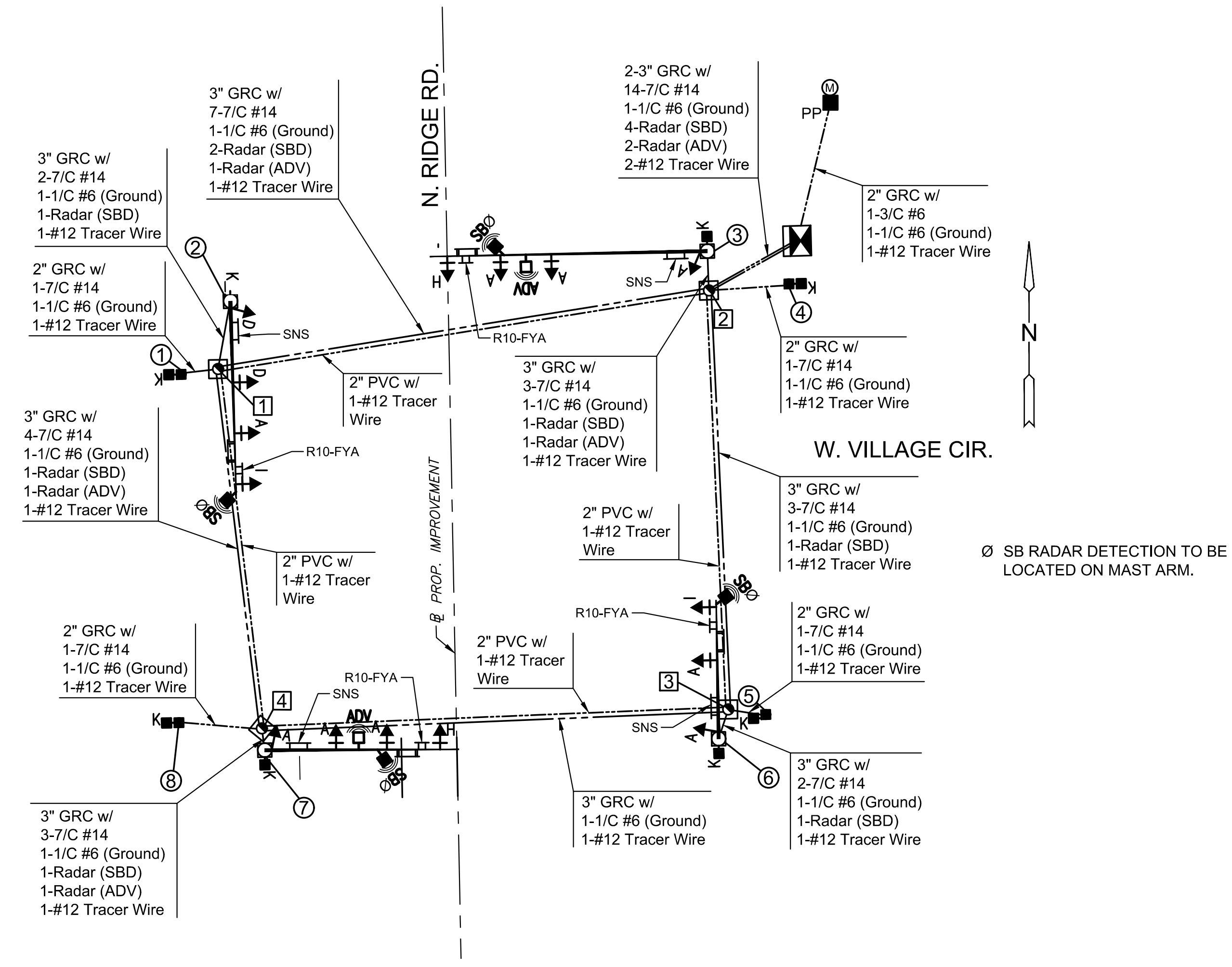
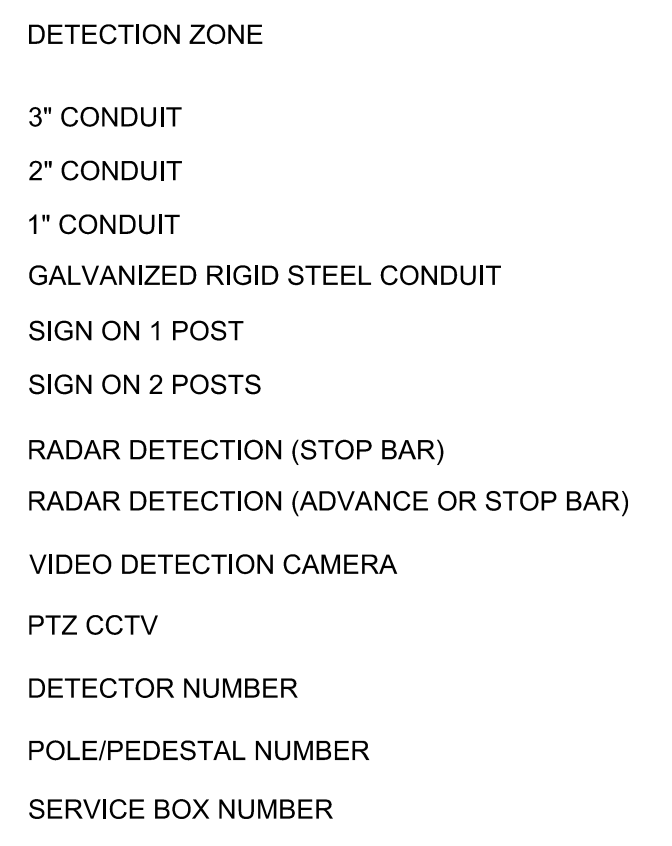
