

DESIGN DESIGNATION

A.A.D.T. - 2025 = 6400
A.A.D.T. - 2035 = 7500
D.H.V. = 1.68%
T = 3.7%
V = 55 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

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



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (2 SHEETS)---	2
QUANTITIES (QU) (6 SHEETS)-----	3
SPECIAL SHEET (SS)-----	4
TRAFFIC CONTROL (TC)-----	5-12
MIDBLOCK CROSSING -----	1-5



Benjamin Stephen McCabe, Sr.
08/12/2025 9:43:50 AM
BENJAMIN STEPHEN MCCABE SR - CIVIL
MO-PE-2003015005

DATE PREPARED
8/12/2025

ROUTE 33 STATE MO

DISTRICT KC SHEET NO. 1

COUNTY CLAY

JOB NO. JKU0035

CONTRACT ID.

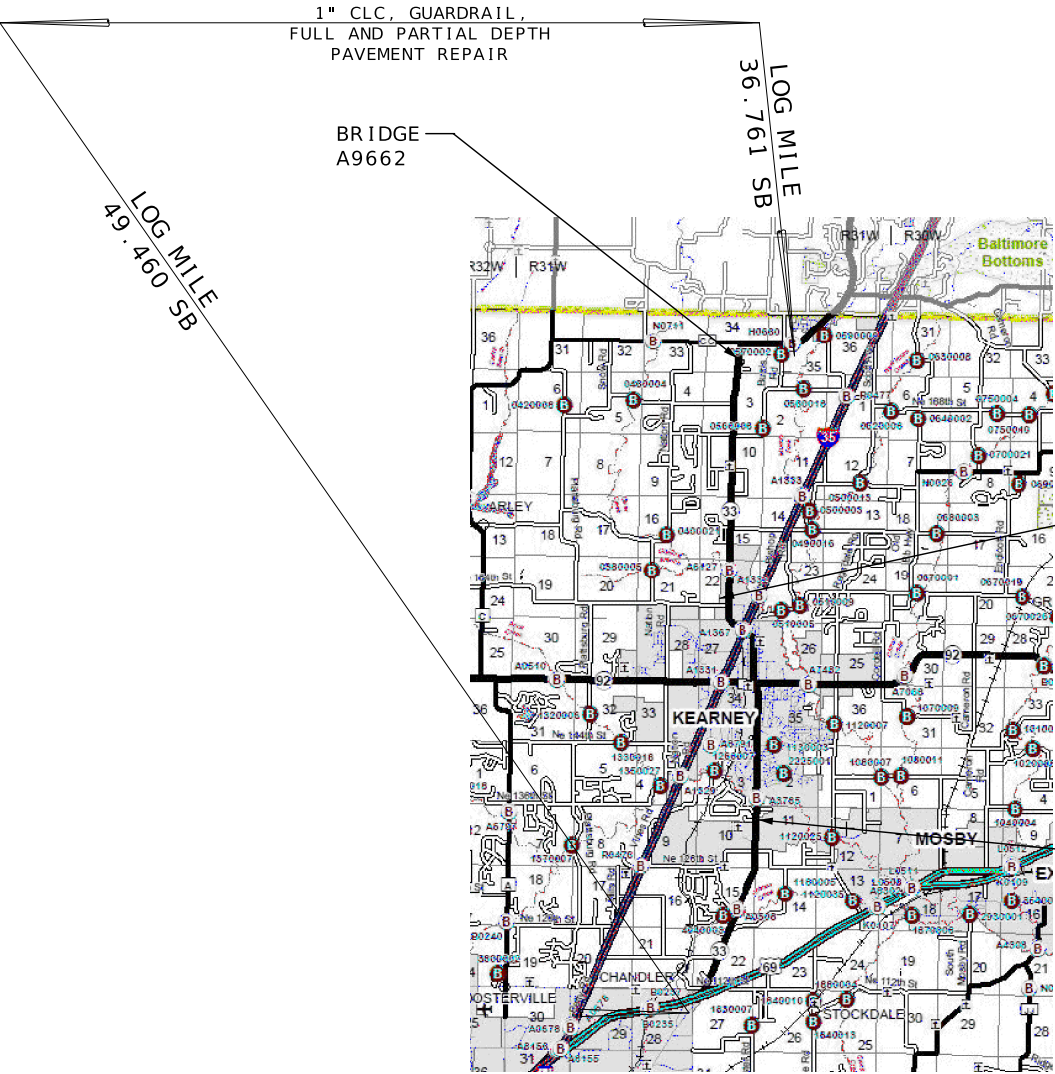
PROJECT NO.

BRIDGE NO.

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



BRIDGE
A6127

BRIDGE
A3785

NOT TO SCALE

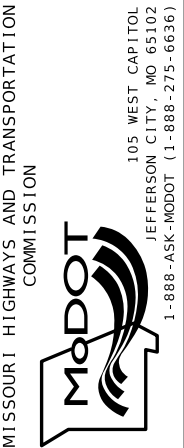
LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 36.761
END OF PROJECT	LOG MILE 49.460
APPARENT LENGTH	67050.72 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A9662	21.12 FEET
BRIDGE A6127	200.64 FEET
BRIDGE A3785	227.04 FEET

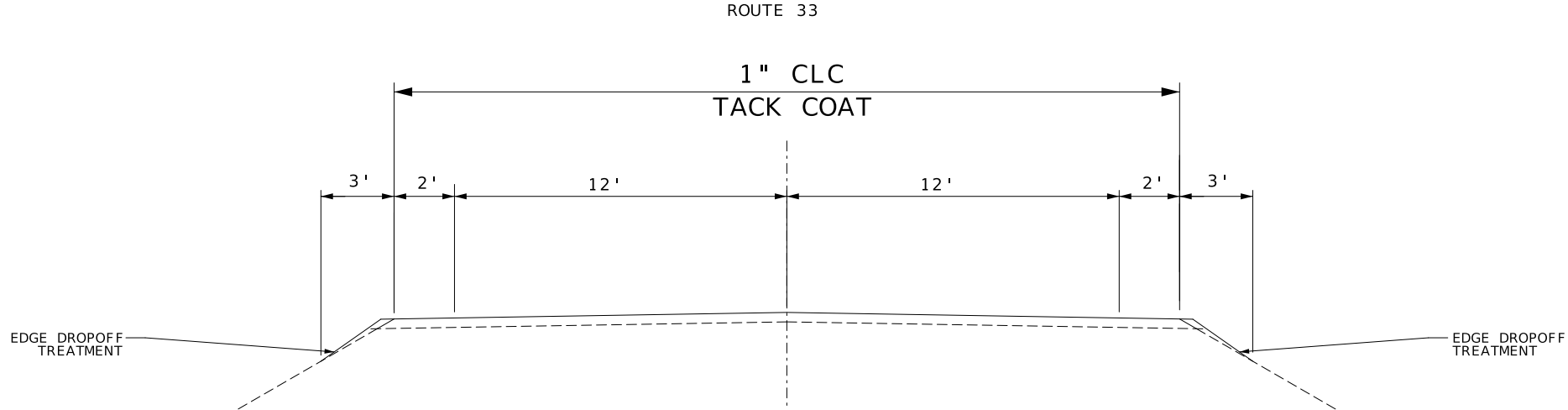
TOTAL CORRECTIONS	448.80 FEET
NET LENGTH OF PROJECT	66601.92 FEET
STATE LENGTH	12.614 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES
---	---------

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.



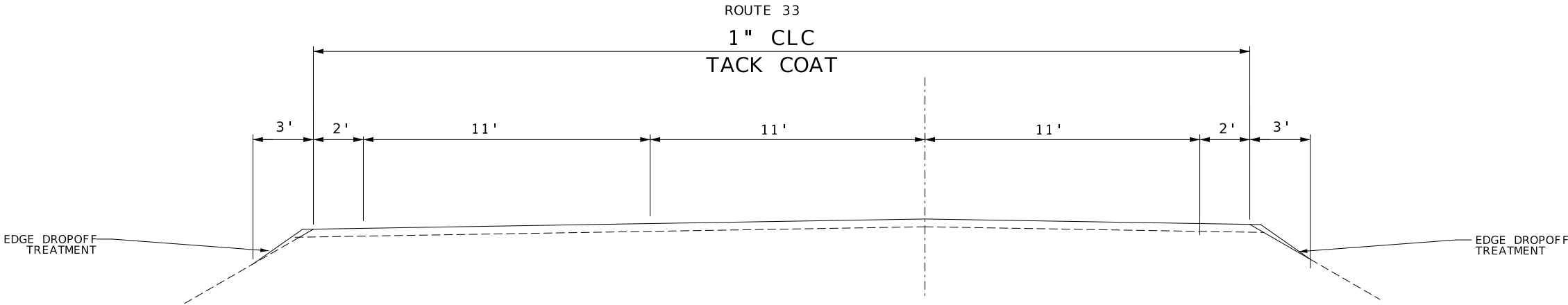
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SB LOG MILE 36.761 TO 38.203 BR. END
SB LOG MILE 38.243 BR. END TO 41.772
SB LOG MILE 41.872 TO 42.073 BR. END
SB LOG MILE 42.133 BR. END TO 43.773
SB LOG MILE 45.254 TO 45.353
SB LOG MILE 45.533 TO 45.633
SB LOG MILE 45.833 TO 46.033 BR. END
SB LOG MILE 46.073 BR. END TO 49.411

