

Allowable Attachments and Signage for Traffic Standards

Structural Review of Traffic Signal Designs and Specifications
 Dillon Consulting Project #: 11-5296

Date: March 27, 2012
 By: CDW

Drawing Nos. "S"	Structure Description	Traffic Signals**		Pedestrian Signals		Sign Panel Size		Luminaire	
		On Arm	On Shaft	Overhead Corridor Signal	Walk Signals	Blade on Arm (mm)	Cluster on Shaft	Configuration	Height (m)
Straight Standards									
1	2.9 m Shaft	---	1	---	2	---	1.00 m ²	---	---
2	5.0 m Shaft	---	2	---	2	---	1.00 m ²	---	---
Light Series Davits									
3	No Extension Arm	1	1	---	2	2500 x 333	---	---	---
4,5	2.5 m Signal Arm Extension	1	1	---	2	3000 x 300	---	---	---
4,5	2.5 m Corridor Arm Extension	---	---	1	---	3300 x 300	900 x 1200	---	---
Medium Series Double Cantilever									
6	2 x 4.5 m Arms	---	---	1 each	---	---	900 x 1200	---	---
Medium Series Cantilever (No Luminaire)									
7,8	5.0 m Signal Arm	1	1	---	2	3300 x 300	2.00 m ²	---	---
7,8	6.0 m Signal Arm	1	1	---	2	3300 x 300	2.00 m ²	---	---
	7.5 m Signal Arm								---
7,8	Case 1	1	1	---	2	3300 x 300	2.00 m ²	---	---
7,8	Case 2	2	0	---	2	3300 x 300	2.00 m ²	---	---
7,8	5.5 m Corridor Arm	---	---	1	---	3300 x 610	900 x 1200	---	---
7,8	7.0 m Corridor Arm	---	---	1	---	3300 x 610	900 x 1200	---	---
Medium Series Cantilever (with Single Davit Luminaire)									
7,8,12	5.0 m Signal Arm	1	1	---	2	3300 x 300	1.50 m ²	Lum. Davit (no Stub Ext.)	10.6
7,8,12	6.0 m Signal Arm	1	1	---	2	3000 x 300	1.20 m ²	Lum. Davit (no Stub Ext.)	10.6
	7.5 m Signal Arm								
7,8,12	Case 1	1	1	---	2	2000 x 300	0.60 m ²	Lum. Davit (no Stub Ext.)	10.6
7,8,12	Case 2	2	0	---	2	0 x 0	0.00 m ²	Lum. Davit (no Stub Ext.)	10.6
7,8,12	5.5 m Corridor Arm	---	---	1	---	3300 x 333	900 x 1200	Lum. Davit (no Stub Ext.)	10.6
7,8,12	7.0 m Corridor Arm	---	---	1	---	3300 x 333	900 x 1200	Lum. Davit (no Stub Ext.)	10.6
Medium Series Cantilever (with Single Davit Luminaire & 1.5 m Stub Extension)									
7,8,12,16	5.0 m Signal Arm	1	1	---	2	3000 x 300	1.00 m ²	Lum. Davit on 1.5 m Stub	12.1
7,8,12,16	6.0 m Signal Arm	1	1	---	2	2000 x 300	1.00 m ²	Lum. Davit on 1.5 m Stub	12.1
	7.5 m Signal Arm								
7,8,12,16	Case 1	1	1	---	2	0 x 0	0.75 m ²	Lum. Davit on 1.5 m Stub	12.1
7,8,12,16	Case 2	2*	0	---	0	0 x 0	0.75 m ²	Lum. Davit on 1.5 m Stub	12.1
7,8,12,16	5.5 m Corridor Arm	---	---	1	---	2000 x 300	900 x 1200	Lum. Davit on 1.5 m Stub	12.1
7,8,12,16	7.0 m Corridor Arm	---	---	1	---	2000 x 300	900 x 1200	Lum. Davit on 1.5 m Stub	12.1
Medium Series Cantilever (with Single Davit Luminaire & 3.0 m Stub Extension)									
7,8,12,16	5.0 m Signal Arm	1	1	---	2	2000 x 300	0.75 m ²	Lum. Davit on 3.0 m Stub	13.6
7,8,12,16	6.0 m Signal Arm	1	1	---	2	0 x 0	0.75 m ²	Lum. Davit on 3.0 m Stub	13.6
	7.5 m Signal Arm								
7,8,12,16	Case 1	1	1	---	0	0 x 0	0.00 m ²	Lum. Davit on 3.0 m Stub	13.6
7,8,12,16	Case 2	2*	0	---	0	0 x 0	0.00 m ²	Lum. Davit on 3.0 m Stub	13.6
7,8,12,16	5.5 m Corridor Arm	---	---	1	---	0 x 0	900 x 1200	Lum. Davit on 3.0 m Stub	13.6
7,8,12,16	7.0 m Corridor Arm	---	---	1	---	0 x 0	900 x 1200	Lum. Davit on 3.0 m Stub	13.6
Medium Series Cantilever (with Single Davit Luminaire & 4.5 m Stub Extension)									
7,8,12,16	5.0 m Signal Arm	1	1	---	2	0 x 0	0.00 m ²	Lum. Davit on 4.5 m Stub	15.1
7,8,12,16	6.0 m Signal Arm	1*	1*	---	2	0 x 0	0.00 m ²	Lum. Davit on 4.5 m Stub	15.1
	7.5 m Signal Arm								
7,8,12,16	Case 1	1*	0	---	2	0 x 0	0.00 m ²	Lum. Davit on 4.5 m Stub	15.1
7,8,12,16	Case 2	1*	1*	---	0	0 x 0	0.00 m ²	Lum. Davit on 4.5 m Stub	15.1
7,8,12,16	5.5 m Corridor Arm	---	---	1	---	0 x 0	900 x 1200	Lum. Davit on 4.5 m Stub	15.1
7,8,12,16	7.0 m Corridor Arm	---	---	1	---	0 x 0	0.00 m ²	Lum. Davit on 4.5 m Stub	15.1

