DESIGN DESIGNATION

ROUTE D

A.A.D.T. - 2023 = 10,336

D.H.V. = 748

T = 5.39%

V = 35 M.P.H.

D = 50.2/49.8%

FUNCTIONAL CLASSIFICATION = PRINCIPAL ARTERIAL

NORMAL ACCESS RIGHT OF WAY IS TO BE ACQUIRED FOR THIS PROJECT.

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		

UTILITIES

FIBER OPTICS	-FO-	~~FO~~
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-UT-	~~UT~~
OVERHEAD POWER	-OE-	~~OE~~
UNDERGROUND POWER	-UE-	~~UE~~
GAS	-G-	~~G~~
WATER	-W-	~~W~~
CABLE TV	-UTV-	~~UTV~~
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		
POWER POLE	PP	
GUY WIRE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	
TEMPORARY CONSTRUCTION EASEMENT	TCE	
DO NOT DISTURB	(DND)	
REMOVE	(R)	
RELOCATE	(RELOC.)	
REMOVE AND REPLACE	(R & R)	
REMOVE AND RELOCATE	(R & RELOC.)	
ADJUST TO GRADE	(ATG)	
USE IN PLACE	(UIP)	
TO BE ABANDONED	(TBA)	
BY OTHERS	(BO)	

CURB RAMPS

COMPOUND PERPENDICULAR CURB RAMP	COMP PERP RAMP
TYPE 1 PARALLEL CURB RAMP	T1 PAR RAMP
TYPE 2 PARALLEL CURB RAMP	T2 PAR RAMP
SMALL RADIUS PERPENDICULAR CURB RAMP	SR PERP RAMP
LARGE RADIUS PERPENDICULAR CURB RAMP	LR PERP RAMP
DUAL PERPENDICULAR CURB RAMP	DUAL PERP RAMP
BLENDED TRANSITION CURB RAMP	BLD TRANS RAMP
TRUNCATED DOMES	

DRAINAGE

GRATE INLET	GI
CURB INLET	CI
MANHOLE	MH
SPECIAL STRUCTURE	SP
COLLAR	COL
FLARED END SECTION	FES

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

ROUTE D (PAGE AVENUE)

ADA, SIGNAL, AND PAVEMENT IMPROVEMENTS

MoDOT JOB NO. J6S3215B

ST. LOUIS COUNTY

US SURVEY 2033

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KEY MAP

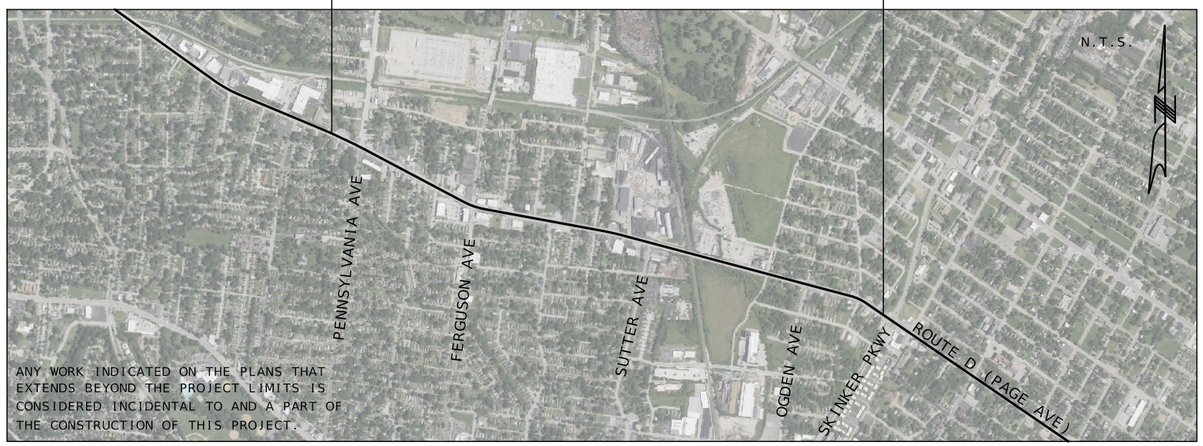
SHOWING LOCATION OF ST. LOUIS COUNTY



ROAD DIET
SIDEWALKS
PAVEMENT
DRAINAGE
SIGNALS
LIGHTING
SIGNING
STRIPING

BEGIN PROJECT
ROUTE D
STA. 278+90.00

END PROJECT
ROUTE D
STA. 173+00.00



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.

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL HE THE RESPONSIBILITY OF THE CONTRACTOR. THEY SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

MISSOURI ONE CALL: 1-800-DIG-RITE (1-800-344-7483)

PREVAILING WAGE NOTE:
NOTICE TO CONTRACTOR: THIS PROJECT INCLUDES CONSTRUCTION OF GREEN INFRASTRUCTURE OR RELOCATION, ALTERATION, OR RECONSTRUCTION OF EXISTING MSD FACILITIES. IN ACCORDANCE WITH THE MSD GREEN INFRASTRUCTURE PROGRAM AND MSD RESOLUTION 3263, THE DISTRICT REQUIRES THE WAGE RATE AT THE TIME OF CONSTRUCTION START. AN AFFIDAVIT CERTIFYING THAT THE MISSOURI PREVAILING WAGE RATE AT THE TIME OF CONSTRUCTION START HAS BEEN PAID FOR ALL WORK RELATED TO GREEN INFRADTRUCTURE OR RELOCATION, ALTERATION, OR RECONSTRUCTION OF EXISTING MSD FACILITIES IS REQUIRED PRIOR TO MSD CONSTRUCTION APPROVAL OF THIS PROJECT.

CONTRACTOR'S INSURANCE (OFFSITE):
PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITTEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITIES, SECTION 10.090. (ADDENDUM)

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
*TITLE SHEET	1
*TYPICAL SECTIONS (TS) (4 SHEETS)	2
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*PLAN SHEETS (PS)	4-19
*DRAINAGE & UTILITY SHEETS (DU)	20-35
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TRAFFIC CONTROL SHEETS (TC)	60-79
*EROSION CONTROL SHEETS (EC)	80-95
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SIGNING SHEETS (SN)	150-171
PAVEMENT MARKING SHEETS (PM)	172-187
*CULVERT SECTIONS (CS)	188-197
*CROSS SECTIONS (XS)	1-53
ENTRANCE PROFILES (XS)	54-63
A5328 BRIDGE SHEETS	1-4

* INDICATES SHEET SUBMITTED TO MSD

LENGTH OF PROJECT

ROUTE D

BEGINNING OF PROJECT	STA. 278+90.00
END OF PROJECT	STA. 173+00.00
APPARENT LENGTH	-10590.00 FEET

EQUATIONS AND EXCEPTIONS:

280+16.54 BK = 280+18.68 AH (+2.14')

283+86.55 BK = 99+41.60 AH (-18444.95')

105+16.10 BK = 105+14.23 AH (-1.87')

114+94.10 BK = 114+94.14 AH (+0.04')

117+62.71 BK = 117+64.11 AH (+1.4')

131+59.64 BK = 131+52.00 AH (-7.64')

167+40.86 BK = 167+40.56 AH (-0.30')

TOTAL CORRECTIONS	(-) 18451.18 FEET
NET LENGTH OF PROJECT	7861.18 FEET
STATE LENGTH	1.49 MILES

WATER QUALITY/QUANTITY

1. WATER QUALITY FOR THIS PROJECT FALLS UNDER MODOT TS4 PERMIT.

2. STORMWATER QUANTITY REQUIREMENTS NOT REQUIRED FOR DIFFERENTIAL LESS THAN 2 CFS PER MSD 4.060.01. THE PROJECT RUNOFF DIFFERENTIAL IS -4.90 CFS.

RUNOFF DIFFERENTIAL BREAKDOWN:

RDP NE BRANCH AT PENNSYLVANIA:	-0.55 CFS
RDP NE BRANCH AT FERGUSON:	-0.99 CFS
RDP ENGELHOLM CREEK LP #1:	-1.82 CFS
RDP ENGELHOLM CREEK LP #2:	-1.00 CFS
HODIAMONT CITY WATERSHED:	-0.54 CFS

FOR INFORMATION ONLY:
ESTIMATED DISTURBED AREA = 5.6 ACRES

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	1

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

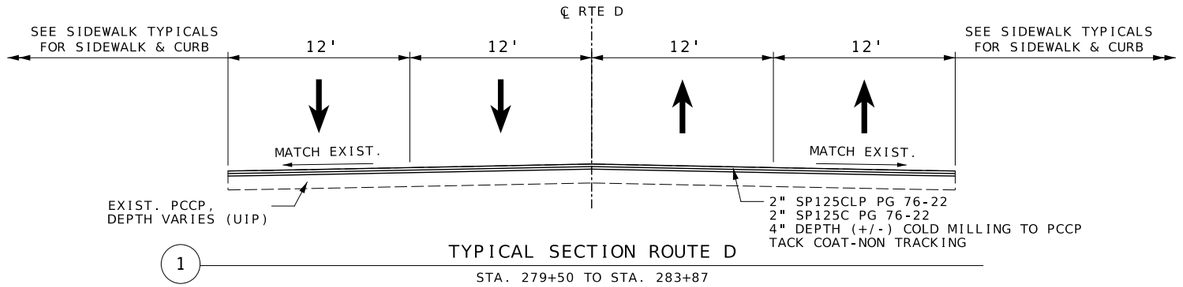
BRIDGE NO.

DESCRIPTION	DATE

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

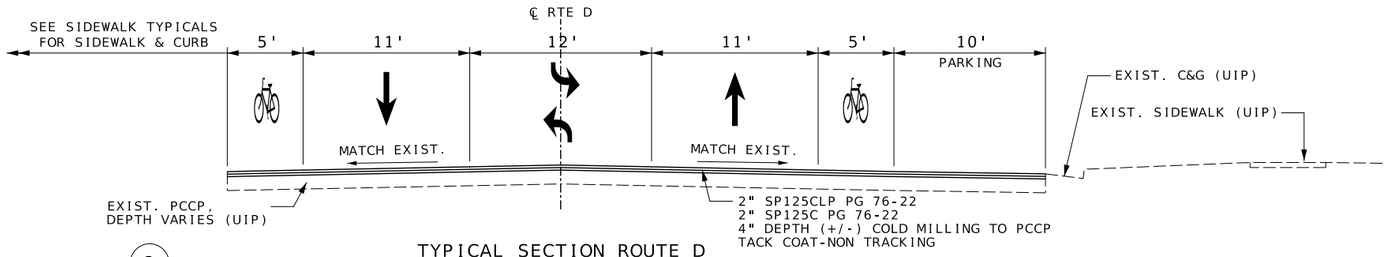
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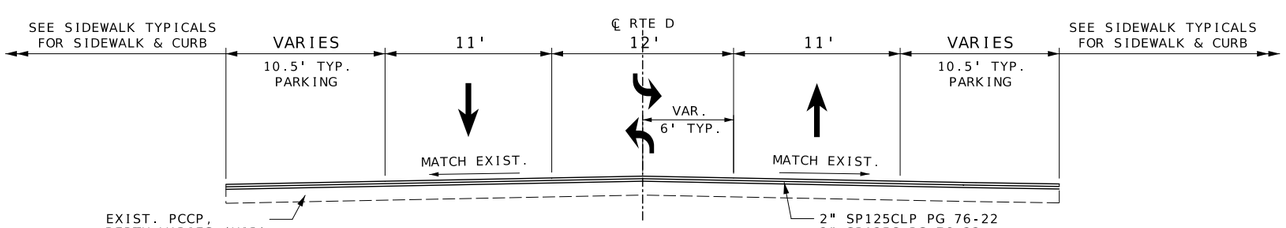
1 TYPICAL SECTION ROUTE D

STA. 279+50 TO STA. 283+87



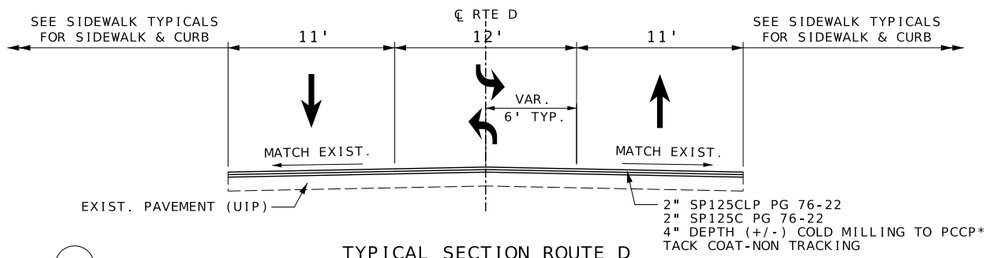
2 TYPICAL SECTION ROUTE D

STA. 283+87 (99+42) TO STA. 116+15



3 TYPICAL SECTION ROUTE D

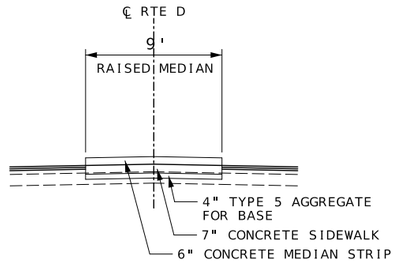
STA. 116+15 TO STA. 127+96
STA. 155+88 TO STA. 168+52



4 TYPICAL SECTION ROUTE D

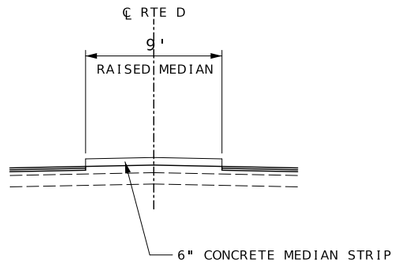
STA. 127+96 TO STA. 140+44
STA. 153+22 TO STA. 155+88
STA. 168+52 TO STA. 172+52

*STA. 139+50 TO STA. 155+75 EX. PAVEMENT IS FULL DEPTH ASPHALT



M1 TYPICAL CONCRETE MEDIAN STRIP

STA. 103+41 TO STA. 104+03
STA. 111+71 TO STA. 112+16
STA. 130+24 TO STA. 130+75
STA. 158+75 TO STA. 159+23
STA. 166+46 TO STA. 166+75



M2 TYPICAL CONCRETE MEDIAN STRIP

STA. 138+55 TO STA. 139+43
(SEE SPECIAL SHEETS FOR PLOWABLE MEDIAN END)

APPLICATION RATES	
SP125CLP W/PG 76-22	1.927 TON/C.Y.
SP125C W/PG 76-22	1.927 TON/C.Y.
TACK COAT (COLDMILL)	0.10 GAL/S.Y.
TACK COAT (LIFT)	0.05 GAL/S.Y.

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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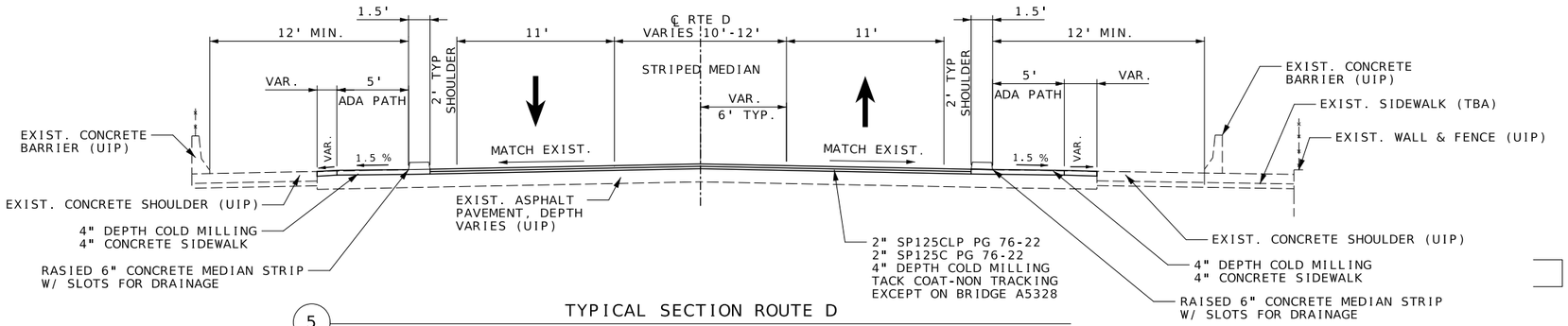
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ROUTE D

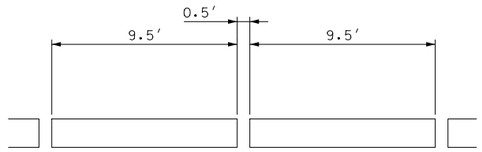
TYPICAL SECTIONS
1 OF 4

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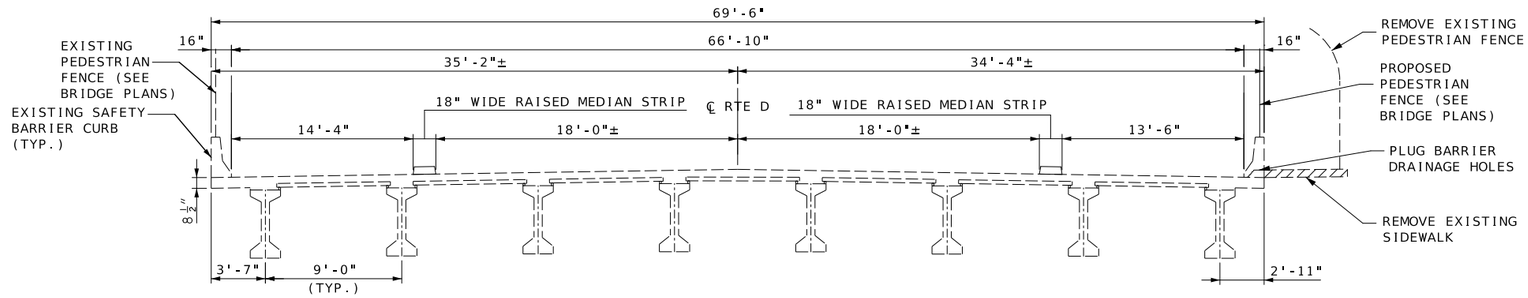


5 TYPICAL SECTION ROUTE D

STA. 140+44 TO STA. 144+42
STA. 150+51 TO STA. 153+22

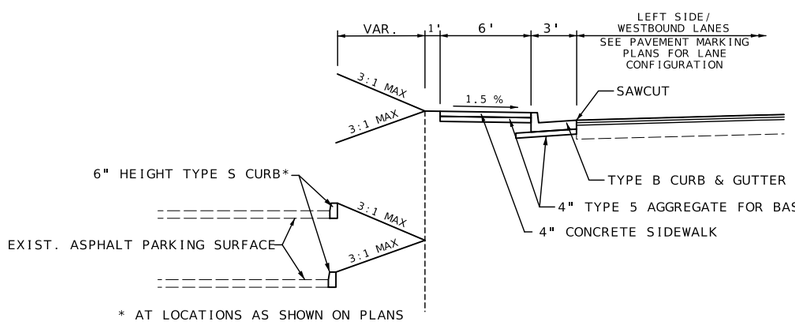


MEDIAN DRAINAGE SLOT DETAIL



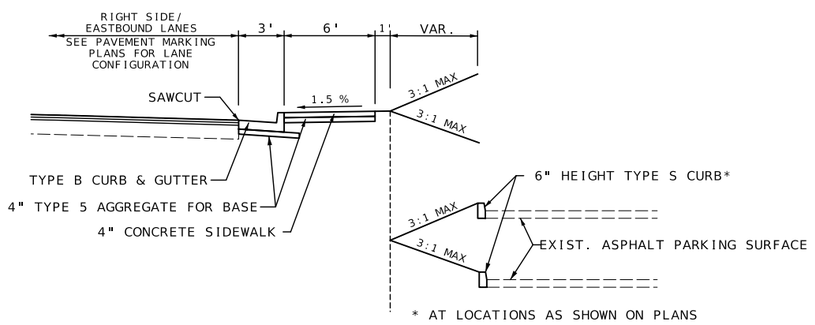
6 TYPICAL SECTION ROUTE D (BRIDGE A5328)

STA. 144+42 TO STA. 150+51



LT1 LEFT END CONDITION

STA. 279+50 TO STA. 280+03
STA. 281+72 TO STA. 282+28



RT1 RIGHT END CONDITION

STA. 279+50 TO STA. 279+99
STA. 139+16 TO STA. 140+12
STA. 157+31 TO STA. 160+74
STA. 164+42 TO STA. 170+82

NOTE: SEE PLANS FOR SLOPE PROTECTION LOCATIONS. 4" CONCRETE SLOPE PROTECTION PLACED OVER 4" TYPE 5 AGGREGATE BASE.

SEE PLANS FOR 7" SIDEWALK LOCATIONS.

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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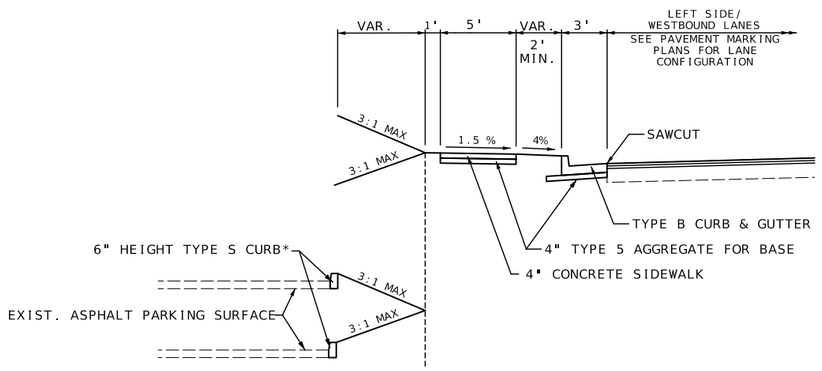
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ROUTE D

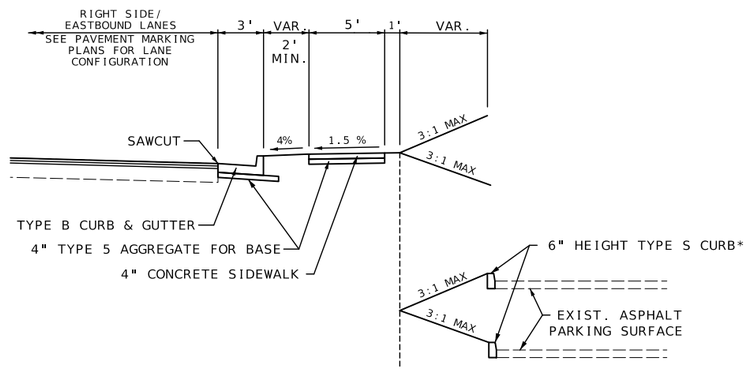
TYPICAL SECTIONS
2 OF 4



* AT LOCATIONS AS SHOWN ON PLANS

LT2 — LEFT END CONDITION

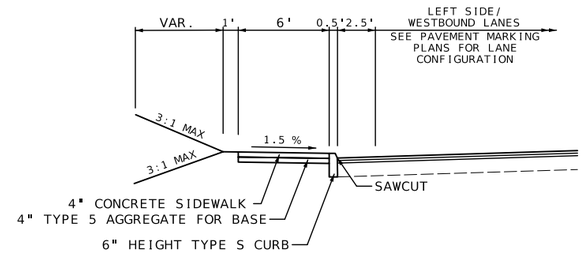
STA. 283+87 (99+42) TO STA. 103+09
STA. 107+06 TO STA. 112+97
STA. 128+61 TO STA. 134+05
STA. 135+73 TO STA. 140+44
STA. 153+38 TO STA. 155+88
STA. 166+55 TO STA. 168+82



* AT LOCATIONS AS SHOWN ON PLANS

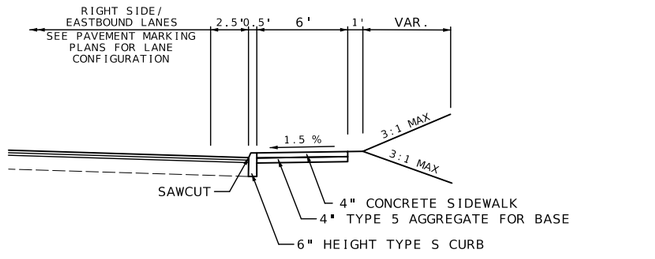
RT2 — RIGHT END CONDITION

STA. 279+99 TO STA. 280+60
STA. 281+98 TO STA. 282+28
STA. 126+69 TO STA. 134+89
STA. 153+22 TO STA. 157+31
STA. 170+82 TO STA. 172+37



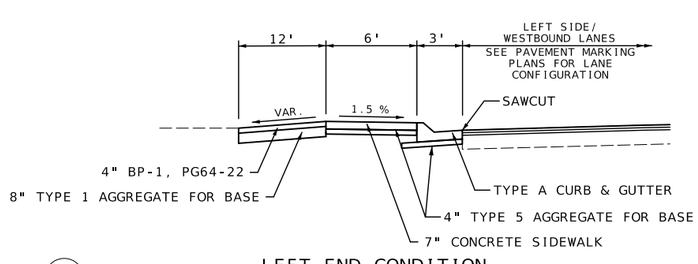
LT3 — LEFT END CONDITION

STA. 282+86 TO STA. 283+87
STA. 120+06 TO STA. 128+61
STA. 155+88 TO STA. 166+55
STA. 169+39 TO STA. 169+86



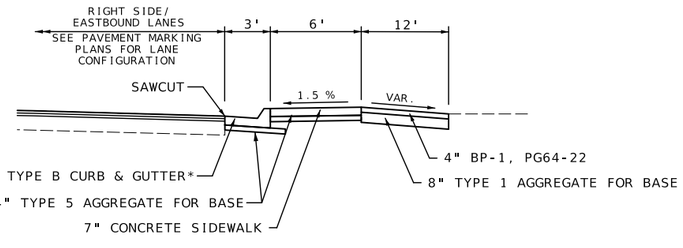
RT3 — RIGHT END CONDITION

STA. 140+12 TO STA. 140+58
STA. 160+74 TO STA. 161+80
STA. 163+13 TO STA. 164+42



LT4 — LEFT END CONDITION

STA. 280+03 TO STA. 281+72



RT4 — RIGHT END CONDITION

STA. 134+89 TO STA. 139+16

*TYPE A STA. 135+76 TO STA. 137+22

NOTE: SEE PLANS FOR SLOPE PROTECTION LOCATIONS. 4" CONCRETE SLOPE PROTECTION PLACED OVER 4" TYPE 5 AGGREGATE BASE.

SEE PLANS FOR 7" SIDEWALK LOCATIONS.

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

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CONTRACT ID.
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BRIDGE NO.
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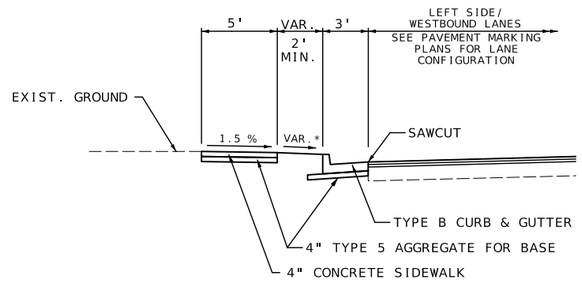
DESCRIPTION	DATE
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ROUTE D
TYPICAL SECTIONS
3 OF 4

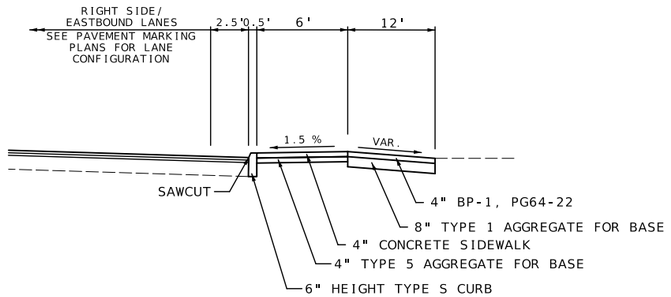
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LT5 — LEFT END CONDITION

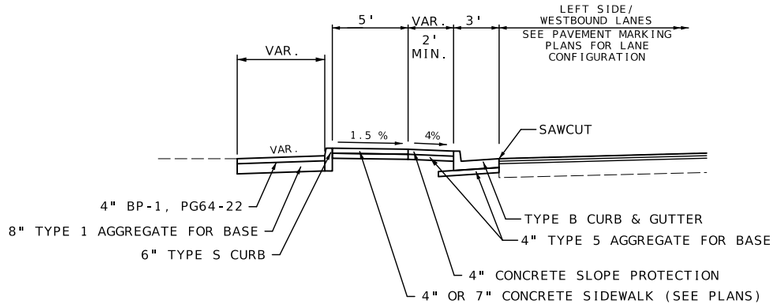
STA. 112+97 TO STA. 114+39
STA. 134+05 TO STA. 135+73 (SWALE)
STA. 168+82 TO STA. 169+87 (SWALE)

*DRAINAGE SWALE WITH MAX 3:1 SLOPES AT STATIONS INDICATED



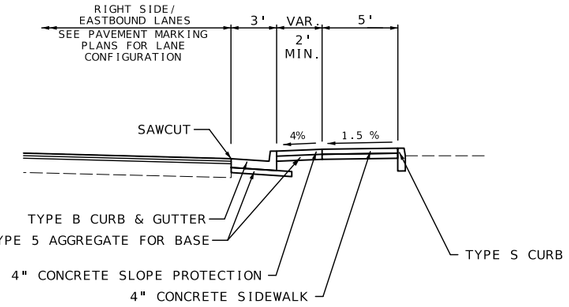
RT5 — RIGHT END CONDITION

STA. 161+80 TO STA. 163+13



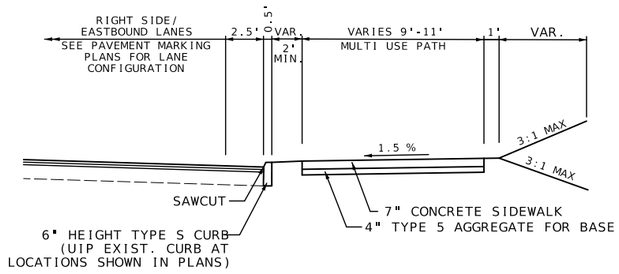
LT6 — LEFT END CONDITION

STA. 103+09 TO STA. 107+06



RT2 — LEFT END CONDITION

STA. 280+60 TO STA. 281+98



RT7 — RIGHT END CONDITION

STA. 116+75 TO STA. 126+69

NOTE: SEE PLANS FOR SLOPE PROTECTION LOCATIONS. 4" CONCRETE SLOPE PROTECTION PLACED OVER 4" TYPE 5 AGGREGATE BASE.

SEE PLANS FOR 7" SIDEWALK LOCATIONS.

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ENGINEERING CORPORATION - 000631

ROUTE D

TYPICAL SECTIONS
4 OF 4

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
1-16	RTE D	278+90.00	173+00.00	LT				1	LITTER REMOVAL AND DISPOSAL FOR PROJECT. SEE JSP.
1	RTE D	279+50.00	279+88.86	LT	39	193.05	21.45		ASPHALT SIDEWALK
1	RTE D	279+50.00	280+25.94	RT	74	469.84	52.20		CONCRETE SIDEWALK
1	RTE D	279+50.00	281+00.89	RT	148	1339.14	148.79		ASPHALT ROADWAY
1	RTE D	279+50.00	279+76.51	LT	27				CURB & GUTTER
1	RTE D	279+50.00	280+44.56	RT	98				CURB
1	RTE D	279+83.57	280+25.01	LT	39	184.80	20.53		PAVED APPROACH, INCLUDING ANY CURB
1	RTE D	280+25.01	280+51.21	LT	26				CURB
1	RTE D	280+79.15	280+98.86	RT	20	178.77	19.86		CONCRETE SIDEWALK
1	RTE D	280+86.16	280+98.33	RT	13				CURB
1-2	RTE D	279+76.51	282+28.03	LT	251	4298.41	477.60		ASPHALT PARKING LOT
1-2	RTE D	280+84.66	282+23.32	RT	139	494.70	54.97		ASPHALT PARKING LOT
1-2	RTE D	280+84.66	282+23.32	RT				5	BOLLARDS
1-2	RTE D	280+95.30	282+23.75	RT	128	1279.14	142.13		CONCRETE SHOULDER
2	RTE D	282+06.15	282+28.03	RT	22	63.44	7.05		ASPHALT SHOULDER
2	RTE D	282+13.21	282+35.56	RT	22	160.94	17.88		CONCRETE SIDEWALK
2	RTE D	282+13.21	282+29.03	RT	20				CURB
2	RTE D	282+66.14	282+85.11	LT	19	86.17	9.57		ASPHALT SIDEWALK
2	RTE D	282+68.69	283+26.60	LT	88				CURB
2	RTE D	282+85.73	283+28.51	LT	60	265.26	29.47		ASPHALT ROADWAY
2	RTE D	282+86.37	282+98.81	RT	12	163.23	18.14		CONCRETE SIDEWALK
2	RTE D	283+00.39	283+08.39	RT	8	19.24	2.14		ASPHALT ROADWAY
2	RTE D	283+00.39	283+08.39	RT	8				CURB & GUTTER
2	RTE D	283+03.27	283+24.11	LT	34	252.23	28.03		CONCRETE SIDEWALK
2	RTE D	283+44.36	283+49.79	RT	5	60.67	6.74		CONCRETE SIDEWALK
2	RTE D	283+75.67	100+26.66	LT	129				CURB
2	RTE D	283+79.20	100+51.25	LT	145	837.83	93.09		CONCRETE SIDEWALK
2	RTE D	100+28.15	100+50.75	LT	23	118.73	13.19		ASPHALT SHOULDER
2	RTE D	100+46.26	100+85.92	LT	40	230.27	25.59		PAVED APPROACH, INCLUDING ANY CURB
2	RTE D	100+91.25	101+23.25	LT	32				CURB & GUTTER
2-3	RTE D	100+81.75	102+75.09	LT	193	964.94	107.22		CONCRETE SIDEWALK
2-3	RTE D	100+82.29	104+33.32	RT	351	2725.92	302.88		ASPHALT ROADWAY
2-3	RTE D	101+01.79	102+74.38	LT	173	1268.66	140.96		ASPHALT PARKING LOT
2-5	RTE D	283+76.09	114+55.76	LT	1680	14689.86	1632.21		ASPHALT ROADWAY
3	RTE D	102+61.97	102+75.22	LT	19				CURB
3	RTE D	103+02.65	105+76.57	LT	274	1377.62	153.07		CONCRETE SIDEWALK
3	RTE D	103+04.93	106+15.68	LT	311	4074.51	452.72		ASPHALT PARKING LOT
3	RTE D	103+09.10	106+52.41	LT	346				CURB
3	RTE D	103+13.54	104+31.14	RT	121				CURB & GUTTER
3	RTE D	103+40.98	104+02.93	CL	62	524.83	58.31		ASPHALT ROADWAY
3	RTE D	105+34.40	105+42.40	RT	8	65.00			ASPHALT ROADWAY
3	RTE D	105+34.40	105+42.40	RT	8				CURB & GUTTER
3	RTE D	106+11.90	106+73.65	LT	62	1057.62	117.51		CONCRETE PARKING LOT
3-4	RTE D	107+01.00	108+93.09	LT	192	3282.15	364.68		CONCRETE PARKING LOT
3-4	RTE D	107+03.43	111+55.55	LT	459				GUTTER
4	RTE D	108+85.33	111+13.81	LT	228	1140.50	126.72		CONCRETE SIDEWALK
4	RTE D	108+87.52	111+13.24	LT	226	2777.44	308.60		ASPHALT PARKING LOT
4	RTE D	109+44.95	109+52.95	RT	8	64.17	7.13		ASPHALT ROADWAY
4	RTE D	109+44.95	109+52.95	RT	8				CURB & GUTTER
4	RTE D	111+00.45	111+55.55	LT	55	689.13	76.57		ASPHALT ROADWAY
4	RTE D	111+00.45	111+13.81	LT	19				CURB
4	RTE D	111+43.33	112+34.09	LT	91	1408.69	156.52		CONCRETE SIDEWALK
4	RTE D	111+47.03	112+27.28	LT	82				CURB
4	RTE D	111+47.92	112+17.21	RT	69	289.06	32.12		ASPHALT ROADWAY
4	RTE D	111+76.24	111+91.24	RT	15				CURB & GUTTER
4	RTE D	111+71.17	112+15.70	CL	45	368.11			ASPHALT ROADWAY

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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SL	3

COUNTY
ST. LOUIS

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J6S3215B

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ROUTE D

QUANTITY SHEET
1 OF 32

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
4	RTE D	112+27.28	112+63.27	LT	36	403.23	44.80		PAVED APPROACH, INCLUDING ANY CURB
4-5	RTE D	112+54.98	112+91.23	LT	36	553.48	61.50		CONCRETE SIDEWALK
4-5	RTE D	112+63.27	112+81.78	LT	19				CURB
5	RTE D	112+81.78	113+10.64	LT	29	237.90	26.43		PAVED APPROACH, INCLUDING ANY CURB
5	RTE D	113+01.86	114+34.70	LT	133	1078.86	119.87		CONCRETE SIDEWALK
5	RTE D	113+10.64	114+24.07	LT	113				CURB
5	RTE D	114+24.07	114+53.41	LT	29	213.30	23.70		PAVED APPROACH, INCLUDING ANY CURB
5	RTE D	114+53.41	115+46.85	LT	93				CURB
5	RTE D	114+43.81	114+53.69	LT	10	135.90	15.10		CONCRETE SIDEWALK
5	RTE D	114+93.30	115+76.60	LT	102				CURB
5	RTE D	114+99.84	115+75.57	LT	76	568.45	63.16		CONCRETE SIDEWALK
5	RTE D	115+23.37	115+69.31	LT	46	50.23	5.58		ASPHALT ROADWAY
5	RTE D	115+82.67	115+94.07	RT	11	64.12	7.12		CONCRETE SIDEWALK
5	RTE D	116+21.26	116+27.26	LT	6	25.38	2.82		CONCRETE SIDEWALK
5	RTE D	116+75.19	116+96.15	LT	21	129.47	14.39		ASPHALT ROADWAY
5	RTE D	116+75.19	117+02.27	LT	31				CURB & GUTTER
5	RTE D	116+86.88	117+10.30	RT	11				CURB (SPLIT WITH GRG REMOVALS)
5-7	RTE D	116+73.37	126+43.64	RT	975	2647.87	294.21		CONCRETE SIDEWALK (SPLIT WITH GRG REMOVALS)
6	RTE D	119+53.74	119+89.77	LT	45				CURB
6	RTE D	119+72.33	119+93.79	RT	21	124.32	13.81		ASPHALT ROADWAY
6	RTE D	119+72.33	120+63.24	RT	48				CURB (SPLIT WITH GRG REMOVALS)
6-7	RTE D	120+16.11	124+12.16	LT	396	2018.95	224.33		CONCRETE SIDEWALK
6-7	RTE D	119+44.00	124+21.98	LT	478	2124.86	236.10		ASPHALT ROADWAY
6-7	RTE D	120+21.51	124+19.62	LT	398	3777.06	419.67		ASPHALT PARKING LOT
6-7	RTE D	120+28.42	124+12.09	LT	384				GUTTER
6-7	RTE D	120+49.30	126+39.57	RT	295				GUTTER (SPLIT WITH GRG REMOVALS)
6-7	RTE D	120+63.45	126+43.39	RT	580	3129.88	347.76		ASPHALT PARKING LOT (SPLIT WITH GRG REMOVALS)
6-7	RTE D	120+30.75	126+60.59	RT	630	1919.47	213.27		ASPHALT ROADWAY (SPLIT WITH GRG REMOVALS)
7	RTE D	124+41.60	124+47.74	LT	6				CURB
7-8	RTE D	124+40.79	129+32.43	LT	492	5896.60	655.18		ASPHALT PARKING LOT
7-8	RTE D	124+47.74	129+22.93	LT	475				GUTTER
7-8	RTE D	126+84.09	129+41.57	RT	257	1407.61	156.40		CONCRETE SIDEWALK
7-8	RTE D	126+84.29	129+29.07	RT	245	2172.55	241.39		ASPHALT PARKING LOT
7-8	RTE D	126+86.92	129+33.82	RT	247				GUTTER
7-10	RTE D	126+30.61	139+93.92	RT	1363	21663.40	2407.04		ASPHALT ROADWAY
7-10	RTE D	124+44.09	140+43.55	LT	1599	10475.03	1163.89		ASPHALT ROADWAY
8	RTE D	129+22.93	129+82.04	LT	59	759.51	84.39		PAVED APPROACH, INCLUDING ANY CURB
8	RTE D	129+67.35	132+25.23	RT	258	3118.80	346.53		ASPHALT PARKING LOT
8	RTE D	129+67.50	132+17.59	RT	261				GUTTER
8	RTE D	129+75.30	130+22.90	LT	48	161.73	17.97		CONCRETE SIDEWALK
8	RTE D	129+82.02	131+34.67	LT	153				GUTTER
8	RTE D	130+24.01	130+74.80	CL	51	424.41	47.16		ASPHALT ROADWAY
8	RTE D	131+34.64	132+04.92	LT	70	1185.59	131.73		PAVED APPROACH, INCLUDING ANY CURB
8	RTE D	131+97.39	132+20.44	LT	23	338.19	37.58		ASPHALT PARKING LOT
8	RTE D	132+04.60	132+17.20	LT	17				CURB
8	RTE D	132+38.12	132+49.31	LT	19				CURB
8-9	RTE D	132+38.08	135+84.91	LT	347	2280.70	253.41		ASPHALT PARKING LOT
8-9	RTE D	132+49.31	135+84.91	LT	336				GUTTER
8-9	RTE D	132+52.39	133+85.90	RT	134	1561.43	173.49		ASPHALT PARKING LOT
8-10	RTE D	132+50.23	139+58.27	RT	702				GUTTER
9	RTE D	133+33.50	133+39.67	LT	11	48.82	5.42		CONCRETE SIDEWALK
9	RTE D	133+77.12	136+79.69	LT	303	1536.14	170.68		CONCRETE SIDEWALK
9	RTE D	135+84.54	136+65.32	LT	81				CURB & GUTTER
9	RTE D	136+65.14	137+44.90	LT	80	807.18	89.69		PAVED APPROACH, INCLUDING ANY CURB
9-10	RTE D	137+32.56	140+26.42	LT	294	1613.02	179.22		CONCRETE SIDEWALK
9-10	RTE D	137+44.90	138+98.07	LT	153				CURB & GUTTER

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ROUTE D

QUANTITY SHEET
2 OF 32

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
10	RTE D	138+58.91	139+70.60	RT	112	536.25	59.58		ASPHALT PARKING LOT
10	RTE D	138+98.07	140+43.54	LT	145				CURB
10	RTE D	138+99.12	140+43.55	LT	144	958.93	106.55		CONCRETE SHOULDER
10	RTE D	139+58.27	139+91.52	RT	43				CURB
10	RTE D	140+32.43	140+58.84	RT	26	363.96	40.44		ASPHALT ROADWAY
10	RTE D	140+32.43	140+58.84	RT	26	196.14	21.79		CONCRETE SIDEWALK
10	RTE D	140+36.57	140+46.37	RT	12				CURB
12	RTE D	150+21.77	150+31.77	LT/RT	12	339.30	37.70		CONCRETE APPROACH PAVEMENT
12	RTE D	153+19.07	153+56.74	LT	38	187.98	20.89		PAVED APPROACH, INCLUDING ANY CURB
12	RTE D	153+50.41	154+00.96	LT	51	246.78	27.42		CONCRETE SIDEWALK
12	RTE D	153+56.40	153+91.23	LT	35				CURB
12	RTE D	153+91.23	154+18.65	LT	27	107.98	12.00		PAVED APPROACH, INCLUDING ANY CURB
12-13	RTE D	153+15.15	155+53.39	LT	238	2784.26	309.36		ASPHALT ROADWAY
12-13	RTE D	153+15.15	156+28.74	LT	314	3171.57	352.40		CONCRETE SHOULDER
12-13	RTE D	153+22.43	155+61.35	RT	239	1909.02	212.11		CONCRETE SHOULDER
12-13	RTE D	153+22.43	155+70.71	RT	248	1246.27	138.47		CONCRETE SIDEWALK
12-13	RTE D	153+23.79	155+73.97	RT	256				CURB
12-13	RTE D	154+11.22	154+38.67	LT	27	110.86	12.32		CONCRETE SIDEWALK
12-13	RTE D	154+18.65	154+29.99	LT	11				CURB
12-16	RTE D	153+22.43	172+93.21	RT	1971	17793.66	1977.07		ASPHALT ROADWAY
13	RTE D	154+29.81	155+18.51	LT	89	481.25	53.47		PAVED APPROACH, INCLUDING ANY CURB
13	RTE D	155+15.23	155+69.63	LT	54	380.62	42.29		CONCRETE SIDEWALK
13	RTE D	155+18.90	155+54.32	LT	35				CURB
13	RTE D	156+04.37	156+80.75	LT	89				CURB & GUTTER
13	RTE D	156+05.33	156+17.48	LT	12	112.11	12.46		CONCRETE SIDEWALK
13	RTE D	156+08.34	157+78.80	RT	170	766.74	85.19		CONCRETE SIDEWALK
13	RTE D	156+11.06	157+02.65	RT	92				CURB & GUTTER
13	RTE D	156+26.49	156+89.81	LT	63	250.83	27.87		CONCRETE SIDEWALK
13	RTE D	156+80.71	157+16.11	LT	35	153.60	17.07		PAVED APPROACH, INCLUDING ANY CURB
13	RTE D	157+08.60	157+96.50	LT	88	343.07	38.12		CONCRETE SIDEWALK
13	RTE D	157+16.11	157+91.12	LT	75				CURB & GUTTER
13	RTE D	157+91.12	158+13.66	LT	23	83.62	9.29		PAVED APPROACH, INCLUDING ANY CURB
13	RTE D	158+13.66	159+00.36	LT	87				CURB & GUTTER
13	RTE D	158+75.27	159+22.96	CL	48	400.27	44.47		ASPHALT ROADWAY
13-14	RTE D	156+08.52	160+55.51	LT	447	4387.25	487.47		ASPHALT ROADWAY
13-14	RTE D	156+12.03	161+14.25	RT	502	5953.69	661.52		ASPHALT PARKING LOT
13-14	RTE D	156+94.08	161+06.93	RT	413				GUTTER
13-14	RTE D	158+11.05	160+64.17	LT	253	1076.68	119.63		CONCRETE SIDEWALK
13-14	RTE D	158+54.54	161+17.68	LT	263	2342.98	260.33		ASPHALT PARKING LOT
13-14	RTE D	159+00.05	161+12.64	LT	213				GUTTER
14	RTE D	159+70.75	160+75.30	RT	105	515.89	57.32		CONCRETE SIDEWALK
14	RTE D	161+06.93	161+12.94	RT	10				CURB
14	RTE D	161+51.80	161+58.00	RT	6	142.79	15.87		CONCRETE SIDEWALK
14	RTE D	161+52.07	162+67.95	LT	116	759.77	84.42		ASPHALT PARKING LOT
14	RTE D	161+57.80	161+79.59	RT	22	407.64	45.29		ASPHALT PARKING LOT
14	RTE D	163+71.94	164+60.96	RT	89	755.38	83.93		ASPHALT PARKING LOT
14	RTE D	164+14.27	164+30.08	RT	16	180.49	20.05		PAVED APPROACH, INCLUDING ANY CURB
14-15	RTE D	160+66.64	168+42.79	LT	776	5101.74	566.86		ASPHALT ROADWAY
14-15	RTE D	161+39.43	168+23.38	LT	684				GUTTER
14-15	RTE D	161+53.37	168+33.69	RT	688				GUTTER
14-15	RTE D	162+67.95	167+39.85	LT	472	2480.87	275.65		ASPHALT SIDEWALK
14-15	RTE D	164+49.26	164+84.25	RT	35	379.73	42.19		PAVED APPROACH, INCLUDING ANY CURB
14-15	RTE D	164+60.95	166+21.29	RT	160	626.89	69.65		CONCRETE SIDEWALK
15	RTE D	164+80.10	166+21.71	RT	142	1529.76	169.97		ASPHALT PARKING LOT
15	RTE D	165+50.96	165+86.12	RT	35				RETAINING WALL
15	RTE D	166+18.31	166+31.57	RT	13	136.70	15.19		PAVED APPROACH, INCLUDING ANY CURB

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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SL	3

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J6S3215B

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ROUTE D

QUANTITY SHEET
3 OF 32

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
15	RTE D	166+29.08	166+73.41	RT	44	217.37	24.15		CONCRETE SIDEWALK
15	RTE D	166+46.13	166+75.04	CL	29	231.23	25.69		ASPHALT ROADWAY
15	RTE D	167+38.64	167+66.06	LT	27	159.19	17.69		PAVED APPROACH, INCLUDING ANY CURB
15	RTE D	167+64.67	167+95.54	LT	31	191.29	21.25		ASPHALT SIDEWALK
15	RTE D	167+93.59	168+21.99	LT	28	161.30	17.92		PAVED APPROACH, INCLUDING ANY CURB
15	RTE D	168+00.37	168+39.27	LT	39	187.51	20.83		ASPHALT PARKING LOT
15	RTE D	168+19.60	168+39.89	LT	20	183.43	20.38		ASPHALT SIDEWALK
15	RTE D	168+23.38	168+39.81	LT	24				CURB & GUTTER
15	RTE D	168+34.09	168+41.09	RT	11				CURB
15	RTE D	168+42.08	168+82.73	LT	41	204.54	22.73		ASPHALT ROADWAY
15-16	RTE D	168+66.10	170+91.41	LT	225	1555.51	172.83		ASPHALT ROADWAY
15-16	RTE D	168+72.87	170+13.27	RT	140	1611.18	179.02		ASPHALT PARKING LOT
15-16	RTE D	168+72.87	172+35.66	RT	363	1943.91	215.99		CONCRETE SIDEWALK
15-16	RTE D	168+73.42	170+11.48	LT	154				CURB
15-16	RTE D	168+79.19	170+13.99	LT	135	2068.20	229.80		ASPHALT PARKING LOT
15-16	RTE D	169+93.48	170+08.02	RT	15				CURB
16	RTE D	170+08.02	170+34.78	RT	27	192.26	21.36		PAVED APPROACH, INCLUDING ANY CURB
16	RTE D	170+34.78	170+40.95	RT	7				CURB
16	RTE D	170+26.27	170+45.66	RT	19	167.94	18.66		ASPHALT PARKING LOT
16	RTE D	170+36.01		RT				1	LICENSE PLATE READER EQUIPMENT AND POST
16	RTE D	170+40.95	170+64.37	RT	23	158.95	17.66		PAVED APPROACH, INCLUDING ANY CURB
16	RTE D	170+52.81	170+87.07	LT	34				CURB
16	RTE D	170+64.37	170+69.67	RT	5				CURB
16	RTE D	170+59.39	171+29.30	RT	70	493.13	54.79		ASPHALT PARKING LOT
16	RTE D	170+93.71	171+20.85	RT	27				CURB
16	RTE D	171+20.85	171+50.21	RT	29	120.45	13.38		PAVED APPROACH, INCLUDING ANY CURB
16	RTE D	171+42.95	171+66.35	RT	23	83.72	9.30		ASPHALT PARKING LOT
16	RTE D	171+50.21	171+61.98	RT	12				CURB & GUTTER
16	RTE D	171+61.98	171+84.70	RT	23	90.42	10.05		PAVED APPROACH, INCLUDING ANY CURB
16	RTE D	171+80.23	171+88.86	RT	9	20.86	2.32		ASPHALT PARKING LOT
16	RTE D	171+84.70	172+20.03	RT	35	122.39	13.60		PAVED APPROACH, INCLUDING ANY CURB
16	RTE D	172+15.48	172+25.22	RT	10	22.62	2.51		ASPHALT PARKING LOT
16	RTE D	172+20.03	172+45.05	RT	25	68.12	7.57		PAVED APPROACH, INCLUDING ANY CURB
16	RTE D	172+35.66	172+51.57	RT	16	66.57	7.40		ASPHALT PARKING LOT

DU SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
1	RTE D	280+26.35	280+34.89	RT	8				12" PIPE
1	RTE D	280+26.83		RT				1	MH, MSD#16J3-044D
1	RTE D	280+34.89		RT				1	GRATE INLET, MSD#16J3-038D
2	RTE D	283+59.59		RT				1	CURB INLET
2	RTE D	100+99.41		LT				1	CURB INLET, MSD#16J3-034D
2	RTE D	100+99.41		LT	11				36" PIPE
3	RTE D	104+22.20		LT				1	ABANDONED WATER VALVE
3	RTE D	104+28.24		LT				1	ABANDONED WATER VALVE
3	RTE D	106+56.44		LT				1	GRATE INLET
3	RTE D	106+74.15		LT				1	ABANDONED WATER VALVE
4	RTE D	108+65.94		LT				1	ABANDONED WATER VALVE
4	RTE D	109+82.85		LT				1	ABANDONED WATER VALVE
4	RTE D	110+70.50		LT				1	ABANDONED WATER VALVE
4	RTE D	111+16.31		LT				1	ABANDONED WATER VALVE
4	RTE D	111+32.87		RT				1	INLET
5	RTE D	114+20.00		LT				1	ABANDONED WATER VALVE
6	RTE D	119+90.60	120+18.90	LT	29				24" PIPE
6	RTE D	120+18.90		LT				1	CURB INLET, MSD#17J2-063C
6	RTE D	120+18.90	120+32.99	LT	18				18" PIPE

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ROUTE D

QUANTITY SHEET
4 OF 32

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

DU SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
6	RTE D	121+97.83		LT				1	ABANDONED WATER VALVE
6	RTE D	123+23.93		RT				1	ABANDONED WATER VALVE
7	RTE D	124+13.96		LT				1	CURB INLET, MSD#17H1-054C
7	RTE D	124+13.96	124+17.51	LT	14				12" PIPE
7	RTE D	124+57.30		LT				1	ABANDONED WATER VALVE
7	RTE D	124+58.91		RT				1	ABANDONED WATER VALVE
7	RTE D	125+41.56		RT				1	ABANDONED WATER VALVE
7	RTE D	126+49.19		RT				1	ABANDONED WATER VALVE
8	RTE D	129+31.81		LT				1	ABANDONED WATER VALVE
8	RTE D	129+38.52		LT				1	ABANDONED WATER VALVE
8	RTE D	129+42.10		LT				1	ABANDONED WATER VALVE
8	RTE D	132+21.31		LT				1	ABANDONED WATER VALVE
8	RTE D	132+26.57		LT				1	ABANDONED WATER VALVE
8	RTE D	133+15.85		LT				1	ABANDONED WATER VALVE
9	RTE D	138+03.81		LT				1	ABANDONED WATER VALVE
10	RTE D	138+87.22	139+57.25	RT				1	SLOTTED DRAIN
10	RTE D	139+57.25	139+94.44	RT	46				24" PIPE
10	RTE D	139+69.61		LT				1	ABANDONED WATER VALVE
10	RTE D	139+74.08		LT				1	ABANDONED WATER VALVE
10	RTE D	139+94.41		RT				1	INLET, MSD#17H1-067D
10	RTE D	140+07.87		LT				1	GRATE INLET, MSD#17H1-072D
10	RTE D	140+07.87	140+42.48	LT	34				15" PIPE
10	RTE D	140+13.95		LT				1	ABANDONED WATER VALVE
10	RTE D	140+42.28		LT				1	GRATE INLET, MSD#17H1-074D
10	RTE D	140+52.16		RT				1	GRATE INLET, MSD#17H1-068D
13	RTE D	156+36.98		RT				1	GRATE INLET, MSD#17H1-093D
13	RTE D	159+45.43		LT				1	STORM SLOTTED DRAIN, MSD#17H1-095D
14	RTE D	161+22.61		RT				1	ABANDONED WATER VALVE
14	RTE D	161+67.11		LT				1	ABANDONED WATER VALVE
14	RTE D	162+48.22		LT				1	ABANDONED WATER VALVE
14	RTE D	162+78.64		LT				1	ABANDONED WATER VALVE
14	RTE D	164+27.07		LT				1	ABANDONED WATER VALVE
15	RTE D	166+41.35		LT				1	ABANDONED WATER VALVE
15	RTE D	166+46.03		RT				1	STAIRS WITHIN RIGHT-OF-WAY
15	RTE D	168+28.35		LT				1	CURB INLET, MSD#17H2-038S
15	RTE D	168+32.77		LT				1	CURB INLET
15	RTE D	168+32.77	170+89.54	LT	257				18" PIPE
15	RTE D	169+71.45		LT				1	ABANDONED WATER VALVE
SIGNAL SHEET	**ROADWAY**	**STATION (FROM)**	**STATION (TO)**	**LOCATION**	**LENGTH (FEET)**	**AREA (SF)**	**AREA (SY)**	**EACH**	**DESCRIPTION OF REMOVAL**
16	RTE D	170+89.40		LT				1	MH, MSD#17H2-029D
2	RTE D	282+92.12		LT				1	SIGNAL POST & MAST ARM
2	RTE D	283+73.85		RT				1	SIGNAL POST & MAST ARM
2	RTE D	99+59.92		LT				1	SIGNAL POST & MAST ARM
2	RTE D	99+69.04		LT				1	PULL BOX
2	RTE D	99+96.69		RT				1	PULL BOX
2	RTE D	99+99.97		RT				1	SIGNAL POST & MAST ARM
2	RTE D	100+07.98		RT				1	SIGNAL CONTROLLER
2	RTE D	100+13.53		RT				1	POWER SUPPLY ON UTILITY POLE
10	RTE D	139+59.92		LT				1	SIGNAL POST & MAST ARM
10	RTE D	139+65.74		LT				1	PULL BOX
10	RTE D	139+86.63		RT				1	POWER SUPPLY
10	RTE D	140+18.50		LT				1	PULL BOX
10	RTE D	140+27.03		LT				1	SIGNAL POST & MAST ARM
10	RTE D	140+47.38		RT				1	SIGNAL POST & MAST ARM
10	RTE D	140+53.97		RT				1	SIGNAL CONTROLLER

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ROUTE D

QUANTITY SHEET
5 OF 32

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

SIGNAL SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
16	RTE D	155+46.54		LT				1	SIGNAL POST & MAST ARM
16	RTE D	155+53.38		LT				1	PULL BOX
16	RTE D	155+58.11		RT				1	POWER SUPPLY
16	RTE D	155+61.56		RT				1	PULL BOX
16	RTE D	155+64.09		RT				1	SIGNAL POST & MAST ARM
16	RTE D	156+26.70		LT				1	SIGNAL POST & MAST ARM
16	RTE D	156+29.68		RT				1	PULL BOX
16	RTE D	156+33.12		LT				1	PULL BOX
16	RTE D	156+39.70		RT				1	SIGNAL POST & MAST ARM
16	RTE D	156+45.51		RT				1	SIGNAL CONTROLLER

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

SIGNING SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
1	RTE D	279+70		LT				1	REMOVE SIGNS AND POST - SIGN NO. 12
1	RTE D	280+82		RT				1	REMOVE SIGN AND POST - SIGN NO. 15
2	RTE D	282+20		RT				1	REMOVE SIGN AND POST - BEGIN RT TURN
2	RTE D	283+21		LT				1	REMOVE SIGN AND POST - YIELD
2	RTE D	283+17		LT				1	REMOVE SIGNS AND POST - SIGN NO. 17
2	RTE D	100+20		RT				1	REMOVE SIGNS AND POST - SIGN NO. 17
2	RTE D	99+85		LT				1	REMOVE SIGN AND POST - YIELD
2	RTE D	100+27		LT				1	REMOVE SIGNS AND POST - SIGN NO. 20
2	RTE D	100+93		LT				1	REMOVE SIGN AND POST - BEGIN RT TURN
3	RTE D	102+70		LT				1	REMOVE SIGN AND POST - SIGN NO. 23
3	RTE D	103+15		RT				1	REMOVE SIGN AND POST - SIGN NO. 24
3	RTE D	106+72		LT				1	REMOVE SIGN AND POST - SIGN NO. 32
4	RTE D	111+10		LT				1	REMOVE SIGN AND POST - SIGN NO. 34
5	RTE D	114+82		LT				1	REMOVE SIGN AND POST - SIGN NO. 41
5	RTE D	115+48		RT				1	REMOVE SIGNS AND POST - BIKE LANE ENDS
6	RTE D	119+89		LT				1	REMOVE SIGN AND POST - SIGN NO. 47
7	RTE D	124+17		LT				1	REMOVE SIGN AND POST - SIGN NO. 49
7	RTE D	125+46		RT				1	REMOVE SIGN AND POST - NO PARKING
7	RTE D	126+44		RT				1	REMOVE SIGN AND POST - SIGN NO. 50
7	RTE D	126+88		RT				1	REMOVE SIGN AND POST - SIGN NO. 52
7	RTE D	128+04		LT				1	REMOVE SIGN AND POST - SIGN NO. 53
8	RTE D	129+33		LT				1	REMOVE SIGN AND POST - SIGN NO. 57
8	RTE D	129+37		RT				1	REMOVE SIGN AND POST - SIGN NO. 56
8	RTE D	129+71		RT				1	REMOVE SIGN NAD POST - SIGN NO. 58
8	RTE D	130+61		LT				1	REMOVE SIGN AND POST - NO PARKING
8	RTE D	132+19		RT				1	REMOVE SIGN AND POST - SIGN NO. 67
8	RTE D	132+53		RT				1	REMOVE SIGN AND POST - SIGN NO. 68
8	RTE D	132+54		LT				1	REMOVE SIGN AND POST - NO PARKING
8	RTE D	133+27		LT				1	REMOVE SIGN AND POST - NO PARKING
10	RTE D	139+04		LT				1	REMOVE SIGNS AND POST - SIGN NO. 72
10	RTE D	140+61		RT				1	REMOVE SIGN AND POST - SIGN NO. 76
13	RTE D	156+21		LT				1	REMOVE SIGNS AND POST - PAGE/OGDEN
13	RTE D	158+81		LT				1	REMOVE SIGN AND POST - SIGN NO. 78
15	RTE D	168+80		RT				1	REMOVE SIGN AND POST - SIGN NO. 93
16	RTE D	171+85		LT				1	REMOVE SIGN AND POST - BIKE SHARE ROAD
16	RTE D	172+30		LT				1	REMOVE SIGN - SPEED LIMIT
TOTAL					1 LUMP SUM				

NO DIRECT PAYMENT FOR SAWCUTS, SAWCUTS ARE NOT LISTED BUT ARE REQUIRED FOR ALL REMOVALS ADJACENT TO AN ASPHALT OR CONCRETE SURFACE TO REMAIN IN PLACE

ANY REMOVAL OF ABANDONED UNDERGROUND UTILITY FACILITIES REQUIRED FOR COMPLETION OF THE PROJECT SHALL BE INCLUDED IN THE LUMP SUM COST FOR REMOVAL OF IMPROVEMENTS.

ANY ITEMS FOR REMOVAL NOT LISTED ABOVE BUT REQUIRED FOR THE COMPLETION OF THE PROJECT SHALL BE INCLUDED IN THE LUMP SUM COST FOR REMOVAL OF IMPROVEMENTS

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ROUTE D

QUANTITY SHEET
6 OF 32

GRG REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET	ROADWAY	STATION (FROM)	STATION (TO)	LOCATION	LENGTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
5	RTE D	116+86.88	117+10.30	RT	11				CURB (SPLIT WITH MODOT REMOVALS)
5	RTE D	116+87.19		RT				1	TREE
5	RTE D	117+22.75		RT				1	TREE
5	RTE D	117+81.74		RT				1	TREE
5	RTE D	118+31.16		RT				1	TREE
5	RTE D	118+81.88		RT				1	TREE
5-7	RTE D	116+73.37	126+43.64	RT	975	2647.87	294.21		CONCRETE SIDEWALK (SPLIT WITH MODOT REMOVALS)
6	RTE D	119+72.33	120+63.24	RT	48				CURB (SPLIT WITH MODOT REMOVALS)
6-7	RTE D	120+49.30	126+39.57	RT	295				GUTTER (SPLIT WITH MODOT REMOVALS)
6-7	RTE D	120+63.45	126+43.39	RT	580	3129.88	347.76		ASPHALT PARKING LOT (SPLIT WITH MODOT REMOVALS)
6-7	RTE D	119+72.33	126+60.59	RT	688	1919.47	213.27		ASPHALT ROADWAY (SPLIT WITH MODOT REMOVALS)
TOTAL					1 LUMP SUM				

NO DIRECT PAYMENT FOR SAWCUTS, SAWCUTS ARE NOT LISTED BUT ARE REQUIRED FOR ALL REMOVALS ADJACENT TO AN ASPHALT OR CONCRETE SURFACE TO REMAIN IN PLACE

ADJUST TO GRADE

DU SHEET X OF 16	STATION	ROADWAY	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE (EA)	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE MODOT PULL BOX (EA)	REMARKS
1	279+58.05	RTE D	LT		1				MSD#16J3-019C
1	279+66.21	RTE D	LT		1				MSD#16J3-053S
2	281+62.58	RTE D	RT		1				MSD#16J3-158S
2	283+59.61	RTE D	RT	1					MSD#UNKNOWN (1-2A_2)
2	99+59.27	RTE D	LT		1				MSD#16J3-041S
2	100+31.31	RTE D	LT		1				MSD#16J3-001C
2	100+67.64	RTE D	LT			1			NEW WATER VALVE
3	102+92.06	RTE D	LT		1				MSD#16J3-034S
3	103+59.75	RTE D	RT		1				MSD#16J3-042S
3	104+37.86	RTE D	RT		1				MSD#UNKNOWN (1-5A_3)
3	104+95.14	RTE D	RT		1				MSD#UNKNOWN (1-5A_4)
3	106+90.48	RTE D	LT		1				MSD#17J2-052S
4	108+10.01	RTE D	RT		1				MSD#UNKNOWN (1-5A_6)
4	110+78.94	RTE D	RT		1				MSD#UNKNOWN (1-5A_8)
4	111+30.40	RTE D	LT		1				MSD#17J2-051S
4	111+44.09	RTE D	RT	1					MSD#UNKNOWN (1-5A_9)
5	113+82.67	RTE D	LT		1				MSD#17J2-062S
5	114+83.13	RTE D	RT		1				MSD#17J2-063S
5	115+82.93	RTE D	LT		1				MSD#17J2-0132C
5	116+09.74	RTE D	RT		1				MSD#17J2-0133S
5	116+35.34	RTE D	LT		1				MSD#17J2-077S
5	116+79.70	RTE D	RT					1	LIGHTING
5	116+84.20	RTE D	RT					1	SIGNALS
5	117+75.59	RTE D	RT			1			NEW WATER VALVE
6	119+32.22	RTE D	LT		1				MSD#17J2-075S
6	119+36.52	RTE D	RT	1					MSD#17J2-066C
6	119+49.64	RTE D	RT		1				MSD#UNKNOWN (2-1A_1)
6	119+47.66	RTE D	LT	1					MSD#17J2-065C
6	122+88.33	RTE D	RT		1				MSD#17H1-006S
7	126+17.27	RTE D	RT		1				MSD#17H1-007S
8	129+02.98	RTE D	RT					1	MODOT ITS
8	129+43.77	RTE D	LT		1				MSD#17H1-0228S
8	132+04.88	RTE D	LT		1				MSD#17H1-0227S
8	132+10.61	RTE D	LT		1				MSD#17H1-0226S

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ROUTE D
QUANTITY SHEET
7 OF 32

ADJUST TO GRADE

DU SHEET X OF 16	STATION	ROADWAY	LOCATION	ADJUSTING BASIN OR INLET (EA)	ADJUSTING MANHOLE (EA)	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE MODOT PULL BOX (EA)	REMARKS
8	132+29.38	RTE D	LT			1			NEW WATER VALVE
10	139+67.72	RTE D	LT			1			NEW WATER VALVE
10	139+75.42	RTE D	LT			1			NEW WATER VALVE
10	139+98.04	RTE D	RT		1				MSD#17H1-085S
10	140+46.00	RTE D	RT					1	MODOT ITS
12	153+75.74	RTE D	LT			1			
13	155+95.97	RTE D	LT		1				MSD#17H1-0117D
13	156+35.16	RTE D	RT			1			
13	156+37.20	RTE D	RT					1	MODOT ITS
13	156+78.76	RTE D	LT			1			
13	157+29.22	RTE D	LT			1			
13	159+05.14	RTE D	LT			1			
14	159+72.74	RTE D	RT			1			
14	160+10.49	RTE D	RT			1			
14	161+10.99	RTE D	RT			1			NEW WATER VALVE
15	165+30.52	RTE D	RT			1			
15	165+45.78	RTE D	LT		1				MSD#17H2-056S
15	166+66.13	RTE D	RT					1	MODOT ITS
15	167+51.50	RTE D	RT			1			
15	168+16.66	RTE D	LT		1				MSD#17H2-058S
15	168+28.86	RTE D	LT		1				MSD#17H2-038S
15	168+32.80	RTE D	LT	1					MSD#17H2-028D
15	169+15.77	RTE D	LT		1				MSD#17H2-041S
15	169+50.95	RTE D	RT			2			
15	169+59.51	RTE D	RT			4			
16	170+09.52	RTE D	RT				1		
16	170+49.17	RTE D	RT			1			
16	170+94.10	RTE D	LT		1				MSD#17H2-0461C
16	171+50.96	RTE D	RT			1	1		
16	173+00.00	RTE D	RT			1			
16	172+17.85	RTE D	LT		1				MSD#17H2-0462C
		TOTAL		**5**	**33**	**24**	**2**	**6**	

MEDIAN

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	6 IN. CONCRETE MEDIAN STRIP (SQYD)	CONCRETE SIDEWALK, 7 IN. (SQYD)	PLOWABLE MEDIAN END (SQYD)	TRUNCATED DOMES (SQFT)	LINEAR GRADING CLASS 2, MODIFIED (STA)	REMARKS
3	103+40.87	104+02.93	RTE D	CL	58	42.9	58.3		20	0.6	
4	108+52.60	108+62.60	RTE D	LT		7.5					DRIVEWAY
4	111+71.17	112+15.70	RTE D	CL	41	27.2	40.9		20	0.4	
8	130+24.01	130+74.60	RTE D	CL	47	36.6	47.2		20	0.5	
10	138+54.54	139+42.99	RTE D	LT	14	61.5		14.4		0.2	SEE DETAIL AND JSP FOR PLOWABLE MEDIAN END
10-11	140+43.55	144+82.30	RTE D	LT		69.6					SEE TYPICAL SECTIONS FOR DRAINAGE SLOT DETAILS
10-11	140+57.74	144+98.22	RTE D	RT		69.8					SEE TYPICAL SECTIONS FOR DRAINAGE SLOT DETAILS
12	150+22.27	153+25.84	RTE D	LT		50.0					SEE TYPICAL SECTIONS FOR DRAINAGE SLOT DETAILS
12	150+22.27	153+21.93	RTE D	RT		47.4					SEE TYPICAL SECTIONS FOR DRAINAGE SLOT DETAILS
13	158+75.14	159+23.09	RTE D	CL	45	33.9	44.5		20	0.5	
15	166+45.98	166+75.18	RTE D	CL	26	15.1	25.7		20	0.3	
				TOTAL	**--**	**461.5**	**--**	**14.4**	**--**	**--**	**SEE SIDEWALK SCHEDULE FOR OMITTED TOTALS**

NOTE: SEE BRIDGE PLANS FOR MEDIAN ON STRUCTURE

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ROUTE D

QUANTITY SHEET
8 OF 32

COLDMILLING AND PAVEMENT QUANTITIES

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125C MIX) (TONS)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX) (TONS)	TACK COAT - NON TRACKING (GAL)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS) (SQYD)	CONCRETE PAVEMENT (12 IN. NON-REINFORCED, 15 FT. JOINTS) (SQYD)	CONCRETE APPROACH PAVEMENT (SQYD)	LINEAR GRADING CLASS 2, MODIFIED (STA)	REMARKS
1	279+50.00	281+25.00	RTE D	CL	925	101.3	101.3	139						
1	280+07.44	280+99.42	RTE D	RT					112	111.9			0.9	IONA AVE
2	281+25.00	282+28.03	RTE D	CL	580	63.5	63.5	87						
2	282+86.03	102+00.00	RTE D	CL	2768	303.0	303.0	415						
2	282+86.03	282+95.28	RTE D	LT					5		5.3			DRAINAGE
2	283+00.39	283+08.39	RTE D	RT					2		2.1			DRAINAGE
2	283+22.23	283+31.71	RTE D	LT					5		5.4			DRAINAGE
2-3	100+92.29	103+16.65	RTE D	RT					183		183.1			DRAINAGE
3	102+00.00	107+25.00	RTE D	CL	2967	324.8	324.8	445						
3	102+55.10	103+29.10	RTE D	LT					106	105.6			0.7	MILFORD AVE
3	103+27.25	103+35.25	RTE D	RT					2		2.2			DRAINAGE
3	105+34.40	105+42.40	RTE D	RT					7		7.2			DRAINAGE
3-4	106+54.52	107+27.39	RTE D	LT					102	101.9			0.7	COLBY AVE/DRAINAGE
4	107+25.00	112+65.00	RTE D	CL	2989	327.2	327.2	448						
4	109+44.95	109+52.95	RTE D	RT					7		7.1			DRAINAGE
4	110+93.46	111+65.26	RTE D	LT					99	98.8			0.7	LEROY AVE/DRAINAGE
5	112+65.00	118+00.00	RTE D	CL	3657	400.2	400.2	548						
6	118+00.00	123+25.00	RTE D	CL	3357	367.4	367.4	504						
6	119+87.43	120+19.81	RTE D	LT					19		19.1			DRAINAGE
6-7	119+72.33	126+06.96	RTE D	RT					391		391.4			DRAINAGE/WIDENING
7	123+25.00	128+50.00	RTE D	CL	2875	314.7	314.7	431						
7	123+83.55	123+92.05	RTE D	LT					2		2.4			DRAINAGE
7	124+18.66	124+21.98	RTE D	LT					2		1.8			DRAINAGE
7	124+19.68	124+21.49	RTE D	LT					2		1.8			DRAINAGE
7	124+59.87	124+70.87	RTE D	LT					3		3.3			DRAINAGE
7	126+30.61	127+12.11	RTE D	RT					116	116.2			0.8	KINGSLAND AVE (SOUTH)
7	127+24.12	127+32.12	RTE D	RT					2		2.2			DRAINAGE
8	128+50.00	133+75.00	RTE D	CL	1965	215.1	215.1	295						
8	129+13.01	129+94.52	RTE D	RT					93	93.3			0.8	GRUNER PLACE
8	129+21.16	129+88.45	RTE D	LT					90	90.1			0.7	KINGSLAND AVE (NORTH)/DRAINAGE
8	131+95.22	132+77.24	RTE D	RT					105	104.6			0.8	GREGAN PL (SOUTH)
8	131+95.68	132+63.58	RTE D	LT					68	67.8			0.7	GREGAN PL (NORTH)
8-9	133+71.90	133+81.86	RTE D	LT					3		2.8			DRAINAGE
9	133+75.00	138+50.00	RTE D	CL	1751	191.7	191.7	263						
9	136+31.09	136+41.09	RTE D	LT					3		2.8			DRAINAGE
9	138+17.60	138+27.60	RTE D	LT					3		2.8			DRAINAGE
10	138+50.00	143+75.00	RTE D	CL	2384	260.9	260.9	358						
10	139+92.50	140+01.48	RTE D	RT					6		6.1			DRAINAGE
10	140+05.11	140+14.11	RTE D	LT					3		2.5			DRAINAGE
10	140+27.78	140+35.17	RTE D	RT					5		4.5			DRAINAGE
10	140+36.27	140+46.27	RTE D	LT					4		3.5			DRAINAGE
10	140+46.52	140+57.74	RTE D	RT					4		4.1			DRAINAGE
10-11	140+43.55	144+45.47	RTE D	LT	407									SIDEWALK, SEE TYPICAL SECTION

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ROUTE D
QUANTITY SHEET
9 OF 32

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CASSANDRA MCKEE LEE
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PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

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COLDMILLING AND PAVEMENT QUANTITIES

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125C MIX) (TONS)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX) (TONS)	TACK COAT - NON TRACKING (GAL)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS) (SQYD)	CONCRETE PAVEMENT (12 IN. NON-REINFORCED, 15 FT. JOINTS) (SQYD)	CONCRETE APPROACH PAVEMENT (SQYD)	LINEAR GRADING CLASS 2, MODIFIED (STA)	REMARKS
10-11	140+57.74	144+45.47	RTE D	RT	474									SIDEWALK, SEE TYPICAL SECTION
11	143+75.00	144+45.47	RTE D	CL	282	30.8	30.8	42						
12	150+21.77	150+31.77	RTE D	CL					38			37.7		CONCRETE APPROACH REPAIR
12	150+54.76	154+25.00	RTE D	CL	1465	160.3	160.3	220						
12	150+54.76	153+15.15	RTE D	LT	305									SIDEWALK, SEE TYPICAL SECTION
12	150+54.76	153+22.43	RTE D	RT	295									SIDEWALK, SEE TYPICAL SECTION
13	154+25.00	159+50.00	RTE D	CL	2788	305.1	305.1	418						
13	155+07.64	155+17.51	RTE D	RT					3		2.8			DRAINAGE
13	155+56.15	156+44.80	RTE D	RT					121	121.4			0.9	OGDEN AVE
14	159+50.00	164+75.00	RTE D	CL	2633	288.2	288.2	395						
14	160+93.47	161+69.77	RTE D	RT					131	130.6			0.8	STEPHEN JONES AVE (SOUTH)
14	160+93.73	161+74.95	RTE D	LT					131	131.3			0.8	STEPHEN JONES AVE (NORTH)
14	161+98.58	162+09.65	RTE D	LT					5		5.4			DRAINAGE
15	164+75.00	170+00.00	RTE D	CL	2652	290.2	290.2	398						
15	166+24.96	166+34.28	RTE D	RT					3		2.9			DRAINAGE
15	166+34.91	166+49.29	RTE D	LT					6		5.8			DRAINAGE
15	166+59.37	167+61.84	RTE D	RT					20		20.4			DRAINAGE
15	166+85.60	166+93.60	RTE D	LT					1		1.3			DRAINAGE
15	167+96.08	168+30.52	RTE D	RT					8		7.7			DRAINAGE
15	168+30.52	168+94.08	RTE D	RT					93	92.9			0.6	MORTON AVE
15	168+42.09	168+82.73	RTE D	LT					23		22.7			DRAINAGE
15-16	169+88.26	171+01.51	RTE D	RT					38		37.8			DRAINAGE
15-16	169+95.70	170+91.40	RTE D	LT					34		33.5			DRAINAGE
16	170+00.00	172+37.14	RTE D	CL	1303	142.6	142.6	195						
16	172+41.52	179+93.21	RTE D	RT					51	51.4				DRAINAGE
			TOTAL		**38,822**	**4,087.0**	**4,087.0**	**5,601**	**---**	**1,417.8**	**803.8**	**37.7**	**---**	**SEE SIDEWALK SCHEDULE FOR OMITTED TOTALS**

NOTE: NO ADDITIONAL PAY FOR COLDMILLING OF EXISTING UTILITY PATCHES.
NOTE: NEW FULL DEPTH PAVEMENT FOR WIDENING AND DRAINAGE PURPOSES WILL BE MILLED AND OVERLAYED. NO DIRECT PAY FOR MILLING CONCRETE.

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ROUTE D
QUANTITY SHEET
10 OF 32

DRIVEWAYS

PLAN SHEET X OF 16	FROM STATION (CENTERLINE STATION)	TO STATION	ROADWAY	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	GRG TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	PAVED APPROACH, 8 IN. (SQYD)	GRG PAVED APPROACH, 8 IN. (SQYD)	LINEAR GRADING CLASS 2, MODIFIED (STA)	GRG LINEAR GRADING CLASS 2, MODIFIED (STA)	TYPE 1 AGGREGATE FOR BASE (8 IN. THICK) (SQYD)	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1) (TONS)	GRAVEL (A) OR CRUSHED STONE (B) (SQYD)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	REMARKS
1	280+02.86		RTE D	LT	45		44.6		0.5						
1-2	280+19.00	281+86.86	RTE D	LT							205	44.3			7207 & 7171 PAGE AVE PARKING LOT REPAIR
2	281+71.86		RTE D	LT	44		44.0		0.6						
2	281+97.81		RTE D	RT	75		74.7		0.3					91	
2	100+66.25		RTE D	LT	90		89.9		0.5						
2	101+28.25		RTE D	LT	45		44.5		0.3						
2	101+63.91		RTE D	LT	47		47.2		0.3						
2-3	102+14.45		RTE D	LT	200		200.4		0.8						
3	103+79.31		RTE D	LT	78		78.0		0.5		95	20.5		45	
3	104+44.28		RTE D	LT	64		63.5		0.4		62	13.3		32	
3	105+55.50		RTE D	LT	239		239.4		1.3		124	26.8		19	
3	106+48.34		RTE D	LT	35		35.4		0.2		48	10.4		18	
4	107+80.50		RTE D	LT	98		97.5		0.5						
4	108+42.65		RTE D	LT	96		95.7		0.4						
4	108+71.01		RTE D	LT	83		82.5		0.3						
4	109+01.45		RTE D	LT	46		45.8		0.3						
4	109+87.12		RTE D	LT	158		158.0		0.9		72	15.6		21	
4	112+44.50		RTE D	LT	67		66.6		0.4						
5	112+97.16		RTE D	LT	43		42.8		0.3						
5	114+39.26		RTE D	LT	38		37.9		0.3						
6	120+90.00		RTE D	RT	32	32	32.4	32.4	0.3	0.3					
6	121+45.91		RTE D	LT	72		71.9		0.5						
6	121+46.00		RTE D	RT	25	25	24.9	24.9	0.2	0.2					
7	127+78.66		RTE D	RT	105		104.9		0.5						
7	128+11.33		RTE D	RT	58		58.3		0.3						
7-8	128+60.65		RTE D	LT	195		195.4		1.2		79	17.0		33	
8	131+00.71		RTE D	RT	53		53.2		0.4						
8	131+52.63		RTE D	LT	74		74.2		0.5		42	9.1			
8	131+76.99		RTE D	LT	58		58.3		0.8		30	6.4			
8	132+97.96		RTE D	LT	41		41.1		0.3						
8-9	133+56.90		RTE D	RT	84		84.4		0.4						
9	134+04.79		RTE D	LT	61		61.0		0.4						
9	134+53.56		RTE D	RT	91		91.3		0.5					47	
9-10	134+83.92	139+00.20	RTE D	RT							664	143.6			6516 & 6510 PAGE AGE PARKING LOT REPAIR
9	135+00.97		RTE D	RT	36		35.8		0.4					28	
9	135+72.76		RTE D	LT	45		44.8		0.4						
9	136+65.54		RTE D	RT	42		41.5		0.5						
9	138+05.91		RTE D	LT	107		106.6		0.8						
9	138+07.43		RTE D	RT	65		64.5		0.7						
10	139+16.04		RTE D	RT	94		93.8		0.5					44	
10	139+38.00	139+45.99	RTE D	RT							2	0.4			6500 PAGE AVE PARKING LOT REPAIR
10	139+60.48	139+92.01	RTE D	RT							30	6.5			6500 PAGE AVE PARKING LOT REPAIR

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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BRIDGE NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ROUTE D
QUANTITY SHEET
11 OF 32

DRIVEWAYS

PLAN SHEET X OF 16	FROM STATION (CENTERLINE STATION)	TO STATION	ROADWAY	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	GRG TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	PAVED APPROACH, 8 IN. (SQYD)	GRG PAVED APPROACH, 8 IN. (SQYD)	LINEAR GRADING CLASS 2, MODIFIED (STA)	GRG LINEAR GRADING CLASS 2, MODIFIED (STA)	TYPE 1 AGGREGATE FOR BASE (8 IN. THICK) (SQYD)	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1) (TONS)	GRAVEL (A) OR CRUSHED STONE (B) (SQYD)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	REMARKS
12	153+38.36		RTE D	LT	122		121.5		0.6						
13	154+76.76		RTE D	LT	235		235.3		1.0					37	
13	156+98.83		RTE D	LT	19		18.9		0.4						
13	157+31.29		RTE D	RT	32		32.2		0.2						
13	158+04.49		RTE D	LT	38		37.9		0.3						
13	158+28.93		RTE D	RT	41		40.7		0.3						
13-14	159+54.31		RTE D	RT	38		38.3		0.3						
14	160+35.05		RTE D	RT	35		34.8		0.3					18	
14	160+29.06	161+01.74	RTE D	RT									37		
14	160+73.81		RTE D	RT	51		51.1		0.3					16	
14	161+94.80		RTE D	RT	27		27.3		0.5					23	
14	161+78.71	163+17.78	RTE D	RT							163	35.4			
14	162+36.32		RTE D	LT	30		30.3		0.4					69	
14	162+97.76		RTE D	RT	28		27.5		0.5					23	
14	163+51.18		RTE D	RT	75		75.4		0.6					35	
14	164+42.18		RTE D	RT	67		66.8		0.4					2	
15	166+25.42		RTE D	RT	25		25.4		0.2						
15	167+61.84		RTE D	RT	211		210.7		1.3					16	
15	167+53.46		RTE D	LT	86		85.5		0.5					29	
16	170+19.88		RTE D	RT	32		31.8		0.3					14	
16	170+13.70	170+59.97	RTE D	RT									30		
16	170+52.25		RTE D	RT	29		28.6		0.3					5	
16	170+59.97	171+26.47	RTE D	RT							29	6.2			
16	170+81.67		RTE D	RT	42		41.9		0.3					23	
16	171+96.95		RTE D	RT	88		88.2		0.6		67	14.4		35	
			TOTAL		**--**	**--**	**4,276.8**	**57.3**	**--**	**--**	**1,712**	**369.9**	**67**	**--**	**SEE SIDEWALK SCHEDULE TYPE 5 AGGREGATE & LINEAR GRADING TOTALS. SEE CURB SCHEDULE FOR TYPE S CURB TOTAL**

NOTE: BP-1 FOR DRIVEWAY AND PARKING LOT PURPOSES SHALL 4 INCHES THICK

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CASSANDRA MCKEE LEE
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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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ROUTE D

QUANTITY SHEET
12 OF 32

CURB

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	CURB AND GUTTER TYPE A (LF)	CURB AND GUTTER TYPE B (LF)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	GRG CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	CONCRETE GUTTER TYPE A (LF)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	REMARKS
1	279+50.00	279+76.51	RTE D	LT		27				9	
1	279+50.00	280+50.42	RTE D	RT		107				36	
1-2	280+31.63	281+45.06	RTE D	LT	114					38	
1-2	280+76.60	281+73.77	RTE D	RT		110				37	
2	281+99.52	282+28.03	RTE D	LT		29				10	
2	282+18.20	282+28.03	RTE D	RT		22				7	
2	282+69.69	282+91.19	RTE D	LT			30				
2	283+00.36	283+08.35	RTE D	RT		8				3	
2	283+24.77	283+26.52	RTE D	LT			5				
2	283+85.08	100+41.25	RTE D	LT		174				58	
2	100+91.25	101+13.25	RTE D	LT		22				7	
3	102+55.10	102+77.11	RTE D	LT		40				13	
3	102+71.63	102+74.54	RTE D	LT			7				
3	102+99.96	103+55.74	RTE D	LT		66				22	
3	103+07.76	104+33.95	RTE D	RT		147				49	
3	104+02.88	104+22.28	RTE D	LT		20				7	
3	104+66.28	104+92.37	RTE D	LT		26				9	
3	105+34.39	105+42.39	RTE D	RT		8				3	
3	106+44.01	106+76.78	RTE D	LT		45				15	
3-4	106+98.64	107+56.50	RTE D	LT		71				24	
4	108+04.60	108+17.60	RTE D	LT		13				4	
4	109+17.45	109+41.72	RTE D	LT		24				8	
4	109+44.95	109+52.95	RTE D	RT		8				3	
4	110+34.24	111+15.06	RTE D	LT		101				34	
4	111+40.71	112+23.52	RTE D	LT		96				32	
4	111+76.24	111+91.24	RTE D	RT		15				5	
5	112+65.00	112+81.16	RTE D	LT		16				5	
5	113+13.16	114+24.70	RTE D	LT		112				37	
5	115+14.81	115+76.76	RTE D	LT			64				
5	116+75.19	116+96.84	RTE D	LT			34				
6	119+53.74	119+89.06	RTE D	LT			51				
6	119+72.33	120+64.73	RTE D	RT			46	46			
6	120+15.71	120+15.84	RTE D	LT			3				
6	120+16.24	121+20.91	RTE D	LT			117				
6	121+16.00	121+23.00	RTE D	RT			4	4			
6-7	121+69.00	126+60.59	RTE D	RT			256	256			
6-7	121+70.91	124+16.10	RTE D	LT			252				
7	124+18.75	124+19.71	RTE D	LT			10				
7	124+42.09	124+43.28	RTE D	LT			10				
7	124+45.77	127+94.24	RTE D	LT			357				
7	126+82.15	127+53.66	RTE D	RT		85				28	
7	127+94.24	128+02.65	RTE D	LT		8				3	
7-8	128+31.98	129+43.96	RTE D	RT		132				44	
8	129+21.16	129+40.23	RTE D	LT		57				19	
8	129+61.11	131+24.69	RTE D	LT		176				59	
8	129+67.27	130+80.68	RTE D	RT		135				45	
8	131+20.75	132+27.71	RTE D	RT		128				43	
8	131+96.46	132+22.91	RTE D	LT		52				17	
8	132+35.44	132+82.06	RTE D	LT		65				22	
8	132+47.71	133+39.34	RTE D	RT		110				37	
8-9	133+12.92	133+83.76	RTE D	LT		71				24	
9	133+79.41	134+27.90	RTE D	RT		48				16	

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PROFESSIONAL ENGINEER

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Cassandra McKee Lee - Civil
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ROUTE D
QUANTITY SHEET
13 OF 32

CURB

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	CURB AND GUTTER TYPE A (LF)	CURB AND GUTTER TYPE B (LF)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	GRG CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	CONCRETE GUTTER TYPE A (LF)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	REMARKS
9	134+23.53	135+52.89	RTE D	LT		130				43	
9	135+22.81	136+29.54	RTE D	RT	42	52				31	
9	135+92.63	136+66.16	RTE D	LT		64				21	
9	136+79.54	137+70.38	RTE D	RT	42	49				30	
9-10	137+49.93	140+43.55	RTE D	LT		294				98	
9-10	138+44.56	138+90.89	RTE D	RT		46				15	
10	139+40.88	139+94.90	RTE D	RT		78				26	
10	140+32.43	140+33.26	RTE D	RT			15				
12-13	153+22.43	155+76.80	RTE D	RT		267				89	
12-13	153+70.87	154+26.52	RTE D	LT		56				19	
13	155+26.18	155+72.65	RTE D	LT		70				23	
13	156+02.01	157+27.48	RTE D	RT		145				48	
13	156+04.83	156+07.49	RTE D	LT			26				
13	156+10.68	156+20.45	RTE D	LT			14				
13	156+26.45	156+79.83	RTE D	LT			56				
13	157+17.83	157+87.93	RTE D	LT			70				
13	157+47.29	158+12.93	RTE D	RT		66				22	
13	158+21.05	158+9.12	RTE D	LT			80				
13	158+44.93	159+38.31	RTE D	RT		98				33	
13-14	159+04.12	161+18.43	RTE D	LT			261				
14	159+70.31	160+18.55	RTE D	RT		48				16	
14	160+49.80	160+53.30	RTE D	RT		4				1	
14	160+85.19	161+14.25	RTE D	RT			49				
14	161+50.23	161+69.77	RTE D	RT			57				
14	161+52.43	162+16.54	RTE D	LT			78				
14	161+56.74	161+79.35	RTE D	RT					25	8	
14	162+19.77	162+72.73	RTE D	RT			53				
14-15	162+56.54	166+55.50	RTE D	LT			401				
14	163+82.41	164+29.02	RTE D	RT			47				
14-15	164+64.31	166+11.59	RTE D	RT		147				49	
15	166+32.38	166+52.43	RTE D	RT			21				
15	166+55.50	167+30.27	RTE D	LT		75				25	
15	166+60.03	166+96.11	RTE D	RT			36				
15	167+77.55	168+40.07	RTE D	LT		91				30	
15	168+30.52	168+43.17	RTE D	RT			50				
15	168+66.10	169+38.78	RTE D	LT		99				33	
15-16	168+69.98	170+03.77	RTE D	RT		148				49	
15-16	168+38.80	170+12.80	RTE D	LT			77				
16	170+52.23	170+87.07	RTE D	LT			39				
16	170+93.91	171+68.95	RTE D	RT		77				26	
16	172+24.95	172+37.14	RTE D	RT		12				4	
16	172+37.14	172+52.14	RTE D	RT			27				
SUBTOTAL FROM DRIVEWAYS					-	-	726	-	-	-	
TOTAL					**198**	**4490**	**3429**	**306**	**25**	**–**	**SEE SIDEWALK SCHEDULE FOR TYPE 5 AGGREGATE TOTAL**

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ROUTE D
QUANTITY SHEET
14 OF 32

SIDEWALK

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	TRUNCATED DOMES (SQFT)	ADA CURB RAMP (EACH)	GRG ADA CURB RAMP (EACH)	CONCRETE SIDEWALK, 4 IN. (SQYD)	CONCRETE SIDEWALK, 7 IN. (SQYD)	GRG CONCRETE SIDEWALK, 7 IN. (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	GRG TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	LINEAR GRADING CLASS 2, MODIFIED (STA)	GRG LINEAR GRADING CLASS 2, MODIFIED (STA)	REMARKS
1	279+50.00	279+88.25	RTE D	LT		1		11.0			11		0.4		
1	279+50.00	280+38.21	RTE D	RT	20	1		39.1	6.2		45		0.9		INCLUDES 8'X7' BUS STOP
1-2	280+20.07	281+56.37	RTE D	LT		2			64.5		65		1.4		INCLUDES 8'X7' BUS STOP
1-2	280+79.66	281+82.54	RTE D	RT	13	2		38.2			38		1.0		
2	281+87.47	282+28.03	RTE D	LT		2		6.0			6		0.4		
2	282+13.64	282+28.03	RTE D	RT		1							0.1		
2	282+65.32	283+28.51	RTE D	LT	24	3		23.8			24		1.1		
2	282+86.37	282+99.86	RTE D	RT				18.1			18		0.1		
2	283+42.48	283+50.30	RTE D	RT	10	1							0.1		
2	283+79.26	100+50.75	RTE D	LT	20	4		68.9			69		1.5		
2	100+81.77	101+22.75	RTE D	LT		2		11.9			12		0.4		
2	101+33.77	101+57.91	RTE D	LT		2		2.3			2		0.2		
2	101+69.92	101+84.80	RTE D	LT		2							0.1		
3	102+45.60	102+74.07	RTE D	LT		2							0.3		
3	103+05.13	103+62.24	RTE D	LT	20	3			36.3		36		0.6		INCLUDES 10'X22' BUS STOP
3	103+70.08	103+76.08	RTE D	RT	10	1		5.3			5		0.1		
3	103+83.97	103+90.92	RTE D	RT					7.6		8		0.1		INCLUDES 10'X7' BUS STOP
3	103+96.38	104+31.78	RTE D	LT		2			3.6		4		0.4		
3	104+56.80	105+01.87	RTE D	LT		2		10.0					0.5		
3	106+11.00	106+20.63	RTE D	LT		1							0.1		
3	106+34.60	106+73.61	RTE D	LT	10	2		4.2			4		0.4		
3-4	107+04.60	107+66.00	RTE D	LT	10	2		17.7			18		0.6		
4	107+95.00	108+27.12	RTE D	LT		2		7.3			7		0.3		
4	108+84.87	108+94.95	RTE D	LT		2							0.1		
4	109+07.95	109+51.20	RTE D	LT		2		12.3			12		0.4		
4	110+24.74	111+12.42	RTE D	LT	11	2		34.0			34		0.9		
4	111+43.91	112+33.02	RTE D	LT	21	3		33.5	22.8		56		0.9		INCLUDES 10'X22' BUS STOP
4	111+78.24	111+89.10	RTE D	RT	10	1							0.1		
4-5	112+55.48	112+90.66	RTE D	LT		2		9.0			9		0.4		
5	113+03.66	114+34.20	RTE D	LT		2		113.0			113		1.3		
5	114+44.31	114+53.57	RTE D	LT		1							0.1		
5	114+93.30	115+76.76	RTE D	LT	43	2		68.2			68		0.8		
5	115+82.79	115+98.87	RTE D	RT	12	1							0.2		
5	116+20.21	116+27.26	RTE D	LT	16	1							0.1		
5-6	116+74.95	120+77.51	RTE D	RT	38	1	1	39.6	236.0	236.0	276	236	2.0	2.0	
6	120+16.34	121+29.74	RTE D	LT	13	2		49.3			49		1.1		
6	121+02.58	121+36.41	RTE D	RT		1	1						0.2	0.2	
6-7	121+56.51	126+56.64	RTE D	RT	14	1	1	42.5	241.6	241.6	284	242	2.5	2.5	
6-7	121+62.07	124+18.23	RTE D	LT	10	2		194.4			194		2.6		
7	124+43.63	128+12.15	RTE D	LT	10	2		220.9			221		3.7		
7	126+89.36	127+63.16	RTE D	RT	10	2		27.3			27		0.7		
7	127+94.16	128+05.15	RTE D	RT		2							0.1		
7-8	128+17.56	129+37.90	RTE D	RT	10	2		51.5			52		1.2		
8	129+09.15	129+39.17	RTE D	LT	12	2		13.2			13		0.6		
8	129+64.65	131+34.20	RTE D	LT	22	3		82.0	20.5		103		1.7		INCLUDES 10'X22' BUS STOP
8	129+72.63	130+95.10	RTE D	RT	20	3		52.8	18.7		72		1.2		INCLUDES 10'X22' BUS STOP
8	131+06.33	132+20.27	RTE D	RT	10	2		51.3			51		1.1		
8	131+91.33	132+18.55	RTE D	LT	12	2		2.4			2		0.3		
8	132+41.02	132+91.09	RTE D	LT	12	2		14.9			15		0.5		

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

ROUTE D

QUANTITY SHEET
15 OF 32

SIDEWALK

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	TRUNCATED DOMES (SQFT)	ADA CURB RAMP (EACH)	GRG ADA CURB RAMP (EACH)	CONCRETE SIDEWALK, 4 IN. (SQYD)	CONCRETE SIDEWALK, 7 IN. (SQYD)	GRG CONCRETE SIDEWALK, 7 IN. (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	GRG TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	LINEAR GRADING CLASS 2, MODIFIED (STA)	GRG LINEAR GRADING CLASS 2, MODIFIED (STA)	REMARKS
8	132+54.10	133+49.41	RTE D	RT	10	2		37.9			38		1.0		
8-9	133+03.01	133+92.57	RTE D	LT		2		39.6			40		0.9		
8-9	133+70.50	134+37.16	RTE D	RT		2		21.3			21		0.7		
9	134+13.17	135+62.33	RTE D	LT		2		72.3			72		1.5		
9	134+69.71	134+87.45	RTE D	RT		2							0.2		
9	135+13.95	136+38.40	RTE D	RT		2			49.8		50		1.2		
9	135+83.19	136+79.41	RTE D	LT		2		35.2			35		1.0		
9	136+70.71	137+79.21	RTE D	RT		2			48.8		49		1.1		INCLUDES 8'X7' BUS STOP
9-10	137+33.08	140+43.55	RTE D	LT	10	3		161.7	5.5		167		3.1		INCLUDES 12'X7' BUS STOP
9-10	138+35.60	138+99.59	RTE D	RT		2			17.6		18		0.6		
10	139+31.92	139+82.61	RTE D	RT	24	3							0.5		
10	140+32.93	140+58.84	RTE D	RT	13	1		9.3			9		0.3		
10-11	140+43.55	144+45.47	RTE D	LT				406.9			407				NO AGG, SEE TYPICAL SECTION
10-11	140+57.97	144+45.47	RTE D	RT				474.5			475				NO AGG, SEE TYPICAL SECTION
12	150+54.76	153+15.15	RTE D	LT				304.8			305				NO AGG, SEE TYPICAL SECTION
12	150+54.76	153+22.43	RTE D	RT				295.3			295				NO AGG, SEE TYPICAL SECTION
12-13	153+22.43	155+73.41	RTE D	RT	9	2		128.4			128		2.5		
12-13	153+52.52	154+37.78	RTE D	LT		2		41.2			41		0.9		
13	155+16.23	155+69.65	RTE D	LT	17	2		33.6			34		0.7		
13	156+06.40	157+24.79	RTE D	RT	20	3		61.8			62		1.3		
13	156+05.33	156+72.15	RTE D	LT	20	3		44.5			45		1.1		
13	157+09.00	157+96.76	RTE D	LT		2		38.5			39		0.9		
13	157+38.46	158+21.76	RTE D	RT		2		30.4			30		0.8		
13	158+36.09	159+47.14	RTE D	RT	10	3		55.1			55		1.1		
13-14	158+11.90	161+14.44	RTE D	LT	20	3		208.3			208		3.0		
14	159+61.48	160+27.57	RTE D	RT		2		24.9			25		0.7		
14	160+41.34	160+62.49	RTE D	RT		2							0.2		
14	160+84.31	161+12.34	RTE D	RT	10	1		8.0			8		0.5		
14	161+50.74	161+78.15	RTE D	RT	11	2		12.7	6.2		19		0.7		
14	161+53.73	162+25.36	RTE D	LT	10	2		22.6			23		0.7		
14	162+10.96	162+81.58	RTE D	RT		2			22.0		22		0.7		
14	163+13.38	163+76.46	RTE D	RT		2							0.6		
14	163+72.85	164+29.55	RTE D	RT		2		16.6			17		0.6		
14-15	162+47.69	167+39.77	RTE D	LT	10	3		304.8	20.8		326		4.9		INCLUDES 10'X22' BUS STOP
14-15	164+55.48	166+20.42	RTE D	RT		2		94.1			94		1.6		
15	166+29.75	167+05.61	RTE D	RT	10	3		36.7	18.6		55		0.8		INCLUDES 10'X22' BUS STOP
15	167+68.44	168+39.94	RTE D	LT	10	2		31.9			32		0.7		
15	168+25.86	168+40.71	RTE D	RT	13	2							0.1		
15-16	168+75.30	170+12.61	RTE D	RT	10	2		85.3			85		1.4		
15	168+77.40	169+86.27	RTE D	LT	10	1		56.3			56		1.1		
16	170+26.94	170+45.09	RTE D	RT		2							0.2		
16	170+58.75	170+69.17	RTE D	RT		2							0.1		
16	170+94.17	171+78.45	RTE D	RT		2		65.2			65		0.8		
16	172+15.45	172+40.66	RTE D	RT		1		15.7			16		0.4		
		SUBTOTAL FROM CURB			**-**	**-**	**-**	**-**	**-**	**-**	**1,571**	**-**	**-**	**-**	
		SUBTOTAL FROM DRIVEWAYS			**-**	**-**	**-**	**-**	**-**	**-**	**4,280**	**57**	**28.3**	**0.5**	
		SUBTOTAL FROM MEDIAN			**100**	**-**	**-**	**-**	**216.6**	**-**	**231**	**-**	**2.5**	**-**	
		SUBTOTAL FROM PAVEMENT			**-**	**-**	**-**	**-**	**-**	**-**	**2260**	**-**	**9.9**	**-**	
		SUBTOTAL FROM FINAL SLOPES			**-**	**-**	**-**	**-**	**-**	**-**	**821**	**-**	**-**	**-**	
		TOTAL			**790**	**172**	**3**	**4,651.3**	**1,063.7**	**477.6**	**14,652**	**535**	**117.8**	**5.2**	

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3215B
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)
CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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ROUTE D
QUANTITY SHEET 16 OF 32

TEMPORARY EROSION CONTROL

EC SHEET NO. (X OF 16)	FROM STATION	TO STATION	ROADWAY	LOCATION	CURB INLET CHECK (EACH)	SEDIMENT REMOVAL (CUYD)	SILT FENCE (LF)	REMARKS
1	279+50.10	279+88.81	RTE D	LT		0.4	39	
1	280+14.04		RTE D	RT	1	1.0		
1-2	280+18.90	281+57.12	RTE D	LT		1.4	141	
1	280+34.65		RTE D	RT	1	1.0		
2	281+88.14	282+33.02	RTE D	LT		0.5	50	
2	281+99.59	282+52.57	RTE D	RT		0.5	53	
2	282+59.74	283+02.30	RTE D	LT		0.9	87	
2	282+83.05	283+02.81	RTE D	RT		0.4	41	
2	282+91.27		RTE D	LT	1	1.0		
2	283+04.40		RTE D	RT	1	1.0		
2	283+26.18		RTE D	LT	1	1.0		
2	283+59.66		RTE D	RT	1	1.0		
2	283+86.49	100+51.25	RTE D	LT		1.4	141	
2	99+53.95		RTE D	LT	1	1.0		
2	99+86.42		RTE D	LT	1	1.0		
2	100+93.15		RTE D	LT	1	1.0		
2	100+99.15		RTE D	LT	1	1.0		
2	100+99.59		RTE D	LT	1	1.0		
2	101+24.19		RTE D	LT	1	1.0		
2	100+45.83		RTE D	LT	1	1.0		
3	102+55.10		RTE D	LT	1	1.0		
3	102+74.06		RTE D	LT	1	1.0		
3	103+10.37	104+30.62	RTE D	RT		1.4	141	
3	103+31.25		RTE D	RT	1	1.0		
3	103+31.60		RTE D	LT	1	1.0		
3	103+94.75	105+99.58	RTE D	LT		1.1	105	
3	104+12.38		RTE D	LT	1	1.0		
3	104+84.87		RTE D	LT	1	1.0		
3	105+38.39		RTE D	RT	1	1.0		
3	106+47.02		RTE D	LT	1	1.0		
3	106+56.45		RTE D	LT	1	1.0		
3	106+73.87		RTE D	LT	1	1.0		
4	107+41.94		RTE D	LT	1	1.0		
4	108+11.05		RTE D	LT	1	1.0		
4	109+29.58		RTE D	LT	1	1.0		
4	109+48.93		RTE D	RT	1	1.0		
4	110+85.95		RTE D	LT	1	1.0		
4	111+13.00		RTE D	LT	1	1.0		
4	111+32.88		RTE D	RT	1	1.0		
4	111+71.25		RTE D	LT	1	1.0		
4	112+17.56		RTE D	RT	1	1.0		
5	116+19.55		RTE D	LT	1	1.0		
6	118+58.24	120+78.62	RTE D	RT		2.2	220	
6	119+36.52		RTE D	RT	1	1.0		
6	119+46.46		RTE D	LT	1	1.0		
6	120+16.92	121+30.57	RTE D	LT		1.2	116	
6	120+18.90		RTE D	LT	1	1.0		
6	120+18.91		RTE D	LT	1	1.0		
6	120+25.75		RTE D	LT	1	1.0		
6	120+33.17		RTE D	LT	1	1.0		
6	120+63.40		RTE D	LT	1	1.0		
6	122+67.62		RTE D	LT	1	1.0		

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ROUTE D

QUANTITY SHEET
17 OF 32

TEMPORARY EROSION CONTROL

EC SHEET NO. (X OF 16)	FROM STATION	TO STATION	ROADWAY	LOCATION	CURB INLET CHECK (EACH)	SEDIMENT REMOVAL (CUYD)	SILT FENCE (LF)	REMARKS
6	122+67.62		RTE D	RT	1	1.0		
7	123+47.94	124+16.09	RTE D	LT		0.7	72	
7	124+14.46		RTE D	LT	1	1.0		
7	124+17.47		RTE D	LT	1	1.0		
7	124+42.10	125+62.34	RTE D	LT		1.2	121	
7	124+49.60		RTE D	LT	1	1.0		
7	124+63.88		RTE D	LT	1	1.0		
7	124+68.35		RTE D	RT	1	1.0		
7	124+69.60		RTE D	LT	1	1.0		
7	124+99.25		RTE D	LT	1	1.0		
7	126+97.95		RTE D	LT	1	1.0		
7	126+57.67		RTE D	RT	1	1.0		
7	126+84.08	127+62.98	RTE D	RT		0.8	79	
7	126+98.64		RTE D	LT	1	1.0		
7	127+28.12		RTE D	RT	1	1.0		
7	127+99.64		RTE D	LT	1	1.0		
7-8	128+17.18	129+41.63	RTE D	RT		1.2	124	
8	129+40.45		RTE D	LT	1	1.0		
8	129+67.56	130+94.96	RTE D	RT		1.3	219	
8	129+94.69		RTE D	LT	1	1.0		
8	131+05.75	132+25.60	RTE D	RT		1.3	127	
8	132+50.39	133+50.63	RTE D	RT		1.0	99	
9	133+76.73		RTE D	LT	1	1.0		
9	135+81.05	136+78.17	RTE D	LT		0.9	86	
9	136+36.12		RTE D	LT	1	1.0		
9	136+71.02		RTE D	RT	1	1.0		
9-10	137+90.37	140+48.60	RTE D	LT		1.4	136	
9	138+19.25		RTE D	RT	1	1.0		
9	138+22.67		RTE D	LT	1	1.0		
10	139+42.07		RTE D	RT	1	1.0		
10	139+94.43		RTE D	RT	1	1.0		
10	140+08.63		RTE D	LT	1	1.0		
10	140+09.18		RTE D	LT	1	1.0		
10	140+32.78		RTE D	RT	1	1.0		
10	140+37.51	140+65.82	RTE D	RT		0.4	44	
10	140+41.33		RTE D	LT	1	1.0		
10	140+42.48		RTE D	LT	1	1.0		
10	140+52.14		RTE D	RT	1	1.0		
10	140+52.14		RTE D	RT	1	1.0		
12	153+11.94	153+25.91	RTE D	LT		0.2	16	
12-13	153+21.32	155+74.13	RTE D	RT		2.5	253	
12	153+62.93		RTE D	RT	1	1.0		
12	153+63.52		RTE D	RT	1	1.0		
12	153+64.63		RTE D	LT	1	1.0		
12	153+65.41		RTE D	LT	1	1.0		
13	154+30.79		RTE D	LT	1	1.0		
13	154+30.79		RTE D	LT	1	1.0		
13	155+12.52		RTE D	RT	1	1.0		
13	155+12.52		RTE D	RT	1	1.0		
13	155+32.33		RTE D	LT	1	1.0		
13	156+15.89	157+24.95	RTE D	RT		1.1	114	
13	156+37.07		RTE D	RT	1	1.0		
13	156+37.55		RTE D	LT	1	1.0		
13	155+69.45		RTE D	LT	1	1.0		
13	157+22.05		RTE D	RT	1	1.0		

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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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ROUTE D

QUANTITY SHEET
18 OF 32

TEMPORARY EROSION CONTROL

EC SHEET NO. (X OF 16)	FROM STATION	TO STATION	ROADWAY	LOCATION	CURB INLET CHECK (EACH)	SEDIMENT REMOVAL (CUYD)	SILT FENCE (LF)	REMARKS
13	157+38.32	158+22.26	RTE D	RT		0.8	84	
13	158+26.08		RTE D	LT	1	1.0		
13	158+26.08		RTE D	LT	1	1.0		
13	158+45.55	159+48.30	RTE D	RT		1.0	103	
13	159+33.74		RTE D	LT	1	1.0		
14	159+60.77	160+29.11	RTE D	RT		0.7	68	
14	159+84.43		RTE D	RT	1	1.0		
14	160+59.40		RTE D	LT	1	1.0		
14	160+85.06	161+05.65	RTE D	RT		0.2	22	
14	161+18.36		RTE D	LT	1	1.0		
14	161+57.85	161+79.95	RTE D	RT		0.5	53	
14	162+03.26		RTE D	LT	1	1.0		
15	166+30.46		RTE D	RT	1	1.0		
15	166+38.91		RTE D	LT	1	1.0		
15	166+89.60		RTE D	LT	1	1.0		
15	188+89.60		RTE D	RT	1	1.0		
15	168+23.74		RTE D	RT	1	1.0		
15	168+28.59		RTE D	LT	1	1.0		
15	168+32.58		RTE D	LT	1	1.0		
15	168+32.80		RTE D	LT	1	1.0		
15	168+88.69		RTE D	LT	1	1.0		
15	169+97.04		RTE D	RT	1	1.0		
15	169+92.26		RTE D	RT	1	1.0		
15	169+99.56		RTE D	LT	1	1.0		
16	170+95.23	171+67.86	RTE D	RT		0.7	73	
16	170+99.29		RTE D	RT	1	1.0		
16	172+32.68	172+53.47	RTE D	RT		0.2	21	
16	172+85.34		RTE D	RT	1	1.0		
			TOTAL		104	134	3,048	

FENCE

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	CHAIN LINK FENCE (72 IN.) (LF)	REMARKS
10-11	140+67.00	145+00.60	RTE D	RT	444	
12	150+22.39	153+22.35	RTE D	RT	310	
				TOTAL	754	

NOTE: SEE BRIDGE PLANS FOR FENCE ON BRIDGE

MOBILIZATION

TOTAL	1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL	1 LUMP SUM

POT HOLING UTILITY FACILITIES

TOTAL	60 EACH

TRAFFIC SIGNAL MAINTENANCE & PROGRAMMING

TOTAL	1 LUMP SUM

GRG IRRIGATION SYSTEM

TOTAL	1 LUMP SUM

PAVEMENT REPAIR

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	PER AREA LENGTH (LF)	PER AREA WIDTH (LF)	NUMBER OF REPAIR AREAS	REPAIR AREA (SF)	FURNISHING AND PLACING CONCRETE MATERIAL FOR FULL DEPTH PAVEMENT REPAIR (SQYD)	SUBGRADE COMPACTION (6 IN. DEPTH) (PAVEMENT REPAIR) (SQYD)	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN. THICK) (PAVEMENT REPAIR) * (SQYD)	FULL DEPTH PAVEMENT REPAIR SAW CUT (FOR PERIMETER AND INTERNAL SAW CUTS) * (LF)	DOWEL BAR (DRILLING, FURNISHING AND INSTALLATION) FOR FULL DEPTH PAVEMENT REPAIR (EA)	REMARKS **
VAR.	VAR.	VAR.	RTE D	LT	6	6	2	72	8.0	2	2	48	40	
VAR.	VAR.	VAR.	RTE D	LT	6	12	5	360	40.0	8	8	180	100	
VAR.	VAR.	VAR.	RTE D	LT	6	24	5	720	80.0	16	16	300	100	
VAR.	VAR.	VAR.	RTE D	LT	12	15	2	360	40.0	8	8	138	40	
VAR.	VAR.	VAR.	RTE D	RT	6	12	6	432	48.0	10	10	216	120	
VAR.	VAR.	VAR.	RTE D	RT	6	24	5	720	80.0	16	16	300	100	
VAR.	VAR.	VAR.	RTE D	VAR.	6	12	4	288	32.0	6	6	144	80	
								TOTAL	328.0	66	66	1,326	580	

* SUBGRADE COMPACTION AGGREGATE IS ESTIMATED TO BE 20% OF EACH REPAIR AREA. DISTRIBUTION OF WORK THROUGHOUT THE PROJECT AREA MAY VARY.
** QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER.

