MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

ST. LOUIS CITY

DESIGN DESIGNATION

I-70 EB & WB
A.A.D.T. - 2021 = 60,767(EB) 58,597(WB)
A.A.D.T. - 2041 = 67,141(EB) 64,743(WB)
D.H.V. = 18.4% (EB & WB)
T = 18.4% (EB & WB)
V = 55 MPH (EB & WB)
DESIGN SPEED = 65 MPH (EB & WB)
D = 51%(EB) 49%(WB)
FUNCTIONAL CLASSIFICATION - INTERSTATE

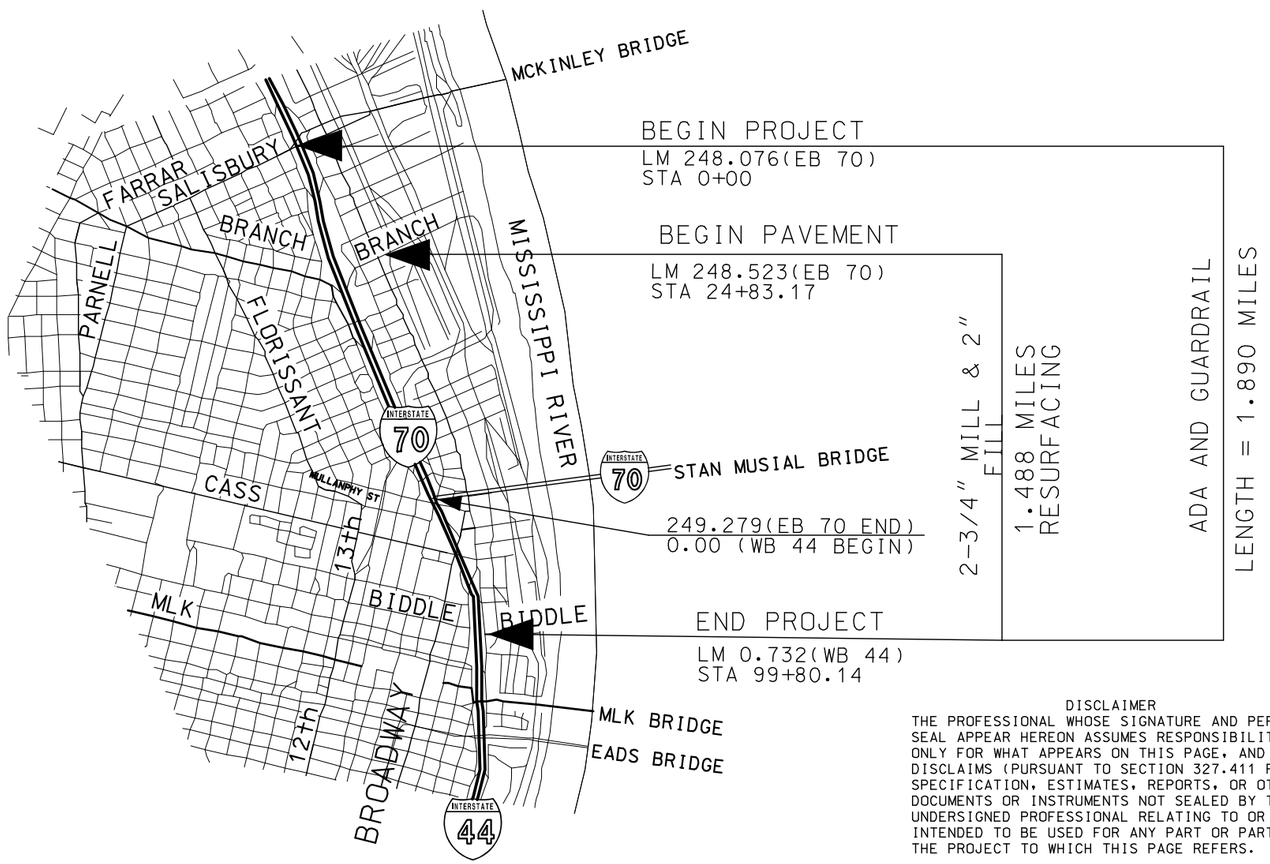
I-44 EB & WB
A.A.D.T. - 2021 = 35,786(EB) 37,535(WB)
A.A.D.T. - 2041 = 39,540(EB) 41,472(WB)
D.H.V. = 18.4% (EB & WB)
T = 18.4% (EB & WB)
V = 55 MPH (EB & WB)
DESIGN SPEED = 65 MPH (EB & WB)
D = 49%(EB) 51%(WB)
FUNCTIONAL CLASSIFICATION - INTERSTATE

NO NEW RIGHT OF WAY
WILL BE REQUIRED
FOR THIS PROJECT

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	~~FO~~
OVERHEAD CABLE TV	-OTV-	~~OTV~~
UNDERGROUND CABLE TV	-UTV-	~~UTV~~
OVERHEAD TELEPHONE	-OT-	~~OT~~
UNDERGROUND TELEPHONE	-UT-	~~UT~~
OVERHEAD POWER	-OE-	~~OE~~
UNDERGROUND POWER	-UE-	~~UE~~
SANITARY SEWER	-S-	~~S~~
STORM SEWER	-SS-	~~SS~~
GAS	-G-	~~G~~
WATER	-W-	~~W~~
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	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	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



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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.

NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
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REFERENCE POINTS (RP)	12
COORDINATE POINTS (CP)	13-13A
TRAFFIC CONTROL SHEETS (TC)	14-19A
SIGNALS (SG)	20-31A
PAVEMENT MARKING (PM)	32-38

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0.299 ACRES

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	0 + 00
END OF PROJECT	STA.	99 + 80.14
APPARENT LENGTH		9980.14 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	9980.14	FEET
STATE LENGTH	1.890	MILES

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/3/2021	
ROUTE: I-70/44	STATE: MO
DISTRICT: SL	SHEET NO.: 1
COUNTY: ST. LOUIS CITY	
JOB NO.: J6I3424	
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)

TITLE SHEET

REV.

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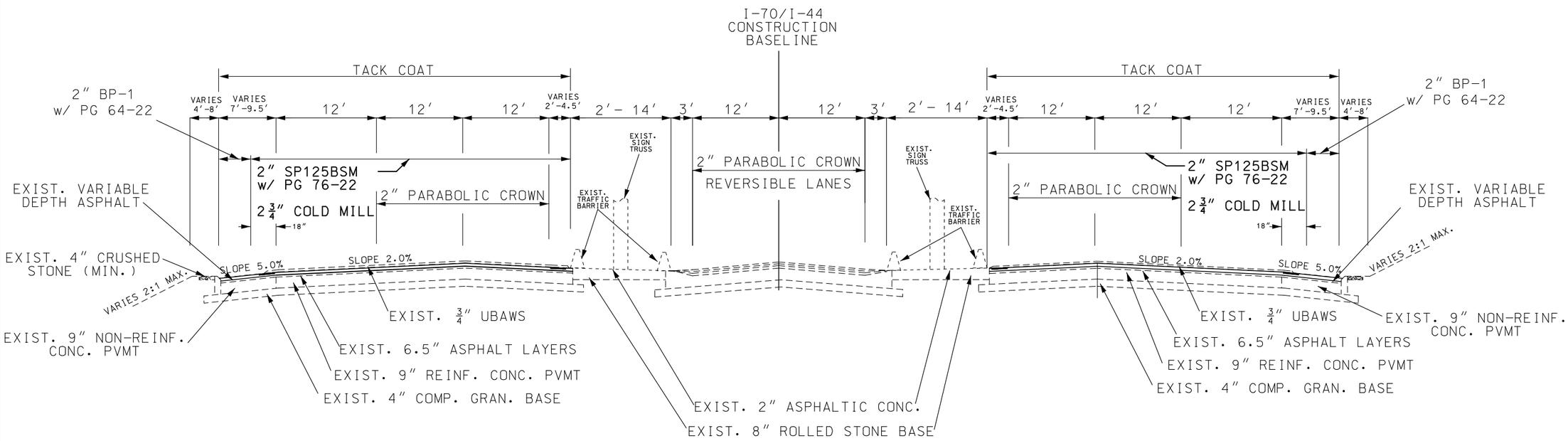

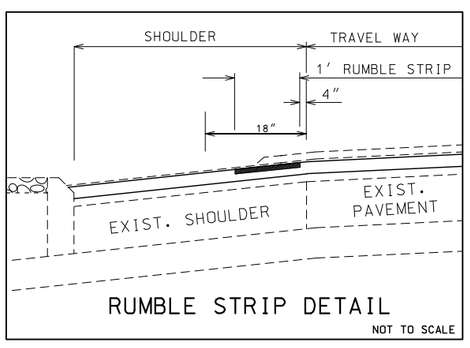

CONSTRUCTION BASELINE STATIONING

I-70/44 (STA. 24+83.17 TO 99+80.14)

BRANCH ST. TO BIDDLE ST.

APPLICATION RATE
SP125BSM w/ PG 76-22: 1.954 TONS/CY COMPACTED
BP1 w/ PG 64-22: 1.968 TONS/CY COMPACTED
TACK COAT: 0.13 GAL/SY FOR COLDMILLED SURFACES
TACK COAT: 0.06 GAL/SY FOR NEW ASPHALT SURFACES

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
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DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	2

COUNTY ST.LOUIS CITY

JOB NO. J6I3424

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

TYPICAL SECTION
SHEET 1 OF 3

REV.

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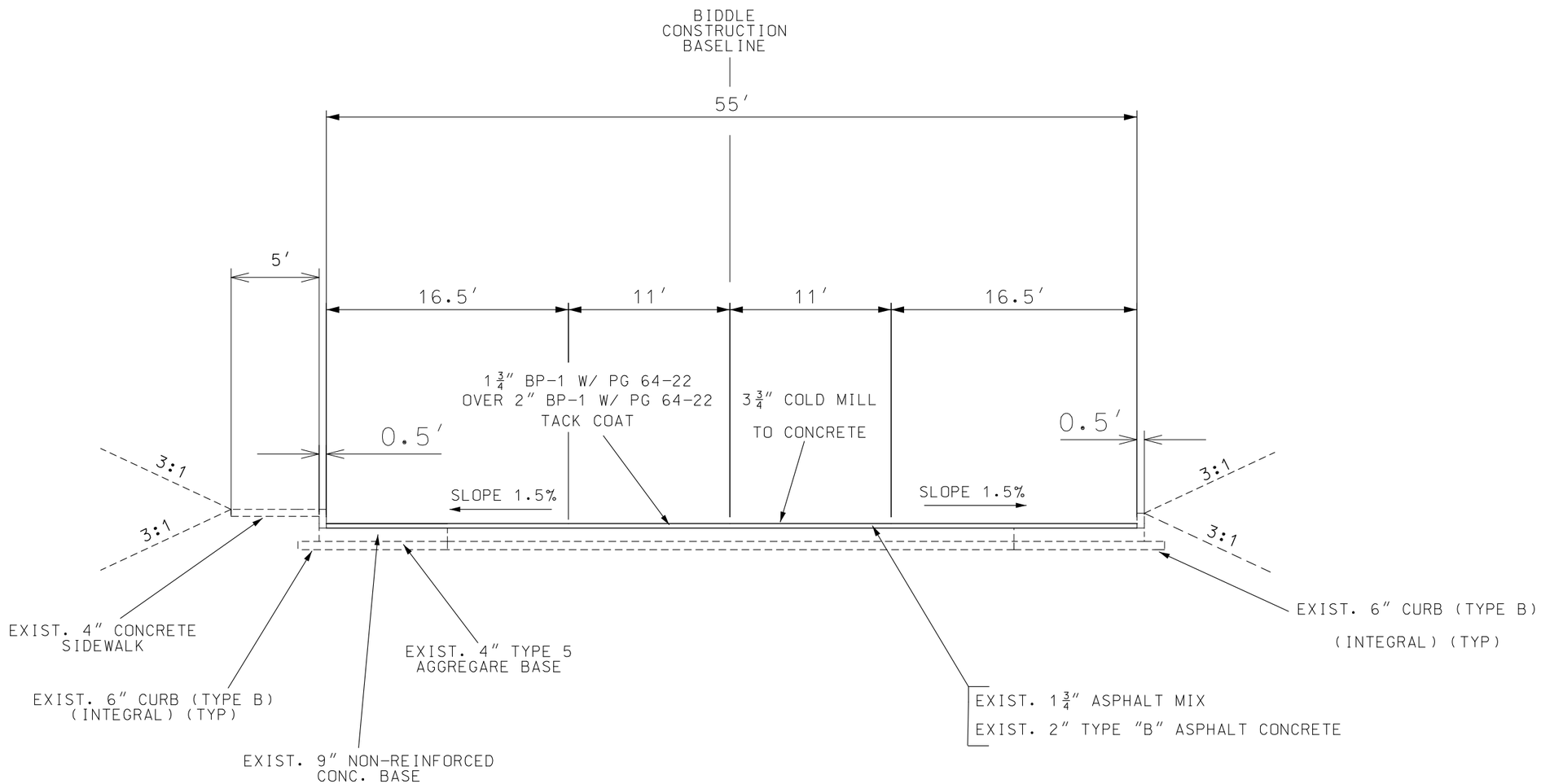

BIDDLE STREET

STA 0+04.2 TO 1+35.74

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/3/2021	
ROUTE: I-70/44	STATE: MO
DISTRICT: SL	SHEET NO.: 2
COUNTY: ST.LOUIS CITY	
JOB NO.: J6I3424	
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)

TYPICAL SECTION
SHEET 2 OF 3

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

REV.

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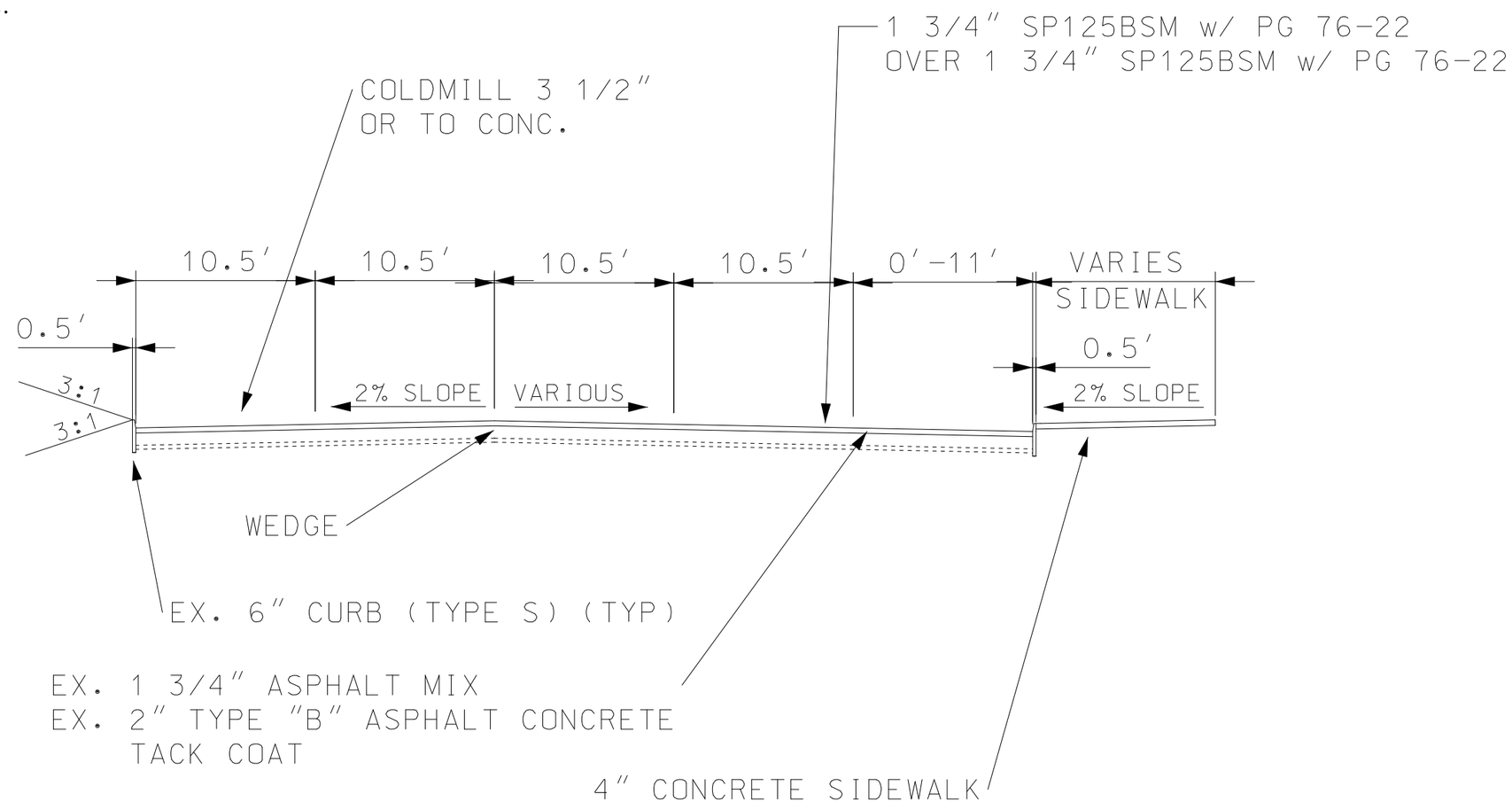

BROADWAY

STA 17+25 TO 24+05

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	2
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
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)

TYPICAL SECTION
SHEET 3 OF 3

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

REV.

PAVEMENT RESURFACING

PLAN SHEET NO.	ROADWAY	DIR.	STATION	STATION	AREA OF PAVEMENT	2" ASPHALTIC CONCRETE MIXTURE PG 76-22 SP125BSM	COLDMILL LESS THAN 3"	TACK COAT	REMARKS
					S.Y.	TONS	S.Y.	GAL.	
5-7	I-70	EB	24+83.17	48+03.88	10,483	1,138.0	10,483.0	1,991.8	INCLUDES GORE PAVEMENT
6	I-70	EB	25+45	32+63	1,175	127.6	1,175.0	223.3	OFF RAMP TO N 11TH ST
7	I-70	EB	43+19	46+47	1,390	150.9	1,390.0	264.1	11TH ST ON RAMP TO I-70
7-8	I-70	EB	48+03.88	63+17	8,290	899.9	8,290.0	1,575.1	INCLUDES AUX. LANE PAVEMENT
8	I-70/I-44	EB/WB	63+17	64+76	230	25.0	230.0	43.7	OFF RAMP TO 9TH ST
8-9	I-44	WB	63+17.12	75+65.33	5,370	582.9	5,370.0	1,020.3	
9-10	BROADWAY		0+00	14+14	4,250	461.4	4,250.0	807.5	OFF RAMP TO BROADWAY
9-11	I-44	WB	75+65.33	98+57.55	7,620	827.2	7,620.0	1,447.8	
11	I-44	WB	98+57.55	99+80.14	400	43.4	400.0	76.0	
11	I-44	EB/WB	96+75	99+80.14	600	65.1	600.0	114.0	REVERSIBLES LANE 300'
								0.0	
6	I-70	WB	25+47	31+45	2,170	235.6	2,170.0	412.3	BRANCH ST. OFF RAMP
6-7	I-70	WB	25+63.8	43+06.46	8,840	959.6	8,840.0	1,679.6	INCLUDES AUX. LANE PAVEMENT
7	I-70	WB	42+72	44+07	280	30.4	280.0	53.2	N 10TH ST ON RAMP
7-8	I-70/I-44	WB/EB	43+06.46	61+77.82	7,970	865.2	7,970.0	1,514.3	
8-9	I-44	EB	61+77.82	74+70.66	5,860	636.1	5,860.0	1,113.4	INCLUDES AUX. LANE PAVEMENT
9-10	I-44	EB	74+70.66	87+88.1	5,650	613.3	5,650.0	1,073.5	INCLUDES AUX. LANE PAVEMENT
10	I-44	EB	87+88.1	93+54.39	3,030	328.9	3,030.0	575.7	INCLUDED DECEL. LANE PAVEMENT
10-11	I-44	EB	93+54.39	97+45.71	1,660	180.2	1,660.0	315.4	INCLUDED DECEL. LANE PAVEMENT
10-11	I-44	EB	93+24	98+81	1,090	118.3	1,090.0	207.1	3RD ST ON RAMP
11	I-44	EB	97+45.71	99+80.14	1,050	114.0	1,050.0	199.5	
				SUBTOTALS	77,408.0	8,403.0	77,408.0	14,707.6	
				SUBTOTAL FROM SHEET 1	–	772.8	64.0	911.0	FROM STREET PAVEMENT TABLE
				SUBTOTAL FROM SHEET 2	–	–	16,565.0	2,153.5	FROM SHOULDER PAVEMENT TABLE
				TOTAL S	77,408.0	9,175.8	94,037	17,772	
				PAYTOTALS	–	9,175.8	94,037	17,772	

STREET PAVEMENT

PLAN SHEET NO	BEGIN STATION	END STATION	ROADWAY	LOCATION	AREA	COLDMILL GREAT THAN 3"	COLDMILL LESS THAN 3"	PAVEMENT MIXTURE PG 64-22 1.75" BP1 OVER 2" BP1	2" ASPHALTIC CONCRETE MIXTURE PG 76-22 SP125BSM	3.5" ASPHALTIC CONCRETE MIXTURE PG 76-22 SP125BSM	TACK COAT	REMARKS
					S.Y.	S.Y.	S.Y.	TONS	TONS	TONS	GAL.	
11	17+25	24+05	BROADWAY		4000.0	4,000.0				759.9	760.0	3.5" MILL AND FILL
11	0+04.2	1+35.74	BIDDLE	UNDER I-44	750.0	750.0		153.8			142.5	3.75" MILL AND FILL
26			9TH ST	MCKINLEY	63.6		63.6		12.9		8.3	2" MILL AND FILL
					SUBTOTALS	4,750.0	63.6	153.8	12.9	759.9	910.8	
					TOTALS	4,750.0	64	153.8	772.8		911	
					PAYTOTALS	4,750	*	**	*		*	

* SEE PAVEMENT RESURFACING FOR FINAL PAY TOTALS (QTY SHEET 1 OF 8)

** SEE SHOULDER PAVEMENT FOR FINAL PAY TOTALS (QTY SHEET 2 OF 8)

MOBILIZATION – 1 LUMP SUM

CONTRACTOR FURNISHED SURVCEYING AND STAKING – 1 LUMP SUM

TEMPORARY TRAFFIC CONTROL – 1 LUMP SUM

TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING – 1 LUMP SUM

TEMPORARY PAVEMENT MARKING PAINT – 1 LUMP SUM

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SUMMARY OF QUANTITIES
SHEET 1 OF 8

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/16/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
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)

QUANTITIES

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

REV.

SHOULDER PAVEMENT

PLAN SHEET NO.	ROADWAY	DIR.	LOCATION	BEGIN STATION	END STATION	AREA OF PAVEMENT (SY)	SHOULDER MIXTURE PG 64-22 2 " BP1 (TON)	COLDMILL LESS THAN 3" (S.Y.)	TACK COAT (GAL)	REMARKS
5-7	I-70	EB	INSIDE	24+83.17	48+03.88	1,900.0	207.7	1,900.0	247.0	
5-7	I-70	EB	OUTSIDE	24+83.17	45+77	1,540.0	168.4	1,540.0	200.2	STOP +06, START +85
7-8	I-70	EB	INSIDE	48+03.88	63+17.12	1,245.0	136.1	1,245.0	161.9	
7-8	I-70	EB	OUTSIDE	48+03.88	63+17.12	650.0	71.1	650.0	84.5	
8	I-70/I-44	EB/WB	OUTSIDE	63+17	64+76	70.0	7.7	70.0	9.1	OFF RAMP TO 9TH ST
8-9	I-44	WB	INSIDE	63+17	75+65.33	970.0	106.1	970.0	126.1	
9	I-44	WB	OUTSIDE	73+91	75+65.33	200.0	21.9	200.0	26.0	
9-10	I-44	WB	OUTSIDE	75+65.33	87+23	1,110.0	121.4	1,110.0	144.3	OFF RAMP TO BROADWAY
9-10	I-44	WB	INSIDE	75+65.33	84+98	700.0	76.5	700.0	91.0	
10-11	I-44	WB	OUTSIDE	87+12	98+57.55	1,100.0	120.3	1,100.0	143.0	
									0.0	
6-7	I-70	WB	INSIDE	25+63.8	42+72	1,220.0	133.4	1,220.0	158.6	STOP 29+84, START 31+45
6-7	I-70	WB	OUTSIDE	25+63.8	43+06.46	1,310.0	143.2	1,310.0	170.3	
7-8	I-70	WB	INSIDE	44+29	50+23	550.0	60.1	550.0	71.5	
7-8	I-70	WB	OUTSIDE	43+06.46	61+77.82	1,260.0		1,260.0	163.8	
9	I-44	EB	INSIDE	67+20	72+76	370.0	40.5	370.0	48.1	
8-9	I-44	EB	OUTSIDE	61+77.82	68+79	420.0	45.9	420.0	54.6	
9-10	I-44	EB	INSIDE	75+78	87+88.1	1,060.0	115.9	1,060.0	137.8	STOP 82+44, START 83+44
10	I-44	EB	INSIDE	87+88.1	92+32	390.0	42.6	390.0	50.7	
10	I-44	EB	OUTSIDE	83+17	87+88.1	240.0	26.2	240.0	31.2	
10	I-44	EB	OUTSIDE	87+88.1	89+63	90.0	9.8	90.0	11.7	
11	I-44	EB	INSIDE	98+02	99+80.14	170.0	18.6	170.0	22.1	
					SUBTOTALS	16,565.0	1,673.4	16,565.0	2,153.5	
					SUBTOTAL FROM SHEET 1	–	153.8	–	–	FROM STREET PAVEMENT TABLE
					TOTALS	16,565	1,827.2	16,565.0	2,153.5	
					PAYTOTALS	–	1,827.2	***	***	

*** SEE PAVEMENT RESURFACING FOR FINAL PAY TOTALS (QTY SHEET 1 OF 8)

RUMBLE STRIPS (BITUMINOUS SHOULDER)

PLAN SHEET NO.	ROADWAY	DIR.	BEGIN STATION	END STATION	LENGTH on LT (FT)	STATIONS on LT	LENGTH on RT (FT)	STATIONS on RT	REMARKS
5	I-70	EB	24+83.17	24+98			15.0	0.15	
5	I-70	EB	24+83.17	24+98	15.0	0.15			
6	I-70	EB	24+98	38+97			1,179.0	11.79	SKIP OFF RAMP TO N 11TH ST (220')
6	I-70	EB	24+98	38+97	1,399.0	13.99			
7	I-70	EB	38+97	52+96			1,299.0	12.99	SKIP 11TH ST ON RAMP TO I-70 (100')
7	I-70	EB	38+97	52+96	1,399.0	13.99			
8	I-70/I-44	EB/WB	52+96	66+95			1,099.0	10.99	SKIP OFF RAMP TO 9TH ST (300')
8	I-70/I-44	EB/WB	52+96	66+95	1,399.0	13.99			
9	I-44	WB	66+95	80+94			869.0	8.69	SKIP OFF RAMP TO BROADWAY (530')
9	I-44	WB	66+95	80+94	1,399.0	13.99			
10	I-44	WB	80+94	94+93			1,399.0	13.99	
10	I-44	WB	80+94	94+93	1,399.0	13.99			
11	I-44	WB	94+93	99+80.14			487.0	4.87	
11	I-44	WB	94+93	99+80.14	487.0	4.87			
6	I-70	WB	25+62.79	38+97			1,165.0	11.65	SKIP BRANCH ST. OFF RAMP (170')
6	I-70	WB	25+62.79	38+97	1,335.0	13.35			
7	I-70	WB	38+97	52+96			1,299.0	12.99	SKIP N 10TH ST ON RAMP (100')
7	I-70	WB	38+97	52+96	1,399.0	13.99			
8	I-70/I-44	WB/EB	52+96	66+95			1,299.0	12.99	SKIP N 10TH ST ON RAMP(100')
8	I-70/I-44	WB/EB	52+96	66+95	1,399.0	13.99			
9	I-44	EB	66+95	80+94			1,199.0	11.99	SKIP OFF RAMP TO 10TH ST (200')
9	I-44	EB	66+95	80+94	1,399.0	13.99			
10	I-44	EB	80+94	94+93			1,299.0	12.99	SKIP ON RAMP FROM 3RD ST (100')
10	I-44	EB	80+94	94+93	1,399.0	13.99			
11	I-44	EB	94+93	99+80.14			487.0	4.87	
11	I-44	EB	94+93	99+80.14	487.0	4.87			
				SUBTOTALS	14,915.00	149.2	13,095.0	130.95	
				TOTALS	_	149	_	131	
				PAYTOTALS	280				

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SUMMARY OF QUANTITIES
SHEET 2 OF 8

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AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/4/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
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)

QUANTITIES

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

REV.

