

PROJECT INFORMATION

PROJECT/PID:	231473 ODOT GES Task 8d/109972
INTERSECTION NAME:	WAR 22 & Morrow Cozaddale
STUDY DATE:	9/18/2024

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	FT
SP-1	A	17	19	663.58	2	663.75	0	RED	2A	5 SECTIONS - CLUSTER	3.7	17	664.42	21.37	23.37	21.4	22.5	22	NO	1.5	23.5	N/A
									2B	3 SECTIONS	3.4	26	664.14	20.79	22.79							
									2C	3 SECTIONS	3.4	38	663.88	20.53	22.53							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
SP-1	B	17	19	663.58	2	663.75	0	RED	4A	3 SECTIONS	3.4	63	664.30	20.95	22.95	22.3	23.0	23	NO	1.5	24.5	N/A
									4B	4 SECTIONS	4.6	53	664.41	22.26	24.26							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
SP-2	C	17	19	663.24	2	663.41	0	RED	6A	3 SECTIONS	3.4	18	663.99	20.98	22.98	21.6	23.0	23	NO	1.5	24.5	N/A
									1A	5 SECTIONS - CLUSTER	3.7	30	664.32	21.61	23.61							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
SP-2	D	17	19	663.24	2	663.41	0	RED	8A	4 SECTIONS	4.6	55	663.40	21.59	23.59	21.6	22.0	22	NO	1.5	23.5	N/A
									8B	3 SECTIONS	3.4	67	663.00	19.99	21.99							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							
									-	-	-	-	-	-	-							

Pole extension needed for CCTV and bracket arm

1/2

0

yellow. This will affect attachment and overall support height

^ 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

SUPPORT NO.	ARM	NUMBER OF LUMINAIRES OR BRACKET ARMS	LUMINAIRE/ BRACKET ARM LENGTH FT	SIGNAL OR SIGN? NO.	SIGNAL/ SIGN NO.	ATTACHMENT DISTANCE FROM SUPPORT POLE		SIGNAL HEAD TYPE (12 IN. LENS)	SIGN SIZE		AREA SQ. FT.	ATTACHMENT LENGTH * AREA	L	DAMPER REQUIRED? (Incidental to Support item; CM&S 632 and SCD TC-81.22)	K	DESIGN NO.		
						NO.	FT		IN	FT			TOTAL MAST ARM LENGTH FT		AREA MOMENT DESIGN FACTOR			
SP-1	A	1	40	SIGNAL	2A	L1	17	5 SECTIONS - CLUSTER	-	-	12.4	210.8	40	NO	1150.1	12		
				SIGNAL	-	L2	35		-	-	7.5						262.5	
				SIGNAL	2B	L3	26		3 SECTIONS	-	-						8.7	226.2
				SIGNAL	2C	L4	38		3 SECTIONS	-	-						8.7	330.6
				-	-	L5	-		-	-	-						-	-
				-	-	L6	-		-	-	-						-	-
				-	-	L7	-		-	-	-						-	-
				-	-	L8	-		-	-	-						-	-
SP-1	B	1	65	SIGNAL	4A	L1	63	3 SECTIONS	-	-	8.7	548.1	65	YES	1626.1	14		
				SIGNAL	4B	L2	53	4 SECTIONS	-	-	11.0	583.0						
				SIGN	-	L3	40	-	30	36	7.5	300.0						
				-	-	L4	-	-	-	-	-	-						
				-	-	L5	-	-	-	-	-	-						
				-	-	L6	-	-	-	-	-	-						
				-	-	L7	-	-	-	-	-	-						
				-	-	L8	-	-	-	-	-	-						
SP-2	C	1	40	SIGNAL	6A	L1	18	3 SECTIONS	-	-	8.7	156.6	40	NO	926.1	12		
				SIGNAL	1A	L2	30	5 SECTIONS - CLUSTER	-	-	12.4	372.0						
				SIGN	-	L3	37	-	30	36	7.5	277.5						
				-	-	L4	-	-	-	-	-	-						
				-	-	L5	-	-	-	-	-	-						
				-	-	L6	-	-	-	-	-	-						
				-	-	L7	-	-	-	-	-	-						
				-	-	L8	-	-	-	-	-	-						
SP-2	D	1	69	SIGNAL	8A	L1	55	4 SECTIONS	-	-	11.0	605.0	69	YES	1394.9	14		
				SIGNAL	8B	L2	67	3 SECTIONS	-	-	8.7	582.9						
				-	-	L3	-	-	-	-	-	-						
				-	-	L4	-	-	-	-	-	-						
				-	-	L5	-	-	-	-	-	-						
				-	-	L6	-	-	-	-	-	-						
				-	-	L7	-	-	-	-	-	-						
				blank	-	L8	-	-	-	-	-	-						

Include street name signs in calculations. It may not make a difference, but should be included for completeness

SUPPORT NO.	ARM	DESIGN NO.	POLE SIZE REQ.	POLE DESIGNATION
SP-1	B	14	D	TC-12.31 DES 10
	A	12		
SP-2	C	14	D	TC-12.31 DES 10
	D	12		
-	-	-	-	-
-	-	-	-	-