCLUDED IN CURB RAMP PAY, PER EACH, AS SHOWN.

L - LANDING OR CLEAR AREA FOR TURNING MOVEMENTS AND RESTS.
R - PAY AS RAMP
S - PAY AS SIDEWALK.

SEE JSP FOR OTHER INCIDENTALS INCLUDED IN CURB RAMP PAY.
SEE STANDARD PLANS 608 SERIES FOR DIMENTIONS, GRADES, AND OTHER REQUIREMENTS.
CONTRACTOR WILL HAVE OPTION TO CONSTRUCT RAMP WITH FLARE OR CURB FOR CERTAIN RAMPS ABOVE.

CURB RAMP
PAY LIMIT DETAILS

SPECIAL SHEET
SHEET 4 OF 7

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DATE PREPARED
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ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	99

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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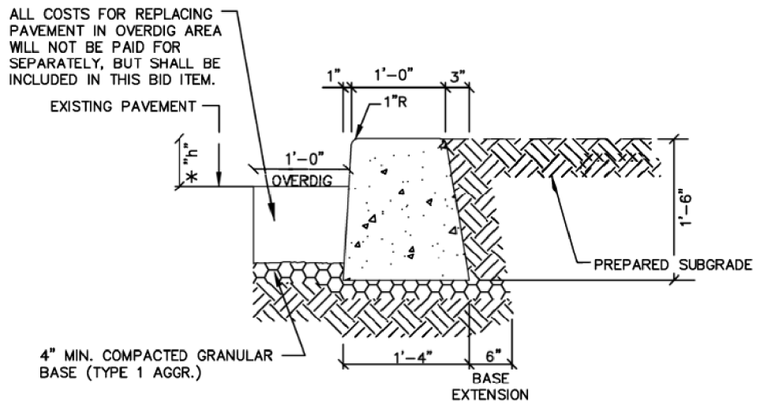
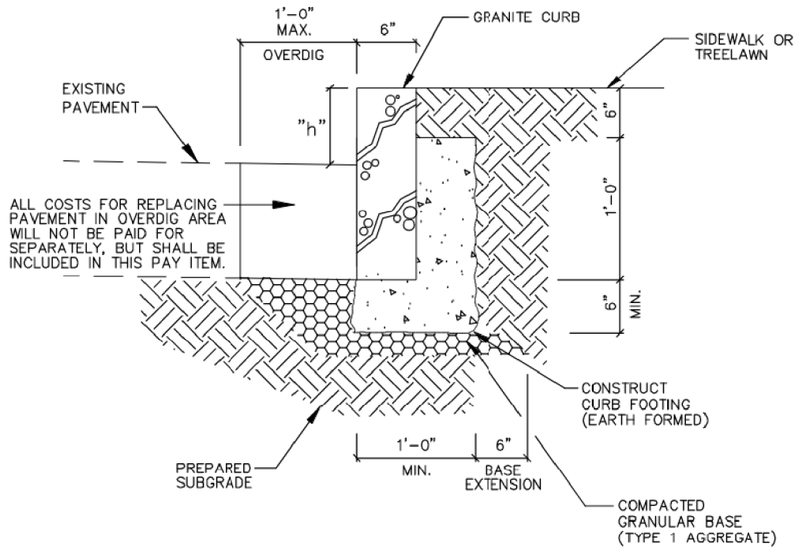


NOTES:

1.) 1/2" BIT EXPANSION JOINT EVERY 15 FT.
2.) EARTHFILL, REGRADE AND SOD AS REQUIRED BEHIND THE CURB.
3.) ALL CONCRETE SHALL BE CLASS "B".
4.) * CURB HEIGHT ("h") VARIES (SEE PLANS FOR DIMENSIONS).

PCC VERTICAL CURB (12" WIDE)	**CITY OF ST. LOUIS, MISSOURI** DEPARTMENT OF THE PRESIDENT BOARD OF PUBLIC SERVICE **Standard Details for Public Works Construction**		
	Dr.: NdJ (OA) Ch.: JTH (OA)	06-14-23	SHEET 3

Back to Table of Contents



NOTES:

1) CURB HEIGHT ("h") VARIES (SEE PLANS FOR DIMENSION).
2) ALL CONCRETE SHALL BE CLASS "B".

INSTALLATION OR ADJUSTMENT OF GRANITE CURB	**CITY OF ST. LOUIS, MISSOURI** DEPARTMENT OF THE PRESIDENT BOARD OF PUBLIC SERVICE **Standard Details for Public Works Construction**		
	Dr.: NdJ (OA) Ch.: JTH (OA)	03-31-22	SHEET 9

CITY OF ST LOUIS
DETAILS

SPECIAL SHEET
SHEET 5 OF 7

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D	MO
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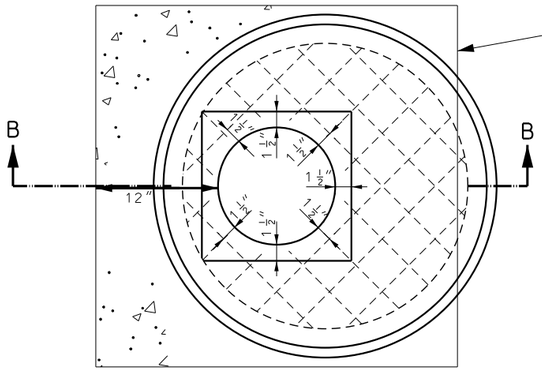
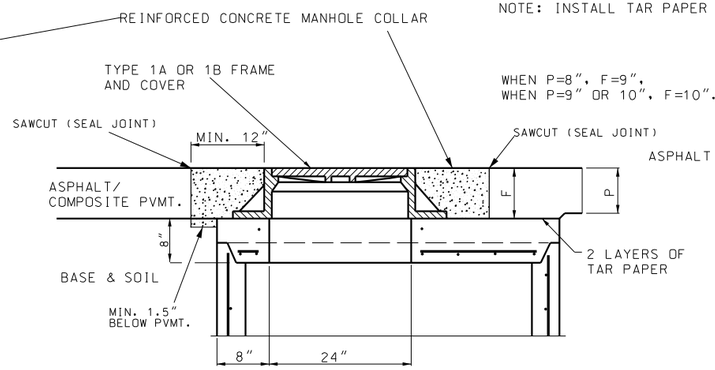


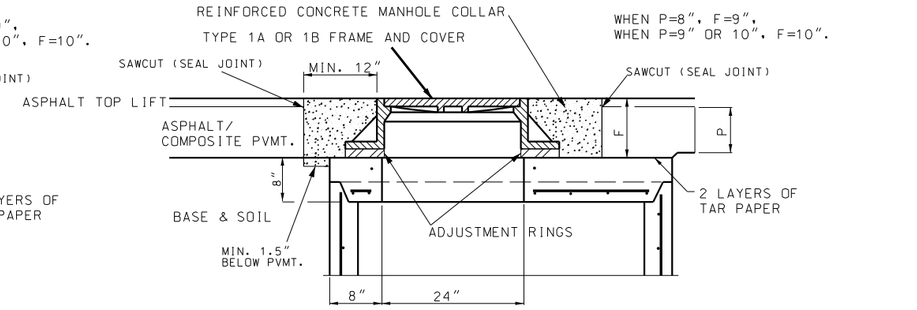
PLAN OF FLAT SLAB MANHOLE TOP



FLAT SLAB MANHOLE TOP (PAVED AREA)

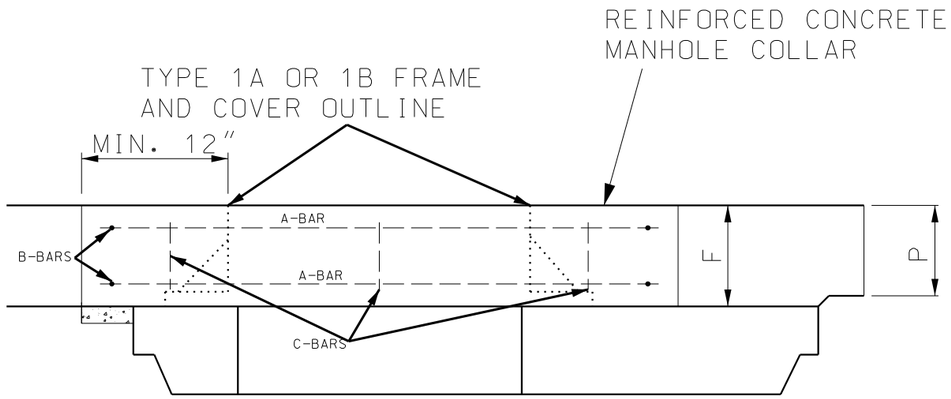
SECTION B-B

NOTE: INSTALL TAR PAPER BETWEEN FRAME & COVER AND THE NEW CONCRETE MANHOLE COLLAR AS DIRECTED BY THE ENGINEER.



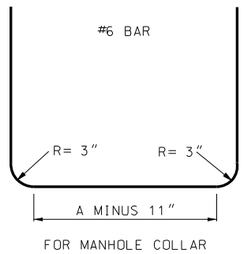
FLAT SLAB MANHOLE TOP (PAVED AREA) W/ ADJUSTMENT RINGS NEXT TO ASPHALT OVERLAY

SECTION B-B



SECTION B-B

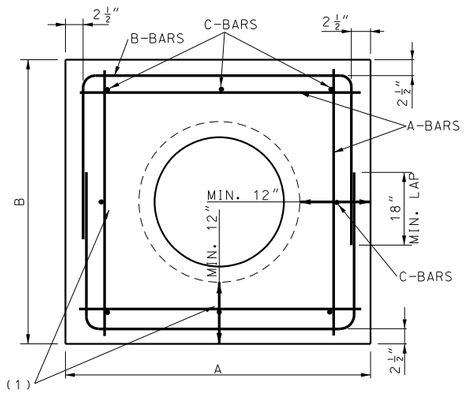
COLLAR REINFORCEMENT DETAIL



FOR MANHOLE COLLAR

BENDING DIAGRAM FOR B-BARS

(1) PROVIDE MIN. 4.75" CLEARANCE BETWEEN REINFORCING & MANHOLE FRAME & COVER OR CIRCULAR PRECAST MANHOLE.

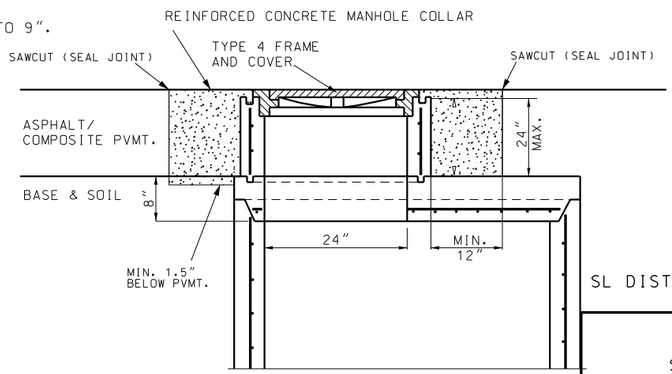


TOP VIEW OF MANHOLE COLLAR WITH REINFORCEMENT

NOTE: INSTALL 'C' BARS VERTICALLY INTO MANHOLE COLLAR CONCRETE. PROVIDE MIN. 1.5" CLEARANCE FROM TOP OF PAVEMENT & BOTTOM OF COLLAR. LENGTH OF 'C' BARS FOR 'F' DIMENSION SHALL BE 6". BAR LENGTH MAY VARY. 'C' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'B' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'A' BAR REINFORCEMENT SHALL HAVE 1.5" CLEARANCE TO EDGE OF COLLAR.

GENERAL NOTES:

1. IF MANHOLE STRUCTURE DOES NOT HAVE FRAME & COVER BUT INSTEAD THE ENTIRE STRUCTURE REACHES THE TOP OF ROADWAY, THEN THIS SHEET SHALL NOT BE USED.
2. THIS SHEET SHALL TYPICALLY BE USED WHERE THE MANHOLE FRAME & COVER NEED TO BE RAISED TO GRADE, BUT CAN BE USED FOR NEW STRUCTURES AS WELL, PARTICULARLY FOR STRUCTURES INSTALLED WITHIN ASPHALT PAVEMENT.
3. THE CONTRACTOR SHALL USE 2 LAYERS OF 'A' & 'B' BAR REINFORCEMENT AS LONG AS 'F' THICKNESS NOTED ABOVE IS GREATER THAN OR EQUAL TO 9".
4. PAYMENT FOR REINFORCED CONCRETE MANHOLE COLLAR SHALL BE MADE PER EACH AND SHALL INCLUDE ALL NECESSARY REINFORCEMENT AND SAW CUTS OF EXISTING OR PROPOSED PAVEMENT.
5. MIN. DIMENSIONS OF 'A' AND 'B' IS THE FOLLOWING: 12" WALL + MANHOLE (INCLUDING WALL THICKNESS) + 12".
6. CONTRACTOR SHALL PROVIDE EITHER A SQUARE OR RECTANGLE SHAPED FULL DEPTH SAWCUT AROUND THE CONCRETE MANHOLE COLLAR AFTER CONSTRUCTION. THE MIN. WIDTH SHALL BE 12" BUT MAY VARY. THE CONTRACTOR SHALL NOT DO A CIRCULAR SAWCUT AROUND THE REINFORCED CONCRETE MANHOLE COLLAR.
7. CONCRETE USED FOR MANHOLE COLLAR SHALL BE THE SAME AS THAT USED FOR FULL DEPTH PAVEMENT REPAIRS. PLEASE SEE SECTION 613.10 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS. CONTRACTOR MAY BE ALLOWED TO USE HIGH EARLY STRENGTH CONCRETE, WITH APPROVAL FROM THE ENGINEER.
8. THE CONTRACTOR SHALL RAISE THE MANHOLE FRAME & COVER USING CONCRETE RINGS AND APPROVED MECHANICAL ADJUSTMENT DEVICES TO FINISH GRADE MATCHING PROFILE AND CROSS SLOPE.
9. REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE.
10. NO DIRECT PAYMENT WILL BE MADE FOR PROVIDING, CUTTING OR BENDING REINFORCING STEEL.
11. THE CONTRACTOR SHALL SEAL JOINTS FORMED BETWEEN THE INTERFACE OF THE NEW COLLAR AND THE ASPHALT PAVEMENT ALONG WITH JOINTS CREATED BY THE OVERCUT OF SAWING FOR THE REMOVAL OF PAVEMENT. SEE THE JSP FOR ADDITIONAL INFORMATION.



ALTERNATE MANHOLE TOP

SL DISTRICT MANHOLE COLLAR DETAILS

SPECIAL SHEET
SHEET 6 OF 7

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	101

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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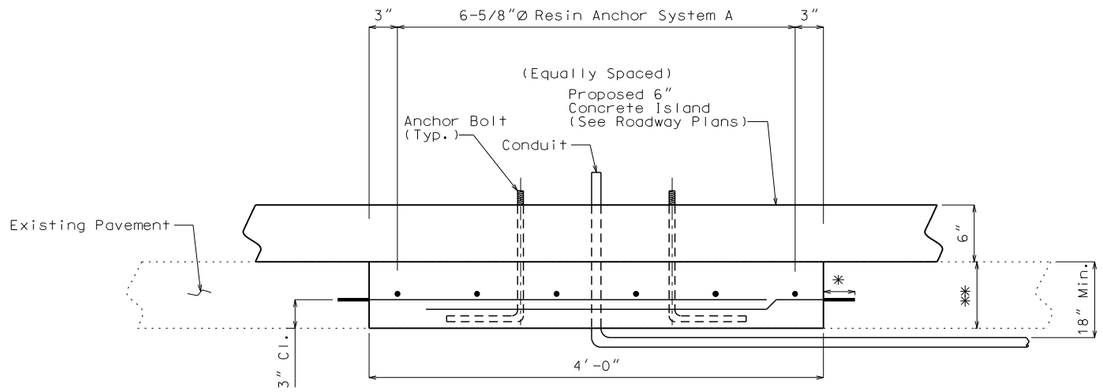
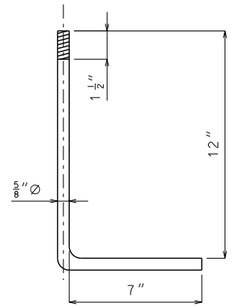
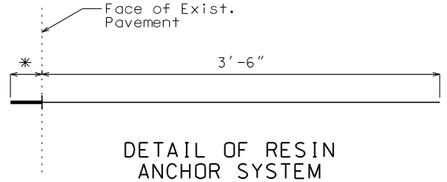
REV.



ELEVATION



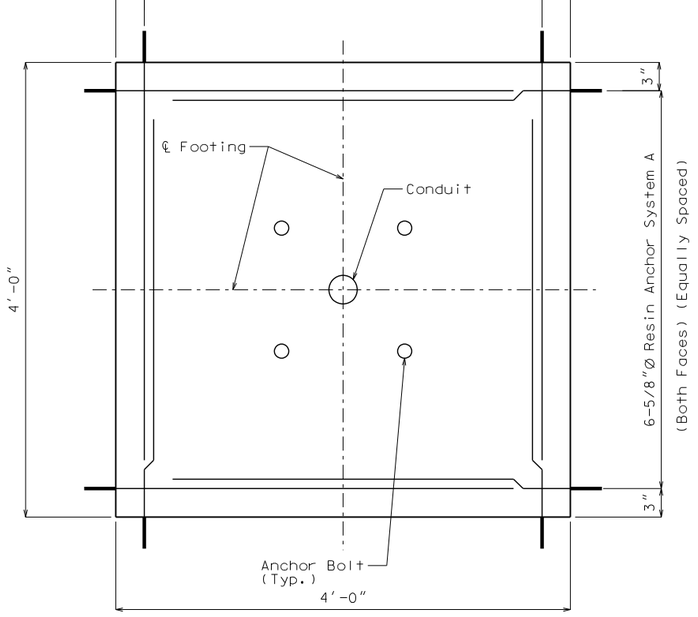
ANCHOR BOLT DETAIL
(4 Req'd)



DETAIL OF RESIN
ANCHOR SYSTEM

SYSTEM A
(24 Req'd)

* Manufacturer's recomended embedment depth (5" min.)



PLAN OF FOOTING

Notes:

Concrete for the proposed footing shall be Class B with f'c = 3,000 psi.

All anchor bolts shall be fully galvanized.

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

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

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

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

Existing pavement thickness to be determined in field.

Payment for concrete, anchor bolts, resin anchors and any other work incidental to the proposed footing, complete in place, will be considered a roadway item.

NO ADDITIONAL PAYMENT WILL BE MADE TO COMPENSATE THE CONTRACTOR FOR THE REQUIREMNET OF FURNISHING MATERIALS AND INSTALLING THE PEDESTRIAN PEDESTAL SPREAD FOOTINGS. FULL COMPENSATION SHALL BE INCLUDED IN THE COST FOR CONCRETE BASE PAY ITEM NUMBER 902-91.00,PER CUBIC YARD.

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NOT TO SCALE

Follow dimensions.

SL DISTRICT
PEDESTRIAN PEDESTAL
SPREAD FOOTING DETAILS

SPECIAL SHEET
SHEET 7 OF 7

DETAILS OF PROPOSED PEDESTRIAN PEDESTAL SPREAD FOOTING

DATE PREPARED 1/30/2026
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 102
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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JEFFERSON CITY, MO 65102
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
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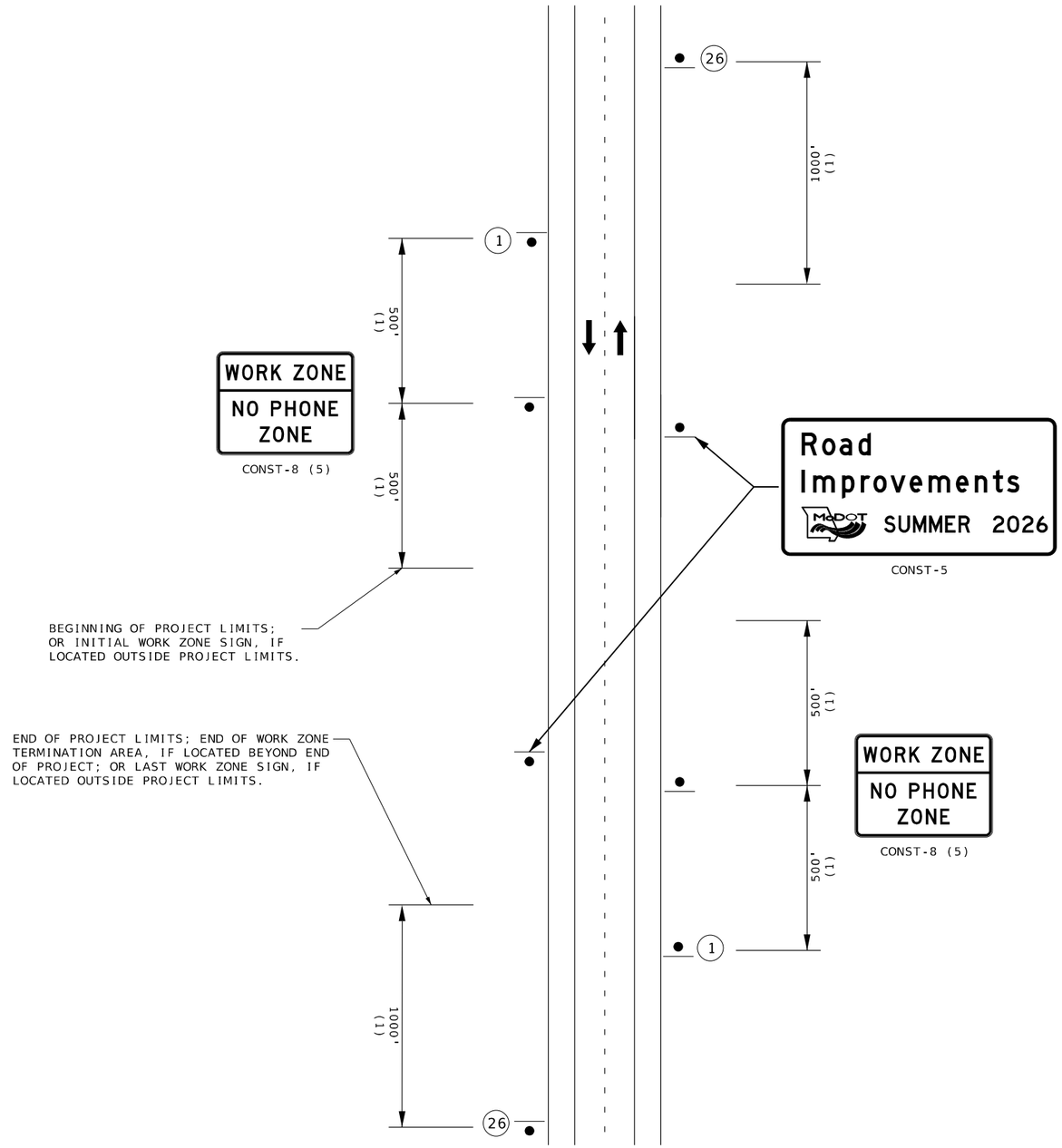

BEGIN/END OF PROJECT SIGNING

NOTES:

SIGN (1) IS REQUIRED.

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

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

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

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

(2) SIGN CONST-5 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN 1.

(3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR A EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

ROAD WORK
NEXT MILES
GO20-1
1

END
ROAD WORK
GO20-2
26

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	103

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SHEET 1 OF 6

TRAFFIC CONTROL SHEET

ROUTE D
TYPICAL APPLICATION

NOT TO SCALE

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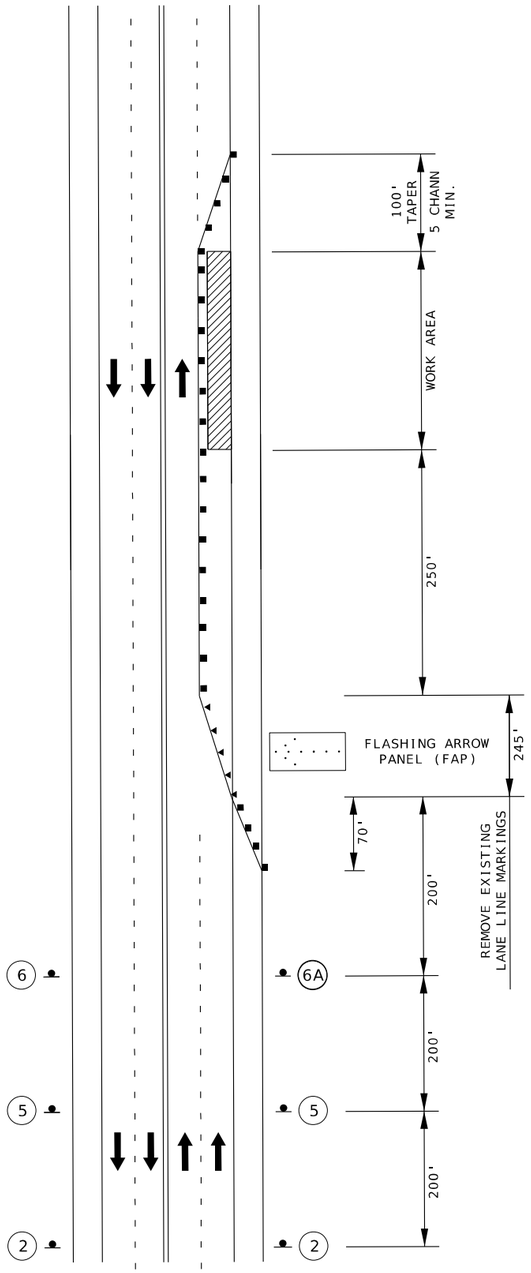
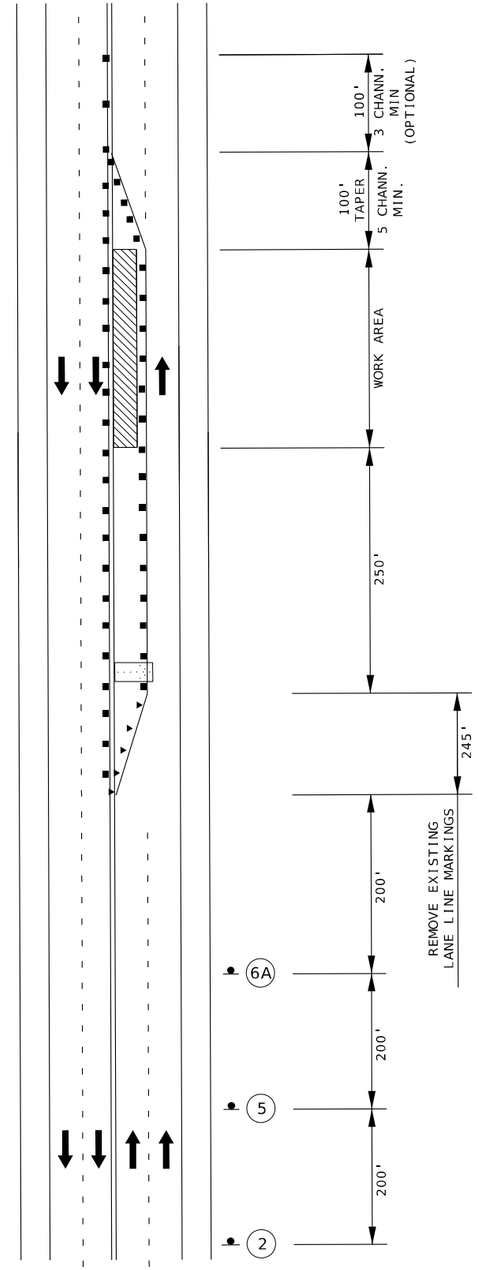


OUTSIDE LANE CLOSURE
MULTI-LANE HIGHWAY



INSIDE LANE CLOSURE
MULTI-LANE HIGHWAY

CHANNELIZERS

DIRECTIONAL INDICATOR BARRICADES

NOTES:

1. CHANNELIZERS WILL BE SPACED AT 40' INTERVALS ALONG THE WORK ZONE AND AT 35' INTERVALS WITHIN TAPERS.
2. A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE FOR ROADWAY SEGMENTS POSTED AT 45 MPH OR LESS.

SHEET 2 OF 6

TRAFFIC CONTROL SHEET

ROUTE D
TYPICAL APPLICATION

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	104

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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NOT TO SCALE

WO20-1

(2)

BRIDGE
OR
RAMP

WO20-5

(5)

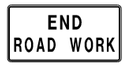
CENTER LANE
OR
LEFT LANE

WO20-6a

(6)

CENTER
OR
LEFT

CHANNELIZERS



GO20-2

(26)

NOTES:

1. ACTIVATE HIGH INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS, OPERATE FLASHING ARROW PANEL (FAP) WITH THE APPROPRIATE ARROW MODE.
2. A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE FOR ROADWAY SEGMENTS POSTED AT 45 MPH OR LESS.

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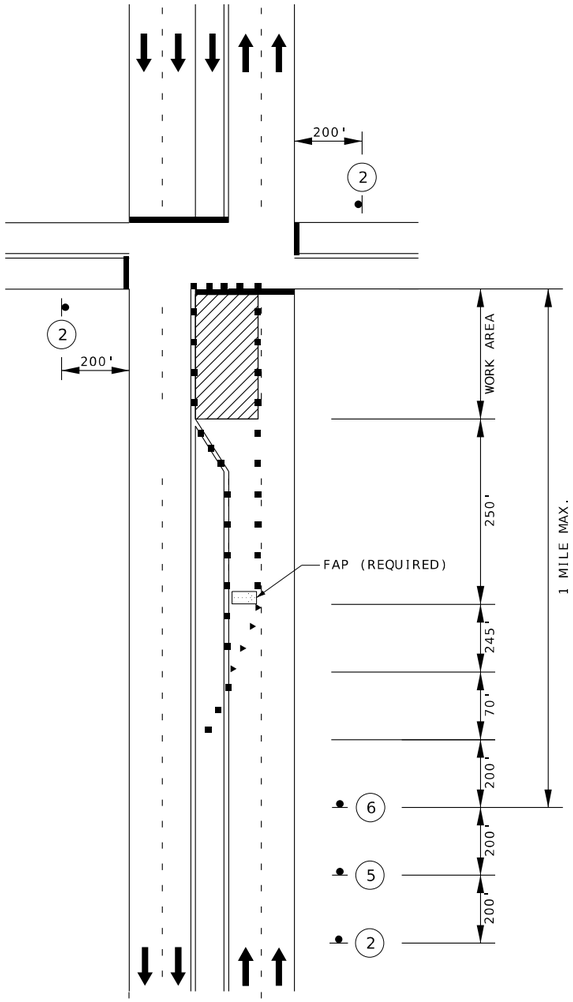
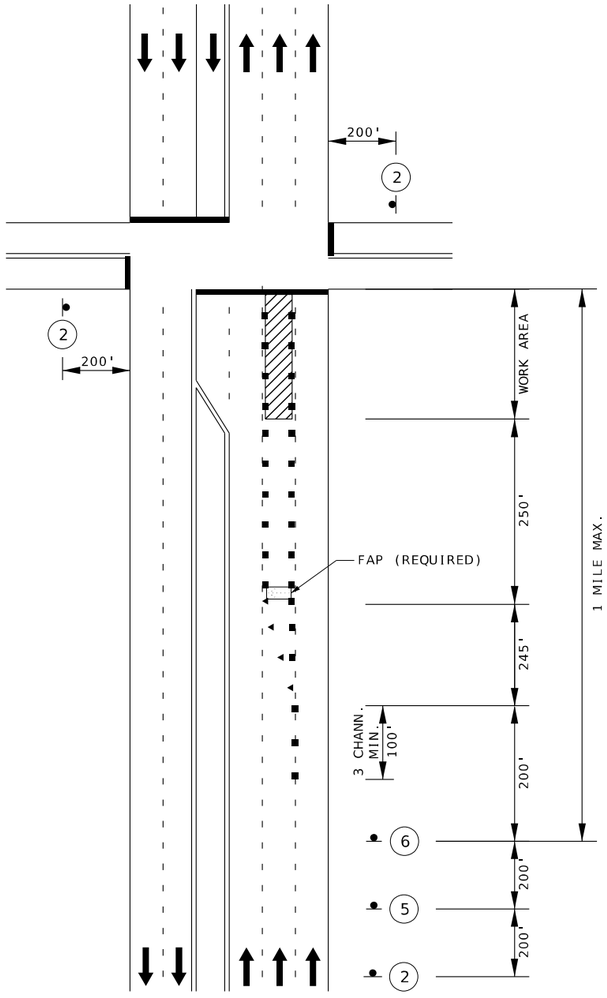
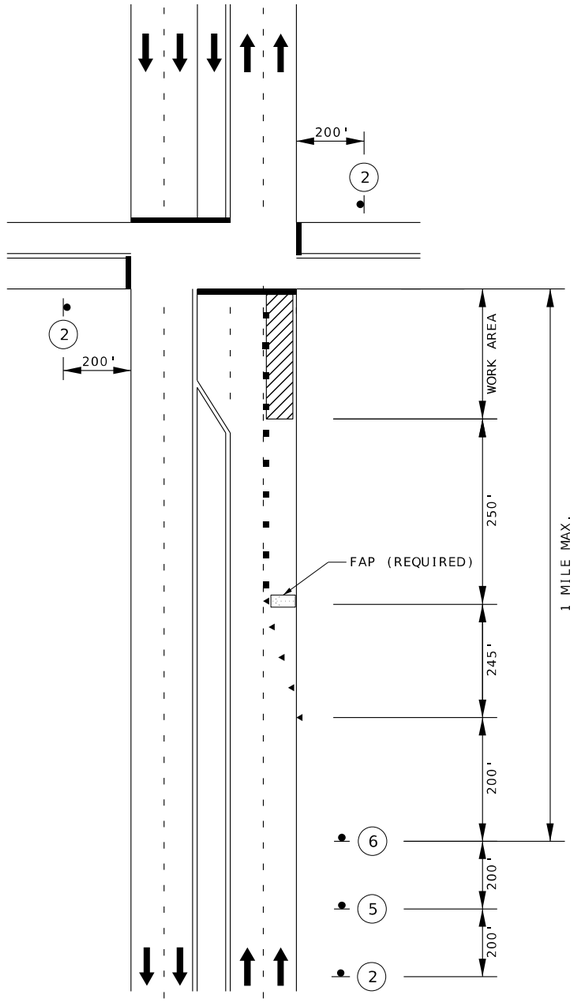


LEFT LANE CLOSURE
AT INTERSECTION
(NEAR SIDE WORK ZONE)



CENTER LANE CLOSURE
AT INTERSECTION
(NEAR SIDE WORK ZONE)



RIGHT LANE CLOSURE
AT INTERSECTION
(NEAR SIDE WORK ZONE)

SHEET 3 OF 6

TRAFFIC CONTROL SHEET

ROUTE D
TYPICAL APPLICATION

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	105

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE	REV.