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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

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ENGINEERING CORPORATION - 000631

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ROUTE D
QUANTITY SHEET
19 OF 32

FINAL SLOPE SURFACES

PLAN SHEET X OF 16	FROM STATION	TO STATION	BASELINE	LOCATION	SLOPE PROTECTION (SQYD)	TURF TYPE TALL FESCUE SODDING (SQYD)	GRG TURF TYPE TALL FESCUE SODDING (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	LANDSCAPING RESTORATION (SQYD)	REMARKS
1	279+50.00	279+88.81	RTE D	LT		10				
1	279+50.00	280+46.87	RTE D	RT	6	35		6		
1-2	280+86.20	281+81.47	RTE D	RT	49			49		
2	281+86.86	282+31.66	RTE D	LT		51				
2	282+13.91	282+28.03	RTE D	RT	11			11		
2	282+60.29	283+26.07	RTE D	LT		68				
2	282+82.84	283+00.87	RTE D	RT		23				
2	283+40.46	283+52.92	RTE D	RT		5				
2	283+79.19	100+51.13	RTE D	LT		250				
2	100+81.75	101+22.72	RTE D	LT		85				
2	101+33.75	101+57.91	RTE D	LT		46				
2	101+69.91	101+85.57	RTE D	LT		26				
3	102+45.60	102+71.84	RTE D	LT	34			34		
3	103+03.19	103+62.21	RTE D	LT	23			23		
3	103+10.76	104+30.84	RTE D	RT		155				
3	103+96.38	104+31.78	RTE D	LT	36			36		
3	104+56.78	105+01.86	RTE D	LT	46			46		
3	106+11.00	106+24.56	RTE D	LT	11			11		
3	106+35.84	106+74.02	RTE D	LT	34			34		
3-4	107+01.47	107+66.00	RTE D	LT		111				
4	107+95.00	108+27.12	RTE D	LT		63				
4	108+84.87	108+94.95	RTE D	LT		20				
4	109+07.95	109+51.00	RTE D	LT		81				
4	110+24.74	111+10.20	RTE D	LT		163				
4	111+48.52	112+33.02	RTE D	LT		125				
4-5	112+55.48	112+90.53	RTE D	LT		64				
5	113+03.66	114+34.19	RTE D	LT		144				
5	114+44.31	114+53.76	RTE D	LT		9				
5	114+93.30	115+76.87	RTE D	LT	22	16		22	33	
5	115+80.74	115+89.97	RTE D	RT		2				
5	116+75.64	116+96.42	RTE D	LT		14				
5-6	116+73.37	120+78.50	RTE D	RT		309	309			
6	119+54.20	119+88.59	RTE D	LT					44	
6	120+16.75	121+30.41	RTE D	LT		192				
6	121+01.50	121+37.50	RTE D	RT		22	22			
6-7	121+54.50	126+60.09	RTE D	RT		299	299			
6-7	121+61.41	124+19.71	RTE D	LT		340				
7	124+42.34	128+12.13	RTE D	LT	21	508		21		
7	126+85.10	127+63.16	RTE D	RT		141				
7	127+94.16	128+05.18	RTE D	RT		14				
7-8	128+17.48	129+40.97	RTE D	RT		299				
8	129+09.15	129+33.23	RTE D	LT	40			40		
8	129+69.89	131+34.70	RTE D	LT		312				
8	129+70.05	130+95.18	RTE D	RT		222				
8	131+06.25	132+24.72	RTE D	RT		246				
8	131+90.83	132+20.49	RTE D	LT		55				
8	132+38.43	132+91.20	RTE D	LT		105				
8	132+50.73	133+49.94	RTE D	RT		237				
8-9	133+02.86	133+92.69	RTE D	LT		181				
8-9	133+70.43	134+37.97	RTE D	RT		107				
9	134+13.41	135+61.94	RTE D	LT		141				
9	134+69.11	134+88.20	RTE D	RT	29			29		

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07/03/2025
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ENGINEERING CORPORATION - 000631

ROUTE D

QUANTITY SHEET
20 OF 32

FINAL SLOPE SURFACES

PLAN SHEET X OF 16	FROM STATION	TO STATION	BASELINE	LOCATION	SLOPE PROTECTION (SQYD)	TURF TYPE TALL FESCUE SODDING (SQYD)	GRG TURF TYPE TALL FESCUE SODDING (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	LANDSCAPING RESTORATION (SQYD)	REMARKS
9	135+81.41	136+78.98	RTE D	LT		79				
9-10	137+31.68	140+43.56	RTE D	LT		466				
10	139+31.18	139+73.79	RTE D	RT		45				
10	140+37.05	140+58.68	RTE D	RT	20	24		20		
12	153+15.15	153+24.34	RTE D	LT	4			4		
12-13	153+22.43	155+73.84	RTE D	RT		584				
12-13	153+51.37	154+37.78	RTE D	LT		211				
13	155+15.73	155+69.20	RTE D	LT	52			52		
13	156+05.01	157+24.79	RTE D	RT	8	228		8		
13	156+05.33	157+97.43	RTE D	LT	66	296		66		
13	157+37.79	158+22.43	RTE D	RT		130				
13	158+35.43	159+47.81	RTE D	RT	22	145		22		
13-14	158+11.55	161+17.92	RTE D	LT	27	474		27		
14	159+60.81	160+28.56	RTE D	RT		84				
14	160+40.81	160+63.31	RTE D	RT		20				
14	160+84.31	161+13.75	RTE D	RT		52				
14	161+52.89	162+25.56	RTE D	LT		66				
14	161+56.76	161+79.30	RTE D	RT	60			60		
14	163+13.26	163+31.41	RTE D	RT	20			20		
14	163+71.94	164+29.55	RTE D	RT	16	72		16		
14-15	162+47.02	167+39.77	RTE D	LT	14	393		14		
14-15	164+54.81	166+21.09	RTE D	RT		225				
15	166+29.75	167+06.74	RTE D	RT	31	103		31		
15	167+68.44	168+39.94	RTE D	LT	12	105		12		
15	168+25.88	168+42.60	RTE D	RT	3	37		3		
15-16	168+68.52	170+13.99	RTE D	LT		262				
15-16	168+73.18	170+15.40	RTE D	RT	21	168		21		
16	170+26.43	170+45.54	RTE D	RT	10			10		
16	170+52.81	170+86.48	RTE D	LT		16				
16	170+58.75	170+69.26	RTE D	RT	5			5		
16	170+94.17	171+78.45	RTE D	RT	28	107		28		
16	172+15.45	172+51.64	RTE D	RT	40			40		
TOTAL					**821**	**9,688**	**630**	**–**	**77**	**SEE SIDEWALK SCHEDULE FOR OMITTED TOTALS**

BARRIER REPAIR

PLAN SHEET X OF 16	FROM STATION	TO STATION	ROADWAY	LOCATION	REMOVE AND REPLACE BARRIER CURB (LF)	REMARKS
11	146+85.44	156+95.44	RTE D	RT	10	
				TOTAL	**10**	

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ROUTE D
QUANTITY SHEET
21 OF 32

DRAINAGE STRUCTURES

STRUCT. ID.	MSD STRUCT. NO.	DU SHEET X OF 16	CULVERT SECTION SHEET	STATION	ROADWAY	LOCATION	ACTUAL DEPTH	12 IN. SLOTTED DRAIN (LF)	SIDEWALK TRENCH DRAIN (EA)	CONVERT INLET TO MANHOLE (EA)	SINGLE STREET INLET (FT)	DOUBLE STREET INLET (FT)	2 GRATE INLET WITH SIDE INTAKE (FT)	4-WAY AREA INLET (FT)	PRECAST CONCRETE DROP INLET 2 FT X 2 FT (FT)	PRECAST CONCRETE DROP INLET 3FTX2FT 6 IN (FT)	PRECAST CONCRETE DROP INLET 5 FT X 3 FT (FT)	PRECAST CONCRETE DROP INLET 3 FT X 2 FT (FT)	PRECAST CONCRETE DROP INLET 4 FT X 2 FT (FT)	PRECAST CONCRETE MANHOLE - 48 IN. (FT)	PRECAST CONCRETE MANHOLE - 60 IN. (FT)	PRECAST CONCRETE MANHOLE - 72 IN. (FT)	PRECAST CONCRETE MANHOLE - 84 IN. (FT)	CLASS 3 EXCAVATION (CUYD)	GRANULAR BACKFILL (CUYD)	PIPE OPENINGS (NUMBER - SIZE)	REMARKS
	16J3-044D	1	188	280+26.35	RTE D	34.00' RT	5.4														5			24	(4)	1-12", 2-36"	
	16J3-002C	2	188	99+86.63	RTE D	44.74' LT	---			1														---	---	2-21"	
1-1C_1		1	188	280+13.94	RTE D	26.20' RT	4.0								4									7	(3)	1-12"	
1-2B_1		2	188	283+04.38	RTE D	31.41 RT	4.0								4									6	(3)	1-12"	
1-2B_2		2	188	283+04.12	RTE D	37.68' RT	6.1													7				13	(5)	3-12"	
1-4A_0		2	188	282+87.21	RTE D	41.90' LT	8.7													9				19	(8)	1-18", 2-21"	
1-4A_2		2	188	283+26.18	RTE D	44.04' LT	7.7												7					14	(9)	2-21"	
1-4A_3		2	188	99+66.85	RTE D	45.01' LT	6.0									6								12	(6)	2-21"	
1-4B_1		2	188	282+87.09	RTE D	29.36' LT	4.0								4									7	(3)	1-18"	
1-5A_1		2	188	100+98.17	RTE D	28.05' RT	6.2																7	23	(8)	1-24"X36", 3-36"	
1-5A_2		3	188	103+24.60	RTE D	27.76' RT	7.0													7				14	(6)	1-12", 1-15", 1-36"	
1-5A_5		3	190	105+38.40	RTE D	27.6' RT	3.0													4				8	(2)	3-12"	
1-5A_7		4	190	109+48.95	RTE D	28.22' RT	5.6													6				13	(5)	3-12"	
1-5C_1		3	190	103+31.42	RTE D	23.53' RT	4.0								4									6	(3)	1-12"	
1-5E_1		3	190	105+38.40	RTE D	33.59' RT	2.9								2									5	(2)	1-12"	
1-5G_1		4	190	109+48.95	RTE D	37.40' RT	4.5									5								9	(4)	1-12"	
1-5H_1		2	189	100+99.28	RTE D	26.54' LT	6.3										7							16	(8)	1-12", 1-24"X36", 1-36"	
1-5H_2		2	---	100+66.25	RTE D	34.50' LT	2.2	30																---	---	1-12"	
1-5H_3		2	190	100+98.17	RTE D	34.36' LT	6.6													7				12	(6)	3-12"	
1-5I_1		2	190	101+24.17	RTE D	33.28' LT	4.0								4									7	(3)	1-12"	
1-5J_1		2	189	101+45.83	RTE D	26.50' LT	6.3										7							14	(8)	2-36"	
1-5J_2		3	189	102+55.10	RTE D	26.50' LT	6.3										7							17	(8)	1-24", 2-36"	
1-5J_3		3	189	103+31.60	RTE D	26.5' LT	5.5										6							13	(7)	2-36"	
1-5J_4		3	189	104+12.37	RTE D	26.5' LT	6.0										6							13	(7)	2-36"	
1-5J_5		3	189	104+85.86	RTE D	26.5' LT	6.0										6							13	(7)	2-36"	
1-5J_6		3	189	106+47.02	RTE D	26.5' LT	6.0										6							13	(7)	2-36"	
1-5J_7		3	189	106+56.70	RTE D	29.41' LT	---			1														---	---	1-10", 2-24", 1-36"	
1-5J_8		4	189	107+41.95	RTE D	26.5' LT	5.0										5							10	(6)	2-24"	
1-5J_9		4	189	108+11.05	RTE D	26.5' LT	5.0										5							10	(6)	2-24"	
1-5J_10		4	189	109+29.59	RTE D	26.5' LT	5.0										5							10	(6)	2-24"	
1-5J_11		4	189	110+85.95	RTE D	26.56' LT	6.5										7							18	(8)	1-15", 2-24"	
1-5J_12		4	189	111+71.25	RTE D	26.5' LT	6.5										7							15	(8)	1-24"	
1-5K_1		3	190	102+74.06	RTE D	52.27' LT	3.0												3					7	(2)	1-18"	
1-5L_1		3	190	106+73.80	RTE D	51.51' LT	4.3												4					9	(4)	1-24"	
1-5M_1		4	190	111+13.10	RTE D	52.17' LT	4.0												4					9	(4)	1-15"	
	17J2-064C	6	192	119+90.60	RTE D	39.0 LT	7.0													7				14	(6)	1-10", 2-24"	
	17H1-001D	7	192	124+65.22	RTE D	30.3 LT	5.1													6				7	(4)	1-12", 2-18"	
	17H1-052C	7	192	124+05.07	RTE D	41.9 LT	9.4													10				18	(9)	1-10", 2-18"	
	17H1-055C	7	192	124+49.28	RTE D	42.3 LT	7.8													8				15	(7)	1-8", 1-12", 2-18"	
2-3A_1		6	191	119+67.48	RTE D	31.1 RT	8.3													9				16	(8)	2-18", 1-24", 1-48"	
2-3A_2		6	191	119+77.11	RTE D	20.4 RT	5.9													6				11	(5)	1-10", 2-18"	

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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ROUTE D
QUANTITY SHEET
22 OF 32

DRAINAGE STRUCTURES

STRUCT. ID.	MSD STRUCT. NO.	DU SHEET X OF 16	CULVERT SECTION SHEET	STATION	ROADWAY	LOCATION	ACTUAL DEPTH	12 IN. SLOTTED DRAIN (LF)	SIDEWALK TRENCH DRAIN (EA)	CONVERT INLET TO MANHOLE (EA)	SINGLE STREET INLET (FT)	DOUBLE STREET INLET (FT)	2 GRATE INLET WITH SIDE INTAKE (FT)	4-WAY AREA INLET (FT)	PRECAST CONCRETE DROP INLET 2 FT X 2 FT (FT)	PRECAST CONCRETE DROP INLET 3FTX2FT 6 IN (FT)	PRECAST CONCRETE DROP INLET 5 FT X 3 FT (FT)	PRECAST CONCRETE DROP INLET 3 FT X 2 FT (FT)	PRECAST CONCRETE DROP INLET 4 FT X 2 FT (FT)	PRECAST CONCRETE MANHOLE - 48 IN. (FT)	PRECAST CONCRETE MANHOLE - 60 IN. (FT)	PRECAST CONCRETE MANHOLE - 72 IN. (FT)	PRECAST CONCRETE MANHOLE - 84 IN. (FT)	CLASS 3 EXCAVATION (CUYD)	GRANULAR BACKFILL (CUYD)	PIPE OPENINGS (NUMBER - SIZE)	REMARKS
2-3A_3		6	191	120+58.82	RTE D	24.5 RT	5.5													6				11	(5)	2-18"	
2-3A_5		7	191	124+66.24	RTE D	28.2 RT	5.3													6				10	(4)	2-18"	
2-3A_6		7	191	126+54.79	RTE D	28.1 RT	5.3													6				10	(4)	3-12"	
2-3A_7		7	191	127+27.12	RTE D	18.4 RT	7.0								7									10	(6)	1-12"	TRAPPED
2-3B_1		7	191	126+58.44	RTE D	35.8 RT	7.0								7									10	(6)	1-12"	TRAPPED
2-5A_1		6	192	120+21.36	RTE D	37.7 LT	6.8															7		20	(8)	2-12", 1-18", 2-24"	
2-5A_2		6	192	120+36.35	RTE D	42.1 LT	7.7													8				14	(7)	1-18", 1-24"	
2-5A_3		7	192	123+87.80	RTE D	42.0 LT	9.2													10				17	(9)	1-12", 1-18"	
2-5A_4		7	192	124+16.20	RTE D	41.4 LT	8.9													9				17	(8)	3-18"	
2-5A_8		7	192	127+86.95	RTE D	29.5 LT	6.9													7				12	(6)	2-18"	
2-5A_9		7	192	127+99.61	RTE D	21.5 LT	6.2									7								10	(6)	1-12", 1-18"	TRAPPED
2-5A_10		8	192	129+22.02	RTE D	21.5 LT	4.4													5				9	(3)	3-12"	
2-5A_11		8	192	129+94.60	RTE D	21.5 LT	5.8									6								10	(6)	1-12"	
2-5E_1		7	193	124+17.57	RTE D	55.8 LT	6.0											6						10	(6)	1-12"	TRAPPED
2-5H_1		7	193	124+65.38	RTE D	21.5 LT	6.0										6							13	(7)	1-12"	TRAPPED
2-5I_1		8	193	129+40.13	RTE D	51.2 LT	4.6								4									6	(3)	1-12"	
2-5J_1		6	193	120+32.86	RTE D	27.5 LT	6.5										7							16	(8)	1-12"	TRAPPED
2-5K_1		7	193	123+87.80	RTE D	21.6 LT	9.0									9								10	(10)	1-12"	TRAPPED
	17H1-067D	10	194	139+95.24	RTE D	55.3' RT	6.4								6									9	(5)	1-24", 1-30"	R. EX. INLET
	17H1-068D	10	194	140+52.14	RTE D	35.1 RT	7.4														8			20	(8)	1-12", 2-30"	R. EX. INLET
	17H1-074D	10	194	140+42.24	RTE D	35.6' LT	5.7															6		16	(6)	1-15", 1-18", 1-24"	R. EX. INLET
3-1C_1		10	194	140+32.66	RTE D	42.1' RT	7.1								7									10	(6)	2-30"	
3-2C_1		10	194	140+52.61	RTE D	21.2' RT	4.0								4									6	(3)	1-12"	
3-3C_1		10	194	139+60.48	RTE D	30.6' RT	5.0													5				10	(4)	2-24"	
3-3C_2		10	194	139+43.60	RTE D	31.0' RT	5.5									6								9	(5)	1-18", 1-24"	
3-3C_3		9	194	138+19.25	RTE D	30.5' RT	4.0								4									6	(3)	2-18"	
3-3C_4		9	194	136+70.97	RTE D	30.4' RT	4.0								4									6	(3)	1-18"	
3-1E_1		10	194	140+41.33	RTE D	23.5' LT	4.6								4									6	(4)	2-18"	
3-1E_2		10	194	140+09.13	RTE D	24.0' LT	4.0								4									6	(3)	2-18"	
3-1E_3		9	194	138+22.67	RTE D	26.8' LT	4.0								4									6	(3)	2-18"	
3-1E_4		9	194	136+36.12	RTE D	27.0' LT	4.0								4									6	(3)	1-12", 1-18"	
3-1E_5		9	194	135+00.47	RTE D	32.3' LT	5.0													5				9	(4)	2-12"	
3-1E_6		9	194	133+76.73	RTE D	23.0' LT	4.0								4									6	(3)	1-12"	
	17H1-089D	12	195	153+62.93	RTE D	39.0' RT	----			1														----	---	1-12", 2-36"	
	17H1-090D	13	195	155+12.53	RTE D	34.7' RT	4.0													5				6	(3)	3-12"	R. EX. INLET
	17H1-091D	12	195	153+65.41	RTE D	40.5' LT	5.9															6		18	(7)	1-30", 1-36"	R. EX. INLET
	17H1-092D	13	195	154+30.79	RTE D	36.4' LT	7.6														8			16	(8)	1-12", 1-24", 1-30"	R. EX. INLET
	17H1-093D	13	195	156+37.24	RTE D	28.6' RT	3.6									4								6	(3)	2-12"	R. EX. INLET
	17H1-094D	13	195	156+37.55	RTE D	40.4' LT	----			1														----	---	2-24"	
	17H1-096D	13	195	158+26.08	RTE D	40.9' LT	6.6														7			13	(7)	1-12", 2-24"	R. EX. INLET

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PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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ROUTE D

QUANTITY SHEET
23 OF 32

DRAINAGE STRUCTURES

STRUCT. ID.	MSD STRUCT. NO.	DU SHEET X OF 16	CULVERT SECTION SHEET	STATION	ROADWAY	LOCATION	ACTUAL DEPTH	12 IN. SLOTTED DRAIN (LF)	SIDEWALK TRENCH DRAIN (EA)	CONVERT INLET TO MANHOLE (EA)	SINGLE STREET INLET (FT)	DOUBLE STREET INLET (FT)	2 GRATE INLET WITH SIDE INTAKE (FT)	4-WAY AREA INLET (FT)	PRECAST CONCRETE DROP INLET 2 FT X 2 FT (FT)	PRECAST CONCRETE DROP INLET 3FTX2FT 6 IN (FT)	PRECAST CONCRETE DROP INLET 5 FT X 3 FT (FT)	PRECAST CONCRETE DROP INLET 3 FT X 2 FT (FT)	PRECAST CONCRETE DROP INLET 4 FT X 2 FT (FT)	PRECAST CONCRETE MANHOLE - 48 IN. (FT)	PRECAST CONCRETE MANHOLE - 60 IN. (FT)	PRECAST CONCRETE MANHOLE - 72 IN. (FT)	PRECAST CONCRETE MANHOLE - 84 IN. (FT)	CLASS 3 EXCAVATION (CUYD)	GRANULAR BACKFILL (CUYD)	PIPE OPENINGS (NUMBER - SIZE)	REMARKS
4-1C_1		12	195	157+22.05	RTE D	26.6' RT	4.0									4								5	(3)	2-12"	
4-1C_2		14	195	159+84.41	RTE D	29.5' RT	4.0									4								6	(3)	1-12"	
4-2C_1		12	195	153+63.57	RTE D	21.5' RT	7.4									8								12	(8)	2-36"	
4-2C_2		12	195	153+64.63	RTE D	24.3' LT	7.0									7								12	(7)	2-36"	
4-2C_3		13	195	155+32.49	RTE D	38.4' LT	5.6														6			11	(5)	2-24"	
4-2C_4		13	195	156+69.45	RTE D	40.5' LT	4.7														5			11	(4)	1-12", 2-24"	
4-2C_5		13	195	159+33.74	RTE D	32.5' LT	5.0									5								8	(5)	1-15", 1-24"	
4-2C_6		14	195	160+59.40	RTE D	34.3' LT	4.5					5												18	(7)	2-15"	
4-2C_7		14	195	161+18.42	RTE D	37.9' LT	4.0								4									6	(3)	1-12", 1-15"	
4-2C_8		14	195	162+03.28	RTE D	26.6' LT	4.0								4									6	(3)	1-12"	
4-3C_1		13	196	155+12.51	RTE D	18.5' RT	3.0								3									4	(2)	1-12"	
4-4C_1		13	196	154+30.80	RTE D	23.1' LT	4.0									4								6	(3)	1-12"	
4-5C_1		13	196	155+32.33	RTE D	29.2' LT	4.0									4								6	(3)	1-12"	
4-6C_1		13	196	156+69.43	RTE D	32.0' LT	4.0									4								6	(3)	1-12"	
4-7C_1		14	196	158+26.08	RTE D	32.0' LT	4.0									4								6	(3)	1-12"	
-		14	-	161+53.40	RTE D	44.23' RT	---		1															---	---	---	
	17H2-029D	16	197	170+89.33	RTE D	31.8' LT	4.7													5				9	(4)	1-24", 1-27"	
	17H2-0463C	16	197	172+88.45	RTE D	3.08' LT	15.7													16				30	(16)	1-18", 2-24"	
5-2A_1		16	197	172+88.15	RTE D	22.4' RT	7.9													8				15	(7)	1-12", 1-18"	
5-2B_1		16	197	170+99.34	RTE D	22.4' RT	7.0				7		7											13	(6)	2-18"	42" DIA. BASE; TRAPPED
5-2B_2		15	197	169+92.23	RTE D	26.3' RT	5.0				5		5											9	(4)	1-12", 1-18"	42" DIA. BASE
5-2B_3		15	197	168+96.64	RTE D	23.8' RT	5.5					6												23	(9)	2-12"	
5-2B_4		15	197	168+23.74	RTE D	20.0' RT	5.0													5				10	(4)	3-12"	
5-2B_5		15	197	166+89.65	RTE D	18.5' RT	4.0				4		4											8	(3)	2-12"	42" DIA. BASE
5-2B_6		15	197	166+30.50	RTE D	25.4' RT	6.0				6		6											8	(5)	1-12"	42" DIA. BASE
5-2C_1		15	197	168+24.22	RTE D	37.2' RT	4.0				4		4											8	(3)	1-12"	42" DIA. BASE
5-3A_1		15	197	169+99.69	RTE D	28.6' LT	7.5							8										13	(7)	2-24"	42" DIA. BASE; TRAPPED
5-3A_2		15	197	168+88.44	RTE D	32.1' LT	8.4																	17	(8)	1-15", 2-24"	42" DIA. BASE
5-3A_3		15	197	168+32.63	RTE D	36.8' LT	9.4				10		10											17	(9)	2-12", 1-24"	42" DIA. BASE
5-3A_4		15	197	166+89.49	RTE D	18.5' LT	7.5				8		8											14	(7)	2-12"	42" DIA. BASE
5-3A_5		15	197	166+39.08	RTE D	26.5' LT	4.0				4		4											8	(3)	1-12"	42" DIA. BASE
																								1197	**(575)**		STRUCTURE SUBTOTAL
																								4668	(2091)		PIPES SUBTOTAL
TOTAL								**30**	**1**	**4**	**48**	**11**	**48**	**8**	**96**	**87**	**87**	**6**	**18**	**192**	**39**	**19**	**7**	**5865**	**(2666)***		

*GRANULAR BACKFILL SHOWN FOR INFORMATION PURPOSES ONLY. NO DIRECT PAY

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ENGINEERING CORPORATION - 000631

ROUTE D

QUANTITY SHEET
24 OF 32

DRAINAGE STRUCTURE LIDS

STRUCT. ID.	MSD STRUCT. NO.	CULVERT SECTION SHEET	STATION	ROADWAY	LOCATION	GRATE AND BEARING PLATE (3 FT. X 2 FT.) (EA)	CURVED VANE GRATE AND FRAME (2 FT. X 2 FT.) (EA)	CURVED VANE GRATE AND FRAME (4 FT. X 2 FT.) (EA)	MANHOLE FRAME AND COVER, TYPE 3 (EA)	MANHOLE FRAME AND COVER, TYPE 4 (EA)	REMARKS
	16J3-044D	188	280+26.35	ROUTE D	34.00' RT				1		
1-1C_1		188	280+13.94	ROUTE D	26.20' RT		1				
1-2B_1		188	283+04.38	ROUTE D	31.41 RT		1				
1-2B_2		188	283+04.12	ROUTE D	37.68' RT				1		
1-4A_0		188	282+87.21	ROUTE D	41.90' LT				1		
1-4A_2		188	283+26.18	ROUTE D	44.04' LT			1			
1-4B_1		188	282+87.09	ROUTE D	29.36' LT		1				
1-5A_1		188	100+98.17	ROUTE D	28.05' RT					1	
1-5A_2		188	103+24.60	ROUTE D	27.76' RT				1		
1-5A_5		190	105+38.40	ROUTE D	27.6' RT				1		
1-5A_7		190	109+48.95	ROUTE D	28.22' RT				1		
1-5C_1		190	103+31.42	ROUTE D	23.53' RT		1				
1-5E_1		190	105+38.40	ROUTE D	33.59' RT		1				
1-5H_3		190	100+98.17	ROUTE D	34.36' LT				1		
1-5I_1		190	101+24.17	ROUTE D	33.28' LT		1				
1-5K_1		190	102+74.06	ROUTE D	52.27' LT			1			
1-5L_1		190	106+73.80	ROUTE D	51.51' LT			1			
1-5M_1		190	111+13.10	ROUTE D	52.17' LT			1			
	17J2-064C	192	119+90.60	ROUTE D	39.0 LT					1	
	17H1-001D	192	124+65.22	ROUTE D	30.3 LT				1		
	17H1-052C	192	124+05.07	ROUTE D	41.9 LT				1		
	17H1-055C	192	124+49.28	ROUTE D	42.3 LT				1		
2-3A_1		191	119+67.48	ROUTE D	31.1 RT				1		
2-3A_2		191	119+77.11	ROUTE D	20.4 RT					1	
2-3A_3		191	120+58.82	ROUTE D	24.5 RT					1	
2-3A_5		191	124+66.24	ROUTE D	28.2 RT					1	
2-3A_6		191	126+54.79	ROUTE D	28.1 RT					1	
2-3A_7		191	127+27.12	ROUTE D	18.4 RT		1				
2-3B_1		191	126+58.44	ROUTE D	35.8 RT		1				
2-5A_1		192	120+21.36	ROUTE D	37.7 LT				1		
2-5A_2		192	120+36.35	ROUTE D	42.1 LT				1		
2-5A_3		192	123+87.80	ROUTE D	42.0 LT				1		
2-5A_4		192	124+16.20	ROUTE D	41.4 LT				1		
2-5A_8		192	127+86.95	ROUTE D	29.5 LT				1		
2-5A_10		192	129+22.02	ROUTE D	21.5 LT				1		
2-5E_1		193	124+17.57	ROUTE D	55.8 LT	1					
2-5I_1		193	129+40.13	ROUTE D	51.2 LT		1				
	17H1-067D	194	139+95.24	ROUTE D	55.3' RT		1				
	17H1-068D	194	140+52.14	ROUTE D	35.1 RT				1		
	17H1-074D	194	140+42.24	ROUTE D	35.6' LT				1		
3-1C_1		194	140+32.66	ROUTE D	42.1' RT		1				
3-2C_1		194	140+52.61	ROUTE D	21.2' RT		1				
3-3C_1		194	139+60.48	ROUTE D	30.6' RT				1		
3-3C_3		194	138+19.25	ROUTE D	30.5' RT		1				
3-3C_4		194	136+70.97	ROUTE D	30.4' RT		1				
3-1E_1		194	140+41.33	ROUTE D	23.5' LT		1				
3-1E_2		194	140+09.13	ROUTE D	24.0' LT		1				

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ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ENGINEERING CORPORATION - 000631

ROUTE D

QUANTITY SHEET
25 OF 32

DRAINAGE STRUCTURE LIDS

STRUCT. ID.	MSD STRUCT. NO.	CULVERT SECTION SHEET	STATION	ROADWAY	LOCATION	GRATE AND BEARING PLATE (3 FT. X 2 FT.) (EA)	CURVED VANE GRATE AND FRAME (2 FT. X 2 FT.) (EA)	CURVED VANE GRATE AND FRAME (4 FT. X 2 FT.) (EA)	MANHOLE FRAME AND COVER, TYPE 3 (EA)	MANHOLE FRAME AND COVER, TYPE 4 (EA)	REMARKS
3-1E_3		194	138+22.67	ROUTE D	26.8' LT		1				
3-1E_4		194	136+36.12	ROUTE D	27.0' LT		1				
3-1E_5		194	135+00.47	ROUTE D	32.3' LT				1		
3-1E_6		194	133+76.73	ROUTE D	23.0' LT		1				
	17H1-090D	195	155+12.53	ROUTE D	34.7' RT				1		
	17H1-091D	195	153+65.41	ROUTE D	40.5' LT				1		
	17H1-092D	195	154+30.79	ROUTE D	36.4' LT				1		
	17H1-096D	195	158+26.08	ROUTE D	40.9' LT				1		
4-2C_3		195	155+32.49	ROUTE D	38.4' LT				1		
4-2C_4		195	156+69.45	ROUTE D	40.5' LT				1		
4-2C_7		195	161+18.42	ROUTE D	37.9' LT		1				
4-2C_8		195	162+03.28	ROUTE D	26.6' LT		1				
4-3C_1		196	155+12.51	ROUTE D	18.5' RT		1				
	17H2-029D	197	170+89.33	ROUTE D	31.8' LT					1	
	17H2-0463C	197	172+88.45	ROUTE D	3.08' LT					1	
5-2A_1		197	172+88.15	ROUTE D	22.4' RT					1	
5-2B_4		197	168+23.74	ROUTE D	20.0' RT					1	
TOTAL						1	22	4	27	10	

DRAINAGE PIPES

CULVERT SECTION SHEET	TO STRUCT.	FROM STRUCT.	12 IN. PIPE GROUP A (LF)	15 IN. PIPE GROUP A (LF)	18 IN. PIPE GROUP A (LF)	21 IN. PIPE GROUP A (LF)	24 IN. PIPE GROUP A (LF)	30 IN. PIPE GROUP A (LF)	36 IN. PIPE GROUP A (LF)	PIPE COLLAR, TYPE C (EA)	CLASS 3 EXCAVATION (CUYD)	GRANULAR BACKFILL (CUYD)	REMARKS
188	16J3-044D	1-1C_1	13								3	(2)	
188	1-2B_2	1-2B_1	6								---	---	ALL EARTHWORK INCIDENTAL TO PIPE
188	1-4A_0	1-4B_1	8								4	(2)	
188	1-4A_1	1-4A_2				8				1	9	(5)	
188	1-5A_1	1-5A_2							226		325	(103)	
189	1-5H_1	1-5J_1							47		55	(15)	
189	1-5J_1	1-5J_2							109		143	(21)	
189	1-5J_2	1-5J_3							77		95	(17)	
189	1-5J_3	1-5J_4							81		98	(22)	
189	1-5J_4	1-5J_5							73		87	(33)	
189	1-5J_5	1-5J_6							164		209	(29)	
189	1-5J_6	1-5J_7							10		1	(0)	
189	1-5J_7	1-5J_8					85				77	(32)	
189	1-5J_8	1-5J_9					69				54	(19)	
189	1-5J_9	1-5J_10					118				97	(23)	
189	1-5J_10	1-5J_11					156				152	(69)	
189	1-5J_11	1-5J_12			85						77	(42)	
190	1-5A_2	1-5C_1	8								1	(0)	
190	1-5A_5	1-5E_1	6								---	---	ALL EARTHWORK INCIDENTAL TO PIPE
190	1-5A_7	1-5G_1	9								1	(1)	
190	1-5H_1	1-5H_3	8								---	---	ALL EARTHWORK INCIDENTAL TO PIPE
190	1-5H_3	1-5I_1	27								12	(10)	
190	1-5J_2	1-5K_1			32						14	(3)	
190	1-5J_7	1-5L_1					28				17	(8)	
190	1-5J_11	1-5M_1		37							17	(8)	
191	2-3A_1	2-3A_2	15								7	(4)	
191	2-3A_2	2-3A_3	82								75	(39)	
191	2-3A_3	2-3A_5	406								363	(157)	
191	2-3A_5	2-3A_6	191								158	(84)	

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
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ROUTE D
QUANTITY SHEET
26 OF 32

DRAINAGE PIPES

CULVERT SECTION SHEET	TO STRUCT.	FROM STRUCT.	12 IN. PIPE GROUP A (LF)	15 IN. PIPE GROUP A (LF)	18 IN. PIPE GROUP A (LF)	21 IN. PIPE GROUP A (LF)	24 IN. PIPE GROUP A (LF)	30 IN. PIPE GROUP A (LF)	36 IN. PIPE GROUP A (LF)	PIPE COLLAR, TYPE C (EA)	CLASS 3 EXCAVATION (CUYD)	GRANULAR BACKFILL (CUYD)	REMARKS
191	2-3A_6	2-3A_7	73								56	(26)	
191	2-3A_6	2-3B_1	9								2	(1)	
192	17JS-064C	2-5A_1					31				30	(11)	
192	2-5A_1	2-5A_2					16				9	(6)	
192	2-5B_1	2-5A_1			11					1	6	(3)	
192	2-5A_1	2-5C_1	11								2	(1)	
192	2-5A_3	17H1-052C			17						14	(11)	
192	17H1-052C	2-5A_4			12						6	(5)	
192	2-5A_4	1741-055C			33						32	(17)	
192	1741-055C	17H1-001D			20						10	(6)	
192	17H1-001D	2-5A_8			322						310	(174)	
192	2-5A_8	2-5A_9			15						6	(4)	
192	2-5A_9	2-5A_10	122								79	(32)	
192	2-5A_10	2-5A_11	73								54	(32)	
193	2-5A_4	2-5E_1			15						7	(4)	
193	17H1-001D	2-5H-1	8								1	(0)	
193	2-5A_10	2-5I_1	32								17	(11)	
193	2-5A_1	2-5J_1			11						5	(4)	
193	2-5A_3	2-5K_1	21								9	(7)	
194	17H1-067D	3-3C_1					43				32	(10)	
194	3-3C_1	3-3C_2					17				8	(4)	
194	3-3C_2	3-3C_3			124						81	(37)	
194	3-3C_3	3-3C_4			148						85	(23)	
194	3-2C_1	17H1-068D	13.46								4	(2)	
194	17J1-074D	3-1E_1			12						3	(2)	
194	3-1E_1	3-1E_2			32						13	(3)	
194	3-1E_2	3-1E_3			187						90	(13)	
194	3-1E_3	3-1E_4			187						104	(27)	
194	3-1E_4	3-1E_5	125								66	(45)	
194	3-1E_5	3-1E_6	125								64	(40)	
195	17H1-091D	17H1-092D						66			79	(46)	
195	4-2C_5	4-2C_6		126							85	(44)	
195	4-2C_6	4-2C_7		59							36	(24)	
195	4-2C_7	4-22C_8	86								52	(36)	
195	17H1-093D	4-1C_1	85								24	(28)	
195	4-1C_1	4-1C_2	262								134	(30)	
196	17H1-090D	4-3C_1	16								5	(3)	
196	17H1_092D	4-4C_1	13								3	(2)	
196	4-2C_3	4-5C_1	9								0.4	(0.4)	
196	4-2C_4	4-6C_1	8								---	---	ALL EARTHWORK INCIDENTAL TO PIPE
196	17H1-096D	4-7C_1	9								0.5	(0.4)	
197	17H2-0463C	5-2A_1			26						25	(17)	
197	5-2A_1	5-2B_1			186						142	(91)	
197	5-2B_1	5-2B_2			107						75	(32)	
197	5-2B_2	5-2B_3	92								49	(32)	
197	5-2B_3	5-2B_4	71								39	(26)	
197	5-2B_4	5-2B_5	132								68	(39)	
197	5-2B_5	5-2B_6	60								24	(23)	
197	5-2B_4	5-2C_1	17								4	(2)	
197	17H2-029D	5-3A_1					90				72	(22)	
197	5-3A_1	5-3A_2					115				124	(97)	
197	5-3A_2	5-3A_3					59				87	(57)	
197	5-3A_3	5-3A_4	149								165	(124)	
197	5-3A_4	5-3A_5	51								20	(8)	
											4668	(2091)	SUBTOTAL. SEE STRUCTURES FOR TOTAL
TOTAL			**2451**	**222**	**1582**	**8**	**827**	**66**	**787**	**2**	**---**	**---**	

*GRANULAR BACKFILL SHOWN FOR INFORMATION PURPOSES ONLY. NO DIRECT PAY.

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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

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ROUTE D
QUANTITY SHEET
27 OF 32

LIGHTING

DU LIGHTING SHEET (X OF 16)	FROM STATION	TO STATION	ROADWAY	LOCATION	30 FT. TOP MOUNT LIGHT POLE (EA)	TOP MOUNTED LED-A LUMINAIRE (EA)	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT) (EA)	CONDUIT, 4 IN. RIGID, IN TRENCH (LF)	CONDUIT, 4 IN. RIGID, PUSHED (LF)	TRENCHING TYPE I (LF)	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET (LF)	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG (LF)	PULL BOX, PREFORMED CLASS 1 (EA)	PULL BOX, PREFORMED CLASS 3 (EA)	PAD MOUNTED 240V/480V POWER SUPPLY AND LIGHTING CONTROLLER (EA)	REMARKS
2	100+29.91	100+23.63	RTE D	RT				13				21				CONTROLLER A TO PULL BOX A1
2	100+23.63		RTE D	RT										1		PULL BOX A1
2	100+23.63	100+20.79	RTE D	RT/LT					57			65				PULL BOX A1 TO PULL BOX A2
2	100+20.79		RTE D	LT									1			PULL BOX A2
2	100+20.79	102+50.25	RTE D	LT				232				237				PULL BOX A2 TO LIGHT A101
2	102+50.25		RTE D	LT	1	1	1				62					LIGHT A101
4	111+19.59		RTE D	RT											1	CONTROLLER B (LEAVE 120V METER SLOT EMPTY)
4	111+19.59	111+20.66	RTE D	RT				7				15				CONTROLLER B TO PULL BOX B1
4	111+20.66		RTE D	RT										1		PULL BOX B1
4	111+20.66	111+20.86	RTE D	RT						4		13				PULL BOX B1 TO LIGHT B101
4	111+20.86		RTE D	RT	1	1	1				62					LIGHT B101
8	129+21.92		RTE D	LT											1	CONTROLLER D (LEAVE 120V METER SLOT EMPTY)
8	129+21.92	129+14.35	RTE D	LT				11				22				CONTROLLER D TO PULL BOX D1
8	129+14.35		RTE D	LT										1		PULL BOX D1
8	129+14.35	129+14.19	RTE D	LT						16		24				PULL BOX D1 TO LIGHT D101
8	129+14.19		RTE D	LT	1	1	1				62					LIGHT D101
13	155+48.37	155+57.96	RTE D	RT				13				21				CONTROLLER E TO PULL BOX E1
13	155+57.96		RTE D	RT										1		PULL BOX E1
13	155+57.96	156+24.19	RTE D	RT					64			72				PULL BOX E1 TO PULL BOX E2
13	156+24.19		RTE D	RT									1			PULL BOX E2
13	156+24.19	157+69.14	RTE D	RT				144				152				PULL BOX E2 TO PULL BOX E3
13	157+69.14		RTE D	RT									1			PULL BOX E3
13	157+69.14	157+69.14	RTE D	RT/LT					67			75				PULL BOX E3 TO PULL BOX E4
13	157+69.14		RTE D	LT									1			PULL BOX E4
13	157+69.14	157+80.36	RTE D	LT						10		19				PULL BOX E4 TO LIGHT E101
13	157+80.36		RTE D	LT	1	1	1				62					LIGHT E101
13-14	157+80.36	159+70.53	RTE D	LT				19		167		196				LIGHT E101 TO LIGHT E102
14	159+70.53		RTE D	LT	1	1	1				62					LIGHT E102
14-15	159+70.53	165+84.97	RTE D	LT				189		426		625				LIGHT E102 TO LIGHT E103
15	165+84.97		RTE D	LT	1	1	1				62					LIGHT E103
15	165+84.97	167+31.36	RTE D	LT						126		136				LIGHT E103 TO LIGHT E104
15	167+31.36		RTE D	LT	1	1	1				62					LIGHT E104
SUBTOTAL					-	-	-	-	-	-	434	1693	-	-	-	
5% FOR SNAKING					-	-	-	-	-	-	456	1778	-	-	-	
TOTAL					**7**	**7**	**7**	**628**	**188**	**749**	**460**	**1780**	**4**	**4**	**2**	

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Cassandra McKee Lee - Civil
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ENGINEERING CORPORATION - 000631

ROUTE D

QUANTITY SHEET
28 OF 32

GRG LIGHTING

DU LIGHTING SHEET (X OF 16)	FROM STATION	TO STATION	ROADWAY	LOCATION	GRG 12 FT. PEDESTRIAN LIGHT POLE (EA)	GRG PEDESTRIAN LED LUMINAIRE (EA)	GRG POLE FOUNDATION (12 FT. MOUNTING HEIGHT) (EA)	GRG CONDUIT, 4 IN. RIGID, IN TRENCH (LF)	GRG TRENCHING TYPE I (LF)	GRG CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET (LF)	GRG CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG (LF)	GRG PULL BOX, PREFORMED CLASS 1 (EA)	REMARKS
6	120+46.90		RTE D	RT								1	PULL BOX C1
6	120+46.90	121+04.35	RTE D	RT				61			66		PULL BOX C1 TO LIGHT C401
6	121+04.35		RTE D	RT	1	1	1			34			LIGHT C401
6	121+04.35	121+62.73	RTE D	RT				66			68		LIGHT C401 TO LIGHT C402
6	121+62.73		RTE D	RT	1	1	1			34			LIGHT C402
6	121+62.73	122+04.35	RTE D	RT					42		52		LIGHT C402 TO LIGHT C403
6	122+04.35		RTE D	RT	1	1	1			34			LIGHT C403
6	122+04.35	122+54.37	RTE D	RT					50		60		LIGHT C403 TO LIGHT C404
6	122+54.37		RTE D	RT	1	1	1			34			LIGHT C404
6	122+54.37	123+04.35	RTE D	RT					50		60		LIGHT C404 TO LIGHT C405
6	123+04.35		RTE D	RT	1	1	1			34			LIGHT C405
6-7	123+04.35	123+54.35	RTE D	RT					50		60		LIGHT C405 TO LIGHT C406
7	123+54.35		RTE D	RT	1	1	1			34			LIGHT C406
7	123+54.35	124+04.35	RTE D	RT					50		60		LIGHT C406 TO LIGHT C407
7	124+04.35		RTE D	RT	1	1	1			34			LIGHT C407
7	124+04.35	124+54.35	RTE D	RT					50		60		LIGHT C407 TO LIGHT C408
7	124+54.35		RTE D	RT	1	1	1			34			LIGHT C408
7	124+54.35	125+04.35	RTE D	RT					50		60		LIGHT C408 TO LIGHT C409
7	125+04.35		RTE D	RT	1	1	1			34			LIGHT C409
7	125+04.35	125+54.35	RTE D	RT					50		60		LIGHT C409 TO LIGHT C410
7	125+54.35		RTE D	RT	1	1	1			34			LIGHT C410
7	125+54.35	126+04.35	RTE D	RT					50		60		LIGHT C410 TO LIGHT C411
7	126+04.35		RTE D	RT	1	1	1			34			LIGHT C411
			SUBTOTAL		-	-	-	-	-	374	666	-	
			5% FOR SNAKING		-	-	-	-	-	393	699	-	
			TOTAL		11	11	11	127	442	400	700	1	

TEMPORARY PAVEMENT MARKING

PLAN SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	4 IN. TEMPORARY PAVEMENT MARKING PAINT, WHITE (LF)	TEMPORARY PAVEMENT MARKING (EA)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	PAVEMENT MARKING REMOVAL (LF)	REMARKS
1-16	278+90.00	173+00.00	ROUTE 115	RT	7600				RIGHT OUTSIDE LANE CLOSURE
1-16	278+90.00	173+00.00	ROUTE 115	LT	7600				LEFT OUTSIDE LANE CLOSURE
1-16	278+90.00	173+00.00	ROUTE 115	LT/RT		30	30	3000	TO BE USED AS DIRECTED BY THE ENGINEER
TOTAL					15200	30	30	3000	

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ROUTE D

QUANTITY SHEET
29 OF 32

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PROFESSIONAL ENGINEER

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

CMT
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CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

PAVEMENT MARKING

ROUTE	PVMT MRK SHEET X OF 16	STATION	STATION	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 6 IN. WHITE LF	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 4 IN. YELLOW LF	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4 IN. WHITE LF	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4 IN. YELLOW LF	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24 IN. WHITE* LF	24 IN. X 36 IN., YIELD LINE TRIANGLES* EA	ARROWS STR* EA	ARROWS LT* EA	ARROWS RT* EA	LANE REDUCTION EA	ARROWS STR - BIKE* EA	HELMETED BICYCLIST SYMBOL EA	WORD (ONLY) EA	24" IN. YELLOW	PAVEMENT MARKING REMOVALS LF
ROUTE D	1	279+50.00	281+25.00	RT/LT	216	346			14										
ROUTE D	2	281+25.00	102+00.00	RT/LT	1409	752			208		1	4	2		2	4	2		
PENNSYLVANIA AVE	2						165	199	196		1	2	1		2	4			
ROUTE D	3	102+00.00	107+25.00	RT/LT	1760	1317			89	10		4			2	2			
ROUTE D	4	107+25.00	112+56.00	RT/LT	1849	1350			93	12		2			2	2			
ROUTE D	5	112+56.00	118+00.00	RT/LT	1835	609			152			5	2		5	3			
FERGUSON AVE	5								134			2							
ROUTE D	6	118+00.00	123+25.00	RT/LT	1425	1265			25			5							
ROUTE D	7	123+25.00	128+50.00	RT/LT	899	1313			27										
ROUTE D	8	128+50.00	133+75.00	RT/LT	764	1332			88	8		2							
ROUTE D	9	133+75.00	138+50.00	RT/LT	927	1382													
ROUTE D	10	138+50.00	143+75.00	RT/LT	1082	1178			76			2						35	
KINGSLAND AVE	10						11	22	82			1	1						
ROUTE D	11	143+75.00	149+00.00	RT/LT	1047	2438												167	1740
ROUTE D	12	149+00.00	154+25.00	RT/LT	1153	1898						1						114	290
ROUTE D	13	154+25.00	159+50.00	RT/LT	1050	881			142	8		4							
OGDEN AVE	13								112										
ROUTE D	14	159+50.00	164+75.00	RT/LT	888	1313			33			2							
ROUTE D	15	164+75.00	170+00.00	RT/LT	900	1313			69	8		2							
ROUTE D	16	170+00.00	173+00.00	RT/LT	682	503			158			2		2					
ROUTE D SUBTOTAL					17886	19190	176	221	1698	46	2	40	6	2	13	15	2	316	2030
PAY TOTAL					17886	19190	176	221	1698	46	2	46		2	13	15	2	316	2030

*SEE SPECIAL PROVISIONS FOR BLACK CONTRAST BORDER FOR THERMOPLASTIC PAVEMENT MARKINGS.

ISLAND TUBULAR MARKERS

PVMT MRK SHEET X OF 16	ROUTE	STATION	LOCATION	18 IN. WHITE EA	18 IN. YELLOW EA
2	D	282+32	LT	3	
3	D	103+42	CL		1
3	D	104+00	CL		1
5	D	116+80	LT	3	
6	D	120+50	LT	3	
7	D	124+90	LT	3	
7	D	126+10	RT	3	
8	D	130+26	CL		1
8	D	130+72	CL		1
10	D	138+60	CL		1
10	D	139+25	CL		1
10	D	30' SPACING	LT & RT	22	
11	D	30' SPACING	LT & RT	8	
12	D	30' SPACING	LT & RT	21	
13	D	156+50	LT	3	
13	D	158+76	CL		1
13	D	159+15	LT	3	
13	D	159+20	CL		1
14	D	160+85	RT	3	
14	D	162+00	LT	3	
15	D	166+35	RT	3	
15	D	166+50	CL		1
15	D	166+75	CL		1
16	D	171+00	RT	3	
			TOTAL	84	10

CURB REFLECTORS

PVMT MRK SHEET X OF 16	ROUTE	STATION	LOCATION	WHITE EA	YELLOW EA
3	D	103+42	CL		3
3	D	104+00	CL		3
5	D	116+80	LT	3	
6	D	120+50	LT	3	
7	D	124+90	LT	3	
7	D	126+10	RT	3	
8	D	130+26	CL		3
8	D	130+72	CL		3
10	D	138+60	CL		3
10	D	139+25	CL		3
13	D	156+50	LT	3	
13	D	158+76	CL		3
13	D	159+15	LT	3	
13	D	159+20	CL		3
14	D	160+85	RT	3	
14	D	162+00	LT	3	
15	D	166+35	RT	3	
15	D	166+50	CL		3
15	D	166+75	CL		3
16	D	171+00	RT	3	
			TOTAL	30	30

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ROUTE D

QUANTITY SHEET
SHEET 30 OF 32

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3215B
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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI
CIVIL DESIGN,INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

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RECTANGULAR RAPID FLASHING BEACON

SIGNING SHEET X OF 16	ROUTE	STATION	LOCATION	RRFB
				EA
3	D	103+50	LT	1
3	D	103+50	CL	1
3	D	103+77	CL	1
3	D	103+77	RT	1
4	D	111+80	CL	1
4	D	111+87	RT	1
4	D	111+96	LT	1
4	D	112+03	CL	1
8	D	130+45	CL	1
8	D	130+52	RT	1
8	D	130+55	LT	1
8	D	130+63	CL	1
13	D	158+88	CL	1
13	D	158+96	RT	1
13	D	158+97	LT	1
13	D	159+05	CL	1
15	D	166+52	CL	1
15	D	166+59	RT	1
15	D	166+61	LT	1
15	D	166+69	CL	1
			TOTAL	20

REMOVE AND RELOCATE EXISTING GROUND SIGNS

SIGNING SHEET X OF 16	SIGN NO.	ROUTE	STATION	LOCATION	EXISTING SIGN DESCRIPTION	REMOVE AND RELOCATE EX. GROUND SIGN
						EA
1	11	D	279+40	LT	BUS STOP	1
1	13	D	279+00	RT	BUS STOP	1
2	16	D	282+16	LT	MODOT ADOPT-A-HIGHWAY	1
2	19	D	283+85	LT	ST. LOUIS CO. ADOPT-A-HIGHWAY	1
3	25	D	103+50	LT	BUS STOP	1
4	36	D	111+64	LT	BUS STOP	1
7	51	D	126+87	RT	KINGSLAND / PAGE STREET NAMES	1
8	53	D	129+33	LT	KINGSLAND / PAGE STREET NAMES	1
8	59	D	129+71	RT	GRUNER PL / PAGE STREET NAMES	1
8	62	D	130+25	LT	BUS STOP	1
8	63	D	130+40	RT	BUS STOP	1
8	69	D	132+56	RT	GREGAN PL / PAGE STREET NAMES	1
10	74	D	140+41	RT	ST LOUIS CO POLICE AND FIRE	1
10	75	D	140+43	RT	SUTTER AVE / PAGE STREET NAMES	1
15	91	D	168+37	RT	R.M.MOORE AVE / PAGE STREET NAMES	1
					ROUTE D TOTAL	15

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED: 7/3/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
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DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN,INC.
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Missouri State Certificate of Authority #2002006804

ROUTE D

QUANTITY SHEET
SHEET 31 OF 32

EFFECTIVE 07-01-2025

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00	4	64.00			14	REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00	4	64.00			14	REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00	4	64.00			15	REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00	4	64.00			15	REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00	4	64.00				YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	2	32.00			11	BE PREPARED TO STOP
WO3-5	48X48	16.00	2	32.00			12	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00	4	64.00				MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00	4	64.00				MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	4	64.00			6A	MERGE (ARROW SYMBOL)
WO4-1aR	48X48	16.00	4	64.00			6A	MERGE (ARROW SYMBOL)
WO5-1	48X48	16.00	4	64.00			43	ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00	2	10.00			44A	NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00	4	64.00				BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00	2	32.00				TRUCK CROSSING (WITH FLAGS)
WO8-6c	48X48	16.00	2	32.00				TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	4	64.00				UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00	2	32.00				SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00	2	32.00				SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00	4	20.00				SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12- 5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25	6	37.50			44	ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	30	480.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD/BRIDGE/RAMP CLOSED AHEAD
WO20-4	48X48	16.00	2	32.00			7	ONE LANE ROAD AHEAD
WO20- 5	48X48	16.00	2	32.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00	2	32.00				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32.00			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	4	64.00			8	FLAGGER (SYMBOL, WITH FLAGS)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32.00			21	SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOCR EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E0S-1	36X48	12.00						GORE EXIT
E0S-2	48X36	12.00						EXIT OPEN
E0S-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00			1	ROAD WORK NEXT 1.5 MILES
GO20-2	48X24	8.00	2	16.00			26	END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	2	3.00			10	PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	10	60.00			54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00						DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25	4	53.00				STOP
R1-2	48TRI.	6.93	4	27.72				YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	6	72.00			4,25	SPEED LIMIT XX (SEE NOTE 8)
R3-1	48X48	16.00	2	32.00			3	NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	2	32.00			50, 4	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	2	12.50			45	LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	2	12.50			10	RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00	2	24.00			30	DO NOT PASS (SEE NOTE 8)
R4-2	36X48	12.00	2	24.00			31	PASS WITH CARE
R4-7a	36X48	12.00	4	48.00			42	KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00	4	48.00			42	KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	20	40.00				SIDEWALK CLOSED
R9-11L	24X18	3.00	15	45.00				SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00	15	45.00				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	8	160.00			13	FINE SIGN (SEE NOTE 8)
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	2	24.00			55	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00			57	WORK ZONE NO PHONE ZONE
GO25-1	48X24	8.00	2	16.00				SLOW VEHICLES
GO22-3	48X24	8.00	2	16.00				WET PAINT KEEP RIGHT
W11-2	48X48	16.00	10	160.00				PEDESTRIAN
R9-10	24X18	3.00	15	45.00				SIDEWALK CLOSED, USE OTHER SIDE

616-10.05	TOTAL	
CONSTRUCTION SIGNS	2800	
616-10.10	TOTAL	
RELOCATED SIGNS	0	

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99-01, TEMPORARY TRAFFIC CONTROL, LUMP SUM UNLESS NOTED OTHERWISE IN THE PLANS. THE QUANTTIES SHOWN ARE AN ESTIMATE ONLY AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
2. TEMPORARY TRAFFIC CONTROL SHOULD FOLLOW MODOT/MUTCD STANDARDS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING SIGNS OR DEVICES.
4. NO DIRECT PAYMENT WILL BE MADE TO COVER/UNCOVER EXISTING SIGNS OR TCP SIGNS.
5. CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.
6. SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
7. AWRS IS ONLY TO BE USED ON THE FIRST ROAD WORK AHEAD SIGN IN EACH DIRECTION.
8 CONST-3X IS TO BE USED ABOVE ALL R2-1 AND R4-1 DURING CONSTRUCTION.

LUMP SUM TEMPORARY TRAFFIC CONTROL	
TOTAL	1 LUMP SUM

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001	+++	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM LIKE)
6161022		CHANNELIZER (CONE)
6161025	300	CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	10	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	4**	FLASHING ARROW PANEL
616147		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	4**	CHANGEABLE MESSAGE SIGN 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
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/ RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/ RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/ RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6172013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6143223	2	FLAG ASSEMBLY
6152116	20	ADA COMPLIANT MOVEABLE BARRICADE

** NOT INCLUDED IN LUMP SUM FOR TEMPORARY TRAFFIC CONTROL

+++ INDICATES TMAs WILL BE REQUIRED FOR MOBILE OPERATIONS BUT AT NO DIRECT PAY. THE CONTRACTOR MAY USE OPTIONAL TMAs AT STATIONARY LOCATIONS OF HIS OR HER OWN CHOOSING BUT NO PAYMENT SHALL BE MADE FOR THESE TMAs.

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ROUTE D

QUANTITY SHEET
32 OF 32

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

CMT
ENGINEERING CORPORATION - 000631
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
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GENERAL PLAN SHEET NOTES

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

2. THE BASIS OF BEARING IS U.S. STATE PLANE NAD83 ZONE 2401 (MISSOURI EAST). VERTICAL DATUM IS NAVD88.

3. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 278+90.00 R1 TO STATION 173+00.00 R9, ROUTE D (PAGE AVE), A DISTANCE OF 1.47 MILES.

4. ALL STATION CALLOUTS ARE FROM THE CONSTRUCTION CENTERLINE FOR ROUTE D (PAGE AVE), UNLESS OTHERWISE NOTED.

5. SEE SIGNAL SHEETS FOR SIGNAL-RELATED REMOVALS.

6. SEE SIGNING SHEETS FOR SIGNING-RELATED REMOVALS.

7. SEE DU SHEETS FOR DRAINAGE-RELATED REMOVALS.

8. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE COMMISSION DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

9. SEE GEOMETRIC SHEETS FOR INTERSECTION STATION TIES, CURVE DATA, ANGLES AND COORDINATE POINT INFORMATION.

10. CONTRACTOR SHALL REFERENCE AND FOLLOW THE MODOT ADA CHECKLIST WHEN LAYING OUT AND CONSTRUCTING CURB RAMPS,LANDINGS, SIDEWALK, PAVED APPROACH PATHWAYS/CONNECTIONS, PEDESTRIAN SIGNALS, AND ANY OTHER PEDESTRIAN ITEMS ON THIS PROJECT.

11. ALL PROPOSED ENTRANCE CORNER RADII ARE 10' (MEASURED AT FACE OF CURB) UNLESS OTHERWISE NOTED.

12. THERE SHALL BE A MINIMUM OF 4 FOOT OF HORIZONTAL SIDEWALK CLEAR SPACE AROUND FEATURES SUCH AS EXISTING POWER POLES, EXISTING LIGHT POLES, EXISTING MAST ARMS, NEW SIGNAL MAST ARMS, NEW SIGNAL 8 FOOT TALL POSTS, AND ANY OTHER FEATURES THAT PROTRUDE ABOVE THE GROUND ALONG THE ROADSIDE WHERE THERE IS SIDEWALK.

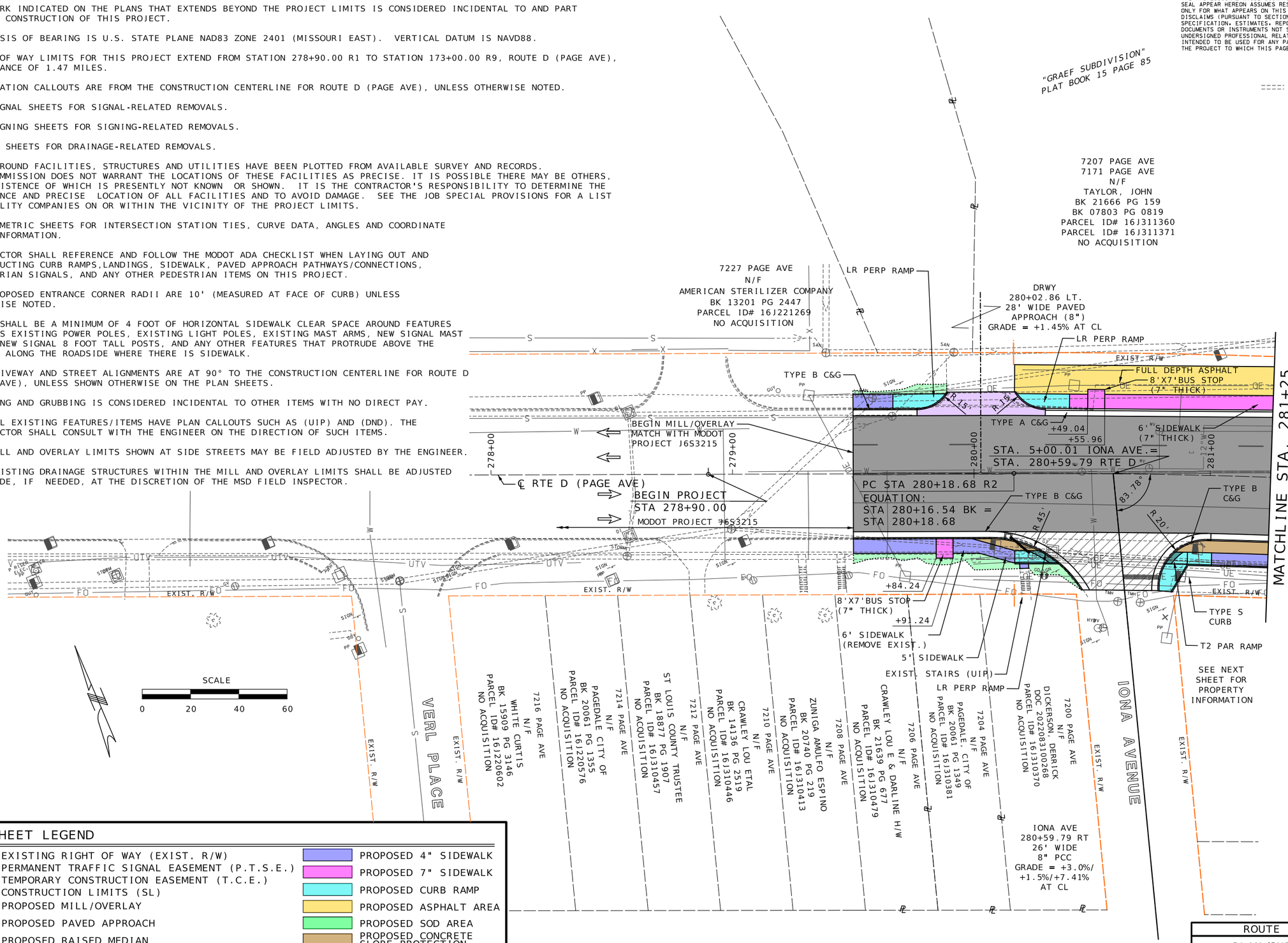
13. ALL DRIVEWAY AND STREET ALIGNMENTS ARE AT 90° TO THE CONSTRUCTION CENTERLINE FOR ROUTE D (PAGE AVE), UNLESS SHOWN OTHERWISE ON THE PLAN SHEETS.

14. CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO OTHER ITEMS WITH NO DIRECT PAY.

15. NOT ALL EXISTING FEATURES/ITEMS HAVE PLAN CALLOUTS SUCH AS (UIP) AND (DND). THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER ON THE DIRECTION OF SUCH ITEMS.

16. THE MILL AND OVERLAY LIMITS SHOWN AT SIDE STREETS MAY BE FIELD ADJUSTED BY THE ENGINEER.

17. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE MILL AND OVERLAY LIMITS SHALL BE ADJUSTED TO GRADE, IF NEEDED, AT THE DISCRETION OF THE MSD FIELD INSPECTOR.


"GRAEF SUBDIVISION" PLAT BOOK 15 PAGE 85
7207 PAGE AVE
7171 PAGE AVE
N/F
TAYLOR, JOHN
BK 21666 PG 159
BK 07803 PG 0819
PARCEL ID# 16J311360
PARCEL ID# 16J311371
NO ACQUISITION
7227 PAGE AVE
N/F
AMERICAN STERILIZER COMPANY
BK 13201 PG 2447
PARCEL ID# 16J221269
NO ACQUISITION
LR PERP RAMP
DRWY
280+02.86 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +1.45% AT CL
TYPE B C&G
EXIST. R/W
FULL DEPTH ASPHALT
8'X7'BUS STOP
(7" THICK)
TYPE A C&G
+49.04
+55.96
6' SIDEWALK
(7" THICK)
STA. 5+00.01 IONA AVE.=
STA. 280+59.79 RTE D
PC STA 280+18.68 R2
EQUATION:
STA 280+16.54 BK =
STA 280+18.68
TYPE B C&G
TYPE B C&G
+84.24
8'X7'BUS STOP
(7" THICK)
+91.24
6' SIDEWALK
(REMOVE EXIST.)
5' SIDEWALK
EXIST. STAIRS (UIP)
LR PERP RAMP
TYPE S CURB
T2 PAR RAMP
SEE NEXT SHEET FOR PROPERTY INFORMATION
MATCHLINE STA. 281+25
BEGIN MILL/OVERLAY
MATCH WITH MODOT
PROJECT J6S3215
℄ RTE D (PAGE AVE)
BEGIN PROJECT
STA 278+90.00
MODOT PROJECT #6S3215
278+00
279+00
280+00
281+00
SCALE
0 20 40 60
VERL PLACE
IONA AVENUE
7216 PAGE AVE N/F WHITE CURTIS BK 15909 PG 3146 PARCEL ID# 16J220602 NO ACQUISITION
7214 PAGE AVE N/F PAGEDALE CITY OF BK 20061 PG 1355 PARCEL ID# 16J220576 NO ACQUISITION
7212 PAGE AVE N/F ST LOUIS COUNTY TRUSTEE BK 18877 PG 1907 PARCEL ID# 16J310457 NO ACQUISITION
7210 PAGE AVE N/F CRAWLEY LOU ETAL BK 14136 PG 2519 PARCEL ID# 16J310446 NO ACQUISITION
7208 PAGE AVE N/F ZUNIGA AMULFO ESPINO BK 20740 PG 219 PARCEL ID# 16J310413 NO ACQUISITION
7206 PAGE AVE N/F CRAWLEY LOU E & DARLINE H/W BK 21639 PG 677 PARCEL ID# 16J310479 NO ACQUISITION
7204 PAGE AVE N/F PAGEDALE, CITY OF BK 20061 PG 1349 PARCEL ID# 16J310381 NO ACQUISITION
7200 PAGE AVE N/F DICKERSON, DERRICK DOC 202208310026B PARCEL ID# 16J310370 NO ACQUISITION
IONA AVE
280+59.79 RT
26' WIDE
8" PCC
GRADE = +3.0%/
+1.5%/+7.41%
AT CL
EXIST. R/W
EXIST. R/W
EXIST. R/W

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SCALE
0 20 40 60

1311 PENNSYLVANIA AVE
N/F
METRO ST. LOUIS SEWER DIST
BK 23718 PG 2071
PARCEL ID# 16J310545
NO ACQUISITION

SEE PREVIOUS SHEET FOR PROPERTY INFO

7201 PAGE AVE
N/F
AHMADI, BASHER
DOC.2022122900477
PARCEL ID# 16J310479
NO ACQUISITION

ST. LOUIS COUNTY PROJECT AR-1824

PENNSYLVANIA AVENUE

"SCANLON'S EXTENSION OF HAZEL HILL" PLAT BOOK 4 PAGE 53 BLOCK 6

7201 PAGE AVE
N/F
HZ PROPS RE LTD
BK 24636 PG 2013
PARCEL ID# 16J310435
NO ACQUISITION

7107 PAGE AVE
N/F
AFANEH GASSAN
BK 22748 PG 1982
PARCEL ID# 16J310358
NO ACQUISITION

TILLMAN LARRY ETAL J/T
BK 24261 PG 349
PARCEL ID# 16J310347
NO ACQUISITION

7105 PAGE AVE
N/F
LARRY ETAL J/T

LOT 1
LOT 2
LOT 3
LOT 4

(1) VOID
7101 PAGE AVE
7103 PAGE AVE
N/F
AFANEH THAIR
BK 20453 PG 1406
PARCEL ID# 16J310325
PARCEL ID# 16J311393
NO ACQUISITION

DRWY
281+71.86 LT.
30' WIDE PAVED APPROACH (8")
GRADE = -1.5%/-7.43% AT CL

DRWY
100+66.25 LT.
30' WIDE PAVED APPROACH (8")
GRADE = -3.0%/-1.0%
/+1.0% AT CL

DRWY
101+28.25 LT.
10' WIDE PAVED APPROACH (8")
GRADE = -3.5%/
+1.5%/+2.56% AT CL

DRWY
101+63.91 LT.
11' WIDE PAVED APPROACH (8")
GRADE = +0.39%
AT CL

DRWY
281+97.81 RT.
30' WIDE PAVED APPROACH (8")
GRADE = +4.0%
/+1.5% AT CL

PI	281+40.42
PC	280+18.68
PT	282+62.01
Δ	4°51'58.8" (RT)
D	1°59'59.6"
L	243.33' (ARC)
T	121.74'
R	2,864.95'

STA 283+03.27
OFF 78.16'
STA 283+26.77
OFF 70.48'
STA 283+86.42
OFF 69.89'
STA 100+11.40
OFF 22.00'

EQUATION:
STA 283+86.55 BK =
STA 99+41.60

PT STA 282+62.01 R2

MATCHLINE STA. 281+25

MATCHLINE STA. 102+00

FULL DEPTH ASPHALT
LR PERP RAMP
EXIST. FENCE (UIP)
SR PERP RAMP
5' SIDEWALK
EXIST. CURB & SIDEWALK (R)
EXIST. CURB (UIP) SR PERP RAMP
EXIST. SIGN (DND)
EXIST. ROCK LANDSCAPING (UIP)
TYPE S CURB
TYPE A C&G
TYPE B C&G
TYPE B C&G
6' SIDEWALK
EXIST. BRIDGE B0388 (UIP)
T2 PAR RAMP
TYPE S CURB
5' SIDEWALK TYPE B C&G
SIDEWALK TIE IN
EXIST. CURB (UIP)
EXIST. CURB (UIP)
EXIST. CURB (UIP)
EXIST. R/W
EXIST. SIDEWALK (UIP)
EXIST. BILLBOARD (UIP)
EXIST. DRWY (UIP)
EXIST. SIDEWALK (UIP)
EXIST. SIDEWALK (UIP)

℄ RTE D
(PAGE AVE)

STA. 5+00.00 PENNSYLVANIA AVE. =
STA. 283+84.99 RTE D

PENNSYLVANIA AVENUE

SEE SIGNAL SHEETS FOR SIGNAL RELATED ITEMS

7196 PAGE AVE
N/F
HIMA, NIDAL & DINA
BK 25136 PG 1172
PARCEL ID# 16J310314
NO ACQUISITION

7194 PAGE AVE UNIT A
N/F
BOMATIC EXPRESS LLC
BK 22841 PG 243
PARCEL ID# 16J310282
NO ACQUISITION

7194 PAGE AVE
N/F
FENG, LI ZHI
BK 18620 PG 2048
PARCEL ID# 16J310215
NO ACQUISITION

7116 PAGE AVE
N/F
GOLD MANAGEMENT INC
BK 22540 PG 79
PARCEL ID# 16J311304
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
2 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

DRWY
102+14.45 LT.
60' WIDE PAVED
APPROACH (8")
GRADE = +1.2% / 1.5% /
1.23% AT CL

1
SEE PREVIOUS SHEET
FOR PROPERTY INFO

MILFORD AVENUE

MILFORD AVE
103+08.83 LT
23' WIDE
8" PCC
GRADE = +1.50% /
+2.89% AT CL

2
7017 PAGE AVE
N/F
HIMA, NIDAL & DINA
H/W ETAL
BK 16828 PG 2434
PARCEL ID# 16K630084
323 SF TCE

DRWY
103+79.31 LT.
33' WIDE PAVED
APPROACH (8")
GRADE = +3.0%
/+1.5%
/+3.47% AT CL

"SCANLON'S EXTENSION OF HAZEL HILL"
PLAT BOOK 4 PAGE 53
BLOCK 5

LOT 4 LOT 3 LOT 2 LOT 1

DRWY
104+44.28 LT.
24' WIDE PAVED
APPROACH (8")
GRADE = +4.0%
/+1.0% AT CL

3
7013 PAGE AVE
7001 PAGE AVE
N/F
WEST PORT STL INC
BK 23913 PG 0134
BK 23945 PG 0474
PARCEL ID# 16J310172
PARCEL ID# 16J311294
746 SF TCE

DRWY
105+55.50 LT.
110' WIDE PAVED
APPROACH (8")
GRADE = +4.0%/+1.5%
/+2.99% AT CL

DRWY
106+48.34 LT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5% AT CL

COLBY AVENUE

COLBY AVE
107+06.25 LT
22' WIDE
8" PCC
GRADE = +3.0%/
+1.5%/+7.48%
AT CL

4
6917 PAGE AVE
N/F
FIELDS, HOWARD E
CHRISTINE E H/W
BK 10541 PG 0765
PARCEL ID# 16J320050
272 SF TCE

COMP PERP RAMP
TYPE B C&G
TYPE S CURB
T2 PAR RAMP
FULL DEPTH ASPHALT
FULL DEPTH
ASPHALT
5' SIDEWALK
EXIST. FENCE (UIP)
EX. SIGN
(UIP)
EXIST. SIDEWALK (R)
EIXST. CURB (R)
SR PERP RAMP
T.C.E.
EXIST. SIGNS (UIP)
EXIST. R/W
SR PERP RAMP
TYPE B C&G
10'X22' BUS STOP
(7" THICK)
6" CONCRETE MEDIAN STRIP
+83.92
+90.92
+70.56
+75.56
BUS STOP
EXIST. CURB (UIP)
EXIST. SIDEWALK (UIP)
EXIST. DRWY (UIP)

MATCHLINE STA. 102+00

MATCHLINE STA. 107+25

STA. 5+00.00 MILFORD AVE. =
STA. 103+08.83 RTE D

STA. 5+00.00 COLBY AVE. =
STA. 107+06.25 RTE D

EQUATION:
STA 105+16.10 BK =
STA 105+14.23

S62°14'41"E

STA. 5+00.00 GRIEFIELD PL =
STA. 104+33.86 RTE D

GRIEFIELD PLACE

CRTE D (PAGE AVE)

R 25'
R 20'
R 30'
R 17.5'
69.29°
68.84°
80°

SEE PREVIOUS SHEET
FOR PROPERTY INFO

7104 PAGE AVE
N/F
NATIONAL CAPITAL CORP
BK 07380 PG 2022
PARCEL ID# 17J631791
NO ACQUISITION

7100 PAGE AVE
N/F
FIELDS, HOWARD E CHRISTINE E H/W
BK 21639 PG 677
PARCEL ID# 17J631479
NO ACQUISITION

7020 PAGE AVE
7018 PAGE AVE
N/F
HANCE, MICHAEL R
BK 07811 PG 2238
BK 08074 PG 1007
PARCEL ID# 17J631670
PARCEL ID# 17J631658
NO ACQUISITION

7016 PAGE AVE
N/F
ROBERTS, RONALD L SR
BK 23039 PG 204
PARCEL ID# 17J631593
NO ACQUISITION

SEE NEXT
SHEET FOR
PROPERTY
INFORMATION

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
3 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\004-019_Plan Sheets_J6S3215B.dgn 7/3/2025

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SCALE
0 20 40 60

4
SEE PREVIOUS SHEET FOR PROPERTY INFO

5
6915 PAGE AVE
6913 PAGE AVE
N/F
NATOSHA SNOWDEN
DOC 2024091800356
PARCEL ID# 16J320038
PARCEL ID# 16J320016
260 SF TCE

6911 PAGE AVE
N/F
FULTON, WILLARD & ROSALYN H/W
BK 16429 PG 1049
PARCEL ID# 17J641592
NO ACQUISITION

6
6907 PAGE AVE
N/F
CROSS JANITORIAL SERVICES INC
BK 16498 PG 2322
PARCEL ID# 17J641844
482 SF TCE

LEROY AVE
111+46.05 LT
25' WIDE
8" PCC
GRADE = +2.15%/
+1.5% AT CL

6815 PAGE AVE
N/F
FIRST BAPTIST CHURCH OF MAPLEWOOD INC
DOC 2004021201266
PARCEL ID# 17J641790
NO ACQUISITION

DRWY
107+80.50 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +2.0%/+1.5%
/+3.37% AT CL

DRWY
108+42.65 LT
30' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+3.81% AT CL

DRWY
108+71.01 LT.
26.75' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+3.92% AT CL

DRWY
109+01.45 LT.
12' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+2.53% AT CL

DRWY
109+87.12 LT.
72.5' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+3.98% AT CL

DRWY
112+44.50 LT.
21.5' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+4.75% AT CL

STA. 5+00.00 LEROY AVE. =
STA. 111+46.05 RTE D

STA. 5+00.00 PURCELL AVE. =
STA. 107+56.85 RTE D

STA. 5+00.00 BUCKNER AVE. =
STA. 110+69.33 RTE D

MATCHLINE STA. 107+25

MATCHLINE STA. 112+65

LEROY AVENUE

PURCELL AVENUE

BUCKNER AVENUE

EXIST. TREE (UIP)
EXIST. BUSHES (UIP)
EXIST. FENCE (UIP)
EXIST. CURB (R)
EXIST. SIDEWALK (R)
EXIST. WALLS (UIP)
FULL DEPTH ASPHALT
5' SIDEWALK T.C.E.
T.C.E.
EXIST. R/W
SR PERP RAMP
TYPE B C&G
5' SIDEWALK
COMP PERP RAMP
10'X22' BUS STOP (7" THICK)
+96.94
+74.94
T1 PAR RAMP
6" RAISED CONCRETE MEDIAN
℄ RTE D (PAGE AVE)
6" CONCRETE MEDIAN STRIP
EXIST. CURB (UIP)
EXIST. DRWY (UIP)
EXIST. SIDEWALK (UIP)
BUS STOP
69.36°
69.71°
R 20'
R 50'

6918 PAGE AVE
N/F
RHYMES, GETER & GLENDA T/E
BK 23453 PG 228
PARCEL ID# 17J642009
NO ACQUISITION

6900 PAGE AVE
N/F
RHYMES, FREDERICK R
BK 23285 PG 200
PARCEL ID# 17J641954
NO ACQUISITION

6840 PAGE AVE
N/F
PAGEDALE GROCERY DEVELOPMENT LLC
BK 18475 PG 1452
PARCEL ID# 17J642010
NO ACQUISITION

7004 PAGE AVE
7000 PAGE AVE
N/F
FIELDS, HOWARD
BK 22955 PG 1894
BK 06878 PG 190
PARCEL ID# 17J631582
PARCEL ID# 17J631560
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
4 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

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SCALE
0 20 40 60

SEE PREVIOUS SHEET FOR PROPERTY INFO

PI	116+29.48
PC	114+94.14
PT	117+64.11
Δ	17°32'20.05" (LT)
D	6°31'50.0"
L	268.57' (ARC)
T	135.34'
R	877.35'

DRWY
112+97.16 LT.
12' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+4.05% AT CL

DRWY
114+39.26 LT.
9' WIDE PAVED
APPROACH (8")
GRADE = +0.75% AT CL

6763 PAGE AVE
N/F
PAGEDALE TOWN CENTER I LLC
BK 21076 PG 698
PARCEL ID# 17J642032
NO ACQUISITION

FERGUSON AVENUE

MATCHLINE STA. 112+65

MATCHLINE STA. 118+00

SR PERP RAMP
5' SIDEWALK
EXIST. STAIRS (UIP)
EXIST. WALL (UIP)
EXIST. VEGETATION (UIP)
BICYCLE RAMP
8' TRAIL
GRG TRAIL IMPROVEMENTS (BY OTHERS)
EXIST. SIDEWALK (UIP)
TYPE S CURB
TYPE B C&G
EXIST. SIDEWALK (R)
EXIST. CURB (R)
EXIST. STAIRS (UIP)
EXIST. R/W
PC STA 114+94.14 R5
℄ RTE D (PAGE AVE)
EQUATION: STA 114+94.10 BK = STA 114+94.14
STA. 5+00.00 FERGUSON AVE = STA. 116+14.30 RTE D
PT STA 117+64.11 R6
EQUATION: STA 117+62.71 BK = STA 117+64.11
PARKING
EXIST. CURB (UIP)
EXIST. DRWY (UIP)
EXIST. R/W
BICYCLE RAMP
SR PERP RAMP
EXIST. SIDEWALK (UIP)
T.C.E.
BUILDING (DND)
EXIST. SIDEWALK AGAINST BUILDING (UIP)
EXIST. SIDEWALK (R)
11' MULTI-USE TRAIL (7" THICK)
EXIST. CURB RAMP (UIP)

SEE PREVIOUS SHEET FOR PROPERTY INFO

6810 PAGE AVE
N/F
24:1 COMMUNITY LAND TRUST
BK 19656 PG 2301
PARCEL ID# 17J642021
NO ACQUISITION

7
SEE NEXT SHEET FOR PROPERTY INFO

UIP ALL EXIST. SIGNAL EQUIPMENT

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
5 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

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SCALE
0 20 40 60

SEE PREVIOUS SHEET
FOR PROPERTY INFO

6731 PAGE AVE
N/F
ROJO REALTY SRVCS LLC
BK 24592 PG 3769
PARCEL ID# 17J641185
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

6727 PAGE AVE
N/F
24:1 COMMUNITY LAND TRUST
BK 21414 PG 482
PARCEL ID# 17H431286
NO ACQUISITION

6719 PAGE AVE
N/F
ST. LOUIS BIBLEWAY
CHURCH INC
BK 07057 PG 1139
PARCEL ID# 17H432089
NO ACQUISITION

DRWY
121+45.91 LT.
30' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+5.91%
AT CL

BELRUE AVENUE

EXIST. SIDEWALK (UIP)
EXIST. R/W
PARKING
LANDSCAPING RESTORATION
TYPE S CURB
COMP PERP RAMP
EXIST. SIDEWALK (R)
EXIST. GUTTER (R)
5' SIDEWALK
6' SIDEWALK
TYPE S CURB
LR PERP RAMP
℄ RTE D (PAGE AVE)
6' SIDEWALK
PARKING
TYPE S CURB
MATCHLINE STA. 118+00
MATCHLINE STA. 123+25
119+00
120+00
121+00
122+00
123+00
R 30'
R 25'
12°
79°
STA. 5+00.00 BELRUE AVE =
STA. 120+06.14 RTE D
FULL-DEPTH PAVEMENT
EXIST. CURB (UIP)
EXIST. CURB (R)
LR PERP RAMP
R 15'
PARKING
TYPE S CURB
EXIST. R/W
T.C.E.
11' MULTI-USE TRAIL
(7" THICK)
TYPE S CURB
BUILDING AND FENCE
(DND)
BUILDING AND FENCE
(DND)
EXIST. WALL (UIP)
PLANTER BOXES (UIP)
9' MULTI-USE TRAIL
(7" THICK)

DRWY
120+90.00 RT.
22' WIDE PAVED
APPROACH (8")
GRADE = +4.0%/+1.5%
/+5.99% AT CL

DRWY
121+46.00 RT.
16' WIDE PAVED
APPROACH (8")
GRADE = +4.0%/+1.5%
/+6.0% AT CL

7

6746, 6744, 6740, 6734, 6732, 6724, 6720, 6718,
6716, 6714, 6712, 6710, 6708, 6702 PAGE AVE
1285 KINGSLAND AVE
N/F 24:1 COMMUNITY LAND TRUST
BK 23902 PG 2439, PARCEL ID# 17J642043
BK 20944 PG 886, PARCEL ID# 17J641691
BK 20780 PG 1793, PARCEL ID# 17J640920
BK 20780 PG 1818, PARCEL ID# 17J640898
BK 20780 PG 1822, PARCEL ID# 17J640931
BK 20780 PG 1822, PARCEL ID# 17H432078
BK 20780 PG 1785, PARCEL ID# 17H430964
BK 21896 PG 85, PARCEL ID# 17H440383
BK 22262 PG 862, PARCEL ID# 17H430946
BK 21590 PG 757, PARCEL ID# 17H430937
DOC 2023101800015, PARCEL ID# 17H440383
BK 21572 PG 2200, PARCEL ID# 17H430919
BK 21572 PG 2200, PARCEL ID# 17H430900
BK 21572 PG 2200, PARCEL ID# 17H430890
DOC 2023032400500, PARCEL ID# 17H430872
1791 SF TCE

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
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- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
6 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

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SCALE
0 20 40 60

SEE PREVIOUS SHEET FOR PROPERTY INFO

SHARE G 3

SHARE C 1

SHARE B

SEE NEXT SHEET FOR PROPERTY INFO

6715 PAGE AVE
6711 PAGE AVE
6709 PAGE AVE
N/F
24:1 COMMUNITY LAND TRUST
BK 21916 PG 370, PARCEL ID# 17H431143
BK 21994 PG 553, PARCEL ID# 17H432056
DOC 2022070700330, PARCEL ID# 17H431154
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

WOODRUFF AVENUE

EXIST. R/W

MATCHLINE STA. 123+25

MATCHLINE STA. 128+50

COMP PERP RAMP

R 25'

87.33°

124+00

125+00

126+00

127+00

128+00

6' SIDEWALK

TYPE S CURB

PARKING

STA 5+00.00 WOODRUFF AVE =
STA 124+34.27 RTE D

S79°47'01"E

℄ RTE D (PAGE AVE)

STA. 5+00.00 S KINGSLAND AVE =
STA. 126+55.48 RTE D

EXIST. SIDEWALK (R)

EXIST. GUTTER (R)

FULL DEPTH ASPHALT

SR PERP RAMP

5' SIDEWALK

EXIST. CURB (R)

TYPE B C&G

R 30'

86.61°

EXIST. SIDEWALK (R)

EXIST. CURB (R)

R 6'

R 15'

LR PERP RAMP

EXIST. WALL (UIP)

EXIST STAIRS & WALLS (UIP) (TYP.)

11' MULTI-USE TRAIL (7" THICK)

9' MULTI-USE TRAIL (7" THICK)

TIE IN TO GRG TRAIL IMPROVEMENTS (BO)

KINGSLAND AVENUE

DRWY 127+78.66 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = +0.71% AT CL

6698 PAGE AVE
N/F
PAGE REALTY LLC
BK 23254 PG 1661
PARCEL ID# 17H430881
NO ACQUISITION

ALLEY 128+11.33 RT.
11.3' WIDE PAVED
APPROACH (8")
GRADE = +0.7% AT CL

KINGSLAND AVE.
126+55.48 RT.
23.5' WIDE 8"
PCC PAVEMENT
GRADE = -1.0%
+1.4% AT CL

ROUTE D

PLAN SHEET
7 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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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SCALE
0 20 40 60

SHARE A

6707 PAGE AVE
N/F
NILKANTH 1837 LLC
BK 22547 PG 981
PARCEL ID# 17H431154
NO ACQUISITION

KINGSLAND AVE.
129+53.34 LT.
19' WIDE 8"
PCC PAVEMENT
GRADE = +1.21% AT CL

6617 PAGE AVE
N/F
PAGEDALE, CITY OF
BK 16937 PG 2512
PARCEL ID# 17H432111
NO ACQUISITION

6611 PAGE AVE
N/F
HINTON, CALVIN
BK 21334 PG 1064
PARCEL ID# 17H432122
NO ACQUISITION

6601 PAGE AVE
N/F
BENTON, ANTHONY
BK 12717 PG 1294
PARCEL ID# 17H431033
NO ACQUISITION

GREGAN PL.
132+33.62 LT.
13' WIDE 8"
PCC PAVEMENT
GRADE = +1.0%
AT CL

6533 PAGE AVE
6531 PAGE AVE
N/F
SNOWDEN, DWAYNE
BK 17925 PG 1095
PARCEL ID# 17H431011
BK 16275PG 1738
PARCEL ID# 17H431022
NO ACQUISITION

SEE NEXT SHEET
FOR PROPERTY INFO

DRWY
128+60.65 LT.
96' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/9.78% AT CL

DRWY
131+76.99 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +1.0%/
+9.34% AT CL

DRWY
131+52.63 LT.
36' WIDE PAVED
APPROACH (8")
GRADE = +1.0% AT CL

DRWY
132+97.96 LT.
11'WIDE PAVED
APPROACH (8")
GRADE = +5.0%/+1.5%
/+10.5% AT CL

KINGSLAND AVENUE

GREGAN PLACE

STA. 5+00.00 N KINGSLAND AVE =
STA. 129+53.34 RTE D

STA. 4+75.09 N GREGAN PL =
STA. 132+33.62 RTE D

MATCHLINE STA. 128+50

MATCHLINE STA. 133+75

COMP PERP RAMP
FULL DEPTH ASPHALT
EXIST. SIDEWALK (R)
EXIST. CURB (R)
5' SIDEWALK
EXIST. STAIRS (UIP)
EXIST. VEGETATION (UIP)
SR PERP RAMP
TYPE B C&G
6" CONCRETE MEDIAN STRIP
10'X22' BUS STOP (7 IN. THICK)
+56.61
+34.61
+73.61
+51.60
℄ RTE D (PAGE AVE)
STA. 5+00.00 GRUNER PL =
STA. 129+53.13 RTE D
PC STA 131+52.00 R7
EQUATION:
STA 131+59.64 BK =
STA 131+52.00
STA. 4+75.09 S GREGAN PL =
STA. 132+34.18 RTE D
93.32°
94.3°
85.55°
EXIST. R/W
FO
OE
G
W
SAN
SIGN
GUY
PP

GRUNER PLACE

GREGAN PLACE

6692 PAGE AVE
N/F
PAGEDALE, CITY OF
BK 14927 PG 2841
PARCEL ID# 17H430863
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

GRUNER PL.
129+53.08 RT.
23.5' WIDE 8"
PCC PAVEMENT
GRADE = -5.0%/-1.5% /-6.24% AT CL

1228 GRUNER PL
N/F
NATIONSTAR MORTGAGE LLC
BK 20938 PG 758
PARCEL ID# 17H430854
NO ACQUISITION

ALLEY 131+00.71 RT.
10' WIDE PAVED
APPROACH (8")
GRADE = -3.0%/-1.5%
/-6.11% AT CL

1231 GREGAN PL
N/F
WILDER, STEPHANIE R
DOC 2023040600298
PARCEL ID# 17H440383
NO ACQUISITION

GREGAN PL.
132+34.18 RT.
20' WIDE 8"
PCC PAVEMENT
GRADE = -4.5%/-1.5%
/-5.98% AT CL

1232 GREGAN PL
N/F
TONEY, JEROME C
DOC 2023050800228
PARCEL ID# 17H430818
NO ACQUISITION

DRWY
133+56.90 RT.
20' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+2.1% AT CL

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
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- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
8 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	1.1

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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- EXISTING RIGHT OF WAY (EXIST. R/W)
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- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
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- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

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SCALE
0 20 40 60

SEE NEXT SHEET FOR PROPERTY INFO

DRWY
134+04.79 LT.
20' WIDE PAVED
APPROACH (8")
GRADE = +2.05%/+1.5%
AT CL

6525 PAGE AVENUE
N/F
TEND PROPERTIES
BK 14752 PG 1773
PARCEL ID# 17H440361
NO ACQUISITION

DRWY
135+72.76 LT.
20' WIDE PAVED
APPROACH (8")
GRADE = +6.7%/+1.5%
AT CL

DRWY
137+05.91 LT.
50' WIDE PAVED
APPROACH (8")
GRADE = +3.38%/+1.5%
AT CL

MATCHLINE STA. 133+75

MATCHLINE STA. 138+50

SR PERP RAMP
5' SIDEWALK (REMOVE EXIST.)
DEPRESS CURB FOR DRAINAGE
PROPOSED SWALE
EXIST. CURB (R)
EXIST. R/W
SR PERP RAMP
5' SIDEWALK (REMOVE EXIST.)
SR PERP RAMP
+59.49
5' SIDEWALK (REMOVE EXIST.)
+06.92
+66.49
+15.20
TYPE B C&G
TYPE B C&G
TYPE B C&G
TYPE B C&G
12'X7' BUS STOP (7" THICK)
℄ RTE D (PAGE AVE)
PT STA 136+28.26 R8
R 12'
R 18.5'
134+00
135+00
136+00
137+00
138+00
LR PERP RAMP
LR PERP RAMP
TYPE A C&G
6' SIDEWALK, 7" THICK
TYPE A C&G
LR PERP RAMP
TYPE B C&G
5' SIDEWALK
TYPE B C&G
TYPE B C&G
6' SIDEWALK, 7" THICK
FULL DEPTH ASPHALT
LR PERP RAMP
LR PERP RAMP
EXIST. R/W
EQUATION:
STA 136+16.43 BK =
STA 136+28.26
+45.04
8'X7'BUS STOP (7" THICK)
+52.04
LR PERP RAMP
LR PERP RAMP
LR PERP RAMP

DRWY
134+53.56 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-3.37% AT CL

DRWY
135+00.97 RT.
24' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-1.57% AT CL

DRWY
136+65.54 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-3.01% AT CL

DRWY
138+07.43 RT.
54' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-2.77% AT CL

EXIST. R/W
EXIST. R/W

6520 PAGE AVE
N/F
ROJO REALTY
SERVICES LLC
BK 25078 PG 1009
PARCEL ID# 17H440141
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

PI	133+84.34
PC	131+52.00
PT	136+28.26
Δ	4°38'39.4" (RT)
D	1°0'0.0"
L	464.43' (ARC)
T	232.34'
R	5,729.60'

6516 PAGE AVE
6510 PAGE AVE
N/F
JPH REALTY LLC
BK 16784 PG 1969
BK 16784 PG 1969
PARCEL ID# 17H440130
PARCEL ID# 17H440121
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

"WATSON'S FRUIT HILL SUB."
PLAT BOOK 09 PAGE 80
BLOCK 15

ROUTE D
PLAN SHEET
9 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	12

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

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SCALE
0 20 40 60

6515 PAGE AVE
6515 PAGE AVE UNIT A
6513 PAGE AVE
N/F
SURMEIER HOLDINGS LLC
DOC 2022030200691, PARCEL ID# 16H120013
DOC 2022030200691, PARCEL ID# 17H440174
DOC 2022030200691, PARCEL ID# 17H440152
NO ACQUISITION

MATCHLINE STA. 138+50

EXIST. CURB (R)

SEE SIGNAL SHEETS FOR SIGNAL RELATED ITEMS

5' SIDEWALK (REMOVE EXIST.)

