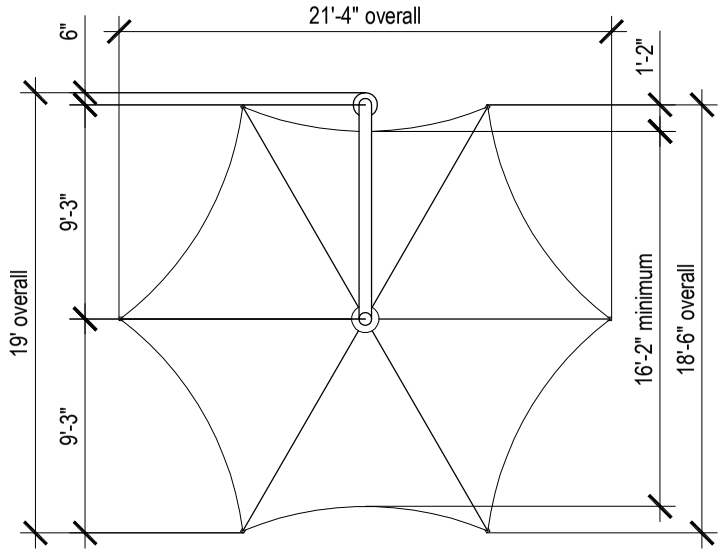
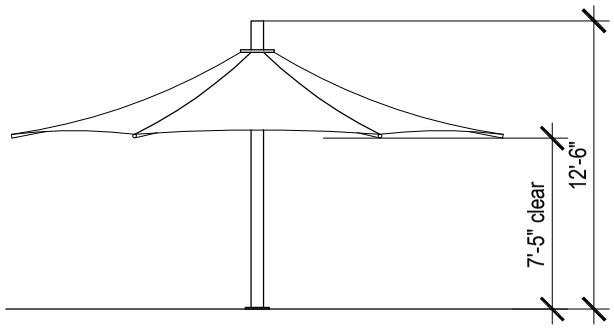
LEVA HEXAGONAL 18'-6" - LH57
Designed to 90mph, Exp B
Rated when umbrella is fully erected.
Umbrella weight: 287 lb
Boom weight: 518 lb

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".

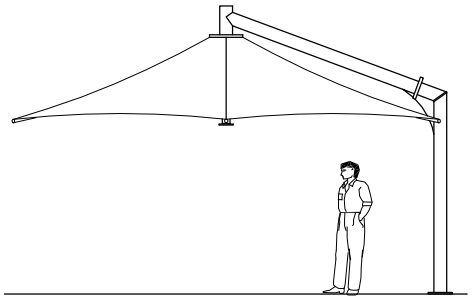
Note : The umbrellas must be closed and tied before wind speeds reach gusts of 60mph (100km/h) Refer note on Specification - Umbrella Design.



