

PROJECT INFORMATION

PROJECT/PID: 96425
INTERSECTION NAME: HAM_Vine Street
STUDY DATE: 6/19/2024

REVIEW COMPLETE

PM _____
BRIDGES _____
CONSTRUCT _____
DRAINAGE _____
ENVIRON _____
GEOTECH _____
ITS _____
MOT _____
PAVEMENT _____
ROADWAY _____
R/W _____
SURVEY _____
TRAFFIC Teri C. Scanlon, P.E. 08/20/2024
UTILITIES _____
OTHER _____
OTHER _____

SUPPORT NO.	ARM	MIN CLEARANCE FROM PAVEMENT TO BOTTOM OF SIGNAL HEAD	MAX CLEARANCE FROM PAVEMENT TO BOTTOM OF SIGNAL HEAD	FOUNDATION ELEVATION AT GROUND LEVEL	DISTANCE FROM GROUND TO FOUNDATION	ELEVATION B TOP OF FOUNDATION	RISE ANGLE WITH HORIZONTAL ARM TIP	SIGNAL HEADS CENTERED ON WHICH COLOR?	SIGNAL NO.	SIGNAL HEAD TYPE (12 IN. SECTIONS WITH BACKPLATES)	DISTANCE FROM BOTTOM OF SIGNAL HEAD TO CENTER OF MAST ARM (TEM 497-6)	SIGNAL HEAD DISTANCE FROM SUPPORT POLE	ELEVATION A PAVEMENT ELEVATION UNDER SIGNAL HEAD OR SIGN	MINIMUM HEIGHT (FOUNDATION TO MAST ARM)	MAXIMUM HEIGHT (FOUNDATION TO MAST ARM)	MINIMUM ALLOWABLE HEIGHT (FOUNDATION TO MAST ARM)	MAXIMUM ALLOWABLE HEIGHT (FOUNDATION TO MAST ARM)	FINAL ATTACHMENT ARM HEIGHT (FOUNDATION TO MAST ARM)	DOES MAST ARM HAVE POLE EXTENSION? ^	HEIGHT FROM MAST ARM TO TOP OF POLE	SUGGESTED POLE HEIGHT	POLE HEIGHT WITH 10' EXTENSION
		FT	FT	FT	IN	FT	DEGREE				FT	FT	FT	FT	FT	FT	FT	FT		FT	FT	FT
SP-1	A	17	19	527.48	2	527.65	0	YELLOW	6B	3 SECTIONS	2.3	47	527.71	19.36	21.36	19.7	21.4	20.5	NO	1.5	22	N/A
									6A	3 SECTIONS	2.3	38	527.71	19.36	21.36							
									5A	5 SECTIONS - CLUSTER	2.6	25	527.71	19.66	21.66							
									2A	3 SECTIONS	2.3	15	527.71	19.36	21.36							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
SP-2	A	17	19	527.6	2	527.77	0	YELLOW	6C	3 SECTIONS	2.3	23	527.25	18.78	20.78	18.8	20.8	19.5	NO	1.5	21	N/A
									6D	3 SECTIONS	2.3	15	527.25	18.78	20.78							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
SP-3	A	17	19	527.41	2	527.58	0	YELLOW	4A	5 SECTIONS - CLUSTER	2.6	43	527.40	19.42	21.42	19.4	21.1	20	NO	1.5	21.5	N/A
									7B	3 SECTIONS	2.3	13	527.40	19.12	21.12							
									7A	5 SECTIONS - CLUSTER	2.6	3	527.40	19.42	21.42							
									-	-	-	-	-	-	-							
SP-4	A	17	19	527.1	2	527.27	0	RED	OLCA	5 SECTIONS - CLUSTER	3.7	26	527.12	20.55	22.55	20.6	22.3	20.5	NO	1.5	22	N/A
									OLCB	3 SECTIONS	3.4	15	527.12	20.25	22.25							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							

^ With typical extension, 5' is calculated, as per SCD TC-81.22.
Note: Final Pole Height will be noted in the plans on Mast Arm Design Table

5-section heads need to be mounted on yellow. This will allow the arm height to remain at 20.5'

With heads mounted on RED, the Arm height should be higher than 20.6'. Is there an overhead clearance issue?

SUPPORT NO.	ARM	NUMBER OF LUMINAIRES OR BRACKET ARMS	LUMINAIRE/ BRACKET ARM LENGTH	SIGNAL OR SIGN?	SIGNAL/ SIGN NO.	ATTACHMENT DISTANCE FROM SUPPORT POLE		SIGNAL HEAD TYPE (12 IN. LENS)	SIGN SIZE		AREA	ATTACHMENT LENGTH * AREA	L	DAMPER REQUIRED? (Incidental to Support item; CM&S 632 and SCD TC-81.22)	K	DESIGN NO.
						NO.	FT		IN	SQ. FT.			TOTAL MAST ARM LENGTH		AREA MOMENT DESIGN FACTOR	
			FT													
SP-1	A	0	-	SIGNAL	6B	L1	47	3 SECTIONS	-	-	8.7	408.9	50	NO	1547.5	13
				SIGNAL	6A	L2	38	3 SECTIONS	-	-	8.7	330.6				
				SIGN	S4	L3	30	-	24	30	5.0	150.0				
				SIGNAL	5A	L4	25	5 SECTIONS - CLUSTER	-	-	12.4	310.0				
			SIGN	S5	L5	20	-	30	36	7.5	150.0					
			SIGNAL	2A	L6	15	3 SECTIONS	-	-	8.7	130.5					
			SIGN	S6	L7	9	-	30	36	7.5	67.5					
			-	-	L8	-	-	-	-	-	-					
SP-2	A	0	-	SIGNAL	6C	L1	23	3 SECTIONS	-	-	8.7	200.1	27	NO	330.6	2
				SIGNAL	6D	L2	15	3 SECTIONS	-	-	8.7	130.5				
			-	-	L3	-	-	-	-	-	-					
			-	-	L4	-	-	-	-	-	-					
			-	-	L5	-	-	-	-	-	-					
			-	-	L6	-	-	-	-	-	-					
			-	-	L7	-	-	-	-	-	-					
			-	-	L8	-	-	-	-	-	-					
SP-3	A	0	-	SIGNAL	4A	L1	43	5 SECTIONS - CLUSTER	-	-	12.4	533.2	47	NO	1163.5	12
				SIGN	-	S1	36	-	30	30	6.3	225.0				
				SIGN	-	S2	26	-	30	36	7.5	195.0				
				SIGNAL	7B	L4	13	3 SECTIONS	-	-	8.7	113.1				
			SIGN	-	S3	8	-	30	36	7.5	60.0					
			SIGNAL	7A	L6	3	5 SECTIONS - CLUSTER	-	-	12.4	37.2					
			-	-	L7	-	-	-	-	-	-					
			-	-	L8	-	-	-	-	-	-					
SP-4	A	0	-	SIGNAL	OLCA	L1	26	5 SECTIONS - CLUSTER	-	-	12.4	322.4	25	NO	452.9	2
				SIGNAL	OLCB	L2	15	3 SECTIONS	-	-	8.7	130.5				
				-	-	L3	-	-	-	-	-	-				
				-	-	L4	-	-	-	-	-	-				
			-	-	L5	-	-	-	-	-	-					
			-	-	L6	-	-	-	-	-	-					
			-	-	L7	-	-	-	-	-	-					
			-	-	L8	-	-	-	-	-	-					

SUPPORT NO.	ARM	DESIGN NO.	POLE SIZE REQ.	POLE DESIGNATION
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-