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PROFESSIONAL
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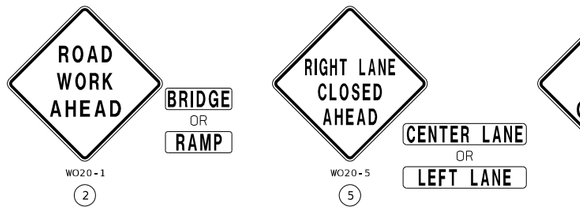

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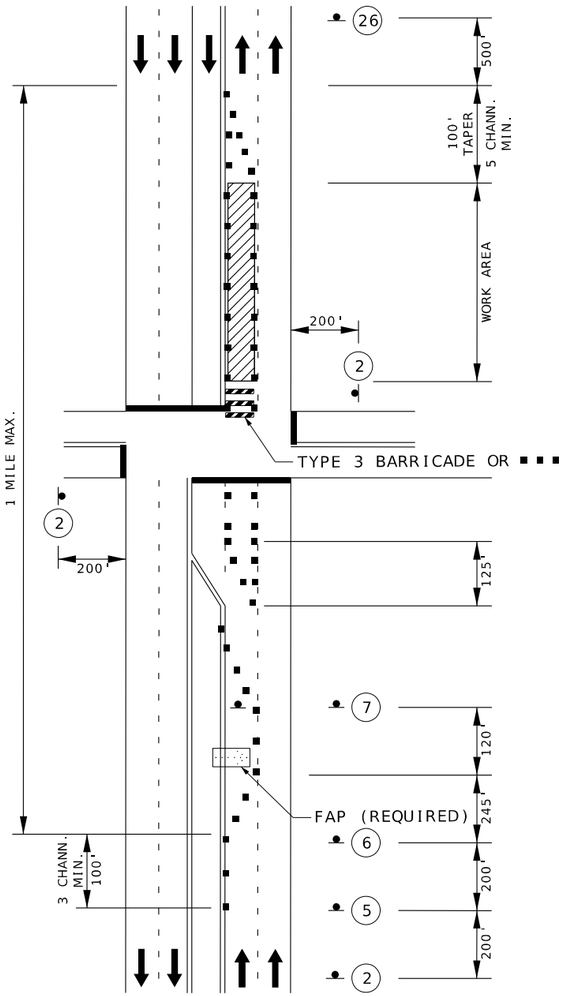
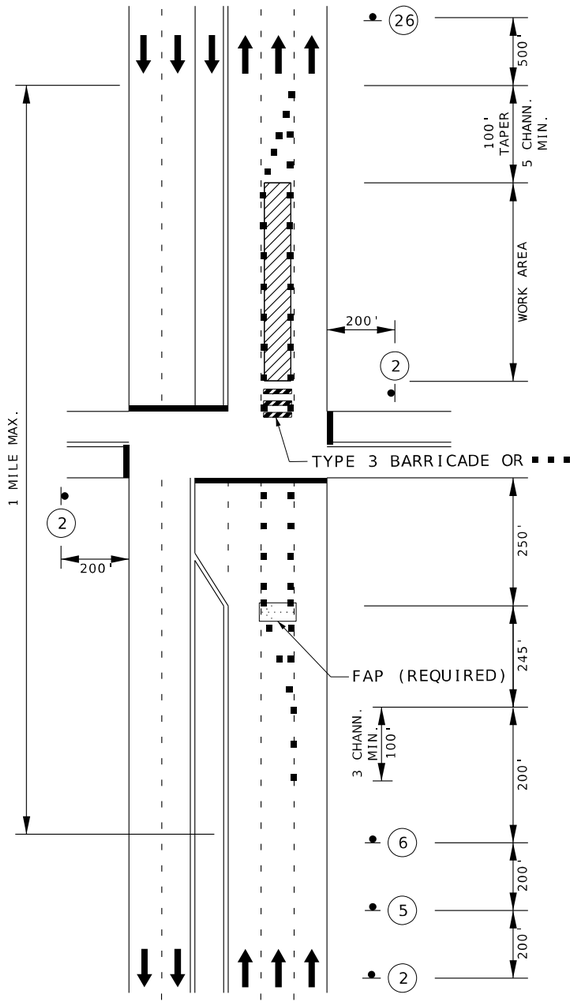
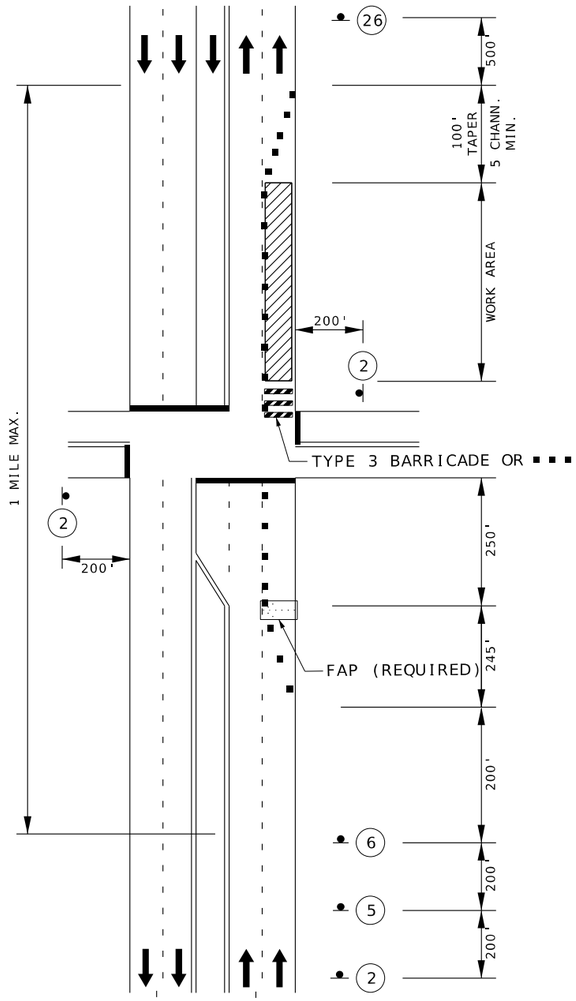


LEFT LANE CLOSURE
AT INTERSECTION
(FAR SIDE WORK ZONE)



CENTER LANE CLOSURE
AT INTERSECTION
(FAR SIDE WORK ZONE)



RIGHT LANE CLOSURE
AT INTERSECTION
(FAR SIDE WORK ZONE)

SHEET 4 OF 6

TRAFFIC CONTROL SHEET

ROUTE D
TYPICAL APPLICATION

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CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	106

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

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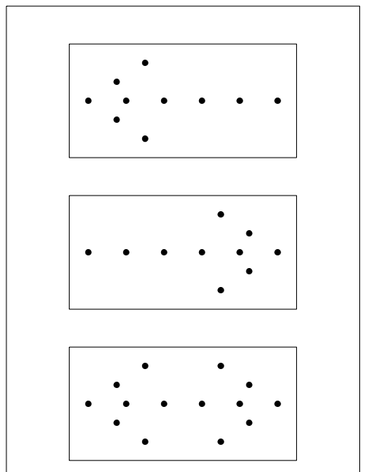

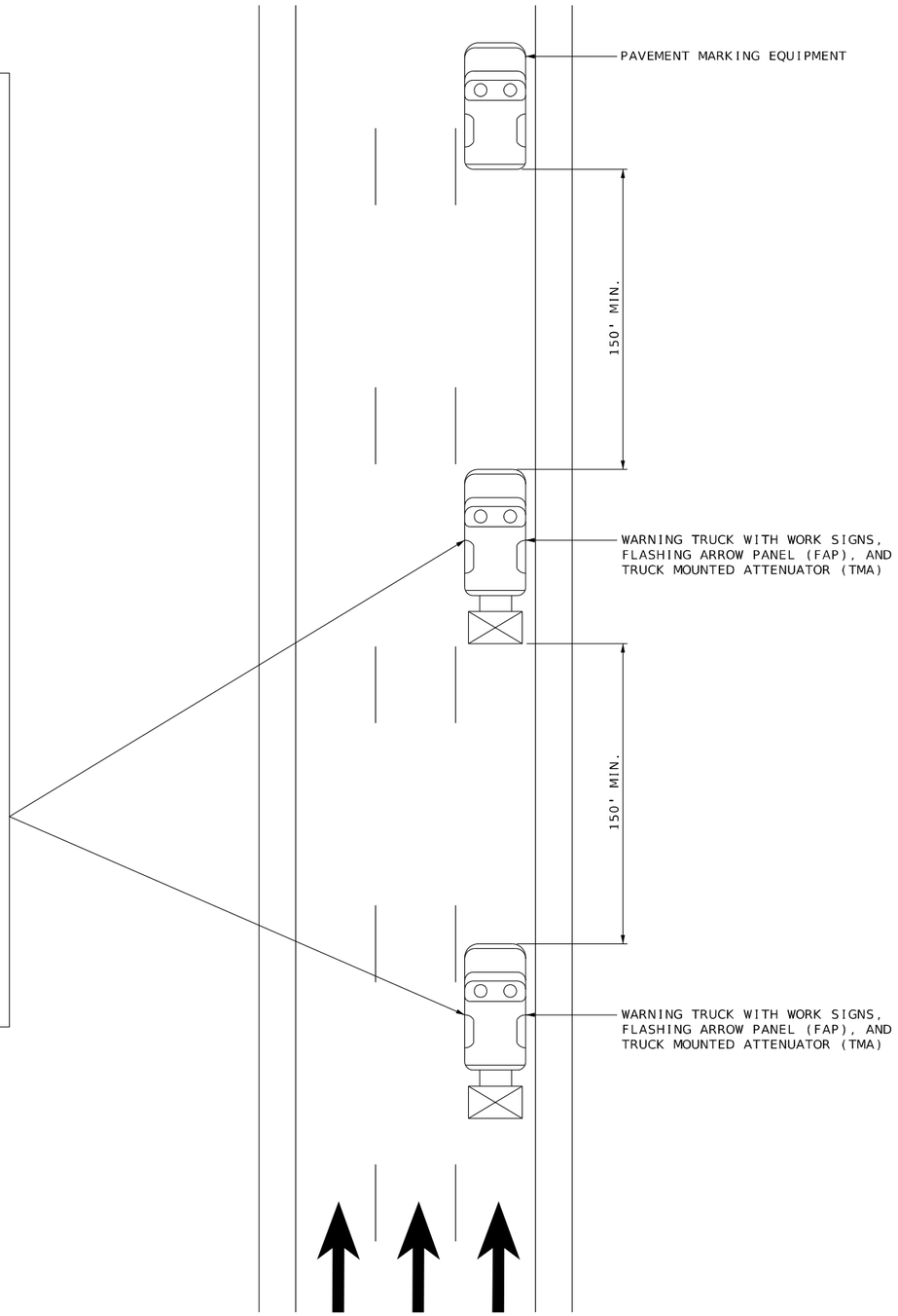

STRIPING ON MULTI-LANE HIGHWAY

NOTES:

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

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

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

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

FLASHING ARROW PANELS SHALL BE INCIDENTAL WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

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

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

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

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	107

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SHEET 5 OF 6

TRAFFIC CONTROL SHEET

ROUTE D
TYPICAL APPLICATION

NOT TO SCALE

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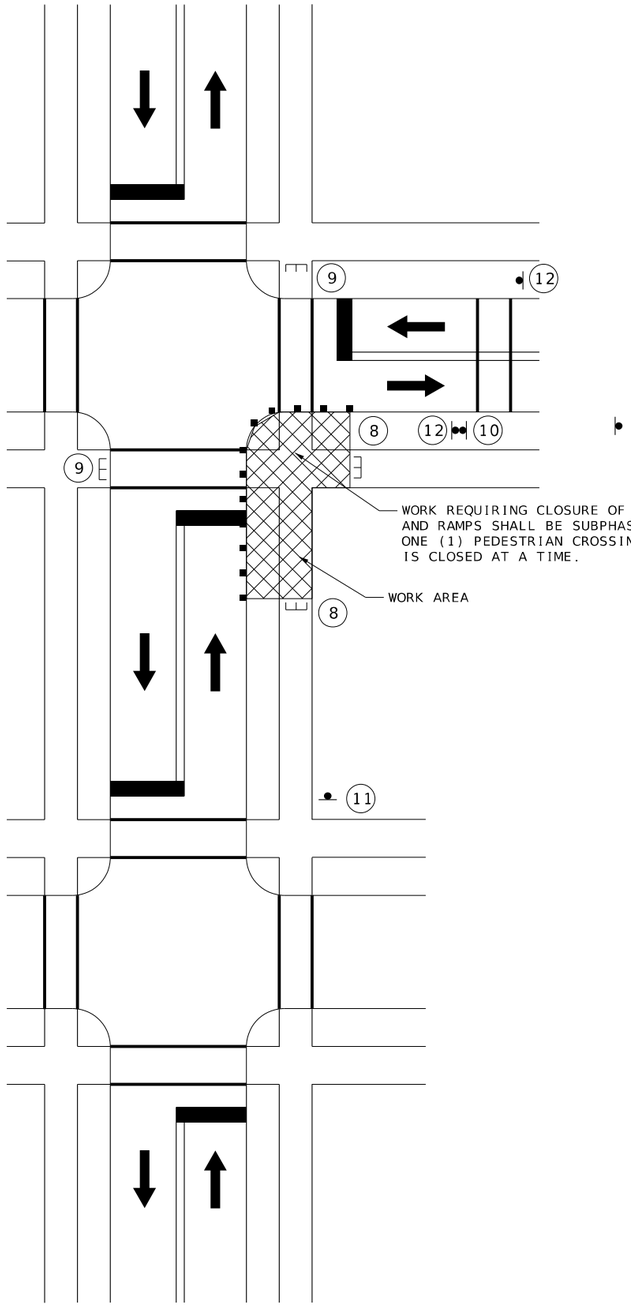


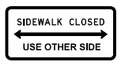
WORK REQUIRING CLOSURE OF PEDESTRIAN CROSSWALKS AND RAMPS SHALL BE SUBPHASED SUCH THAT ONLY ONE (1) PEDESTRIAN CROSSING AT AN INTERSECTION IS CLOSED AT A TIME.

WORK AREA

SIDEWALK DETOUR

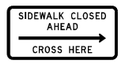
R9-9

8



R9-10

9



R9-11R

10

R9-11L

11

W11-2

W16-7P

12

CHANNELIZERS

ADA COMPLIANT PEDESTRIAN MOVABLE BARRICADE

NOTES:

1. ONLY THE TTC DEVICES RELATED TO PEDESTRIAN DETOUR ARE SHOWN. OTHER TTC DEVICES, SUCH AS LANE CLOSURE SIGNING, SHALL BE USED TO CONTROL VEHICULAR TRAFFIC AS NECESSARY.

2. SIGNS SHALL BE PLACED AT NEAREST CROSSWALK STATING SIDEWALK CLOSED.

3. ALL BUSINESSES SHALL REMAIN ACCESSIBLE BY ANOTHER ENTRANCE.

4. ALL SIGNS MAY BE RELOCATED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

5. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENTLY WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.

6. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVABLE BARRICADES. TWO BARRICADES SHALL BE USED PER PEDESTRIAN APPROACH. ONE "SIDEWALK CLOSED" SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH.

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	108

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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JEFFERSON CITY, MO 65102
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SHEET 6 OF 6

TRAFFIC CONTROL SHEET

ROUTE D
TYPICAL APPLICATION

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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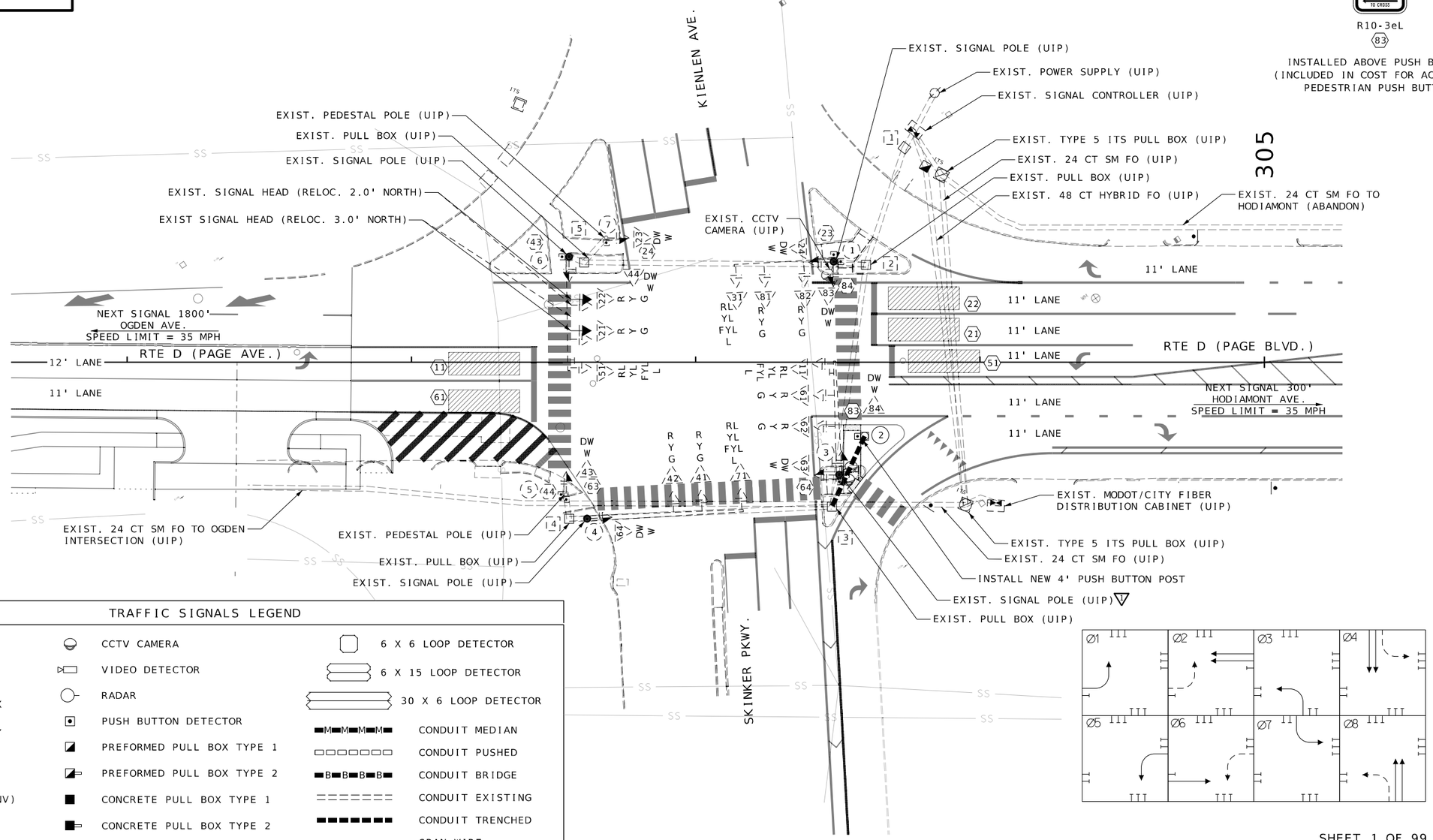
R10-3eL
83

INSTALLED ABOVE PUSH BUTTONS (INCLUDED IN COST FOR ACCESSIBLE PEDESTRIAN PUSH BUTTON)



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNAL MODIFICATION NOTES:
▽ REMOVE PUSH BUTTON FOR N-S PEDESTRIAN CROSSING FROM SIGNAL POLE 1

SHEET 1 OF 99

SIGNAL PLAN SHEET

ROUTE D
SKINKER PARKWAY/
KIENLEN AVENUE

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	109

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | | | | | | | | | | POST | | | | | | | | | | | | | | | | | |

SCALE

0 20 40 60

NOTE:
ALL SIGNAL POLE BASES SHALL BE DEMOLISHED AT OR BELOW FINAL GRADE.

3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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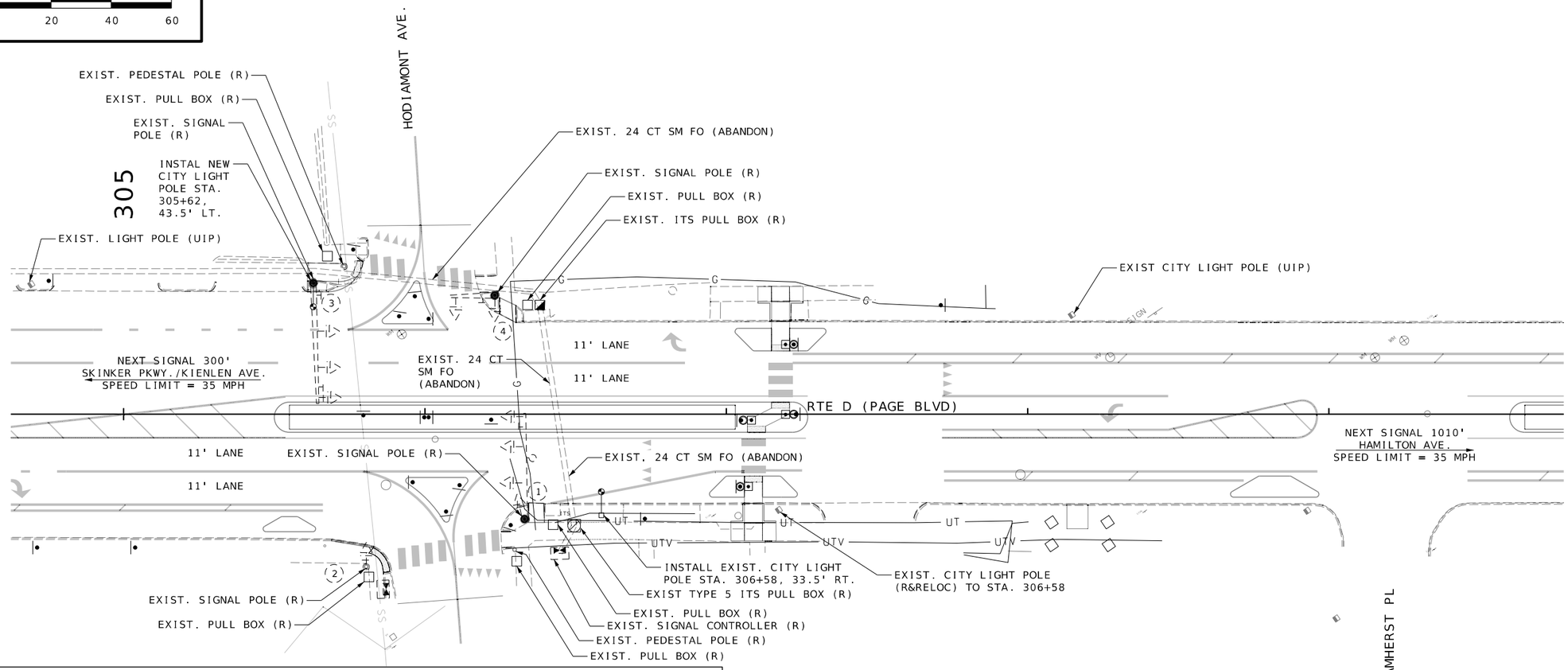

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
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- RADAR
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- PREFORMED PULL BOX TYPE 1
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- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SHEET 3 OF 99

SIGNAL PLAN SHEET

ROUTE D
HODIAMONT AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	111

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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REV. | DESCRIPTION | DATE

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS

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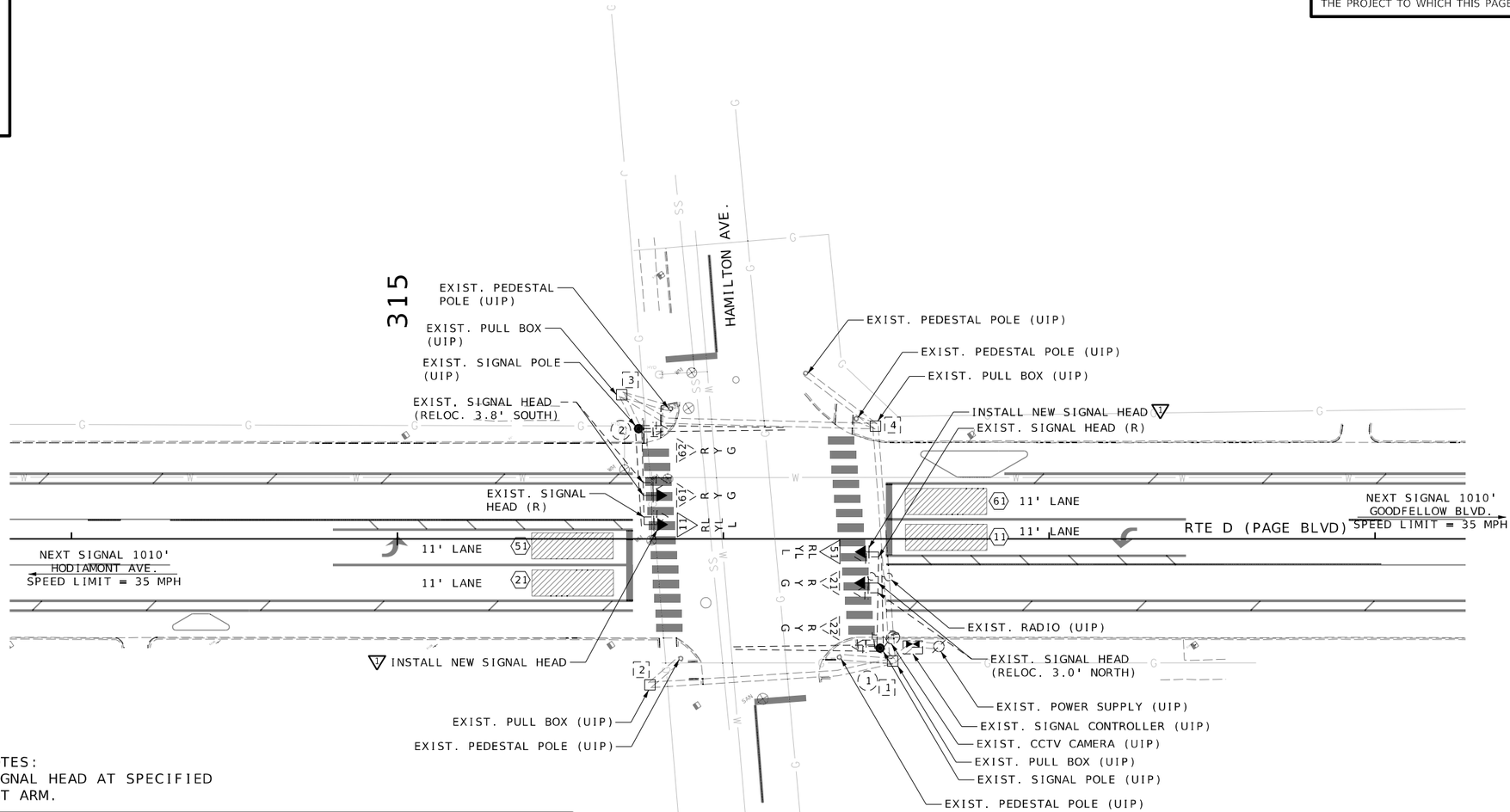
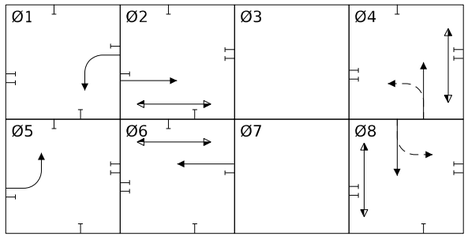


SIGNAL MODIFICATION NOTES:
INSTALL NEW RL-YL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.



TRAFFIC SIGNALS LEGEND

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- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SHEET 4 OF 99

SIGNAL PLAN SHEET

ROUTE D
HAMILTON AVENUE

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PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	112

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | | POST | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
☒	(1)	14'					80'									SIGNAL HEAD 51
☒	(2)	172'					251'									SIGNAL HEAD 11
SUBTOTALS		331'														
5% FOR SNAKING		348'														
TOTALS		350'														

EFFECTIVE: 07/01/2018

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INTERSECTION ROUTE D & HAMILTON AVE

SHEET 6 OF 99

SIGNAL SHEET

ROUTE D
HAMILTON AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 114
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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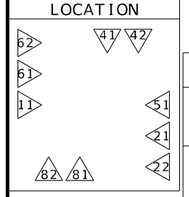
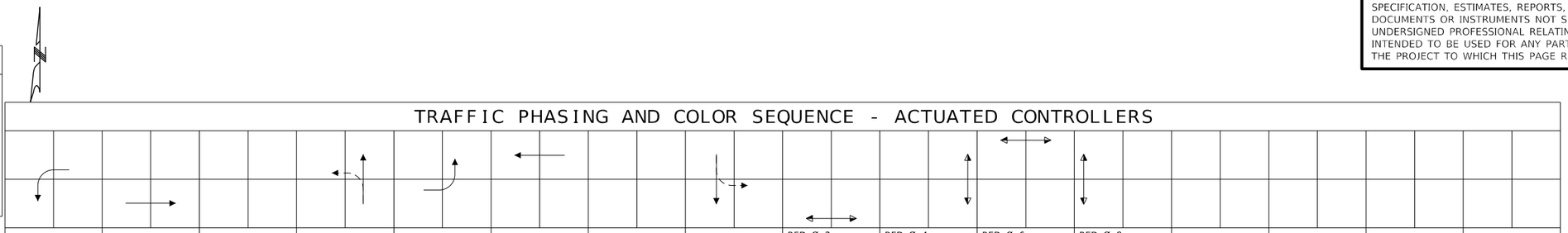
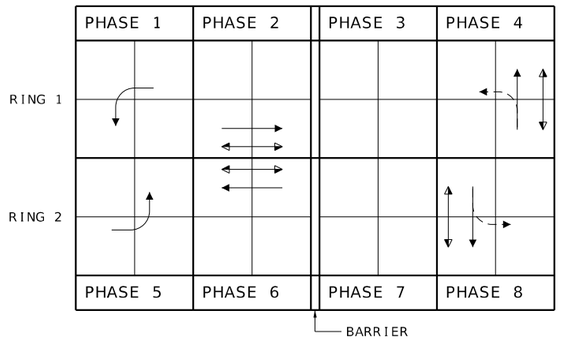
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 82	23 24	43 44	63 64	83 84	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R	RL	R		R					R
SIGNAL INDICATIONS Y	YL	Y		Y	YL	Y		Y					Y
SIGNAL INDICATIONS FYL													FYL
SIGNAL INDICATIONS G	L	G		G	L	G		G					G
DETECTOR ASSIGNMENTS	11	21 22		41 42	51	61 62		81 82					DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84	
OVERLAP PARENT PHASES													



RING STRUCTURE

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
HAMILTON AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & HAMILTON AVE

SHEET 7 OF 99

SIGNAL SHEET

ROUTE D
HAMILTON AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	115

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	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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ARCHITECT 000212
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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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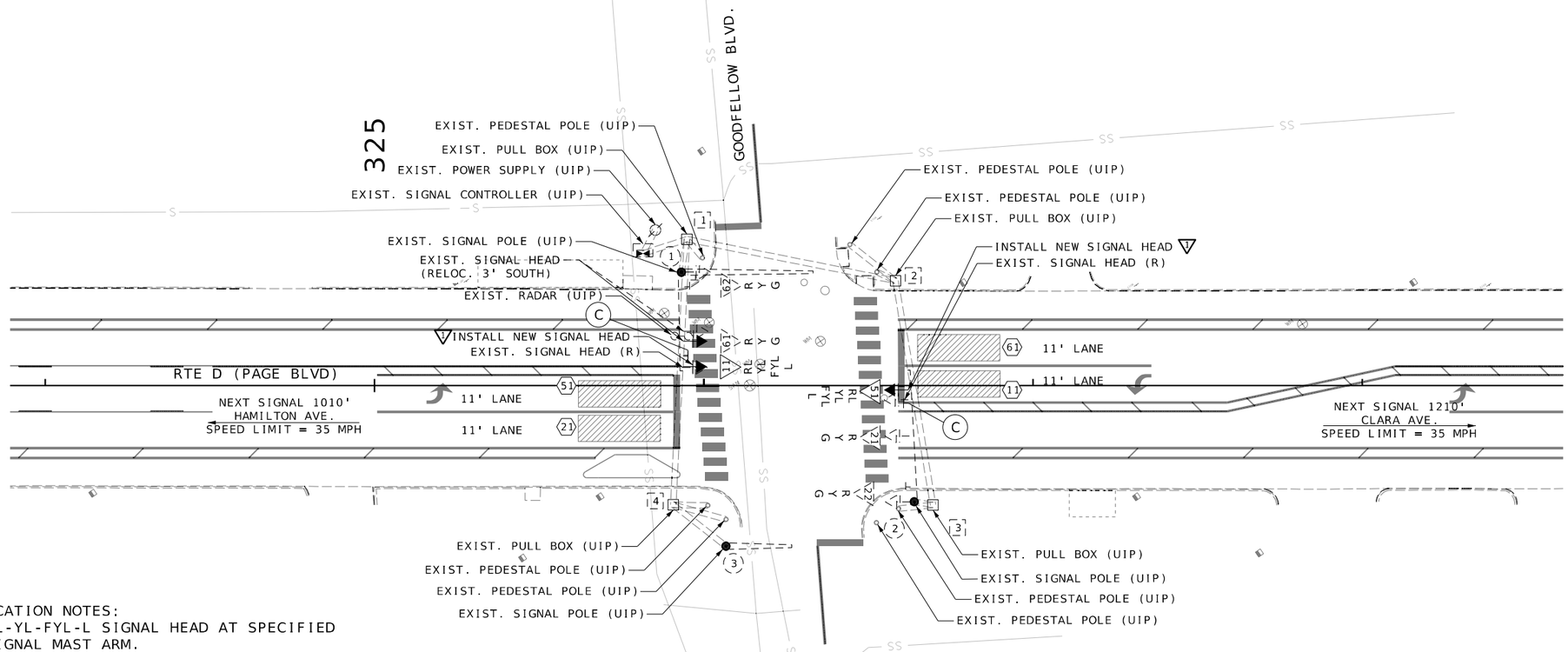


LEFT TURN YIELD ON FLASHING ARROW

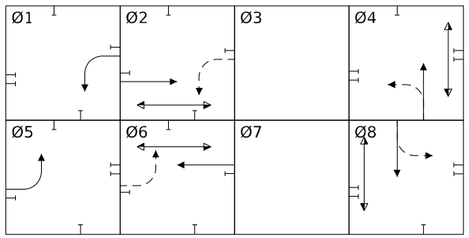
R10-27a

C

SIGNAL MODIFICATION NOTES:
INSTALL NEW RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 8 OF 99

SIGNAL PLAN SHEET

ROUTE D
GOODFELLOW BOULEVARD

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	116

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | POST | | | | | | | | | | | | | |

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(1)	25'					90'									SIGNAL HEAD 11
☒	(2)	153'					240'									SIGNAL HEAD 51
SUBTOTALS							330'									
5% FOR SNAKING							347'									
TOTALS							350'									

INTERSECTION ROUTE D & GOODFELLOW BLVD

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.