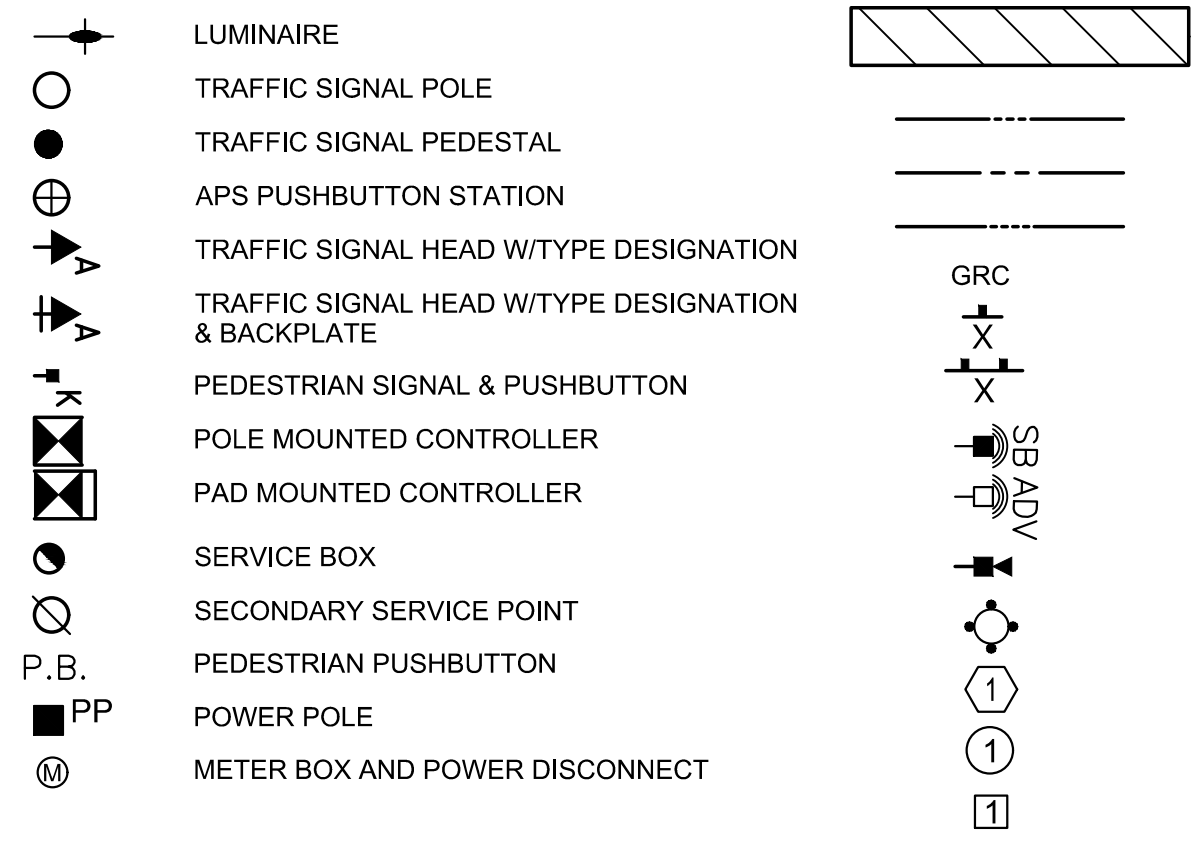