NOT TO SCALE

TURN LANE



SB LOG MILE 41.772 TO 41.872
SB LOG MILE 45.433 TO 45.533
SB LOG MILE 45.633 TO 45.833
SB LOG MILE 49.411 TO 49.471

TYPICAL SECTION
SHEET 1 OF 2



DATE PREPARED
8/11/2025

ROUTE	STATE
33	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
CLAY

JOB NO.
JKU0035

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

MoDOT

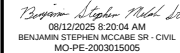


NOT TO SCALE



EDGE DROPOFF TREATMENT

TYPICAL SECTION
SHEET 2 OF 2



DATE PREPARED _____

8/11/202

ROUTE	ST
-------	----

33	M
----	---

DISTRICT	SHE
----------	-----

KC	
----	--

COUNTY

CLAY

JOB NO.
11112222

JKU0035

CONTRACT ID

PROJECT NO. _____

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 103–110

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

JEFFERSON CITY, MO 65102

ENTRANCE QUANTITIES								
LOG MILE	LOCATION SB	LENGTH FT	WIDTH FT	TYPE 5 AGGREGATE S.Y.	SURFACE LEVELING TON	MODIFIED COLDMILLING SY	TACK GAL	COMMENTS
36.781	MO 33 LT	22	10		1.36	24.4	1.95	
36.781	MO 33 RT	22	10		1.36	24.4	1.95	
36.802	MO 33 LT	32	10	35.56				
36.808	MO 33 RT	13	10		1.97	26.0	2.1	
36.822	MO 33 RT	13	10	14.44				
36.852	MO 33 RT	24	10		1.48	26.7	2.1	
36.892	MO 33 RT	24	10		1.48	26.7	2.1	
36.953	MO 33 LT	24	10		1.48	26.7	2.1	
36.953	MO 33 RT	24	10		1.48	26.7	2.1	
37.003	MO 33 LT	24	10		1.48	26.7	2.1	
37.003	MO 33 RT	24	10		1.48	26.7	2.1	
37.023	MO 33 RT	34	10	37.78				
37.042	MO 33 RT	26	10		1.60	28.9		
37.082	MO 33 RT	20	10		1.23	29.0	2.3	
37.092	MO 33 LT	84	50		25.90	58.0	4.6	
37.122	MO 33 LT	26	20		3.21	20.0	1.6	
37.221	MO 33 RT	16	10	17.78				
37.411	MO 33 RT	24	10	26.67				
37.533	MO 33 RT	15	10	16.67				
37.713	MO 33 RT	18	10		1.11	20.0	1.6	
37.733	MO 33 LT	50	24		7.40	42.0	13.3	
37.733	MO 33 RT	45	30		8.33	34.0	15.0	
37.823	MO 33 RT	20	10	22.22				
37.843	MO 33 LT	18	10	20.00				
37.893	MO 33 RT	24	10	26.67				
37.953	MO 33 RT	18	10	20.00				
38.023	MO 33 LT	16	10	17.78				
38.103	MO 33 LT					320.0		CONCRETE ENTRANCE
38.123	MO 33 LT	13	10	14.44				
38.263	MO 33 RT	32	10	35.56				
38.382	MO 33 RT	240	30		14.36	30.0	77.6	RT CC
38.557	MO 33 LT	18	10	20.00				
38.617	MO 33 RT					338.0		CONCRETE ENTRANCE
38.676	MO 33 RT	18	10	20.00				
38.736	MO 33 RT	15	10	16.67				
38.796	MO 33 LT	15	10		2.78	50.0		
38.836	MO 33 RT	18	10	20.00				
38.916	MO 33 RT					330.0		CONCRETE ENTRANCE
39.016	MO 33 RT	35	24	93.33				
39.086	MO 33 RT					303.0		CONCRETE ENTRANCE
39.296	MO 33 LT	25	10	27.78				
39.405	MO 33 RT	38	20		4.69	42.0	8.4	188TH ST
39.465	MO 33 LT	20	10	22.22				
39.485	MO 33 RT	27	10	30.00				
39.495	MO 33 LT	18	10	20.00				
39.635	MO 33 RT	30	10	33.33				
39.675	MO 33 RT	18	10	20.00				
39.715	MO 33 RT	25	10	27.78				
39.795	MO 33 LT					323.0		CONCRETE ENTRANCE
39.915	MO 33 LT	32	20		3.95	30.0	7.1	184TH ST
39.915	MO 33 RT	32	25		4.93	30.0	8.9	184TH ST
40.114	MO 33 LT	22	10	24.44				
40.114	MO 33 RT	18	10	20.00				
40.235	MO 33 LT	36	10	40.00				
40.355	MO 33 RT	14	10	15.56				
40.414	MO 33 LT	27	10	30.00				
40.474	MO 33 LT	30	20		3.70	22.0	6.7	180TH ST
40.474	MO 33 RT	27	20		3.30	22.0	6.0	180TH ST
40.574	MO 33 RT	20	10		1.23	22.0	1.8	
40.594	MO 33 LT	24	10		1.48	24.0	1.9	
40.674	MO 33 LT	27	10	30.00				
40.694	MO 33 RT	30	10	33.33				
40.773	MO 33 RT	18	10	20.00				
40.853	MO 33 LT	30	10		1.85	33.3	3.3	176TH ST
40.893	MO 33 RT	32	10	35.56				
40.922	MO 33 RT	18	10		1.11	20.0	2.0	
40.942	MO 33 RT	18	10		1.11	20.0	2.0	
41.013	MO 33 RT	24	10	26.67				
41.033	MO 33 LT	22	10	24.44				
41.052	MO 33 LT	22	10	24.44				
41.072	MO 33 RT	22	10	24.44				
SUBTOTAL		1		1005.6	106.8	2426.2	182.7	

ENTRANCE QUANTITIES								
LOG MILE	LOCATION SB	LENGTH FT	WIDTH FT	TYPE 5 AGGREGATE S.Y.	SURFACE LEVELING TON	MODIFIED COLDMILLING SY	TACK GAL	COMMENTS
41.092	MO 33 RT	22	10	24.44				
41.112	MO 33 RT	15	10	16.67				
41.172	MO 33 RT	36	10	40.00				
41.282	MO 33 LT	42	10	46.67				
41.292	MO 33 RT	54	10	60.00				
41.322	MO 33 RT	18	10	20.00				
41.332	MO 33 LT	18	10	20.00				
41.369	MO 33 RT	18	10	20.00				
41.372	MO 33 RT	18	10	20.00				
41.412	MO 33 LT	34	20		4.19	33.0	7.6	172ND ST
41.412	MO 33 RT	34	20		4.19	33.0	7.6	172ND ST
41.452	MO 33 RT	16	10	17.78				
41.472	MO 33 RT	18	10	20.00				
41.509	MO 33 RT	13	10	14.44				
41.512	MO 33 LT	18	10	20.00				
41.532	MO 33 RT	16	10	17.78				
41.572	MO 33 RT	27	10	30.00				
41.592	MO 33 RT	20	10	22.22				
41.622	MO 33 RT	18	10		1.11	20.0	2.0	
41.632	MO 33 LT	18	10	20.00				
41.652	MO 33 RT	34	20		4.19	28.0	7.6	170TH ST
41.772	MO 33 LT	50	36		11.10	45.0	20.0	PARK RD
41.793	MO 33 RT	18	10	20.00				
41.892	MO 33 RT	25	10		1.54	28.0	2.8	
42.002	MO 33 RT	30	10		1.85	33.3	3.3	
42.173	MO 33 LT	36	10	40.00				
42.213	MO 33 LT	65				140.0		CONCRETE ENTRANCE
42.213	MO 33 RT	85				140.0		CONCRETE ENTRANCE
42.313	MO 33 LT	36	15		3.33	60.0	6.0	
42.393	MO 33 RT	40	10	44.44				
42.413	MO 33 RT	55	25		8.14	48.0	14.7	
42.513	MO 33 LT	10	10	11.11				
42.553	MO 33 LT	55	35		11.90	40.0	21.4	
42.633	MO 33 LT	80	25		9.90	38.0	17.8	
42.673	MO 33 LT	40	25		4.93	30.0	8.9	
42.693	MO 33 RT	55	30		9.99	40.0	18.0	162ND ST
42.723	MO 33 LT	100				380.0		CONCRETE ENTRANCE
42.813	MO 33 RT	18	10	20.00				
42.971	MO 33 LT	50				357.0		CONCRETE ENTRANCE
43.031	MO 33 RT	32	10	35.56				
43.101	MO 33 RT	30	15		2.78	50.0	5.0	
43.151	MO 33 LT	50						CONCRETE ENTRANCE
43.151	MO 33 RT	75						CONCRETE ENTRANCE
43.171	MO 33 LT	30	10		3.24	33.0	3.3	
43.191	MO 33 RT	22	10	24.44				
43.271	MO 33 RT	54	10	60.00				
43.351	MO 33 LT	60						CONCRETE ENTRANCE
43.351	MO 33 RT	42	15		6.80	70.0	7.0	
43.432	MO 33 LT	13	10		1.40	14.0	1.4	
43.452	MO 33 LT	50	10	55.56				
43.483	MO 33 RT	30	10		3.24	33.3	3.3	
43.493	MO 33 LT	36	15		5.83	60.0	6.0	
43.503	MO 33 RT	40	10		4.32	44.4	4.4	
43.523	MO 33 LT	30	10		3.24	33.0	3.3	
43.533	MO 33 RT	16	10		1.73	18.0	1.8	
43.573	MO 33 RT	26	20		5.61	57.8	5.8	
43.613	MO 33 LT	34	20		6.48	67.0	6.7	LAWRENCE ST
43.613	MO 33 RT	30	20		7.34	76.0	7.6	LAWRENCE ST
43.618	MO 33 LT	36	10		3.89	40.0	4.0	
43.633	MO 33 LT	22	15	36.67				
43.673	MO 33 LT	25	20		5.40	55.0	5.6	
43.673	MO 33 RT	42	20		9.07	93.0	9.3	
43.693	MO 33 LT	120						CONCRETE ENTRANCE
43.713	MO 33 LT	26	15		4.21	44.0	4.3	MAJOR ST
43.713	MO 33 RT	20	10		2.59	27.0	2.7	MAJOR ST
SUBTOTAL		2		777.8	153.5	2308.8	219.2	