STANDPIPE

SR PERP RAMP

5' ADA PATH

EXIST. BARRIER & FENCE (UIP)

6" RAISED CONCRETE MEDIAN STRIP WITH SLOTS FOR DRAINAGE

12"W EXIST. R/W

6" CONCRETE MEDIAN STRIP

TYPE B C&G

SR PERP RAMP

PLOWABLE MEDIAN END

6' SIDEWALK
TYPE B C&G

LR PERP RAMP

T2 PAR RAMP

T3 PAR RAMP

T2 PAR RAMP

R 50'

R 30'

90°

STA. 5+00.00 SUTTER AVE =
STA. 140+12.05 RTE D

℄ RTE D (PAGE AVE)

6" RAISED CONCRETE MEDIAN STRIP WITH SLOTS FOR DRAINAGE

ADD FENCE

EXIST. BARRIER (UIP)
ADD FENCE

EXIST. R/W

EXIST. UTILITY ESM'T.

FULL DEPTH ASPHALT

TCE

PTSE

6' SIDEWALK

EXIST. FENCE (UIP)

EXIST. FENCE & WALL (UIP)

EXIST. SIDEWALK (ABANDON)

5' ADA PATH

PERP RAMP

DRWY
139+16.04 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
AT CL

SUTTER AVENUE

EXIST. R/W

EXIST. R/W

SEE PREVIOUS SHEET FOR PROPERTY INFO

6500 PAGE AVE
N/F
WHITE OAK JJK LLC
BK 22302 PG 2528
PARCEL ID# 17H440112
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

"WATSON'S FRUIT HILL SUB."
PLAT BOOK 09 PAGE 80
BLOCK 14

8

6490 PAGE AVE
6489 PAGE AVE
6482 PAGE AVE
6470 PAGE AVE
N/F
F&R PROPERTIES LLC
BK 17788 PG 2614, PARCEL ID# 17H440383
BK 17788 PG 2614, PARCEL ID# 17H440394
BK 17788 PG 2614, PARCEL ID# 17H440372
BK 17918 PG 3261, PARCEL ID# 17H440305
22 SF PTSE
115 SF TCE

6454 PAGE AVE
N/F
THROCKMARTIN PROPERTIES LLC
BK 20696 PG 3438
PARCEL ID# 17H420624
NO ACQUISITION

MATCHLINE STA. 143+75

ROUTE D
PLAN SHEET
10 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

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SCALE
0 20 40 60

6473 PAGE AVE
N/F
LAND CLEARANCE REDEV
AUTH OF STL CO
BK 07510 PG 0395
PARCEL ID# 17H440323
NO ACQUISITION

6501 PAGE AVE
N/F
BI-STATE DEVELOPMENT AGENCY
BK 08571 PG 0700
PARCEL ID# 17H440332
NO ACQUISITION

RAILROAD RIGHT-OF-WAY

SEE PREVIOUS SHEET
FOR PROPERTY INFO

SEE NEXT SHEET
FOR PROPERTY INFO

6" RAISED CONCRETE MEDIAN
STRIP WITH SLOTS FOR DRAINAGE

EXIST. BARRIER (UIP)
SEE BRIDGE PLANS FOR FENCE DETAILS

EXIST. R/W

PEDESTRIAN WALKING PATH ON BRIDGE SURFACE

℄ RTE D (PAGE AVE)

EXIST. BRIDGE A5328 (UIP)

PEDESTRIAN WALKING PATH ON BRIDGE SURFACE

MATCHLINE STA. 143+75

144+00 145+00 146+00 147+00 148+00

MATCHLINE STA. 149+00

MILL/OVERLAY LIMIT

ADD FENCE

EXIST. BARRIER (UIP)

EXIST. R/W

EXIST. BARRIER (UIP)
ADD FENCE

EXIST. FENCE (UIP)

6" RAISED CONCRETE MEDIAN
STRIP WITH SLOTS FOR DRAINAGE

CONCRETE
BARRIER
REPAIR

5' ADA PATH

6423 PLYMOUTH AVE
N/F
BI-STATE DEVELOPMENT AGENCY
BK 08542 PG 0700
PARCEL ID# 17H420671
NO ACQUISITION

RAILROAD RIGHT-OF-WAY

EXIST. BARRIER (UIP)
ADD FENCE
(SEE BRIDGE PLANS)

SEE NEXT SHEET
FOR PROPERTY INFO

SEE PREVIOUS SHEET
FOR PROPERTY INFO

CANTILEVER SIDEWALK W/ FENCE ON BRIDGE (R)

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
11 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\004-019_Plan Sheets_J6S3215B.dgn

7/3/2025

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SCALE
0 20 40 60

6451 PAGE AVE
6421 PAGE AVE
6441 PAGE AVE
N/F
UNION ELECTRIC COMPANY
BK 00318 PG 0391, PARCEL ID# 17H531513
BK 00318 PG 0391, PARCEL ID# 17H531816
BK 00318 PG 0391, PARCEL ID# 17H531504
NO ACQUISITION

6413 PAGE AVE
N/F
HUSTON, ROMON & STEPHANIE H/W
BK 21571 PG 1098
PARCEL ID# 17H530066
NO ACQUISITION

DRWY
153+38.36 LT.
25' WIDE PAVED APPROACH (8")
GRADE = +1.2%
AT CL

6" RAISED CONCRETE MEDIAN STRIP WITH SLOTS FOR DRAINAGE
EXIST. BARRIER (UIP) SEE BRIDGE PLANS FOR FENCE DETAILS
CONCRETE APPROACH PAVEMENT REPAIR
5' ADA PATH
6' RAISED CONCRETE MEDIAN
EXIST. CURB & SIDEWALK (R)
5' SIDEWALK
EXIST. R/W
EXIST. BARRIER & FENCE (UIP)
TYPE B C&G
R20
SR PERP RAMP
EXIST. BRIDGE A5328 (UIP)
℄ RTE D (PAGE AVE)
S75°08'22"E
MILL/OVERLAY LIMIT
EXIST. BARRIER (UIP) ADD FENCE
ADD FENCE
TYPE S CURB
EXIST. CURB (R)
EXIST. SIDEWALK (R)
EXIST. SIDEWALK (ABANDON)
EXIST. FENCE (UIP)
6" RAISED CONCRETE MEDIAN STRIP WITH SLOTS FOR DRAINAGE
EXIST. BARRIER (UIP) ADD FENCE (SEE BRIDGE PLANS)
CANTILEVER SIDEWALK W/ FENCE ON BRIDGE (R) SEE BRIDGE PLANS

MATCHLINE STA. 149+00
MATCHLINE STA. 154+25

150+00 151+00 152+00 153+00 154+00

9
6440 PAGE AVE
N/F
LAND CLEARANCE FOR REDEVELOPMENT AUTHORITY
BK 24178 PG 1003
PARCEL ID# 17H511092
274 SF TCE

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

ROUTE D
PLAN SHEET
12 OF 16

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

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"PAGE AVENUE HEIGHTS"
PLAT BOOK 03 PAGE 54
BLOCK 3
10
6411 PAGE AVE, 6407 PAGE AVE
6403 PAGE AVE, 6401 PAGE AVE
N/F
S&B CUT RATE ENTERPRISES
BK 21863 PG 635, PARCEL ID# 17H530055
BK 11383 PG 0160, PARCEL ID# 17H530044
BK 11383 PG 0160, PARCEL ID# 17H530033
BK 11383 PG 0154, PARCEL ID# 17H530022
59 SF TCE

DRWY
154+76.76 LT.
80' WIDE PAVED
APPROACH (8")
GRADE = +2.0%/+1.5%
AT CL

BUILDING (DND)
EXIST. FENCE (UIP)
EXIST. UTILITY ESM'T.
EXIST. R/W
OGDEN AVENUE
STA 154+55.23
OFF 17.00'
STA 155+72.20
OFF 52.54'
STA. 5+00.00 N OGDEN AVE =
STA. 155+88.19 RTE D
6339 PAGE AVE
N/F
S&B CUT RATE ENTERPRISES
BK 11383 PG 0152
PARCEL ID# 17H530011
NO ACQUISITION
6329 PAGE AVE
N/F
WELLSTON, CITY OF
DOC 20221025000303
PARCEL ID# 17H510871
NO ACQUISITION
DRWY
156+98.83 LT.
20' WIDE
PAVED APPROACH (8")
GRADE = +1.5% AT CL
6325 PAGE AVE
6323 PAGE AVE
N/F
JACKSON, SETERIA
BK 22021 PG 349, PARCEL ID# 17H510893
BK 22021 PG 349, PARCEL ID# 17H510842
NO ACQUISITION
DRWY
158+04.49 LT.
13' WIDE
PAVED APPROACH (8")
GRADE = +1.5%/+2.17%
AT CL
"PAGE AVENUE HEIGHTS"
PLAT BOOK 03 PAGE 54
BLOCK 2
6317 PAGE AVE
N/F
JACKSON, HELEN
BK 07380 PG 0035
PARCEL ID# 17H510833
NO ACQUISITION
6315 PAGE AVE
N/F
OWENS, HARE SHARON D ETAL I/T
BK 19929 PG 2036
PARCEL ID# 17H510824
NO ACQUISITION
6311 PAGE AVE
N/F
HARDIN REALTY LLC
BK 19541 PG 1208
PARCEL ID# 17H510815
NO ACQUISITION

COMP PERP RAMP
TYPE S CURB
STA 155+43.02
OFF 26.75'
SR PERP RAMP
EXIST. R/W
T.C.E.
R 20'
STA 155+28.61
OFF 23.40'
STA 155+57.85
OFF 32.50'
R 50'
R 35'
90°
5' SIDEWALK
DUAL PERP RAMP
LR PERP RAMP
EXIST. TIMBER WALL (UIP)
EXIST. VEGETATION (UIP)
EXIST. CURB (R)
EXIST. SIDEWALK (R)
(UIP)
6' SIDEWALK
TYPE S CURB
PARKING
LR PERP RAMP
SR PERP RAMP
℄ RTE D
(PAGE AVE)
MATCHLINE STA. 154+25
MATCHLINE STA. 159+50
155+00
156+00
157+00
158+00
159+00
TYPE B C&G
5' SIDEWALK
R 40'
STA 156+23.44
OFF 29.99'
R 25'
TYPE B C&G
6" CONCRETE MEDIAN STRIP
EXIST. CURB &
SIDEWALK (R)
EXIST. R/W
T.C.E.
STORM
STA 156+04.51
OFF 54.19'
5' SIDEWALK
STA 156+44.75
OFF 22.08'
STA 156+89.02
OFF 17.00'
SEE SIGNAL SHEETS
FOR SIGNAL RELATED ITEMS
STA. 5+00.00 S OGDEN AVE =
STA. 155+88.19 RTE D
OGDEN AVE.
155+88.19 RT.
27' WIDE 8"
PCC PAVEMENT
GRADE = -3.6%/
+1.5% AT CL
9
SEE PREVIOUS SHEET
FOR PROPERTY INFO
6334 PAGE AVE
6330 PAGE AVE
N/F
TOMPKINS, WILLIE P ETAL
BK 17509 PG 2390, PARCEL ID# 17H510732
BK 17509 PG 2390, PARCEL ID# 17H510723
NO ACQUISITION
DRWY
157+31.29 RT.
12' WIDE PAVED APPROACH (8")
GRADE = +1.5%/+4.39% AT CL
6328 PAGE AVE
N/F
HANCOCK, THOMAS A ANNIE M
BK - PG -
PARCEL ID# 17H510705
NO ACQUISITION
6326 PAGE AVE
N/F LAND CLEARANCE REDEV
AUTH OF STL CO
BK 12316 PG 2386
PARCEL ID# 17H510684
NO ACQUISITION
6324 PAGE AVE
N/F WELLSTON, CITY OF
BK 06848 PG 1613, PARCEL ID# 17H510673
NO ACQUISITION
DRWY
158+28.93 RT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+3.26% AT CL
6322 PAGE AVE
6318 PAGE AVE
6314 PAGE AVE
N/F
JONES, SMITH MICHELLE
BK 17743 PG 1762, PARCEL ID# 17H510662
BK 08920 PG 0410, PARCEL ID# 17H511058
BK 10369 PG 1775, PARCEL ID# 17H510631
NO ACQUISITION
DRWY
159+54.31 RT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+2.26% AT CL

SCALE
0 20 40 60

ROUTE D
PLAN SHEET
13 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

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D	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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SCALE
0 20 40 60

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D	MO
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SL	17

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ST. LOUIS
JOB NO.
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6309 PAGE AVE
N/F
JOHNSON, ANETRA F
BK 23457 PG 907
PARCEL ID# 17H521684
NO ACQUISITION

6307 PAGE AVE
N/F
SMITH, ELLIS
BK 23763 PG 204
PARCEL ID# 17H521651
NO ACQUISITION

6305 PAGE AVE
N/F ABSOLUTE VISION
PROPERTY & MANAGEMENT LLC
BK 25130 PG 125
PARCEL ID# 17H521622
NO ACQUISITION

6301 PAGE AVE
N/F
STEWART, DAVID
BK 07138 PG 1358
PARCEL ID# 17H521596
NO ACQUISITION

STEPHEN JONES AVENUE
EXIST. R/W

STEPHEN JONES AVE.
161+35.13 LT.
32' WIDE 8"
PCC PAVEMENT
GRADE = +0.88% AT CL

6251 PAGE AVE
N/F
AL PERRY HOUSING
RENTAL LLC
BK 23970 PG 1631
PARCEL ID# 17H521552
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

6429 PAGE AVE
N/F
EIZEMBER GROUP
BK 10910 PG 1317
PARCEL ID# 17H521512
NO ACQUISITION

DRWY
162+36.32 LT.
20' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+2.49% AT CL

6243 PAGE AVE
N/F
WELLSTON, CITY OF
BK 23085 PG 912
PARCEL ID# 17H521497
NO ACQUISITION

6429 PAGE AVE
N/F
WELLSTON, CITY OF
DOC. 202210500307
PARCEL ID# 17H521486
NO ACQUISITION

6239 PAGE AVE
6235 PAGE AVE
N/F
PAGE INN INC
BK 15556 PG 2061, PARCEL ID# 17H521464
BK 12484 PG 0666, PARCEL ID# 17H521442
NO ACQUISITION

6231 PAGE AVE
N/F
WELLSTON, CITY OF
BK 23085 PG 908
PARCEL ID# 16K630084
NO ACQUISITION

STA. 5+00.00 N STEPHEN JONES AVE =
STA. 161+35.13 RTE D

MATCHLINE STA. 159+50

SR PERP RAMP
5' SIDEWALK
TYPE S CURB
6' SIDEWALK
TYPE S CURB
R=25'
LR PERP RAMP
5' SIDEWALK
TYPE S CURB
+22.95
EXIST. R/W
PARKING
6' SIDEWALK
TYPE S CURB
+22.93
C RTE D (PAGE AVE)
160+00
161+00
162+00
163+00
164+00
6' SIDEWALK
TYPE B C&G
+91.22
LR PERP RAMP
TYPE S CURB
T2 PAR RAMP
LR PERP RAMP
TYPE S CURB
6' SIDEWALK
LR PERP RAMP
+96.73
TYPE S CURB
5' SIDEWALK
+29.02
TYPE B C&G
TYPE A GUTTER
LR PERP RAMP
EXIST. R/W
EXIST. R/W
GRAVEL
LR PERP RAMP
TYPE S CURB
SR PERP RAMP
COMP PERP RAMP
TYPE S CURB
T.C.E.
EXIST. SIGN (UIP)
EXIST. WALL & LANDSCAPING (UIP)
8' SIDEWALK (NEW BUS STOP)
DRWY
161+94.80 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-4.12% AT CL
EXIST. CURB (R)
EXIST. SIDEWALK (R)
SR PERP RAMP
LR PERP RAMP
STEPHEN JONES AVENUE
EXIST. R/W

STA. 5+00.00 S STEPHEN JONES AVE =
STA. 161+35.13 RTE D

MATCHLINE STA. 164+75

6310 PAGE AVE
N/F STEWART, DANIEL
BK 24713 PG 94, PARCEL ID# 17H510622
NO ACQUISITION

6308 PAGE AVE
N/F
STEWART, EULIUS T
BK 24713 PG 165
PARCEL ID# 17H510604
NO ACQUISITION

DRWY 160+35.05 RT.
11' WIDE PAVED
APPROACH (8")
GRADE=+1.5%/+2.9% AT CL

6306 PAGE AVE
N/F
GRE PAGE LLC
BK 24346 PG 1996
PARCEL ID# 17H521255
NO ACQUISITION

DRWY
160+73.81 RT.
20' WIDE PAVED
APPROACH (8")
GRADE = +1.0%
AT CL

6302 PAGE AVE
N/F
VEEJAY LLC
BK 18207 PG 330
PARCEL ID# 17H522168
NO ACQUISITION

BUILDING
(DND)

11
6250 PAGE AVE
N/F
WELLSTON FOOD MARKET INC
BK 21617 PG 676
PARCEL ID# 17H522157
185 SF TCE

STEPHEN JONES AVE.
161+35.13 RT.
37.5' WIDE 8" PCC
PAVEMENT
GRADE = -5.0%/
-1.5%/-4.67% AT CL

DRWY
162+97.76 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-2.85% AT CL

6244 PAGE AVE
N/F
SAID, MIKE ETAL
BK 12603 PG 2447
PARCEL ID# 17H521167
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

DRWY
163+51.18 RT.
40' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-6.60% AT CL

6240 PAGE AVE
N/F
WELLSTON FOOD MARKET INC
BK 23478 PG 1511
PARCEL ID# 17H521167
NO ACQUISITION

6236 PAGE AVE
N/F
REAL ESTATE HOLDINGS
PLUS LLC
BK 23506 PG 1536
PARCEL ID# 17H521156
NO ACQUISITION

DRWY
164+42.18 RT.
24' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+10.5%
/+16.48% AT CL

6230 PAGE AVE
N/F
PAGE INN INC
BK 15108 PG 2682
PARCEL ID# 17H522333
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
14 OF 16

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

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SCALE
0 20 40 60

6201 PAGE AVE
N/F
CLAYTON CAPITAL ASSETS LLC
BK 22327 PG 474
PARCEL ID# 17H521301
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

SEE NEXT SHEET
FOR PROPERTY INFO

MORTON AVENUE

DRWY
167+53.46 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +1.0%/-1.5%
/-2.44% AT CL

6225 PAGE AVE
N/F
SMITH, DAVID W
BK 07265 PG 0155
PARCEL ID# 17H521402
NO ACQUISITION

6221 PAGE AVE
N/F
WELLSTON, CITY OF
DOC. 202305170051 6
PARCEL ID# 17H521398
NO ACQUISITION

6219 PAGE AVE
N/F
SUMERIN, NASER H
BK 19631 PG 751
PARCEL ID# 17H521376
NO ACQUISITION

6215 PAGE AVE
N/F
LACY, LAWRENCE
BK 21852 PG 1099
PARCEL ID# 17H521354
NO ACQUISITION

6211 PAGE AVE
N/F
WILSON, MYRON
BK 21608 PG 239
PARCEL ID# 17H521343
NO ACQUISITION

MATCHLINE STA. 164+75

℄ RTE D (PAGE AVE)

PARKING

6' SIDEWALK
TYPE S CURB

5' SIDEWALK

TYPE B C&G

10'X22' BUS STOP
(7" THICK)

6" CONCRETE
MEDIAN STRIP
TYPE S CURB

EXIST. WALL (R)
6' SIDEWALK
TYPE S CURB

SR PERP RAMP

EXIST. R/W

EXIST. SIDEWALK (R)
EXIST. CURB (R)

EXIST. WALL (UIP)
EXIST. STAIRS (UIP)

T.C.E.

EXIST. WALL (UIP)
LR PERP RAMP

EXIST. STAIRS (R)

6' SIDEWALK

EXIST. WALL & STAIRS (UIP)

PC STA 167+40.56 R9

EQUATION:
STA 167+40.86 BK =
STA 167+40.56

DRWY
166+25.42 RT.
7.5' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+10.5%
+25.48% AT CL

BUILDING
(DND)

DRWY
167+61.84 RT.
110' WIDE PAVED
APPROACH (8")
GRADE = +0.82% AT CL

FENCE (UIP)
PARKING AREA (UIP)

6200 PAGE AVE
N/F
MORIZ LLC
BK 21894 PG 2100
PARCEL ID# 17H522047
NO ACQUISITION

12
6220 PAGE AVE
6216 PAGE AVE
N/F
WALKER, KENNETH TRUSTEE
BK 16115 PG 0228, PARCEL ID# 17H521080
BK 16115 PG 0228, PARCEL ID# 17H521068
465 SF TCE

SEE PREVIOUS SHEET
FOR PROPERTY INFO

6212 PAGE AVE
N/F
FAIZAN, SHAIKA ABDUL
BK 23787 PG 375
PARCEL ID# 17H521035
NO ACQUISITION

PI	168+59.83
PC	167+40.56
PT	169+76.66
Δ	20°1'16.9" (RT)
D	8°28'48.4"
L	236.10' (ARC)
T	119.27'
R	675.65'

MORTON AVE.
168+52.34 RT.
28' WIDE 8" PCC
PAVEMENT
GRADE = +1.0% AT CL

SR PERP RAMP
EXIST. VEGETATION (UIP)
STA 168+82.65
OFF 35.11'
PROPOSED SWALE

STA. 5+00.00 N MORTON AVE =
STA. 168+81.67 RTE D

STA 169+02.20
OFF 17.00'

STA 169+38.80
OFF 19.50'

STA 169+97.88
OFF 26.12'

STA 168+21.53
OFF 19.50'

R 20'
60.98°
90°

PT STA 169+76.66 R9

MATCHLINE STA. 170+00

MORTON AVENUE
STA. 5+00.00 S MORTON AVE =
STA. 168+53.81 RTE D

6162 PAGE AVE
N/F
ADAMS, BRIAN
BK 23739 PG 447
PARCEL ID# 17H520944
NO ACQUISITION

6156 PAGE AVE
6154 PAGE AVE
6152 PAGE AVE
N/F
WALKER, KENNETH TRUSTEE
BK 16115 PG 0228, PARCEL ID# 17H520870
BK 16115 PG 0228, PARCEL ID# 17H520843
BK 16115 PG 0228, PARCEL ID# 17H520807
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

ROUTE D
PLAN SHEET
15 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\004-019_Plan Sheets_J6S3215B.dgn

7/3/2025

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SCALE
0 20 40 60

6161 PAGE AVE
6155 PAGE AVE
6143 PAGE AVE
N/F
S&B CUT RATE ENTERPRISES
BK 10766 PG 1259, PARCEL ID# 17H521934
BK 10766 PG 1259, PARCEL ID# 17H521943
BK 10766 PG 1259, PARCEL ID# 17H521970
NO ACQUISITION

6131 PAGE AVE
N/F
ST. LOUIS COUNTY
BK 07353 PG 1278
PARCEL ID# 17H610520
NO ACQUISITION

6137 PAGE AVE
6135 PAGE AVE
N/F
KINGS FOOD PHILLIPS INC
BK 17403 PG 3503,
PARCEL ID# 17H520980
BK 19175 PG 889,
PARCEL ID# 17H610476
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED MILL/OVERLAY
- PROPOSED PAVED APPROACH
- PROPOSED RAISED MEDIAN
- FULL DEPTH PAVEMENT
- PROPOSED 4" SIDEWALK
- PROPOSED 7" SIDEWALK
- PROPOSED CURB RAMP
- PROPOSED ASPHALT AREA
- PROPOSED SOD AREA
- PROPOSED CONCRETE SLOPE PROTECTION
- PROPOSED GRAVEL AREA

MATCHLINE STA. 170+00

EXIST. R/W
EXIST. DRWY (UIP)
℄ RTE D (PAGE AVE)
EXIST. LPR (R)
PARKING
S55°07'05"E
TYPE B C&G
SR PERP RAMP
5' SIDEWALK
GRAVEL
LR PERP RAMP
FULL DEPTH ASPHALT
TYPE S CURB
MILL/OVERLAY LIMIT
FUTURE MODOT
PROJECT J6S3438
MODOT PROJECT J6S3438
STA 173+00.00 R9
END PROJECT
STA 173+00
SKINKER AVENUE

DRWY
170+19.77 RT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+1.83%
AT CL

DRWY
170+52.25 RT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+3.71%
AT CL

DRWY
170+81.67 RT.
24' WIDE PAVED
APPROACH (8")
GRADE = +1.5% AT CL

DRWY
171+96.95 RT.
36' WIDE PAVED
APPROACH (8")
GRADE = +2.5%/+1.5%
AT CL

SEE PREVIOUS SHEET
FOR PROPERTY INFO

6144 PAGE AVE
N/F
K A S JR ENTERPRISE LLC
DOC 2023062200500
PARCEL ID# 17H522113
NO ACQUISITION

6142 PAGE AVE
N/F
STROZIER, MARVIN L
& LORI T/E
BK 22071 PG 929
PARCEL ID# 17H520742
NO ACQUISITION

6140 PAGE AVE
6138 PAGE AVE
N/F
ST. LOUIS REALTY
INVESTMENTS LLC
BK 23782 PG 2460, PARCEL ID# 17H520694
BK 23782 PG 2463, PARCEL ID# 17H522311
NO ACQUISITION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

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ROUTE D
PLAN SHEET
16 OF 16

STANDARD SEWER CONSTRUCTION:

All storm and sanitary sewer structures and appurtenances to be dedicated to MSD, or to be Private Under MSD Inspection, shall conform to the Metropolitan St. Louis Sewer District, Standard Construction Specifications for Sewers and Drainage Facilities, 2023. That will include Standard Details shown therein, all subsequent changes made thereto, and shall also include the following:

PART 2 - MATERIALS OF CONSTRUCTION

SECTION G PIPE.

12. Corrugated Polypropylene Pipe.

d. Pipe for gravity sewer installations shall be installed in accordance with ASTM D2321. Consolidation by water (jetting or puddling) shall not be used. Consolidation shall be in accordance with MSD Standard Construction Specifications for trench backfill. Price for compacted backfill shall be included in pipe unit cost.

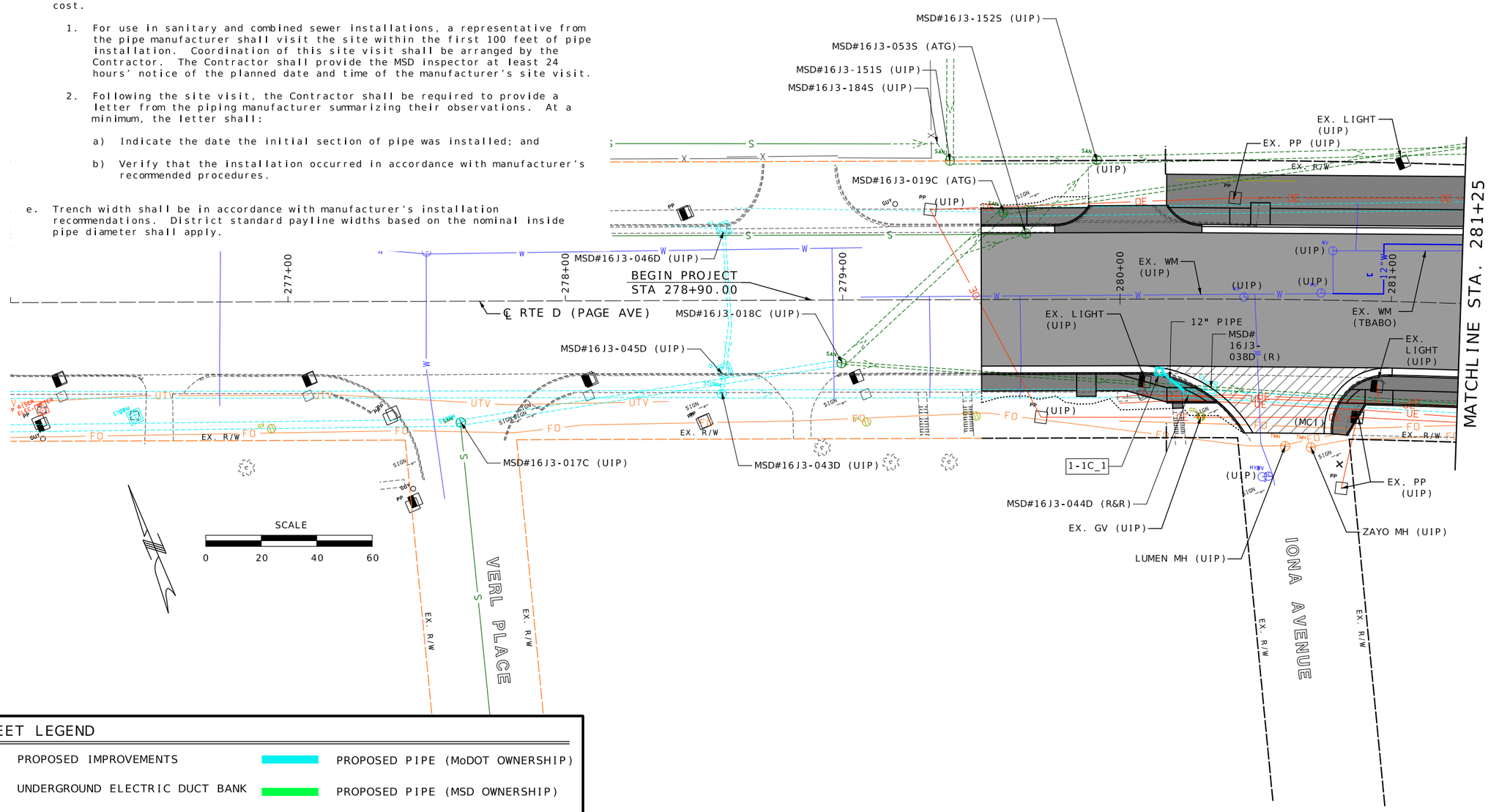
1. For use in sanitary and combined sewer installations, a representative from the pipe manufacturer shall visit the site within the first 100 feet of pipe installation. Coordination of this site visit shall be arranged by the Contractor. The Contractor shall provide the MSD inspector at least 24 hours' notice of the planned date and time of the manufacturer's site visit.

2. Following the site visit, the Contractor shall be required to provide a letter from the piping manufacturer summarizing their observations. At a minimum, the letter shall:

a) Indicate the date the initial section of pipe was installed; and

b) Verify that the installation occurred in accordance with manufacturer's recommended procedures.

e. Trench width shall be in accordance with manufacturer's installation recommendations. District standard payline widths based on the nominal inside pipe diameter shall apply.



DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 1 OF 16

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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SCALE
0 20 40 60

PENNSYLVANIA AVENUE

MATCHLINE STA. 281+25

MATCHLINE STA. 102+00

℄ RTE D
(PAGE AVE)

EX. R/W

EX. FH & WV (UIP)

EX. GV (ATGBO)

EX. GV (UIP)

MSD#16J3-039D (UIP)

MSD#16J3-050S (UIP)

MSD#16J3-0027C (UIP)

EX. PP (UIP)

MSD#16J3-042D (R)

EX. PP (UIP)

1-4A_0

12" PIPE

21" PIPE

1-4A_2

1-4A_3

12"W (TBABO)

1-4B_1

AT&T MH (UIP)

1-4A_1

EX. WV (TBABO)

282+00

283+00

100+00

101+00

EX. BRIDGE B0388 (UIP)

MSD#16J3-158S (ATG)

1-2A_1
MSD#UNKNOWN
(UIP)

1-2B_1

1-2A_2
MSD#UNKNOWN
(ATG)

(UIP)

12" PIPE

1-2B_2

EX. PP (UIP)

MCI HH (ATG BO)

MSD#16J3-041D (UIP)

EX. PP (UIP)

MSD#16J3-155S (UIP)

MSD#16J3-040D (UIP)

EX. GV (UIP)

AT&T MH (ATG BO)

1-5H_2

12" SLOTTED DRAIN

MSD#16J3-037D (UIP)

MSD#16J3-041S (ATG)

MSD#16J3-002C
(CONVERT TO MH)

EX. PP (UIP)

(UIP)

ABANDONED PIPE

EX. PP (UIP)

EX. WV (UIP)

EX. GV
(ATGBO)

EX. PP (UIP)

ABANDONED INLET

36"
PIPE

(ATG)

EX. WM (TBABO)

12" PIPE

MSD#16J3-034D
(R)

1-5H_3

12"
PIPE

1-5H_1

1-5I_1

1-5J_1

MSD#16J3-001C
(ATG)

1-5A_1
MSD#UNKNOWN
(R&R)

(MODOT FO)

MSD#16J3-035D (UIP)

(MCI)

(LUMEN)

EX. LIGHT (UIP)

EX. PP (UIP)

MSD#UNKNOWN
(UIP)

PENNSYLVANIA AVENUE

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 2 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

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SCALE
0 20 40 60

MILFORD AVENUE
COLBY AVENUE
GRIEFIELD PLACE
EX. R/W

MATCHLINE STA. 102+00
MATCHLINE STA. 107+25

1-5K 1
EX. PP (UIP)
24" PIPE
(UIP)
MSD#16J3-034S (ATG)
PR. FH (BO)
EX. FH (RBO)
EXIST. WV (R)
T.C.E.
AT&T MH (ATG BO)
MSD#17J2-052S (ATG)
1-5L 1
EX. FH & WV (UIP)
24" PIPE
MSD#UNKNOWN (R. EXIST INLET)
EX. PP (UIP)
1-5J_7
36" PIPE
EX. GV (ATGBO)
EX. PP (UIP)
1-5J 2
EX. WV (R)
36" PIPE
(R. EXIST PIPE)
1-5J 3
36" PIPE
EX. PP (UIP)
1-5J 4
36" PIPE
1-5J 5
36" PIPE
℄ RTE D (PAGE AVE)
1-5J 6
36" PIPE
EX. WV (R)
24" PIPE
1-5C 1
12" PIPE
1-5A 2
MSD#16J3-042S (ATG)
1-5A_3
MSD#UNKNOWN
(ATG)
MSD#16J3-035S (UIP)
1-5A_4
MSD#UNKNOWN
(ATG)
1-5A 5
12" PIPE
1-5E 1
S62°14'41"E
EX. PP (UIP)
(MCI)
(LUMEN)
1-5D_1
MSD#UNKNOWN
(UIP)
EX. PP (UIP)
12"W
8"W
103+00
104+00
105+00
106+00
107+00

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 3 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

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

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SCALE
0 20 40 60

MATCHLINE STA. 107+25

MATCHLINE STA. 112+65

LEROY AVENUE

PURCELL AVENUE

BUCKNER AVENUE

EX. R/W

T.C.E.

EX. WV (UIP)
EX. FH (UIP)
EX. RISERS (UIP)
15" PIPE
1 5J 10
1 5J 11
1 5M 1
EX. PP (UIP)
MSD#17J2-051S (ATG)
EX. PP (UIP)
EX. WV (R)
(UIP)
1 5J 12
24" PIPE
1-5J 8
24" PIPE
1-5J 9
24" PIPE
EX. PP (UIP)
EX. WV (R)
EX. WM (UIP)
℄ RTE D (PAGE AVE)
EX. AT&T MH (ATG BO)
EX. WV (R)
1-5A_8
MSD#UNKNOWN
(ATG)
1-5A_9
MSD#UNKNOWN
(ATG)
1-5A_6
MSD#UNKNOWN
(ATG)
12" PIPE
1-5A 7
1-5F_1
MSD#UNKNOWN (UIP)
MSD#17J2-053S (UIP)
1-5G 1
ZAYO MH (UIP)
LUMEN MH (UIP)
EX. PP (UIP)
MSD#17J2-056S (UIP)
EX. LIGHT (UIP)
EX. PP (UIP)

108+00 109+00 110+00 111+00 112+00

12"W

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 4 OF 16

25MSD-00107 ; BASEMAPS 16J, 17J, 17H

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

MSD#17J2-0131 (DND)
FERGUSON AVENUE
EX. R/W
EX. MH (UIP)
EX. PP (UIP)
EX. WM (UIP)
EX. WV (R)
EX. GV (ATGBO)
EX. LIGHT (UIP)
EXIST. LIGHTING & IRRIGATION CONTROLLER "C" (UIP)
MSD#17J2-0132C (ATG)
MSD#17J2-062S (ATG)
MATCHLINE STA. 112+65
113+00
114+00
115+00
116+00
117+00
℄ RTE D (PAGE AVE)
MSD#17J2-063S (ATG)
EX. WV (TBABO)
EX. LIGHT (UIP)
MSD# 17J2-0221D (UIP)
EX. FH (RBO)
PR. FH (BO)
AT&T MH (UIP)
WV & WM (UIP)
(TBABO)
MSD#17J2-077S (ATG)
EX. ICV (ATG)
T.C.E.
EX. LIGHTING PB (ATG)
WV (ATG)
MATCHLINE STA. 118+00
(MODOT)
(MCI)
(LUMEN)
EX. MODOT PB (UIP)
EX. MCI HH (UIP)
MSD#17J2-0133C (ATG)
NOTE: ALL LAWN WITHIN ROW FROM STA. 116+45 RT TO STA. 126+60 RT TO RECEIVE 100% IRRIGATION COVERAGE. SEE JSP FOR DETAILS.

DU SHEET LEGEND
- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 5 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED	7/3/2025
ROUTE	D
STATE	MO
DISTRICT	SL
SHEET NO.	24
COUNTY	ST. LOUIS
JOB NO.	J6S3215B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

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SCALE
0 20 40 60

MATCHLINE STA. 118+00

MATCHLINE STA. 123+25

BELRUE AVENUE

EX. R/W

MSD#17J2-070C (DND)

MSD#17J2-067C (DND)

MSD#17J2-0206D (DND)

EX. PP (UIP)

EX. FH (UIP)

MSD#17J2-076S (UIP)

MSD#17J2-0208D (UIP)

MSD#17J2-064C (R&R)

MSD#17J2-0207D (UIP)

MSD#17J2-065C (ATG)

MSD#17J2-075S (ATG)

EX. WV (UIP)

24" PIPE

EXIST PIPE (R)

2-5B 1

18" PIPE

MSD#17J2-063C (R)

2-5C 1 (UIP)

12" PIPE

24" PIPE

2-5A 2

EX. GV (ATGBO)

EX. PP (UIP)

EX. WV (R)

EX. WV (TBABO)

EX. GV (UIP)

EX. PP (UIP)

2-5A 1

*SEE DETAIL 1

EXIST INLET (R)

2-5J 1

EXIST PIPE (R)

12" PIPE

℄ RTE D (PAGE AVE)

EX. WM (TBABO)

119+00

120+00

121+00

122+00

123+00

12" PIPE

2-1A 1 (ATG)

MSD#17J2-066C (ATG)

2-3A 2

12" PIPE

2-3A 3

EX. PP (UIP)

(MODOT)

EX. PP (RELOC. BO)

EX. PP (RELOC. BO)

(ATGBO)

(LUMEN)

(MCI)

T.C.E.

2-3A 1

EX. PP (UIP)

EX. ANCHOR POLE (RBO)

LUMEN MH (ATG)

ZAYO MH (ATG)

MSD#17H1-006S(ATG)

MSD#17J2-100C (DND)

NOTE: ALL LAWN WITHIN ROW FROM STA. 116+45 RT TO STA. 126+60 RT TO RECEIVE 100% IRRIGATION COVERAGE. SEE JSP FOR DETAILS.

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 6 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	25

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

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SCALE
0 20 40 60

WOODRUFF AVENUE
EX. R/W
MATCHLINE STA. 123+25
MATCHLINE STA. 128+50
MSD#17H1-003D (DND)
EX. WV (UIP)
2-5E 1
2-5A 4
MSD#17H1-055C (R&R)
18" PIPE
EX. PP (UIP)
MSD#17H1-054C (R)
18" PIPE
MSD#17H1-052C (R&R)
EX. PP (UIP)
18" PIPE (R. EXIST PIPE)
MSD#17H1-001D (R&R)
EX. GUY (UIP)
EX. PP (UIP)
PR. FH (BO)
EX. FH (RBO)
EX. PP (UIP)
MSD#17H1-0229S (UIP)
2-5A 8
2-5A_3
2-5K 1
12" PIPE
EX. WM (R)
2-5H 1
EX. WM (TBABO)
WV (UIP)
EX. WV (TBABO)
18" PIPE
2-5A 9
12" PIPE
124+00
125+00
126+00
127+00
128+00
S79°47'01"E
℄ RTE D (PAGE AVE)
EX. PP (UIP)
12" PIPE
2-3A 5
EX. GV (ATGBO)
EX. WV (R)
12" PIPE
MSD#17H1-007S (ATG)
2-3A 6
2-3B_1
12" PIPE
2-3A 7
EX. PP (UIP)
EX. PP (UIP)
12" PIPE
EX. LUMEN MH (ATGBO)
EX. ZAYO MH (UIP)
EX. MCI HH (ATGBO)
EX. PP (UIP)
(MODOT)
(MCI)
(LUMEN)
(UIP)
KINGSLAND AVENUE
EX. R/W

NOTE: ALL LAWN WITHIN ROW FROM STA. 116+45 RT TO STA. 126+60 RT TO RECEIVE 100% IRRIGATION COVERAGE. SEE JSP FOR DETAILS.

ROUTE D
DRAINAGE AND UTILITY
SHEET 7 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	26

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

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SCALE
0 20 40 60

KINGSLAND AVENUE
GREGAN PLACE
GRUNER PLACE

EX. PP (UIP)
EX. GUY WIRE (RELOC. BO)
EX. R/W
2-5I 1
12" PIPE
MSD#17H1-0228S (ATG)
MSD#17H1-0223S (UIP)
EX. WV (R)
EX. GUY WIRES (UIP)
2-5A 11
MSD#17H1-0226S (ATG)
MSD#17H1-0227S (ATG)
EX. GV (ATGBO)
EX. WM (TBABO)
2-5A 10
WV (UIP)
WV (ATG)
℄ RTE D (PAGE AVE)
(LUMEN)
(MCI)
(MODOT)
(ATG)
(UIP)
EX. FH & WV (UIP)
MATCHLINE STA. 128+50
MATCHLINE STA. 133+75

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	27

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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ROUTE D
DRAINAGE AND UTILITY
SHEET 8 OF 16

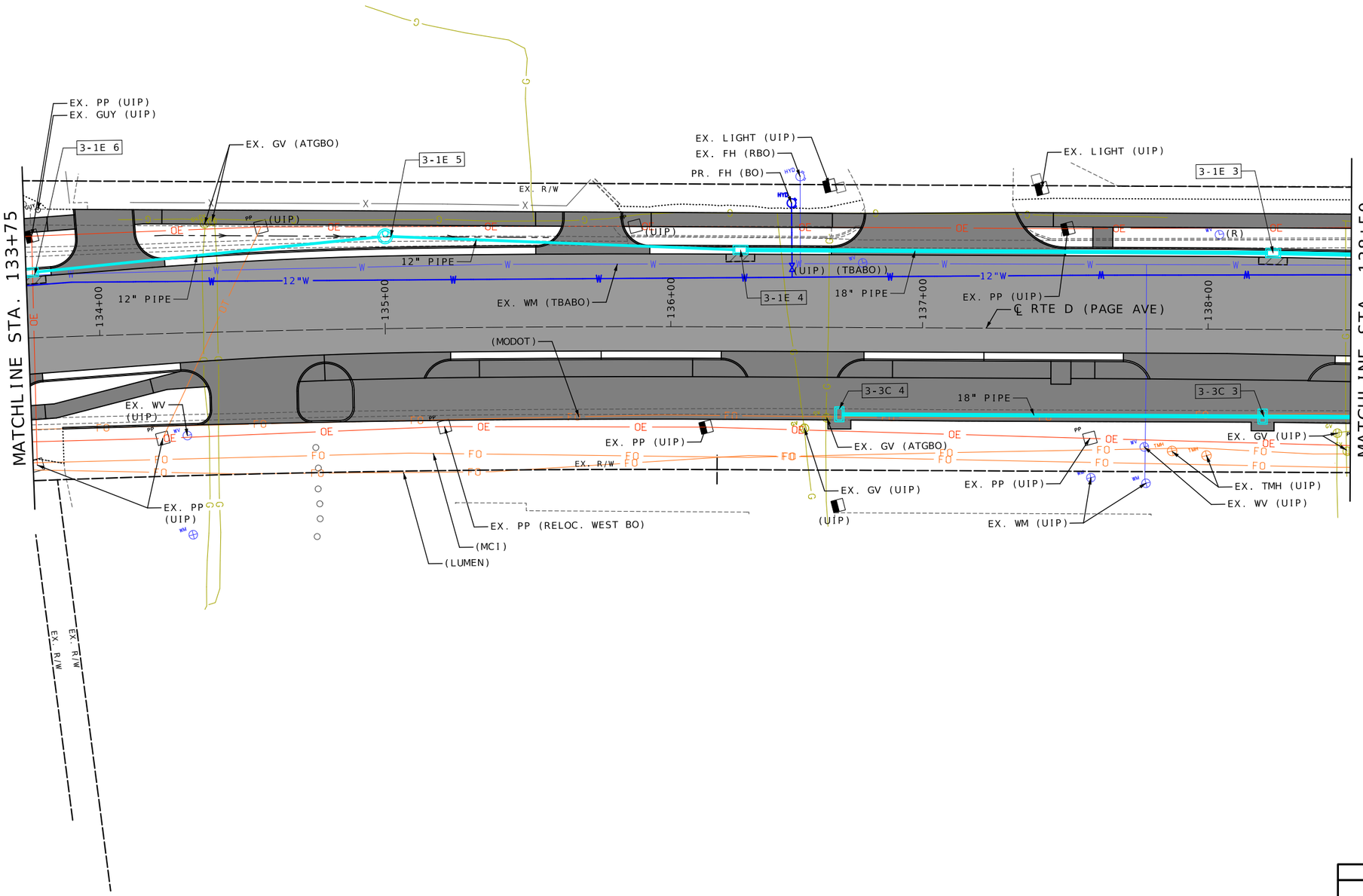
SCALE

0 20 40 60

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

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ROUTE D
DRAINAGE AND UTILITY
SHEET 9 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

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SCALE
0 20 40 60

MATCHLINE STA. 138+50

EX. PP (UIP)
EX. GUY (UIP)
EX. PP (UIP)
EX. PP (UIP)
EX. GV (ATGBO)
PR. FH (BO)
WV (ATG)
EX. WV (R)
EX. TMH (ATG BO)
EX. GV (ATGBO)
MSD#17H1-072D (R)
EX. WV (R)
EX. MCI HH (UIP)
MSD#17H1-074D (R. EX. INLET)
MSD#17H1-075D (UIP)
MSD#17H1-077D (UIP)
PR. FH (BO)
EX. FH (RBO)
(MCI)
WV (UIP)
12"W
18" PIPE
18" PIPE
3-1E 1
3-1E 2
18" PIPE (MCI)
EX. WM (TBABO)
℄ RTE D (PAGE AVE)
MSD#17H1-066D (R)
3-3C 2
24" PIPE
3-3C 1
24" PIPE
EX. EMH (UIP)
3-2C 1
12" PIPE
MSD#17H1-071D (UIP)
MSD#17H1-068D (R EX. INLET)
MSD#17H1-076D (UIP)
18" PIPE
(UIP)
EX. GV (UIP)
EX. R/W
EX. UTILITY ESM'T.
MSD#17H1-203S (UIP)
MSD#17H1-027D (R)
EXIST PP (UIP)
EX. POLE (UIP)
MSD#17H1-067D (R&R)
EX. SLOTTED DRAIN (UIP)
TCE
MSD#17H1-086S (UIP)
PTSE
EX. MODOT ITS PB (ATG)
3-1C 1
EX. MCI HH (UIP)
MSD#17H1-085S (ATG)
MSD#17H1-078D (UIP)
MSD#17H1-079D (UIP)
SUTTER AVENUE
EX. R/W
EX. R/W

MATCHLINE STA. 143+75

138+00 139+00 140+00 141+00 142+00 143+00

ROUTE D
DRAINAGE AND UTILITY
SHEET 10 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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SCALE
0 20 40 60

RAILROAD RIGHT-OF-WAY

MATCHLINE STA. 143+75

MATCHLINE STA. 149+00

144+00 145+00 146+00 147+00 148+00

C RTE D (PAGE AVE)

EX. R/W

EX. FH (RBO)

(MCI)

EX. FH (RBO)

12"W

MSD#17H1-080D (UIP)

RAILROAD RIGHT-OF-WAY

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\020-035_DU Sheets_J6S3215B.dgn 7/3/2025

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ROUTE D
DRAINAGE AND UTILITY
SHEET 11 OF 16

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SCALE
0 20 40 60

MATCHLINE STA. 149+00

MATCHLINE STA. 154+25

MSD#17H1-146S (UIP)
(MCI)
MSD#17H1-200S (UIP)
EX. FH (UIP)
MSD#17H1-147S (UIP)
30" PIPE
EX. WV (ATG)
EX. R/W
MSD#17H1-083D (UIP)
℄ RTE D (PAGE AVE)
MSD#17H1-084D (UIP)
S75°08'22"E
MSD#17H1-089D (CONVERT TO MH)
MSD#17H1-091D (R. EXIST INLET
4-2C 2
4-2C 1
MSD#17H1-085D (UIP)
(MODOT)
EX. R/W
MSD#17H1-086D (UIP)
(UIP)
MSD#17H1-087D (UIP)
MSD#17H1-028C (UIP)
EX. PP (UIP)
MSD#17H1-094S (UIP)
(LUMEN)
EX. GUY (UIP)
MSD#17H1-093S (UIP)
MSD#17H1-197S (UIP)
MSD#17H1-145S (UIP)

150+00 151+00 152+00 153+00 154+00

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 12 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	31

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

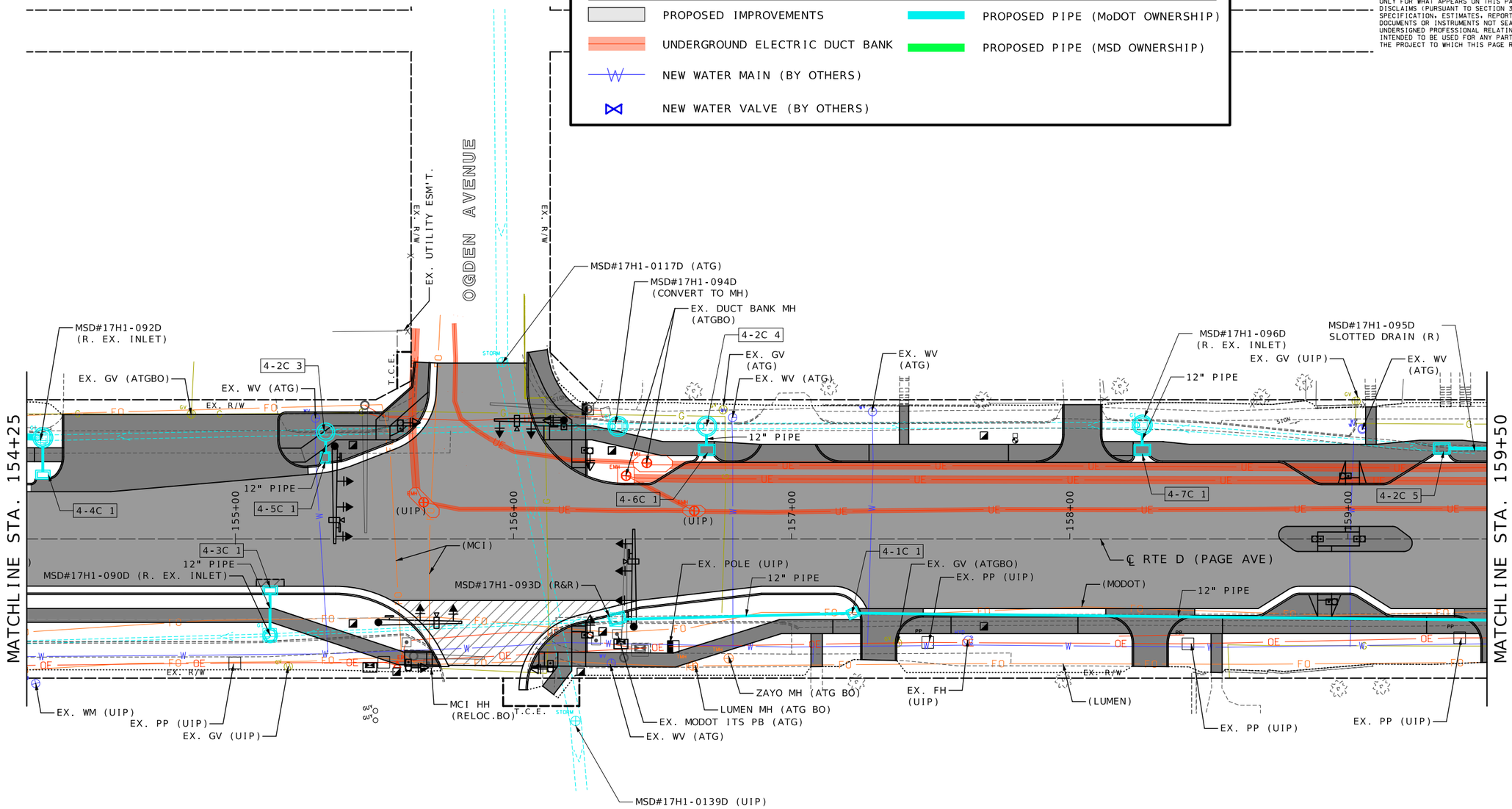
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DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
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- PROPOSED PIPE (MoDOT OWNERSHIP)
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SCALE
0 20 40 60

ROUTE D
DRAINAGE AND UTILITY
SHEET 13 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
.	.

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STEPHEN JONES AVENUE

EX. R/W

AT&T HH (UIP)
EX. PP (UIP)
EX. GV (ATGBO)
PR. FH (BO)
EX. FH (RBO)
EX. AMEREN LIGHT (UIP)
MSD#17H2-030D (R)
EX. WV (UIP)
4-2C 7
15" PIPE
12" PIPE
EX. AMEREN DUCT BANK (ABANDONED)
EX. WV (R)
EX. AMEREN LIGHT (UIP)
(ATGBO)
(UIP)
(R)
4-2C 6
4-2C 8
WV (UIP)
EX. WV (TBABO)
EX. DUCT BANK MH (ATGBO)
4-1C 2
EX. WV (ATG)
EX. WV (R)
(MODOT)
EX. AMEREN LIGHT (UIP)
EX. WV (ATG)
EX. PP (UIP)
EX. WM (UIP)
EX. PP (UIP)
EX. PP (UIP)
AT&T HH (UIP)
T.C.E.
SIDEWALK TRENCH DRAIN
(LUMEN)
ZAYO MH (UIP)
LUMEN MH (UIP)

MATCHLINE STA. 159+50
MATCHLINE STA. 164+75

160+00 161+00 162+00 163+00 164+00

C RTE D (PAGE AVE)

STEPHEN JONES AVENUE

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

STATE OF MISSOURI
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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	33

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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ROUTE D
DRAINAGE AND UTILITY
SHEET 14 OF 16

SCALE
0 20 40 60

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MATCHLINE STA. 164+75

MATCHLINE STA. 170+00

MORTON AVENUE

℄ RTE D (PAGE AVE)

MSD#17H2-056S (ATG)
EX. AMEREN LIGHT (RBO)
EX. AMEREN DUCT BANK (ABANDONED)
EX. R/W
(R.)
MSD#17H2 026D (UIP)
MSD#17H2 0071S (UIP)
EX. WV (TBABO)
MSD#17H2-028D (ATG)
EX. FH (UIP)
EX. PP (UIP)
MSD#17H2-038S (ATG)
MSD#17H2-058S (ATG)
24" PIPE
EX. PP (UIP)
5-3A 2
EX. 15" VCP, 3 FT (R)
EX. WV (R)
5-3A 4
5-3A 5
5-3A 3
5-3A 1
12" PIPE
8"W
EX. WV (TBABO)
24" PIPE (R. EX. PIPE)
MSD#17H2-041S (ATG)
EX. WV (ATG)
5-2B 4
5-2B 5
5-2B 6
(MODOT)
EX. WM (ATG)
EX. GV (ATGBO)
EX. PP (UIP)
5-2C 1
EX. WM (UIP)
EX. MODOT PB (ATG)
(LUMEN)
5-2B 3
5-2B 2
EX. AMEREN LIGHT (UIP)
165+00
166+00
168+00
169+00

DU SHEET LEGEND

- PROPOSED IMPROVEMENTS
- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

ROUTE D
DRAINAGE AND UTILITY
SHEET 15 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	34

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

DU SHEET LEGEND

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- UNDERGROUND ELECTRIC DUCT BANK
- NEW WATER MAIN (BY OTHERS)
- NEW WATER VALVE (BY OTHERS)
- PROPOSED PIPE (MoDOT OWNERSHIP)
- PROPOSED PIPE (MSD OWNERSHIP)

MATCHLINE STA. 170+00

EX. PP (UIP)
MSD#17H2-029D (R&R)
MSD#17H2-361C (UIP)
EX. R/W
24" PIPE (R. EX. PIPE)
℄ RTE D (PAGE AVE) (ATG)
MSD#17H2-0461C (ATG)
171+00
172+00
S55°07'05"E
MSD#17H2-0462C (ATG)
18" PIPE
(MODOT)
5-2B 1
EX. GV (ATGBO)
18" PIPE
EX. WV (ATG)
(ATG)
EX. R/W
EX. LUMEN PB (ATG BO)
(MODOT)
(LUMEN)
EX. WV (ATG)
EX. WM (ATG)
EX. WV (ATG)
(UIP)
MSD#17H2-463C (R&R)
END PROJECT STA. 172+90
5-2A 1
MSD#17H2-263C (UIP)
MSD#17H2-265C (UIP)
MSD#17H2-243C (UIP)
MSD#17H2-362C (UIP)
EX. R/W
SKINKER AVENUE

ROUTE D
DRAINAGE AND UTILITY
SHEET 16 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	35

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

"GRAEF SUBDIVISION"
PLAT BOOK 15 PAGE 85

7207 PAGE AVE
7171 PAGE AVE
N/F
TAYLOR, JOHN
BK 21666 PG 159
BK 07803 PG 0819
PARCEL ID# 16J311360
PARCEL ID# 16J311371
NO ACQUISITION

7227 PAGE AVE
N/F
AMERICAN STERILIZER COMPANY
BK 13201 PG 2447
PARCEL ID# 16J221269
NO ACQUISITION

DRWY
280+02.86 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +1.45% AT CL

EXIST. R/W

277+00
278+00
279+00
280+00
281+00

℄ RTE D (PAGE AVE)
BEGIN PROJECT
STA 278+90.00

PC STA 280+18.68 R2
EQUATION:
STA 280+16.54 BK =
STA 280+18.68

MATCHLINE STA. 281+25

VERL PLACE

7216 PAGE AVE
N/F
WHITE CURTIS
BK 15909 PG 3146
PARCEL ID# 16J220602
NO ACQUISITION

7214 PAGE AVE
N/F
PAGEDALE CITY OF
BK 20061 PG 1355
PARCEL ID# 16J220576
NO ACQUISITION

7212 PAGE AVE
N/F
ST LOUIS COUNTY TRUSTEE
BK 18877 PG 1907
PARCEL ID# 16J310457
NO ACQUISITION

7210 PAGE AVE
N/F
CRAWLEY LOU ETAL
BK 14136 PG 2519
PARCEL ID# 16J310446
NO ACQUISITION

7208 PAGE AVE
N/F
ZUNIGA AMULFO ESPINO
BK 20740 PG 219
PARCEL ID# 16J310413
NO ACQUISITION

7206 PAGE AVE
N/F
CRAWLEY LOU E & DARLINE H/W
BK 21639 PG 677
PARCEL ID# 16J310479
NO ACQUISITION

7204 PAGE AVE
N/F
PAGEDALE, CITY OF
BK 20061 PG 1349
PARCEL ID# 16J310381
NO ACQUISITION

7200 PAGE AVE
N/F
DICKERSON, DERRICK
DOC 202208310026
PARCEL ID# 16J310370
NO ACQUISITION

IONA AVENUE

IONA AVE
280+59.79 RT
26' WIDE
8" PCC
GRADE = +3.0%/
+1.5%/+7.41%
AT CL

SEE NEXT SHEET FOR PROPERTY INFORMATION

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

STATE OF MISSOURI
CASSANDRA MCKEE LEE
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PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	36

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ROUTE D
ROW SHEET
1 OF 17

25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\036-051_ROW Sheets_J6S3215B.dgn 7/3/2025

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SCALE
0 20 40 60

1311 PENNSYLVANIA AVE
N/F
METRO ST. LOUIS
SEWER DIST
BK 23718 PG 2071
PARCEL ID# 16J310545
NO ACQUISITION

SEE PREVIOUS SHEET
FOR PROPERTY INFO

DRWY
281+71.86 LT.
30' WIDE PAVED APPROACH (8")
GRADE = -1.5%/-7.43% AT CL

7201 PAGE AVE
N/F
AHMADI, BASHER
DOC.2022122900477
PARCEL ID# 16J310479
NO ACQUISITION

EXIST. R/W

PENNSYLVANIA AVENUE

"SCANLON'S EXTENSION OF HAZEL HILL" PLAT BOOK 4 PAGE 53 BLOCK 6

7201 PAGE AVE
N/F
HZ PROPS RE LTD
BK 24636 PG 2013
PARCEL ID# 16J310435
NO ACQUISITION

LOT 4
LOT 3
LOT 2
LOT 1

DRWY
100+66.25 LT.
30' WIDE PAVED
APPROACH (8")
GRADE = -3.0%/-1.0%
/+1.0% AT CL

7107 PAGE AVE
N/F
AFANEH GASSAN
BK 22748 PG 1882
PARCEL ID# 16J310358
NO ACQUISITION

7105 PAGE AVE
N/F
TILLMAN LARRY ETAL J/T
BK 24261 PG 349
PARCEL ID# 16J310347
NO ACQUISITION

DRWY
101+28.25 LT.
10' WIDE PAVED
APPROACH (8")
GRADE = -3.5%/
+1.5%/+2.56% AT CL

DRWY
101+63.91 LT.
11' WIDE PAVED
APPROACH (8")
GRADE = +0.39%
AT CL

1
VOID
7101 PAGE AVE
7103 PAGE AVE
N/F
AFANEH THAIR
BK 20453 PG 1406
PARCEL ID# 16J310325
PARCEL ID# 16J311393
NO ACQUISITION

+81.09
+29.38

EQUATION:
STA 283+86.55 BK =
STA 99+41.60

MATCHLINE STA. 281+25

MATCHLINE STA. 102+00

282+00
283+00
100+00
101+00

PT STA 282+62.01 R2

℄ RTE D
(PAGE AVE)

EXIST. R/W

EXIST.
DRWY
(UIP)

DRWY
281+97.81 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = +4.0%
/+1.5% AT CL

PI	281+40.42
PC	280+18.68
PT	282+62.01
Δ	4°51'58.8" (RT)
D	1°59'59.6"
L	243.33' (ARC)
T	121.74'
R	2,864.95'

7194 PAGE AVE UNIT A
N/F
BOMATIC EXPRESS LLC
BK 22841 PG 243
PARCEL ID# 16J310282
NO ACQUISITION

7196 PAGE AVE
N/F
HIMA, NIDAL & DINA
BK 25136 PG 1172
PARCEL ID# 16J310314
NO ACQUISITION

7194 PAGE AVE
N/F
FENG, LI ZHI
BK 18620 PG 2048
PARCEL ID# 16J310215
NO ACQUISITION

7116 PAGE AVE
N/F
GOLD MANAGEMENT INC
BK 22540 PG 79
PARCEL ID# 16J311304
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
2 OF 17

STATE OF MISSOURI
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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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ENGINEERING CORPORATION - 000631

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SCALE
0 20 40 60

DRWY
102+14.45 LT.
60' WIDE PAVED
APPROACH (8")
GRADE = +1.2% / 1.5% /
1.23% AT CL

(1)
SEE PREVIOUS SHEET
FOR PROPERTY INFO

MILFORD AVENUE

MILFORD AVE
103+08.83 LT
23' WIDE
8" PCC
GRADE = +1.50% /
+2.89% AT CL

(2)
7017 PAGE AVE
N/F
HIMA, NIDAL & DINA
H/W ETAL
BK 16828 PG 2434
PARCEL ID# 16K630084
323 SF TCE
12100 SF ORIGINAL
12100 SF REMAINING

DRWY
103+79.31 LT.
33' WIDE PAVED
APPROACH (8")
GRADE = +3.0%
/+1.5%
/+3.47% AT CL

LOT 4 LOT 3 LOT 2 LOT 1
"SCANLON'S EXTENSION OF HAZEL HILL"
PLAT BOOK 4 PAGE 53
BLOCK 5

DRWY
104+44.28 LT.
24' WIDE PAVED
APPROACH (8")
GRADE = +4.0%
/+1.0% AT CL

(3)
7013 PAGE AVE
7001 PAGE AVE
N/F
WEST PORT STL INC
BK 23913 PG 0134
BK 23945 PG 0474
PARCEL ID# 16J310172
PARCEL ID# 16J311294
746 SF TCE
24081 SF ORIGINAL
24081 SF REMAINING

DRWY
105+55.50 LT.
110' WIDE PAVED
APPROACH (8")
GRADE = +4.0%/+1.5%
/+2.99% AT CL

DRWY
106+48.34 LT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5% AT CL

COLBY AVENUE

COLBY AVE
107+06.25 LT
22' WIDE
8" PCC
GRADE = +3.0%/
+1.5%/+7.48%
AT CL

(4)
6917 PAGE AVE
N/F
FIELDS, HOWARD E
CHRISTINE E H/W
BK 10541 PG 0765
PARCEL ID# 16J320050
272 SF TCE
13983 SF ORIGINAL
13983 SF REMAINING

EXIST. R/W

+11.31 50.00'
+10.18 53.00'
N07°02'49"E 3.21'
S62°14'41"E 107.70'
+17.88 53.00'
+19.01 50.00'
S62°14'41"E 248.82'
N62°14'41"W 248.82'
S07°02'49"W 3.21'
N62°14'41"W 107.70'
+64.83 53.00'
+65.96 50.00'
S07°02'49"W 3.21'
N07°02'49"E 3.21'
+07.59 53.00'
+18.72 50.00'
T.C.E.

MATCHLINE STA. 102+00
MATCHLINE STA. 107+25
103+00 104+00 105+00 106+00 107+00

℄ RTE D (PAGE AVE)

EQUATION:
STA 105+16.10 BK =
STA 105+14.23

S62°14'41"E

+83.92
+90.92
+70.56
+75.56

EXIST. DRWY (UIP)

SEE PREVIOUS SHEET
FOR PROPERTY INFO

7104 PAGE AVE
N/F
NATIONAL CAPITAL CORP
BK 07380 PG 2022
PARCEL ID# 17J631791
NO ACQUISITION

FIELDS, HOWARD E CHRISTINE E H/W
7100 PAGE AVE
N/F
BK 21639 PG 677
PARCEL ID# 17J631479
NO ACQUISITION

GRIEFIELD PLACE

HANCE, MICHAEL R
7018 PAGE AVE
N/F
BK 07811 PG 2338
BK 08074 PG 1007
PARCEL ID# 17J631670
PARCEL ID# 17J631658
NO ACQUISITION

7020 PAGE AVE
N/F

7016 PAGE AVE
N/F
ROBERTS, RONALD L SR
BK 23039 PG 204
PARCEL ID# 17J631593
NO ACQUISITION

SEE NEXT
SHEET FOR
PROPERTY
INFORMATION

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
3 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	38

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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SCALE
0 20 40 60

4
SEE PREVIOUS SHEET FOR PROPERTY INFO

5
6915 PAGE AVE
6913 PAGE AVE
N/F
NATOSHA SNOWDEN
DOC 202409180056
PARCEL ID# 16J320038
PARCEL ID# 16J320016
260 SF TCE
15614 SF ORIGINAL
15614 SF REMAINING

6911 PAGE AVE
N/F
FULTON, WILLARD
& ROSALYN H/W
BK 16429 PG 1049
PARCEL ID# 17J641592
NO ACQUISITION

6
6907 PAGE AVE
N/F
CROSS JANITORIAL SERVICES INC
BK 16498 PG 2322
PARCEL ID# 17J641844
482 SF TCE
21920 SF ORIGINAL
21920 SF REMAINING

LEROY AVE
111+46.05 LT
25' WIDE
8" PCC
GRADE = +2.15%/
+1.5% AT CL

6815 PAGE AVE
N/F
FIRST BAPTIST CHURCH
OF MAPLEWOOD INC
DOC 2004021201266
PARCEL ID# 17J641790
NO ACQUISITION

DRWY
107+80.50 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +2.0%/+1.5%
/+3.37% AT CL

DRWY
108+42.65 LT
30' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+3.81% AT CL

DRWY
108+71.01 LT.
26.75' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+3.92% AT CL

DRWY
109+01.45 LT.
12' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+2.53% AT CL

DRWY
109+87.12 LT.
72.5' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+3.98% AT CL

DRWY
112+44.50 LT.
21.5' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+4.75% AT CL

S62°14'41"E 90.82'
+98.41 53.00'
T.C.E.
S07°49'16"W 3.19'
+99.50 50.00'
+85.08 53.00'
S07°46'05"W 3.19'
+44.42 53.00'
S07°49'15"W 3.19'
T.C.E.
S62°14'41"E 160.71'
S07°27'37"W 3.20'
+05.13 53.00'
+96.94
+86.17 50.00'
+45.51 50.00'
06.24 50.00'
+74.94
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W

N62°14'41"W 90.77'
S62°14'41"E 86.67'
N62°14'41"W 86.67'
N62°14'41"W 160.73'
108+00
109+00
110+00
111+00
112+00
℄ RTE D (PAGE AVE)

MATCHLINE STA. 107+25
MATCHLINE STA. 112+65

EXIST. R/W
EXIST. DRWY (UIP)
EXIST. DRWY (UIP)
EXIST. DRWY (UIP)
EXIST. R/W
EXIST. R/W
EXIST. R/W

PURCELL AVENUE
BUCKNER AVENUE

7004 PAGE AVE
7000 PAGE AVE
N/F
FIELDS, HOWARD
BK 12955 PG 190
BK 06878 PG 1894
PARCEL ID# 17J631582
PARCEL ID# 17J631560
NO ACQUISITION

6918 PAGE AVE
N/F
RHYMES, GETER
& GLENDA T/E
BK 23453 PG 228
PARCEL ID# 17J642009
NO ACQUISITION

6900 PAGE AVE
N/F
RHYMES, FREDERICK R
BK 23285 PG 200
PARCEL ID# 17J641954
NO ACQUISITION

6840 PAGE AVE
N/F
PAGEDALE GROCERY DEVELOPMENT LLC
BK 18475 PG 1452
PARCEL ID# 17J642010
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
4 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	39

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DESCRIPTION
DATE

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

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SCALE
0 20 40 60

SEE PREVIOUS SHEET
FOR PROPERTY INFO

DRWY
112+97.16 LT.
12' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/+4.05% AT CL

DRWY
114+39.26 LT.
9' WIDE PAVED
APPROACH (8")
GRADE = +0.75% AT CL

PI	116+29.48
PC	114+94.14
PT	117+64.11
Δ	17°32'20.05" (LT)
D	6°31'50.0"
L	268.57' (ARC)
T	135.34'
R	877.35'

6763 PAGE AVE
N/F
PAGEDALE TOWN CENTER I LLC
BK 21076 PG 698
PARCEL ID# 17J642032
NO ACQUISITION

FERGUSON AVENUE

EXIST. R/W

MATCHLINE STA. 112+65

MATCHLINE STA. 118+00

113+00 114+00 115+00 116+00 117+00

PC STA 114+94.14 R5

PT STA 117+64.11 R6

℄ RTE D
(PAGE AVE)

EQUATION:
STA 114+94.10 BK =
STA 114+94.14

EQUATION:
STA 117+62.71 BK =
STA 117+64.11

EXIST.
DRWY
(UIP)

L 114.02'
R 927.43'

T.C.E.

+54.85
50.00'

+64.12
50.00'

+56.65
59.84'

N06°11'34"E
10.03'

7
SEE NEXT SHEET
FOR PROPERTY INFO

SEE PREVIOUS SHEET
FOR PROPERTY INFO

6810 PAGE AVE
N/F
24:1 COMMUNITY LAND TRUST
BK 19656 PG 2301
PARCEL ID# 17J642021
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
5 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	40

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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SCALE
0 20 40 60

SEE PREVIOUS SHEET
FOR PROPERTY INFO

EXIST. R/W

BELRUE AVENUE

EXIST. R/W

6731 PAGE AVE
N/F
ROJO REALTY SRVCS LLC
BK 24592 PG 3769
PARCEL ID# 17J641185
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

6727 PAGE AVE
N/F
24:1 COMMUNITY LAND TRUST
BK 21414 PG 482
PARCEL ID# 17H431286
NO ACQUISITION

6719 PAGE AVE
N/F
ST. LOUIS BIBLEWAY
CHURCH INC
BK 07057 PG 1139
PARCEL ID# 17H432089
NO ACQUISITION

DRWY
121+45.91 LT.
30' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+5.91%
AT CL

EXIST. R/W

EXIST. R/W

MATCHLINE STA. 118+00

MATCHLINE STA. 123+25

119+00

120+00

121+00

℄ RTE D (PAGE AVE)

122+00

123+00

+60.50
50.00'

EXIST. R/W

T.C.E.

S79°47'01"E
396.33'

N79°47'01"W
396.38'

S10°12'59"W
3.00'

+60.50
53.00'

DRWY
120+90.00 RT.
22' WIDE PAVED
APPROACH (8")
GRADE = +4.0%/+1.5%
/+5.99% AT CL

DRWY
121+46.00 RT.
16' WIDE PAVED
APPROACH (8")
GRADE = +4.0%/+1.5%
/+6.0% AT CL

7

6746, 6744, 6740, 6734, 6732, 6724, 6720, 6718,
6716, 6714, 6712, 6710, 6708, 6702 PAGE AVE
1285 KINGSLAND AVE
N/F 24:1 COMMUNITY LAND TRUST
BK 23902 PG 2439, PARCEL ID# 17J642043
BK 20944 PG 886, PARCEL ID# 17J641691
BK 20780 PG 1793, PARCEL ID# 17J640920
BK 20780 PG 1818, PARCEL ID# 17J640898
BK 20780 PG 1822, PARCEL ID# 17J640931
BK 20780 PG 1822, PARCEL ID# 17H432078
BK 20780 PG 1785, PARCEL ID# 17H430964
BK 21896 PG 85, PARCEL ID# 17H440383
BK 22262 PG 862, PARCEL ID# 17H430946
BK 21590 PG 757, PARCEL ID# 17H430937
DOC 2023101800015, PARCEL ID# 17H440383
BK 21572 PG 2200, PARCEL ID# 17H430919
BK 21572 PG 2200, PARCEL ID# 17H430900
BK 21572 PG 2200, PARCEL ID# 17H430890
DOC 2023032400500, PARCEL ID# 17H430872
1791 SF TCE
140724 SF ORIGINAL, 140724 SF REMAINING

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
6 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	41

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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ROW SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
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SCALE
0 20 40 60

SEE PREVIOUS SHEET FOR PROPERTY INFO

WOODRUFF AVENUE

EXIST. R/W

SHARE G 3

SHARE C 1

SHARE B

6715 PAGE AVE
6711 PAGE AVE
6709 PAGE AVE
N/F
24:1 COMMUNITY LAND TRUST
BK 21916 PG 370, PARCEL ID# 17H431143
BK 21994 PG 553, PARCEL ID# 17H432056
DOC 2022070700330, PARCEL ID# 17H431154
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

SEE NEXT SHEET FOR PROPERTY INFO

MATCHLINE STA. 123+25

MATCHLINE STA. 128+50

124+00 125+00 126+00 127+00 128+00

S79°47'01"E

℄ RTE D (PAGE AVE)

EXIST. R/W

SEE PREVIOUS SHEET FOR PROPERTY INFO

KINGSLAND AVENUE

DRWY 127+78.66 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = +0.71% AT CL

6698 PAGE AVE
N/F
PAGE REALTY LLC
BK 23254 PG 1661
PARCEL ID# 17H430881
NO ACQUISITION

ALLEY 128+11.33 RT.
11.3' WIDE PAVED
APPROACH (8")
GRADE = +0.7% AT CL

KINGSLAND AVE.
126+55.48 RT.
23.5' WIDE 8"
PCC PAVEMENT
GRADE = -1.0%
+1.4% AT CL

SEE NEXT SHEET FOR PROPERTY INFO

ROUTE D

ROW SHEET
7 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	42

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.
.	.
.	.
.	.
.	.
.	.
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

SHARE A

6707 PAGE AVE
N/F
NILKANTH 1837 LLC
BK 22547 PG 981
PARCEL ID# 17H431154
NO ACQUISITION

KINGSLAND AVENUE

KINGSLAND AVE.
129+53.34 LT.
19' WIDE 8"
PCC PAVEMENT
GRADE = +1.21% AT CL

6617 PAGE AVE
N/F
PAGEDALE, CITY OF
BK 16937 PG 2512
PARCEL ID# 17H432111
NO ACQUISITION

6611 PAGE AVE
N/F
HINTON, CALVIN
BK 21334 PG 1064
PARCEL ID# 17H432122
NO ACQUISITION

6601 PAGE AVE
N/F
BENTON, ANTHONY
BK 12717 PG 1294
PARCEL ID# 17H431033
NO ACQUISITION

GREGAN PLACE

GREGAN PL.
132+33.62 LT.
13' WIDE 8"
PCC PAVEMENT
GRADE = +1.0%
AT CL

6533 PAGE AVE
6531 PAGE AVE
N/F
SNOWDEN, DWAYNE
BK 17925 PG 1095
BK 16275PG 1738
PARCEL ID# 17H431011
PARCEL ID# 17H431022
NO ACQUISITION

SEE NEXT SHEET
FOR PROPERTY INFO

DRWY
128+60.65 LT.
96' WIDE PAVED
APPROACH (8")
GRADE = +3.0%/+1.5%
/9.78% AT CL

DRWY
131+52.63 LT.
36' WIDE PAVED
APPROACH (8")
GRADE = +1.0% AT CL

DRWY
131+76.99 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +1.0%/
+9.34% AT CL

DRWY
132+97.96 LT.
11'WIDE PAVED
APPROACH (8")
GRADE = +5.0%/+1.5%
/+10.5% AT CL

EXIST. R/W

+34.61
+56.61
+73.61
+51.60

MATCHLINE STA. 128+50

MATCHLINE STA. 133+75

129+00
130+00
131+00
132+00

℄ RTE D
(PAGE AVE)

PC STA 131+52.00 R7

EQUATION:
STA 131+59.64 BK =
STA 131+52.00

GRUNER PLACE

6692 PAGE AVE
N/F
PAGEDALE, CITY OF
BK 14927 PG 2841
PARCEL ID# 17H430863
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

GRUNER PL.
129+53.08 RT.
23.5' WIDE 8"
PCC PAVEMENT
GRADE = -5.0%/-1.5% /-6.24% AT CL

1228 GRUNER PL
N/F
NATIONSTAR MORTGAGE LLC
BK 20938 PG 758
PARCEL ID# 17H430854
NO ACQUISITION

ALLEY 131+00.71 RT.
10' WIDE PAVED
APPROACH (8")
GRADE = -3.0%/-1.5%
/-6.11% AT CL

1231 GREGAN PL
N/F
WILDER, STEPHANIE R
DOC 2023040600298
PARCEL ID# 17H440383
NO ACQUISITION

GREGAN PL.
132+34.18 RT.
20' WIDE 8"
PCC PAVEMENT
GRADE = -4.5%/-1.5%
/-5.98% AT CL

1232 GREGAN PL
N/F
TONEY, JEROME C
DOC 2023050800228
PARCEL ID# 17H430818
NO ACQUISITION

DRWY
133+56.90 RT.
20' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+2.1% AT CL

ROW SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
8 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	43

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

SCALE
0 20 40 60

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DRWY
134+04.79 LT.
20' WIDE PAVED
APPROACH (8")
GRADE = +2.05%/+1.5%
AT CL

6525 PAGE AVENUE
N/F
TEND PROPERTIES
BK 14752 PG 1773
PARCEL ID# 17H440361
NO ACQUISITION

DRWY
135+72.76 LT.
20' WIDE PAVED
APPROACH (8")
GRADE = +6.7%/+1.5%
AT CL

SEE NEXT SHEET
FOR PROPERTY INFO

DRWY
137+05.91 LT.
50' WIDE PAVED
APPROACH (8")
GRADE = +3.38%/+1.5%
AT CL

MATCHLINE STA. 133+75

MATCHLINE STA. 138+50

EXIST. R/W

+59.49

+06.92

+66.49

+15.20

134+00

135+00

136+00

PT STA 136+28.26 R8

137+00

℄ RTE D (PAGE AVE)

138+00

EXIST. R/W

+45.04

+52.04

EQUATION:
STA 136+16.43 BK =
STA 136+28.26

DRWY
134+53.56 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-3.37% AT CL

DRWY
135+00.97 RT.
24' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-1.57% AT CL

DRWY
136+65.54 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-3.01% AT CL

DRWY
138+07.43 RT.
54' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-2.77% AT CL

EXIST. R/W

EXIST. R/W

6520 PAGE AVE
N/F
ROJO REALTY
SERVICES LLC
BK 25078 PG 1009
PARCEL ID# 17H440141
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

PI	133+84.34
PC	131+52.00
PT	136+28.26
Δ	4°38'39.4" (RT)
D	1°0'0.0"
L	464.43' (ARC)
T	232.34'
R	5,729.60'

6516 PAGE AVE
6510 PAGE AVE
N/F
JPH REALTY LLC
BK 16784 PG 1969
BK 16784 PG 1969
PARCEL ID# 17H440130
PARCEL ID# 17H440121
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

"WATSON'S FRUIT HILL SUB."
PLAT BOOK 09 PAGE 80
BLOCK 15

ROUTE D
PLAN SHEET
9 OF 17

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	44

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROW SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

SCALE
0 20 40 60

6515 PAGE AVE
6515 PAGE AVE UNIT A
6513 PAGE AVE
N/F
SURMEIER HOLDINGS LLC
DOC 2022030200691, PARCEL ID# 16H120013
DOC 2022030200691, PARCEL ID# 17H440174
DOC 2022030200691, PARCEL ID# 17H440152
NO ACQUISITION

MATCHLINE STA. 138+50

MATCHLINE STA. 143+75

EXIST. R/W

139+00 140+00 141+00 142+00 143+00

℄ RTE D (PAGE AVE)

N56°10'18"E 9.32'
+50.84 50.00'
S75°08'22"E 15.78'
P.T.S.E.
+44.69 57.00'
N56°10'18"E 3.99'
+66.62 50.00'
EXIST. R/W
T.C.E.
EXIST. UTILITY ESM'T.
+40.35 60.00'
+50.84 57.00'
S14°51'38"W 7.00'
S75°08'11"W 30.25'
N75°08'22"W 6.15'
+42.05 60.00'
S75°08'22"E 1.71'
+40.35 65.00'
N14°51'38"E 5.00'

DRWY
139+16.04 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
AT CL

SEE PREVIOUS SHEET FOR PROPERTY INFO

6500 PAGE AVE
N/F
WHITE OAK JJK LLC
BK 22302 PG 2528
PARCEL ID# 17H440112
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

EXIST. R/W

SUTER AVENUE

EXIST. R/W

8
6490 PAGE AVE
6489 PAGE AVE
6482 PAGE AVE
6470 PAGE AVE
N/F
F&R PROPERTIES LLC
BK 17788 PG 2614, PARCEL ID# 17H440383
BK 17788 PG 2614, PARCEL ID# 17H440394
BK 17788 PG 2614, PARCEL ID# 17H440372
BK 17918 PG 3261, PARCEL ID# 17H440305
22 SF PTSE
115 SF TCE
39024 SF ORIGINAL
39024 SF REMAINING

"WATSON'S FRUIT HILL SUB."
PLAT BOOK 09 PAGE 80
BLOCK 14

6454 PAGE AVE
N/F
THROCKMARTIN PROPERTIES LLC
BK 20696 PG 3438
PARCEL ID# 17H420624
NO ACQUISITION

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	45

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROUTE D
ROW SHEET
10 OF 17

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SCALE
0 20 40 60

6473 PAGE AVE
N/F
LAND CLEARANCE REDEV
AUTH OF STL CO
BK 07510 PG 0395
PARCEL ID# 17H440323
NO ACQUISITION

6501 PAGE AVE
N/F
BI-STATE DEVELOPMENT AGENCY
BK 08571 PG 0700
PARCEL ID# 17H440332
NO ACQUISITION

RAILROAD RIGHT-OF-WAY

SEE PREVIOUS SHEET
FOR PROPERTY INFO

SEE NEXT SHEET
FOR PROPERTY INFO

EXIST. R/W

MATCHLINE STA. 143+75

144+00 145+00 146+00 147+00 148+00

℄ RTE D (PAGE AVE)

MATCHLINE STA. 149+00

EXIST. R/W

6423 PLYMOUTH AVE
N/F
BI-STATE DEVELOPMENT AGENCY
BK 08542 PG 0700
PARCEL ID# 17H420671
NO ACQUISITION

RAILROAD RIGHT-OF-WAY

SEE PREVIOUS SHEET
FOR PROPERTY INFO

SEE NEXT SHEET
FOR PROPERTY INFO

ROW SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
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- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
11 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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SCALE
0 20 40 60

6451 PAGE AVE
6421 PAGE AVE
6441 PAGE AVE
N/F
UNION ELECTRIC COMPANY
BK 00318 PG 0391, PARCEL ID# 17H531513
BK 00318 PG 0391, PARCEL ID# 17H531816
BK 00318 PG 0391, PARCEL ID# 17H531504
NO ACQUISITION

6413 PAGE AVE
N/F
HUSTON, ROMON & STEPHANIE H/W
BK 21571 PG 1098
PARCEL ID# 17H530066
NO ACQUISITION

DRWY
153+38.36 LT.
25' WIDE PAVED
APPROACH (8")
GRADE = +1.2%
AT CL

EXIST. R/W

MATCHLINE STA. 149+00

150+00

151+00

℄ RTE D (PAGE AVE)

152+00

153+00

154+00

S75°08'22"E

MATCHLINE STA. 154+25

EXIST. R/W

9
6440 PAGE AVE
N/F
LAND CLEARANCE FOR
REDEVELOPMENT AUTHORITY
BK 24178 PG 1003
PARCEL ID# 17H511092
274 SF TCE
694782 SF ORIGINAL
694782 SF REMAINING

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
12 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROW SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
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MATCHLINE STA. 154+25

MATCHLINE STA. 159+50

OGDEN AVENUE

"PAGE AVENUE HEIGHTS"
PLAT BOOK 03 PAGE 54
BLOCK 3

10

6411 PAGE AVE, 6407 PAGE AVE
6403 PAGE AVE, 6401 PAGE AVE
N/F
S&B CUT RATE ENTERPRISES
BK 21863 PG 635, PARCEL ID# 17H530055
BK 11383 PG 0160, PARCEL ID# 17H530044
BK 11383 PG 0160, PARCEL ID# 17H530033
BK 11383 PG 0154, PARCEL ID# 17H530022
59 SF TCE
18707 SF ORIGINAL
18707 SF REMAINING

DRWY
154+76.76 LT.
80' WIDE PAVED
APPROACH (8")
GRADE = +2.0%/+1.5%
AT CL

EXIST. UTILITY ESM'T.
EXIST. R/W
S75°08'22"E
5.00'
+58.19
67.22'
+63.19
67.22'
N14°51'38"E
13.13'
+58.19
54.09'
T.C.E.
EXIST. R/W
+63.18
56.73'
S14°51'38"W
10.48'
S76°58'50"W
5.65'

6339 PAGE AVE
N/F
S&B CUT RATE ENTERPRISES
BK 11383 PG 0152
PARCEL ID# 17H530011
NO ACQUISITION

6329 PAGE AVE
N/F
WELLSTON, CITY OF
DOC 20221025003O3
PARCEL ID# 17H510871
NO ACQUISITION

DRWY
156+98.83 LT.
20' WIDE
PAVED APPROACH (8")
GRADE = +1.5% AT CL

6325 PAGE AVE
6323 PAGE AVE
N/F
JACKSON, SETERIA
BK 22021 PG 349, PARCEL ID# 17H510893
BK 22021 PG 349, PARCEL ID# 17H510842
NO ACQUISITION

DRWY
158+04.49 LT.
13' WIDE
PAVED APPROACH (8")
GRADE = +1.5%/+2.17%
AT CL

"PAGE AVENUE HEIGHTS"
PLAT BOOK 03 PAGE 54
BLOCK 2

6317 PAGE AVE
N/F
JACKSON, HELEN
BK 07380 PG 0035
PARCEL ID# 17H510833
NO ACQUISITION

6315 PAGE AVE
N/F
OWENS, HARE SHARON D ETAL I/T
BK 19929 PG 2036
PARCEL ID# 17H510824
NO ACQUISITION

6311 PAGE AVE
N/F
HARDIN REALTY LLC
BK 19541 PG 1208
PARCEL ID# 17H510815
NO ACQUISITION

155+00
156+00
157+00
158+00
159+00

℄ RTE D
(PAGE AVE)

S75°08'22"E
27.40'
+96.27
50.00'
EXIST. R/W
EXIST. R/W
T.C.E.
+23.66
50.00'
S14°51'38"W
10.00'

+96.27
60.00'
N14°51'38"E
10.00'
+23.66
60.00'
N75°08'22"W
27.40'

OGDEN AVE.
155+88.19 RT.
27' WIDE 8"
PCC PAVEMENT
GRADE = -3.6%/
+1.5% AT CL

6334 PAGE AVE
6330 PAGE AVE
N/F
TOMPKINS, WILLIE P ETAL
BK 17509 PG 2390, PARCEL ID# 17H510732
BK 17509 PG 2390, PARCEL ID# 17H510723
NO ACQUISITION

DRWY
157+31.29 RT.
12' WIDE PAVED APPROACH (8")
GRADE = +1.5%/+4.39% AT CL

6328 PAGE AVE
N/F
HANCOCK, THOMAS A ANNIE M
BK - PG -
PARCEL ID# 17H510705
NO ACQUISITION

6326 PAGE AVE
N/F LAND CLEARANCE REDEV
AUTH OF STL CO
BK 12316 PG 2386
PARCEL ID# 17H510684
NO ACQUISITION

6324 PAGE AVE
N/F WELLSTON, CITY OF
BK 06848 PG 1613, PARCEL ID# 17H510673
NO ACQUISITION

DRWY
158+28.93 RT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+3.26% AT CL

6322 PAGE AVE
6318 PAGE AVE
6314 PAGE AVE
N/F
JONES, SMITH MICHELLE
BK 17743 PG 1762, PARCEL ID# 17H510662
BK 08920 PG 0410, PARCEL ID# 17H511058
BK 10369 PG 1775, PARCEL ID# 17H510631
NO ACQUISITION

DRWY
159+54.31 RT.
12' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+2.26% AT CL

9
SEE PREVIOUS SHEET
FOR PROPERTY INFO

SCALE
0 20 40 60

ROUTE D
ROW SHEET
13 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	48

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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0 20 40 60

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6309 PAGE AVE
N/F
JOHNSON, ANETRA F
BK 23457 PG 907
PARCEL ID# 17H521684
NO ACQUISITION

6307 PAGE AVE
N/F
SMITH, ELLIS
BK 23763 PG 204
PARCEL ID# 17H521651
NO ACQUISITION

6305 PAGE AVE
N/F ABSOLUTE VISION
PROPERTY & MANAGEMENT LLC
BK 25130 PG 125
PARCEL ID# 17H521622
NO ACQUISITION

6301 PAGE AVE
N/F
STEWART, DAVID
BK 07138 PG 1358
PARCEL ID# 17H521596
NO ACQUISITION

STEPHEN JONES AVENUE

EXIST. R/W

STEPHEN JONES AVE.
161+35.13 LT.
32' WIDE 8"
PCC PAVEMENT
GRADE = +0.88% AT CL

6251 PAGE AVE
N/F
AL PERRY HOUSING
RENTAL LLC
BK 23970 PG 1631
PARCEL ID# 17H521552
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

6429 PAGE AVE
N/F
EIZEMBER GROUP
BK 10910 PG 1317
PARCEL ID# 17H521512
NO ACQUISITION

DRWY
162+36.32 LT.
20' WIDE PAVED
APPROACH (8")
GRADE = +1.5%
/+2.49% AT CL

6243 PAGE AVE
N/F
WELLSTON, CITY OF
BK 23085 PG 912
PARCEL ID# 17H521497
NO ACQUISITION

6429 PAGE AVE
N/F
WELLSTON, CITY OF
DOC. 20221020500307
PARCEL ID# 17H521486
NO ACQUISITION

6239 PAGE AVE
6235 PAGE AVE
N/F
PAGE INN INC
BK 15556 PG 2061, PARCEL ID# 17H521464
BK 12484 PG 0666, PARCEL ID# 17H521442
NO ACQUISITION

6231 PAGE AVE
N/F
WELLSTON, CITY OF
BK 23085 PG 908
PARCEL ID# 16K630084
NO ACQUISITION

MATCHLINE STA. 159+50

MATCHLINE STA. 164+75

160+00 161+00 162+00 163+00 164+00

℄ RTE D (PAGE AVE)

+22.95 EXIST. R/W +22.93

+91.22 +96.73 +29.02

S75°08'22"E
14.78'

+74.83
50.00'

+60.05
50.00'

N14°55'30"E
12.50'

S14°55'30"W
12.52'

DRWY
161+94.80 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-4.12% AT CL

T.C.E.