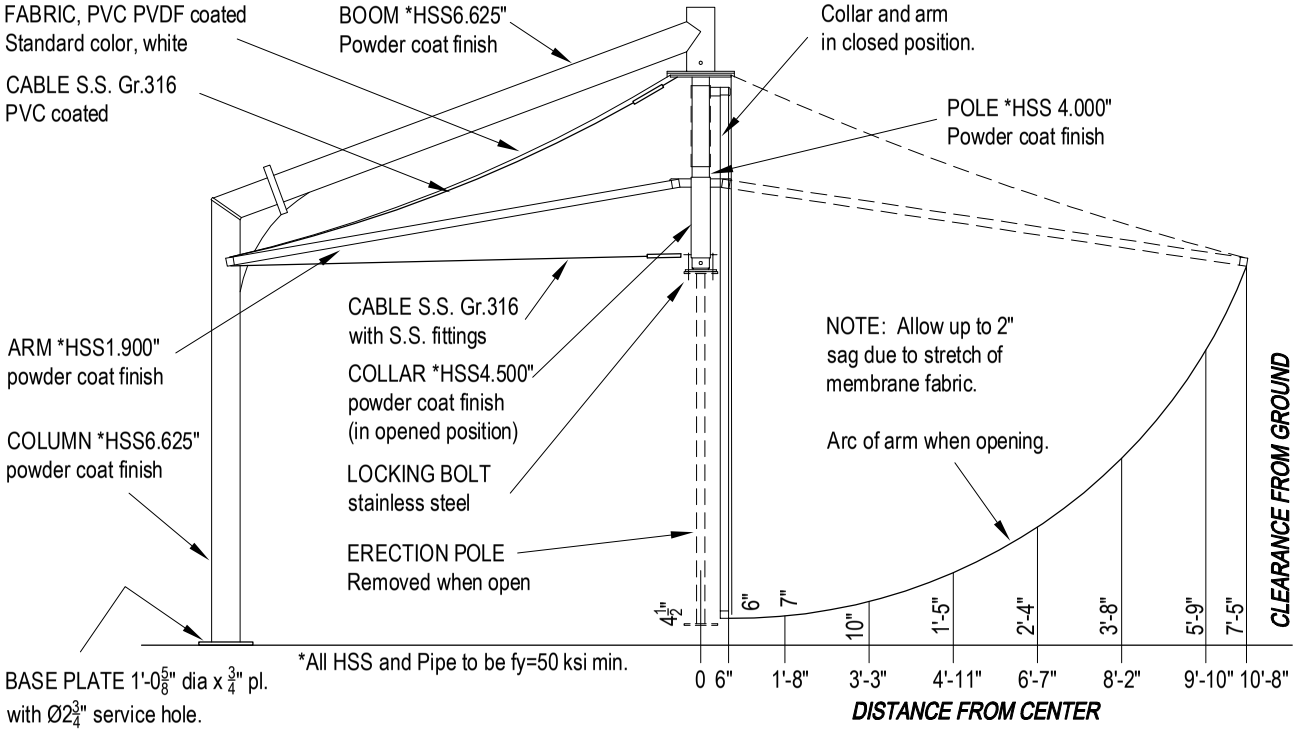
Plan



Elevation



Side Elevation

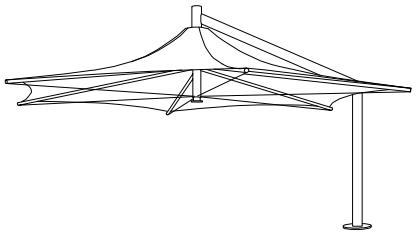


BASE PLATE 1'-0 5/8" dia x 3/4" pl.
with Ø2 3/4" service hole.
8- 3/4" hold down bolts on 9 7/8" B.C.
F1554 Gr. 36 galvanized or stainless steel Gr.316.
With dome nuts and leveling nuts.

OPENED POSITION
View square to boom

CLOSED POSITION
View square to arm

18'-6" Side Support Hexagonal Umbrella - Leva - Model LH57



Figured dimensions take precedence. Do not scale.

Birdair Inc.

Leva Model LH57
Architectural Umbrellas

Engineering Framing EF-LH57-07.10

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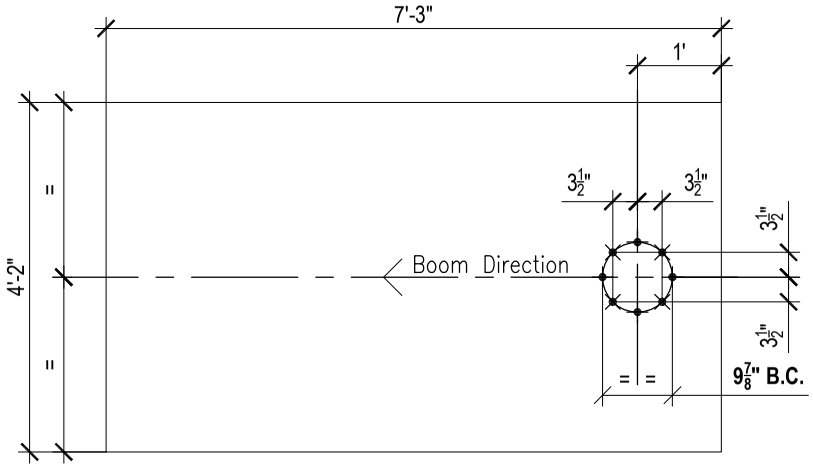
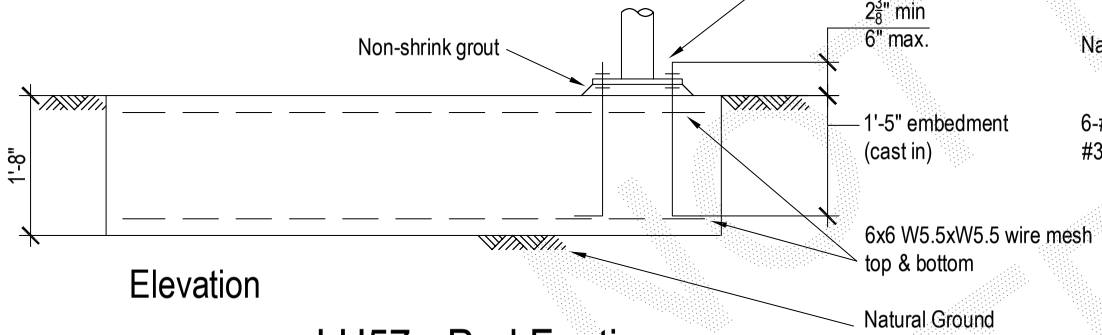
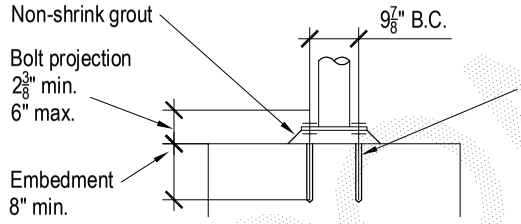


