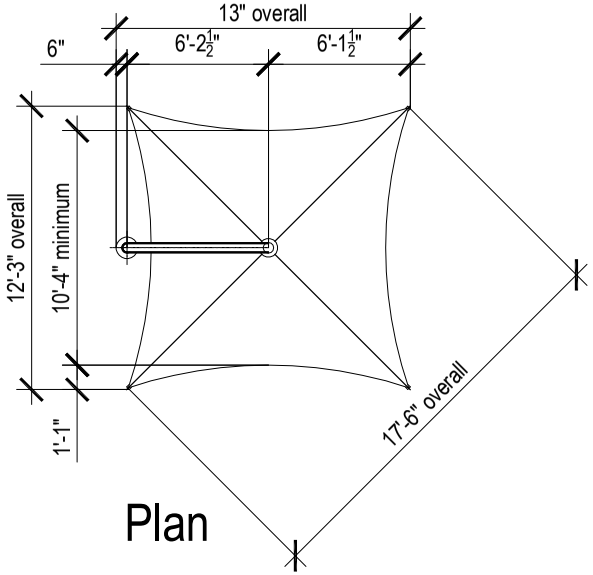
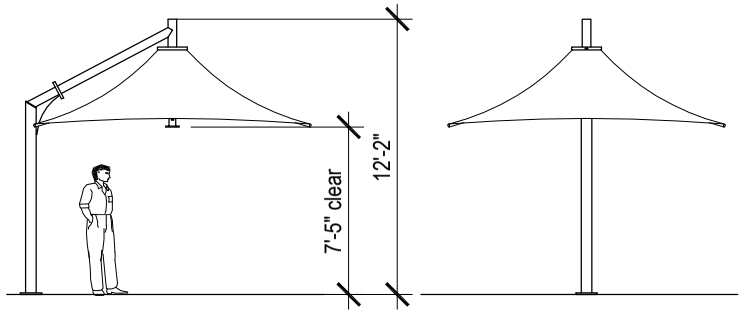
LEVA SQUARE 12'-6" - LS38
Designed to 90mph, Exp B
Rated when umbrella is fully erected.
Umbrella weight: 203 lb.
Boom weight: 243 lb.

Overall dimensions represent clearance dimensions for the complete umbrella. Membrane dimensions differ, depending on variations in tensioning and fabrication. All dimensions are nominal and have a tolerance of +/- 2".

Note : The umbrellas must be closed and tied before wind speeds reach gusts of 60mph (100km/h) Refer note on Specification - Umbrella Design.