+74.81
62.52'

+60.03
62.50'

N75°04'30"W
14.78'

EXIST. R/W

6310 PAGE AVE
N/F STEWART, DANIEL
BK 24713 PG 94, PARCEL ID# 17H510622
NO ACQUISITION

6308 PAGE AVE
N/F
STEWART, EULIUS T
BK 24713 PG 165
PARCEL ID# 17H510604
NO ACQUISITION

DRWY 160+35.05 RT.
11' WIDE PAVED
APPROACH (8")
GRADE=+1.5%/+2.9% AT CL

6306 PAGE AVE
N/F
GRE PAGE LLC
BK 24346 PG 1996
PARCEL ID# 17H521255
NO ACQUISITION

DRWY
160+73.81 RT.
20' WIDE PAVED
APPROACH (8")
GRADE = +1.0%
AT CL

6302 PAGE AVE
N/F
VEEJAY LLC
BK 18207 PG 330
PARCEL ID# 17H522168
NO ACQUISITION

STEPHEN JONES AVENUE

EXIST. R/W

(11)
6250 PAGE AVE
N/F
WELLSTON FOOD MARKET INC
BK 21617 PG 676
PARCEL ID# 17H522157
185 SF TCE
16641 SF ORIGINAL
16641 SF REMAINING

STEPHEN JONES AVE.
161+35.13 RT.
37.5' WIDE 8" PCC
PAVEMENT
GRADE = -5.0%/
-1.5%/-4.67% AT CL

DRWY
162+97.76 RT.
30' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-2.85% AT CL

6244 PAGE AVE
N/F
SAID, MIKE ETAL
BK 12603 PG 2447
PARCEL ID# 17H521167
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

DRWY
163+51.18 RT.
40' WIDE PAVED
APPROACH (8")
GRADE = -1.5%
/-6.60% AT CL

6240 PAGE AVE
N/F
WELLSTON FOOD MARKET INC
BK 23478 PG 1511
PARCEL ID# 17H521167
NO ACQUISITION

6236 PAGE AVE
N/F
REAL ESTATE HOLDINGS
PLUS LLC
BK 23506 PG 1536
PARCEL ID# 17H521156
NO ACQUISITION

DRWY
164+42.18 RT.
24' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+10.5%
/+16.48% AT CL

6230 PAGE AVE
N/F
PAGE INN INC
BK 15108 PG 2682
PARCEL ID# 17H522333
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

ROUTE D
ROW SHEET
14 OF 17

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\036-051_ROW Sheets_J6S3215B.dgn 7/3/2025

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SCALE
0 20 40 60

6225 PAGE AVE
N/F
SMITH, DAVID W
BK 07265 PG 0155
PARCEL ID# 17H521402
NO ACQUISITION

6221 PAGE AVE
N/F
WELLSTON, CITY OF
DOC. 202305170051 6
PARCEL ID# 17H521398
NO ACQUISITION

6219 PAGE AVE
N/F
SUMERIN, NASER H
BK 19631 PG 751
PARCEL ID# 17H521376
NO ACQUISITION

6215 PAGE AVE
N/F
LACY, LAWRENCE
BK 21852 PG 1099
PARCEL ID# 17H521354
NO ACQUISITION

6211 PAGE AVE
N/F
WILSON, MYRON
BK 21608 PG 239
PARCEL ID# 17H521343
NO ACQUISITION

6201 PAGE AVE
N/F
CLAYTON CAPITAL ASSETS LLC
BK 22327 PG 474
PARCEL ID# 17H521301
NO ACQUISITION
ACCESS CHANGE WITHIN ROW

DRWY
167+53.46 LT.
28' WIDE PAVED
APPROACH (8")
GRADE = +1.0%/-1.5%
/-2.44% AT CL

SEE NEXT SHEET
FOR PROPERTY INFO

EXIST. R/W
MORTON AVENUE
EXIST. R/W
EXIST. R/W

MATCHLINE STA. 164+75

℄ RTE D (PAGE AVE)
165+00
166+00
168+00
169+00
PC STA 167+40.56 R9
PT STA 169+76.66 R9
EQUATION:
STA 167+40.86 BK =
STA 167+40.56

MATCHLINE STA. 170+00

S75°08'22"E
92.95'
+21.70
50.00'
+28.75
50.00'
EXIST. R/W
T.C.E.
S14°55'30"W
5.00'
N14°51'38"E
5.00'
+28.75
55.00'
N75°08'22"W
92.95'
+21.69
55.00'

DRWY
166+25.42 RT.
7.5' WIDE PAVED
APPROACH (8")
GRADE = +1.5%/+10.5%
+25.48% AT CL

DRWY
167+61.84 RT.
110' WIDE PAVED
APPROACH (8")
GRADE = +0.82% AT CL

6200 PAGE AVE
N/F
MORIZ LLC
BK 21894 PG 2100
PARCEL ID# 17H522047
NO ACQUISITION

6212 PAGE AVE
N/F
FAIZAN, SHAIKA ABDUL
BK 23787 PG 375
PARCEL ID# 17H521035
NO ACQUISITION

EXIST. R/W
MORTON AVENUE

PI	168+59.83
PC	167+40.56
PT	169+76.66
Δ	20°1'16.9" (RT)
D	8°28'48.4"
L	236.10' (ARC)
T	119.27'
R	675.65'

MORTON AVE.
168+52.34 RT.
28' WIDE 8" PCC
PAVEMENT
GRADE = +1.0% AT CL

EXIST. R/W
6162 PAGE AVE
N/F
ADAMS, BRIAN
BK 23759 PG 447
PARCEL ID# 17H520944
NO ACQUISITION

6156 PAGE AVE
6154 PAGE AVE
6152 PAGE AVE
N/F
WALKER, KENNETH TRUSTEE
BK 16115 PG 0228, PARCEL ID# 17H520870
BK 16115 PG 0228, PARCEL ID# 17H520843
BK 16115 PG 0228, PARCEL ID# 17H520807
NO ACQUISITION

EXIST. R/W

SEE PREVIOUS SHEET
FOR PROPERTY INFO

(12)
6220 PAGE AVE
6216 PAGE AVE
N/F
WALKER, KENNETH TRUSTEE
BK 16115 PG 0228, PARCEL ID# 17H521080
BK 16115 PG 0228, PARCEL ID# 17H521068
465 SF TCE
15315 SF ORIGINAL
15315 SF REMAINING

ROW SHEET LEGEND
- EXISTING RIGHT OF WAY (EXIST. R/W)
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- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
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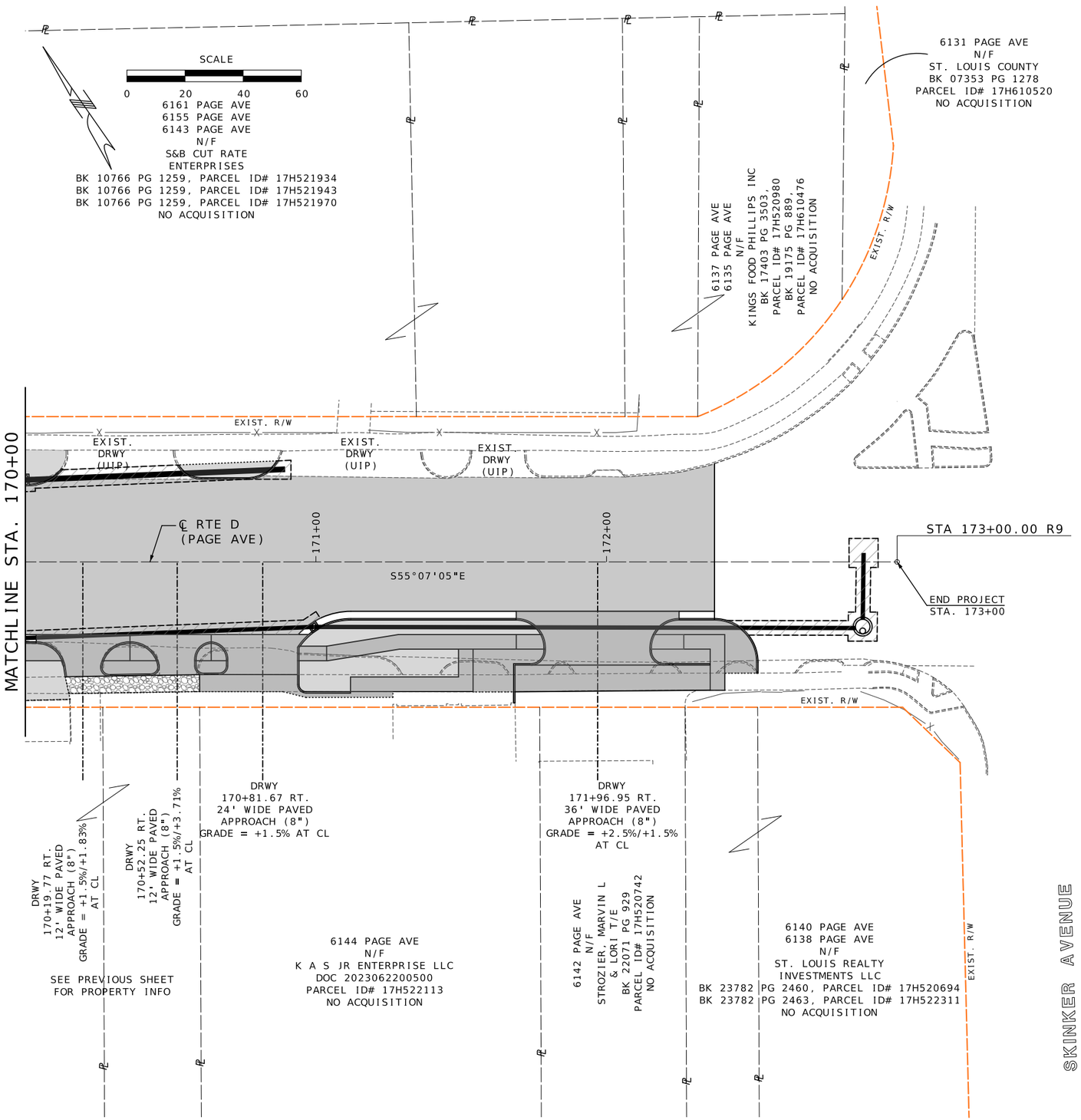
DESCRIPTION	DATE

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

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ROUTE D
ROW SHEET
15 OF 17

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ROW SHEET LEGEND

- EXISTING RIGHT OF WAY (EXIST. R/W)
- PERMANENT TRAFFIC SIGNAL EASEMENT (P.T.S.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED IMPROVEMENTS
- P.T.S.E. AREA
- T.C.E. AREA

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ROUTE D
ROW SHEET
16 OF 17

ROW IMPACTS

PARCEL NO.	LOCATOR NO.	PARCEL ADDRESS	OWNER NAME	OWNER ADDRESS (PER STL CO ASSESSOR)	PERMANENT TRAFFIC SIGNAL EASEMENT (SF)	TEMPORARY CONSTRUCTION EASEMENT (SF)
1 - VOID	16J310325 16J311393	7101 PAGE AVE 7103 PAGE AVE	AFANEH THAIR	7101 Page Ave, Saint Louis MO, 63133		
2	16K630084	7017 PAGE AVE	HIMA NIDAL & DINA H/W ETAL	7017 Page Ave, Saint Louis MO, 63133		323
3	16J310172 16J311294	7013 PAGE AVE 7001 PAGE AVE	WEST PORT STL INC	240 Crescent Ave, Valley Park MO, 63088		746
4	16J320050	6917 PAGE AVE	FIELDS HOWARD E CHRISTINE E H/W	4421 Deer Valley Dr, Florissant MO, 63034		272
5	16J320038 16J320016	6915 PAGE AVE 6913 PAGE AVE	NATOSHA SNOWDEN	2002 Congressional Dr Unit 28484, Saint Louis, MO 63146		260
6	17J641844	6907 PAGE AVE	CROSS JANITORIAL SERVICES	6907 Page Ave, Saint Louis MO, 63133		482
7	17J642043 17J641691 17J640920 17J640898 17J640931 17H432078 17H430964 17H440383 17H430946 17H430937 17H440383 17H430919 17H430900 17H430890 17H430872	6746 PAGE AVE 6744 PAGE AVE 6740 PAGE AVE 6734 PAGE AVE 6732 PAGE AVE 6724 PAGE AVE 6720 PAGE AVE 6718 PAGE AVE 6716 PAGE AVE 6714 PAGE AVE 6712 PAGE AVE 6710 PAGE AVE 6708 PAGE AVE 6702 PAGE AVE 1285 KINGSLAND AVE	24:1 COMMUNITY LAND TRUST	6506 Wright Way, Saint Louis MO, 63121		1791
8	17H440383 17H440394 17H440372 17H440305	6490 PAGE AVE 6489 PAGE AVE 6482 PAGE AVE 6470 PAGE AVE	F&R PROPERTIES LLC	6490 Page Blvd, Saint Louis MO, 63133	22	115
9	17H511092	6440 PAGE AVE	LAND CLEARANCE REDEVELOPMENT AUTHORITY OF ST. LOUIS COUNTY	7733 Forsyth Blvd Suite 2300, Saint Louis MO, 63105		274
10	17H530055 17H530044 17H530033 17H530022	6411 PAGE AVE 6407 PAGE AVE 6403 PAGE AVE 6401 PAGE AVE	S&B CUT RATE ENTERPRISES	6403 Page Ave, Saint Louis MO, 63133 AND 1314 Ogden Ave, Saint Louis MO, 63133		59
11	17H522157	6250 PAGE AVE	WELLSTON FOOD MARKET	6250 Page Ave, Saint Louis MO, 63133		185
12	17H521080 17H521068	6220 PAGE AVE 6216 PAGE AVE	WALKER KENNETH TRUSTEE	41 Greendale Drive, Saint Louis, MO 63121		465

ACCESS CHANGES WITHIN ROW

LOCATOR #	PARCEL ADDRESS	OWNER NAME	OWNER ADDRESS (PER STL CO ASSESSOR)
17J641185	6731 PAGE AVE	ROJO REALTY SRVCS LLC	4214 Bingham Ave, Saint Louis MO, 63116
17H431143 17H432056 17H431154	6715 PAGE AVE 6711 PAGE AVE 6709 PAGE AVE	24:1 COMMUNITY LAND TRUST	6506 Wright Way, Saint Louis MO, 63121
17H430863	6692 PAGE AVE	CITY OF PAGEDALE	1404 Ferguson Ave, Saint Louis MO, 63133
17H440141	6520 PAGE AVE	ROJO REALTY SERVICES LLC	4214 Bingham Ave, Saint Louis MO, 63116
17H440130 17H440121	6516 PAGE AVE 6510 PAGE AVE	JPH REALTY LLC	607 Loughmor Pass, Saint Charles MO, 63304
17H440112	6500 PAGE AVE	WHITE OAK JJK LLC	39 Lake Mill Ln, Chesterfield MO, 63017
17H521552	6251 PAGE AVE	AL PERRY HOUSING RENTAL LLC	7889 Wayne St, Saint Louis MO, 63130
17H521167	6244 PAGE AVE	SAID MIKE ETAL	985 Stonecastle Dr, O Fallon MO, 63366
17H521301	6201 PAGE AVE	CLAYTON CAPITAL ASSETS LLC	6250 Page Ave, Saint Louis MO, 63133

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

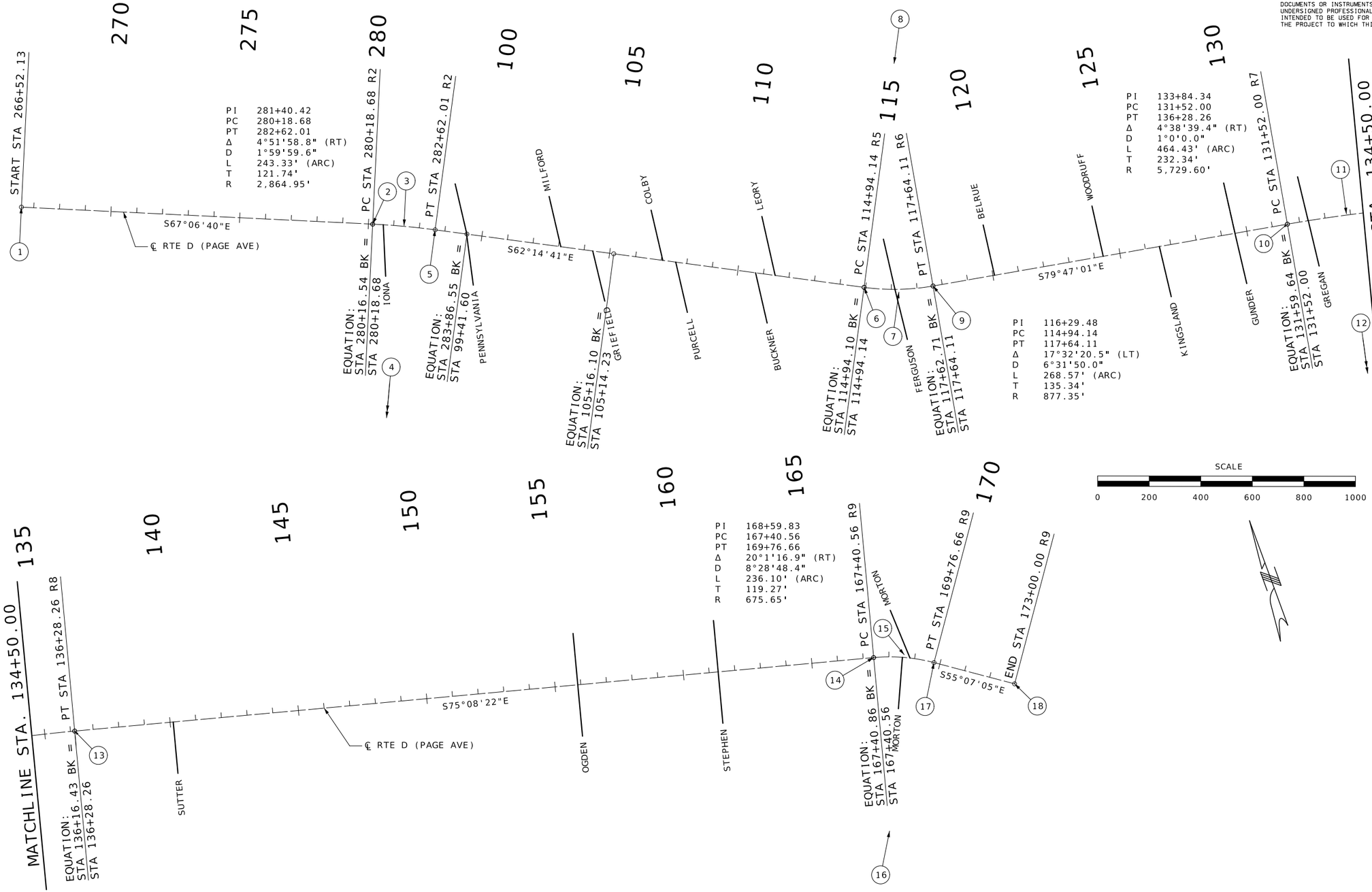
DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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ROUTE D
ROW SHEET
17 OF 17

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ROUTE D

COORDINATE POINTS
1 OF 2

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

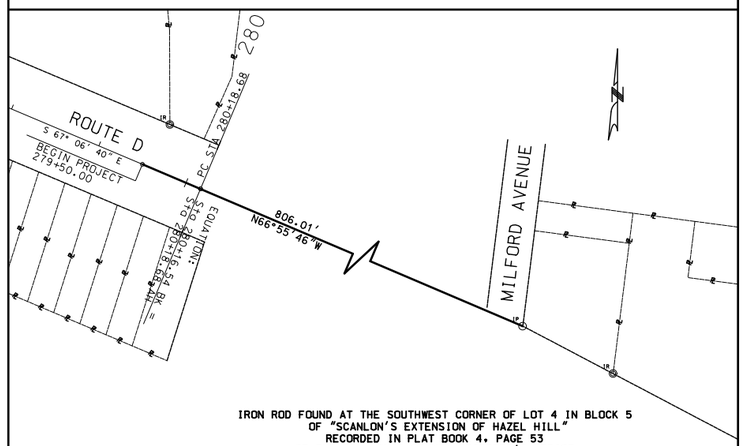
BRIDGE NO.
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DATE	DESCRIPTION
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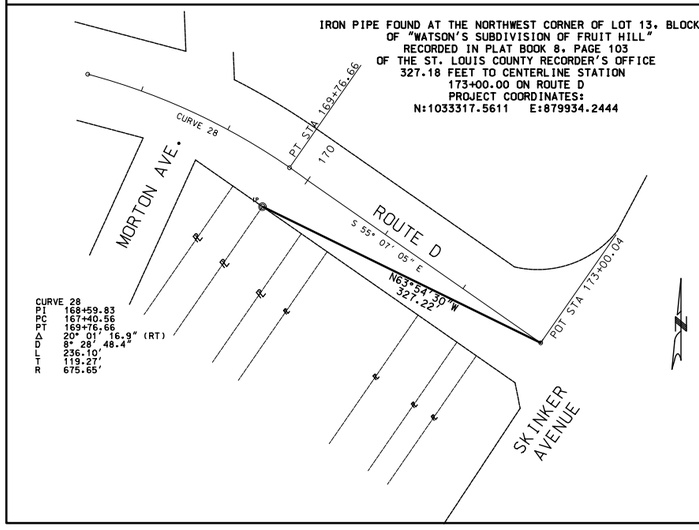
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LAND TIE #1



IRON ROD FOUND AT THE SOUTHWEST CORNER OF LOT 4 IN BLOCK 5
OF "SCANLON'S EXTENSION OF HAZEL HILL"
RECORDED IN PLAT BOOK 4, PAGE 53
OF THE ST. LOUIS COUNTY RECORDER'S OFFICE
806.01 FEET TO CENTERLINE STATION
279+50.00 ON ROUTE D
PROJECT COORDINATES:
N:1035602.790 E:872894.702

LAND TIE #2



IRON PIPE FOUND AT THE NORTHWEST CORNER OF LOT 13, BLOCK 5
OF "WATSON'S SUBDIVISION OF FRUIT HILL"
RECORDED IN PLAT BOOK 8, PAGE 103
OF THE ST. LOUIS COUNTY RECORDER'S OFFICE
327.18 FEET TO CENTERLINE STATION
173+00.00 ON ROUTE D
PROJECT COORDINATES:
N:1033317.5611 E:879934.2444

DESIGN PT. ID	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
1	266+52.13	0.00	1036107.592	871699.026	P.O.T. OF TANGENT
2	280+18.68	0.00	1035576.909	872956.003	P.C. OF TANGENT
3	281+40.42	2.59' LT	1035529.560	873068.156	P.I. OF TANGENT
4	282+62.01	2864.95' RT	1032937.544	871841.691	C.C. OF CURVE
5	282+62.01	0.00	1035472.867	873175.887	P.T. OF TANGENT
6	114+94.14	0.00	1034691.007	874661.626	P.C. OF TANGENT
7	116+29.48	10.38' RT	1034627.978	874781.397	P.I. OF TANGENT
8	114+94.14	877.35' LT	1035457.413	875070.204	C.C. OF CURVE
9	117+64.11	0.00	1034603.973	874914.594	P.T. OF TANGENT
10	131+52.00	0.00	1034356.456	876287.997	P.C. OF TANGENT
11	133+84.34	4.71' LT	1034315.247	876516.656	P.I. OF TANGENT
12	136+28.26	5729.60' RT	1028717.697	875271.773	C.C. OF CURVE
13	136+28.26	0.00	1034255.659	876741.226	P.T. OF TANGENT
14	167+40.56	0.00	1033457.379	879749.723	P.C. OF TANGENT
15	168+59.83	10.45' LT	1033426.791	879864.999	P.O.T. OF TANGENT
16	169+76.66	675.65' RT	1032804.327	879576.441	C.C. OF CURVE
17	16976.66	0.00	1033358.585	879962.836	P.T. OF TANGENT
18	173+00.00	0.00	1033173.670	880228.084	P.O.T. OF TANGENT

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	STATEPLANE MO EAST FIPS 2401
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	GEOID12B
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	STATEPLANE MO EAST FIPS 2401
CONTROL STATION	MODOT VRS
DESIGNATION	SEILER TREECOURT CORS ARP
CORS_ID	MOBF
PID	DN6075
LATITUDE	38°45' 51.51915" (N)
LONGITUDE	90°14' 47.69248" (W)
NORTHING (M)	325298.422
EASTING (M)	272023.946
ZONE	MISSOURI EAST 2401
PROJECT AVERAGE GRID FACTOR	0.99991221

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 1051959.896 X 0.99991221 = N 1051867.544
E 867274.252 X 0.99991221 = E 867198.114

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

PROJECTION FACTOR = 1.0000878

NOTE:
THE PROJECTION FACTOR US USED AS A MULTIPLIER FROM STATE PLANE DISTANCES TO GROUND DISTANCES. THE FACTOR WAS APPLIED FROM COORDINATE 0,0.

COORDINATE POINT SYSTEM:
US STATE PLANCE NAD83
ZONE 2401 (MISSOURI EAST) -
MODIFIED TO GROUND
VERTICAL DATUM: NAVD88

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

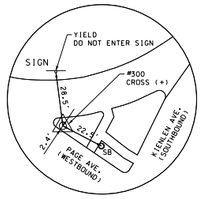
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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ROUTE D
COORDINATE POINTS
2 OF 2

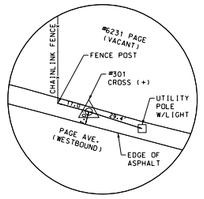
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CP #300 STA. 172+90.54
N = 1033207.4567 34.59' LT
E = 880240.1043 ROUTE D
Z = 528.715



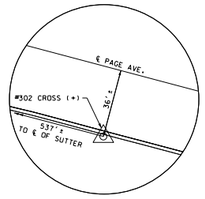
CUT CROSS (+) ON CONC.
TURN ISLAND

CP #301 STA. 164+26.36
N = 1033573.4848 36.67' LT
E = 879455.1424 ROUTE D
Z = 550.244



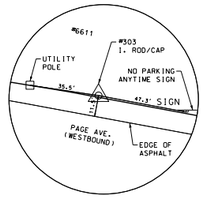
CUT CROSS (+) AT END
OF CONC. WALK

CP #302 STA. 145+54.77
N = 1033983.2648 35.98' RT
E = 877627.5209 ROUTE D
Z = 542.733



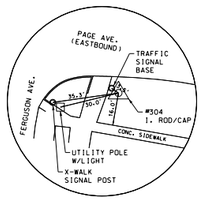
CUT CROSS (+) ON CONC. WALK
OF OVERPASS

CP #303 STA. 131+27.38
N = 1034401.2395 39.69' LT
E = 876263.2872 ROUTE D
Z = 566.359



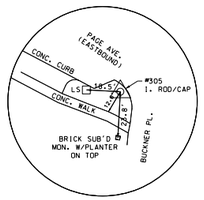
SET IRON ROD WITH CAP

CP #304 STA. 116+81.03
N = 1034591.4742 31.87' RT
E = 874826.452 ROUTE D
Z = 532.022



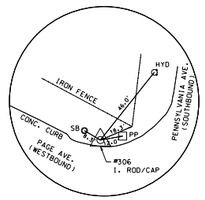
SET IRON ROD WITH CAP

CP #305 STA. 110+55.51
N = 1034868.8605 29.82' RT
E = 874259.6133 ROUTE D
Z = 531.663



SET IRON ROD WITH CAP

CP #306 STA. 283+02.21
N = 1035485.6827 35.64' LT
E = 873228.0587 ROUTE D
Z = 518.449



SET IRON ROD WITH CAP

ST. LOUIS COUNTY BM 9471
NAVD88 ELEV = 594.66 FTUS
CUT "U" ON THE TOP EAST EDGE OF THE ROUND CONCRETE BASE FOR A SMALL TRAFFIC SIGNAL SITUATED ON THE SOUTHWEST CORNER OF THE INTERSECTION OF PAGE AVENUE WITH HANLEY ROAD, IMMEDIATELY SOUTH OF THE STOP LINE AT THE EAST END OF THE RIGHT TURN LANE ALONG THE SOUTH SIDE OF EASTBOUND PAGE AVENUE; ROUGHLY 48 FEET NORTHWEST OF THE NORTHERN BULL NOSE END OF THE MEDIAN ISLAND WITHIN HANLEY ROAD, 84 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE JIFFY LUBE BUILDING ADDRESSED AS #8000 PAGE AVENUE, AND 5 FEET SOUTHWEST OF A WOODEN UTILITY POLE WITH MULTIPLE CROSS ARMS AND AN OVERHEAD STREET LAMP.

ST. LOUIS COUNTY BM 9033
NAVD88 ELEV = 586.84 FTUS
"SQ" ON NORTHWEST CORNER BOTTOM STEP OF LOWER FLIGHT OF STEPS OFF DRIVEWAY AT YARD ENTRANCE TO HOUSE #8506 PAGE AVENUE; 50' SOUTH OF CENTERLINE PAGE AVENUE AND 230' EAST OF CRYSTAL COURT DRIVE.

ST. LOUIS COUNTY BM 9141
NAVD88 ELEV = 595.94 FTUS
"U" ON CONCRETE WALK 0.3' EAST OF ONE-STORY COMMERCIAL BUILDING #1523 NORTH AND SOUTH ROAD; SOUTHWEST CORNER NORTH AND SOUTH ROAD AND MILAN AVENUE.

ST. LOUIS COUNTY BM 14308
NAVD88 ELEV = 508.58 FTUS
"SQ" ON THE CENTER OF THE NORTHWEST WINGWALL OF BRIDGE; 25' WEST OF THE CENTERLINE OF FERGUSON AVENUE AND 25' SOUTH OF THE CENTERLINE OF MELROSE AVENUE SOUTHBOUND.

ST. LOUIS COUNTY BM 14432
NAVD88 ELEV = 502.96 FTUS
RM 499 FEMA PANEL 191; "O" IN OPEN ON FIRE HYDRANT; NORTH SIDE OF ETZEL AVENUE AT THE ENTRANCE TO THE GENERAL ELECTRIC PARKING LOT ABOUT 100 FEET EAST OF ENGELHOLM CREEK.

ST. LOUIS COUNTY BM 14441
NAVD88 ELEV = 526.71 FTUS
RM 402 FEMA PANEL 187; "O" IN OPEN ON FIRE HYDRANT; NORTHEAST CORNER OF PENNSYLVANIA AVENUE AND DUNLEER WAY.

ST. LOUIS COUNTY BM 14465
NAVD88 ELEV = 523.59 FTUS
RM 403 FEMA PANEL 187; "O" IN OPEN ON FIRE HYDRANT AT THE NORTHWEST CORNER OF PENNSYLVANIA AVENUE AND ELTORA AVENUE.

ROUTE D
REFERENCE POINTS
1 OF 1

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D	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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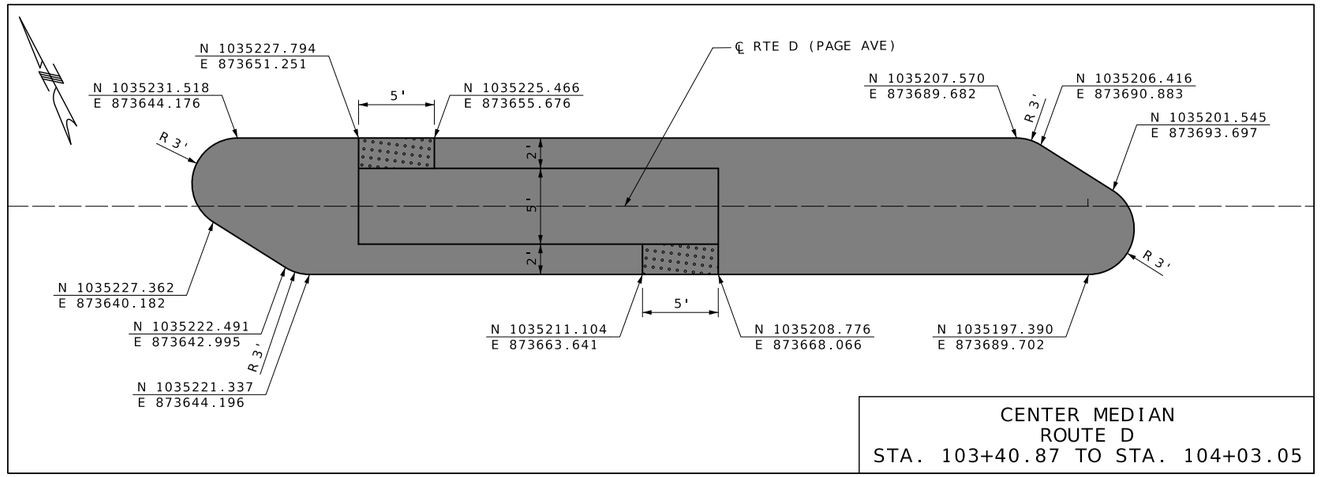
DATE	DESCRIPTION
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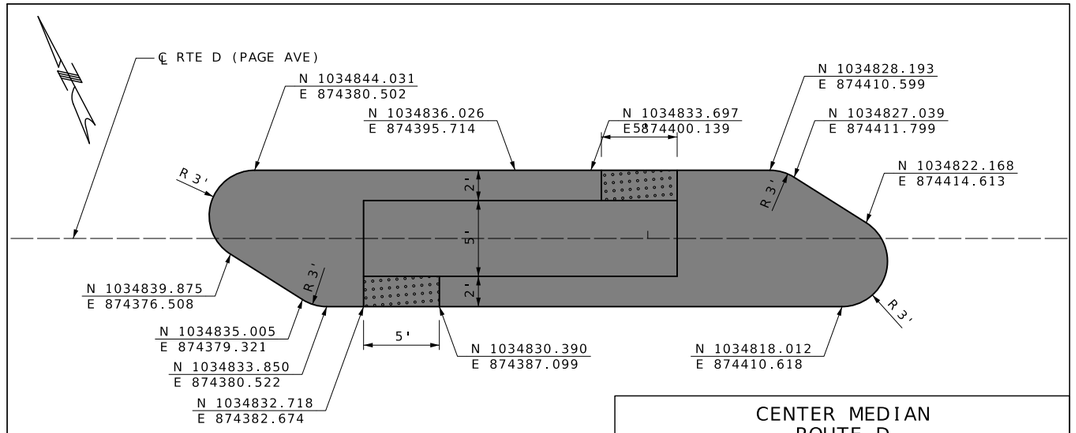
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SCALE

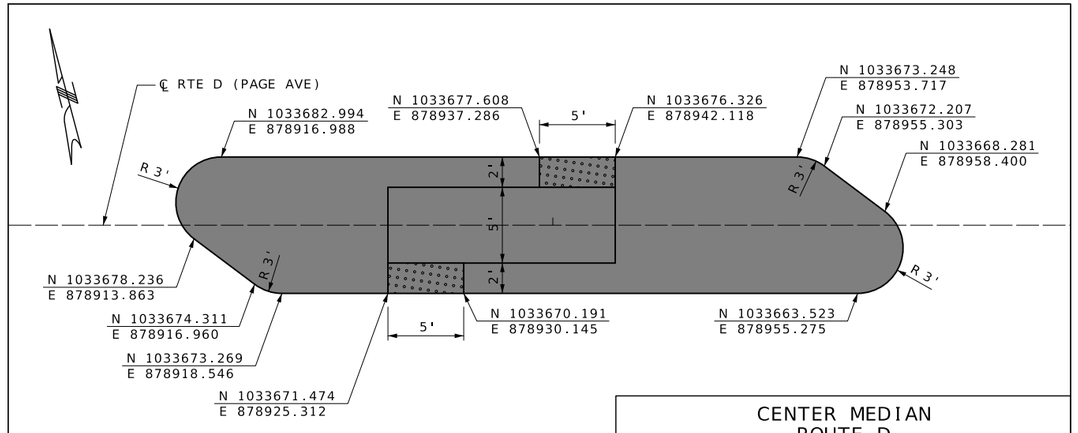
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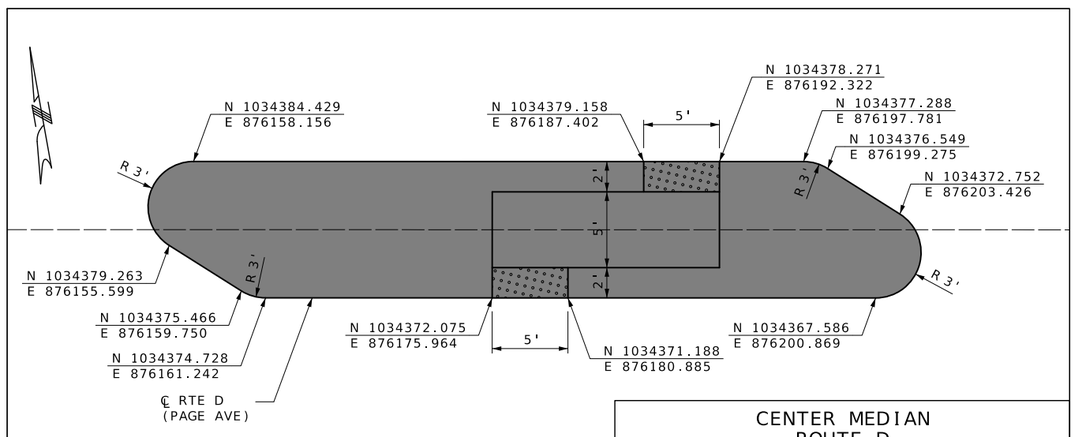
CENTER MEDIAN
ROUTE D
STA. 103+40.87 TO STA. 104+03.05



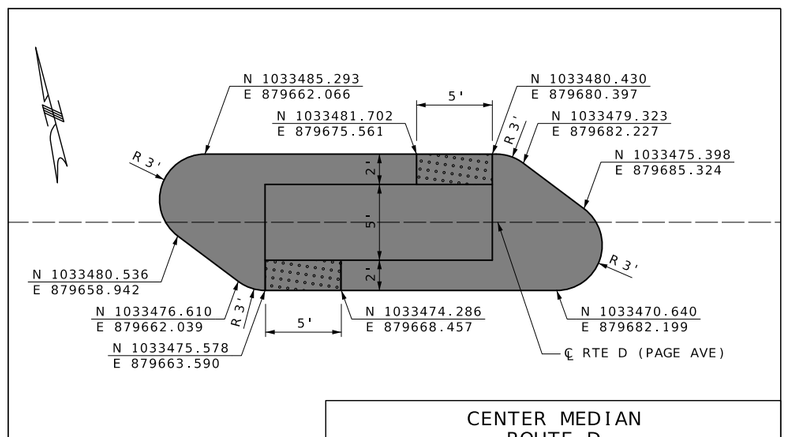
CENTER MEDIAN
ROUTE D
STA. 111+71.05 TO STA. 112+15.82



CENTER MEDIAN
ROUTE D
STA. 158+75.12 TO STA. 159+23.12



CENTER MEDIAN
ROUTE D
STA. 130+23.89 TO STA. 130+74.92



CENTER MEDIAN
ROUTE D
STA. 166+45.98 TO STA. 166+75.20

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NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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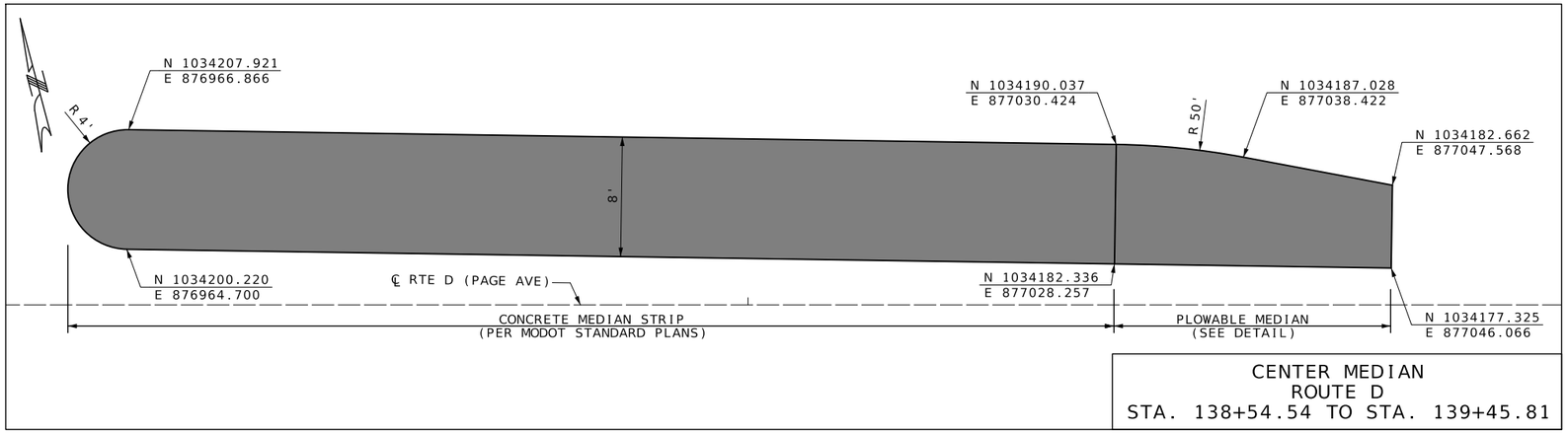
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ROUTE D

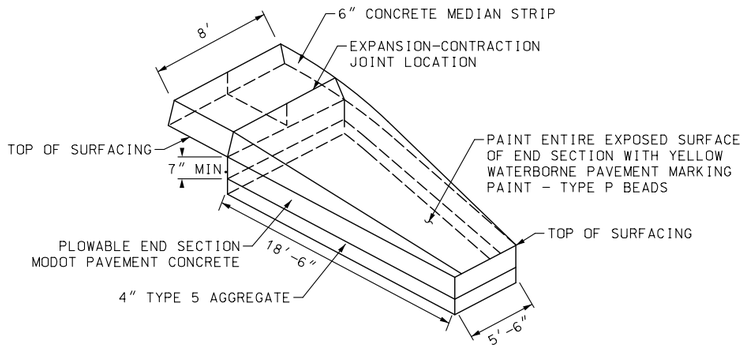
MEDIAN DETAILS
1 OF 2

SCALE

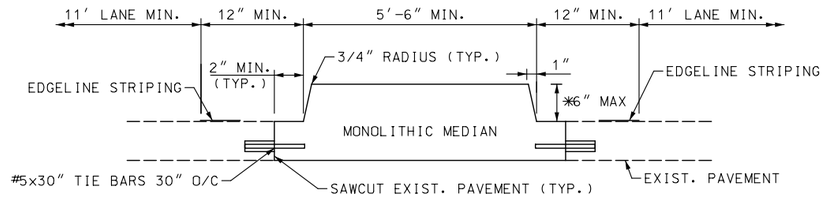
0 5 10 15



CENTER MEDIAN
ROUTE D
STA. 138+54.54 TO STA. 139+45.81



PLOWABLE END DETAIL



PLOWABLE END SECTION VIEW

*HEIGHT TRANSITIONS UNIFORMLY FROM 6" TO 0" (TOP OF SURFACING)

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

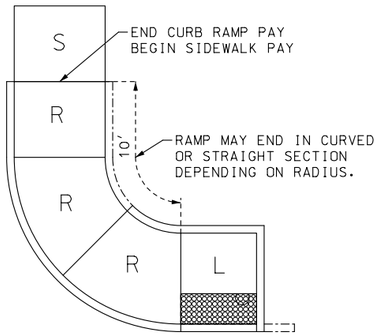
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ROUTE D

MEDIAN DETAILS
2 OF 2

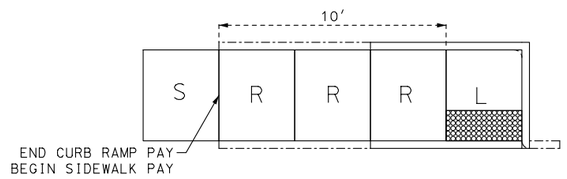
PEDESTRIAN CURB RAMP PAY LIMITS

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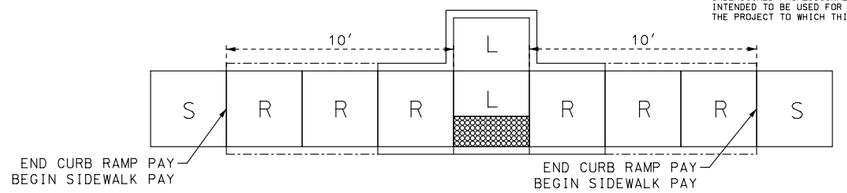


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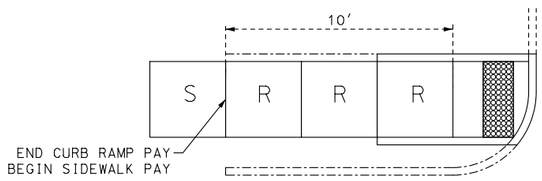
THE LENTH OF THIS RAMP SHALL BE MEASURED ON THE INSIDE/SHORT SIDE OF THE CURVE



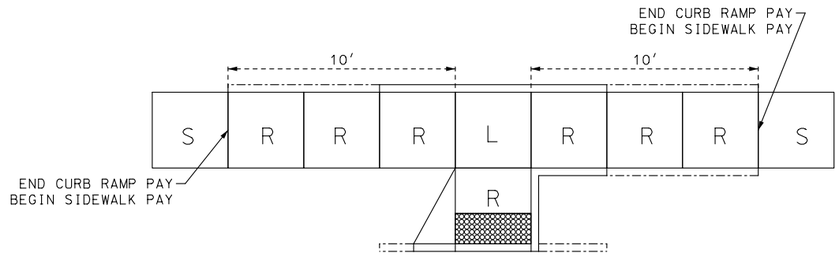
TYPE 2 PARALLEL



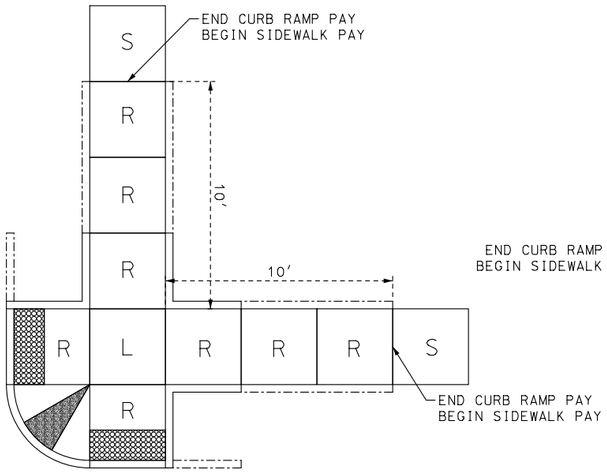
TYPE 3 PARALLEL



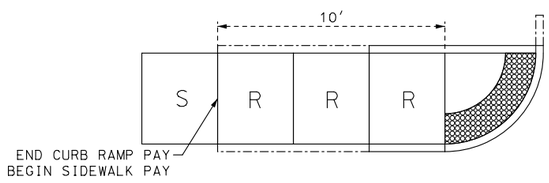
SMALL RADIUS PERPENDICULAR



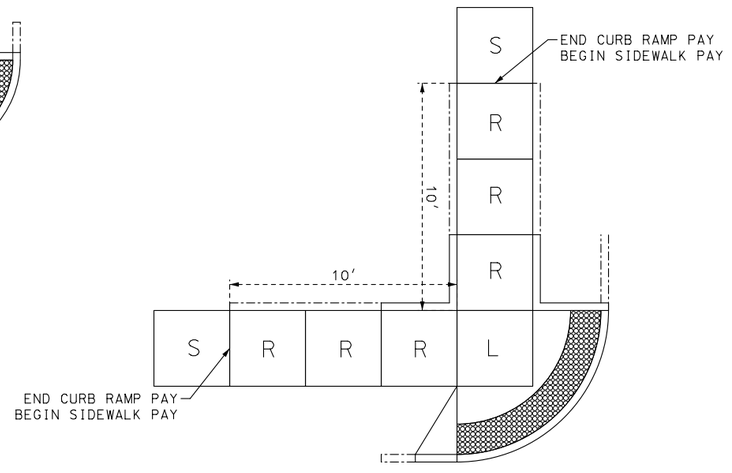
COMPOUND PERPENDICULAR



DUAL PERPENDICULAR
PAY AS 2 EACH



LARGE RADIUS PERPENDICULAR



BLENDED TRANSITION
PAY AS 2 EACH

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

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

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

CURB RAMP
PAY LIMIT DETAIL

STATE OF MISSOURI
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

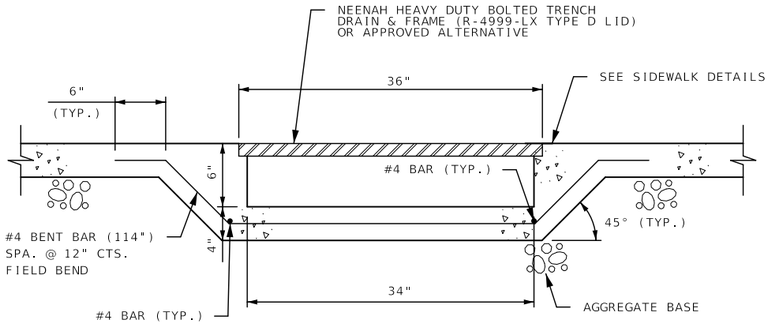
PROJECT NO.

BRIDGE NO.

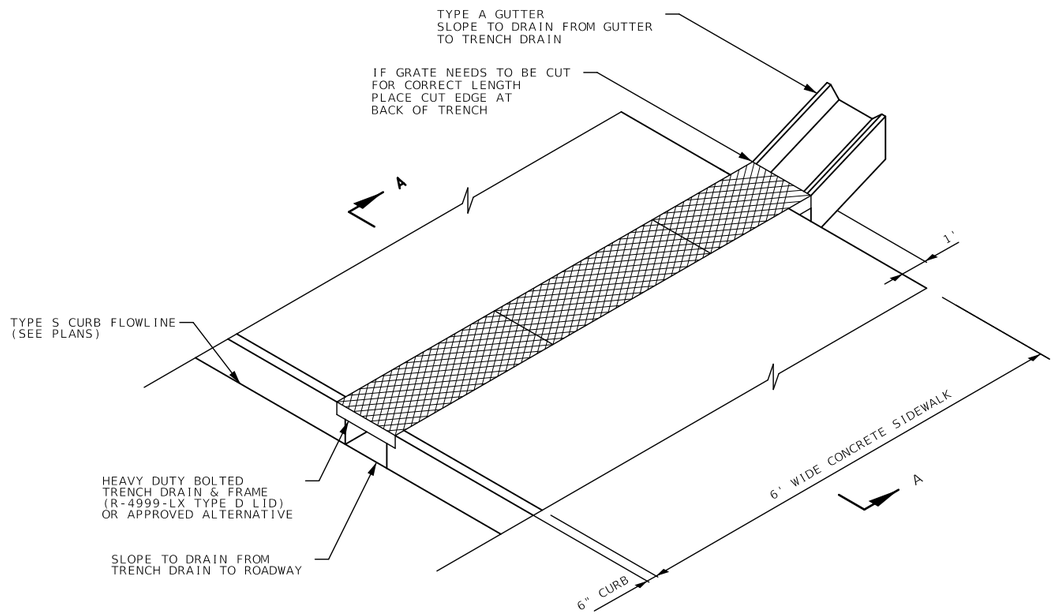
DESCRIPTION	DATE

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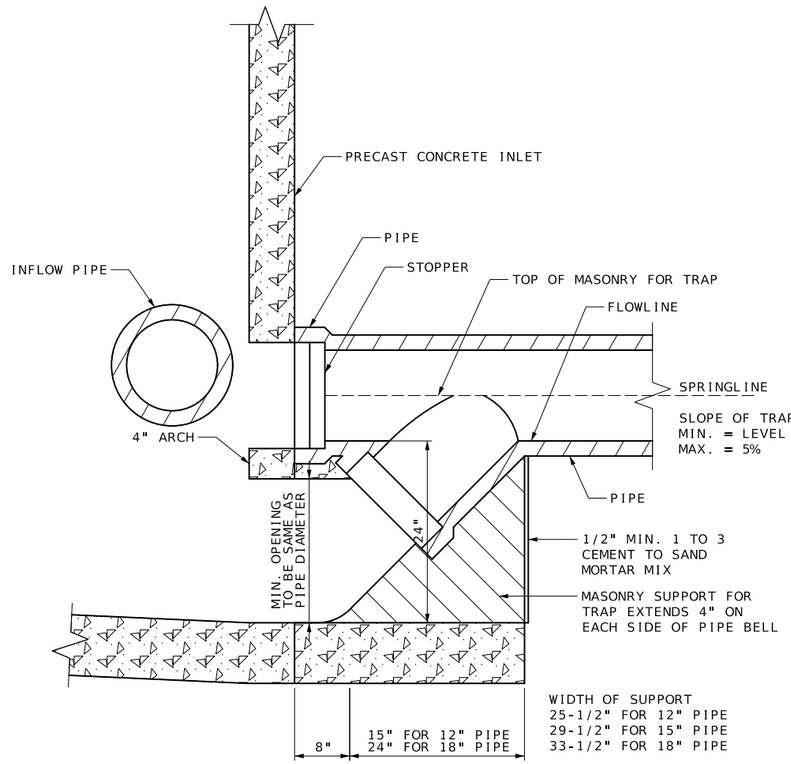
SECTION A-A



NOTE: SIDEWALK TRENCH DRAIN TO BE MAINTAINED BY MODOT.

SIDEWALK TRENCH DRAIN DETAIL

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.



ADDITION OF SUMP TO NON-TRAPPED STANDARD INLETS DETAIL

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

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ST. LOUIS

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J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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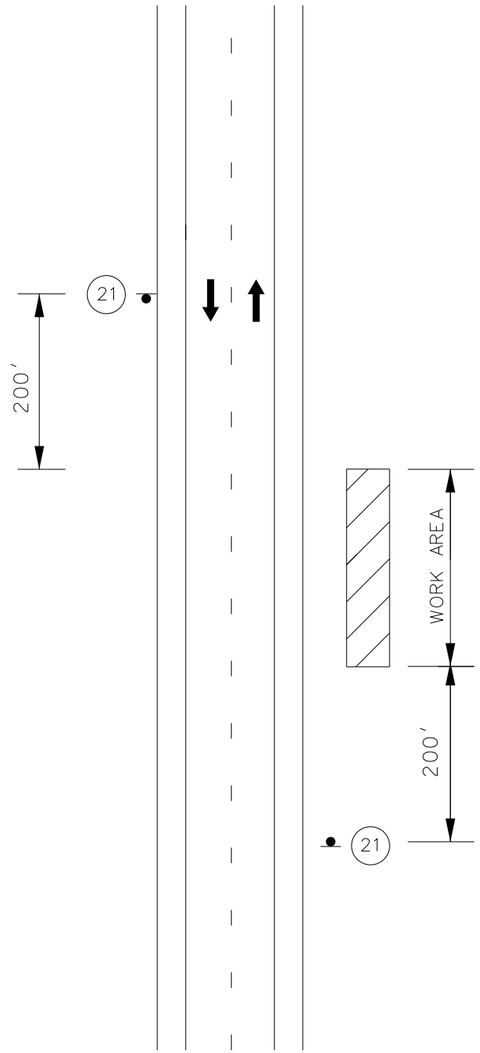
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ROUTE D
DRAINAGE DETAILS





SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	-	-	-	-	-
40-45	350	500	-	-	-	-	-
50-55	500	1000	-	-	-	-	-
60-70	1000	SA-1000 SB-1500 SC-2640	-	-	-	-	-

NOTES:

ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

ON MULTI-LANE, DIVIDED HIGHWAYS,SIGNS ADVISING OF THE SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.

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

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

WORK AREA

SHOULDER WORK
WORK BEYOND THE SHOULDER
DIVIDED AND UNDIVIDED

NOT TO SCALE

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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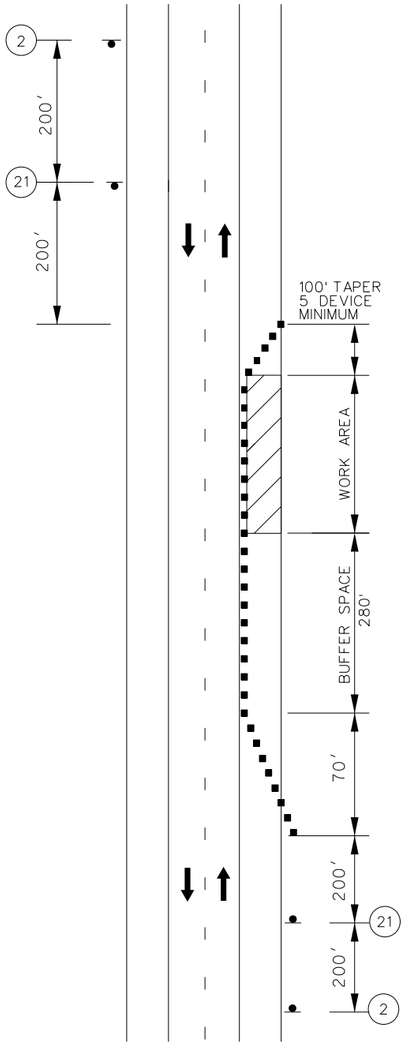
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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WORK BEYOND THE SHOULDER
ROUTE D
TRAFFIC CONTROL
1 OF 20

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WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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





TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

NOT TO SCALE

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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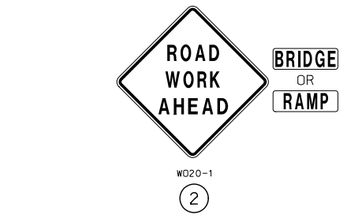
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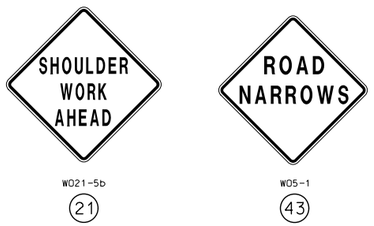
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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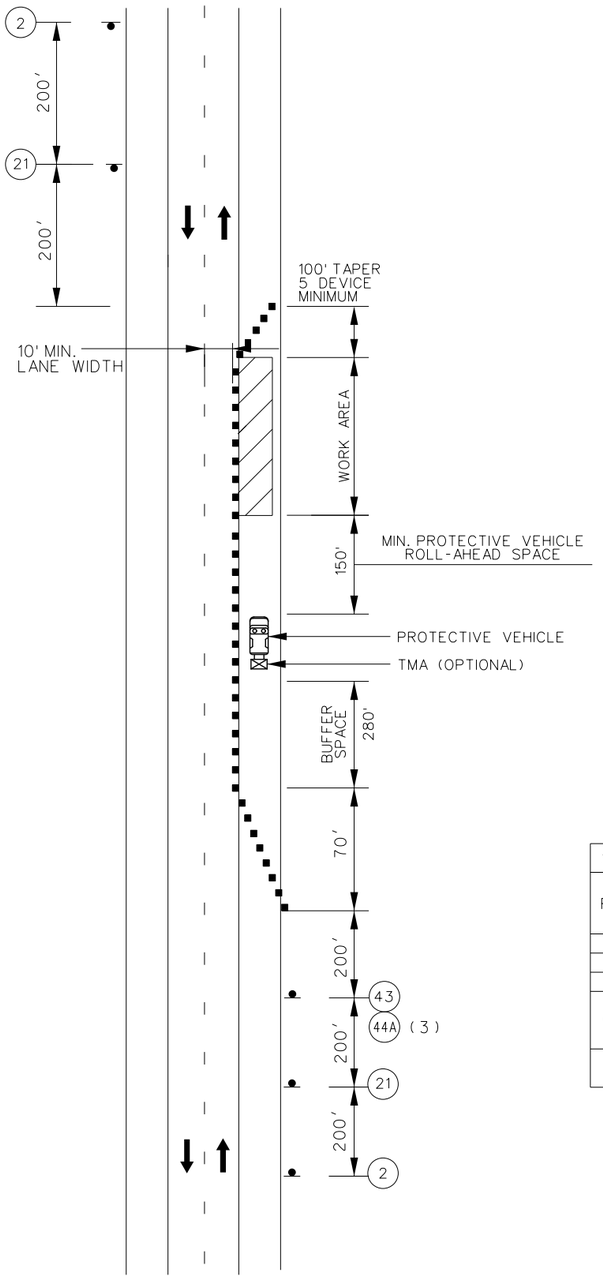
WORK ON THE SHOULDER
ROUTE D
TRAFFIC CONTROL
2 OF 20







(3)



SHOULDER WORK WITH
MINOR TRAVELWAY ENCROACHMENT
DIVIDED AND UNDIVIDED

NOT TO SCALE

NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY IN USE.

(3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

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

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TMA (TRUCK MOUNTED ATTENUATOR)

SHOULDER WORK WITH
MINOR ENCROACHMENT

ROUTE D

TRAFFIC CONTROL
3 OF 20

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NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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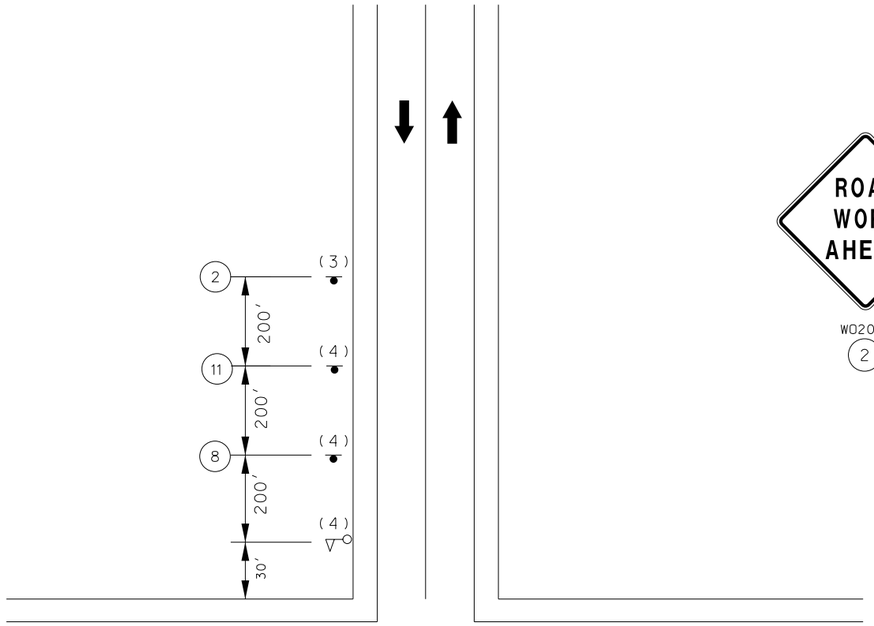
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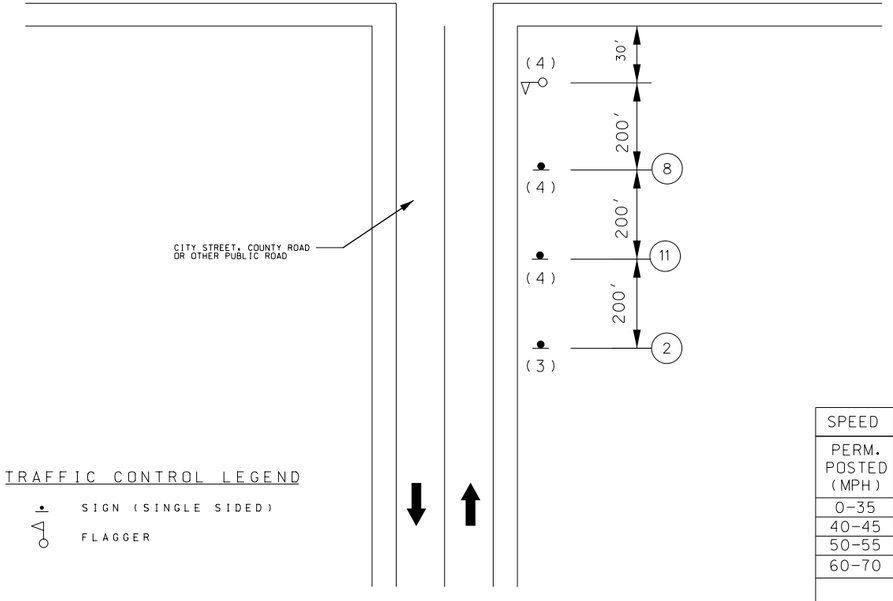
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ROAD UNDER CONSTRUCTION
(WITH OR WITHOUT TRAFFIC)

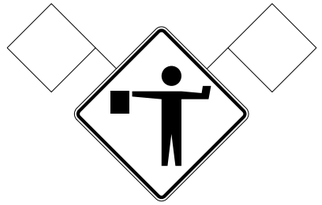


PUBLIC ROAD CROSSING ANOTHER ROAD UNDER CONSTRUCTION

NOT TO SCALE



W020-1
(2)



W020-7a
(8)



W020-4
(7)

NOTES:

ADDITIONAL SIGNING MAY BE REQUIRED BASED ON WORK ZONE ACTIVITIES.

(3) ROAD WORK AHEAD SIGN REQUIRED FOR ALL PUBLIC ROAD APPROACHED TO THE WORK ZONE. IF NO FLAGGERS ARE REQUIRED, THEN THE ROAD WORK AHEAD SIGNS ARE LOCATED "S" FEET FROM THE INTERSECTION.

(4) FLAGGER AND SIGNING ONLY REQUIRED WHERE EQUIPMENT IS CROSSING THE ROAD OR OTHER CONDITIONS REQUIRING FLAGGER CONTROL EXIST.

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

W020-7a MAY BE ENHANCED WITH FLAGS, BUT ONLY DURING DAYTIME HOURS. FLAGS SHOULD NOT BE USED ON SIGNS AT NIGHT, EXCEPT THAT IT IS ALLOWABLE TO LEAVE FLAGS ON SIGNS WHEN THE WORK CARRIES OVER FROM DAY TO NIGHT.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	-	70	245	280	35	40
40-45	350	-	150	540	400	40	80
50-55	500	-	185	660	560	50	80
60-70	1000	-	235	840	840	60	120

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

SIDE ROAD ENTERING WORK ZONE

ROUTE D

TRAFFIC CONTROL
4 OF 20

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
ST. LOUIS

JOB NO.
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PROJECT NO.
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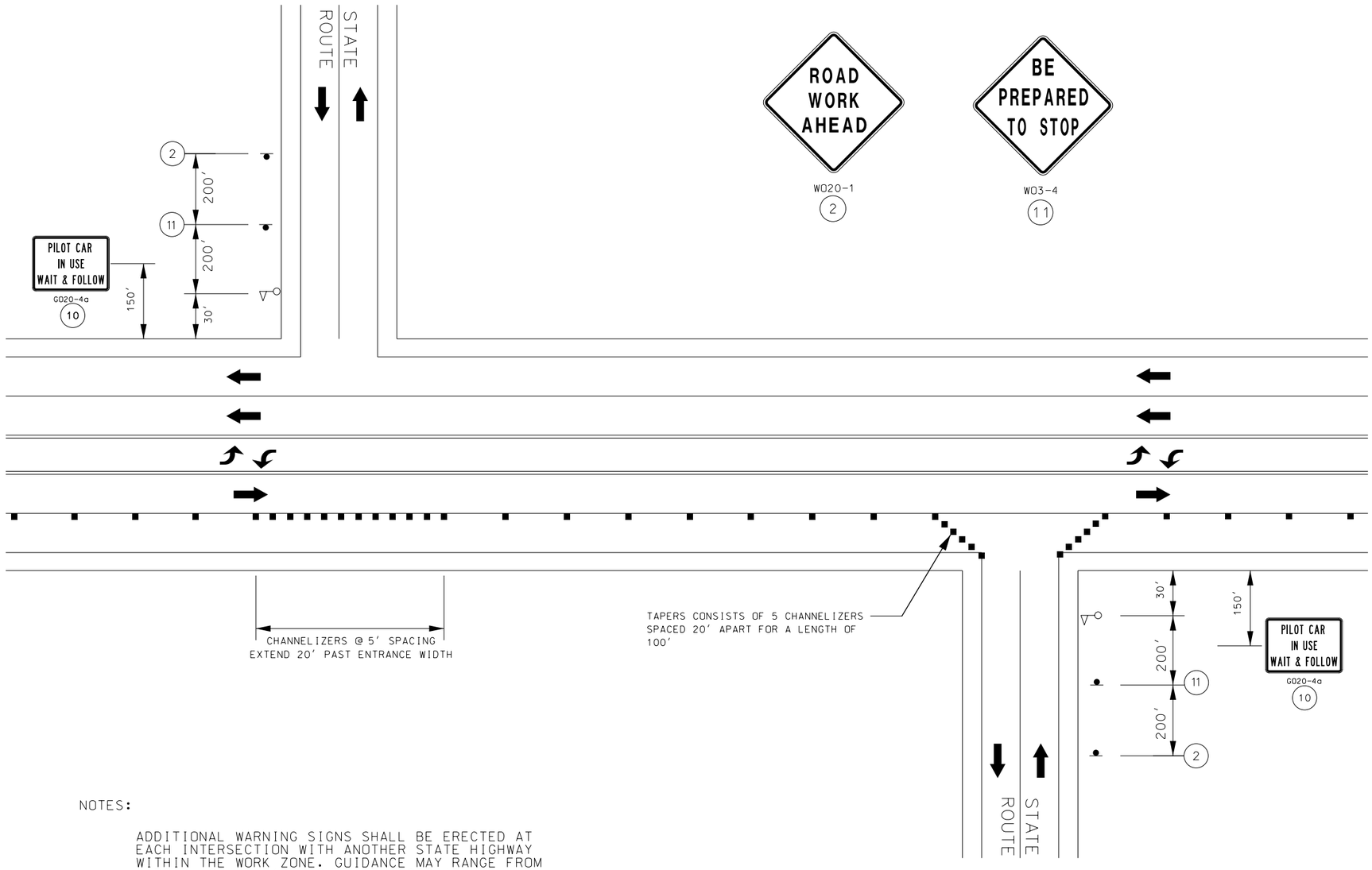
BRIDGE NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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NOTES:

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE. GUIDANCE MAY RANGE FROM A ROAD WORK AHEAD SIGN, A FLAGGER AT AN INTERSECTION, OR USE OF A PILOT CAR.

UPON THE DISCRETION OF THE ENGINEER, ADDITIONAL WARNING SIGNS MAY BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE.

SIDE ROADS ENTERING WORK ZONES

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- FLAGGER

SPEED	SIGN SPACING (ft.)	
PERM. POSTED (MPH)	UN-DIVIDED (S)	DIVIDED (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

NOT TO SCALE

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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D	MO
DISTRICT	SHEET NO.
SL	64

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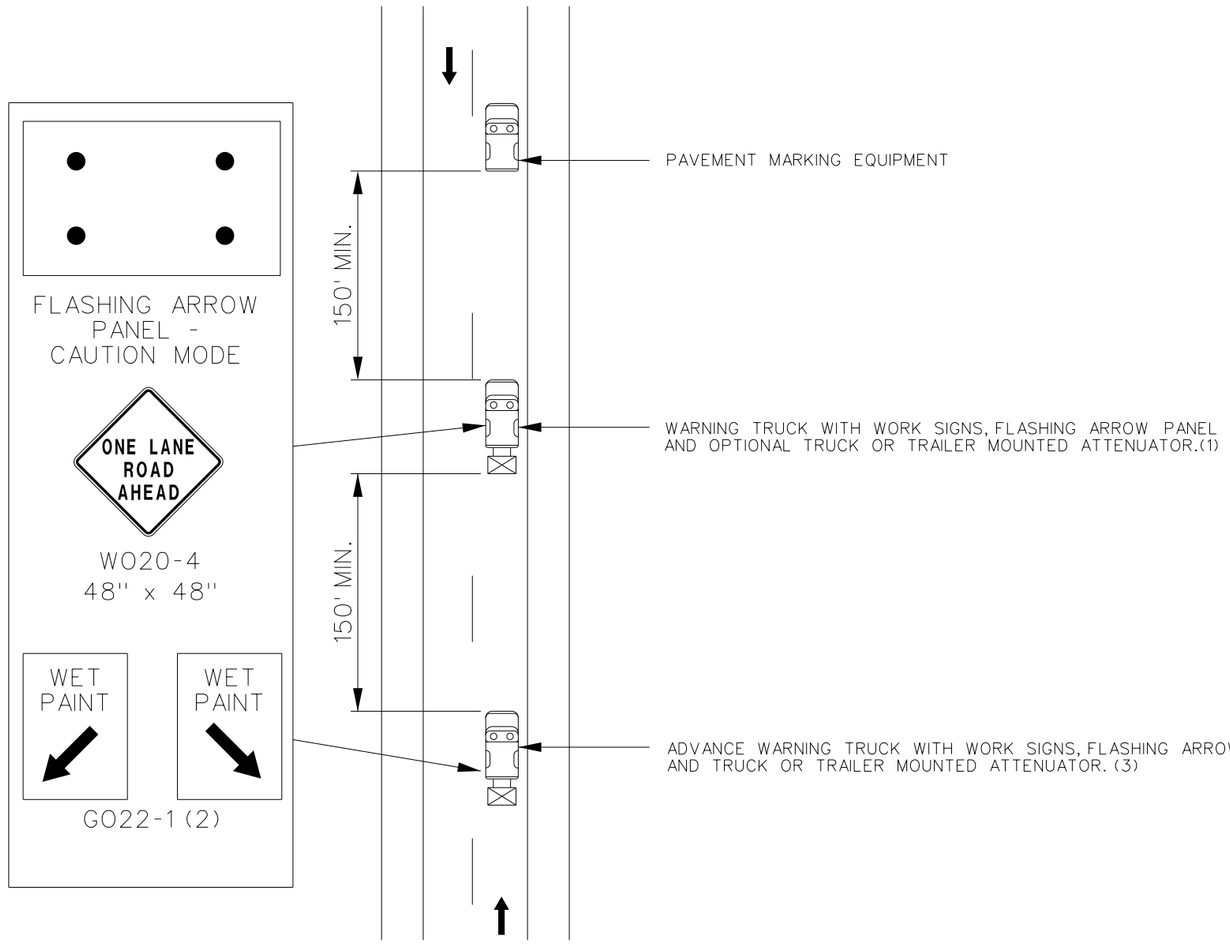
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SIDE ROAD ENTERING WORK ZONE
ROUTE D
TRAFFIC CONTROL SHEET 5 OF 20

CENTER LINE / EDGE LINE STRIPING ON TWO-LANE HIGHWAYS



TWO-LANE UNDIVIDED HIGHWAY

NOTES:

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

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

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

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

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

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

NOT TO SCALE

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
ST. LOUIS

JOB NO.
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CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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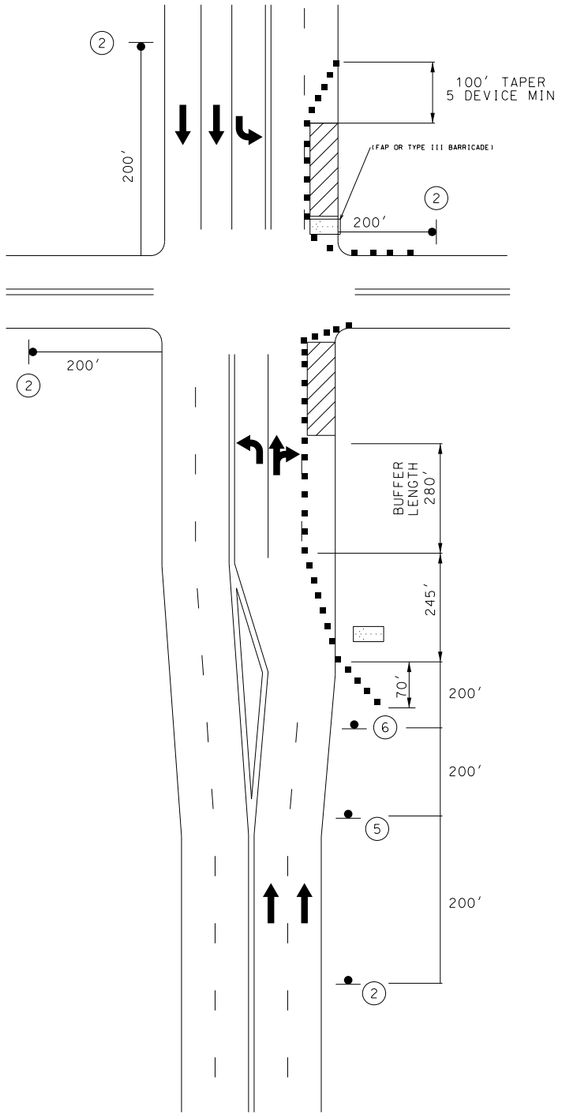
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CENTERLINE / EDGE LINE STRIPING ON TWO-LANE HIGHWAY

ROUTE D

TRAFFIC CONTROL
6 OF 20

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RIGHT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE



BRIDGE
OR
RAMP

W020-1
2



CENTER
OR
LEFT

W020-5
5



CENTER
OR
LEFT

W020-6a
6

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR HTE FULL SIGN SERIES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

NOT TO SCALE

RIGHT LANE CLOSURE
AT INTERSECTION WITH
WORK ON NEAR
OR FAR SIDE

ROUTE D

TRAFFIC CONTROL
7 OF 20

STATE OF MISSOURI
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PROFESSIONAL ENGINEER

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MO PE-2023025373

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	66

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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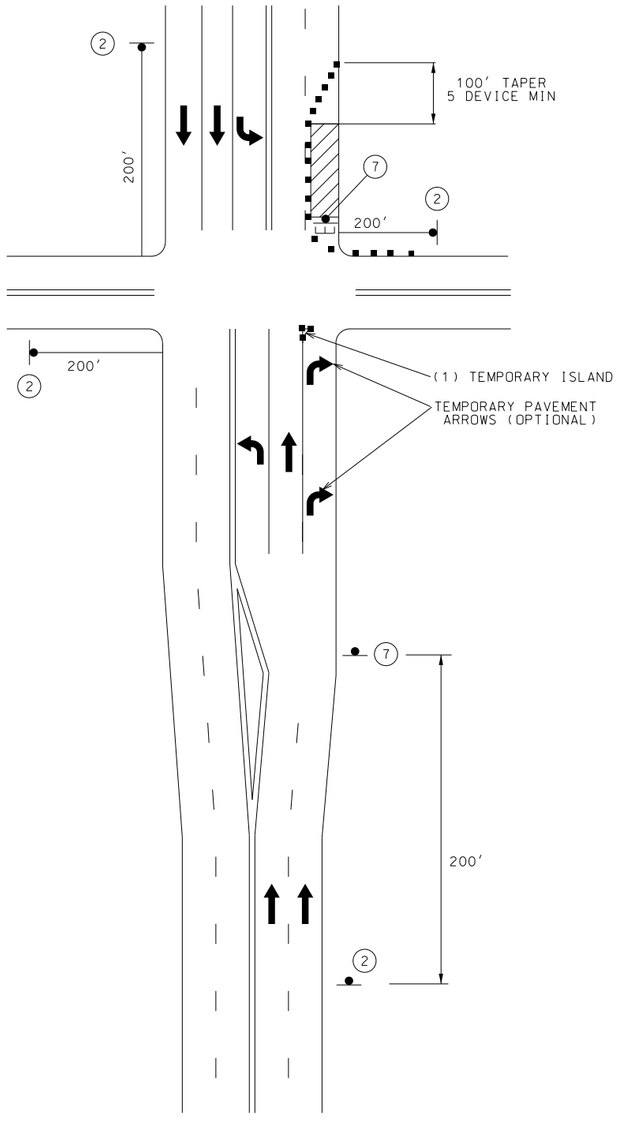
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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RIGHT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE



W020-1

2



R3-7R

10

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TYPE 3 MOVEABLE BARRICADE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

(1) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

NOT TO SCALE

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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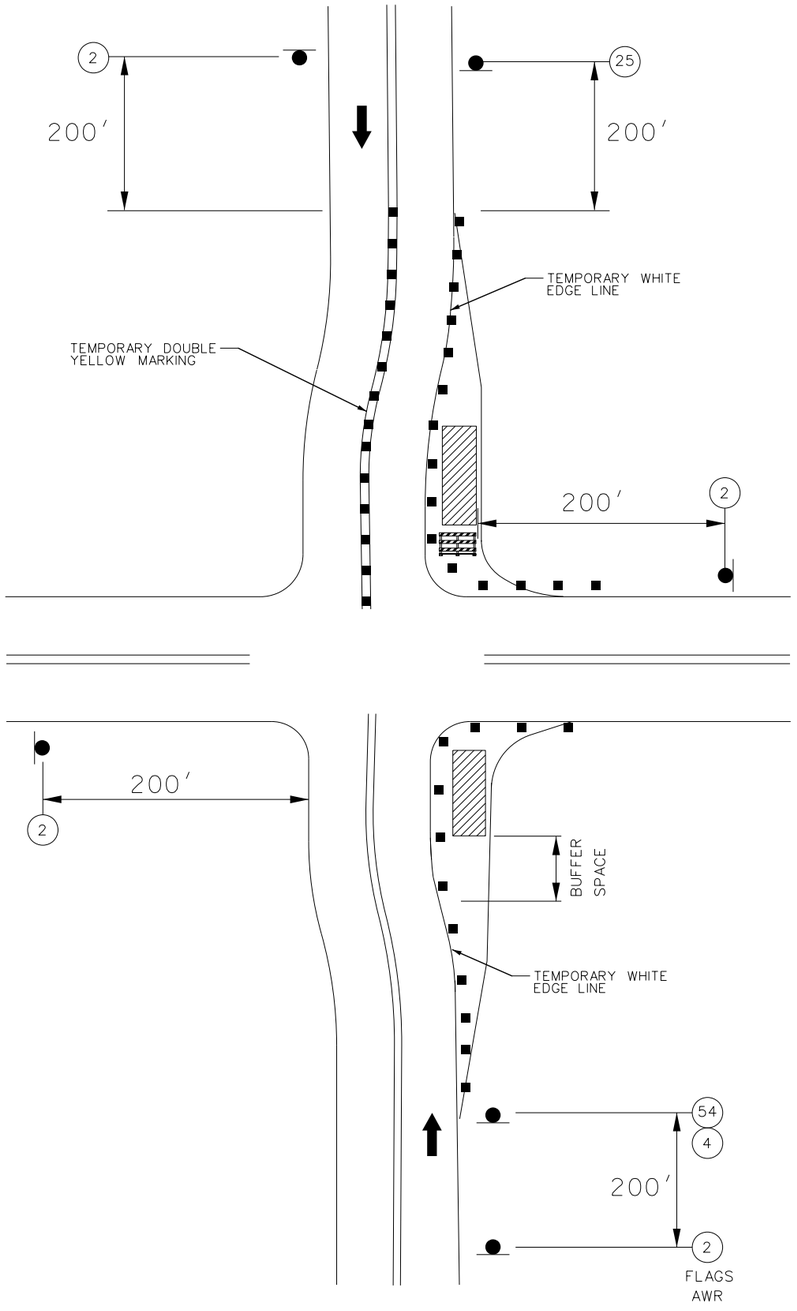
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RIGHT LANE CLOSURE
AT INTERSECTION
WITH WORK ON FAR SIDE

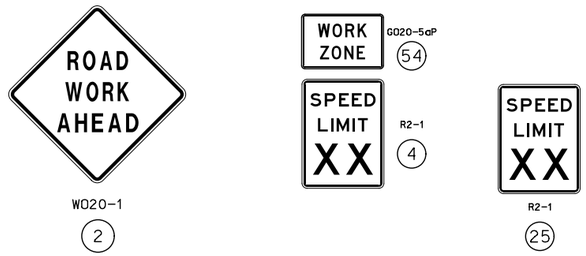
ROUTE D

TRAFFIC CONTROL
8 OF 20



THROUGH LANE AT INTERSECTION

NOT TO SCALE



NOTES:

REMOVE AND/OR MODIFY EXISTING OR CONFLICTING PAVEMENT MARKINGS AS NEEDED.

TEMPORARY PAVEMENT MARKINGS REQUIRED WITH LONG TERM CLOSURES.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE- HALF MARKING.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TYPE 3 BARRICADES

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

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NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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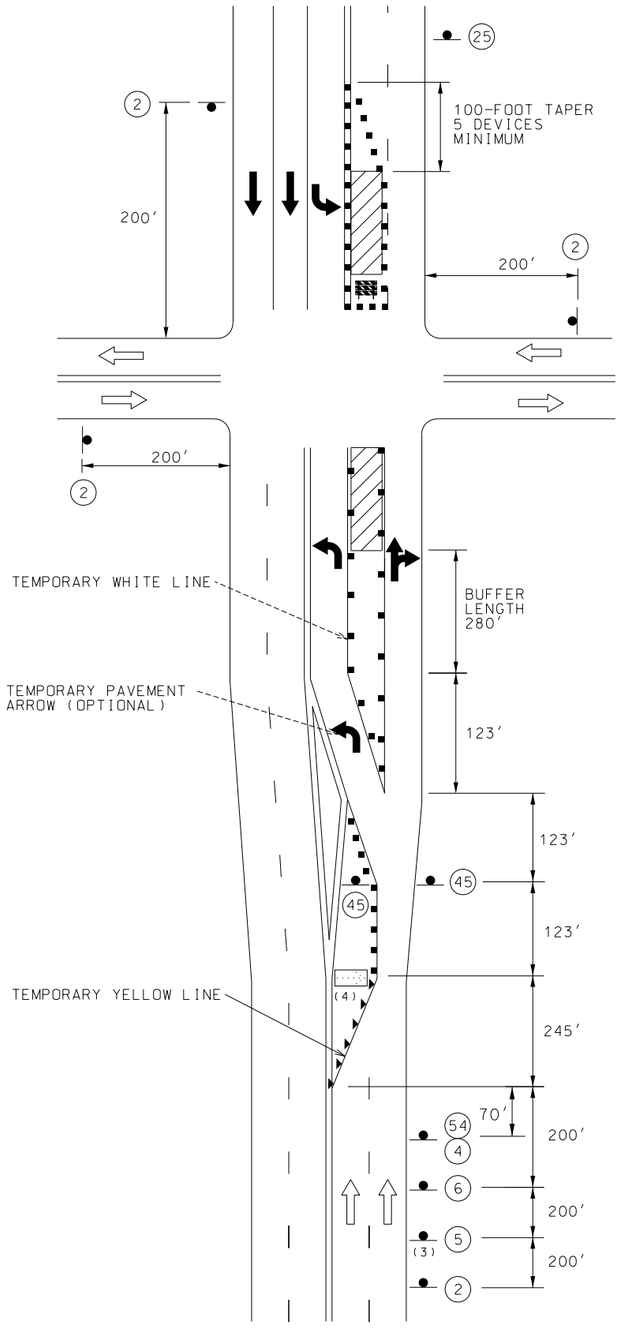
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DESCRIPTION	DATE
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THROUGH LANE AT INTERSECTION
ROUTE D
TRAFFIC CONTROL
9 OF 20



LEFT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE

NOT TO SCALE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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



W020-5
5



W020-6a
6



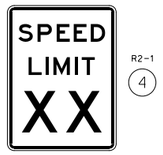
R2-1
(NORMAL SPEED)
25



R3-7L
45



G020-5aP
54



R2-1
4



W020-1
2

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING,TIMING, INDICATIONS OR DETECTOR SETTINGS.

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TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

(1) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(2) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- WORK AREA
- FLASHING ARROW PANEL
- TYPE 3 BARRICADE

LEFT LANE CLOSURE
AT INTERSECTION WITH
WORK ON NEAR
OR FAR SIDE

ROUTE D

TRAFFIC CONTROL
10 OF 20

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	69

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

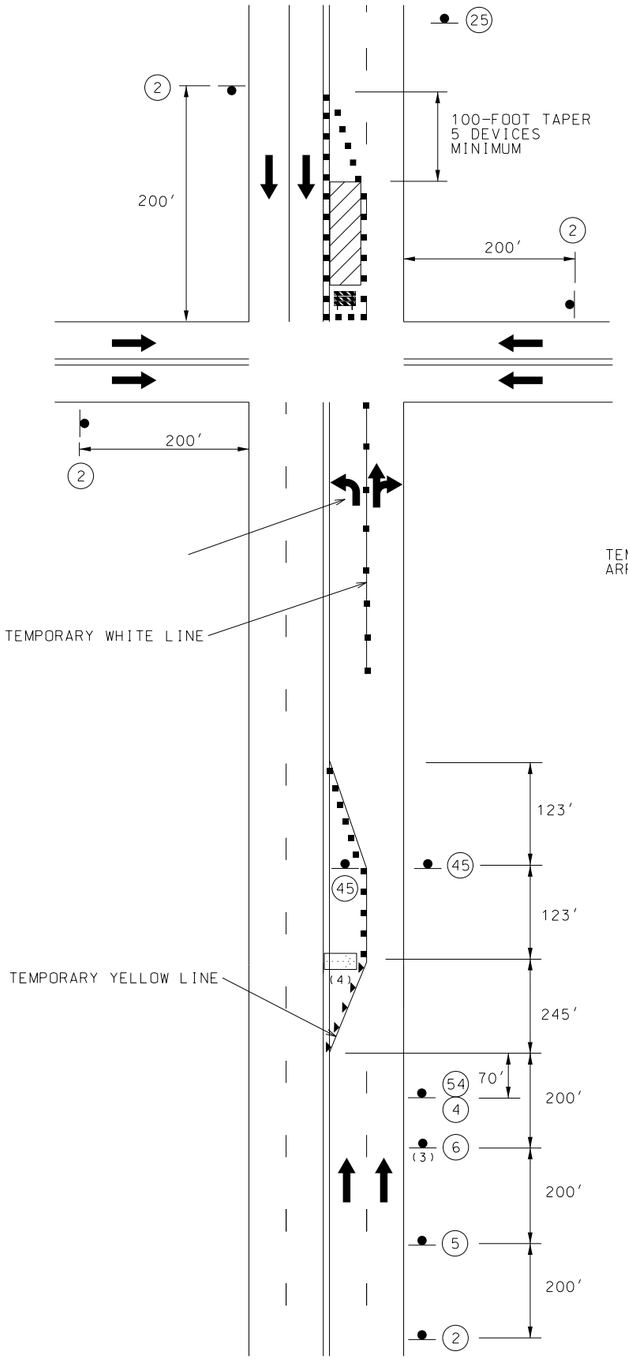
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LEFT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE

NOT TO SCALE

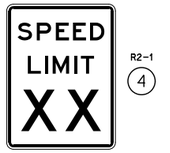
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- WORK AREA
- FLASHING ARROW PANEL
- TYPE 3 BARRICADE

TEMPORARY PAVEMENT ARROW (OPTIONAL)



G020-5aP
54



R2-1
4



W020-1
2



W020-5
5



W020-6a
6



R2-1
(NORMAL SPEED)
25



R3-7L
45

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

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SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	7.0

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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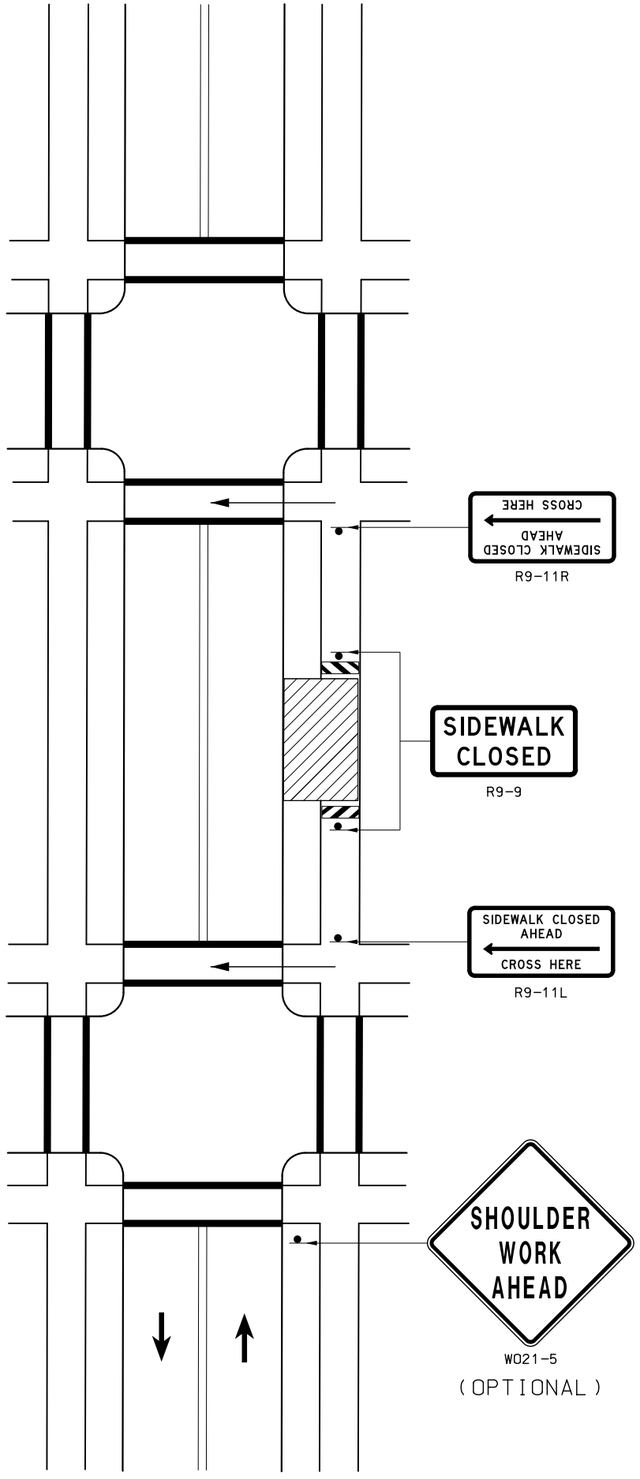
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LEFT LANE CLOSURE
AT INTERSECTION WITH
WORK ON FAR SIDE

ROUTE D

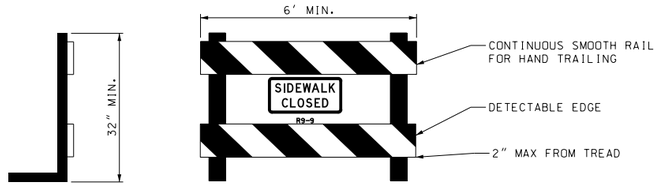
TRAFFIC CONTROL
11 OF 20



NOT TO SCALE

SIDEWALK DETOUR

ADA COMPLIANT MOVEABLE BARRICADE



(1) WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.

(2) CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" RAILS REQUIRED.

(3) NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WUTHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.

(4) THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- ADA COMPLIANT MOVEABLE BARRICADE
- DIRECTION OF PEDESTRIAN DETOUR
- DIRECTION OF TRAFFIC

GENERAL NOTES:

1. 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.
2. SIGN SHALL BE PLACED AT NEAREST CROSSWALK STATING SIDEWALK CLOSED.
3. ALL BUSINESSES SHALL REMAIN ACCESSIBLE BY ANOTHER ENTRANCE.
4. ALL SIGNS MAY BE RELOCATED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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D	MO
DISTRICT	SHEET NO.
SL	71

COUNTY
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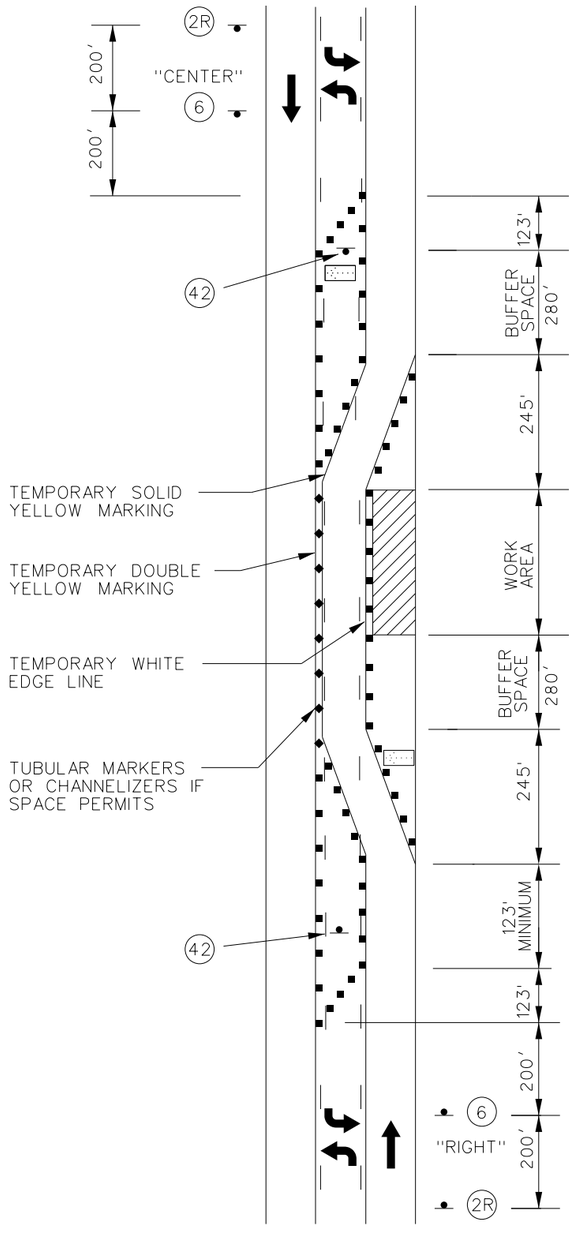
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SIDEWALK DETOUR
ROUTE D
TRAFFIC CONTROL
12 OF 20



LANE CLOSURE
USING CENTER TURN LANE
LANE SHIFT

NOT TO SCALE



W020-1
(2)



W020-6a
(6)



W020-6a
(6)



R4-7a
(42)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- CHANNELIZER (TRIM-LINE)
- CHANGEABLE MESSAGE SIGN
- FLASHING ARROW PANEL
- WORK AREA
- TMA (TRUCK MOUNTED ATTENUATOR)

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE- HALF OF THE SPACING.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
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40-45	350	-	150	540	400	40	80
50-55	500	-	185	660	560	50	80
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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BRIDGE NO.
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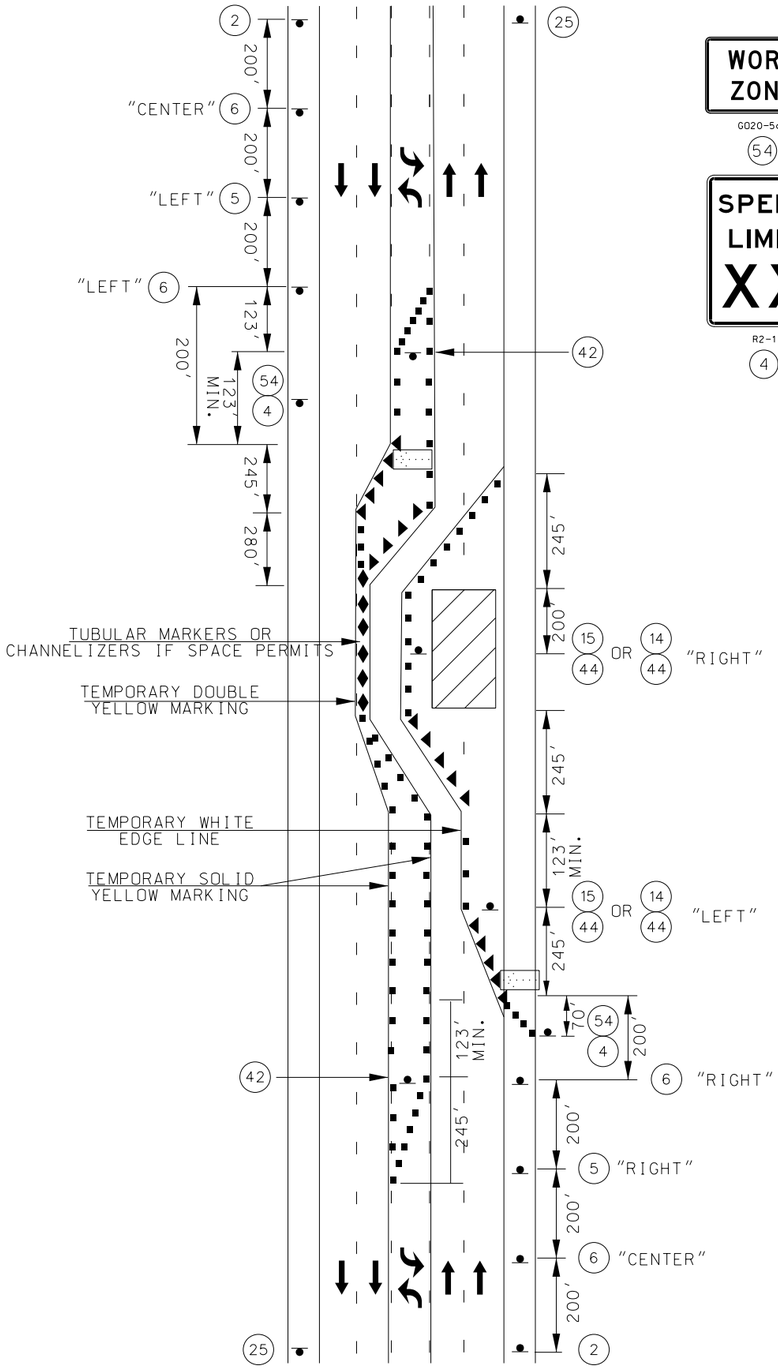
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LANE CLOSURE USING
CENTER TURN LANE
LAND SHIFT

ROUTE D

TRAFFIC CONTROL
13 OF 20



TWO-LANE CLOSURE ON A
5-LANE UNDIVIDED HIGHWAYS

NOT TO SCALE



G020-5aP
54



R2-1
4



R4-7a
42



R2-1
25

NORMAL SPEED



W020-1
2



W020-5
5



W020-6a
6



W01-4R
15



W013-1
44



W01-3R
14



W013-1
44



W01-4L
15



W013-1
44



W01-3L
14



W013-1
44

NOTES:

PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICAL.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT, A 10-FEET DEVICE SPACING IS USED IN THE SHIFTING TAPERS AND WHERE TRAFFIC IS GUIDED ACROSS OTHER CONFLICTING PAVEMENT MARKING, ALL OTHER SPACINGS ARE ONE-HALF OF THE SPACING

(1) ADVISORY SPEED (XX MPH) PLAQUE IS ONLY REQUIRED WHERE FULL LENGTH SHIFTING TAPERS CANNOT BE PROVIDED.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	-	70	245	280	35	40
40-45	350	-	150	540	400	40	80
50-55	500	-	185	660	560	50	80
60-70	1000	-	235	840	840	60	120

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- TUBULAR MARKER
- DIRECTIONAL INDICATOR BARRICADE
- WORK AREA
- FLASHING ARROW PANEL

OPERATION IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAYS

ROUTE D

TRAFFIC CONTROL
14 OF 20

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	73

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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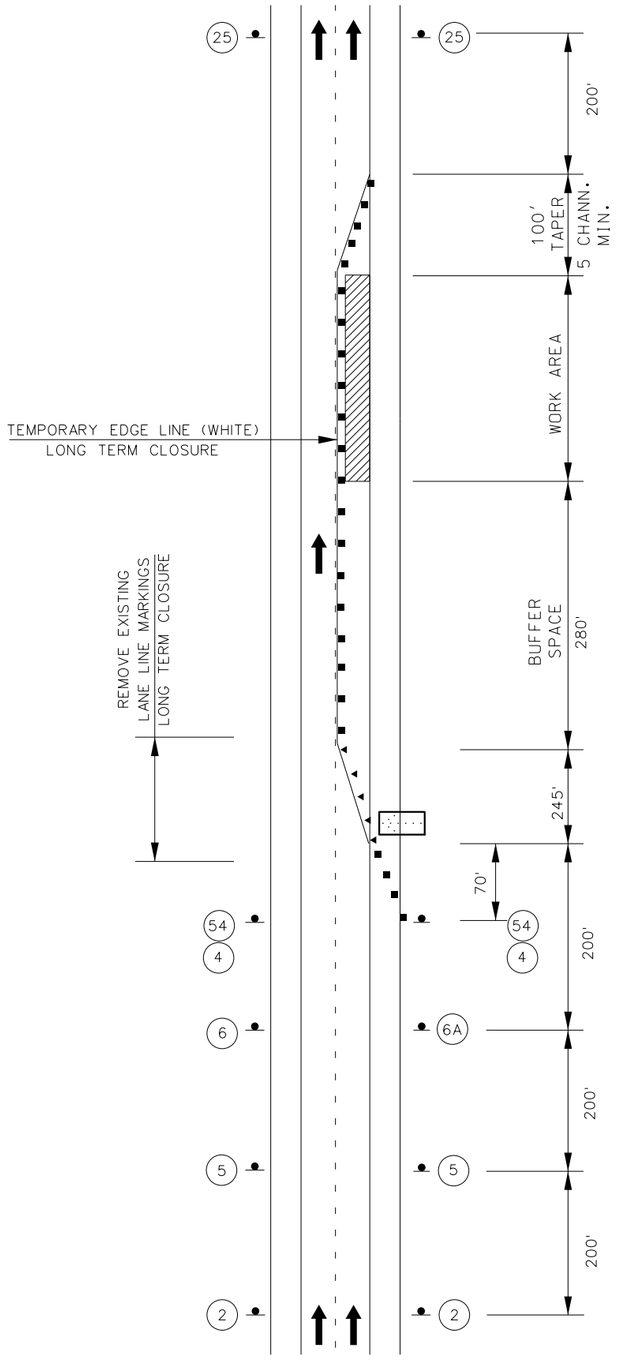
PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY

NOT TO SCALE





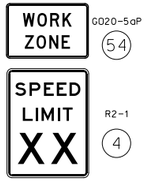














TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

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

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE,THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

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

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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

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7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	74

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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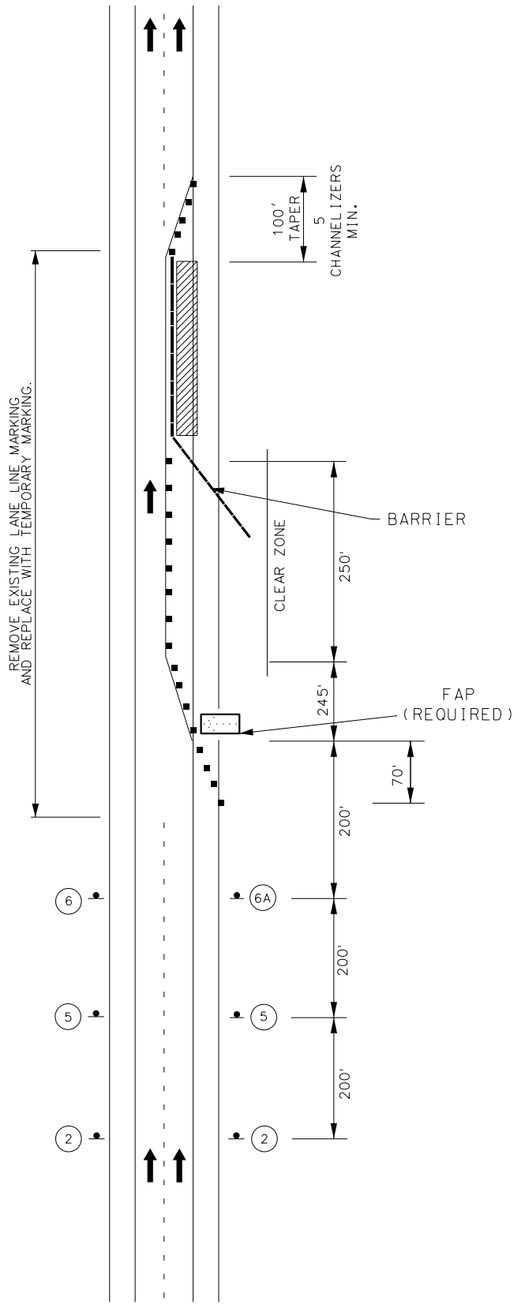
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STATIONARY LANE CLOSURE
ROUTE D
TRAFFIC CONTROL
15 OF 20

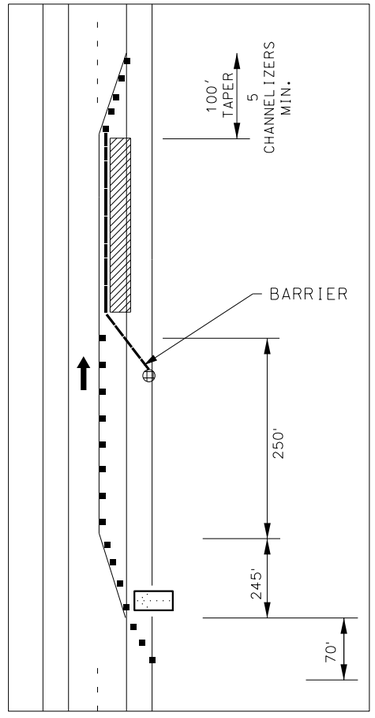
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SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	250	35	40
40-45	-	500	150	540	360	40	80
50-55	-	1000	185	660	495	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	730	60	120

1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
2. LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.



LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER



TYPE OF ROADWAY	SIGN HEIGHT MINIMUM	MAXIMUM WORK ZONE LENGTH (L)
URBAN	7' POST	1 MI.
RURAL DIVIDED	7' POST	2 MI.
VEHICLE	48 INCHES RECOMMENDED	-

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK SPACE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR (TMA)
- TRAFFIC BARRIER
- CRASH CUSHION

NOTES:

ALWAYS USE CHANNELIZERS TO CREATE A BUFFER AREA WHEN USING TEMPORARY TRAFFIC BARRIER.

TEMPORARY TRAFFIC BARRIER: TEMPORARY TRAFFIC BARRIERS MAY BE NEEDED ON PROJECTS BASED ON PAVEMENT EDGE TREATMENTS, BRIDGE REHABILITATIONS/REPLACEMENTS, ETC.

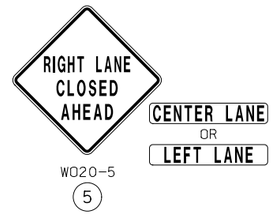
1. A FLARE RATE OF 8:1 FOR THE FLARED CONCRETE BARRIER IS USED FROM THE EDGE OF TRAVELWAY TO THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.

2. CONCRETE BARRIER WITHIN THE CLEAR ZONE WILL USE AN APPROVED CRASH CUSHION WHEN THE NORMAL POSTED SPEED LIMIT IS GREATER THAN 35 MPH.

3. CONCRETE BARRIER WITHIN THE CLEAR ZONE CAN USE EITHER A BARRIER HEIGHT TRANSITION OR AN APPROVED CRASH CUSHION WHEN THE NORMAL POSTED SPEED LIMIT IS LESS THAN OR EQUAL TO 35 MPH.

4. REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED. TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.









LAND CLOSURE WITH TEMPORARY TRAFFIC BARRIER

ROUTE D

TRAFFIC CONTROL
16 OF 20

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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NOTES:

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

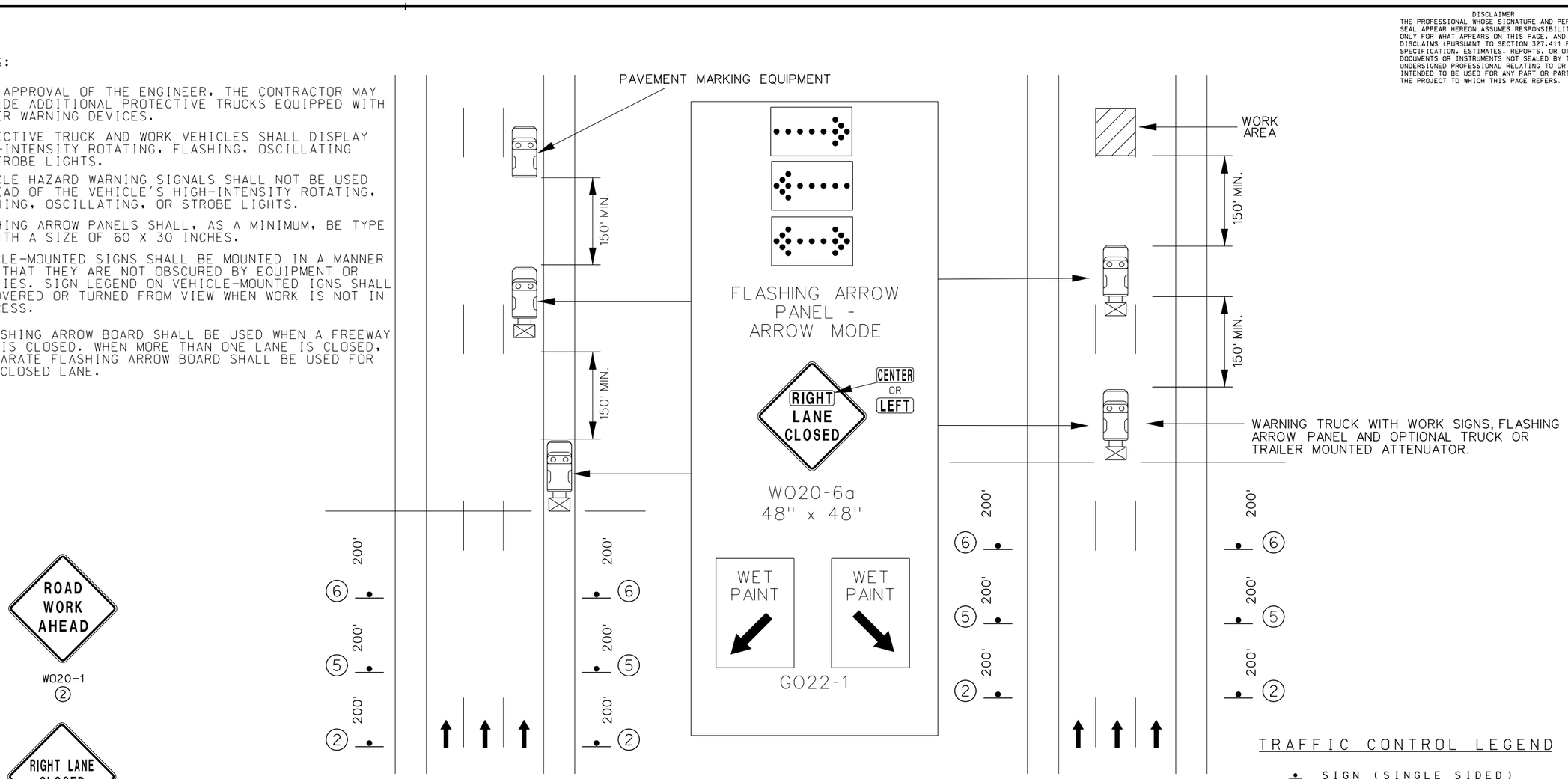
PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.