Plan



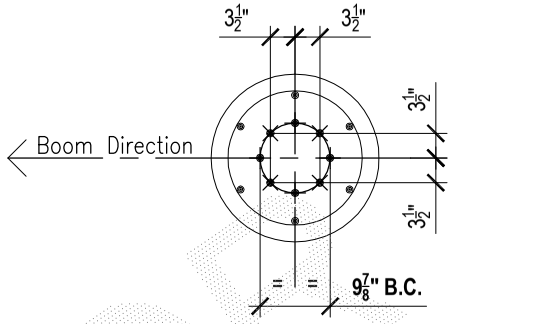
Elevation

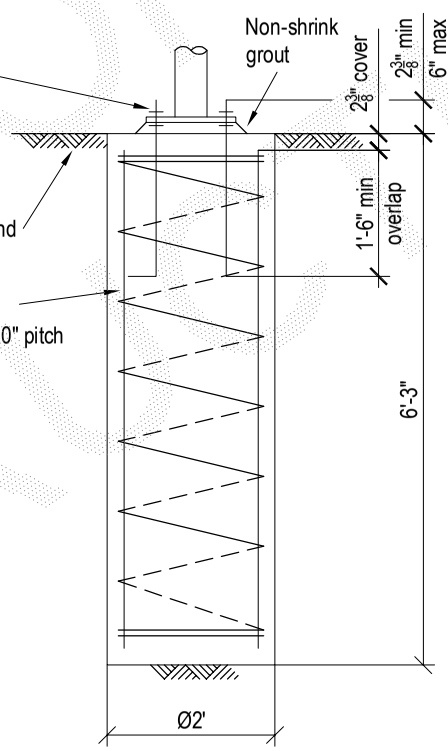
LH57 - Pad Footing



8-$\frac{3}{4}$" H.D. bolts to be threaded rod grade F1554 Gr. 36 hot dipped galvanized, or stainless steel Gr.316. Supplied with nuts, washers and leveling nuts. Chemical anchors, on $9\frac{7}{8}$" 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





Elevation

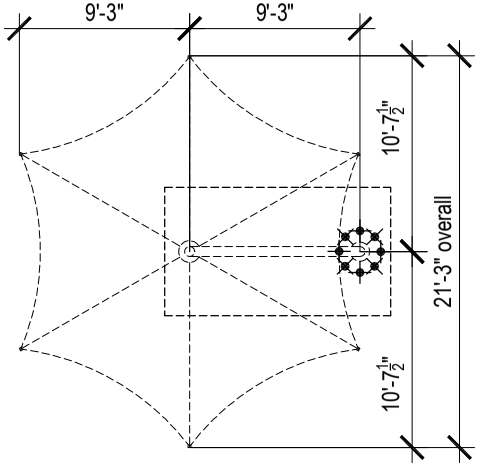
LH57 - Pier Footing

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

Leva Model LH57
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Footing Detail FD-LH57-08.10

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