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

10/03/2025 8:28:44 AM

BENJAMIN STEPHEN MCCABE SR. - CIVIL

MO-PE-2003015005

DATE PREPARED
10/2/2025

ROUTE
33

STATE
MO

DISTRICT
KC

SHEET NO.
3

COUNTY
CLAY

JOB NO.
JKU0035

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)

SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN	DESCRIPTION	ITEM	TOTAL	EFFECTIVE: 07-01-2025	
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	IN.		SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	NUMBER	QTY		DESCRIPTION			
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16.00				END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50	2	9.00				PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75	10	87.50				PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50	10	15.00				PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	2	12.00				WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
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)	6161020		CHANNELIZER (DRUM-LIKE)	
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022	210	CHANNELIZER (CONE)	
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025		CHANNELIZER (TRIM-LINE)	
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)	
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030		TYPE 3 MOVEABLE BARRICADE	
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE	
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48.00				SPEED LIMIT XX	6161040		FLASHING ARROW PANEL	
WO3-4	48X48	16.00	6	96.00				BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT	
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER	
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096	4*	CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT			COMMISSION FURNISHED/RETAINED	
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE			INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00	2	24.00				KEEP RIGHT (HORIZONTAL ARROW)	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED	
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)			TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)			TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED	
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED	
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER	
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT	
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED	6208064A		TEMPORARY RAISED PAVEMENT MARKER	
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD	9029400		TEMPORARY TRAFFIC SIGNALS	
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8-11	48X48	16.00	6	96.00				UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC				
WO8-12	48X48	16.00	6	96.00				NO CENTER LINE	CONST-3X	56X12	4.67						FINE SIGN				
WO8-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS												
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE				
WO8-17L	48X48	16.00	2	32.00				SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00	2	64.00				POINT OF PRESENCE				
WO8-17R	48X48	16.00	2	32.00				SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE				
WO8-17P	30X24	5.00	2	10.00				SHOULDER DROP-OFF (PLAQUE)													
WO10-1	42RND.	9.62						RAILROAD CROSSING													
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)													
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)													
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)													
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)													
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD													
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD													
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)													
WO16-2	30X24	5.00						XXX FEET (PLAQUE)													
WO16-3	30X24	5.00						X MILE (PLAQUE)													
WO20-1	48X48	16.00	28	448.00				ROAD/BRIDGE/RAMP WORK AHEAD													
WO20-2	48X48	16.00						DETOUR AHEAD													
WO20-3	48X48	16.00						ROAD CLOSED AHEAD													
WO20-4	48X48	16.00	8	128.00				ONE LANE ROAD AHEAD	616-10.05	TOTAL											
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	CONSTRUCTION SIGNS			1422									
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10.10				TOTAL								
WO20-6a	48X48	16.00	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED	RELOCATED SIGNS												
WO20-7a	48X48	16.00	8	128.00				FLAGGER (SYMBOL)													
WO21-2	36X36	9.00						FRESH OIL													
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD													
WO22-1	48X48	16.00						BLASTING ZONE AHEAD													
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE													
WO22-3	42X36	10.50						END BLASTING ZONE													
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)													

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE, SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe, Sr.

10/03/2025 8:30:55 AM

BENJAMIN STEPHEN MCCABE, SR. - CIVIL

MO-PE-2003015005

DATE PREPARED

10/2/2025

ROUTE

33

STATE

MO

DISTRICT

KC

SHEET NO.

3

COUNTY

CLAY

JOB NO.

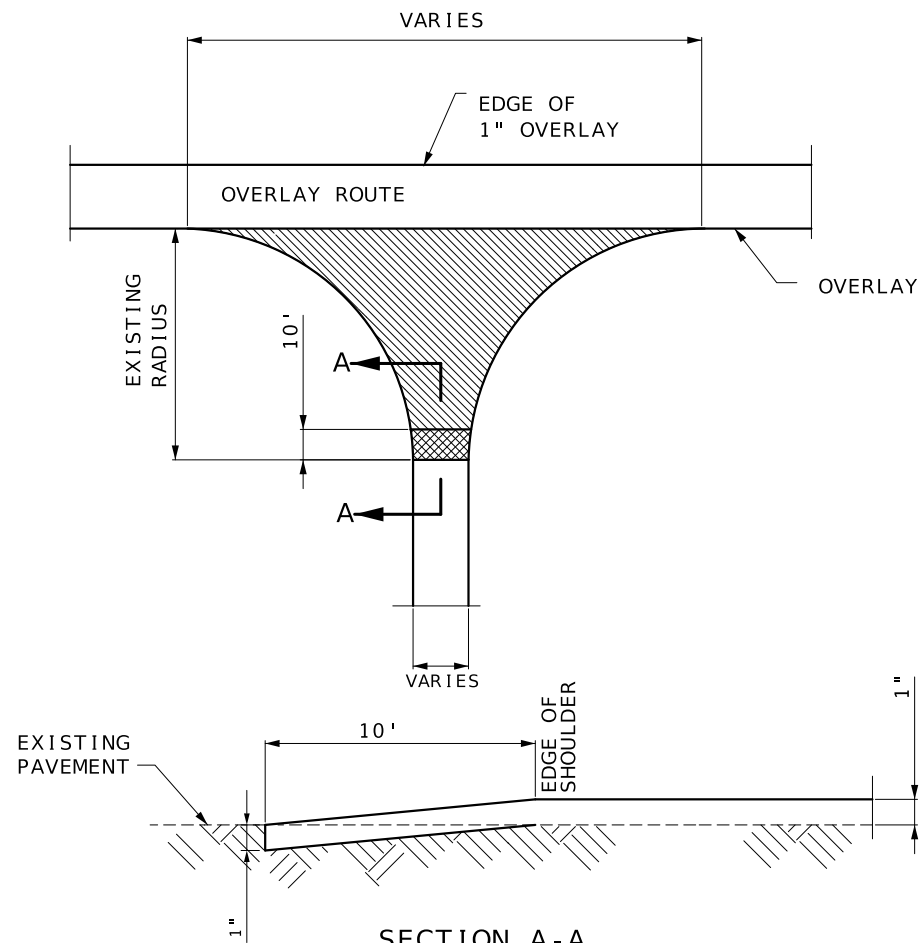
JKU0035

CONTRACT ID.

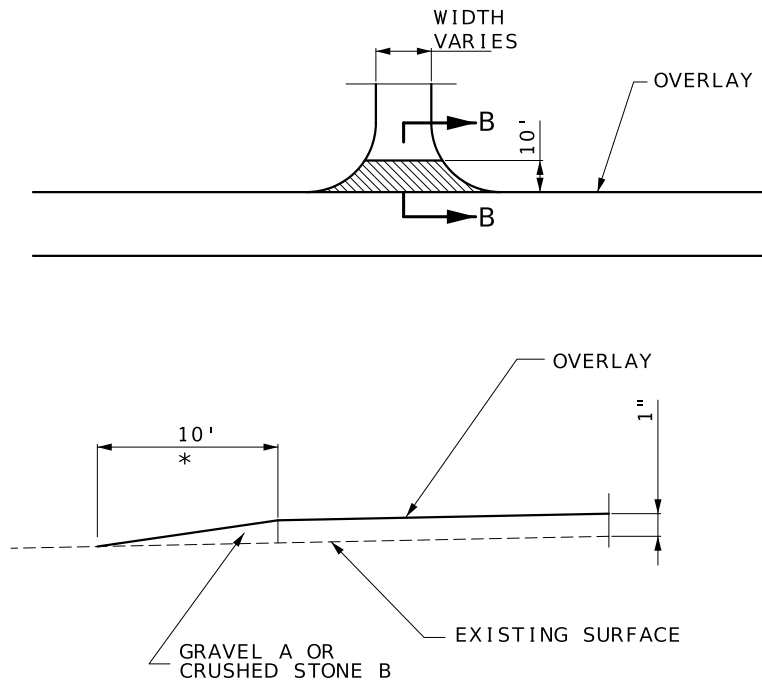
PROJECT NO.