REMOVAL OF IMPROVEMENTS – 1 LUMP SUM

PLAN SHEET NO.	BEGIN STATION	END STATION	ROADWAY CHAIN	LOCATION	DESCRIPTION
5	0+43		BRANCH	RT	EX. ADA RAMP (1); EX. SIDEWALK , 4 SY
5	0+25		BRANCH	LT	EX. ADA RAMP (1)
6	0+00	1+38	HADLEY	PALM ST @HADLEY ST, RT	EX. 9′ OF CURB, EX. SIDEWALK , 91 SY
6				11TH ST & HADLEY	EXISTING SIDEWALK , 157 SY
7	43+21	45+22	WB I-70	RT	EX. CONC. 133 SY, SAW CUT 89.4 FT
8				TYLER & N 10TH ST	EX. 7′ OF CURB; EX. SIDEWALK ,171 SY
8				LA BEAUME & 10TH ST	EX. 8′ OF CURB; EX. SIDEWALK , 25 SY
10	81+14	81+32	WB I-44	RT	EX. CONC. 12 SY, SAW CUT 38 FT
11	18+18	23+27	BROADWAY	BROADWAY & BIDDLE	EX. ADA RAMP (2); EX. SIDEWALK , 367 SY
11	23+27	23+27	BROADWAY	BROADWAY & BIDDLE	EX. FOOTING 1 FOOT BELOW SURFACE
20			9TH ST & SALISBURY	NE	EX. ADA RAMP (1); EX. SIDEWALK 10 SY, PED SIGNAL POLE
20			9TH ST & SALISBURY	SE	EX 20′ OF CURB, EX. ADA RAMP (2), SIDEWALK 7.5 SY
20			9TH ST & SALISBURY	NW	EX. ADA RAMP (1)
20			9TH ST & SALISBURY	SW	EX. ADA RAMP (1)
20			9TH ST & SALISBURY		VIDEO DETECTION SYSTEM
25&26			9TH/11TH ST & MCKINLEY/SALISBURY		VIDEO DETECTION SYSTEM
25			11TH ST & MCKINLEY/SALISBURY	NE	EX. ADA RAMP (1); EX. CONC
25			11TH ST & MCKINLEY/SALISBURY	SE	LIGHT POLE FTG
25			11TH ST & MCKINLEY/SALISBURY	NW	EX. ADA RAMP (2)
25			11TH ST & MCKINLEY/SALISBURY	SW	EX. ADA RAMP (1)
26			9TH ST & MCKINLEY	SW	EX. ADA RAMP (1)
26			9TH ST & MCKINLEY	SE	EX. ADA RAMP (1)
5 & 6	23+98	26+44	EB I-70	RT	✳, 246 FT GUARDRAIL
6	31 +96	34+98	WB I-70	RT	✳, 302 FT GUARDRAIL
7	41+33	42+97	WB I-70	RT	✳, 164 FT GUARDRAIL
7	43+16	44+53	WB I-70	RT	✳, 138 FT GUARDRAIL
8	62+79	63+43	WB I-70	RT	✳, 64 FT GUARDRAIL
8 & 9	63+52	67+91	EB I-70	RT	✳, 455 FT GUARDRAIL, EXIT 249B OFF RAMP
8 & 9	66+16	68+92	EB I-70	RT	✳, 277 FT GUARDRAIL
8 & 9	66+16	68+84	EB I-70	RT	✳, 273 FT GUARDRAIL, 70 EAST TO ILLINIOS EXIT RAMP
9	68+87	71+43	WB I-70	RT	✳, 256 FT GUARDRAIL
9	70+08	72+28	WB I-70	RT	✳, 223 FT GUARDRAIL, EXIT 293 OFF RAMP
9	75+15	78+69	WB I-70	RT	✳, 354 FT GUARDRAIL
9 & 10	79+96	84+82	WB I-44	RT	✳, 486 FT GUARDRAIL
10	87+37	88+53	EB I-44	RT	✳, 118 FT GUARDRAIL
10&11	94+74	95+50	EB I-44	RT	✳, 79 FT GUARDRAIL
11	97+57	98+52	WB I-44	RT	✳, 95 FT GUARDRAIL

✳ INCLUDES EXISTING GUARDRAIL, TRANSITION SECTION, CET AND END ANCHOR

6 INCH CONCRETE MEDIAN STRIP

PLAN SHEET NO.	ROADWAY	LOCATION	6″ CONCRETE MEDIAN STRIP (S.Y.)	DESCRIPTION
20	N 9TH ST & SALISBURY	NE	2.3	POST # 1 QUAD
20	N 9TH ST & SALISBURY	SE	6.4	POST # 2 & 3 QUAD
20	N 9TH ST & SALISBURY	NW	3.33	POST # 6 QUAD
20	N 9TH ST & SALISBURY	SW	0.38	AT BRIDGE END, POST #5 QUAD
20	N 9TH ST & SALISBURY	SW	2.55	POST # 4 QUAD
25	11TH ST & MCKINLEY/SALISBURY	SW	7.9	POST # 4 & 5 QUAD
25	11TH ST & MCKINLEY/SALISBURY	NE	5.0	POST # 1 QUAD
		SUB TOTALS	27.86	
		PAY TOTALS	27.9	

PAVEMENT MARKING REMOVAL (SYMBOLS)

PLAN SHEET	LOCATION	STATION BEGIN	STATION END	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	DESCRIPTION
34	I-44 EB	62+00	64+00	2	MERGE ARROWS
			SUBTOTALS	2	
			PAY TOTALS	2	

NRCCP PAVED APPROACH

PLAN SHEET NO.	ROADWAY	LOCATION	7″ NRCCP PAVED APPROACH (S.Y.)	8″ NRCCP PAVED APPROACH (S.Y.)	DESCRIPTION
6	HADLEY	ALLEY AT RT		20.7	17 X 10′
8	N 10TH ST	TYLER & LA BEAUME	15		12′ X 10′
		SUBTOTALS	15.0	20.7	
		PAYTOTALS	15.0	20.7	

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SUMMARY OF QUANTITIES
SHEET 3 OF 8

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED 8/4/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS CITY
JOB NO.: J6I3424
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

QUANTITIES

REV.

ADA CURB RAMP, SIDEWALK AND CURB

PLAN SHEET NO.	ROADWAY	BEGIN STA.	END STA.	LOCATION	ADA CONCRETE CURB RAMP (EA.)	CONCRETE SIDEWALK 4" (S.Y.)	6" TYPE S CURB (L.F.)	INTEGRAL CURB (OVER 6 IN HEIGHT) TYPE A 8" CURB (L.F.)	MODIFIED TYPE A INTEGRAL CURB (OVER 6 IN. HEIGHT)- DOWLED ON CONCRETE 8" CURB (L.F.)	10" CURB (L.F.)	DESCRIPTION
5	BRANCH	24+71		RT OF CL	1						TYPE 3 PARALLEL CURB RAMP
5	BRANCH	0+36		13TH ST	1						SMALL RADIUS PERPENDICULAR
5	BRANCH	0+43		13TH ST		12.0					REPLACE SIDEWALK
6	HADLEY	1+51		RT	1						SMALL RADIUS PERPENDICULAR
6	HADLEY	1+78		RT	1						SMALL RADIUS PERPENDICULAR
6	HADLEY	0	1+35	RT		90					135' X 6'
6	HADLEY	0	0+22	RT				135			IN FRONT OF SIDEWALK
6	HADLEY	0	1+35	RT					22		BACK OF SIDEWALK
6	HADLEY	0+24		RT		9.5					17' X 5'
6	N 11TH ST	0+11	2+94	RT		157					283'X 5'
8	N 10TH ST	1+72		LT	1						SMALL RADIUS PERPENDICULAR
8	N 10TH ST	1+93		LT	1						SMALL RADIUS PERPENDICULAR
8	N 10TH ST	0+62	1+71	LT		77					115' X 6'
8	N 10TH ST	1+88	3+17	LT		95					142' X 6'
8	N 10TH ST	3+59		LT			8				LA BEAUME
8	N 10TH ST	0+58		LT				7			IN FRONT OF SIDEWALK
8-9	BROOKLYN	3+84	4+21	LT		25					37' X 6'
8	N 11TH ST	63+41		RT	1						COMPOUND PERPENDICULAR RAMP
11	BROADWAY	22+85		RT	1						LARGE RADIUS PERPENDICULAR RAMP
11	BROADWAY	23+27		RT	1						COMPOUND PERPENDICULAR RAMP
11	BROADWAY	22+85	23+27	RT		20					10' x 17' BETWEEN 2 RAMPS
11	BROADWAY	18+18	19+48	RT		77					120' X 6 EXCLUDE DI
11	BROADWAY	19+48	19+92	RT		42					47' X (6' - 10')
11	BROADWAY	19+92	22+20	RT		239.0					220' X 10' EXCLUDE DI
11	BIDDLE	VAR.	VAR.							100	10" TALL - 6" CURB (4" BELOW ASPHALT)
20	SALISBURY	0+07		9TH ST, NE	1						TYPE 3 PARALLEL CURB RAMP
20	SALISBURY			9TH ST, NE		10.0	6				NEW CURB, NEW SIDEWALK
20	SALISBURY	0+07		9TH ST, SE	1						TYPE 3 PARALLEL CURB RAMP
20	SALISBURY	0+10		9TH ST, SE	1						COMPOUND PERPENDICULAR RAMP
20	SALISBURY			9TH ST, SE		7.5	24				NEW CURB IN THE BACK, SIDEWALK 6' X 11'
20	SALISBURY	0+61		9TH ST, SW	1		12				BLENDED TRANSITION CURB RAMP
20	SALISBURY	0+60		9TH ST, NW	1		19				LARGE RADIUS PERPENDICULAR RAMP
25	MCKINLEY			11TH ST, NE	1		17				TYPE 3 PARALLEL CURB RAMP
25	MCKINLEY			11TH ST, SE	1						TYPE 3 PARALLEL CURB RAMP
25	MCKINLEY			11TH ST, SE	1						TYPE 3 PARALLEL CURB RAMP
25	MCKINLEY			11TH ST, SW	1						COMPOUND PERPENDICULAR RAMP
25	MCKINLEY			11TH ST, SW	1						SINGLE PERPENDICULAR RAMP
25	MCKINLEY			11TH ST, NW	1						COMPOUND PERPENDICULAR RAMP
26	MCKINLEY			9TH ST, SE	1						LARGE RADIUS PERPENDICULAR RAMP
26	MCKINLEY			9TH ST, NE	1						LARGE RADIUS PERPENDICULAR RAMP
				SUB TOTALS	22	861.0	86.0	142.0	22.0	100.0	
				PAY TOTALS	22	861.0	86	142	122		

NOTE: SEEDING & MULCHING IS CONCIDERED INCIDENTAL TO THE COST OF SIDEWALK - APPROX. 1125 SQFT

PULLBOX ADJUSTMENT

PLAN SHEET NO.	ROADWAY	LOCATION	ADJUSTING PULLBOX (EA)	DESCRIPTION
11	BROADWAY	RT	3	LIGHTING PB (ADJUST TO GRADE)
20	SALISBURY	9TH ST, NW	1	ADJUST TO GRADE
20	SALISBURY	9TH ST, NE	1	ADJUST TO GRADE
20	SALISBURY	9TH ST, SW	1	LIGHTING PB (ADJUST TO GRADE)
26	MCKINLEY	9TH ST NE	1	LIGHTING PB (RELOCATE)
26	MCKINLEY	9TH ST, SE	1	LIGHTING PB (ADJUST TO GRADE)
		PAY TOTALS	8	

INLET TOP REPLACEMENT

PLAN SHEET NO.	ROADWAY	STA	ADJUSTING PULLBOX (EA)	DESCRIPTION
10	I-44 WB	86+66	1	INLET TOP REPLACEMENT
10	I-44 WB	92+52	1	INLET TOP REPLACEMENT
		PAY TOTALS	2	

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SUMMARY OF QUANTITIES
SHEET 4 OF 8

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

QUANTITIES

REV.

GUARDRAIL

PLAN SHEET NO	GUARDRAIL SEGMENT NO	ROADWAY	BEGIN STATION	END STATION	LOCATION	MGS GUARDRAIL (L.F.)	MODOT ITS ASSETS RELOCATION (5% ESTIMATED) (L.F.)	MGS VERTICAL CONCRETE BARRIER TRANSITION SECTION (REGULAR/ NO CURB) (EACH)	MGS BRIDGE APPROACH TRANSITION SECTION (EXTENDED CURB) (EACH)	MGS END ANCHOR (EACH)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EACH)	SHAPING SLOPE CLASS III (100FT)	REMARKS
5 & 6	1	EB I-70	23+98	26+25	RT	175	9		1	1			
6	2	EB I-70	29+82	31+60	RT	112.5	6			1	1	1.00	
6	3	WB I-70	31+96	32+47	RT	237.5	12		2			1.00	
7	4	WB I-70	41+33	42+46	RT	62.5	3		1		1	1.00	
7	5	EB I-70	44+71	45+23	RT	0	0		1	1			
8	6	EB I-44	62+79	63+79	RT	50	3		1		1		
8 & 9	7	EB I-70/WB I-44	63+52	68+06	RT	412.5	21		1	1			
8 & 9	8	WB I-44	66+16	68+84	RT	262.5	13		1				
8 & 9	9	WB I-44	66+16	68+92	RT	262.5	13	1					
9	10	EB I-44	68+87	71+13	RT	175	9		1		1	1.00	
9	11	EB I-44	70+11	71+97	RT	137.5	7	1			1	1.00	
9	12	EB I-44	75+15	78+41	RT	137.5	7		1		1	1.00	
9 & 10	13	WB I-44	80+00	84+82	RT	412.5	21		3		1	1.00	
10	14	EB I-44	87+37	88+99	RT	75	4		1		1	1.00	
10 & 11	15	EB I-44	94+62	96+57	RT	137.5	7			1	1		
11	16	WB I-44	97+62	98+52	RT	50	3		1		1		
					SUB TOTALS	2700	138	2	15	5	10	8.0	
					PAY TOTALS	2700	138	2	15	5	10	8	

LINEAR GRADING AND ROCK BLANKET

PLAN SHEET NO.	GUARDRAIL SEGMENT NO.	BEGIN STA.	END STA.	ROADWAY	LOCATION	LINEAR GRADING CLASS 2 (STA)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	FURNISHING MODIFIED ROCK BLANKET (CUYD)	PLACING MODIFIED ROCK BLANKET (CUYD)
6	3	31+40.7	35+05.6	WB I-70	RT	3.65	474.69	237.35	237.35
7	5	43+21.1	45+21.7	EB I-70	RT	2	0	0	0
					SUBTOTALS	5.65	474.69	237.35	237.35
					PAY TOTALS	5.7	475	238	238

CONCRETE CURB UNDER GUARDRAIL

PLAN SHEET NO.	GUARDRAIL SEGMENT NO.	BEGIN STATION	END STATION	ROADWAY	LOCATION	BRIDGE/VERTICAL TRANSITION SECTION = 4″ LF	GUARDRAIL = 6″ LF	CET = 4″ LF
6	3	31+96	33+60	WB I-70	RT	37.5	25	100
7	5	44+68	45+22	I-70 EB	RT	37.5	0	0
9	12	75+15	78+91	EB I-44	RT	37.5	237	100
9 & 10	13	79+20	84+82	WB I-44	RT	37.5	394	100
					SUBTOTALS	150	656	300
					PAY TOTAL	1106		

PERMANENT TRAFFIC BARRIER & TYPE A2 SHOULDERS

PLAN SHEET	GUARDRAIL SEGMENT	BEGIN STATION	END STATION	ROADWAY	LOCATION	CONCRETE TRAFFIC BARRIER TYPE C (LF)	CONCRETE TRAFFIC BARRIER TYPE C (RETAINING WALL) (LF)	TYPE A2 SHOULDER (CONC.) (SQYD)	SUBGRADE COMPACTION (6″ DEPTH) (SQYD)	TYPE 5 AGGREGATE BASE (4″ THICK) (SQYD)	REMARKS
7	5	43+21	45+22	I-70 EB	RT		147.49	133.3	133.3	133.3	
10	13	81+14	81+32	WB I-44	RT	17.8		12	12	12	18′x6′
					SUBTOTALS	17.8	147.49	145.3	145.3	145.3	
					PAY TOTALS	18	147	145.3	145	145	

NOTE: SEEDING & MULCHING IS CONCIDERED INCIDENTAL TO THE COST OF CONCRETE TRAFFIC BARRIER TYPE "C" (RETAINING WALL) - APPROX. 0.273 ACRES

SIGNS

PLAN SHEET NO.	STATION	ROADWAY	SIGNS: ONE WAY (36 x 12″) R6-1R (EA)	SIGNS: EMERGENCY MILE MARKER D10-5 (EA)	SIGNS: FLAT SHEET SH (SQUARE FEET)	POSTS: PIPE 2.5″ LENGTH LF	POSTS: PIPE 2.5″ TOTAL LBS	POSTS: PSST POST 2″ TOTAL LF	POSTS: PSST POST ANCHOR 12 GA. LF	FTG EMBD CU YRDS
7	43+33	EB I-70		1	7.5			9.5	3	0.1
7	00+00	11TH ST ON RP	1		3	12.29	71.2			0.13
		SUBTOTALS	1	1	10.5	-	71.2	9.5	3	0.23
		PAY TOTALS	-	-	11	-	70	10	3	0.2

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SUMMARY OF QUANTITIES
SHEET 5 OF 8

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AARON JOHN GROFF
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QUANTITIES

REV.

D-37A SIGNAL QUANTITIES SUMMARY						
PLAN SHEET No.	ROADWAY	LOCATION	BASE CONCRETE (CY)	TOP-MOUNT SIGNAL POST 8 FT (EA)	COUNTDOWN PEDESTRIAN SIGNAL HEAD TYPE 1 S (EA)	PUSH BUTTON EXTENSION (EA)
21	SALISBURY ST	9TH ST	2.2	5	6	1
27	McKINLEY ST	11TH ST & 9TH ST	2.6	6	8	1
		SUB TOTALS	4.8	11	14	2
		PAY TOTALS	4.8	11	14	2

D-37B SIGNAL QUANTITIES SUMMARY						
PLAN SHEET No.	ROADWAY	LOCATION	3" RIGID CONDUIT TRENCHED (L.F.)	3" RIGID CONDUIT PUSHED (L.F.)	CABLE 2c-#16 AWG (L.F.)	CABLE 5c-#16 AWG (L.F.)
22	SALISBURY ST	9TH ST	64		690	690
28	McKINLEY ST	11TH & 9TH ST		156	1,648	1,652
		SUB TOTALS	64	156	2,338	2,342
		PAY TOTALS	64	156	2,340	2,340

D-37C SIGNAL QUANTITIES SUMMARY				
PLAN SHEET No.	ROADWAY	LOCATION	APS-AUDIBLE PEDESTRIAN PUSH BUTTON & SIGNING (EA)	VIDEO DETECTION SYSTEM (EA)
23	SALISBURY ST	9TH ST	6	1
29	McKINLEY ST	11TH ST & 9TH ST	8	1
		SUB TOTALS	14	2
		PAY TOTALS	14	2

30 INCH WHITE MIDBLOCK PREFORMED THERMOPLASTIC		
PLAN SHEET No.	ROADWAY	30 INCH WHITE MIDBLOCK (EA) (9' WIDE)
32	BRANCH @ 13TH ST.	21
37	BROADWAY @ BIDDLE ST.	9
20	SALISBURY @ 9TH ST.	25
25	McKINLEY / SALISBURY @ 11TH ST.	28
26	McKINLEY @ 9TH ST.	8
	SUB TOTALS	91
	PAY TOTALS	91

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SUMMARY OF QUANTITIES
SHEET 6 OF 8

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REV.

PERMANENT PAVEMENT MARKING

PLAN SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LENGTH (MILES)	HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE "L" BEADS								REMARKS
					4" SOLID YELLOW (LF)	6" SOLID WHITE (LF)	6" INTERMITTENT WHITE (LF)	6" DASHED WHITE (LF)	6" SOLID YELLOW (LF)	6" INTERMITTENT YELLOW (LF)	12" DOTTED WHITE (LF)	12" SOLID WHITE (GORE) (LF)	
32-37	I-70 EB / I-44 WB / RAMPS	24+83.17	99+80.14	1.419		8186.0	9622.0		8493.0			1400.0	I-70 WB / I-44 EB / RAMPS
32-37	I-70 WB / I-44 EB / RAMPS	25+62.79	99+80.14	1.404		9240.0	12178.0		9801.0			3600.0	I-70 EB / I-44 WB / RAMPS
32	I-70 EB / I-44 WB	24+84.55	27+30.55	0.045				246.0					I-70 EB OFF RAMP TO 11TH ST
32-33	I-70 WB / I-44 EB	33+10.00	42+47.00	0.177							937.0		I-70 WB 10TH ST ON RAMP
32-36	I-70 EB / I-44 WB	48+30.43	77+50.00	0.553							2920.0		I-70 EB / I-44 WB
32-36	I-70 EB / I-44 WB	48+30.43	65+00.00	0.316				1670.0					11TH ST RAMP TO 9TH ST RAMP
33-34	I-70 WB / I-44 EB	52+23.00	61+40.03	0.173				917.0					I-70 WB ON RAMP
36	I-44 EB	75+85.00	99+80.14	0.241							2395.0		I-44 EAST BOUND
36	I-44 EB	90+90.00	93+21.40	0.043				231.0					I-44 EB BROADWAY ON RAMP
37	I-44 EB	93+73.34	97+79.34	0.236						405.0			STRIPING FOR EXPRESS LANE
37	BROADWAY RAMP	0+00.00	14+71.87	0.278		2267.0	1214.0		600.0				BROADWAY OFF RAMP
37	N. BROADWAY	17+25.00	24+06.00	0.129		960.0	913.0		609.0		457.0	140.0	N .BROADWAY
37	BIDDLE ST	0+00.00	1+39.90	0.026		556.0							BIDDLE ST
37	BIDDLE ST	0+00.00	1+39.90	0.260	240.0								BIDDLE ST
20,25,26	9TH & McKINLEY / 9TH ST & SALIBURY / 11TH ST & SALIBURY											208.0	(5) 24" STOP BARS
				SUBTOTALS	240.0	21209.0	5981.8	766.0	19503.0	101.3	1677.3	5348.0	
				PAY TOTALS	240	27957			19604		7025		

PERMANENT PAVEMENT MARKING

PLAN SHEET NO.	ROADWAY	BEGIN STATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING								REMARKS
			6" DOTTED WHITE (LF)	24" WHITE STOP BARS (LF)	STRAIGHT & LEFT ARROW (EA)	"ONLY" (EA)	LEFT/RIGHT ARROW (EA)	STRAIGHT ARROW (EA)	LANE DROP MERGE ARROW (EA)	12" WHITE YIELD LINE TRIANGLES (EA)	
32	I-70 WB / RAMPS	7+18.00		48.0							BRANCH ST RAMP/ (2) STOP BARS
32	13TH ST & BRANCH ST	0+67.00		36.0							13TH STREET
32	13TH ST & BRANCH ST	1+23.00								14	13TH STREET
34	I-70 WB / RAMPS	62+00.00							1		I-70 WB ON RAMP
34	I-70 WB / RAMPS	64+00.00							1		I-70 WB ON RAMP
34	I-44 EB	64+10.03		376.0							(20) HASH MARKS IN GORE AREA
34	I-44 WB	65+35.82		97.0							(6) HASH MARKS IN GORE AREA
36	I-44 EB / RAMPS	91+31.00							1		BROADWAY RAMP
36	I-44 EB / RAMPS	92+81.00							1		BROADWAY RAMP
37	N. BROADWAY	19+00.00				1					"ONLY"
37	N. BROADWAY	19+13.00			1		1	2			ARROWS
37	N. BROADWAY	20+25.00		60.0							(5) HASH MARKS
37	N. BROADWAY	21+00.00				1					"ONLY"
37	N. BROADWAY	21+13.00			1		1	2			ARROWS
37	N. BROADWAY	22+23.00				1					"ONLY"
37	N. BROADWAY	22+36.00			1		1	2			ARROWS
37	N. BROADWAY	23+16.00		44.0							STOP BAR
37	N. BROADWAY	23+31.00	73.0								NEW STRIPING
37	N. BROADWAY	23+31.00	73.0								NEW STRIPING
37	BIDDLE ST	0+11.00		24.0							STOP BAR
37	BIDDLE ST	0+25.00					2				ARROWS
37	BIDDLE ST	1+13.00					2				ARROWS
37	BIDDLE ST	1+26.90		24.0							STOP BAR
		SUBTOTALS	36.5	709.0	3	3	7	6	4	14	
		PAY TOTALS	37	709	3	3	7	6	4	14	

INLAID PAVEMENT MARKERS

PLAN SHEET	LOCATION	STATION BEGIN	STATION END	INLAID PAVEMENT MARKERS (EA)	REMARKS
32-37	I-70 WB & I-44 EB	25+62.79	99+80.14	166	
32-37	I-70 EB & I-44 WB	24+83.17	99+80.14	164	
			SUBTOTAL	330	
			PAY TOTAL	330	

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SUMMARY OF QUANTITIES
SHEET 7 OF 8

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/4/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
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)

QUANTITIES

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

REV.

EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	1	16				REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00	1	16				YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00	1	16				ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25	1	6.25				ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	8	128				ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00	2	32				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	4	64				RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	2	32				FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19	4	8.8				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	1	12				GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES
G020-2	48X24	8.00						END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	2	12				WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93	1	6.93				YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	4	48				SPEED LIMIT XX
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						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
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (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	1	2.00				SIDEWALK CLOSED
R9-11L	24X18	3.00	1	3.00				SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00	1	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						POINT OF PRESENCE
CONST-7	48X24	8.00	1	8				RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE
W11-2	36X36	9.00	4	36				PEDESTRIAN CROSSING
W16-7P	30X18	3.75	2	7.5				ARROW
W16-9P	30X18	3.75	2	7.5				AHEAD
R9-10	24X12	2.00	1	2.00				
R9-8	30X18	3.75	1	3.75				

616-10.05 CONSTRUCTION SIGNS	TOTAL 503	
616-10.10 RELOCATED SIGNS		TOTAL ✳✳

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

✳✳ NO DIRECT PAY WILL BE MADE FOR RELOCATING TRAFFIC CONTROL DEVICES.

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	✳ 2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	250	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033	42	DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6169902	✳ 2	NTCIP COMPLIANT CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

✳ THIS ITEM IS NOT INCLUDED IN THE PAY QUANTITY FOR LUMP SUM TRAFFIC CONTROL.

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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS CITY

JOB NO. J6I3424

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

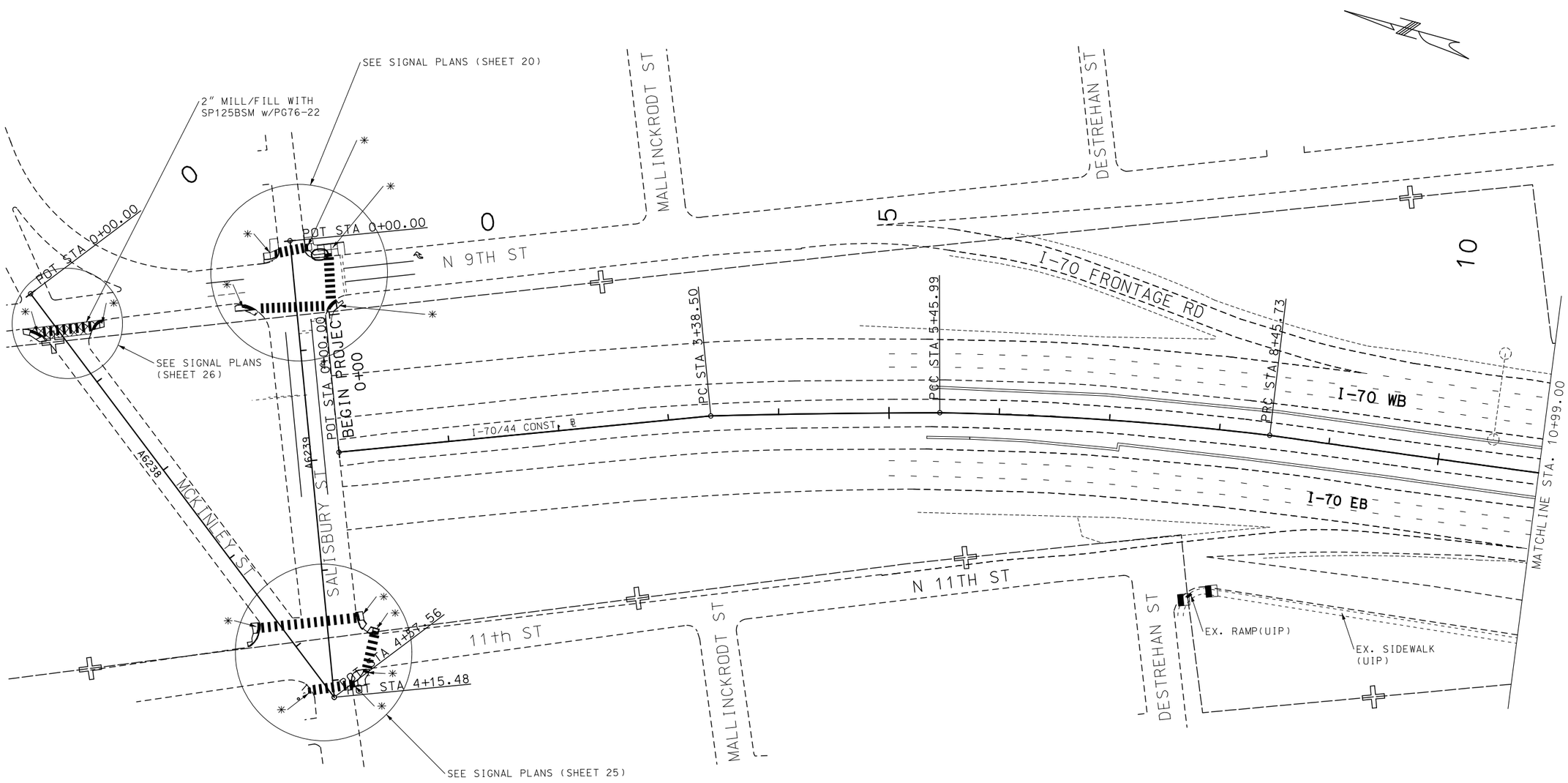
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

SUMMARY SHEET
SHEET 8 OF 8

REV.