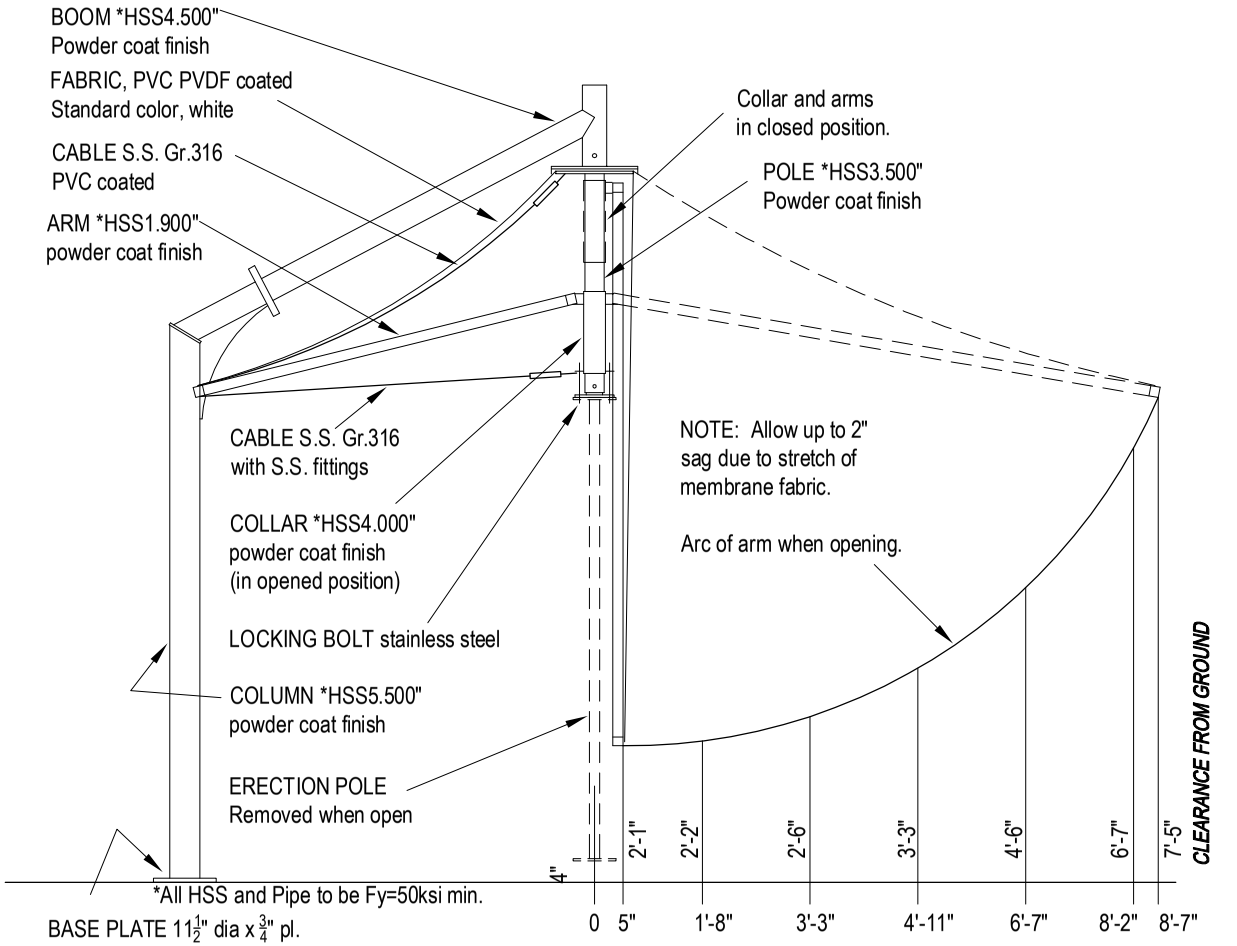


Plan



Side Elevation

Elevation

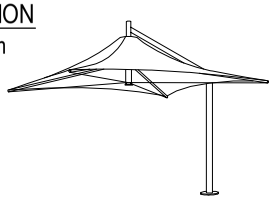


*All HSS and Pipe to be Fy=50ksi min.

BASE PLATE 11½" dia x ¾" pl.
with Ø3" service hole.
6- ¾" hold down bolts on 8⅝" B.C.
F1554 Gr. 36 galvanized or stainless steel Gr.316.
With dome nuts and leveling nuts.

OPENED POSITION
View square to boom

CLOSED POSITION
View square to arm



12'-6" Side Support Square Umbrella
Leva - Model LS38

Leva Model LS38
Architectural Umbrellas

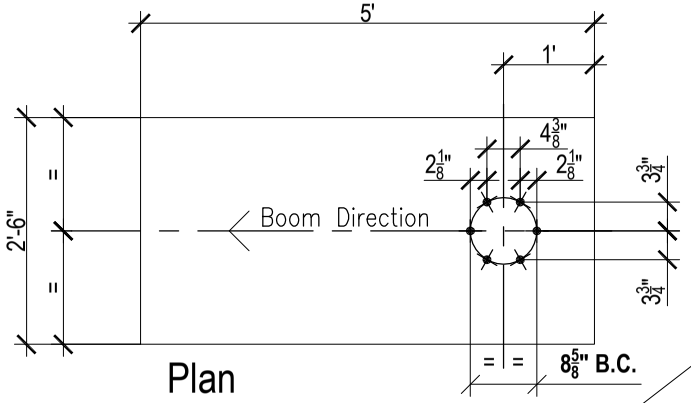
BIRDAIR

Figured dimensions take precedence. Do not scale.

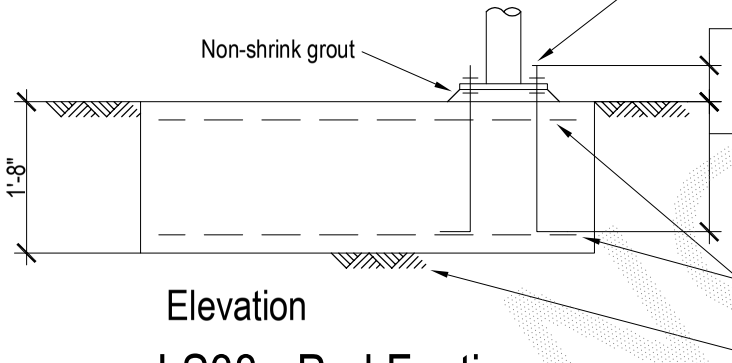
Birdair Inc.