SHEET 10 OF 99

SIGNAL SHEET

ROUTE D
GOODFELLOW BOULEVARD
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	118

COUNTY ST. LOUIS

JOB NO. J6S3438

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)

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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 12-01-2017

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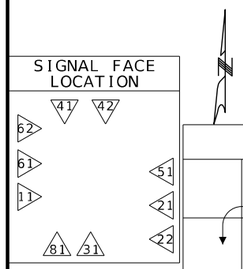
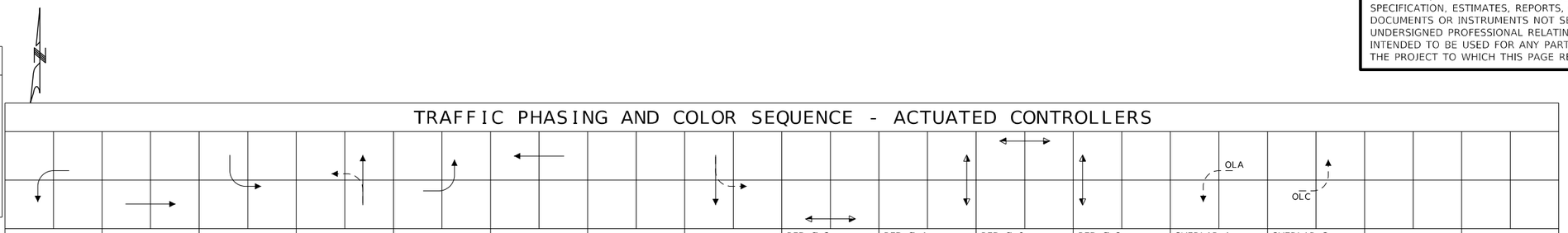
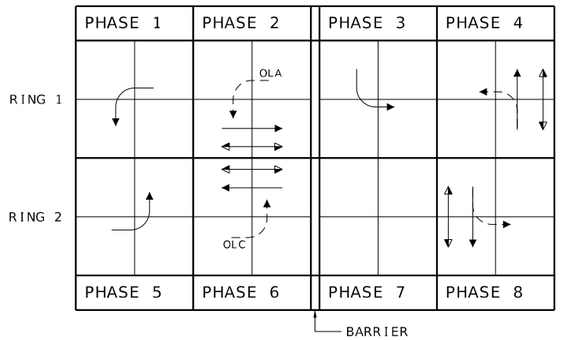


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22	31	41 42	51	61 62		81 31	23 24	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	R	R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y	YL	Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G	L	G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22	31	41 42	51	61 62		81 31							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA WBL	Ø2 EB	NOT USED	Ø4 NB	OLC FYA EBL	Ø6 WB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 WBL	NOT USED	Ø5 EBL	NOT USED

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
GOODFELLOW BLVD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & GOODFELLOW BLVD

SHEET 11 OF 99

SIGNAL SHEET

ROUTE D
GOODFELLOW BOULEVARD
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	119

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE	REV.

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

GBA
16305 SWINGLEY RIDGE RD
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314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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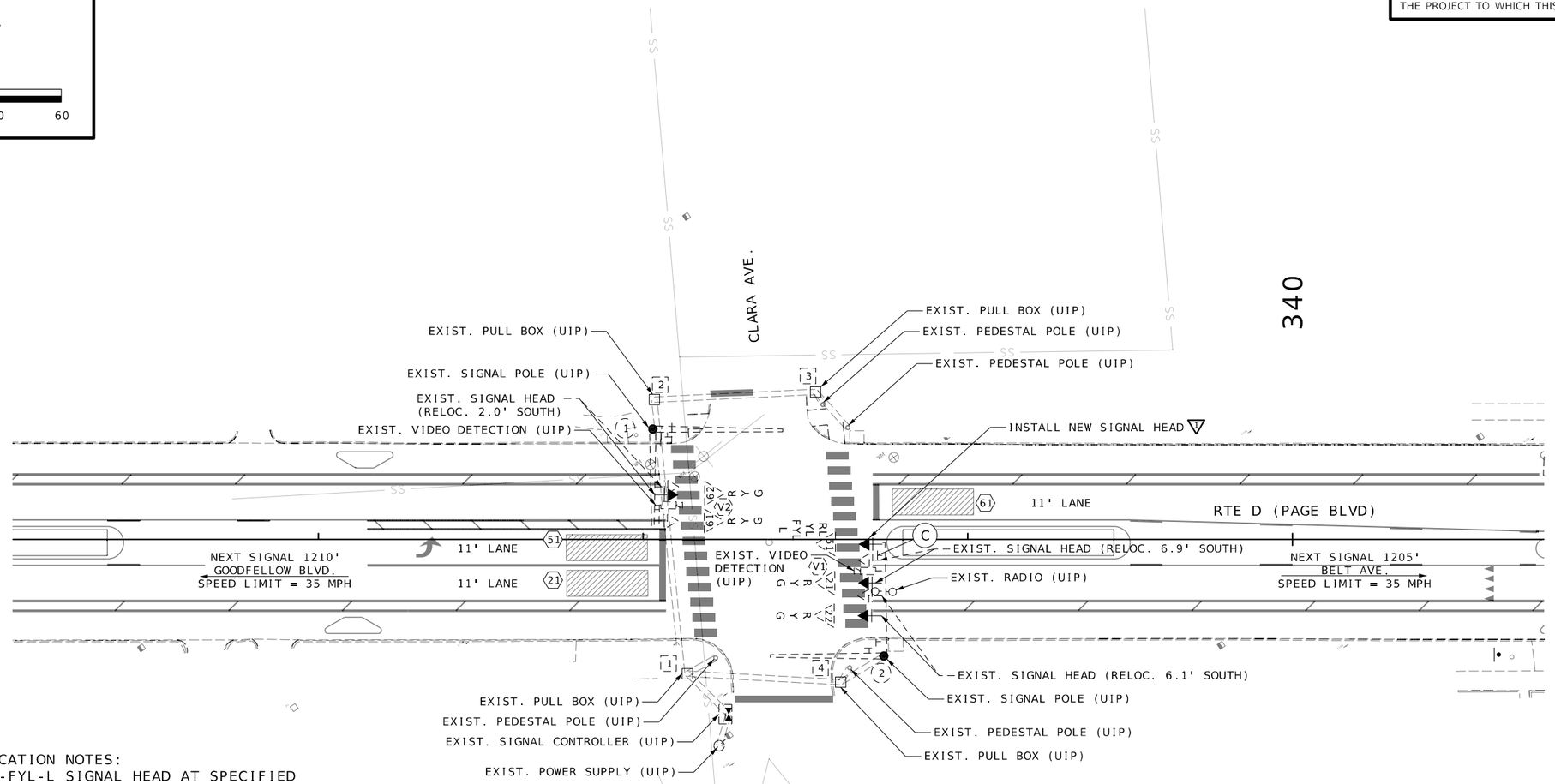
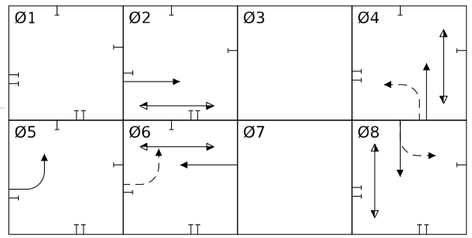


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
(C)

SIGNAL MODIFICATION NOTES:
▽ INSTALL RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SHEET 12 OF 99

SIGNAL PLAN SHEET

ROUTE D
CLARA AVENUE

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	120

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | PULL BOX | | | | | | | | | POST | | | | | | | | | | | | | |

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(2)	81'					158'									SIGNAL HEAD 51
SUBTOTALS							158'									
5% FOR SNAKING							166'									
TOTALS							170'									

INTERSECTION ROUTE D & CLARA AVE

SHEET 14 OF 99

SIGNAL SHEET

ROUTE D
CLARA AVENUE
SIGNAL QUANTITIES

D-37B

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	122

COUNTY ST. LOUIS

JOB NO. J6S3438

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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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

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

EFFECTIVE: 12-01-2017

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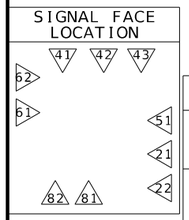
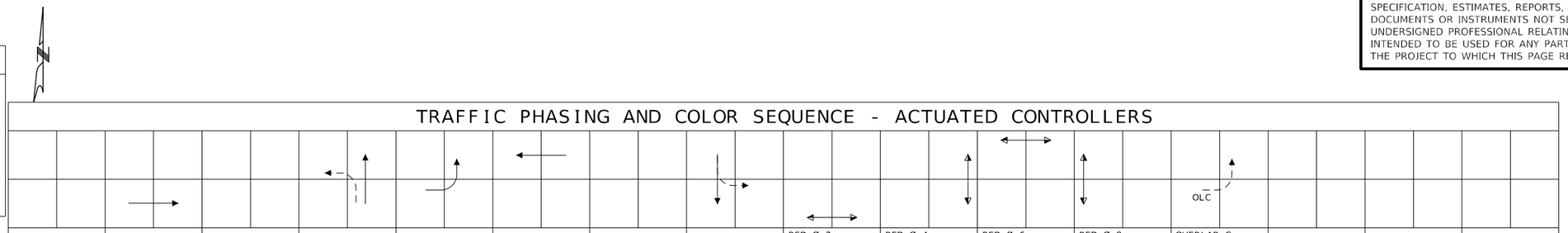
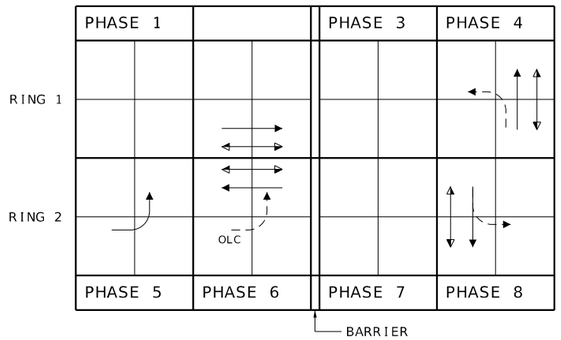


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP C	
FACE NUMBERS		21 22		41 42 43	51	61 62		81 82	23 24	44 45	63 64	83 84	51	FACE NUMBERS
SIGNAL INDICATIONS R		R		RL R	RL	R		R					RL	R
SIGNAL INDICATIONS Y		Y		YL Y	YL	Y		Y					YL	Y
SIGNAL INDICATIONS FYL					FYL								FYL	FYL
SIGNAL INDICATIONS G		G		L G	L	G		G						G
DETECTOR ASSIGNMENTS		21 22		41 42 43	51	61 62		81 82						DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84		
OVERLAP PARENT PHASES													6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
NOT USED	Ø2 EB	NOT USED	Ø4 NB	OLC FYA	Ø6 WB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								NOT USED	NOT USED	Ø5 EBL	NOT USED

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

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
CLARA AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & CLARA AVE

SHEET 15 OF 99

SIGNAL SHEET

ROUTE D
CLARA AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 123
COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION
DATE
REV.

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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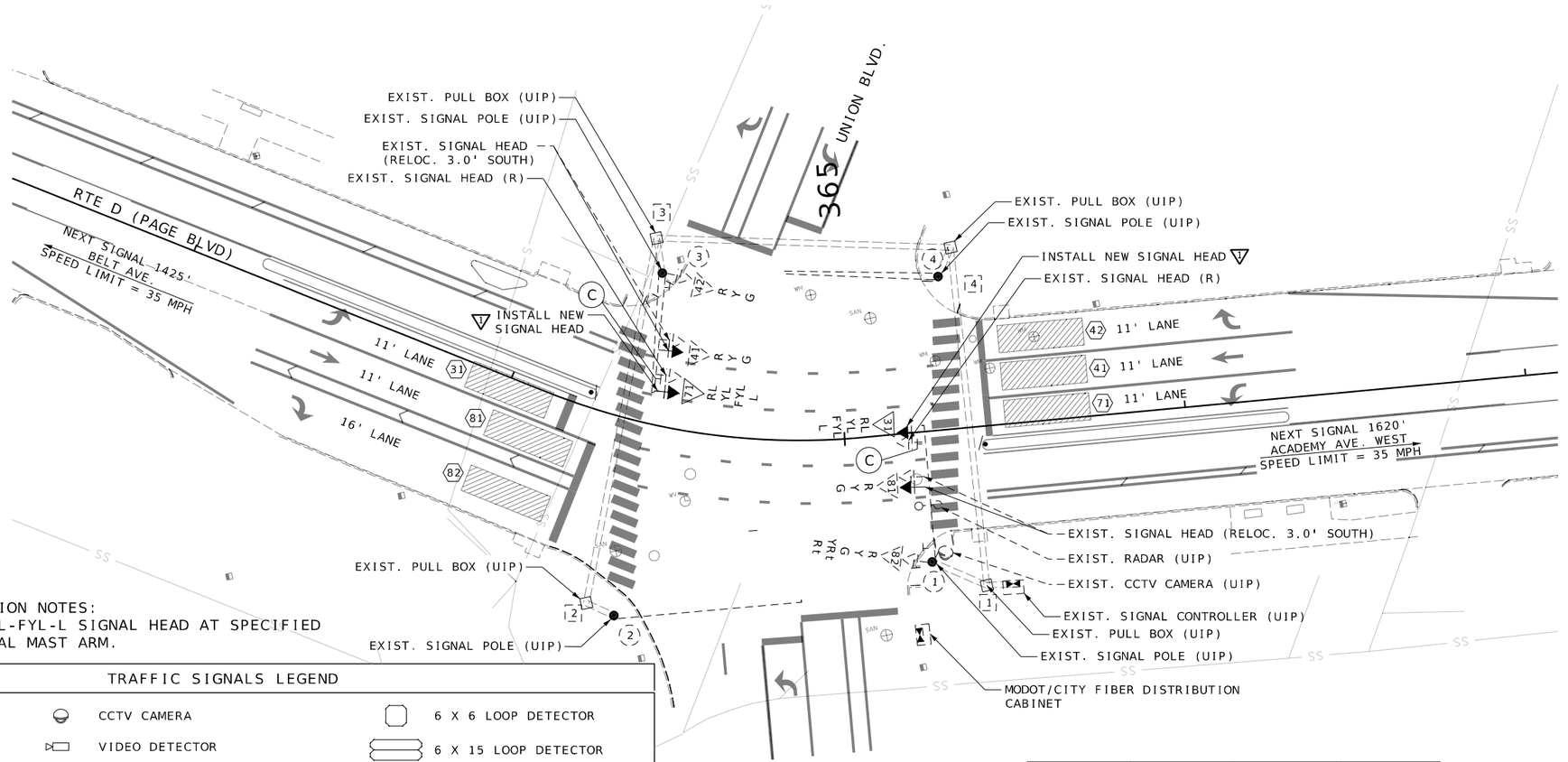
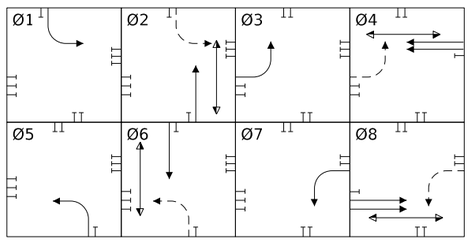


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
(C)

SIGNAL MODIFICATION NOTES:
▽ INSTALL NEW RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

TRAFFIC SIGNALS LEGEND

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



SHEET 16 OF 99

SIGNAL PLAN SHEET

ROUTE D
UNION BOULEVARD

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	124

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE	REV.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | | |

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	1	25'					100'									SIGNAL HEAD 31
☒	3	204'					287'									SIGNAL HEAD 71
SUBTOTALS		387'														
5% FOR SNAKING		407'														
TOTALS		410'														

INTERSECTION ROUTE D & UNION BLVD

DISCLAIMER
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SHEET 18 OF 99

SIGNAL SHEET

ROUTE D
UNION BOULEVARD
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 126
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

EFFECTIVE: 12-01-2017

DISCLAIMER
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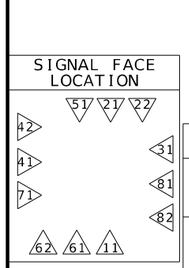
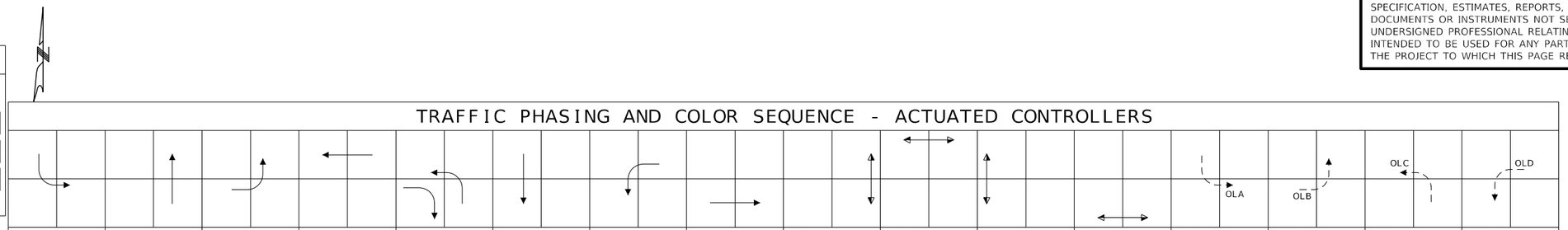
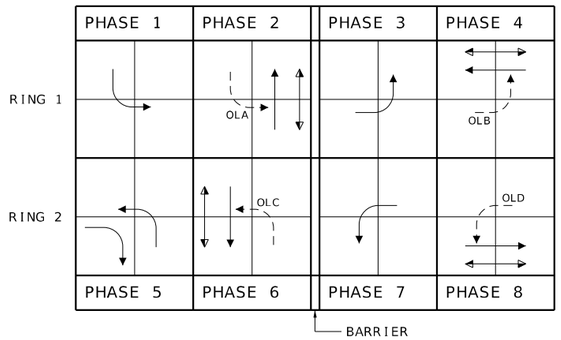
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	
FACE NUMBERS	11	21 22	31	41 42	51 82	61 62	71	81	23 24	43 44	63 64	83 84	11	31	51	71	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	RL	R	RL	R	RL	R					RL	RL	RL	RL	R
SIGNAL INDICATIONS Y	YL	Y	YL	Y	YL YRt	Y	YL	Y					YL	YL	YL	YL	Y
SIGNAL INDICATIONS FYL	FYL		FYL		FYL		FYL						FYL	FYL	FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G	L	G	L Rt	G	L	G									G
DETECTOR ASSIGNMENTS	11	21 22	31	41 42	51 82	61 62	51	81 82									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84					
OVERLAP PARENT PHASES													2	4	6	8	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA SBL	Ø2 NB	OLB FYA EBL	Ø4 WB	OLC FYA NBL	Ø6 WB	OLD FYA WBL	Ø8 EB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 SBL	Ø3 EBL	Ø5 NBL	Ø7 WBL

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
UNION BLVD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & UNION BLVD

SHEET 19 OF 99

SIGNAL SHEET

ROUTE D
UNION BOULEVARD
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 127
COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION
DATE
REV.

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

c:\bms\gba-pw-01\regan hutchinson\dms23382\127_SG_19_J6S3438.dgn 3:28:59 PM 1/30/2026

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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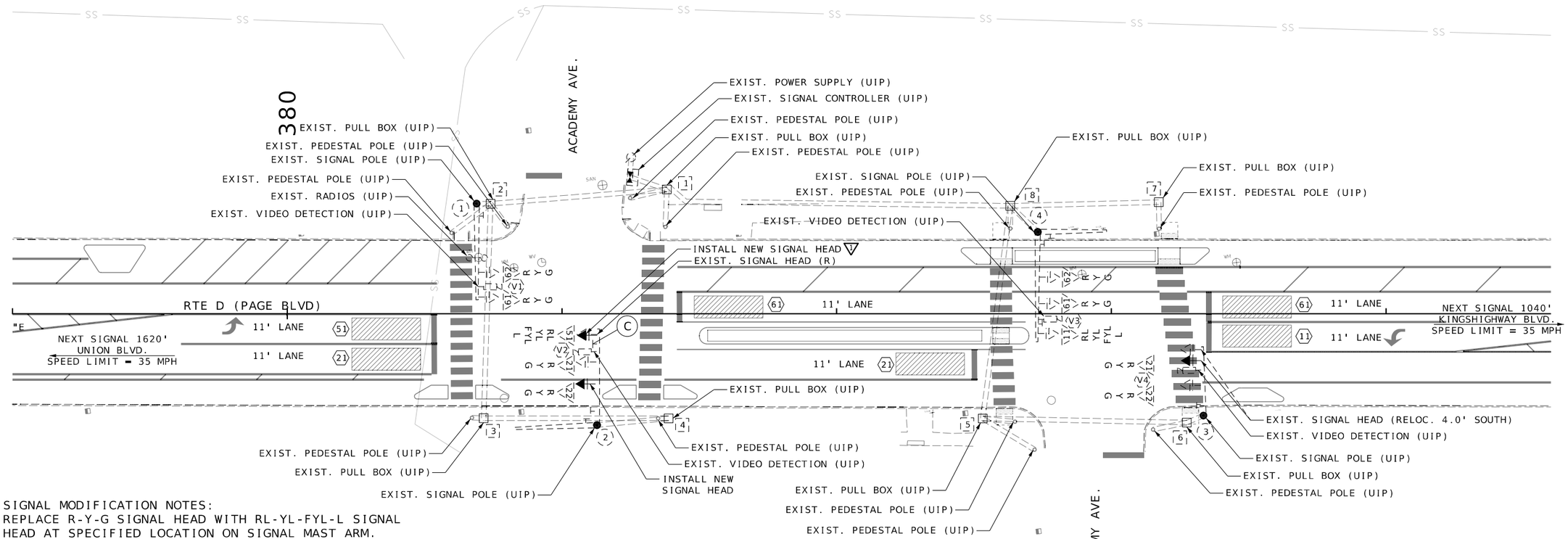
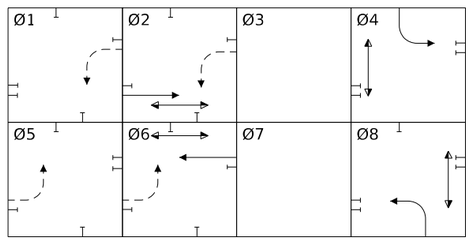


SIGNAL MODIFICATION NOTES:
▽1 REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 20 OF 99

SIGNAL PLAN SHEET

ROUTE D
ACADEMY AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	128

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | POST | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(2)	250'					320'									SIGNAL HEAD 22
☒	(2)	250'					338'									SIGNAL HEAD 51
SUBTOTALS							658'									
5% FOR SNAKING							691'									
TOTALS							700'									

INTERSECTION ROUTE D & ACADEMY AVE

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SHEET 22 OF 99

SIGNAL SHEET

ROUTE D
ACADEMY AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO

DISTRICT SL | SHEET NO. 130

COUNTY ST. LOUIS

JOB NO. J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

EFFECTIVE: 12-01-2017

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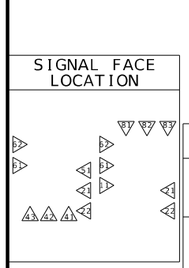
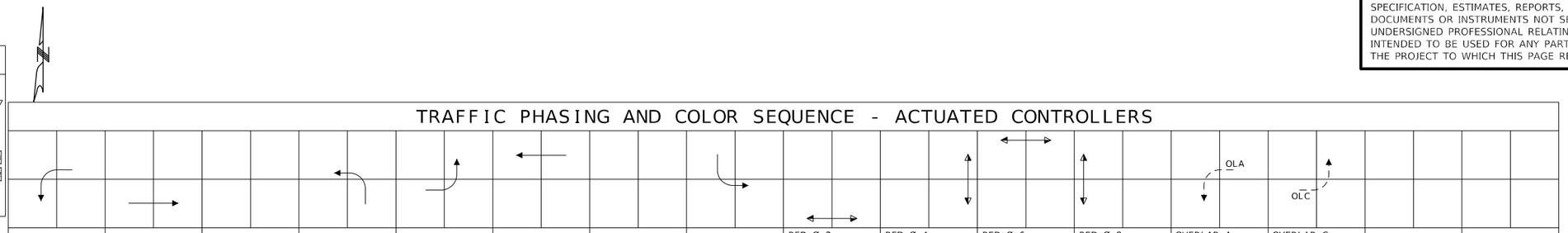
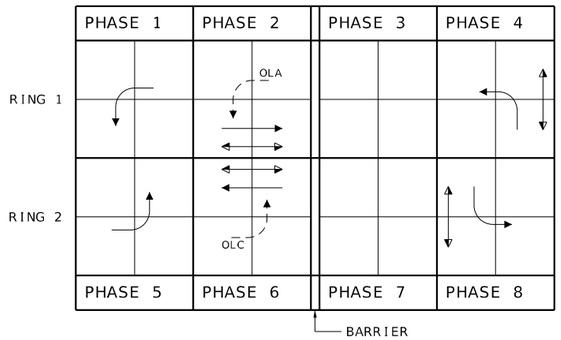
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22		41 43 42	51	61 62		81 83 82	23 24	44 45	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R R	RL	R		R R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y		Y Y	YL	Y		Y Y					YL	YL	Y
SIGNAL INDICATIONS FYL	FYL				FYL								FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G G	L	G		G G							G
DETECTOR ASSIGNMENTS	11	21 22		41 43 42	51	61 62		81 83 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	44 45	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA	Ø2 EB	NOT USED	Ø4 NB	OLC FYA	Ø6 WB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 WBL	NOT USED	Ø5 EBL	NOT USED

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

LEGEND

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

FLASHING OPERATION

ROUTE D	FR
ACADEMY AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & ACADEMY AVE

SHEET 23 OF 99

SIGNAL SHEET

ROUTE D
ACADEMY AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	131

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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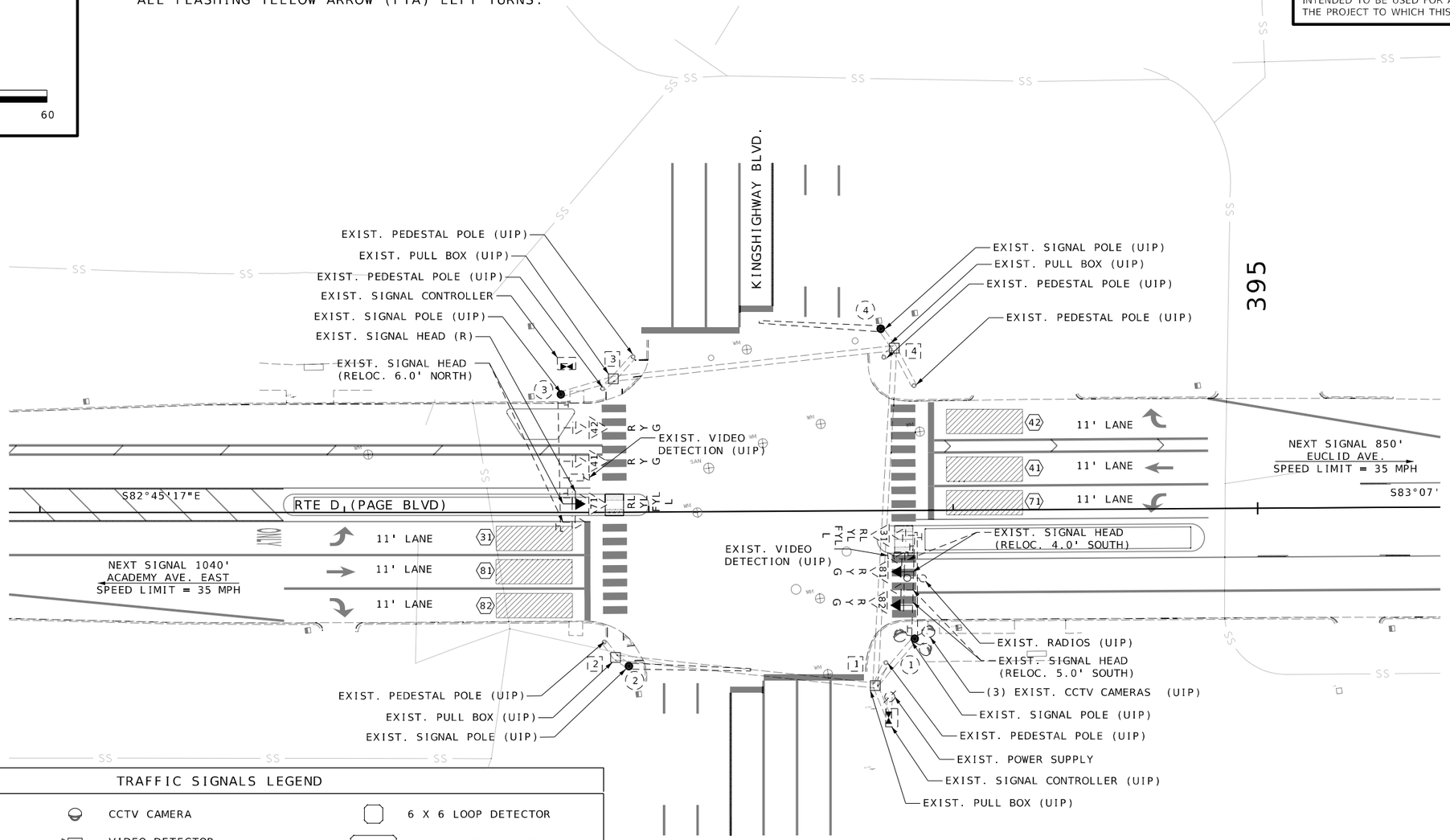
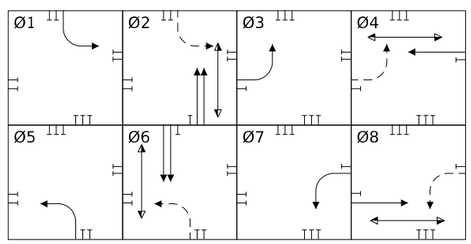


TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 24 OF 99

SIGNAL PLAN SHEET

ROUTE D
KINGSHIGHWAY BOULEVARD

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	132

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | | POST | | | | | | | | | | | | | |

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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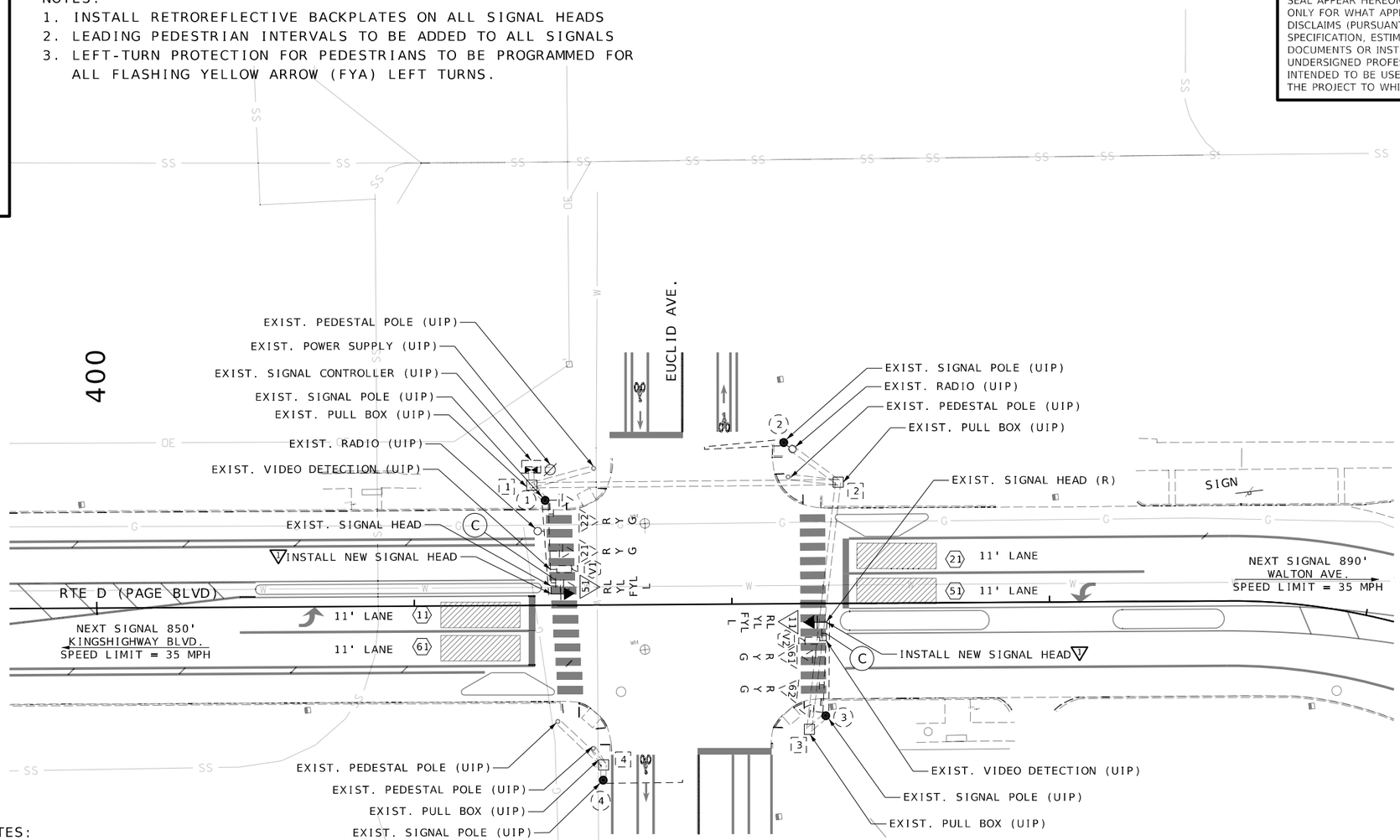

LEFT TURN YIELD ON FLASHING ARROW
R10-27a

(C)

SIGNAL MODIFICATION NOTES:
▽ REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
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- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
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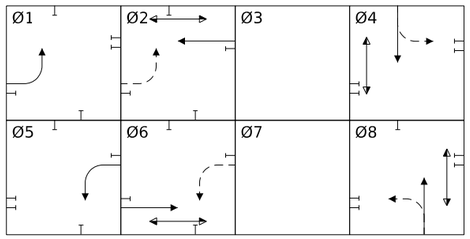

SHEET 26 OF 99

SIGNAL PLAN SHEET

ROUTE D
EUCLID AVENUE

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	134

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | | POST | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		