J:\PROJECTS\2019\1010483_COW_RIDGE AND VILLAGE TRAFFIC SIGNAL_190483_CAD\SHOTS\6 CIVIL\TRAFFIC SIGNAL_190483-05-010.DWG
 PLOTTED: Wednesday, August 10, 2022 @ 01:00PM
 WICHITA, KS • 316-684-9600



DETECTOR SUMMARY

DETECTOR NUMBER	DETECTION ZONE SIZE	STOP BAR DETECTION	ADVANCED DETECTION	# TIMING (SEC)		MODE		PHASE CALLED	DISTANCE FROM STOP BAR
				TOTAL STRETCH + EXTENSION	DELAY	PRESENCE	PULSE		
1	6' x 50'	X		2.5	0	X		6	5'
2a, 2b	6' x 50'	X		2.5	0	X		6	5'
3	6' x 50'	X		2.5	0	X		7	5'
4a, 4b	6' x 50'	X		3	0	X		4	5'
5a, 5b	6' x 6'		X	3	0		X	4	92'
6a, 6b	6' x 6'		X	3	0		X	4	260'
7	6' x 50'	X		2.5	0	X		2	5'
8	6' x 50'	X		2.5	0	X		2	5'
9	6' x 50'	X		2.5	0	X		3	5'
10a, 10b	6' x 50'	X		3	0	X		8	5'
11a, 11b	6' x 6'		X	3	0		X	8	92'
12a, 12b	6' x 6'		X	3	0		X	8	260'

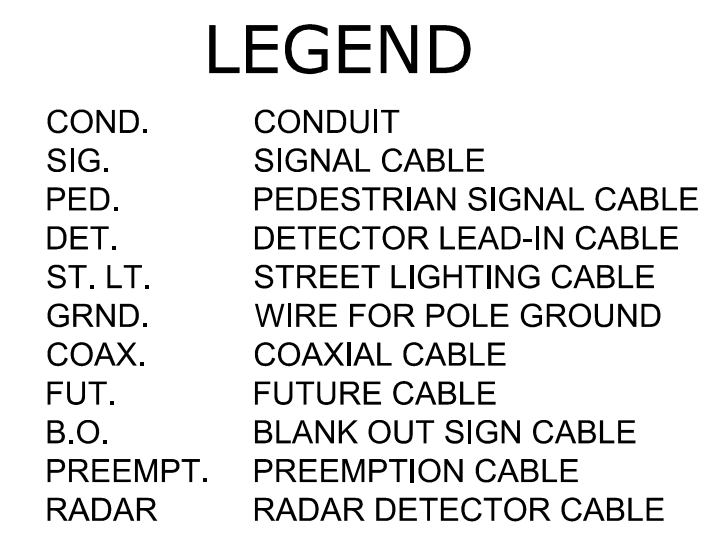
TIMINGS SHOWN IN DETECTOR SUMMARY CHART INCLUDE THE TOTAL STRETCH + EXTENSION. DETECTOR TIMING SHALL BE PROGRAMMED INTO THE TRAFFIC SIGNAL CONTROLLER. SEE TRAFFIC SIGNAL GENERAL NOTES FOR ADVANCED DETECTION DISTANCE AND TIMING.

SUGGESTED TIMINGS (SEC.)

PHASE	MIN. GREEN	*MAX. GREEN	**PEDESTRIAN			***CLEARANCE	
			WALK	FDW	SDW	YELLOW	ALL RED
2	5	30	7.0	23.0		3.7	2.3
3	5	25	-	-		3.6	2.3
4	10	40	7.0	23.0		4.4	2.3
6	5	30	7.0	25.0		3.7	2.3
7	5	25	-	-		3.6	2.3
8	10	40	5.0	18.0		4.4	2.3