THE INTENT ON THIS PROJECT IS TO REMOVE AND REPLACE EXISTING CONCRETE CURB UNDER NEW GUARDRAIL RUNS AND/OR UPSTREAM OF NEW CRASHWORTHY END TERMINALS THAT DOES NOT MEET CURRENT MODOT DESIGN POLICY AS SHOWN IN THE MODOT STANDARD PLANS AND AS DESCRIBED IN SECTION 606.1 OF THE MODOT ENGINEERING POLICY GUIDE. THE QUANTITY OF EXISTING CONCRETE CURB TO BE REMOVED AND REPLACED ON THIS PROJECT WAS BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN AND IS SUBJECT TO VARIATIONS AND ACTUAL SITE CONDITIONS. THE QUANTIY SHOWN IN THE PLANS ALSO INCLUDES TRANSITIONAL SECTIONS THAT MAY NOT ACTUALLY FALL UNDER NEW GUARDRAIL OR UPSTREAM OF NEW CREASHWORTHY END TERMINALS. MODOT SHALL BE RESPONSIBLE TO VERIFY THE HEIGHT OF THE EXISTING CURB AND TO IDENTIFY THE ACTUAL SECTIONS OF ESXISTING CURB THAT DO NOT MEET CURRENT MODOT DESIGN POLICY AND NEEDS TO BE REMOVED AND REPLACED. ALL EXISTING CURB TO BE REMOVED AND REPLACED SHALL BE APPROVED BY THE ENGINEER. THE CONTRATOR WILL BE PAID FOR THE ACTUAL QUANTITY OF CRUB REMOVED AND REPLACED.

GENERAL NOTES:

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

NO DIRECT PAYMENT WILL BE MADE FOR ANY NECESSARY CLEARING AND GRUBBING.

✳ NEW ADA RAMP, PED SIGNAL HEAD & PUSH BUTTON/SIGN

SCALE

0 50 100 150

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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	4
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J6I3424	
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)

PLAN SHEET

REV.

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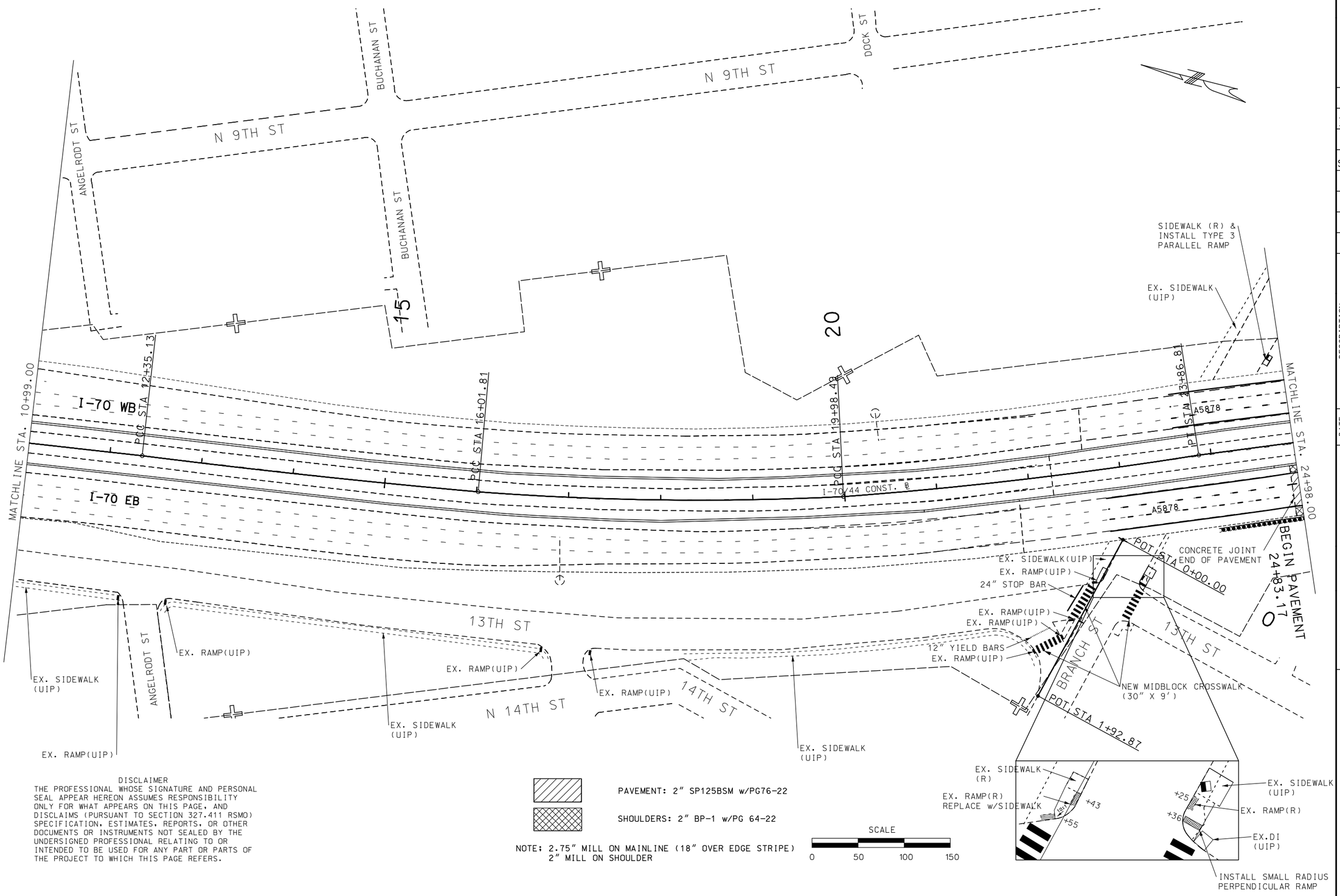

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PAVEMENT: 2" SP125BSM w/PG76-22

SHOULDERS: 2" BP-1 w/PG 64-22

NOTE: 2.75" MILL ON MAINLINE (18" OVER EDGE STRIPE)
2" MILL ON SHOULDER

SCALE
0 50 100 150

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	5
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J6I3424	
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)

PLAN SHEET

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

REV.

DISCLAIMER
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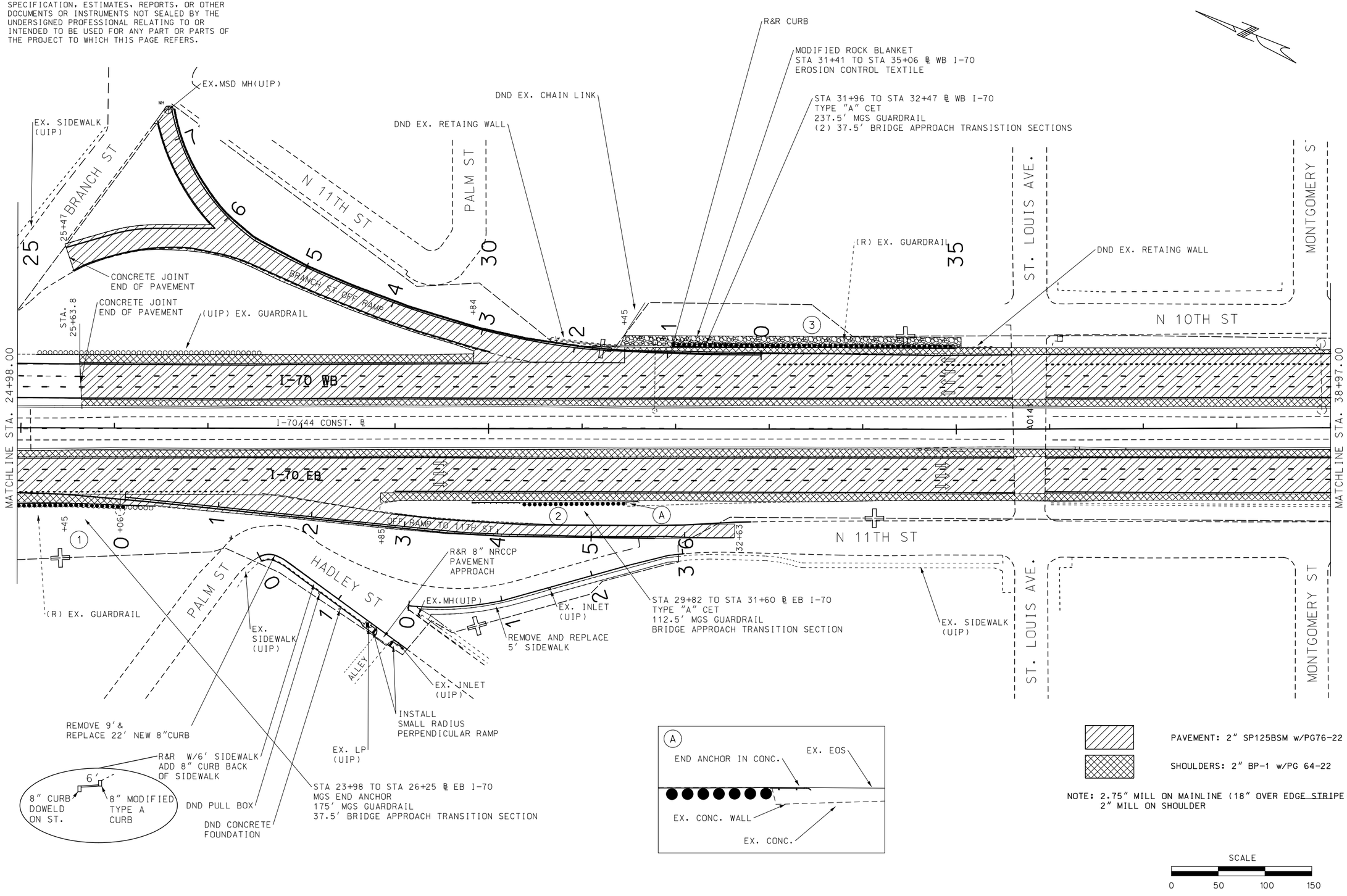

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	6
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
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)

PLAN SHEET

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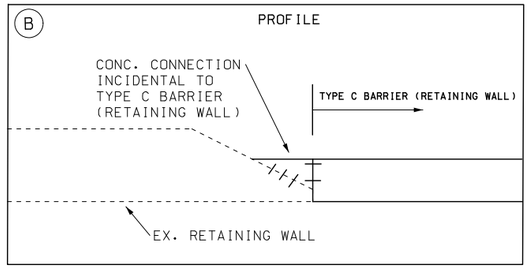
REV.

NOTE: CONC. CONNECTION TO BE TIED TO EX. RETAINING WALL PER DIRECTION OF ENGINEER



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A2 SHOULDER PCCP

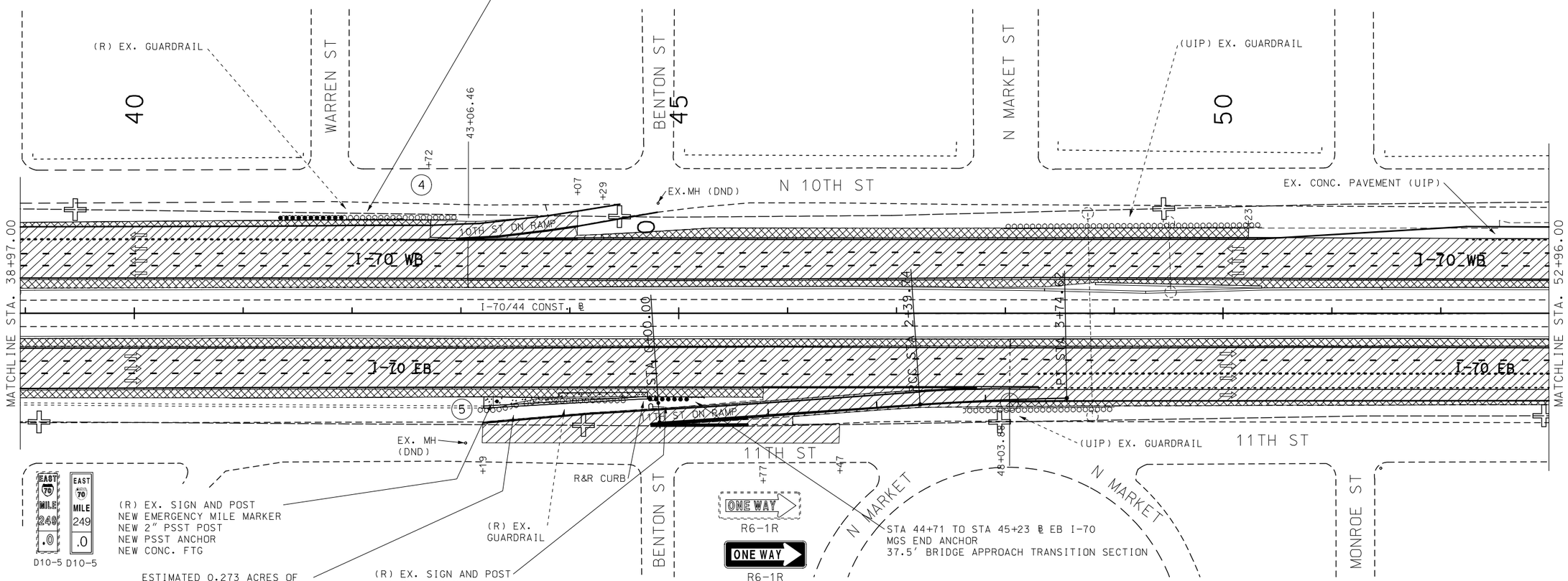
PAVEMENT: 2" SP125BSM w/PG76-22

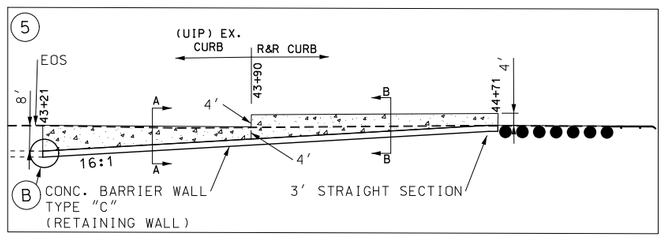
SHOULDERS: 2" BP-1 w/PG 64-22

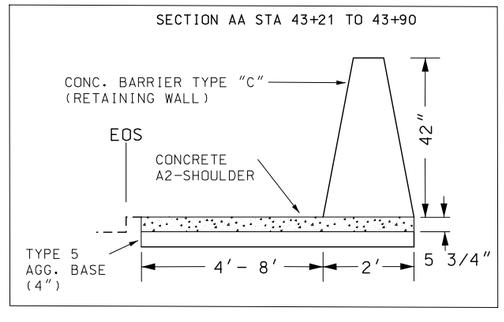
SCALE 0 50 100 150

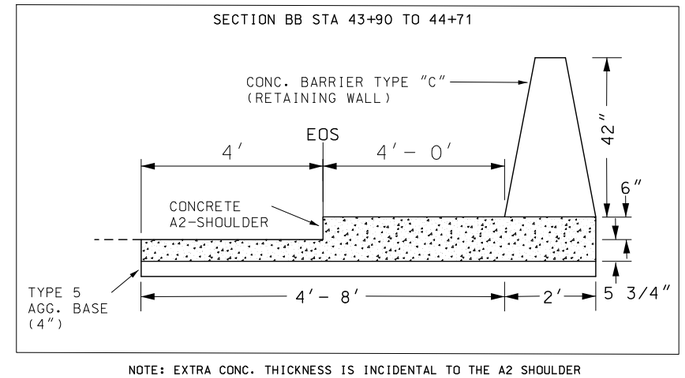
NOTE; 2.75" MILL ON MAINLINE (18" OVER EDGE STRIPE)
2" MILL ON SHOULDER

STA 41+33 TO STA 42+46 ℄ WB I-70
TYPE "A" CET
62.5' MGS GUARDRAIL
37.5' BRIDGE APPROACH TRANSITION SECTION









NOTE: EXTRA CONC. THICKNESS IS INCIDENTAL TO THE A2 SHOULDER

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021	
ROUTE I-70/44	STATE MO
DISTRICT SL	SHEET NO. 7
COUNTY ST. LOUIS CITY	
JOB NO. J6I3424	
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)

PLAN SHEET

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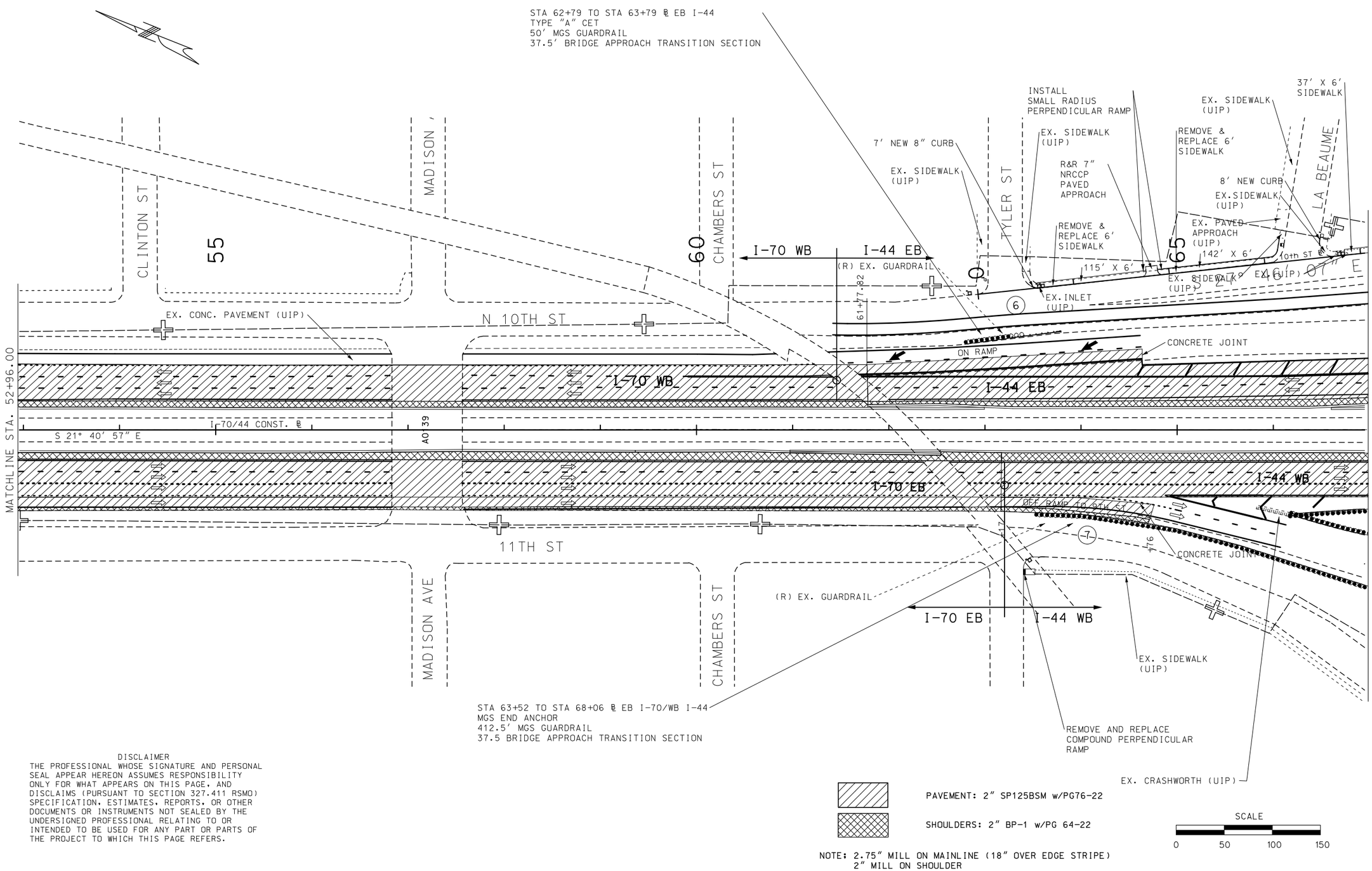

NOTE: 2.75" MILL ON MAINLINE (18" OVER EDGE STRIPE)
2" MILL ON SHOULDER

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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	8
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
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)

PLAN SHEET

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

REV.

STA 68+87 TO STA 71+13 ℄ EB I-44
TYPE "A" CET
175' MGS GUARDRAIL
37.5' BRIDGE APPROACH TRANSITION SECTION

STA 70+11 TO STA 71+97 ℄ EB I-44
TYPE "A" CET
137.5' MGS GUARDRAIL
37.5' VERTICAL TRANSITION SECTION

STA 75+15 TO STA 78+41 ℄ EB I-44
TYPE "A" CET
137.5' MGS GUARDRAIL
BRIDGE APPROACH TRANSITION SECTION

9TH ST
BROOKLYN S
HOWARD
EX.RAMP(UIP)
EX.SIDEWALK (UIP)
EX.SIDEWALK (UIP)
6' SIDEWALK
(R) EX. GUARDRAIL
I-44 EB
OFF RAMP TO 10TH ST
EX.CONCRETE RAMP (UIP)
(R) EX. GUARDRAIL
R&R CURB
(R) EX. GUARDRAIL
A6430
67+20
72+76
74+70.66
75+78
79+
MATCHLINE STA. 66+95.00
MATCHLINE STA. 80+94.00
I-44 EB
I-70/44 CONST. ℄
A6417
A6418
A6423
I-44 WB
BROADWAY OFF RAMP
I-70 EB
+91
STA. 75+65.33
2+76
9TH ST
N 11TH ST
(R) EX. GUARDRAIL
STA 66+16 TO STA 68+92 ℄ WB I-44
262.5' MGS GUARDRAIL
37.5' BRIDGE APPROACH TRANSITION SECTION
STA 66+16 TO STA 68+84 ℄ WB I-44
262.5' MGS GUARDRAIL
37.5' VERTICAL TRANSITION SECTION

PAVEMENT: 2" SP125BSM w/PG76-22

SHOULDERS: 2" BP-1 w/PG 64-22

NOTE; 2.75" MILL ON MAINLINE (18" OVER EDGE STRIPE)
2" MILL ON SHOULDER

SCALE
0 50 100 150

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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	9

COUNTY: ST. LOUIS CITY
JOB NO.: J6I3424
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)

PLAN SHEET

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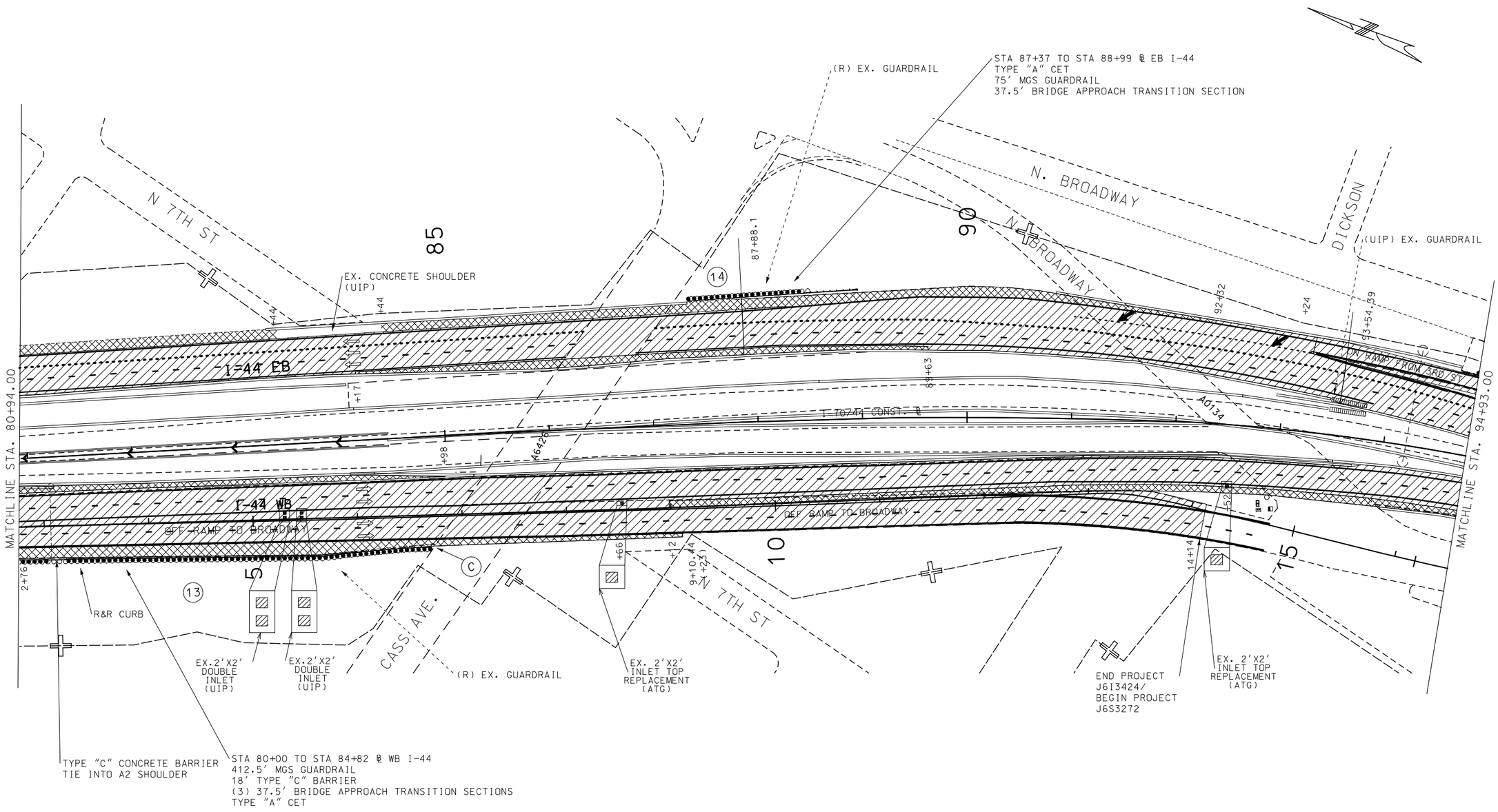

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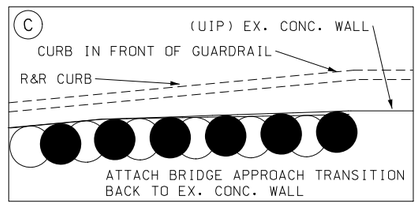

PAVEMENT: 2" SP125BSM w/PG76-22

SHOULDERS: 2" BP-1 w/PG 64-22

NOTE: 2.75" MILL ON MAINLINE (18" OVER EDGE STRIPE)
2" MILL ON SHOULDER

SCALE
0 50 100 150

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	10
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J6I3424	
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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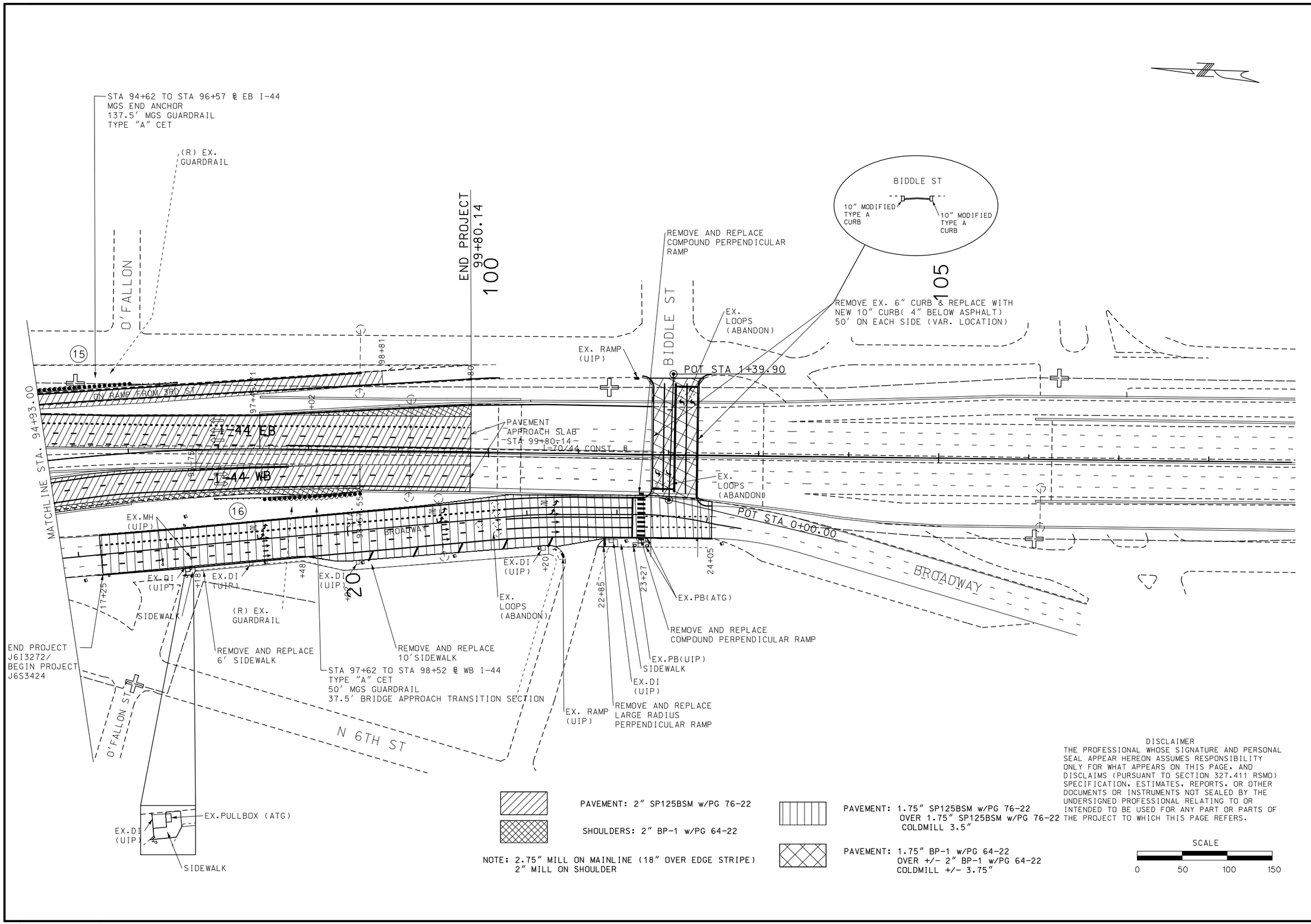

