

DESIGN DESIGNATION

A.A.D.T. - VARIOUS

FUNCTIONAL CLASSIFICATION - VARIOUS

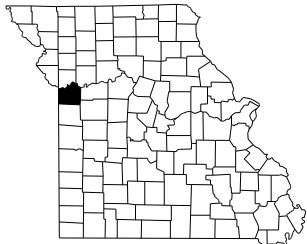
NO NEW RIGHT OF WAY WILL BE
ACQUIRED FOR THIS PROJECT

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

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

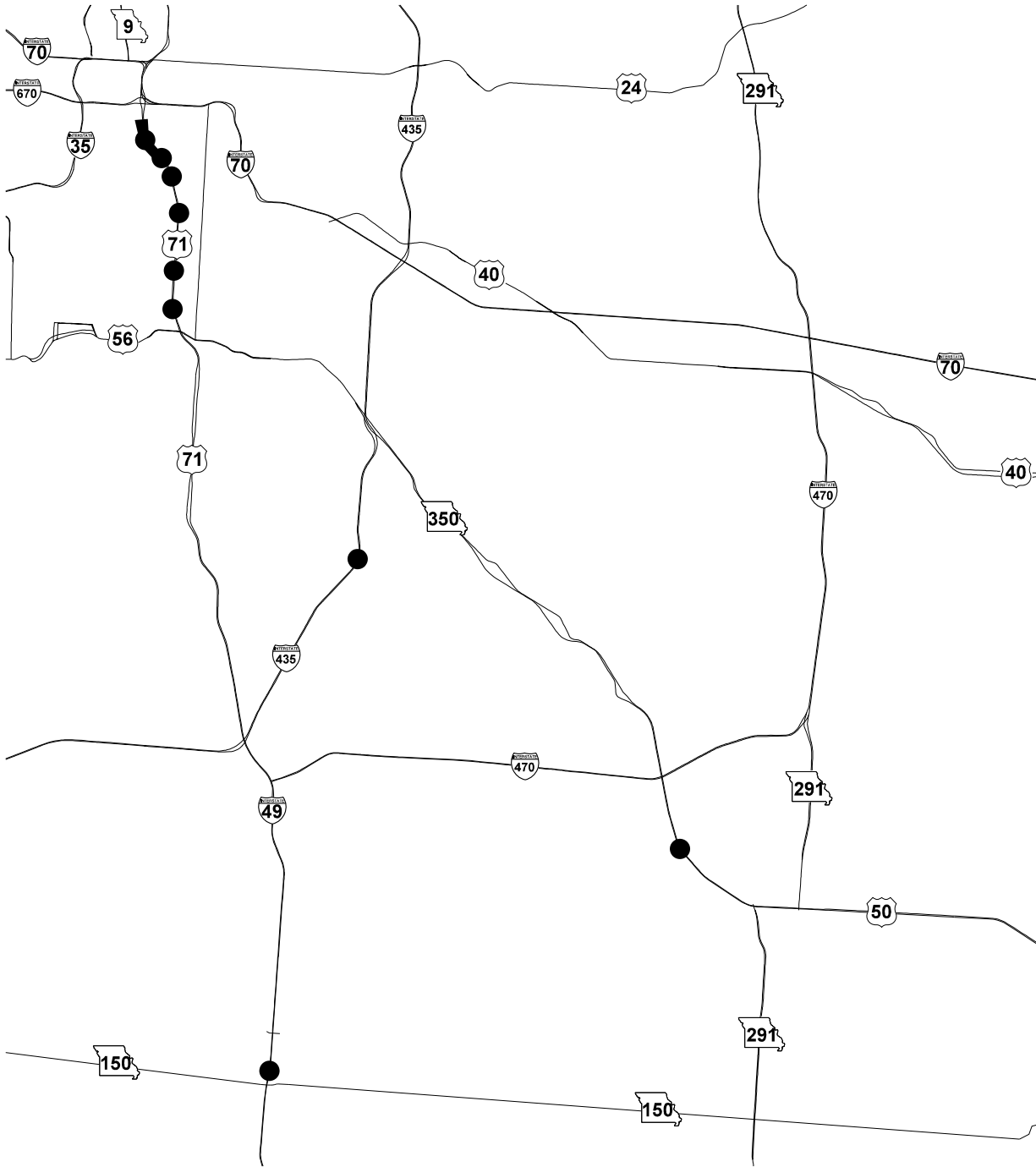


KEY MAP
LOCATION OF JACKSON COUNTY



NOT TO SCALE

NEW CAMERA LOCATIONS: ●
NEW FIBER: —



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

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

DATE PREPARED
5/31/2024
ROUTE STATE
VAR MO
DISTRICT SHEET NO.
KC 1

COUNTY
JACKSON
JOB NO.
JKU0026
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)

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CCTV CAMERA											
SHEET NO.	CCTV ID	LOCATION	CCTV CAMERA ASSEMBLY INSTALLED (EA)	CAMERA LOWERING DEVICE (EA)	CAMERA LOWERING DEVICE PAINTED (EA)	STEEL CAMERA POLE				CCTV POLE FOUNDATION	
						POLE		PAINTED POLE		45 FT POLE (EA)	70 FT POLE (EA)
						45 FT WITH TENON (EA)	70 FT WITH TENON (EA)	45 FT WITH TENON (EA)	70 FT WITH TENON (EA)		
8	M071SBC-27	S OF E 22ND ST	1		1				1		1
9	M071NBC-26	THE PASEO	1		1				1		1
10	M071NBC-25	E 26TH ST	1		1			1		1	
11	M071NBC-24	LINWOOD BLVD	1		1				1		1
12	M071SBC-23	E 39TH ST	1		1				1		1
13	M071SBC-22	EMANUEL CLEAVER II BLVD	1		1			1		1	
14	M435NBC-07A	SOUTH OF GREGORY BLVD	1	1		1				1	
15	M050EBC-01B	NW O'BRIEN RD	1	1		1				1	
16	M049NBC-32A	MO 150	1	1			1				1
PAY TOTAL			9	3	6	2	1	2	4	4	5

CABINET AND COMMUNICATION EQUIPMENT							
SHEET NO.	CABINET ID	LOCATION	336 POLE MOUNTED CABINET PAINTED (EA)	336 POLE MOUNTED CABINET (EA)	ETHERNET SWITCH (EA)	SMALL FORM-FACTOR PLUGGABLE (SFP) (EA)	FIBER TO ETHERNET MEDIA CONVERTER (EA)
7	M071NBCA-28	E 19TH ST					1
8	M071SBCA-27	S OF E 22ND ST	1		1	1	1
9	M071NBCA-26	THE PASEO	1		1	1	
10	M071NBCA-25	E 26TH ST	1		1		
11	M071NBCA-24	LINWOOD BLVD	1		1		
12	M071SBCA-23	E 39TH ST	1		1		
13	M071SBCA-22	EMANUEL CLEAVER II BLVD	1		1		
14	M435NBCA-23A	SOUTH OF GREGORY BLVD		1	1	2	
15	M050EBCA-01B	NW O'BRIEN RD			1		
16	M049NBCA-32A	MO 150		1			2
TOTAL			6	2	8	4	4
PAY TOTAL			6	2	**	**	4

** FOR INFORMATION ONLY. THESE ARE COMMISSION FURNISHED ITEMS. INSTALLATION COVERED BY THE "INSTALL COMMISSION FURNISHED TELECOM EQUIPMENT" LUMP SUM BID ITEM.

PULL BOX		
SHEET NO.	PULL BOX PREFORMED CLASS 2 (EA)	SCOUT FIBER OPTIC PULL BOX (EA)
7		5
8	2	2
9	1	4
10	2	
11	1	
12	2	
13	2	
14		1
16	1	1
PAY TOTAL	11	13

POWER SUPPLY ASSEMBLY		
SHEET NO.	POWER SUPPLY ASSEMBLY TYPE 1 240/120 V ITS (EA)	POWER SUPPLY ASSEMBLY TYPE 2 240/120 V ITS (EA)
8		1
9	1	
10		1
11		1
12		1
13	1	
14		1
16		1
PAY TOTAL	2	6

RADIO		
SHEET NO.	DEVICE ID	WIRELESS RADIO ASSEMBLY (EA)
9	M071NBR-26	1
10	M071NBR-25A	1
10	M071NBR-25B	1
11	M071NBR-24A	1
11	M071NBR-24B	1
12	M071SBR-23A	1
12	M071SBR-23B	1
13	M071SBR-22	1
PAY TOTAL		8

RADAR VEHICLE DETECTOR (RVD)		
SHEET NO.	DEVICE ID	RADAR VEHICLE DETECTOR (EA)
14	M435NBVR-07	1
15	M050EBVR-01B	1
PAY TOTAL		2

* FOR INFORMATION ONLY. CABLES ARE INCIDENTAL TO ASSOCIATED DEVICE BID ITEM.

CABLING							
SHEET NO.	LOCATION	FIBER OPTIC CABLE		TRACER WIRE (LF)	CCTV CABLE (LF)	RADAR CABLE (LF)	RADIO CABLE (LF)
		12-STRAND SINGLE MODE (LF)	48-STRAND SINGLE MODE (LF)				
7	19TH	85	1,787	1,852			
8	S OF E 22ND ST	107	1,807	2,388	81		
9	THE PASEO	83	659	901	81		71
10	E 26TH ST			161	56		112
11	LINWOOD BLVD			163	81		142
12	E 39TH ST			251	81		142
13	EMANUEL CLEAVER II BLVD			350	56		56
14	SOUTH OF GREGORY BLVD	83		118	56	46	
15	NW O'BRIEN RD			167	238	228	
16	MO 150	712		841	81		
TOTAL		1,070	4,253	7,192	811	274	523
PAY TOTAL		1,070	4,260	7,200	*	*	*

MOBILIZATION		
MOBILIZATION	1	LUMP SUM

FIBER OPTIC SPLICING, TESTING AND DOCUMENTATION		
FIBER OPTIC SPLICING, TESTING AND DOCUMENTATION	1	LUMP SUM

INSTALL COMMISSION FURNISHED TELECOM EQUIPMENT		
INSTALL COMMISSION FURNISHED TELECOM EQUIPMENT	1	LUMP SUM

CONDUIT			
SHEET NO.	LOCATION	2-INCH RIGID IN TRENCH (LF)	2-INCH RIGID PUSHED (LF)
7	19TH	1,162	182
8	S OF E 22ND ST	1,535	733
9	THE PASEO	310	471
10	E 26TH ST	103	
11	LINWOOD BLVD	22	105
12	E 39TH ST	53	140
13	EMANUEL CLEAVER II BLVD	198	94
14	SOUTH OF GREGORY BLVD	86	
15	NW O'BRIEN RD	149	
16	MO 150	637	128
PAY TOTAL		4,255	1,853

POWER WIRING					
SHEET NO.	LOCATION	POWER CABLE (LF)		BARE NETURAL WIRE (LF)	
		1/C#8 AWG	1/C#6 AWG	1/C#8 AWG	1/C#6 AWG
8	S OF E 22ND ST		1,641		547
9	THE PASEO	645		215	
10	E 26TH ST	387		129	
11	LINWOOD BLVD	435		145	
12	E 39TH ST	657		219	
13	EMANUEL CLEAVER II BLVD	1,035		345	
14	SOUTH OF GREGORY BLVD	228		76	
16	MO 150	558		186	
TOTAL		3,945	1,641	1,315	547
PAY TOTAL		3,950	1,650	1,320	550

QUANTITY SUMMARY



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

DATE PREPARED
5/31/2024
ROUTE
VAR
STATE
MO
DISTRICT
KC
SHEET NO.
3

COUNTY
JACKSON
JOB NO.
JKU0026
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

EFFECTIVE: 07-01-2024

SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		ITEM	TOTAL				
SIGN	IN.	SQ.FT.	EACH	SQ.FT.	EACH	SQ.FT.	NUM.		SIGN	IN.	SQ.FT.	EACH	SQ.FT.	EACH	SQ.FT.	NUM.		NUMBER	QTY	DESCRIPTION			
WARNING SIGNS									DESCRIPTION														
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00	1	12.00					GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00							EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)		
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00							EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)		
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00							ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)		
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00							END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)		
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50							PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)		
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75							PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)		
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50							PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL		
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	1	6.00					WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)		
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00							END DETOUR	6123001	1*	TRUCK MOUNTED ATTENUATOR (TMA)		
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00							DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM		
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00							DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)		
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00							STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)		
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00							DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)		
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00							DETOUR ARROW (RIGHT)	6161025	28	CHANNELIZER (TRIM LINE)		
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161030		TYPE III MOVEABLE BARRICADE			
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25							STOP	6161033		DIRECTION INDICATOR BARRICADE		
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93							YIELD	6161040	2	FLASHING ARROW PANEL		
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00							TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER		
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50							ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT		
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	1	12.00					SPEED LIMIT XX	6161070		TUBULAR MARKER		
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00							NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM		
WO3-5	48X48	16.00	1	16.00				SPEED LIMIT AHEAD	R3-2	48X48	16.00							NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED		
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00							NO TURNS	6161096		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED		
WO4-1R	48X48	16.00	1	16.00				MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00							NO U-TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED		
WO4-1aL	48X48	16.00	1	16.00				MERGE (LEFT)	R3-7L	30X30	6.25							LEFT LANE MUST TURN LEFT	6161098A				
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25							RIGHT LANE MUST TURN RIGHT					
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00							DO NOT PASS	6161099				
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00							PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM		
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00							KEEP RIGHT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS		
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00							KEEP LEFT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED		
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25							DO NOT ENTER	6173600D				
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00							WRONG WAY			TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED		
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75							ONE WAY ARROW (LEFT)	6173602B				
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75							ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00							ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER		
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00							ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED		
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00							SIDEWALK CLOSED	6176000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED		
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6177000B				
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6208064A		TEMPORARY RAISED PAVEMENT MARKER		
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00							STOP HERE ON RED (45° ARROW)	9029400		TEMPORARY TRAFFIC SIGNALS		
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00							ROAD CLOSED	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING		
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL										ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY					
WO8-9	48X48	16.00						LOW SHOULDER										ROAD CLOSED TO THRU TRAFFIC					
WO8-11	48X48	16.00						UNEVEN LANES	R11-3a	60X30	12.50							FINE SIGN					
WO8-12	48X48	16.00						NO CENTER LINE	R11-4	60X30	12.50							SPEEDING/PASSING (PLATE)					
WO8-15	48X48	16.00						GROOVED PAVEMENT	CONST-3A	60X48	20.00												
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-3X	56X12	4.67												
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	MISCELLANEOUS SIGNS														
WO8-17R	30X24	5.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-5	48X36	12.00							POINT OF PRESENCE					
WO10-1	42RND.	9.62						RAILROAD CROSSING	CONST-5	96X48	32.00							POINT OF PRESENCE					
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)	CONST-8	48X36	12.00							WORK ZONE NO PHONE ZONE					
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)															
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)															
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)															
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD															
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD															
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)															
WO16-2	30X24	5.00						XXX FEET (PLAQUE)															
WO16-3	30X24	5.00						X MILE (PLAQUE)															
WO20-1	48X48	16.00	2	32.00				ROAD/BRIDGE/RAMP WORK AHEAD															
WO20-2	48X48	16.00						DETOUR AHEAD															
WO20-3	48X48	16.00						ROAD CLOSED AHEAD	616-10.05				TOTAL										
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS				190.00										
WO20-5	48X48	16.00	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10						TOTAL								
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCATED SIGNS						**								
WO20-6a	48X48	16.00	1	16.00				RIGHT/CENTER/LEFT LANE CLOSED															
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)															
WO21-2	36X36	9.00						FRESH OIL															
WO21-5	48X48	16.00	2	32.00				SHOULDER WORK / SHOULDER WORK AHEAD															
WO22-1	48X48	16.00						BLASTING ZONE AHEAD															
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE															
WO22-3	42X36	10.50						END BLASTING ZONE															
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)															

DISCLAIMER

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

NOTES:
ALL ITEMS SHOWN ON THIS SHEET WILL BE PAID FOR UNDER TEMPORARY TRAFFIC CONTROL (1 LUMP SUM) UNLESS SPECIFIED OTHERWISE.
SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
* NOT INCLUDED IN LUMP SUM TRAFFIC CONTROL.
** NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING OR COVERING/UNCOVERING EXISTING OR TCP SIGNS UNLESS SPECIFIED.

QUANTITY SUMMARY

SHEET 2 OF 2

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-20220086
REGISTERED PROFESSIONAL ENGINEER

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

DATE PREPARED
5/31/2024

ROUTE
VAR

DISTRICT
KC

STATE
MO

SHEET NO.
3

COUNTY
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JOB NO.
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CONTRACT ID.

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DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

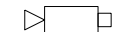
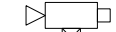
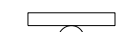
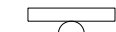
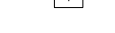
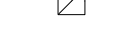
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

003_QU_02_JKU0026_i1.dgn 8:22:51 PM 5/31/2024

GENERAL NOTES

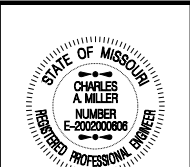
1. RIGHT-OF-WAY INFORMATION IS NOT SHOWN AT ALL LOCATIONS. RIGHT-OF-WAY MUST BE DETERMINED IN THE FIELD. ALL IMPROVEMENTS MUST BE ON MODOT RIGHT-OF-WAY.
2. EXISTING UTILITY LOCATIONS ARE NOT SHOWN. ALL UTILITY LOCATIONS WITHIN THE LIMITS OF THE PROJECT SHALL BE MARKED BY THE APPROPRIATE UTILITY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE PROJECT. MODOT MUST BE CONTACTED TO LOCATE AND MARK ROADWAY LIGHTING, TRAFFIC SIGNAL AND OTHER MODOT OWNED UNDERGROUND INFRASTRUCTURE.
3. ALL TREES, HEDGE ROWS, SHELTERBELTS, AND WOODY SHRUBS NOT SHOWN TO BE REMOVED AND LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE SPARED UNLESS OTHERWISE DIRECTED BY THE ENGINEER TO BE REMOVED.
4. ALL REFERENCES TO STANDARD PLANS/DETAILS ARE IN REFERENCE TO MODOT STANDARDS UNLESS OTHERWISE NOTED.
5. EXISTING LIGHTCORE FIBER OPTIC CABLE RUNS ALONG SOME PROJECT SITES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE LIGHTCORE FIBER OPTIC CABLE PRIOR TO BID SUBMISSION AND CONSTRUCTION IN THAT AREA.
6. ALL ITS ELEMENTS SHALL BE WIRED ACCORDING TO MANUFACTURER'S WIRING DIAGRAMS.
7. PROPOSED ITS IMPROVEMENTS AND EQUIPMENT LOCATIONS ARE APPROXIMATE; LOCATIONS MAY BE MODIFIED TO AVOID UTILITIES AND OTHER OBSTRUCTIONS IF APPROVED BY THE ENGINEER IN ADVANCE.
8. ALL ELECTRICAL WORK AND WIRING SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
9. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO MINIMIZE THE DOWNTIME OF EXISTING ITS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WORK WITH MODOT. ANY WORK REQUIRING DOWNTIME OF THE ITS EQUIPMENT SHALL BE COMPLETED DURING NON-PEAK TRAFFIC PERIODS, IF POSSIBLE.
- 10.ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH MODOT STANDARD SPECIFICATIONS.

EXISTING	PROPOSED	ITS LEGEND
		CCTV CAMERA MOUNTED ON STEEL POLE
		CCTV CAMERA AND CONTROLLER CABINET ON STEEL POLE
		DMS MOUNTED ON STEEL POLE
		DMS AND CONTROLLER CABINET MOUNTED ON STEEL POLE
		CABINET ASSEMBLY (CA), GROUND MOUNTED
		HAR SIGN (HB) AND BEACONS
		HAR TRANSMITTER (HT)
		VEHICLE RADAR (VR) DETECTOR
		VEHICLE RADAR (VR) DETECTOR ON RADAR POLE
		POWER SUPPLY ASSEMBLY
		DISTRIBUTION TRANSFORMER ASSEMBLY
		PULL BOX, CLASS 2
		PULL BOX, CIRCULAR
		FIBER SPLICE VAULT, WITHOUT SPLICE
		FIBER SPLICE VAULT, WITH SPLICE ENCLOSURE
		RADAR DETECTION ZONE
		ETHERNET RADIO
		SIGN
		POWER SERVICE LOCATION
		CONDUIT, TRENCHED
		CONDUIT, PUSHED (BORED OR DIRECTIONAL DRILLED)
		CONDUIT, ON STRUCTURE
		CONDUIT, EXISTING

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GENERAL NOTES
& LEGEND

SHEET 1 OF 1



STATE OF MISSOURI
CHARLES A. MILLER
NUMBER
E-202200806
REGISTERED PROFESSIONAL ENGINEER

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

DATE PREPARED
5/31/2024

ROUTE VAR	STATE MO
DISTRICT KC	SHEET NO. 4

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

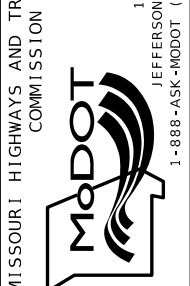
PROJECT NO.