BRIDGE NO.

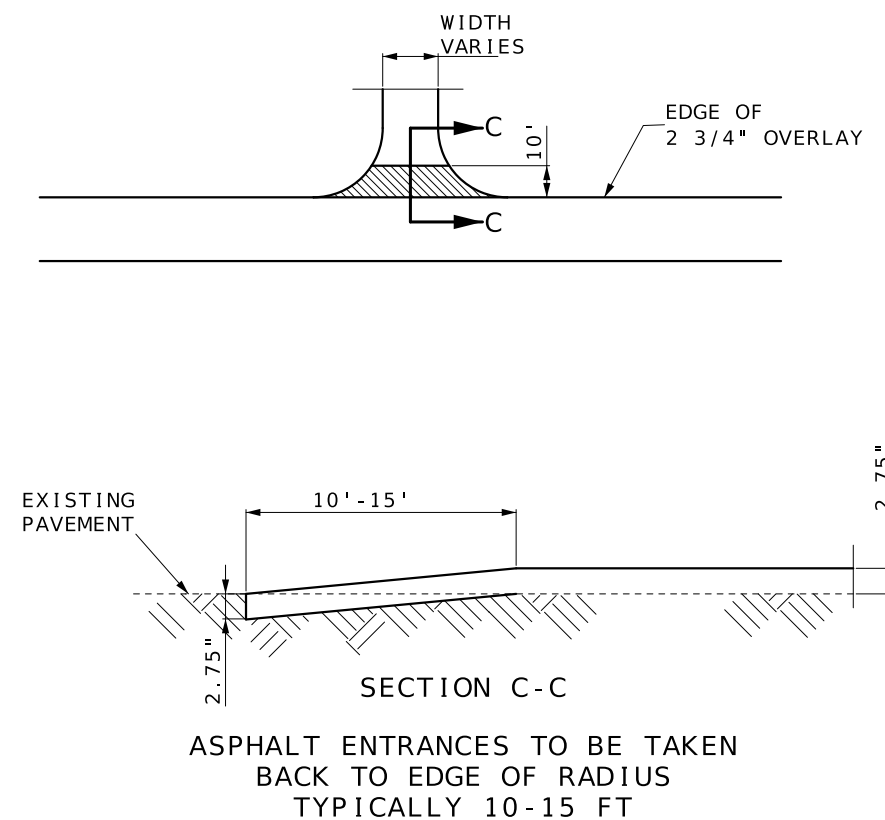
DESCRIPTION



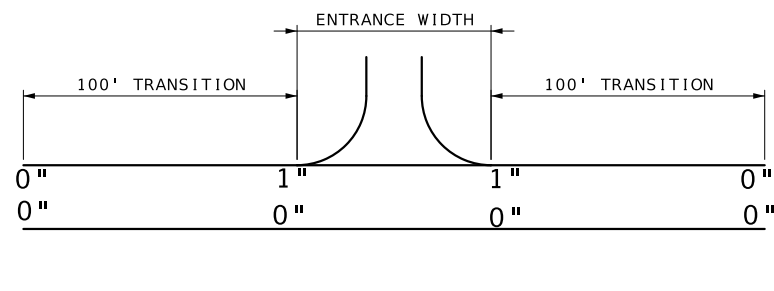
SECTION A-A
TYPICAL STATE ROUTE JUNCTION
* ASPHALT ENTRANCES WITH A RADIUS OF 20 FT OR GREATER SHOULD BE TREATED AS ABOVE



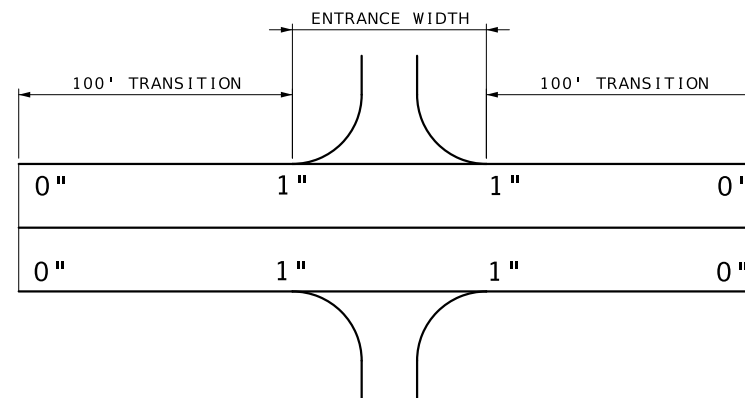
SECTION B-B
TYPICAL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



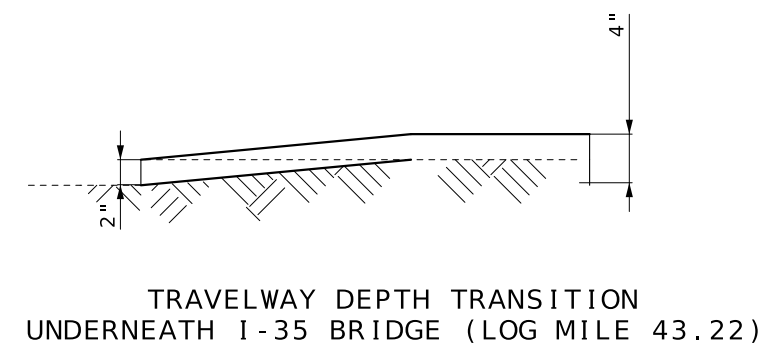
SECTION C-C
ASPHALT ENTRANCES TO BE TAKEN
BACK TO EDGE OF RADIUS
TYPICALLY 10-15 FT



TYPICAL SINGLE CONCRETE ENTRANCE
IN THE 1" OVERLAY SECTIONS



TYPICAL DUAL CONCRETE ENTRANCE
IN THE 1" OVERLAY SECTION



BENJAMIN STEPHEN MCCABE
PROFESSIONAL ENGINEER
08/12/2025 8:15:46 AM
BENJAMIN STEPHEN MCCABE SR., CIVIL
MO-PE-2003015005

DATE PREPARED 8/11/2025	
ROUTE 33	STATE MO
DISTRICT KC	SHEET NO. 4
COUNTY CLAY	
JOB NO. JKU0035	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Traffic Control Legend,
Sign Spacing, Device Spacing, Channelizing Taper Lengths
And Recommended Maximum Speed Reductions

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA - 1000' SB - 1500' SC - 2640'

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
<40	160'	168'	176'	BARRIER HEIGHT TRANSITION
>40	160'	168'	176'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS						
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (L) (3)			MINIMUM SHOULDER TAPER LENGTH (T1) BASED ON 10' SHOULDER	BUFFER LENGTH FT	MAXIMUM CHANNELIZER SPACING
	10'	11'	12'			THROUGH TAPER THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35' 40'
40-45	450'	495'	540'	150'	400'	40' 80'
50-55	550'	605'	660'	185'	560'	50' 80'
60-70	700'	770'	840'	235'	840'	60' 120'

EPG TABLE 616.12 RECOMMENDED MAXIMUM SPEED REDUCTIONS	
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.	

LEGEND NOTE:
THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

TAPER LENGTH (L)
L = W X P FOR 40 MPH OR MORE
L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS
L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

DETAILS NOTES:

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

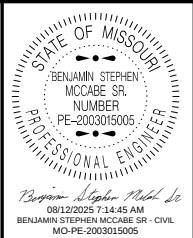
THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

GENERAL NOTES:

- 1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
- 2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- 3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- 4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- 5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.
- 6. SIGN SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FEILD CONDITIONS.