EFFECTIVE: 12-01-2017

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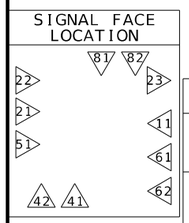
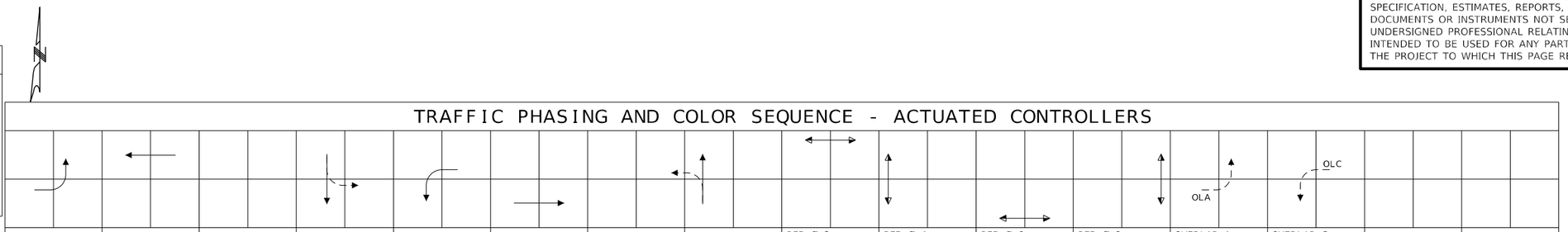
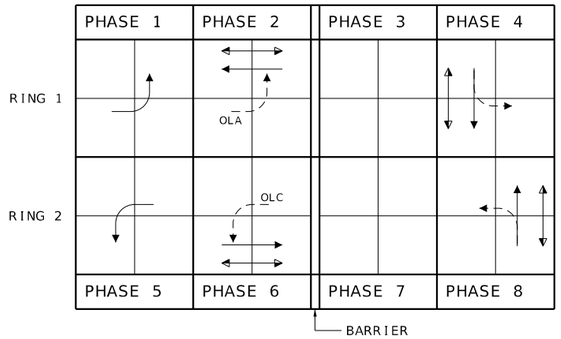
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 23 22		41 42	51	61 62		81 82	24 25	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R R		R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y Y		Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G G		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 23 22		41 42	51	61 62		81 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									24 25	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA EBL	Ø2 WB	NOT USED	Ø4 SB	OLC FYA WBL	Ø6 EB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 EBL	NOT USED	Ø5 WBL	NOT USED

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

LEGEND

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

FLASHING OPERATION

ROUTE D	FR
EUCLID AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & EUCLID AVE

SHEET 29 OF 99

SIGNAL SHEET

ROUTE D
EUCLID AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	137

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE	REV.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

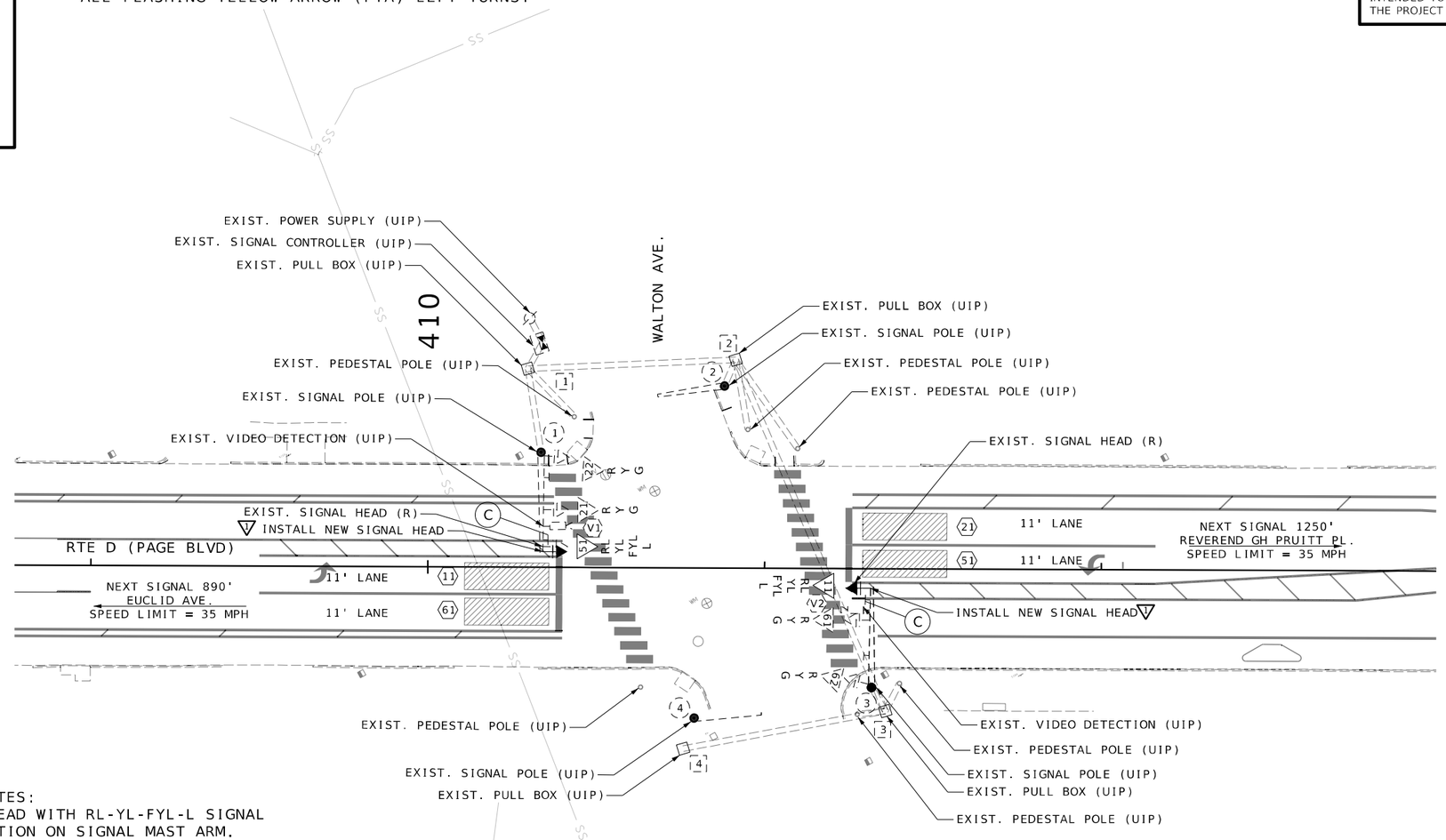
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.



LEFT TURN YIELD ON FLASHING ARROW

R10-27a

C

SIGNAL MODIFICATION NOTES:
▽ REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

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
- RADAR
- 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
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- CONDUIT EXISTING
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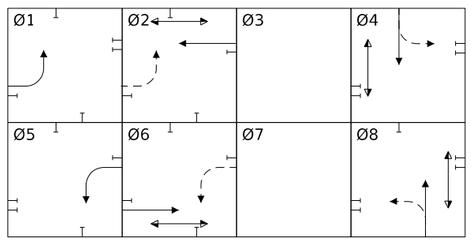
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	138

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 30 OF 99

SIGNAL PLAN SHEET

ROUTE D
WALTON AVENUE

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(1)	34'					99'									SIGNAL HEAD 51
☒	(3)	192'					271'									SIGNAL HEAD 11
SUBTOTALS		370'														
5% FOR SNAKING		389'														
TOTALS		390'														

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	140

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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INTERSECTION ROUTE D & WALTON AVE

SHEET 32 OF 99

SIGNAL SHEET

ROUTE D
WALTON AVENUE
SIGNAL QUANTITIES

D-37B

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 12-01-2017

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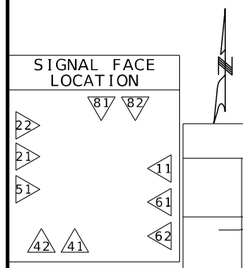
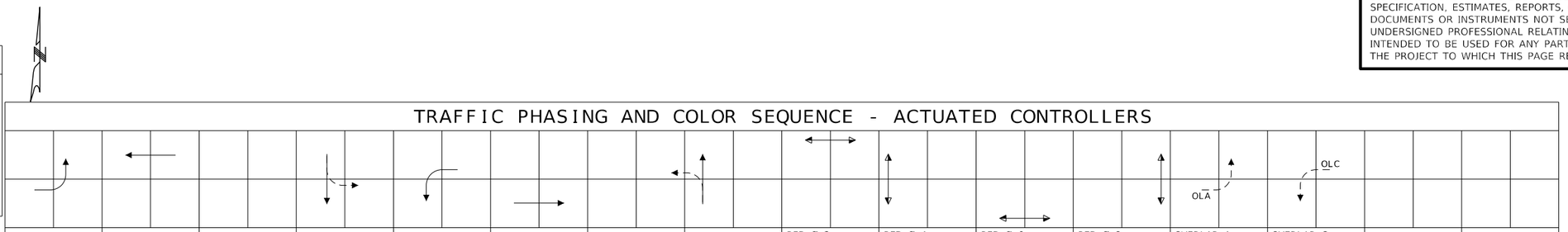
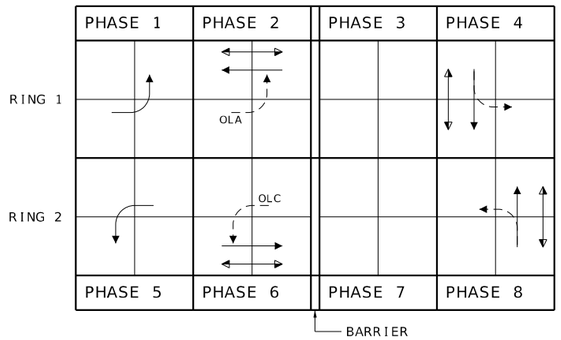


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 82	23 24	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y		Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22		41 42	51	61 62		81 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA EBL	Ø2 WB	NOT USED	Ø4 SB	OLC FYA WBL	Ø6 EB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
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LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
WALTON AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & WALTON AVE

SHEET 33 OF 99

SIGNAL SHEET

ROUTE D
WALTON AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	141

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS

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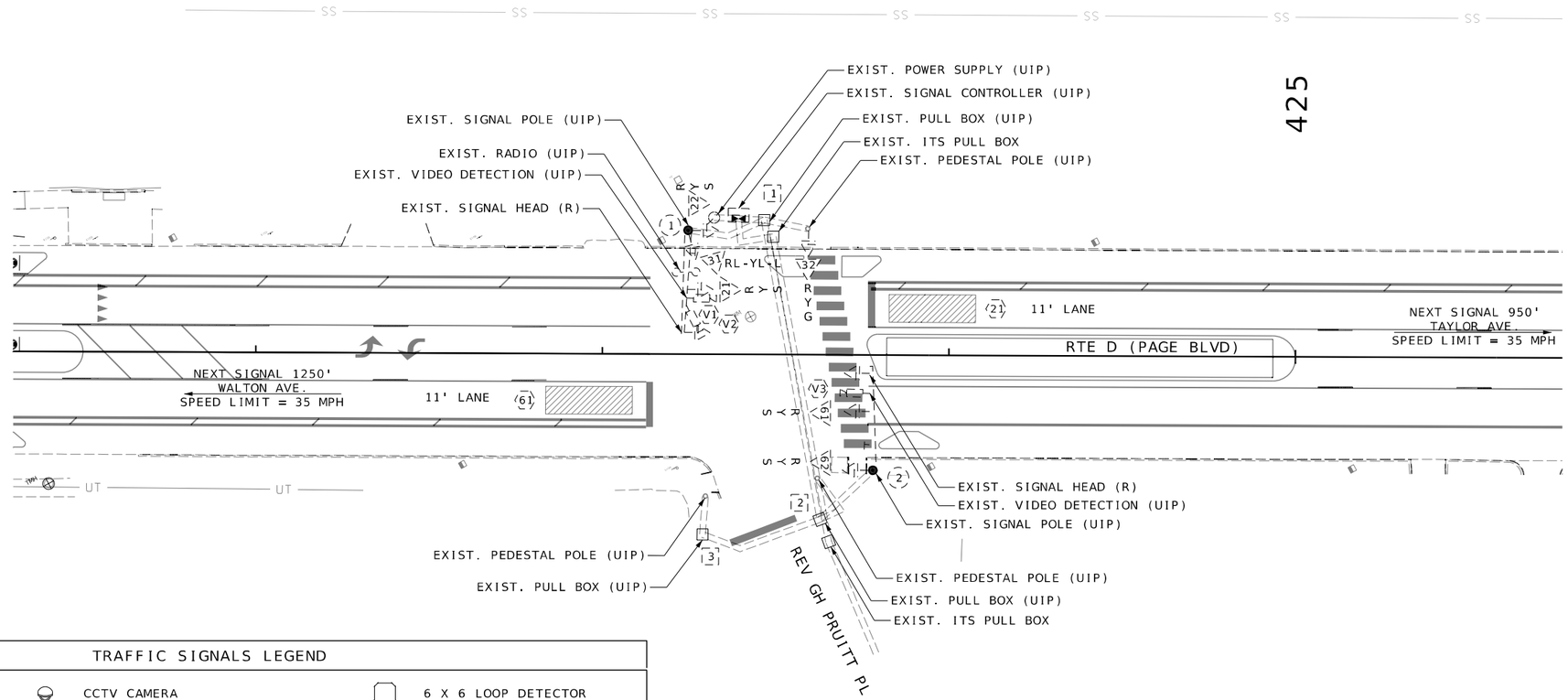
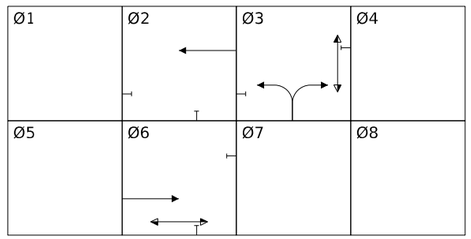


TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 34 OF 99

SIGNAL PLAN SHEET

ROUTE D
REV GH PRUITT PLACE

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	142

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | DRAIN TYPE* | | | TOP MOUNT POST | | POST | | | | | | | | | | | | | |

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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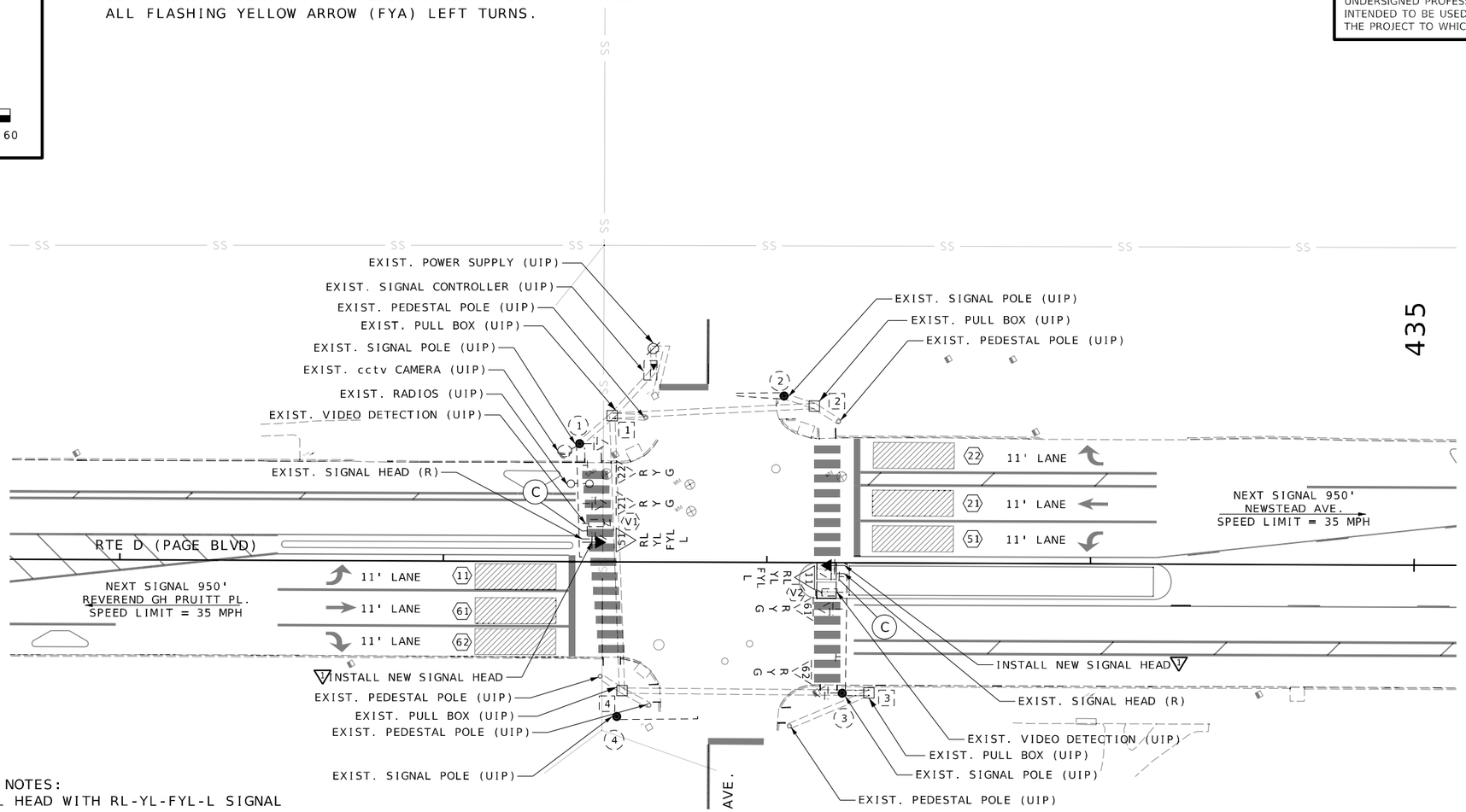

LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

SIGNAL MODIFICATION NOTES:
▽ REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
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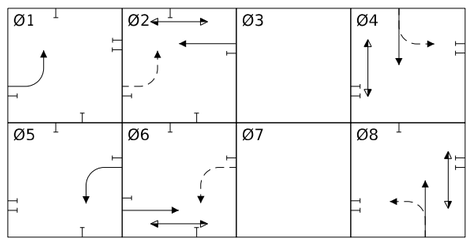
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 36 OF 99

SIGNAL PLAN SHEET

ROUTE D
TAYLOR AVENUE

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	144

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(1)	32'					98'									SIGNAL HEAD 51
☒	(3)	189'					274'									SIGNAL HEAD 11
SUBTOTALS							372'									
5% FOR SNAKING							391'									
TOTALS							400'									

INTERSECTION ROUTE D & TAYLOR AVE

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SHEET 38 OF 99

SIGNAL SHEET

ROUTE D
TAYLOR AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 146
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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

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16305 SWINGLEY RIDGE RD
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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

EFFECTIVE: 12-01-2017

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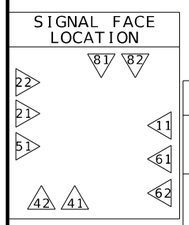
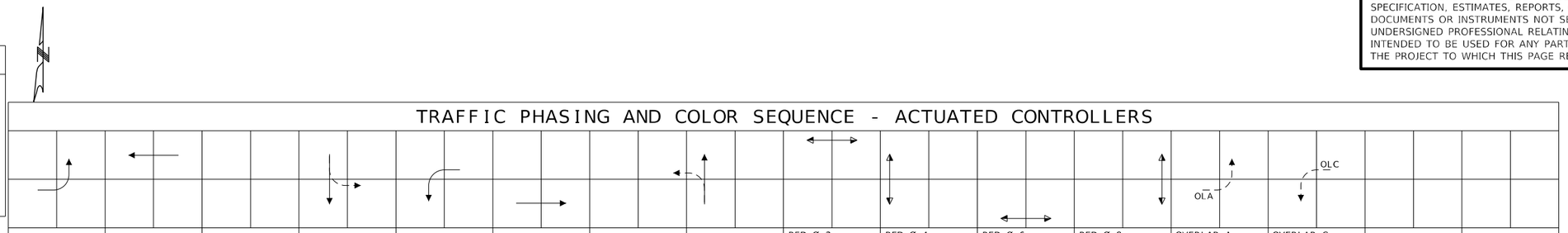
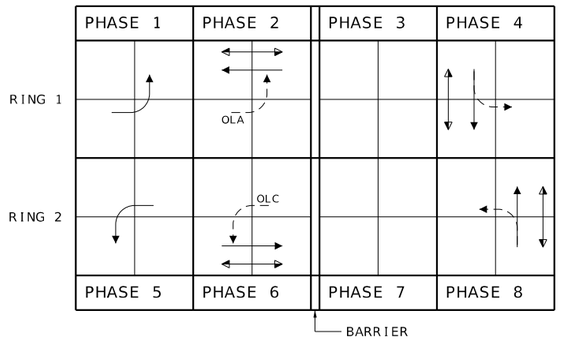
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 82	23 24	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y		Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22		41 42	51	61 62		81 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA EBL	Ø2 WB	NOT USED	Ø4 SB	OLC FYA WBL	Ø6 EB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 EBL	NOT USED	Ø5 WBL	NOT USED

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
TAYLOR AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & TAYLOR AVE

SHEET 39 OF 99

SIGNAL SHEET

ROUTE D
TAYLOR AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	147

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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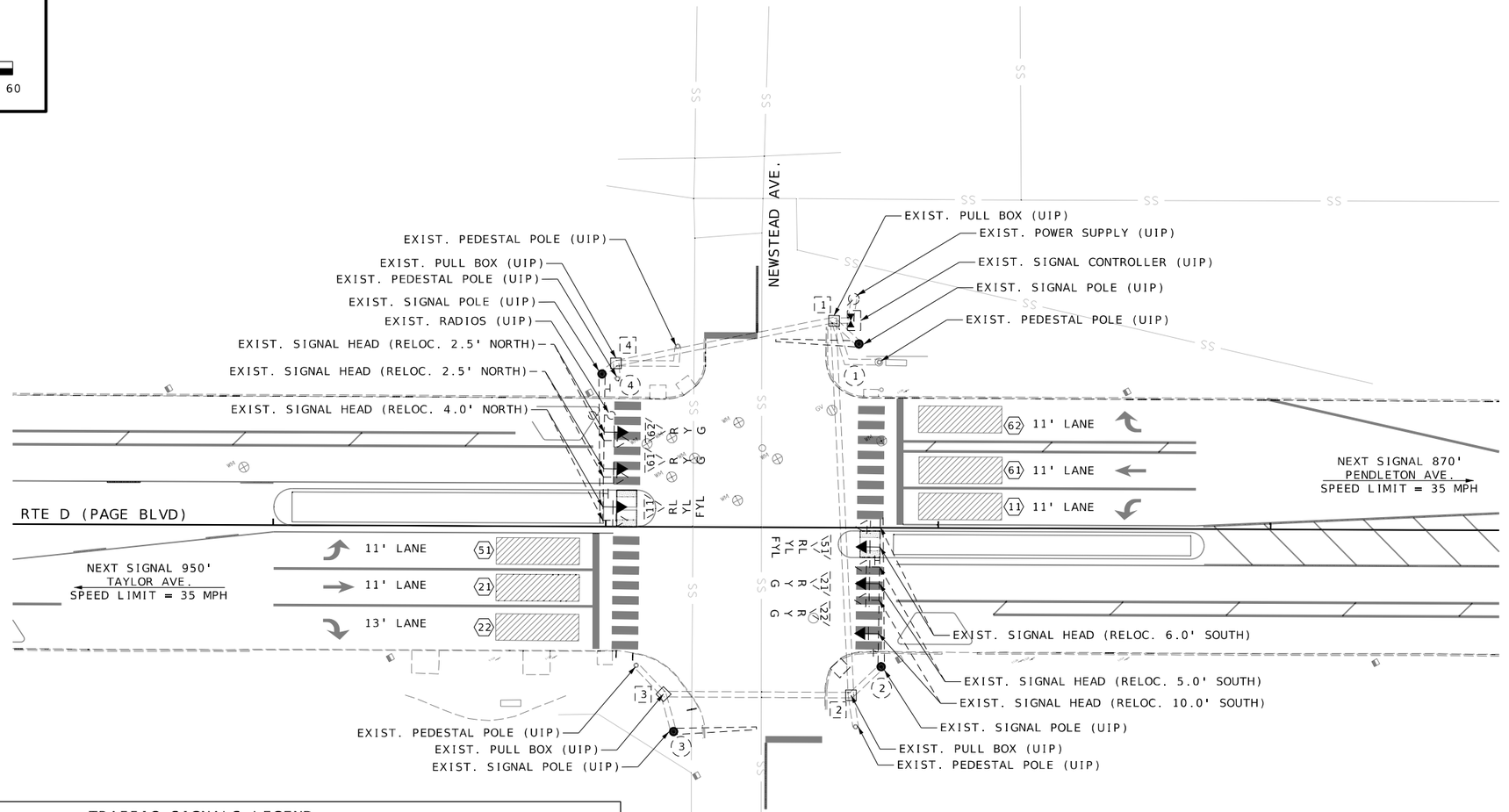

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
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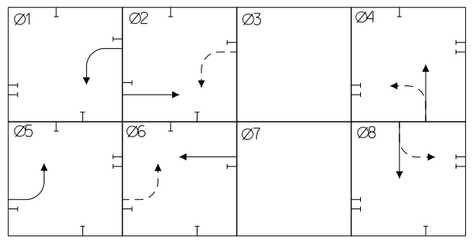
- MAST ARM - TYPE F BASE



SHEET 40 OF 99

SIGNAL PLAN SHEET

ROUTE D
NEWSTEAD AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	148

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | | POST | | | | | | | | | | | | | |

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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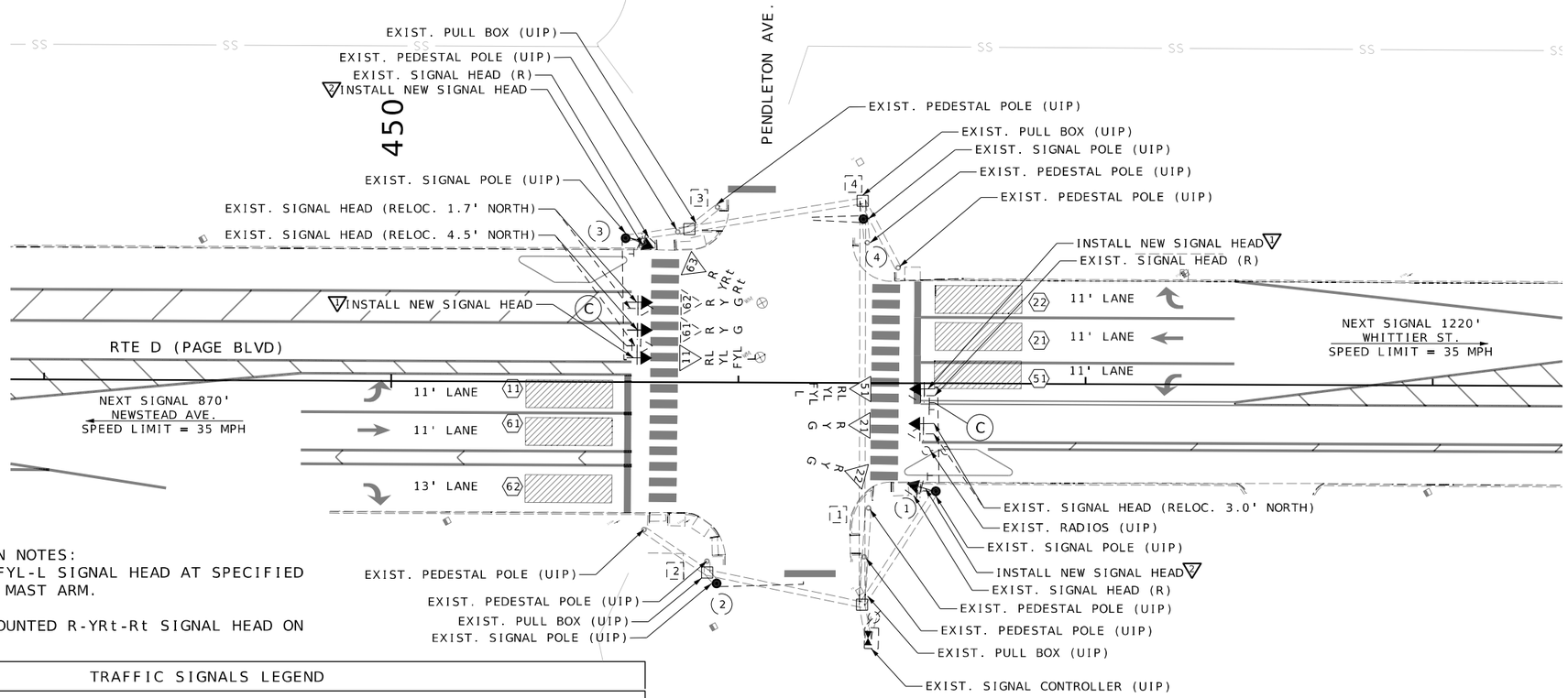


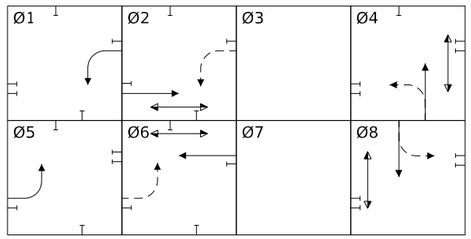
LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

SIGNAL MODIFICATION NOTES:
1 INSTALL NEW RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

7 INSTALL NEW SIDE-MOUNTED R-YRt-Rt SIGNAL HEAD ON SIGNAL POLE.

TRAFFIC SIGNALS LEGEND

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



SHEET 42 OF 99

SIGNAL PLAN SHEET

ROUTE D
PENDLETON AVENUE

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	150

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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)

GBA
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
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PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | DRAIN TYPE* | | | POST | | | | | | | | | | | | | |

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(1)	49'					115'									SIGNAL HEAD 51
☒	(1)	49'					78'									SIGNAL HEAD 22
☒	(3)	195'					279'									SIGNAL HEAD 11
☒	(3)	195'					237'									SIGNAL HEAD 63
SUBTOTALS							709'									
5% FOR SNAKING							745'									
TOTALS							750'									

INTERSECTION ROUTE D & PENDLETON AVE

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
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO

DISTRICT SL | SHEET NO. 152

COUNTY ST. LOUIS

JOB NO. J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 44 OF 99

SIGNAL SHEET

ROUTE D
PENDLETON AVENUE
SIGNAL QUANTITIES

D-37B

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

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

EFFECTIVE: 12-01-2017

DISCLAIMER
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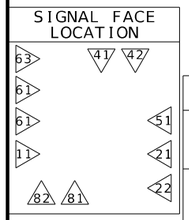
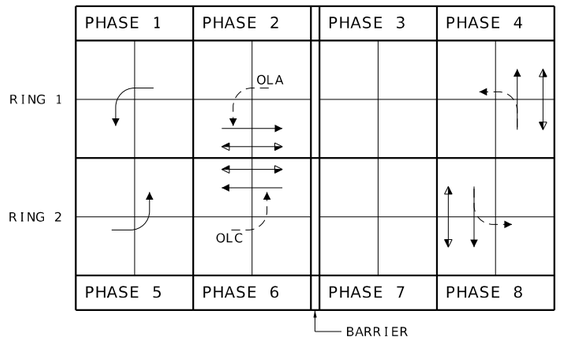


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 82	23 24	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R R		R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y YRt		Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G Rt		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22 23		41 42	51	61 62		81 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA WBL	Ø2 EB	NOT USED	Ø4 NB	OLC FYA EBL	Ø6 WB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 WBL	NOT USED	Ø5 EBL	NOT USED

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

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
PENDLETON AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & PENDLETON AVE

SHEET 45 OF 99

SIGNAL SHEET

ROUTE D
PENDLETON AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 153
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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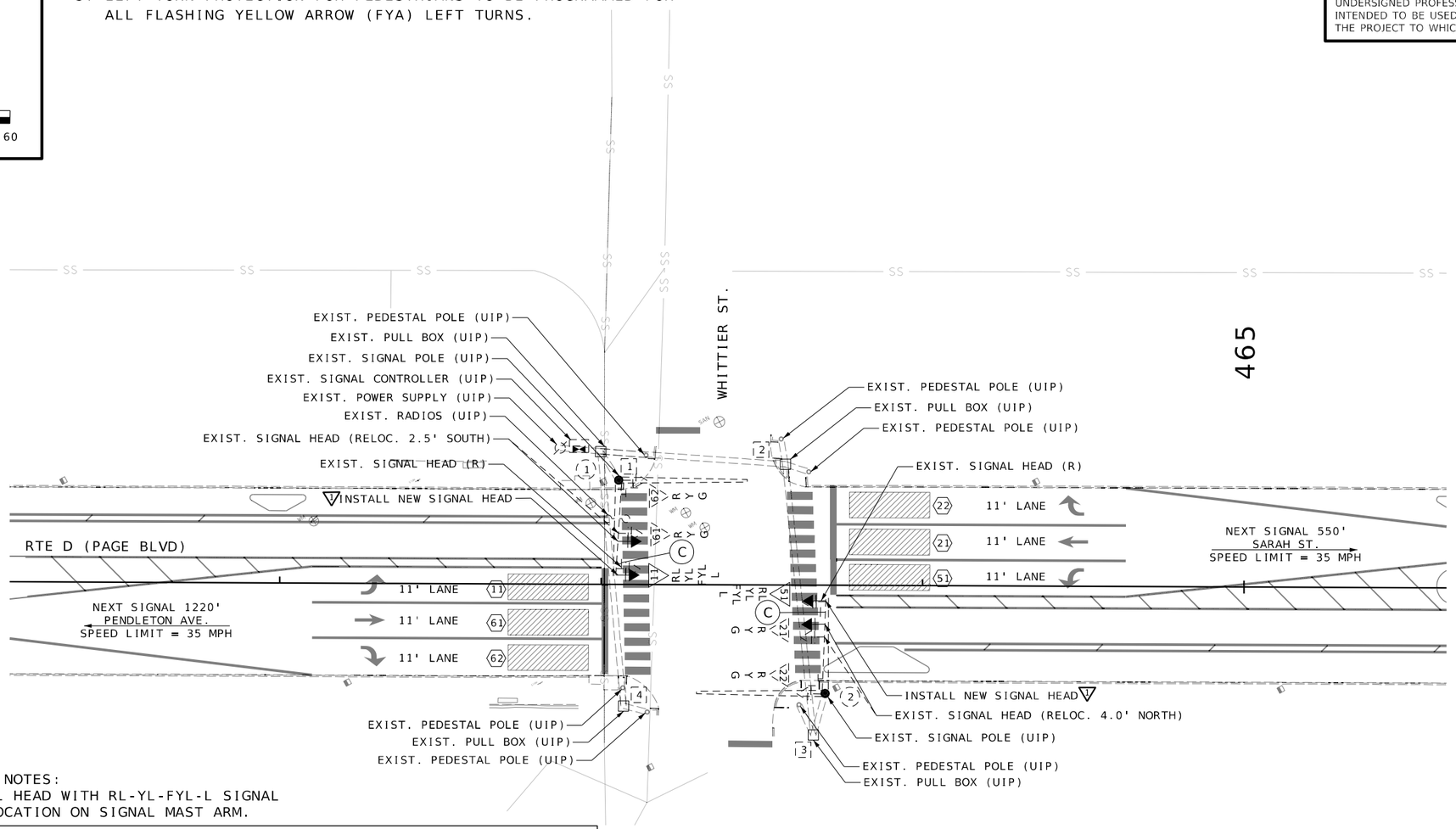
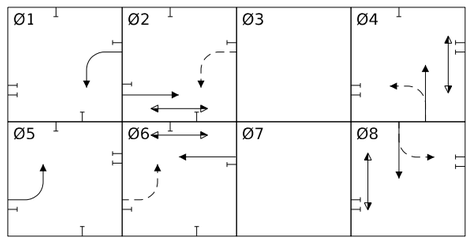