PAVEMENT: 2" SP125BSM w/PG 76-22

SHOULDERS: 2" BP-1 w/PG 64-22

NOTE: 2.75" MILL ON MAINLINE (18" OVER EDGE STRIPE)
2" MILL ON SHOULDER

PAVEMENT: 1.75" SP125BSM w/PG 76-22
OVER 1.75" SP125BSM w/PG 76-22
COLDMILL 3.5"

PAVEMENT: 1.75" BP-1 w/PG 64-22
OVER +/- 2" BP-1 w/PG 64-22
COLDMILL +/- 3.75"

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SCALE
0 50 100 150

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED
8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS CITY

JOB NO.
J6I3424

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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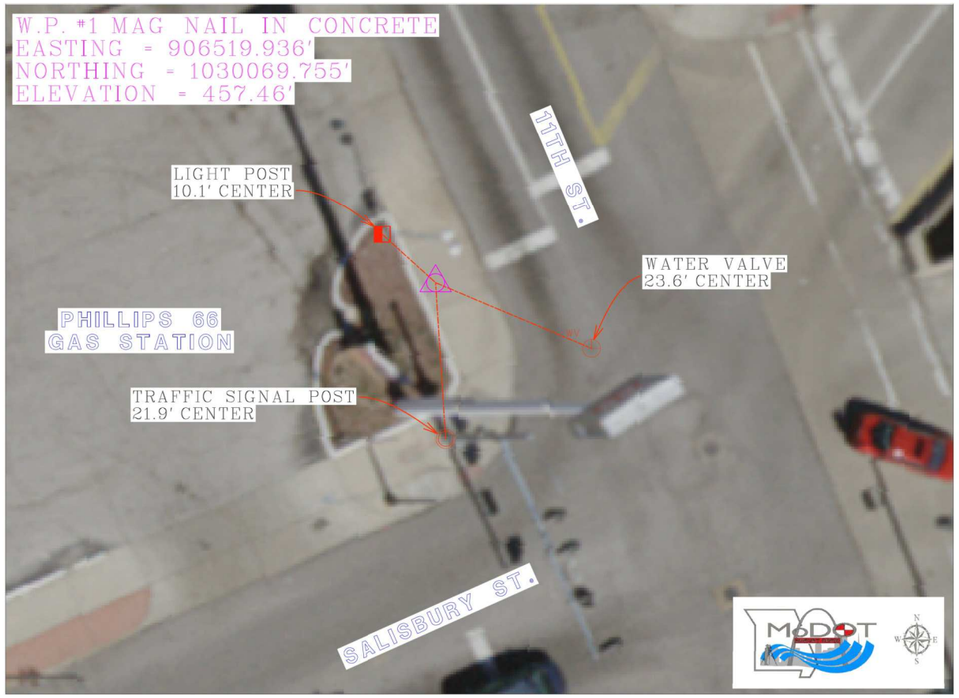

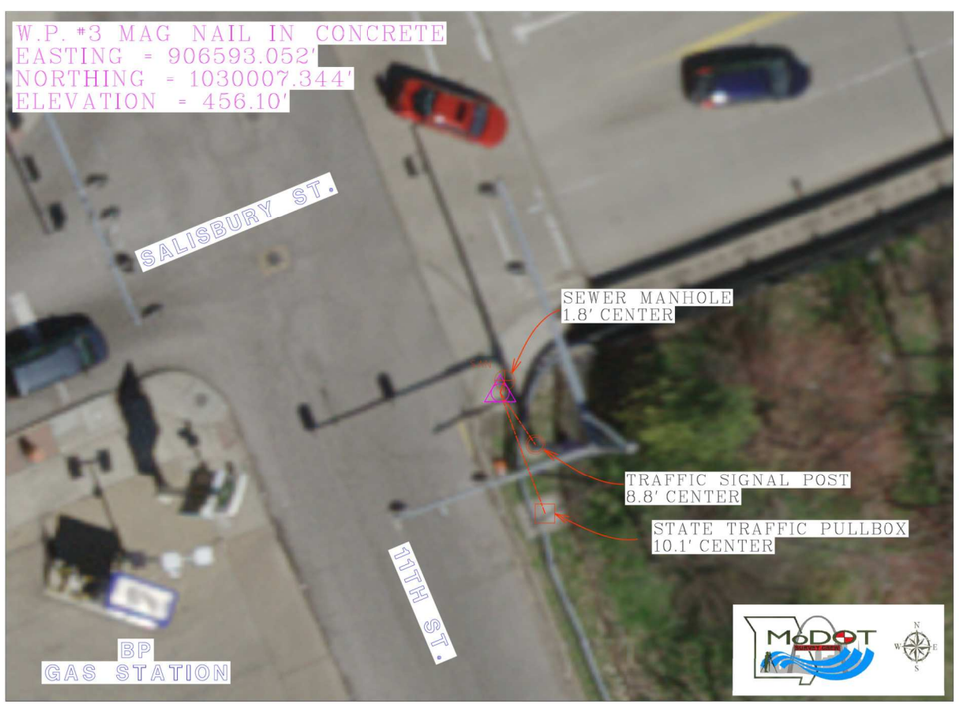

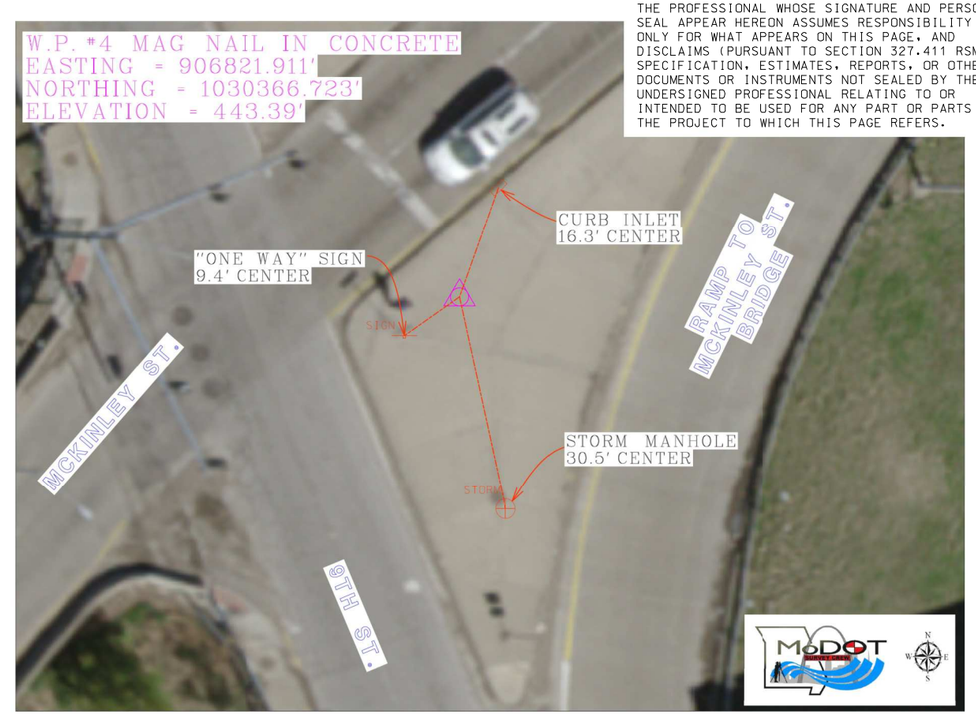

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NOTE: COORDINATES FOR SURVEY REFERENCE POINTS ARE MODIFIED STATE PLANE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	12
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

REFERENCE POINTS

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 (GROUND)
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010.0
VERTICAL DATUM	NAVD 1988; GNSS DERIVED
GEOID MODEL	GEOID 18(Conus)
ELEVATIONS DETERMINED BY	GNSS
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MISSOURI COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BELLEFONT CORS ARP
CORS_ID	MOBF
PID	DN6075
LATITUDE	38°45'51.51915"N
LONGITUDE	090°14'47.69248"W
NORTHING (M)	325298.422
EASTING (M)	272023.946
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999122

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

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

EXAMPLE: CONTROL POINT # 1
N 1030069.755 X 0.9999122 = N 1029979.315
E 906519.936 X 0.9999122 = E 906440.343

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

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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	GPK POINT ID
ALIGNMENTS								
4	00+00.00	I-70	0	1,030,076.04	906,740.37		BOP - RT_70_CENT	
4	3+38.50	I-70	0	1,029,760.06	906,861.87		PC - RT_70_CENT	
4	4+42.25	I-70	0	1,029,660.81	906,892.10		PI - RT_70_CENT	
4	5+45.99	I-70	0	1,029,560.85	906,919.96		PT/PC - RT_70_CENT	
4	6+96.00	I-70	0	1,029,415.60	906,957.49		PI - RT_70_CENT	
4	8+45.73	I-70	0	1,029,267.27	906,979.90		PT/PC - RT_70_CENT	
4	10+40.43	I-70	0	1,029,074.15	907,004.79		PI - RT_70_CENT	
5	12+35.13	I-70	0	1,028,881.25	907,031.31		PT/PC - RT_70_CENT	
5	14+18.49	I-70	0	1,028,699.21	907,053.41		PI - RT_70_CENT	
5	16+01.81	I-70	0	1,028,518.13	907,082.33		PT/PC - RT_70_CENT	
5	18+00.41	I-70	0	1,028,322.40	907,116.04		PI - RT_70_CENT	
5	19+98.49	I-70	0	1,028,132.42	910,196.78		PT/PC - RT_70_CENT	
5	21+92.76	I-70	0	1,027,948.03	907,235.23		PI - RT_70_CENT	
5	23+86.81	I-70	0	1,027,769.45	907,311.78		PT - RT_70_CENT	
5	34+97.82	I-70	0	102,655.09	907,720.40		POINT - RT_70_CENT	
5	38+92.02	I-70	0	1,026,370.49	907,867.57		POINT - RT_70_CENT	
9	68+63.04	I-44	0	1,023,609.43	908,965.35		POINT - RT_70_CENT	
9	74+21.42	I-44	0	1,023,092.12	909,175.67		POINT - RT_70_CENT	
9	78+71.89	I-44	0	1,022,677.27	909,351.34		POINT - RT_70_CENT	
10	83+71.79	I-44	0	1,022,217.07	909,546.69		POINT - RT_70_CENT	
10	85+65.57	I-44	0	1,022,038.55	909,622.10		POINT - RT_70_CENT	
10	87+83.74	I-44	0	1,021,836.81	909,705.21		POINT - RT_70_CENT	
10	89+28.11	I-44	0	1,021,702.49	909,758.16		PC - RT_70_CENT	
10	90+73.76	I-44	0	1,021,566.07	909,809.21		PI - RT_70_CENT	
10	92+19.34	I-44	0	1,021,427.19	909,853.15		PT/PC - RT_70_CENT	
11	95+29.08	I-44	0	1,021,129.97	909,940.43		PI - RT_70_CENT	
11	98+34.31	I-44	0	1,020,820.21	909,937.32		EOP - RT_70_CENT	
4	00+00	MCKINLEY	0	1,030,383.65	906,804.30		BOP - MCKNLEY	
4	0+22.24	MCKINLEY	0	1,030,366.02	906,790.73		POINT - MCKNLEY	
4	4+57.56	MCKINLEY	0	1,030,021.02	906,525.20		EOP - MCKNLEY	
4	00+00	SALISBURY	0	1,030,169.87	906,913.14		BOP - SALSI	
4	4+20.49	SALISBURY	0	1,030,019.23	906,520.52		EOP - SALSI	
5	00+00	BRANCH	0	1,027,826.95	907,202.59		BOP - BRANCH	
5	1+92.87	BRANCH	0	1,027,874.99	907,015.78		EOP - BRANCH	
6	00+00	BRA. RAMP	0	1,026,957.48	907,718.06		BOP/PC - R1	
6	0+93.18	BRA. RAMP	0	1,027,044.12	907,683.74		PI - R1	
6	1+86.29	BRA. RAMP	0	1,027,132.82	907,655.16		PT/PC - R1	
6	2+43.61	BRA. RAMP	0	1,027,188.13	907,640.11		PI - R1	
6	3+00.75	BRA. RAMP	0	1,027,245.00	907,632.88		PT/PC - R1	
6	3+65.94	BRA. RAMP	0	1,027,309.65	907,624.46		PI - R1	
6	4+30.93	BRA. RAMP	0	1,027,371.49	908,604.02		PT/PC - R1	
6	4+96.99	BRA. RAMP	0	1,027,440.87	907,622.56		PI - R1	
6	5+62.70	BRA. RAMP	0	1,027,506.24	907,632.07		PT/PC - R1	
6	6+00.87	BRA. RAMP	0	1,027,543.27	907,641.36		PI - R1	
6	6+38.29	BRA. RAMP	0	1,027,574.98	907,845.63		PT/PC - R1	
6	6+85.91	BRA. RAMP	0	1,027,614.31	907,689.46		PI - R1	
6	7+32.25	BRA. RAMP	0	1,027,640.11	907,729.49		PT/EOP - R1	
6	00+00	HADLEY	0	1,027,376.39	907,319.63		BOP/PC - HADLEY	
6	0+08.93	HADLEY	0	1,027,370.48	907,326.33		PI - HADLEY	
6	0+17.02	HADLEY	0	1,027,361.59	907,327.19		PT/PC - HADLEY	
6	0+22.06	HADLEY	0	1,027,356.55	907,327.15		PI - HADLEY	
6	0+27.08	HADLEY	0	1,027,351.55	907,326.57		PT - HADLEY	
6	1+90.75	HADLEY	0	1,027,193.00	907,285.87		EOP - HADLEY	
6	00+00	HAD./11TH	0	1,027,208.51	907,329.70		BOP/PC - HADLEY11TH	
6	0+52.29	HAD./11TH	0	1,027,158.27	907,344.19		PI - HADLEY11TH	
6	1+03.70	HAD./11TH	0	1,027,115.03	907,329.70		PT - HADLEY11TH	
6	2+42.28	HAD./11TH	0	1,027,004.81	907,457.62		POINT - - HADLEY11TH	
6	2+84.46	HAD./11TH	0	1,026,970.49	907,482.15		POINT - HADLEY11TH	
6	3+01.40	HAD./11TH	0	1,026,955.58	907,490.21		EOP - HADLEY11TH	

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 13
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

COORDINATE POINTS
SHEET 1 OF 2

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 (GROUND)
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010.0
VERTICAL DATUM	NAVD 1988; GNSS DERIVED
GEOID MODEL	GEOID 18(Conus)
ELEVATIONS DETERMINED BY	GNSS
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MISSOURI COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BELLEFONT CORS ARP
CORS_ID	MOBF
PID	DN6075
LATITUDE	38°45'51.51915"N
LONGITUDE	090°14'47.69248"W
NORTHING (M)	325298.422
EASTING (M)	272023.946
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999122

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

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

EXAMPLE: CONTROL POINT # 1
N 1030069.755 X 0.9999122 = N 1029979.315
E 906519.936 X 0.9999122 = E 906440.343

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	GPK POINT ID
ALIGNMENTS								
6	00+00	11TH OFF	0	1,027,533.02	907,325.75		BOP/PC - PRBL6	
6	1+09.01	11TH OFF	0	1,027,428.09	907,355.36		PI - PRBL6	
6	2+18.03	11TH OFF	0	1,027,323.05	907,384.54		PT/PC - PRBL6	
6	2+90.23	11TH OFF	0	1,027,253.48	907,403.90		PI - PRBL6	
6	3+62.44	11TH OFF	0	1,027,184.08	907,423.86		PT/PC - PRBL6	
6	4+08.46	11TH OFF	0	1,027,140.49	907,438.64		PI - PRBL6	
6	4+54.47	11TH OFF	0	1,027,097.51	907,455.12		PT/PC - PRBL6	
6	5+17.40	11THOFF	0	1,027,038.16	907,476.06		PI - PRBL6	
6	5+80.30	11TH OFF	0	1,026,980.09	907,500.30		PT/PC - PRBL6	
6	6+16.59	11TH OFF	0	1,026,945.71	907,511.95		PI - PRBL6	
6	6+52.86	11TH OFF	0	1,026,912.18	907,525.85		EOB/PT - PRBL6	
7	00+00	11TH ON	0	1,025,784.63	907,992.61		BOP/PC - PRBL10	
7	1+19.87	11TH ON	0	1,025,676.64	908,044.65		PI - PRBL10	
7	2+39.74	11TH ON	0	1,025,568.50	908,096.38		PT/PC - PRBL10	
7	3+07.20	11TH ON	0	1,025,507.67	908,125.56		PI - PRBL10	
7	3+74.62	11TH ON	0	1,025,445.41	908,151.55		EOP/PT - PRBL10	
8	00+00	10TH ST	0	1,024,191.42	908,885.77		BOP - 10THST	
8	6+22.32	10TH ST	0	1,023,640.72	909,175.74		EOP - 10THST	
11	00+00	BIDDLE	0	1,020,452.50	909,895.19		BOP - PRBL22	
11	1+39.90	BIDDLE	0	1,020,452.17	910,035.10		EOP - PRBR22	
9	0+00.00	BROAD.	0	1,022,710.09	909,276.73		BOP - BROADWAY	
10	5+69.70	BROAD.	0	1,022,178.69	909,482.22		POINT - BROADWAY	
10	9+12.63	BROAD.	0	1,021,859.89	909,608.68		POINT - BROADWAY	
10	10+18.11	BROAD.	0	1,021,761.90	909,647.75		POINT - BROADWAY	
10	13+15.63	BROAD.	0	1,021,486.24	909,759.74		PC - BROADWAY	
10	13+29.40	BROAD.	0	1,021,473.20	909,764.15		PI - BROADWAY	
10	13+43.15	BROAD.	0	1,021,459.85	909,767.49		PT/PC - BROADWAY	
10	13+77.55	BROAD.	0	1,021,426.04	910,043.92		PI - BROADWAY	
10	14+11.89	BROAD.	0	1,021,391.74	909,776.69		PT - BROADWAY	
10	14+77.40	BROAD.	0	1,021,326.71	909,784.64		POINT - BROADWAY	
10	15+87.36	BROAD.	0	1,021,217.32	909,795.82		POINT - BROADWAY	
10	16+33.46	BROAD.	0	1,021,171.52	909,801.14		POINT - BROADWAY	
11	18+85.49	BROAD.	0	1,020,921.61	909,833.99		POINT - BROADWAY	
11	21+14.47	BROAD.	0	1,020,694.38	909,862.33		POINT - BROADWAY	
11	21+83.68	BROAD.	0	1,020,625.69	909,870.94		POINT - BROADWAY	
11	21+84.62	BROAD.	0	1,020,624.76	909,871.06		PC - BROADWAY	
11	22+08.60	BROAD.	0	1,020,600.96	909,874.04		PI - BROADWAY	
11	22+32.55	BROAD.	0	1,020,576.99	909,874.73		PT - BROADWAY	
11	22+54.18	BROAD.	0	1,020,555.37	909,875.35		POINT - BROADWAY	
11	23+32.97	BROAD.	0	1,020,476.62	909,878.02		PC - BROADWAY	
11	23+71.52	BROAD.	0	1,020,438.07	909,877.39		PI - BROADWAY	
11	24+09.85	BROAD.	0	1,020,400.27	909,869.83		PT - BROADWAY	
11	24+39.12	BROAD.	0	1,020,371.25	909,865.99		EOP - BROADWAY	

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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 13A
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
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)

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

COORDINATE POINTS
SHEET 2 OF 2

DISCLAIMER
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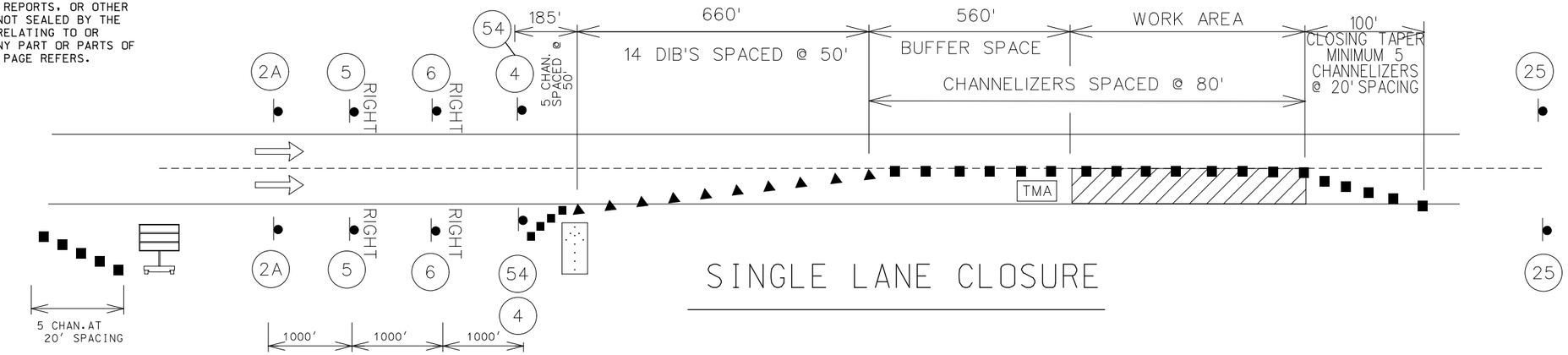
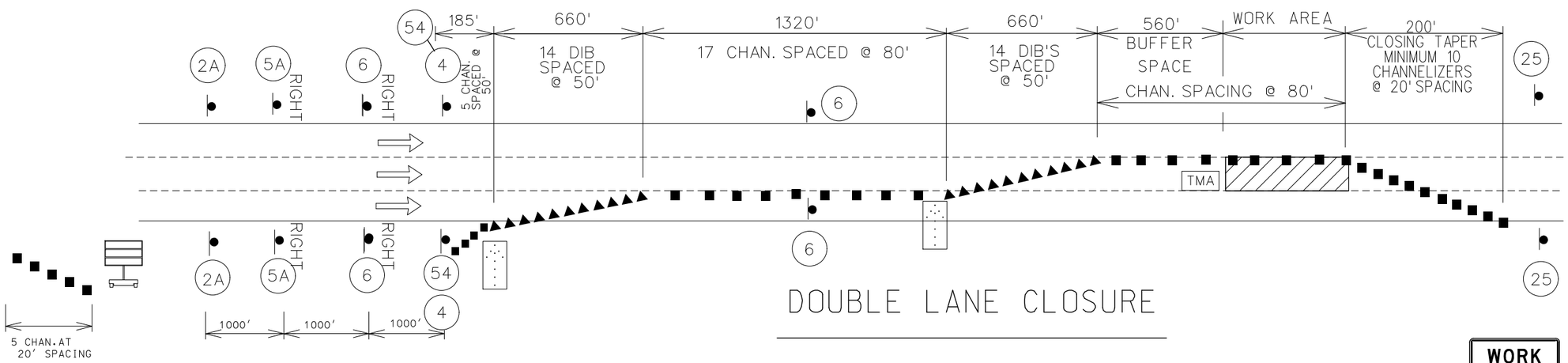
TRAFFIC CONTROL PLAN



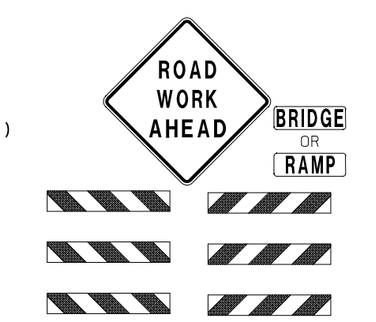
SINGLE LANE CLOSURE



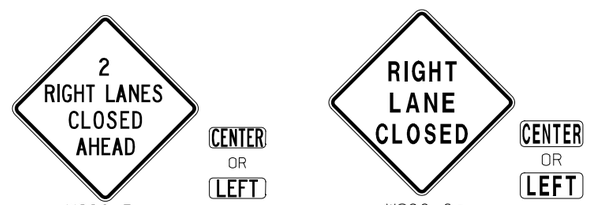
DOUBLE LANE CLOSURE

TRAFFIC CONTROL LEGEND

- SIGN
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- TMA — TRUCK MOUNTED ATTENUATOR W/ FLASHING ARROW
- FLASHING ARROW PANEL (6)
- NTCIP CHANGEABLE MESSAGE SIGN
- WORK AREA

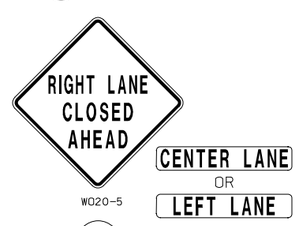


W020-1
2A



W020-5a
5A

W020-6a
6



W020-5
5

(NORMAL SPEED)
R2-1
25

G020-5aP
54

R2-1
4
(REDUCED SPEED)

NOTES:
NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

CMS LOCATION TO BE DETERMINED BY ENGINEER

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	14
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
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)

TRAFFIC CONTROL PLAN
SINGLE AND DOUBLE LANE CLOSURES

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

REV.