BRIDGE NO.

DESCRIPTION									
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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)



715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CONDUIT AND CABLE ROUTING TABLES

The diagram illustrates the layout of two routing tables and the dimensions used to calculate cable and conduit lengths. Labels with leader lines point to specific parts of the tables and their dimensions:

- FROM DEVICE NO.:** Points to the 'FROM' column in both tables.
- TO DEVICE NO.:** Points to the 'TO' column in both tables.
- CONDUIT SIZES ON STRUCTURE:** Points to the 'ON STRUCTURE' section of the Conduit Routing Table.
- SIZE AND NUMBER OF CONDUITS BORED:** Points to the 'BORED' section of the Conduit Routing Table.
- SIZE AND NUMBER OF CONDUITS IN TRENCH:** Points to the 'TRENCHED' section of the Conduit Routing Table.
- CTR TO CTR DISTANCE:** Points to the 'CTR TO CTR DISTANCE' column in both tables.
- POWER CABLE SIZE:** Points to the 'POWER' section of the Cable Routing Table.
- BARE GROUND:** Points to the 'BARE GROUND' section of the Cable Routing Table.
- FIBER OPTIC CABLE, FIBER COUNT:** Points to the 'FIBER OPTIC CABLE' section of the Cable Routing Table.
- OTHER CABLES:** Points to the 'OTHER CABLES' section of the Cable Routing Table.
- TOTAL LENGTH OF CABLE (FOR INFORMATION ONLY):** Points to the 'TOTAL' row in the Cable Routing Table.

* TOTAL LENGTH OF CABLE FROM ORIGATION TO TERMINATION, INCLUDES SLACK AND COILING LENGTHS. ALL LENGTHS IN TABLE ARE MEASURED IN FEET.

DEVICE ID CODE LEGEND

M435EBC-05

M 435 EB C - 05

DEVICE NUMBER

DEVICE: C-CAMERA, S-DMS, CA-CABINET ASSEMBLY
PS-POWER SUPPLY ASSEMBLY,
VR-VEHICLE RADAR DETECTOR,
HB-HAR BEACON SIGN, HT-HAR TRANSMITTER,
R-ETHERNET RADIO

DIRECTION: EB - EASTBOUND, WB - WESTBOUND,
SB - SOUTHBOUND, NB - NORTHBOUND

ROUTE: I-435, I-35, I-70, ETC.

STATE: M-MISSOURI, K-KANSAS

PB15-2

PB 15 - 2

PULL BOX NO.

CABINET ASSEMBLY NO.

PULL BOX

RV - 4 B

RV - 4 B

DETECTOR DESIGNATION

CABINET ASSEMBLY NO.

RAMP VEHICLE DETECTOR

MODOT 470 - 03

MODOT SPLICED VAULT

ROUTE NO.

SPLICED VAULT DESIGNATION

EXPLANATION OF CABLE AND CONDUIT WORK

 NEW CABLE AND CONDUIT TO BE INSTALLED.

 EXISTING CABLE TO BE REMOVED
AND EXISTING CONDUIT TO BE ABANDONED.

 EXISTING CABLE TO BE REMOVED, NEW CABLE INSTALLED
AND EXISTING CONDUIT TO BE USED IN PLACE.

 EXISTING CABLE AND CONDUIT TO BE USED IN PLACE.

MODOT470-03 EXISTING ITS DEVICES

PB15-2 EXISTING PULL BOX OR SPLICE VAULT

ADDITIONAL CONDUIT QUANTITIES
INCLUDED IN TABLE

3' AT EACH POWER SUPPLY ASSEMBLY
3' AT EACH CABINET ASSEMBLY
3' AT EACH CCTV/RADAR DETECTOR
3' AT EACH DMS
SUBTRACT 1' AT EACH PULL BOX OR SPLICE VAULT

ADDITIONAL CABLE QUANTITIES
INCLUDED IN TABLE

POWER CABLE

6' AT EACH PULL BOX
8' AT EACH CABINET ASSEMBLY
35' AT EACH TYPE 1 POWER SUPPLY ASSEMBLY
8' AT EACH TYPE 2 POWER SUPPLY ASSEMBLY

FIBER OPTIC CABLE

6' AT EACH PULL BOX OR SPLICE VAULT WITHOUT SPLICE,
UNLESS NOTED OTHERWISE
65' OF ALL CABLES AT EACH CABINET ASSEMBLY
STORE 50' AT THE SPLICE VAULT NEAREST
THE CABINET ASSEMBLY AND STORE 15'
INSIDE THE CABINET ASSEMBLY WITH ALL
SLACK IN THE CABINET STORED IN THE FIBER
DISTRIBUTION UNIT
50' AT EACH DEPARTMENT OF TRANSPORTATION
SPLICE VAULT/HANDHOLE WHEN SPLICING

NOTE:
THE CONTRACTOR SHALL AFTER PULLING, CUT OFF AND DISCARD THE FIRST 10' OF THE FIBER OPTIC CABLE. THIS 10' HAS NOT BEEN INCLUDED IN THE TABLES. THE CONTRACTOR SHALL ACCOUNT FOR THIS LENGTH.

LEAD-IN CABLE

3' AT EACH PULL BOX W/ IN-DUCT SPLICE
6' AT EACH PULL BOX
8' AT EACH CABINET ASSEMBLY

RADAR DETECTOR CABLE

3' AT UNIT
6' AT EACH PULL BOX
8' AT EACH CABINET ASSEMBLY

CALL-OFF & QUANTITY TABLE LEGEND

SHEET 1 OF 1



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

DATE PREPARED	
5/31/2024	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
KC	5

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.	
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BRIDGE NO.

--	--	--	--	--	--	--

DESCRIPTION

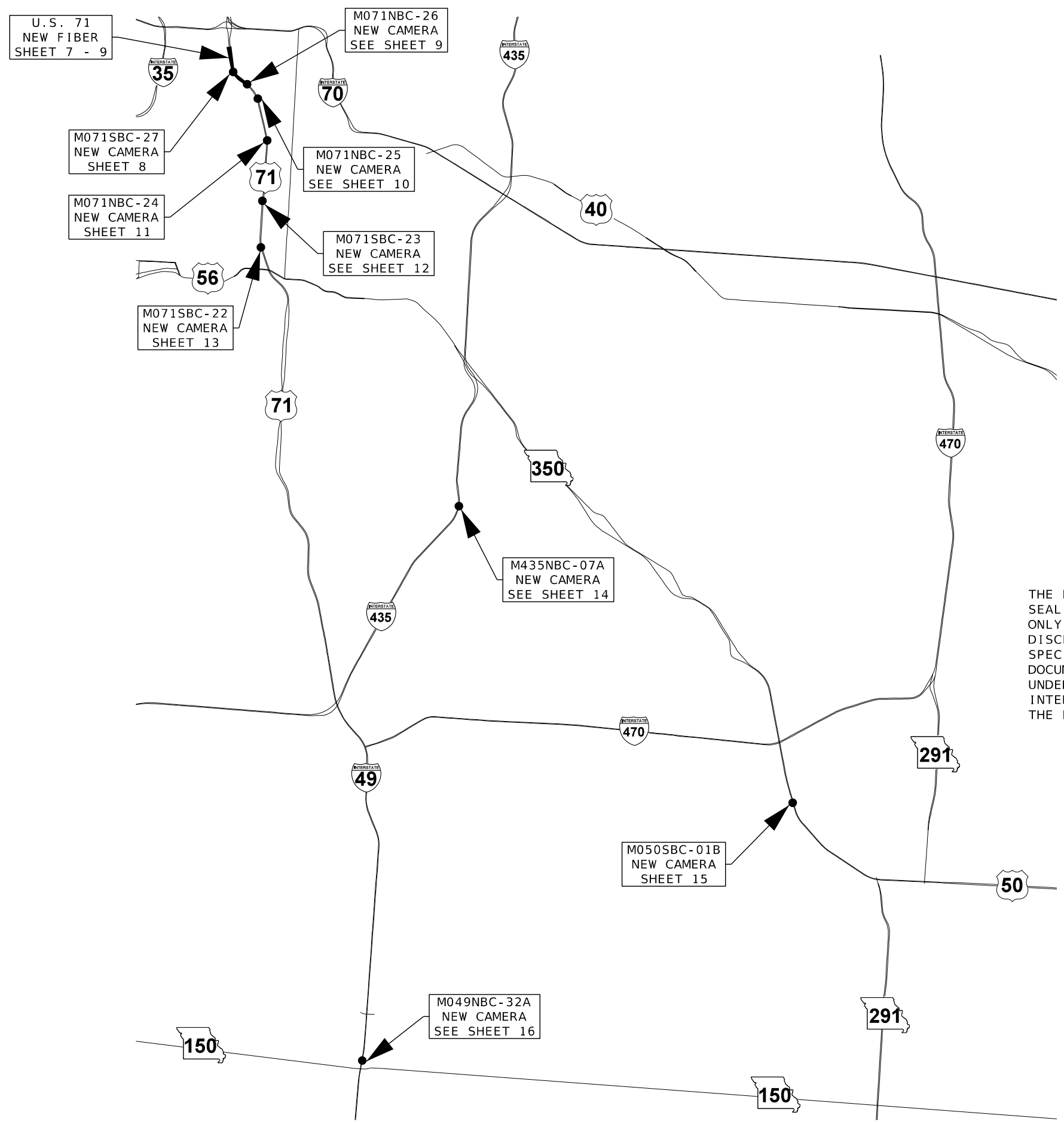
DATE _____

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

INTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



NOT TO SCALE

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CAMERA AND FIBER
INSTALLATION KEY MAP



THIS SHEET HAS BEEN
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DATED ELECTRONICALLY.

DATE PREPARED
5/31/2024

ROUTE STATE
VAR MO

DISTRICT SHEET NO.
KC 6

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

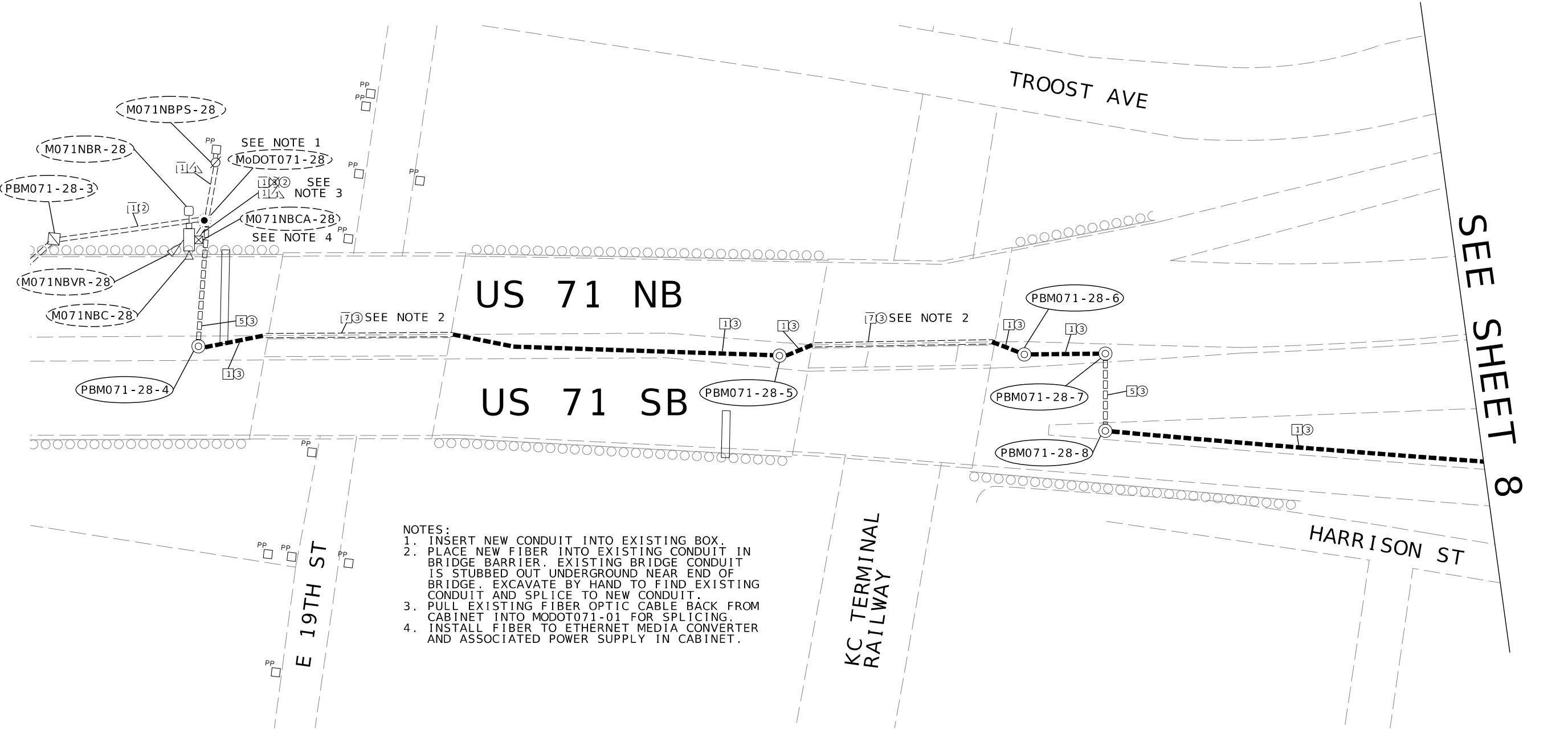


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TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

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

CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	1	1	1	2	5	6	5	5	7	8	7	7
			2 - INCH	3 - INCH	4 - INCH	2 - INCH	2 - INCH	2 - INCH	3 - INCH	2 - INCH	3 - INCH	2 - INCH	2 - INCH	2 - INCH	3 - INCH	2 - INCH	2 - INCH
M071NBCA-28	MoDOT071-28	20															
MoDOT071-28	PBM071-28-4	115								113							
PBM071-28-4	PBM071-28-5	534	360														
PBM071-28-5	PBM071-28-6	228	62														
PBM071-28-6	PBM071-28-7	74	72														
PBM071-28-7	PBM071-28-8	71								69							
PBM071-28-8	PBM071-27-1	670	668														
TOTAL			1162							182							

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
M071NBCA-28	MoDOT071-28	20																			
MoDOT071-28	PBM071-28-4	115													85	180					
PBM071-28-4	PBM071-28-5	534														540					
PBM071-28-5	PBM071-28-6	228														234					
PBM071-28-6	PBM071-28-7	74														80					
PBM071-28-7	PBM071-28-8	71														77					
PBM071-28-8	PBM071-27-1	670														676					
TOTAL															85	1787					



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US 71
19TH ST TO THE PASEO
MM 196.00
ITS PLAN SHEET 1 OF 10

STATE OF MISSOURI

CHARLES A. MILLER

REGISTERED PROFESSIONAL ENGINEER

E-202200806

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

DATE PREPARED
5/31/2024

ROUTE
VAR

DISTRICT
KC

STATE
MO

SHEET NO.
7

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
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CERTIFICATE OF AUTHORITY
NO. 001270

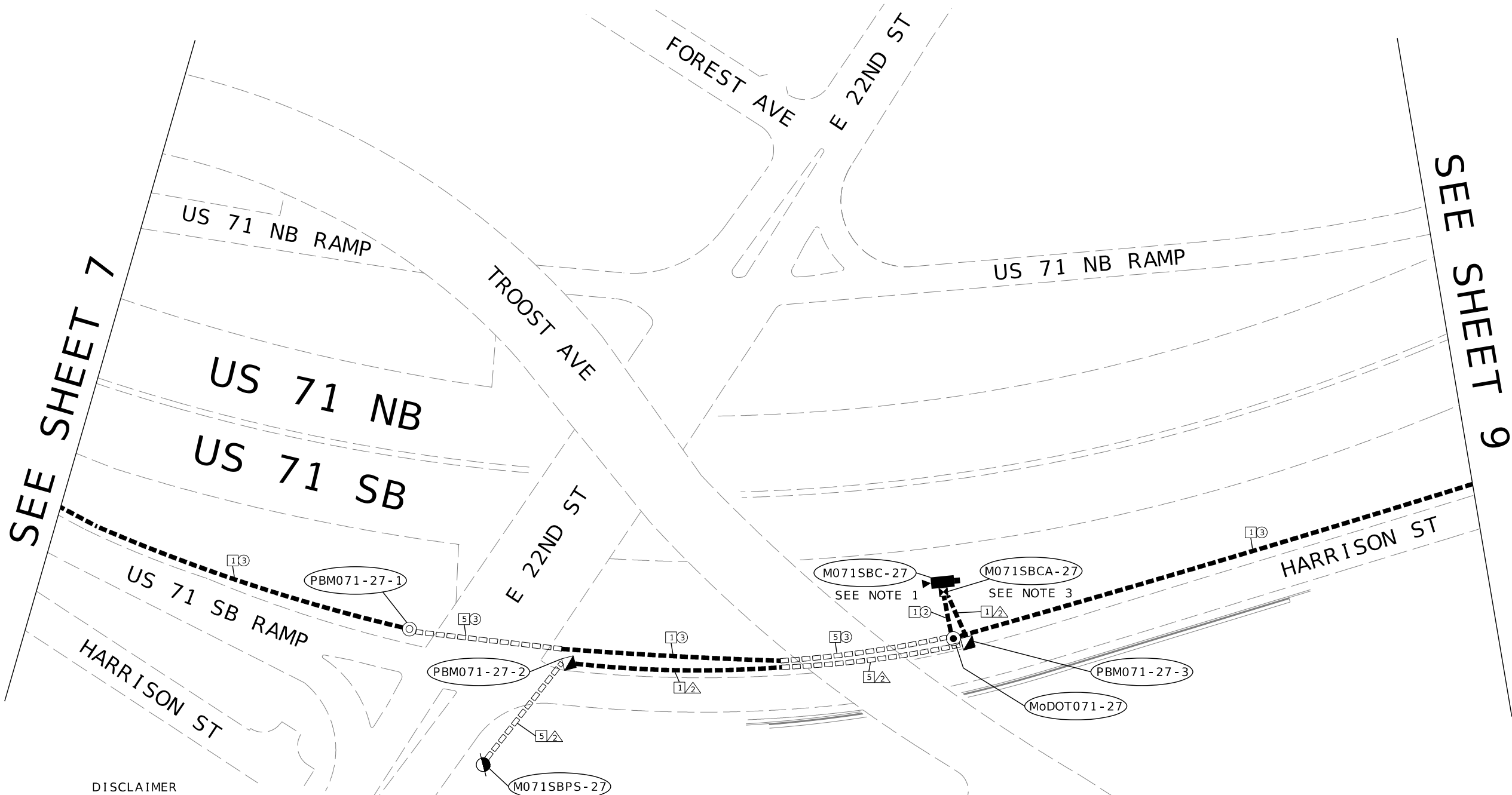
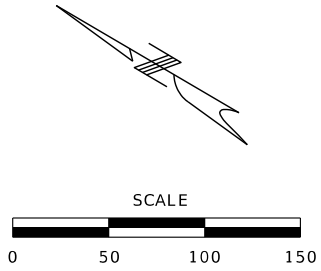
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REV.

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CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	1	1	1	2	5	6	5	5	7	8	7	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH
PBM071-27-1	MoDOT071-27	478	189							287							
MoDOT071-27	M071SBCA-27	42	44														
MoDOT071-27	PBM071-26-1	1229	1066							161							
M071SBPS-27	PBM071-27-2	119								121							
PBM071-27-2	PBM071-27-3	350	184							164							
PBM071-27-3	M071SBCA-27	50	52														
M071SBCA-27	M071SBC-27	70															
TOTAL			1535							733							

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
PBM071-27-1	MoDOT071-27	478														528					
MoDOT071-27	M071SBCA-27	42													107						
MoDOT071-27	PBM071-26-1	1229														1279					
M071SBPS-27	PBM071-27-2	119		133							133										
PBM071-27-2	PBM071-27-3	350		356							356										
PBM071-27-3	M071SBCA-27	50		58							58										
M071SBCA-27	M071SBC-27	70															81				
TOTAL				547							547				107	1807	81				



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- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 70 FT PAINTED POLE 34 FEET FROM EDGE OF THE U.S. 71 SB TRAVELWAY.
 2. INSTALL TYPE 2 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
 3. INSTALL FIBER TO ETHERNET MEDIA CONVERTER, CISCO 3400 ETHERNET SWITCH, SFP AND ASSOCIATED POWER SUPPLIES IN CABINET.

