

Moterials
Mast Arm \& Pole: Allowable Yield Fy $=380 \mathrm{MPa}(55 \mathrm{ksi}) \mathrm{min}$. Baseplate \& Structural Steel:

Pipe:
ASTM A36 steel 248 MPa ( 36 ksi )
Castings: ASTM AS3 GR "B" steel
Anchor bolt: ASTM A37 GR 6535 steel
Cap Screws: High strength Bolt ASTM 325 N or
Welds:

Reinforced
Concrete:
Finish Pole.
Pole:
Hardware:
Loading
Wind velocity: ASTM 325 X
All butt weld to be ground flush with base metalinal - Butt weld by the submerged arc process. Circumferential - Butt weld with permanent back-up ring. $f^{\prime} c=20.7 \mathrm{MPa}(3000 \mathrm{psi})$ $f y=413 \mathrm{MPa}(60 \mathrm{ksi})$

Galvanized per ASTM A123

Notes
1- Mast arm shall not deflect below horizontal plane when

- fully loaded and plumbed vertically

2 - For connection details, signal mounting \& framework,
and pole foundation details, see County
Standard Details $E / 41, E / 42 \& E / 43$.
3 - Signal head shall be 305 mm (12") Red, Yellow, Green sections with backplate and visor, weighing 29 kg ( 65 lbs )
4 - Regulatory sign shall be $914 \mathrm{~mm} \times 914 \mathrm{~mm}\left(3^{\prime} \times 3^{\prime}\right)$ max. in size weighing $11 \mathrm{~kg}(25 \mathrm{lbs})$ max. See $\left(\frac{(15-7)}{(\mathbb{D N U})}\right.$ for connection details.
5 - Street name sign shall be $560 \mathrm{~mm} \times 1830 \mathrm{~mm}\left(22^{\prime \times} \times-0^{\prime \prime}\right)$ max. in size weighing 29 kg ( 65 lbs ) max. Minimum vertical clearance shall be $4.9 \mathrm{~m}\left(16^{\prime}\right)$.
6 - Optional reduction in thickness to $6.07 \mathrm{~mm}(3 \mathrm{Ga})$ from spice to end of mast arm for the 19.81 m (65') mast arm.

## Legend

$$
\begin{aligned}
& -2006 \text { Caltrans Standard } \\
& \text { Plan Sheet No. } \\
& \text { Detail No. } \\
& \text { County Standard } \\
& \text { Plan Sheet No. } \\
& \text { Detail No. }
\end{aligned}
$$

|  | SIGNAL ARM DATA |  |  |  |  |  | LUMINAIRE ARM DATA |  |  | SIGNAL HEAD CLEARANCE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pole Type | A | B | C | Min. $O D$ at Pole | Min. OD at End of Arm | Thickness | D | Min. $O D$ at Pole | Thickness | H |
| $\left\lvert\, \begin{gathered} \operatorname{SCC} 26-6-160 \\ (26-6-100) \end{gathered}\right.$ | $\begin{gathered} 16.76 m \\ \left(55^{\prime}-0^{\prime \prime}\right) \end{gathered}$ | $\begin{gathered} 3.2 m \\ \left(10^{\prime}-6^{\prime \prime}\right) \end{gathered}$ | $\frac{1.37 m}{\left(4^{\prime}-6^{\prime \prime}\right)}$ | $\begin{aligned} & 317 \mathrm{~mm} \\ & \left(12.5^{\prime \prime}\right) \end{aligned}$ | $\underset{\left(4.4^{\prime \prime}\right)}{112 \mathrm{~mm}}$ | $\begin{gathered} 6.07 \mathrm{~mm} \\ (3 \mathrm{Ga}) \end{gathered}$ | $\begin{gathered} 4.57 m \\ \left(15^{\prime}-0^{\prime \prime}\right) \end{gathered}$ | $\begin{aligned} & 117 \mathrm{~mm} \\ & \left(4.61^{\prime \prime}\right) \end{aligned}$ | $\begin{aligned} & 3.04 \mathrm{~mm} \\ & (11 \mathrm{Ga}) \end{aligned}$ | $\begin{gathered} 5.20 \mathrm{~m} \min . \\ \left(17^{\prime}-0^{\prime \prime}\right) \end{gathered}$ |
| $\begin{gathered} S C C ~ 29-6-160 \\ (29-6-100) \end{gathered}$ | $\begin{gathered} 19.81 m \\ \left(65^{\prime}-0^{\prime \prime}\right) \end{gathered}$ | $\begin{gathered} 3.96 m \\ \left(13^{\prime}-0^{\prime \prime}\right) \end{gathered}$ | $\begin{gathered} 3.66 \mathrm{~m}^{\prime \prime} \\ \left(12^{\prime}-0^{\prime \prime}\right. \end{gathered}$ | $\begin{aligned} & 343 \mathrm{~mm} \\ & \left(13.5^{\prime \prime}\right) \end{aligned}$ | $\begin{gathered} 112 \mathrm{~mm} \\ \left(4.4^{\prime \prime}\right) \end{gathered}$ | $\begin{gathered} 7.94 \mathrm{~mm} \\ \binom{\left(5 / 16^{\prime \prime}\right)}{(\text { See Note }} \end{gathered}$ | $\begin{gathered} 6.10 \mathrm{~m} \\ \left(20^{\prime}-0^{\prime \prime}\right) \end{gathered}$ | $\begin{aligned} & 133 \mathrm{~mm} \\ & \left(5.24^{\prime \prime}\right) \end{aligned}$ | $\begin{aligned} & 3.04 \mathrm{~mm} \\ & (11 \mathrm{Ga}) \end{aligned}$ | $\begin{gathered} 5.50 m \min . \\ \left(18^{\prime}-0^{\prime \prime}\right) \end{gathered}$ |