TRAFFIC CONTROL PLAN

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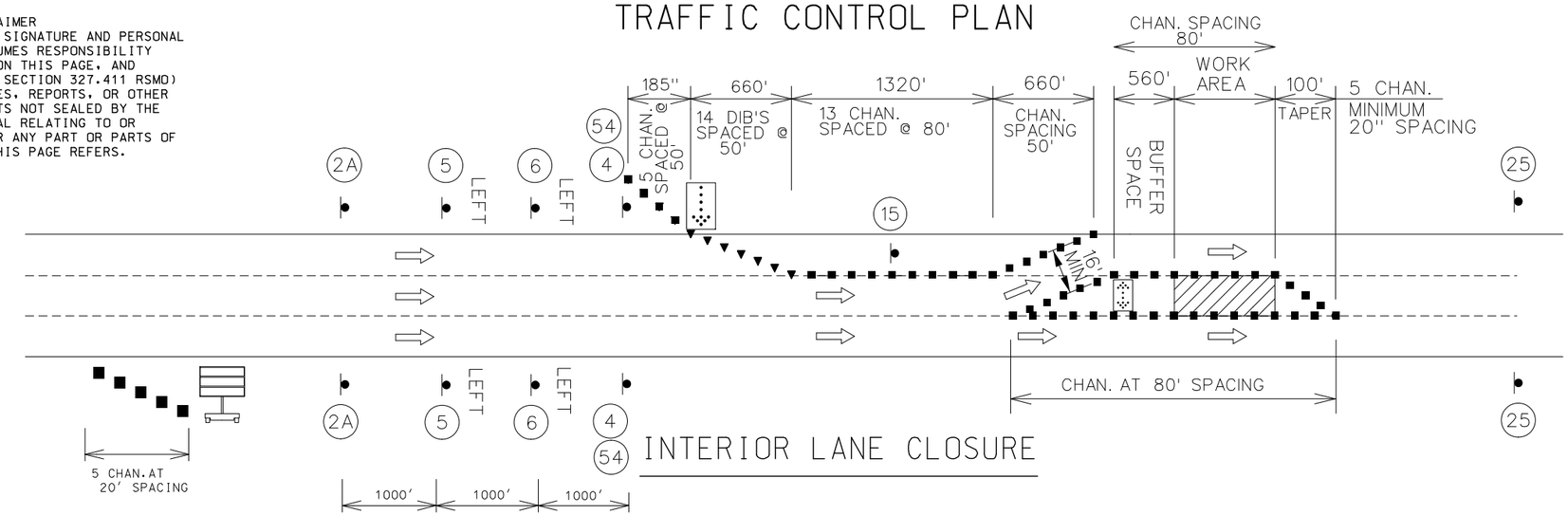
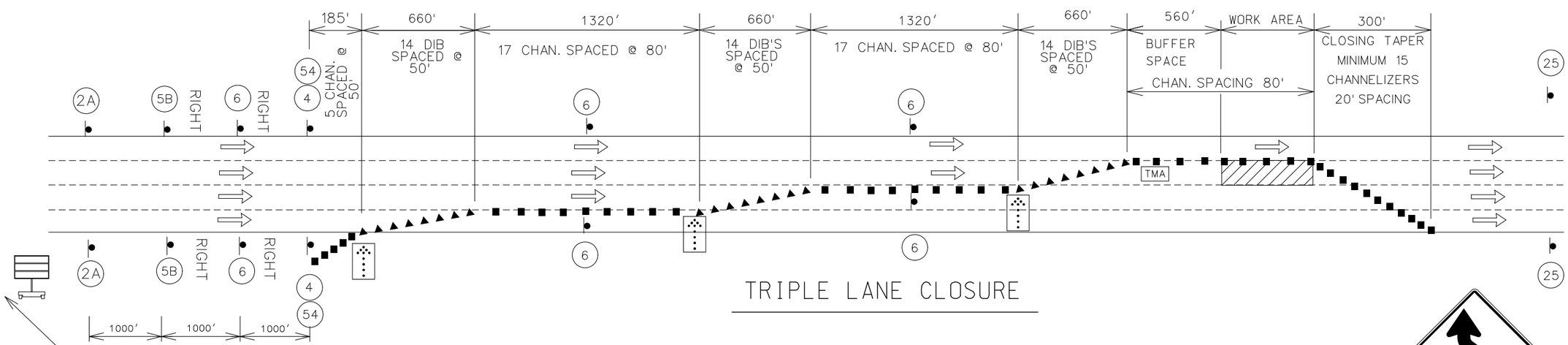
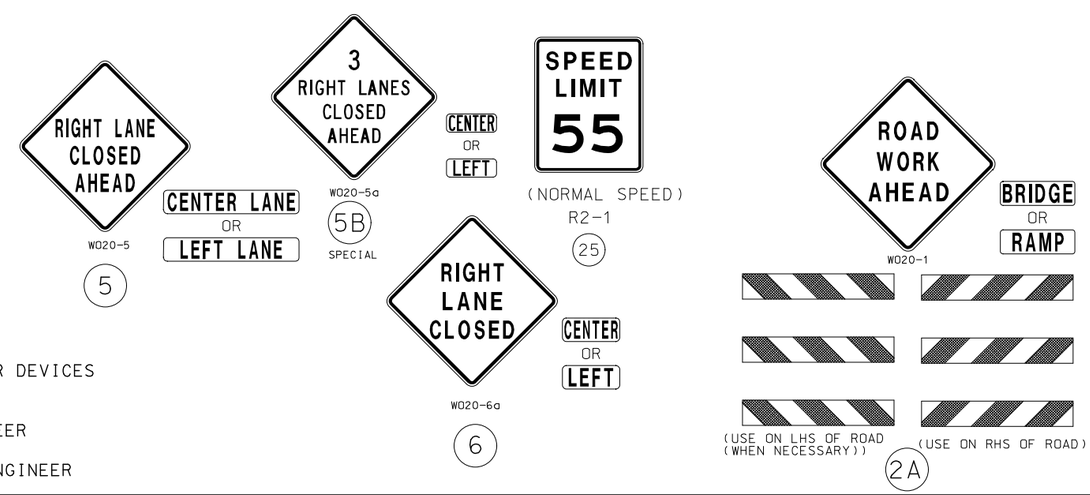


INTERIOR LANE CLOSURE



TRIPLE LANE CLOSURE



TRAFFIC CONTROL LEGEND

- SIGN
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- FLASHING ARROW PANEL (6)
- NTCIP CHANGEABLE MESSAGE SIGN
- WORK AREA

NOTES:
NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

CMS LOCATION TO BE DETERMINED BY ENGINEER

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	15
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

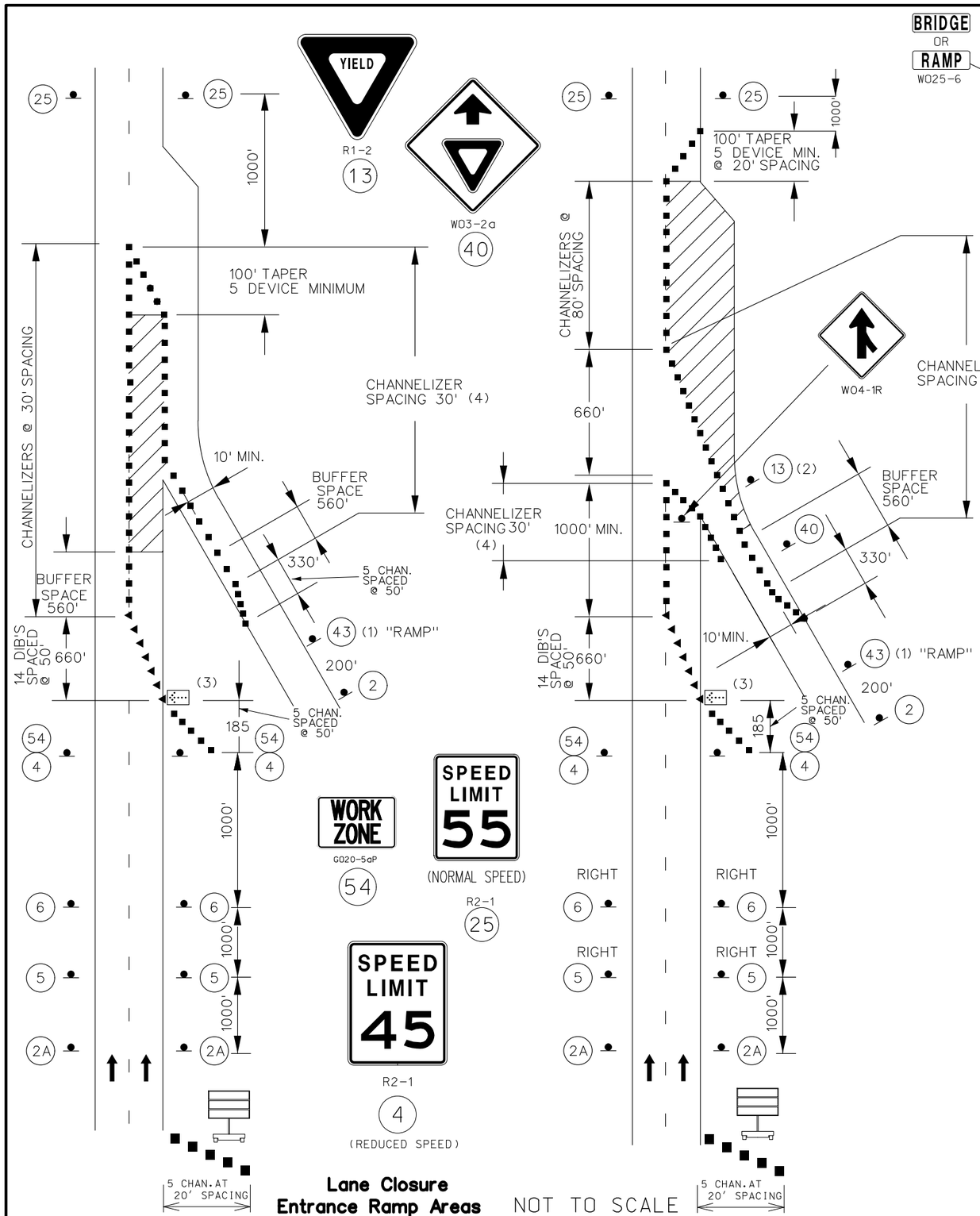
DATE

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

TRAFFIC CONTROL PLAN
INTERIOR AND TRIPLE LANE CLOSURES

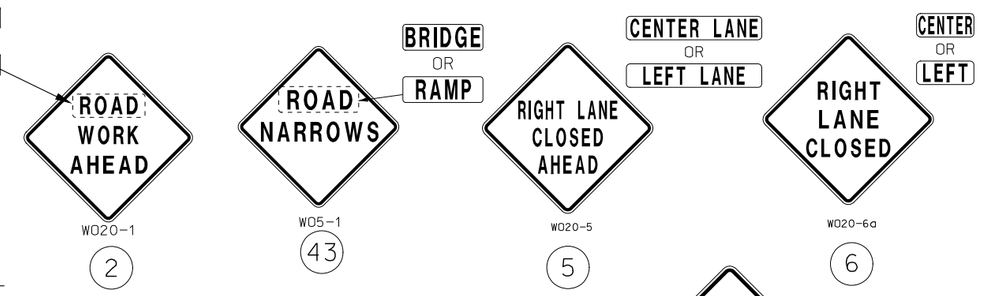
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



Lane Closure
Entrance Ramp Areas

NOT TO SCALE



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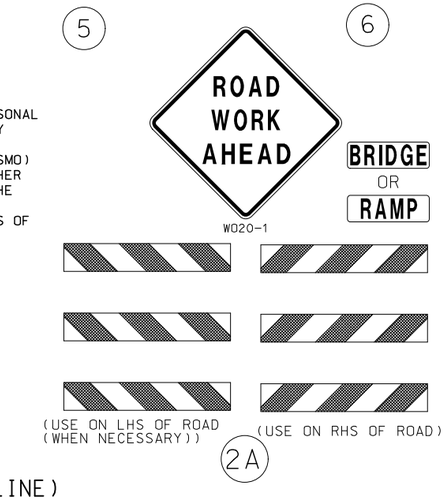


TRAFFIC CONTROL LEGEND

- SIGN
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- FLASHING ARROW PANEL (6)
- NTCIP CHANGEABLE MESSAGE SIGN
- WORK AREA

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR RAMPS WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

CMS LOCATION TO BE DETERMINED BY ENGINEER

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) SIGN (13) SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

(3) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

(4) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	16
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J6I3424	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

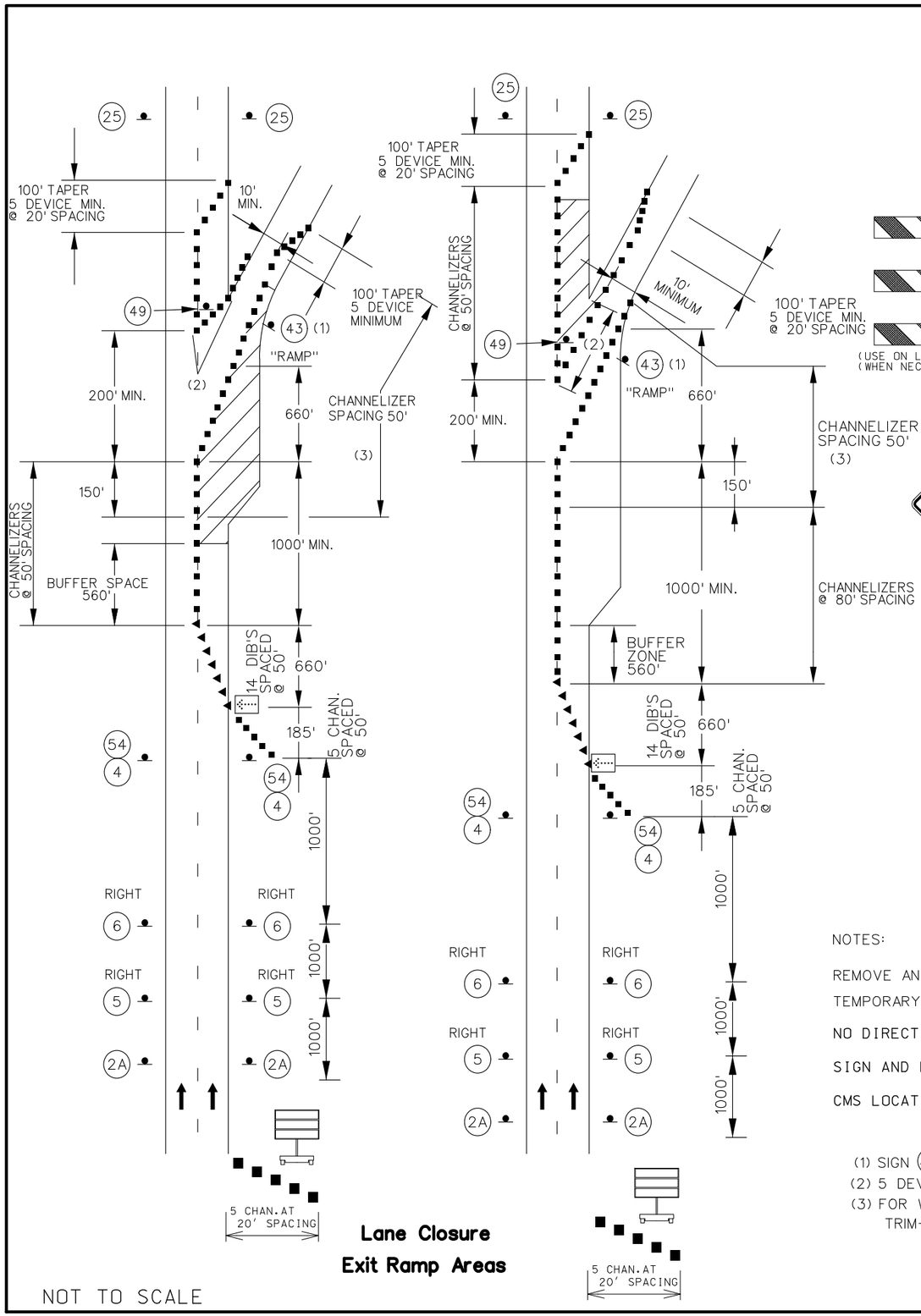
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

TRAFFIC CONTROL PLAN

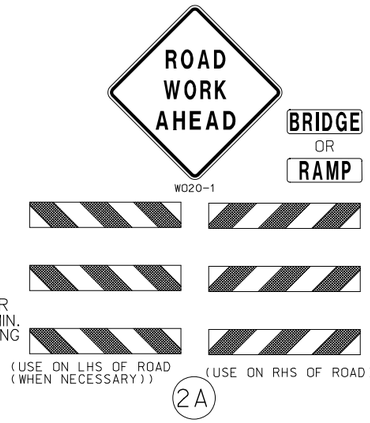
LANE CLOSURE NEAR ENTRANCE RAMP

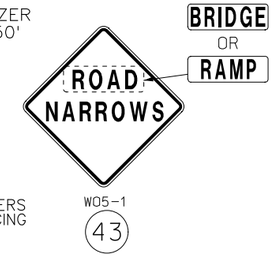
REV.

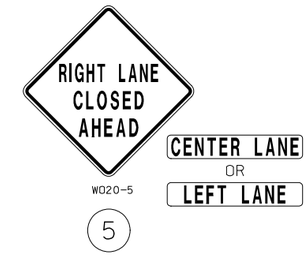


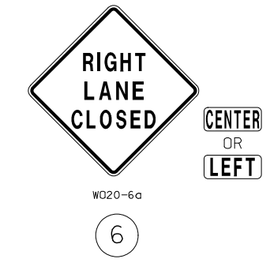
Lane Closure
Exit Ramp Areas

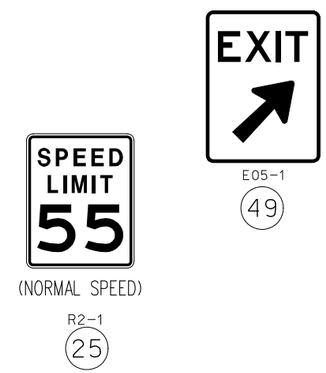
NOT TO SCALE











TRAFFIC CONTROL LEGEND

- SIGN
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- FLASHING ARROW PANEL (6)
- NTCIP CHANGEABLE MESSAGE SIGN
- WORK AREA

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

CMS LOCATIONS TO BE DETERMINED BY ENGINEER

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.
(2) 5 DEVICE MINIMUM.
(3) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

DISCLAIMER
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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/3/2021
ROUTE: I-70/44 | STATE: MO
DISTRICT: SL | SHEET NO.: 17
COUNTY: ST. LOUIS CITY
JOB NO.: J6I3424
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

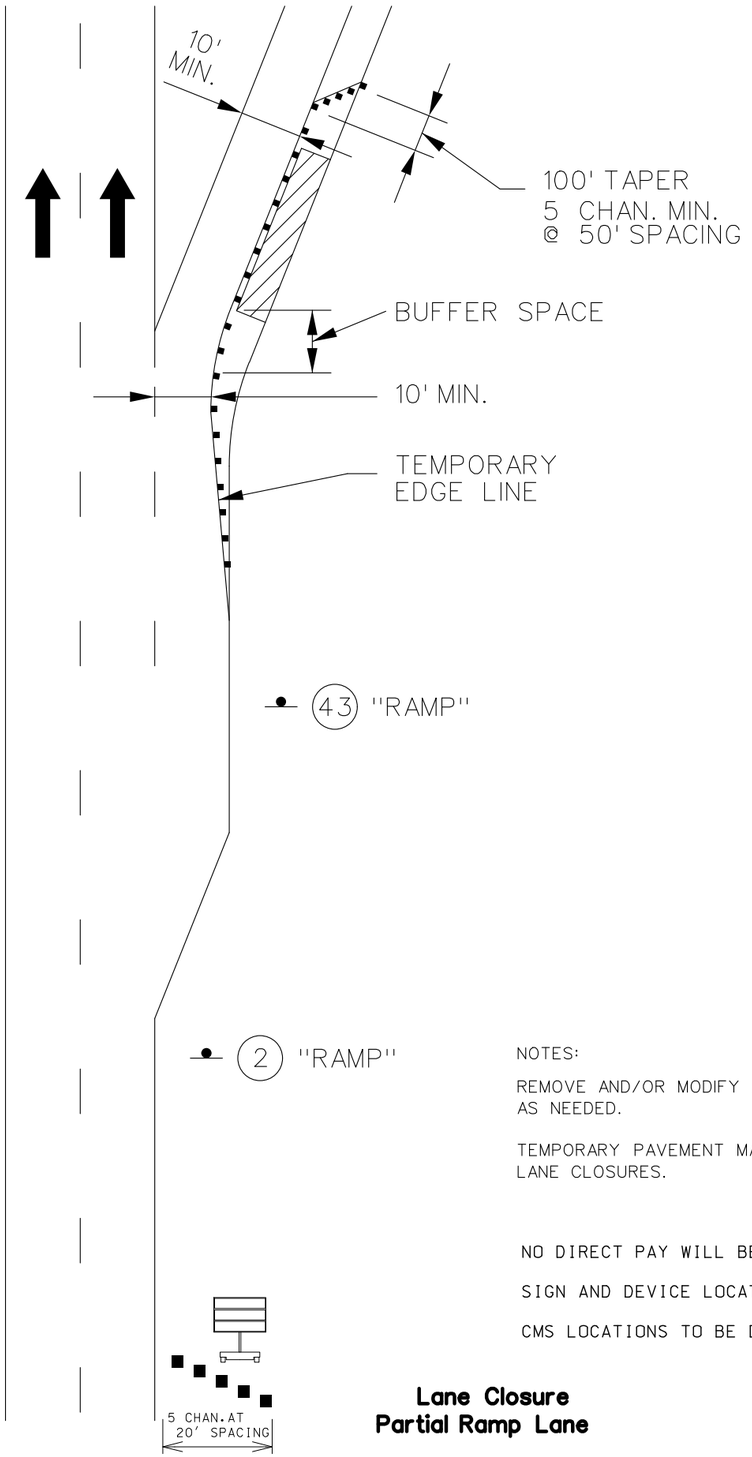
DATE	DESCRIPTION

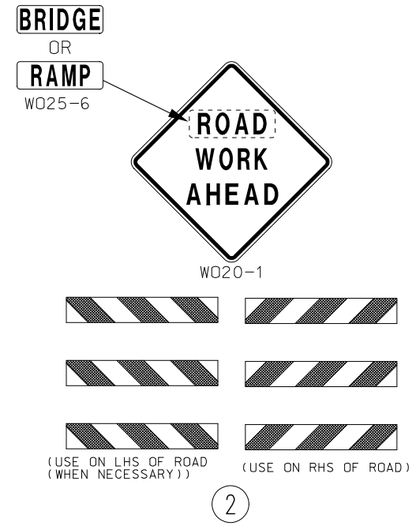
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

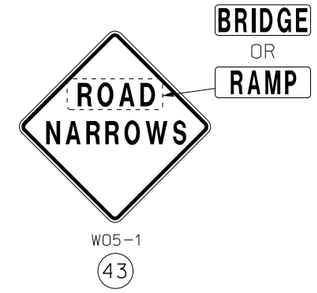
TRAFFIC CONTROL PLAN
LANE CLOSURE NEAR EXIT RAMP

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

REV.







NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

CMS LOCATIONS TO BE DETERMINED BY ENGINEER

Lane Closure
Partial Ramp Lane

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN
- CHANNELIZER (TRIM-LINE)
- NTCIP CHANGEABLE MESSAGE SIGN
- WORK AREA

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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	18

COUNTY: ST. LOUIS CITY
JOB NO.: J6I3424
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)

TRAFFIC CONTROL PLAN
PARTIAL RAMP LANE CLOSURE

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

REV.

NOTES:

SEE EPG.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

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

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

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

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

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

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

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

CMS LOCATIONS TO BE DETERMINED BY ENGINEER

DISCLAIMER

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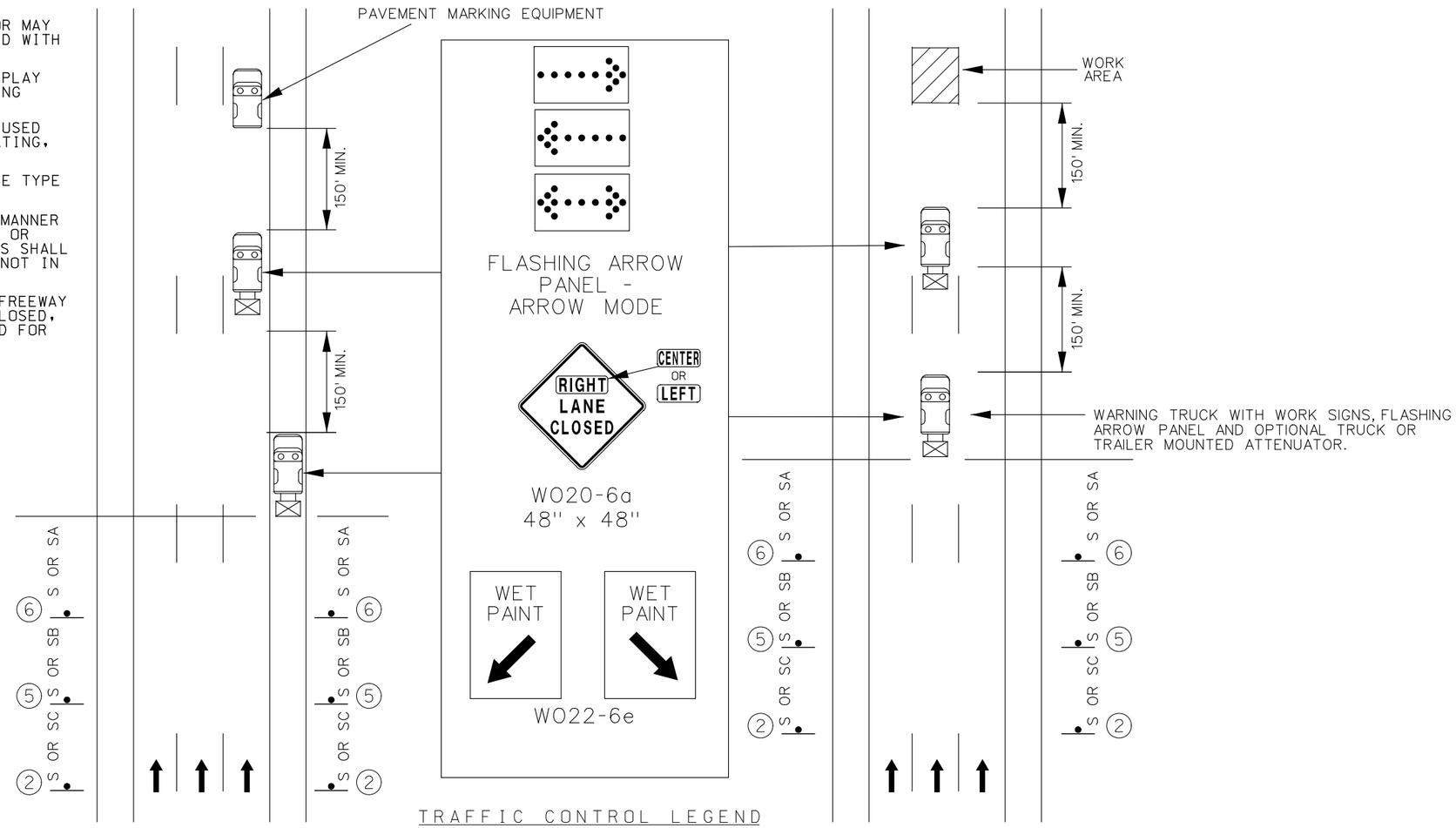
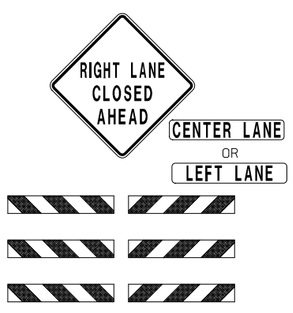


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CONE
- CHANNELIZER
- BARRICADE
- NTCIP CHANGEABLE MESSAGE BOARD



W020-5
5

W020-6a
6

W020-1
2

NOT TO SCALE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35		200					
40-45		500					
50-55		1000					
60-70	SA - 1000, SB - 1500, and SC - 2640						

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/3/2021	
ROUTE: I-70/44	STATE: MO
DISTRICT: SL	SHEET NO.: 19
COUNTY: ST. LOUIS CITY	
JOB NO.: J6I3424	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

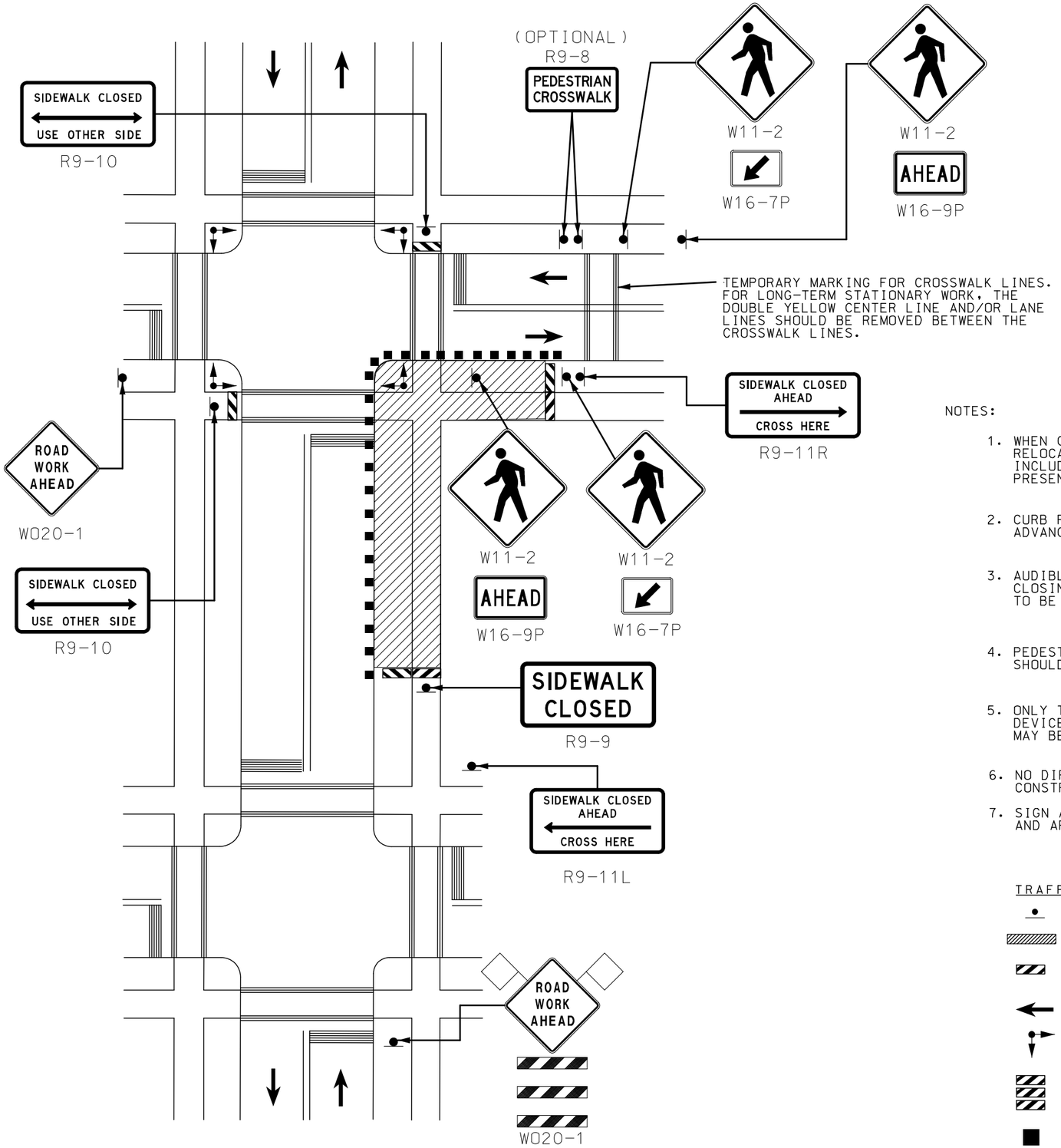
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLAN

MOBILE OPERATION ON DIVIDED OR MULTI-LANE HIGHWAYS

REV.