SPACING
TEMPORARY
TRAFFIC CONTROL
SHEET 1 OF 8



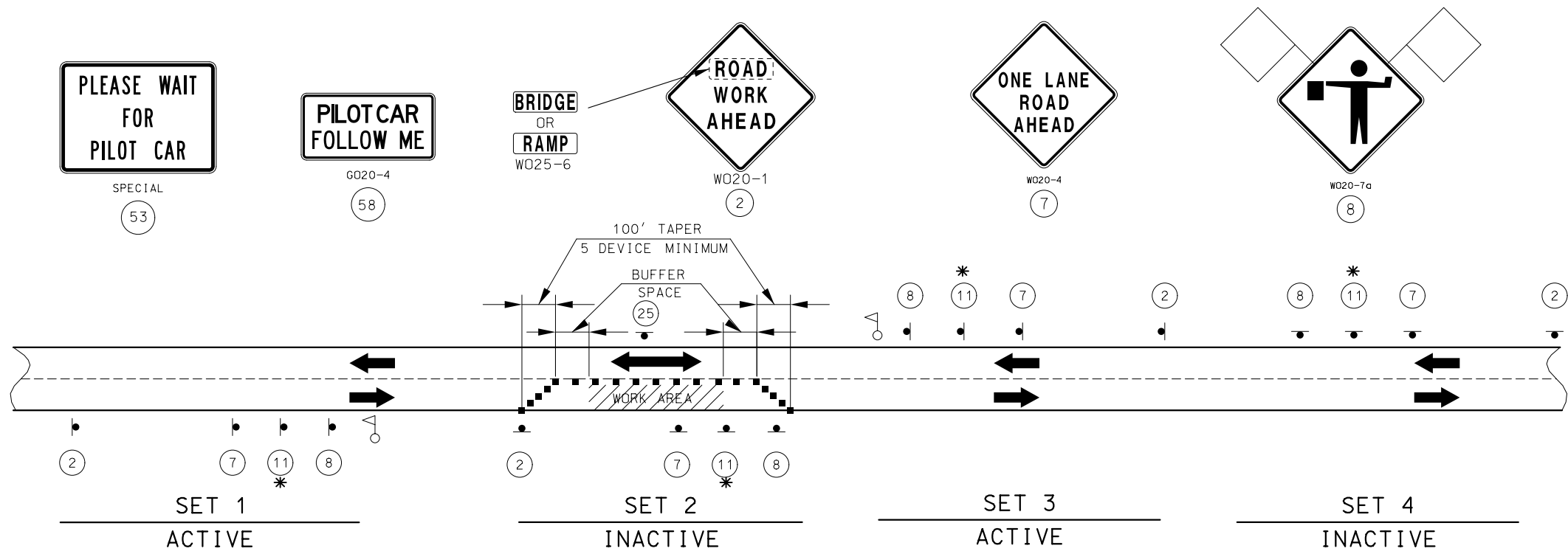
DATE PREPARED 8/11/2025	
ROUTE 33	STATE MO
DISTRICT KC	SHEET NO. 5
COUNTY CLAY	
JOB NO. JKU0035	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED (P) MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MINIMUM TAPER SHOULDER (T1)	MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT		TAPERS	BUFFER/WORK AREA
0-35	205 FT	225 FT	245 FT	70	35 FT	40 FT
40-45	450 FT	495 FT	540 FT	150	40 FT	80 FT
50-55	550 FT	605 FT	660 FT	185	50 FT	80 FT
60-70	700 FT	770 FT	840 FT	235	60 FT	120 FT

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
SPEED (P) MPH	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT **	

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS

LONGITUDINAL BUFFER SPACE	
SPEED (P) MPH	BUFFER SPACE (FEET)
0-35	280
40-45	400
50-55	560
60-70	840

TAPER LENGTH (L)

L = W X P FOR 40 MPH OR MORE

L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

- GENERAL NOTES:
- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
 - EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
 - NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
 - CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
 - LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE. ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS. REFER TO EPG 616.6.2.2 FLAGS AND ADVANCED WARNING RAIL SYSTEM

FLAGGER

CHANNELIZERS

NOTES:

- SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- DAYLIGHT FLAGGING OPERATIONS ONLY.
- CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.
- IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 "RUMBLE STRIPS".



* NOTE: THIS SIGN IS INSERTED BETWEEN SIGNS 7 & 8 WITH THE SPACING OF 1/2 THE STANDARD SPACING WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED.

STATE OF MISSOURI
BENJAMIN STEPHEN MCCABE SR.
NUMBER
PE-2003015005
PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.
08/12/2025 7:17:22 AM
BENJAMIN STEPHEN MCCABE SR - CIVIL
MO-PE-2003015005

DATE PREPARED
8/11/2025

ROUTE
33

STATE
MO

DISTRICT
KC

SHEET NO.
8

COUNTY
CLAY

JOB NO.
JKU0035

CONTRACT ID.

PROJECT NO.

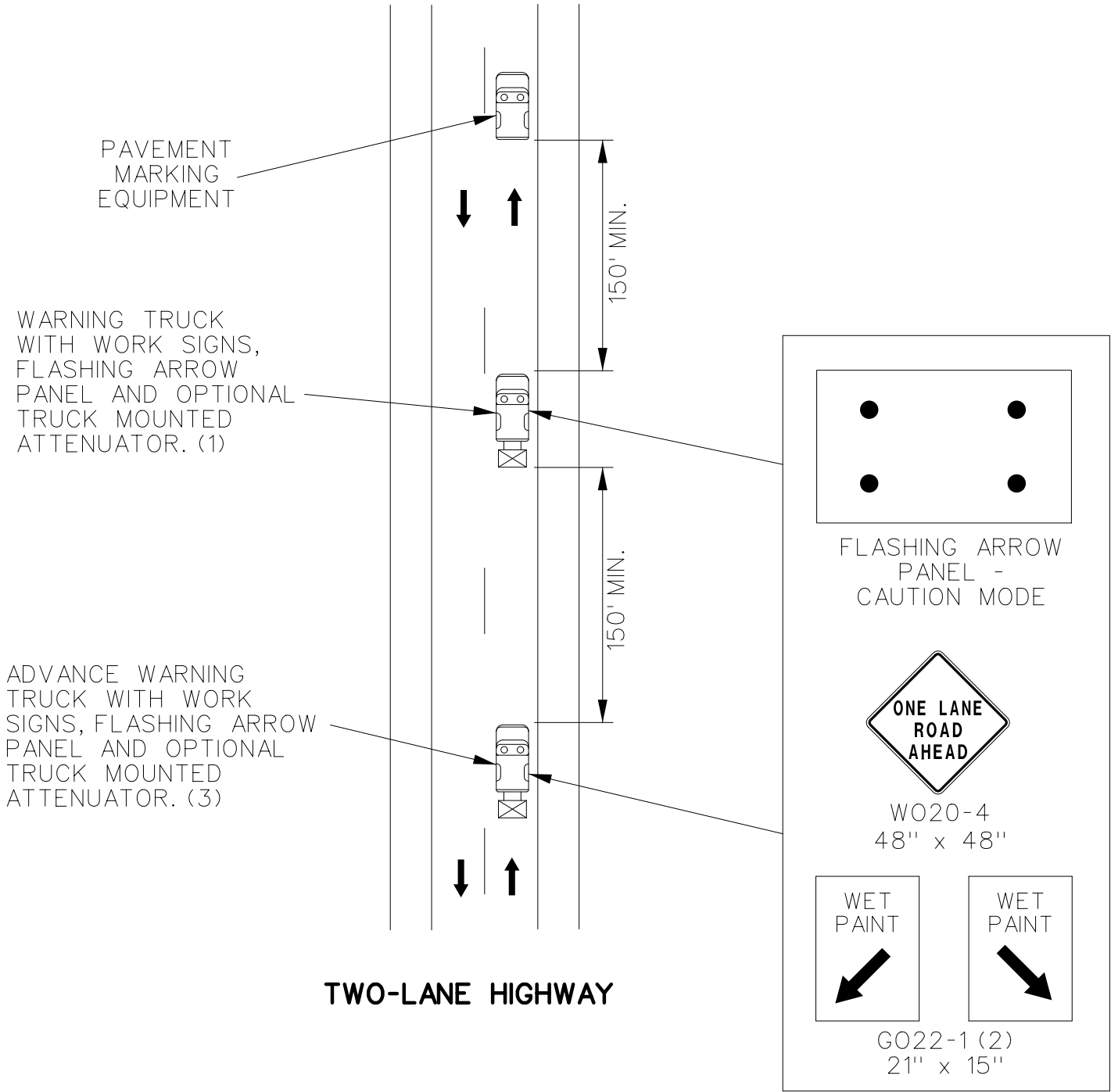
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



MOVING OPERATION ON HIGHWAY
OPEN TO TRAFFIC

- NOTES:
- ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROFLECTIVE SHEETING.
- 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, 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.