US 71
19TH ST TO THE PASEO
MM 195.00
ITS PLAN SHEET 2 OF 10

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER
E-20200806
REGISTERED PROFESSIONAL ENGINEER

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

DATE PREPARED
6/2/2024

ROUTE
VAR

DISTRICT
KC

STATE
MO

SHEET NO.
8

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

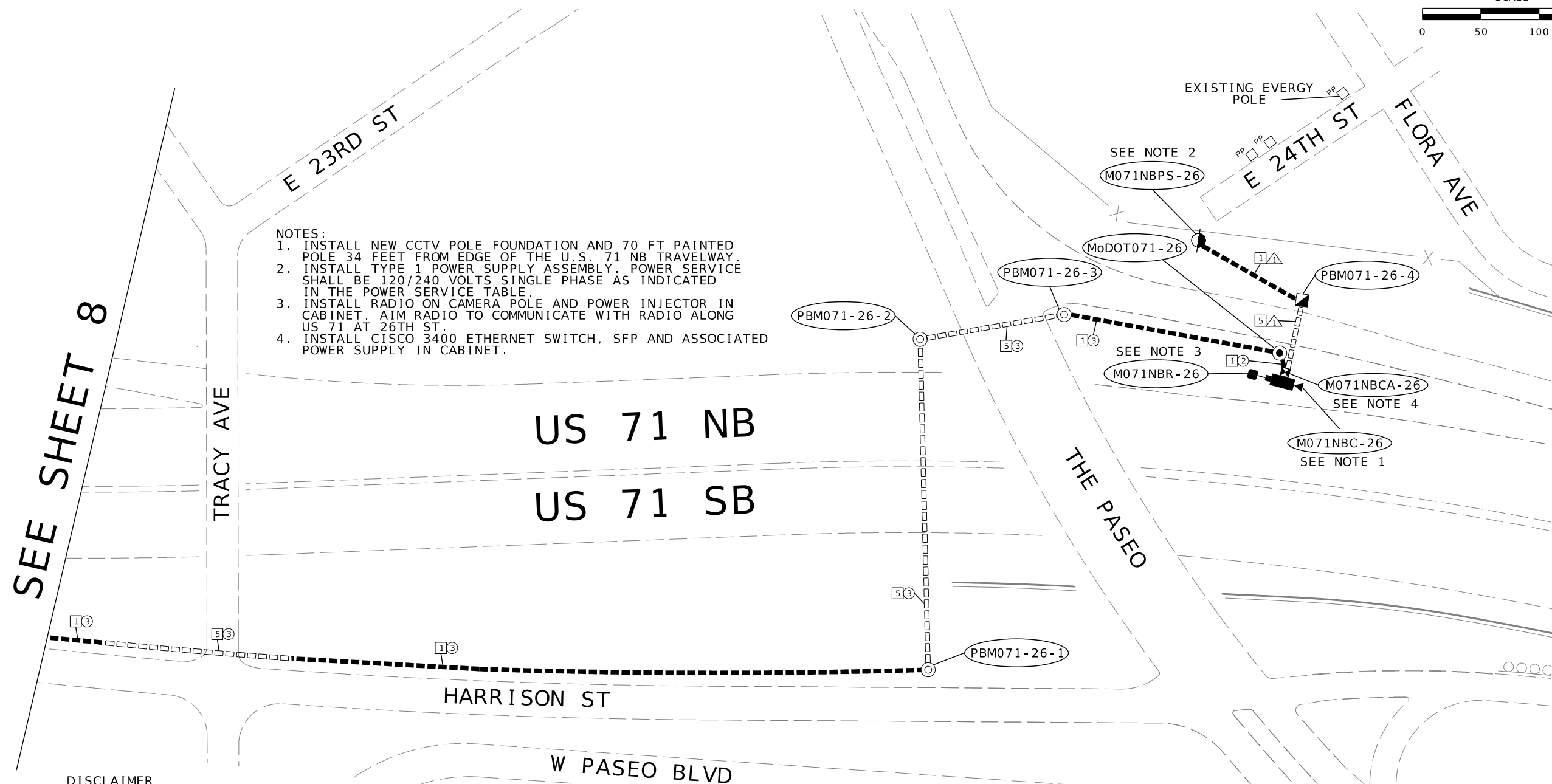
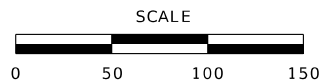
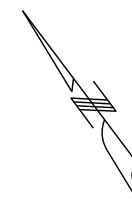
HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

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CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	1	1	1	2	5	6	5	5	7	8	7	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH	3-INCH	3-INCH	2-INCH
PBM071-26-1	PBM071-26-2	284							282								
PBM071-26-2	PBM071-26-3	125															
PBM071-26-3	MoDOT071-26	188	186						123								
MoDOT071-26	M071NBCA-26	18	20														
M071NBPS-26	PBM071-26-4	102	104														
PBM071-26-4	M071NBCA-26	64						66									
M071NBCA-26	M071NBC-26	70															
M071NBCA-26	M071NBR-26	60															
TOTAL			310						471								

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
PBM071-26-1	PBM071-26-2	284														290					
PBM071-26-2	PBM071-26-3	125														131					
PBM071-26-3	MoDOT071-26	188														238					
MoDOT071-26	M071NBCA-26	18																			
M071NBPS-26	PBM071-26-4	102	143					143					83								
PBM071-26-4	M071NBCA-26	64	72					72													
M071NBCA-26	M071NBC-26	70															81				
M071NBCA-26	M071NBR-26	60																		71	
TOTAL			215					215						83	659	81				71	



NOTES:

1. INSTALL NEW CCTV POLE FOUNDATION AND 70 FT PAINTED POLE 34 FEET FROM EDGE OF THE U.S. 71 NB TRAVELWAY.
2. INSTALL TYPE 1 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
3. INSTALL RADIO ON CAMERA POLE AND POWER INJECTOR IN CABINET. AIM RADIO TO COMMUNICATE WITH RADIO ALONG US 71 AT 26TH ST.
4. INSTALL CISCO 3400 ETHERNET SWITCH, SFP AND ASSOCIATED POWER SUPPLY IN CABINET.

DISCLAIMER

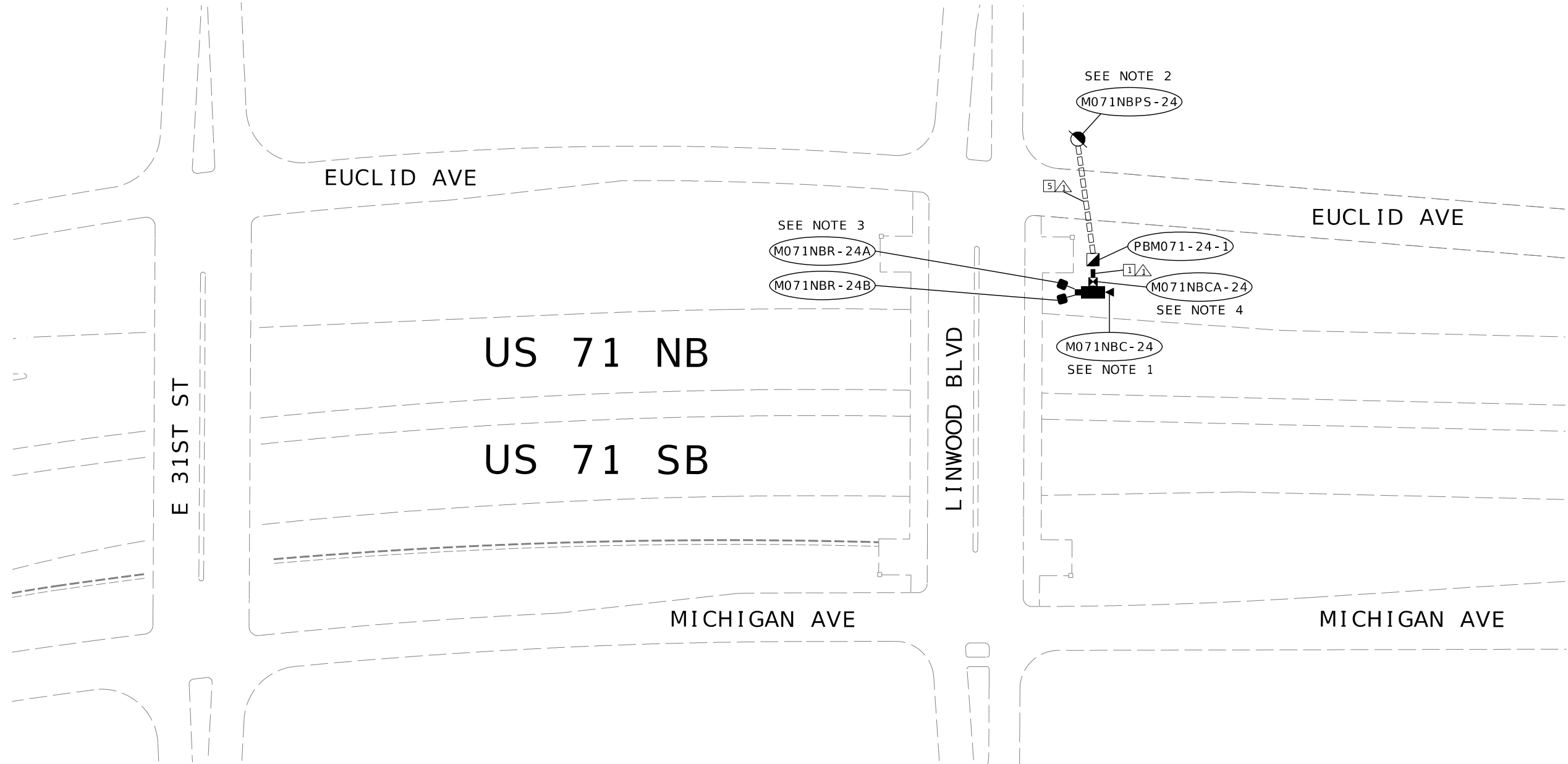
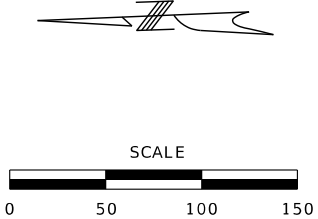
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US 71
19TH ST TO THE PASEO
MM 194.00
ITS PLAN SHEET 3 OF 10

[illegible]

CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	3	1	1	2	5	6	5	5	7	8	7	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	2-INCH
M071NBPS-24	PBM071-24-1	103								105							
PBM071-24-1	M071NBCA-24	20	22														
M071NBCA-24	M071NBC-24	70															
M071NBCA-24	M071NBR-24A	60															
M071NBCA-24	M071NBR-24B	60															
TOTAL			22							105							

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
M071NBPS-24	PBM071-24-1	103	117							117											
PBM071-24-1	M071NBCA-24	20	28							28											
M071NBCA-24	M071NBC-24	70															81				
M071NBCA-24	M071NBR-24A	60																		71	
M071NBCA-24	M071NBR-24B	60																		71	
TOTAL			145							145							81			142	



DISCLAIMER
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- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 70 FT PAINTED POLE 34 FEET FROM EDGE OF THE U.S. 71 NB TRAVELWAY.
 2. INSTALL TYPE 2 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
 3. INSTALL RADIOS ON CAMERA POLE AND POWER INJECTORS IN CABINET. AIM RADIOS TO COMMUNICATE WITH RADIOS ALONG US 71 AT 26TH ST AND 39TH ST.
 4. INSTALL CISCO 3400 ETHERNET SWITCH AND ASSOCIATED POWER SUPPLY IN CABINET. CONNECT CAMERA AND RADIOS TO THE SWITCH.

US 71
AT LINWOOD BLVD
MM 193.00
ITS PLAN SHEET 5 OF 10

STATE OF MISSOURI

CHARLES A. MILLER

REGISTERED PROFESSIONAL ENGINEER

E-20200806

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

DATE PREPARED

5/31/2024

ROUTE

VAR

DISTRICT

KC

STATE

MO

SHEET NO.

11

COUNTY

JACKSON

JOB NO.

JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

HNTB

715 KIRK DRIVE

KANSAS CITY, MO 64105-1310

TELEPHONE (816) 472-1201

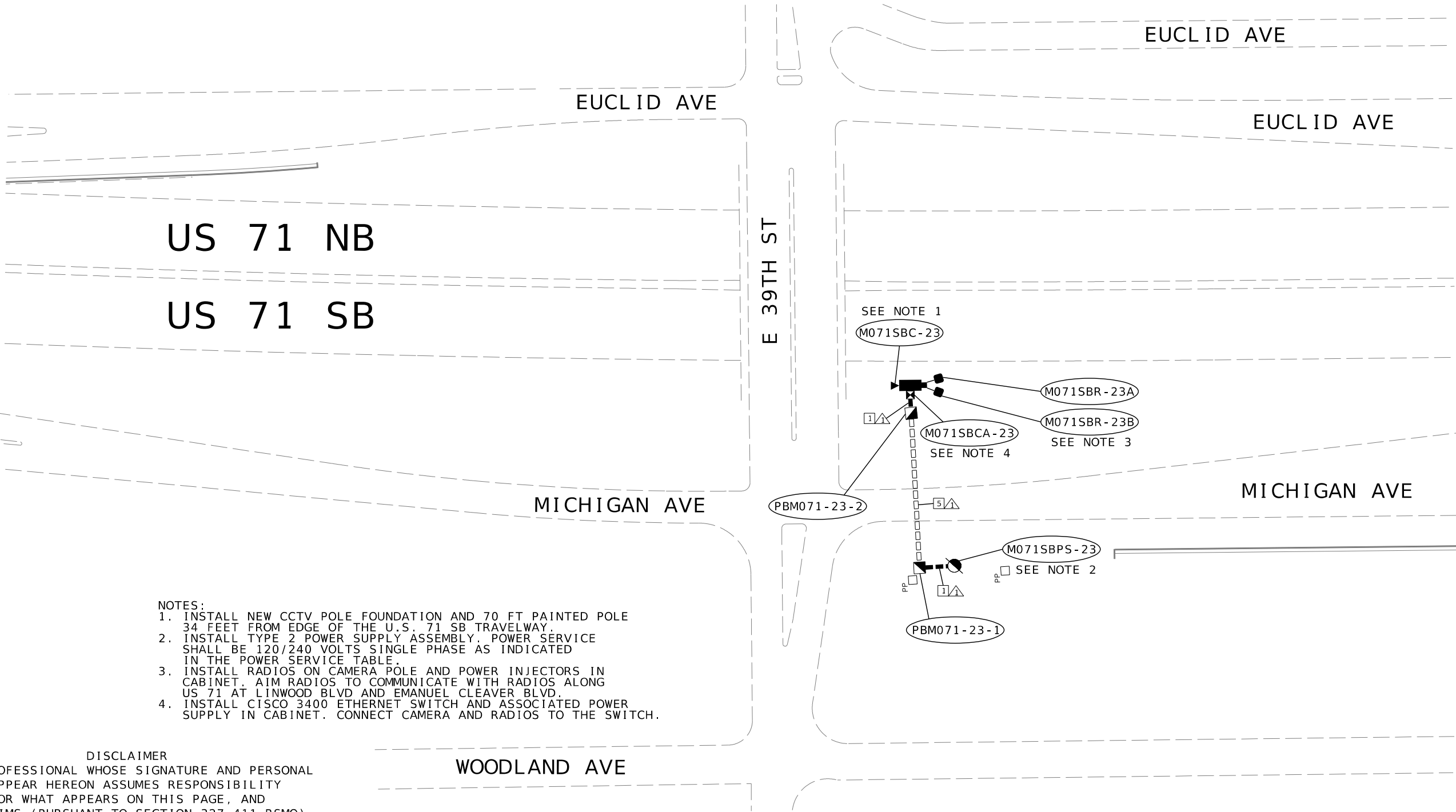
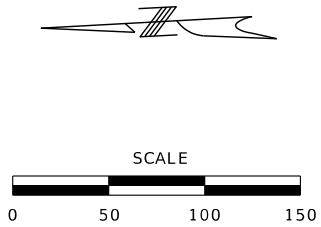
CERTIFICATE OF AUTHORITY

NO. 001270

011_IT_05_JKU0026_i50.dgn 8:23:17 PM 5/31/2024

CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	1	1	1	2	5	6	5	5	7	8	7	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	2-INCH
M071SBPS-23	PBM071-23-1	32	34														
PBM071-23-1	PBM071-23-2	142							140								
PBM071-23-2	M071SBCA-23	17	19														
M071SBCA-23	M071SBC-23	70															
M071SBCA-23	M071SBR-23A	60															
M071SBCA-23	M071SBR-23B	60															
TOTAL			53						140								

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
M071SBPS-23	PBM071-23-1	32	46					46													
PBM071-23-1	PBM071-23-2	142	148					148													
PBM071-23-2	M071SBCA-23	17	25					25													
M071SBCA-23	M071SBC-23	70															81				
M071SBCA-23	M071SBR-23A	60																		71	
M071SBCA-23	M071SBR-23B	60																		71	
TOTAL			219					219									81			142	



- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 70 FT PAINTED POLE 34 FEET FROM EDGE OF THE U.S. 71 SB TRAVELWAY.
 2. INSTALL TYPE 2 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
 3. INSTALL RADIOS ON CAMERA POLE AND POWER INJECTORS IN CABINET. AIM RADIOS TO COMMUNICATE WITH RADIOS ALONG US 71 AT LINWOOD BLVD AND EMANUEL CLEAVER BLVD.
 4. INSTALL CISCO 3400 ETHERNET SWITCH AND ASSOCIATED POWER SUPPLY IN CABINET. CONNECT CAMERA AND RADIOS TO THE SWITCH.

DISCLAIMER

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US 71
AT 39TH ST
MM 191.00
ITS PLAN SHEET 6 OF 10

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

DATE PREPARED
5/31/2024

ROUTE
VAR

STATE
MO

DISTRICT
KC

SHEET NO.
12

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MODOT

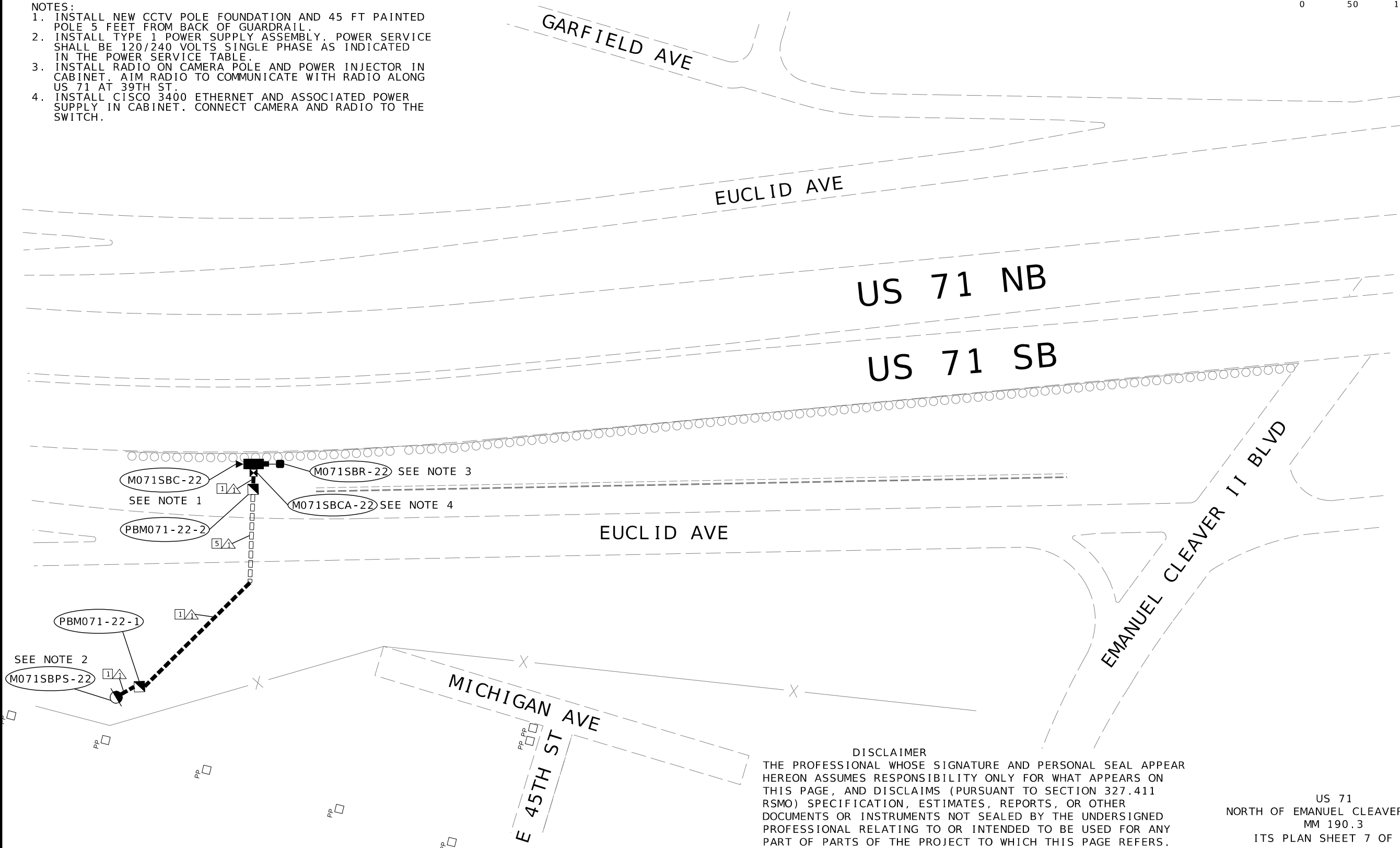
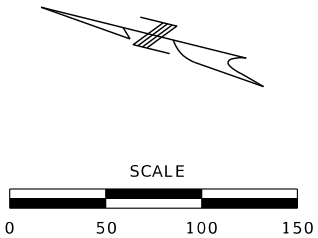
HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			[1]	[2]	[3]	[1]	[1]	[1]	[2]	[5]	[6]	[5]	[5]	[7]	[8]	[7]	[7]
			2 - INCH	3 - INCH	4 - INCH	2 - INCH	2 - INCH	2 - INCH	3 - INCH	2 - INCH	3 - INCH	2 - INCH	2 - INCH	2 - INCH	3 - INCH	2 - INCH	2 - INCH
M071SBPS-22	PBM071-22-1	27	29														
PBM071-22-1	PBM071-22-2	246	150						94								
PBM071-22-2	M071SBCA-22	17	19														
M071SBCA-22	M071SBC-22	45															
M071SBCA-22	M071SBR-22	45															
TOTAL			198						94								

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
M071SBPS-22	PBM071-22-1	27	68						68												
PBM071-22-1	PBM071-22-2	246	252						252												
PBM071-22-2	M071SBCA-22	17	25						25												
M071SBCA-22	M071SBC-22	45															56				
M071SBCA-22	M071SBR-22	45																		56	
TOTAL			345						345								56			56	

- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 45 FT PAINTED POLE 5 FEET FROM BACK OF GUARDRAIL.
 2. INSTALL TYPE 1 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
 3. INSTALL RADIO ON CAMERA POLE AND POWER INJECTOR IN CABINET. AIM RADIO TO COMMUNICATE WITH RADIO ALONG US 71 AT 39TH ST.
 4. INSTALL CISCO 3400 ETHERNET AND ASSOCIATED POWER SUPPLY IN CABINET. CONNECT CAMERA AND RADIO TO THE SWITCH.