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NOTES:

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

2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MIDBLOCK CROSSWALK.

3. AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.

4. PEDESTRIAN TRAFFIC SIGNALS DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED.

5. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.

6. NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES

7. SIGN AND DEVICE LOCATION WILL BE VERIFIED AND APPROVED BY THE ENGINEER

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC OR PEDESTRIAN SIGNAL
- ADVANCED WARNING RAILS
- CHANNELIZER (TRIM-LINE)

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021	
ROUTE I-70/44	STATE MO
DISTRICT SL	SHEET NO. 19A
COUNTY ST. LOUIS CITY	
JOB NO. J6I3424	
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)

TRAFFIC CONTROL PLAN

CROSSWALK CLOSURES AND PEDESTRIAN DETOURS

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

REV.

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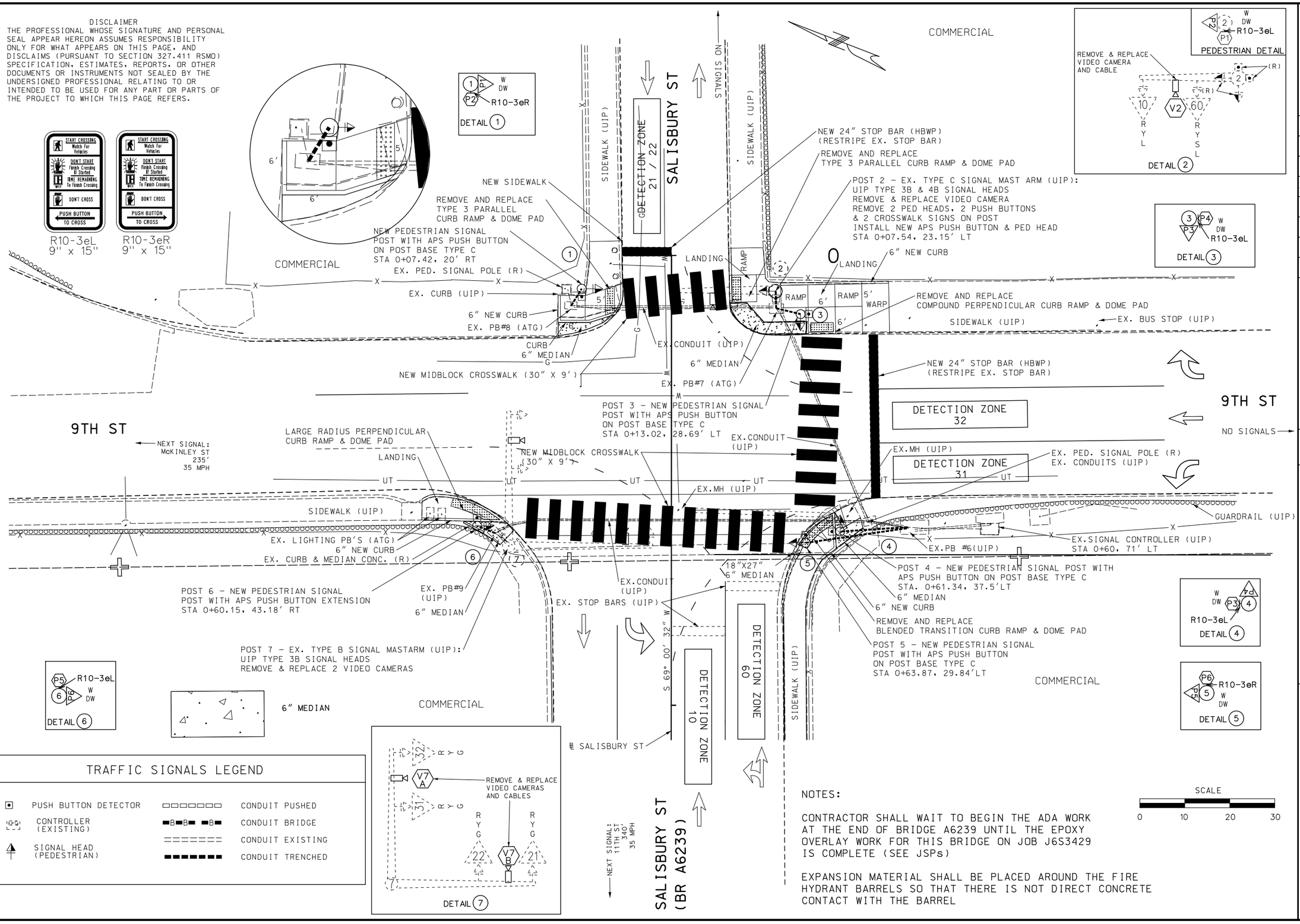

TRAFFIC SIGNALS LEGEND

⊡	PUSH BUTTON DETECTOR	▭▭▭▭▭▭	CONDUIT PUSHED
[P5]	CONTROLLER (EXISTING)	▬B▬B▬ ▬B▬	CONDUIT BRIDGE
▲	SIGNAL HEAD (PEDESTRIAN)	═══	CONDUIT EXISTING
		▬▬▬▬▬▬	CONDUIT TRENCHED

NOTES:

CONTRACTOR SHALL WAIT TO BEGIN THE ADA WORK AT THE END OF BRIDGE A6239 UNTIL THE EPOXY OVERLAY WORK FOR THIS BRIDGE ON JOB J6S3429 IS COMPLETE (SEE JSPs)

EXPANSION MATERIAL SHALL BE PLACED AROUND THE FIRE HYDRANT BARRELS SO THAT THERE IS NOT DIRECT CONCRETE CONTACT WITH THE BARREL

STATE OF MISSOURI
AARON JOHN GROFF
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DATE PREPARED	
8/3/2021	
ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	20
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J6I3424	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

ADA & SIGNAL PLAN SHEET
SALISBURY ST & 9TH ST

REV.

EFFECTIVE: 07/01/2018

LOCATION / BASE / PULL BOX

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	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.)	PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	DRAIN TYPE* I	II A	II B	II C
1		SALISBURY	0+07.42	20' RT													1	0.44											
2		SALISBURY	0+07.54	23.15' LT														UIP											
3		SALISBURY	0+13.02	28.69' LT													1	0.44											
4		SALISBURY	0+61.34	37.5' LT													1	0.44											
5		SALISBURY	0+63.87	29.84' LT													1	0.44											
6		SALISBURY	0+60.15	43.18' RT													1	0.44											
7		SALISBURY	0+64.6	36.1' RT														UIP											
																	SUBTOTALS	2.2											
																	INTERSECTION TOTALS	2.2											

POST

POST NUMBER	TOP MOUNT POST 8 FT.	15 FT.	TYPE C & CL ARM LENGTH 22	A	A	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL ARM LENGTH 30	32	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.	PUSH BUTTON EXT. EA
1	1																																											
2			UIP																																									
3	1																																											
4	1																																											
5	1																																											
6	1																																											1
7															UIP																													
SUBTOTALS	5																																											1
INTERSECTION TOTALS	5																																											1

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	INDICATIONS * 12" LENS CONVENTIONAL R	Y	YL	YR†	FYL	FYR	G	S	L	R†	(PED SYMBOL)	12" LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12" LENS	PED.	LOUVERS * A	B	C	D	E	F	BACKPLATE* LENSES 1	2	3	4	5	RETROREFLECTIVE BACKPLATE* LENSES 1	2	3	4	5	BRACKET* TYPE I	II	III
	1	P1												1												1																		1		
	2	P2												1												1																		1		
	3	P3												1												1																		1		
	4	P4												1												1																		1		
	5	P5												1												1																		1		
	6	P6												1												1																		1		
SUBTOTAL																																														
INTERSECTION TOTAL																																														

FACE NUMBER	ONE-FACE SECTION 1- T	1- S	1- C	1- B	3- T	3- S	3- C	3- B	4- T	4- S	4- C	4- B	5- T	5- S	5- C	5- B	TWO-FACE SECTIONS 11- T	11- S	11- B	33- T	33- S	33- C	33- B	34- S	34- B	35- S	35- B	44- S	44- B	45- S	45- B
P1		1																													
P2		1																													
P3		1																													
P4		1																													
P5		1																													
P6		1																													
SUBTOTALS OPTICALLY LIMITED																															
SUBTOTALS CONVENTIONAL																															
SUBTOTALS COUNTDOWN PEDESTRIAN		6																													
INTERSECTION TOTALS OPTICALLY LIMITED																															
INTERSECTION TOTALS CONVENTIONAL																															
INTERSECTION TOTALS COUNTDOWN PEDESTRIAN		6																													

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

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

DISCLAIMER

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SALISBURY ST & 9TH ST

INTERSECTION

LEGEND

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

D-37A

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE I-70/44	STATE MO
DISTRICT SL	SHEET NO. 21
COUNTY ST. LOUIS CITY	
JOB NO. J6I3424	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

SIGNAL SHEET
SALISBURY ST & 9TH ST
D-37A

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

REV.

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EFFECTIVE: 10-01-2015

CONDUIT

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DETECT	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	UPS															UIP EXIST
UPS	CA															UIP EXIST
CA	PB6															UIP EXIST
PB6	P4	15			16											
PB6	P5	23			24											
PB6	PB9															UIP EXIST
PB9	P6	5			6											
PB6	PB7															UIP EXIST
PB7	P3	6			7											
PB7	P2	4			5											
PB7	PB8															UIP EXIST
PB8	P1	5			6											
SUBTOTALS			0	0	64	0	0	0	0	0	0	0	0	0	0	
INTERSECTION TOTALS			0	0	64	0	0	0	0	0	0	0	0	0	0	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				LIGHTING		DETECTOR		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	12c-#12	CONTROL 2c-#12	POLE & BRACKET 1c-#10	VIDEO		24 FIBER SINGLEMODE	
SOURCE	UPS													UIP EXISTING
UPS	EX. CA													UIP EXISTING
EX. CA	HP5	42				66								
EX. CA	DP6	42			65									
EX. CA	HP4	34				58								
EX. CA	DP3	34			57									
EX. CA	HP6	115				145								
EX. CA	DP5	115			144									
EX. CA	HP2	83				113								
EX. CA	DP1	83			112									
EX. CA	HP3	85				115								
EX. CA	DP4	85			114									
EX. CA	HP1	128				164								
EX. CA	DP2	128			163									
EX. CA	V7A	114									(183)			
EX. CA	V7B	114									(186)			
EX. CA	V2	83									(142)			
SUBTOTALS			0	0	655	661	0	0	0	0	(511)	0	0	
INTERSECTION TOTALS			0	0	690	690	0	0	0	0	(540)✳	0	0	INCLUDE 5% FOR SNAKING

✳ SEE D37-C

INTERSECTION SALISBURY ST & 9TH ST

D-37B

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	22

COUNTY ST. LOUIS CITY

JOB NO. J6I3424

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

SIGNAL SHEET
SALISBURY ST & 9TH ST
D-37B

REV.

EFFECTIVE 04-01-2018

POWER SUPPLY (UIP)

LOCATION			POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
				CONTROLLER		POWER SUPPLY DISCONNECT					
						MAIN BREAKER					
APPROACH	STATION	OFFSET		AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
SALISBURY	3+51	321' LT	UIP	15 Amps	· Amps	Amps	Amps		Amps	Cl. Ft.	
				15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT (UIP)

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
SALISBURY	0+60	71'LT										UIP										

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

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

NEMA LOAD SWITCH ASSIGNMENTS

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	DETECTOR ZONE	TYPE				
			AUDIBLE PED SIGNAL PUSH BUTTON	INDUCTION LOOP (2)			VIDEO (3)
				STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
P1	NB PED-EAST SIDE OF 9TH ST		1				
P2	SB PED-EAST SIDE OF 9TH ST		1				
P3	EB PED-SOUTH SIDE OF 9TH ST		1				
P4	WB PED-SOUTH SIDE OF 9TH ST		1				
P5	SB PED-WEST SIDE OF 9TH ST		1				
P6	NB PED-WEST SIDE OF 9TH ST		1				
V2	EB SALISBURY LEFT	10					1 CAMERA
	EB SALISBURY (THRU/LEFT)	60					
V7A	NB 9TH ST LEFT	31					1 CAMERA
	NB 9TH ST	32					
V7B	WB SALISBURY	21 / 22					1 CAMERA
INTERSECTION TOTALS			6				SEE BELOW

✳ 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.

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		
2	R10-3eR	9 X 15	0.9	1.8	2
4	R10-3eL	9 X 15	0.9	3.6	4
			SUBTOTALS	5.4	6
		INTERSECTION TOTALS		✳✳	✳✳

✳✳ PEDESTRIAN SIGNS INCLUDED IN PAY ITEM FOR AUDIBLE PEDESTRIAN PUSHBUTTON

VIDEO DETECTION

CONTROLLER LOCATION			CAMERAS (each)	CABLE (lf)	MONITOR, SOFTWARE, & ACCESSORIES (Lump Sum)	VIDEO DETECTION SYSTEM (each)
APPROACH	STATION	OFFSET				
SALISBURY	0+60.00	71'LT	3	540	1	1
					INTERSECTION TOTAL	1

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SALISBURY ST & 9TH ST
INTERSECTION

D-37C

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 23
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
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)

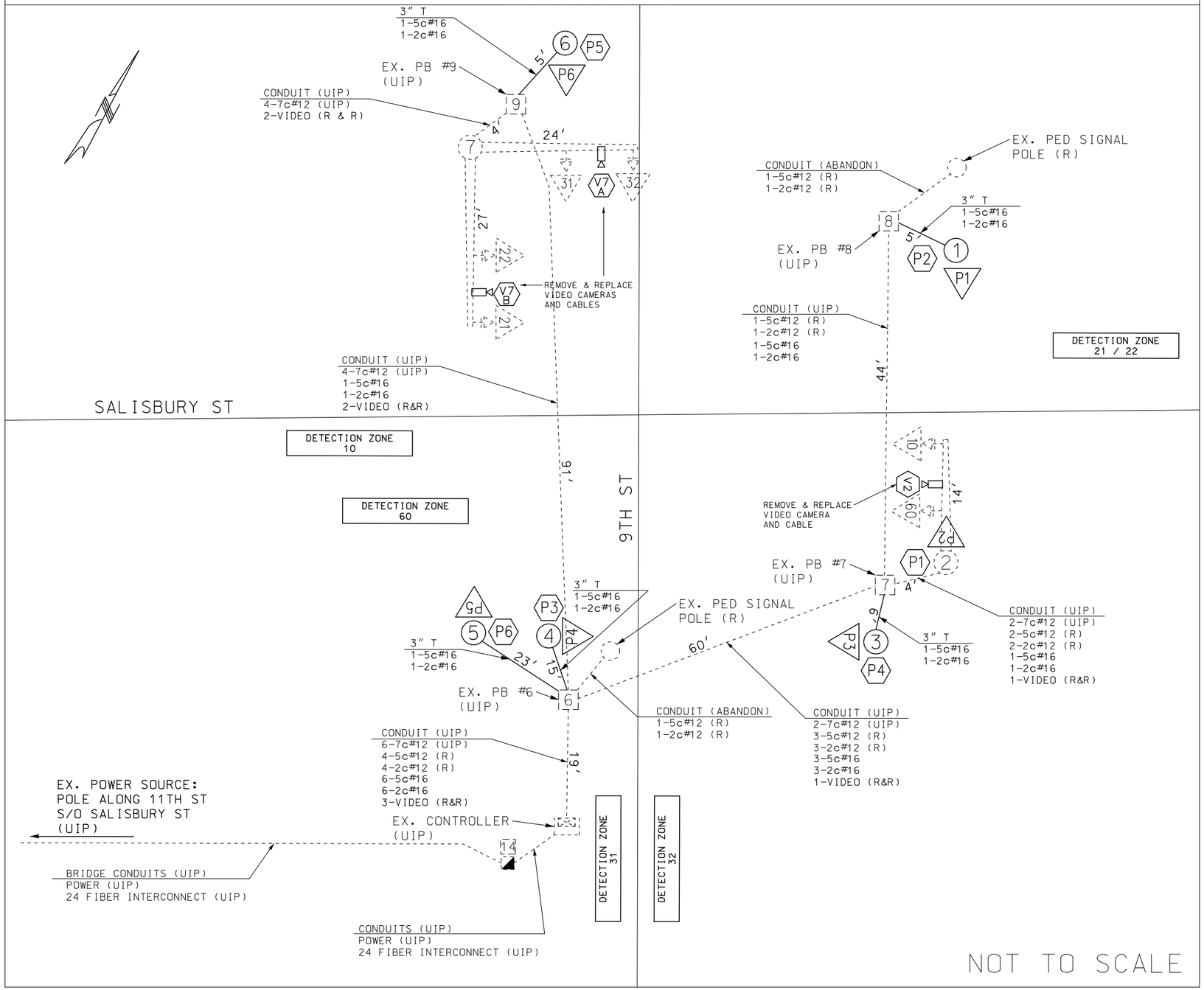
SIGNAL SHEET
SALISBURY ST & 9TH ST
D-37C

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

REV.

EFFECTIVE 12-01-17

WIRING DIAGRAM



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LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	CONTROLLER (EX.)
	CCTV CAMERA
	VIDEO DETECTOR
	MAST ARM - TYPE A BASE
	MAST ARM - TYPE C BASE
	MAST ARM - TYPE F BASE
(R&R)	REMOVE EXISTING & REPLACE WITH NEW

SALISBURY ST & 9TH ST

INTERSECTION

D-37D

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	24
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J6I3424	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

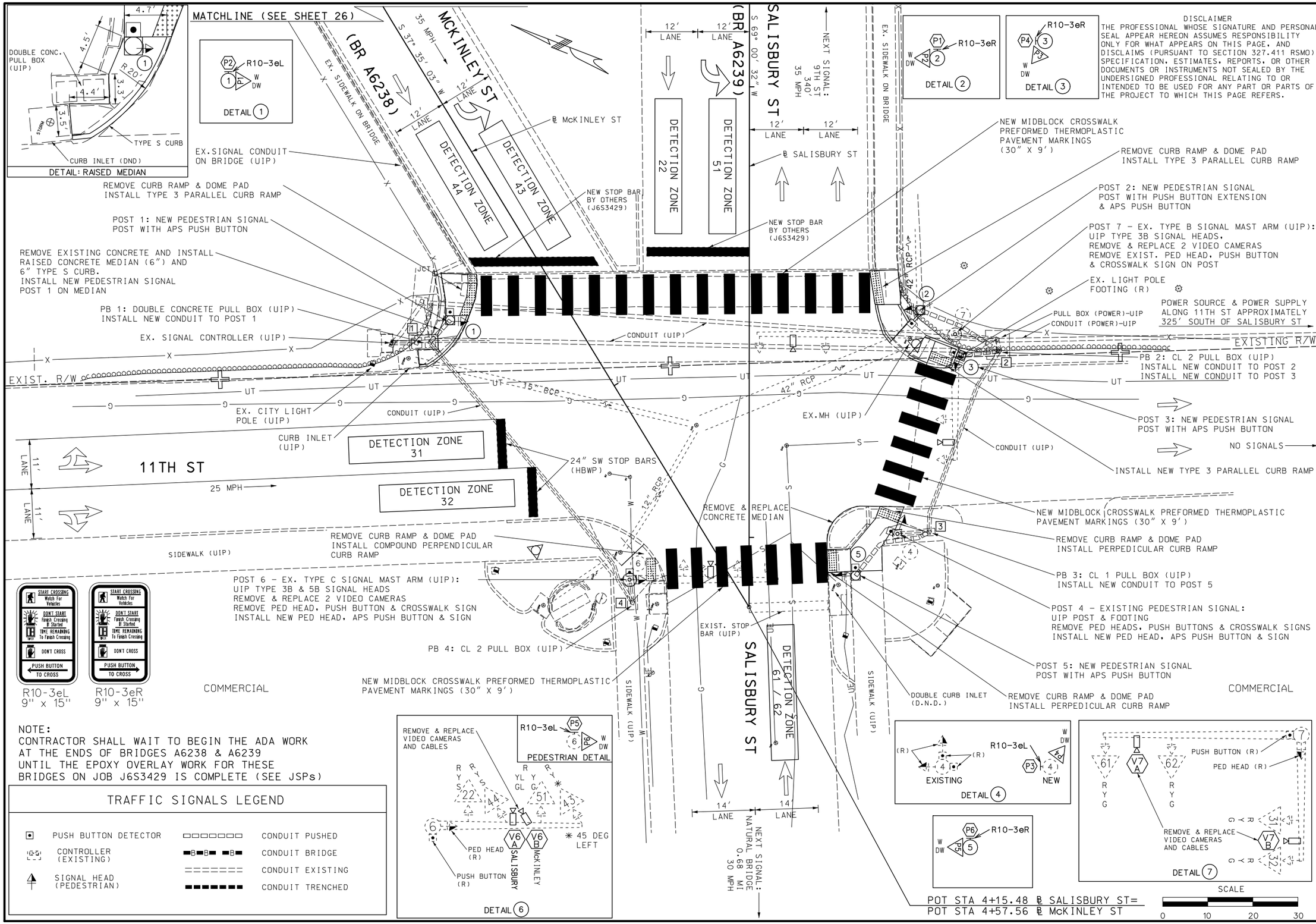
DATE	DESCRIPTION

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

SIGNAL SHEET
SALISBURY ST & 9TH ST
D-37D

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

REV.


MATCHLINE (SEE SHEET 26)
DETAIL: RAISED MEDIAN
DOUBLE CONC. PULL BOX (UIP)
TYPE S CURB
CURB INLET (DND)
DETAIL 1
DETAIL 2
DETAIL 3
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AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED 8/3/2021
ROUTE I-70/44
STATE MO
DISTRICT SL
SHEET NO. 25
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
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)
ADA & SIGNAL PLAN SHEET
McKINLEY ST / SALISBURY ST
AND 11TH ST
(BR A6238)
(BR A6239)
MCKINLEY ST
SALISBURY ST
11TH ST
S 37° 35' 03" W
S 69° 00' 32" W
35 MPH
25 MPH
12' LANE
11' LANE
14' LANE
NEXT SIGNAL: 9TH ST 340' 35 MPH
NEXT SIGNAL: NATURAL BRIDGE 0.68 MI 30 MPH
EX. SIDEWALK ON BRIDGE
℄ McKINLEY ST
℄ SALISBURY ST
DETECTION ZONE 22
DETECTION ZONE 51
DETECTION ZONE 44
DETECTION ZONE 43
DETECTION ZONE 31
DETECTION ZONE 32
DETECTION ZONE 61 / 62
EX.SIGNAL CONDUIT ON BRIDGE (UIP)
NEW STOP BAR BY OTHERS (J6S3429)
REMOVE CURB RAMP & DOME PAD INSTALL TYPE 3 PARALLEL CURB RAMP
POST 1: NEW PEDESTRIAN SIGNAL POST WITH APS PUSH BUTTON
REMOVE EXISTING CONCRETE AND INSTALL RAISED CONCRETE MEDIAN (6") AND 6" TYPE S CURB. INSTALL NEW PEDESTRIAN SIGNAL POST 1 ON MEDIAN
PB 1: DOUBLE CONCRETE PULL BOX (UIP) INSTALL NEW CONDUIT TO POST 1
EX. SIGNAL CONTROLLER (UIP)
EXIST. R/W
EX. CITY LIGHT POLE (UIP)
CURB INLET (UIP)
CONDUIT (UIP)
15" RCP
42" RCP
12" RCP
24" SW STOP BARS (HBWP)
SIDEWALK (UIP)
REMOVE CURB RAMP & DOME PAD INSTALL COMPOUND PERPENDICULAR CURB RAMP
POST 6 - EX. TYPE C SIGNAL MAST ARM (UIP): UIP TYPE 3B & 5B SIGNAL HEADS REMOVE & REPLACE 2 VIDEO CAMERAS REMOVE PED HEAD, PUSH BUTTON & CROSSWALK SIGN INSTALL NEW PED HEAD, APS PUSH BUTTON & SIGN
PB 4: CL 2 PULL BOX (UIP)
NEW MIDBLOCK CROSSWALK PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (30" X 9')
COMMERCIAL
R10-3eL 9" x 15"
R10-3eR 9" x 15"
START CROSSING Watch For Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
DON'T CROSS
PUSH BUTTON TO CROSS
NEW MIDBLOCK CROSSWALK PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (30" X 9')
REMOVE CURB RAMP & DOME PAD INSTALL TYPE 3 PARALLEL CURB RAMP
POST 2: NEW PEDESTRIAN SIGNAL POST WITH PUSH BUTTON EXTENSION & APS PUSH BUTTON
POST 7 - EX. TYPE B SIGNAL MAST ARM (UIP): UIP TYPE 3B SIGNAL HEADS, REMOVE & REPLACE 2 VIDEO CAMERAS REMOVE EXIST. PED HEAD, PUSH BUTTON & CROSSWALK SIGN ON POST
EX. LIGHT POLE FOOTING (R)
POWER SOURCE & POWER SUPPLY ALONG 11TH ST APPROXIMATELY 325' SOUTH OF SALISBURY ST
PULL BOX (POWER)-UIP
CONDUIT (POWER)-UIP
EXISTING R/W
PB 2: CL 2 PULL BOX (UIP) INSTALL NEW CONDUIT TO POST 2 INSTALL NEW CONDUIT TO POST 3
EX.MH (UIP)
POST 3: NEW PEDESTRIAN SIGNAL POST WITH APS PUSH BUTTON
NO SIGNALS
INSTALL NEW TYPE 3 PARALLEL CURB RAMP
REMOVE & REPLACE CONCRETE MEDIAN
NEW MIDBLOCK CROSSWALK PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (30" X 9')
REMOVE CURB RAMP & DOME PAD INSTALL PERPEDICULAR CURB RAMP
PB 3: CL 1 PULL BOX (UIP) INSTALL NEW CONDUIT TO POST 5
POST 4 - EXISTING PEDESTRIAN SIGNAL: UIP POST & FOOTING REMOVE PED HEADS, PUSH BUTTONS & CROSSWALK SIGNS INSTALL NEW PED HEAD, APS PUSH BUTTON & SIGN
EXIST. STOP BAR (UIP)
POST 5: NEW PEDESTRIAN SIGNAL POST WITH APS PUSH BUTTON
DOUBLE CURB INLET (D.N.D.)
REMOVE CURB RAMP & DOME PAD INSTALL PERPEDICULAR CURB RAMP
COMMERCIAL
NOTE:
CONTRACTOR SHALL WAIT TO BEGIN THE ADA WORK AT THE ENDS OF BRIDGES A6238 & A6239 UNTIL THE EPOXY OVERLAY WORK FOR THESE BRIDGES ON JOB J6S3429 IS COMPLETE (SEE JSPs)
TRAFFIC SIGNALS LEGEND
PUSH BUTTON DETECTOR
CONTROLLER (EXISTING)
SIGNAL HEAD (PEDESTRIAN)
CONDUIT PUSHED
CONDUIT BRIDGE
CONDUIT EXISTING
CONDUIT TRENCHED
REMOVE & REPLACE VIDEO CAMERAS AND CABLES
PEDESTRIAN DETAIL
PED HEAD (R)
PUSH BUTTON (R)
45 DEG LEFT
DETAIL 6
EXISTING
NEW
DETAIL 4
PUSH BUTTON (R)
PED HEAD (R)
DETAIL 7
POT STA 4+15.48 ℄ SALISBURY ST=
POT STA 4+57.56 ℄ McKINLEY ST
SCALE
0 10 20 30