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

08/12/2025 7:18:04 AM

BENJAMIN STEPHEN MCCABE SR - CIVIL

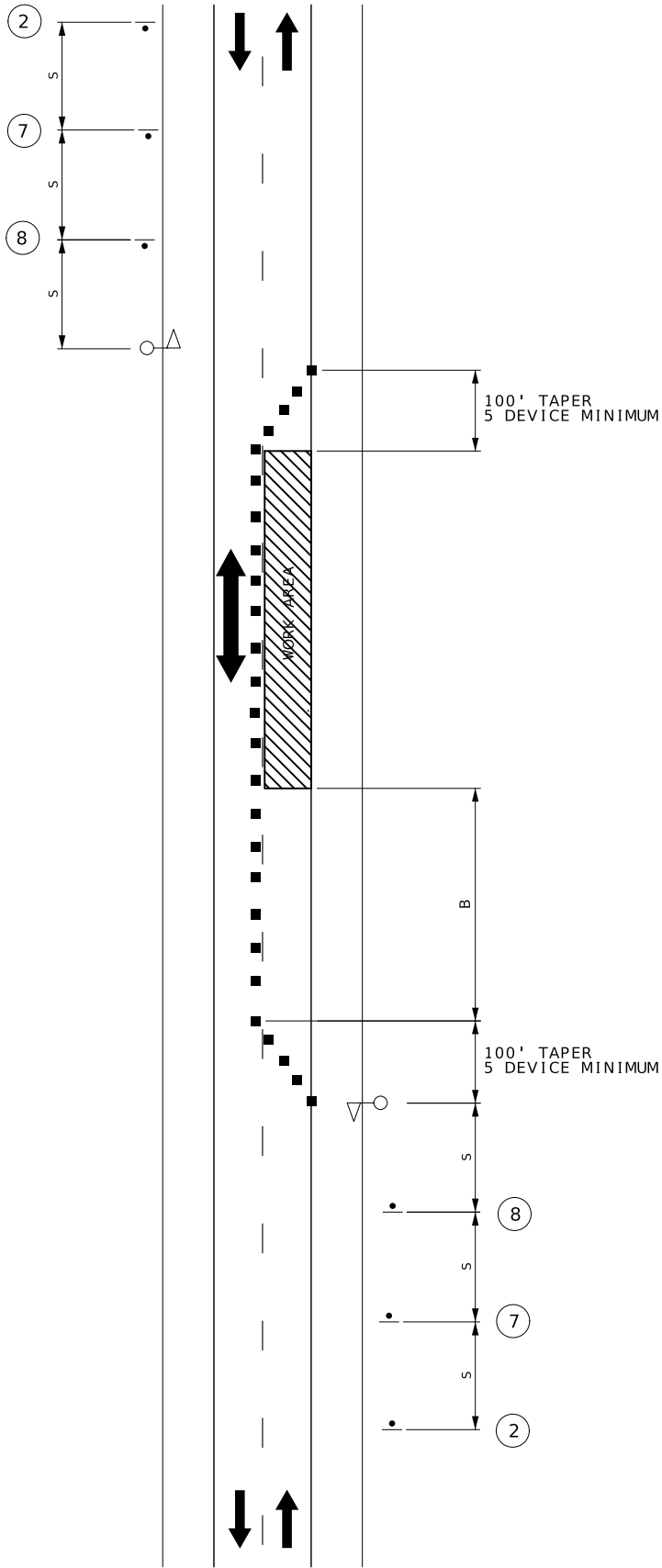
MO-PE-2003015005

DATE PREPARED	
8/11/2025	
ROUTE	STATE
33	MO
DISTRICT	SHEET NO.
KC	9
COUNTY	
CLAY	
JOB NO.	
JKU0035	
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)



LANE CLOSURE
ON TWO-LANE ROAD
USING FLAGGERS



WO20-1

2



WO20-4

7



WO20-7a

8

NOT TO SCALE

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.

NUMBER

PE-2003015005

PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.

09/12/2025 7:18:46 AM

BENJAMIN STEPHEN MCCABE SR - CIVIL

MO-PE-2003015005

DATE PREPARED

8/11/2025

ROUTE

33

DISTRICT

KC

STATE

MO

SHEET NO.

10

COUNTY

CLAY

JOB NO.

JKU0035

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

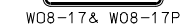
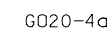
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS DIRECTED BY THE ENGINEER.



NOTES:

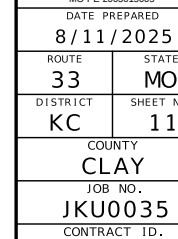
SIGN 35 AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35 , THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH
STANDARD PLAN 616.10 AND 903.03.

TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE END OF EACH DAY.

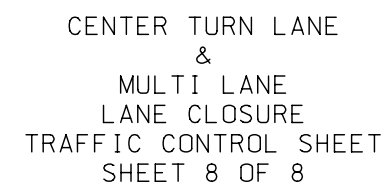
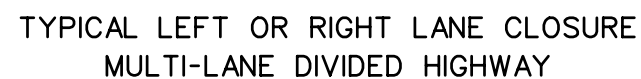
NO CENTER STRIPE
/UNEVEN LANES
TRAFFIC CONTROL
SHEET 7 OF 8



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

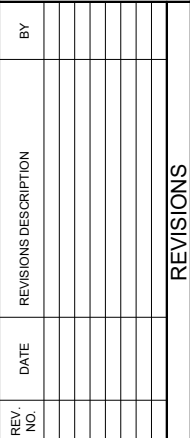
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO. 65102

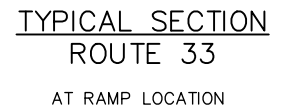
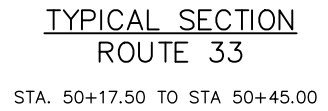


DATE PREPARED 8/11/2025			
ROUTE 33	STATE MO		
DISTRICT KC	SHEET NO. 12		
COUNTY CLAY			
JOB NO. JKU0035			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
DATE	DESCRIPTION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
		105 WEST CAPITOL JEFFERSON CITY, MO 65102	

olsson



SHEET
2 of 5

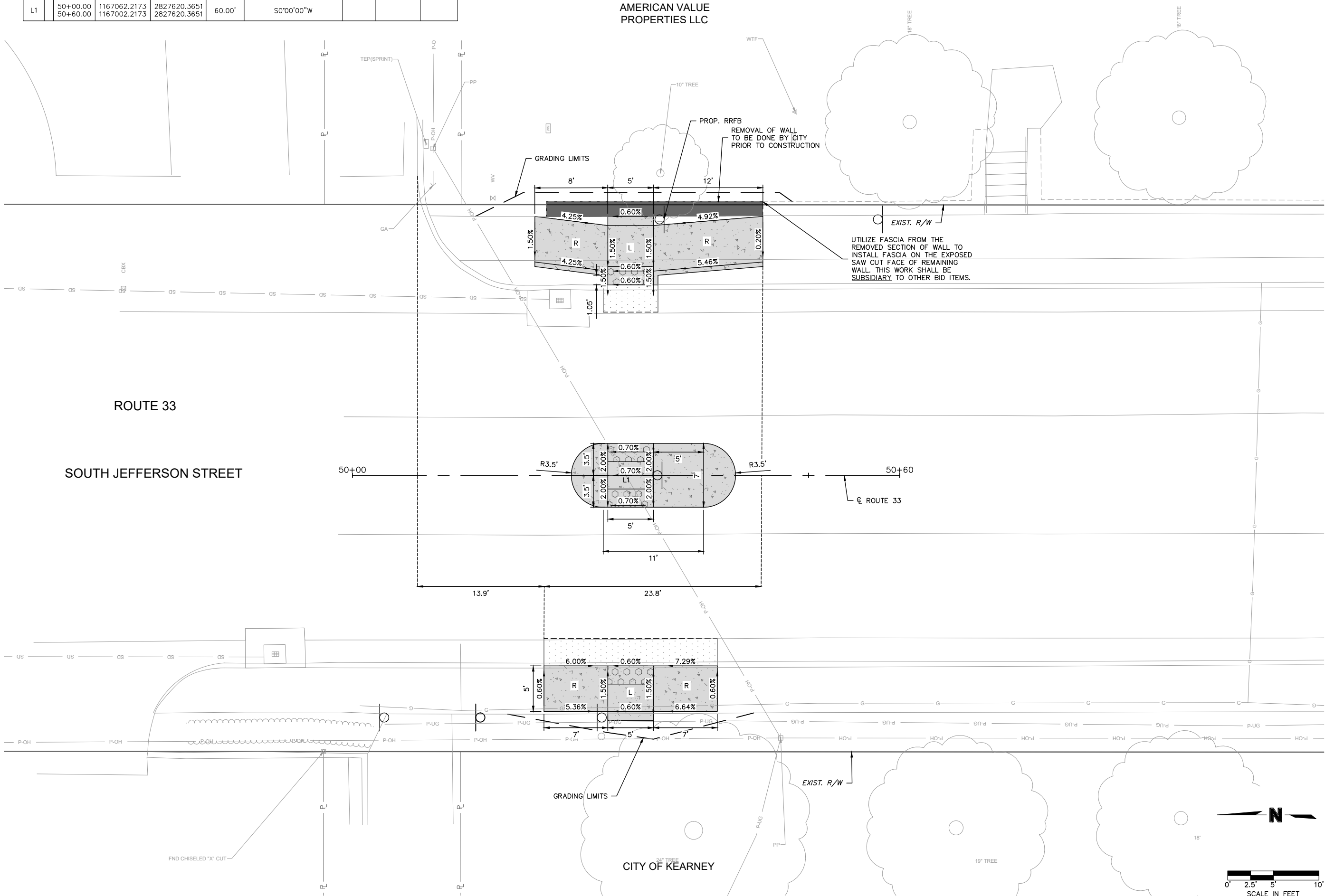


* THE CONTRACTOR SHALL REFER TO MODOT EPG TYPICAL APPLICATIONS FOR TRAFFIC CONTROL CONDITIONS, SPECIFICALLY TA-10 AND TA-30, WHICH OUTLINE THE STANDARD SET-UPS ASSOCIATED WITH THIS PROJECT.