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

SIGNAL MODIFICATION NOTES:
▽ REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 46 OF 99

SIGNAL PLAN SHEET

ROUTE D
WHITTIER STREET

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	154

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(1)	17'					84'									SIGNAL HEAD 11
☒	(2)	163'					240'									SIGNAL HEAD 51
SUBTOTALS		324'														
5% FOR SNAKING		341'														
TOTALS		350'														

INTERSECTION ROUTE D & WHITTIER ST

SHEET 48 OF 99

SIGNAL SHEET

ROUTE D
WHITTIER STREET
SIGNAL QUANTITIES

D-37B

DISCLAIMER
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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	156

COUNTY ST. LOUIS

JOB NO. J6S3438

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

c:\bms\gba-pw-01\regan hutchinson\dms23382\156_SG_48_J6S3438.dgn 3:46:28 PM 1/30/2026

EFFECTIVE: 12-01-2017

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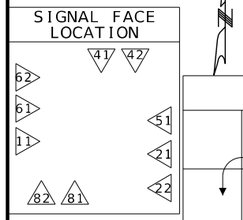
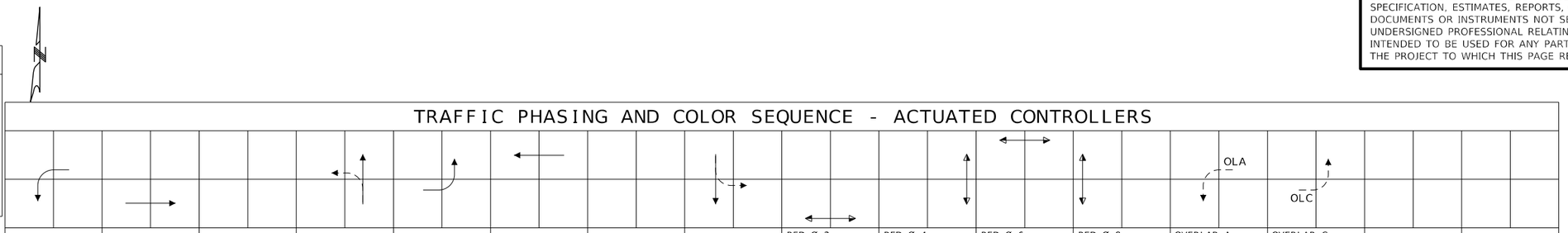
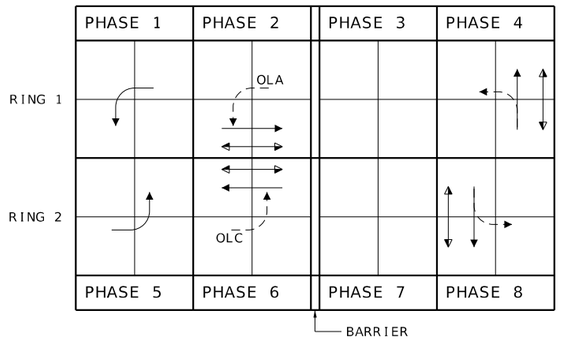


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21		41	51	61		81	23	43	63	83	11	51	FACE NUMBERS
		22		42		62		82	24	44	64	84			
SIGNAL INDICATIONS R	RL	R		R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y		Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22		41 42	51	61 62		81 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA WBL	Ø2 EB	NOT USED	Ø4 NB	OLC FYA EBL	Ø6 WB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 WBL	NOT USED	Ø5 EBL	NOT USED

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

LEGEND

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

FLASHING OPERATION

ROUTE D	FR
WHITTIER ST	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & WHITTIER ST

SHEET 49 OF 99

SIGNAL SHEET

ROUTE D
WHITTIER STREET
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	157

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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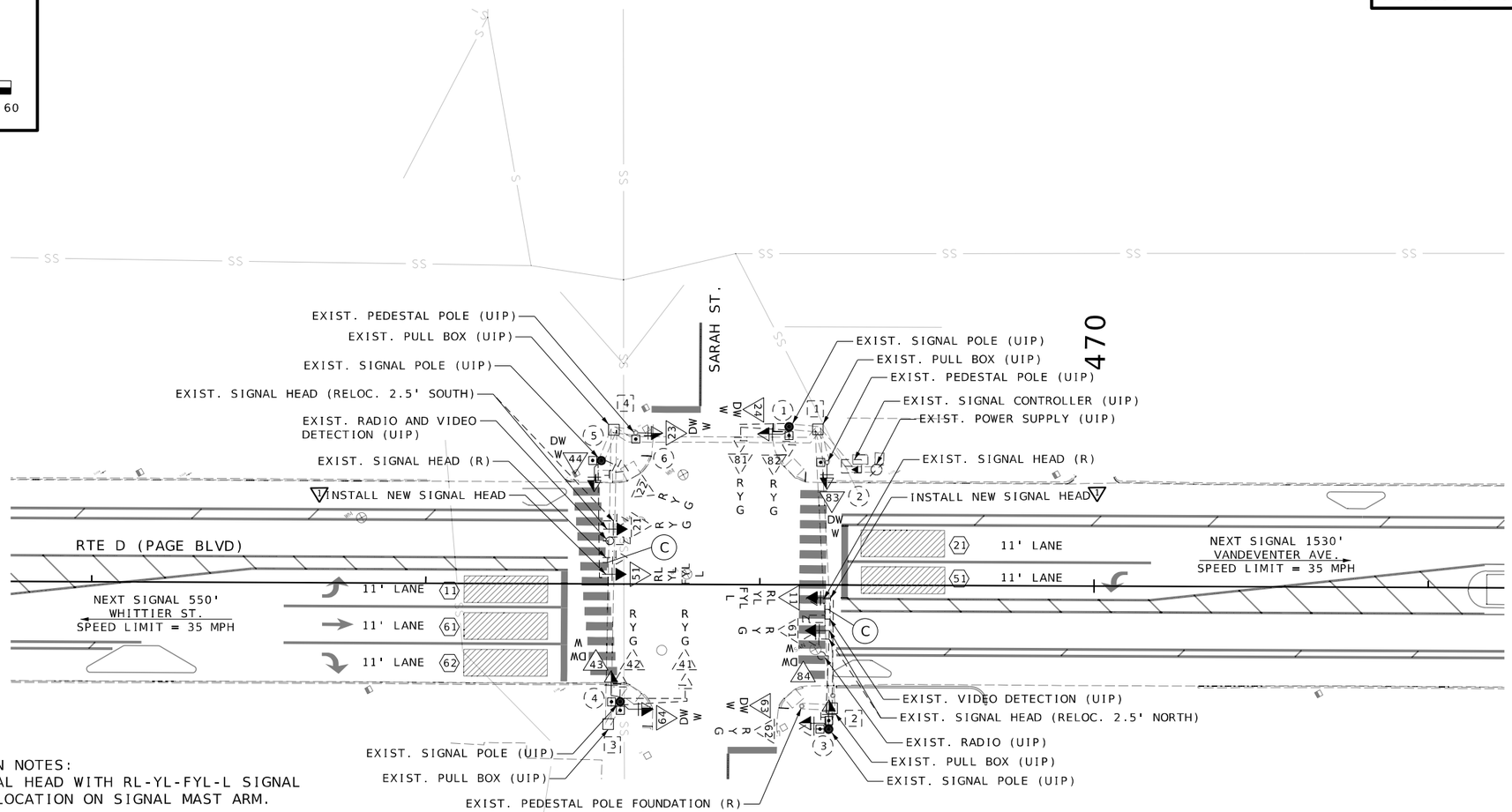
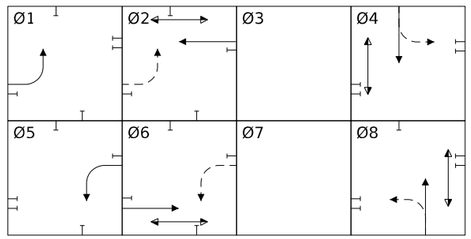


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

SIGNAL MODIFICATION NOTES:
▽ REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

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
- RADAR
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SHEET 50 OF 99

SIGNAL PLAN SHEET

ROUTE D
SARAH STREET

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

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	158

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A: 9	A: 9.5	A: 10	A: 10.5	A: 11	A: 12	F: 9	F: 9.5	F: 10	F: 10.5	F: 11	F: 12	C	CONCRETE** (CU. YDS.)
		CONTROLLER	(AS REQ'D)															
	1	ROUTE D	EXISTING															
	2	ROUTE D	EXISTING															
	3	ROUTE D	EXISTING															
	4	ROUTE D	EXISTING															
1		ROUTE D	EXISTING															
2		ROUTE D	EXISTING															
3		ROUTE D	EXISTING															
4		ROUTE D	EXISTING															
5		ROUTE D	EXISTING															
6		ROUTE D	EXISTING															
				SUBTOTAL														
				TOTAL														

PULL BOX: PREFORMED: CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE: STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	DRAIN TYPE*	POST: TOP MOUNT POST: 8 FT.	15 FT.	TYPE C & CL: ARM LENGTH: A	A	A	A	SIGNAL SPACING: B	C	D	D'	SIGN SPACING: B	C	D	D'	TYPE B & BL: ARM LENGTH: E	K	E	K	E	K	LEFT ARM E: SIGNAL SPACING: F	G	H	H'	SIGN SPACING: F	G	H	H'	RIGHT ARM K: SIGNAL SPACING: L	M	N	N'	SIGN SPACING: L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM*: 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
								I	II: A	B	C																																							

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
☒	(3)	106'					188'									SIGNAL HEAD 11
☒	(5)	89'					166'									SIGNAL HEAD 51
SUBTOTALS							354'									
5% FOR SNAKING							372'									
TOTALS							370'									

INTERSECTION ROUTE D & SARAH ST

SHEET 52 OF 99

SIGNAL SHEET

ROUTE D
SARAH STREET
SIGNAL QUANTITIES

D-37B

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	160

COUNTY ST. LOUIS

JOB NO. J6S3438

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)

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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

c:\bms\gba-pw-01\regan hutchinson\dms23382\160_SG_52_J6S3438.dgn 3:49:55 PM 1/30/2026

EFFECTIVE: 12-01-2017

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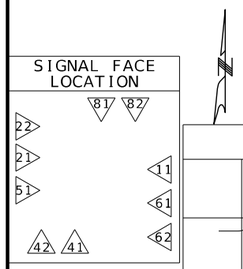
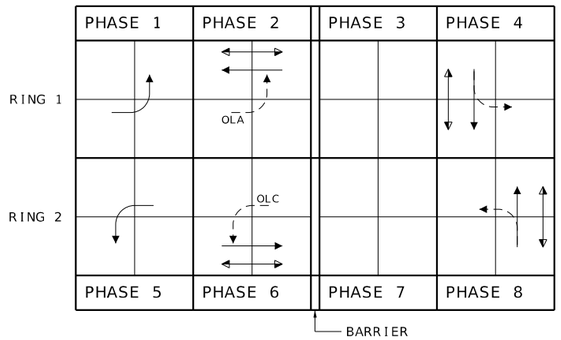


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 82	23 24	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y		Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL													FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22		41 42	51	61 62		81 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA EBL	Ø2 WB	NOT USED	Ø4 SB	OLC FYA WBL	Ø6 EB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 EBL	NOT USED	Ø5 WBL	NOT USED

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
SARAH ST	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & SARAH ST

SIGNAL SHEET

ROUTE D
SARAH STREET
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	161

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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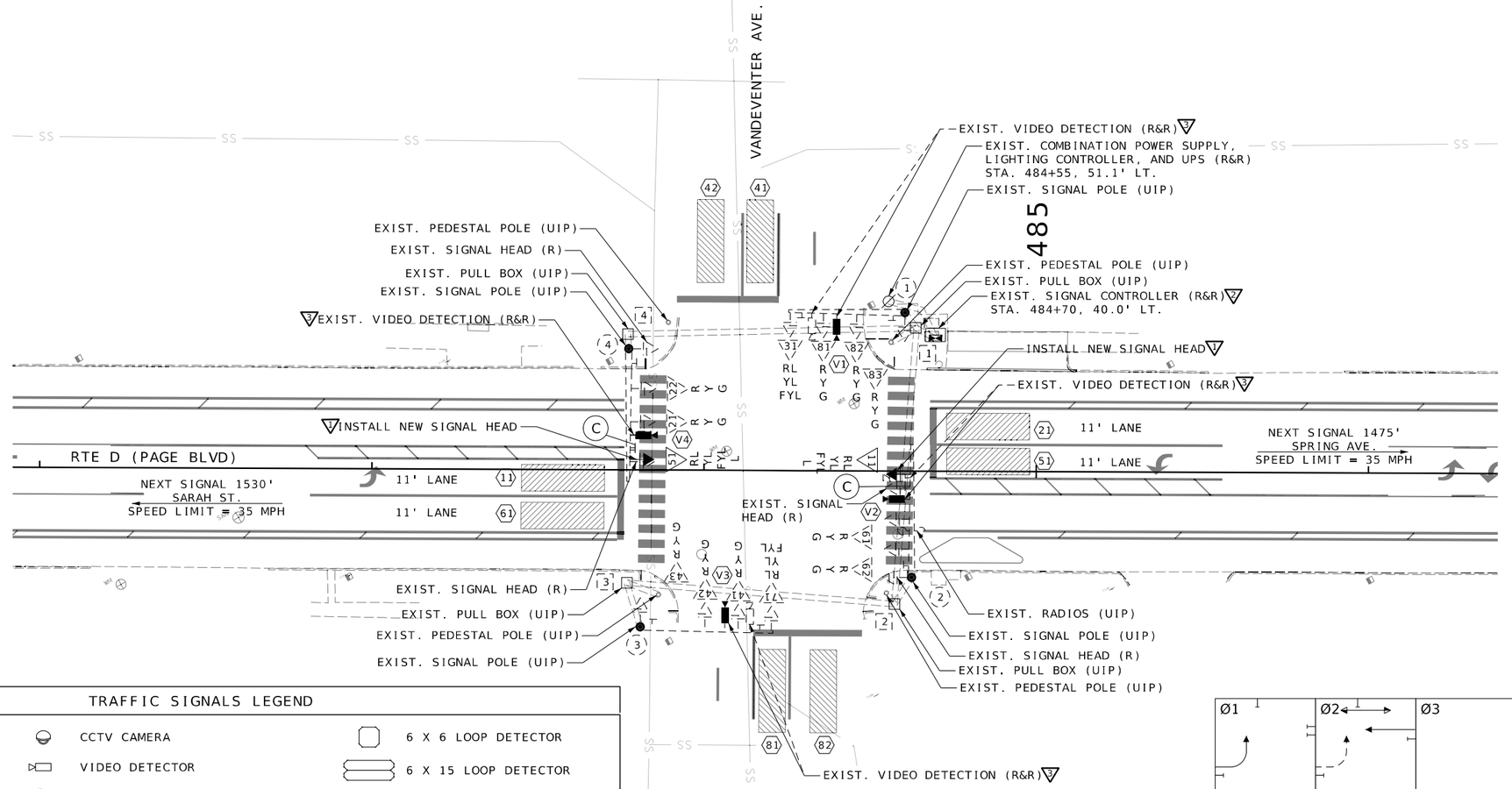


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

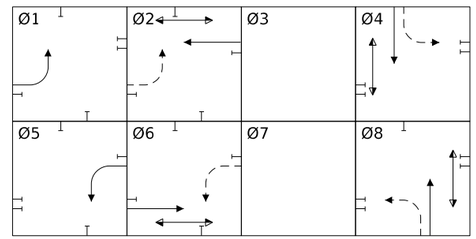
TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNAL MODIFICATION NOTES:
V REPLACE RL-YL-L SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

V REMOVE EXIST. CONTROLLER AND INSTALL NEW CONTROLLER INTO EXIST. SIGNAL CABINET.

V REMOVE EXIST. VIDEO DETECTION AND INSTALL NEW VIDEO DETECTION AT SPECIFIED LOCATION ON SIGNAL MAST ARM.



SHEET 54 OF 99

SIGNAL PLAN SHEET

ROUTE D
VANDEVENTER AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	162

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

c:\bms\gba-pw-01\regan hutchinson\dms23382\162_SG_54_J6S3438_I20.dgn 5:23:59 PM 1/30/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | POST | | | | | | | | | | | | | |

EFFECTIVE: 07/01/2018

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
$\varnothing_{UPS}$	☒	20'		108'												3-1C#8 CABLES
☒	2	99'					173'									SIGNAL HEAD 11
☒	4	98'					174'									SIGNAL HEAD 51
☒	1	6'										(70')				VIDEO V-1
☒	2	99'										(166')				VIDEO V-2
☒	3	184'										(259')				VIDEO V-3
☒	4	98'										(167')				VIDEO V-4
SUBTOTALS				108'			347'					(662')				
5% FOR SNAKING				114'			365'					(695')				
TOTALS				120'			370'					(700')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE D & VANDEVENTER AVE

SHEET 56 OF 99

SIGNAL SHEET

ROUTE D
VANDEVENTER AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	164

COUNTY ST. LOUIS

JOB NO. J6S3438

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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PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	484+55	51.1' LT.	Type	1	15 Amps	15 Amps	100 Amps	100 Amps		Amps	CI. Ft.	EXISTING
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE D	484+70	40.0' LT.			1									EX			EX					

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)							
2								

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

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15.0	2
			SUBTOTAL	15.0	2
			TOTAL	15	2

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE: PUSH BUTTON	INDUCTION LOOP (2): STANDARD	INDUCTION LOOP (2): DELAY/ EXTEND *	INDUCTION LOOP (2): CALL UNIT *	VIDEO
21, 22, 23, 51	WB ROUTE D					V4
11, 61, 62	EB ROUTE D					V2
81, 82, 83	NB VANDEVENTER AVE					V1
41, 42, 43	SB VANDEVENTER AVE					V3
TOTAL						

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EBL	Ø2 WB	NOT USED	Ø4 SB	Ø5 WBL	Ø6 EB	NOT USED	Ø8 NB	OLA FYA EBL	OLB FYA NBL	OLC FYA WBL	OLD FYA SBL	PED Ø2	PED Ø4	PED Ø6	PED Ø8

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY 7 LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

ROUTE D & VANDEVENTER AVE
INTERSECTION

SHEET 57 OF 99

SIGNAL SHEET

ROUTE D
VANDEVENTER AVENUE
SIGNAL QUANTITIES

D-37C

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	165

COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION | DATE

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 12-01-2017

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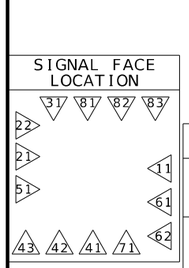
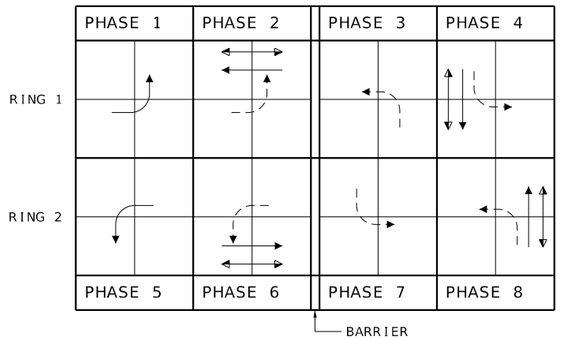


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22	31	41 43 42	51	61 62	71	81 83 82	23 24	44 45	63 64	84 85	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	RL	R R	RL	R	RL	R R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y	YL	Y Y	YL	Y	YL	Y Y					YL	YL	Y
SIGNAL INDICATIONS FYL			FYL				FYL						FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G G	L	G		G G							G
DETECTOR ASSIGNMENTS	11	21 22		41 43 42	51	61 62		81 83 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
VANDEVENTER AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & VANDEVENTER AVE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	166

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 58 OF 99

SIGNAL SHEET

ROUTE D
VANDEVENTER AVENUE
SIGNAL QUANTITIES

D-38A

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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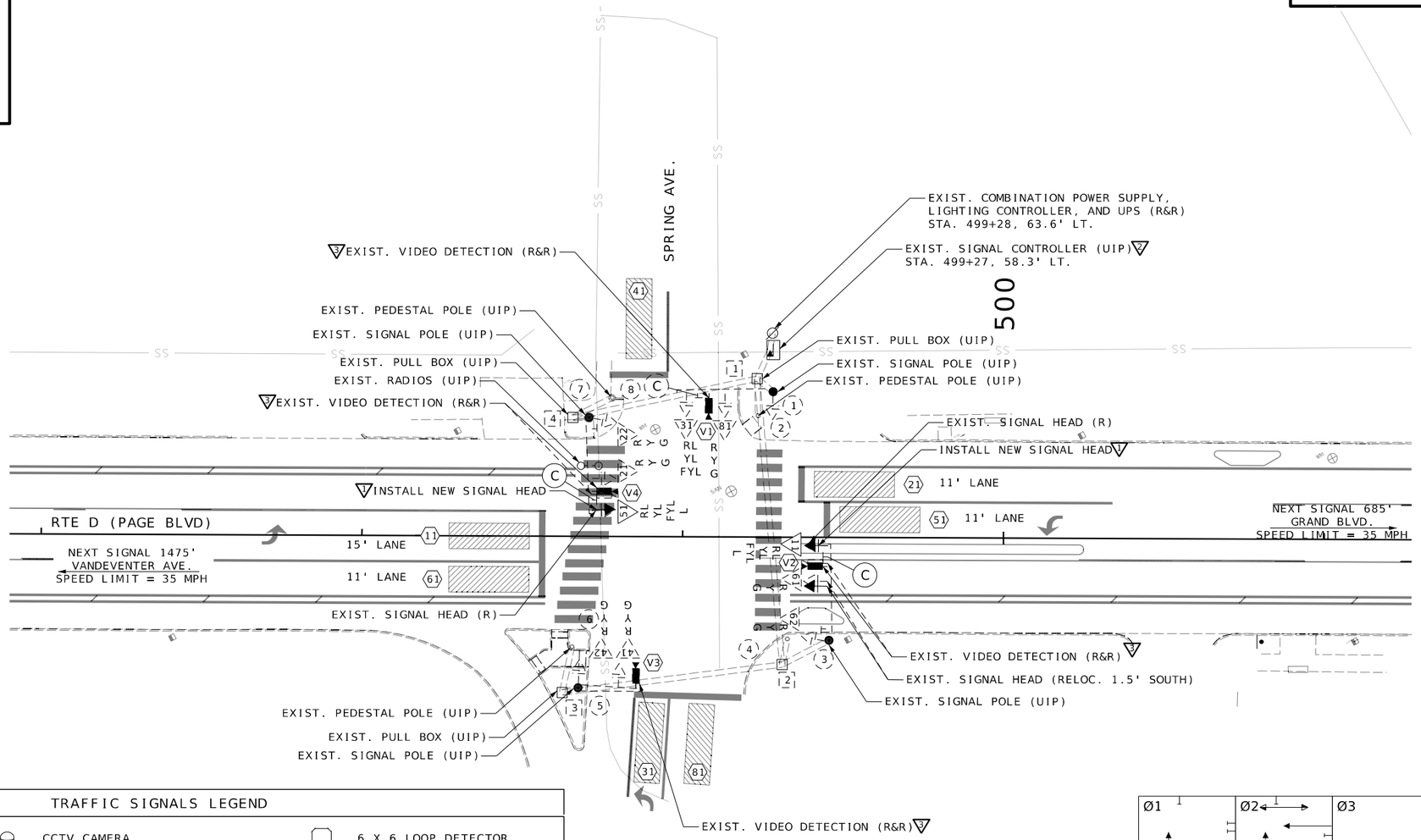
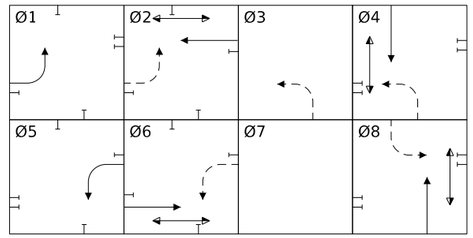


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



SIGNAL MODIFICATION NOTES:
▽3 REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

▽2 REMOVE EXIST. CONTROLLER AND INSTALL NEW CONTROLLER INTO EXIST. SIGNAL CABINET.

▽3 REMOVE EXIST. VIDEO DETECTION AND INSTALL NEW VIDEO DETECTION AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

SHEET 59 OF 99

SIGNAL PLAN SHEET

ROUTE D
SPRING AVENUE

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

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

DESCRIPTION | DATE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	167

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | POST | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
∅ UPS	☒	6'		66'												3-1C#8 CABLES
☒	3	116'					188'									SIGNAL HEAD 11
☒	7	74'					145'									SIGNAL HEAD 51
☒	1	17'										(73')				VIDEO V-1
☒	3	116'										(182')				VIDEO V-2
☒	5	174'										(240')				VIDEO V-3
☒	7	74'										(139')				VIDEO V-4
SUBTOTALS				66'			333'					(634')				
5% FOR SNAKING				69'			350'					(666')				
TOTALS				70'			360'					(670')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE D & SPRING AVE

SHEET 61 OF 99

SIGNAL SHEET

ROUTE D
SPRING AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	169

COUNTY ST. LOUIS

JOB NO. J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	499+28	63.6' LT.	Type	1	15 Amps	15 Amps	100 Amps	100 Amps		Amps	CI. Ft.	EXISTING
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE D	499+27	58.3' LT.			1									EX			EX					

NEMA DETECTOR ASSIGNMENT

	CARD POSITION							
	1	2	3	4	5	6	7	8
CHANNEL 1	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)							
CHANNEL 2								

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

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)

TOTAL = 1 EACH

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15.0	2
			SUBTOTAL	15.0	2
			TOTAL	15.0	2

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
21, 22, 51	WB ROUTE D					V4
11, 61, 62	EB ROUTE D					V2
31, 81	NB SPRING AVE					V1
41, 42	SB SPRING AVE					V3
TOTAL						

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA FYA EBL	Ø2 WB	NOT USED	Ø4 SB	OLC FYA WBL	Ø6 EB	NOT USED	Ø8 SB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED
								Ø1 EBL	NOT USED	Ø5 WBL	NOT USED

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY 7 LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

ROUTE D & SPRING AVE
INTERSECTION

SHEET 62 OF 99

SIGNAL SHEET

ROUTE D
SPRING AVENUE
SIGNAL QUANTITIES

D-37C

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	170

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 12-01-2017

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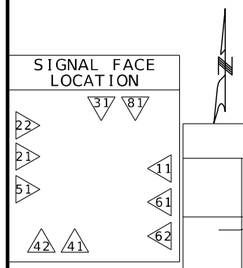
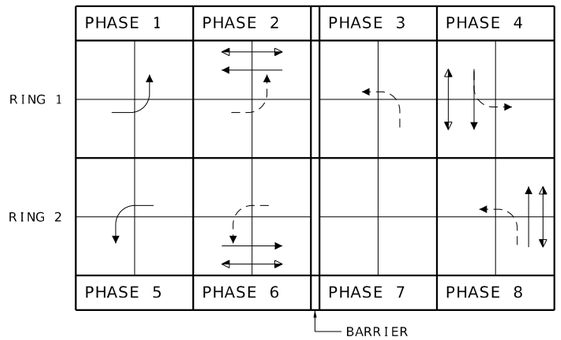


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 / OVERLAP	PED Ø 4 / OVERLAP	PED Ø 6 / OVERLAP	PED Ø 8 / OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22	31	41 42	51	61 62		81	23 24	43 44	63 64	83 84	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	RL	R	RL	R		R					RL	RL	R
SIGNAL INDICATIONS Y	YL	Y	YL	Y	YL	Y		Y					YL	YL	Y
SIGNAL INDICATIONS FYL			FYL										FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G		G	L	G		G							G
DETECTOR ASSIGNMENTS	11	21 22	31	41 42	51	61 62		81							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	83 84			
OVERLAP PARENT PHASES													2	6	



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LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
SPRING AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & SPRING AVE

SHEET 63 OF 99

SIGNAL SHEET

ROUTE D
SPRING AVENUE
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	171

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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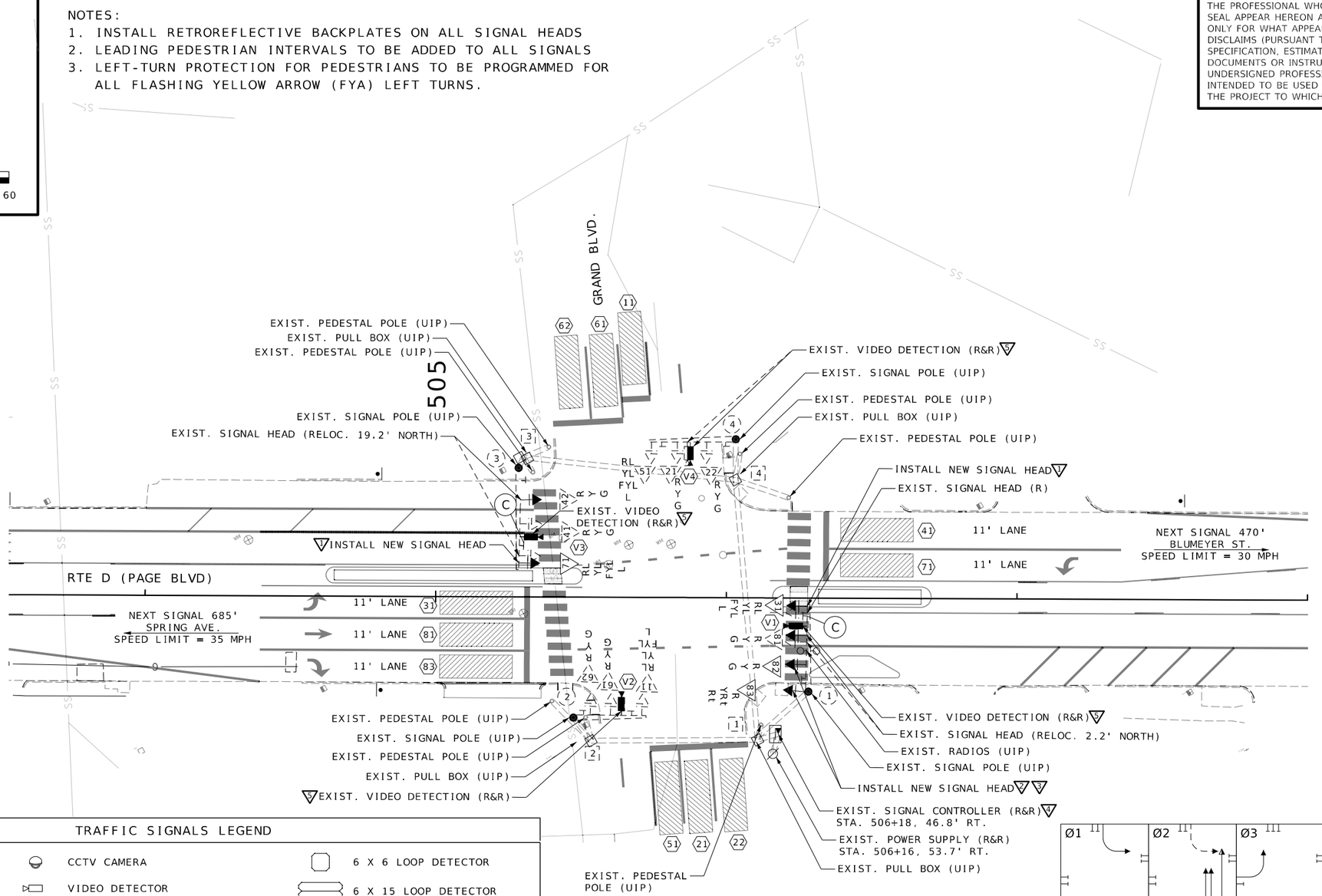
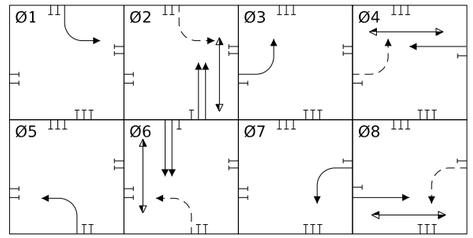


LEFT TURN YIELD ON FLASHING ARROW
R10-27a
C

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNAL MODIFICATION NOTES:
1. REPLACE R-Y-G SIGNAL HEAD WITH RL-YL-FYL-L SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.
2. INSTALL NEW R-Y-G SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.
3. INSTALL NEW SIDE-MOUNTED R-YRt-Rt SIGNAL HEAD ON SIGNAL POLE.
4. REMOVE EXIST. CONTROLLER AND INSTALL NEW CONTROLLER INTO EXIST. SIGNAL CABINET.
5. REMOVE EXIST. VIDEO DETECTION AND INSTALL NEW VIDEO DETECTION AT SPECIFIED LOCATION ON SIGNAL MAST ARM.