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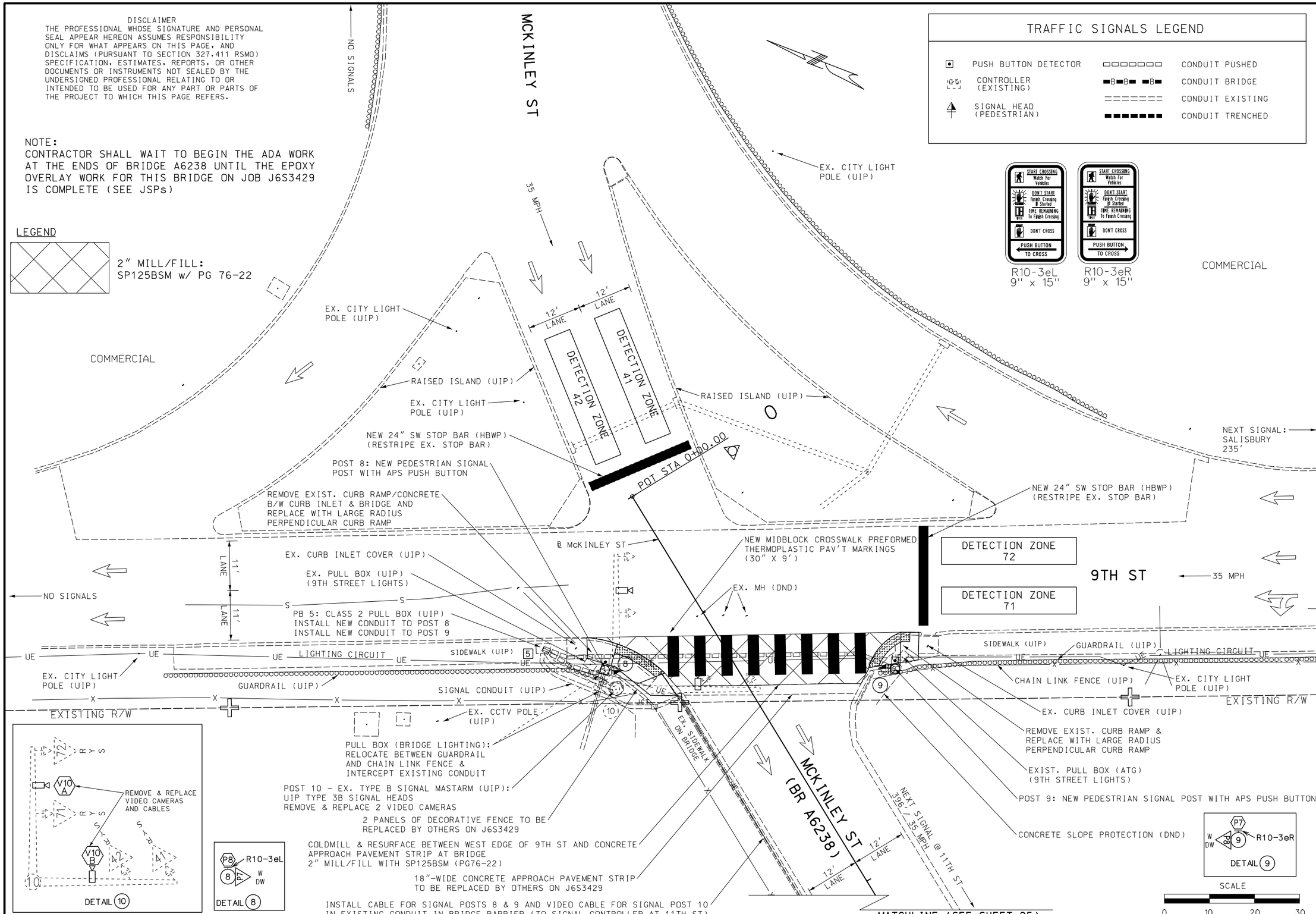
NOTE:
CONTRACTOR SHALL WAIT TO BEGIN THE ADA WORK AT THE ENDS OF BRIDGE A6238 UNTIL THE EPOXY OVERLAY WORK FOR THIS BRIDGE ON JOB J6S3429 IS COMPLETE (SEE JSPs)

LEGEND

2" MILL/FILL:
SP125BSM w/ PG 76-22



STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	26
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

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

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

ADA & SIGNAL PLAN SHEET
McKINLEY ST & 9TH ST

EFFECTIVE: 07/01/2018

LOCATION / BASE

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE A 9	A 9.5	A 10	A 10.5	A 11	A 12	BASE F 9	F 9.5	F 10	F 10.5	F 11	F 12	BASE C	CONCRETE** (CU. YDS.)
1		McKINLEY	3+68.62	23.53′ RT													1	0.44
2		SALISBURY	3+49.5	38′ LT													1	0.44
3		SALISBURY	3+59.57	47.09′ LT													1	0.44
4		SALISBURY	3+99.21	32.95′ LT														UIP
5		SALISBURY	4+08.50	23.66′ LT													1	0.44
6		SALISBURY	4+09.43	26.55′ RT														UIP
7		SALISBURY	3+54.88	45.72′ LT														UIP
8		McKINLEY	0+29.71	25.26′ RT													1	0.44
9		McKINLEY	0+63.01	29.90′ LT													1	0.44
10		McKINLEY	0+34.67	25.39′ RT														UIP
	1	McKINLEY	3+66.38	37.21′ RT														
	2	SALISBURY	3+58.65	55.46′ LT														
	3	SALISBURY	3+98.79	40.00′ LT														
	4	SALISBURY	4+14.54	25.95′ RT														
	5	McKINLEY	0+18.47	34.41′ RT														
SUBTOTALS																		2.64
INTERSECTION TOTALS																		2.6

PULL BOX

POST NUMBER	PULL BOX NUMBER	PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	CONCRETE STANDARD	CONCRETE DOUBLE, TYPE A	CONCRETE DOUBLE, TYPE B	DRAIN TYPE* I	DRAIN TYPE* II A	II B	II C
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
	1						UIP					
	2		UIP									
	3	UIP										
	4		UIP									
	5		UIP									
SUBTOTALS												
INTERSECTION TOTALS												

POST — TOP MOUNT POST / TYPE C & CL

POST NUMBER	TOP MOUNT POST 8 FT.	15 FT.	ARM LENGTH 33	A	A	A	SIGNAL SPACING B	C	D	D′	SIGN SPACING B	C	D	D′
1	1													
2	1													
3	1													
4	UIP													
5	1													
6			UIP					UIP			UIP			
7														
8	1													
9	1													
10														
SUBTOTALS	6													
INTERSECTION TOTALS	6													

POST — TYPE B & BL / LUMINAIRE BRACKET ARM* / PUSH BUTTON EXT.

POST NUMBER	ARM LENGTH 28	48	30	37	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H′	LEFT ARM E SIGN SPACING F	G	H	H′	RIGHT ARM K SIGNAL SPACING L	M	N	N′	RIGHT ARM K SIGN SPACING L	M	N	N′	INCLUDED ANGLE	LUMINAIRE 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.	PUSH BUTTON EXT. EA
1																														
2																														1
3																														
4																														
5																														
6																														
7	UIP						UIP				UIP				UIP				UIP											
8																														
9																														
10			UIP				UIP				UIP				UIP				UIP											
SUBTOTALS																														1
INTERSECTION TOTALS																														1

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	12″ LENS CONVENTIONAL R	Y	YL	YR†	FYL	FYR	G	S	L	R†	✋🚶	12″ LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS* 12″ LENS	VISORS* PED.
	1	P1												1												1
	2	P2												1												1
	3	P3												1												1
	4	P4												1												1
	5	P5												1												1
	6	P6												1												1
	8	P7												1												1
	9	P8												1												1
SUBTOTAL																										
INTERSECTION TOTAL																										

FACE NUMBER	LOUVERS* A	B	C	D	E	F	BACKPLATE* LENSES 1	2	3	4	5	RETROREFLECTIVE BACKPLATE* LENSES 1	2	3	4	5	BRACKET* TYPE I	II	III
P1																	1		
P2																	1		
P3																	1		
P4																	1		
P5																	1		
P6																	1		
P7																	1		
P8																	1		

FACE NUMBER	ONE-FACE SECTION 1- T	1- S	1- C	1- B	3- T	3- S	3- C	3- B	4- T	4- S	4- C	4- B	5- T	5- S	5- C	5- B	TWO-FACE SECTIONS 11- T	11- S	11- B	33- T	33- S	33- C	33- B	34- S	34- B	35- S	35- B	44- S	44- B	45- S	45- B
P1		1																													
P2		1																													
P3		1																													
P4		1																													
P5		1																													
P6		1																													
P7		1																													
P8		1																													
SUBTOTALS OPTICALLY LIMITED																															
SUBTOTALS CONVENTIONAL																															
SUBTOTALS COUNTDOWN PEDESTRIAN		8																													
INTERSECTION TOTALS OPTICALLY LIMITED																															
INTERSECTION TOTALS CONVENTIONAL																															
INTERSECTION TOTALS COUNTDOWN PEDESTRIAN		8																													

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

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

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McKINLEY ST & 9TH ST
McKINLEY ST / SALISBURY ST & 11TH ST

INTERSECTION

LEGEND

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

D-37A

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 27
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

SIGNAL SHEET
McKINLEY ST & 9TH ST
AND
McKINLEY ST / SALISBURY ST
& 11TH ST
D-37A

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

DISCLAIMER

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EFFECTIVE: 10-01-2015

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"		
P.S.	C																UIP EXISTING
C	PB1	10															UIP EXISTING
PB1	P1	7							8								
PB1	PB2	126															UIP EXISTING
PB2	P2	20							21								
PB2	P3	9							10								
PB2	PB3	44															UIP EXISTING
PB3	P4	7															UIP EXISTING
PB3	P5	20							21								
PB1	PB4	73															UIP EXISTING
P4	P6	5															UIP EXISTING
PB1	JCT1	15															
JCT1	JCT2	329															
JCT2	PB5	31															
PB5	P8	15							16								
PB5	P9	79							80								
SUBTOTALS									156								
INTERSECTION TOTALS									156								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LIGHTING		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO		SINGLE-MODE	MULTI-MODE	
P.S.	C															UIP EXISTING
C	HP1	16				40										
C	DP2	16			39											
C	HP2	156				186										
C	DP1	158			187											
C	HP3	145				175										
C	DP4	145			174											
C	HP4					UIP										CONNECT NEW HEAD TO EX CABLE
C	DP3				UIP											CONNECT NEW P.B. TO EX CABLE
C	HP5	200				236										
C	DP6	200			235											
C	HP6					UIP										CONNECT NEW HEAD TO EX CABLE
C	DP5				UIP											CONNECT NEW P.B. TO EX CABLE
C	HP7	400				436										
C	DP8	400			435											
C	HP8	464				500										
C	DP7	464			499											
C	V6A	88										(151)				
C	V6B	88										(154)				
C	V7A	148										(229)				
C	V7B	148										(217)				
C	V10A	403										(476)				
C	V10B	403										(473)				
SUBTOTALS					1569	1573						(1700)				
INTERSECTION TOTALS					1648	1652						(1785) *				INCLUDES 5% FOR SNAKING

* SEE D37-C

INTERSECTION McKINLEY ST & 9TH ST
McKINLEY ST / SALISBURY ST & 11TH ST

D-37B

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO

DISTRICT	SHEET NO.
SL	28

COUNTY: ST. LOUIS CITY

JOB NO. J6I3424

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNAL SHEET
McKINLEY ST & 9TH ST
AND
McKINLEY ST / SALISBURY ST
& 11TH ST
D-37B

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

EFFECTIVE 04-01-2018

POWER SUPPLY (UIP)

LOCATION			POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE (UIP)	
				CONTROLLER		POWER SUPPLY DISCONNECT					
						MAIN BREAKER					
APPROACH	STATION	OFFSET		AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
SALISBURY	3+51	321'LT	UIP	15 Amps	· Amps	Amps	Amps		Amps	Cl. Ft.	
				15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT (UIP)

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
McKINLEY ST	3+66.4	37.2' RT	UIP									UIP										

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	DETECTOR ZONE	TYPE				
			AUDIBLE PED SIGNAL PUSH BUTTON	INDUCTION LOOP (2)			VIDEO (3)
				STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
P1	NB PED-EAST SIDE OF 11TH ST		1				
P2	SB PED-EAST SIDE OF 11TH ST		1				
P3	EB PED-WEST SIDE OF 11TH ST		1				
P4	WB PED-EAST SIDE OF 11TH ST		1				
P5	SB PED-WEST SIDE OF 11TH ST		1				
P6	NB PED-WEST SIDE OF 11TH ST		1				
P7	NB PED-WEST SIDE OF 9TH ST		1				
P8	SB PED-WEST SIDE OF 9TH ST		1				
V6A	WB SALISBURY LEFT	51					1 CAMERA
	WB SALISBURY	22					
V6B	WB McKINLEY LEFT	43					1 CAMERA
	WB McKINLEY	44					
V7A	EB SALISBURY	61 / 62					1 CAMERA
V7B	SB 11TH ST (THRU/LT)	31					1 CAMERA
	SB 11TH ST (THRU/RT)	32					
V10A	NB 9TH ST	71					1 CAMERA
	NB 9TH ST	72					
V10B	WB McKINLEY	41					1 CAMERA
	WB McKINLEY	42					
	INTERSECTION TOTALS		8				SEE BELOW

✳ 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) VIDEO DETECTION INPUTS INTO CONTROLLER VIA SDLC PORT, CABINET TO BE TS2 TYPE 2 SETUP WITH 3 EACH SDLC CONNECTORS & MMU.

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
NOT USED	Ø2 WB	Ø3 SB SB LT	Ø4 WB ✳	Ø5 WB LT	Ø6 EB	Ø7 NB / Ø7 PED	NOT USED	Ø3 PED	Ø6 PED	OLA (WB) ✳	OLB (NB)

✳ McKINLEY

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		
4	R10-3eR	9 X 15	0.9	3.6	4
4	R10-3eL	9 X 15	0.9	3.6	4
		SUBTOTALS		7.2	8
		INTERSECTION TOTALS		✳✳	✳✳

✳✳ PEDESTRIAN SIGNS INCLUDED IN PAY ITEM FOR AUDIBLE PEDESTRIAN PUSHBUTTON

VIDEO DETECTION

CONTROLLER LOCATION			CAMERAS (each)	CABLE (lf)	MONITOR, SOFTWARE, & ACCESSORIES (Lump Sum)	VIDEO DETECTION SYSTEM (each)
APPROACH	STATION	OFFSET				
McKINLEY ST	3+66.38	37.21' RT	6	1785	1	1
		INTERSECTION TOTAL				1

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McKINLEY ST & 9TH ST
McKINLEY ST / SALISBURY ST & 11TH ST
INTERSECTION

D-37C

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021
ROUTE I-70/44 | STATE MO
DISTRICT SL | SHEET NO. 29
COUNTY ST. LOUIS CITY
JOB NO. J6I3424
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

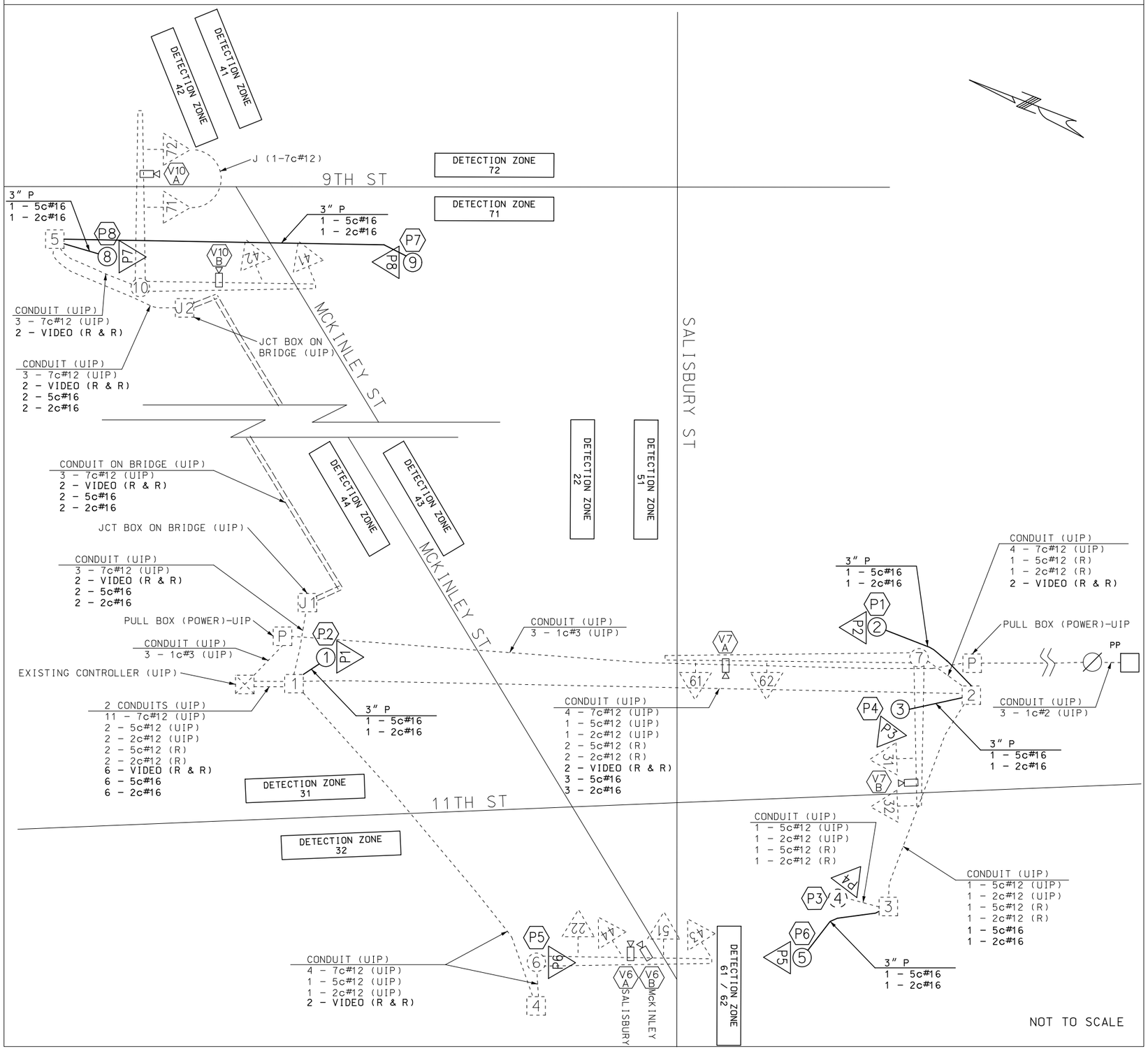
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL SHEET
McKINLEY ST & 9TH ST
AND
McKINLEY ST / SALISBURY ST
& 11TH ST
D-37C

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

REV.

WIRING DIAGRAM



EFFECTIVE 12-01-17

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LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
PP	POWER SOURCE (AMEREN POLE)
	VIDEO DETECTION CAMERA
J	JUMPER
P	PUSHED CONDUIT
T	TRENCHED CONDUIT

McKINLEY ST & 9TH ST
McKINLEY ST / SALISBURY ST & 11TH ST

INTERSECTION

D-37D

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	30
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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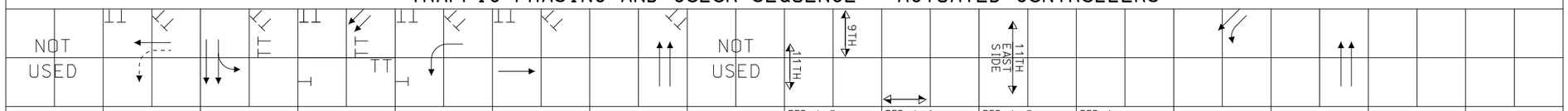
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL SHEET
McKINLEY ST & 9TH ST
AND
McKINLEY ST / SALISBURY ST
& 11TH ST
D-37C

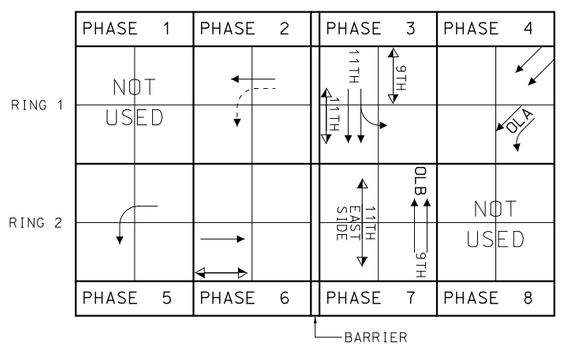
EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS



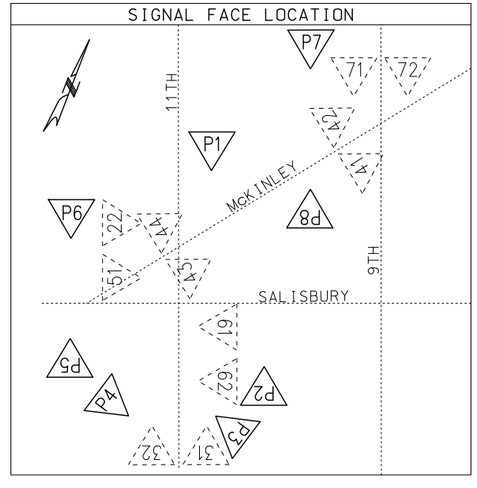
	PHASE Ø1	PHASE Ø2	PHASE Ø3	PHASE Ø4	PHASE Ø5	PHASE Ø6	PHASE Ø7	PHASE Ø8	PED Φ 3 OVERLAP	PED Φ 6 OVERLAP	PED Φ 7 OVERLAP	PED Φ OVERLAP	OVERLAP A	OVERLAP B	OVERLAP	OVERLAP	
FACE NUMBERS		51 22	31 32	41 42	51	61 62	71 72		P5 P7	P3	P1		43 44	71 72			FACE NUMBERS
									P6 P8	P4	P2						
SIGNAL INDICATIONS R		R R	R R	R R	R	R R	R R		DW DW	DW	DW		R R	R R			R
SIGNAL INDICATIONS Y		Y Y	Y Y	Y Y	L	Y Y	Y Y		FDW FDW	FDW	FDW		Y Y	Y Y			Y
SIGNAL INDICATIONS FYA																	FYA
SIGNAL INDICATIONS G		G S	G G			G G			W W	W	W		✳ S	S S			G
DETECTOR ASSIGNMENTS				S S	L		S S										DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																	
OVERLAP PARENT PHASES													Ø4	Ø2 Ø6	Ø3 Ø5 Ø7		

✳ 45 DEGREE LT



RING STRUCTURE

SIGNAL FACE LOCATION



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
YR	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

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FLASHING OPERATION	
ALL	FR
	FY

CONTROLLER TYPE NEMA 8Ø

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
McKINLEY ST & 9TH ST
McKINLEY ST / SALISBURY ST & 11TH ST

D-38A

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	31
COUNTY	ST LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

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

SIGNAL SHEET
McKINLEY ST & 9TH ST
AND
McKINLEY ST / SALISBURY ST
& 11TH ST
D-38A

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

GENERAL NOTES:

PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT

CAMERAS SHALL BE AT MINIMUM 30′ HEIGHT ABOVE GRADE

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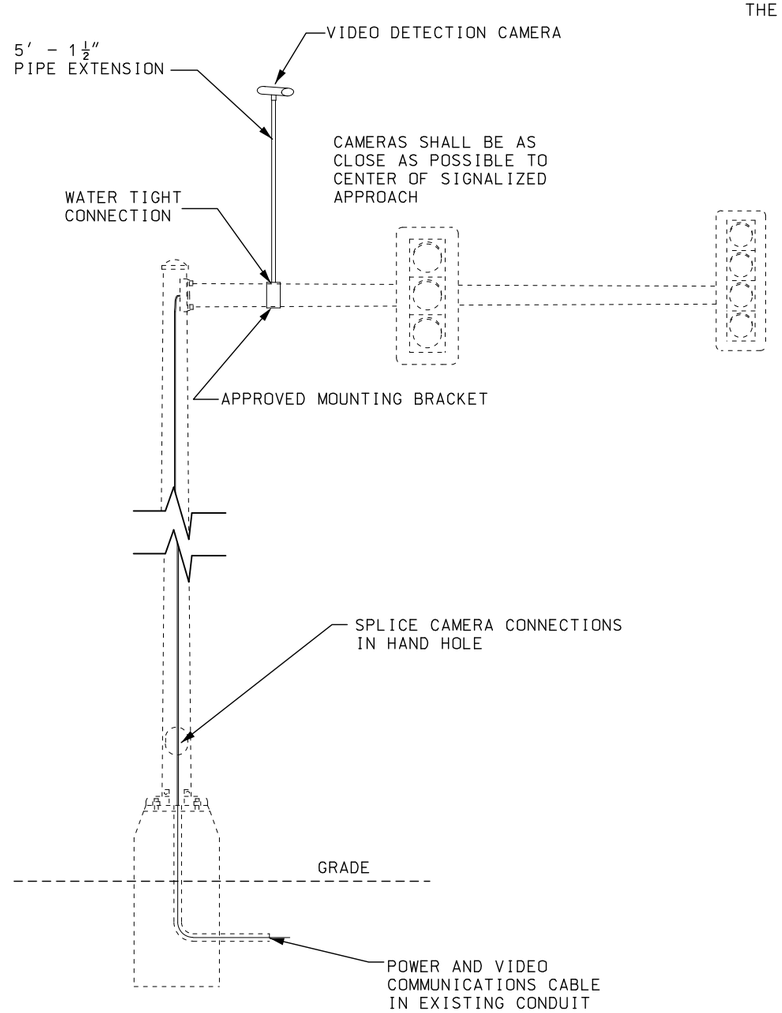

VIDEO DETECTION MOUNTING DETAILS

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021	
ROUTE I-70/44	STATE MO
DISTRICT SL	SHEET NO. 31A
COUNTY ST. LOUIS CITY	
JOB NO. J6I3424	
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)

SIGNAL SPECIAL SHEET

VIDEO DETECTION MOUNTING DETAIL

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

NOTE:
1) INLAID PAVEMENT MARKERS SHALL BE PLACED ON STRIPING LANES WITH TWO OR MORE LANES AND GORES. (WHICH SHALL BE PLACES EVERY 80′).
2) BLACK CONTRAST MARKING ARE REQUIRED FOR ALL LANES ON CONCRETE PAVEMENT (NO DIRECT PAY).
3) HBWP: HIGH BUILD WATERBORNE PAINT WITH TYPE L BEADS.

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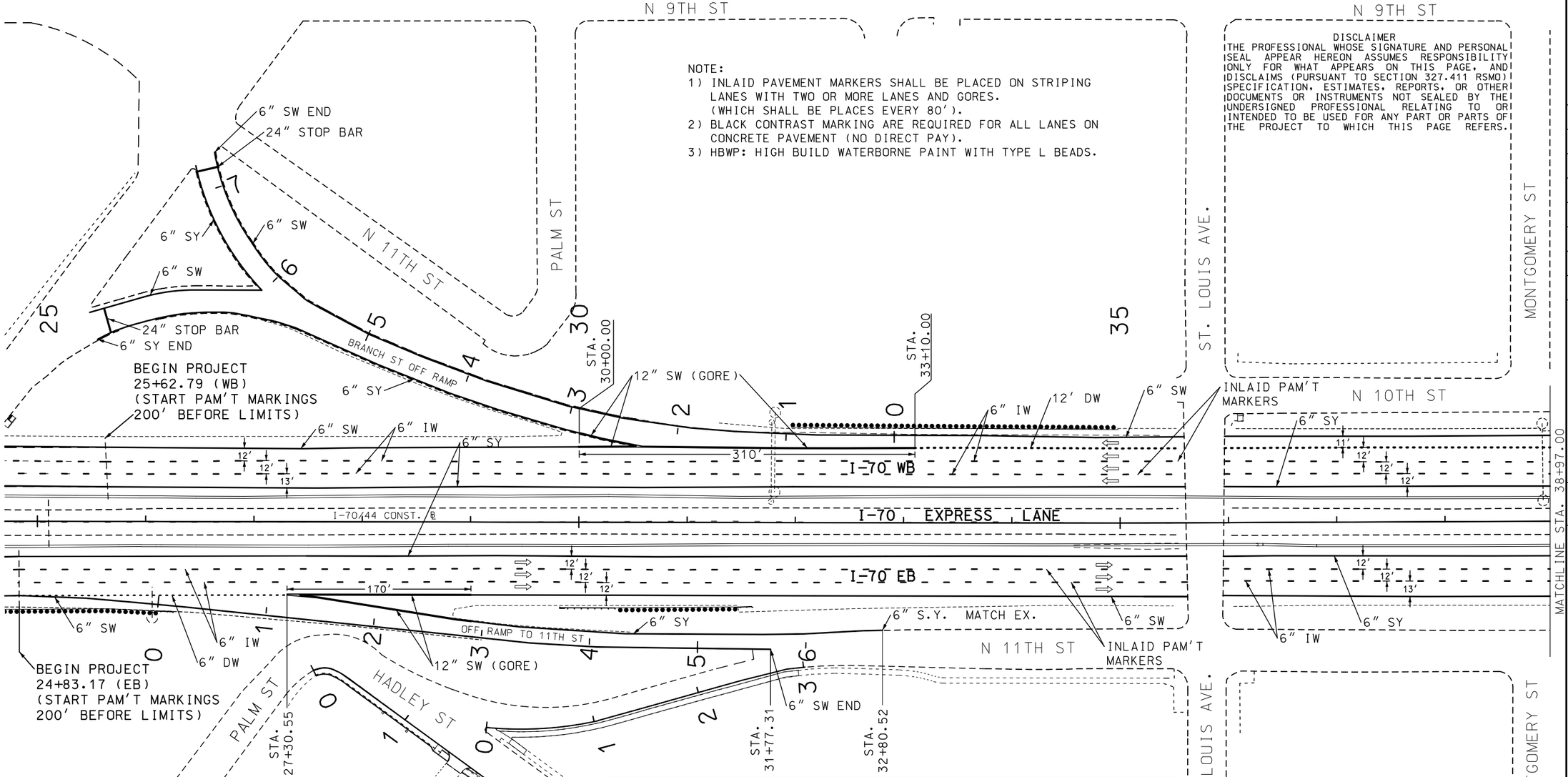