Notes:

* Indicates 3-section head

** Traffic signals assumed to be 4 lamps per unit unless where noted by *.

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		On Arm	On Shaft	Overhead Corridor Signal	Walk Signals	Blade on Arm (mm)	Cluster on Shaft	Configuration	Height (m)
Medium Series Cantilever (with 3 x 1.0 m Hydro Luminaires on 5.4 m Extension)									
7,8,13,14	5.0 m Signal Arm	1	0	---	2	2000 x 300	0.00 m ²	3 x 1.0 m Arms on 5.4 m Ext.	12.2
7,8,13,14	6.0 m Signal Arm	1	0	---	2	2000 x 300	0.00 m ²	3 x 1.0 m Arms on 5.4 m Ext.	12.2
	7.5 m Signal Arm								
7,8,13,14	Case 1	1	0	---	2	0 x 0	0.00 m ²	3 x 1.0 m Arms on 5.4 m Ext.	12.2
7,8,13,14	Case 2	1	0	---	0	1000 x 300	0.00 m ²	3 x 1.0 m Arms on 5.4 m Ext.	12.2
7,8,13,14	5.5 m Corridor Arm	---	---	1	---	0 x 0	900 x 1200	3 x 1.0 m Arms on 5.4 m Ext.	12.2
7,8,13,14	7.0 m Corridor Arm	---	---	1	---	0 x 0	900 x 1200	3 x 1.0 m Arms on 5.4 m Ext.	12.2
Heavy Series Cantilever - Advance Warning Sign (with Single Davit Luminaire & up to 6.1 m Stub Extension)									
9,10,12,16	7.5 m Arm	---	---	---	---	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
9,10,12,16	9.0 m Arm	---	---	---	---	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
9,10,12,16	10.5 m Arm	---	---	---	---	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
9,10,12,16	15.0 m Arm	---	---	---	---	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
Heavy Series Cantilever - Advance Warning Sign Structure (with 3 x 3 m Hydro Luminaires on 5.4 or 8.4 m Ext.)									
9,10,13,14	7.5 m Arm	---	---	---	---	3300 x 610	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
9,10,13,14	9.0 m Arm	---	---	---	---	3300 x 610	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
9,10,13,14	10.5 m Arm	---	---	---	---	3300 x 300	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
9,10,13,14	15.0 m Arm	---	---	---	---	3300 x 300	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
Heavy Series Cantilever - Traffic Signals Arm (with Single Davit Luminaire on up to 6.1 m Stub Extension)									
9,11,12,16	7.5 m Arm	2	2	---	2	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
9,11,12,16	9.0 m Arm	2	2	---	2	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
9,11,12,16	10.5 m Arm	2	2	---	2	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
9,11,12,16	15.0 m Arm	2	2	---	2	3300 x 610	3.00 m ²	Lum Davit on up to 6.1 m Stub Ext.	16.7
Heavy Series Cantilever - Traffic Signal Arm (with 3 x 3m Hydro Luminaires on 5.4 or 8.4 m Ext.)									
9,11,13,14	7.5 m Arm	2	2	---	2	3300 x 610	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
9,11,13,14	9.0 m Arm	2	2	---	2	3300 x 610	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
9,11,13,14	10.5 m Arm	2	2	---	2	3300 x 610	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2
9,11,13,14	15.0 m Arm	2	2	---	2	3300 x 610	3.00 m ²	3 x 3.0 m Arms on 5.4 or 8.4 m Ext.	15.2

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