SHEET 64 OF 99

SIGNAL PLAN SHEET

ROUTE D
GRAND BOULEVARD

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	172

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | POST | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
⌀UPS	☒	7'		69'												3-1C#8 CABLES
☒	(1)	32'					98'									SIGNAL HEAD 31
☒	(1)	32'					78'									SIGNAL HEAD 82
☒	(1)	32'					59'									SIGNAL HEAD 83
☒	(3)	175'					254'									SIGNAL HEAD 71
☒	(1)	32'										(91')				VIDEO V-1
☒	(2)	75'										(134')				VIDEO V-2
☒	(3)	175'										(247')				VIDEO V-3
☒	(4)	111'										(169')				VIDEO V-4
SUBTOTALS				69'			489'					(641')				
5% FOR SNAKING				73'			513'					(673')				
TOTALS				80'			520'					(680')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE D & GRAND BLVD

SHEET 66 OF 99

SIGNAL SHEET

ROUTE D
GRAND BOULEVARD
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	174

COUNTY ST. LOUIS

JOB NO. J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ENGINEER
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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	506+16	53.7' RT.	Type	1	15 Amps	15 Amps	100 Amps	100 Amps		Amps	CI. Ft.	EXISTING
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE D	506+18	46.8' RT.			1									EX			EX					

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)							
2								

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

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)

TOTAL = 1 EACH

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15.0	2
			SUBTOTAL	15.0	2
			TOTAL	15	2

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE: PUSH BUTTON	INDUCTION LOOP (2): STANDARD	INDUCTION LOOP (2): DELAY/ EXTEND *	INDUCTION LOOP (2): CALL UNIT *	VIDEO
41, 42, 71	WB ROUTE D					V3
31, 81, 82, 83	EB ROUTE D					V1
21, 22, 51	NB GRAND BLVD					V4
11, 61, 62	SB GRAND BLVD					V2
TOTAL						

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 SBL	Ø2 NB	Ø3 EBL	Ø4 WB	Ø5 NBL	Ø6 SB	Ø7 WBL	Ø8 EB	OLA FYA SBL	OLB FYA EBL	OLC FYA NBL	OLD FYA WBL	PED Ø2	PED Ø4	PED Ø6	PED Ø8

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY 7 LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

ROUTE D & GRAND BLVD
INTERSECTION

SHEET 67 OF 99

SIGNAL SHEET

ROUTE D
GRAND BOULEVARD
SIGNAL QUANTITIES

D-37C

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	175

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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PRO. ENGINEER 000133
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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 12-01-2017

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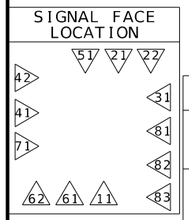
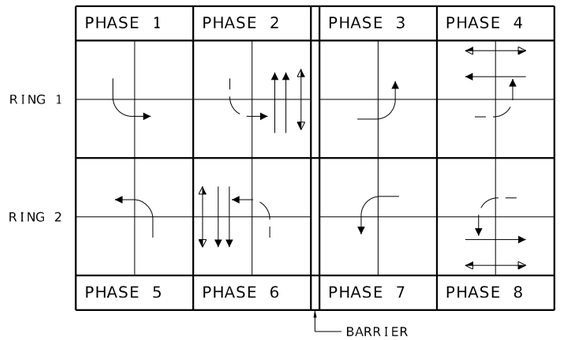


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	
FACE NUMBERS	11	21 22	31	41 42	51	61 62	71	81 83 82	23 24	43 44	63 64	84 85	11	31	51	71	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	RL	R	RL	R	RL	R R					RL	RL	RL	RL	R
SIGNAL INDICATIONS Y	YL	Y	YL	Y	YL	Y	YL	Y Y					YL	YL	YL	YL	Y
SIGNAL INDICATIONS FYL	FYL		FYL		FYL		FYL						FYL	FYL	FYL	FYL	FYL
SIGNAL INDICATIONS G	L	G	L	G	L	G	L	G G									G
DETECTOR ASSIGNMENTS	11	21 22	31	41 42	51	61 62	71	81 83 82									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	84 85					
OVERLAP PARENT PHASES																	



RING STRUCTURE

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

LEGEND

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

FLASHING OPERATION	
ROUTE D	FR
GRAND BLVD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE D & GRAND BLVD

SHEET 68 OF 99

SIGNAL SHEET

ROUTE D
GRAND BOULEVARD
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	176

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

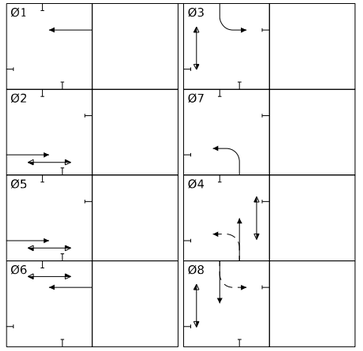
SCALE
0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS

R10-3eL (33) R10-3eR (34)

R3-2 (D)

INSTALLED ABOVE PUSH BUTTONS (INCLUDED IN COST FOR ACCESSIBLE PEDESTRIAN PUSH BUTTON)



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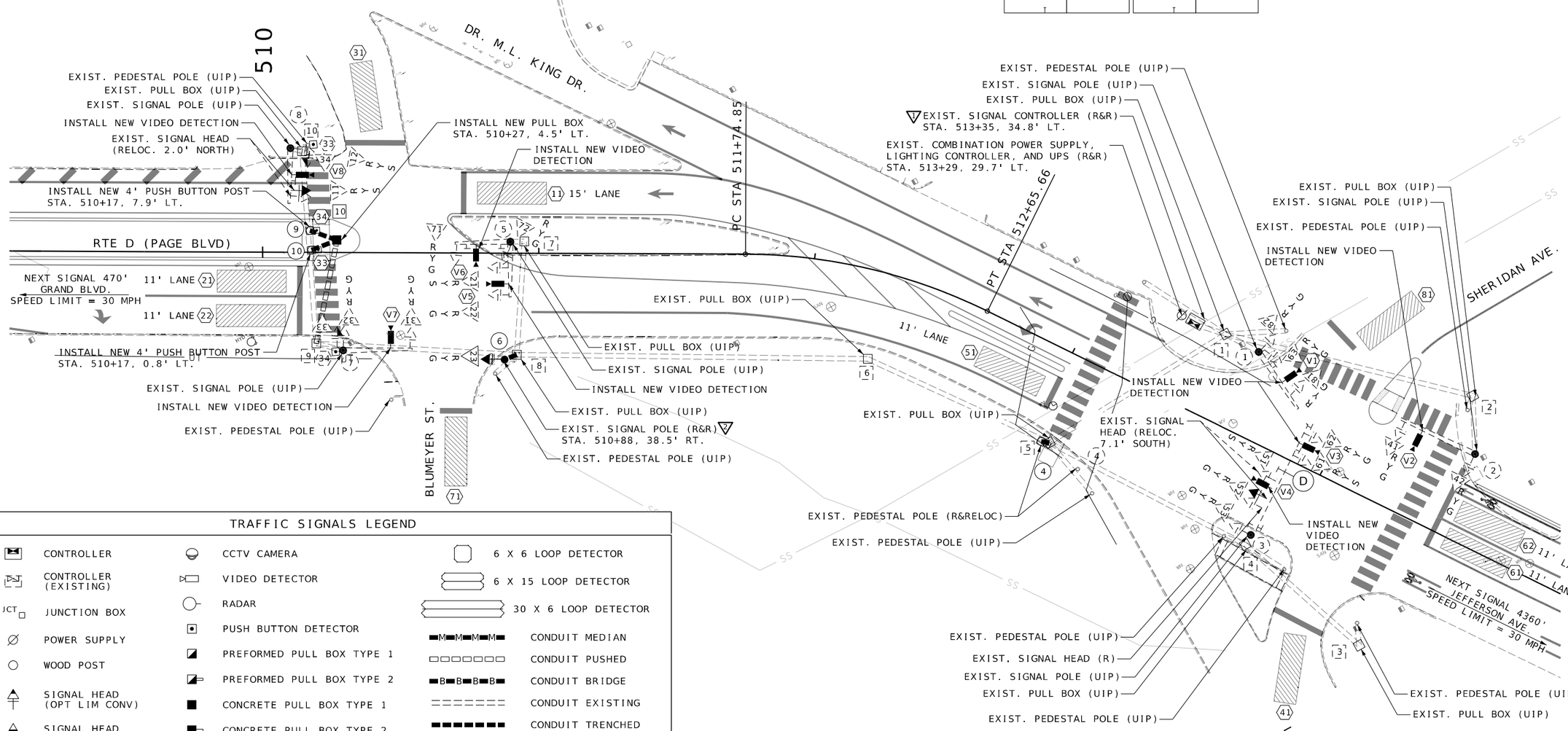

TRAFFIC SIGNALS LEGEND

- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNAL MODIFICATION NOTES:
▽ REMOVE EXIST. CONTROLLER AND INSTALL NEW CONTROLLER INTO EXIST. SIGNAL CABINET.

▽ SIGNAL POLE TYPE C CONCRETE BASE SHALL BE CONSTRUCTED SQUARE FROM THE SURFACE TO A DEPTH OF 12" PER MODOT STANDARD PLAN 902.30P SHEET 1.

SHEET 69 OF 99

SIGNAL PLAN SHEET

ROUTE D
BLUMEYER STREET
SHERIDAN AVENUE/
LEONARD AVENUE

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	177

COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	DESCRIPTION	DATE

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c:\bms\gba-pw-01\regan hutchinson\dms23382\177_SG_69_J6S3438_I20.dgn 5:25:39 PM 1/30/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A 9 | A 9.5 | A 10 | A 10.5 | A 11 | A 12 | F 9 | F 9.5 | F 10 | F 10.5 | F 11 | F 12 | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | II B | II C | POST: TOP MOUNT POST 4 FT. | 15 FT. | TYPE C & CL: ARM LENGTH A | A | A | A | SIGNAL SPACING B | C | D | D' | SIGN SPACING B | C | D | D' | TYPE B & BL: ARM LENGTH E | K | E | K | E | K | LEFT ARM E: SIGNAL SPACING F | G | H | H' | SIGN SPACING F | G | H | H' | RIGHT ARM K: SIGNAL SPACING L | M | N | N' | SIGN SPACING L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

CONDUIT (WITH #14 TRACER WIRE)

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
5	4	3'			4'												
8	6	19'		20'													
9	10	38'							36'								
10	9	11'			12'												
10	10	10'			11'												
SUBTOTALS				20'	27'				36'								
TOTALS				20'	27'				36'								

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
∅UPS	1	5'		63'												3-1c#8 CABLES
	1	26'										(77')				VIDEO V-1
	2	125'										(189')				VIDEO V-2
	3	171'										(257')				VIDEO V-3
	3	171'										(238')				VIDEO V-4
	5	333'										(406')				VIDEO V-5
	5	333'										(409')				VIDEO V-6
	6	291'					50'									SIGNAL HEAD 23
	7	352'										(431')				VIDEO V-7
	8	425'										(502')				VIDEO V-8
	9	396'			477'											PUSH BUTTON 34
	10	407'			488'											PUSH BUTTON 33
SUBTOTALS				63'	965'		50'					(2509')				
5% FOR SNAKING				67'	1014'		53'					(2635')				
TOTALS				70'	1020'		60'					(2640')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE D & BLUMEYER ST/SHERIDAN AVE

SIGNAL SHEET

ROUTE D
BLUMEYER STREET/
SHERIDAN AVENUE/LEONARD AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 179
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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PE-2018024421

REV.

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

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	513+29	29.7' LT.	Type	1	15 Amps	15 Amps	100 Amps	100 Amps		Amps	Cl. Ft.	EXISTING
			Type		Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE D	513+35	34.8' LT.			1									EX			EX					

NEMA DETECTOR ASSIGNMENT

	CARD POSITION							
	1	2	3	4	5	6	7	8
CHANNEL 1	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)							
CHANNEL 2								

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

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)

TOTAL = 1 EACH

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11, 12	WB ROUTE D					V8
21, 22, 23	EB ROUTE D					V5
31, 32	SB BLUMEYER ST					V7
71, 72	NB BLUMEYER ST					V6
51, 52, 53	EB ROUTE D					V4
61, 62, 63	WB ROUTE D					V3
41, 42	NB SHERIDAN AVE					V2
81, 82	SB SHERIDAN AVE					V1
33	ROUTE D	1				
34	ROUTE D	1				
	TOTAL	2				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY 7 LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
1	R3-2	24 X 24	4.0	4.0	1
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
1	R10-3EL	9 X 15	0.9	0.9**	1**
1	R10-3ER	9 X 15	0.9	0.9**	1**
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL	4.0	1
			TOTAL	4	1

**NOTE: NO DIRECT PAY FOR REQUIRED R10-3E SIGNS AND MOUNTING HARDWARE TO BE INCLUDED AS INCIDENTAL TO COST OF THE PUSH BUTTON.

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 WB	Ø2 EB	Ø3 SB	Ø4 NB	Ø5 EB	Ø6 WB	Ø7 NB	Ø8 SB	NOT USED	NOT USED	NOT USED	PED Ø2	PED Ø3	PED Ø5	PED Ø6	PED Ø8

ROUTE D & BLUMEYER ST
ROUTE D & SHERIDAN AVE/LEONARD AVE

INTERSECTION

SHEET 72 OF 99

SIGNAL SHEET

ROUTE D
BLUMEYER STREET
SHERIDAN AVENUE/LEONARD AVENUE
SIGNAL QUANTITIES

D-37C

DISCLAIMER
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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	180

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

c:\bms\gba-pw-01\regan hutchinson\dms23382\180_SG_72_J6S3438.dgn 4:04:03 PM 1/30/2026

SCALE
0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

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555

560

JEFFERSON AVE.

EXIST. PEDESTAL POLE (UIP)
EXIST. PEDESTAL POLE (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGNAL POLE (UIP)
INSTALL NEW VIDEO DETECTION

INSTALL NEW VIDEO DETECTION
EXIST. PULL BOX (UIP)
EXIST. SIGNAL POLE (UIP)
EXIST. PEDESTAL POLE (UIP)
EXIST. PEDESTAL POLE (UIP)

RTE D (DR. M.L. KING DR)

NEXT SIGNAL 4360'
LEONARD AVE./SHERIDAN AVE.
SPEED LIMIT = 30 MPH

11' LANE
11' LANE

10' LANE
5' LANE
11' LANE
11' LANE

NEXT SIGNAL 4370'
14TH ST.
SPEED LIMIT = 30 MPH

EXIST. PEDESTAL POLE (UIP)
EXIST. PULL BOX (UIP)
EXIST. PEDESTAL POLE (UIP)
EXIST. SIGNAL POLE (UIP)
EXIST. SIGNAL CONTROLLER (R&R) STA. 557+05, 54.1' RT.
EXIST. COMBINATION POWER SUPPLY, LIGHTING CONTROLLER, AND UPS (R&R) STA. 557+05, 60.5' RT.

EXIST. SIGNAL HEAD (RELOC. 3.0' SOUTH)
INSTALL NEW VIDEO DETECTION
EXIST. SIGNAL HEAD (RELOC. 2.2' SOUTH)
EXIST. SIGNAL POLE (UIP)
EXIST. PULL BOX (UIP)

INSTALL NEW VIDEO DETECTION

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNAL MODIFICATION NOTES:
V REMOVE EXIST. CONTROLLER AND INSTALL NEW CONTROLLER INTO EXIST. SIGNAL CABINET.

Ø1 Ø2 Ø3 Ø4
Ø5 Ø6 Ø7 Ø8

SHEET 73 OF 99

SIGNAL PLAN SHEET

ROUTE D
JEFFERSON AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	181

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

c:\bms\gba-pw-01\regan hutchinson\dms23382\181_SG_73_J6S3438_I20.dgn 5:26:27 PM 1/30/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | DRAIN TYPE* | | TOP MOUNT POST | | POST | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
∅ UPS	☒	7'		69'												3-1C#8 CABLES
☒	1	57'										(126')				VIDEO V-1
☒	2	101'										(162')				VIDEO V-2
☒	3	215'										(293')				VIDEO V-3
☒	4	162'										(223')				VIDEO V-4
SUBTOTALS				69'								(804')				
5% FOR SNAKING				73'								(844')				
TOTALS				80'								(850')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE D & JEFFERSON AVE

SHEET 75 OF 99

SIGNAL SHEET

ROUTE D
JEFFERSON AVENUE
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	183

COUNTY ST. LOUIS

JOB NO. J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	557+05	60.5' RT.	Type	1	15 Amps	15 Amps	100 Amps	100 Amps		Amps	CI. Ft.	EXISTING
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE D	557+05	54.1' RT.			1									EX			EX					

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)							
2								

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

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

SIGNAL SIGNS

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE: PUSH BUTTON	INDUCTION LOOP (2): STANDARD	INDUCTION LOOP (2): DELAY/ EXTEND *	INDUCTION LOOP (2): CALL UNIT *	VIDEO
41, 42, 43	EB ROUTE D					V4
31, 81, 82	WB ROUTE D					V2
21, 22, 23, 24, 51	NB JEFFERSON AVE					V3
11, 61, 62, 63, 64	SB JEFFERSON AVE					V1
TOTAL						

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
Ø1 SBL	Ø2 NB	OLA FYA WBL	Ø4 EB	Ø5 NBL	Ø6 SB	OLB WB RT	Ø8 WB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY 7 LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

ROUTE D & JEFFERSON AVE
INTERSECTION

SHEET 76 OF 99

SIGNAL SHEET

ROUTE D
JEFFERSON AVENUE
SIGNAL QUANTITIES

D-37C

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	184

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS
3. LEFT-TURN PROTECTION FOR PEDESTRIANS TO BE PROGRAMMED FOR ALL FLASHING YELLOW ARROW (FYA) LEFT TURNS.

DISCLAIMER
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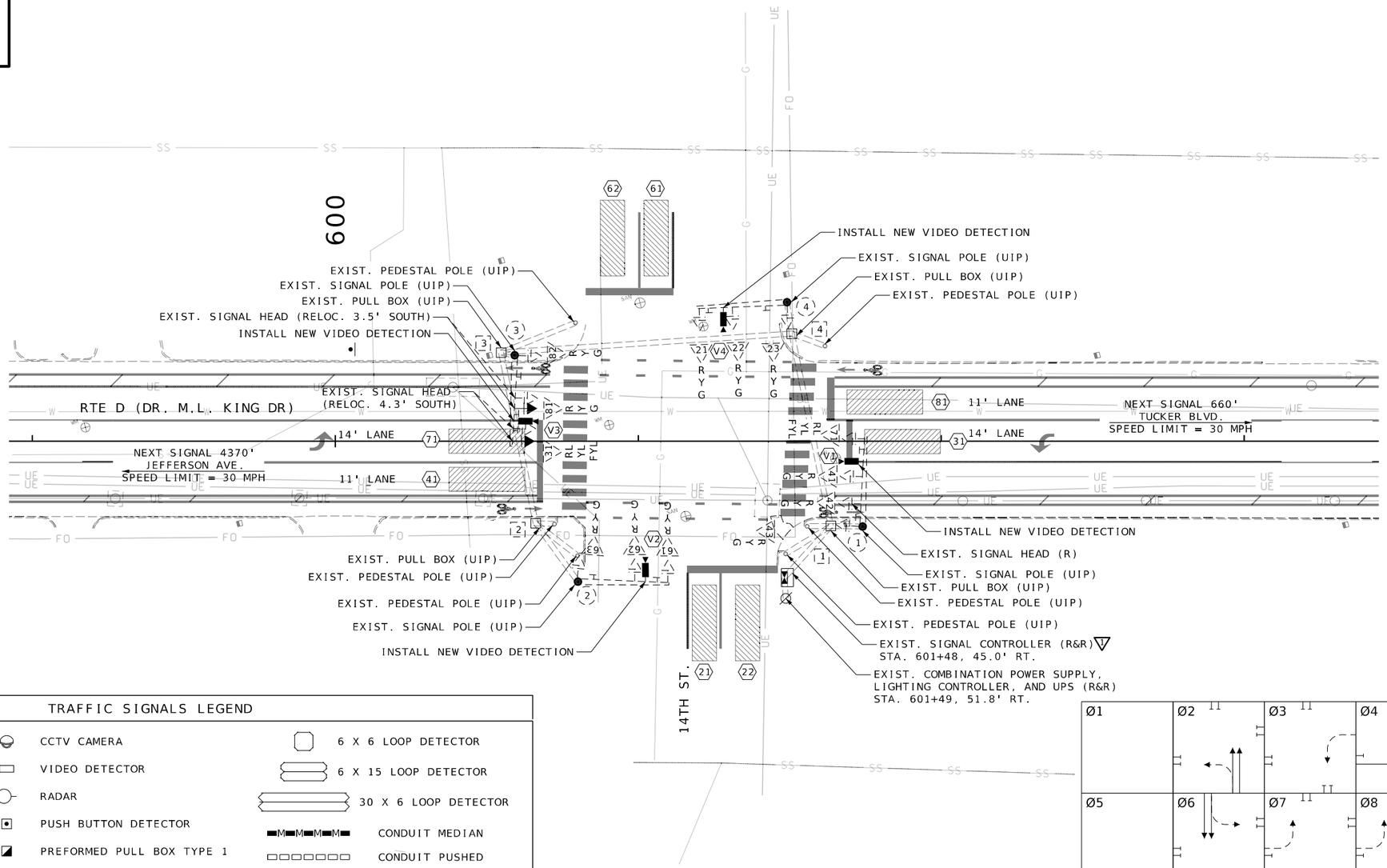

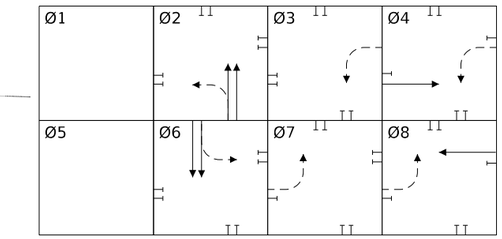

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNAL MODIFICATION NOTES:
▽ REMOVE EXIST. CONTROLLER AND INSTALL NEW CONTROLLER INTO EXIST. SIGNAL CABINET.

SHEET 77 OF 99

SIGNAL PLAN SHEET

ROUTE D
14TH STREET

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	185

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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
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JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | PULL BOX | | | | | | | | | | POST | | | | | | | | | | | | | |

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

EFFECTIVE: 07/01/2018

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
∅ UPS	☒	7'		69'												3-1C#8 CABLES
☒	1	33'										(92')				VIDEO V-1
☒	2	264'										(342')				VIDEO V-2
☒	3	188'										(259')				VIDEO V-3
☒	4	99'										(164')				VIDEO V-4
SUBTOTALS				69'								(857')				
5% FOR SNAKING				73'								(900')				
TOTALS				80'								(910')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE D & 14TH ST

SHEET 79 OF 99

SIGNAL SHEET

ROUTE D
14TH STREET
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE D | STATE MO

DISTRICT SL | SHEET NO. 187

COUNTY ST. LOUIS

JOB NO. J6S3438

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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16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

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

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	601+49	51.8' RT.	Type	1	15 Amps	15 Amps	100 Amps	100 Amps		Amps	CI. Ft.	EXISTING
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE D	601+48	45.0' RT.			1									EX			EX					

NEMA DETECTOR ASSIGNMENT

CARD POSITION

CHANNEL	1	2	3	4	5	6	7	8
1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
2								

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

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)

TOTAL = 1 EACH

SIGNAL SIGNS

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
41, 42, 43, 71	EB ROUTE D					V1
31, 81, 82	WB ROUTE D					V3
21, 22, 23	NB 14TH ST					V4
61, 62, 63	SB 14TH ST					V2
TOTAL						

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
NOT USED	Ø2 NB	OLA FYA WBL	Ø4 EB	NOT USED	Ø6 SB	OLB FYA EBL	Ø8 WB	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY 7 LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

ROUTE D & 14TH ST
INTERSECTION

SHEET 80 OF 99

SIGNAL SHEET

ROUTE D
14TH STREET
SIGNAL QUANTITIES

D-37C

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	188

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

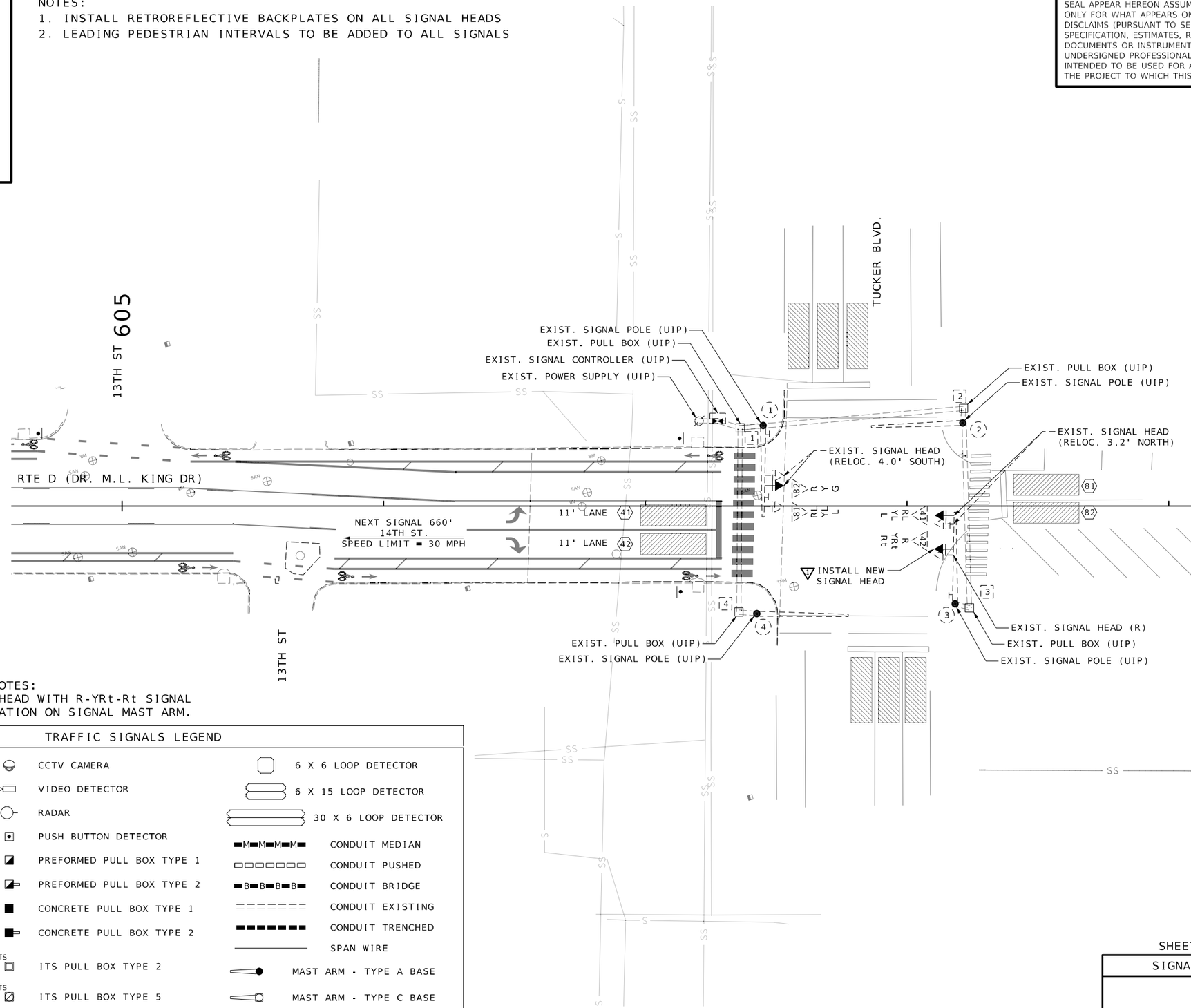
CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

SCALE

0 20 40 60

NOTES:
1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL SIGNAL HEADS
2. LEADING PEDESTRIAN INTERVALS TO BE ADDED TO ALL SIGNALS



SIGNAL MODIFICATION NOTES:
▽1 REPLACE R-Y-G SIGNAL HEAD WITH R-YRt-Rt SIGNAL HEAD AT SPECIFIED LOCATION ON SIGNAL MAST ARM.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- 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
- RADAR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- 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
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2010024421
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	189

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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SHEET 81 OF 99

SIGNAL PLAN SHEET

ROUTE D
TUCKER BOULEVARD

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | | | | | | |

SCALE

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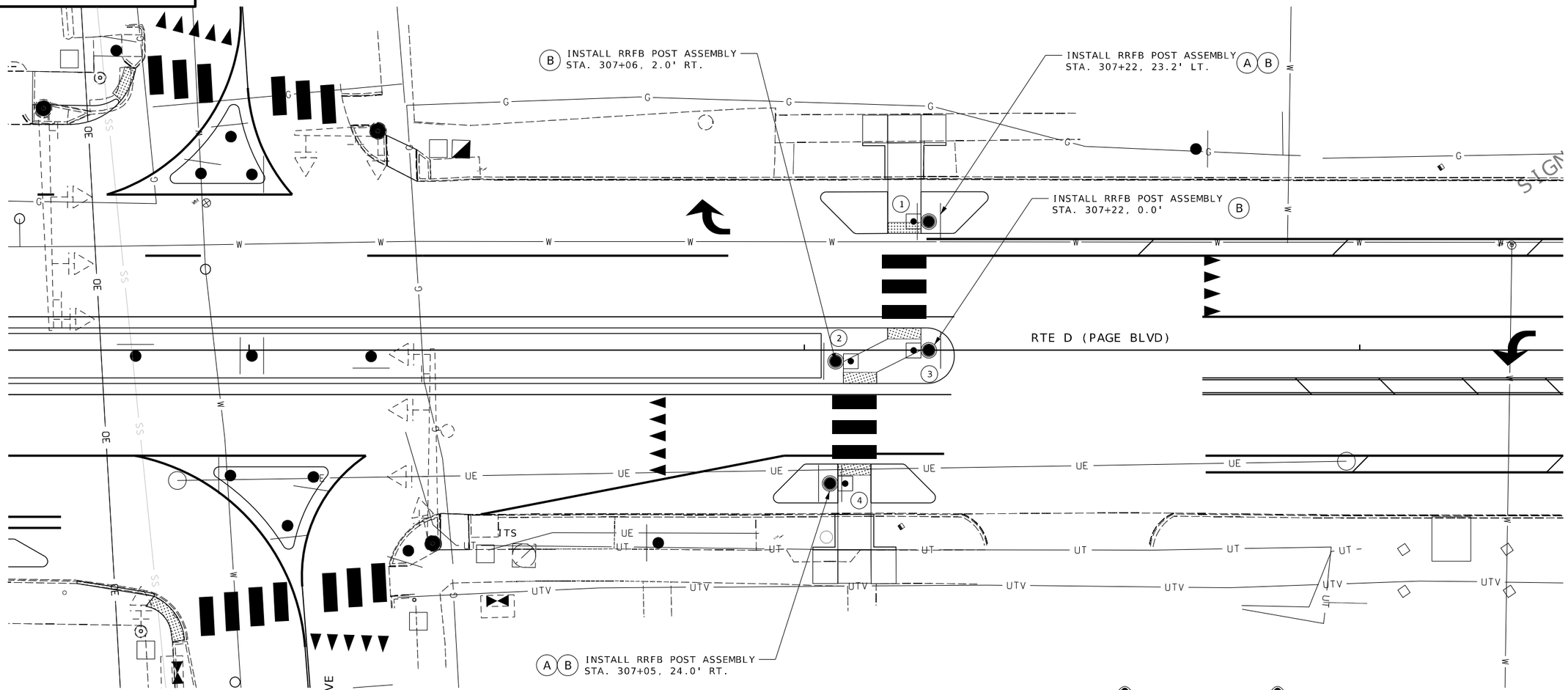

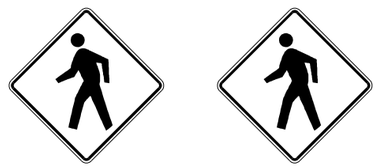

SHEET 83 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT HODIAMONT AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	191

COUNTY: ST. LOUIS

JOB NO. J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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ARCHITECT 000212
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PROFESSIONAL
ENGINEER
PE-2018024421

REV.