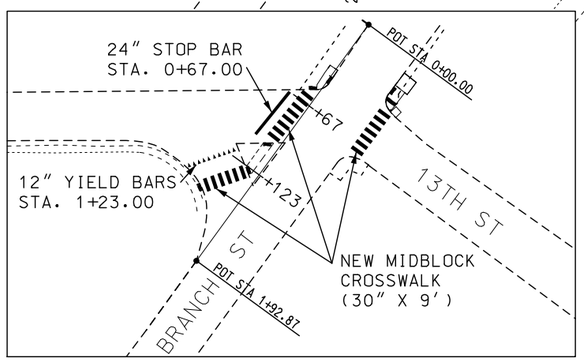

PAVEMENT MARKINGS LEGEND

4″ SY	4″ SOLID YELLOW LINE (HBWP)
6″ SW	6″ SOLID WHITE LINE (HBWP)
6″ IW	6″ INTMT WHITE LINE (HBWP) 10′ STRIPE & 30′ GAP
6″ DW	6″ DASHED WHITE LINE (HBWP) 3′ STRIPE & 9′ GAP
6″ SY	6″ SOLID YELLOW LINE (HBWP)
6″ IY	6″ INTMT YELLOW LINE (HBWP)
12″ SW	12′ SOLID WHITE (GORE) (HBWP)
12″ DW	12″ DOTTED WHITE LINE (HBWP) 3′ STRIPE & 9′ GAP
✳ 6″ DWL-T	6″ DOTTED WHITE LINE (THERMOPLASTIC) 2′ STRIPE & 4′ GAP

	(30″X 9′) WHITE MIDBLOCK CROSSWALK MARKINGS (THERMOPLASTIC)		SOLID WHITE TURN ARROW LEFT & RIGHT (THERMOPLASTIC)
ONLY	5′-10″ X 8′ ONLY PAVEMENT MARKING (PREFORMED THERMOPLASTIC)		SOLID WHITE STRAIGHT LEFT ARROW (THERMOPLASTIC)
	24″ SWB - 24″ SOLID WHITE HATCHING (THERMOPLASTIC)		SOLID WHITE LANE DROP ARROW LEFT (THERMOPLASTIC)
	SOLID WHITE ARROW (THERMOPLASTIC)		LANE USAGE ARROW

SCALE
0 50 100 150

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	32
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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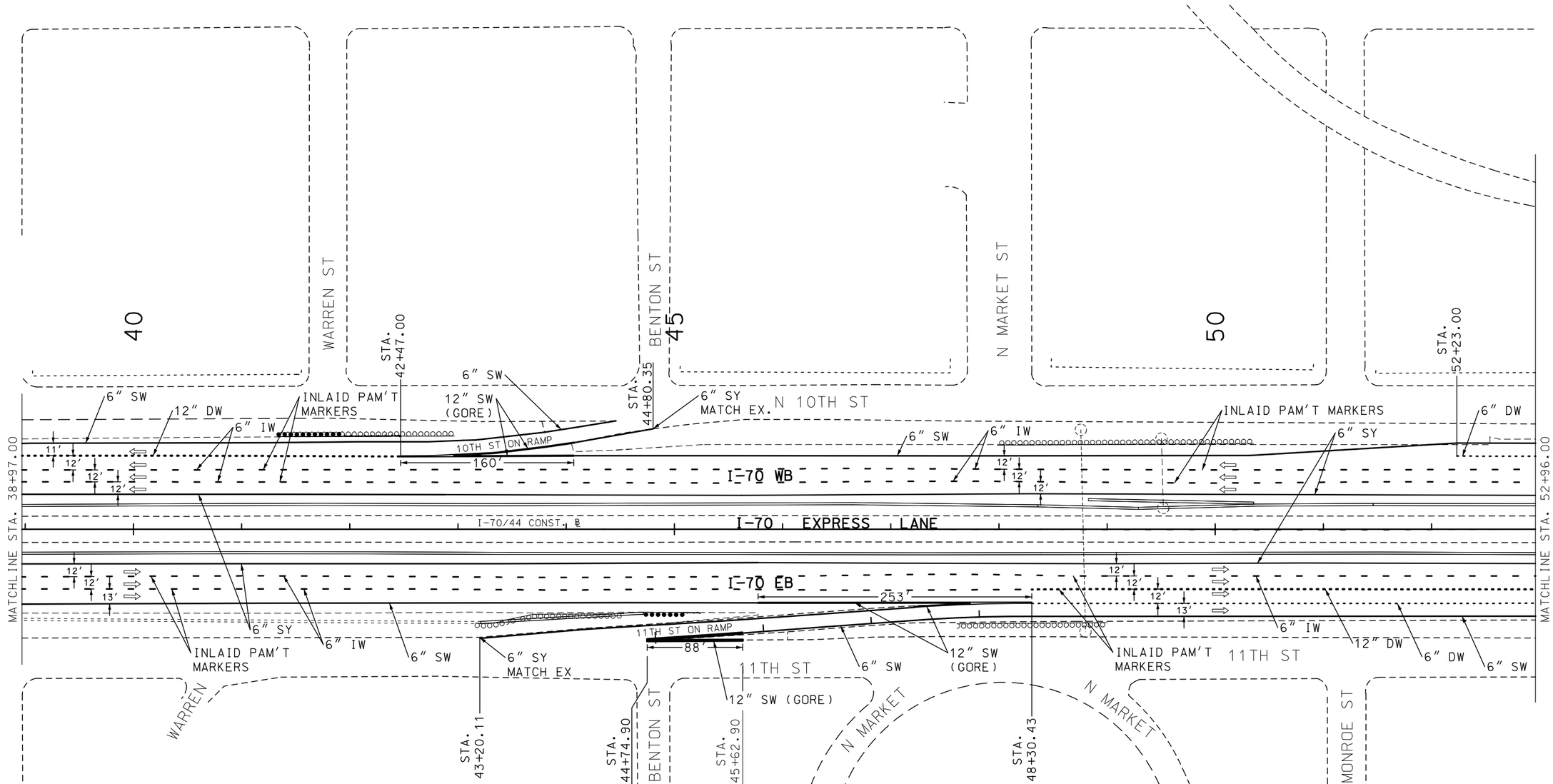
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING

REV.



PAVEMENT MARKINGS LEGEND

4" SY	4" SOLID YELLOW LINE (HBWP)
6" SW	6" SOLID WHITE LINE (HBWP)
6" IW	6" INTMT WHITE LINE (HBWP) 10' STRIPE & 30' GAP
6" DW	6" DASHED WHITE LINE (HBWP) 3' STRIPE & 9' GAP
6" SY	6" SOLID YELLOW LINE (HBWP)
6" IY	6" INTMT YELLOW LINE (HBWP)
12" SW	12' SOLID WHITE (GORE) (HBWP)
12" DW	12" DOTTED WHITE LINE (HBWP) 3' STRIPE & 9' GAP
* 6" DWL-T	6" DOTTED WHITE LINE (THERMOPLASTIC) 2' STRIPE & 4' GAP

▌▌▌	(30"X 9') WHITE MIDBLOCK CROSSWALK MARKINGS (THERMOPLASTIC)	↰	SOLID WHITE TURN ARROW LEFT & RIGHT (THERMOPLASTIC)
ONLY	5'-10" X 8' ONLY PAVEMENT MARKING (PREFORMED THERMOPLASTIC)	↑	SOLID WHITE STRAIGHT LEFT ARROW (THERMOPLASTIC)
▬	24" SWB - 24" SOLID WHITE HATCHING (THERMOPLASTIC)	↙	SOLID WHITE LANE DROP ARROW LEFT (THERMOPLASTIC)
→	SOLID WHITE ARROW (THERMOPLASTIC)	⇨	LANE USAGE ARROW

SCALE
0 50 100 150

DISCLAIMER
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STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	33

COUNTY: ST. LOUIS CITY
JOB NO.: J6I3424
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

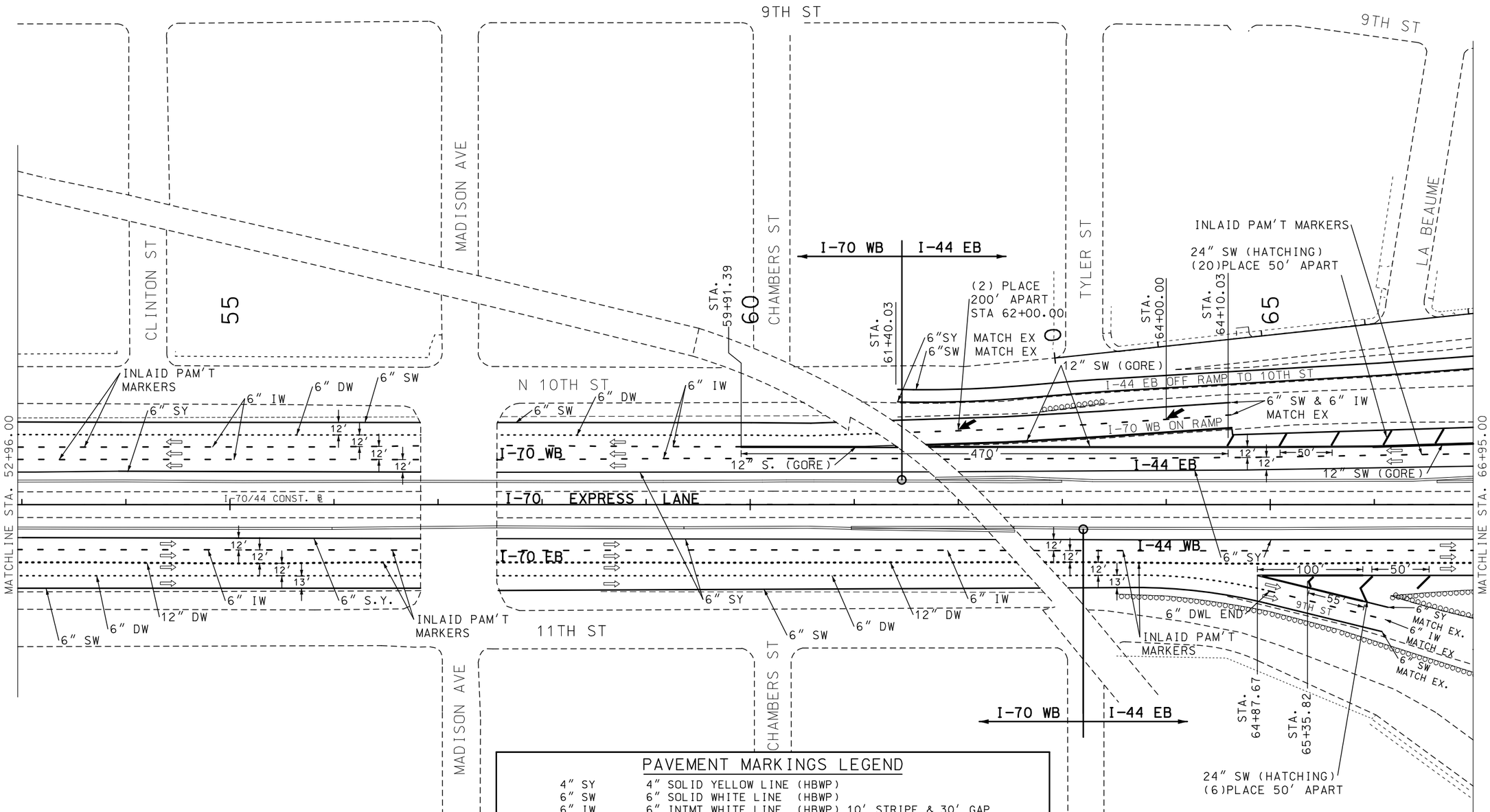
DATE	DESCRIPTION

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

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

PAVEMENT MARKING

REV.



PAVEMENT MARKINGS LEGEND

4" SY	4" SOLID YELLOW LINE (HBWP)
6" SW	6" SOLID WHITE LINE (HBWP)
6" IW	6" INTMT WHITE LINE (HBWP) 10' STRIPE & 30' GAP
6" DW	6" DASHED WHITE LINE (HBWP) 3' STRIPE & 9' GAP
6" SY	6" SOLID YELLOW LINE (HBWP)
6" IY	6" INTMT YELLOW LINE (HBWP)
12" SW	12' SOLID WHITE (GORE) (HBWP)
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(30"X 9') WHITE MIDBLOCK CROSSWALK MARKINGS (THERMOPLASTIC)	SOLID WHITE TURN ARROW LEFT & RIGHT (THERMOPLASTIC)
ONLY 5'-10" X 8' ONLY PAVEMENT MARKING (PREFORMED THERMOPLASTIC)	SOLID WHITE STRAIGHT LEFT ARROW (THERMOPLASTIC)
24" SWB - 24" SOLID WHITE HATCHING (THERMOPLASTIC)	SOLID WHITE LANE DROP ARROW LEFT (THERMOPLASTIC)
SOLID WHITE ARROW (THERMOPLASTIC)	LANE USAGE ARROW

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AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	34
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE

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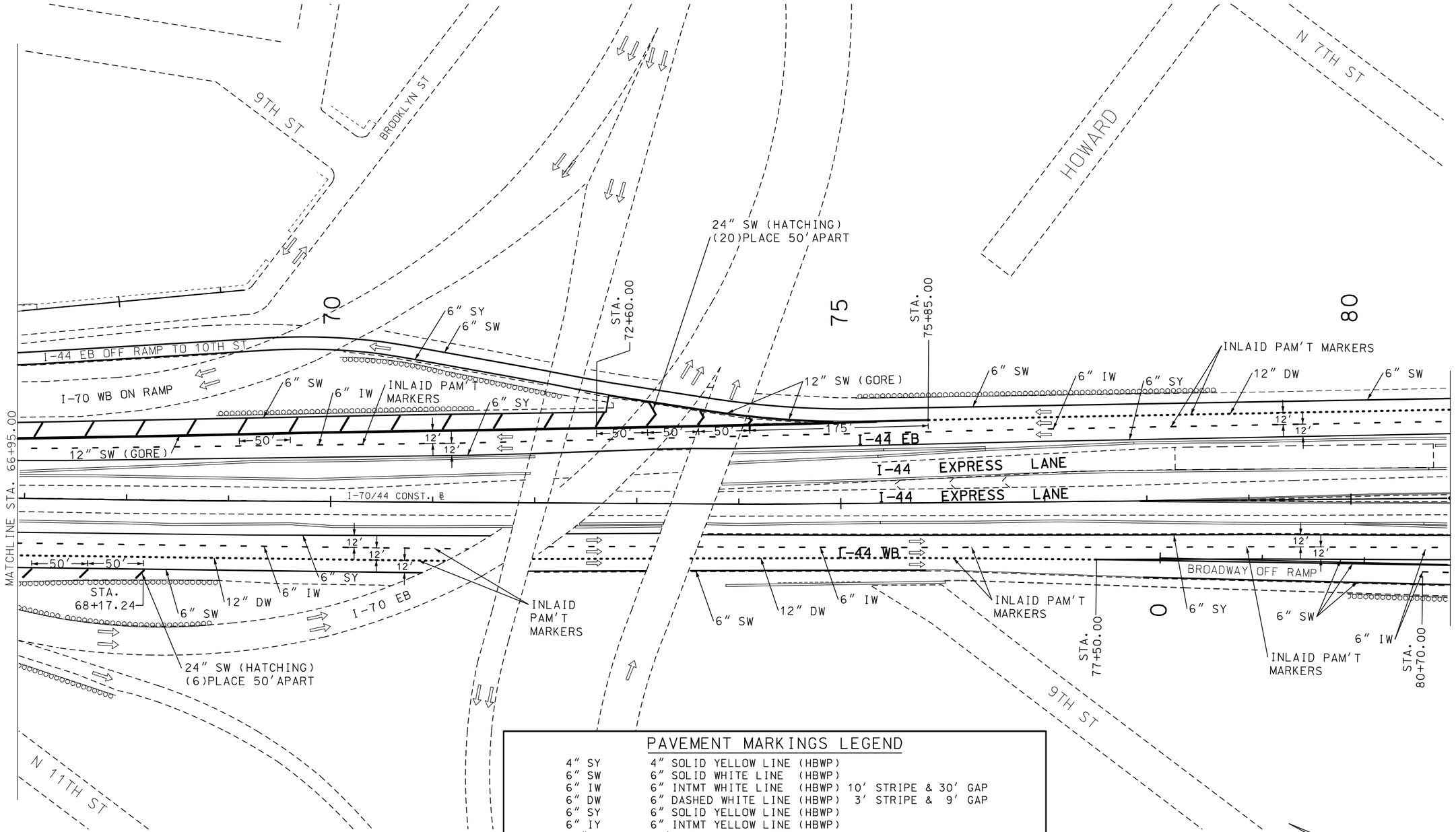
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING

REV.



PAVEMENT MARKINGS LEGEND

4" SY	4" SOLID YELLOW LINE (HBWP)
6" SW	6" SOLID WHITE LINE (HBWP)
6" IW	6" INTMT WHITE LINE (HBWP) 10' STRIPE & 30' GAP
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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	35
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

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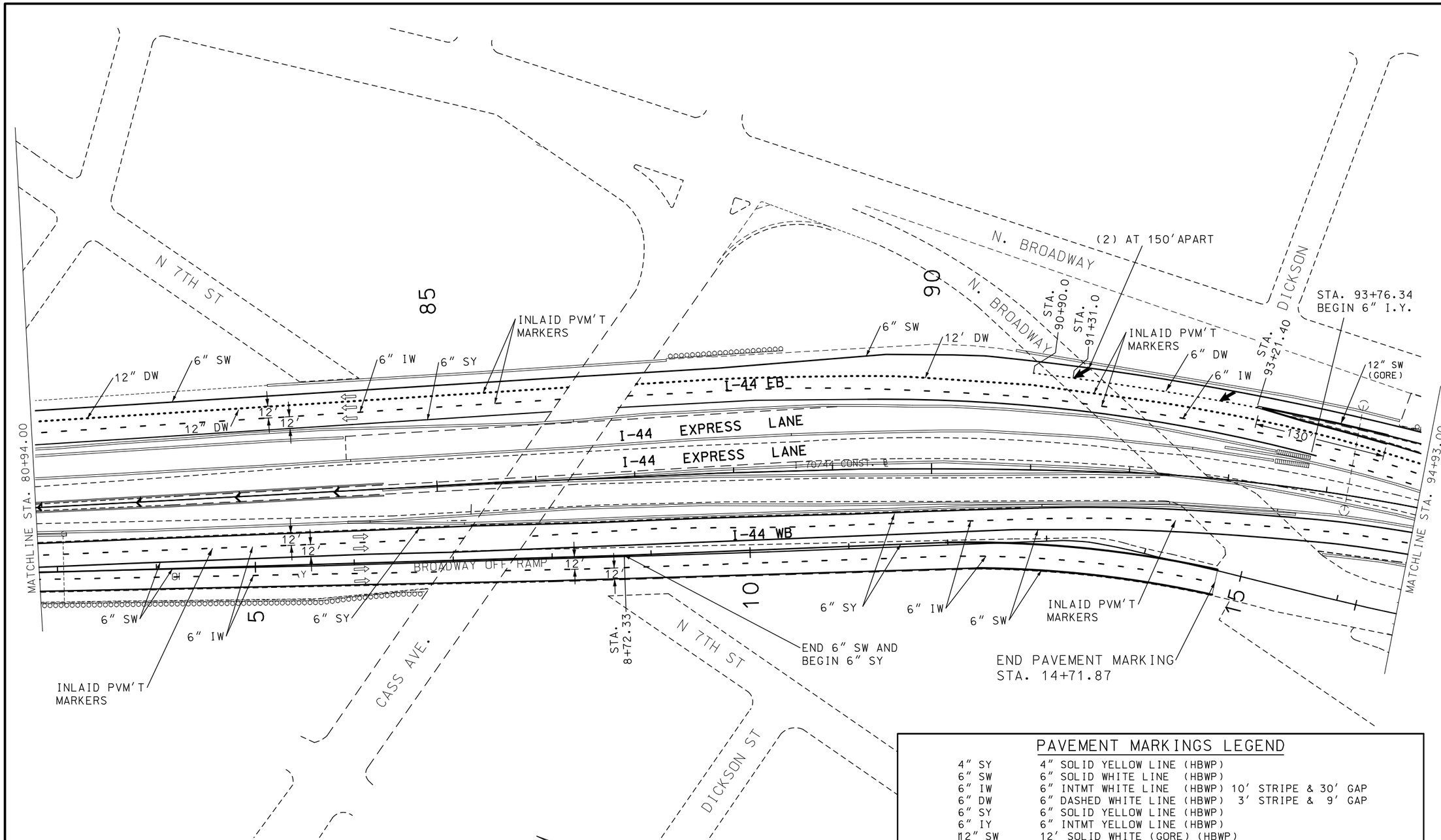
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING

REV.



PAVEMENT MARKINGS LEGEND

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SOLID WHITE ARROW (THERMOPLASTIC)	LANE USAGE ARROW

SCALE

0 50 100 150

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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	36
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

PAVEMENT MARKING

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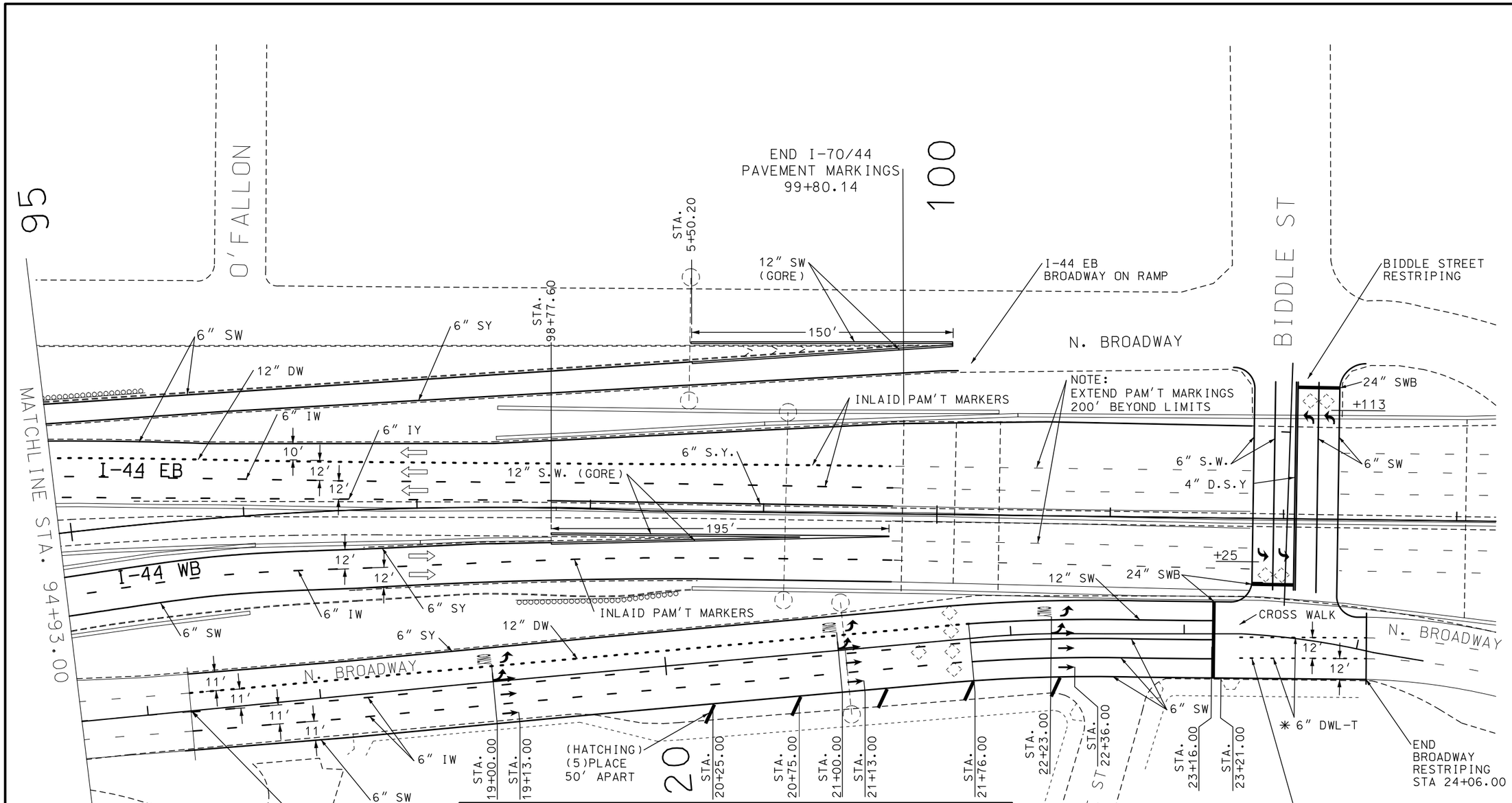
REV.



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DATE PREPARED	8/3/2021
ROUTE	I-70/44
STATE	MO
DISTRICT	SL
SHEET NO.	37
COUNTY	ST. LOUIS CITY
JOB NO.	J6I3424
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

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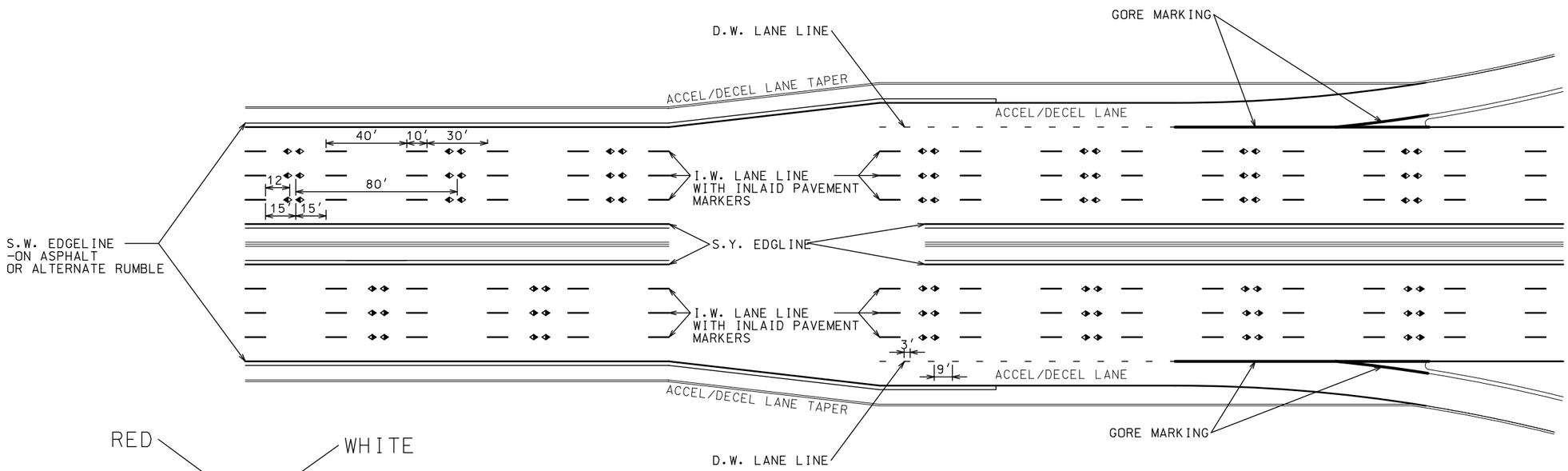
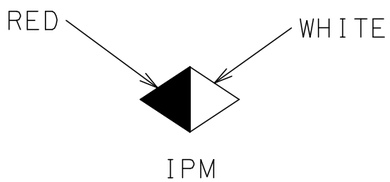
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING

REV.





NOTE: USE CONTRAST MARKINGS ON RECONSTRUCTION AREA IF CONCRETE OPTION CHOSEN (NO DIRECT PAY)

D.W = 12" DOTTED WHITE LANE LINE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT (TYPE L BEADS)

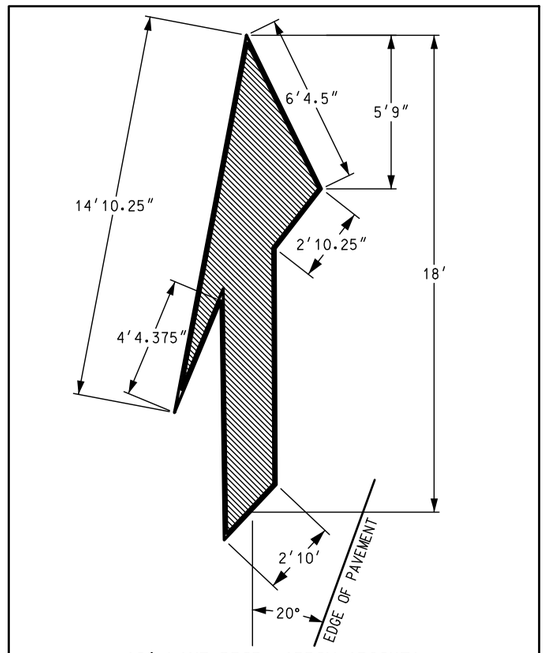
I.W. = 6" INTERMITTENT WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT (TYPE L BEADS)

S.W. = 6" SOLID WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT (TYPE L BEADS)

S.Y. = 6" SOLID YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT (TYPE L BEADS)

GORE = 12" SOLID WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT (TYPE L BEADS)

NOTE: WHEN INLAID PAVEMENT MARKERS ARE INSTALLED ALONG A DOTTED WHITE LINE THEY SHALL BE INSTALLED EVERY 72 FEET.



18' LANE DROP ARROW (RIGHT)
FOR LEFT LANE, USE MIRROR IMAGE

NOT TO SCALE

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AARON JOHN GROFF
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DATE PREPARED 8/3/2021

ROUTE	STATE
I-70/44	MO
DISTRICT	SHEET NO.
SL	38

COUNTY: ST. LOUIS CITY
JOB NO.: J6I3424
CONTRACT ID.
PROJECT NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

INLAID PAVEMENT MARKING
TYPICAL & MERGE ARROW

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