DWG: F:\2023\07501-08000\023-07571-A\40-Design\AutoCAD\Final Plans\Sheets\T_TYP_A23-07571.dwg
DATE: Aug 07, 2025 1:43pm XREFS: T_PTBULK2_A2307571 USER: khllman

DWG: F:\2023\07501-08000\023-07571-A\40-Design\AutoCAD\Final Plans\Sheets\T_RPP2_A23-07571(PLAN).dwg
DATE: Aug 07, 2025 1:44pm
XREFS: V_XTOPO_02307571 T_PPATT_02307571 T_PBASE_02307571 T_PPAR_02307571 T_PBLK2_A2307571
USER: khilman
V_XBNDY_02307571
V_XTOPO_02307571_19th
T_PBLK2_A2307571

ROUTE 33									
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS	
L1	50+00.00 50+60.00	1167062.2173 1167002.2173	2827620.3651 2827620.3651	60.00'	S0°00'00"W				



olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4760
TEL 913.381.1170
www.olson.com

STATE OF MISSOURI
BRYAN R. BRYAN
PE-201001040
08-07-2025
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

REVISIONS

2025

SIDEWALK RAMP LAYOUT

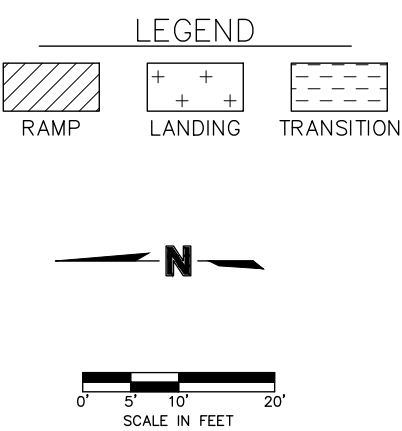
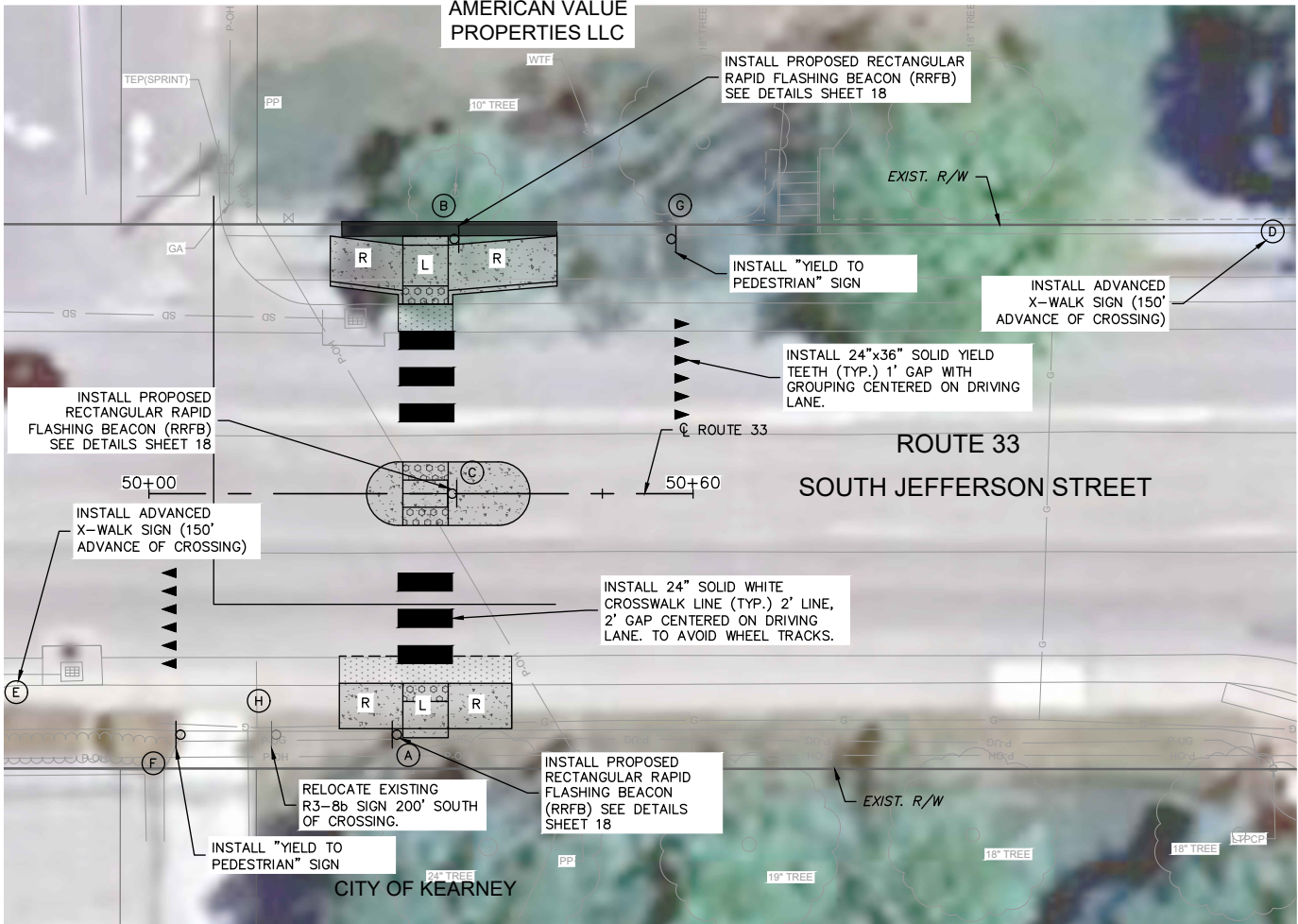
MODOT
LIONS PARK CROSSING

KEARNEY, MISSOURI

drawn by: KDH
checked by: BAB
approved by: BAB
QA/QC by:
project no.: 023-07571A
drawing no.: T_RPP2_A23-07571(PLAN)
date: 8/7/2025

SHEET

3 of 5

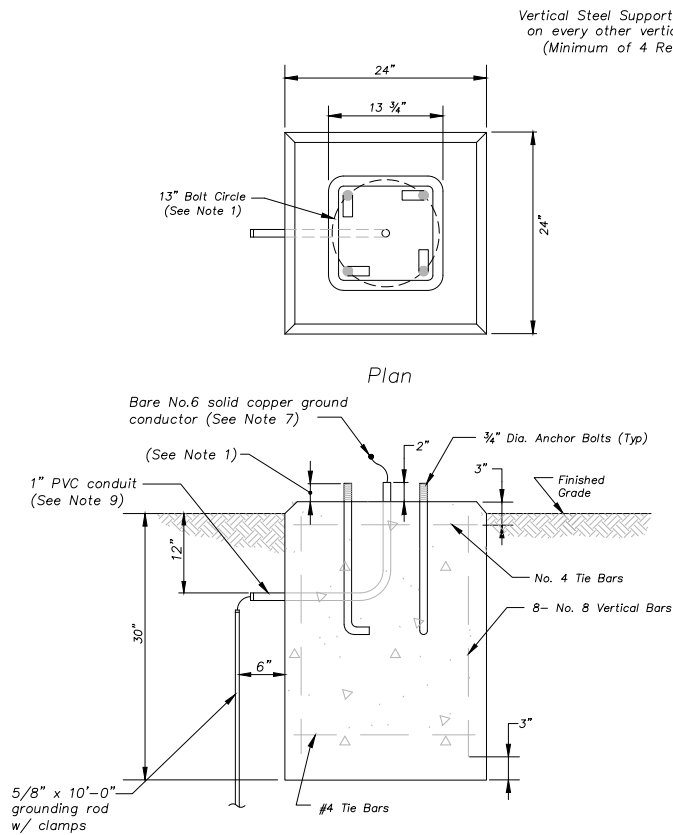


PAVEMENT MARKING					
STA.	STA.	LOCATION	24"		REMARKS
			WHITE	SOLID WHITE	
			MIDBLOCKS	YIELD LINE TRIANGLE	
			(LF.)	(EA.)	
50+00	50+60	Route 33	6	12	
SUB TOTAL			36	12	
TOTAL			36	12	