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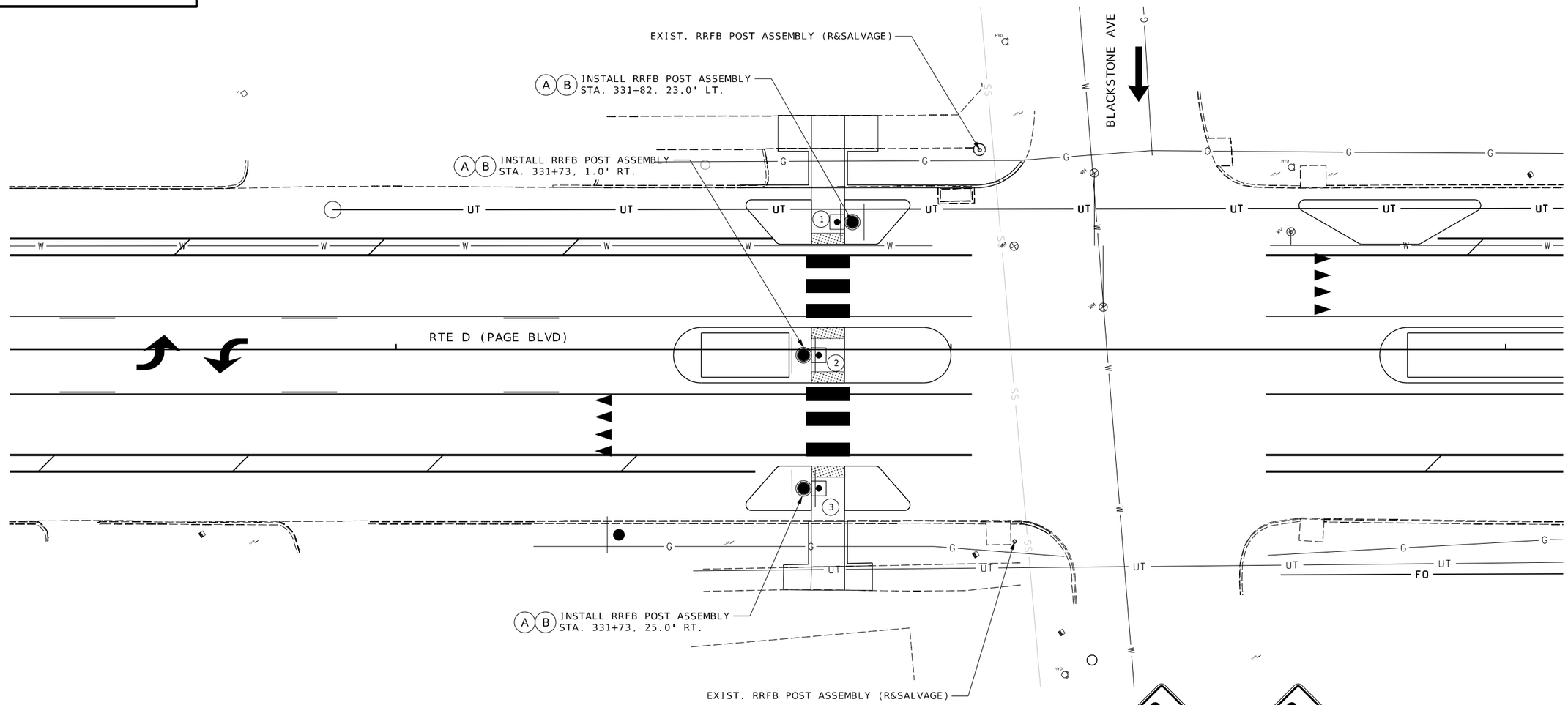

SHEET 84 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT BLACKSTONE AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	192

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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PE-2018024421

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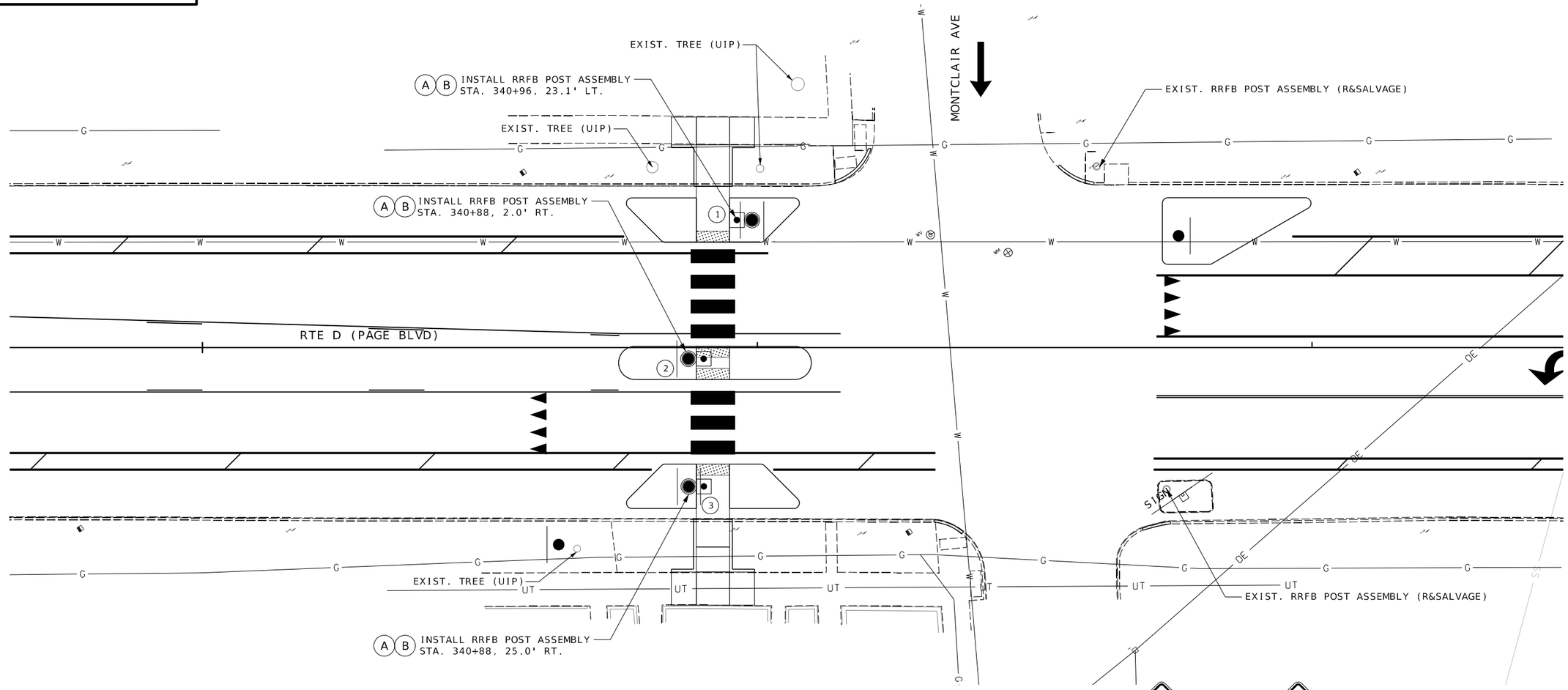

SHEET 85 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT MONTCLAIR AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	193

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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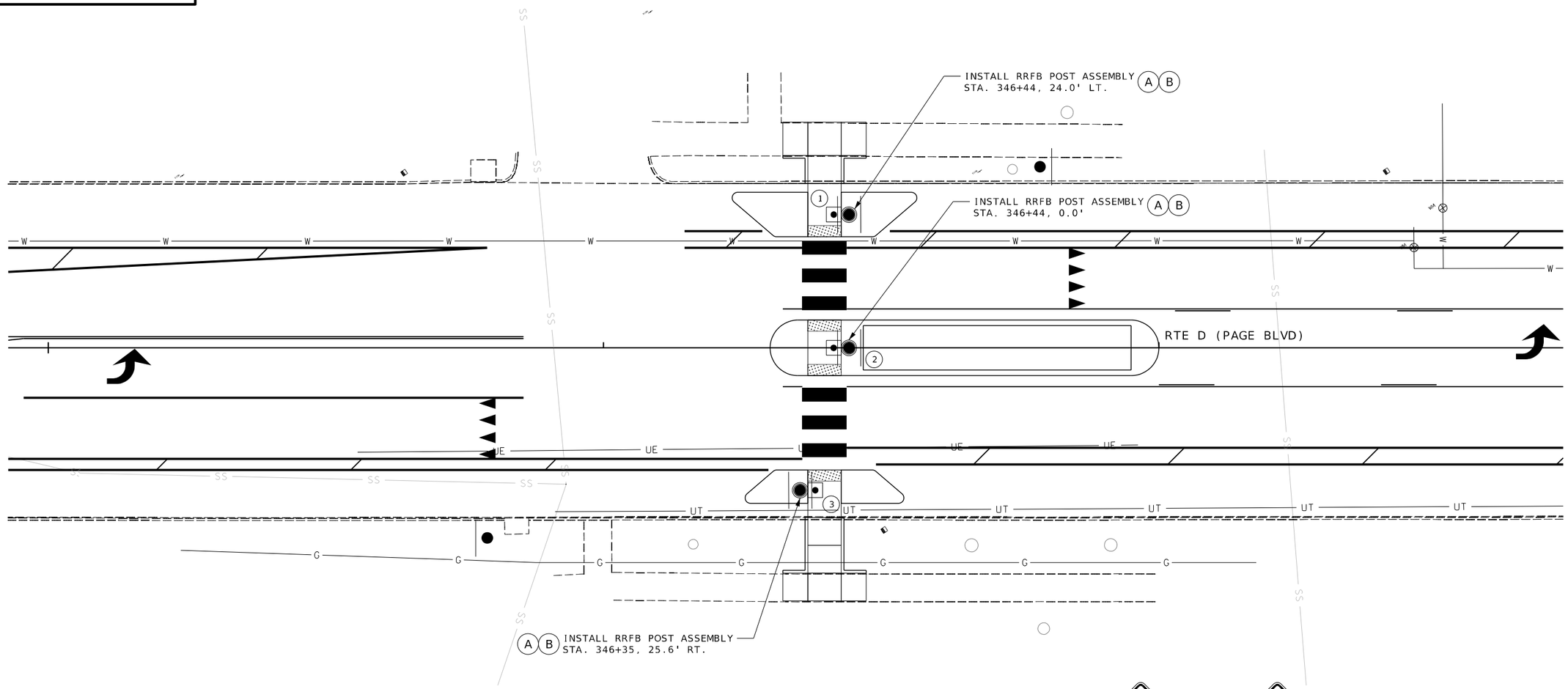

W11-2
W16-7P
A

W11-2
W16-7P
B

SHEET 86 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING WEST
OF BELT AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	194

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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BRIDGE NO.

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CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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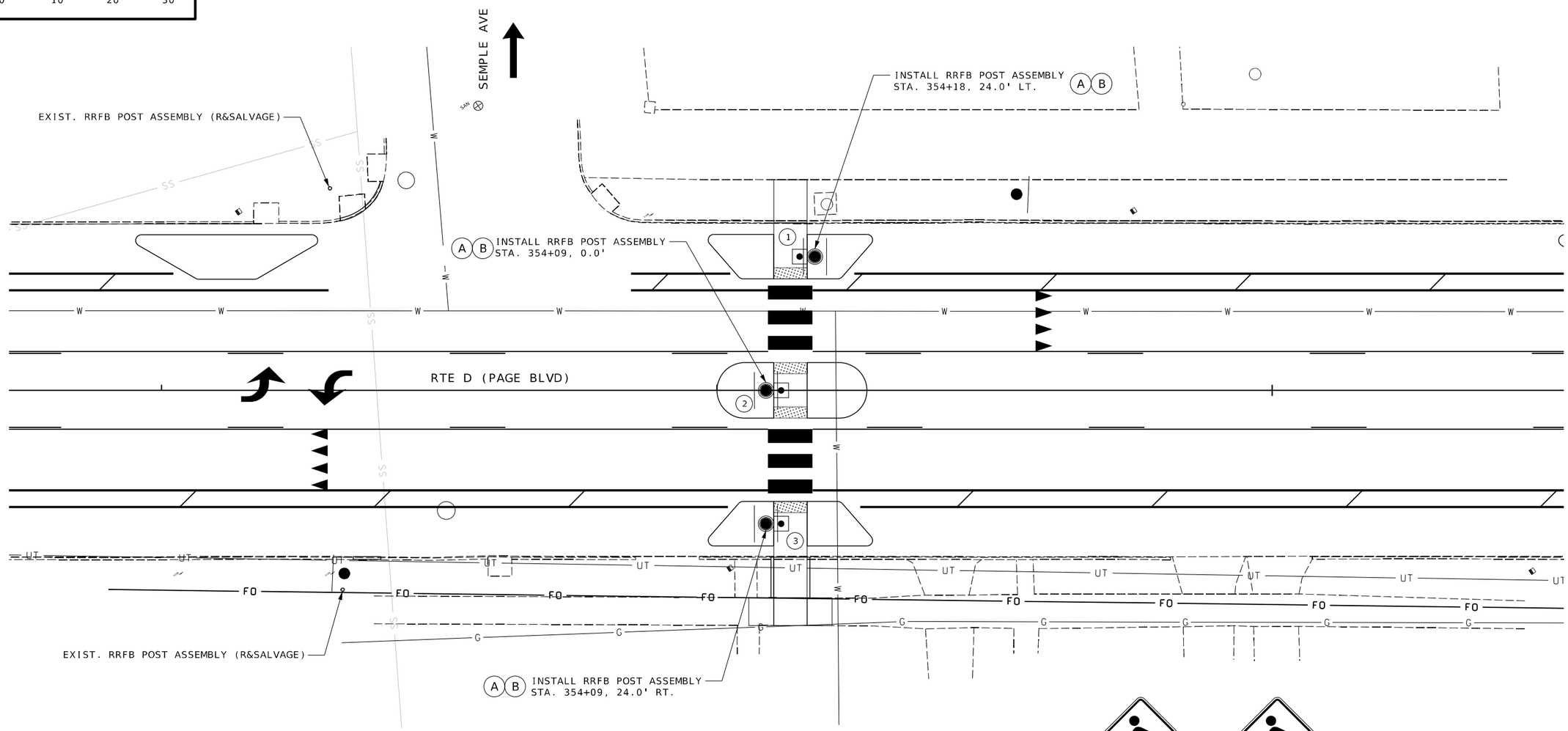

SHEET 87 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT SEMPLE AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	195

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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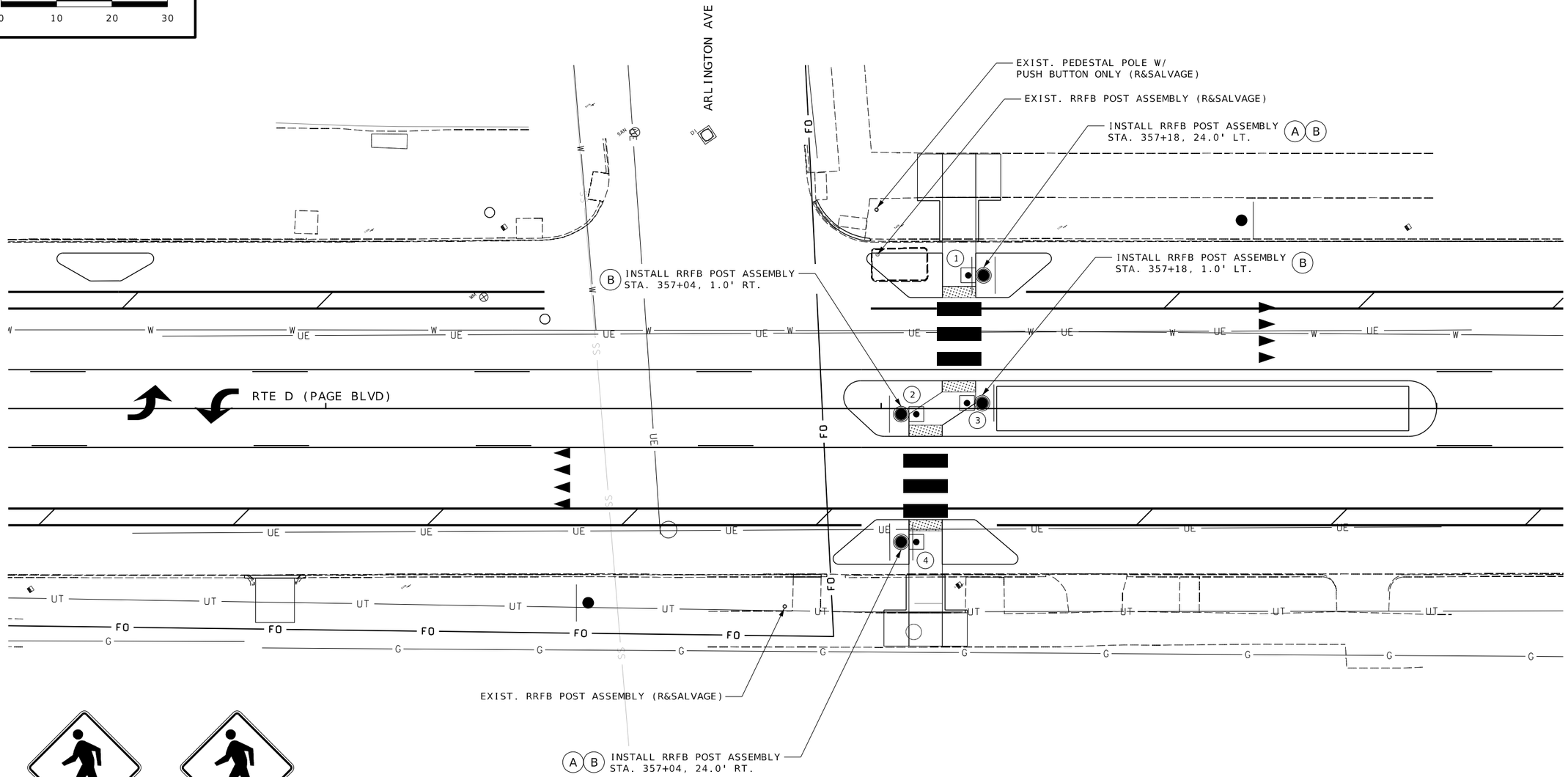

SHEET 88 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT ARLINGTON AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	196

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

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SCALE

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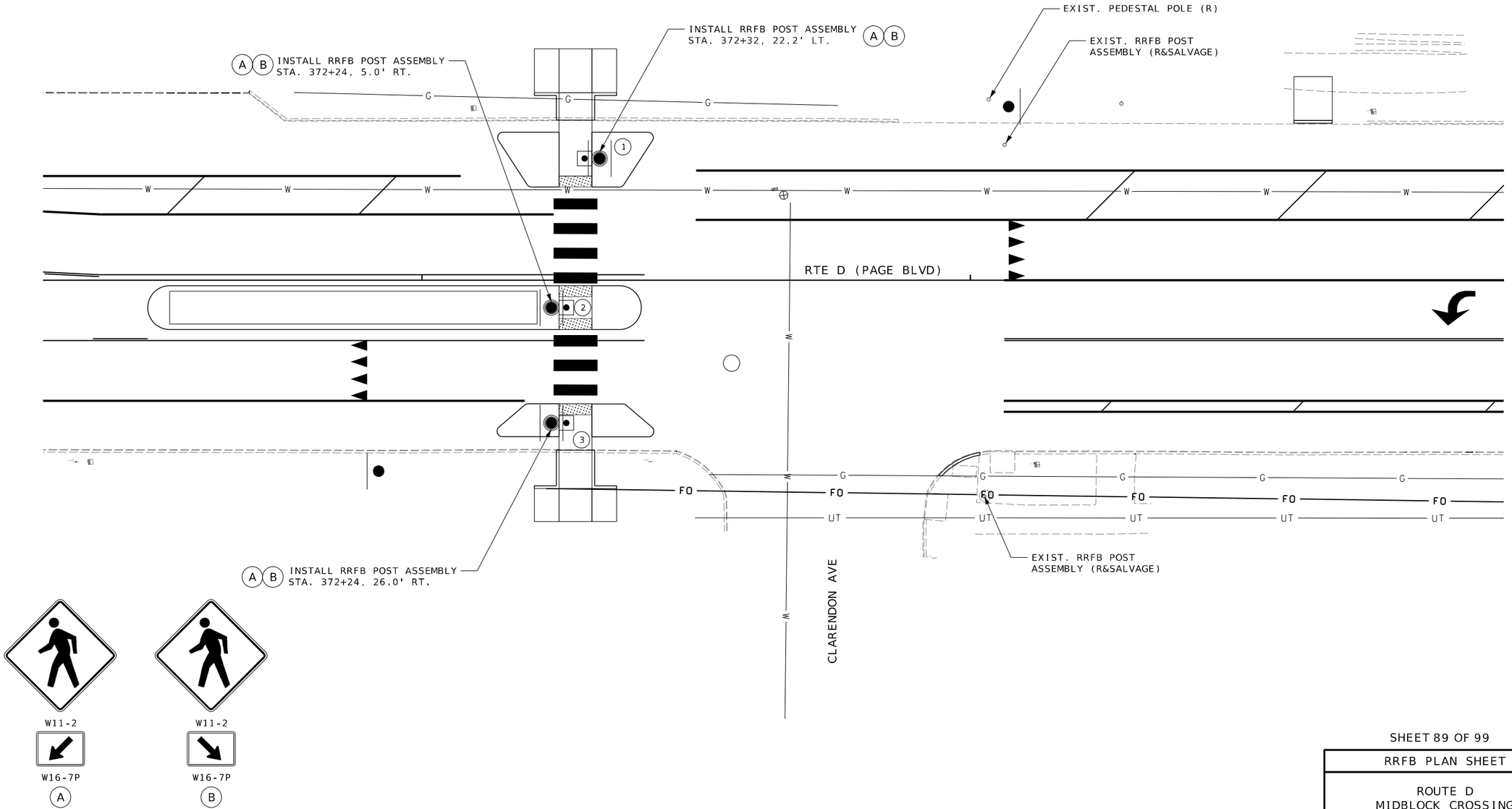

SHEET 89 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT CLARENDON AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	197

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

GBA
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

SCALE

0 10 20 30

MARCUS AVE

EXIST. RRFB POST ASSEMBLY
(R&SALVAGE)

INSTALL RRFB POST ASSEMBLY (A) (B)
STA. 415+58, 21.4' LT.

INSTALL RRFB POST ASSEMBLY (A) (B)
STA. 415+58, 3.5' RT.

RTE D (PAGE BLVD)

EXIST. RRFB POST ASSEMBLY
(R&SALVAGE)

INSTALL RRFB POST ASSEMBLY (A) (B)
STA. 415+49, 23.8' RT.

W11-2
W16-7P
(A)

W11-2
W16-7P
(B)

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	198

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	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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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 90 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT MARCUS AVENUE

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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SCALE

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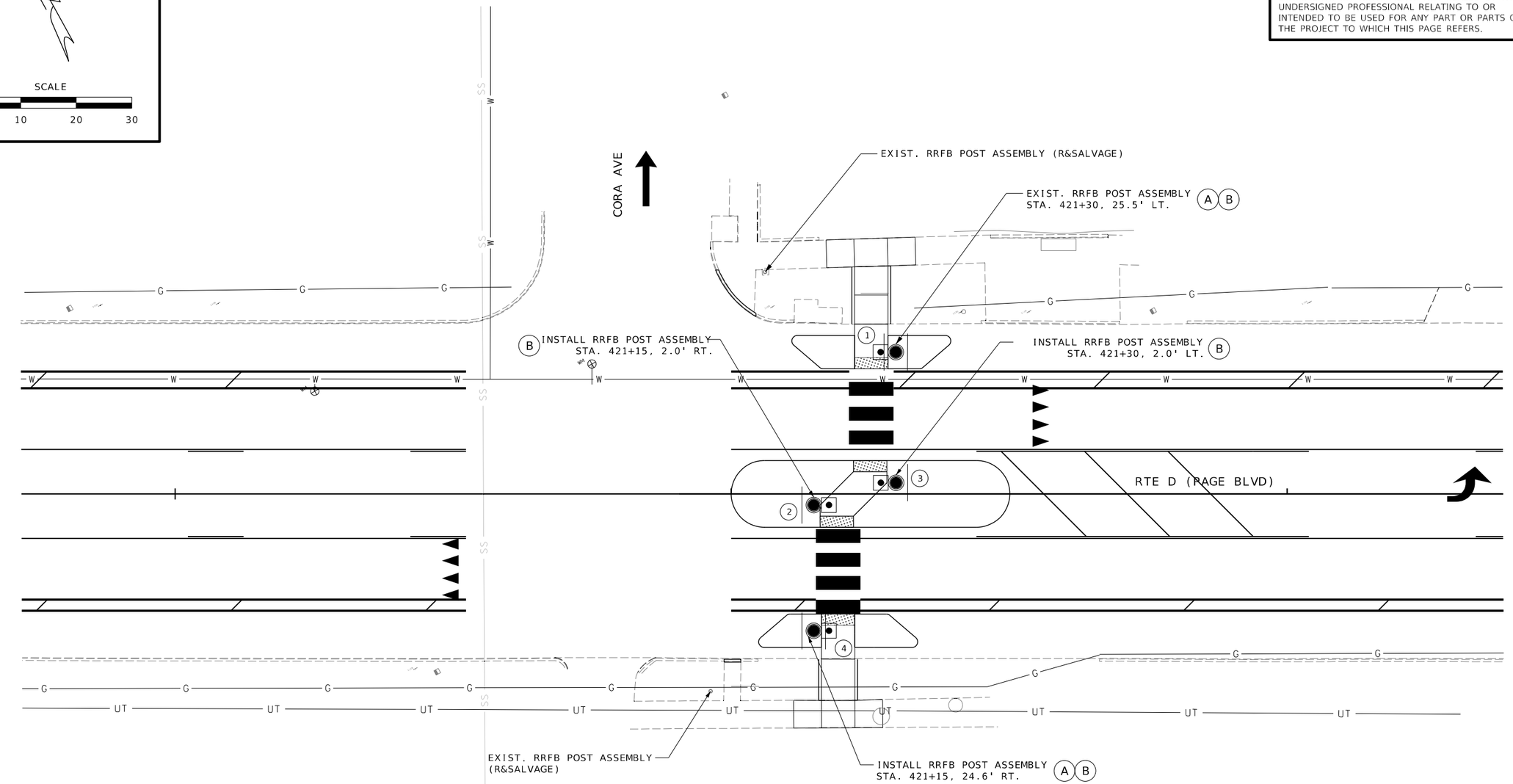

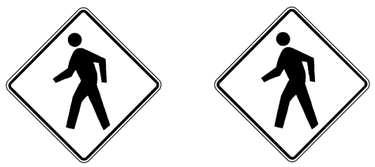

SHEET 91 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING
AT CORA AVENUE

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	199

COUNTY
ST. LOUIS

JOB NO.
J6S3438

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE	REV.

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

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

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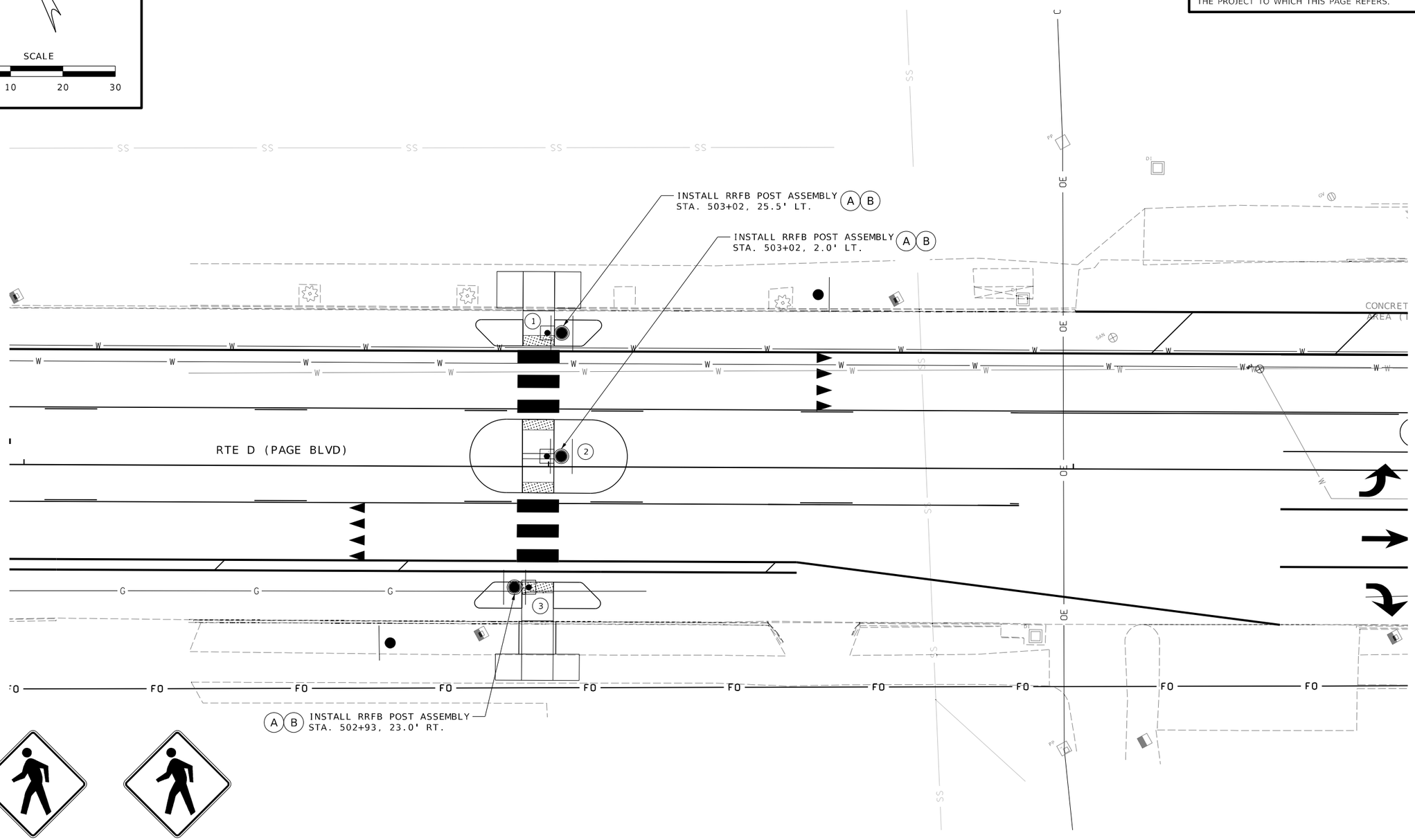

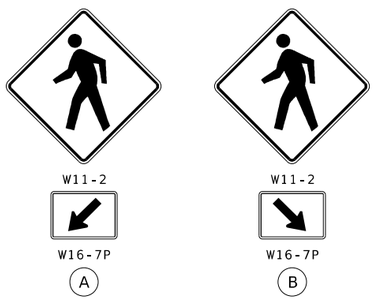

SHEET 92 OF 99

RRFB PLAN SHEET

ROUTE D
MIDBLOCK CROSSING WEST
OF GRAND BOULEVARD

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	200

COUNTY
ST. LOUIS

JOB NO.
J6S3438

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
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

REV.

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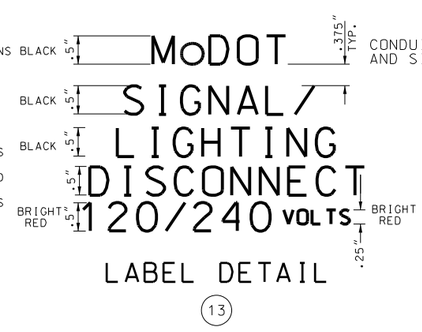
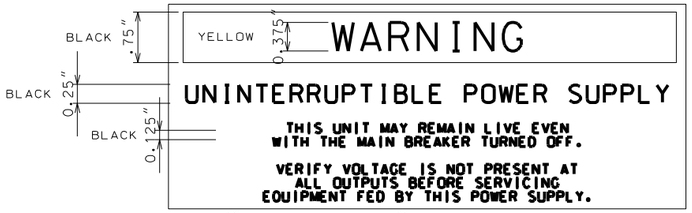
GENERAL NOTES:

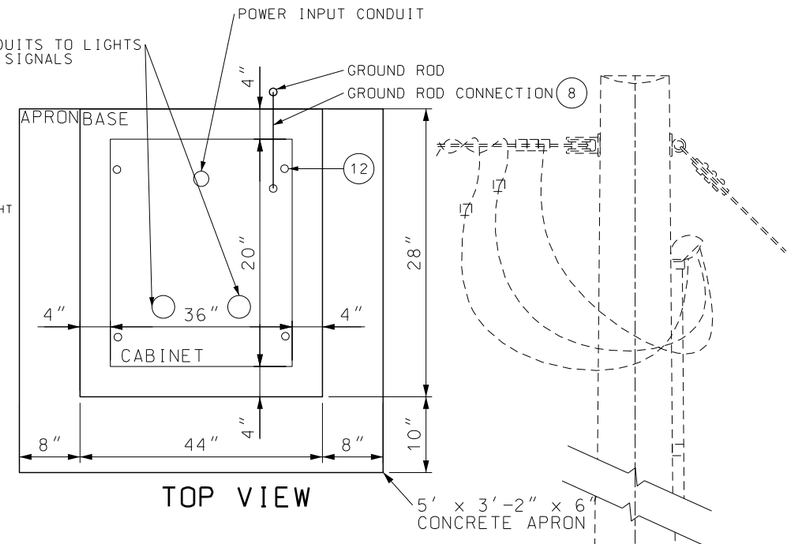
1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY.' CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.



LABEL DETAIL (13)

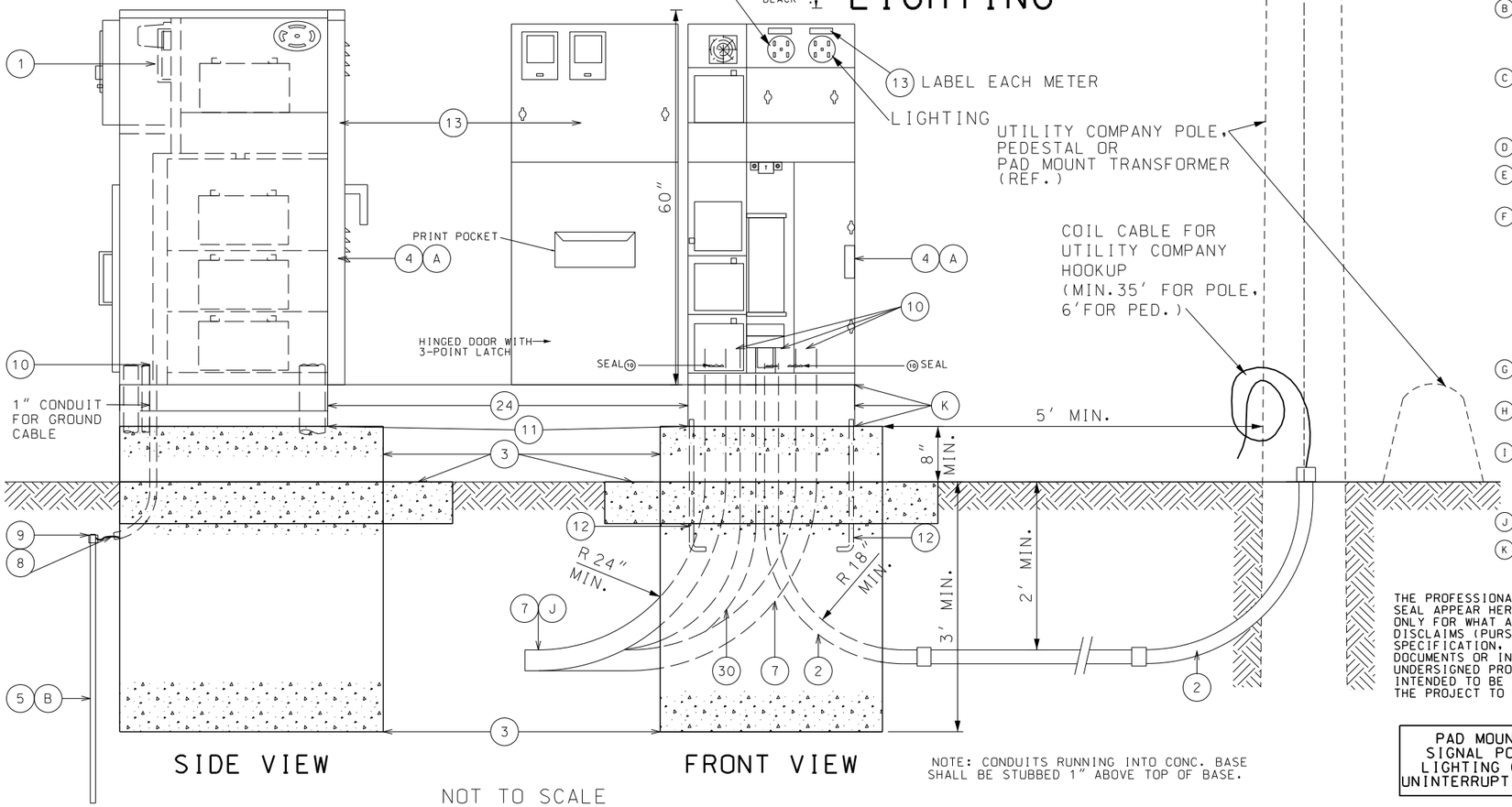


5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)



TOP VIEW

LABEL DETAIL (13)



SIDE VIEW

FRONT VIEW

NOT TO SCALE

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS ✱
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS ✱
23	#2 AWG MIN., 600 V., POWER CABLE ✱
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
✱	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

SIGNAL DETAIL SHEET

ROUTE D
POWER SUPPLY

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 201
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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PRO. ENGINEER 000133
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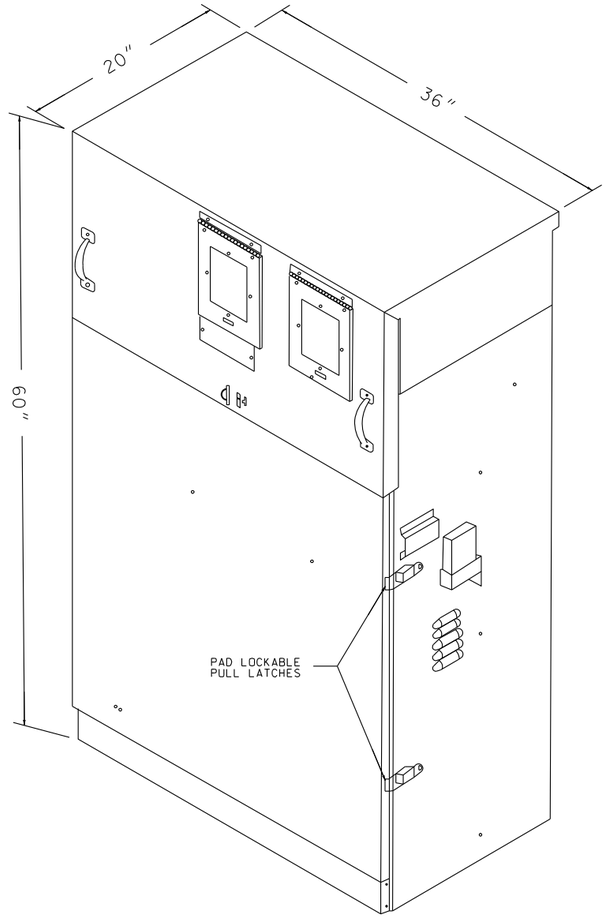
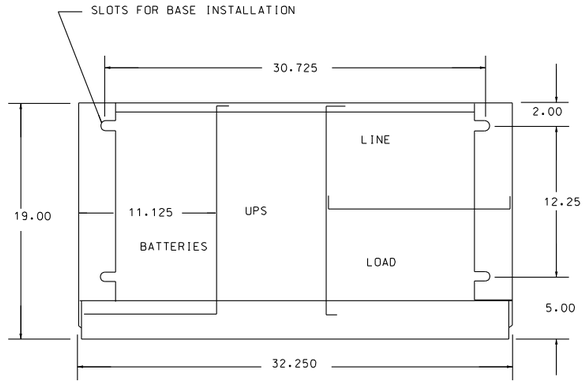
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