DISCLAIMER
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US 71
NORTH OF EMANUEL CLEAVER BLVD
MM 190.3
ITS PLAN SHEET 7 OF 10

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

DATE PREPARED
6/2/2024

ROUTE VAR	STATE MO
DISTRICT KC	SHEET NO. 13

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

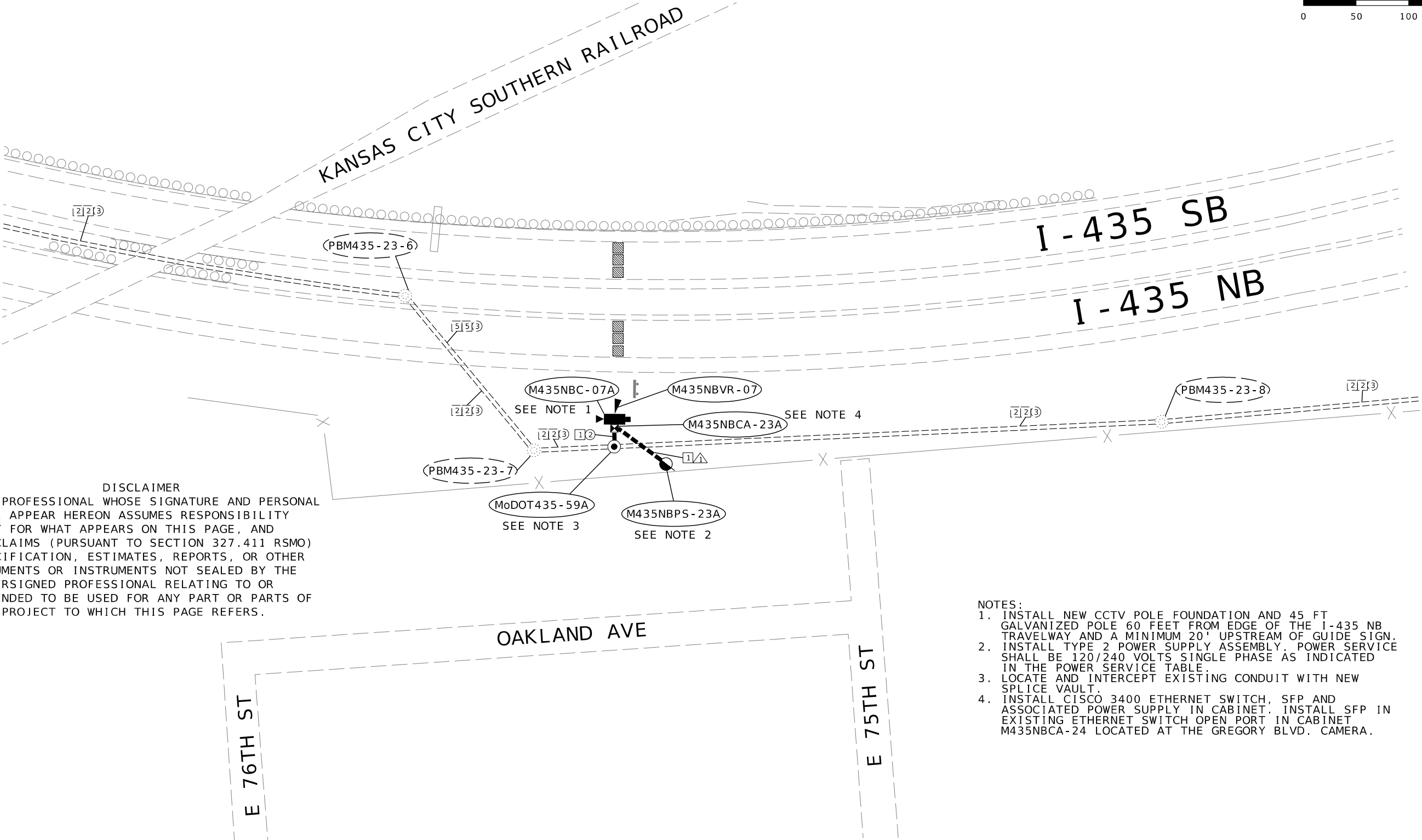
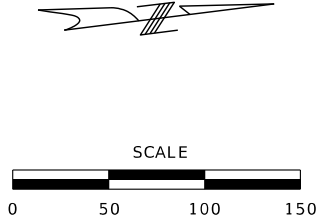
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CONDUIT ROUTING TABLE														
FROM	TO	CTR TO CTR DISTANCE	TRENCHED				BORED				ON STRUCTURE			
			1	2	3	1	1	1	2	5	6	5	5	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH
MoDOT435-59A	M435NBCA-23A	18	20											
M435NBPS-02A	M435NBCA-23A	60	66											
M435NBCA-23A	M435NBC-07A	45												
M435NBCA-23A	M435NBVR-07	35												
TOTAL			86											

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
MoDOT435-59A	M435NBCA-23A	18														83					
M435NBPS-02A	M435NBCA-23A	60	76						76												
M435NBCA-23A	M435NBC-07A	45															56				
M435NBCA-23A	M435NBVR-07	35																	46		
TOTAL			76						76							83	56		46		



- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 45 FT GALVANIZED POLE 60 FEET FROM EDGE OF THE I-435 NB TRAVELWAY AND A MINIMUM 20' UPSTREAM OF GUIDE SIGN.
 2. INSTALL TYPE 2 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
 3. LOCATE AND INTERCEPT EXISTING CONDUIT WITH NEW SPLICE VAULT.
 4. INSTALL CISCO 3400 ETHERNET SWITCH, SFP AND ASSOCIATED POWER SUPPLY IN CABINET. INSTALL SFP IN EXISTING ETHERNET SWITCH OPEN PORT IN CABINET M435NBCA-24 LOCATED AT THE GREGORY BLVD. CAMERA.

I-435
SOUTH OF GREGORY BLVD
MM 67.00
ITS PLAN SHEET 8 OF 10

STATE OF MISSOURI

CHARLES A. MILLER

REGISTERED PROFESSIONAL ENGINEER

E-20220006

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

DATE PREPARED

5/31/2024

ROUTE

VAR

DISTRICT

KC

STATE

MO

SHEET NO.

14

COUNTY

JACKSON

JOB NO.

JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

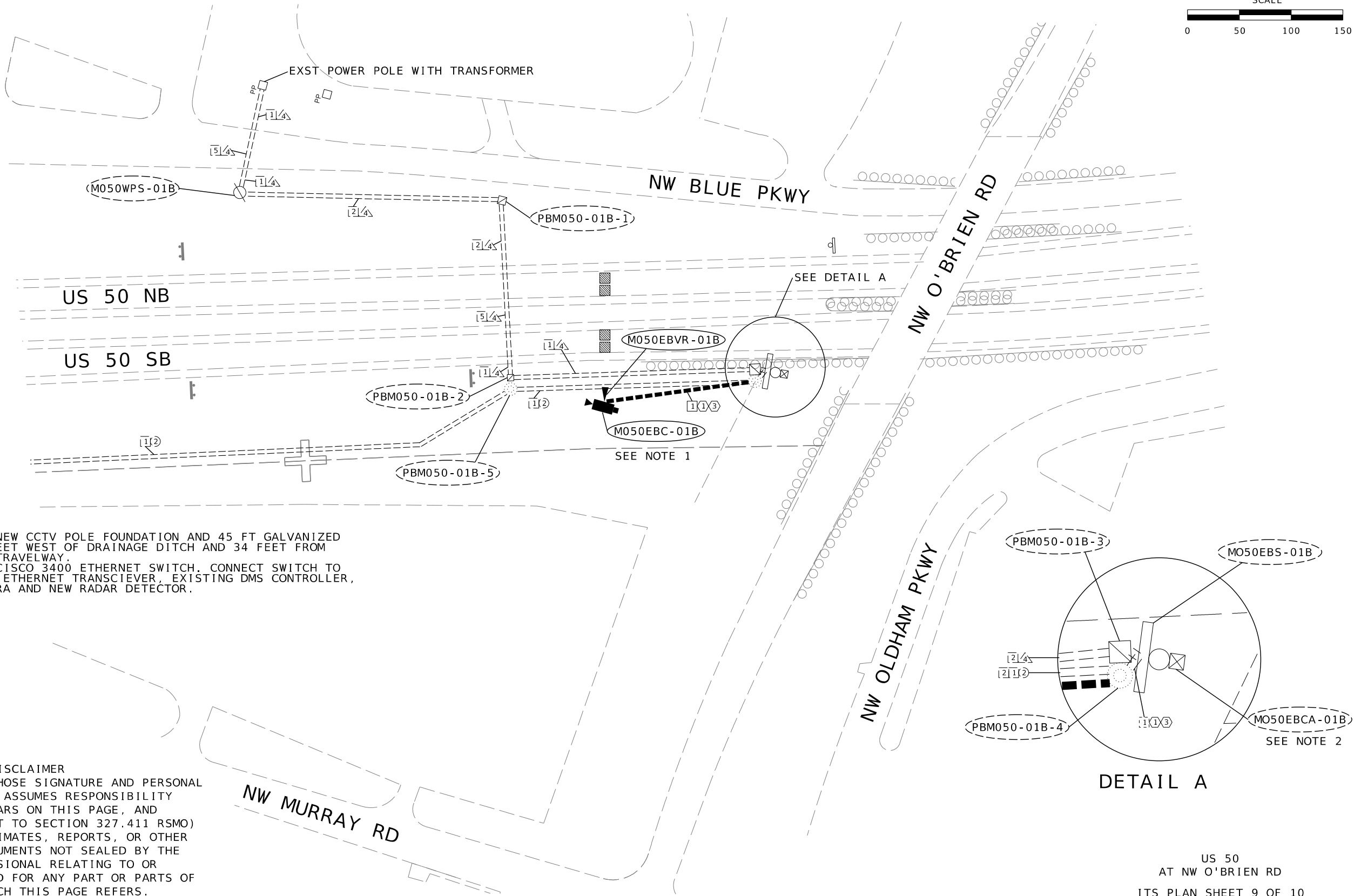
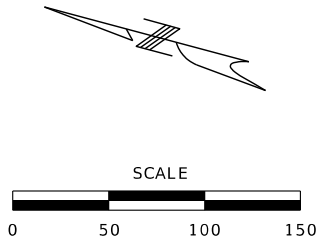
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

014_IT_08_JKU0026_i50.dgn 8:23:29 PM 5/31/2024

CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	1	1	1	2	5	6	5	5	7	8	7	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	2-INCH
PBM050-01B-4	M050EBC-01B	147	149														
PBM050-01B-4	M050EBVR-01B	147															
PBM050-01B-4	M050EBCA-01B	29															
TOTAL			149														

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
PBM050-01B-4	M050EBC-01B	147															201		191		
PBM050-01B-4	M050EBVR-01B	147																			
PBM050-01B-4	M050EBCA-01B	29															37		37		
TOTAL																	238		228		



- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 45 FT GALVANIZED POLE 5 FEET WEST OF DRAINAGE DITCH AND 34 FEET FROM EDGE OF TRAVELWAY.
 2. INSTALL CISCO 3400 ETHERNET SWITCH. CONNECT SWITCH TO EXISTING ETHERNET TRANSCEIVER, EXISTING DMS CONTROLLER, NEW CAMERA AND NEW RADAR DETECTOR.

DISCLAIMER

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

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

DATE PREPARED
5/31/2024

ROUTE
VAR

STATE
MO

DISTRICT
KC

SHEET NO.
15

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

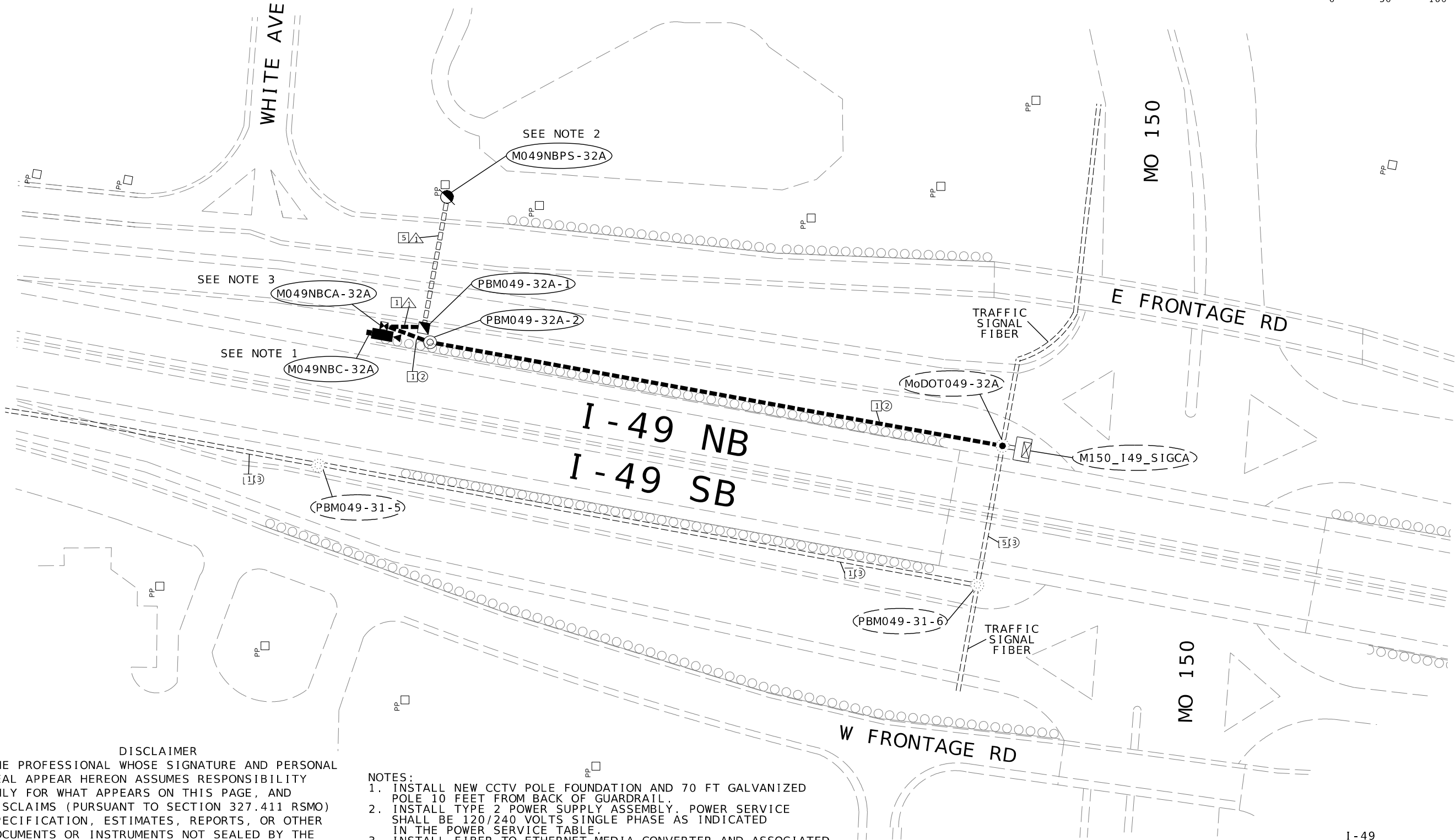
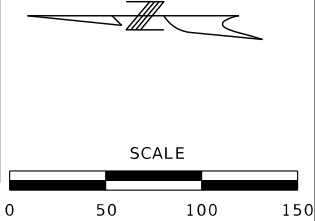
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CONDUIT ROUTING TABLE																	
FROM	TO	CTR TO CTR DISTANCE	TRENCHED						BORED				ON STRUCTURE				
			1	2	3	1	1	1	2	5	6	5	5	7	8	7	7
			2-INCH	3-INCH	4-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	2-INCH	2-INCH	2-INCH	3-INCH	2-INCH
MoDOT049-32A	PBM049-32A-2	550	548														
PBM049-32A-2	M049NBCA-32A	47	49														
M049NBPS-32A	PBM049-32A-1	126															
PBM049-32A-1	M049NBCA-32A	38	40							128							
M049NBCA-32A	M049NBC-32A	70															
TOTAL			637							128							

CABLE ROUTING TABLE																					
FROM	TO	CTR TO CTR DISTANCE	POWER						BARE GROUND						FIBER OPTIC CABLE			OTHER CABLES			
			①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	①	②	③	④
			3-1/C#8	3-1/C#6	3-1/C#4	3-1/C#2	3-1/C#1	3-1/C #0/1	1-1/C#8	1-1/C#6	1-1/C#4	1-1/C#2	1-1/C#1	1-1/C #1/0	6 SMFO	12 SMFO	48 SMFO	CCTV CABLE	DMS CABLES	RADAR CABLE	RADIO CABLE
MoDOT049-32A	PBM049-32A-2	550													600						
PBM049-32A-2	M049NBCA-32A	47													112						
M049NBPS-32A	PBM049-32A-1	126	140						140												
PBM049-32A-1	M049NBCA-32A	38	46						46												
M049NBCA-32A	M049NBC-32A	70																81			
TOTAL			186						186						712			81			



DISCLAIMER
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- NOTES:
1. INSTALL NEW CCTV POLE FOUNDATION AND 70 FT GALVANIZED POLE 10 FEET FROM BACK OF GUARDRAIL.
 2. INSTALL TYPE 2 POWER SUPPLY ASSEMBLY. POWER SERVICE SHALL BE 120/240 VOLTS SINGLE PHASE AS INDICATED IN THE POWER SERVICE TABLE.
 3. INSTALL FIBER TO ETHERNET MEDIA CONVERTER AND ASSOCIATED POWER SUPPLY IN CABINET. INSTALL FIBER TO ETHERNET MEDIA CONVERTER AND ASSOCIATED POWER SUPPLY IN CABINET M049SBCA-30 LOCATED AT 140TH ST. CAMERA.