Engineering Framing EF-LS38-07.10

www.birdairumbrellas.com
sales@birdairumbrellas.com

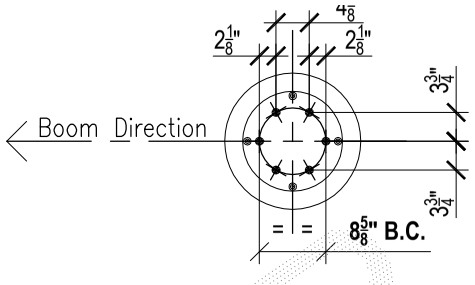


Plan

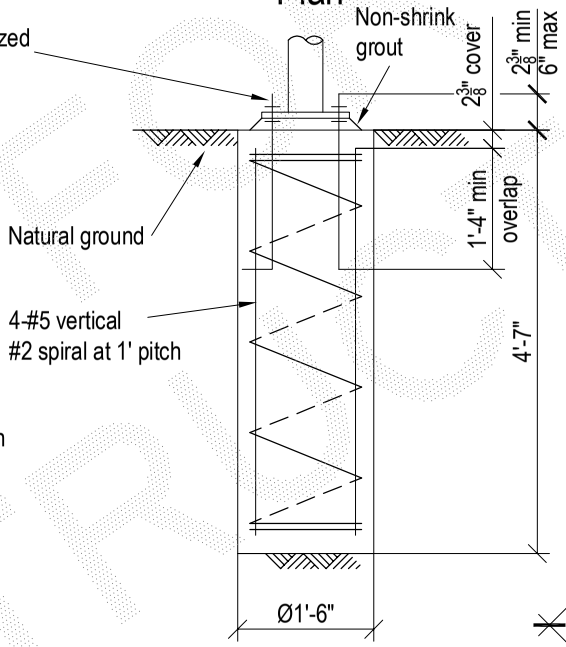


Elevation

LS38 - Pad Footing



Plan



Elevation

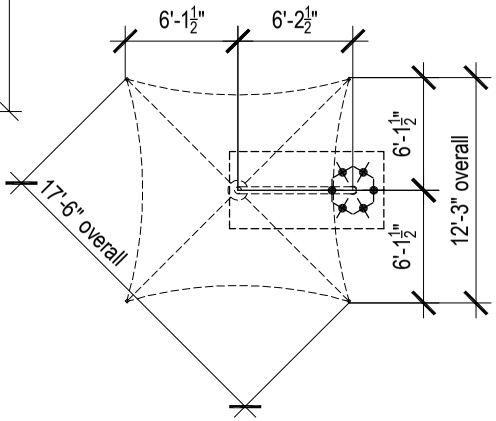
LS38 - Pier Footing

Notes:
Designed to 90mph, Exp B

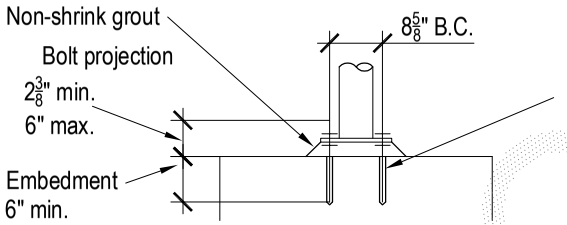
Assumed soil conditions:
Pad - bearing capacity 14.5 psf
Pier - cu=7.25 psf (stiff clay)

Minimum $2\frac{3}{8}$" cover to all reinforcement
Concrete strength - f'c 3600 psi
$\frac{3}{4}$" aggregate size
Slump $2\frac{1}{2}$"

Anchor bolt location tolerances per Australian Standard AS 4800-1998
- 3mm for anchor bolt centers within an anchor bolt group.
- 6mm for adjacent anchor bolt group centers.
- Maximum accumulation of 6mm per 30m not to exceed a total of 25mm.
- 6mm from anchor bolt group center to column line center.



H.D. Bolt Layout Plan
Not to scale



6- $\frac{3}{4}$" H.D. bolts to be threaded rod F1554 Gr. 36 hot dipped galvanized, or stainless steel Gr.316. Supplied with nuts, washers and leveling nuts.
Chemical anchors, on $8\frac{5}{8}$" B.C., to be **Ramset Reo 502 (or 'Hilti HIT-RE 500')**, or engineer approved equivalent, and to be installed in accordance with the manufacturer's instructions.

Chemical Anchor Detail

Leva Model LS38
Architectural Umbrellas

Birdair Inc. | Footing Detail | FD-LS38-08.10

www.birdairumbrellas.com
sales@birdairumbrellas.com