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

REGISTERED ENGINEER - CIVIL

PLANS APPROVAL DATE

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

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REMOVABLE SIGN PANEL FRAME (WEIGHT - lb)*
(FOR OVERHEAD FORMED PANEL)

PANEL LENGTH	PANEL DEPTH							
	50"	60"	70"	80"	90"	100"	110"	120"
4′	82	88	95	101	108	115	119	126
6′	128	139	150	161	172	183	194	205
8′	141	152	163	174	187	198	209	220
10′	183	198	214	229	247	262	280	295
12′	196	214	229	245	260	278	293	311
14′	236	258	280	300	322	344	364	386
16′	251	271	293	315	335	357	379	399
18′	295	322	348	375	399	428	454	481
20′	311	335	364	388	414	443	467	494
22′	359	392	425	456	489	522	556	586
24′	375	408	439	472	505	538	571	602
26′	414	452	489	527	564	602	639	677
28′	432	472	507	547	582	622	659	697
30′	476	520	562	604	646	690	732	776
32′	518	564	613	659	708	754	802	851
34′	536	582	631	679	725	774	822	869
36′	575	628	681	734	791	840	893	946
38′	591	644	697	750	800	853	906	959
40′	604	657	712	763	816	869	922	974

* Includes frame and attaching ∠ s

MOUNTING BEAMS ON OVERHEAD SIGN TRUSS (WEIGHT - lb)
(FOR LAMINATED PANEL TYPE A)

PANEL LENGTH	PANEL DEPTH							
	50"	60"	70"	80"	90"	100"	110"	120"
4′ TO 15′	79	93	106	119	130	143	154	168
15′-5" TO 24′	119	139	159	176	194	214	234	251
24′-3" TO 32′-9"	161	185	209	236	260	284	311	335
33′ TO 40′	201	231	262	293	324	357	388	419

POST QUANTITIES (WEIGHT - lb)

POST TYPE	PANEL DEPTH								Column "A"
	50"	60"	70"	80"	90"	100"	110"	120"	lb/ft
II	1,687	1,746	1,806	1,867	1,927	1,986	1,986	1,986	72.0
III	1,936	2,004	2,075	2,143	2,211	2,280	2,280	2,280	82.7
IV	2,187	2,264	2,341	2,418	2,498	2,575	2,575	2,575	93.3
V	2,436	2,522	2,608	2,696	2,782	2,868	2,868	2,868	104.0
VI		3,040	3,144	3,250	3,353	3,457	3,457	3,457	125.3
VII			4,665	4,821	4,976	5,130	5,130	5,130	186.0
VIII & IX							6,561	6,561	237.8

NOTES:

1. Post quantities are based on "h" = 18′-9". Column "A" lb/ft to be added or subtracted from weights shown on table.
2. Walkway assembly includes grating, brackets, safety railing, light fixture supports and all fittings.

FOUNDATION QUANTITIES FOR ONE SPREAD FOOTING

POST TYPE	BAR REINF STEEL, lb	CLASS "A" CONC, ft^3	STRUCT EXCAV, ft^3	STRUCT BACKFILL, ft^3
II	3,424	490.9	1,367	872.3
III	3,554	522.7	1,462	942.9
IV	3,554	522.7	1,462	942.9
V	4,846	558	1,575	1,017.1
VI	5,677	646.3	1,783.4	1,140.7
VII	5,853	678	1,889.3	1,211.3
VIII	5,906	709.8	1,995.3	1,285.5
IX	5,906	709.8	1,995.3	1,285.5

Note: Quantities are based on a spread footing and a 6′-6" pedestal

JUNCTURE CONNECTIONS
UPPER & LOWER CHORD CONNECTIONS (CAP PLATE & RING, LOWER SEAT PLATE, POST PLATES & POST GUSSETS AT JUNCTURE)

POST TYPE	FOR CHORD ANGLE L5" x 5" x ½" Total Wt (lb)	FOR CHORD ANGLE L6" x 6" x ½" Total Wt (lb)
II	686	783
III	785	888
IV	891	1,001
V	1,003	1,122
VI	1,250	1,382
VII	1,250	1,382
VIII	1,250	1,382
IX	1,250	1,382

WEIGHT OF ANCHOR BOLTS w/NUTS A307

POST TYPE	TOTAL Wt BOLT & NUTS (lb EA POST)
II	668
III	668
IV	668
V	780
VI	1,140
VII	1,140
VIII	1,140
IX	1,140

GUSSETS FOR POST BASE

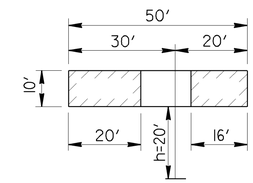
POST TYPE	Wt (lb) EA POST
II	126
III	126
IV	126
V	126
VI	181
VII	181
VIII	181
IX	181

BASE PLATE

POST TYPE	Wt (lb) EA POST
II	516
III	516
IV	516
V	516
VI	891
VII	891
VIII	1,248
IX	1,248

POST TYPE	SPECIFICATION OF PIPE POST	lb/ft
II	14" NPS x ½" TK	71.9
III	16" NPS x ½" TK	82.7
IV	18" NPS x ½" TK	93.3
V	20" NPS x ½" TK	104
VI	24" NPS x ½" TK	125.4
VII	24" NPS x ¾" TK	186
VIII	24" NPS x 31/32" TK	237.9
IX	24" NPS x 31/32" TK	237.9

EXAMPLE



Given :

Sign panel depth = 10′
Length of frame = 50′
Sign panel length = 20′
Sign panel length = 16′
Post = Type VIII
Walkway assembly = 75 lb/ft
Chord angles = L6" x 6" x ½"

REMOVABLE SIGN PANEL FRAME

Truss frame	=	8,854 lb
Removable sign panel frame (20′)	=	494 lb
Removable sign panel frame (16′)	=	399 lb
Post = 6,561+(20′-18′-9") x 237.8	=	6,858 lb
Walkway assembly 50′ x 75 lb/ft	=	3,750 lb
Juncture connection Type VIII	=	1,382 lb
Anchor bolt & nuts Type VIII	=	1,140 lb
Base plate gussets Type VIII	=	181 lb
Base plate Type VIII	=	1,248 lb
Sub total	=	24,306 lb
3.5 % for galvanizing	=	851 lb
Total	=	25,157 lb
Use	=	25,160 lb

LAMINATED SIGN PANEL MOUNTING I-BEAM

Truss frame	=	8,854 lb
Mounting I-Beam (20′)	=	251 lb
Mounting I-Beam (16′)	=	251 lb
Post = 6,561+(20′-18′-9") x 237.8	=	6,858 lb
Walkway assembly 50′ x 75 lb/ft	=	3,750 lb
Juncture connection Type VIII	=	1,382 lb
Anchor bolt & nuts Type VIII	=	1,140 lb
Base plate gussets Type VIII	=	181 lb
Base plate Type VIII	=	1,248 lb
Sub total	=	23,915 lb
3.5 % for galvanizing	=	838 lb
Total	=	24,753 lb
Use	=	24,760 lb

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THIS SHEET NOT A PART OF CONTRACT PLANS

OVERHEAD SIGNS-TRUSS SINGLE POST TYPE

QUANTITIES | **10**