I-49
AT MO 150
MM 177.00
ITS PLAN SHEET 10 OF 10

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

DATE PREPARED
5/31/2024

ROUTE
VAR

DISTRICT
KC

STATE
MO

SHEET NO.
16

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

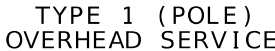
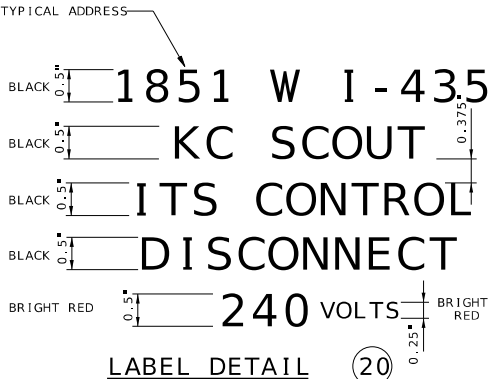
PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



NOTES

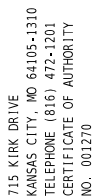
- (A) SERVICE POLE SHALL BE GUYED WHEN SPAN OF OVERHEAD SERVICE WIRE EXCEEDS 50'.
- (B) INCREASE 12" FOR EACH 5' ABOVE 30'.
- (C) METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED, AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.
- (D) SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
- (E) (NOT USED)
- (F) IF MULTIPLE CIRCUITS ARE SPECIFIED, INSTALL CB PANEL ON POWER SUPPLY.
- (G) CIRCUIT BREAKERS IN THE CIRCUIT BREAKER PANEL SHALL BE PLUG-IN TYPE.
- (H) SERVICE DISCONNECT BOXES AND METER BOXES SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL.
- (I) 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 762 mm DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

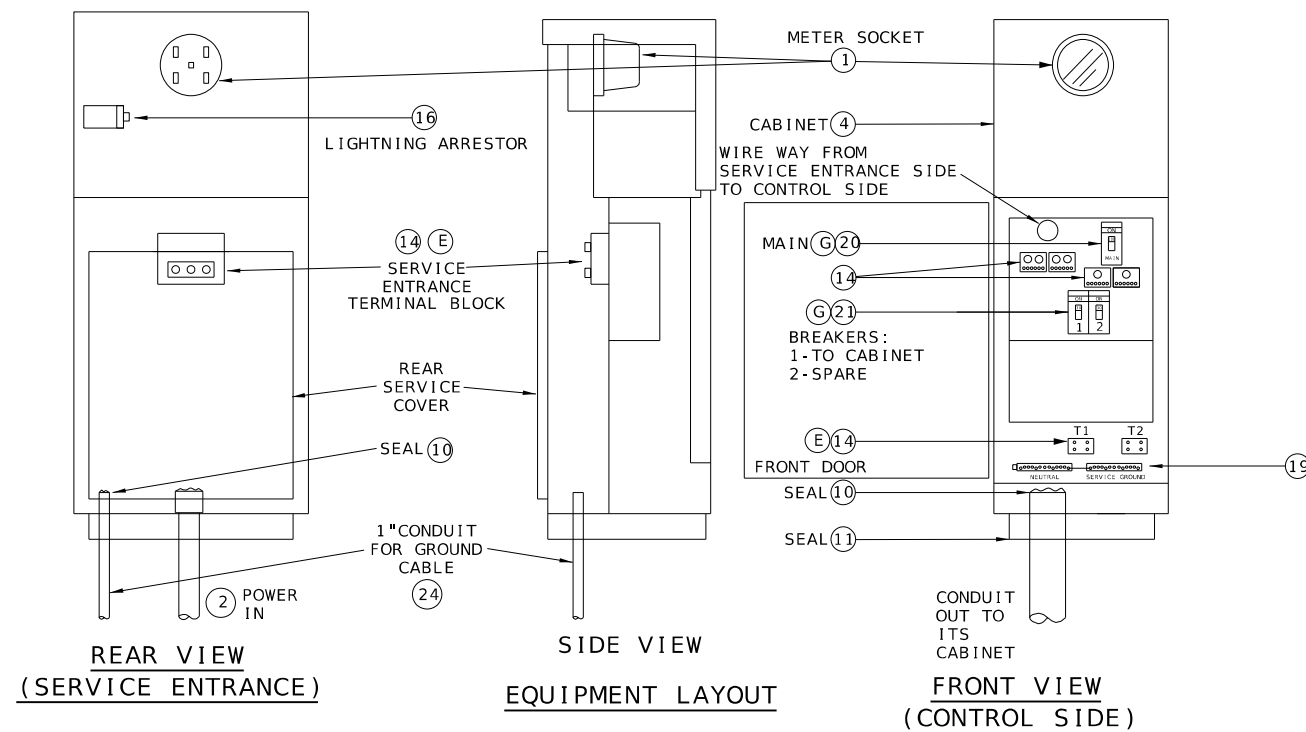
1. FOR CABLE TYPES AND INSTALLATION, SEE STANDARD SPECIFICATIONS.
2. THE TYPE OF POWER SUPPLY ASSEMBLY IS SHOWN ON THE PLANS OR IS DESIGNATED IN THE CONTRACT.
3. ALL WORK AND ITEMS SHALL MEET NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION STANDARDS.
4. WHERE CB PANEL IS NOT DESIGNATED, OMIT ITEMS NOT REQUIRED.
5. ALL OPENINGS IN ANY SERVICE BOX OR METER BOX SHALL BE COVERED AND SEALED WITH 100 YEAR SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON
7. 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 IF THE LIGHTNING ARRESTER IS TERMINATED IN THE METER OR DISCONNECT CABINET, IF TERMINATED IN THE DISCONNECT CABINET, IT SHALL BE INSTALLED ON THE DISCONNECT CABINET.
8. FOR SINGLE CIRCUIT CONTROLLER ASSEMBLY FEED, ROUTE CONDUIT FROM DISCONNECT BOX; MULTIPLE CIRCUITS FROM FEEDER BREAKER PANEL ENCLOSURE.
9. INSTALL CONDUITS AT 25" MINIMUM BELOW GRADE. SEE PLANS FOR ROUTING.
10. CABLE FROM UTILITY SERVICE DROP TO POWER SUPPLY ASSEMBLY SHALL BE SIZED PER NEC.

POWER SERVICE TABLE

DETAIL SHEET
TYPE 1 POWER
SUPPLY ASSEMBLY

SHEET 1 OF 10

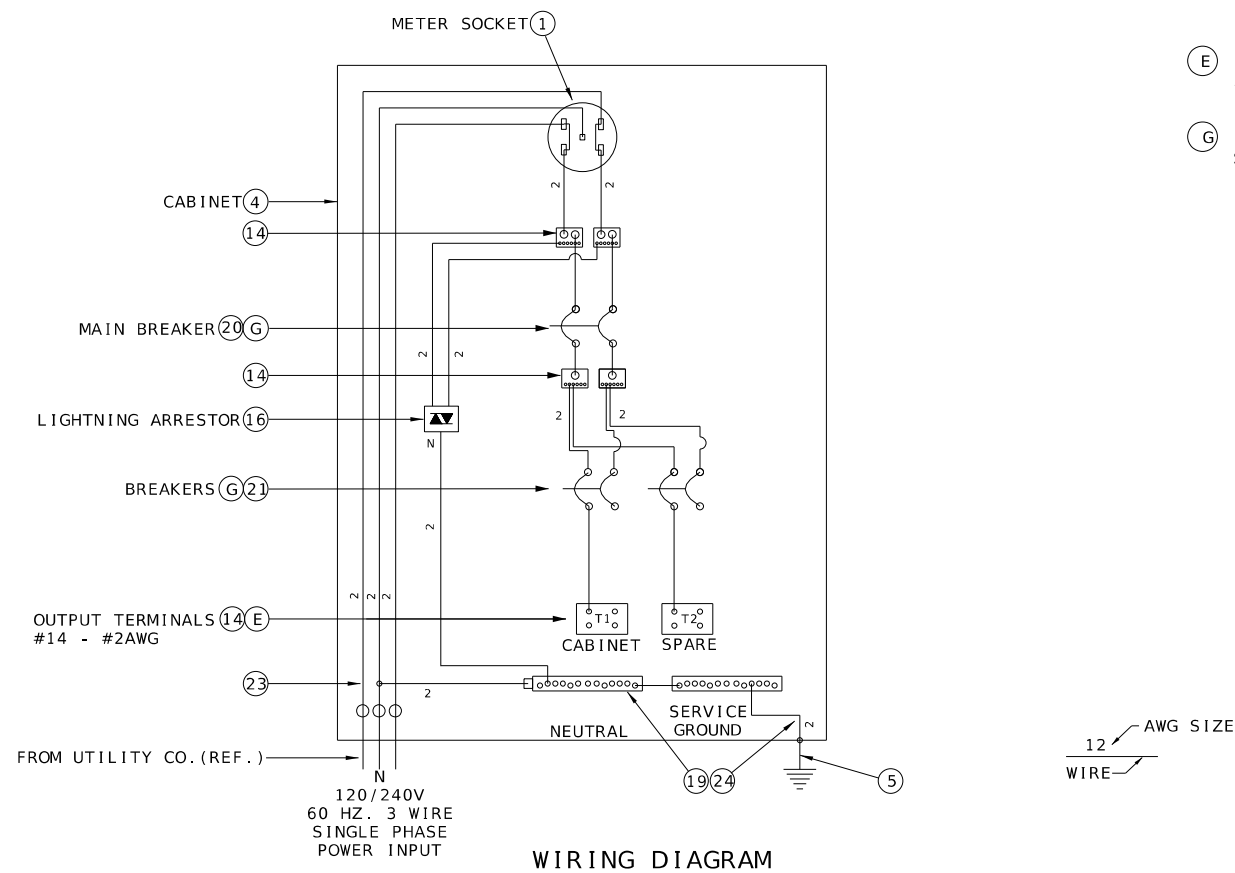




LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID CONDUIT, 2.5" MIN. TO UTILITY CO. FACILITIES
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, B 4" DIA. X 8' MIN.(MIN.8' IN SOIL)
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
14	INSULATED TERMINAL BLOCK
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, 100 AMP, TYPE A MAIN BREAKER
21	2-POLE, TYPE A BREAKERS (SEE POWER SERVICE TABLE FOR SIZE)
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

NOTES

- (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.
- (G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.



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DETAIL SHEET
TYPE 2 POWER SUPPLY
ASSEMBLY CABINET

SHEET 2 OF 10



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

DATE PREPARED
5/31/2024

ROUTE VAR	STATE MO
--------------	-------------

DISTRICT	SHEET NO.
KC	18

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.	
--------------	--

PROJECT NO.	CL
-------------	----

BRIDGE NO.

DESCRIPTION

DATE _____

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

CHNTB

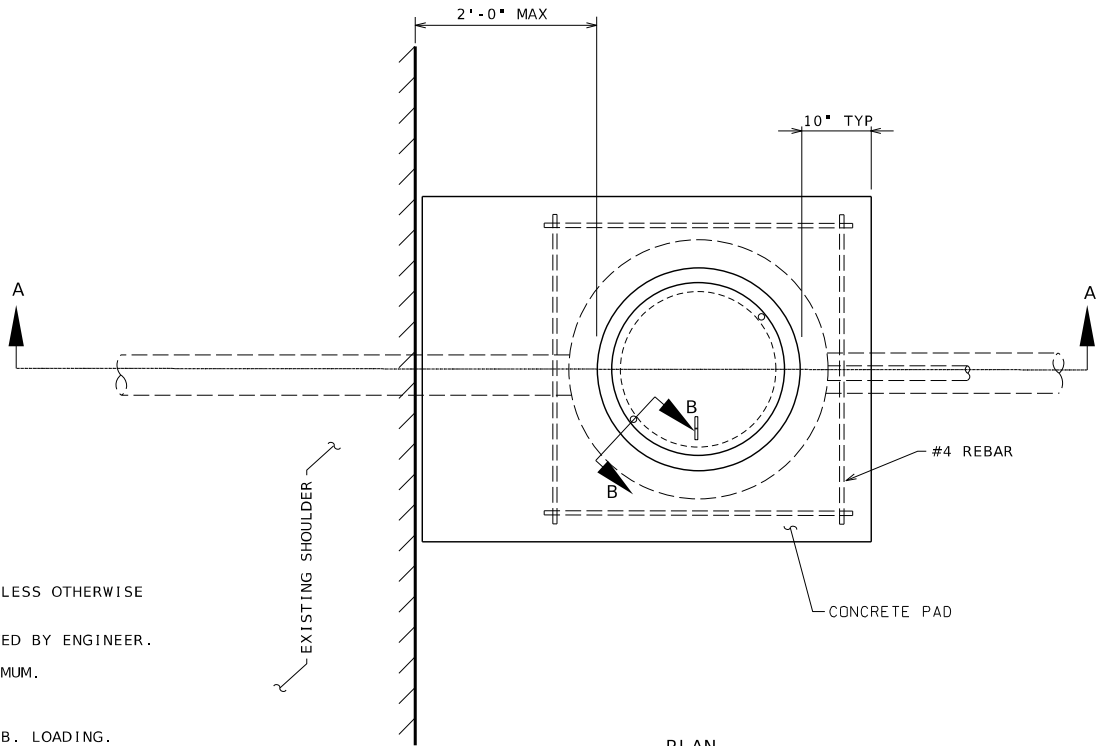
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KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

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

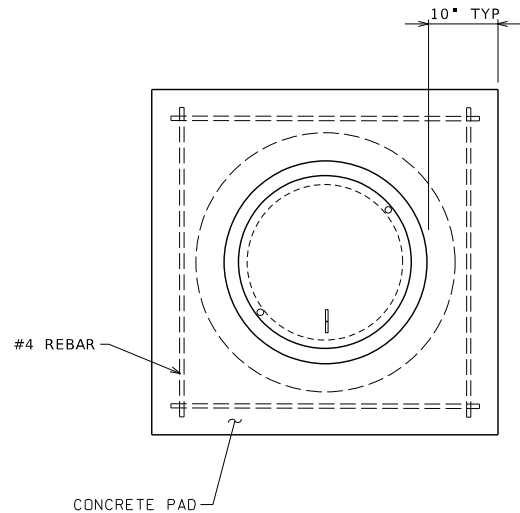
REV.

NOTES:

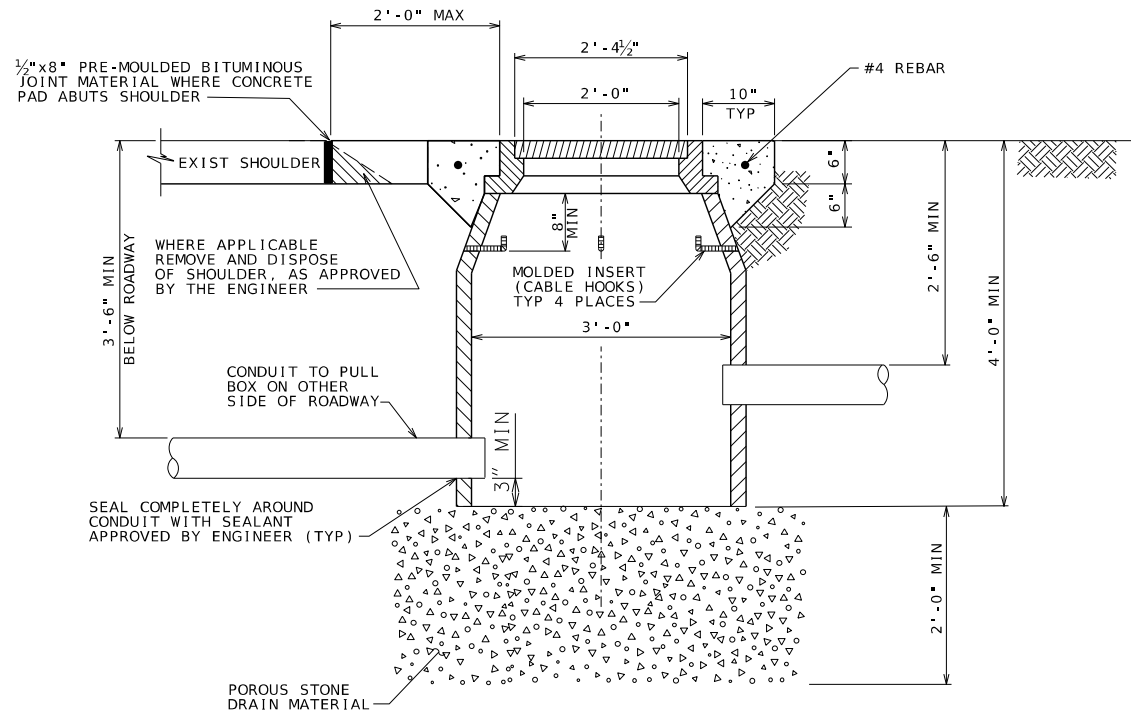
1. ALL DIMENSIONS SHOWN ARE NOMINAL, UNLESS OTHERWISE SPECIFIED.
2. BOLT CLEANOUT DETAIL SHALL BE APPROVED BY ENGINEER.
3. ALL CONCRETE SHALL BE 3,000 PSI MINIMUM.
4. LIFT HOLE REQUIRED ON ALL COVERS.
5. COVER SHALL BE A MINIMUM OF 20,000 LB. LOADING.
6. STONE DRAIN MATERIAL SHALL CONFORM TO SECTION 1009 OF THE STANDARD SPECIFICATIONS.
7. LABEL ALL COVERS "KC SCOUT ITS" UNLESS NOTED OTHERWISE ON PLANS.



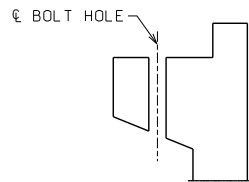
PLAN
PULL BOX ADJACENT TO SHOULDER



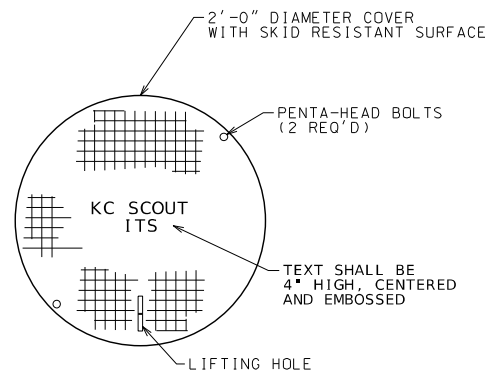
PLAN
PULL BOX GREATER
THAN 2'-0" FROM SHOULDER



SECTION A-A



SECTION B-B
TYPICAL BOLT CLEANOUT



KC SCOUT COVER

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FIBER SPLICE VAULT DETAILS

DETAIL SHEET
FIBER SPLICE VAULT

SHEET 4 OF 10



THIS SHEET HAS BEEN
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DATED ELECTRONICALLY.