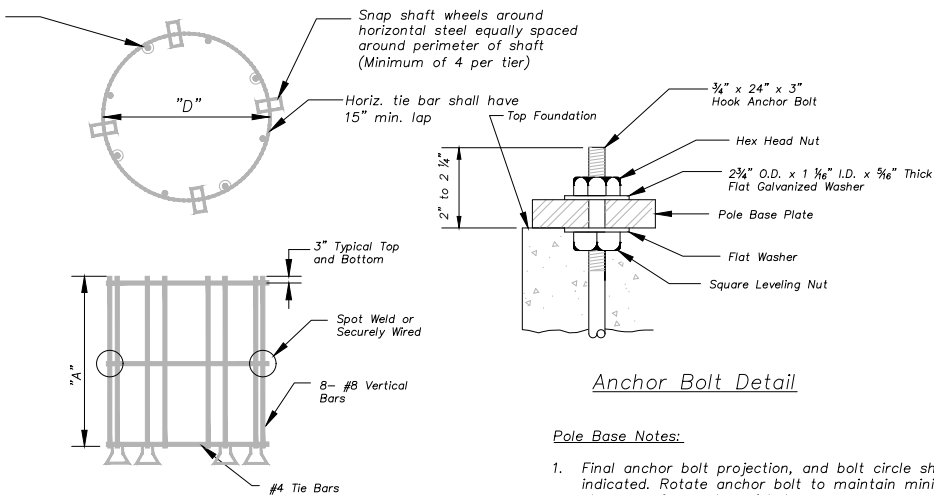
SIGNS					PERFORATED SQUARE STEEL TUBE POST						BREAKWAY ASSEMBLY ITEM NO. 9031241	REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	POST NO. 1	POST NO. 2	2IN TOTAL ITEM NO. 9031270A	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS			
									DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285		
E	ASSEMBLY			ROUTE 33	16		16		1	EA		
F	36"X36"			ROUTE 33	16		16		1			
H	EX.			ROUTE 33	16		16		1			Remove & Reset On New Post
A	ASSEMBLY			ROUTE 33								*W11-2 and W16-7P sign post included with RRFB Assembly shall be subsidiary to the RRFB as stated in the RECTANGULAR RAPID FLASHING BEACONS JSP.
B	ASSEMBLY			ROUTE 33								
C	ASSEMBLY			ROUTE 33								
G	36"X36"			ROUTE 33	16		16		1			
D	ASSEMBLY			ROUTE 33	16		16		1			
SUBTOTAL								80		5		
TOTAL								80		5		

STANDARD SIGN ASSEMBLIES						
SIGN NO.	STATION	LOCATION	SH			
			SH	SH	SH	SH
			36"X36"	24"X12"	36"X36"	21"X15"
			W11-2	W16-9P	R1-5	W16-7P
E	ASSEMBLY	See Plans	1	1		
F	36"X36"	See Plans			1	
H	EX.	See Plans				
A	ASSEMBLY	See Plans	1			1
B	ASSEMBLY	See Plans	1			1
C	ASSEMBLY	See Plans	2			2
G	36"X36"	See Plans			1	
D	ASSEMBLY	See Plans	1	1		
TOTAL			6	2	2	4

SIGN SUMMARY					
STANDARD SIGN OR	SIGN	NO.	SIZE, TYPE & SQUARE FEET		
SPECIAL SIGN NO.	DETAIL	EACH	SIZE	FLAT SHEET	STRUCTURAL
	SHEET NO.			SH	ST
				ITEM NO.	ITEM NO.
				9035004A	9035011A
R1-5	STD.	2	36"X36"	18.0	
W11-2	STD.	6	36"X36"	54.0	
W16-7P	STD.	4	21"X15"	8.8	
W16-9P	STD.	2	24"X12"	4.0	
SUBTOTAL				84.8	
TOTAL				85	



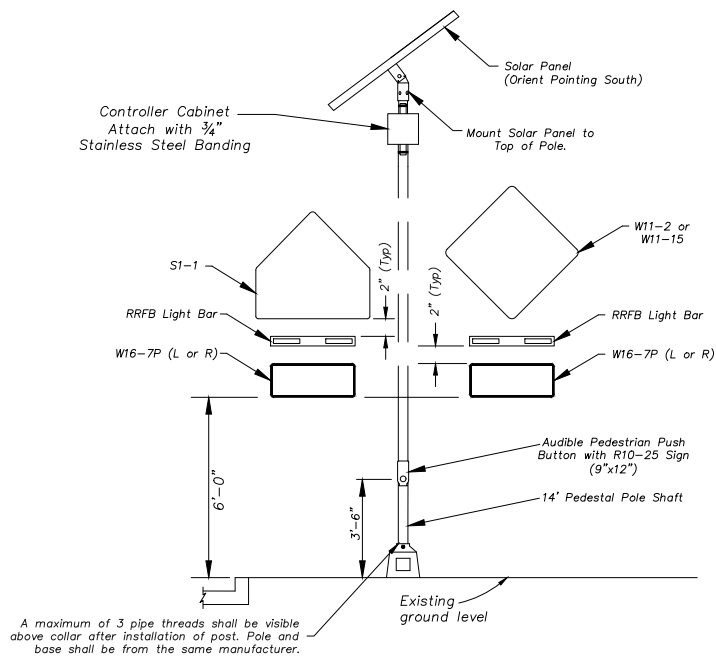
Pedestal Pole Base



Anchor Bolt Detail

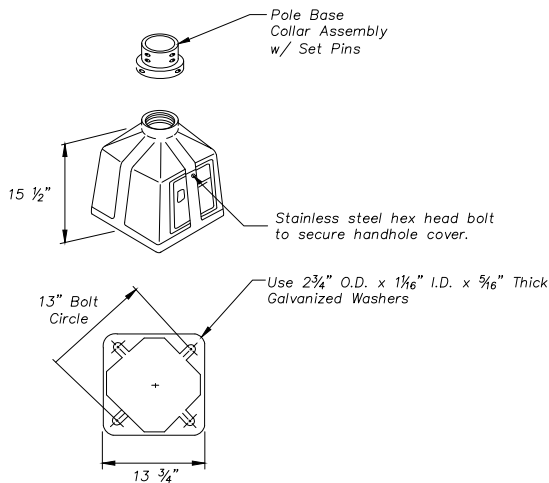
Pole Base Notes:

1. Final anchor bolt projection, and bolt circle shall be as indicated. Rotate anchor bolt to maintain minimum clearance from edge of hole.
2. All anchor bolts for all the new pole bases shall be rigidly installed before concrete is placed. All anchor bolt threads and nut surfaces shall be lubricated prior to tightening with stick wax or approved alternative. Anchor bolts shall be spaced by means of a factory certified template or drawing, the center of which shall coincide with the center of the base.
3. All concrete pole bases shall be consolidated by an internal type vibrator.
4. Final 6" of concrete foundation (pole cap) shall be formed square. The cap shall be formed and poured after the pole is plumb.
5. All concrete used in this work shall meet the requirements of the Overland Park Municipal Code and shall be KCMMB5K concrete ($f'_c = 5,000$ psi). Poles shall not be erected until concrete has reached 3,500 psi, or seven days in lieu of concrete tests.
6. Reinforcing steel shall be ASTM A615 GR60 with a 60 ksi yield strength. Maintain 3" minimum clearance from reinforcing steel to edge of hole or form.
7. Bare No. 6 solid copper ground conductor shall be connected from internal pole grounding nut, with a ring terminal, to the clamp on ground rod.
8. PVC conduit elbows in concrete foundations, ground rods, and ground cabling shall be considered subsidiary to other items.
9. All concrete surfaces should be brushed and sealed with curing compound.



Aluminum Signal Pedestal Pole with Rectangular
Rapid Flashing Beacon (RRFB)

(For Audible Pedestrian Push Buttons)



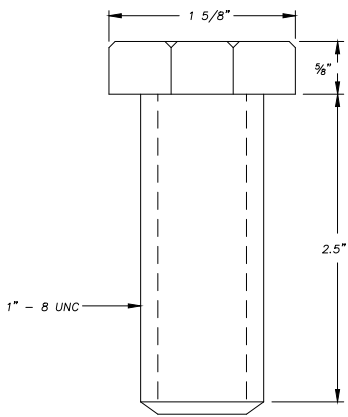
Pedestal Pole Base Detail

POLE MOUNTED RRFB QUANTITY TABLE (1)(2)						
	LOCATION	STREET	DIRECTIONAL		*SCREW-IN FOUNDATION	*CONCRETE FOUNDATION
			UNI	BI		
	A	S JEFFERSON ST	1			1
	B	S JEFFERSON ST	1			1
	C	S JEFFERSON ST		1		1
TOTAL						

***FOR INFORMATION ONLY**

Bill of Material Notes:

1. Unless otherwise noted, the installation of Pole Mounted RRFB units shall be bid per Each for all necessary equipment including RRFB, control unit, controller cabinet, solar panel, 14' pedestal pole and base, foundation.
2. The RRFB cabinet shall be ordered with the audible pedestrian push button DC control unit pre-mounted.
3. Unless otherwise noted, the installation of Post mounted RRFB units shall be bid per Each for all necessary equipment including RRFB, solar engine with combined solar panel energy management system, batteries, sign post, anchor and sleeve.
4. Signs will be included in sign quantities.



Hex Head Bolt