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

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

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN 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.



W020-1
②



W020-5
⑤



W020-6a
⑥

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.

TRAFFIC CONTROL LEGEND

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

MOBILE OPERATION ON DIVIDED OR MULTI-LANE HIGHWAYS

ROUTE D

TRAFFIC CONTROL
17 OF 20

NOT TO SCALE

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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	76

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

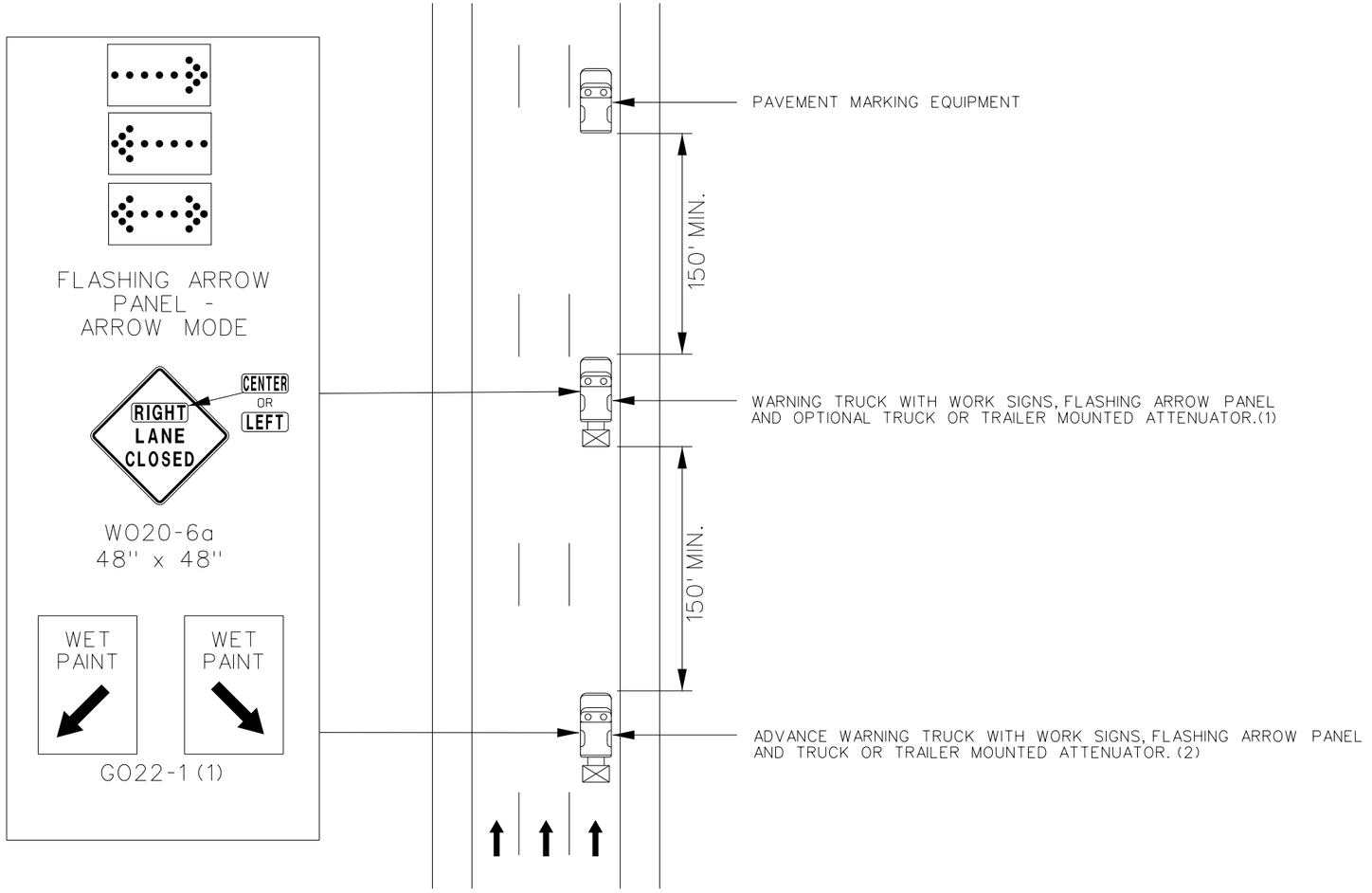
BRIDGE NO.

DESCRIPTION	DATE

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CENTER LINE AND OR LANE LINE STRIPING ON MULTI-LANE DIVIDED HIGHWAYS



MULTI-LANE DIVIDED HIGHWAY

NOTES:

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

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

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

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

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

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 SIGNS 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 LANE.

NOT TO SCALE

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PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	77

COUNTY ST. LOUIS

JOB NO. J6S3215B

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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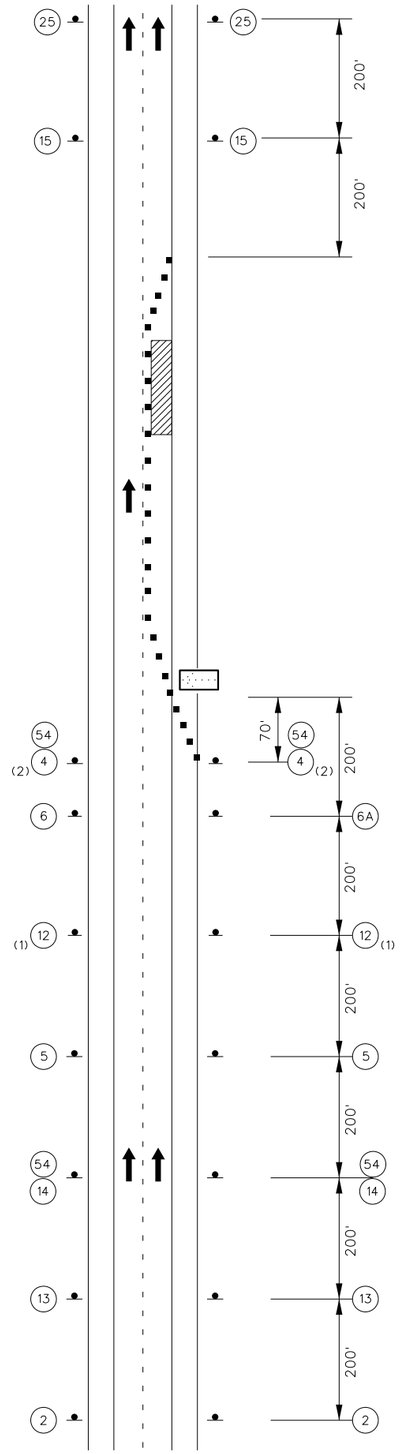
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CENTER LINE / LANE LINE STRIPING ON MULTI-LANE UNDIVIDED HIGHWAYS

ROUTE D

TRAFFIC CONTROL
18 OF 20



NOT TO SCALE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	THIS TYPICAL APPLICATION PROVIDES GUIDELINES FOR THE SEQUENCING AND LOCATION OF THE WORK ZONE SPEED LIMIT SIGNS. REVIEW APPROPRIATE TYPICAL APPLICATIONS FOR SIGNS, SIGN SPACING, TAPER LENGTH, BUFFER LENGTH, CHANNELIZER SPACING, TMA'S, CHANNELIZERS, FLAGS, RUMBLE STRIPS, LIGHTS, AWRS, ETC.				
40-45	350	500					
50-55	500	1000					
60-70	1000	SA-1000 SB-1500 SC-2640					

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK SPACE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR (TMA)

NOTES:

THIS TYPICAL APPPLICATION MAY BE APPROPRIATE FOR SINGLE LOCATION WORK, PER EXAMPLE, BRIDGE WORK, CULVERT REPAIR, LOCALIZED PAVEMENT REPAIR.

THIS TYPICAL APPLICATION MAY BE APPROPRIATE FOR WORK ZONE THAT MAY REQUIRE A DECREASE SPEED THROUGHOUT THE ENTIRE WORK ZONE, PER EXAMPLE, HEAD-TO-HEAD OR MULTILANE APPLICATIONS.

(1) W03-5 (SPEED LIMIT XX AHEAD). THIS SIGN IS USED ONLY WHEN THE APPROVED SPEED REDUCTION FOR AN IMMEDIATE LOCATION IS GREATER THAN 10 MPH BELOW THE EXISTING OR POSTED SPEED LIMIT.

(2) THE SPEED LIMIT SIGN MAY BE MOVED UPSTREAM, IF THE DISTRICT DEEMS THE WORK ZONE REQUIRES ADVANCE SPEED LIMIT NOTIFICATION.

FOR UNDIVIDED ROADWAYS, PROVIDE SIGNS ONLY ON THE RIGHT SIDE OF EACH DIRECTION.

REDUCED SPEED LIMIT SIGNING SHALL BE REMOVED, COVERED, OR TURNED FROM TRAFFIC WHEN CONDITIONS REQUIRING THE REDUCED SPEED NO LONGER EXIST.

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHOULD BE INSTALLED AT THE END OF THE REDUCED AREA PROVIDED NO OTHER REDUCTION IS IMPOSED WITHIN THE NEXT ONE-HALF MILE OR NO EXISTING SPEED LIMIT SIGN IS LOCATED WITHIN THE NEXT ONE-HALF MILE.



W020-1
(2)



W020-5
(5)



W020-6a
(6)



W04-1aL
(6A)



R2-1
(25)
(NORMAL SPEED)



G020-5aP
(54)



R2-1
(4)



W03-5
(12)



CONST-3A
(13)



R4-1
(30)



R4-2
(31)

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	78

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

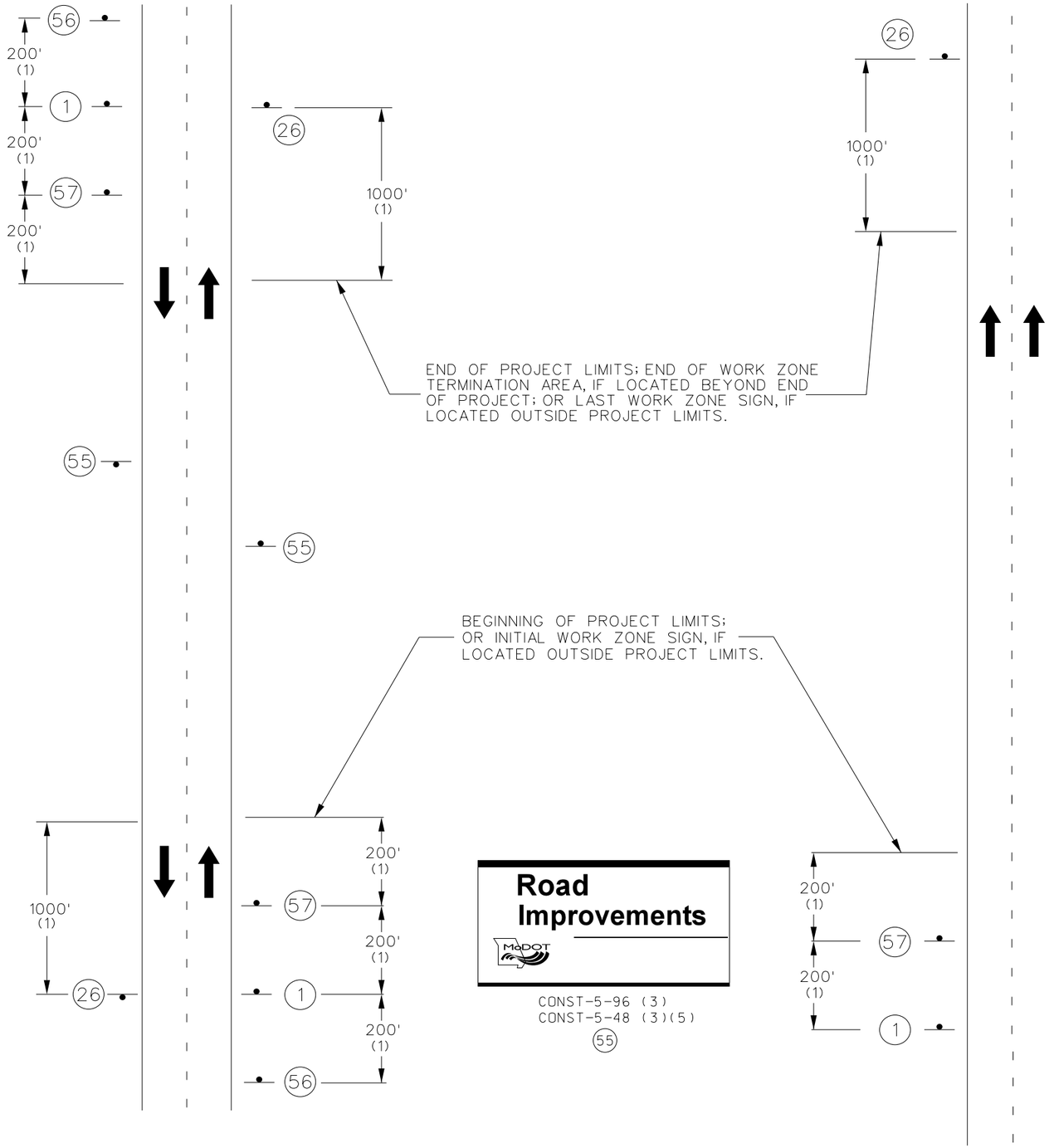
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WORK ZONE
"FINE SIGN AND SPEED LIMIT" LOCATIONS WITHIN THE ADVANCE WARNING AREA

ROUTE D

TRAFFIC CONTROL
19 OF 20



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NOTES:
SIGN GO20-1 IS REQUIRED.

SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.

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

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

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

(2) SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.

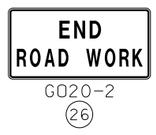
(4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A SIX FOOT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

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

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



GO20-1
1



GO20-2
26



SPECIAL (6)
57

BEGIN/END PROJECT SIGNING
ROUTE D
TRAFFIC CONTROL 20 OF 20

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 79
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

EXIST. R/W

277+00 278+00 279+00 280+00 281+00

℄ RTE D (PAGE AVE)

BEGIN PROJECT
STA 278+90.00

+50.10 +88.81 +18.90

141 LF OF SILT FENCE

39 LF OF SILT FENCE

+13.90 +35.04

MATCHLINE STA. 281+25

VERL PLACE

IONA AVENUE

STORM SAN SIGN

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- (C) CURB INLET CHECK
- SILT FENCE

ROUTE D
EROSION CONTROL
SHEET 1 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	80

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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SCALE
0 20 40 60

PENNSYLVANIA AVENUE

EXIST. R/W

MATCHLINE STA. 281+25

MATCHLINE STA. 102+00

℄ RTE D
(PAGE AVE)

50 LF OF SILT FENCE

87 LF OF SILT FENCE

141 LF OF SILT FENCE

53 LF OF SILT FENCE

41 LF OF SILT FENCE

+57.12
+88.14
+59.74
+02.30
+33.02
+86.49
+51.25
+83.05
+52.57
+99.59
+02.81

CURB INLET CHECK +66.45
CURB INLET CHECK +27.21
CURB INLET CHECK +91.27
CURB INLET CHECK +86.42
CURB INLET CHECK +99.34
CURB INLET CHECK +24.39
CURB INLET CHECK +45.81
CURB INLET CHECK +93.10
CURB INLET CHECK +99.06
CURB INLET CHECK +4.40
CURB INLET CHECK +60.48
CURB INLET CHECK +00.45

282+00
283+00
100+00
101+00

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- (C) CURB INLET CHECK
- SILT FENCE

ROUTE D
EROSION CONTROL
SHEET 2 OF 16

STATE OF MISSOURI
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NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	81

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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SCALE
0 20 40 60

MILFORD AVENUE
COLBY AVENUE
EXIST. R/W
℄

CURB INLET CHECK +75.52
CURB INLET CHECK +55.10
CURB INLET CHECK +31.58
CURB INLET CHECK +12.19
CURB INLET CHECK +84.85
CURB INLET CHECK +74.80
CURB INLET CHECK +48.30
CURB INLET CHECK +57.45
CURB INLET CHECK +30.15
CURB INLET CHECK +38.39
+94.75
+99.58
105 LF OF SILT FENCE
141 LF OF SILT FENCE
T.C.E.
℄ RTE D (PAGE AVE)

MATCHLINE STA. 102+00
MATCHLINE STA. 107+25
103+00
104+00
105+00
106+00
107+00

GRIEFIELD PLACE
GRIEFIELD PLACE

TEMPORARY EROSION CONTROL SHEET LEGEND
- PROPOSED IMPROVEMENTS
- C CURB INLET CHECK
- SILT FENCE

ROUTE D
EROSION CONTROL
SHEET 3 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 82
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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SCALE
0 20 40 60

MATCHLINE STA. 107+25

MATCHLINE STA. 112+65

℄ RTE D (PAGE AVE)

LEROY AVENUE

PURCELL AVENUE

BUCKNER AVENUE

T.C.E.

EXIST. R/W

CURB INLET CHECK +41.79

CURB INLET CHECK +11.95

CURB INLET CHECK +29.50

CURB INLET CHECK +14.49

CURB INLET CHECK +85.70

CURB INLET CHECK +71.51

CURB INLET CHECK +10.84

CURB INLET CHECK +49.72

CURB INLET CHECK +33.69

108+00 109+00 110+00 111+00 112+00

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- (C) CURB INLET CHECK
- SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 4 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	83

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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SCALE
0 20 40 60

FERGUSON AVENUE

EXIST. R/W

MATCHLINE STA. 112+65

MATCHLINE STA. 118+00

113+00

114+00

115+00

116+00

117+00

℄ RTE D (PAGE AVE)

CURB INLET CHECK
+19.55

EXIST. R/W

T.C.E.

FERGUSON AVENUE

TEMPORARY EROSION CONTROL SHEET LEGEND

PROPOSED IMPROVEMENTS

C CURB INLET CHECK

SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 5 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	84

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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25MSD-00107 ; BASEMAPS 16J, 17J, 17H

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SCALE
0 20 40 60

BELRUE AVENUE

EXIST. R/W

MATCHLINE STA. 118+00

MATCHLINE STA. 123+25

CURB INLET CHECK
+46.46

CURB INLET CHECK
+16.21

+16.92

CURB INLET CHECK
+25.31

CURB INLET CHECK
+32.86

116 LF OF
SILT FENCE

+30.57

CURB INLET CHECK
+36.52

119+00

120+00

121+00

122+00

123+00

℄ RTE D (PAGE AVE)

EXIST. R/W

T.C.E.

+58.24

220 LF OF
SILT FENCE

+78.62

TEMPORARY EROSION CONTROL SHEET LEGEND

PROPOSED IMPROVEMENTS

CURB INLET CHECK

SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 6 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- C — CURB INLET CHECK
- SILT FENCE

SCALE
0 20 40 60

WOODRUFF AVENUE

EXIST. R/W

+16.09

CURB INLET CHECK
+14.57

72 LF OF
SILT FENCE

+47.94

+42.10

CURB INLET CHECK
+45.64

121 LF OF
SILT FENCE

+62.34

MATCHLINE STA. 123+25

CURB INLET CHECK
+87.60

CURB INLET CHECK
+65.31

CURB INLET CHECK
+66.62

124+00

125+00

126+00

127+00

128+00

CURB INLET CHECK
+00.43

MATCHLINE STA. 128+50

℄ RTE D (PAGE AVE)

CURB INLET CHECK
+58.97

CURB INLET CHECK
+28.91

+84.08

+62.98

79 LF OF
SILT FENCE

+17.18

KINGSLAND AVENUE

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	86

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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NO.	DESCRIPTION	DATE
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ROUTE D
EROSION CONTROL
SHEET 7 OF 16

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SCALE
0 20 40 60

KINGSLAND AVENUE

GREGAN PLACE

GRUNER PLACE

MATCHLINE STA. 128+50

MATCHLINE STA. 133+75

℄ RTE D
(PAGE AVE)

129+00

130+00

131+00

133+00

EXIST. R/W

CURB INLET CHECK
+41.96

CURB INLET CHECK
+94.49

124 LF OF
SILT FENCE

+41.63

+67.56

129 LF OF
SILT FENCE

+94.96

+05.75

127 LF OF
SILT FENCE

+25.60

+50.39

99 LF OF
SILT FENCE

+50.63

SIGN

SAN

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- C — CURB INLET CHECK
- SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 8 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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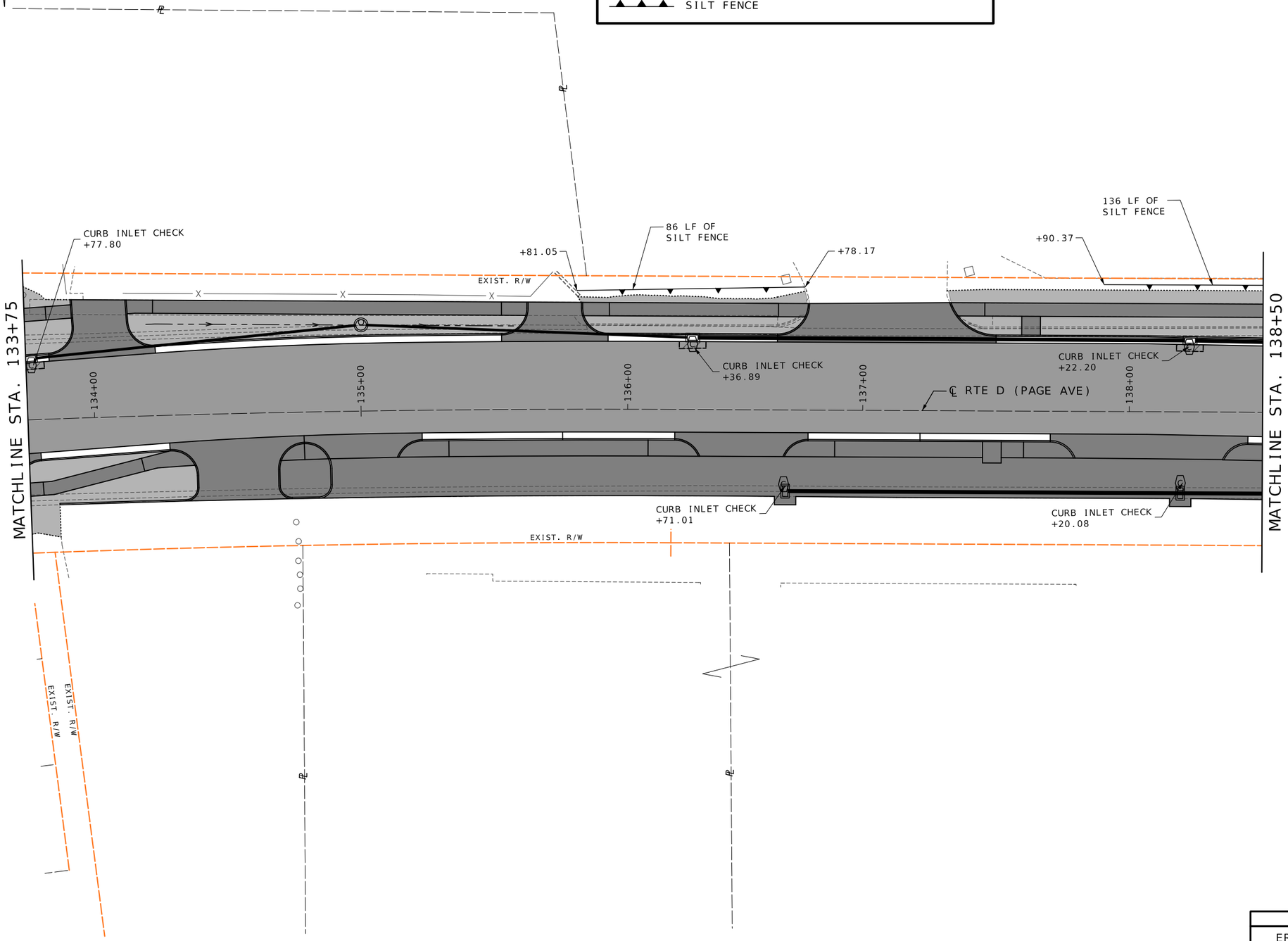
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TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- C — CURB INLET CHECK
- SILT FENCE

SCALE
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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	88

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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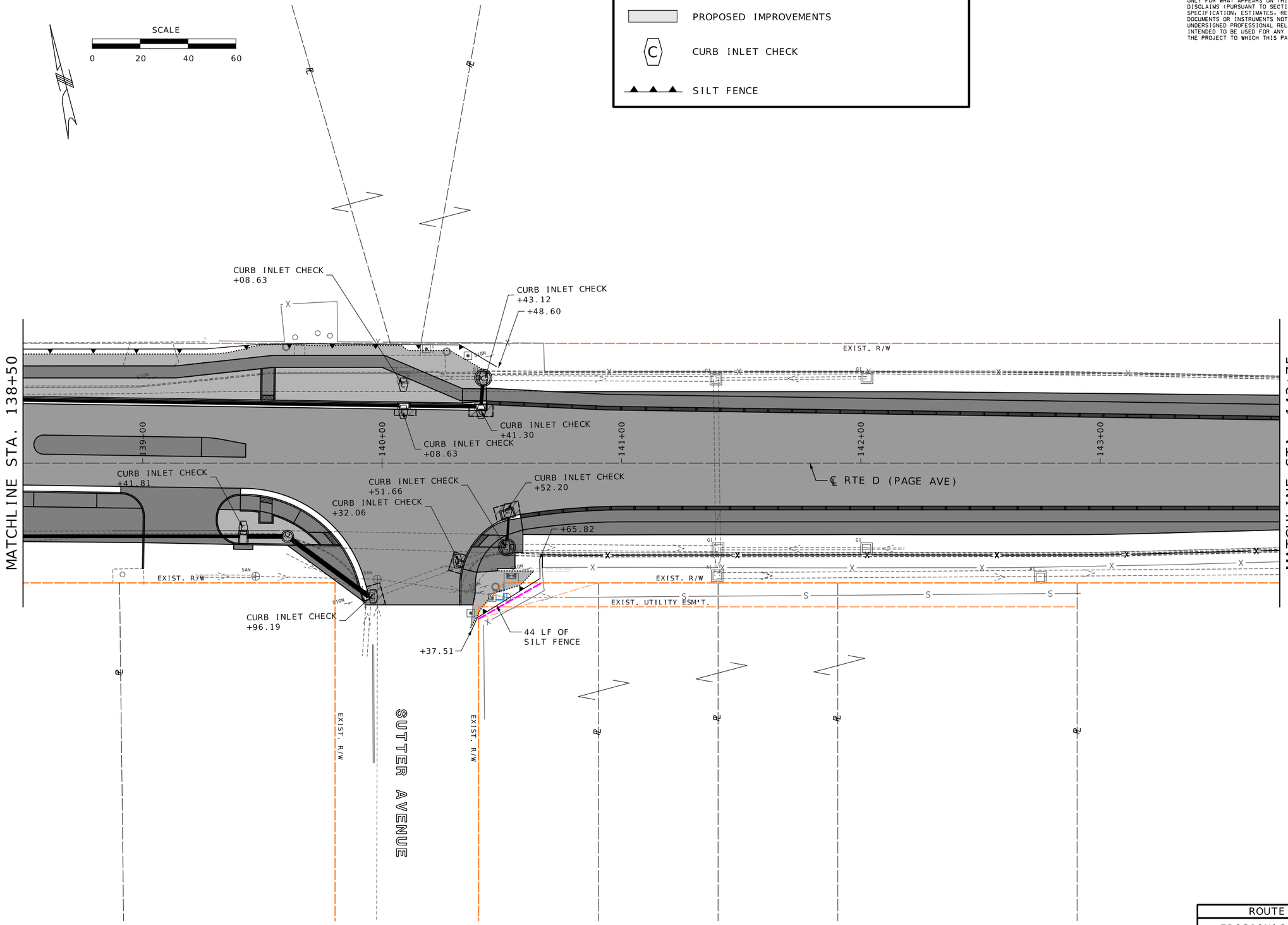
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ROUTE D
EROSION CONTROL
SHEET 9 OF 16

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- C — CURB INLET CHECK
- SILT FENCE

SCALE
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7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	89

COUNTY
ST. LOUIS

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

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ENGINEERING CORPORATION - 000631

ROUTE D

EROSION CONTROL
SHEET 10 OF 16

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SCALE
0 20 40 60

RAILROAD RIGHT-OF-WAY

EXIST. R/W

MATCHLINE STA. 143+75

144+00 145+00 146+00 147+00 148+00

℄ RTE D
(PAGE AVE)

MATCHLINE STA. 149+00

EXIST. R/W

RAILROAD RIGHT-OF-WAY

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- (C) CURB INLET CHECK
- SILT FENCE

ROUTE D
EROSION CONTROL
SHEET 11 OF 16

25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\080-095_EC Sheets_J6S3215B.dgn 7/3/2025

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	90

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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SCALE
0 20 40 60

MATCHLINE STA. 149+00

MATCHLINE STA. 154+25

EXIST. R/W

℄ RTE D (PAGE AVE)

150+00
151+00
152+00
153+00
154+00

CURB INLET CHECK
+66.25

+25.91

16 LF OF
SILT FENCE

+12.18

CURB INLET CHECK
+64.96

CURB INLET CHECK
+63.79

CURB INLET CHECK
+63.28

253 LF OF
SILT FENCE

+21.32

TEMPORARY EROSION CONTROL SHEET LEGEND

PROPOSED IMPROVEMENTS

C CURB INLET CHECK

SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 12 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	91

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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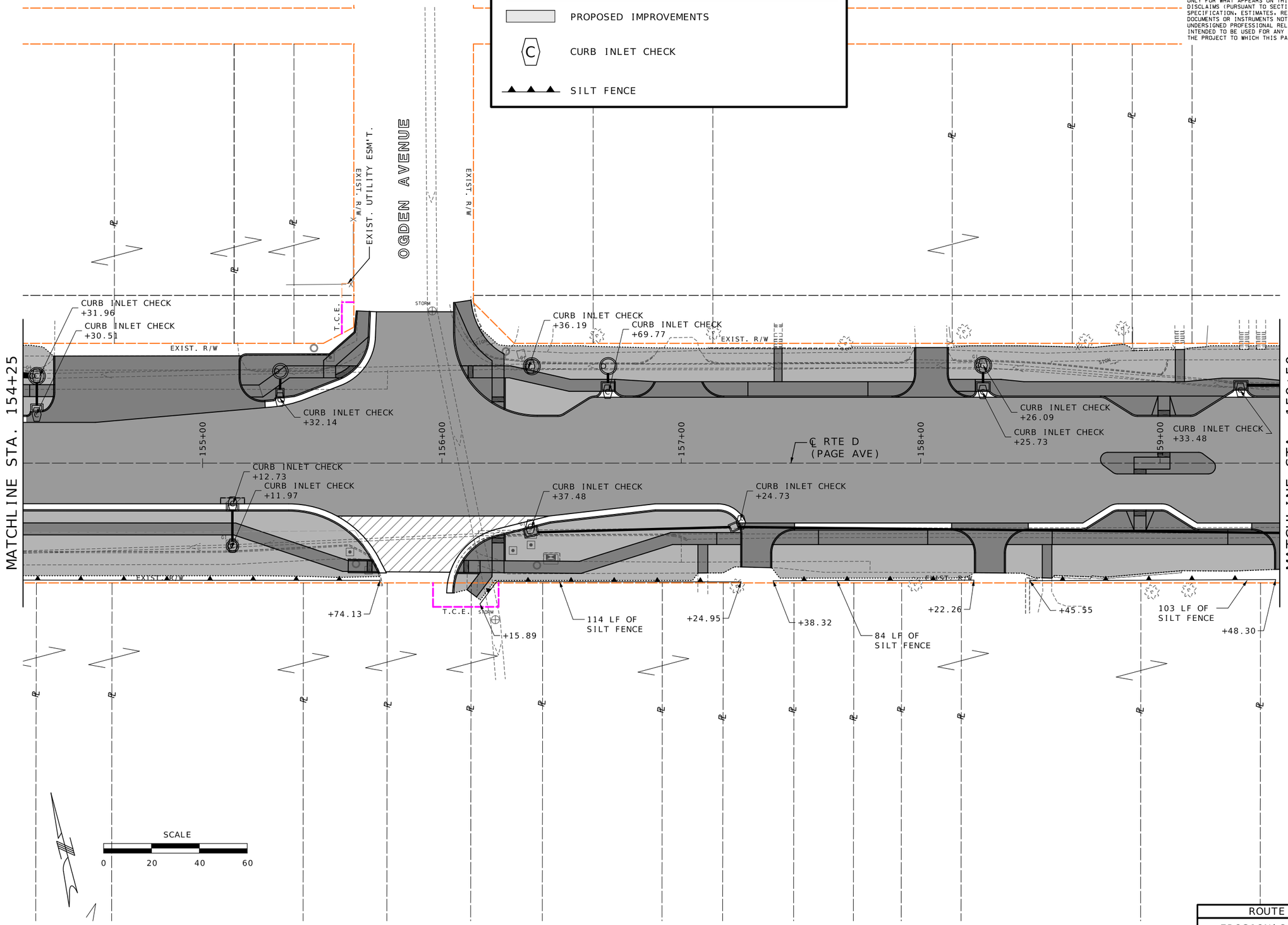
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TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- C — CURB INLET CHECK
- SILT FENCE

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ROUTE D

EROSION CONTROL SHEET 13 OF 16

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	92

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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STEPHEN JONES AVENUE

EXIST. R/W

CURB INLET CHECK
+18.36

CURB INLET CHECK
+04.14

CURB INLET CHECK
+59.34

EXIST. R/W

MATCHLINE STA. 159+50

160+00 161+00 162+00 163+00 164+00

℄ RTE D (PAGE AVE)

MATCHLINE STA. 164+75

CURB INLET CHECK
+85.26

+85.06

+79.95

EXIST. R/W

EXIST. R/W

22 LF OF
SILT FENCE

+06.65

T.C.E.

53 LF OF
SILT FENCE

+60.77

+29.11

68 LF OF
SILT FENCE

+57.85

STEPHEN JONES AVENUE

EXIST. R/W

EXIST. R/W

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- C — CURB INLET CHECK
- SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 14 OF 16

25MSD-00107 ; BASEMAPS 16J, 17J, 17H

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D	MO
DISTRICT	SHEET NO.
SL	93

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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DESCRIPTION	DATE
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SCALE
0 20 40 60

MATCHLINE STA. 164+75

℄ RTE D (PAGE AVE)

165+00

166+00

168+00

169+00

MATCHLINE STA. 170+00

MORTON AVENUE

EXIST. R/W

CURB INLET CHECK +38.75

CURB INLET CHECK +89.60

CURB INLET CHECK +29.40

CURB INLET CHECK +89.60

CURB INLET CHECK +23.73

CURB INLET CHECK +34.56

CURB INLET CHECK +28.56

CURB INLET CHECK +34.15

CURB INLET CHECK +85.94

CURB INLET CHECK +96.37

CURB INLET CHECK +98.66

CURB INLET CHECK +91.66

STORM

SAN

TEMPORARY EROSION CONTROL SHEET LEGEND

- PROPOSED IMPROVEMENTS
- (C) CURB INLET CHECK
- SILT FENCE

ROUTE D

EROSION CONTROL
SHEET 15 OF 16

STATE OF MISSOURI
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Cassandra McKee Lee - Civil
MO PE-2023025373

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D	MO
DISTRICT	SHEET NO.
SL	94

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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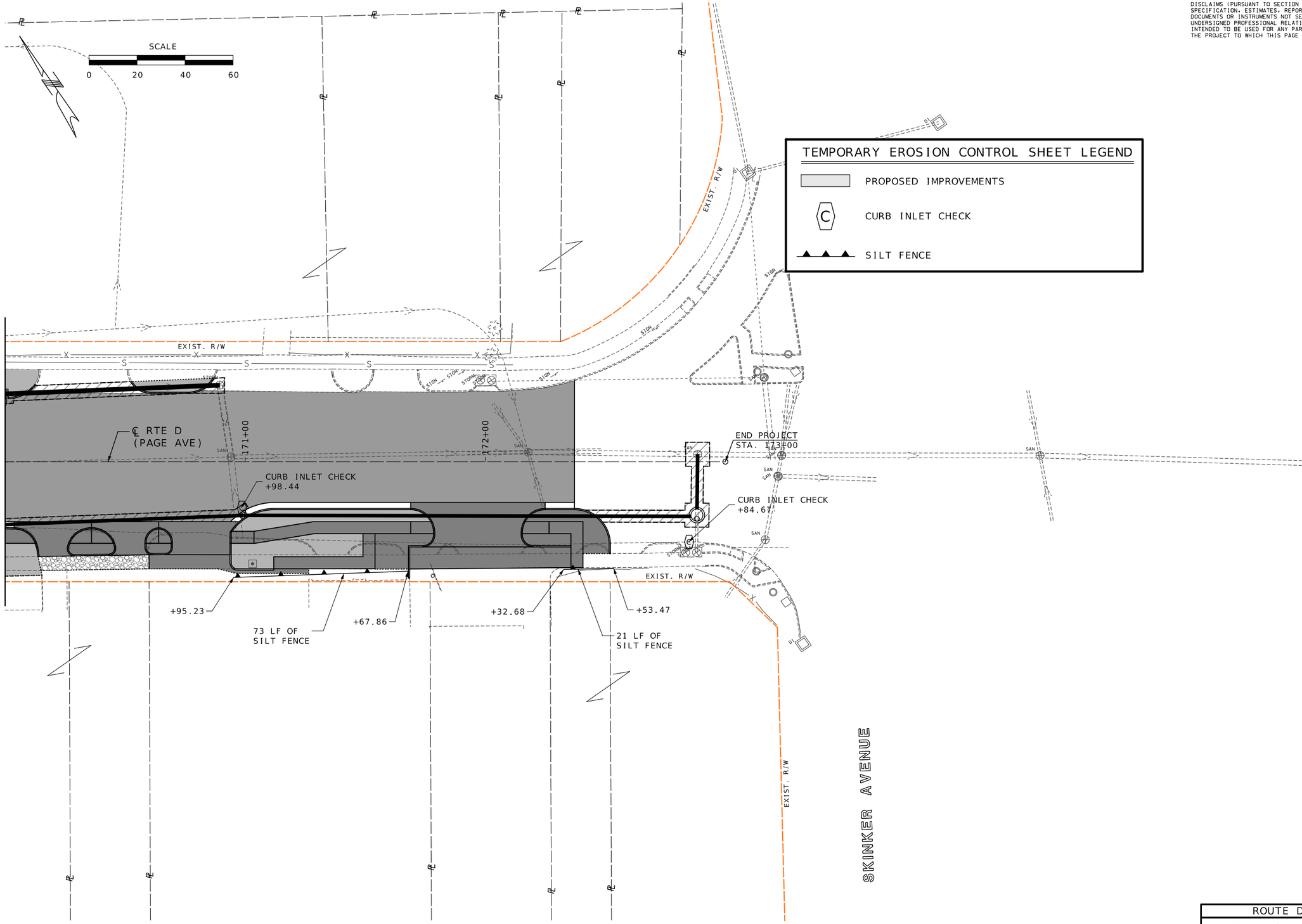
DESCRIPTION	DATE
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PROFESSIONAL ENGINEER
STATE OF MISSOURI

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	95

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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BRIDGE NO.
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DATE	DESCRIPTION
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ROUTE D
EROSION CONTROL
SHEET 16 OF 16

TRAFFIC SIGNALS LEGEND

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

NOTES:

1. ALL PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE HEADS. REFER TO JSP.
2. ALL PUSHBUTTONS SHALL BE APS PUSHBUTTONS. REFER TO JSP.
3. CONNECTION/HOOK UP OF WIRES AND CONFIGURATION OF PEDESTRIAN HEADS AND PUSH BUTTON DETECTORS IN EXISTING CONTROLLERS INCLUDED IN UNIT PRICE FOR SIGNAL WIRE.
4. COORDINATE CURB RAMP & LANDING CONSTRUCTION WITH SIGNAL PLANS. SEE PLAN SHEETS.
5. ALL PUSH BUTTONS REQUIRE SIGN R10-3E (9"X15") TO BE INSTALLED ABOVE THEM. REFER TO JSP.
6. DRILLING EXIST. PULL BOX & CONNECTING CONDUIT IN PULL BOX SHALL BE INCLUDED IN UNIT PRICE FOR CONDUIT.
7. ALL SIGNAL HEADS SHALL HAVE REFLECTIVE BACKPLATES.
8. LEADING PEDESTRIAN INTERVALS SHALL BE PROGRAMMED IN ALL SIGNAL CONTROLLERS WITHIN PROJECT LIMITS.

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	96

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROUTE D

SIGNAL SHEET
1 OF 27

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SCALE
0 10 20 30

PENNSYLVANIA AVE
EXIST. ROW
5' LANE
11' LANE
10.5' LANE
BIKE BOX
SPEED LIMIT = 35 MPH
NEXT SIGNAL 4570' ST. CHARLES ROCK RD
1.3%
COMMERCIAL
8' POST
D3-1 STREET SIGN
Page Ave
40' MAST ARM
EXIST. ROW
EXIST. CCTV CAMERA (R & RELOC.)
R10-11a SIGN
D3-1 STREET SIGN
Pennsylvania Ave
NEXT SIGNAL 4800' N HANLEY RD
0.8%
SPEED LIMIT = 35 MPH
℄ RTE D
R3-5L SIGN
R10-27A SIGN
STA. 5+00.00 PENNSYLVANIA AVE= STA. 283+84.99 RTE D
℄ PENNSYLVANIA AVE
110.71°
105.17°
10.5' LANE
11' LANE
11' LANE
ONLY
R10-27A SIGN
8' POST
40' MAST ARM
D3-1 STREET SIGN
Pennsylvania Ave
MCI (DND)
LUMEN (DND)
EXIST. ROW
R3-5L SIGN
30' MAST ARM
R10-11a SIGN
Page Ave
D3-1 STREET SIGN
COMMERCIAL
EXIST. ROW
PENNSYLVANIA AVE
12' LANE
12' LANE
NEXT SIGNAL 4025' OLIVE BLVD
1.1%
SPEED LIMIT = 35 MPH
EXIST. ROW
COMMERCIAL
R10-27A SIGN
8' POST
LIGHTING PB
EXIST. ROW
5' LANE
11' LANE
12' LANE
℄ RTE D
NEXT SIGNAL 1670' FERGUSON AVE
0.1%
SPEED LIMIT = 35 MPH
5' LANE
8' POST
LIGHTING PB
R3-5R SIGN
40' MAST ARM
D3-1 STREET SIGN
Pennsylvania Ave
EXIST. MODOT ITS (UIP)
MCI (DND)
EXIST. ROW
LUMEN (DND)
8' POST
PROP. 120V SIGNAL POWER SUPPLY WITH UPS
PROP. SIGNAL CONTROLLER
EXIST. POWER SOURCE (UIP)
REMOVE EXIST. POWER SUPPLY ON POLE
EXIST. ITS PULL BOX (UIP)
EXIST. SIGNAL CONTROLLER (R)

Ø1 Ø2 Ø3 Ø4
Ø5 Ø6 Ø7 Ø8

R10-3EL OR R10-3ER
INSTALLED ABOVE PUSH BUTTONS (INCLUDED IN COST FOR AUDIBLE PEDESTRIAN PUSH BUTTON)

R3-5L | R3-5R | R10-27a | R10-11a

ROUTE D / PENNSYLVANIA AVE
ROUTE D
SIGNAL SHEET 2 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
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MO PE-2023025373

DATE PREPARED
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	97

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A 9 | A 9.5 | A 10 | A 10.5 | A 11 | A 12 | F 9 | F 9.5 | F 10 | F 10.5 | F 11 | F 12 | C | CONCRETE** (CU. YARDS) | PULL BOX: PREFORMED CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | II B | II C | 4' PED POST | POST: TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL: ARM LENGTH A | SIGNAL SPACING A | SIGNAL SPACING A | SIGNAL SPACING A | SIGN SPACING B | SIGN SPACING C | SIGN SPACING D | SIGN SPACING D' | TYPE B & BL: ARM LENGTH B | ARM LENGTH C | ARM LENGTH D | ARM LENGTH D' | LEFT ARM E | E | E | E | E | E | SIGNAL SPACING F | SIGNAL SPACING G | SIGNAL SPACING H | SIGNAL SPACING H' | SIGN SPACING F | SIGN SPACING G | SIGN SPACING H | SIGN SPACING H' | RIGHT ARM K | K | K | K | K | K | SIGNAL SPACING L | SIGNAL SPACING M | SIGNAL SPACING N | SIGNAL SPACING N' | SIGN SPACING L | SIGN SPACING M | SIGN SPACING N | SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
⊘	⊘ UPS	17'					(25)										
⊘ UPS	☒	11'			19'												
☒	1	8'			22'												2-3" CONDUITS
1	1	6'			7'												
1	2	30'							33'								
1	3	40'							41'								
1	2	125'							123'								
2	4	50'							53'								
2	5	26'			27'												
2	6	12'			13'												
2	3	99'							97'								
3	7	10'			13'												
3	8	26'			27'												
1	4	69'							67'								
4	9	65'			66'												
4	10	40'			43'												
4	11	17'			18'												
SUBTOTALS					255'		(25)		414								
TOTALS					255		(25)		414								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			CAT-5 CCTV CAMERA CABLE	REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*		
⊘	⊘ UPS	17'		(180)												SOURCE TO SUPPLY
⊘ UPS	☒	12'	84'													3-1C#8 CABLES
☒	1	14'				38'										PEDESTRIAN HEAD 44
☒	1	14'			37'											PUSH BUTTON 43
☒	2	34'					88'									SIGNAL HEAD 62
☒	2	34'					96'									SIGNAL HEAD 61
☒	2	34'					107'									SIGNAL HEAD 11
☒	2	34'												(108)		VIDEO V-1
☒	3	48'				72'										PEDESTRIAN HEAD 63
☒	3	48'			71'											PUSH BUTTON 64
☒	4	173'					206'									SIGNAL HEAD 82
☒	4	173'					230'									SIGNAL HEAD 81
☒	4	173'					240'									SIGNAL HEAD 31
☒	4	173'												(243)		VIDEO V-2
☒	5	159'				189'										PEDESTRIAN HEAD 64
☒	5	159'			188'											PUSH BUTTON 63
☒	6	145'				175'										PEDESTRIAN HEAD 83
☒	6	145'			174'											PUSH BUTTON 84
☒	7	239'				275'										PEDESTRIAN HEAD 84
☒	7	239'			274'											PUSH BUTTON 83
☒	7	239'					301'									SIGNAL HEAD 22
☒	7	239'					313'									SIGNAL HEAD 21
☒	7	239'					323'									SIGNAL HEAD 51
☒	7	239'												(326)		VIDEO V-3
☒	7	239'													299	CCTV CAMERA
☒	8	254'				290'										PEDESTRIAN HEAD 23
☒	8	254'			289'											PUSH BUTTON 24
☒	9	141'				171'										PEDESTRIAN HEAD 24
☒	9	141'			170'											PUSH BUTTON 23
☒	10	117'					150'									SIGNAL HEAD 42
☒	10	117'					181'									SIGNAL HEAD 41
☒	10	117'					193'									SIGNAL HEAD 70
☒	10	117'												(195)		VIDEO V-4
☒	11	94'				124'										PEDESTRIAN HEAD 43
☒	11	94'			123'											PUSH BUTTON 44
SUBTOTALS			84	(180)	1326	1334	2428							(872)	299	
5% FOR SNAKING			88	(189)	1392	1401	2549							(916)	314	
TOTALS			90	(190)	1400	1410	2550							(920)	320	

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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ROUTE D PAGE AVE/PENNSYLVANIA AVE
INTERSECTION

ROUTE D / PENNSYLVANIA AVE
ROUTE D
SIGNAL SHEET 4 OF 27
D-37B

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 99
COUNTY ST. LOUIS
JOB NO. J6S3215B
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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
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ENGINEERING CORPORATION - 000631
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POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
PAGE AVE	100+29.91	36.7'RT		1	15 Amps	- Amps	100 Amps	Amps		Amps	Ci. Ft.	AMEREN
-	-	-	Type	-	Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			170 CABINET TYPE ✳		170 SOFTWARE ✳	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
PAGE AVE	100+18.53	36.3'RT	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2								

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
2	R3-5L	30 X 36	7.5	15.0	2
1	R3-5R	30 X 36	7.5	7.5	1
	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		
2	D3-1	60 X 18	7.5	15.0	2
2	D3-1B	96 X 18	12.0	24.0	2
7	R10-3EL	9 X 15	0.9	6.3*	7*
1	R10-3ER	9 X 15	0.9	0.9*	1*
2	R10-11A	24 X 30	5.0	10.0	2
	R10-13	36 X 24	6.0		
4	R10-27A	30 X 36	7.5	30.0	4
			SUBTOTAL	101.5	13
			TOTAL	102	13

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
43	WB PAGE	1				
44	WB PAGE	1				
23	SB PENNSYLVANIA	1				
24	SB PENNSYLVANIA	1				
63	NB PENNSYLVANIA	1				
64	NB PENNSYLVANIA	1				
83	EB PAGE	1				
84	EB PAGE	1				
11	EB PAGE					V1
61	EB PAGE					V1
62	EB PAGE					V1
31	SB PENNSYLVANIA					V2
81	SB PENNSYLVANIA					V2
82	SB PENNSYLVANIA					V2
51	WB PAGE					V3
21	WB PAGE					V3
71	NB PENNSYLVANIA					V4
41	NB PENNSYLVANIA					V4
TOTAL		8				

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS AND JSP.

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

REMOVE AND RELOCATE EXISTING CCTV CAMERA
TOTAL = 1 EACH

NETWORK CONNECTED SIGNAL MONITOR
TOTAL = 1 EACH

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY
TOTAL = 1 EACH

NOTE: BID PRICE FOR PAD MOUNTED POWER SUPPLY/CONTROLLER SHALL INCLUDE CABLE (#2 AWG.), RIGID STEEL CONDUIT, AND TRENCHING BETWEEN ASSEMBLY AND UTILITY COMPANY FACILITIES

ATC TRAFFIC SIGNAL CONTROLLER
TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø 1 EBL	Ø 2 WB	Ø 3 SBL	Ø 4 NB	Ø 5 WBL	Ø 6 EB	Ø 7 NBL	Ø 4 SB	OLA EBL	OLB SBL	OLC WBL	OLD NBL	Ø 2 PED	Ø 4 PED	Ø 6 PED	Ø 8 PED

ROUTE D PAGE AVE/PENNSYLVANIA AVE

INTERSECTION

ROUTE D / PENNSYLVANIA AVE

ROUTE D

SIGNAL SHEET 5 OF 27

D-37C

STATE OF MISSOURI
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NUMBER PE-2023025373
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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	100

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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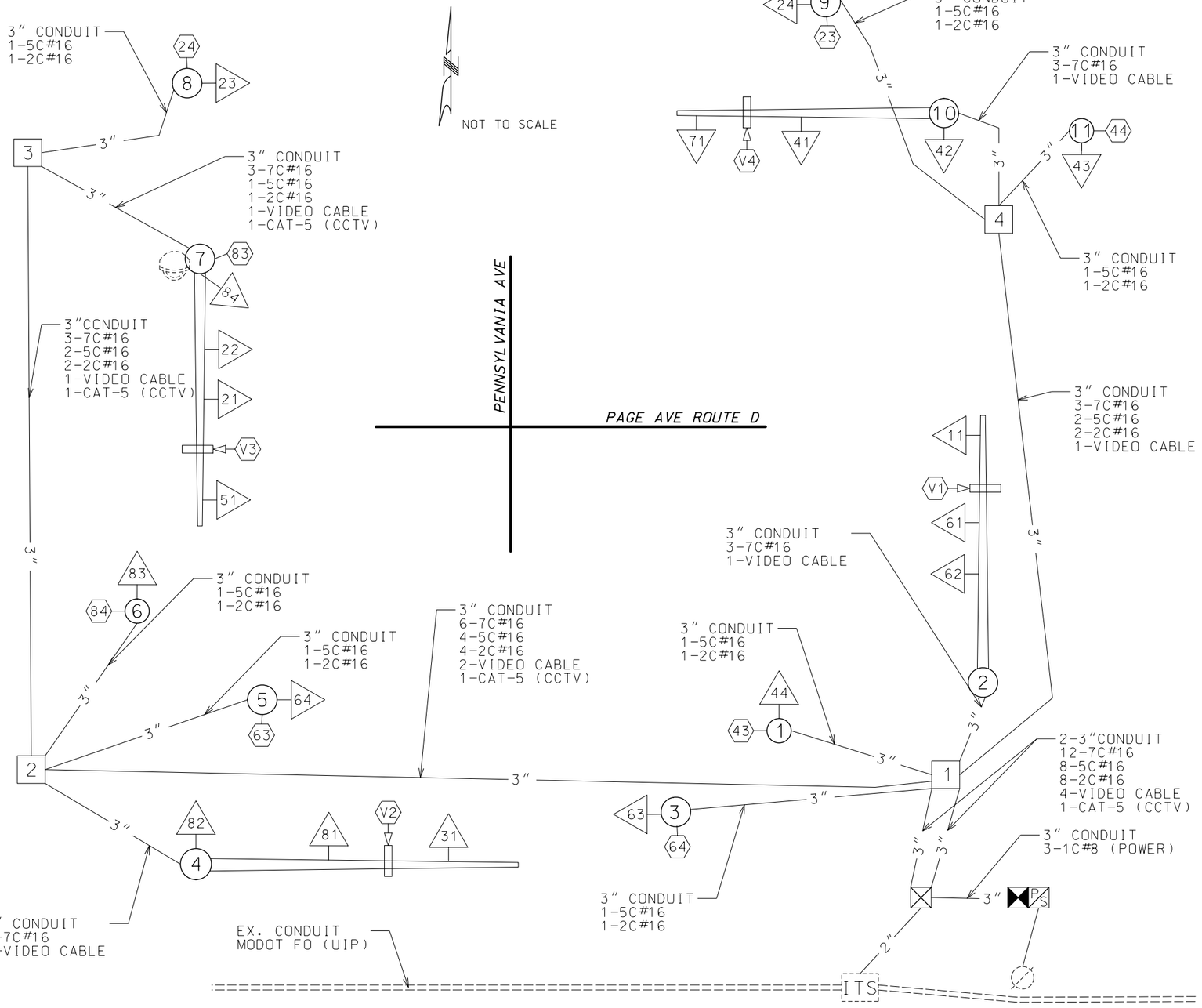
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WIRING DIAGRAM



ROUTE D PAGE AVE/PENNSYLVANIA AVE

INTERSECTION

LEGEND

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

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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	101

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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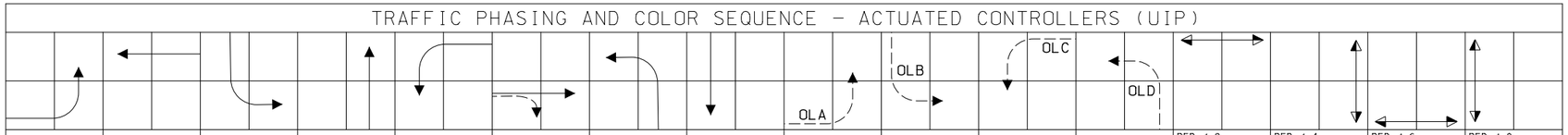
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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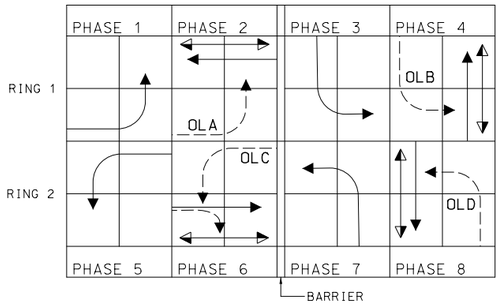
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ROUTE D / PENNSYLVANIA AVE
ROUTE D
SIGNAL SHEET 6 OF 27
D-37D

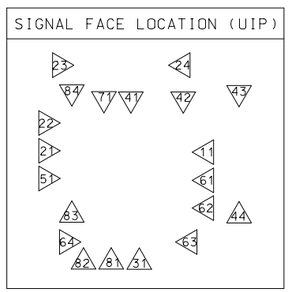
TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS (UIP)



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



RING STRUCTURE



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

FLASHING OPERATION	
ALL	FR

CONTROLLER TYPE	NEMA 8Φ

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE D PAGE AVE
WITH PENNSYLVANIA AVE

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 102
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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

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ROUTE D / PENNSYLVANIA AVE
ROUTE D
SIGNAL SHEET 7 OF 27
D-38A

SCALE
0 10 20 30

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COMMERCIAL

EXIST. ROW

FERGUSON AVE

NEXT SIGNAL 4570'
ST. CHARLES ROCK RD
6.0%
SPEED LIMIT = 25 MPH

EXIST. SIGNAL CONTROLLER (UIP)

ADD 1-CAT-5 CCTV CAMERA CABLE

EXIST. UPS & LIGHTING CONTROLLER (UIP)

EX1 EX2 EX3 EX4 EX5 EX6 EX7 EX8

NEXT SIGNAL 1670'
PENNSYLVANIA AVE
1.0%
SPEED LIMIT = 35 MPH

R&R BACKPLATES WITH RETROREFLECTIVE BACKPLATES UIP SIGNAL HEADS

℄ FERGUSON AVE

℄ RTE D

STA. 5+00.00 FERGUSON AVE=
STA. 116+14.30 RTE D

115+00

116+00

117+00

103.73°

NEXT SIGNAL 2400'
SUTTER AVE
1.0%
SPEED LIMIT = 35 MPH

ADD 1-CAT-5 CCTV CAMERA CABLE

R&R BACKPLATES WITH RETROREFLECTIVE BACKPLATES UIP SIGNAL HEADS

R&R BACKPLATES WITH RETROREFLECTIVE BACKPLATES UIP SIGNAL HEADS

ADD 1-CAT-5 CCTV CAMERA CABLE

NEW CCTV CAMERA ON EXIST. CL POLE

TCE

NEXT SIGNAL 4150'
OLIVE BLVD
3.0%
SPEED LIMIT = 30 MPH

**UIP EXISTING SIGNAL EQUIPMENT AT THIS INTERSECTION
ADD CCTV CAMERA TO POLE EX3
REPLACE BACKPLATES WITH RETROREFLECTIVE BACKPLATES**

ROUTE D / FERGUSON AVE
ROUTE D
SIGNAL SHEET
SHEET 8 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	103

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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

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CABLE				
FROM	TO	CENTER TO CENTER DISTANCE	CAT-5 CCTV CAMERA CABLE	REMARKS
	EX3	138'	188	
		SUBTOTALS	188	
		5% FOR SNAKING	197	
		TOTALS	200	

CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

INSTALL CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

RETROREFLECTIVE BACKPLATE
TOTAL = 12 EACH

RTE D PAGE AVE / FERGUSON AVE

INTERSECTION

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Cassandra McKee Lee - Civil
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	104

COUNTY
ST. LOUIS

JOB NO.
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ROUTE D / FERGUSON AVE
ROUTE D
SIGNAL SHEET 9 OF 27

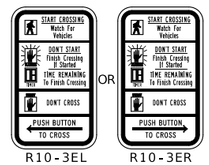
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SCALE
0 10 20 30

INDUSTRIAL

Ø1 NOT USED | Ø2 | Ø3 | Ø4 NOT USED
Ø5 | Ø6 | Ø7 NOT USED | Ø8 NOT USED

CLASS 5 ITS PB
EXIST. PP (USE AS NEW POWER SOURCE)
PROP. 120V SIGNAL POWER SUPPLY WITH UPS
EXIST. MAST ARM (R)
EXIST. ROW
PROP. SIGNAL CONTROLLER
EXIST. MAST ARM (R)
20' MAST ARM
EXIST. ROW
NEXT SIGNAL 2400' FERGUSON AVE
4.5%
SPEED LIMIT = 35 MPH
Sutter Ave
D3-1 STREET SIGN
30' MAST ARM
RAISED CONCRETE ISLAND
℄ RTE D
R10-27a SIGN
POTHOLE - P1
Page Ave
D3-1 STREET SIGN
11' LANE
12' LANE
STA. 5+00.00 SUTTER AVE=
STA. 140+12.05 RTE D
90°
NEXT SIGNAL 1570' OGDEN AVE
1.3%
SPEED LIMIT = 35 MPH
CONDUIT FOR ITS (NEW 24 SM FO CABLE)
R3-2 SIGN
35' MAST ARM
8' POST
R 52.5'
R 300'
R 30'
4' PED PUSH BUTTON POST
NEW 24 SM FO CABLE IN EX CONDUIT (REMOVE EX. FO)
Sutter Ave
D3-1 STREET SIGN
MODOT FO CONDUIT (TBA)
CCTV CAMERA
EXIST. ROW
CONDUIT FOR ITS (PULL FIBER BACK FROM EXIST. CONTROLLER & RUN TO NEW CONTROLLER)
T.C.E.
EXIST. CONTROLLER (R)
EXIST. POWER SUPPLY (R)
EXIST. MAST ARM (R)
EXIST. MODOT ITS PULL BOX (ATG)
CLASS 5 ITS PB (INTERCEPT FIBER)
P.T.S.E.
COMMERCIAL
℄ SUTTER AVE
EXIST. ROW
NEXT SIGNAL N/A
1.4%
SPEED LIMIT = 20 MPH
11' LANE
11' LANE
EXIST. ROW
COMMERCIAL



R10-3EL (45) R10-3ER (23 24 44)
INSTALLED ABOVE PUSH BUTTONS (INCLUDED IN COST FOR AUDIBLE PEDESTRIAN PUSH BUTTON)



R10-27a


R3-2

ROUTE D / SUTTER AVE
ROUTE D
SIGNAL SHEET 10 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	105

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DESCRIPTION
DATE

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

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YARDS) | PULL BOX 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 | DRAIN TYPE* II B | DRAIN TYPE* II C | 4' PED POST | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL LEFT ARM E SIGNAL SPACING E | TYPE B & BL LEFT ARM E SIGNAL SPACING K | TYPE B & BL LEFT ARM E SIGN SPACING E | TYPE B & BL LEFT ARM E SIGN SPACING K | TYPE B & BL RIGHT ARM K SIGNAL SPACING F | TYPE B & BL RIGHT ARM K SIGNAL SPACING G | TYPE B & BL RIGHT ARM K SIGNAL SPACING H | TYPE B & BL RIGHT ARM K SIGNAL SPACING H' | TYPE B & BL RIGHT ARM K SIGN SPACING F | TYPE B & BL RIGHT ARM K SIGN SPACING G | TYPE B & BL RIGHT ARM K SIGN SPACING H | TYPE B & BL RIGHT ARM K SIGN SPACING H' | TYPE B & BL INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
⊘	⊘ UPS	5'					(13)										
⊘ UPS	☒	24'			32'												
⊘ UPS	1	27'			30'												
☒	1	6'			18'												2-3" CONDUITS
1	①	13'			16'												
1	⑥	76'			79'												
1	2	55'						53'									
2	②	12'			13'												
2	③	21'			22'												
2	3	86'						84'									
3	④	5'			8'												
3	⑤	11'			12'												
SUBTOTALS					230		(13)		137								
TOTALS					230		(13)		137								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			CAT-5 CCTV CAMERA CABLE	REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*		
⊘	⊘ UPS	5'		(144)												SOURCE TO SUPPLY
⊘ UPS	☒	24'	88'													3-1C#8 CABLES
☒	1	20'				44'										PEDESTRIAN HEAD 34
☒	1	20'			43'											PUSH BUTTON 35
☒	①	20'					47'									SIGNAL HEAD 22
☒	①	20'					47'									SIGNAL HEAD 33
☒	①	20'					68'									SIGNAL HEAD 21
☒	①	20'					80'									SIGNAL HEAD 51
☒	①	20'												(72)		VIDEO V-1
☒	②	74'				104'										PEDESTRIAN HEAD 35
☒	②	74'			103'											PUSH BUTTON 34
☒	③	124'				154'										PEDESTRIAN HEAD 64
☒	③	124'			153'											PUSH BUTTON 63
☒	④	155'				191'										PEDESTRIAN HEAD 63
☒	④	155'					236'									SIGNAL HEAD 62
☒	④	155'					225'									SIGNAL HEAD 61
☒	④	155'												(240)		VIDEO V-2
☒	④	155'													216'	CCTV
⊘ UPS	④	158'								175'	90'					LUMINARIE
☒	⑤	160'			195'											PUSH BUTTON 64
☒	⑥	83'					125'									SIGNAL HEAD 32
☒	⑥	83'					136'									SIGNAL HEAD 31
☒	⑥	83'					139'									VIDEO V-3
SUBTOTALS			88	(144)	494	493	1103			175	90			(312)	216	
5% FOR SNAKING			92	(151)	519	518	1158			184	95			(328)	227	
TOTALS			100	(160)	520	520	1160			190	100			(330)	230	

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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PAGE AVE ROUTE D/SUTTER AVE

INTERSECTION

ROUTE D / SUTTER AVE

ROUTE D

SIGNAL SHEET
12 OF 27

D-37B

STATE OF MISSOURI
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NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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SL	107

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ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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CRAWFORD, MURPHY & TILLY, INC.
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POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
PAGE AVE	PAGE AVE	PAGE AVE		1	15 Amps	· Amps	100 Amps	Amps		Amps	Ci. Ft.	AMEREN
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
PAGE AVE	1536+85.24	89.6'	·	·	1	·	·	·	·	·	·	·	·	·	·	·	1	·	·	·	·	·
·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
34	EB PAGE	1				
35	EB PAGE	1				
63	NB SUTTER	1				
64	NB SUTTER	1				
21	WB PAGE					V1
51	WB PAGE					V1
31	NB SUTTER					V3
32	NB SUTTER					V3
61	EB PAGE					V2
TOTAL		4				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. 240V LIGHTING IS NOT PRESENT AT THIS INTERSECTION - 240V METER SLOT SHALL BE LEFT EMPTY. SEE DETAILS AND JSP.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
1	R3-2	24 X 24	4.0	4.0	1
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
1	D3-1 ***	60 X 18	7.5	7.5	1
2	D3-1B ***	72 X 18	9.0	18.0	2
1	R10-3EL	9 X 15	0.9	0.9*	1*
3	R10-3ER	9 X 15	0.9	2.7*	3*
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
1	R10-27A	30 X 36	7.5	7.5	1
			SUBTOTAL	37.0	5
			TOTAL	37	5

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NOT USED	Ø 2 WB	Ø 3 NB	NOT USED	Ø 5 WBL	Ø 6 EB	NOT USED	NOT USED	NOT USED	NOT USED	OLC WBL	NOT USED	NOT USED	Ø 3 PED	Ø 6 PED	NOT USED

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

NETWORK CONNECTED SIGNAL MONITOR
TOTAL = 1 EACH

CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

INSTALL CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY
TOTAL = 1 EACH

NOTE: BID PRICE FOR PAD MOUNTED POWER SUPPLY/CONTROLLER SHALL INCLUDE CABLE (#2 AWG.), RIGID STEEL CONDUIT, AND TRENCHING BETWEEN ASSEMBLY AND UTILITY COMPANY FACILITIES

ATC TRAFFIC SIGNAL CONTROLLER
TOTAL = 1 EACH

PAGE AVE ROUTE D/SUTTER AVE
INTERSECTION

STATE OF MISSOURI
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NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	108

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
·

PROJECT NO.
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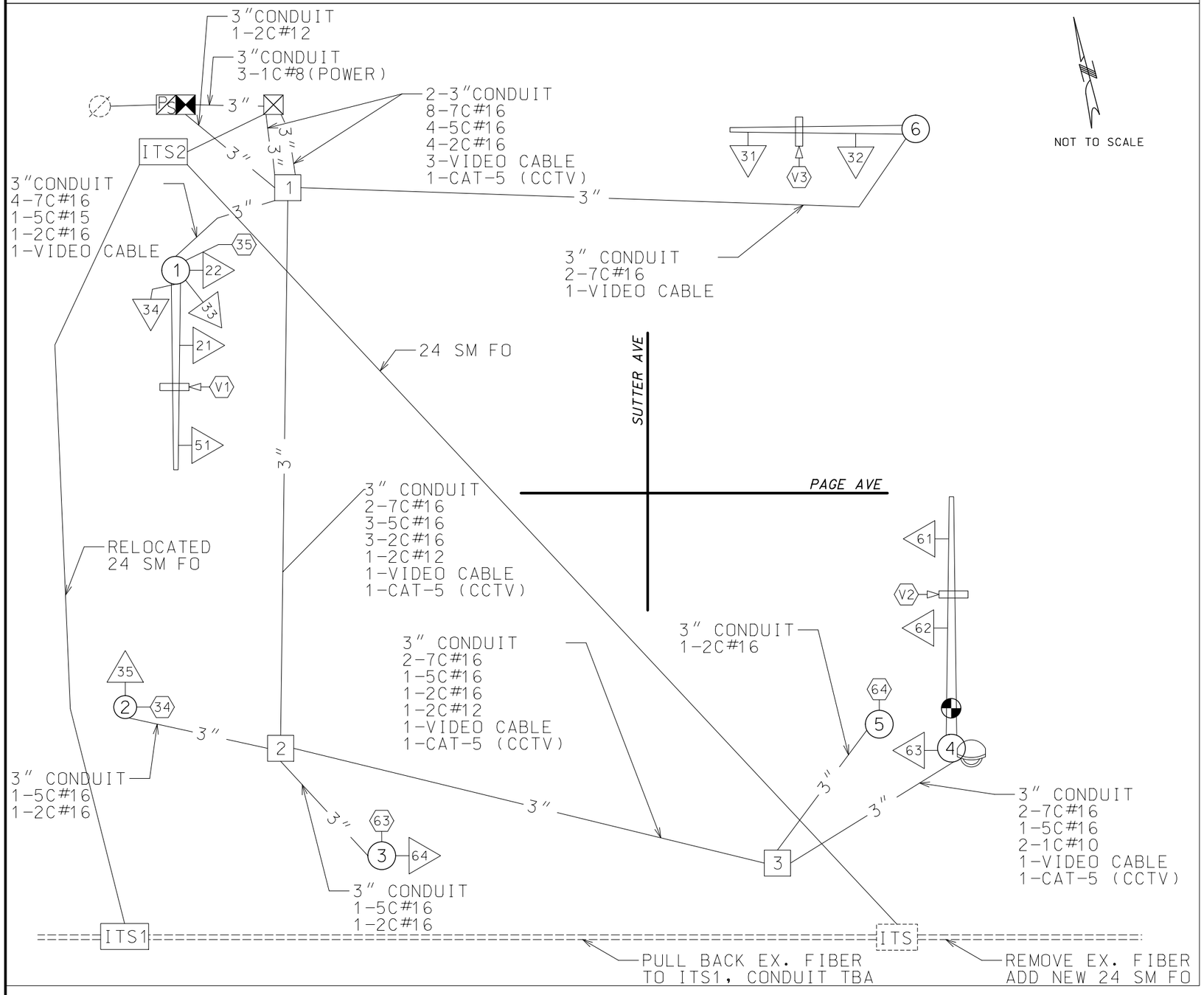
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ROUTE D / SUTTER AVE
ROUTE D
SIGNAL SHEET 13 OF 27
D-37C

WIRING DIAGRAM



PAGE AVE ROUTE D/SUTTER AVE

INTERSECTION

LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
	EXISTING CONDUIT
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 SOURCE
	LIGHTING CONTROLLER
	VIDEO DETECTION CAMERA
	CCTV CAMERA

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D	MO
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ROUTE D / SUTTER AVE

ROUTE D

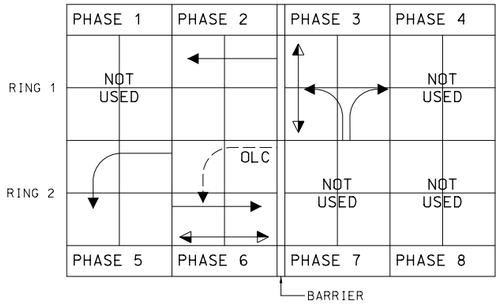
SIGNAL SHEET
14 OF 27

D-37D

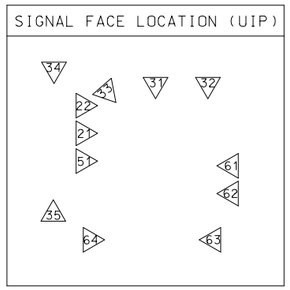
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TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS (UIP)

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Φ 2	PED Φ 3	PED Φ 6	PED Φ 3	
	NOT USED		NOT USED				NOT USED	NOT USED	NOT USED	NOT USED	OLC	NOT USED	NOT USED			NOT USED	
FACE NUMBERS		21 22	31 33 32		51	61 62					51			34 35	64 65		FACE NUMBERS
SIGNAL INDICATIONS R		R R	R R			R R					RL			DW DW	DW DW		R
SIGNAL INDICATIONS Y		Y Y	Y Y			Y Y					YL						Y
SIGNAL INDICATIONS FYA											FYL						FYA
SIGNAL INDICATIONS G		G G	G G		L	G G								W W	W W		G
DETECTOR ASSIGNMENTS		21 22	31 33 32		51	61 62											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)														34 35	64 65		
OVERLAP PARENT PHASES											6						



RING STRUCTURE



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

LEGEND

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

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

FLASHING OPERATION	
ALL	FR

CONTROLLER TYPE	NEMA 8Φ

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE D PAGE AVE
WITH SUTTER AVE

STATE OF MISSOURI
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ROUTE D / SUTTER AVE
ROUTE D
SIGNAL SHEET 15 OF 27

D-38A

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SCALE
0 10 20 30

COMMERCIAL
EXIST. ROW
OGDEN AVE
NEXT SIGNAL 2640'
DR MLK DRIVE
1.7%
SPEED LIMIT = 30 MPH
EXIST. ROW
VACANT

Ø1 Ø2 Ø3 NOT USED Ø4
Ø5 Ø6 Ø7 NOT USED Ø8

T.C.E.
EXIST. PULL BOX (R)
EXIST. MAST ARM (R)
CCTV CAMERA
EXIST. ROW
25' MAST ARM
Page Ave
D3-1 STREET SIGN
EXIST. MAST ARM (R)
RELOCATE EXIST. LPR TO POST 8
EXIST. PULL BOX (R)
EXIST. ROW
Ogden Ave
D3-1 STREET SIGN
8' POST
R 22.5'
8' POST
R 35'
NEXT SIGNAL 1570'
SUTTER AVE
3.2%
SPEED LIMIT = 35 MPH
35' MAST ARM
R10-27A SIGN
STA. 5+00.00 OGDEN AVE=
STA. 155+88.19 RTE D
90°
11' LANE
12' LANE
℄ RTE D
11' LANE
12' LANE
℄ RTE D
D3-1 STREET SIGN
Page Ave
R 42.5'
℄ OGDEN AVE
R10-27A SIGN
35' MAST ARM
Ogden Ave
D3-1 STREET SIGN
NEXT SIGNAL 1800'
SKINKER PKWY
4.4%
SPEED LIMIT = 35 MPH
EXIST. MODOT ITS (UIP)
30' MAST ARM
(R)
8' POST
R 27.5'
EXIST. ITS PULL BOX (ATG)
EXIST. MODOT ITS (UIP)
LIGHTING CONDUIT
EXIST. ROW
EXIST. ROW
EXIST. SIGNAL CONTROLLER (R)
PROP. SIGNAL CONTROLLER
EXIST. MAST ARM (R)
RELOCATE EXIST. LPR TO POST 1
EXIST. SIGNAL PULL BOX (R)
LIGHTING PB
PROP. 120V SIGNAL
POWER SUPPLY WITH UPS
EXIST. POWER SOURCE (UIP)
LIGHTING PB
EXIST. POWER SUPPLY (R)
8' POST
EXIST. MAST ARM (R)
EXIST. PULL BOX (RELOC. BO)
LIGHTING CONDUIT
8' POST
T.C.E.
VACANT
NEXT SIGNAL N/A 2.7%
SPEED LIMIT = 20 MPH

START CROSSING Watch For Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
DON'T CROSS
PUSH BUTTON TO CROSS
OR
R10-3EL 24 64 84
R10-3ER 23 63 83
INSTALLED ABOVE PUSH BUTTONS
(INCLUDED IN COST FOR AUDIBLE PEDESTRIAN PUSH BUTTON)

LEFT TURN YIELD ON FLASHING ARROW
R10-27a

ROUTE D / OGDEN AVE
ROUTE D
SIGNAL SHEET
16 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	111

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | F: 9 | F: 9.5 | F: 10 | F: 10.5 | F: 11 | F: 12 | C | CONCRETE** (CU. YARDS) | PULL BOX: PREFORMED: CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE: STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE*: I | II: A | B | C | 4' PED POST | POST: TOP MOUNT POST: 8 FT. | 15 FT. | TYPE C & CL: ARM LENGTH: A | A | A | A | SIGNAL SPACING: B | C | D | D' | SIGN SPACING: B | C | D | D' | ARM LENGTH | TYPE B & BL: LEFT ARM E: SIGNAL SPACING | | | | SIGN SPACING | | | | RIGHT ARM K: SIGNAL SPACING | | | | SIGN SPACING | | | | INCLUDED ANGLE |
|---|---|---

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
∅	☒	5'					(13)										
☒	□	92'							100'								
□	①	8'			22'												2-3" CONDUITS
1	①	11'			14'												
1	②	5'			6'												
1	3	23'			24'												
1	②	90'							88'								
2	④	26'			27'												
2	5	9'			14'												
2	③	64'							62'								
3	⑥	7'			10'												
3	7	19'			20'												
1	④	65'							63'								
4	⑧	20'			23'												
4	9	8'			9'												
SUBTOTALS					169		(13)		313								
TOTALS					169		(13)		313								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	DETECTOR			CAT-5 CCTV CAMERA CABLE	REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*		
∅	☒	5'		(144)										SOURCE TO SUPPLY
☒	◯	98'	342'											3-1C#8 CABLES
☒	①	19'					83'							SIGNAL HEAD 11
☒	①	19'					73'							SIGNAL HEAD 61
☒	①	19'					62'							SIGNAL HEAD 62
☒	①	19'										(85)		VIDEO V-4
☒	②	12'				36'								PEDESTRIAN HEAD 84
☒	②	12'			35'									PUSH BUTTON 83
☒	③	31'				55'								PEDESTRIAN HEAD 63
☒	③	31'			54'									PUSH BUTTON 64
☒	④	130'				160'								PEDESTRIAN HEAD 64
☒	④	130'			159'									PUSH BUTTON 63
☒	⑤	107'					174'							SIGNAL HEAD 41
☒	⑤	107'					162'							SIGNAL HEAD 42
☒	⑤	107'										(177)		VIDEO V-1
☒	⑥	168'					246'							SIGNAL HEAD 51
☒	⑥	168'					236'							SIGNAL HEAD 21
☒	⑥	168'					227'							SIGNAL HEAD 22
☒	⑥	168'										(250)		VIDEO V-2
☒	⑥	168'											224'	CCTV
☒	⑦	181'				217'								PEDESTRIAN HEAD 23
☒	⑦	181'			216'									PUSH BUTTON 24
☒	⑧	93'					157'							SIGNAL HEAD 81
☒	⑧	93'					145'							SIGNAL HEAD 82
☒	⑧	93'				123'								PEDESTRIAN HEAD 24
☒	⑧	93'			122'									PUSH BUTTON 23
☒	⑧	93'										(159)		VIDEO V-3
☒	⑨	80'				110'								PEDESTRIAN HEAD 83
	9	80			109									PUSH BUTTON 84
SUBTOTALS			342	(144)	695	701	1565					(671)	224	
5% FOR SNAKING			359	(151)	730	736	1643					(705)	235	
TOTALS			360	(160)	730	740	1650					(710)	240	

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

ROUTE D PAGE AVE/OGDEN AVE

INTERSECTION

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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	113

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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ROUTE D / OGDEN AVE
ROUTE D
SIGNAL SHEET
18 OF 27

D-37B

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POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✱				LIGHTING CONTROL ✱ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
PAGE AVE	155+48.37	45.3'		1	15 Amps	- Amps	100 Amps	Amps		Amps Ci. Fs.		AMEREN
			Type		Amps	Amps	Amps	Amps		Amps Ci. Fs.		

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✱ SWITCH		COORDINATION INTERFACE ✱						TIME ✱ CLOCK	NEMA CABINET TYPE ✱			170 CABINET TYPE ✱		170 SOFTWARE ✱	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
PAGE AVE	156+38.61	36.9'	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
63	NB OGDEN	1				
64	NB OGDEN	1				
23	SB OGDEN	1				
24	SB OGDEN	1				
83	WB PAGE	1				
84	WB PAGE	1				
41	SB OGDEN					V1
51	WB PAGE					V2
21	WB PAGE					V2
81	NB OGDEN					V3
11	EB OGDEN					V4
61	EB OGDEN					V4
TOTAL		6				

✱ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS AND JSP.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ***	60 X 18	7.5	15.0	2
2	D3-1B ***	72 X 18	9.0	18.0	2
3	R10-3EL	9 X 15	0.9	2.7*	3*
3	R10-3ER	9 X 15	0.9	2.7*	3*
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15.0	2
			SUBTOTAL	48.0	6
			TOTAL	48	6

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

NETWORK CONNECTED SIGNAL MONITOR
TOTAL = 1 EACH

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY
TOTAL = 1 EACH

NOTE: BID PRICE FOR PAD MOUNTED POWER SUPPLY/CONTROLLER SHALL INCLUDE CABLE (#2 AWG.), RIGID STEEL CONDUIT, AND TRENCHING BETWEEN ASSEMBLY AND UTILITY COMPANY FACILITIES

RELOCATE EXISTING LICENSE PLATE READER
TOTAL = 2 EACH

CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

INSTALL CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

ATC TRAFFIC SIGNAL CONTROLLER
TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø 1 EBL	Ø 2 WB	NOT USED	Ø 4 SB	Ø 5 WBL	Ø 6 EB	NOT USED	Ø 8 NB	OLA EBL	NOT USED	OLC EBL	NOT USED	Ø 2 PED	NOT USED	Ø 6 PED	Ø 8 PED

ROUTE D PAGE AVE/OGDEN AVE
INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	114

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
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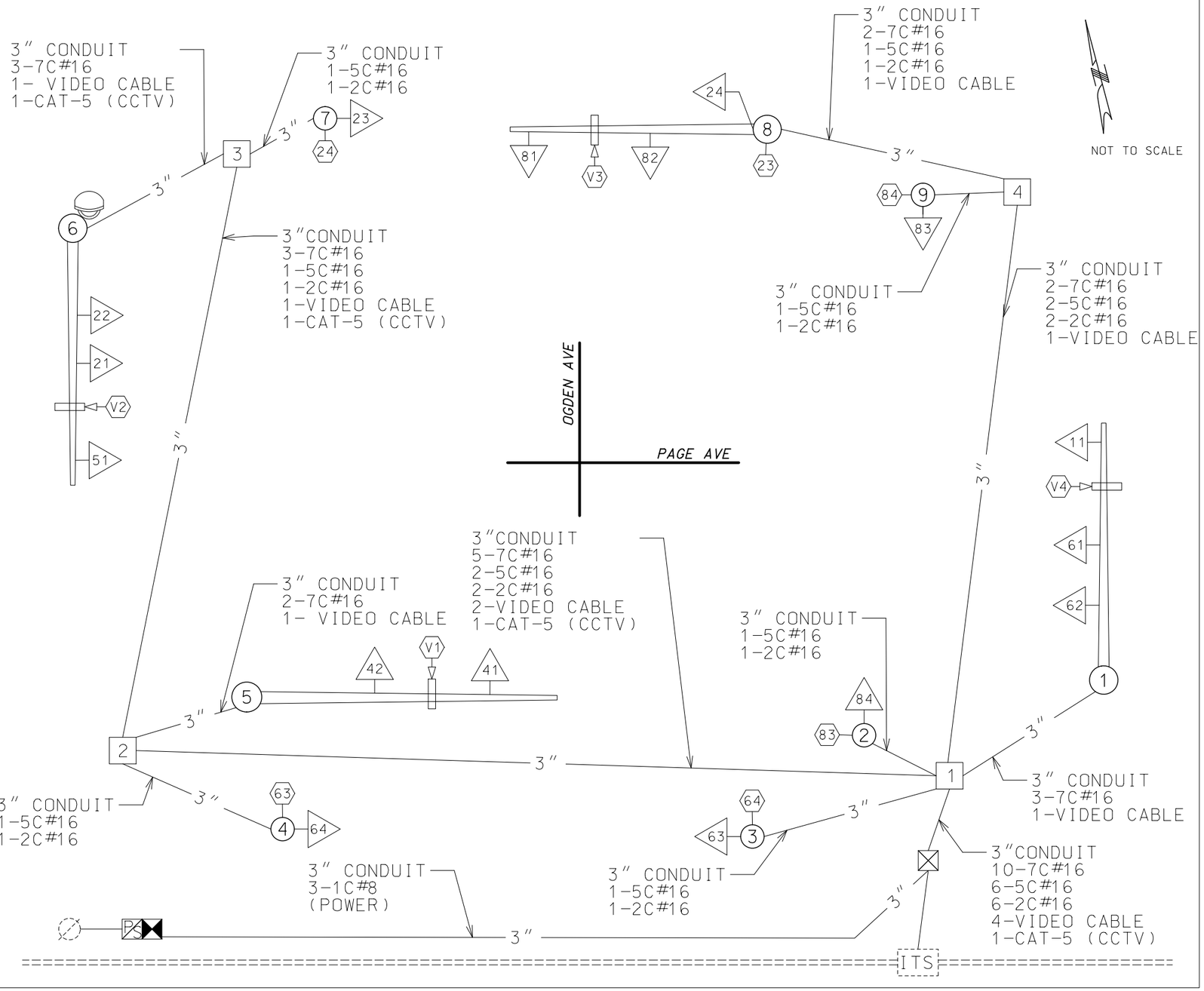
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ROUTE D / OGDEN AVE
ROUTE D
SIGNAL SHEET 19 OF 27
D-37C

WIRING DIAGRAM



ROUTE D PAGE AVE/OGDEN AVE

INTERSECTION

LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
	EXISTING CONDUIT
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
	VIDEO DETECTION CAMERA
	CCTV CAMERA

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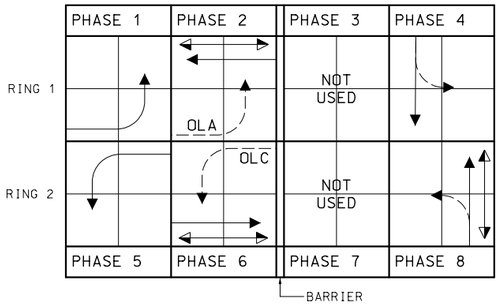
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ROUTE D
SIGNAL SHEET
20 OF 27
D-37D

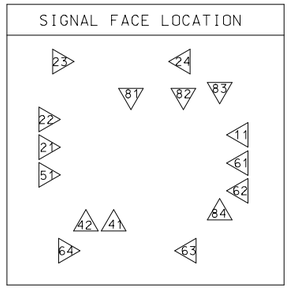
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TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS (UIP)

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



RING STRUCTURE



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

LEGEND

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

FLASHING OPERATION	
ALL	FR
CONTROLLER TYPE	NEMA 8Φ

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE D PAGE AVE
WITH OGDEN AVE

STATE OF MISSOURI
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D	MO
DISTRICT	SHEET NO.
SL	116

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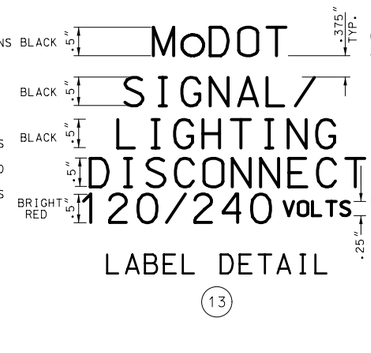
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ROUTE D / OGDEN AVE
ROUTE D
SIGNAL SHEET 21 OF 27
D-38A

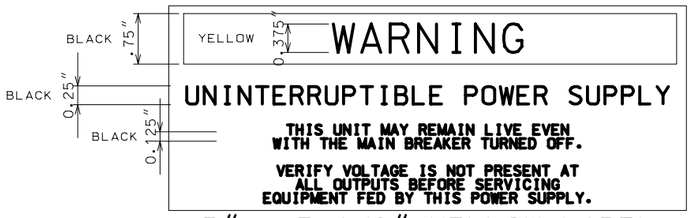
GENERAL NOTES:

1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY.' CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.



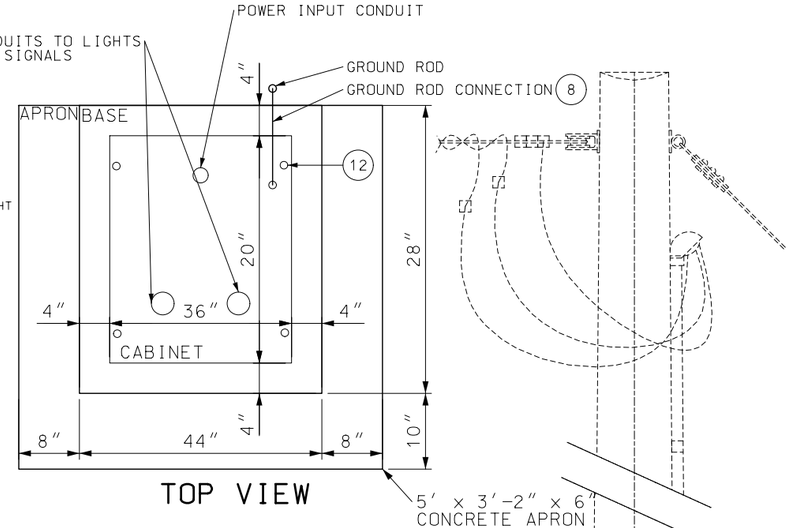
LABEL DETAIL

(13)



5" x 3 1/2" YELLOW LABEL

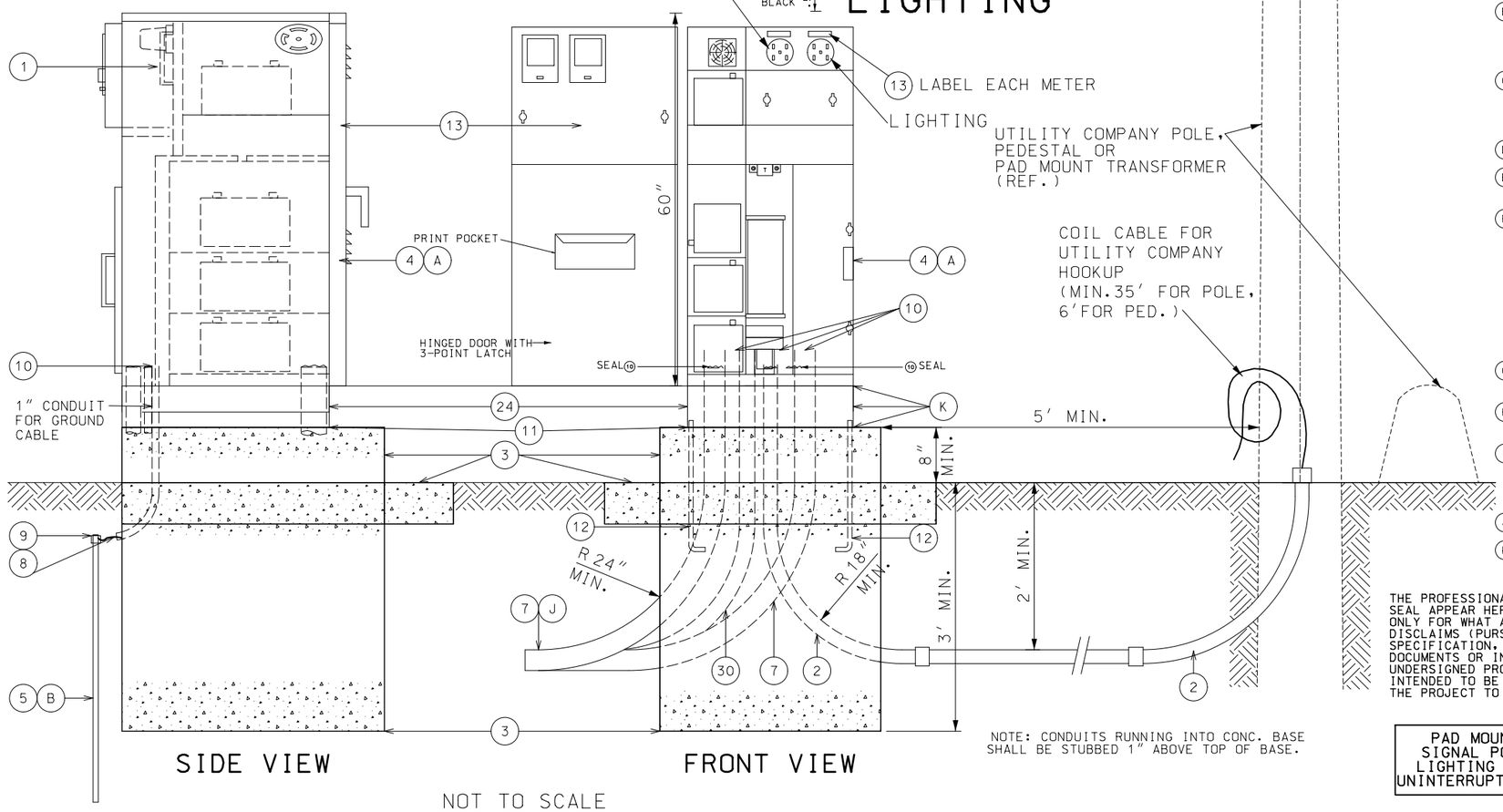
(UNDER SIGNAL METER ON LOWER DOOR)



TOP VIEW

LABEL DETAIL





SIDE VIEW

FRONT VIEW

NOT TO SCALE

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

ROUTE D

SIGNAL SHEET 22 OF 26

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	117

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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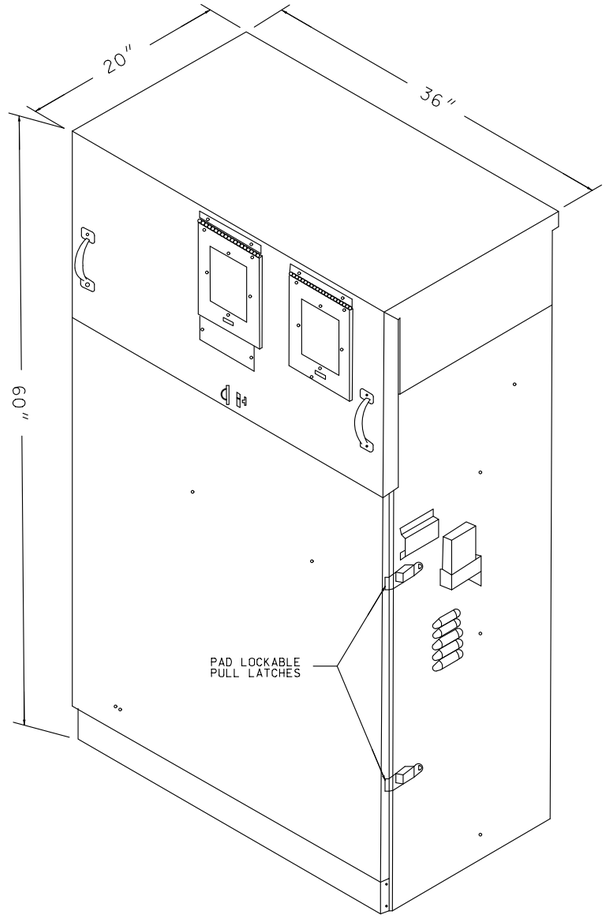
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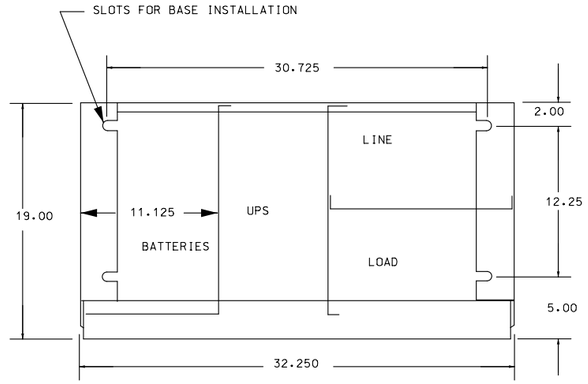
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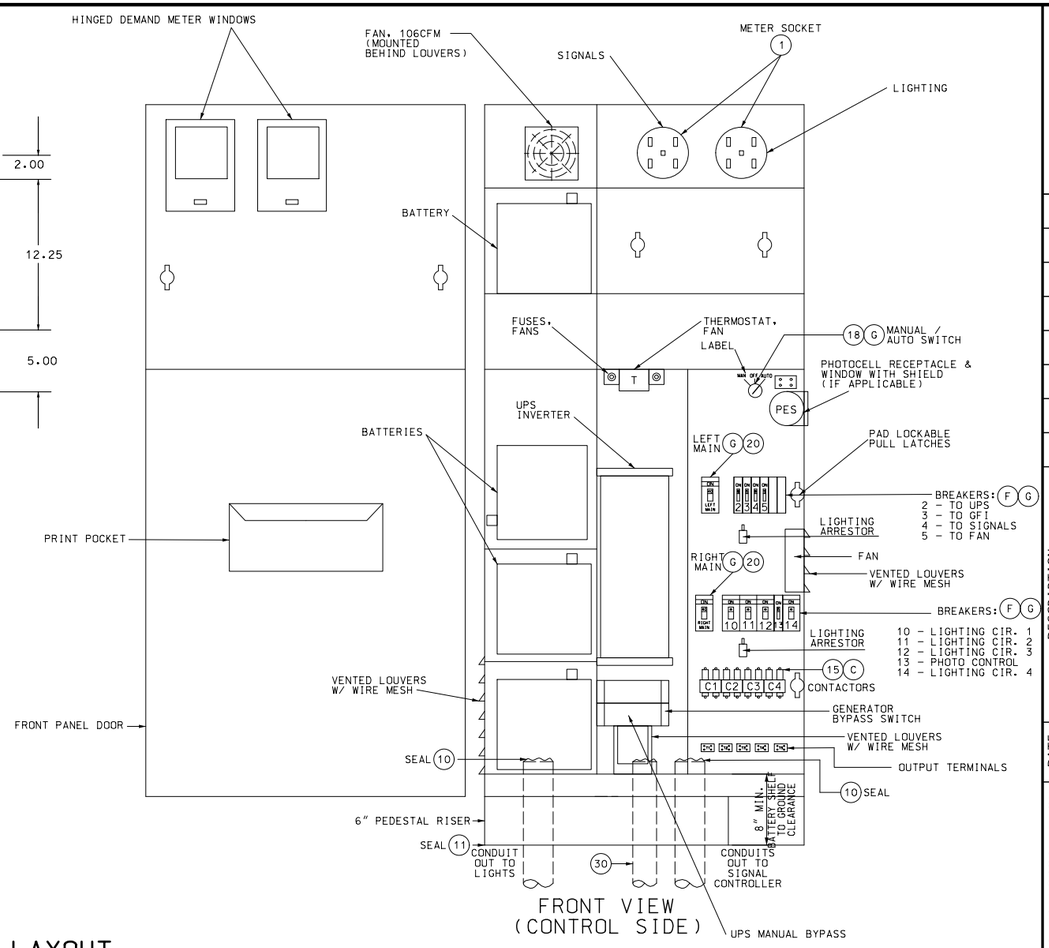




PEDESTAL PLAN VIEW

MOUNTING SLOT DETAIL

NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



FRONT VIEW
(CONTROL SIDE)

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

EQUIPMENT LAYOUT

NOT TO SCALE

LIST OF MATERIALS			
ITEM	DESCRIPTION		
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2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES		
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4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET		
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19	INSULATED GROUNDABLE NEUTRAL, 100 AMP		
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21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS ✳	27	INVERTER (1100VA MINIMUM)
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS ✳	28	1-POLE, 40 AMP, TYPE B UPS BREAKER
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24	6" PEDESTAL RISER	30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)	✳	SEE PLANS FOR SIZE

NOTES

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SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
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35	5550-6500	-
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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

ROUTE D

SIGNAL SHEET
23 OF 26

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	118

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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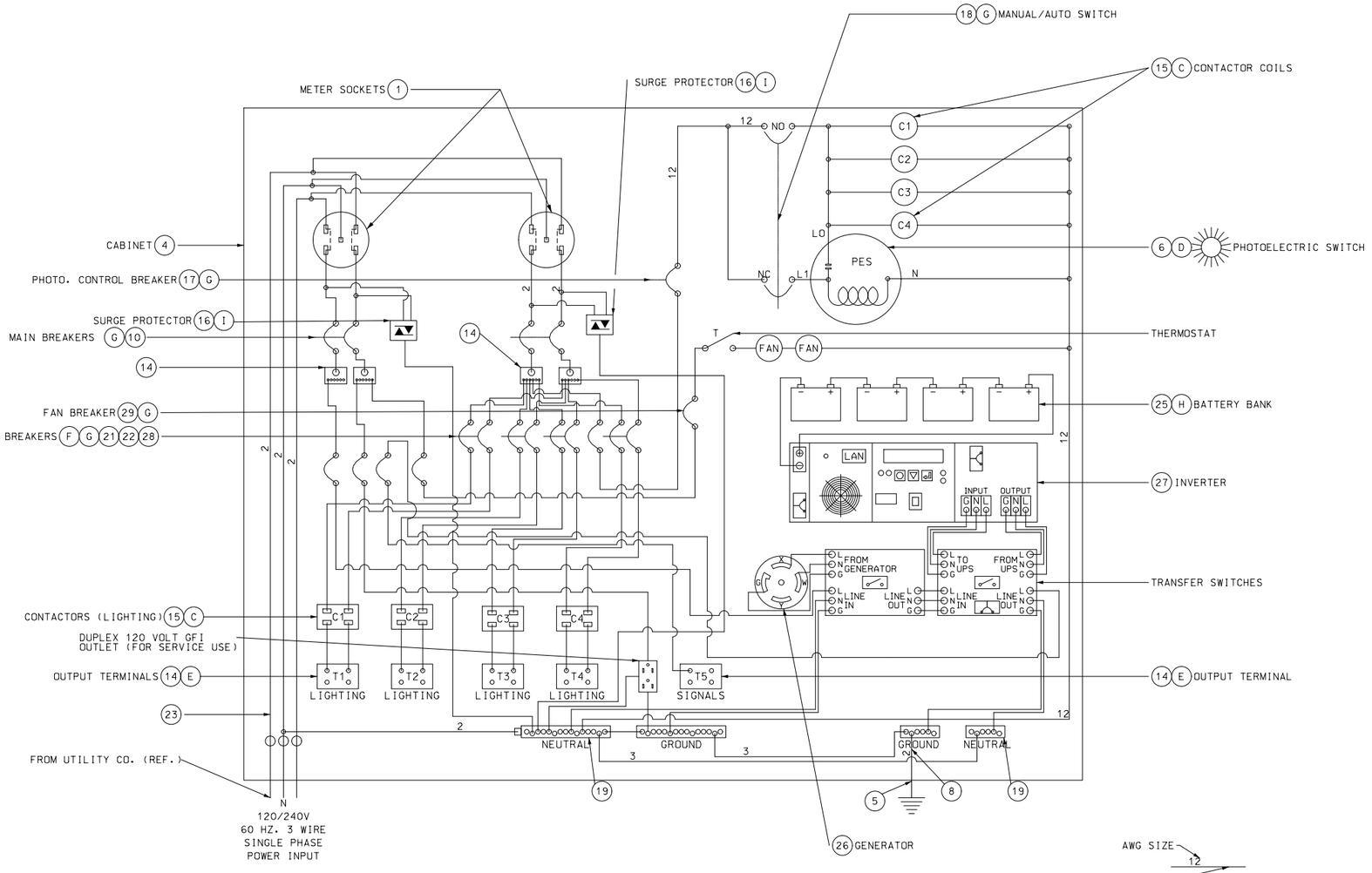
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

ROUTE D

SIGNAL SHEET 24 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	119

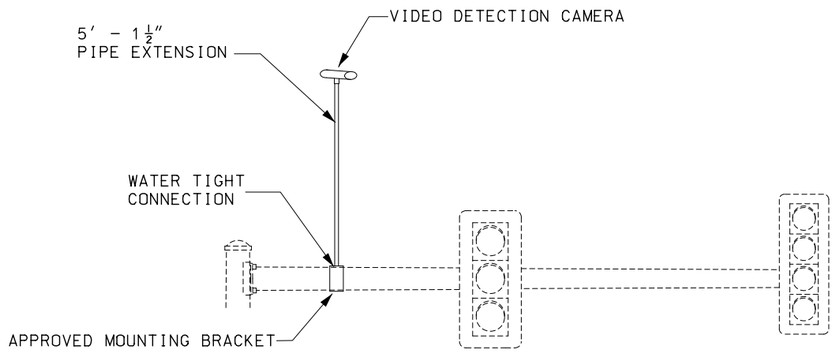
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JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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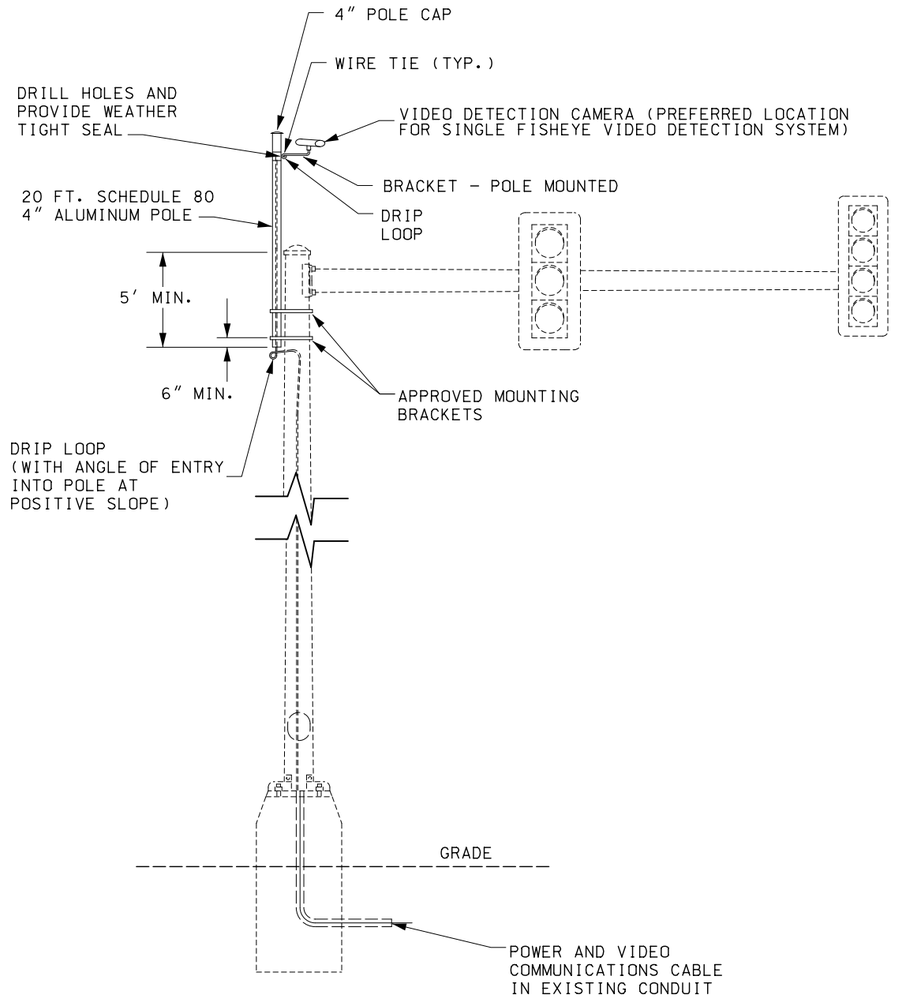
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✳NOT TO SCALE✳



CAMERAS SHALL BE AS CLOSE AS POSSIBLE TO CENTER OF SIGNALIZED APPROACH



VIDEO DETECTION CAMERA MOUNTING

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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	120

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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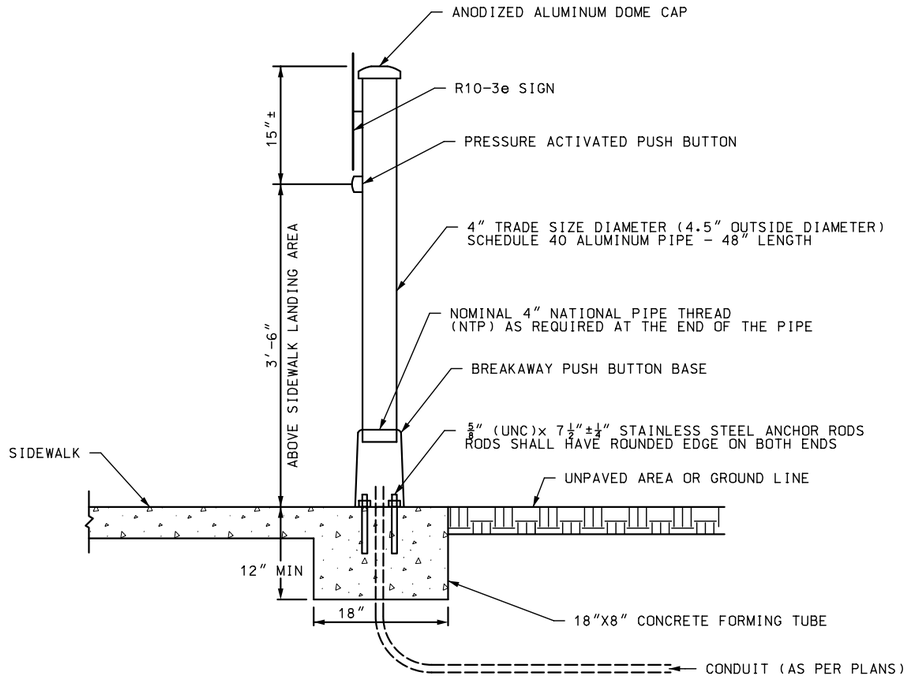
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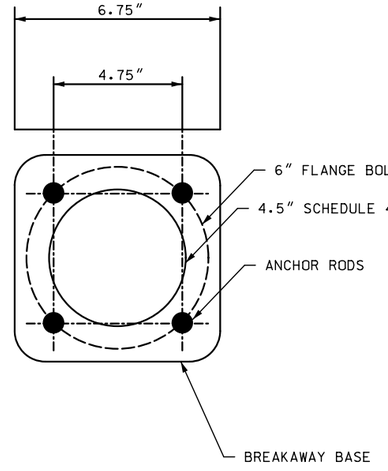
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ROUTE D
SIGNAL SHEET
25 OF 27

✳NOT TO SCALE✳



PUSH BUTTON STANCHION



ANCHOR ROD PLACEMENT

NOTES:

- THE PUSH BUTTON STANCHION FOUNDATION IS CONSTRUCTED AS PART OF THE SIDEWALK. INCREASE THE SIDEWALK THICKNESS TO 12" (MIN.) TO PROVIDE FOR THE PUSH BUTTON STANCHION FOUNDATION.
- INSTALLATION OF THE PUSH BUTTON STANCHION SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- CABLES SHALL HAVE A SLIT-FIT CONNECTION IN THE PEDESTAL THAT WILL DETACH IN THE EVENT THE POLE IS STRUCK.