DATE PREPARED
5/31/2024

ROUTE STATE
VAR MO

DISTRICT SHEET NO.
KC 20

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

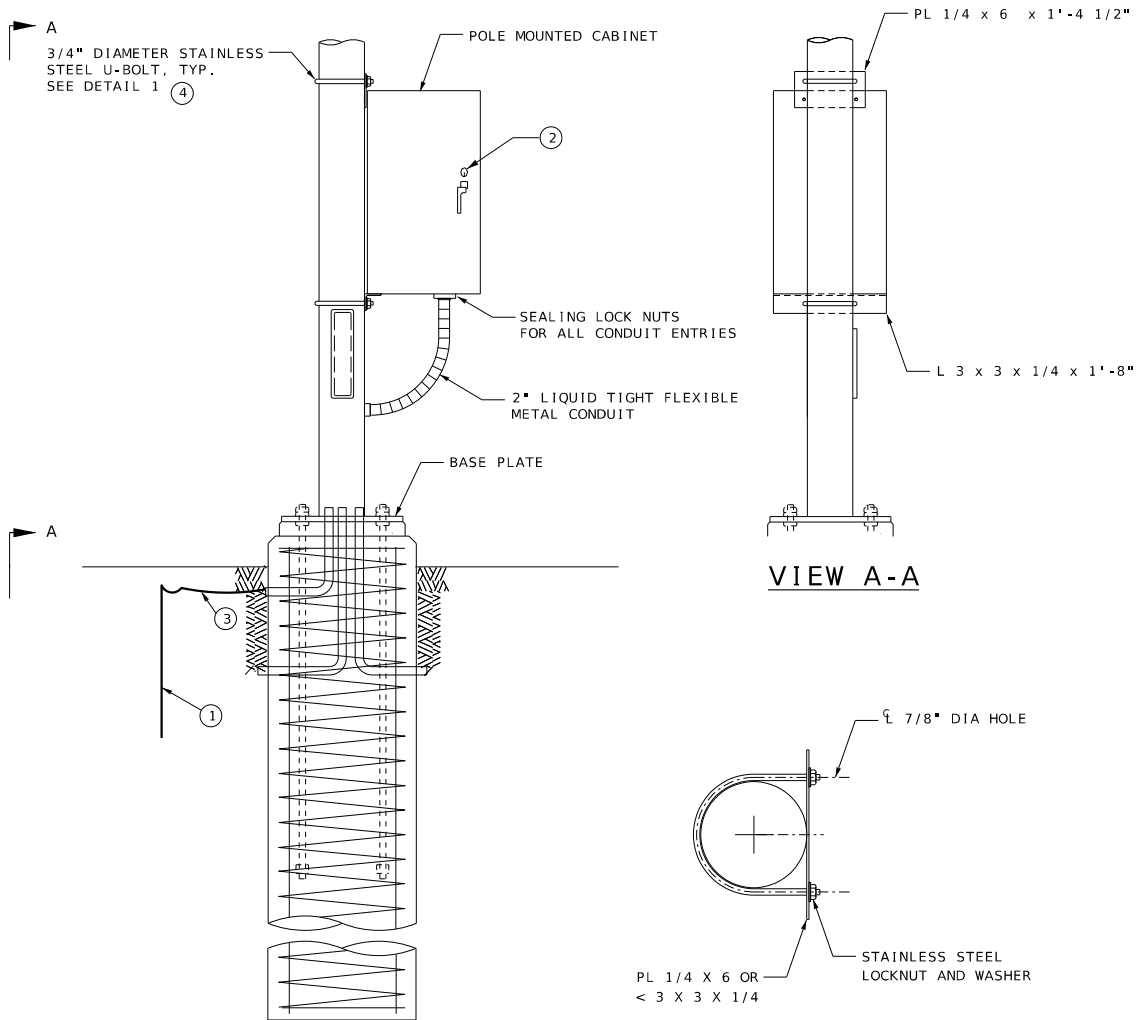
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TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



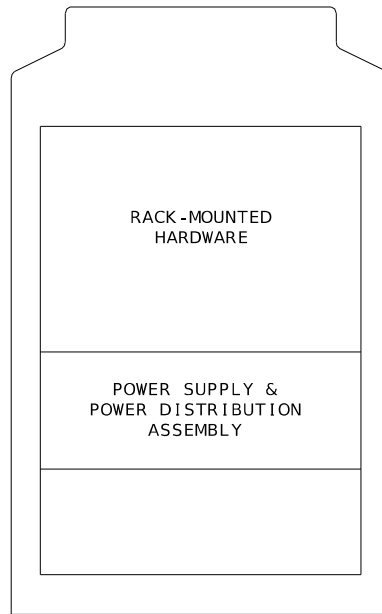
DETAIL 1 ④

TOP CONNECTION SHOWN,
BOTTOM SIMILAR

POLE-MOUNTED CABINET NOTES:

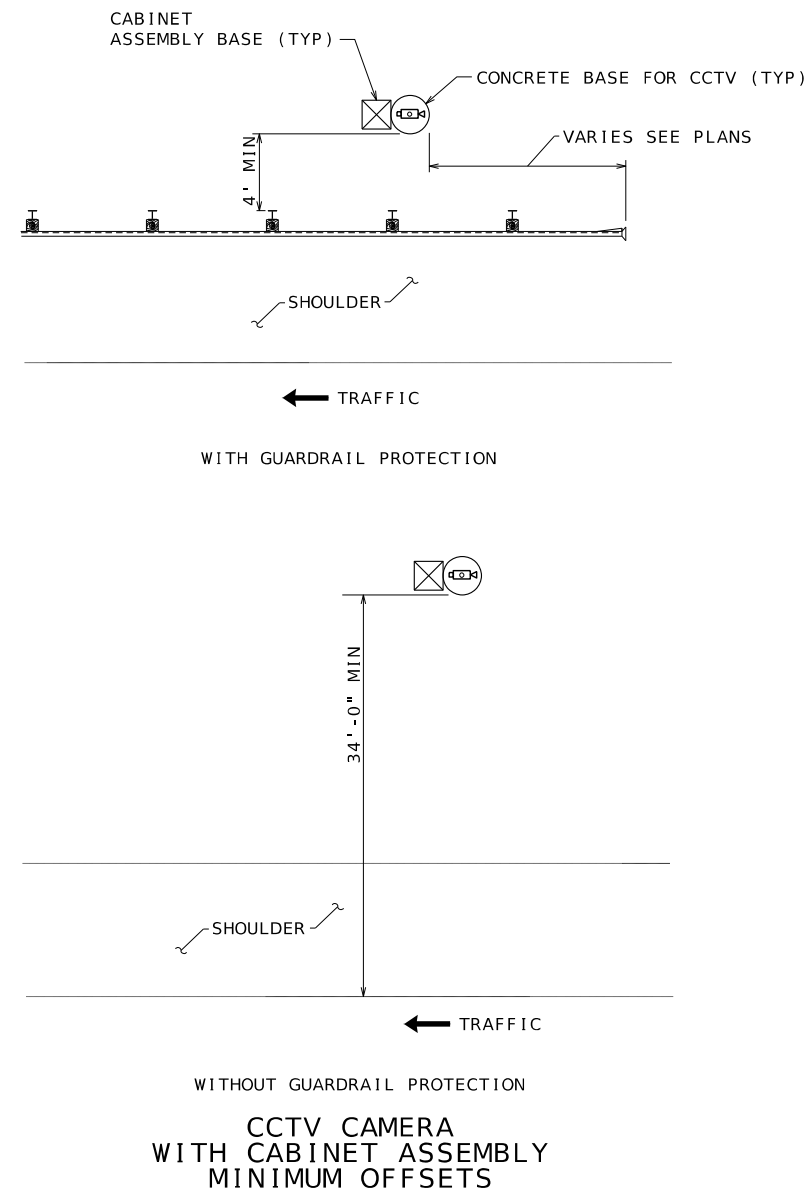
- ① GROUND ROD $\frac{3}{4}$ " DIA. x 8' MIN. IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30" DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED. INSTALL ADDITIONAL GROUND RODS AS REQUIRED TO MEET GROUNDING REQUIREMENTS.
- ② #2 CORBIN LOCK
- ③ MINIMUM #4 TIN-PLATED COPPER WIRE.
- ④ STAINLESS STEEL BANDS MAY BE USED, IF THE ABILITY TO SUPPORT THE CABINET LOAD IS DEMONSTRATED TO THE ENGINEER.
- ⑤ CABINET ATTACHMENT METHOD TO BE APPROVED BY ENGINEER. ALL CONDUIT TO ENTER CABINET THROUGH BOTTOM USING A WEATHER TIGHT COUPLING.
- ⑥ CABINET GROUND (MINIMUM #4 TIN-PLATED COPPER WIRE) TO BE CONNECT TO GROUND ROD.
- ⑦ ALL EXPOSED CONDUIT TO BE GALVANIZED STEEL. USE AN ENGINEER APPROVED COUPLE TO TRANSITION FROM STEEL TO HDPE CONDUIT.
- ⑧ ONE INCH CONDUIT FOR GROUNDING WIRE.

CABINET POLE MOUNT



CABINET POLE MOUNT

CABINET ASSEMBLY LAYOUT DETAILS



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DETAIL SHEET
POLE-MOUNTED CABINET
DETAILS & CAMERA POLE
OFFSET DETAILS

SHEET 5 OF 10



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

DATE PREPARED
5/31/2024

ROUTE STATE
VAR MO
DISTRICT SHEET NO.
KC 21

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

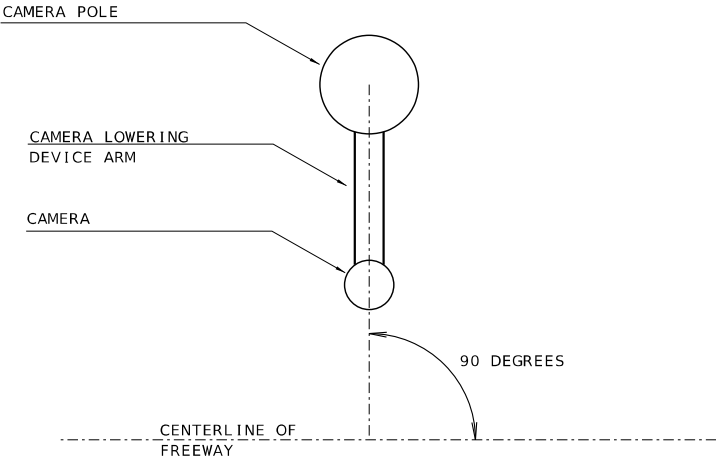


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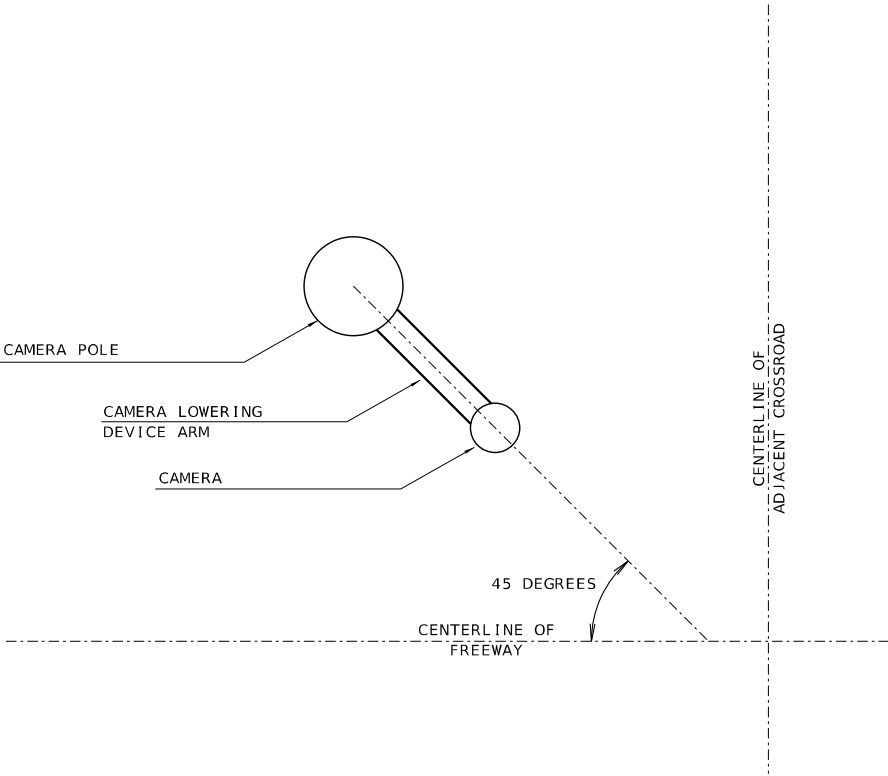
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KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

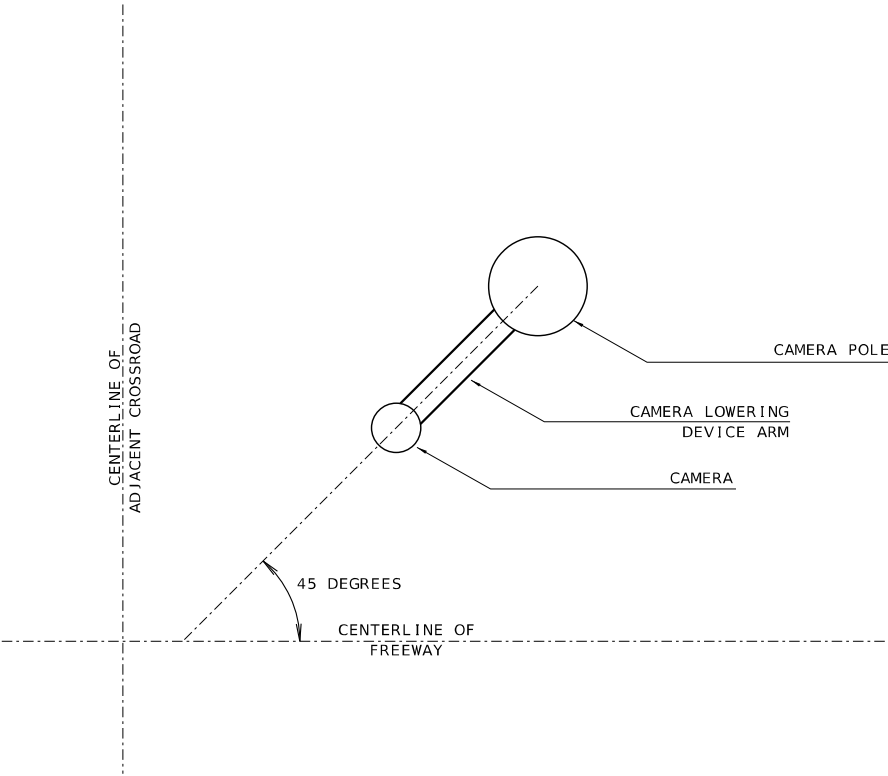
CAMERA ORIENTATION TO ROADWAY		
SHT. NO.	CAMERA LOCATION	CAMERA MOUNTING ANGLE
8	M071SBC-27	90
9	M071NBC-26	90
10	M071NBC-25	90
11	M071NBC-24	45
12	M071SBC-23	45
13	M071SBC-22	90
14	M435NBC-07A	90
15	M050SBC-01B	90
16	M049NBC-32A	45



90 DEGREE CONFIGURAITON
NOT TO SCALE



45 DEGREE CONFIGURAITON
NOT TO SCALE



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DETAIL SHEET
CAMERA POLE
ORIENTATION

SHEET 6 OF 10



THIS SHEET HAS BEEN
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DATE PREPARED
5/31/2024

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
KC	22

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

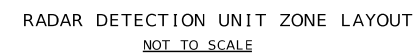
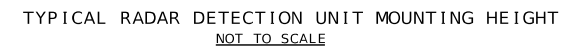
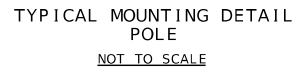
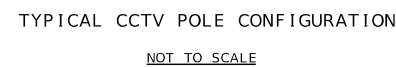
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

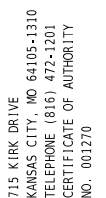
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



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SHEET 7 OF 10



DESIGN CRITERIA

2004 MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17TH EDITION) WITH CURRENT INTERIMS, AND AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, SIXTH EDITION (2013) WITH CURRENT INTERIMS.

DESIGN WIND VELOCITY
DESIGN ICE LOAD

90 MPH
3 PSF

MAXIMUM HORIZONTAL DEFLECTION AT THE TOP OF THE POLE COMPLETELY ASSEMBLED WITH CCTV CAMERA ATTACHED DUE TO A 35 MPH WIND (V) SHALL NOT EXCEED 1".

CLASS B-2 CONCRETE (DRILLED SHAFTS & ROCK SOCKETS) $f'_c = 4,000$ psi
REINFORCING STEEL (GRADE 60) $f_y = 60$ ksi

 $f_y = 55 \text{ ksi}$

STRUCTURAL STEEL (CCTV POLES)
(ASTM A595 GR. A or A572 GR. 55)

THE AVAILABILITY OF ALL STEEL SHAPES DESIGNATED ON THESE PLANS SHALL BE VERIFIED BY THE CONTRACTOR.

POSTS AND CONNECTION PLATES ATTACHED THERETO SHALL BE CONSIDERED MAIN LOAD CARRYING MEMBERS SUBJECT TO TENSILE STRESSES AND SHALL MEET SUPPLEMENTARY REQUIREMENTS FOR NOTCH TOUGHNESS.

STEEL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR. 55. HEAVY HEX STEEL NUTS SHALL CONFORM TO ASTM A563. STEEL WASHERS SHALL CONFORM TO ASTM F436. ALL EXPOSED HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A153.

STEEL CAPS FOR TOP OF POSTS SHALL CONFORM TO ASTM SPECIFICATION A27 GRADE 70-36.

WELDING OF STEEL SHALL BE AS SPECIFIED IN AWS D1.1.

AFTER COMPLETE FABRICATION, EACH STEEL SECTION SHALL BE HOT -DIPPED GALVANIZED ACCORDING TO THE REQUIREMENTS OF ASTM A123.

ALL REINFORCEMENT STEEL SHALL BE ASTM 615 GRADE 60.

ALL CONCRETE FOR FOUNDATIONS SHALL BE CLASS B-2 CONCRETE UNLESS OTHERWISE SPECIFIED.

ALL GROUT SHALL BE IN ACCORDANCE WITH SEC 1066, MORTAR FOR GROUT.

SHOP DRAWINGS OF STRUCTURAL STEEL, CONCRETE REINFORCING, AND TENON/CCTV ASSEMBLY SHALL BE PROVIDED FOR ENGINEER OF RECORD REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.

SPECIFIED PILE DEPTH WAS DETERMINED USING BROMS METHOD FOR COHESIONLESS AND COHESIVE SOILS AS DESCRIBED IN CHAPTER 13 OF AASHTO LTS 6TH ED (ASD). THE SAFETY FACTOR USED FOR PILE DEPTH DETERMINATION WAS 3.5. SUBGRADE SURROUNDING THE LOCATION OF THE FOUNDATION WAS ASSUMED TO BE RELATIVELY FLAT. NO ACCOMMODATIONS HAVE BEEN MADE FOR THE INSTALLATION OF FOUNDATION IN SLOPING SOILS.

FOR COHESIONLESS SOILS, A VALUE OF 25 DEGREES WAS ASSUMED FOR THE ANGLE OF INTERNAL FRICTION (ϕ) AND $110 \text{ PCF} - 62 \text{ PCF} = 48 \text{ PCF}$ WAS ASSUMED FOR THE EFFECTIVE UNIT WEIGHT OF SOIL (γ) WITH HIGH GROUND WATER TABLE.

FOR COHESIVE SOILS, A VALUE OF 0.5 KSF WAS ASSUMED FOR COHESIVE SOIL STRENGTH (C).

CONTRACTOR SHALL VERIFY THAT THE SOILS IN THE AREA OF INSTALLATION CONFORM TO OR EXCEED THE ASSUMED VALUES.