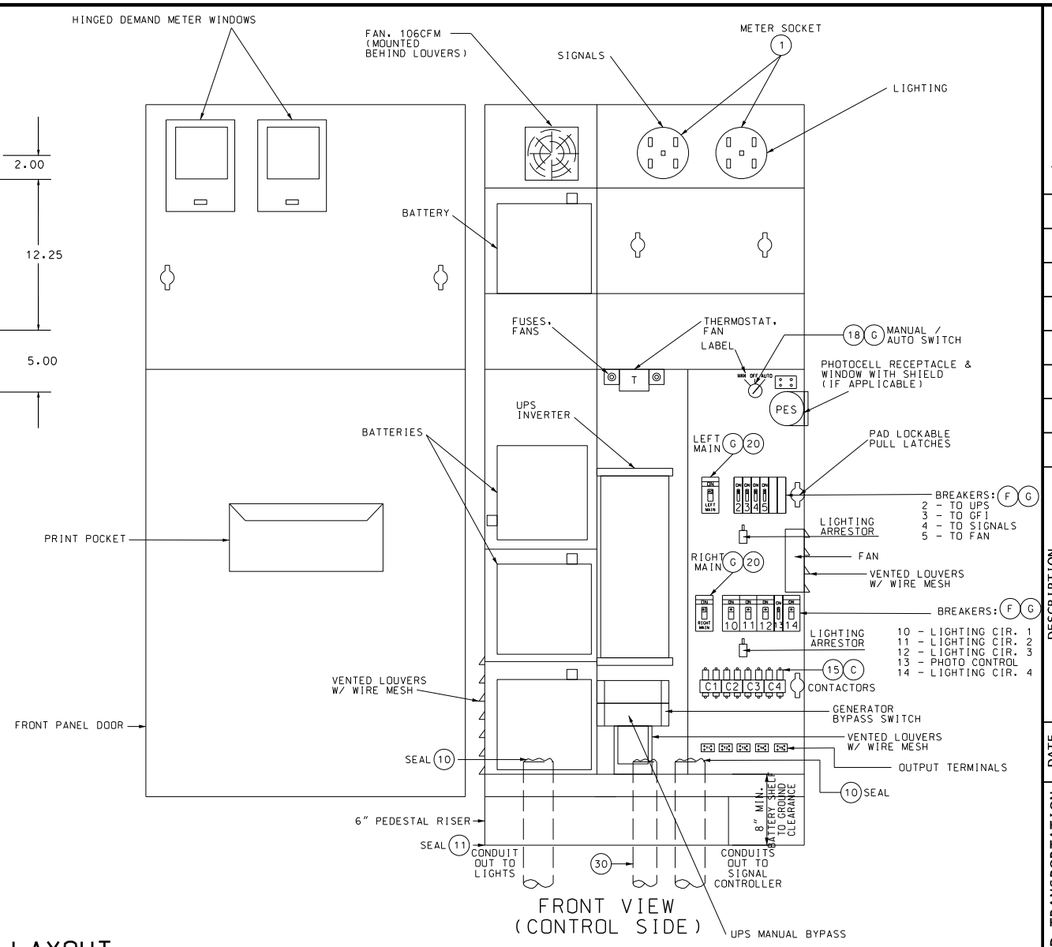




PEDESTAL PLAN VIEW

MOUNTING SLOT DETAIL

NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



FRONT VIEW
(CONTROL SIDE)

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

EQUIPMENT LAYOUT

NOT TO SCALE

LIST OF MATERIALS			
ITEM	DESCRIPTION		
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS		
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES		
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)		
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET		
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)		
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT		
7	2" MIN. SCH 40 PVC CONDUIT (REF.)		
8	#2 AWG MIN., 600 V., GROUND CABLE		
9	EXOTHERMIC WELD WIRE TO ROD		
10	PLIABLE SEALANT		
11	LIFETIME SILICONE CAULK		
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED		
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)		
14	INSULATED TERMINAL BLOCK		
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR		
16	2-POLE, 650 VOLT LIGHTNING ARRESTER		
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH		
18	MANUAL-AUTO SWITCH		
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP		
20	2-POLE, TYPE A MAIN BREAKER	26	30A GENERATOR MALE BASE
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *	27	INVERTER (1100VA MINIMUM)
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *	28	1-POLE, 40 AMP, TYPE B UPS BREAKER
23	#2 AWG MIN., 600 V., POWER CABLE *	29	1-POLE, 15 AMP, TYPE B FAN BREAKER
24	6" PEDESTAL RISER	30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)	*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

DISCLAIMER
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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

SIGNAL DETAIL SHEET

ROUTE D
POWER SUPPLY

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 202
COUNTY ST. LOUIS
JOB NO. J6S3438
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

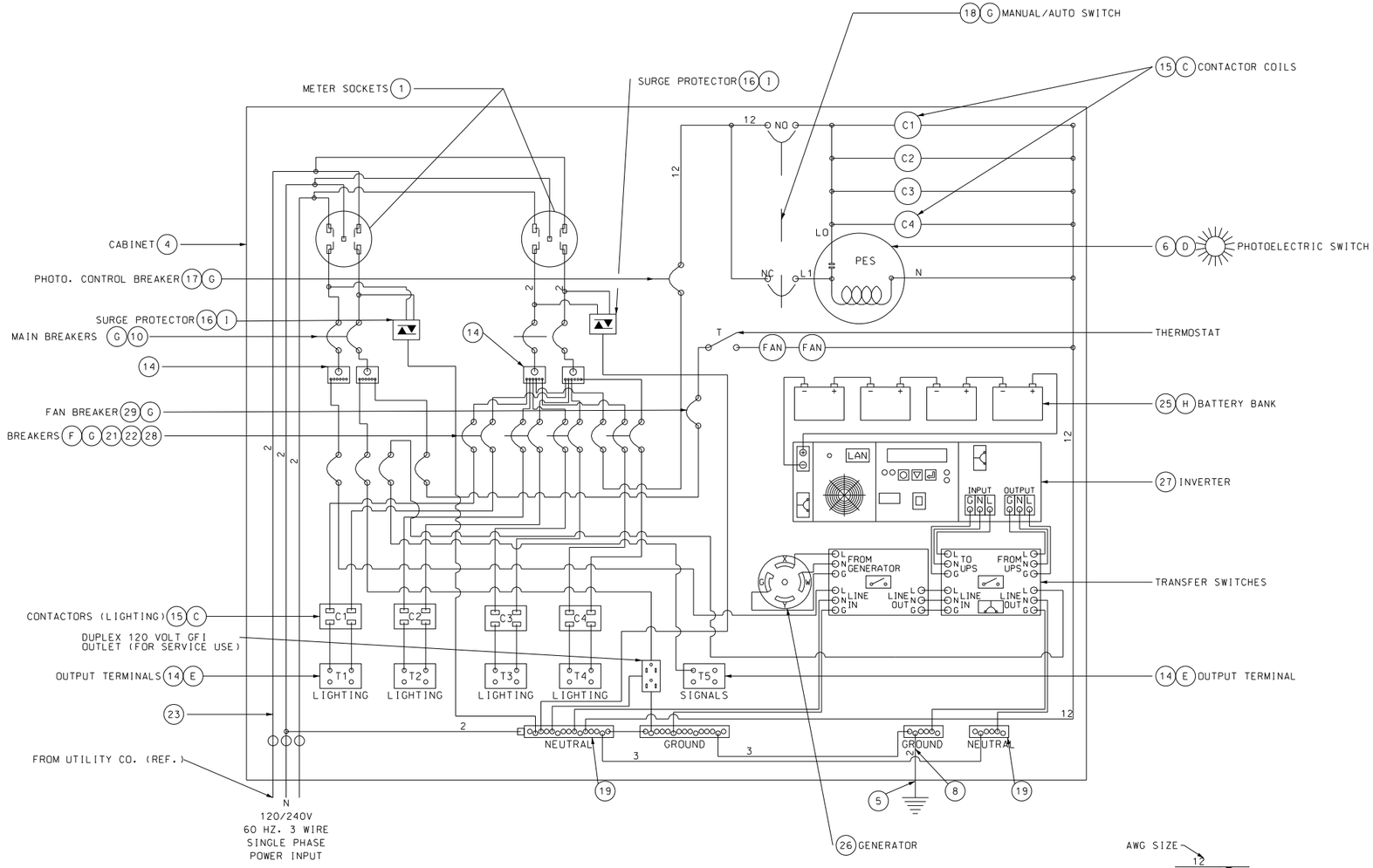
DESCRIPTION | DATE | REV.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421



WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS. CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

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(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

SIGNAL DETAIL SHEET

ROUTE D
POWER SUPPLY

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	203

COUNTY: ST. LOUIS
JOB NO.: J6S3438
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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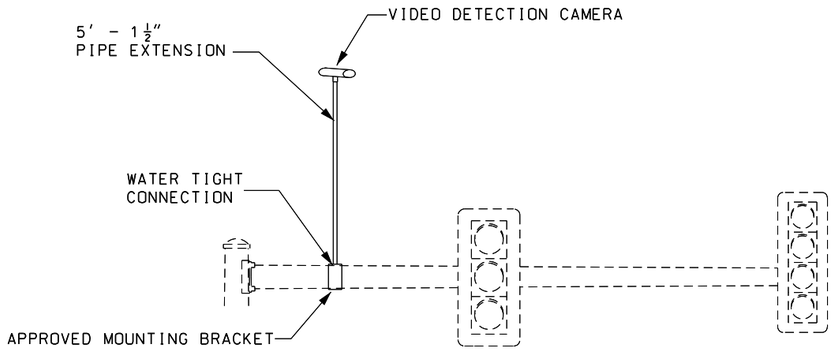
GBAteam.com

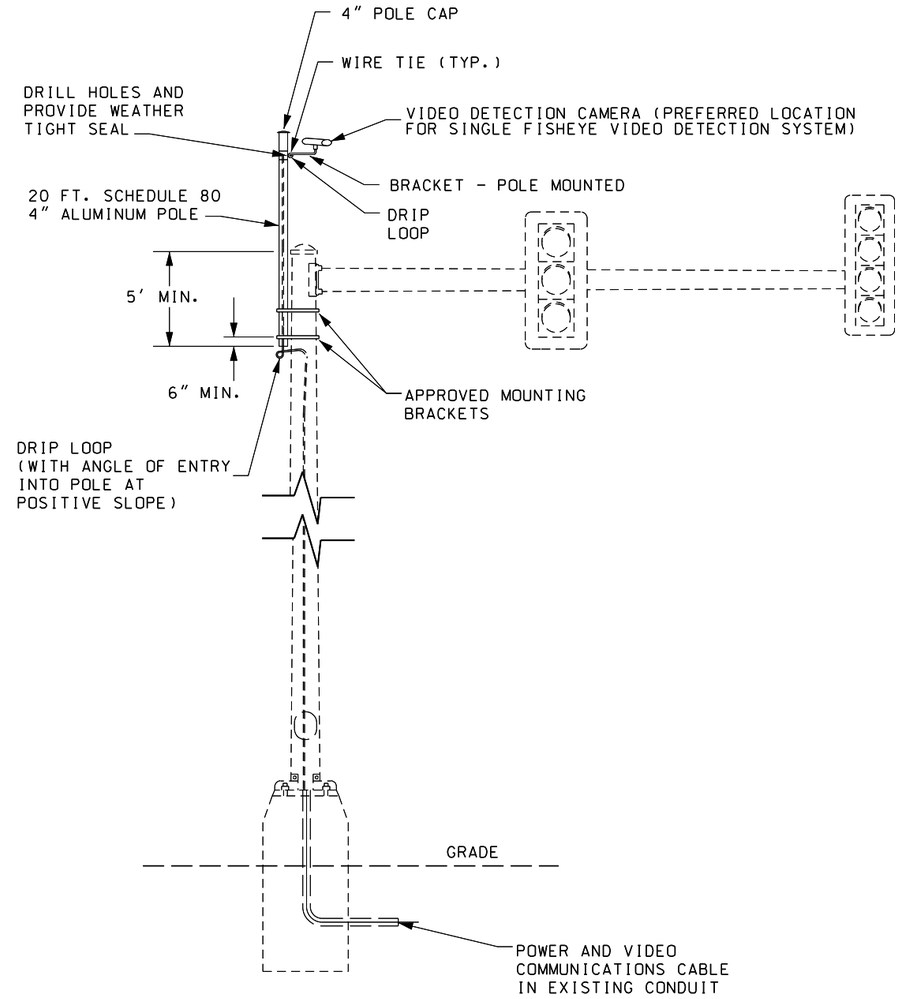
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.



CAMERAS SHALL BE AS CLOSE AS POSSIBLE TO CENTER OF SIGNALIZED APPROACH



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GENERAL NOTES:

1) PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.
2) CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3) NO CAMERA SHALL BE INSTALLED ON PEDESTALS UNLESS DIRECTED BY THE ENGINEER.
4) NO CAMERA SHALL BE INSTALLED ON 15' LUMINAIRE ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

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DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	204

COUNTY: ST. LOUIS

JOB NO. J6S3438

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
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ASSOCIATES, INC.
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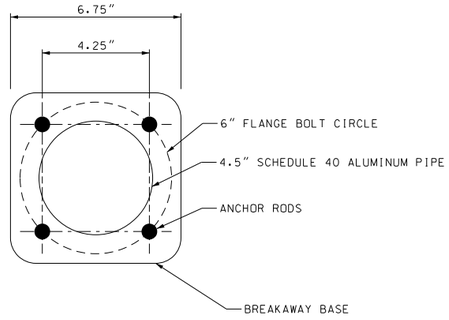
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL
ENGINEER
PE-2018024421

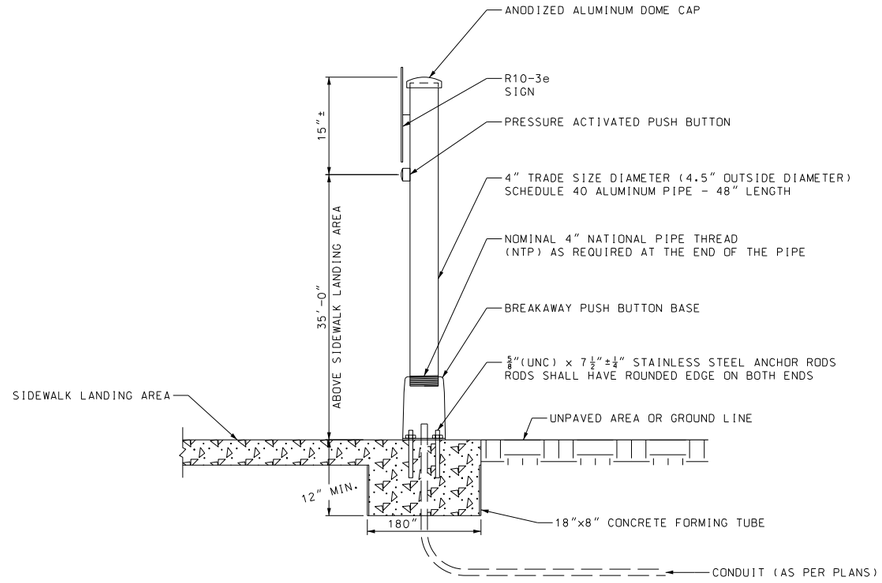
SIGNAL DETAIL SHEET

ROUTE D
VIDEO DETECTION

REV.



ANCHOR ROD PLACEMENT



PUSH BUTTON STANCHION

NOTES:

- THE PUSH BUTTON STANCHION FOUNDATION IS CONSTRUCTED AS PART OF THE SIDEWALK. INCREASE THE SIDEWALK THICKNESS TO 12" (MIN.) TO PROVIDE FOR THE PUSH BUTTON STANCHION FOUNDATION.
- INSTALLATION OF THE PUSH BUTTON STANCHION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- CABLES SHALL HAVE A SLIP-FIT CONNECTION IN THE PEDESTAL THAT WILL DETACH IN THE EVENT THE POLE IS STRUCK.

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	205

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

SIGNAL DETAIL SHEET

ROUTE D
ADA PEDESTRIAN PUSH BUTTON STANCHION

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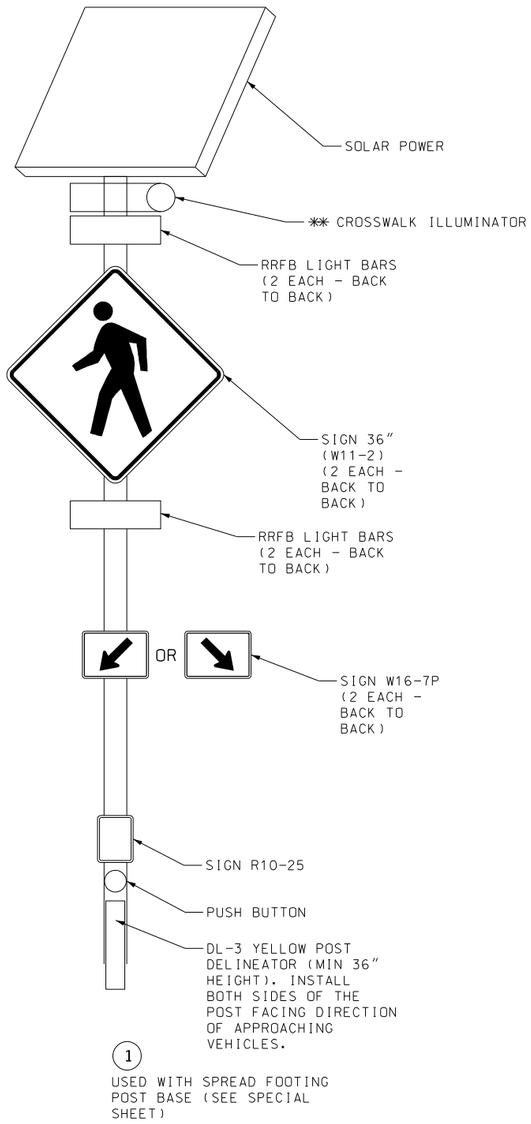
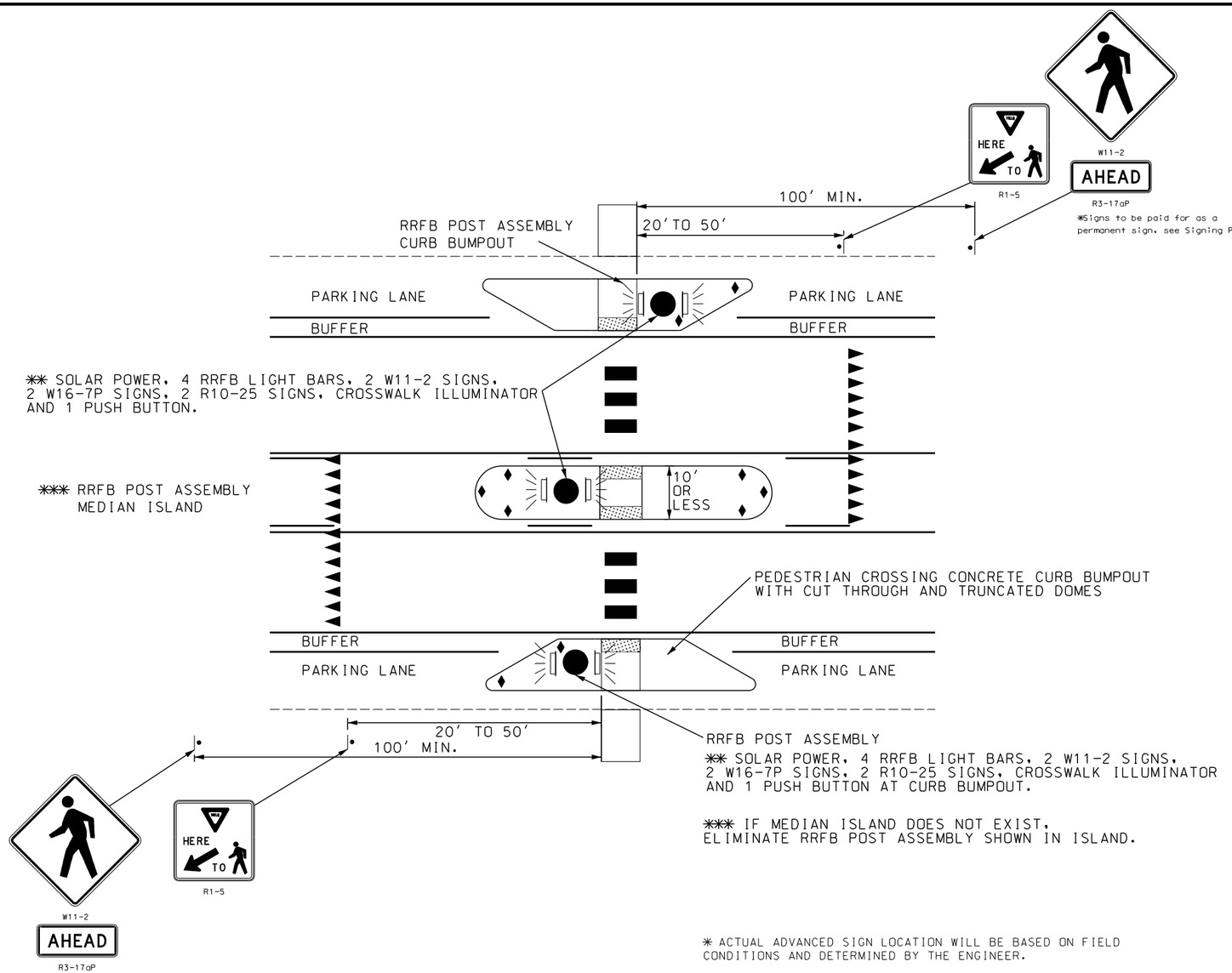


NOT TO SCALE



RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH CROSSWALK ILLUMINATOR
FOR USE WITH MEDIAN ISLAND HAVING WIDTH OF 10' OR LESS

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED	
1/30/2026	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	206

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SIGNAL DETAIL SHEET

ROUTE D
RRFB (RECTANGULAR RAPID FLASHING BEACON)

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

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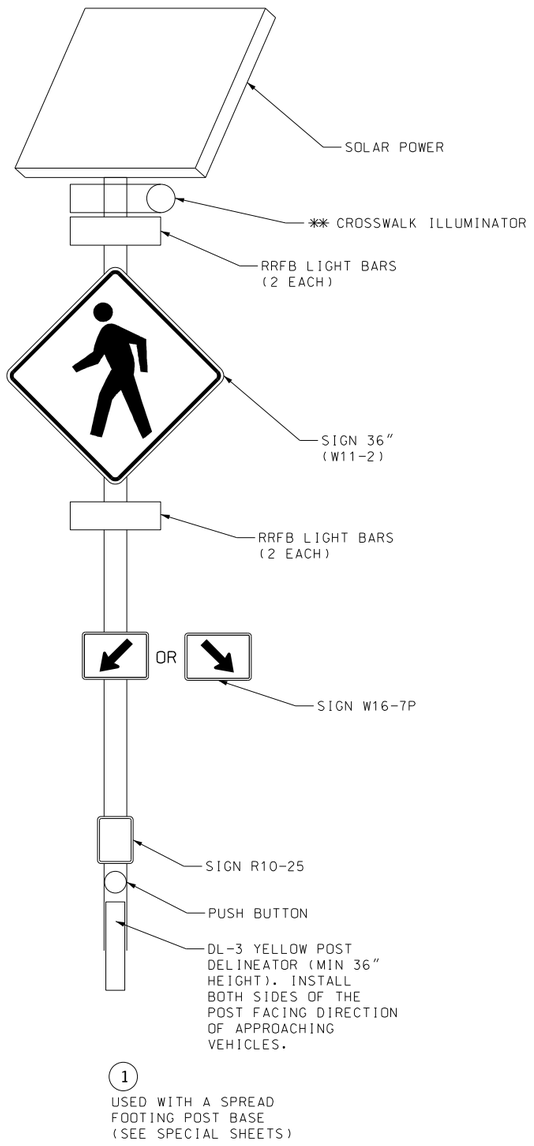
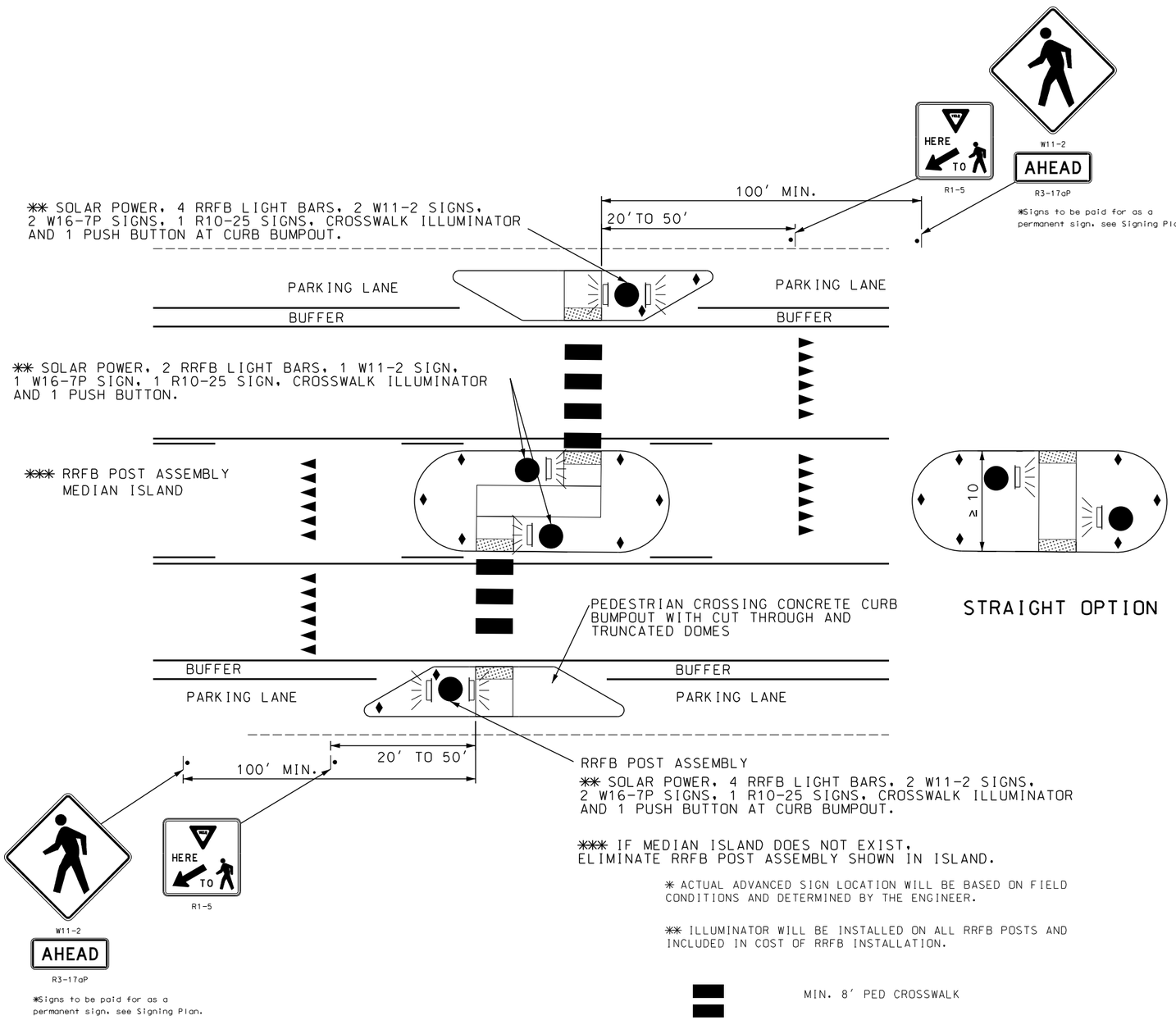


NOT TO SCALE



RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH CROSSWALK ILLUMINATOR
FOR USE WITH MEDIAN ISLAND HAVING WIDTH GREATER THAN 10'

SHEET 99 OF 99

SIGNAL DETAIL SHEET

ROUTE D
RRFB (RECTANGULAR RAPID FLASHING BEACON)

STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	207

COUNTY: ST. LOUIS
JOB NO.: J6S3438
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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

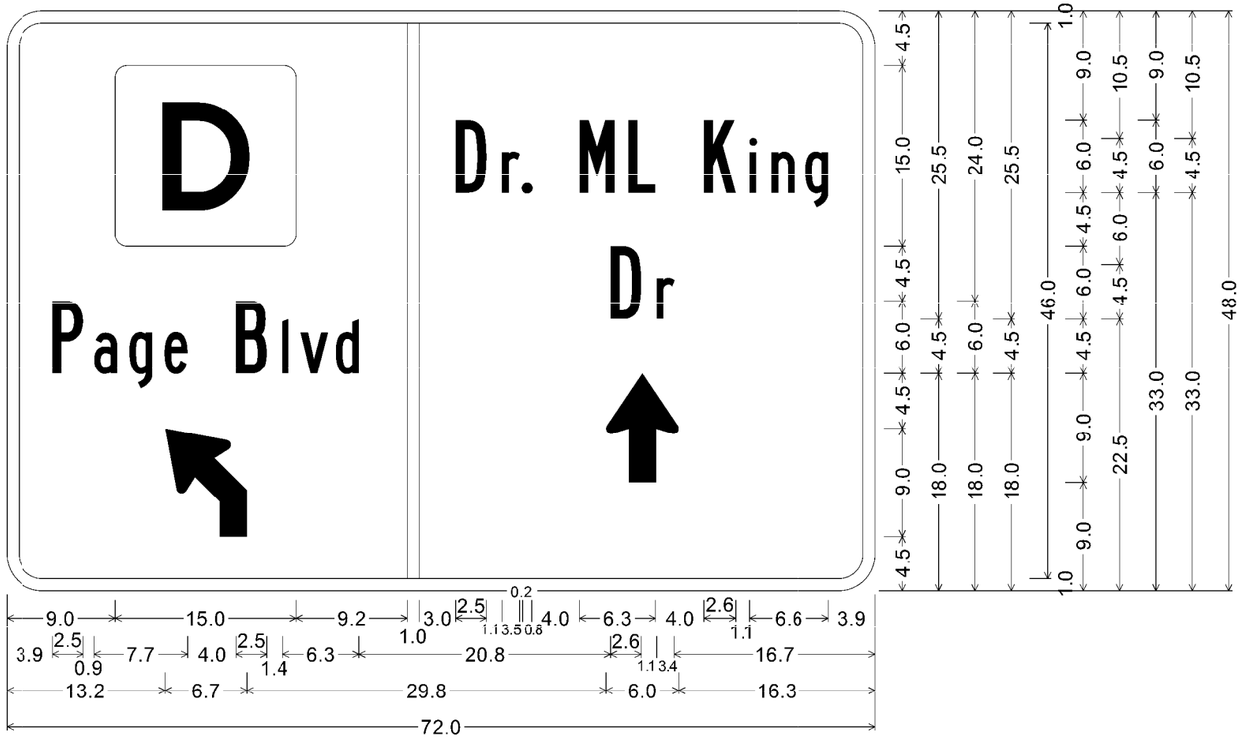
CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

R7-SP;
1.5" Radius, 0.4" Border, 0.4" Indent, Black on White;
"PARK", B; "45 DEGREE", B;
"ANGLE", B;
"WITH RIGHT REAR", B;
"WHEEL TO CURB", B;
"SUNDAY ONLY", B;
"9AM TO 3PM", B;
Table of distances between letter and object lefts

3.8	P 1.0	A 1.4	R 1.3	K 0.8	3.8										
1.0	4 1.3	5 2.3	D 1.1	F 1.1	G 1.3	R 1.1	F 1.1	F 0.8	0.9						
3.3	A 1.3	N 1.1	G 1.3	L 1.0	E 0.8	3.3									
1.6	W 0.9	I 0.3	T 0.5	H 1.4	R 0.6	I 0.3	G 0.6	H 0.6	T 1.4	R 0.5	E 0.5	A 0.8	R 0.4	1.6	
2.0	W 0.8	H 0.6	E 0.5	E 0.5	L 1.4	T 0.5	O 1.5	C 0.5	U 0.6	R 0.6	B 0.5	2.0			
2.6	S 0.6	U 0.6	N 0.6	D 0.6	A 0.6	Y 1.5	O 0.8	N 0.5	L 0.4	Y 0.5	2.8				
2.8	9 0.5	A 0.8	M 1.4	T 0.5	O 1.5	3 0.6	P 0.6	M 0.5	2.8						

SIGN NO.	A, B
STATION	513+29, 516+35
ROADWAY	ROUTE D



SP-1;
3.0" Radius, 1.0" Border, White on Green;
State Highway D M1-5a; "Page Blvd", B; 45 Deg Advance Turn Arrow 6.8" X 9.0";
"Dr. ML King", B; "Dr", B; Standard Arrow 9 9.0" X 6.0" 90^;
Table of distances between letter and object lefts

9.0	D 24.2	I 4.0	D 3.8	r 1.7	. 4.8	M 4.0	L 6.3	K 3.7	i 1.8	n 2.9	g 1.9	3.9			
3.9	P 3.4	a 2.9	g 2.9	e 5.9	B 3.9	l 1.5	v 2.9	d 22.7	D 3.9	r 1.4	16.7				
13.2	36.5	6.0	16.3												

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STATE OF MISSOURI
CHRISTOPHER NOVOSEL
NUMBER PE-2018024421
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
1/30/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	208

COUNTY
ST. LOUIS
JOB NO.
J6S3438
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)

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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SIGN DETAILS
ROUTE D

SHEET 1 OF 1

CHRISTOPHER NOVOSEL
PROFESSIONAL ENGINEER
PE-2018024421

REV.

D-31