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	121

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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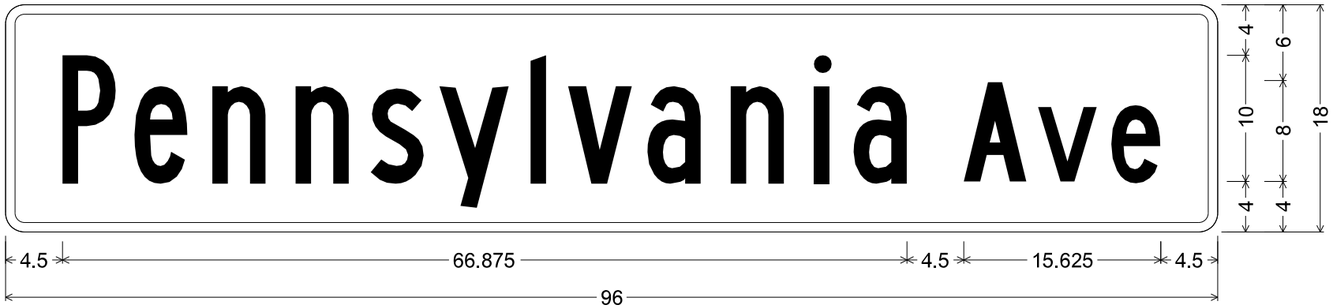
BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

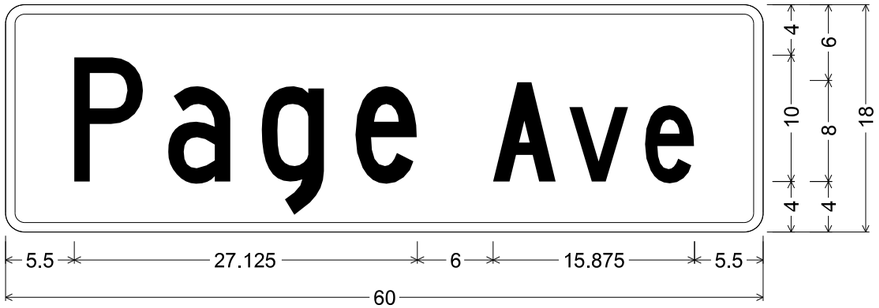
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ROUTE D
SIGNAL SHEET
26 OF 27



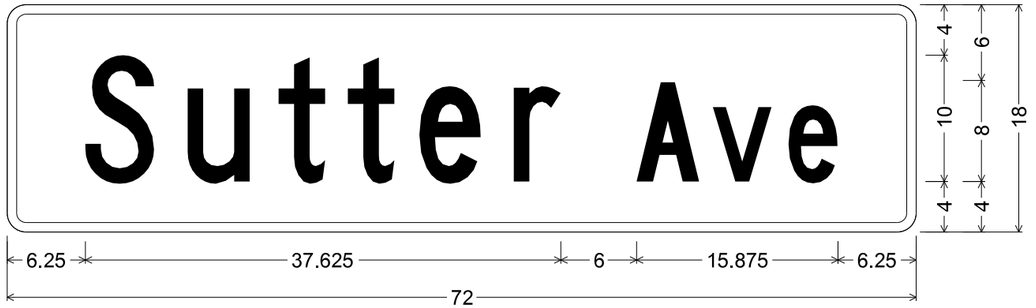
D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Pennsylvania", B 85% spacing; "Ave", C 85% spacing;
Table of letter and object lefts

P	e	n	n	s	y	l	v	a	n	i	a	A	v	e
4.500	10.250	16.375	23.000	28.875	34.375	41.625	44.500	50.875	57.375	64.000	67.125	75.875	81.750	87.625



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Page", C; "Ave", C;
Table of letter and object lefts

P	a	g	e	A	v	e
5.500	12.875	20.250	27.750	38.625	44.625	50.625



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Sutter", C; "Ave", C;
Table of letter and object lefts

S	u	t	t	e	r	A	v	e
6.250	14.250	21.500	27.000	32.625	40.125	49.875	55.875	61.875



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Ogden", C; "Ave", C;
Table of letter and object lefts

O	g	d	e	n	A	v	e
7.500	15.375	22.750	30.250	37.625	48.625	54.625	60.625

STATE OF MISSOURI
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PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
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7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	122

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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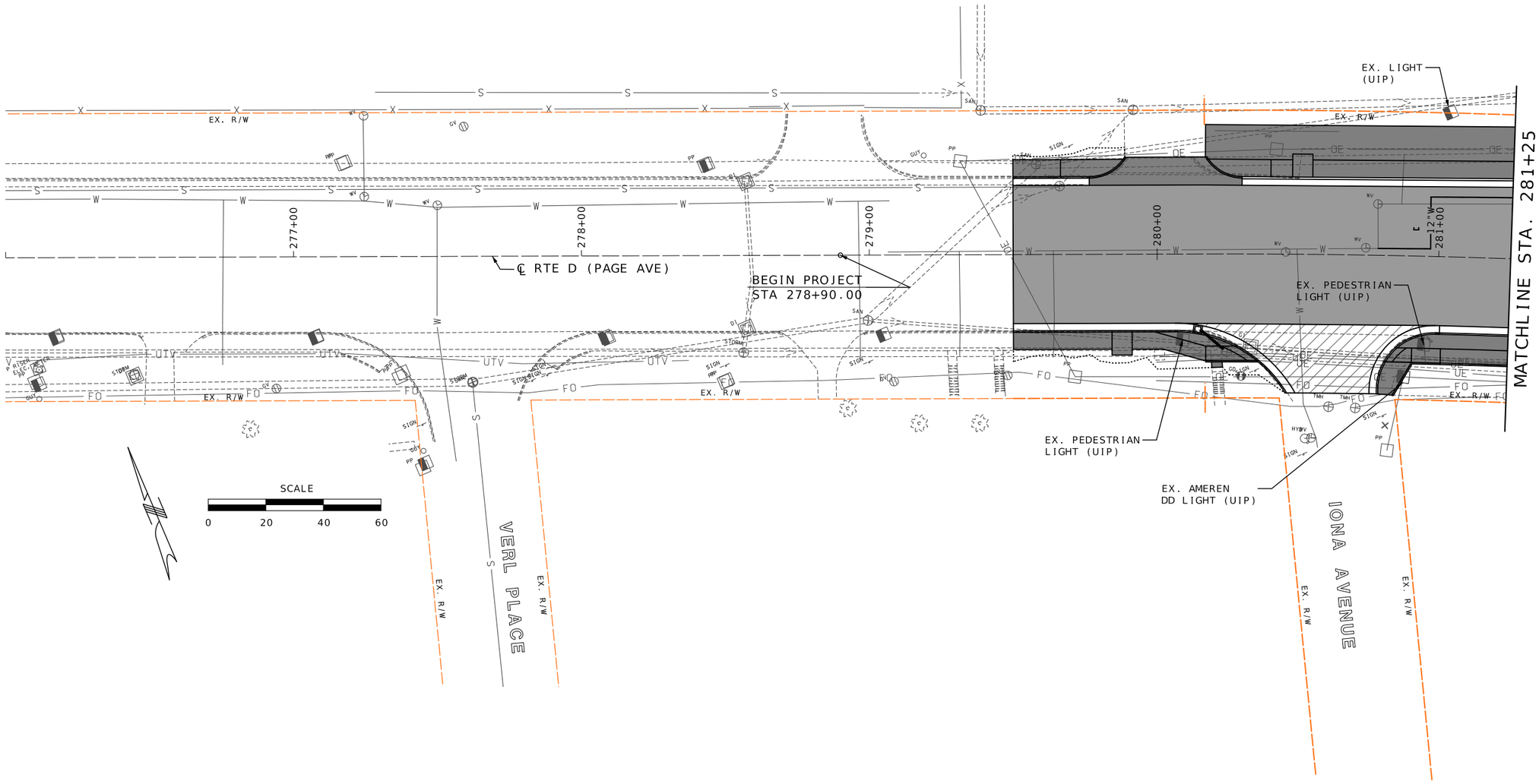
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ROUTE D
SIGNAL SHEET
27 OF 27

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ROUTE D
LIGHTING
AND ITS
SHEET 1 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	123

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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SCALE
0 20 40 60

PENNSYLVANIA AVENUE

MATCHLINE STA. 281+25

MATCHLINE STA. 102+00

EX. AMEREN DD LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. R/W

12"W

FO (UIP)

℄ RTE D (PAGE AVE)

282+00

283+00

100+00

101+00

A2, CLASS 1 PULL BOX
STA 100+20.79
OFF 30.26' LT
CIR A1

MODOT FO (UIP)

A1, CLASS 3 PULL BOX
STA 100+23.63
OFF 28.83' RT
CIR A1

PR 120V/240V
POWER SUPPLY &
LIGHTING CONTROLLER
"A"

EX. PEDESTRIAN LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. MODOT ITS PB (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

PENNSYLVANIA AVENUE

STATE OF MISSOURI
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07/03/2025
Cassandra McKee Lee - Civil
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	124

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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ROUTE D
LIGHTING
AND ITS
SHEET 2 OF 27

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SCALE
0 20 40 60

MILFORD AVENUE
COLBY AVENUE
EX. R/W
T.C.E.
EX. AMEREN DD LIGHT (UIP)
EX. PARKING LOT LIGHT ON PP (UIP)
EX. AMEREN DD LIGHT (UIP)
MATCHLINE STA. 102+00
MATCHLINE STA. 107+25
12"W
8"W
103+00
104+00
105+00
106+00
107+00
℄ RTE D (PAGE AVE)
S62°14'41"E
A101,
TOP MOUNT LED A
ON 30' M.H.
STA 102+50.25
OFF 30.31' LT
CIR-A1
EX. PEDESTRIAN LIGHT (UIP)
EX. PEDESTRIAN LIGHT (UIP)
EX. PRIVATE LIGHT (UIP)
EX. AMEREN DD LIGHT (UIP)
EX. PEDESTRIAN LIGHT (UIP)
EX. PP (UIP)
ADD AMEREN DD LIGHT
ON 6' BRACKET (BO)
GRIEFIELD PLACE

STATE OF MISSOURI
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PROFESSIONAL ENGINEER
07/03/2025
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MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	125

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
.
BRIDGE NO.
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DESCRIPTION	DATE
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ROUTE D
LIGHTING
AND ITS
SHEET 3 OF 27

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SCALE
0 20 40 60

LEROY AVENUE

MATCHLINE STA. 107+25

MATCHLINE STA. 112+65

℄ RTE D (PAGE AVE)

EX. PARKING LOT LIGHT ON PP (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

B101,
TOP MOUNT LED A
ON 30' M.H.
STA 111+20.86
OFF 30.48' RT
CIR B1

B1, CLASS 3 PULL BOX
STA 111+20.66
OFF 35.22' RT
CIR B1

PR 120V/240V
POWER SUPPLY &
LIGHTING CONTROLLER
"B"

PURCELL AVENUE

BUCKNER AVENUE

EX. R/W

T.C.E.

12"W

108+00 109+00 110+00 111+00 112+00

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	126

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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ROUTE D
LIGHTING
AND ITS
SHEET 4 OF 27

25MSD-00107 ; BASEMAPS 16J, 17J, 17H

L:\MoDOT\23005438-00_RouteDDesign\543800\Roadway\Sheets\123-138_LT_1-16_J6S3215B.dgn

7/3/2025

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SCALE
0 20 40 60

EX. AMEREN DD LIGHT (UIP)
ADD AMEREN DD LIGHT ON 6' BRACKET (BO)
EX. PEDESTRIAN LIGHT (UIP)
EXIST. LIGHTING CONTROLLER "C" (UIP)
EX. AMEREN DD LIGHT (UIP)
FERGUSON AVENUE
EX. R/W
MATCHLINE STA. 112+65
113+00
114+00
115+00
116+00
117+00
MATCHLINE STA. 118+00
℄ RTE D (PAGE AVE)
(MODOT)
EX. PEDESTRIAN LIGHT (UIP)
EX. AMEREN DD LIGHT (UIP)
EX. PEDESTRIAN LIGHT (UIP)
EX. PEDESTRIAN LIGHT (UIP)
EX. MODOT FO PB (UIP)
EX. PEDESTRIAN LIGHT (UIP)
EX. LIGHTING PB (ATG)
EX. AMEREN DD LIGHT (UIP)
EX. PEDESTRIAN LIGHT (UIP)
T.C.E.
FERGUSON AVENUE

ROUTE D
LIGHTING
AND ITS
SHEET 5 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	127

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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SCALE
0 20 40 60

BELRUE AVENUE

MATCHLINE STA. 118+00

MATCHLINE STA. 123+25

EX. R/W

EX. AMEREN DD LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. PEDESTRIAN LIGHT (UIP)

C1, CLASS 1 PULL BOX
INTERCEPT EX. CIRCUIT
STA 120+46.90
OFF 43.10' RT
CIR C4

EX. PEDESTRIAN LIGHT (UIP)

C401, PEDESTRIAN LIGHT
STA 121+04.35
OFF 42.97' RT
CIR C4

C402, PEDESTRIAN LIGHT
STA 121+62.73
OFF 42.98' RT
CIR C4

c403, PEDESTRIAN LIGHT
STA 122+04.35
OFF 43.24' RT
CIR C4

C404, PEDESTRIAN LIGHT
STA 122+54.37
OFF 43.58' RT
CIR C4

C405, PEDESTRIAN LIGHT
STA 123+04.35
OFF 44.75' RT
CIR C4

EX. AMEREN DD LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

EX. AMEREN DD LIGHT (UIP)

*SEE DETAIL 1

℄ RTE D (PAGE AVE)

(MODOT)

T.C.E.

119+00 120+00 121+00 122+00 123+00

12"W 8"W

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	128

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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ROUTE D
LIGHTING
AND ITS
SHEET 6 OF 27

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SCALE
0 20 40 60

WOODRUFF AVENUE

EX. R/W

EX. AMEREN
DD LIGHT (UIP)

MATCHLINE STA. 123+25

MATCHLINE STA. 128+50

S79°47'01"E

℄ RTE D (PAGE AVE)

EX. AMEREN
DD LIGHT (UIP)

C406, PEDESTRIAN LIGHT
STA 123+54.35
OFF 45.92' RT
CIR C4

C407, PEDESTRIAN LIGHT
STA 124+04.35
OFF 45.80' RT
CIR C4

C408,
PEDESTRIAN LIGHT
STA 124+54.35
OFF 45.68' RT
CIR C4

C409, PEDESTRIAN LIGHT
STA 125+04.35
OFF 45.53' RT
CIR C4

C410, PEDESTRIAN LIGHT
STA 125+54.35
OFF 45.38' RT
CIR C4

C411, PEDESTRIAN LIGHT
STA 126+04.35
OFF 45.23'
CIR C4

KINGSLAND AVENUE

(MODOT)

EX. AMEREN
DD LIGHT (UIP)

ROUTE D
LIGHTING
AND ITS
SHEET 7 OF 27

STATE OF MISSOURI
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7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	129

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ST. LOUIS

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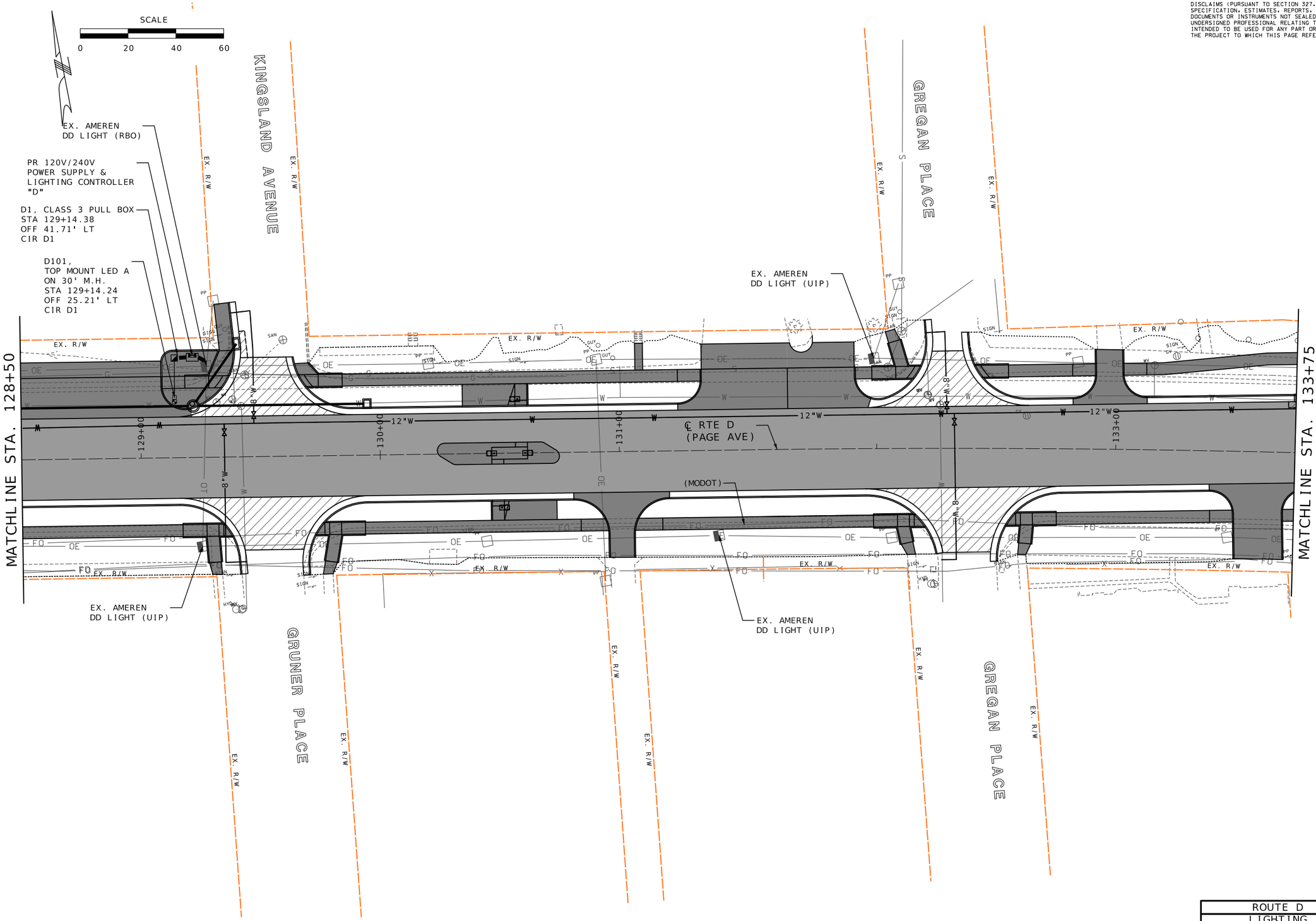
BRIDGE NO.
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DESCRIPTION	DATE
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ROUTE D
LIGHTING
AND ITS
SHEET 8 OF 27

STATE OF MISSOURI
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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	130

COUNTY
ST. LOUIS

JOB NO.
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BRIDGE NO.
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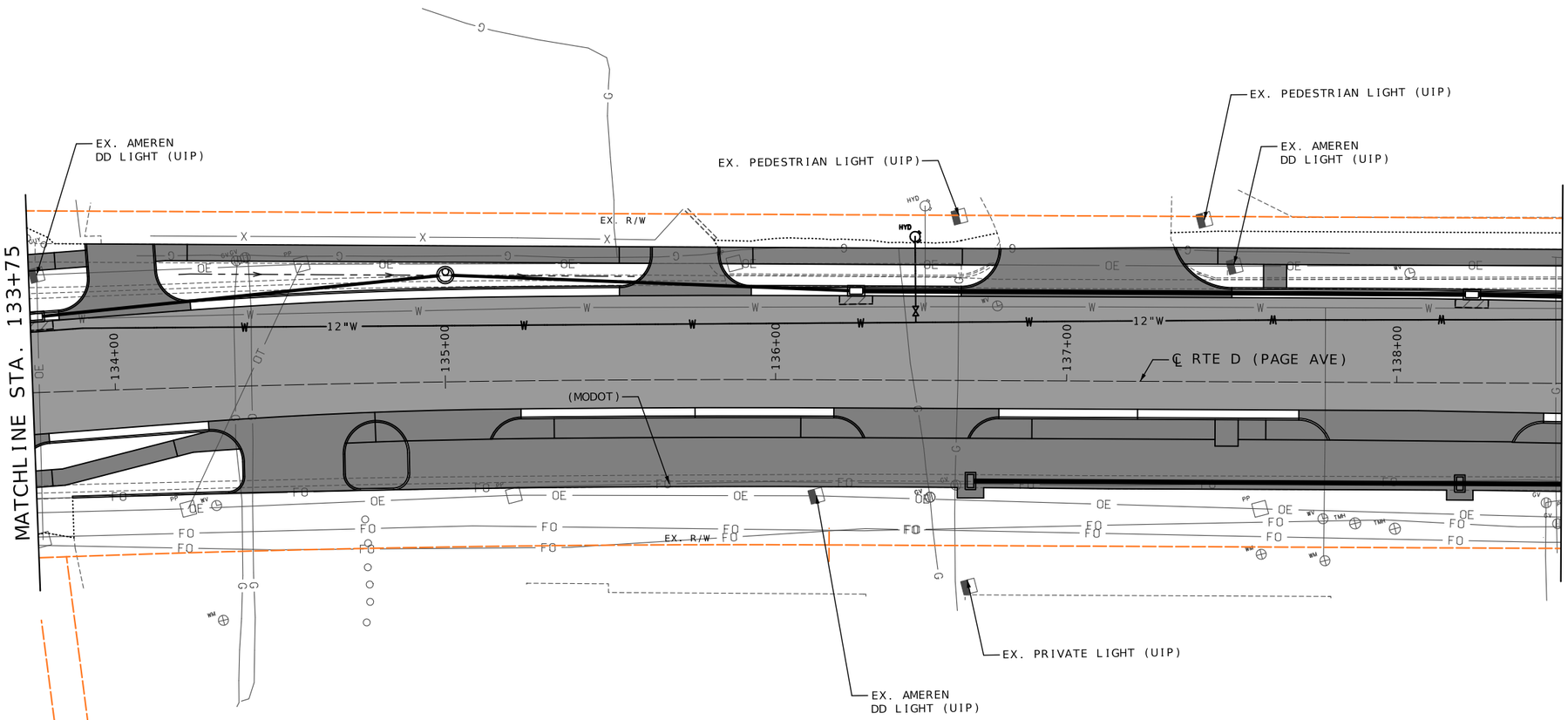
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SCALE
0 20 40 60



STATE OF MISSOURI
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PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	131

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ROUTE D
LIGHTING
AND ITS
SHEET 9 OF 27

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SCALE
0 20 40 60

MATCHLINE STA. 138+50

MATCHLINE STA. 143+75

EX. PRIVATE LIGHT (UIP)

ITS-2
CLASS 5
ITS PB

EX. PRIVATE LIGHT (UIP)

STANDPIPE

12"W

8"W

139+00

140+00

141+00

142+00

143+00

℄ RTE D (PAGE AVE)

EX. R/W

EX. UTILITY ESM'T.

EX. AMEREN
DD LIGHT (UIP)

EX. MODOT ITS PB (ATG)

CONDUIT FOR ITS
(NEW 24 SM FO CABLE)

NEW 24 SM FO CABLE IN EX.
CONDUIT (REMOVE EX. FO)

CONDUIT FOR ITS
(PULL FIBER BACK FROM
EXIST. CONTROLLER &
RUN TO NEW CONTROLLER)

ITS-1
CLASS 5
ITS PB

SUTTER AVENUE

EX. R/W

EX. R/W

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	132

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ST. LOUIS

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J6S3215B

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BRIDGE NO.
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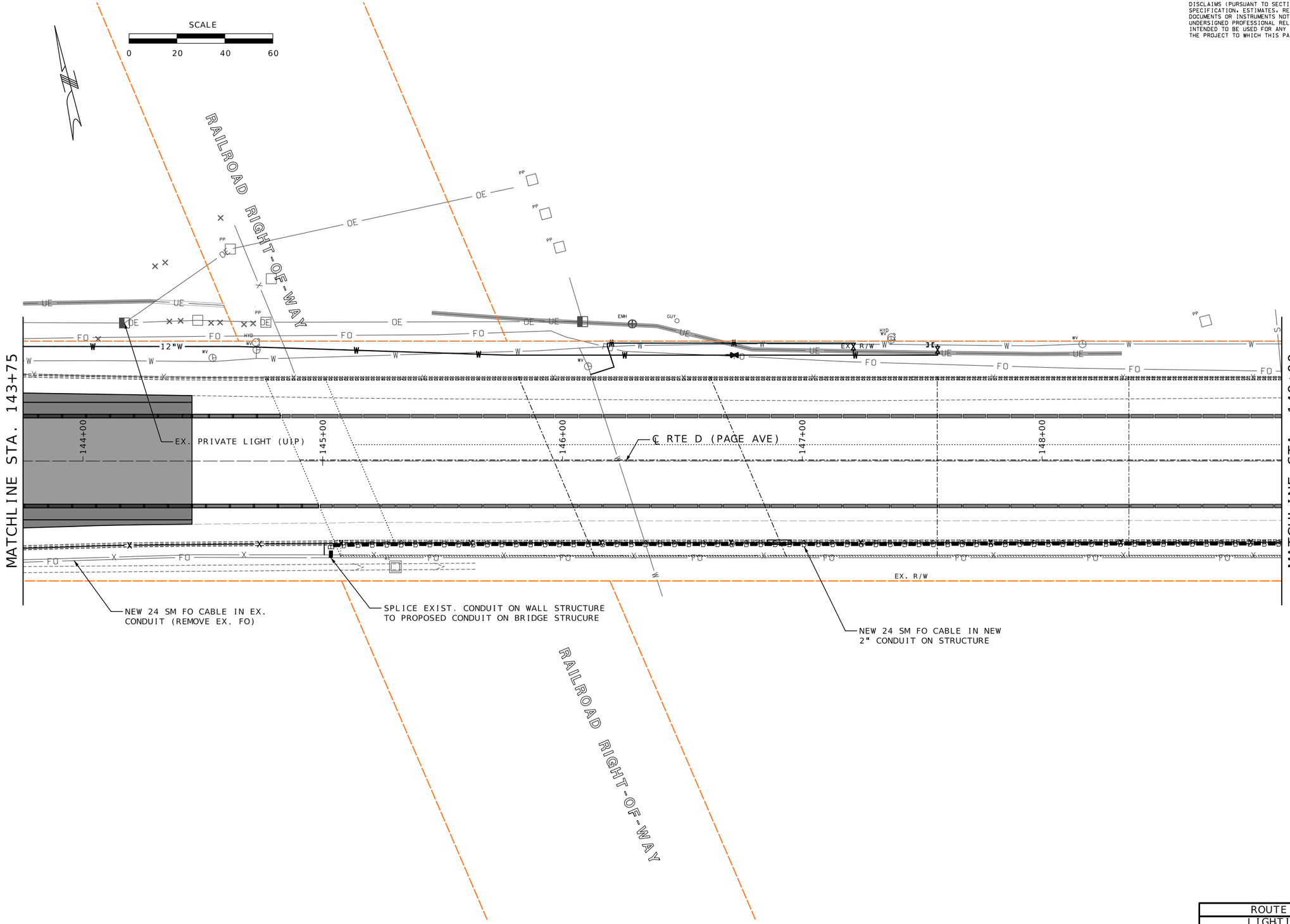
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ROUTE D
LIGHTING
AND ITS
SHEET 10 OF 27

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Cassandra McKee Lee - Civil
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ROUTE D
LIGHTING AND ITS
SHEET 11 OF 27

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SCALE
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MATCHLINE STA. 149+00

MATCHLINE STA. 154+25

℄ RTE D (PAGE AVE)

S75°08'22"E

150+00 151+00 152+00 153+00 154+00

EX. R/W

NEW 24 SM FO CABLE IN NEW 2" CONDUIT ON STRUCTURE

NEW 24 SM FO CABLE IN EX. CONDUIT (REMOVE EX. FO)

SPLICE EXIST. CONDUIT ON WALL STRUCTURE TO PROPOSED CONDUIT ON BRIDGE STRUCURE

(MODOT)

STATE OF MISSOURI
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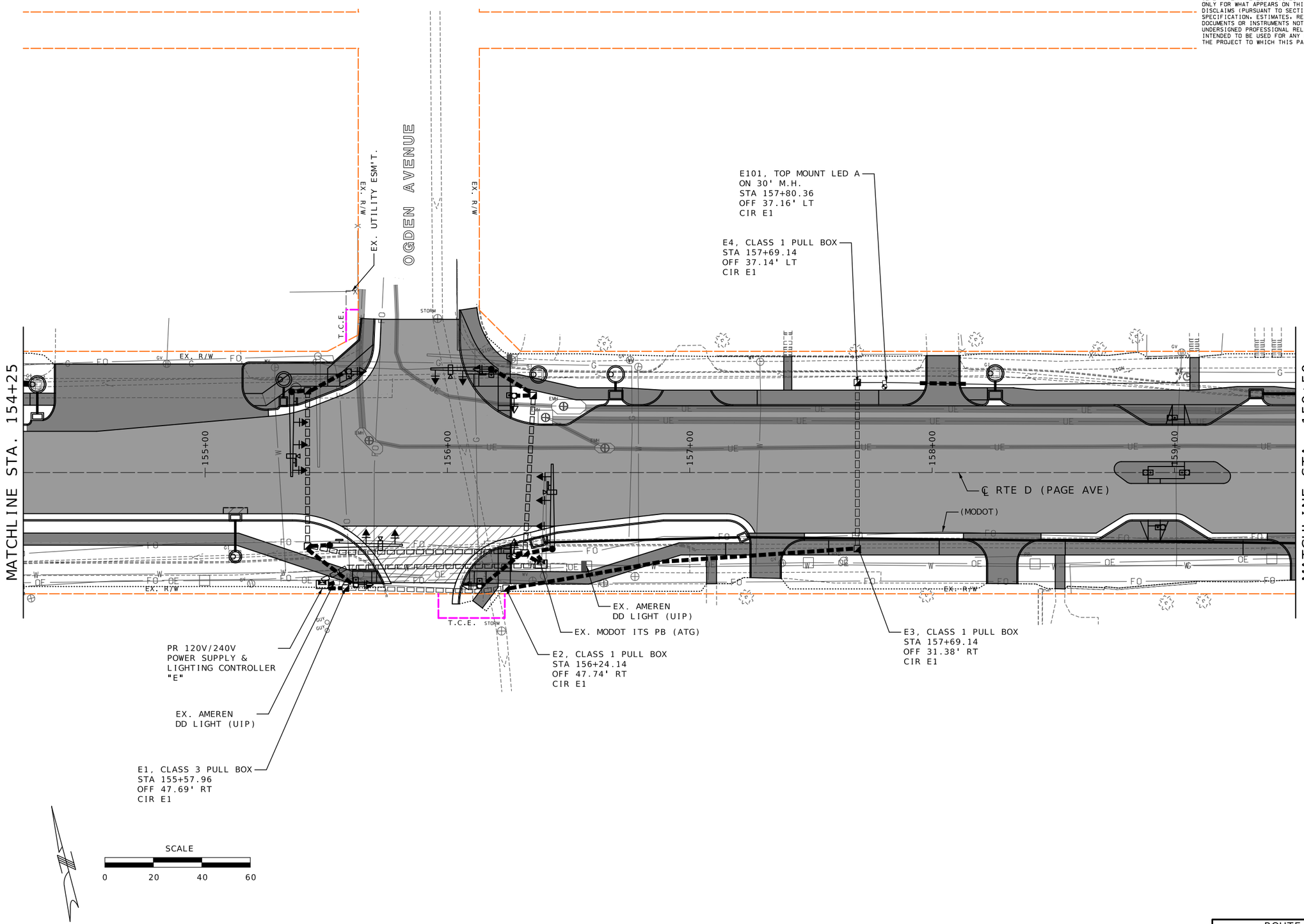
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ROUTE D
LIGHTING
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SHEET 12 OF 27

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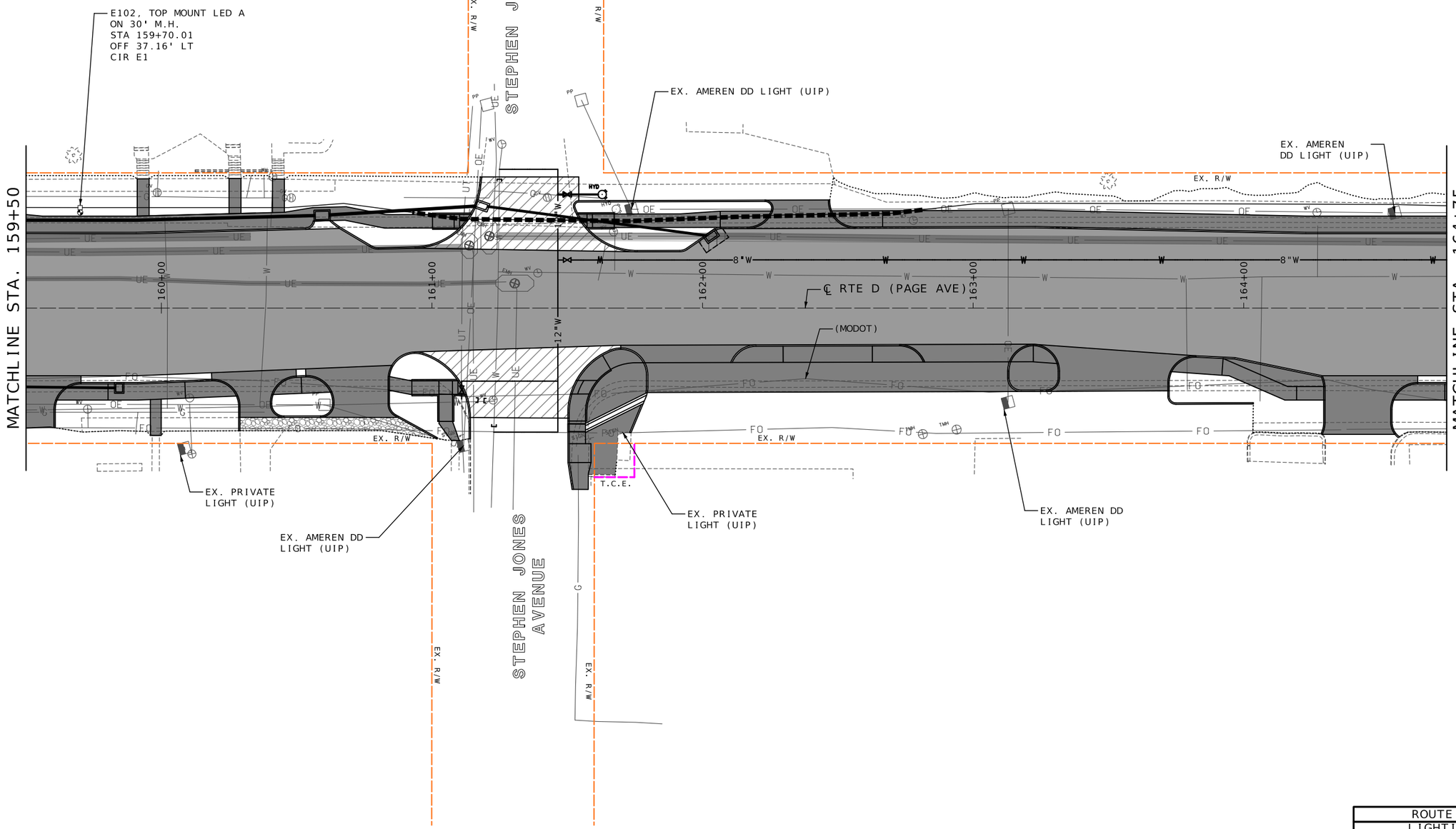
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ROUTE D
LIGHTING
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SHEET 13 OF 27

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ROUTE D
LIGHTING
AND ITS
SHEET 14 OF 27

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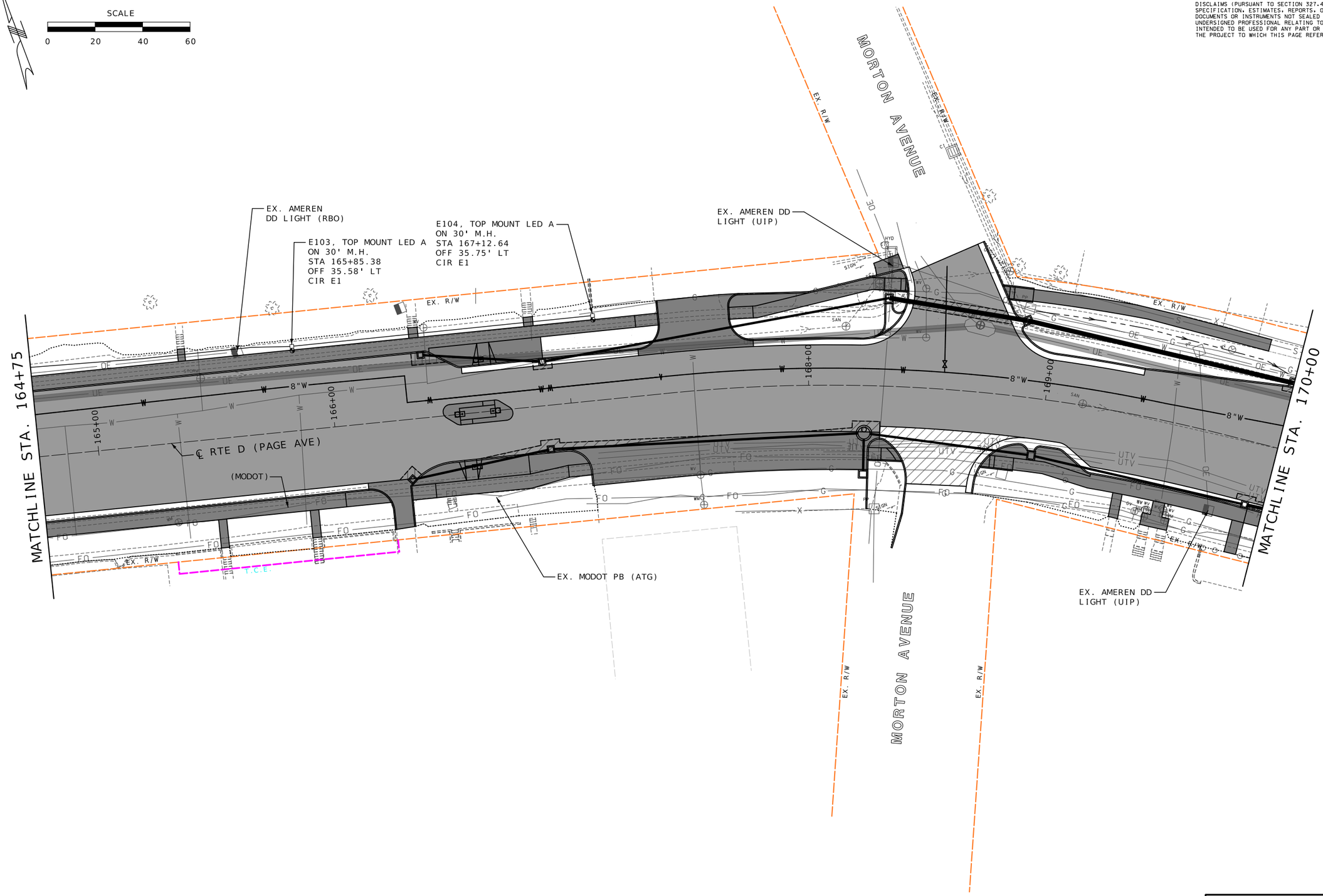
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ROUTE D
LIGHTING
AND ITS
SHEET 15 OF 27

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SCALE
0 20 40 60

MATCHLINE STA. 170+00

EX. R/W

C RTE D (PAGE AVE)

171+00

172+00

S55°07'05"E

END PROJECT
STA. 172+90

(MODOT)

(MODOT)

EX. R/W

SKINKER AVENUE

EX. R/W

ROUTE	D
LIGHTING AND ITS SHEET 16 OF 27	

STATE OF MISSOURI
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07/03/2025
Cassandra McKee Lee - Civil
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D	MO
DISTRICT	SHEET NO.
SL	138

COUNTY
ST. LOUIS

JOB NO.
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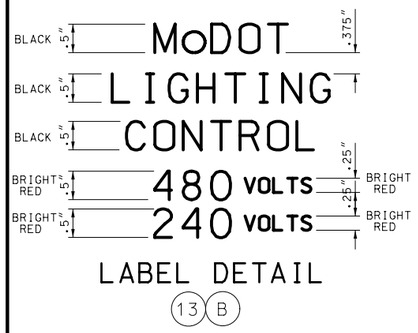
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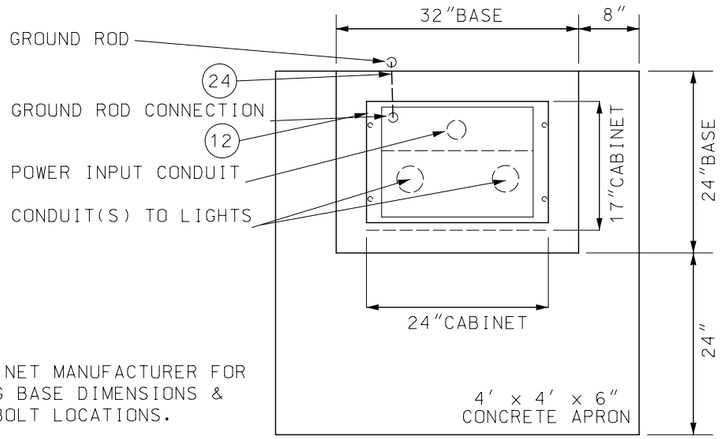
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LABEL DETAIL

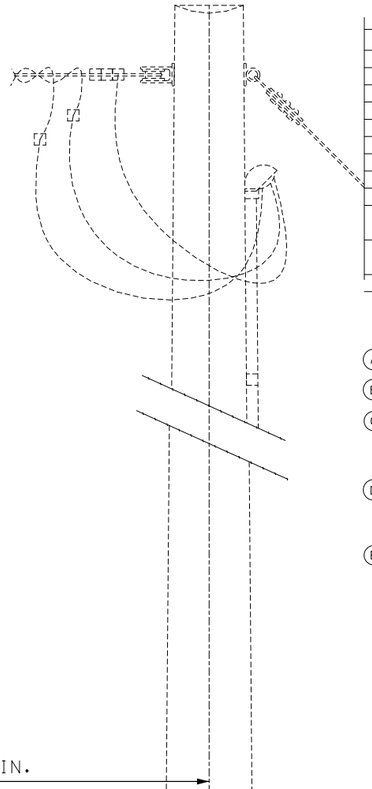
(13)(B)



SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS & ANCHOR BOLT LOCATIONS.

TOP VIEW

NOTE:
CABINET SHALL BE LOCATED WITH A MINUMUM 36" CLEARANCE, FRONT AND BACK.



LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP.
2	RIGID STEEL CONDUIT 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 0.9 C.Y.±
4	NEMA 4, DUST-TIGHT, WATERTIGHT, CABINET
5	GROUND ROD, .344" DIA. X 8' MIN. (MIN 8' IN SOIL)
7	RIGID CONDUIT TO FIRST PULL BOX (SEE PLANS FOR SIZE)
10	PLIABLE DUCT SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
24	GROUND WIRE, #2 AWG. MIN.

NOTES

(A) IF CABLE-CONDUIT IS SPECIFIED, THE CONDUIT SHALL BE CUT AWAY FROM CABLES BETWEEN PULL BOX AND CONTROL STATION.

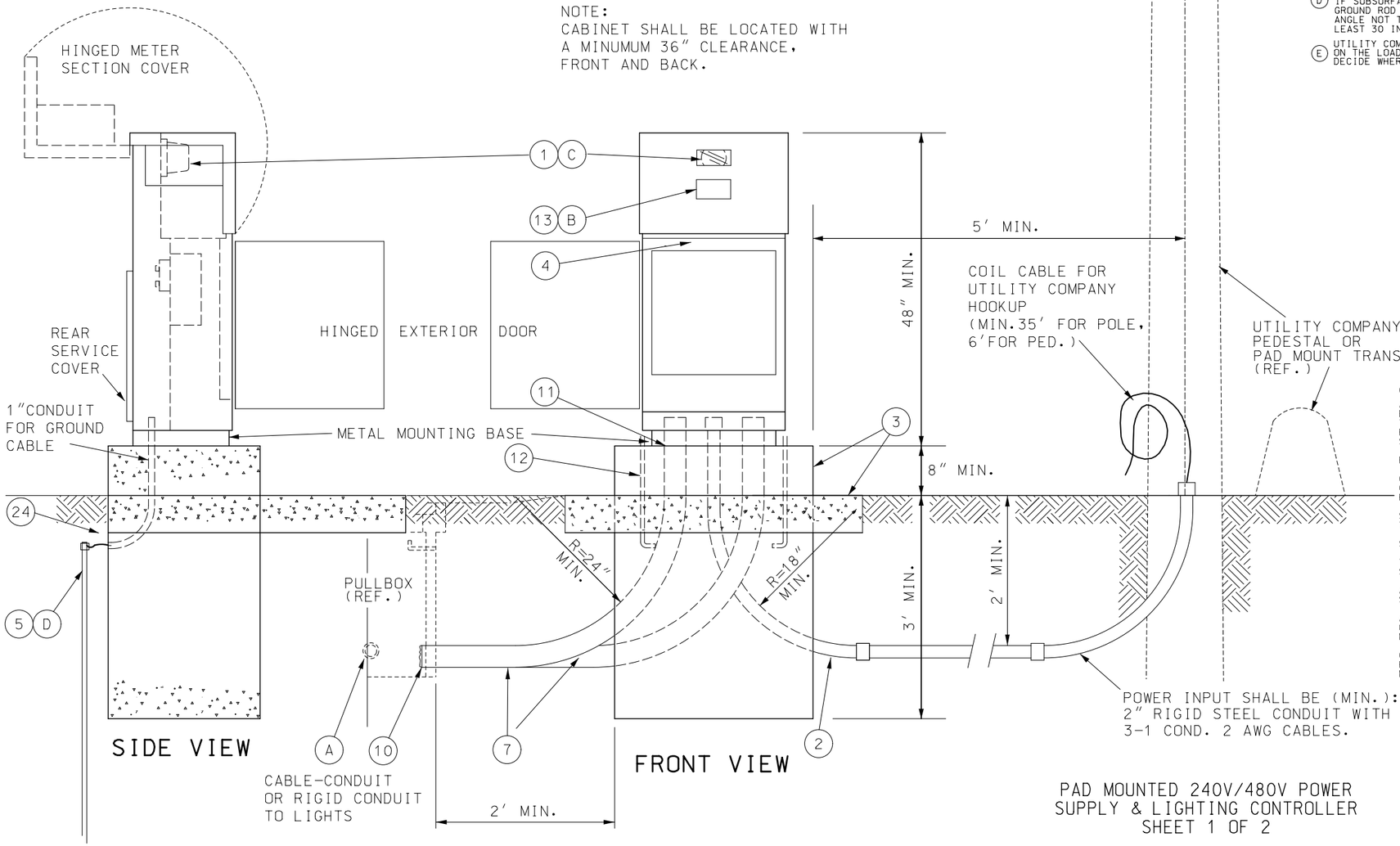
(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.

(C) CONTROLLER CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED, AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(D) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

(E) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTERS ARE TO BE CONNECTED ON THE LOAD OR LINE SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DECIDE WHERE THE LIGHTNING ARRESTER SHALL BE MOUNTED.

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SIDE VIEW

FRONT VIEW

GENERAL NOTES:

ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.

PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.

CABINET SHALL BE LOCATED AWAY FROM TRAFFIC. TOP MOUNT PHOTO CONTROL SHALL FACE AN OPEN SKY. SIDE MOUNT PHOTO CONTROL SHALL FACE NORTH.

SEE PLANS FOR CIRCUIT WIRING; MAXIMUM LOADING PER CIRCUIT IS 7,400 WATTS FOR 240 VOLT AND 11,000 WATTS FOR 480 VOLT.

SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.

THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.

ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.

ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'COMBINATION BASE MOUNTED POWER SUPPLY AND LIGHTING CONTROL STATION'.

CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN PRICE BID FOR 'COMBINATION BASE MOUNTED POWER SUPPLY AND CONTROL STATION'.

PAD MOUNTED 240V/480V POWER SUPPLY & LIGHTING CONTROLLER
SHEET 1 OF 2

ROUTE D
LIGHTING AND ITS
SHEET 17 OF 27

STATE OF MISSOURI
CASSANDRA MCKEE LEE
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07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	139

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ST. LOUIS

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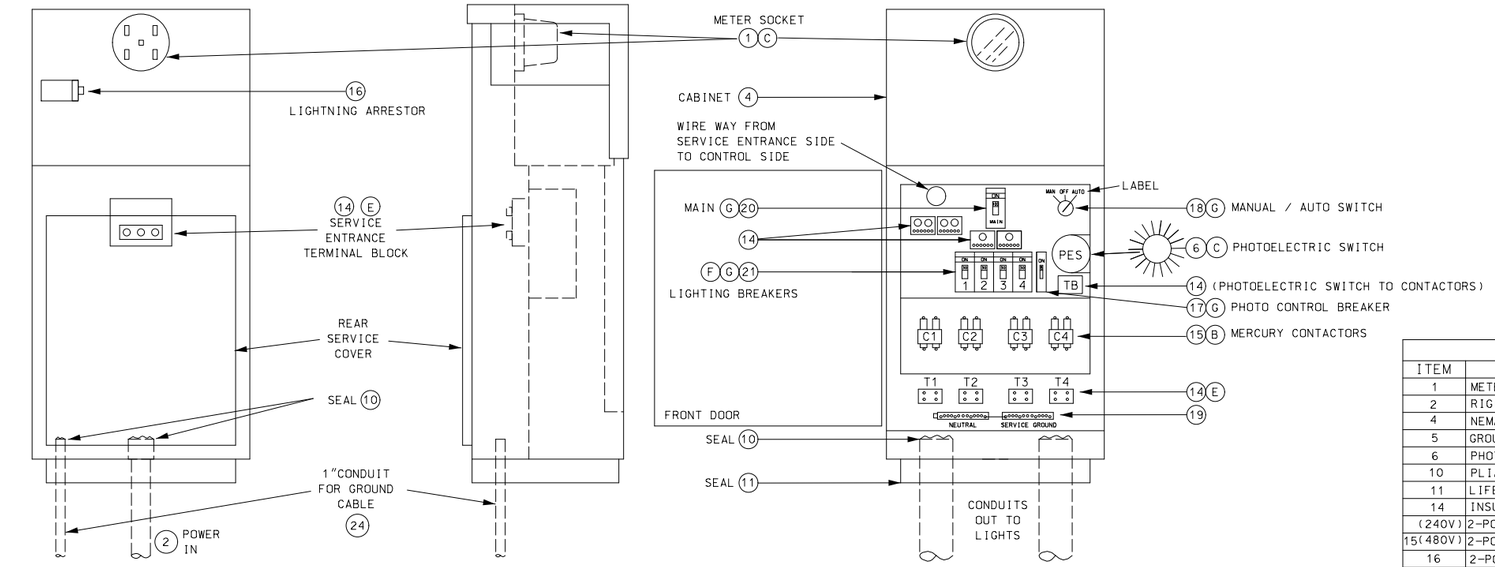
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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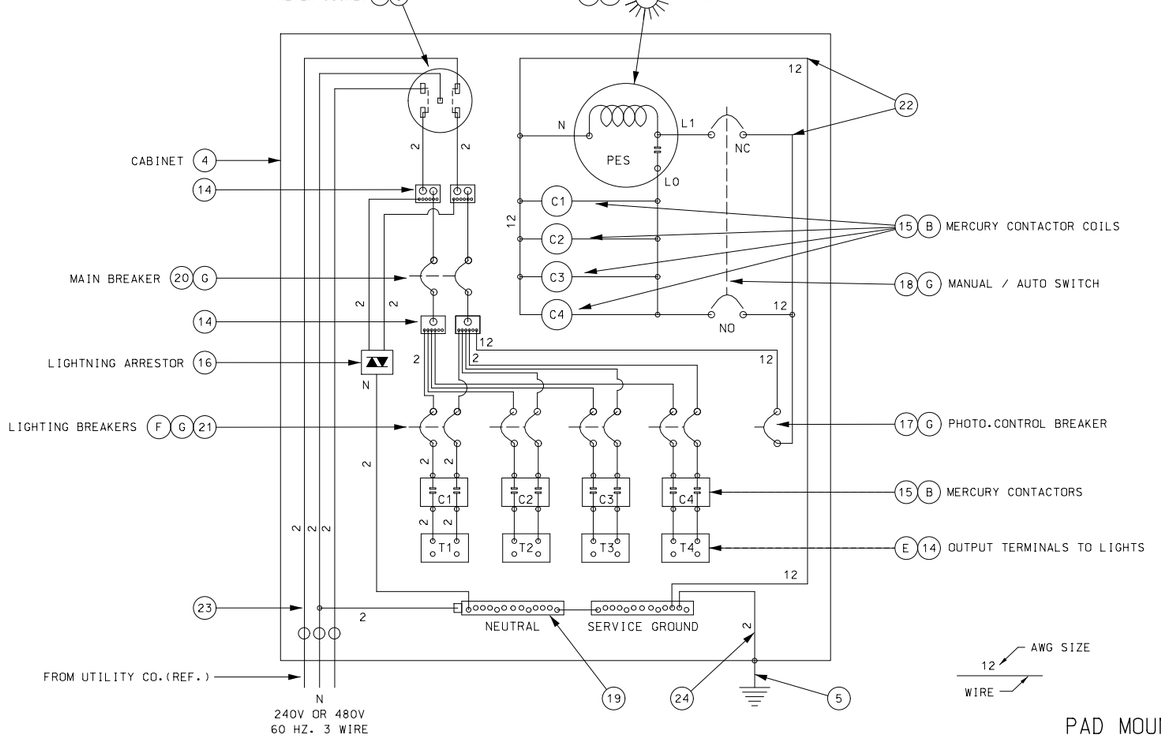
REAR VIEW (SERVICE ENTRANCE)

SIDE VIEW

FRONT VIEW (CONTROL SIDE)

EQUIPMENT LAYOUT

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN.(MIN.8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
14	INSULATED TERMINAL BLOCK
(240V)	2-POLE, 35 AMP, 120V COIL LIGHTING CONTACTOR (MERCURY)
15(480V)	2-POLE, 35 AMP, 240V COIL LIGHTING CONTACTOR (MERCURY)
16	2-POLE, 650 VOLT LIGHTING ARRESTER
15 17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, 100 AMP, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP(MIN), TYPE A LIGHTING BREAKERS
22	#12 AWG MIN., 600 V. CONTROL CABLE
23	#2 AWG MIN., 600 V. * POWER CABLE
24	#2 AWG MIN., 600 V. GROUND CABLE
*	SEE PLANS FOR SIZE



WIRING DIAGRAM

NOTES

(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.

(C) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) LIGHTING BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	480V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0 - 5500
20	2850-3700	5550 - 7400
25	3750-4600	7450 - 9200
30	4650-5500	9250 - 11,000
35	5550-6500	--
40	6550-7400	--

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

PAD MOUNTED 240V/480V POWER SUPPLY & LIGHTING CONTROLLER
SHEET 2 OF 2

ROUTE D

LIGHTING AND ITS
SHEET 18 OF 27

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PROJECT NO. .

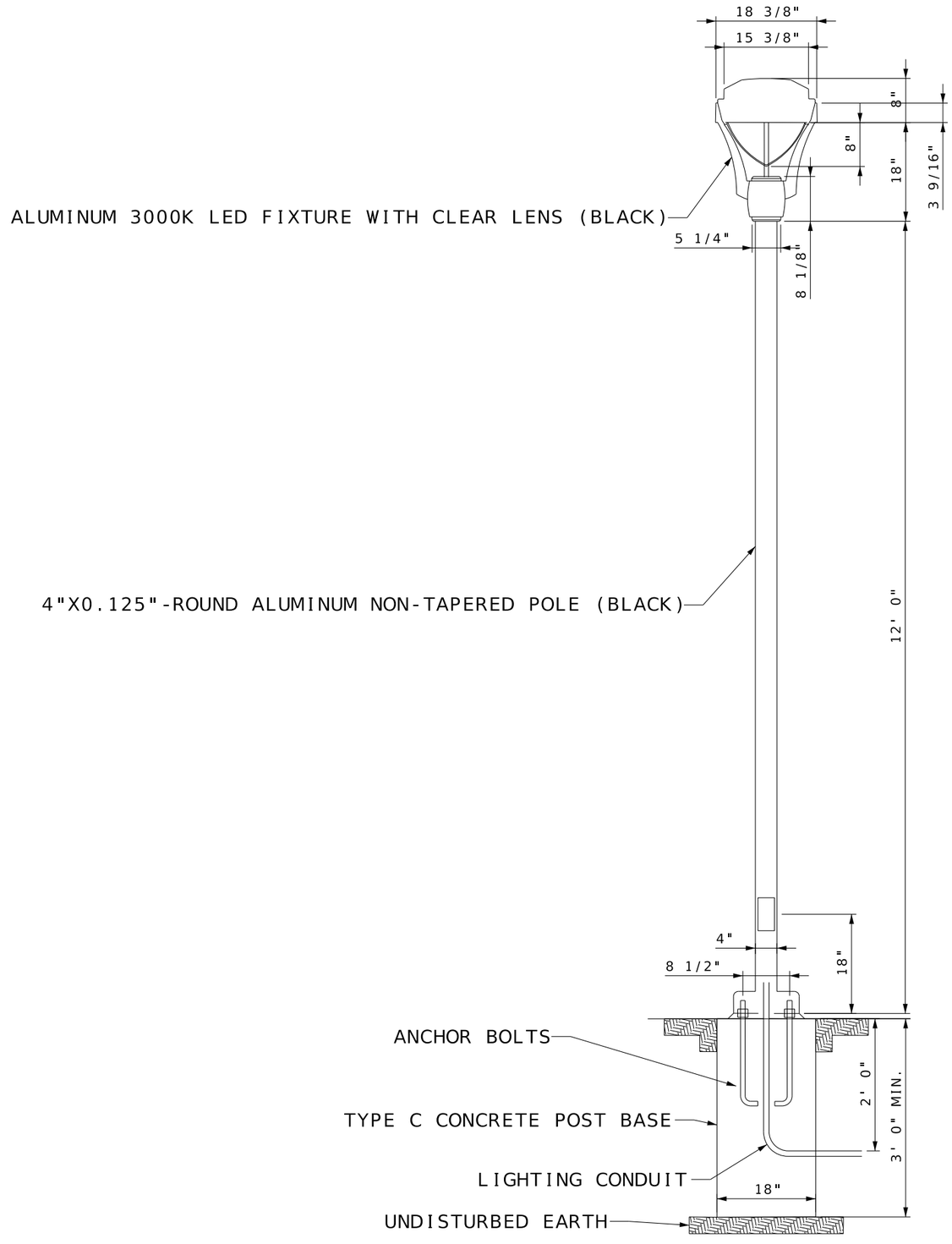
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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PEDESTRIAN LIGHT FIXTURE

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	141

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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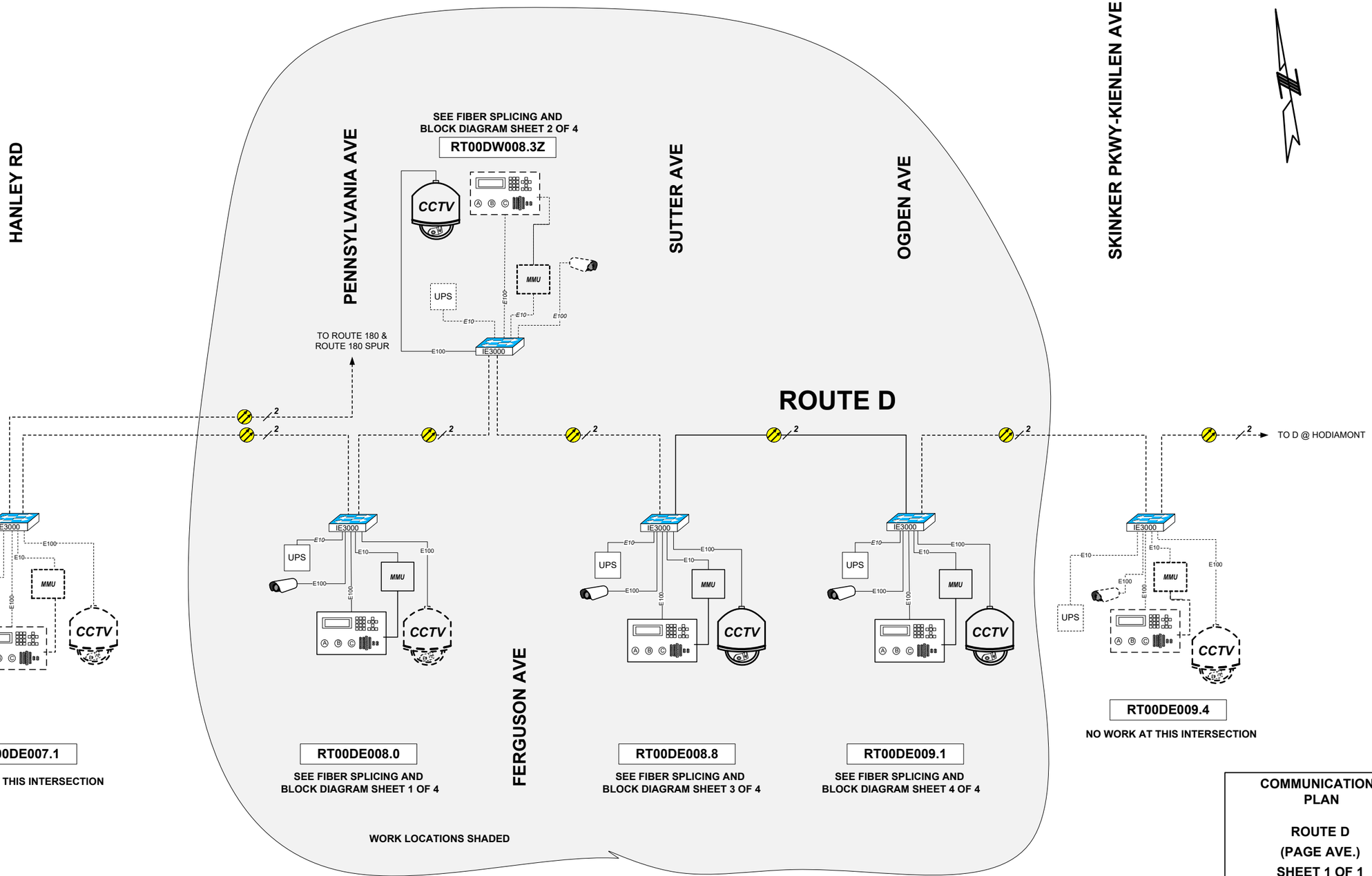
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ROUTE D
LIGHTING AND ITS
SHEET 19 OF 27



RT055E001.8T — DEVICE IDENTIFIER

CCTV CCTV — EXISTING/ PROPOSED CCTV CAMERA

DMS — EXISTING DYNAMIC MESSAGE SIGN

5505 5505 — EXISTING/PROPOSED CISCO ASA5505

IE3000 — EXISTING CISCO IE3000 SWITCH

EXISTING TRAFFIC SIGNAL CONTROLLER

MMU — EXISTING MALFUNCTION MANAGEMENT UNIT

CELL MODEM — EXISTING CELLULAR MODEM

EXISTING WIRELESS ETHERNET BRIDGE

POWER INJECTOR — EXISTING PROJECT INJECTOR

MC — EXISTING MEDIA CONVERTER

FO DATA MODEM — EXISTING FIBER OPTIC DATA MODEM

E10 — 10 MBPS ETHERNET

E100 — 100 MBPS ETHERNET

EXISTING VIDEO DETECTION SYSTEM

VDS AP — EXISTING SENSYS DETECTION SYSTEM

VD — EXISTING IP VIDEO ENCODER

DEVICE SERVER — EXISTING DEVICE SERVER

EXISTING RADAR DETECTION UNIT

MULTIMODE/ SINGLE MODE FIBER OPTIC CABLE

EXISTING WIRELESS CONNECTION

EXISTING/PROPOSED FUSION SPLICE

EXISTING CABLE

PROPOSED CABLE

DSL MODEM — PROPOSED DSL MODEM

NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN FOR CLARITY. SEE SPLICE DIAGRAMS.

COMMUNICATIONS PLAN

ROUTE D
(PAGE AVE.)
SHEET 1 OF 1

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER
5/19/2025

DATE PREPARED: 2/10/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	142

COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

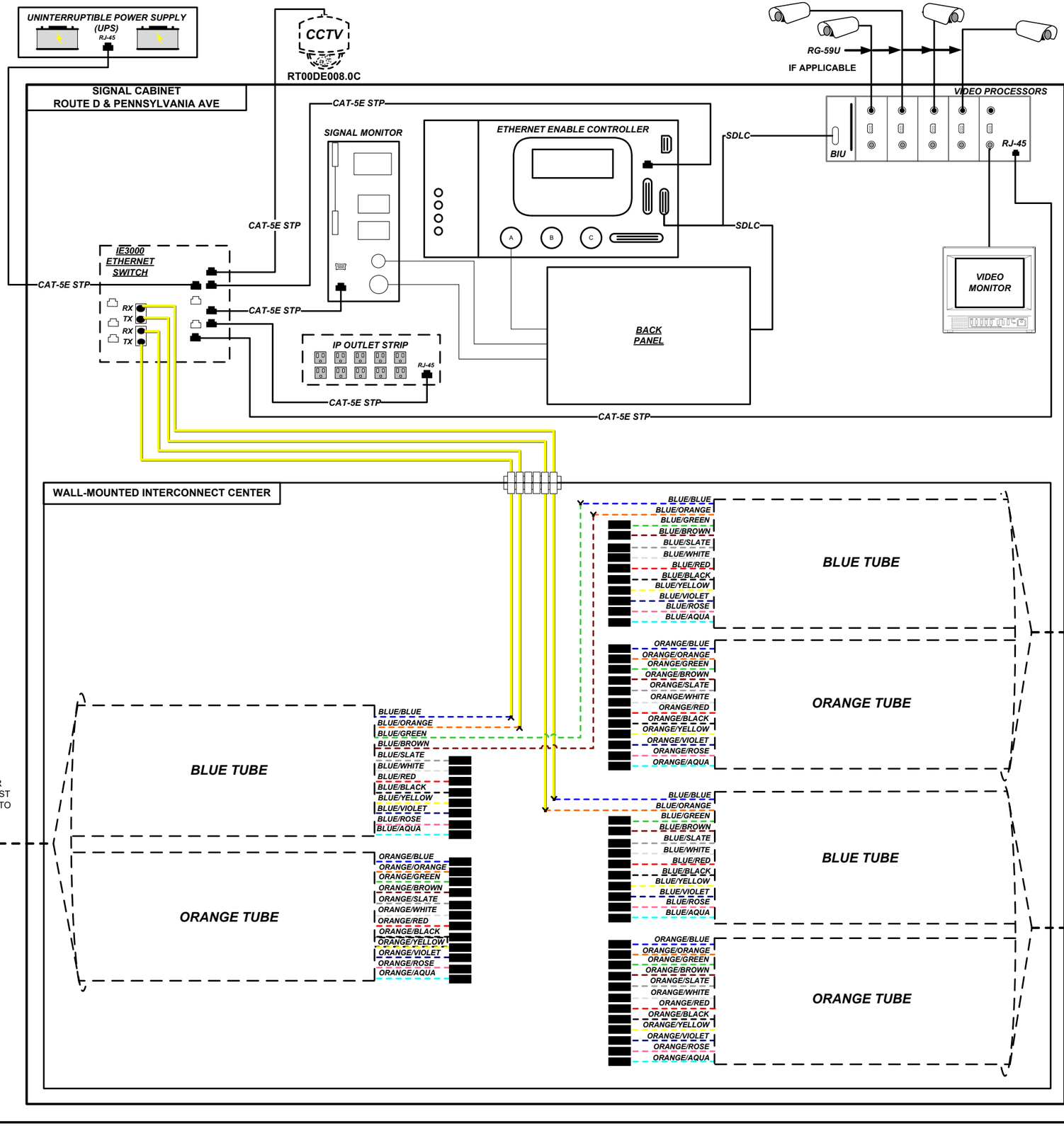
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HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
(816) 472-1201
CERTIFICATION OF AUTHORITY NO. 001270

REV.



KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
× ×	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDSA P	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE D & PENNSYLVANIA AVE
RT00DE008.0

SHEET 1 OF 4

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER
5/19/2025

DATE PREPARED 2/10/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 143
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

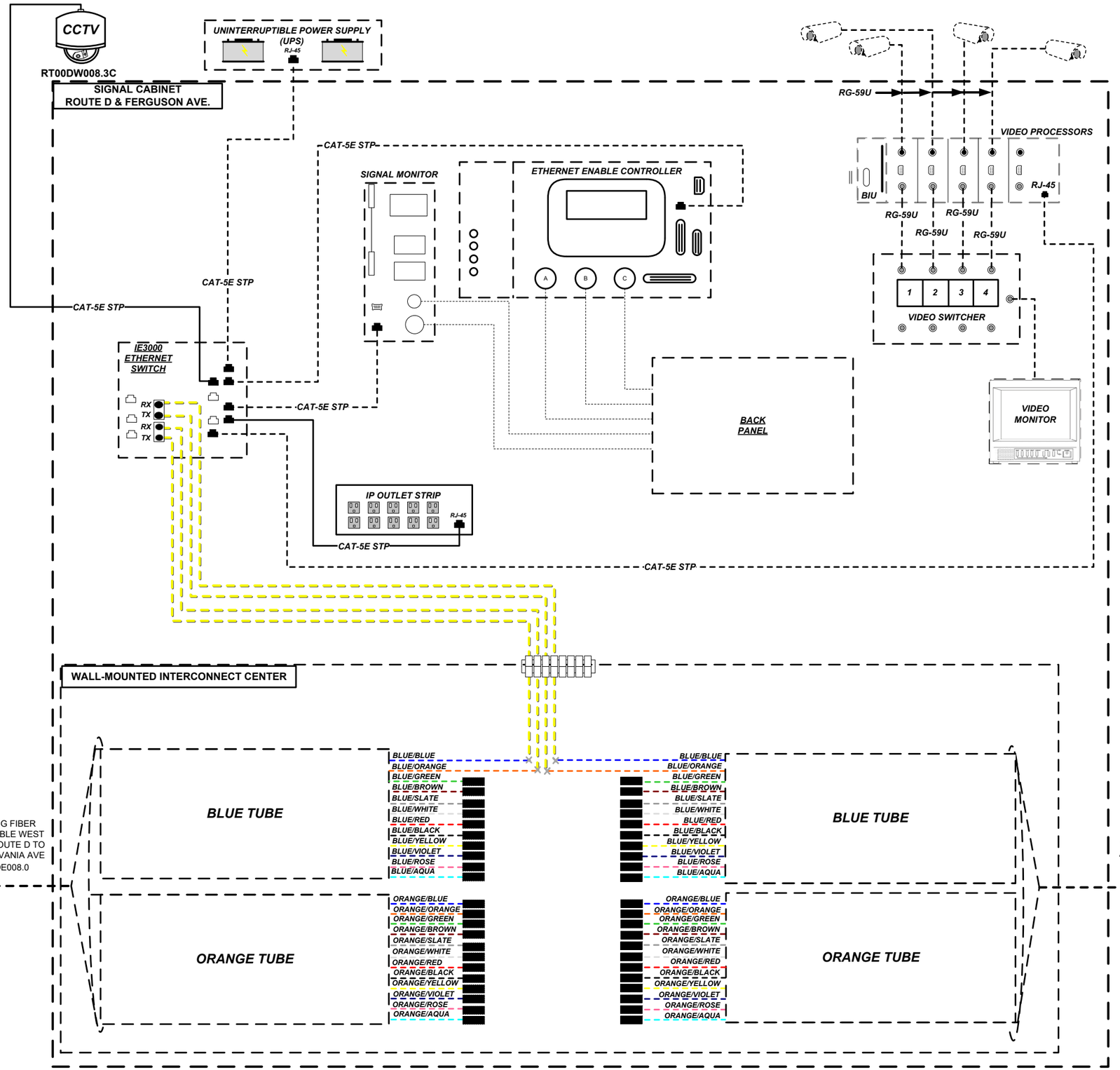
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REV.



KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
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	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
× ×	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDSA P	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
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FIBER SPLICING & BLOCK DIAGRAM

ROUTE D & FERGUSON AVE RT00DW008.3

SHEET 2 OF 4

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER
5/19/2025

DATE PREPARED 2/10/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 144
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

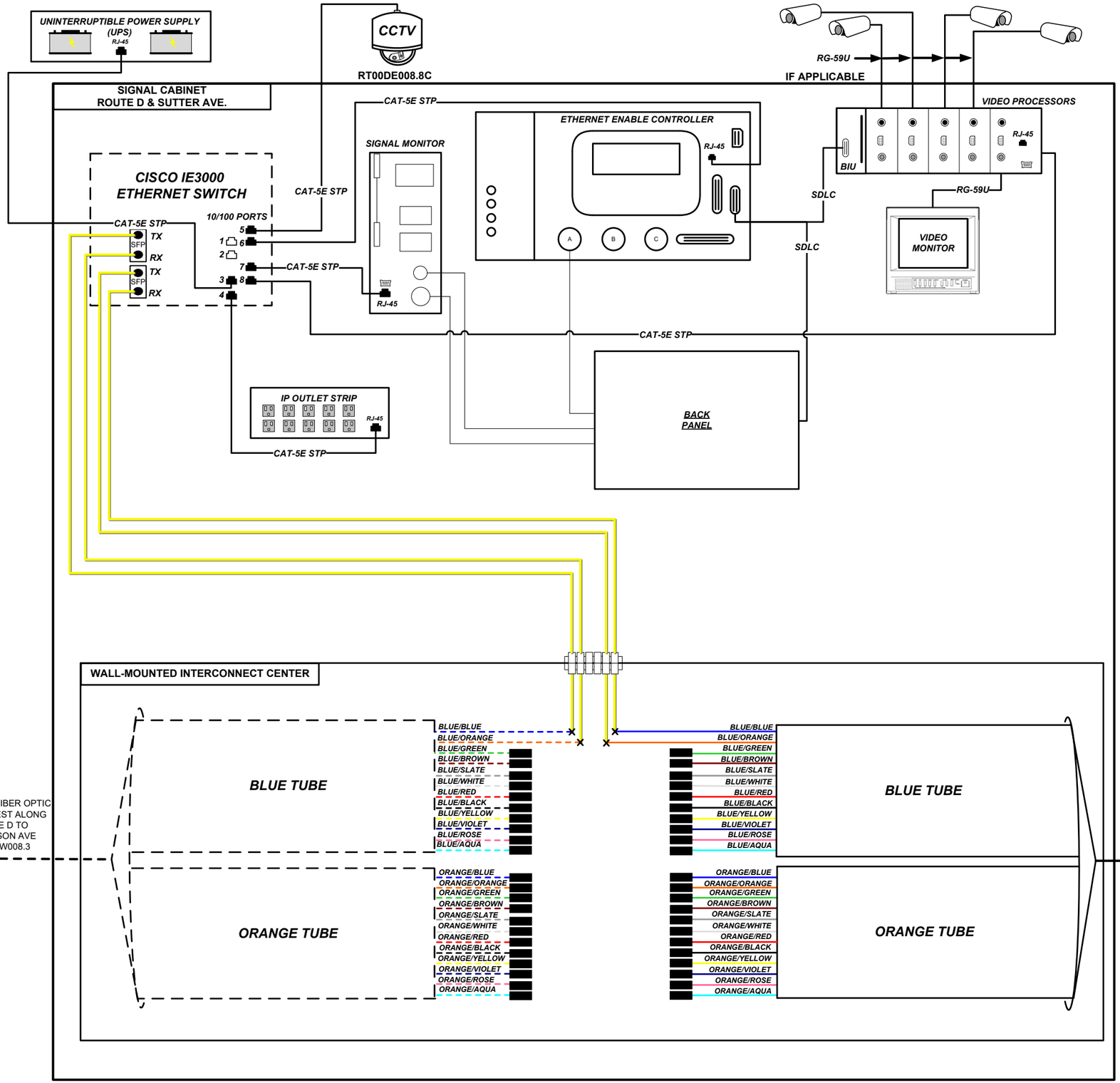
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CERTIFICATION OF AUTHORITY NO. 001270

REV.

J6S3215B_BlockSplice_v1.vsd 2/10/2025



KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
×	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDSA P	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
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4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE D & SUTTER AVE.
RT00DE008.8

SHEET 3 0F 4

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER
5/19/2025

DATE PREPARED 2/10/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 145
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

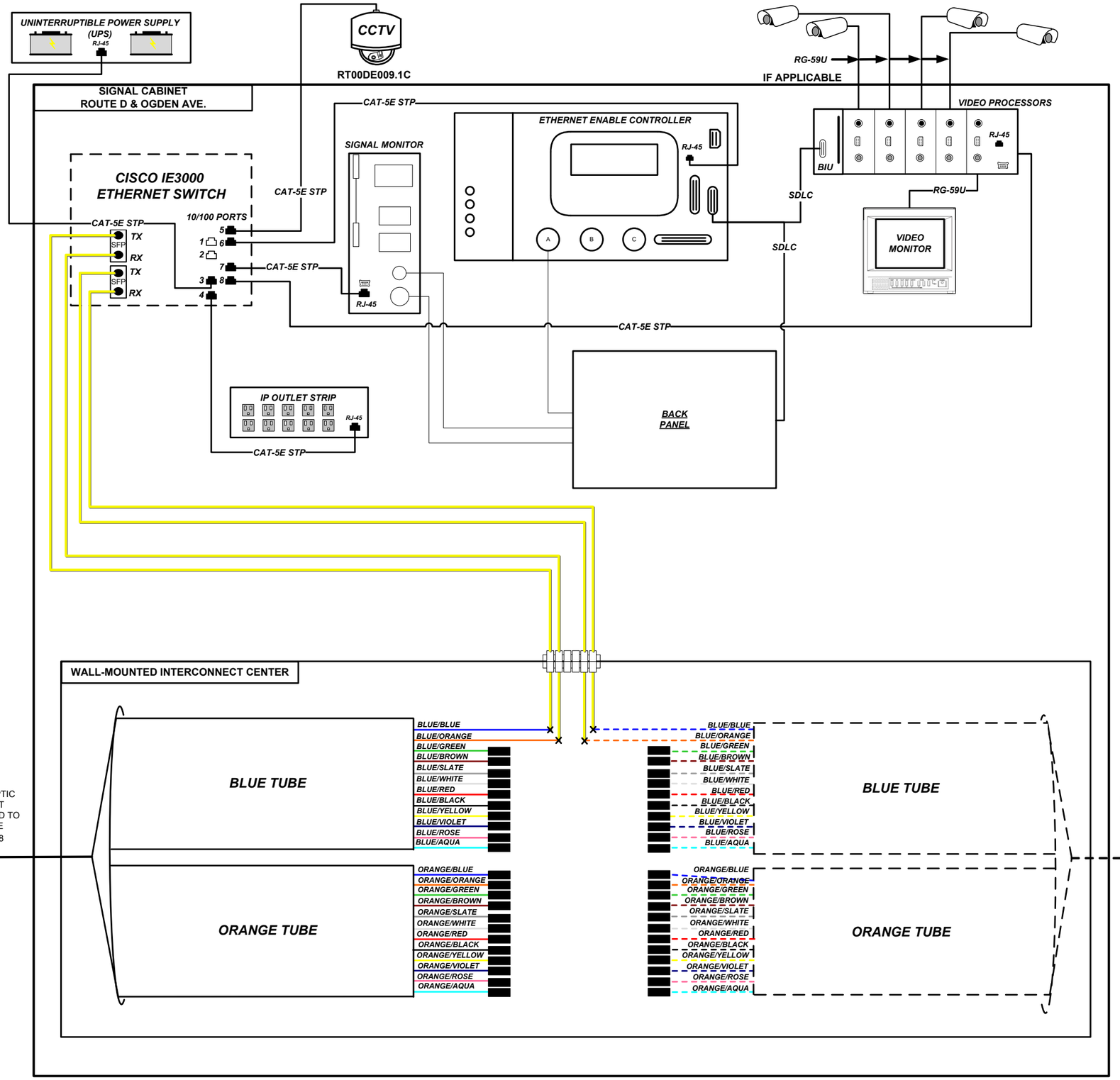
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REV.



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MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
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	RADAR DETECTION UNIT
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	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDSA P	SENSYS DETECTION SYSTEM

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FIBER SPLICING & BLOCK DIAGRAM

ROUTE D & OGDEN AVE.
RT00DE009.1

SHEET 4 0F 4

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER
5/19/2025

DATE PREPARED 2/10/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 146
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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ITS CONDUIT & CABLE

CONDUIT (WITH #10 LOCATOR WIRE)							CABLE (ALL CABLE SHALL CONFORM TO IMSA 20-1 STANDARDS)				
			TRENCHED	PUSHED	STRUCTURE						
FROM	TO	CENTER TO CENTER DISTANCE	2" (LF)	2" (LF)	2" (LF)	REMARKS	FROM	TO	CENTER TO CENTER DISTANCE	FIBER, 24 STRAND SM (LF)	REMARKS
PENNSYLVANIA SIGNAL CONTROLLER	STA. 100+07.77, 38.46' RT	11	14				SUTTER SIGNAL CONTROLLER	OGDEN SIGNAL CONTROLLER	1748	1914	INCLUDES SLACK
ITS-1	ITS-2	80		78							
ITS-2	SUTTER SIGNAL CONTROLLER	18	21								
ITS-2	EXIST. SUTTER ITS PB	135		133							
STA 145+03.36, 40.33' RT	STA. 150+25.00, 40.34' RT	134			134						
OGDEN SIGNAL CONTROLLER	STA. 156+37.20, 34.14' RT	4	7								
							SUB TOTAL			1914	
TOTAL			42	211	134		5% FOR SNAKING			2010	
							TOTAL			2010	

NOTE: 60 FT OF FIBER SLACK REQUIRED AT PULL BOX NEAREST SIGNAL CONTROLLERS

ITS NETWORKING EQUIPMENT

LOCATION	WALL-MOUNTED INTERCONNECT CENTER (EA)	SM F.O. PIGTAIL (EA)	SM F.O. JUMPER (EA)	SM F.O. FUSION SPLICE (EA)	RELOCATE COMMUNICATION EQUIPMENT (EA)	INSTALL MODOT FURNISHED IP-ADDRESSABLE POWER STRIP (EA)	REMARKS
PENNSYLVANIA AVE INTERSECTION	1	4	4	6	1	1	
SUTTER AVE INTERSECTION	1	4	4	4	1	1	
OGDEN AVE INTERSECTION	1	4	4	4	1	1	
TOTAL	3	12	12	14	3	3	

NOTE: SEE SIGNAL SHEETS FOR CCTV CAMERA QUANTITIES

ITS PULL BOXES

	LOCATION						DRAIN TYPE		
ITS PULL BOX NUMBER	ROADWAY	STATION	OFFSET	INTERCEPT CONDUIT WITH PULL BOX (EA)	INSTALL CONDUIT INTO EXISTING BOX (EA)	ITS PULL BOX WITH CONCRETE PAD, PREFORMED CLASS 5 (EA)	I	II	
								A	B	C
EXIST. PENNSYLVANIA	RTE D	100+07.77	38.46' RT		1					
ITS-1	RTE D	138+92.05	28.90' RT	1		1	1			
ITS-2	RTE D	139+44.00	32.33' LT			1	1			
EXIST. SUTTER	RTE D	140+47.27	54.7' RT		1					
EXIST. OGDEN	RTE D	156+37.20	34.14' RT		1					
TOTAL				1	3	2				

NOTE: SEE ADJUST TO GRADE SCHEDULE FOR PULL BOX ADJUSTMENTS

ITS ASSET MANAGEMENT TOOL

TOTAL	1 LUMP SUM

MODOT ITS ASSETS RELOCATION

TOTAL	500 LF

FOR USE AS DIRECTED BY THE ENGINEER

REMOVAL OF EXISTING FIBER OPTIC CABLE

TOTAL	1 LUMP SUM

CONDUIT REPAIR

TOTAL	100 LF

FOR USE AS DIRECTED BY THE ENGINEER

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	147

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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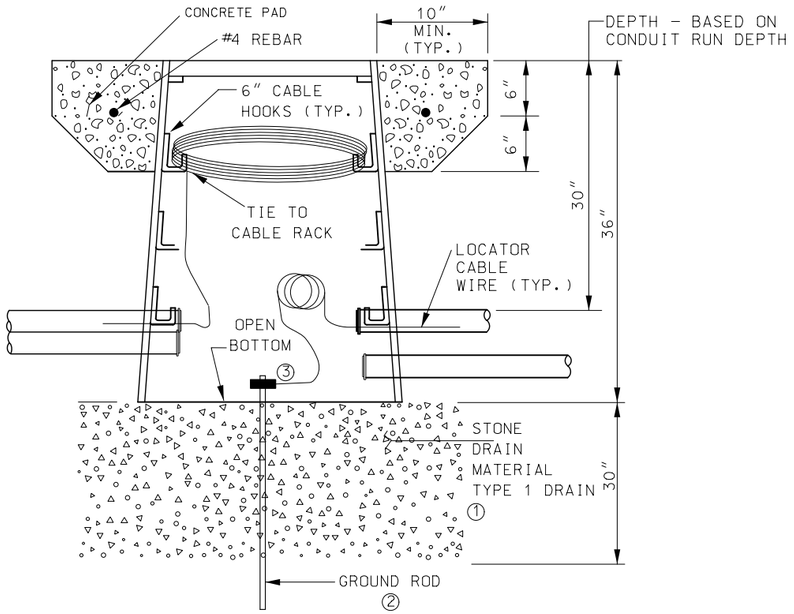
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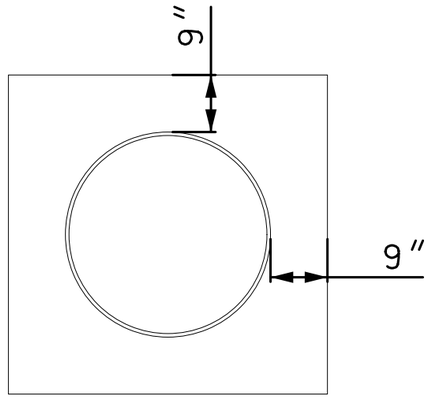
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ROUTE D
LIGHTING AND ITS
SHEET 25 OF 27



ELEVATION

1. PROVIDE TYPE II DRAIN AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 902.20 FOR TYPE II DRAIN DETAILS.
2. GROUND ROD ONLY REQUIRED IN PULL BOX NEAREST TO AN ITS OR SIGNAL CABINET.
3. IN THE PULL BOX NEAREST THE ITS OR SIGNAL CABINET, CONNECT THE TRACER WIRE TO A GROUND ROD CLAMP AND PROVIDE 5 FEET OF SLACK.

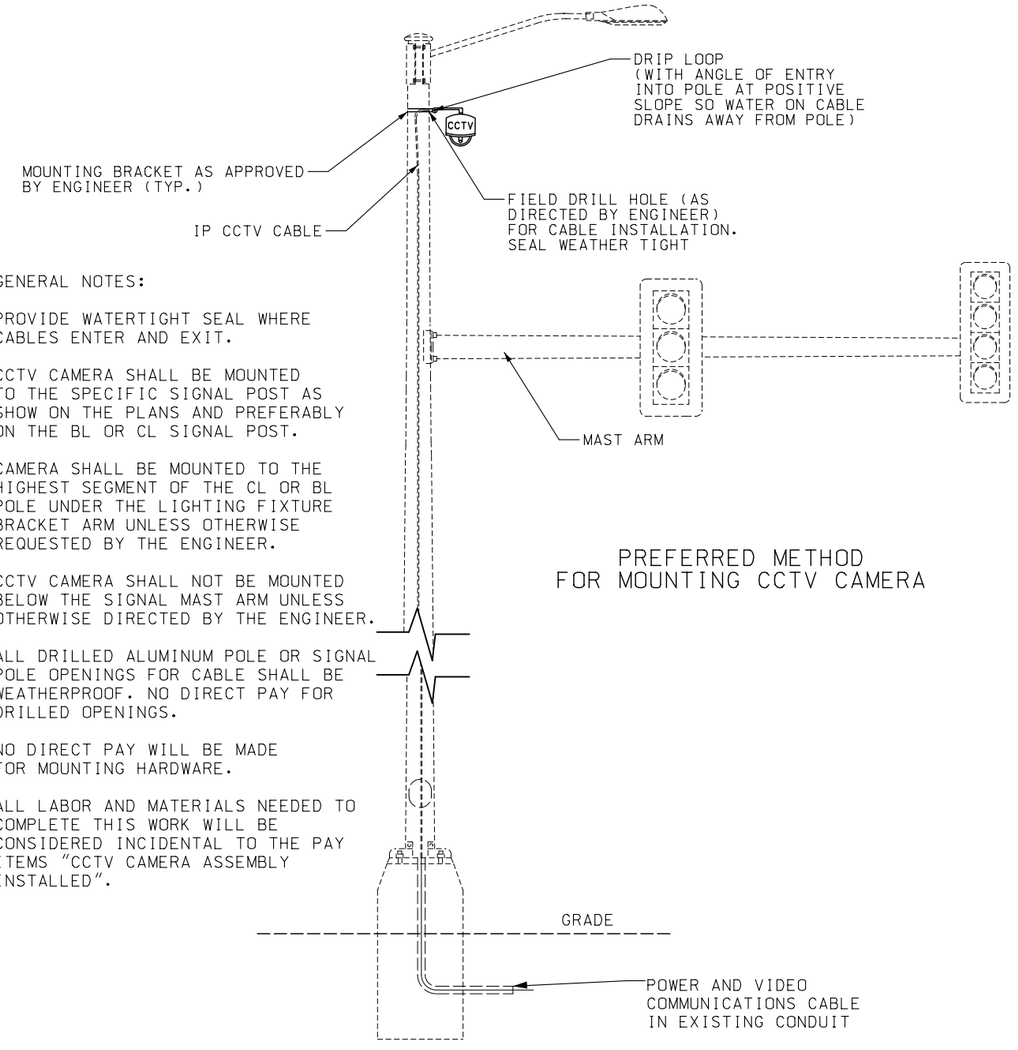


PLAN

CLASS 5 ITS PULLBOX WITH CONCRETE PAD

FOR PULL BOX DIMENSIONS SEE STANDARD PLAN 902.20

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PREFERRED METHOD
FOR MOUNTING CCTV CAMERA

GENERAL NOTES:

PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.

CCTV CAMERA SHALL BE MOUNTED TO THE SPECIFIC SIGNAL POST AS SHOW ON THE PLANS AND PREFERABLY ON THE BL OR CL SIGNAL POST.

CAMERA SHALL BE MOUNTED TO THE HIGHEST SEGMENT OF THE CL OR BL POLE UNDER THE LIGHTING FIXTURE BRACKET ARM UNLESS OTHERWISE REQUESTED BY THE ENGINEER.

CCTV CAMERA SHALL NOT BE MOUNTED BELOW THE SIGNAL MAST ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY INSTALLED".

NOT TO SCALE

CCTV MOUNTING ON NEW OR EXISTING CL OR BL SIGNAL POST WITH LUMINAIRE

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	148

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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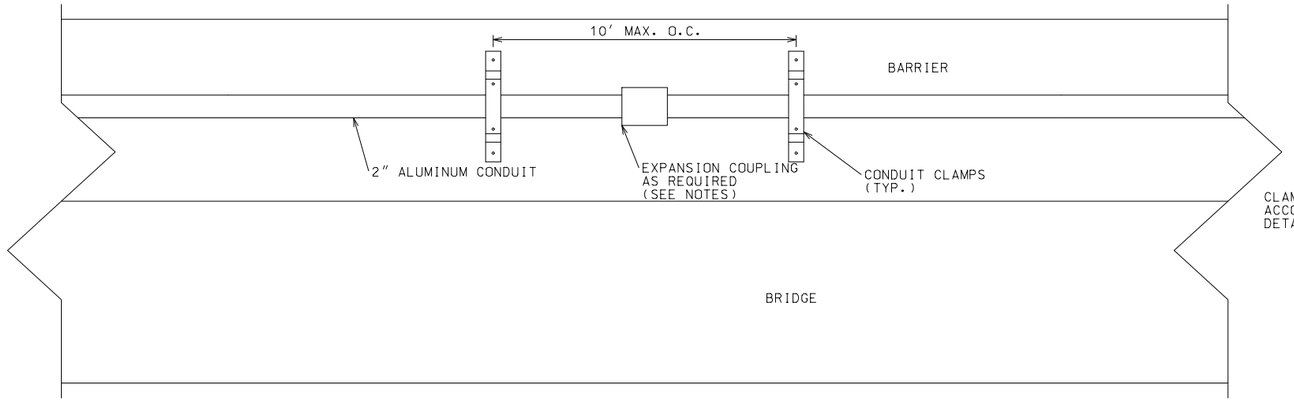
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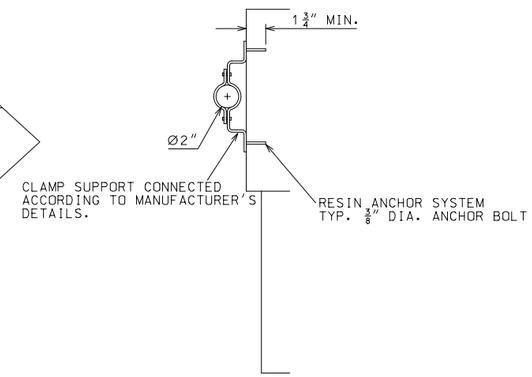
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ROUTE D
LIGHTING AND ITS
SHEET 26 OF 27





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CONDUIT MOUNTING ON OUTSIDE OF BARRIER CURB

GENERAL NOTES:

ALL MAIN CONDUIT SHALL BE 2" RIGID ALUMINUM.

EACH SECTION OF CONDUIT SHALL BEAR THE UNDERWRITER'S LABORATORIES, INC. (UL) LABEL.

CONCRETE ANCHORS FOR CONDUIT CLAMPS SHALL BE NON-DRILLING EXPANSION TYPE FOR 3/8 " BOLTS. ANCHORS FOR BRACKETS SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS 1 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-153, B695-91 CLASS 50 OR SHALL BE STAINLESS STEEL. ANCHORS SHALL HAVE A CERTIFIED CONCRETE PULLOUT STRENGTH (ULTIMATE LOAD) OF 10,200 POUNDS IN 3,000psi CONCRETE. THE SUPPLIER SHALL BE REQUIRED TO FURNISH A MANUFACTURER'S CERTIFICATION THAT THE CONCRETE ANCHORS MEET THE REQUIRED MATERIAL AND GALVANIZING SPECIFICATIONS.

HOLES FOR CONCRETE ANCHORS SHALL BE PRE-DRILLED WITH A CONVENTIONAL CARBIDE MASONRY BIT. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1 3/4 ." LOCATE REINFORCEMENT IN CONCRETE WITH A PACHOMETER AND EXERCISE EXTREME CAUTION DURING DRILLING.

ALL MOUNTING BOLTS SHALL BE STAINLESS STEEL.

EXPANSION COUPLINGS SHALL BE INSTALLED ALONG THE 2" CONDUIT AT ALL JOINTS IN THE CONCRETE, HALFWAY BETWEEN GIRDERS, OR HALFWAY ALONG BRIDGE. COUPLINGS SHALL PROVIDE A MINIMUM MOVEMENT OF 2" IN EITHER DIRECTION. EXPANSION COUPLINGS SHALL BE EQUAL TO CARLON ELECTRICAL CONSTRUCTION PRODUCTS OR TRIANGLE CONDUIT AND CABLE COMPANY, INC.

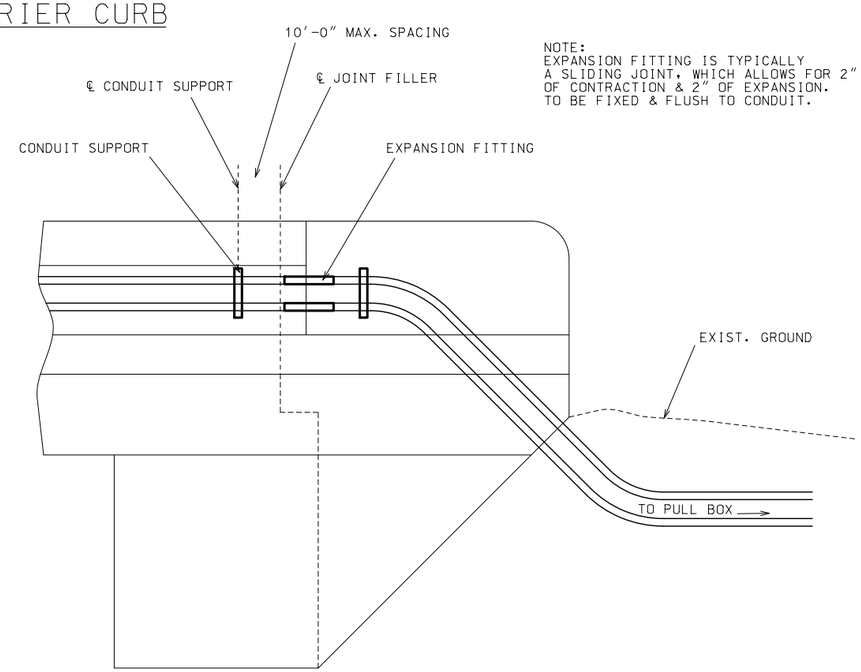
CONDUIT TERMINATIONS SHALL BE SEPARABLE.

ALL TERMINATIONS AND COVERS SHALL BE OF WATERTIGHT CONSTRUCTION.

WEEPHOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE CONDUIT LINES.

ALL JUNCTION BOXES SHALL BE SURFACE MOUNTED. THE COVERS SHALL BE OF WATERTIGHT CONSTRUCTION AND SHALL MEET REQUIREMENTS FOR NEMA 4 ENCLOSURE.