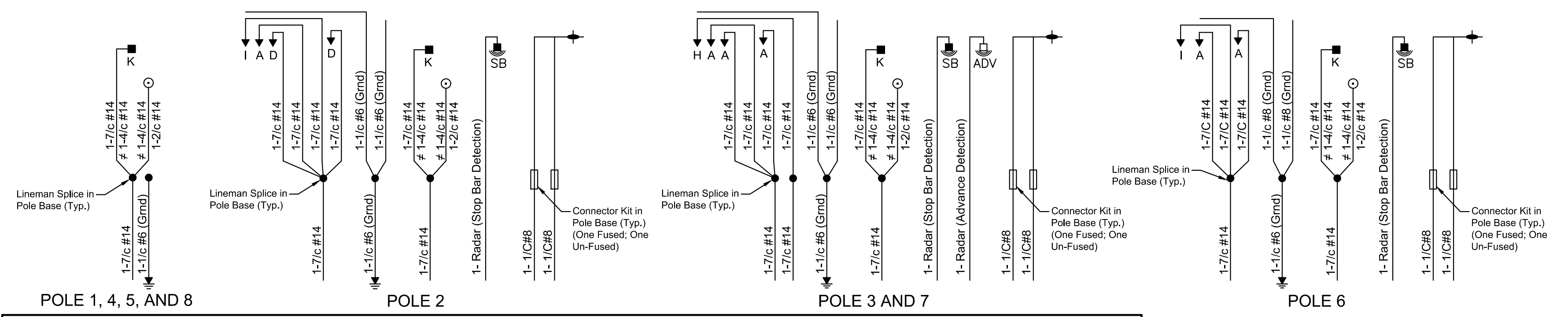
CLEARANCE DESIGN SPEEDS:
 N. RIDGE RD. = 40 MPH
 W. VILLAGE CIR. = 30 MPH

- * MAXIMUM GREEN SPLIT IS FOR NON-PEDESTRIAN CALLS ONLY. TIMING INCORPORATES YELLOW & ALL RED CLEARANCE TIMES.
- ** PEDESTRIAN PHASING SHALL EXTEND PHASE WHEN CALLED IF APPROPRIATE. PEDESTRIAN CLEARANCE TIMES SHALL FOLLOW MUTCD GUIDELINES FOR PHASES.
- *** SIGNAL CLEARANCE TIMINGS ARE CALCULATED BASED ON RECOMMENDATIONS FROM NCHRP REPORT 731.



4-C FROM PEDESTRIAN SIGNAL HEAD (K) TO ADA PUSHBUTTON PROVIDED BY SUPPLIER.

POLE WIRING DIAGRAMS



- NOTES:
- ALL MULTI-CONDUCTOR WIRE SHALL BE AWG #14 SOLID UNLESS SPECIFIED OTHERWISE. LABEL EACH WIRE AS SHOWN IN PART 700 SPECIFICATIONS.
 - ALL GROUND WIRE SHALL BE #6 AWG COPPER WIRE IN ACCORDANCE WITH ATM B-3. SOLID BARE COPPER WIRE SHALL BE USED FOR ALL EXTERIOR INSTALLATIONS INCLUDING SERVICE AND GROUND ROD BONDING. OTHERWISE, GREEN INSULATED STRANDED WIRE TYPE "THHN/THWN" SHALL BE USED.
 - GROUND WIRE SHALL BE BONDED TO EACH GROUND ROD AT EVERY POLE, PEDESTAL, SERVICE BOX, AND CONTROLLER TO FORM ONE CONTINUOUS GROUND CIRCUIT.
 - DETECTOR CABLES SHOULD RUN CONTINUOUS. SPLICES, IF REQUIRED, SHALL ONLY OCCUR IN THE POLE BASE AND MUST BE APPROVED BY THE CITY OF WICHITA TRAFFIC ENGINEER.
 - IN NO CASE SHALL MORE THAN 60% OF ANY CONDUIT BE FILLED BY AREA.
 - STREET LIGHTING CABLE SHALL BE SPLICED IN SERVICE BOXES. THE SPLICE SHALL BE MADE WATERPROOF.
 - SPLICES AT POLE BASE SHALL BE LINEMAN SPLICES PER SECTION 702.21.11. TERMINAL BLOCKS WILL NOT BE USED.
 - ALL CONDUIT SHALL BE HOT DIPPED GALVANIZED RIGID STEEL CONDUIT (GRC) AS SHOWN IN THE PROJECT SPECIFICATIONS.
 - DURING EMERGENCY FLASH OPERATIONS, ALL SIGNAL PHASES SHALL BE RED INDICATIONS. PEDESTRIAN PHASE SHALL BE DARK.



PLANS FOR
RIDGE RD. & VILLAGE CIR. TRAFFIC SIGNAL
WICHITA, KS

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SIGNAL WIRING PLAN

PROJECT NO.	472-2021-085741	
DATE	8/8/2022	
SCALE	N.T.S.	
DESIGNED	DRAWN	CHECKED
JRA	WNJ	JRA
NO.	REVISION	DATE

SHEET NO. 11 OF 31