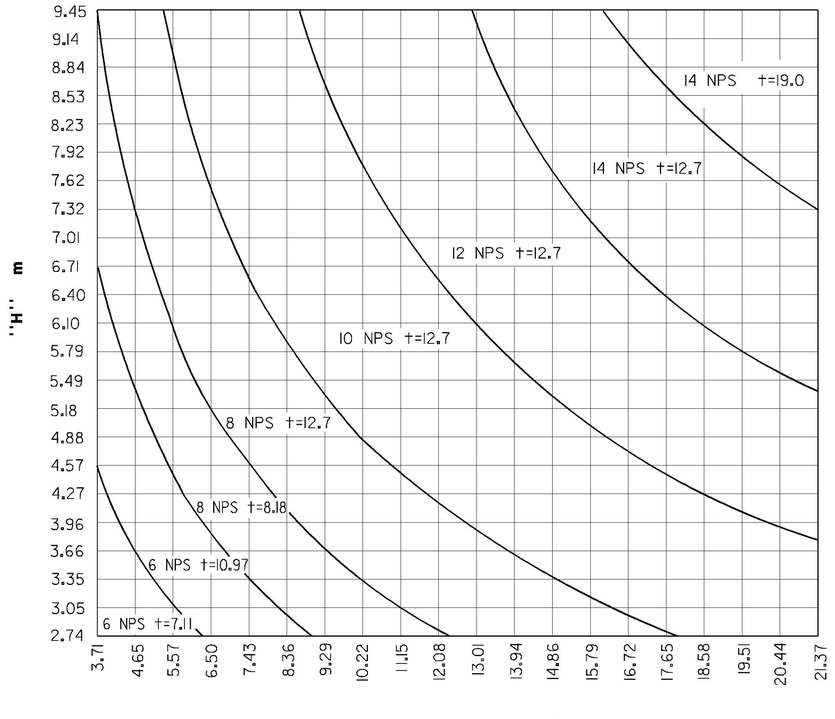


POST SELECTION CHART

POST QUANTITIES										
POST SIZE	PANEL DEPTH									Kg/m
	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3	3.6	
6 NPS t=7.04	290	295	299	304	308	318	322	327	331	28.23
6 NPS t=10.97	399	404	408	413	422	440	449	454	458	42.52
8 NPS t=8.18	449	454	458	463	467	490	494	499	508	42.49
8 NPS t=12.7	635	644	653	662	671	699	708	717	726	64.57
10 NPS t=12.7	803	817	826	839	848	885	894	907	916	81.46
12 NPS t=12.7	934	948	962	971	984	1034	1048	1057	1071	97.36
14 NPS t=12.7	1139	1152	1166	1179	1193	1247	1261	1275	1288	107.28
14 NPS t=19.0	1500	1521	1537	1559	1580	1651	1673	1690	1711	157.90

Weight in kg, includes post, base plate, post ∠'s and anchorage assembly.
Post quantities are based on "h" = 5.5 m. For "h" greater or less than 5.5 m, add or subtract the Kg/m of post from values shown in "Post Quantities" table.

LIGHT FIXTURE MOUNTING ASSEMBLY													
	PANEL LENGTH "A"												
	2.4	2.7	3.0	3.3	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8	6.1
SF	40	43	45	46	48	50	51	53	69	70	72	74	75
DF	84	87	90	94	97	101	104	108	138	142	146	149	152

Illuminated sign only. Weight in kg includes extended part of mounting beams and light fixture mounting channels.

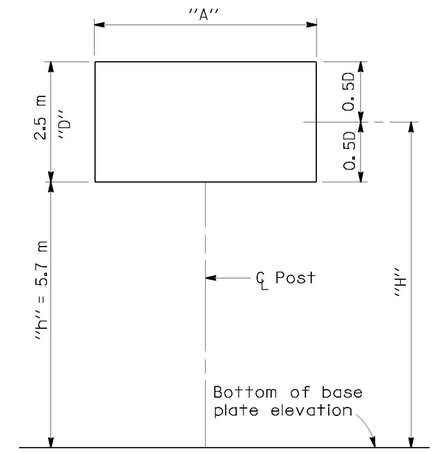
MAST ARM QUANTITIES												
PANEL LENGTH "A"												
2.4	2.7	3.0	3.3	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8	6.1
71	80	80	88	88	96	104	180	191	191	201	212	212

Weight in kg, includes square tubing, end cover plates and mast arm ∠'s

PANEL LENGTH "A"	MOUNTING BEAM QUANTITIES PANEL DEPTH "D"															
	1.5		1.8		2.0		2.3		2.5		2.8		3.0		3.3		3.6	
	SF	DF	SF	DF	SF	DF	SF	DF	SF	DF	SF	DF	SF	DF	SF	DF	SF	DF
3.3-4.3	37	84	43	94	49	107	55	118	60	130	66	142	72	153	77	165	83	177
4.4-6.1	55	118	64	134	72	151	81	167	89	183	98	199	107	216	116	232	125	250

Weight in kg, includes I-beams, U-bolts, channel hanger plates and spacer brackets.

NOTE : SF = Single face sign
DF = Double face sign



EXAMPLE :

Double faced illuminated sign
Sign panel depth = 2.5 m
Sign panel length = 4.9 m
Panel area = 12.4 m^2
"H" = 7 m
Post size = 12 NPS t=12.7
"h" = 5.7 m

Post wt. 984 + (5.7 - 5.5) (97.36)	=	1003
Mast arm wt.	=	191
Mounting beam wt.	=	183
Light fixture mounting assembly wt.	=	138
Subtotal	=	1515
Galvanize + 3½%	=	53
(Sign structure - lightweight) Total wt.	=	1568

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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THIS SHEET NOT A PART OF CONTRACT PLANS

OVERHEAD SIGNS - LIGHTWEIGHT SINGLE STEEL POST - BALANCED

POST SELECTION AND QUANTITIES | **20**