PAYMENT FOR ALL JUNCTION BOXES, CONDUIT, COUPLINGS, ANCHORS, CLAMPS, AND CONNECTIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CONDUIT SYSTEM ON STRUCTURE.



ELEVATION OF CONDUIT SYSTEM

NOTE:
EXPANSION FITTING IS TYPICALLY A SLIDING JOINT, WHICH ALLOWS FOR 2" OF CONTRACTION & 2" OF EXPANSION. TO BE FIXED & FLUSH TO CONDUIT.

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
07/03/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	149

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

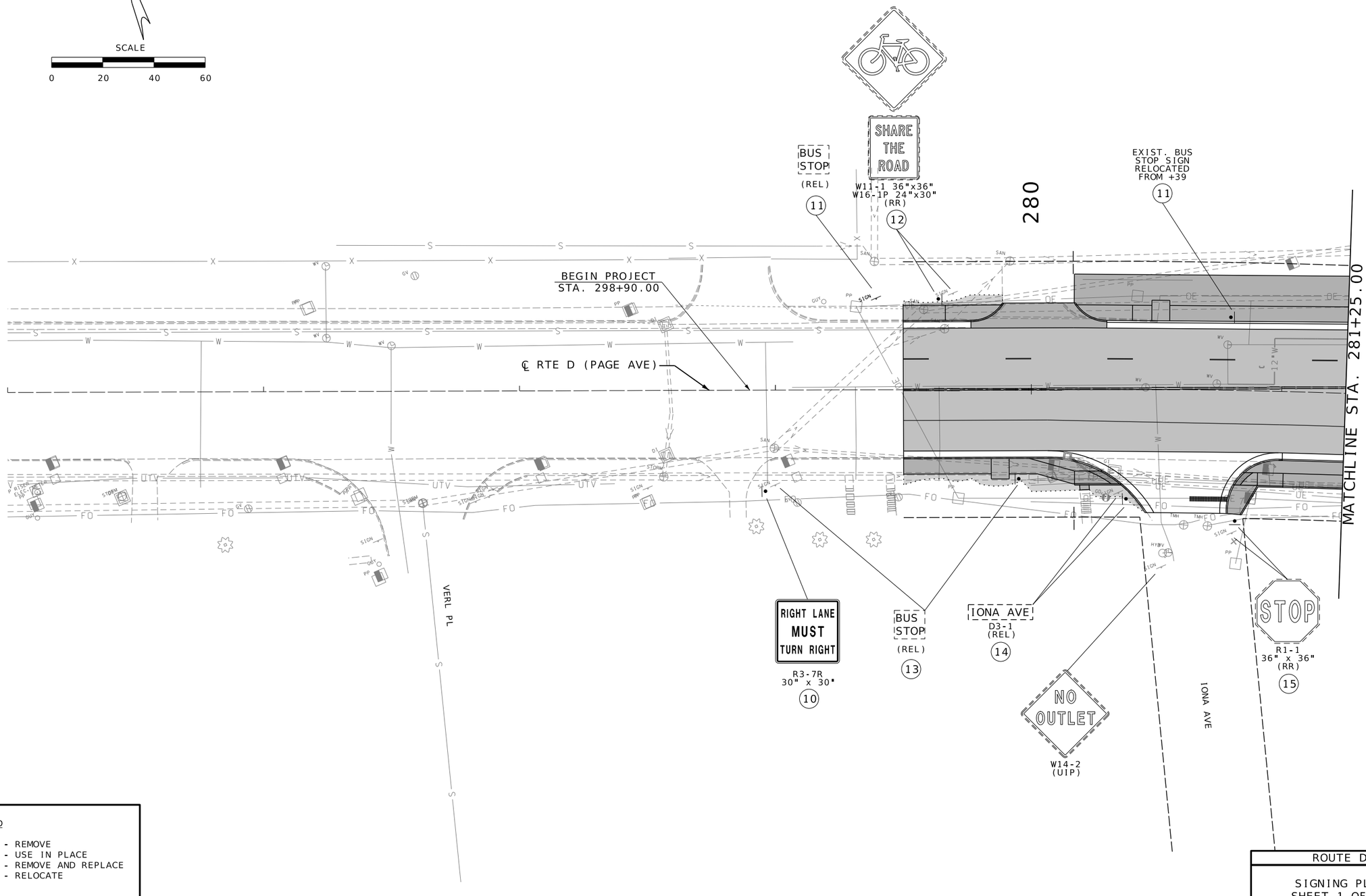
CMT
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CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

ROUTE D
LIGHTING AND ITS
SHEET 27 OF 27

NOTES:
1. SHADED AREAS ARE SHOWN ON THE SIGNING PLANS FOR EXTENTS OF CONSTRUCTION. SEE PLAN SHEETS FOR MORE INFORMATION ON SHADED AREAS.
2. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD AS APPROVED BY THE ENGINEER TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES.

SCALE
0 20 40 60

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LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 1 OF 16

ELENA T. WISE
NUMBER PE-2014015051
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	150

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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BRIDGE NO.

DESCRIPTION

DATE

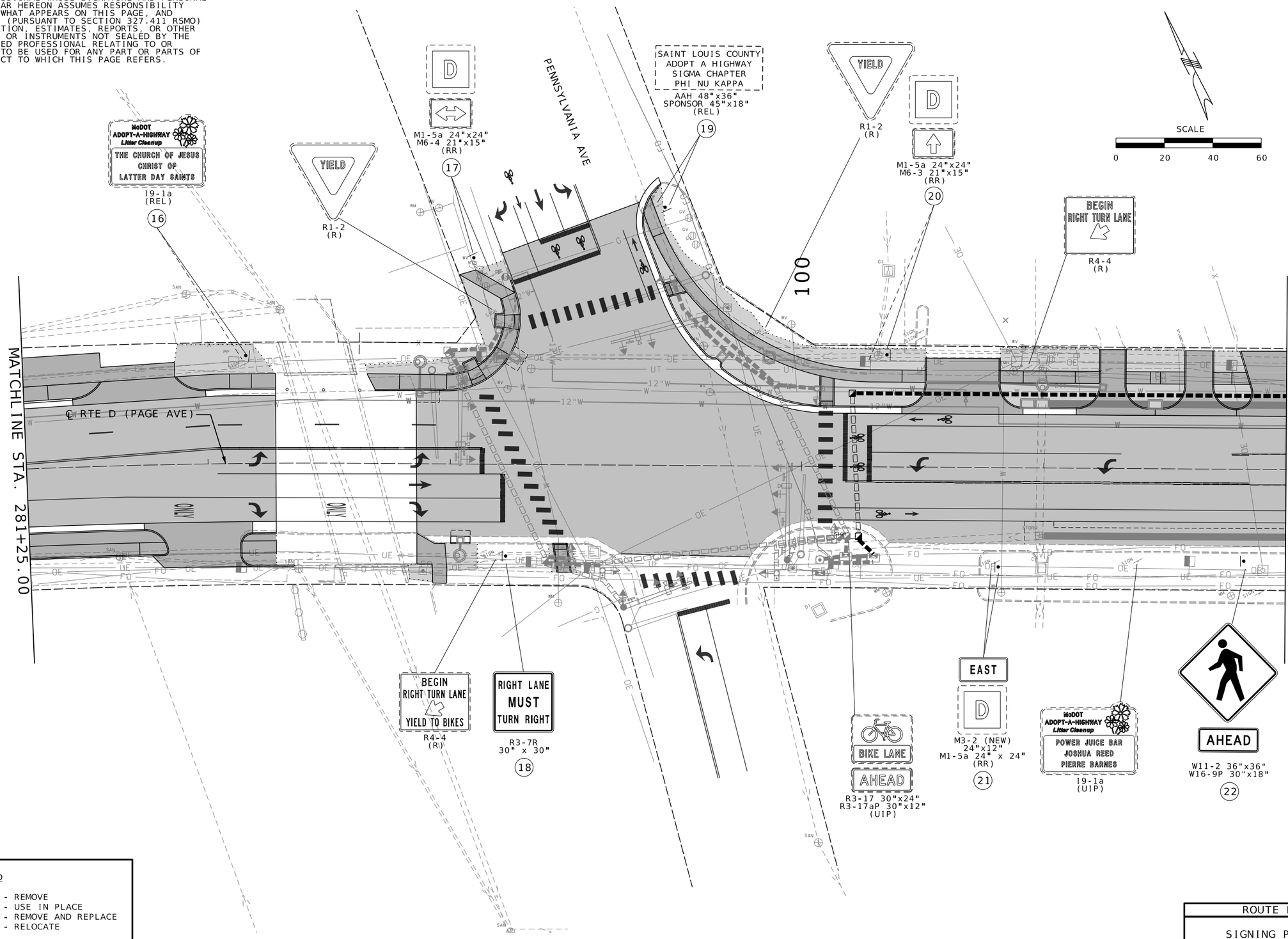
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St. Louis, MO 63110
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(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 2 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

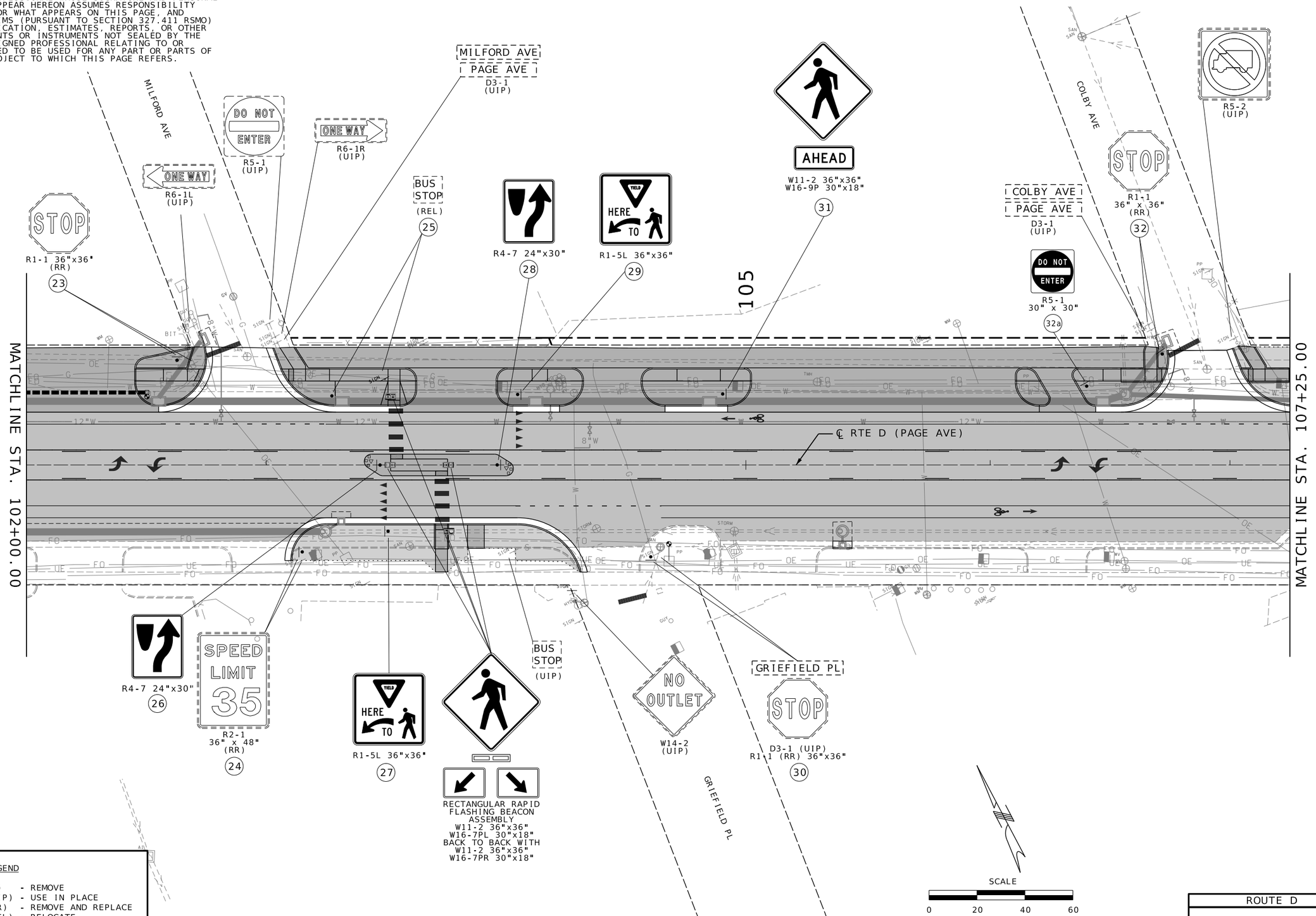
DATE PREPARED	7/3/2025
ROUTE	D
STATE	MO
DISTRICT	SL
SHEET NO.	151
COUNTY	ST. LOUIS
JOB NO.	J6S3215B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

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LEGEND

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(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 3 OF 16

ELENA T. WISE
NUMBER PE-2014015051
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 152
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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SCALE
0 20 40 60

MATCHLINE STA. 107+25.00

℄ RTE D (PAGE AVE)

110

PAGE AVE
LEROY AVE
D3-1
(UIP)

STOP
R1-1
36" x 36"
(RR)
34

LEROY AVE

R5-2
(UIP)

R4-7 24"x30"

BUS STOP
(REL)
36

38

R1-5L 36"x36"
39

MATCHLINE STA. 112+65.00

PURCELL AVE

STOP
NO OUTLET
D3-1
R1-1
W14-2
(UIP)

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
33

PAGE AVE
BUCKNER PL
D3-1
(UIP)

STOP
R1-1
(UIP)

BUCKNER AVE

R1-5L 36"x36"
35

BUS STOP
(UIP)

R4-7 24"x30"
37

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
W11-2 36"x36"
W16-7PL 30"x18"
BACK TO BACK WITH
W11-2 36"x36"
W16-7PR 30"x18"

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 4 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	153

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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PROJECT NO.

BRIDGE NO.

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SCALE
0 20 40 60

MATCHLINE STA. 112+65.00

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
40

S1-1 36"x36"
(RR)
41

115

BIKE LANE
AHEAD
R3-17 30"x24"
R3-17aP 30"x12"
42

FERGUSON AVE

BACK-IN PARKING ONLY
R7-10 12"x18"
44

MATCHLINE STA. 118+00.00

℄ RTE D (PAGE AVE)

STOP
R1-1
(UIP)

BEGIN RIGHT TURN LANE
YIELD TO BIKES
R4-4
(UIP)

BIKE LANE
ENDS
R3-17
R3-17bP
(R)

BIKE ROUTE
D11-1 24"x18"
M6-2PR 12"x9"
43

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 5 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	154

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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SCALE
0 20 40 60

MATCHLINE STA. 118+00.00

MATCHLINE STA. 123+25.00

BELRUE AVE

120

BACK-IN PARKING ONLY
R7-10 12"x18"
45

BACK-IN PARKING ONLY
R7-10 12"x18"
46

STOP
R1-1
36" x 36"
(RR)
47

WEST
D
M3-4 24"x12" (NEW)
M1-5a 24"x24" (RR)
48

℄ RTE D (PAGE AVE)

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 6 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	155

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

5220 Oakland Avenue
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SCALE
0 20 40 60

MATCHLINE STA. 123+25.00

MATCHLINE STA. 128+50.00

WOODRUFF AVE

125

STOP
R1-1
36" x 36"
(RR)
49

WOODRUFF AVE
D3-1
(UIP)

R5-2
(UIP)

SPEED LIMIT 35
R2-1 36"x48"
(RR)
53

℄ RTE D (PAGE AVE)

MoDOT ADOPT-A-HIGHWAY Litter Cleanup
AVAILABLE
888-ASK-MODOT
(R)

NO PARKING ANY TIME
R7-1L
(R)

R5-2 24"x24"
(RR)
50

KINGSLAND AVE

KINGSLAND AVE
PAGE AVE
D3-1
(REL)
51

STOP
R1-1 36"x36"
(RR)
52

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 7 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	156

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DATE

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105 WEST CAPITOL
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SCALE
0 20 40 60

MATCHLINE STA. 128+50.00

MATCHLINE STA. 133+75.00

KINGSLAND AVE
PAGE AVE
D3-1 (REL)
55

STOP
R1-1 36"x36" (RR)
57

KINGSLAND AVE

R4-7 24"x30"
61

BUS STOP (REL)
62

R4-7 24"x30"
64

NO PARKING ANY TIME
R7-1R (R)

YIELD HERE TO
R1-5L 36"x36"
65

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
66

GREGAN PL

STOP
R1-1 (UIP)

PAGE AVE
GREGAN PL
D3-1 (UIP)

NO PARKING ANY TIME
R7-1D (R)

NO PARKING ANY TIME
R7-1L (R)

130

12"W

8"W

℄ RTE D (PAGE AVE)

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
54

NO OUTLET
W14-2 36"x36" (RR)
56

TRIN VEGETATION AT SIGN NO. 58

GRUNER PL

GRUNER PL
PAGE AVE
D3-1 (REL)
59

STOP
R1-1 36"x36" (RR)
58

BUS STOP (REL)
63

YIELD HERE TO
R1-5L 36"x36"
60

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
W11-2 36"x36"
W16-7PL 30"x18"
BACK TO BACK WITH
W11-2 36"x36"
W16-7PR 30"x18"

NO OUTLET
W14-2 36"x36" (RR)
67

GREGAN PL

PAGE AVE
GREGAN PL
D3-1 (REL)
69

STOP
R1-1 36"x36" (RR)
68

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 8 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	157

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

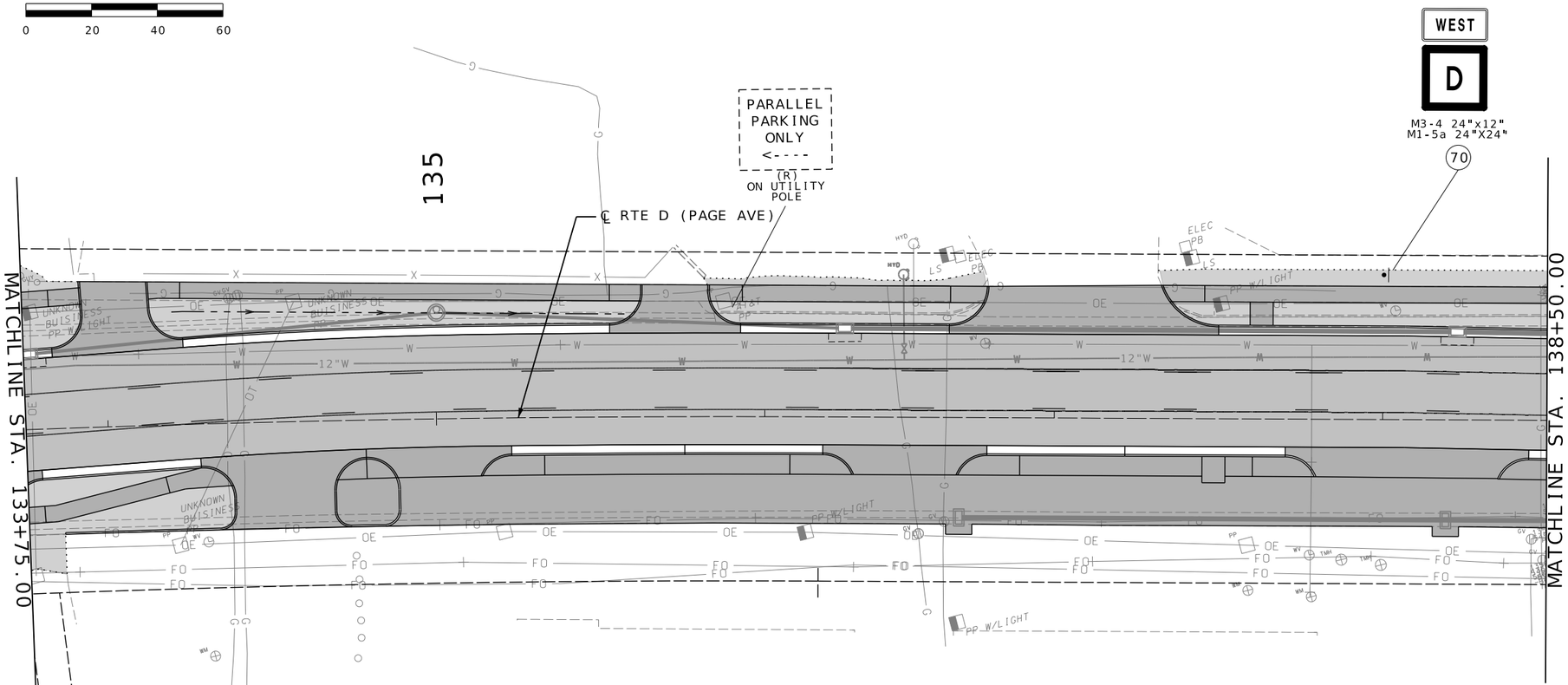
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LEGEND

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(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 9 OF 16

ELENA T. WISE
NUMBER PE-2014015051
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	158

COUNTY
ST. LOUIS

JOB NO.
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CONTRACT ID.

PROJECT NO.

BRIDGE NO.

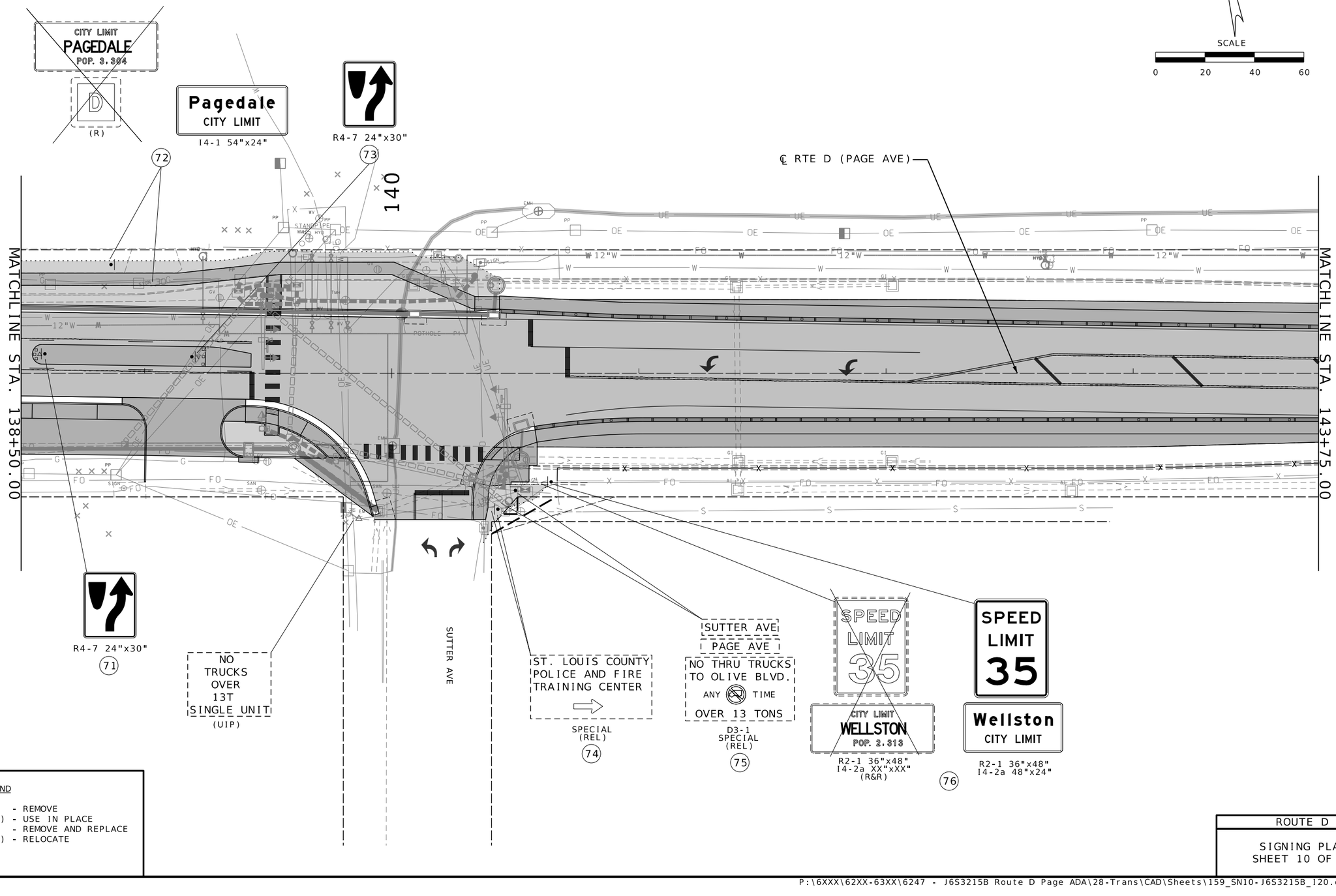
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LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 10 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	159

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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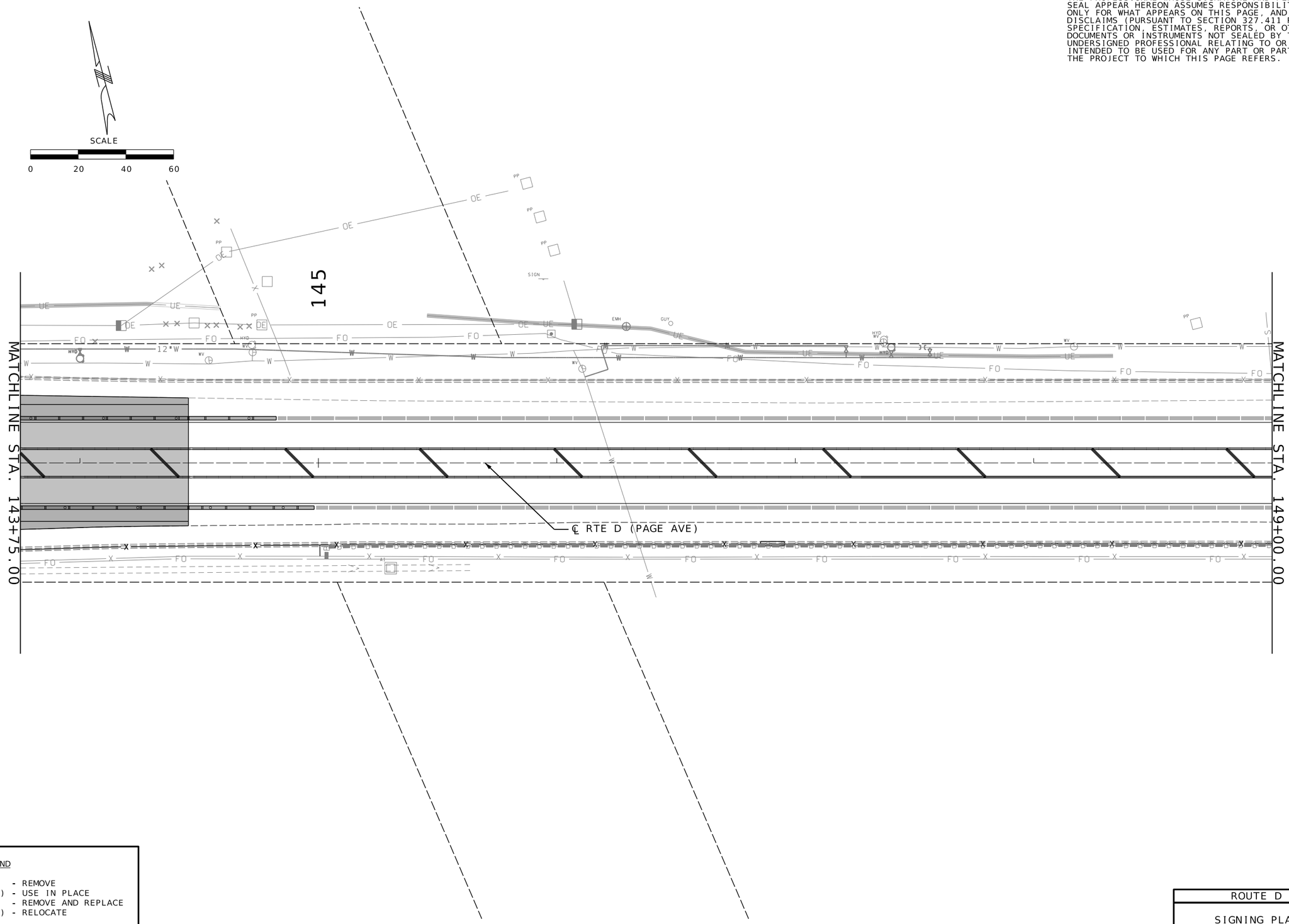
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LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 11 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	160

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

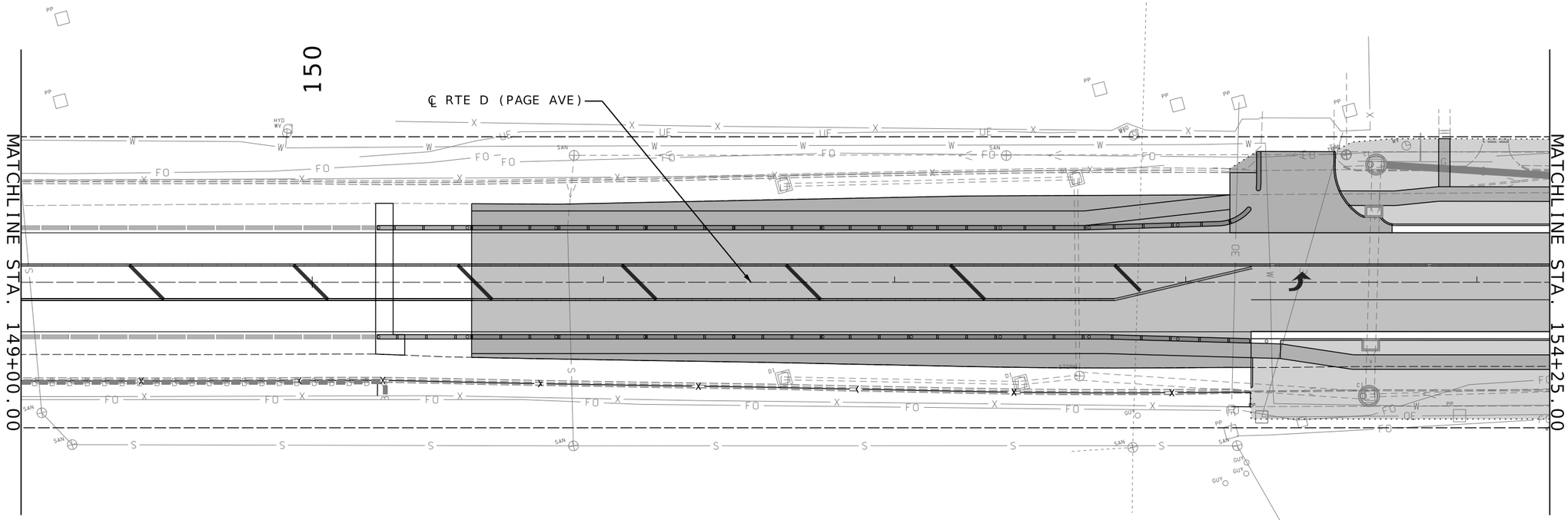
DATE

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
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SCALE
0 20 40 60



LEGEND

(R) - REMOVE
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(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 12 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	161

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

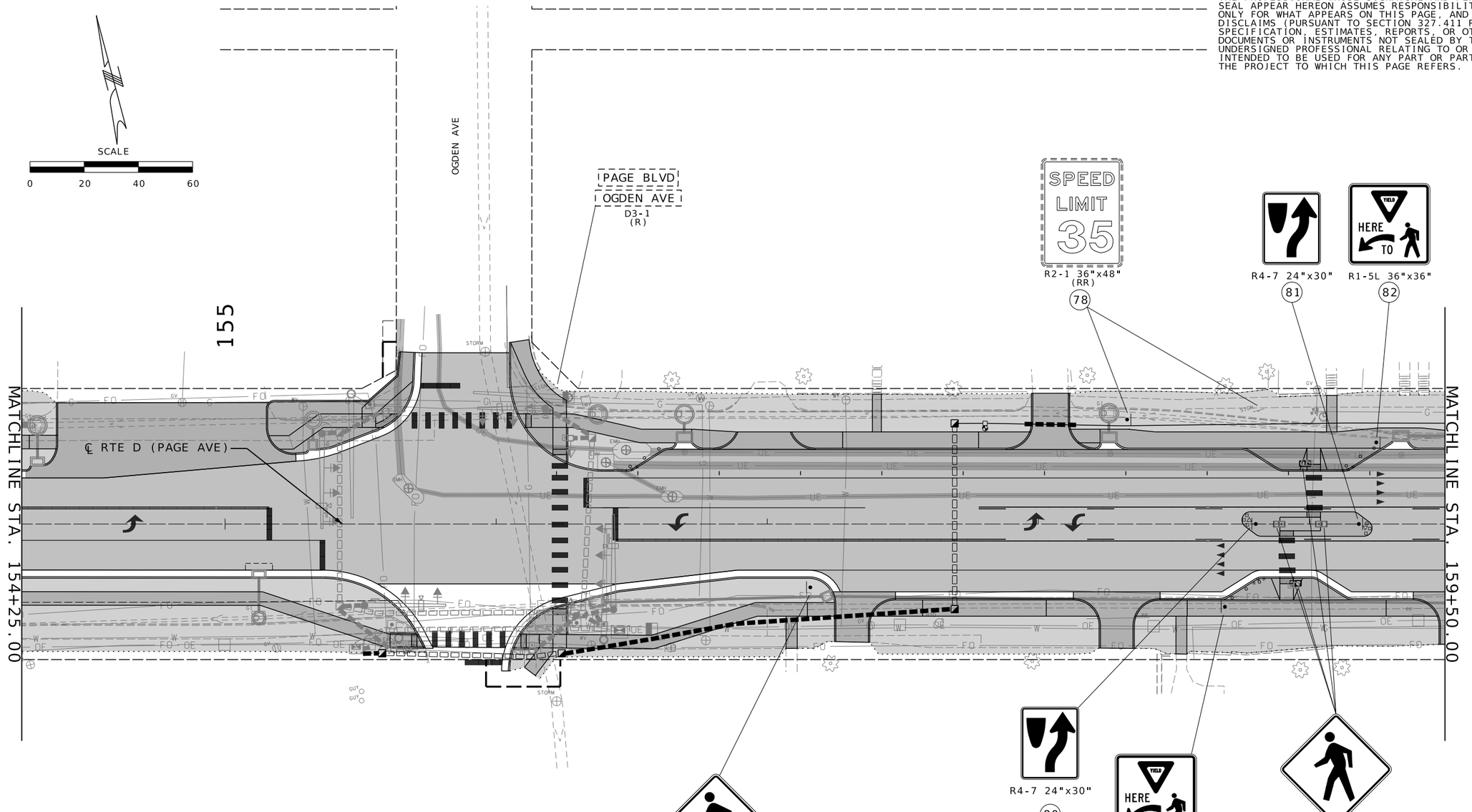
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CIVIL DESIGN,INC.
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P:\6XXX\62XX-63XX\6247 - J6S3215B Route D Page ADA\28-Trans\CAD\Sheets\161_SN12-J6S3215B_I20.dgn 1:55:27 PM 7/3/2025

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LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 13 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	162

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI
CIVIL DESIGN, INC.
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SCALE
0 20 40 60

PAGE AVE
STEPHEN JONES AVE

STOP
D3-1 (UIP)
R1-1 (UIP)

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
83

STEPHEN JONES AVE

160

℄ RTE D (PAGE AVE)

MATCHLINE STA. 159+50.00

MATCHLINE STA. 164+75.00

STOP
R1-1 36"x36"
84

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 14 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	163

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
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SCALE
0 20 40 60

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
W11-2 36"x36"
W16-7PL 30"x18"
BACK TO BACK WITH
W11-2 36"x36"
W16-7PR 30"x18"

R4-7 24"x30"
88

R1-5L 36"x36"
89

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
90

MORTON AVE
STOP
D3-1 (UIP)
R1-1 36"x36" (RR)
92

165

℄ RTE D (PAGE AVE)

MATCHLINE STA. 164+75.00

MATCHLINE STA. 170+00.00

MORTON AVE

PAGE AVE
R.M. MOORE AVE
D3-1
(REL)
91

MORTON AVE

STOP
R1-1 36"x36"
(RR)
93

AHEAD
W11-2 36"x36"
W16-9P 30"x18"
85

R1-5L 36"x36"
86

R4-7 24"x30"
87

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
W11-2 36"x36"
W16-7PL 30"x18"
BACK TO BACK WITH
W11-2 36"x36"
W16-7PR 30"x18"

LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 15 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	164

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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

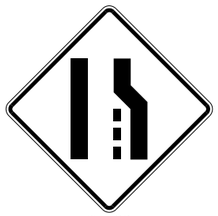
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St. Louis, MO 63110
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Missouri State Certificate of Authority #2002006804

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W11-1 36"x36"
W16-1P 24"x30"
94

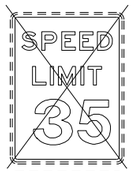

W4-2R
48"x48"
95



I9-1a
(R)



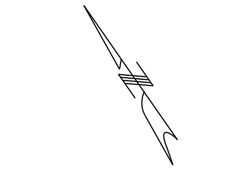
W11-1
W16-1P
(R)

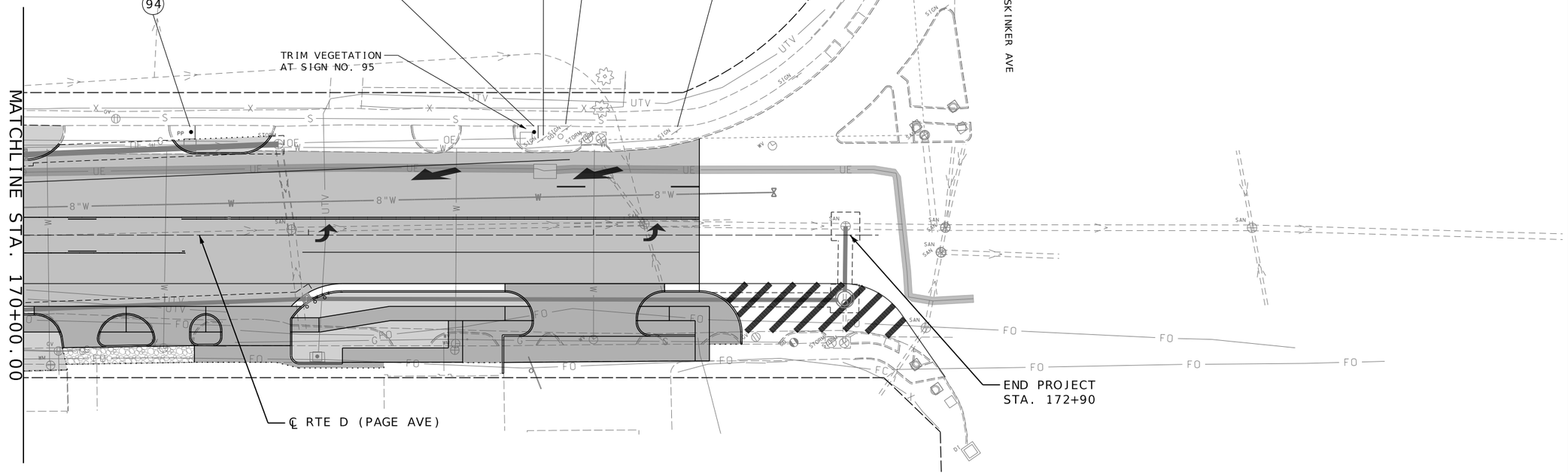


ENTERING
ST. LOUIS
COUNTY
THINK...
DON'T DRINK
AND DRIVE
R2-1 36"x48"
(RR)
SPECIAL
SPECIAL
(UIP)
96



R2-1





LEGEND

(R) - REMOVE
(UIP) - USE IN PLACE
(RR) - REMOVE AND REPLACE
(REL) - RELOCATE

ROUTE D

SIGNING PLAN
SHEET 16 OF 16

STATE OF MISSOURI
PROFESSIONAL ENGINEER
ELENA T. WISE
NUMBER PE-2014015051

DATE PREPARED	
7/3/2025	
ROUTE: D	STATE: MO
DISTRICT: SL	SHEET NO.: 165
COUNTY: ST. LOUIS	
JOB NO.: J6S3215B	
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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI
CIVIL DESIGN,INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE														BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
																							2-INCH POST						2.5-INCH POST								
																										ANCHORS						ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF		EACH	EACH	EACH				EACH	EACH	EACH	EACH	
10	30"x30"	278+90		RTE D RT																			9.5		9.5	1										
11	12"x18"	280+80		RTE D LT																			9		9	1										
12a	36"x36"	279+64		RTE D LT																									12		12		1			
12b	24"x30"																																			
13	12"x18"	279+95		RTE D RT																			9		9	1										
14	VARx6"	280+39		RTE D RT																			8		8	1										
15	36"x36"	280+82		RTE D RT																			10		10	1										
16	48"x36"	282+16		RTE D LT																			11	11	22	2										
17a	24"x24"	283+09		RTE D LT																			10		10	1										
17b	21"x15"																																			
18	30"x30"	283+22		RTE D RT																			9.5		9.5	1										
19a	48"x36"	99+43		RTE D LT																			11	11	22	2										
19b	45"x18"																																			
20a	24"x24"	100+35		RTE D LT																			10		10	1										
20b	21"x15"																																			
21a	24"x12"	100+82		RTE D RT																																
21b	24"x24"																																			
22a	36"x36"	101+83		RTE D RT																									11		11		1			
22b	30"x18"																																			
23	36"x36"	102+63		RTE D LT																			11		11	1										
24	36"x48"	103+15		RTE D RT																																
26	24"x30"	103+47		RTE D RT		0.13							2.5	13.8		5.79	79.85																			
27	36"x36"	103+51		RTE D RT																			11		11	1										
25	12"x18"	103+27		RTE D LT																			9		9	1										
28	24"x30"	103+96		RTE D CL		0.13							2.5	13.8		5.79	79.85																			
29	36"x36"	104+05		RTE D LT																			11		11	1										
30a	VARx6"	104+60		RTE D RT																			11		11	1										
30b	36"x36"																																			
31a	36"x36"	104+90		RTE D LT																									11		11		1			
31b	30"x18"																																			
32a	30"x30"	106+40		RTE D LT																			11		11	1										FACE SIGN TOWARD PARKING
32	36"x36"	106+72		RTE D LT																			10		10	1										
33a	36"x36"	110+34		RTE D RT																									11		11		1			
33b	30"x18"																																			
34	36"x36"	111+10		RTE D LT																			10		10	1										
35	36"x36"	111+61		RTE D RT																			11		11	1										
37	24"x30"	111+77		RTE D RT		0.13							2.5	13.8		5.79	79.85																			
36	12"x18"	111+65		RTE D LT																			9		9	1										
38	24"x30"	112+10		RTE D LT		0.13							2.5	13.8		5.79	79.85																			
39	36"x36"	112+17		RTE D LT																			11		11	1										
40a	36"x36"	113+47		RTE D LT																									11		11		1			
40b	30"x18"																																			
41	36"x36"	114+57		RTE D LT																			11		11	1										
42a	30"x24"	114+92		RTE D LT																			10		10	1										
42b	30"x12"																																			
43a	24"x18"	116+89		RTE D RT																			9		9	1										
43b	12"x9"																																			
44	12"x18"	117+33		RTE D LT																			9		9	1										
45	12"x18"	118+10		RTE D LT																			9		9	1										
46	12"x18"	119+05		RTE D LT																			9		9	1										
47	36"x36"	119+89		RTE D LT																			10		10	1										
48	24"x24"	121+81		RTE D LT																																
49	36"x36"	124+17		RTE D LT																			10		10	1										
50	24"x24"	126+39		RTE D RT																			10		10	1										
51a	VAR X 6"	126+90		RTE D RT																			8		8	1										
51b	VAR X 6"																																			
52	36"x36"	126+90		RTE D RT																			11		11	1										
53	36"x48"	128+04		RTE D LT																									12		12		1			
54a	36"x36"	128+96		RTE D RT																																
54b	30"x18"																																			
				SUBTOTAL 2																																	
				SUBTOTAL 1		0.52											319.4								382	38					89		8		0	
				TOTAL																	**															

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

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ROUND PIPE POST AND FOOTING DATA TABLE

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

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

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

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	166

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

CIVIL DESIGN,INC.
WBE / DBE
5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
Missouri State Certificate of Authority #2002006804

REV.

D-29

ROUTE D

GROUND MOUNTED SIGN SUPPORTS SHEET 1 OF 2

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST						
																								TOTAL	ANCHORS					TOTAL	2.25"	ANCHORS			
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO.1	POST NO.2	ITEM NO. 9031280	INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	EACH	
55a	VAR X 6"	129+29		RTE D LT																		8		8	1										
55b	VAR X 6"																																		
56	36"x36"	129+37		RTE D RT																		11		11	1										
57	36"x36"	129+33		RTE D LT																		11		11	1										
58	36"x36"	129+73		RTE D RT																		11		11	1										
59a	VAR X 6"	129+74		RTE D RT																		8		8	1										
59b	VAR X 6"																																		
60	36"x36"	130+26		RTE D RT																		11		11	1										
61	24"x30"	130+31		RTE D LT		0.13							2.5	13.8		5.79	79.85																		
62	12"x18"	130+29		RTE D LT																		9		9	1										
63	12"x18"	130+40		RTE D LT																		9		9	1										
64	24"x30"	130+69		RTE D LT		0.13							2.5	13.8		5.79	79.85																		
65	36"x36"	130+83		RTE D LT																		11		11	1										
66a	36"x36"	132+04		RTE D LT																										11		11		1		
66b	30"x18"																																		
67	36"x36"	132+21		RTE D LT																		11		11	1										
68	36"x36"	132+55		RTE D LT																		11		11	1										
69a	VAR x 6"	132+57		RTE D LT																		8		8	1										
69b	VAR x 6"			RTE D LT																															
70a	24"x12"	138+00		RTE D LT																		10		10	1										
70b	24"x24"																																		
71	24"x30"	138+60		RTE D RT		0.13							2.5	13.8		5.79	79.85																		
72	54"x24"	138+86		RTE D RT	X																	10		10	1										
73	24"x30"	139+20		RTE D RT		0.13							2.5	13.8		5.79	79.85																		
74	24"x24"	140+43		RTE D RT																		10		10	1										
75a	VAR x 6"	140+50		RTE D RT																		10		10	1										
75b	VAR x 6"																																		
75c	24"x24"																																		
76a	36"x48"	140+64		RTE D RT																										13		13		1		
76b	48"x24"				X																														
77a	36"x36"	157+16		RTE D RT																										11		11		1		
77b	30"x18"																																		
78	36"x48"	158+33		RTE D RT																		12		12	1										
79	36"x36"	158+69		RTE D RT																		11		11	1										
80	24"x30"	158+80		RTE D RT		0.13							2.5	13.8		5.79	79.85																		
81	24"x30"	159+18		RTE D RT		0.13							2.5	13.8		5.79	79.85																		
82	36"x36"	159+25		RTE D RT																		11		11	1										
83a	36"x36"	160+55		RTE D RT																										11		11		1		
83b	30"x18"																																		
84	36"x36"	161+62		RTE D RT																		11		11	1										
85a	36"x36"	165+02		RTE D RT																										11		11		1		
85b	30"x18"																																		
86	36"x36"	166+36		RTE D RT																		11		11	1										
87	24"x30"	166+50		RTE D RT		0.13							2.5	13.8		5.79	79.85																		
88	24"x30"	166+72		RTE D RT		0.13							2.5	13.8		5.79	79.85																		
89	36"x36"	166+88		RTE D RT																		11		11	1										
90a	36"x36"	168+15		RTE D RT																										11		11		1		
90b	30"x18"																																		
91a	VAR x 6"	168+35		RTE D RT																		8		8	1										
91b	VAR x 6"																																		
92a	VARx6"	168+36		RTE D RT																		11		11	1										
92b	36"x36"																																		
93	36"x36"	168+77		RTE D RT																		11		11	1										
94a	36"x36"	170+60		RTE D LT																		13.25		13.25	1										
94b	24"x36"																																		
95	48"x48"	172+12		RTE D RT																										12		12		1		
96a	36"x48"	172+29		RTE D LT																										12		12		1		
96b	VARx18"																																		
96c	VARx18"																																		
				SUBTOTAL 2		1.04						638.83												257.25	25							117		9		2	
				SUBTOTAL 1		0.52						319.42												382	38							89		8		0	
				TOTAL		1.60						960										**		639	63							206		17		2	

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

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ROUND PIPE POST AND FOOTING DATA TABLE

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

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

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

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 167
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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

CIVIL DESIGN, INC.
WBE / DBE
5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
Missouri State Certificate of Authority #2002006804

D-29
ROUTE D
GROUND MOUNTED SIGN SUPPORTS SHEET 2 OF 2

P:\6XXX\62XX-63XX\6247 - J6S3215B Route D Page ADA\28-Trans\CAD\Sheets\166-167_SND2901-J6S3215B_I1.dgn 1:55:35 PM 7/3/2025

STANDARD SIGN ASSEMBLIES

SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH

SIGN NO.	STATION OR LOG MILE	LOCATION	D11-1 24"x18" BIKE ROUTE	M1-5a 24"x24" D	M6-2PR 12"x9"	M6-3 21"x15"	M6-4 21"x15"	R1-1 36"x36" STOP	R1-5L 36"x36" HERE TO	R2-1 36"x48" SPEED LIMIT 35	R3-17 30"x24" BIKE LANE	R3-17aP 30"x12" AHEAD	R4-7 24"x30"	R5-2 24"x24"	R7-10 12"x18" BACK-IN PARKING ONLY	S1-1 36"x36"	W4-2R 36"x36"	W11-1 36"x36"	W11-2 36"x36"	W14-2 36"x36" NO OUTLET	W16-1P 24"x36" SHARE THE ROAD	W16-9P 30"x18" AHEAD	I4-1 54"x24" Pagedale CITY LIMIT	I4-1 48"x24" Wellston CITY LIMIT	R3-7R 36"x36" RIGHT LANE MUST TURN RIGHT	M3-2 24"x12" EAST	M3-4 24"x12" WEST	R5-1 30"x30" DO NOT ENTER
10	278+90	RTE D RT																							1			
12	279+75	RTE D LT																1			1							
15	280+82	RTE D RT						1																				
17	283+09	RTE D LT		1			1																					
18	283+22	RTE D RT																							1			
20	100+35	RTE D LT		1		1																						
21	100+82	RTE D RT		1																						1		
22	101+83	RTE D RT																	1			1						
23	102+63	RTE D LT						1																				
24	103+15	RTE D RT								1																		
26	103+47	RTE D CL											1															
27	103+51	RTE D RT							1																			
28	103+96	RTE D CL											1															
29	104+05	RTE D LT							1																			
30	104+60	RTE D RT						1																				
31	104+90	RTE D LT																	1			1						
32a	106+40	RTE D LT																										1
32	106+72	RTE D LT						1																				
33	110+34	RTE D RT																	1			1						
34	111+10	RTE D LT						1																				
35	111+61	RTE D RT							1																			
37	111+77	RTE D CL											1															
38	112+10	RTE D CL											1															
39	112+17	RTE D LT							1																			
40	113+47	RTE D LT																	1			1						
41	114+57	RTE D LT														1												
42	114+92	RTE D LT									1	1																
43	115+07	RTE D RT	1		1																							
44	117+33	RTE D LT													1													
45	118+10	RTE D LT													1													
46	119+06	RTE D LT													1													
47	119+89	RTE D LT						1																				
48	121+81	RTE D RT																								1		
49	124+17	RTE D LT						1																				
50	126+39	RTE D RT												1														
52	126+90	RTE D RT						1																				
53	128+04	RTE D LT								1																		
54	128+96	RTE D RT																	1			1						
57	129+29	RTE D LT						1																				
56	129+37	RTE D RT																		1								
58	129+73	RTE D RT						1																				
60	130+26	RTE D RT							1																			
61	130+31	RTE D CL											1															
64	130+69	RTE D CL											1															
65	130+82	RTE D LT							1																			
66	132+04	RTE D LT																	1			1						
67	132+21	RTE D RT																		1								
68	132+55	RTE D RT						1																				
70	138+00	RTE D LT		1																							1	
71	138+60	RTE D LT											1															
72	138+86	RTE D LT																					1		1			
73	139+20	RTE D LT											1															
76	140+64	RTE D RT								1														1		1		
77	157+16	RTE D RT																	1			1						
78	158+33	RTE D LT								1																		
79	158+69	RTE D RT							1																			
80	158+80	RTE D CL											1															
81	159+18	RTE D CL											1															
82	159+25	RTE D LT							1																			
		TOTALS	1	5	1	1	1	11	8	4	1	1	10	1	3	1	0	1	7	2	1	7	1	1	2	1	1	1

SIGN SUMMARY

STANDARD OR SPECIAL DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET: FLAT SHEET SH ITEM NO. 9035004A	TYPE & SQUARE FEET: FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A
D11-1		1	24"x18"	3.0	
M1-5a		5	24"x24"	20.0	
M6-2PR		1	12"x9"	0.8	
M6-3		1	21"x15"	2.2	
M6-4		1	21"x15"	2.2	
R1-1		11	36"x36"	99.0	
R1-5L		8	36"x36"	72.0	
R2-1		4	36"x48"	48.0	
R3-17		1	30"x24"	5.0	
R3-17aP		1	30"x12"	2.5	
R4-7		10	24"x30"	50.0	
R5-2		1	24"x24"	4.0	
R7-10		3	12"x18"	4.5	
S1-1		1	36"x36"		9.0
W4-2R		0	36"x36"		
W11-1		1	36"x36"		9.0
W11-2		7	36"x36"		63.0
W14-2		2	36"x36"		18.0
W16-1P		1	24"x36"		6.0
W16-9P		7	30"x18"		26.25
I4-1		1	54"x24"	9.0	
I4-1		1	48"x24"	8.0	
R3-7R		2	36"x36"	18.0	
M3-2		1	24"x12"	2.0	
M3-4		1	48"x24"	2.0	
R5-1		1	30"x30"	6.25	
TOTALS				358.4	131.25

*ORANGE, YELLOW AND YELLOW-GREEN

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STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED: 7/3/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 168
COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN, INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

D-30

ROUTE D

SIGN ASSEMBLIES AND SUMMARY SHEET 1 OF 2

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	D11-1 24"x18" BIKE ROUTE	M1-5a 24"x24" D	M6-2PR 12"x9"	M6-3 21"x15"	M6-4 21"x15"	R1-1 36"x36" STOP	R1-5L 36"x36" HERE TO	R2-1 36"x48" SPEED LIMIT 35	R3-17 30"x24" BIKE LANE	R3-17aP 30"x12" AHEAD	R4-7 24"x30"	R5-2 24"x24"	R7-10 12"x18" BACK-IN PARKING ONLY	S1-1 36"x36"	W4-2R 36"x36"	W11-1 36"x36"	W11-2 36"x36"	W14-2 36"x36" NO OUTLET	W16-1P 24"x36" SHARE THE ROAD	W16-9P 30"x18" AHEAD	I4-1 54"x24" Pagedale CITY LIMIT	I4-1 48"x24" Wellston CITY LIMIT	R3-7R 36"x36" RIGHT LANE MUST TURN RIGHT	M3-2 24"x12" EAST	M3-4 24"x12" WEST	R5-1 30"x30" DO NOT ENTER
83	160+55	RTE D LT																	1			1						
84	161+62	RTE D RT						1																				
85	165+02	RTE D RT																	1			1						
86	166+36	RTE D RT							1																			
87	166+50	RTE D CL											1															
88	166+72	RTE D CL											1															
89	166+88	RTE D LT							1																			
90	168+15	RTE D LT																	1			1						
91	168+35	RTE D RT						1																				
92	168+36	RTE D LT						1																				
93	168+77	RTE D RT						1																				
94	170+60	RTE D LT																1			1							
95	172+12	RTE D LT															1											
96	172+29	RTE D LT								1																		
SHEET 2	TOTALS		0	0	0	0	0	3	1	2	0	0	2	0	0	0	1	1	3	0	1	3	0	0	0	0	0	0
SHEET 1	TOTALS		1	5	1	1	1	11	8	4	1	1	10	1	3	1	0	1	7	2	1	7	2	1	1	1	1	1
	TOTAL		1	5	1	1	1	14	9	6	1	1	12	1	3	1	1	2	10	2	2	10	2	1	1	1	1	1

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SIGN SUMMARY

STANDARD OR SPECIAL DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET: FLAT SHEET SH ITEM NO. 9035004A	TYPE & SQUARE FEET: FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A
D11-1		0	24"x18"		
M1-5a		0	24"x24"		
M6-2PR		0	12"x9"		
M6-3		0	21"x15"		
M6-4		0	21"x15"		
R1-1		3	36"x36"	27.0	
R1-5L		1	36"x36"	9.0	
R2-1		2	36"x48"	24.0	
R3-17		0	30"x24"		
R3-17aP		0	30"x12"		
R4-7		2	24"x30"	10.0	
R5-2		0	24"x24"		
R7-10		0	12"x18"		
S1-1		0	36"x36"		
W4-2R		1	36"x36"		9.0
W11-1		1	36"x36"		9.0
W11-2		3	36"x36"		27.0
W14-2		0	36"x36"		
W16-1P		1	24"x36"		6.0
W16-9P		3	30"x18"		11.25
I4-1		1	54"x24"		
I4-1		1	48"x24"		
R3-7R		0	36"x36"		
M3-2		0	54"x24"		
M3-4		0	48"x24"		
R5-1		0	30"x30"		
SHEET 2	TOTALS			70.0	62.25
SHEET 1	TOTALS			358.4	131.25
	TOTAL			428.40	193.50

*ORANGE, YELLOW AND YELLOW-GREEN

D-30

ROUTE D

SIGN ASSEMBLIES AND SUMMARY SHEET 2 OF 2

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED: 7/3/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 169
COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

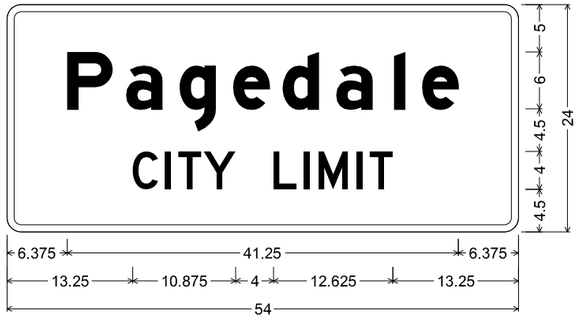
DESCRIPTION | DATE

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN, INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

REV.

SIGN NO.	72
STATION	138+86
ROADWAY	RTE D LT



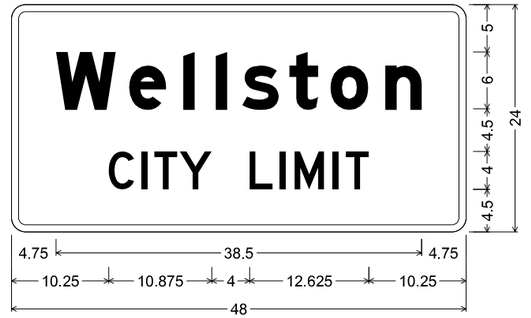
I4-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Pagedale", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

P	a	g	e	d	a	l	e
6.375	12.625	18.250	23.875	29.125	34.750	40.875	43.875

C	I	T	Y
13.250	16.750	18.125	20.750

L	I	M	I	T
28.125	31.375	32.875	36.875	38.250

SIGN NO.	76
STATION	140+64
ROADWAY	RTE D RT



I4-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Wellston", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

W	e	l	l	s	t	o	n
4.750	12.375	18.125	21.625	24.375	29.375	33.750	39.500

C	I	T	Y
10.250	13.750	15.125	17.750

L	I	M	I	T
25.125	28.375	29.875	33.875	35.250

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STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	170

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN,INC.
WBE / DBE
Missouri State Certificate of Authority #2002006804

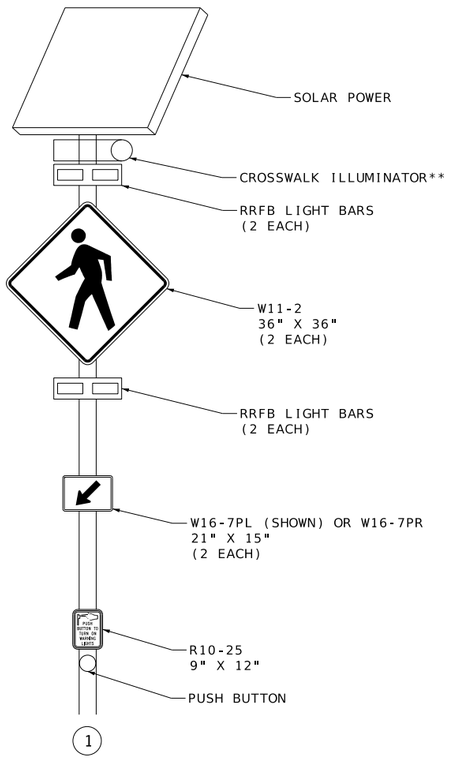
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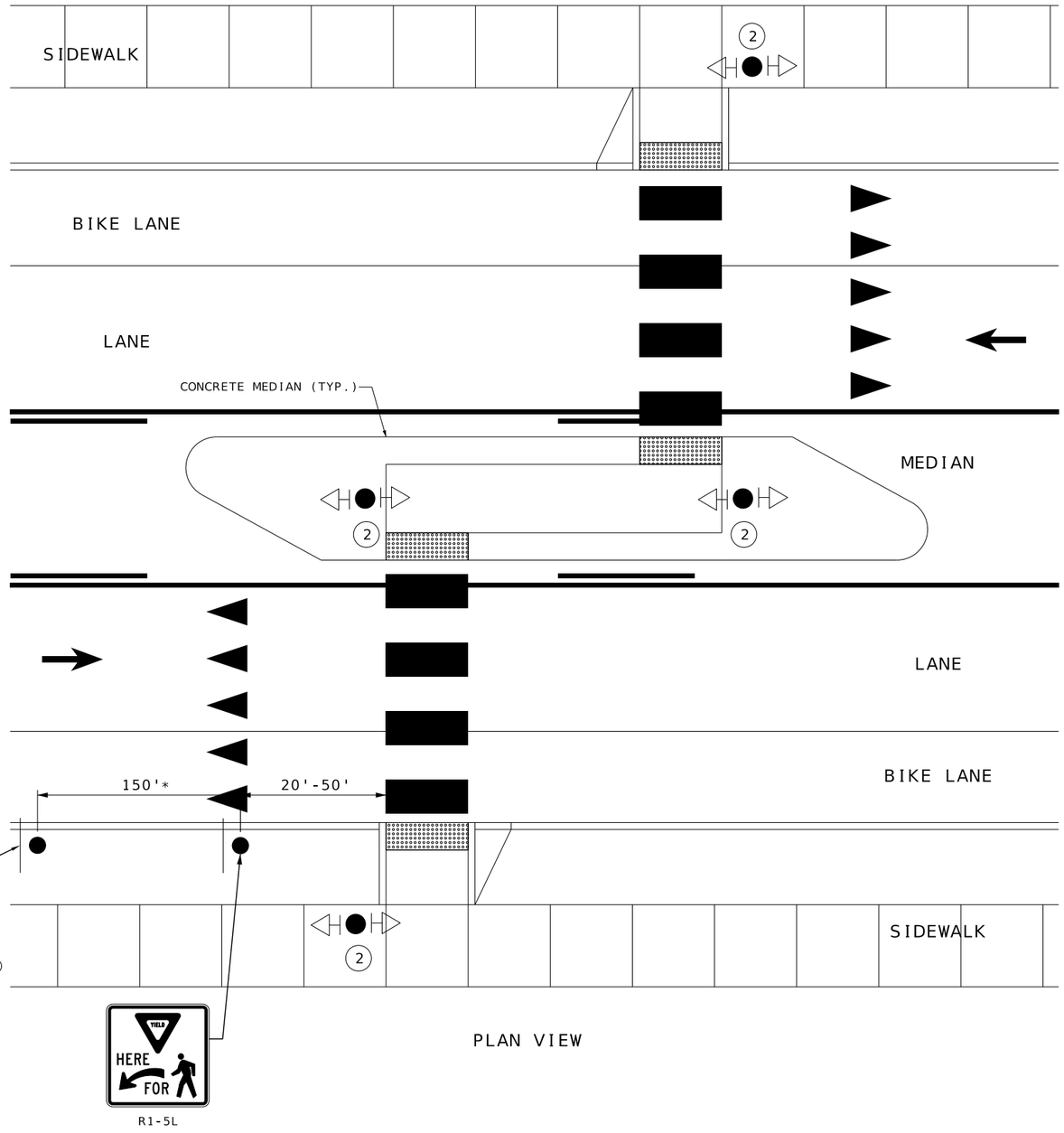
ROUTE D

SIGN DETAIL
SHEET 1 OF 1

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TYPICAL SECTION VIEW



PLAN VIEW

(1) RRFB WITH TYPE C POST BASE (SEE MODOT STD. PLAN 902.30)

(2) RRFB ASSEMBLY WITH SOLAR POWER, 4 RRFB LIGHT BARS, 2 W11-2, 2 W16-7P, R10-25, CROSSWALK ILLUMINATOR, AND PUSH BUTTON**

* ACTUAL ADVANCED SIGN LOCATION WILL BE BASED ON FIELD CONDITIONS AND DETERMINED BY THE ENGINEER.

**ILLUMINATOR WILL BE INSTALLED ON THE POST LOCATED AT THE OUTSIDE SIDEWALK AND INCLUDED IN THE COST OF INSTALLATION.

NOT TO SCALE

RECTANGULAR RAPID FLASHING BEACON WITH CROSSWALK ILLUMINATOR

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED: 7/3/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 171
COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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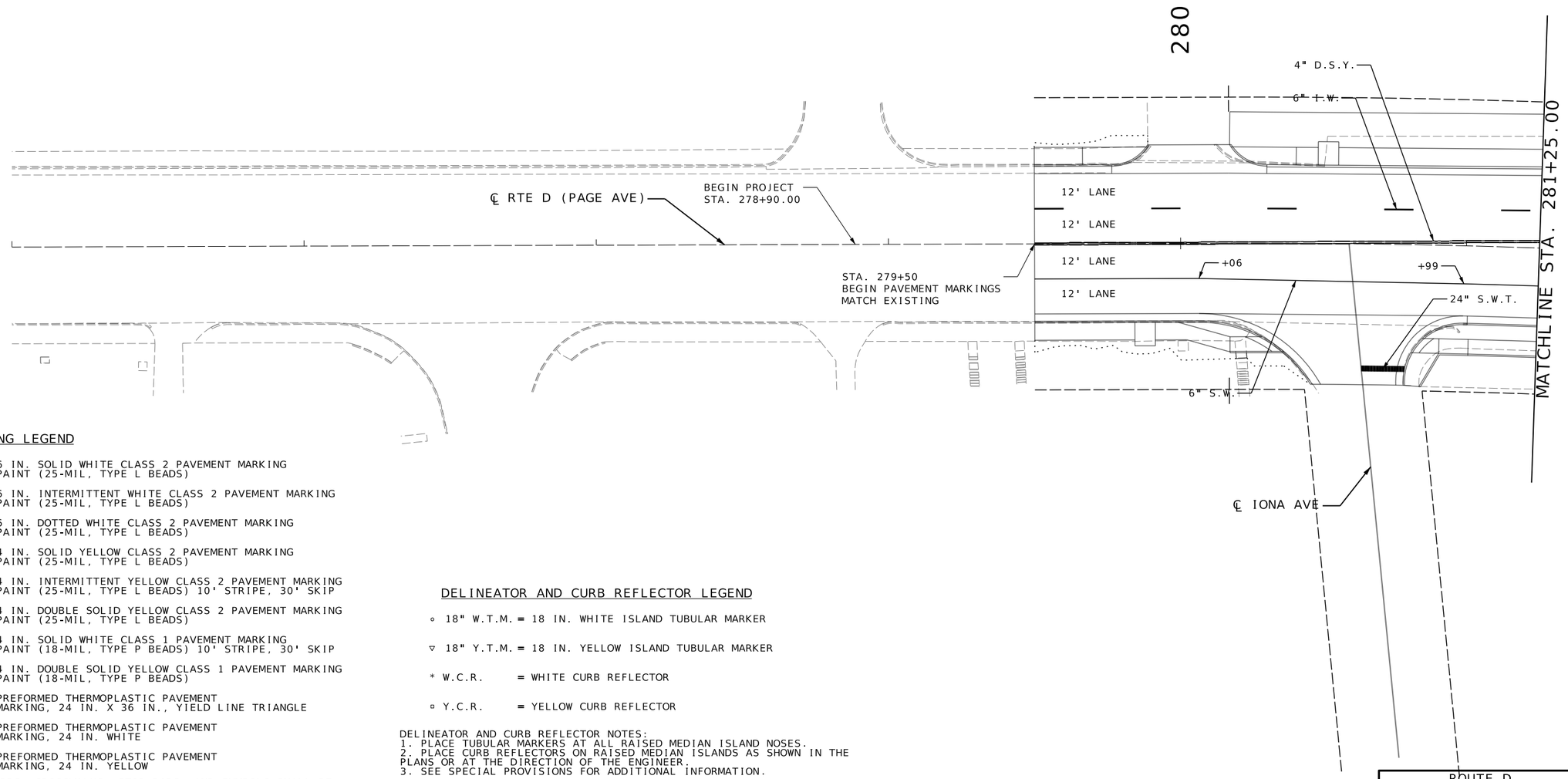
ROUTE D

RECTANGULAR RAPID FLASHING BEACON DETAIL
SHEET 1 OF 1

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SCALE
0 20 40 60



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ROUTE D

PAVEMENT MARKING PLAN
SHEET 1 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	172

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

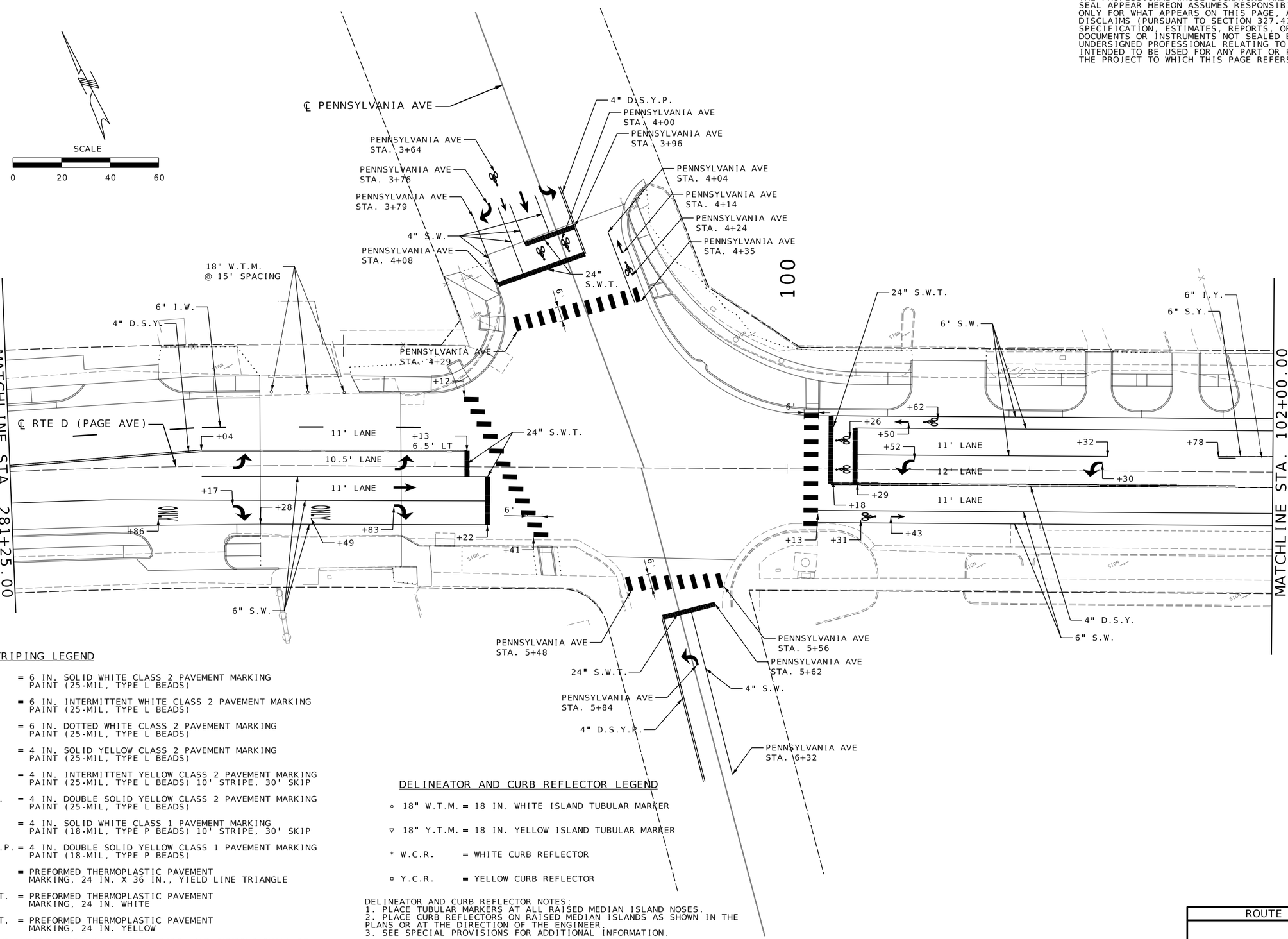
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PAVEMENT MARKING PLAN
SHEET 2 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	173

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

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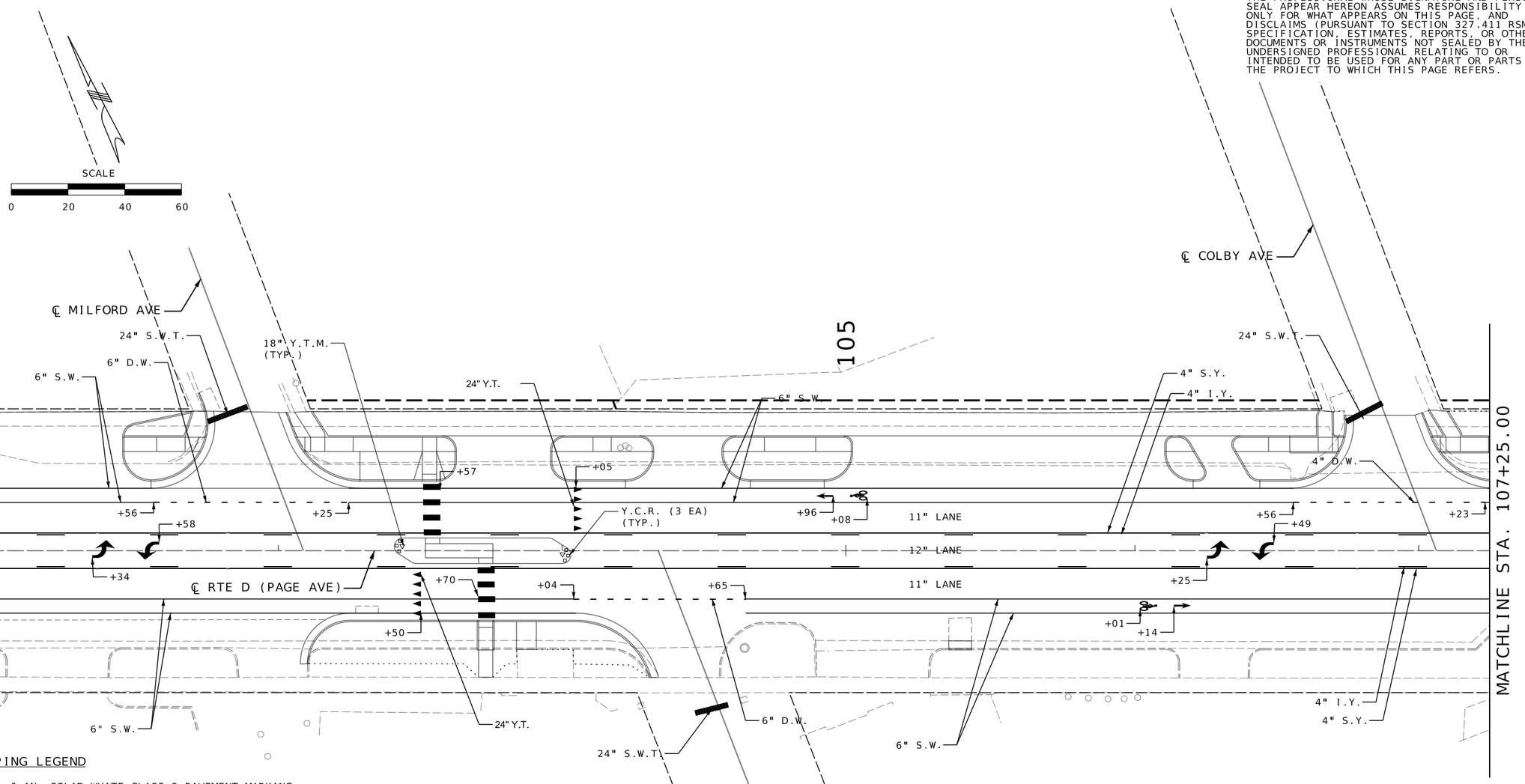
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ROUTE D

PAVEMENT MARKING PLAN
SHEET 3 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	174

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

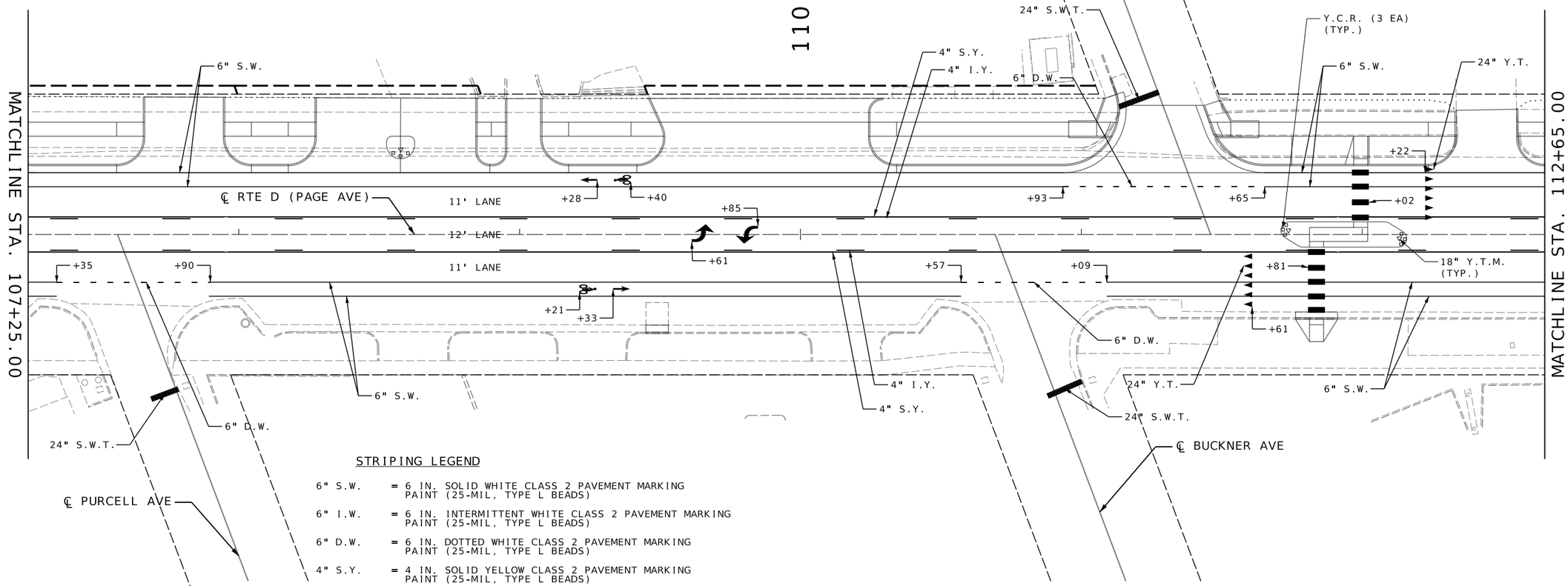
DESCRIPTION	DATE

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SCALE
0 20 40 60



STRIPING LEGEND

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ROUTE D

PAVEMENT MARKING PLAN
SHEET 4 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	175

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

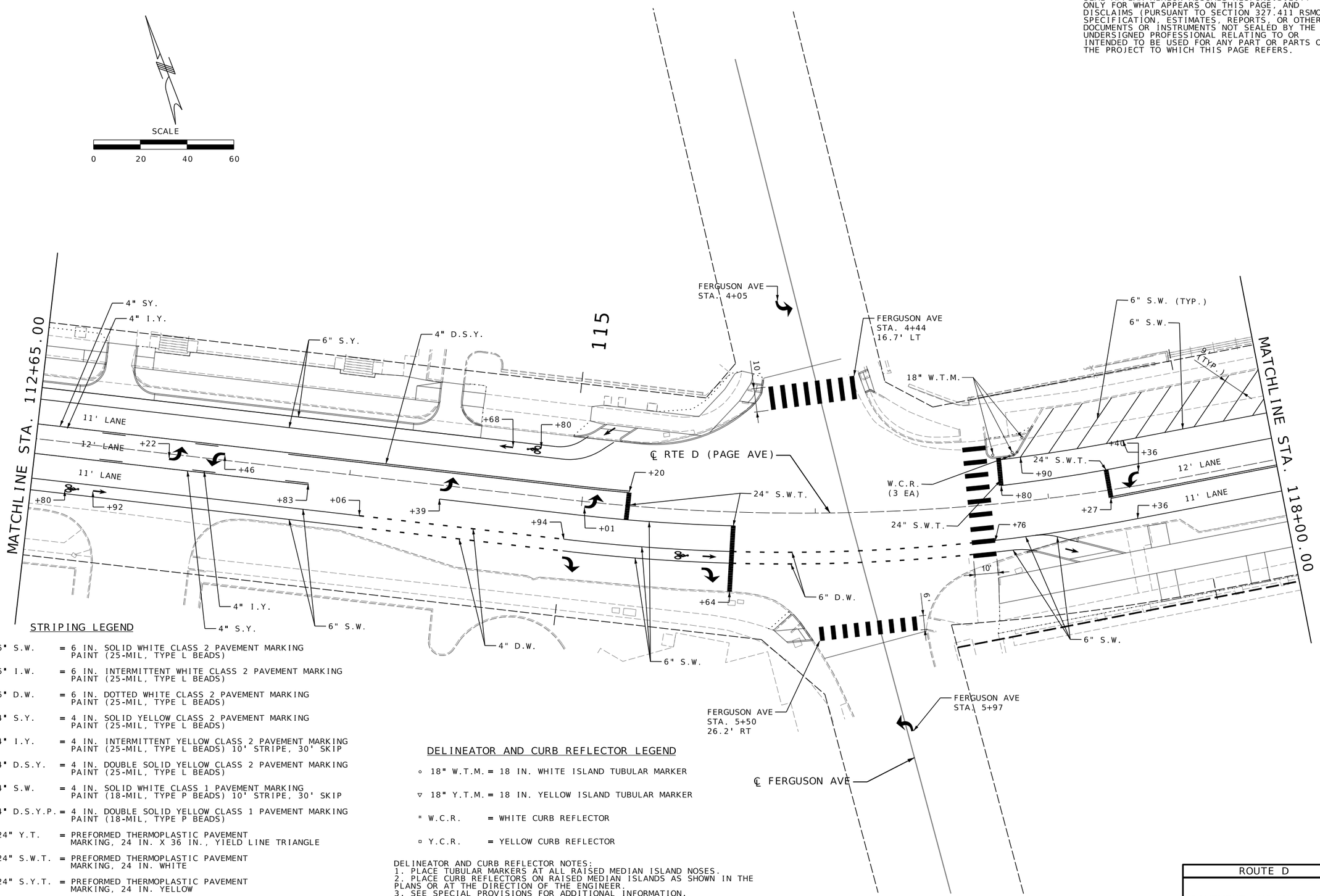
BRIDGE NO.

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ROUTE D

PAVEMENT MARKING PLAN
SHEET 5 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	176

COUNTY
ST. LOUIS

JOB NO.
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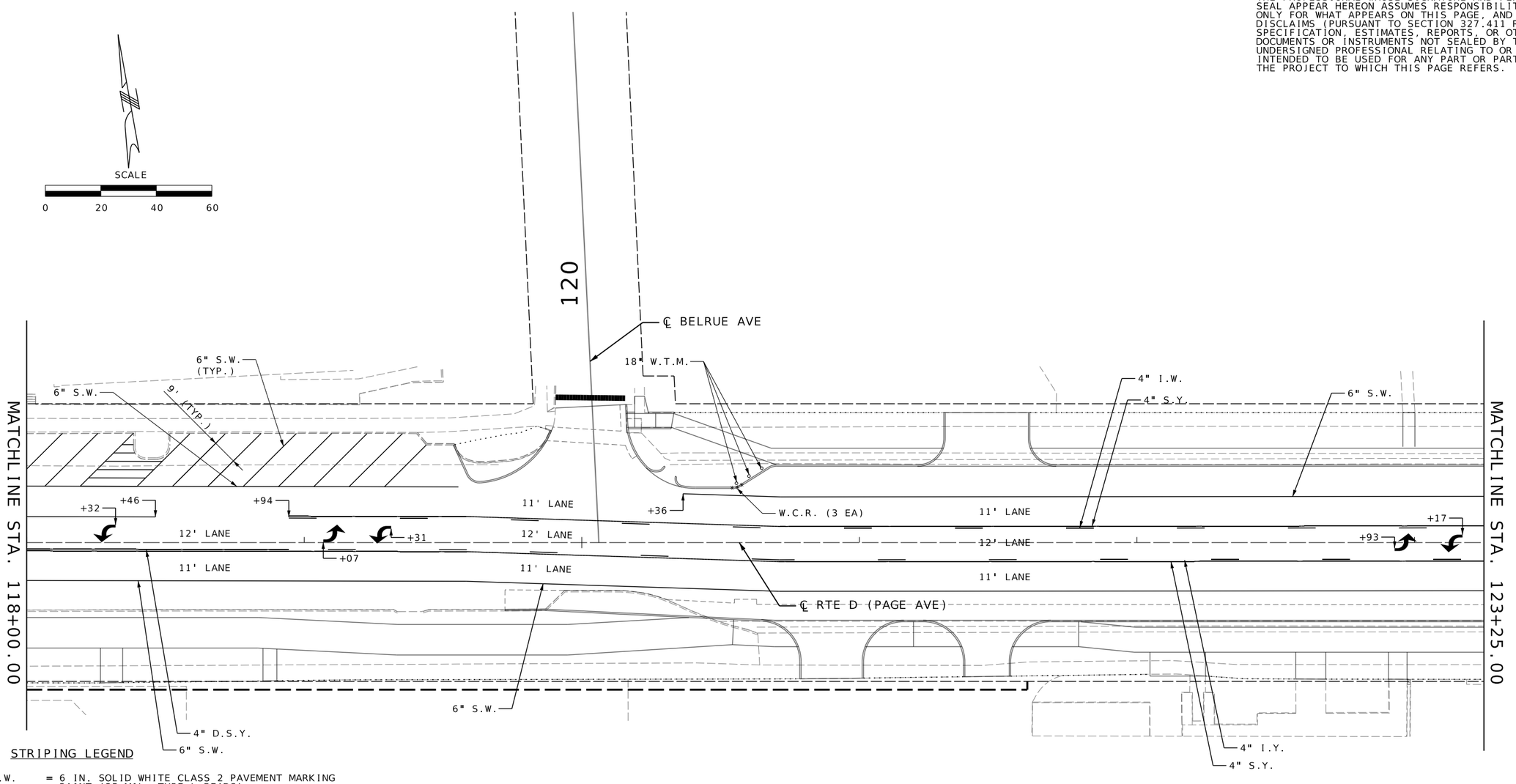
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NUMBER PE-2014015051
PROFESSIONAL ENGINEER

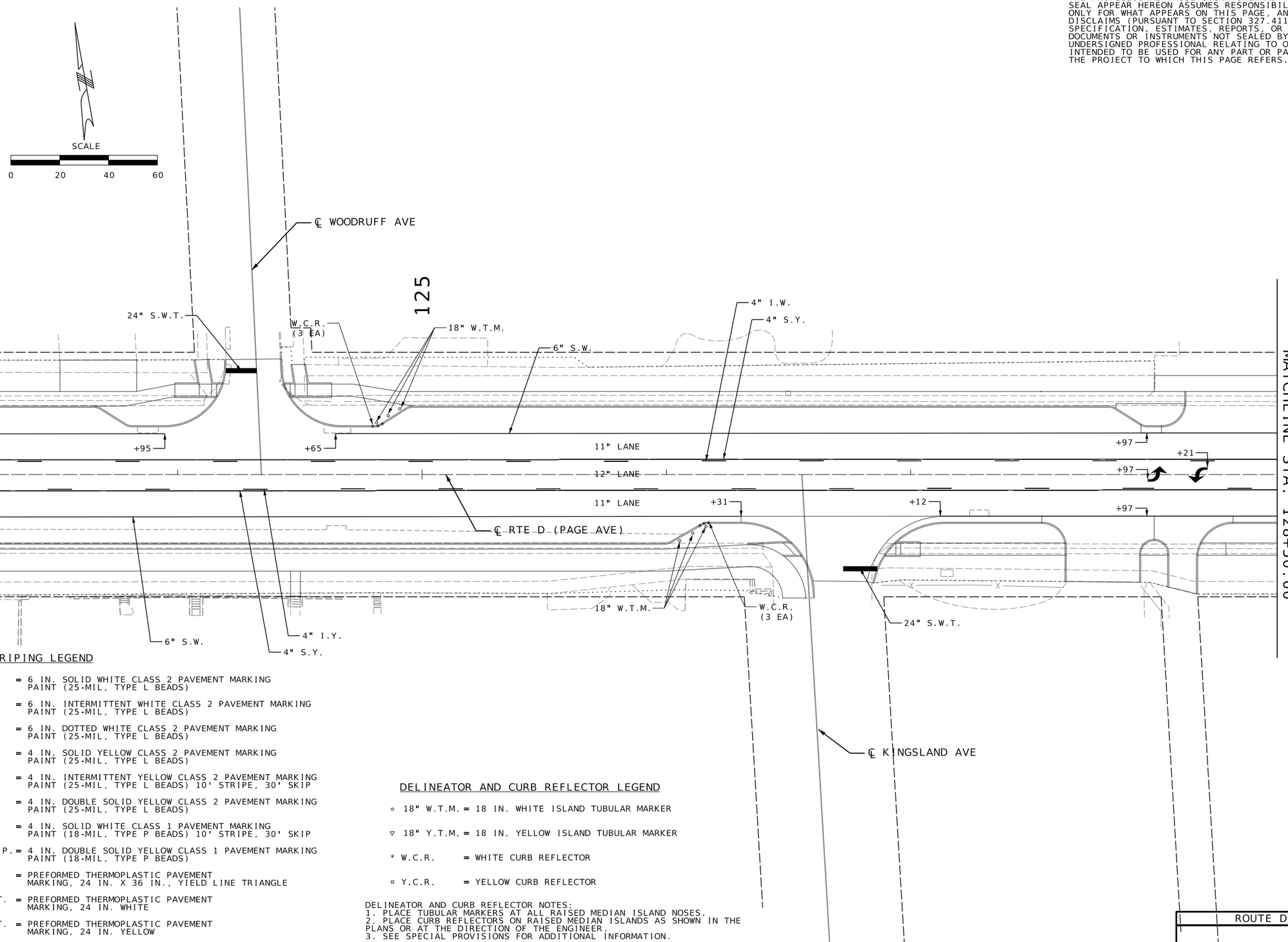
DATE PREPARED: 7/3/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 177
COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI
CIVIL DESIGN, INC.
WBE / DBE
Missouri State Certificate of Authority #2002004804

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STRIPING LEGEND

6" S.W. = 6 IN. SOLID WHITE CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)

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24" Y.T. = PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. X 36 IN., YIELD LINE TRIANGLE

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ALL ARROWS, WORDS, CROSSWALKS, STOP BARS, AND SYMBOLS SHALL BE PREFORMED THERMOPLASTIC. SEE MODOT STD. PLAN 620.00 FOR DETAILS.

DELINEATOR AND CURB REFLECTOR LEGEND

◦ 18" W.T.M. = 18 IN. WHITE ISLAND TUBULAR MARKER

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DELINEATOR AND CURB REFLECTOR NOTES:
1. PLACE TUBULAR MARKERS AT ALL RAISED MEDIAN ISLAND NOSES.
2. PLACE CURB REFLECTORS ON RAISED MEDIAN ISLANDS AS SHOWN IN THE PLANS OR AT THE DIRECTION OF THE ENGINEER.
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ROUTE D

PAVEMENT MARKING PLAN
SHEET 7 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	178

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

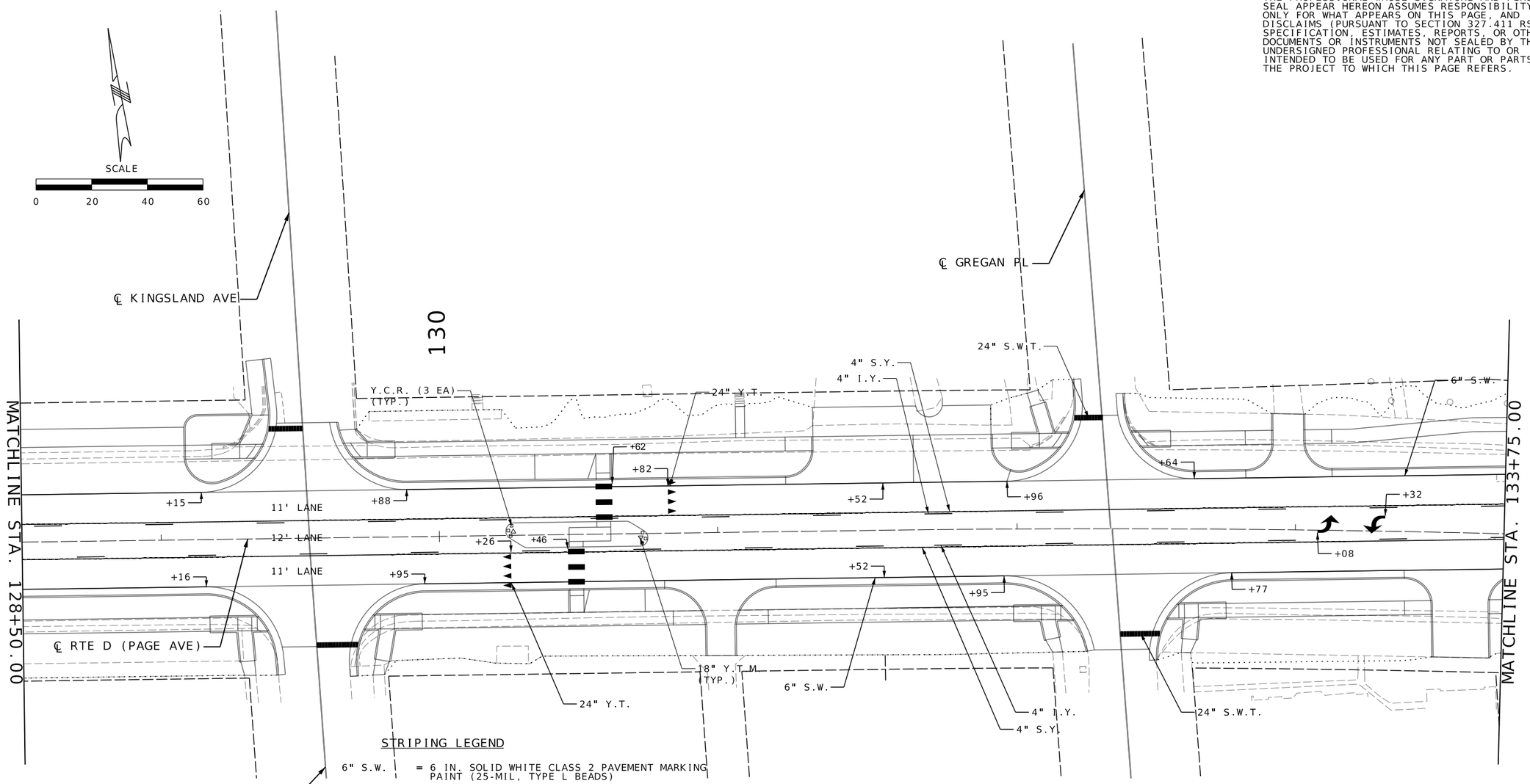
BRIDGE NO.

DESCRIPTION	DATE

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ROUTE D

PAVEMENT MARKING PLAN
SHEET 8 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	179

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

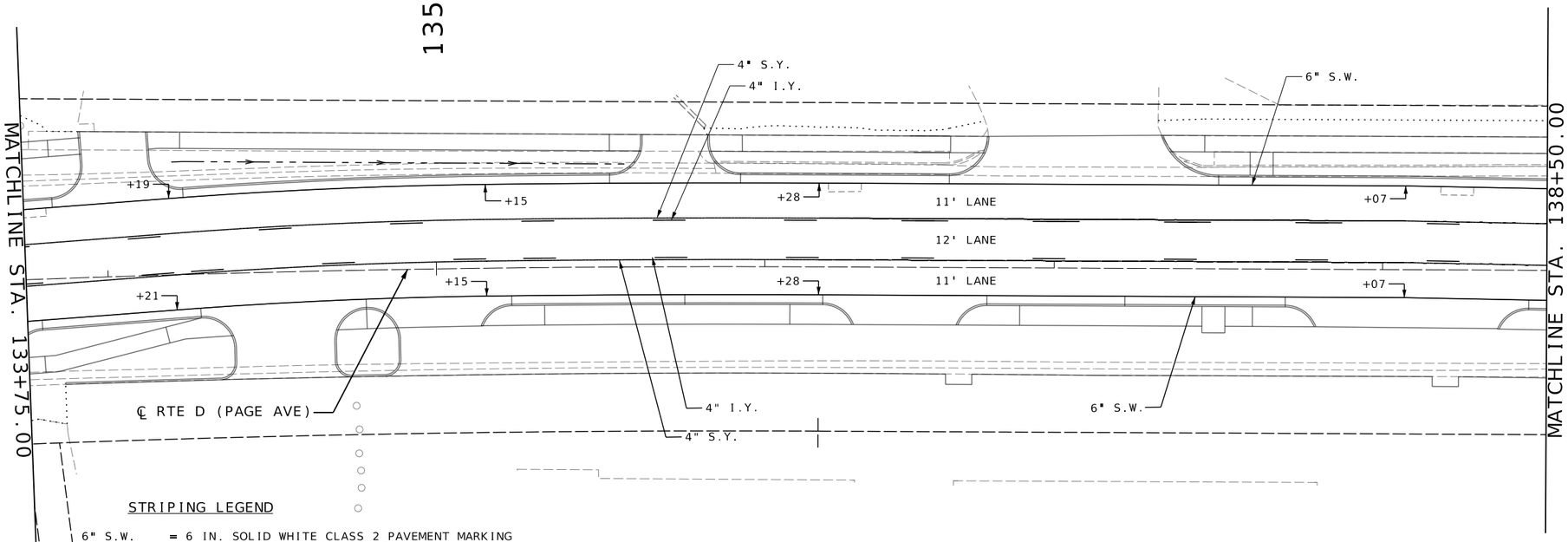
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SCALE
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ROUTE D

PAVEMENT MARKING PLAN
SHEET 9 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	180

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

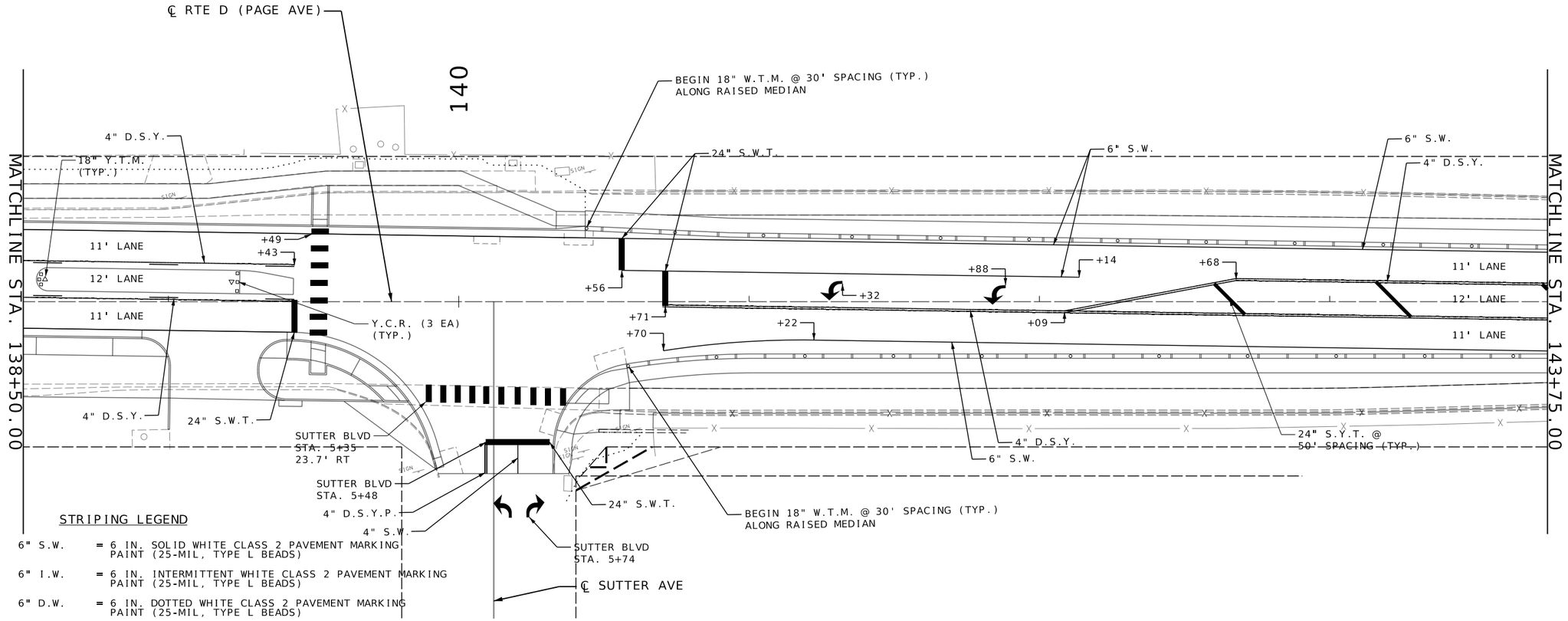
DESCRIPTION	DATE

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

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SCALE
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ROUTE D

PAVEMENT MARKING PLAN
SHEET 10 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	181

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

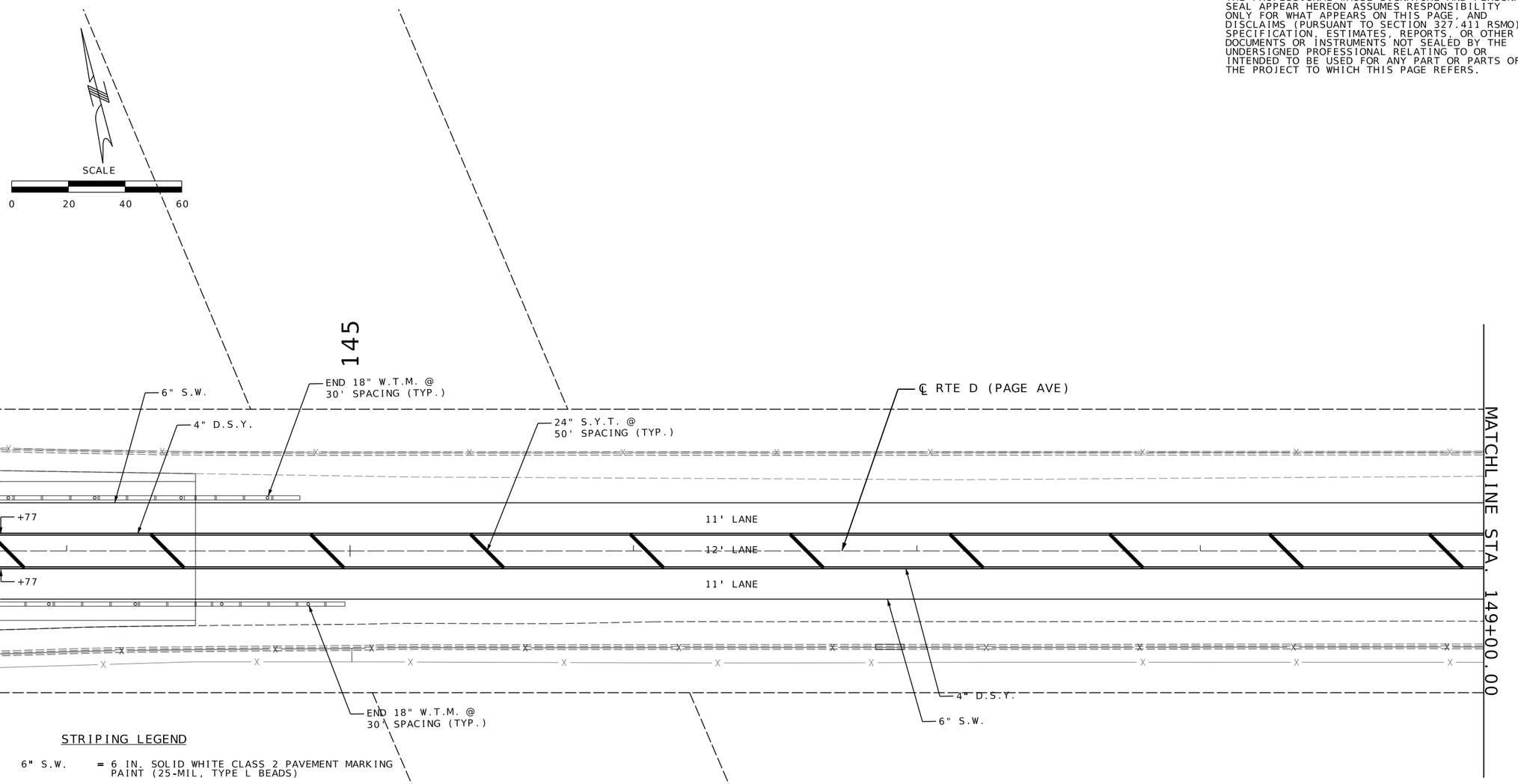
DESCRIPTION

DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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5220 Oakland Avenue
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ROUTE D

PAVEMENT MARKING PLAN
SHEET 11 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	182

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

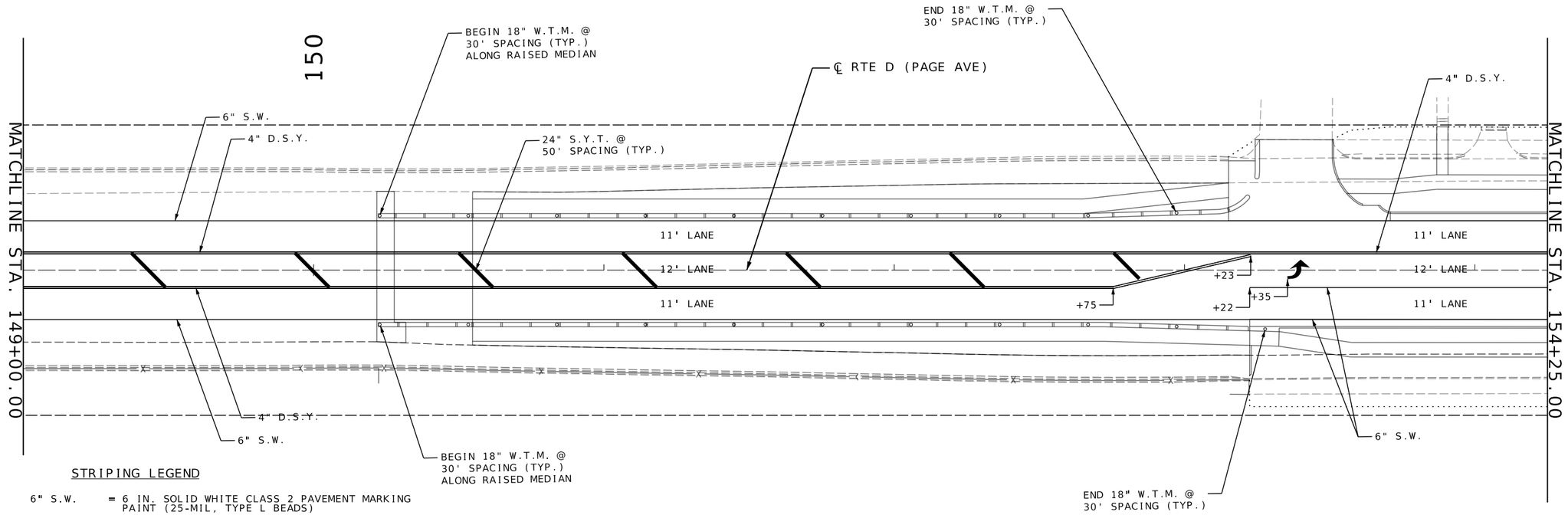
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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REV.