* TYPE 336S POLE MOUNTED CABINET

POLE TABLE								
POLE HEIGHT (FT) H	A				B			
	DIA. @ TOP	DIA. @ BOT.	THICKNESS	LENGTH (FT)	DIA. @ TOP	DIA. @ BOT.	THICKNESS	LENGTH (FT)
45	9 $\frac{3}{4}$ ''	16 ''	$\frac{1}{4}$ ''	45	—	—	—	—
70	11 $\frac{1}{4}$ ''	16 $\frac{1}{8}$ ''	$\frac{3}{8}$ ''	35	16 $\frac{1}{8}$ ''	21 ''	$\frac{3}{8}$ ''	35

DETAIL SHEET
CCTV CAMERA
POLE DETAILS

SHEET 8 OF 10



DATE PREPARED

6/30/2024

ROUTE	STATE
VAR	MO

DISTRICT	SHEET NO.
KC	24

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

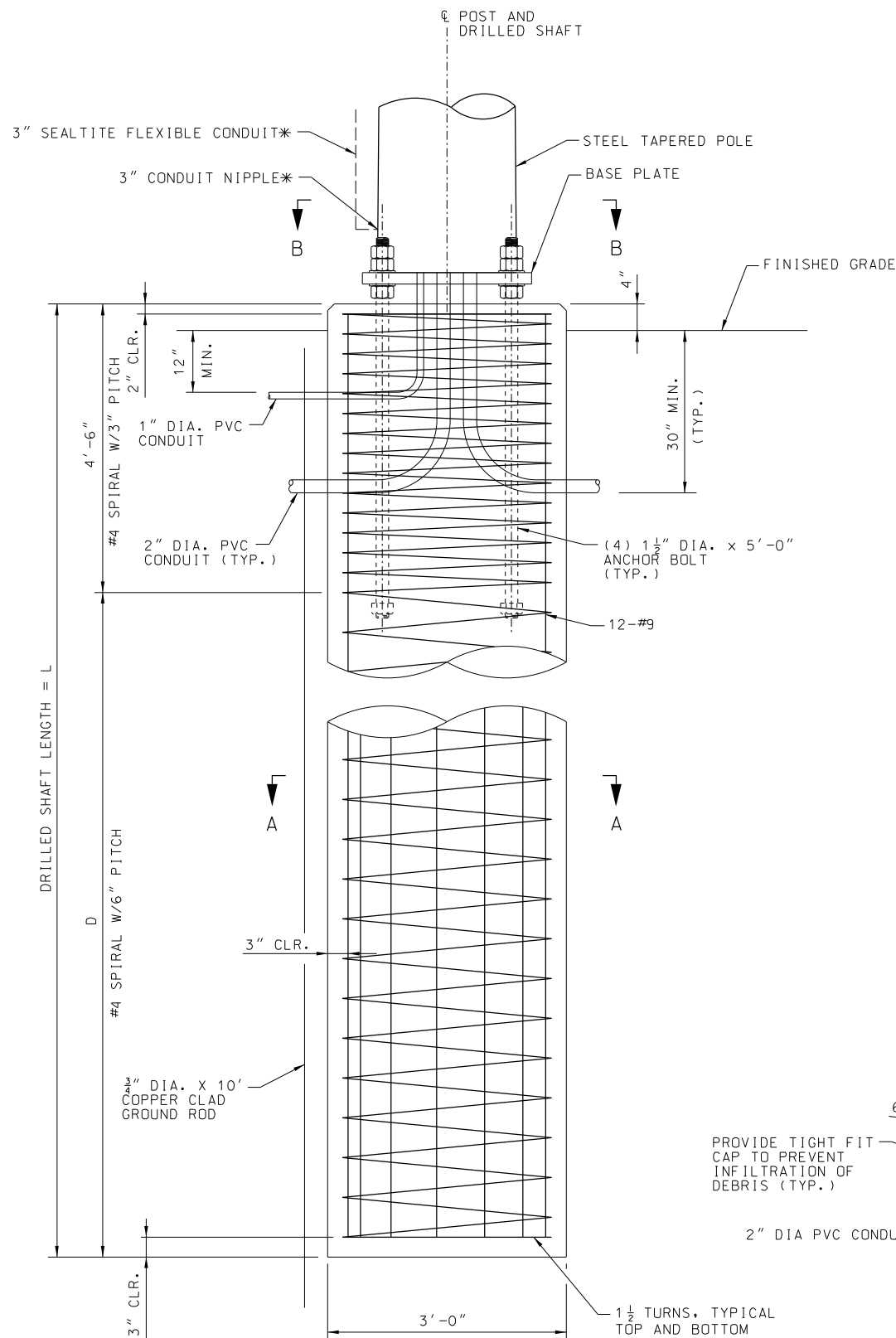
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

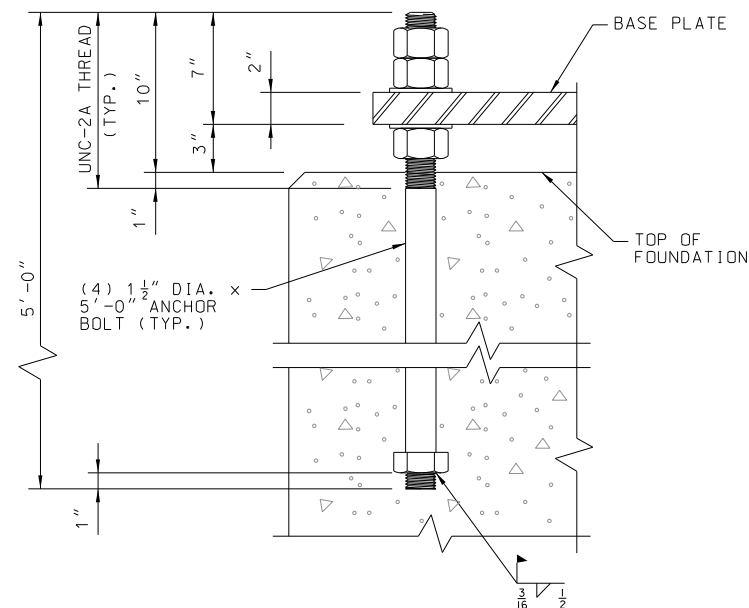
Kimley»»Horn
805 DENNIS VANDER AVENUE

MISSOURI
KANSAS CITY, MO 64105
CERTIFICATE OF
AUTHORITY NO. 001512

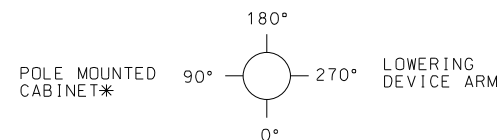


TYPICAL DRILLED SHAFT

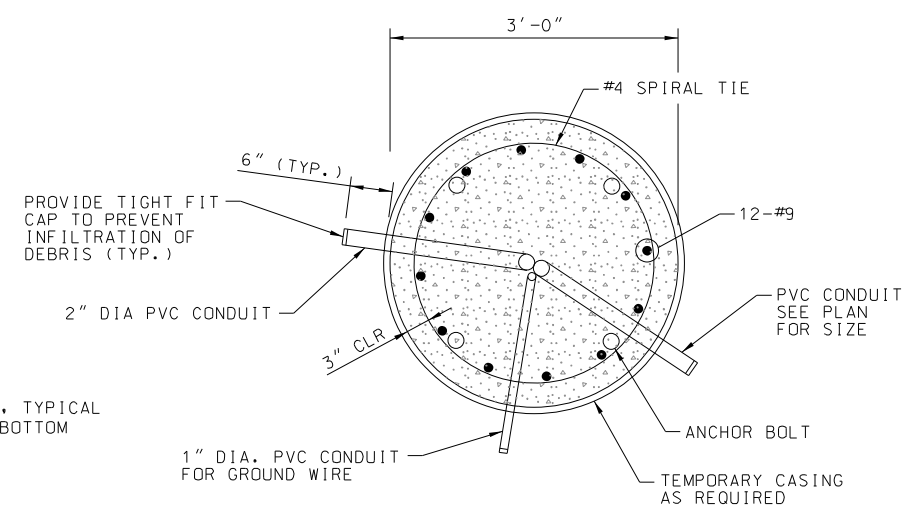
DRILLED SHAFT DIMENSIONS		
DRILLED SHAFT LENGTH = L	DIM D	DIM L
45'	5'-0"	9'-6"
70'	9'-0"	13'-6"



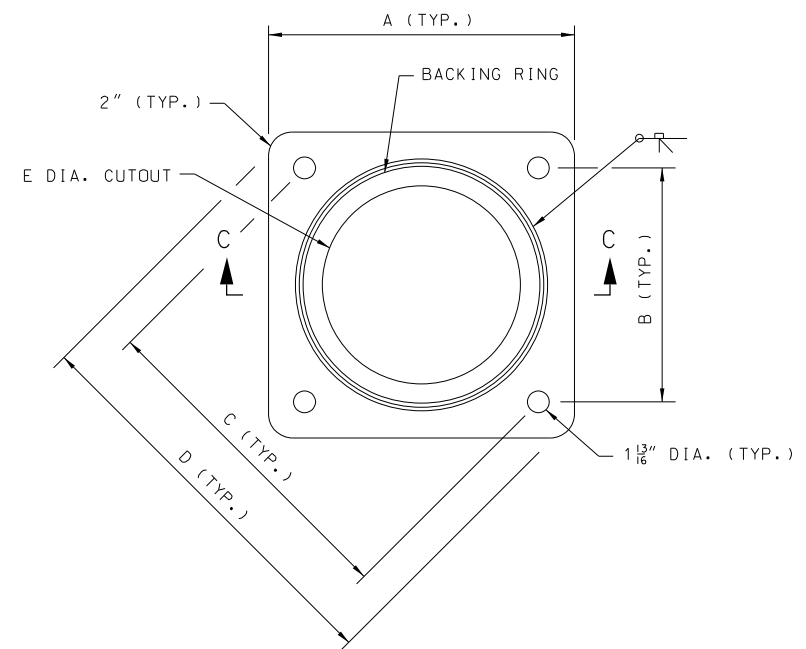
ANCHOR BOLT DETAIL



ASSEMBLY ORIENTATION

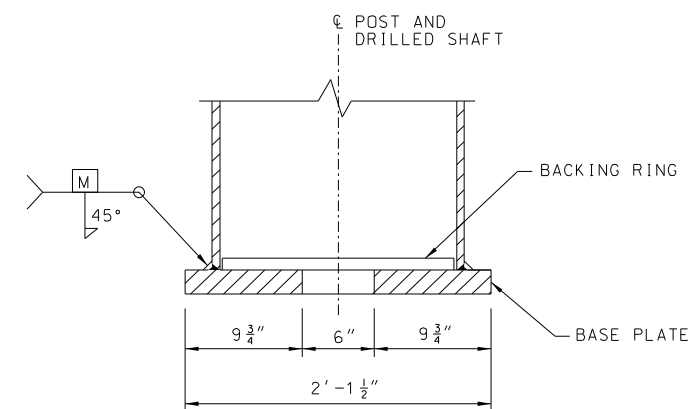


SECTION A-A



SECTION B-B

PLATE DIMENSIONS					
POST HEIGHT H	DIM A	DIM B	DIM C	DIM D	DIM E
45'	1'-10 1/2"	16 1/2"	1'-11 3/8"	2'-6"	9"
70'	2'-1 1/2"	19 1/2"	2'-3 1/2"	2'-9 1/2"	16"



SECTION C-C

NOTES:

INTEGRITY TESTING ON COMPLETED DRILLED SHAFTS FOR CCTV POLE FOUNDATIONS WILL NOT BE REQUIRED.

FOR LOCATION AND ORIENTATION OF 2" DIAMETER PVC CONDUIT SEE INDIVIDUAL SITE PLAN SHEET.

TEMPORARY STEEL CASING MAY BE REQUIRED DURING DRILLED SHAFT CONSTRUCTION TO PREVENT SOIL COLLAPSE.

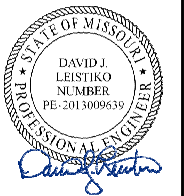
ALL ANCHOR BOLTS SHALL BE FULLY GALVANIZED.

IF ROCK IS ENCOUNTERED SHALLOWER THAN FOUNDATION LENGTH, DRILL ROCK SOCKET TO DESIGN DEPTH OR 4'-6" INTO SOUND ROCK.

NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK SOCKETS, TOP 5'-0" OF SHAFT SHALL BE FORMED.

DETAIL SHEET
CCTV CAMERA
POLE DETAILS

SHEET 9 OF 10



DATE PREPARED 5/30/2024	
ROUTE VAR	STATE MO
DISTRICT KC	SHEET NO. 25
COUNTY JACKSON	
JOB NO. JKU0026	
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)

Kimley»Horn

805 PENNSYLVANIA AVENUE
KANSAS CITY, MO 64105
CERTIFICATE OF
AUTHORITY NO. 001512



SECTION B-B



70ft POLE ONLY

NOTES:

ALL FOUNDATIONS SHALL BE GROUNDED.

IF THE GROUNDING ROD CANNOT BE INSTALLED VERTICALLY
WITHOUT DAMAGE, THE GROUND ROD MAY BE INSTALLED
AT 45 DEG (MAX.) FROM VERTICAL.

ALL CONDUITS AND ANCHOR BOLTS SHALL BE RIGIDLY
INSTALLED BEFORE THE CONCRETE IS PLACED. ANCHOR
BOLTS SHALL BE SPACED BY MEANS OF A TEMPLATE, THE
CENTER OF WHICH SHALL COINCIDE WITH THE CENTER
OF THE FOUNDATION.

HANDHOLD SHALL BE APPROXIMATELY 6"x12". HANDHOLE FRAME SHALL BE REINFORCED SO THAT THE POLE STRENGTH IS NOT REDUCED. SUPPLY 1/8" HANDHOLE COVER WITH 3/4" LONG BOLTS FOR ATTACHING COVER TO HANDHOLE REINFORCING.

TENON ASSEMBLY SHALL BE PER THE LOWERING DEVICE MANUFACTURER'S DETAILS. COORDINATE POLE TOP PLATE DETAILS WITH TENON ASSEMBLY DETAILS. TENON ASSEMBLY SHALL BE SHOWN ON SHOP DRAWING SUBMITTAL.



ROUTE	STATE
VAR	MO

DISTRICT	SHEET NO.
KC	26

COUNTY
JACKSON

JACKSON
JOB NO.
11410006

JKU0026
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



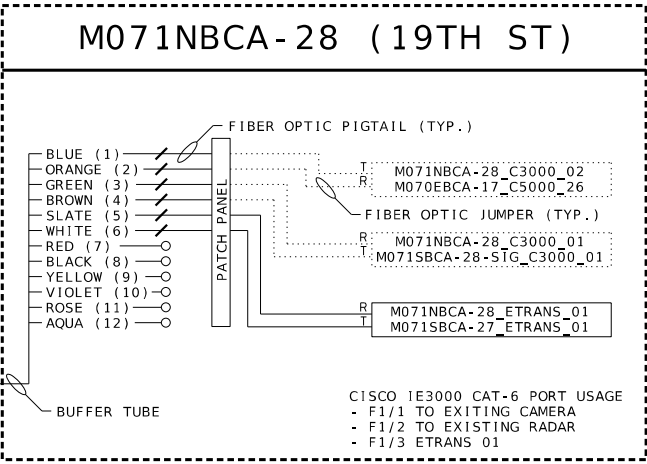
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Kimley»»Horn

805 PENNSYLVANIA AVENUE
KANSAS CITY, MO 64105
CERTIFICATE OF
AUTHORITY NO. 001512

DETAIL SHEET
CCTV CAMERA
POLE DETAILS

SHEET 10 OF 10



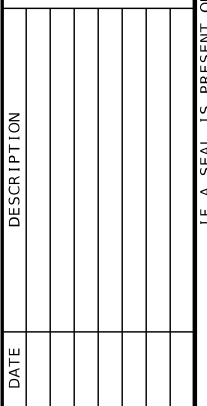
-  FIBER SPLICE
 FIBER SPLICE OF EACH FIBER IN BUFFER TUBE
 UNTERMINATED FIBER/BUFFER TUBE/CABLE
T TRANSMIT
R RECEIVE

XYZ
 XYZ

 FIBER DEVICE IN LOCAL CABINET
 FIBER DEVICE LOCATION AT CABINET
 FIBER SPLICE LOCATION AT HANDHOLE/SPLICE VAULT

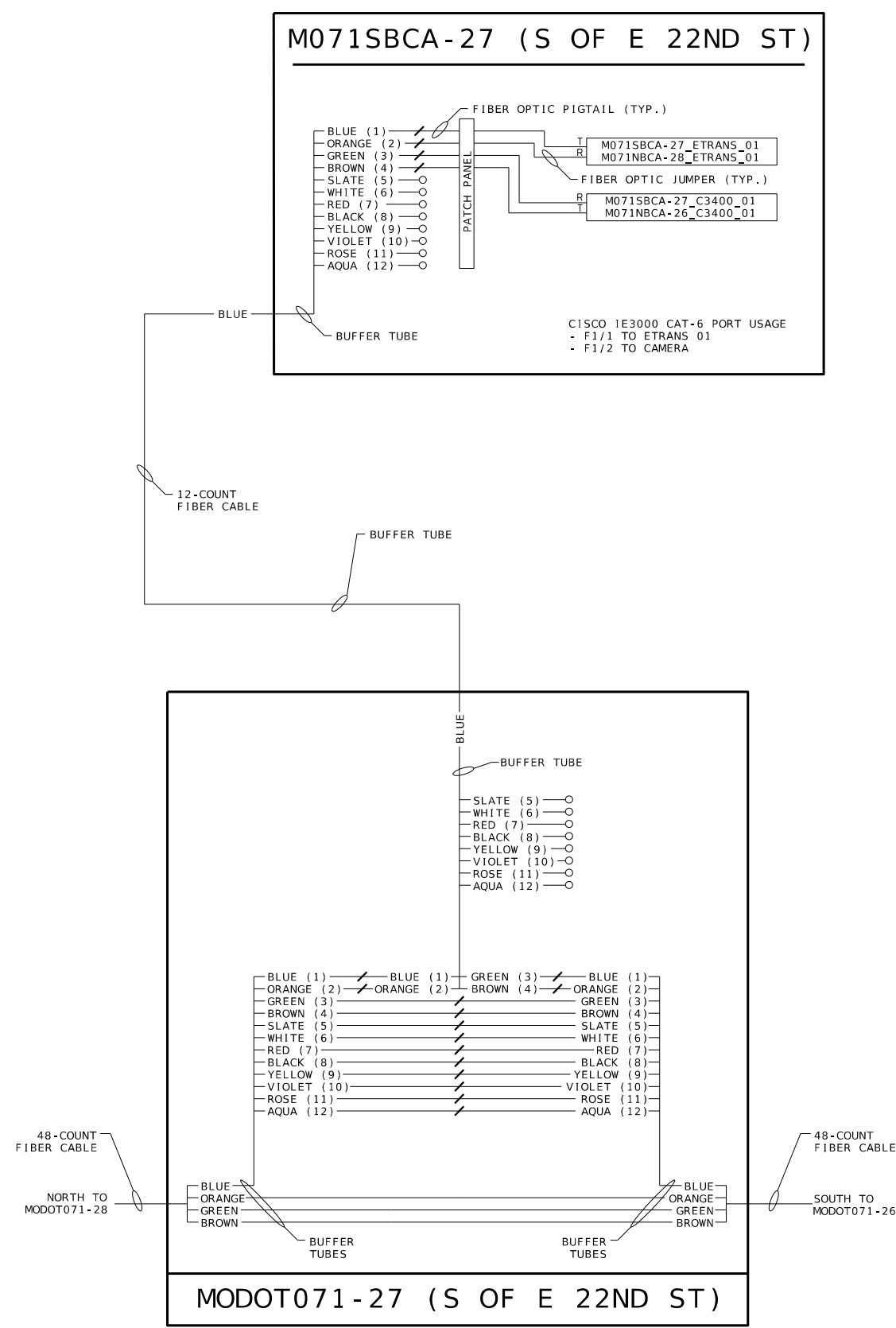
1. UNUSED BUFFER TUBES SHALL PASS THROUGH SPLICE ENCLOSURE WITHOUT SPLICING. DO NOT BREAK OUT INDIVIDUAL FIBERS.
2. UNTERMINATED FIBERS/BUFFER TUBES SHALL BE STORED IN SPLICE TRAYS.
3. ALL PIGTAILS AND JUMPERS SHALL BE TERMINATED WITH SC STYLE CONNECTORS. PATCH PANELS (FIBER DISTRIBUTION UNITS) TO BE CONFIGURED WITH SC STYLE CONNECTORS.
4. FOR LOCATIONS WITH MULTIPLE SPLICE TRAYS CONTRACTOR SHALL DENOTE ON DRAWINGS WHICH SPLICE TRAY EACH SPLICE IS STORED IN.
5. ALL FIBERS IN THE BUFFER TUBE(S) SHALL BE SPLICED IN THIS ENCLOSURE.
6. DASHED FIBERS, BUFFER TUBES, CABLES, PIGTAILS, JUMPERS AND SPLICES ARE EXISTING.

DETAIL SHEET
FIBER SPLICE
DIAGRAM
US 71 & 19TH ST.
SHEET 1 OF 5



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

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



- NOTES:
1. UNUSED BUFFER TUBES SHALL PASS THROUGH SPLICE ENCLOSURE WITHOUT SPLICING. DO NOT BREAK OUT INDIVIDUAL FIBERS.
 2. UNTERMINATED FIBERS/BUFFER TUBES SHALL BE STORED IN SPLICE TRAYS.
 3. ALL PIGTAILS AND JUMPERS SHALL BE TERMINATED WITH SC STYLE CONNECTORS. PATCH PANELS (FIBER DISTRIBUTION UNITS) TO BE CONFIGURED WITH SC STYLE CONNECTORS.
 4. FOR LOCATIONS WITH MULTIPLE SPLICE TRAYS CONTRACTOR SHALL DENOTE ON DRAWINGS WHICH SPLICE TRAY EACH SPLICE IS STORED IN.
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 6. DASHED FIBERS, BUFFER TUBES, CABLES, PIGTAILS, JUMPERS AND SPLICES ARE EXISTING.