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ROUTE D

PAVEMENT MARKING PLAN
SHEET 12 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	183

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

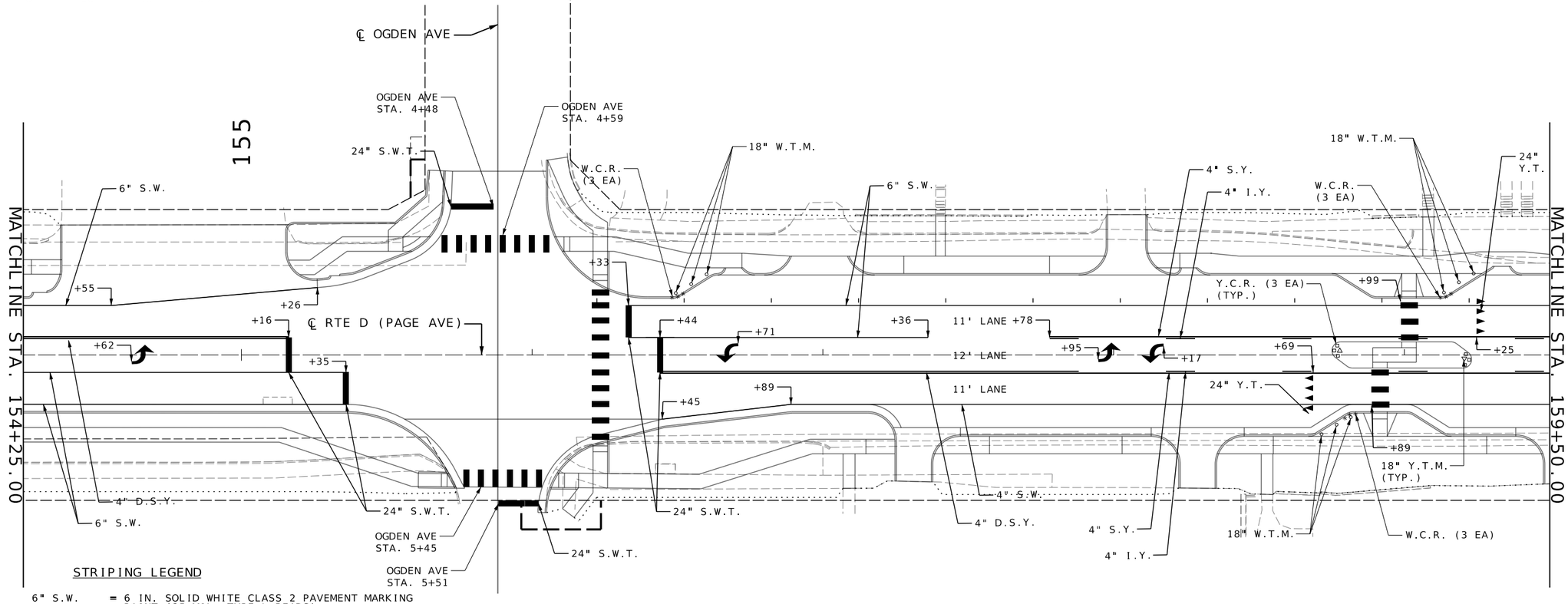
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ALL ARROWS, WORDS, CROSSWALKS, STOP BARS, AND SYMBOLS SHALL BE PREFORMED THERMOPLASTIC. SEE MODOT STD. PLAN 620.00 FOR DETAILS.

DELINEATOR AND CURB REFLECTOR LEGEND

◦ 18" W.T.M. = 18 IN. WHITE ISLAND TUBULAR MARKER

▽ 18" Y.T.M. = 18 IN. YELLOW ISLAND TUBULAR MARKER

* W.C.R. = WHITE CURB REFLECTOR

▫ Y.C.R. = YELLOW CURB REFLECTOR

DELINEATOR AND CURB REFLECTOR NOTES:
1. PLACE TUBULAR MARKERS AT ALL RAISED MEDIAN ISLAND NOSES.
2. PLACE CURB REFLECTORS ON RAISED MEDIAN ISLANDS AS SHOWN IN THE PLANS OR AT THE DIRECTION OF THE ENGINEER.
3. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

ROUTE D

PAVEMENT MARKING PLAN
SHEET 13 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	184

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

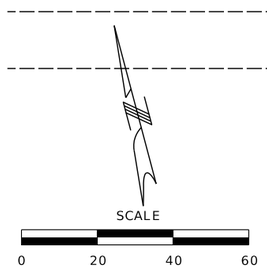
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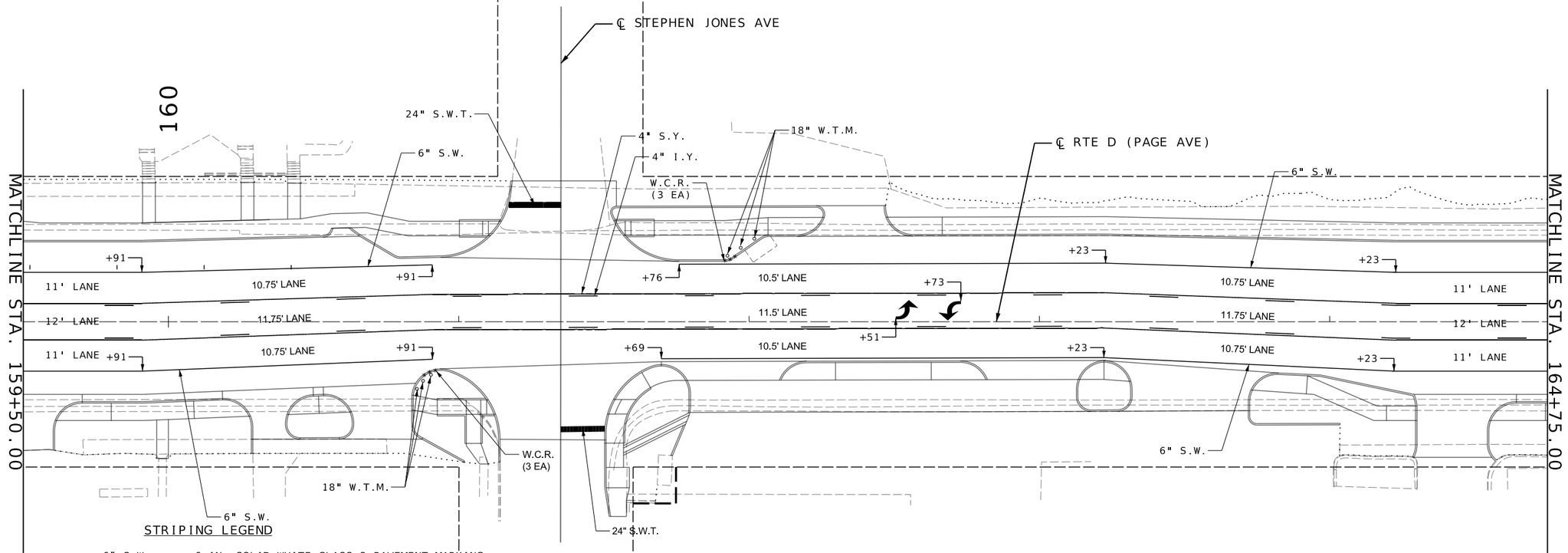
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN,INC.
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STRIPING LEGEND

6" S.W. = 6 IN. SOLID WHITE CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)

6" I.W. = 6 IN. INTERMITTENT WHITE CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)

6" D.W. = 6 IN. DOTTED WHITE CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)

4" S.Y. = 4 IN. SOLID YELLOW CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)

4" I.Y. = 4 IN. INTERMITTENT YELLOW CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 10' STRIPE, 30' SKIP

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4" S.W. = 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 10' STRIPE, 30' SKIP

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24" Y.T. = PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. X 36 IN., YIELD LINE TRIANGLE

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ROUTE D

PAVEMENT MARKING PLAN
SHEET 14 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	185

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

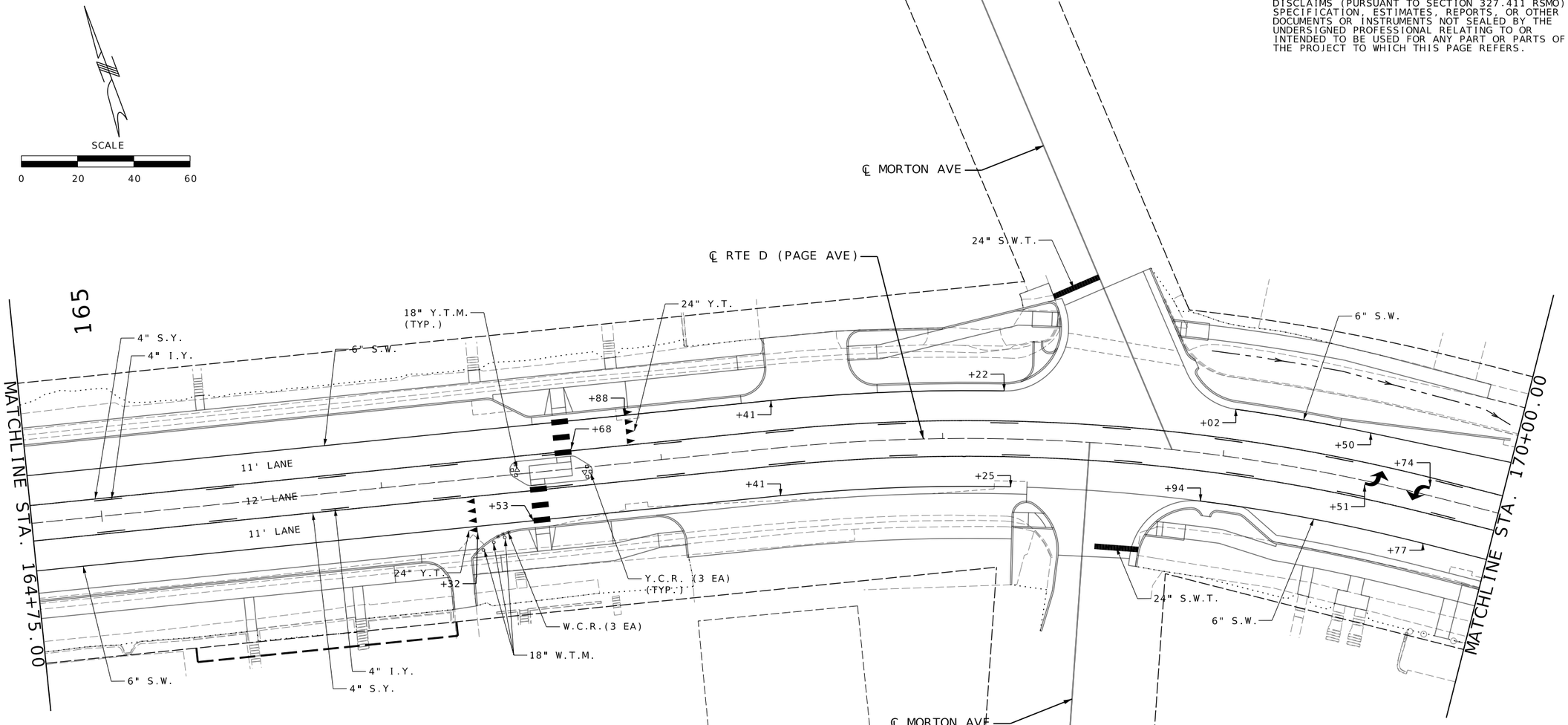
DESCRIPTION	DATE

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

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CIVIL DESIGN,INC.
WBE / DBE
5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
Missouri State Certificate of Authority #2002006804

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ROUTE D

PAVEMENT MARKING PLAN
SHEET 15 OF 16

STATE OF MISSOURI
ELENA T. WISE
NUMBER PE-2014015051
PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	186

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

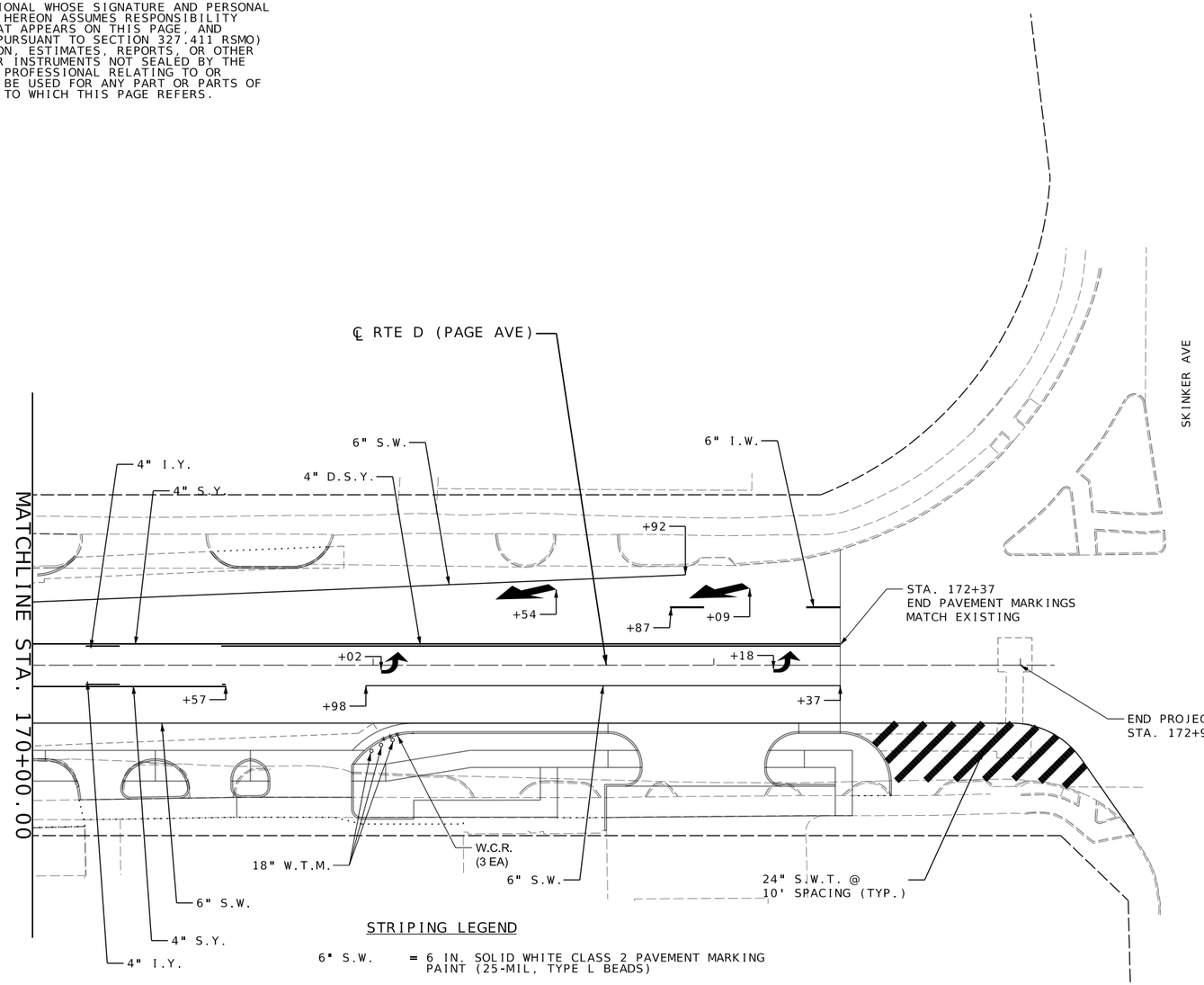
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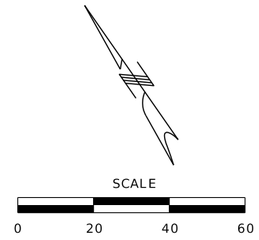
DESCRIPTION	DATE

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
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ROUTE D

PAVEMENT MARKING PLAN
SHEET 16 OF 16

ELENA T. WISE
NUMBER PE-2014015051
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	187

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

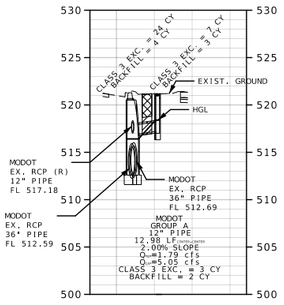
BRIDGE NO.

DESCRIPTION	DATE

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

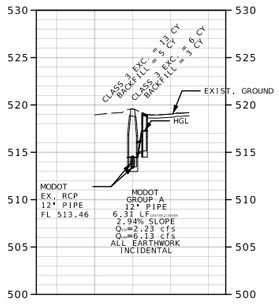
5220 Oakland Avenue
St. Louis, MO 63110
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CIVIL DESIGN, INC.
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Missouri State Certificate of Authority #2002006804

Node Name	16J3-044D	1-1C_1



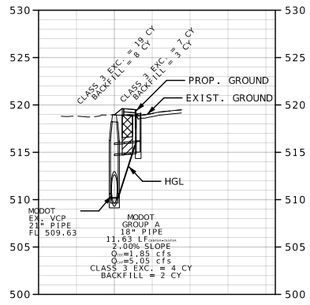
Structure Type	60" MH	2 GI W. SIDE INTAKE
Station & Offset	280+26.35 34.00' RT	280+13.94 26.20' RT
Top Elev.	521.29	521.20
Sill Elev.	521.29	521.20
Invert Elev.	516.94	517.20
Bottom Elev.	512.59	517.20
HGL Elev.	516.41	518.40

Node Name	1-2B_2	1-2B_1



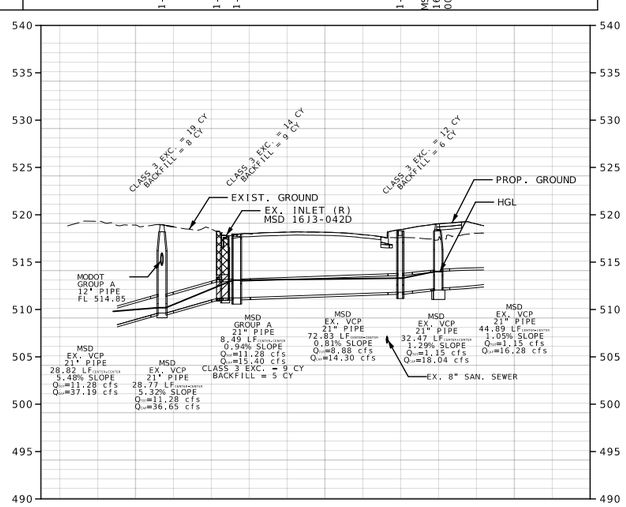
Structure Type	48" MH	TYPE A GRATE INLET
Station & Offset	283+04.12 37.68' RT	283+04.38 31.41' RT
Top Elev.	519.57	519.15
Sill Elev.	519.57	519.15
Invert Elev.	514.96	515.15
Bottom Elev.	513.46	515.15
HGL Elev.	514.70	516.30

Node Name	1-4A_0	1-4B_1



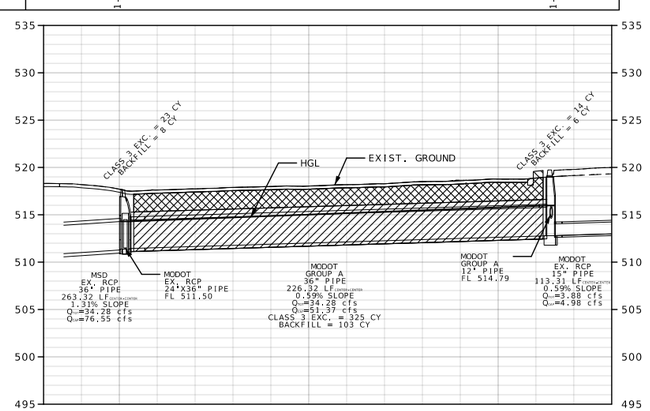
Structure Type	48" MH	TYPE A GRATE INLET
Station & Offset	282+87.21 41.90' LT	282+87.09 29.36' LT
Top Elev.	518.36	519.02
Sill Elev.	518.36	519.02
Invert Elev.	514.85	515.02
Bottom Elev.	509.63	515.02
HGL Elev.	514.53	516.18

Node Name	1-4A_0	1-4A_1	1-4A_2	1-4A_3	MSD 16J3-002C



Structure Type	48" MH	TYPE C COLLAR	TYPE A GRATE INLET	TYPE T INLET	EX. INLET (CONVERT TO MH)
Station & Offset	282+87.21 41.90' LT	282+87.21 44.02' LT	283+26.18 44.04' LT	99+66.85 45.01' LT	99+86.63 44.74' LT
Top Elev.	518.36	----	517.98	517.82	519.06
Sill Elev.	518.36	----	517.98	517.82	519.06
Invert Elev.	509.63 / 509.63	511.16 / 511.16	511.24 / 511.24	511.83 / 511.83	512.25 / 512.28
Bottom Elev.	509.63	----	511.24	511.83	512.25
HGL Elev.	510.19	513.10	513.31	513.92	514.00

Node Name	1-5A_1	1-5A_2



Structure Type	84" MH (R&R)	48" MH
Station & Offset	100+98.17 28.05' RT	103+24.60 27.76' RT
Top Elev.	517.52	519.74
Sill Elev.	517.52	519.74
Invert Elev.	511.29 / 511.45	512.79 / 512.80
Bottom Elev.	511.29	512.79
HGL Elev.	514.31	515.98

LEGEND

CLASS 3 EXCAVATION

BACKFILL

ATG REMOVE REPLACE OR REHAB NOTE:
THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.

PARTIAL REMOVAL OR CONVERSION OF A STRUCTURE:
THE PARTIAL REMOVAL, REPLACEMENT, AND CONVERSION OF THE EXISTING STRUCTURE(S) WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE AND THE TOP SECTION CAN BE CONVERTED AS PROPOSED AND STILL MEET MSD STANDARDS, THEN CONVERT AND ADJUST TO GRADE, OTHERWISE, THE ENTIRE STRUCTURE WILL BE REMOVED AND REPLACED WITH A NEW STRUCTURE.

SEWERS AT GRADES OF 1% OR LESS:
FOR SEWER PIPE (STORM, SANITARY, AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER. PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS, THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.

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STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER

Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	188

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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REV.	DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

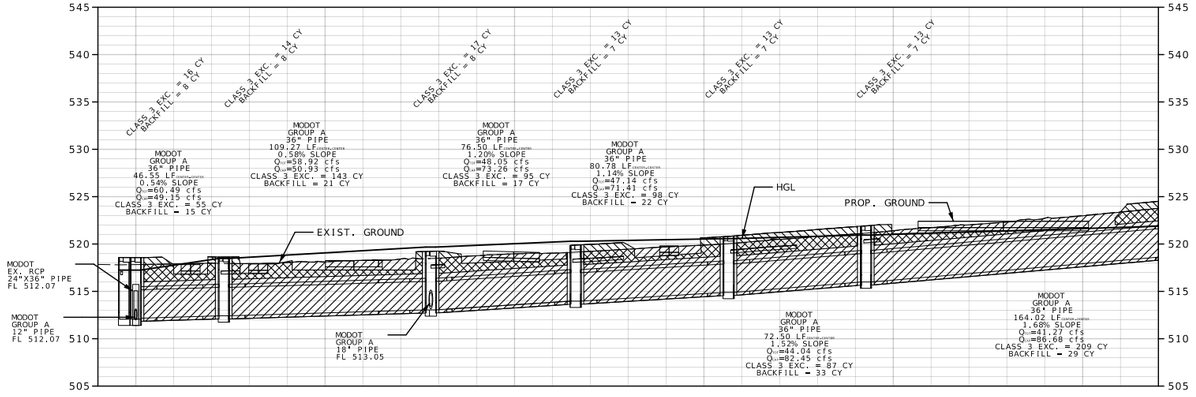
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CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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ROUTE D

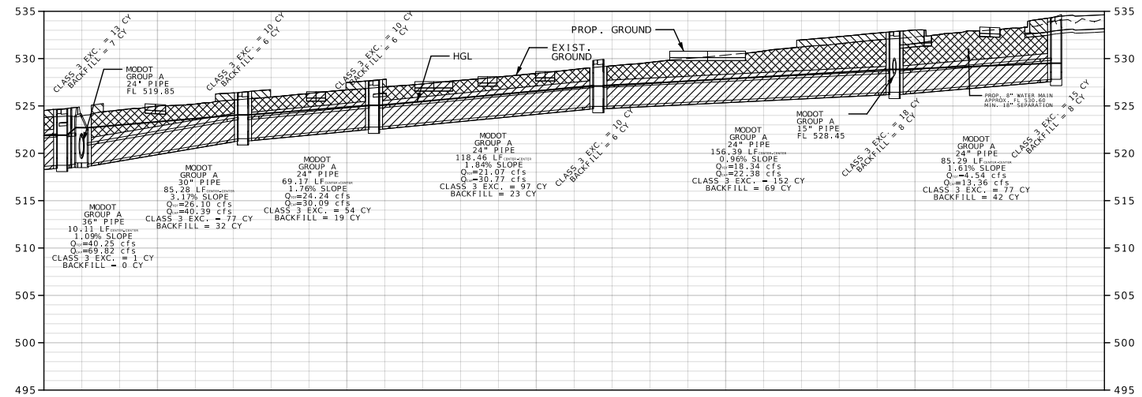
CULVERT SHEET
1 OF 10

Node Name	1-SH_1	1-SJ_1	1-SJ_2	1-SJ_3	1-SJ_4	1-SJ_5



Structure Type	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET
Station & Offset	100+99.28 26.54' LT	101+45.83 26.5' LT	102+55.10 26.5' LT	103+31.60 26.5' LT	104+12.37 26.5' LT	104+85.47 26.5' LT
Top Elev.	518.41	518.67	519.30	519.97	520.89	521.99
Sill Elev.	517.91	518.17	518.80	519.47	520.39	521.49
Invert Elev.	512.17	512.42 / 512.42	513.05 / 513.05	513.97 / 513.97	514.89 / 514.89	515.99 / 515.99
Bottom Elev.	512.07	512.42	513.05	513.97	514.89	515.99
HGL Elev.	517.24	518.48	519.68	520.09	520.57	520.95

Node Name	1-SJ_6	1-SJ_7	1-SJ_8	1-SJ_9	1-SJ_10	1-SJ_11	1-SJ_12



Structure Type	MODIFIED TYPE T INLET	72" MH	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET	MODIFIED TYPE T INLET
Station & Offset	106+47.02 26.5' LT	106+56.70 29.4' LT	107+41.94 26.5' LT	108+11.05 26.5' LT	109+29.56 26.5' LT	110+85.95 26.5' LT	111+71.27 26.5' LT
Top Elev.	524.74	524.85	526.55	527.77	529.95	532.95	534.32
Sill Elev.	524.24	524.85	526.05	527.27	529.45	532.45	533.82
Invert Elev.	518.74 / 518.74	518.85 / 518.85	521.55 / 521.55	522.77 / 522.77	524.95 / 524.95	526.45 / 526.45	527.82
Bottom Elev.	518.74	518.85	521.55	522.77	524.95	526.45	527.82
HGL Elev.	521.92	522.71	524.06	525.07	527.11	528.86	529.52

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LEGEND
CLASS 3 EXCAVATION
BACKFILL

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PARTIAL REMOVAL OR CONVERSION OF A STRUCTURE:
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SEWERS AT GRADES OF 1% OR LESS:
FOR SEWER PIPE (STORM, SANITARY, AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.

STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	189

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROUTE D
CULVERT SHEET
2 OF 10

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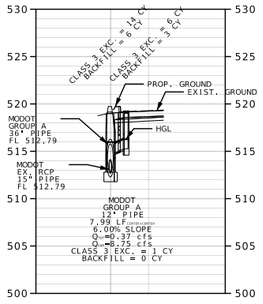
LEGEND
CLASS 3 EXCAVATION
BACKFILL

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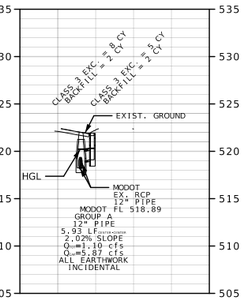
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Node Name	1-5A_2	1-5C_1



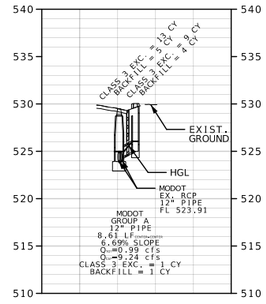
Structure Type	48" MH	TYPE A INLET
Station & Offset	103+24.60 27.76' RT	103+31.42 23.53' RT
Top Elev.	519.74	519.27
Sill Elev.	519.74	519.27
Invert Elev.	514.79	515.27
Bottom Elev.	512.79	515.27
HGL Elev.	515.98	516.28

Node Name	1-5A_5	1-5E_1



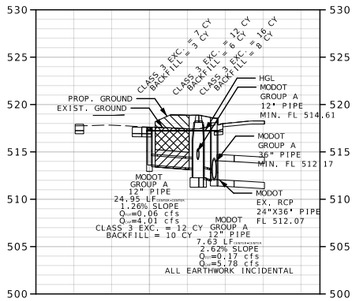
Structure Type	48" MH W/ LOCKING LID	2 GI W. SIDE INTAKE
Station & Offset	105+38.40 27.60' RT	105+38.40 33.59' RT
Top Elev.	521.91	522.01
Sill Elev.	521.91	522.01
Invert Elev.	518.99	519.11
Bottom Elev.	518.89	519.11
HGL Elev.	520.22	520.31

Node Name	1-5A_7	1-5G_1



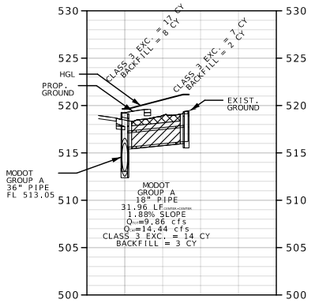
Structure Type	48" MH W/ LOCKING LID	TYPE T INLET
Station & Offset	109+48.95 28.22' RT	109+48.95 36.40' RT
Top Elev.	529.48	529.99
Sill Elev.	529.48	529.49
Invert Elev.	524.41	524.99
Bottom Elev.	523.91	524.99
HGL Elev.	524.98	526.06

Node Name	1-5J_1	1-5H_3	1-5H_1



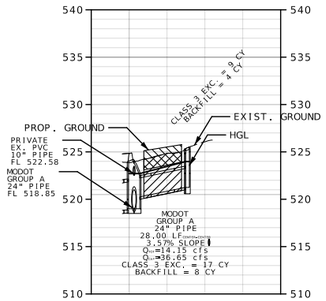
Structure Type	TYPE A INLET	48" MH	MODIFIED TYPE T INLET
Station & Offset	101+24.17 33.28' LT	100+98.17 34.36' LT	100+99.28 26.54' LT
Top Elev.	517.61	518.87	518.41
Sill Elev.	517.61	518.87	517.91
Invert Elev.	513.61	513.27 / 512.27	512.07 / 512.07
Bottom Elev.	513.61	512.27	512.07
HGL Elev.	517.24	517.24	517.24

Node Name	1-5J_2	1-5K_1



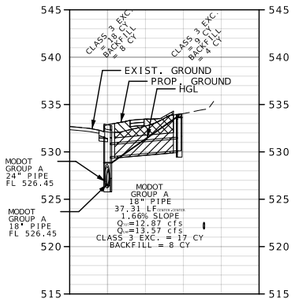
Structure Type	MODIFIED TYPE T INLET	TYPE A INLET
Station & Offset	102+55.10 26.50' LT	102+74.06 52.27' LT
Top Elev.	519.30	519.25
Sill Elev.	518.80	519.25
Invert Elev.	515.60	516.20
Bottom Elev.	513.05	516.20
HGL Elev.	519.68	521.17

Node Name	1-5J_7	1-5L_1



Structure Type	72" MH (R. EXIST. INLET)	TYPE A INLET
Station & Offset	106+56.70 29.41' LT	106+73.80 51.51' LT
Top Elev.	524.85	525.58
Sill Elev.	524.85	525.58
Invert Elev.	518.85 / 520.25	521.25
Bottom Elev.	518.85	521.25
HGL Elev.	522.71	524.01

Node Name	1-5J_11	1-5M_1



Structure Type	MODIFIED TYPE T INLET	TYPE A INLET
Station & Offset	110+85.95 26.56' LT	111+13.10 52.17' LT
Top Elev.	532.95	534.12
Sill Elev.	532.45	534.12
Invert Elev.	529.50	530.12
Bottom Elev.	526.45	530.12
HGL Elev.	528.86	533.64

STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	190

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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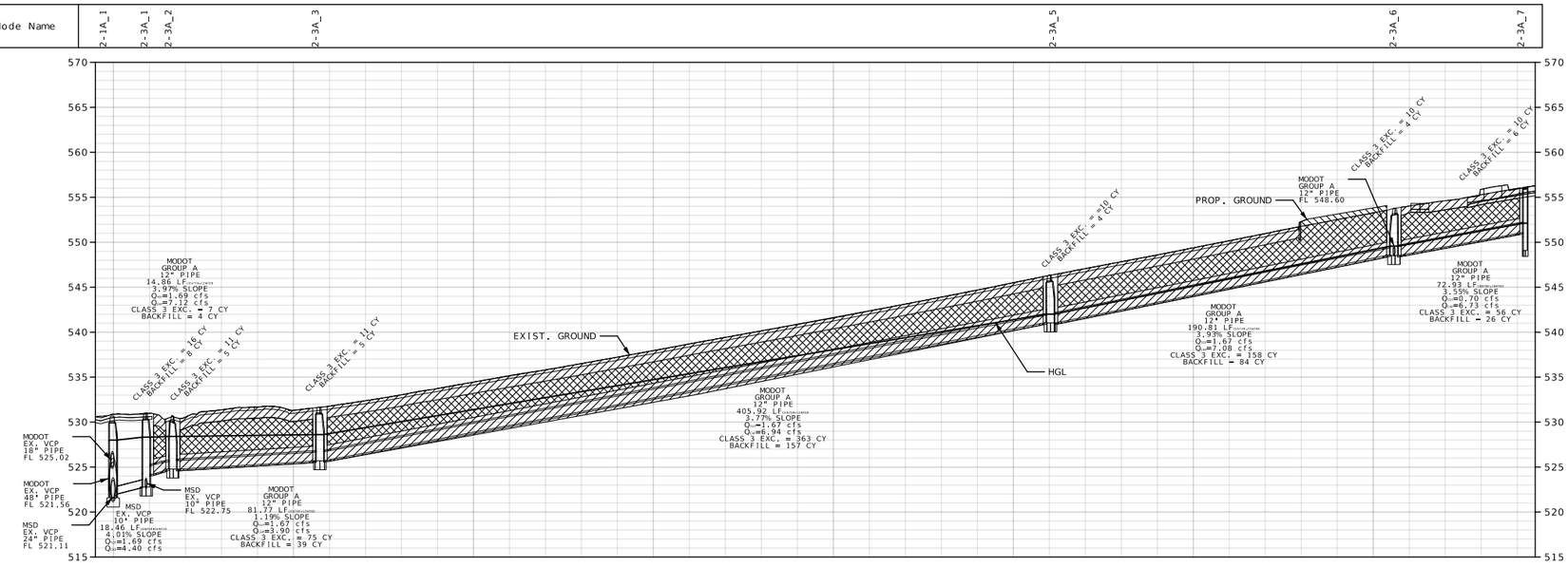
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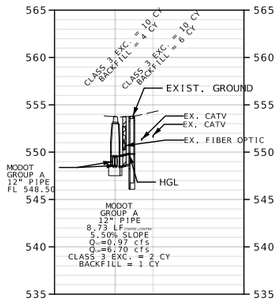
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ROUTE D
CULVERT SHEET
3 OF 10



Structure Type	EX. MH (ATG)	48" MH W/ LOCKING LID	48" MH W/ LOCKING LID	48" MH W/ LOCKING LID	48" MH W/ LOCKING LID	48" MH W/ LOCKING LID	TYPE A INLET, TRAPPED
Station & Offset	119+41.62 31.3' RT	119+67.48 31.1' RT	119+77.11 20.4' RT	120+58.82 24.5' RT	124+66.24 28.2' RT	126+54.79 28.1' RT	127+27.12 18.4' RT
Top Elev.	530.66	531.00	530.60	531.20	546.33	553.82	556.09
Sill Elev.	530.66	531.00	530.60	531.20	546.33	553.82	556.09
Invert Elev.	522.01	522.75 / 524.14	524.73 / 524.73	525.70 / 525.70	541.00 / 541.00	548.50 / 548.50	551.09
Bottom Elev.	520.13	522.75	524.73	525.70	541.00	548.50	551.09
HGL Elev.	528.06	528.33	528.40	528.62	542.01	549.56	552.12

Node Name	2-3A_6	2-3B_1



Structure Type	48" MH W/ LOCKING LID	TYPE A INLET TRAPPED
Station & Offset	126+54.79 28.1' RT	126+58.44 35.8' RT
Top Elev.	553.75	553.82
Sill Elev.	553.75	553.82
Invert Elev.	548.60	548.75
Bottom Elev.	548.50	546.75
HGL Elev.	549.56	549.81

LEGEND
- CLASS 3 EXCAVATION
- BACKFILL

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PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

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D	MO
DISTRICT	SHEET NO.
SL	191

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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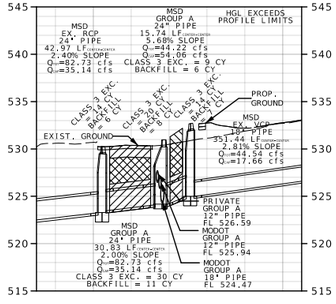
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ROUTE D

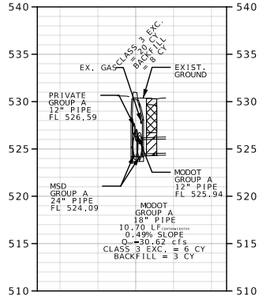
CULVERT SHEET
4 OF 10

Node Name	MSD# 17J2-064C	2-5A_1	2-5A_2



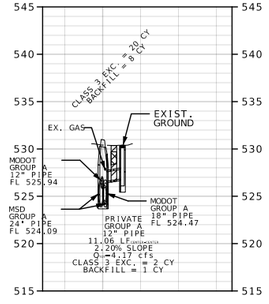
Structure Type	48" MH (R&R)	72" MH	48" MH
Station & Offset	119+90.60 39.0' LT	120+21.36 37.7' LT	120+36.35 42.1' LT
Top Elev.	530.23	530.88	532.65
Sill Elev.	530.23	530.88	532.65
Invert Elev.	523.26 / 523.47	524.09 / 524.09	524.98 / 524.98
Bottom Elev.	523.26	524.09	524.98
HGL Elev.	543.27	556.90	564.87

Node Name	2-5A_1	2-5B_1



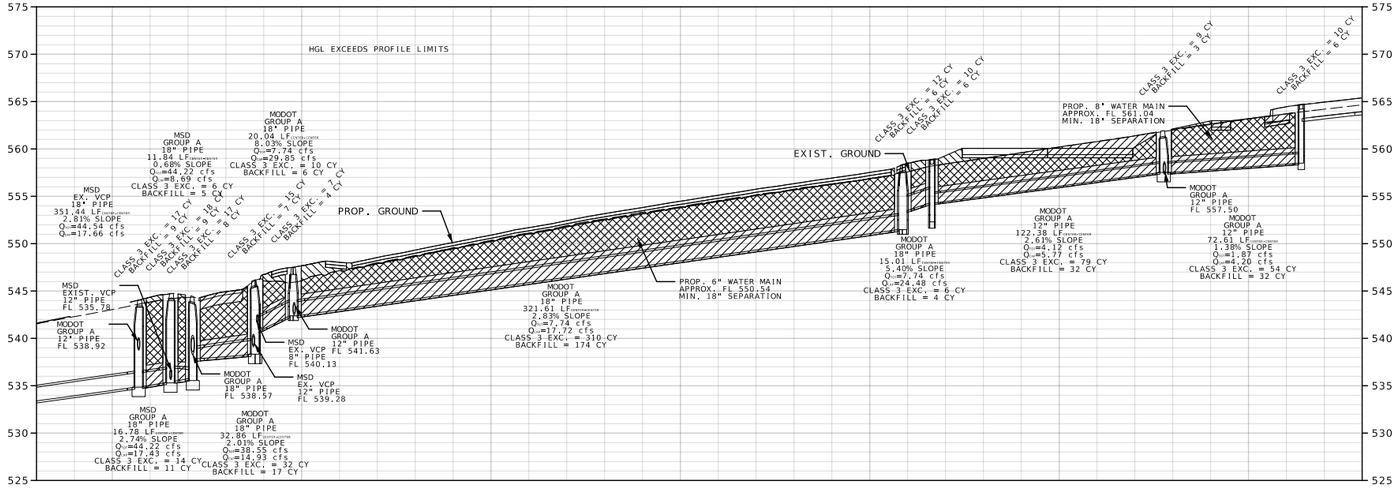
Structure Type	72" MH	TYPE C PIPE COLLAR
Station & Offset	120+21.36 37.7' LT	120+18.35 47.5' LT
Top Elev.	530.88	----
Sill Elev.	530.88	----
Invert Elev.	524.47 / 524.53	
Bottom Elev.	524.09	524.53
HGL Elev.	----	----

Node Name	2-5A_1	2-5C_1



Structure Type	72" MH	EX. GRATE INLET (UIP)
Station & Offset	120+21.36 37.7' LT	120+36.35 42.1' LT
Top Elev.	530.88	530.38
Sill Elev.	530.88	530.38
Invert Elev.	526.59 / 526.83	
Bottom Elev.	524.09	526.83
HGL Elev.	----	----

Node Name	2-5A_3	MSD# 17H1-052C	2-5A_4	MSD# 17H1-055C	MSD# 17H1-001D	2-5A_8	2-5A_9	2-5A_10	2-5A_11



Structure Type	48" MH	48" MH (R&R)	48" MH	48" MH	48" MH	48" MH W/ LOCKING LID	TYPE T INLET TRAPPED	48" MH W/ LOCKING LID	TYPE T INLET
Station & Offset	123+87.80 42.0' LT	124+05.07 41.9' LT	124+16.20 41.4' LT	124+49.28 42.3' LT	124+65.22 30.3' LT	127+86.95 29.5' LT	127+99.61 21.5' LT	129+22.02 21.5' LT	129+94.60 21.5' LT
Top Elev.	544.05	544.73	544.36	546.13	547.51	558.34	558.50	561.90	564.30
Sill Elev.	544.05	544.73	544.36	546.13	547.51	558.34	558.00	561.90	563.80
Invert Elev.	534.84 / 534.84	535.30 / 535.42	535.50 / 537.64	538.30 / 540.77	542.38 / 542.38	551.49 / 553.49	554.30 / 554.30	557.50 / 557.50	558.50
Bottom Elev.	534.84	535.30	535.50	538.30	542.38	551.49	552.30	557.50	558.50
HGL Elev.	630.56	633.67	637.93	649.24	649.49	651.36	651.70	653.85	654.23

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- BACKFILL

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TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 192
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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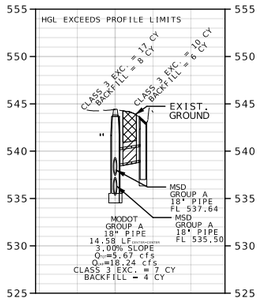
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ROUTE D
CULVERT SHEET 5 OF 10

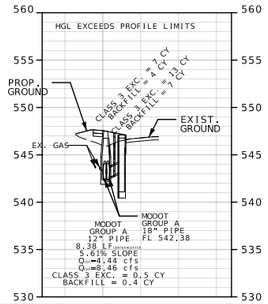
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Node Name	2-5A_4	2-5E_1



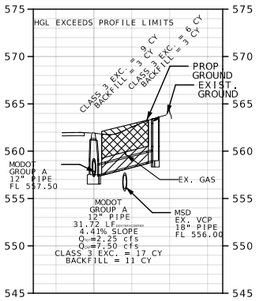
Structure Type	48" MH	TYPE S-3 INLET, TRAPPED
Station & Offset	126+16.20 41.4' LT	124+17.57 55.8' LT
Top Elev.	544.36	543.01
Sill Elev.	544.36	543.01
Invert Elev.	538.57	539.01
Bottom Elev.	535.50	537.01
HGL Elev.	637.93	638.40

Node Name	MSD 17H1-001D	2-5H_1



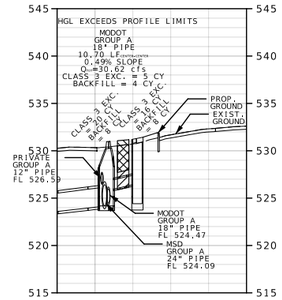
Structure Type	48" MH	MODIFIED TYPE T INLET, TRAPPED
Station & Offset	124+65.22 30.3' LT	124+65.38 21.5' LT
Top Elev.	547.51	547.10
Sill Elev.	547.51	546.60
Invert Elev.	542.63	543.10
Bottom Elev.	542.38	540.00
HGL Elev.	649.49	650.70

Node Name	2-5A_10	2-5I_1



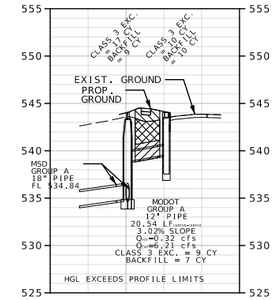
Structure Type	48" MH W/ LOCKING LID	TYPE A INLET
Station & Offset	129+22.02 21.2' LT	129+40.13 51.2' LT
Top Elev.	561.90	563.58
Sill Elev.	561.90	563.58
Invert Elev.	557.60	559.00
Bottom Elev.	557.50	559.00
HGL Elev.	653.85	654.30

Node Name	2-5A_1	2-5J_1



Structure Type	72" MH	MODIFIED TYPE T INLET, TRAPPED
Station & Offset	120+21.36 37.7' LT	120+32.86 27.5' LT
Top Elev.	530.88	530.91
Sill Elev.	530.88	530.41
Invert Elev.	524.09 525.94	526.41
Bottom Elev.	524.09	524.41
HGL Elev.	556.90	557.90

Node Name	2-5A_3	2-5K_1



Structure Type	48" MH	TYPE T INLET, TRAPPED
Station & Offset	123+87.80 42.0' LT	123+87.80 21.6' LT
Top Elev.	544.05	543.53
Sill Elev.	544.05	543.03
Invert Elev.	534.84 538.92	539.54
Bottom Elev.	534.84	534.84
HGL Elev.	630.56	630.56

LEGEND
CLASS 3 EXCAVATION
BACKFILL

ATG REMOVE REPLACE OR REHAB NOTE:
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ROUTE D
CULVERT SHEET
6 OF 10

STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	193

COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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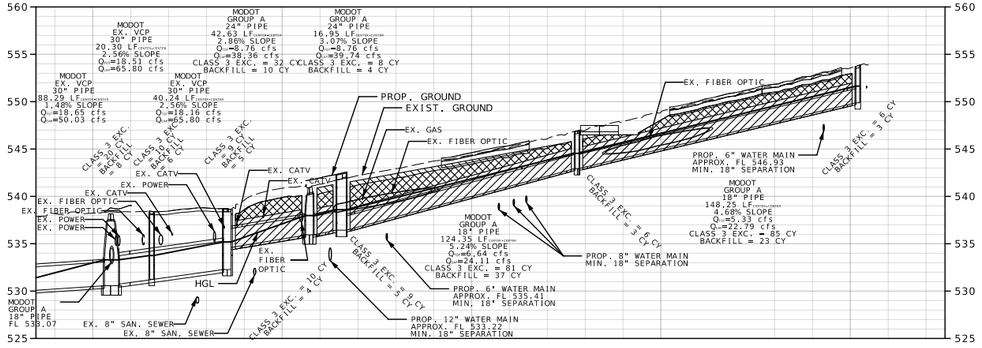
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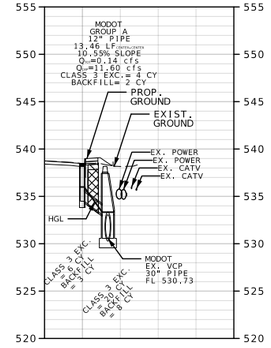
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Node Name	17H1-068D	3-1C_1	17H1-067D	3-3C_1	3-3C_2	3-3C_3	3-3C_4



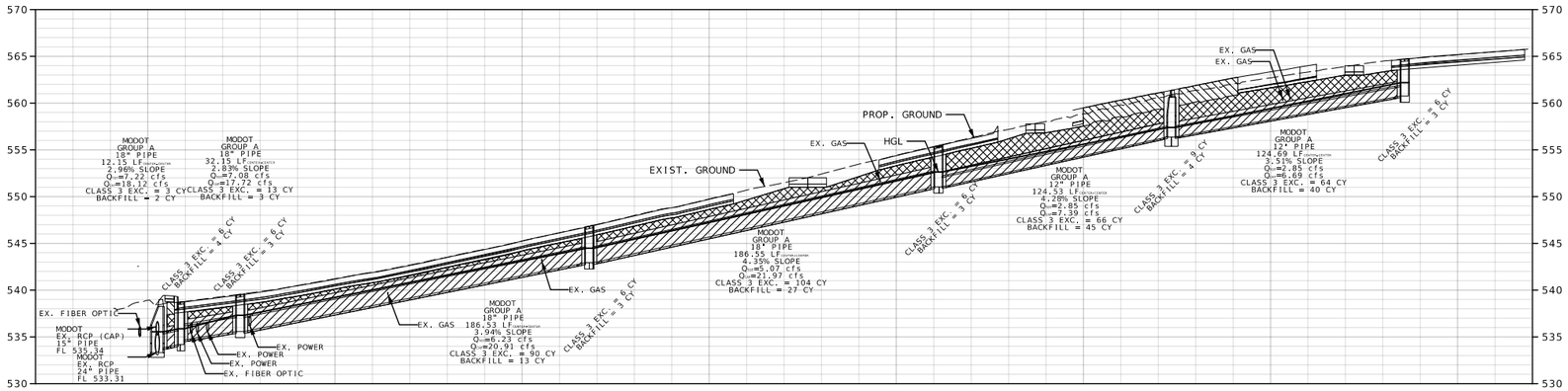
Structure Type	72" MH (R. EX. INLET)	TYPE A GRATE INLET	MODIFIED TYPE A GRATE INLET (R. EX. INLET)	48" MH	TYPE T INLET	MODIFIED TYPE A GRATE INLET	MODIFIED TYPE A GRATE INLET
Station & Offset	140+52.14 35.1' RT	140+32.66 42.1' RT	139+95.24 55.3' RT	139+60.48 30.6' RT	139+43.60 32.0' RT	138+19.25 30.5' RT	136+70.97 30.4' RT
Top Elev.	538.17	538.39	538.63	540.91	541.93	546.94	553.88
Sill Elev.	538.17	538.39	538.63	540.91	541.01	546.94	553.88
Invert Elev.		530.73 / 531.25	531.25 / 532.28	534.69 / 535.91	535.91 / 536.43	542.94 / 542.94	549.88
Bottom Elev.	530.73	531.25	532.28	535.91	536.43	542.94	549.88
HGL Elev.	533.30	533.76	535.19	537.98	538.59	544.54	551.65

Node Name	3-2C_1	17H1-068D



Structure Type	TYPE A GRATE INLET	72" MH (R. EX. INLET)
Station & Offset	140+52.61 22.2' RT	140+52.14 35.1' RT
Top Elev.	538.49	538.17
Sill Elev.	538.49	538.17
Invert Elev.	534.49 / 533.07	
Bottom Elev.	534.49	530.73
HGL Elev.	535.99	533.30

Node Name	17H1-074D	3-1E_1	3-1E_2	3-1E_3	3-1E_4	3-1E_5	3-1E_6



Structure Type	72" MH (R. EX. INLET)	TYPE A GRATE INLET	TYPE A GRATE INLET	TYPE A GRATE INLET	48" MH	TYPE A GRATE INLET
Station & Offset	140+42.24 35.6' LT	140+41.33 23.5' LT	140+09.13 24.0' LT	138+22.67 26.8' LT	136+36.12 27.0' LT	135+00.47 32.3' LT	133+76.73 23.0' LT
Top Elev.	539.00	538.77	539.58	546.93	555.05	561.38	564.76
Sill Elev.	539.00	538.77	539.58	546.93	555.05	561.38	564.76
Invert Elev.	533.31 / 533.81	534.17 / 534.67	535.58 / 535.58	542.93 / 542.93	551.05 / 551.05	556.38 / 556.38	560.76
Bottom Elev.	533.31	534.17	535.58	542.93	551.05	556.38	560.76
HGL Elev.	535.54	535.86	537.31	544.49	552.63	557.39	562.19

LEGEND
CLASS 3 EXCAVATION
BACKFILL

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STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED 7/3/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 194
COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

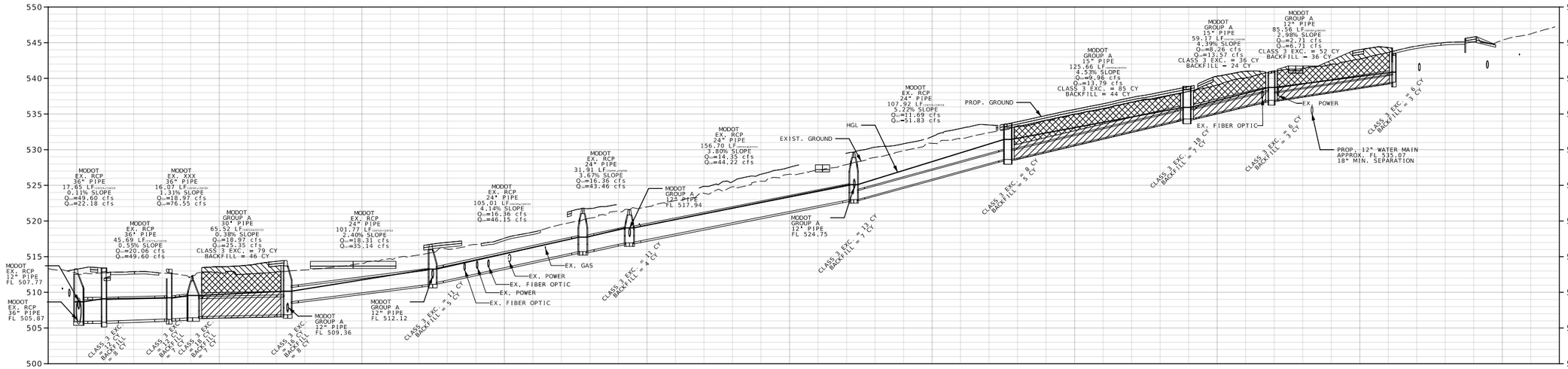
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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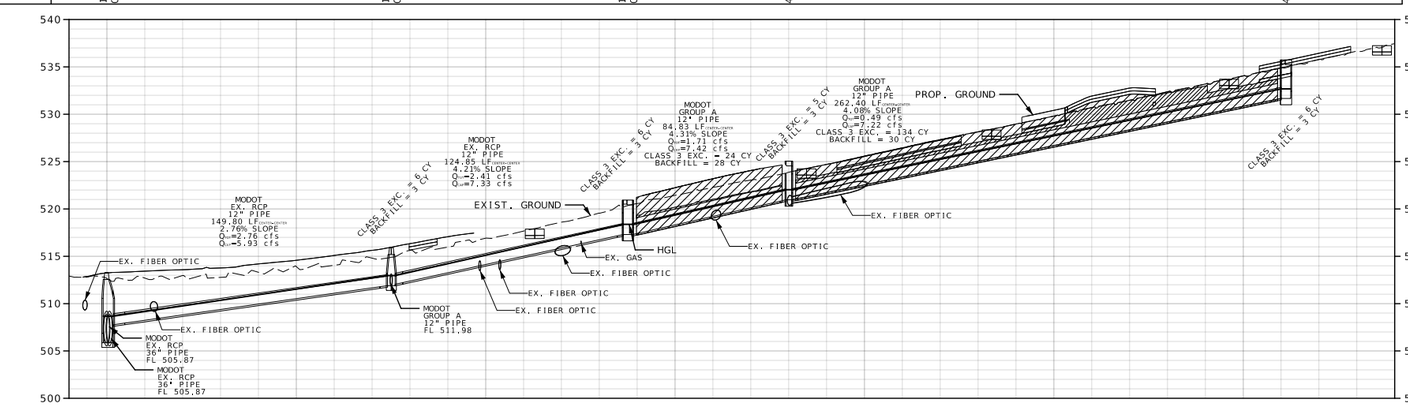
ROUTE D
CULVERT SHEET 7 OF 10

Node Name	17H1-089D	4-2C_1	4-2C_2	17H1-091D	17H1-092D	4-2C_3	17H1-094D	4-2C_4	17H1-096D	4-2C_5	4-2C_6	4-2C_7	4-2C_8



Structure Type	EX. INLET (CONVERT TO MH)	TYPE T INLET	TYPE T INLET	72" MH (R. EX. INLET)	60" MH (R. EX. INLET)	60" MH	EX. INLET (CONVERT TO MH)	60" MH	60" MH (R. EX. INLET)	TYPE T INLET	MODIFIED TYPE T INLET	TYPE A GRATE INLET	TYPE A GRATE INLET
Station & Offset	153+62.87 38.4' RT	153+63.57 21.4' RT	153+65.19 24.0' LT	153+65.42 40.4' LT	154+30.81 35.1' LT	155+32.05 38.7' LT	155+36.78 39.7' LT	156+69.50 39.0' LT	158+27.40 40.8' LT	159+34.47 32.7' LT	160+59.25 34.3' LT	161+17.51 38.2' LT	162+03.28 25.8' LT
Top Elev.	513.30	513.37	513.18	512.36	514.46	516.72	521.79	521.60	529.65	533.63	538.82	540.92	543.47
Sill Elev.	513.30	512.87	512.68	512.36	514.46	516.72	521.79	521.60	529.65	533.13	538.32	540.92	543.47
Invert Elev.	505.87 / 505.95	505.97 / 505.97	506.22 / 506.22	506.43 / 506.61	506.86 / 508.68	511.12 / 511.37	515.72 / 515.77	516.94 / 517.04	523.00 / 523.00	528.63 / 528.63	534.32 / 534.32	536.92 / 536.92	539.47
Bottom Elev.	505.87	505.97	506.22	506.43	506.86	511.12	515.72	516.94	523.00	528.63	534.32	536.92	539.47
HGL Elev.	508.67	509.09	509.23	509.55	510.15	513.25	517.73	519.03	525.10	531.45	535.94	538.73	540.87

Node Name	17H1-089D	17H1-090D	17H1-093D	4-1C_1	4-1C_2



Structure Type	EX. INLET (CONVERT TO MH)	48" MH (R. EX. INLET)	TYPE T INLET (R. EX. GRATE INLET)	TYPE T INLET	TYPE T INLET
Station & Offset	153+62.87 38.4' RT	155+12.46 34.7'RT	156+37.22 28.9' RT	157+22.50 26.5' RT	159+84.41 29.5'RT
Top Elev.	513.30	515.93	520.85	524.93	535.67
Sill Elev.	513.30	515.93	520.35	524.46	535.17
Invert Elev.	505.87 / 507.77	511.90 / 512.04	517.30 / 517.30	520.96 / 520.96	531.67
Bottom Elev.	505.87	511.90	517.30	520.96	531.67
HGL Elev.	508.67	512.96	518.37	522.03	532.68

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CLASS 3 EXCAVATION
BACKFILL

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ROUTE D
CULVERT SHEET
8 OF 10

STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	195

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.
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PROJECT NO.
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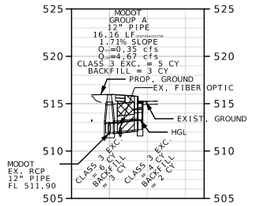
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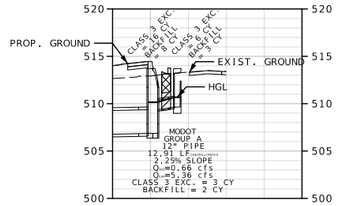
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Node Name	17H1-090D	4-3C_1



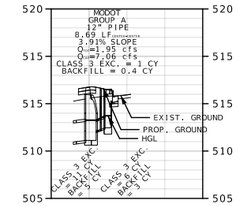
Structure Type	60" MH (R. EX. INLET)	TYPE A GRATE INLET
Station & Offset	155+12.46 34.7' RT	155+12.51 18.7' RT
Top Elev.	515.93	515.26
Sill Elev.	515.93	515.26
Invert Elev.	511.90 / 511.98	512.26
Bottom Elev.	511.90	512.26
HGL Elev.	512.96	513.27

Node Name	17H1-092D	4-4C_1



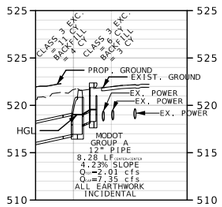
Structure Type	60" MH (R. EX. INLET)	TYPE T INLET
Station & Offset	154+30.81 35.1' LT	154+30.80 23.5' LT
Top Elev.	514.43	513.65
Sill Elev.	514.46	513.15
Invert Elev.	506.86 / 509.36	509.65
Bottom Elev.	506.86	509.65
HGL Elev.	510.15	510.68

Node Name	4-2C_3	4-5C_1



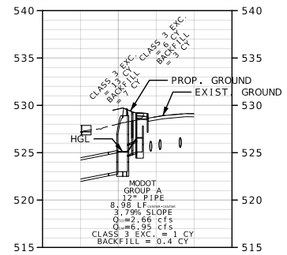
Structure Type	60" MH	TYPE T INLET
Station & Offset	155+32.05 38.7' LT	155+32.17 28.6' LT
Top Elev.	516.72	516.46
Sill Elev.	516.72	515.96
Invert Elev.	511.12 / 512.12	512.46
Bottom Elev.	511.12	512.46
HGL Elev.	513.25	513.72

Node Name	4-2C_4	4-6C_1



Structure Type	60" MH	TYPE T INLET
Station & Offset	156+69.50 39.0' LT	156+69.43 31.9' LT
Top Elev.	521.60	522.29
Sill Elev.	521.60	521.79
Invert Elev.	516.94 / 517.94	518.29
Bottom Elev.	516.94	518.29
HGL Elev.	519.03	519.56

Node Name	17H1-096D	4-7C_1



Structure Type	60" MH (R. EX. INLET)	TYPE T INLET
Station & Offset	158+27.40 40.8' LT	158+26.08 32.4' LT
Top Elev.	529.65	529.09
Sill Elev.	529.65	528.59
Invert Elev.	523.00 / 524.75	525.09
Bottom Elev.	523.00	525.09
HGL Elev.	525.10	526.57

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BACKFILL

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ROUTE D
CULVERT SHEET
9 OF 10

STATE OF MISSOURI
TODD EHLEN NUMBER PE-2006019649
PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED
7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	196

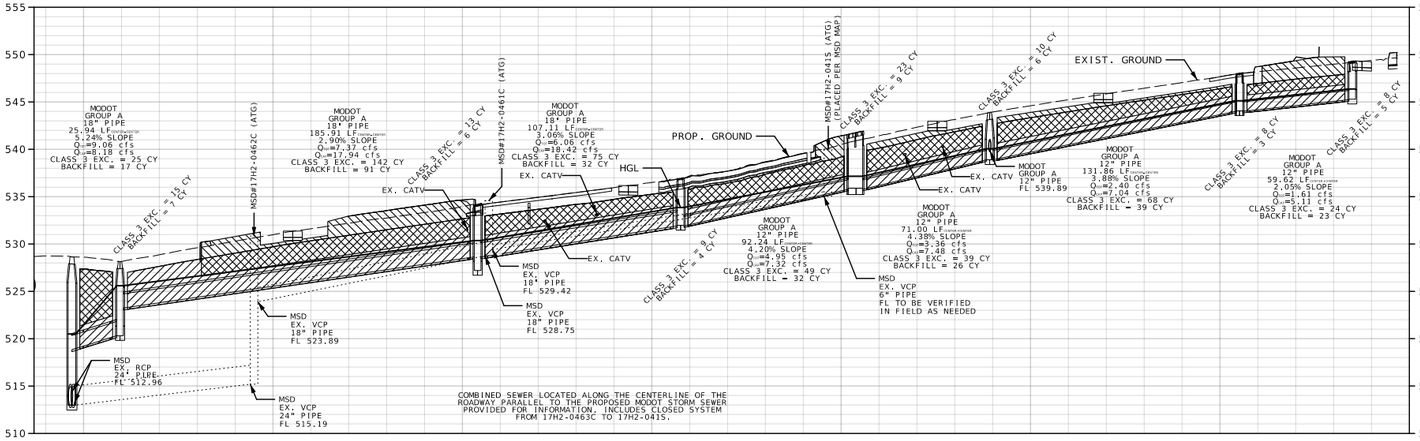
COUNTY
ST. LOUIS
JOB NO.
J6S3215B
CONTRACT ID.
.
PROJECT NO.
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BRIDGE NO.
.

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

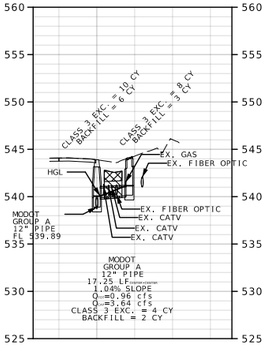
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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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Node Name	17H2-0463C	5-2A_1	5-2B-1	5-2B-2	5-2B-3	5-2B-4	5-2B-5	5-2B-6



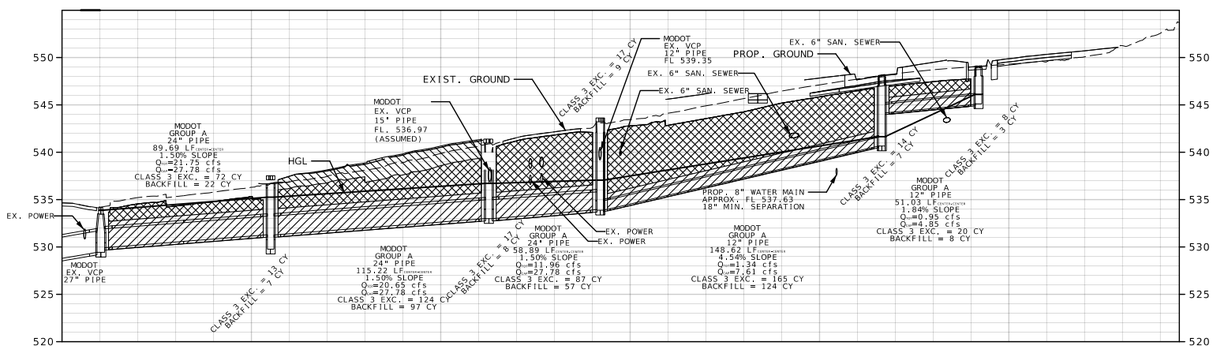
Structure Type	48" MH W/ LOCKING LID (R&R)	48" MH W/ LOCKING LID	2 GRATE INLET W/ SIDE INTAKE, TRAPPED	2 GRATE INLET W/ SIDE INTAKE	DOUBLE STREET INLET, UNIT B	48" MH W/ LOCKING LID	2 GRATE INLET W/ SIDE INTAKE	2 GRATE INLET W/ SIDE INTAKE
Station & Offset	172+88.45 3.08' LT	172+85.22 22.4' RT	170+99.34 22.4' RT	169+92.23 26.3' RT	168+97.04 23.8' RT	168+23.74 20.0' RT	166+89.65 18.5' RT	166+31.27 23.8' RT
Top Elev.	528.64	528.24	534.13	536.91	541.28	543.89	548.01	549.23
Sill Elev.	528.64	528.24	534.13	536.91	540.78	543.89	548.01	549.23
Invert Elev.	518.96	520.32 / 523.24	528.63 / 528.63	531.91 / 531.91	535.78 / 535.78	538.89 / 538.89	544.01 / 544.01	545.23
Bottom Elev.	512.96	520.32	527.13	531.91	535.78	538.89	544.01	543.23
HGL Elev.	520.50	525.60	530.40	533.85	537.15	540.05	545.11	546.37

Node Name	5-2B_4	5-2C_1



Structure Type	48" MH W/ LOCKING LID	2 GRATE INLET W/ SIDE INTAKE
Station & Offset	168+23.74 20.0' RT	168+24.22 39.1' RT
Top Elev.	543.89	544.07
Sill Elev.	543.89	544.07
Invert Elev.	539.89	540.07
Bottom Elev.	538.89	540.07
HGL Elev.	540.05	541.13

Node Name	17H2-029D	5-3A-1	5-3A-2	5-3A_3	5-3A_4	5-3A_5



Structure Type	60" MH (R&R)	AREA INLET, TRAPPED	SINGLE STREET INLET	SINGLE STREET INLET	2 GRATE INLET W/ SIDE INTAKE	2 GRATE INLET W/ SIDE INTAKE
Station & Offset	170+89.33 31.8' LT	169+99.92 27.8' LT	168+88.44 32.1' LT	168+33.90 35.5' LT	166+91.18 17.8' LT	166+39.71 24.8' LT
Top Elev.	534.08	537.23	541.38	543.27	548.12	549.06
Sill Elev.	534.08	536.73	540.88	542.77	548.12	549.06
Invert Elev.	529.43 / 529.92	531.27 / 531.27	532.99 / 532.99	533.88 / 533.88	540.62 / 544.12	545.06
Bottom Elev.	529.43	529.77	532.99	533.88	540.62	545.06
HGL Elev.	533.86	535.26	536.71	537.06	541.65	546.11

LEGEND
- CLASS 3 EXCAVATION
- BACKFILL

ATG REMOVE REPLACE OR REHAB NOTE:
THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.

PARTIAL REMOVAL OR CONVERSION OF A STRUCTURE:
THE PARTIAL REMOVAL, REPLACEMENT, AND CONVERSION OF THE EXISTING STRUCTURE(S) WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE AND THE TOP SECTION CAN BE CONVERTED AS PROPOSED AND STILL MEET MSD STANDARDS, THEN CONVERT AND ADJUST TO GRADE. OTHERWISE, THE ENTIRE STRUCTURE WILL BE REMOVED AND REPLACED WITH A NEW STRUCTURE.

SEWERS AT GRADES OF 1% OR LESS:
FOR SEWER PIPE (STORM, SANITARY, AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.

DISCLAIMER
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STATE OF MISSOURI * TODD EHLEN NUMBER PE-2006019649 * PROFESSIONAL ENGINEER
Todd Ehlen - Civil
MO PE-2006019649

DATE PREPARED 7/3/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	197

COUNTY ST. LOUIS
JOB NO. J6S3215B
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
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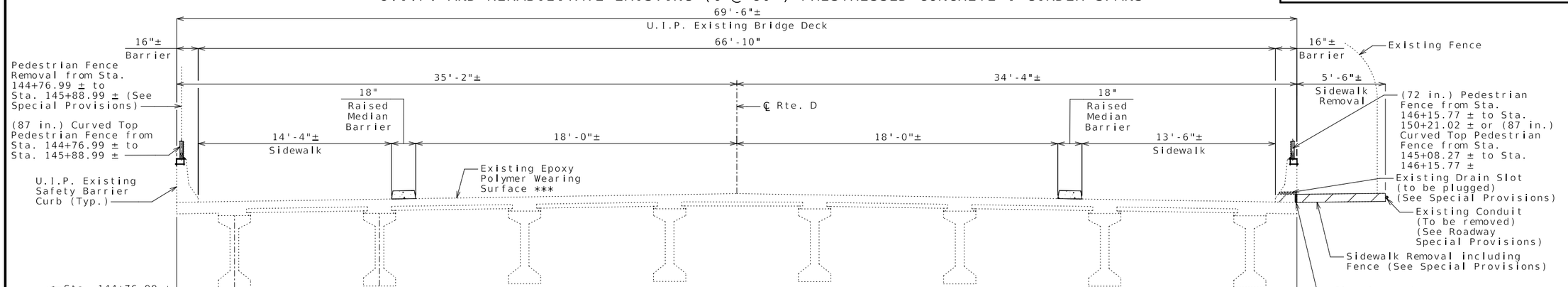
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ROUTE D
CULVERT SHEET 10 OF 10

U.I.P. AND REHABILITATE EXISTING (6 @ 80') PRESTRESSED CONCRETE I-GIRDER SPANS

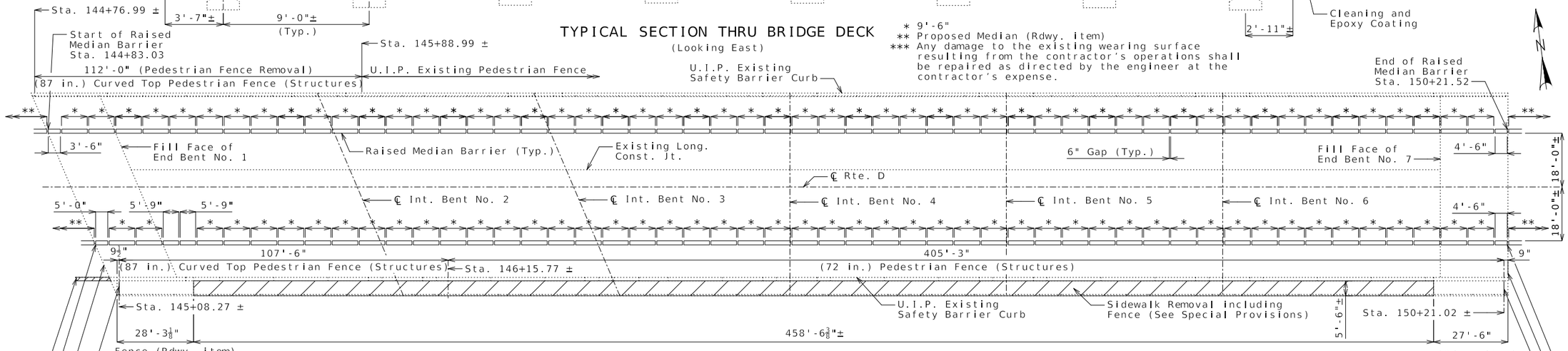
SEC/SUR 1 TWP 45N RGE 6E



TYPICAL SECTION THRU BRIDGE DECK

(Looking East)

* 9'-6"
** Proposed Median (Rdwy. item)
*** Any damage to the existing wearing surface resulting from the contractor's operations shall be repaired as directed by the engineer at the contractor's expense.



GENERAL PLAN

Note: Longitudinal dimensions are measured horizontal.

Median Barrier Notes:

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

Cost of furnishing and installing the resin anchor systems, epoxy coated reinforcing steel and concrete, complete in place, will be considered completely covered by the contract unit price for Raised Median Barrier.

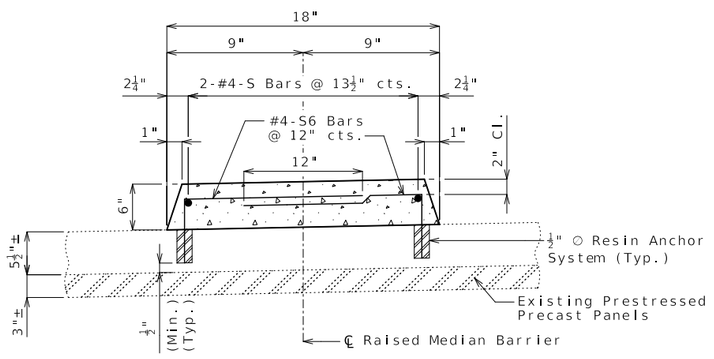
The minimum embedment depth in concrete for the resin anchor systems shall not be less than 5".

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

All reinforcing steel in Raised Median Barrier shall be epoxy coated.

Estimated Quantities

Item		Total
Removal of Pedestrian Fence	linear foot	112
Removal of Sidewalk	sq. foot	2522
(72 in.) Pedestrian Fence (Structures)	linear foot	406
(87 in.) Curved Top Pedestrian Fence (Structures)	linear foot	220
Raised Median Barrier	sq. foot	1512
Cleaning and Epoxy Coating	sq. foot	230
Grout Existing Barrier Drain Slots	each	24



SECTION THRU RAISED MEDIAN BARRIER

(Existing bridge deck shown, bridge approach slab similar)

Notes:

Resin anchors shall not be embedded into existing precast panels.

Raised Median Barrier quantity is based on 18" median width.

GENERAL NOTES

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:

HS20-44 (1997)

Design Unit Stresses:

Class B-1 Concrete (Median Barrier) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Traffic Handling:

Traffic to be maintained on structure during construction.
See roadway plans for traffic control.

Miscellaneous:

U.I.P = Use-in-place

Contractor shall verify all dimensions in field before finalizing the shop drawings.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Cleaning and Epoxy Coating shall be applied to the saw cut face of the removed sidewalk at barrier curb as shown for the entire length of the bridge.

For Chain Link Pedestrian Fence details, see Sheets No. 2 & 3.

REPAIRS TO BRIDGE: ROUTE D OVER METROLINK & ENGELHOLM CREEK

ROUTE D FROM ROUTE 170 TO ROUTE I-44
ABOUT 3.2 MILES EAST OF ROUTE 170
BEGINNING STATION 145+15.57± (MATCH EXISTING)

GENERAL PLAN, NOTES, SECTIONS AND ESTIMATED QUANTITIES

Detailed Jan. 2025
Checked Jan. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 4

STATE OF MISSOURI
JOSHUA D. JOLLIFF
NUMBER PE-2006002824
PROFESSIONAL ENGINEER
06/04/2025 11:49:56 AM
Joshua D. Jolliff
MO PE-2006002824

DATE PREPARED 6/4/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
BR	1

COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A53282

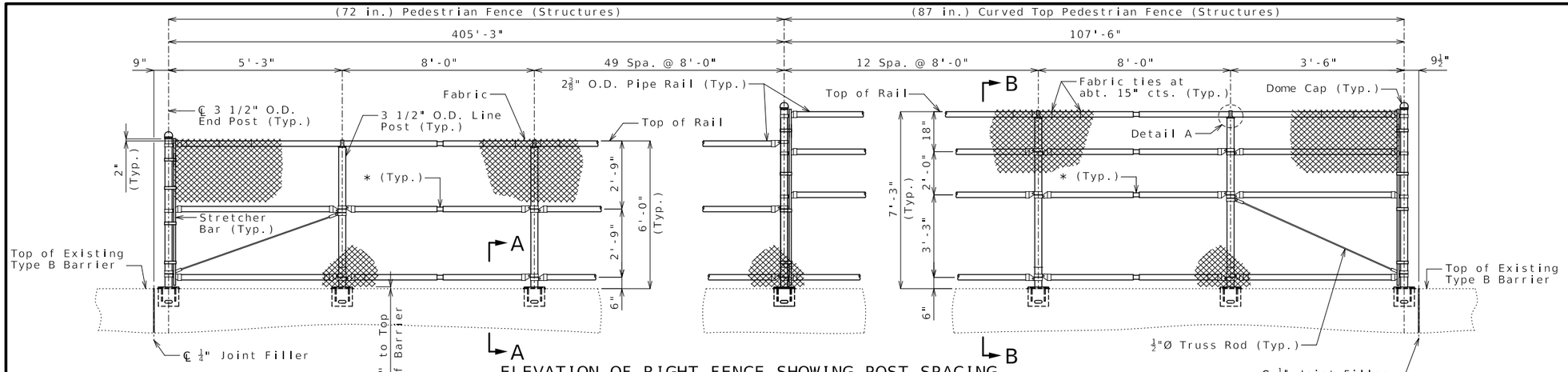
DESCRIPTION | DATE | REV.

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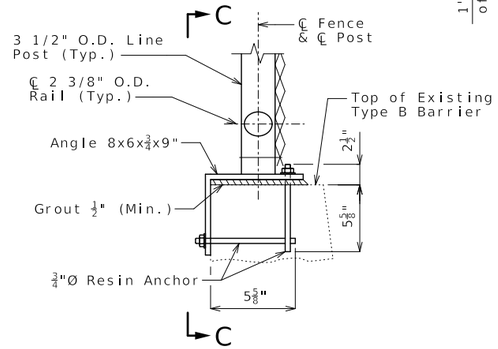
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ST. LOUIS, MO 63102 (314) 436-5500
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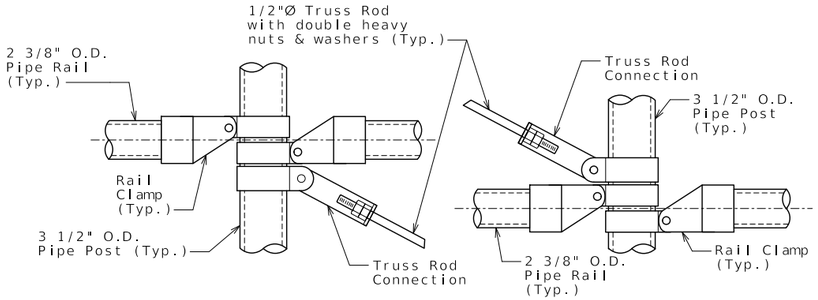
ELEVATION OF RIGHT FENCE SHOWING POST SPACING

Longitudinal dimensions are horizontal.
(Looking South)

* 3/8" Gap for splice at about 30'-0" centers with at least one splice gap between pull or end posts.

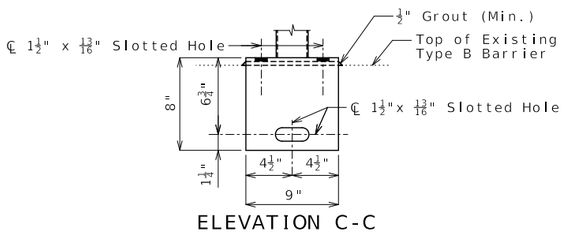


SECTION A-A

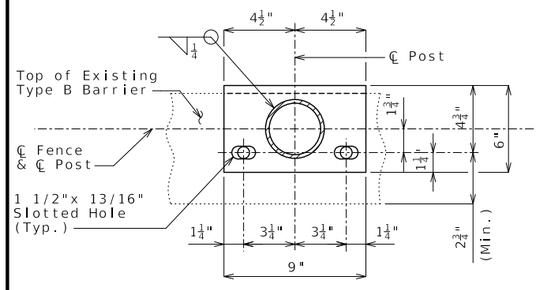


UPPER TRUSS ROD CONNECTION DETAIL

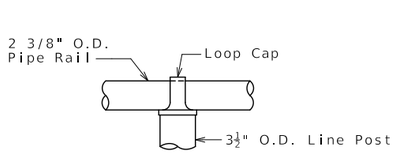
LOWER TRUSS ROD CONNECTION DETAIL



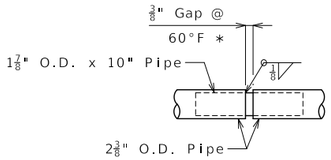
ELEVATION C-C



PART PLAN SHOWING CONNECTION PLATE

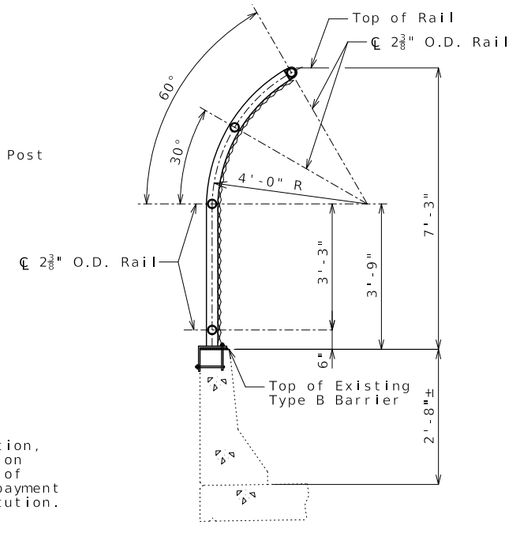


DETAIL A



TYPICAL RAIL DETAIL AT SPLICE GAP

Note: At the contractor's option, manufacturer-approved expansion coupling may be used in lieu of detail shown. No additional payment will be made for this substitution.



SECTION B-B

GENERAL NOTES:

Pedestrian chain link fence shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled and pipe members shall be in accordance with ASTM F1043, high strength grade (minimum yield = 50 ksi) heavy industrial steel pipe Group 1A.

All posts shall be vertical. Grout shall be placed under the post angles (horizontal leg) in accordance with Sec 1066.

Payment for furnishing, galvanizing and erecting the fence and frame, complete in place, will be considered completely covered by the contract unit price for (72 in.) Pedestrian Fence (Structures) or (87 in.) Curved Top Pedestrian Fence (Structures) per linear foot as applicable.

Dimensions of pedestrian chain link fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 feet. Post brace and 1/2-inch diameter truss rod are required for panels adjacent to pull post and end posts only. Connect the lower end of truss rod to bottom of pull posts and end posts to which the stretcher bar is attached.

Rail clamps, dome cap, bands, tie wires, stretcher bars and truss rod connections shall be in accordance with the manufacturer's recommendations. The truss rod and truss rod connections shall have a minimum capacity of 2000 pounds. Dome cap shall fit tightly.

Expansion joints shall be placed in the horizontal pieces at not more than 30-foot centers and at all joint filler locations in the barrier with a minimum gap of 3/8 inch at 60 degrees F.

Steel for truss rods shall be ASTM A709 Grade 36. Steel for angles shall be ASTM A709 Grade 50.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

All angles, resin anchors, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

Resin anchors shall be ASTM F1554 Grade 36.

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

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for (72 in.) Pedestrian Fence (Structures) or (87 in.) Curved Top Pedestrian Fence (Structures).

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 5/8 inches.

Pedestrian Fence (Structures) will be measured to the nearest linear foot for each structure, measured along the centerline fence from end of fence to end of fence.

Chain link wire fabric shall be 9 gage minimum, 2-inch diamond mesh.

The chain link fence shall be built in accordance with Sec 607 and Sec 1043.

RIGHT PEDESTRIAN CHAIN LINK FENCE

Detailed Jan. 2025
Checked Jan. 2025

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
JOSHUA D. JOLLIFF
NUMBER PE-2006002824
PROFESSIONAL ENGINEER
06/04/2025 11:52:00 AM
Joshua D. Jolliff
MO PE-2006002824

DATE PREPARED
6/4/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

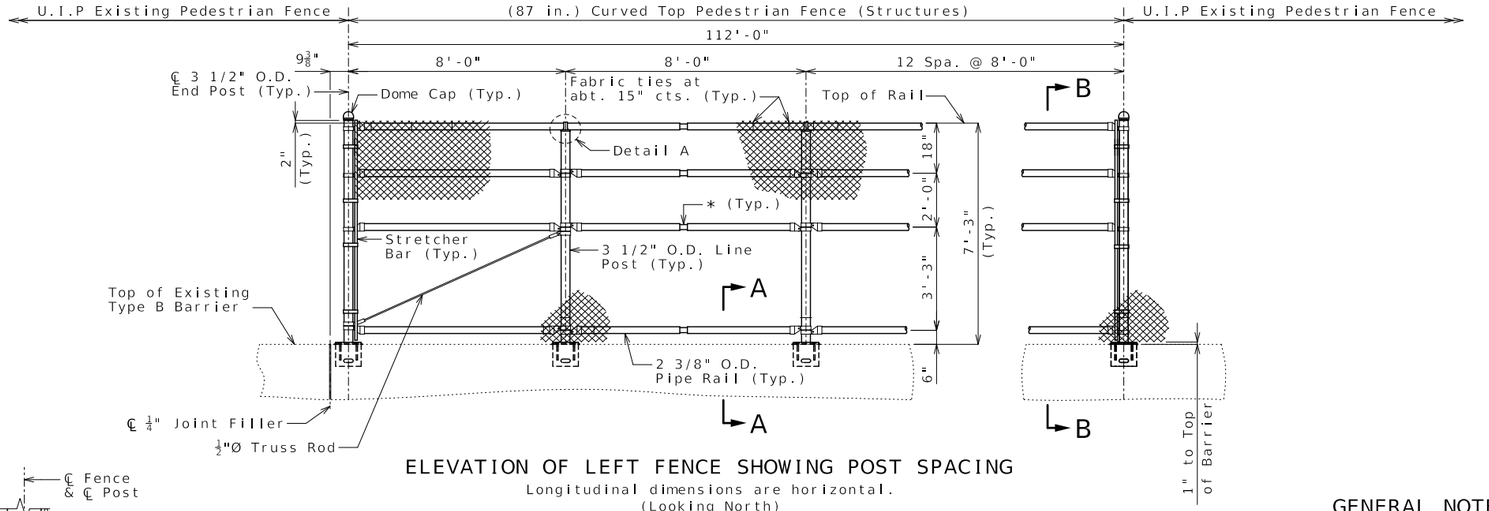
BRIDGE NO.
A53282

DESCRIPTION	DATE

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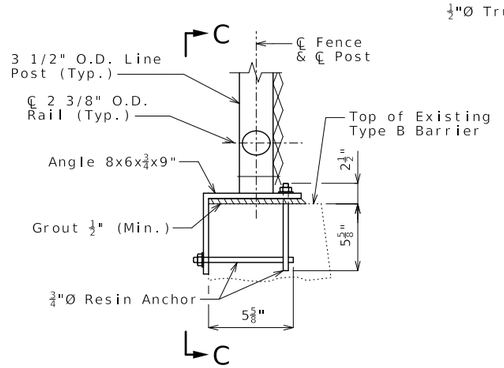
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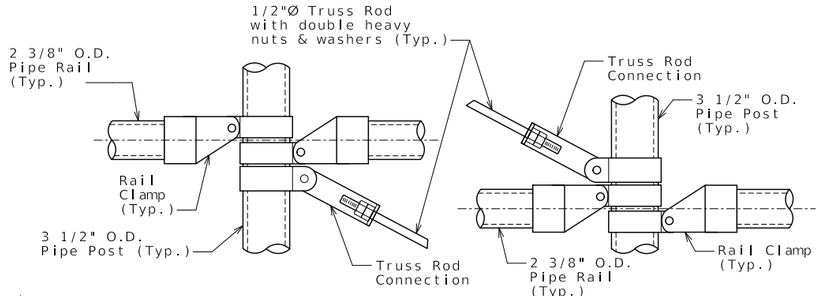
ELEVATION OF LEFT FENCE SHOWING POST SPACING

Longitudinal dimensions are horizontal.
(Looking North)

* 3/8" Gap for splice at about 30'-0" centers with at least one splice gap between pull or end posts.

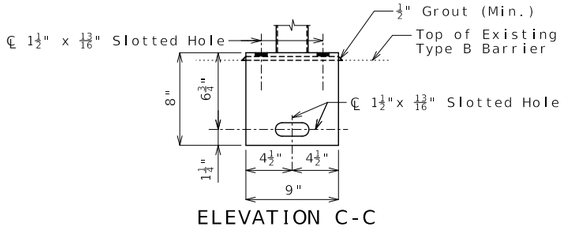


SECTION A-A

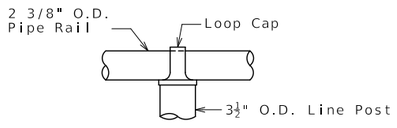


UPPER TRUSS ROD CONNECTION DETAIL

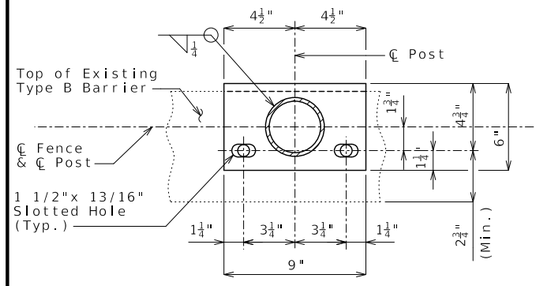
LOWER TRUSS ROD CONNECTION DETAIL



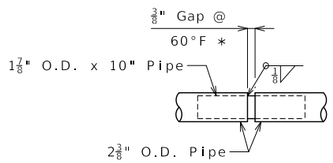
ELEVATION C-C



DETAIL A

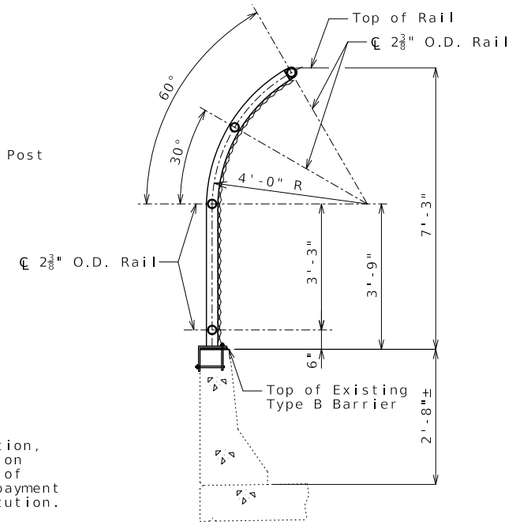


PART PLAN SHOWING CONNECTION PLATE



TYPICAL RAIL DETAIL AT SPLICE GAP

Note: At the contractor's option, manufacturer-approved expansion coupling may be used in lieu of detail shown. No additional payment will be made for this substitution.



SECTION B-B

GENERAL NOTES:

U.I.P = Use-in-place

Pedestrian chain link fence shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled and pipe members shall be in accordance with ASTM F1043, high strength grade (minimum yield = 50 ksi) heavy industrial steel pipe Group 1A.

All posts shall be vertical. Grout shall be placed under the post angles (horizontal leg) in accordance with Sec 1066.

Payment for furnishing, galvanizing and erecting the fence and frame, complete in place, will be considered completely covered by the contract unit price for (87 in.) Curved Top Pedestrian Fence (Structures) per linear foot.

Dimensions of pedestrian chain link fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 feet. Post brace and 1/2-inch diameter truss rod are required for panels adjacent to pull post and end posts only. Connect the lower end of truss rod to bottom of pull posts and end posts to which the stretcher bar is attached.

Rail clamps, dome cap, bands, tie wires, stretcher bars and truss rod connections shall be in accordance with the manufacturer's recommendations. The truss rod and truss rod connections shall have a minimum capacity of 2000 pounds. Dome cap shall fit tightly.

Expansion joints shall be placed in the horizontal pieces at not more than 30-foot centers and at all joint filler locations in the barrier with a minimum gap of 3/8 inch at 60 degrees F.

Steel for truss rods shall be ASTM A709 Grade 36. Steel for angles shall be ASTM A709 Grade 50.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

All angles, resin anchors, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

Resin anchors shall be ASTM F1554 Grade 36.

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

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for (87 in.) Curved Top Pedestrian Fence (Structures).

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 5/8 inches.

(87 in.) Curved Top Pedestrian Fence (Structures) will be measured to the nearest linear foot for each structure, measured along the centerline fence from end of fence to end of fence.

Chain link wire fabric shall be 9 gage minimum, 2-inch diamond mesh.

The chain link fence shall be built in accordance with Sec 607 and Sec 1043.

LEFT PEDESTRIAN CHAIN LINK FENCE

Detailed Jan. 2025
Checked Jan. 2025

Note: This drawing is not to scale. Follow dimensions.

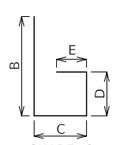
STATE OF MISSOURI
JOSHUA D. JOLLIFF
NUMBER PE-2006002824
PROFESSIONAL ENGINEER
06/04/2025 11:52:09 AM
Joshua D. Jolliff
MO PE-2006002824

DATE PREPARED: 6/4/2025
ROUTE: D | STATE: MO
DISTRICT: BR | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A53282

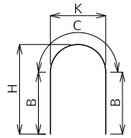
DESCRIPTION | DATE

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

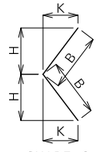
CMT
ENGINEERING CORPORATION - 000631
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
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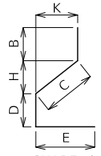
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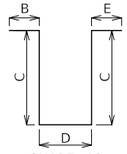
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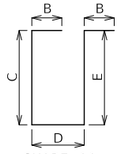
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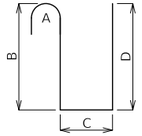
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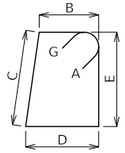
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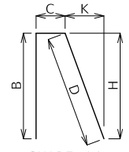
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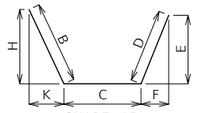
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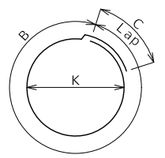
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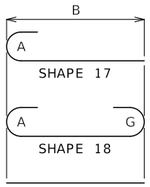
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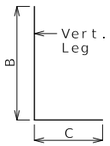
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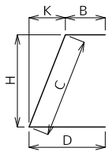
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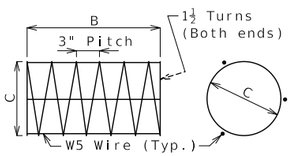
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SHAPE 18
SHAPE 20



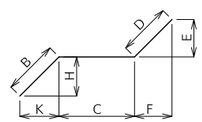
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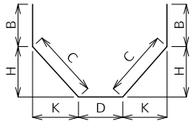
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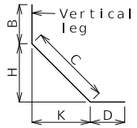
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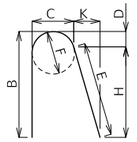
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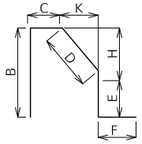
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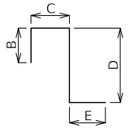
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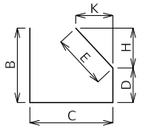
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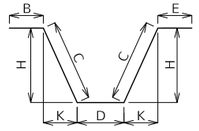
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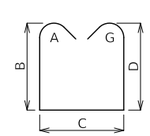
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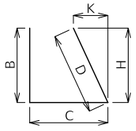
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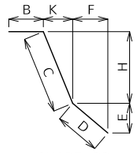
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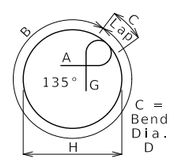
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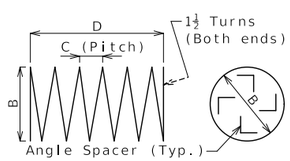
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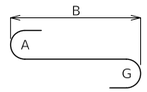
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or 33S



SHAPE 34S



SHAPE 35 (1)

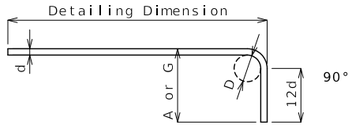


SHAPE 36

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¾"	28½"

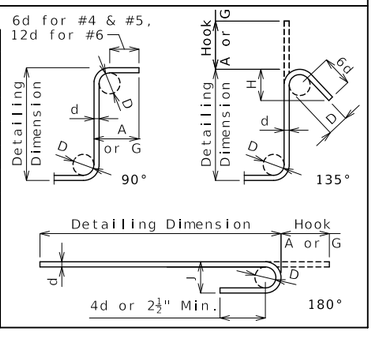


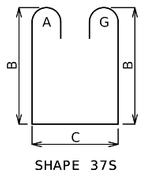
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅝"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

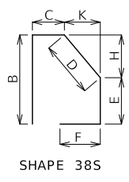
Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.





SHAPE 37S



SHAPE 38S

BENDING DIAGRAMS

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Reinforcing Steel Totals (Pounds)

	Size	Substructure Plain	Substructure Epoxy	Superstructure Slab	Superstructure Raised Median	Entire Bridge Plain	Entire Bridge Epoxy
By Size	4	0	0	0	3,795	0	3,795
By Type		0	0	0	3,795	0	3,795

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	B ft	B in.	C ft	C in.	D ft	D in.	E ft	E in.	F ft	F in.	H ft	H in.	K ft	K in.	Nom. Length ft	Nom. Length in.	Actual Length ft	Actual Length in.	Weight lb
		Raised Median																						
206	4 S1	RAISED MEDIAN	E	20		9	3.00													9	3	9	3	1,273
4	4 S2	RAISED MEDIAN	E	20		5	6.00													5	6	5	6	15
4	4 S3	RAISED MEDIAN	E	20		4	3.00													4	3	4	3	12
2	4 S4	RAISED MEDIAN	E	20		4	9.00													4	9	4	9	7
2	4 S5	RAISED MEDIAN	E	20		3	3.00													3	3	3	3	5
2124	4 S6	RAISED MEDIAN	E	19S			8.50	13.50												1	10	1	9	2,483

Note: Cost of all reinforcement is included in the contract unit price for Raised Median Barrier.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 4

Detailed Jan. 2025
Checked Jan. 2025

STATE OF MISSOURI
JOSHUA D. JOLLIFF
NUMBER PE-2006002824
PROFESSIONAL ENGINEER
06/04/2025 11:52:15 AM
Joshua D. Jolliff
MO PE-2006002824

DATE PREPARED 6/4/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
BR	4

COUNTY: ST. LOUIS
JOB NO.: J6S3215B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A53282

DESCRIPTION	DATE	REV.

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

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