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DETAIL SHEET
FIBER SPLICE
DIAGRAM
US 71 & S OF E 22ND ST
SHEET 2 OF 5

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER
E-202000006
REGISTERED PROFESSIONAL ENGINEER

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

DATE PREPARED
5/31/2024

ROUTE
VAR

STATE
MO

DISTRICT
KC

SHEET NO.
28

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

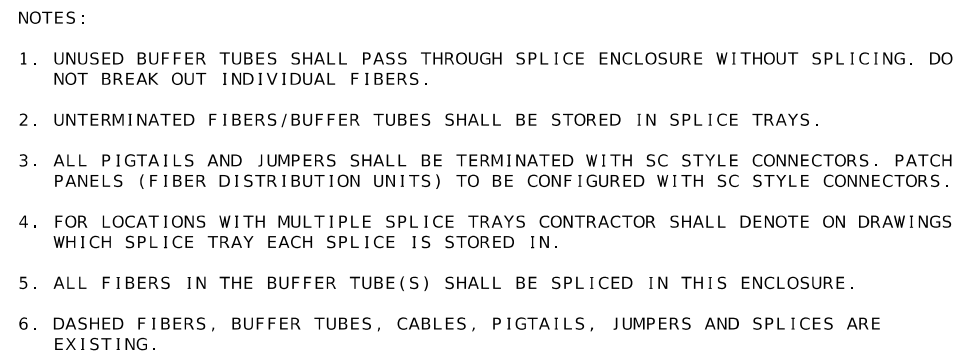
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

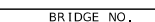
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DETAIL SHEET
FIBER SPLICE
DIAGRAM
US 71 & PASEO
SHEET 3 OF 5



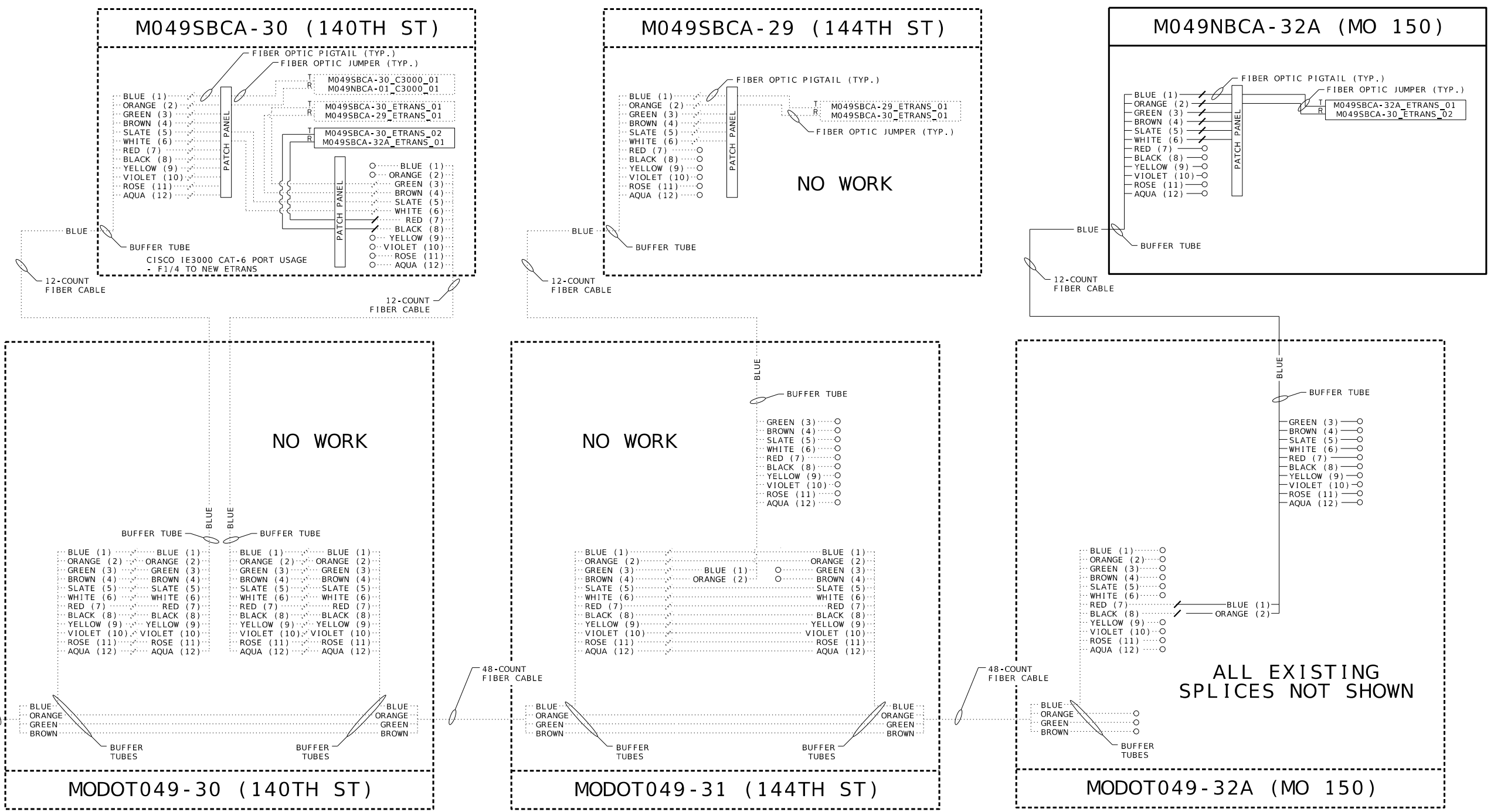
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

INTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



LEGEND

FIBER SPLICE

FIBER SPLICE OF EACH FIBER IN BUFFER TUBE

UNTERMINATED FIBER/BUFFER TUBE/CABLE

T

TRANSMIT

R

RECEIVE

XYZ

FIBER DEVICE IN LOCAL CABINET

XYZ

FIBER DEVICE IN DESTINATION CABINET

FIBER DEVICE LOCATION AT CABINET

FIBER SPLICE LOCATION AT HANDHOLE/SPLICE VAULT

- NOTES:
1.

UNUSED BUFFER TUBES SHALL PASS THROUGH SPLICE ENCLOSURE WITHOUT SPLICING. DO NOT BREAK OUT INDIVIDUAL FIBERS.
2.

UNTERMINATED FIBERS/BUFFER TUBES SHALL BE STORED IN SPLICE TRAYS.
3.

ALL PIGTAILS AND JUMPERS SHALL BE TERMINATED WITH SC STYLE CONNECTORS. PATCH PANELS (FIBER DISTRIBUTION UNITS) TO BE CONFIGURED WITH SC STYLE CONNECTORS.
4.

FOR LOCATIONS WITH MULTIPLE SPLICE TRAYS CONTRACTOR SHALL DENOTE ON DRAWINGS WHICH SPLICE TRAY EACH SPLICE IS STORED IN.
5.

ALL FIBERS IN THE BUFFER TUBE(S) SHALL BE SPLICED IN THIS ENCLOSURE.
6.

DASHED FIBERS, BUFFER TUBES, CABLES, PIGTAILS, JUMPERS AND SPLICES ARE EXISTING.

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DETAIL SHEET

FIBER SPLICE

DIAGRAM

I-49 AT MO 150

SHEET 5 OF 5

STATE OF MISSOURI

CHARLES A. MILLER

NUMBER E-20200806

REGISTERED PROFESSIONAL ENGINEER

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

DATE PREPARED 5/31/2024

ROUTE VAR STATE MO

DISTRICT KC SHEET NO. 31

COUNTY JACKSON

JOB NO. JKU0026

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)

HNTB

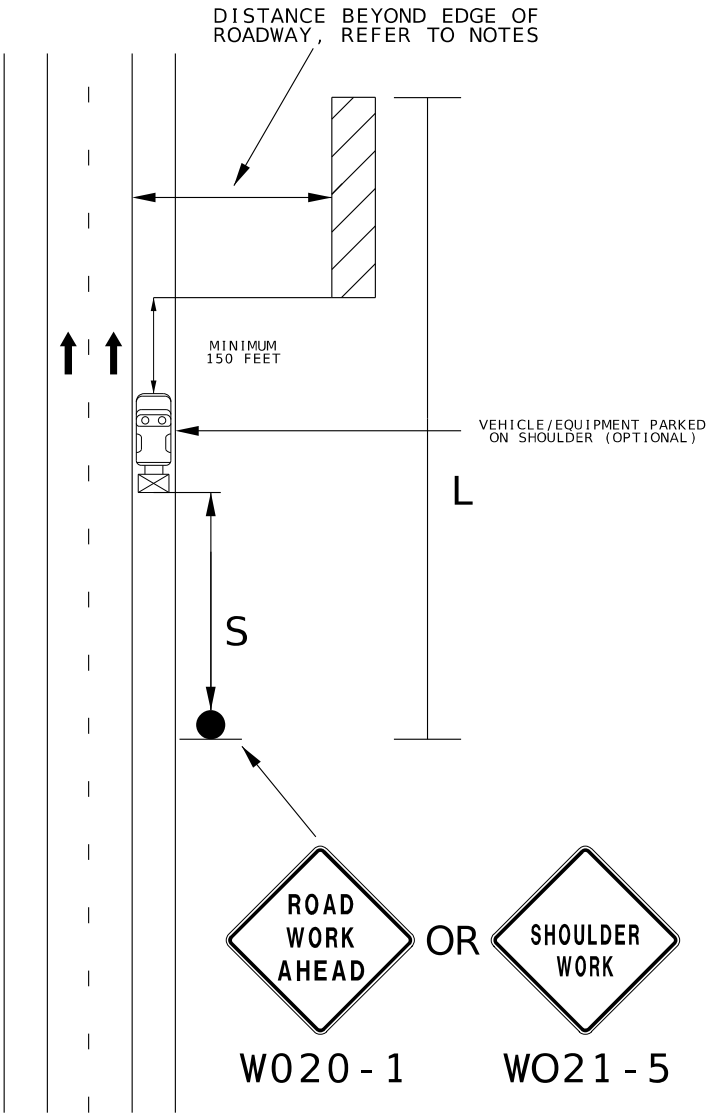
715 KIRK DRIVE

KANSAS CITY, MO 64105-1310

TELEPHONE (816) 472-1201

CERTIFICATE OF AUTHORITY NO. 001270

NOT TO SCALE



616.8.1S (TA-1S)
STATIONARY WORK
BEYOND THE SHOULDER

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		RECOMMENDED	CHANNELIZER SPACING (FT)	
	UNDIVIDED (S)	DIVIDED (S)	SHOULDER	LANE	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/WORK AREAS
0 - 35	200	200	-	-	-	-	-
40 - 45	350	350	-	-	-	-	-
50 - 55	500	500	-	-	-	-	-
60 - 70	1000	1000	-	-	-	-	-

1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
2. LANDE TAPER BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

TYPE OF ROADWAY	SIGN HEIGHT (MINIMUM)	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MI.
RURAL DIVIDED	1' PORTABLE 7' POST	2 MI.
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MI.
VEHICLE	48 INCHES RECOMMENDED	-

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▨ WORK AREA
- TMA - TRUCK MOUNTED ATTENUATOR

NOTES:

ADVANCE WARNING SIGNS MAY BE ELIMINATED IF AT LEAST ONE OF THE FOLLOWING CONDITIONS ARE MET:
1. WORK SPACE IS 15 FEET OR MORE FROM THE EDGE OF ANY ROADWAY.
2. WORK SPACE IS BEHIND THE CURB.
3. WORK SPACE IS BEHIND BARRIER OR GUARDRAIL.
4. HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS ARE ACTIVATED.

WHEN VEHICLES OR EQUIPMENT ARE PARKED ON THE SHOULDER:
1. ACTIVATE HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
2. POSITION THE PROTECTIVE VEHICLE/TMA A MINIMUM OF 150 FEET IN ADVANCE OF THE WORK SPACE, IF POSSIBLE.
3. ONCE YOU EXIT THE WORK VEHICLE, RETURN ONLY WHEN ADJUSTING POSITION OR READY LEAVE THE WORK LOCATION.

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TTC SHEET
TA-1S
WORK BEYOND SHOULDER
SHEET 1 OF 4



THIS SHEET HAS BEEN
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DATE PREPARED
5/31/2024
ROUTE
VAR
STATE
MO
DISTRICT
KC
SHEET NO.
32

COUNTY
JACKSON
JOB NO.
JKU0026
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

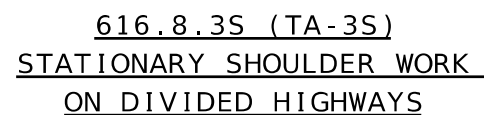
DESCRIPTION	DATE

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



HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

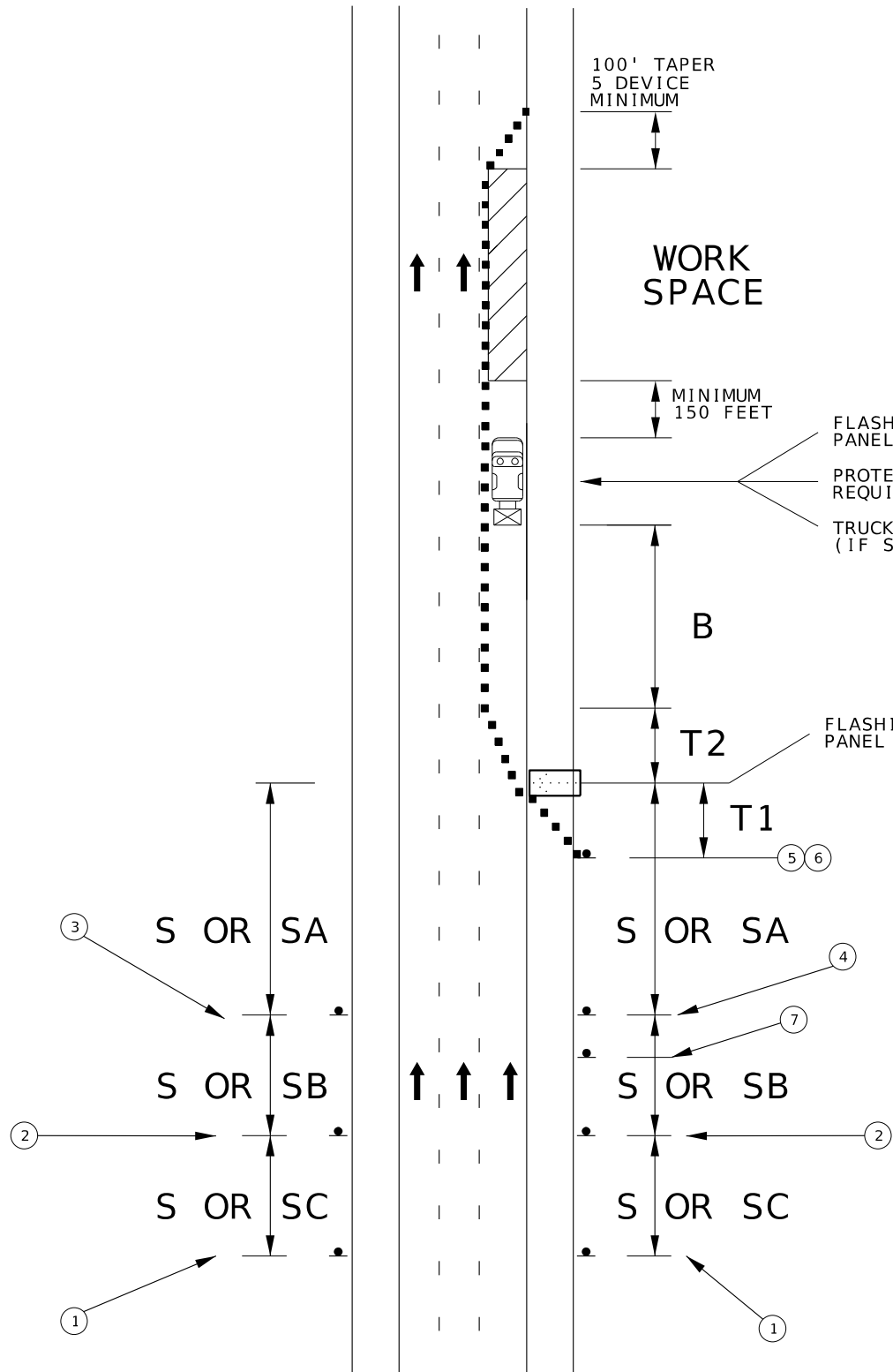


W020-1

1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
2. LANDE TAPER BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

1. ACTIVATE HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
2. POSITION THE PROTECTIVE VEHICLE/TMA A MINIMUM OF 150 FEET IN ADVANCE OF THE WORK SPACE IF POSSIBLE.
3. IF THE PROTECTIVE VEHICLE IS EQUIPPED WITH A TRUCK/TRAILER MOUNTED ATTENUATOR (TMA), PLACE A STATIC SIGN UNDER THE FLASHING ARROW PANEL AND USE FOUR-CORNER OR ALTERNATING DIAMOND CAUTION MODE.
4. A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE.
5. ONCE YOU EXIT THE WORK VEHICLE, RETURN ONLY WHEN ADJUSTING POSITION OR READY TO LEAVE THE WORK LOCATION.

REV.



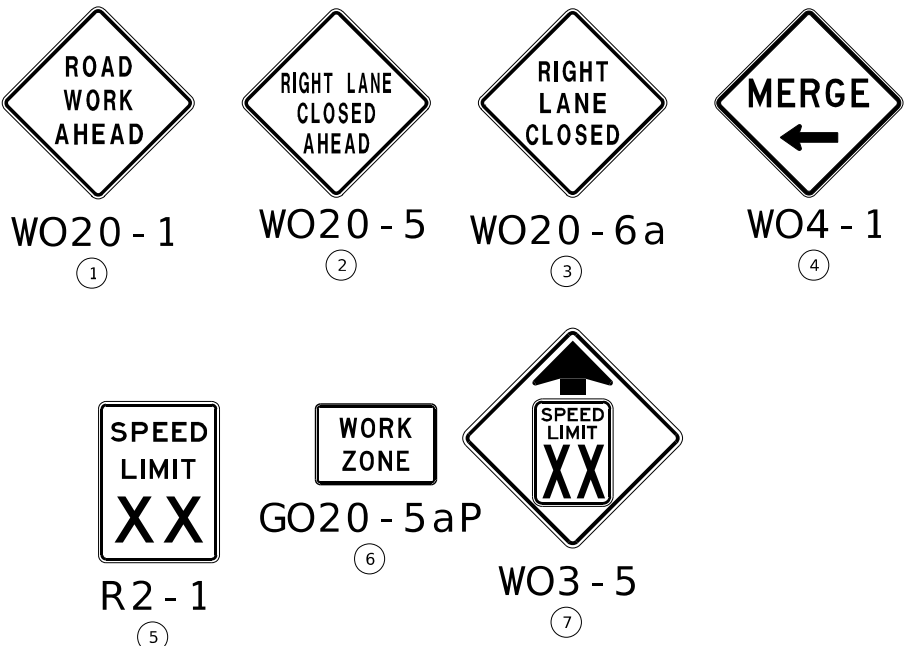
SPEED PERMANENT POSTED (MPH)	SIGN SPACING (FT)	TAPER LENGTH (FT)		RECOMMENDED BUFFER LENGTH (FT) (B)	CHANNELIZER SPACING (FT)	
		SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0 - 35	200	70	245	250	35	40
40 - 45	500	150	540	360	40	80
50 - 55	1000	185	660	495	50	80
60 - 70	SA - 1000 SB - 1500 SC - 2640	235	840	730	60	120

1. SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
2. LANE TAPER BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

TYPE OF ROADWAY	SIGN HEIGHT (MINIMUM) 7' POST	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MI.
RURAL DIVIDED	1' PORTABLE 7' POST	2 MI.

TRAFFIC CONTROL LEGEND

- △ SIGN (SINGLE SIDED)
- CHANNELIZER
- FLASHING ARROW PANEL (FAP)
- WORK AREA
- TMA - TRUCK MOUNTED ATTENUATOR



NOTES:

- ALWAYS USE ADVANCE WARNING SIGNS AND CHANNELIZERS:
- USE EPG 616.33SD (TA-33SD) SHORT DURATION LANE CLOSURE ON A MULTI-LANE HIGHWAY FOR SETTING ADVANCE WARNING SIGNS.
- ALWAYS USE A PROTECTIVE VEHICLE WITH A FLASHING ARROW PANEL (FAP) AND A TRUCK/TRAILER MOUNTED ATTENUATOR (TMA).
- ACTIVATE HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
 - POSITION THE PROTECTIVE VEHICLE/TMA A MINIMUM OF 150 FEET IN ADVANCE OF THE WORK SPACE, IF POSSIBLE.
 - OPERATE THE FAP IN THE FOUR-CORNER OR ALTERNATING DIAMOND CAUTION MODE.
- FOR ROADWAYS POSTED AT 45 MPH OR LESS, A WORK VEHICLE MAY BE USED AS THE PROTECTIVE VEHICLE.
- ACTIVATE HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
 - POSITION THE WORK VEHICLE/PROTECTIVE VEHICLE A MINIMUM OF 150 FEET IN ADVANCE OF THE WORK SPACE, IF POSSIBLE.
 - IF USED, OPERATE THE FLASHING ARROW PANEL IN THE FOUR-CORNER OR ALTERNATING DIAMOND CAUTION MODE.
 - ONCE YOU EXIT THE WORK VEHICLE, RETURN ONLY WHEN ADJUSTING POSITION OR READY TO LEAVE THE WORK LOCATION.
- FOR OTHER OPERATIONS, REFER TO SPEED LIMIT GUIDANCE EPG 616.12 WORK ZONE SPEED LIMITS.

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616.8.33S (TA-33S)
STATIONARY LANE CLOSURE
ON DIVIDED HIGHWAYS

NOT TO SCALE

TTC SHEET
TA-33S
SINGLE LANE CLOSURE
SHEET 3 OF 4



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

DATE PREPARED
5/31/2024

ROUTE
VAR

STATE
MO

DISTRICT
KC

SHEET NO.
34

COUNTY
JACKSON

JOB NO.
JKU0026

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

MODOT

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

REV.

