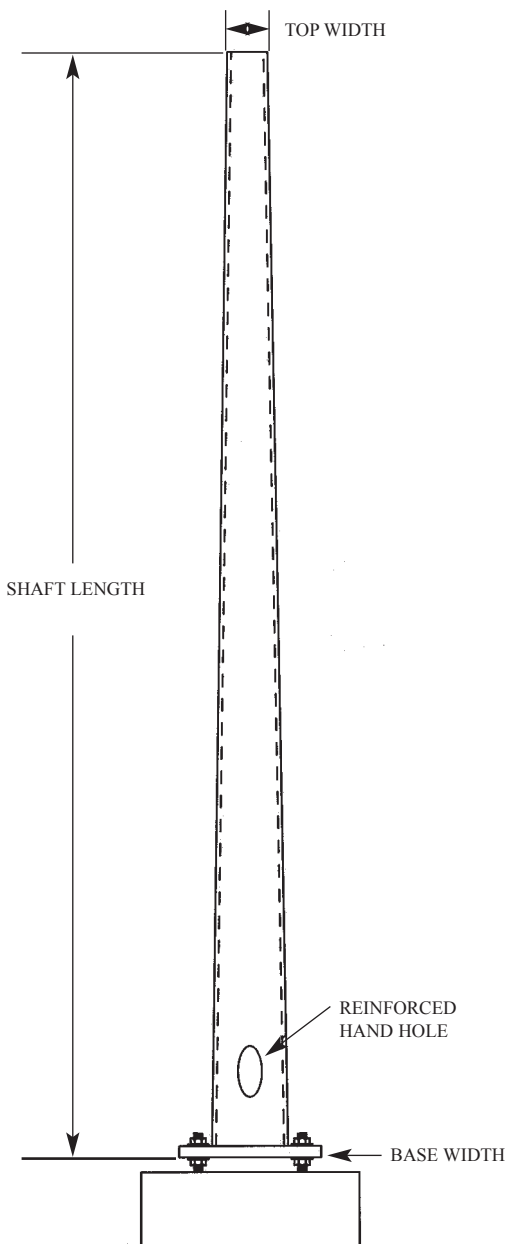


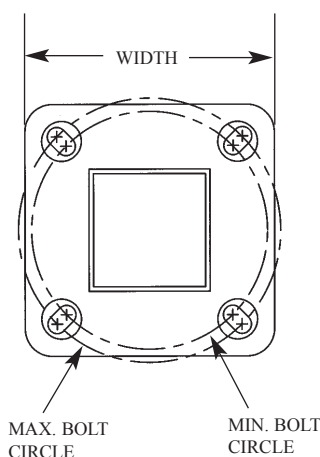
STEEL SQUARE TAPERED



STEEL ARM

SEE STEEL ARM SECTION

ANCHOR BASE DATA



STRUCTURAL DESIGN

Steel poles are designed for the combined effects of both wind and dead load. The wind load effects have been analyzed with wind velocities ranging from 70 to 120 mph plus a 1.3 gust factor. Due to varying wind effects, height correction factors and drag coefficients have been applied to the entire structure. The dead load effects have been determined by using a final deflected position analysis to account for secondary moments caused by eccentric dead loads.

MATERIALS

All Steel pole shafts are made from a single ply steel sheet. This sheet is formed into a tubular shape with one or more longitudinal welds, no weld splices are permitted. This tubular shape has a cross section which is either round or square and is either tapered or non tapered along its length. Standard taper rates include 0.11 inches per foot for square poles and 0.14 inches per foot for round poles. Materials used for the pole shafts meets the requirements of ASTM A500 Grade-C, ASTM A595 Grade A, or ASTM A-572 GR. 65. Poles which exceed 50 feet in length, are designed as two-piece assemblies. These two-piece assemblies are joined together telescoping the upper female section over the lower male section by a minimum lap distance of 1.5 times the female inside diameter. The longitudinally weld seam on the female section is welded both inside and out to insure 100% weld penetration at the telescoped area. Pole assemblies, which exceed 50 feet in height, are also designed with an internal cable guide and strain relief mechanism, which is typically attached at the mid-height of the pole assembly.

BASE PLATE

The anchor base plate is integrally welded to the bottom pole section of all anchor base assemblies with either a telescopic weld or a full penetration weld with a back up bar. The material used for these plates will conform to either ASTM A36 or ASTM A572

FINISH

Each lighting standard is hot dip galvanized or painted. All paint is applied by either powder coat or wet spray process.

SEQUOIA LIGHTING

CORPORATION

MANUFACTURERS OF QUALITY LIGHTING PRODUCTS

ORDERING LOGIC

Square Tapered (Anchor Base)										
Catalog Number	Gross Weight (Lbs)	STRUCTURE DATA								
		Pole Shaft Data					Base Plate Data			Anchor Bolt Data
		Section	Base O.D. (in)	Top O.D. (in)	Wall Thick (in)	Shaft Length (ft)	Bolt Circle Range (in)	Plate O.D. (in)	Plate Thk. (in)	Dia x Lgth x Hk
SL-STSP-20-53-E2-AB	164	Base	5.3	3.1	.1196	20	10-11	11.00	1.00	.75 x 30 x 3
SL-STSP-25-61-E2-AB	232	Base	6.1	3.4	.1196	25	12-13	13.00	1.00	.75 x 30 x 3
SL-STSP-30-66-E2-AB	276	Base	6.6	3.3	.1196	30	11.5-12.5	12.50	1.00	1 x 36 x 4
SL-STSP-30-72-N2-AB	451	Base	7.2	3.9	.1793	30	13.5-14.5	14.50	1.00	1 x 36 x 4
SL-STSP-35-72-E2-AB	349	Base	7.2	3.4	.1196	35	13.5-14.5	14.50	1.00	1 x 36 x 4
SL-STSP-35-72-N2-AB	495	Base	7.2	3.4	.1793	35	13.5-14.5	14.50	1.00	1 x 36 x 4
SL-STSP-40-75-E2-AB	401	Base	7.5	3.1	.1196	40	14.5-15.5	15.50	1.00	1 x 36 x 4
SL-STSP-40-75-N2-AB	569	Base	7.5	3.1	.1793	40	14.5-15.5	15.50	1.00	1 x 36 x 4
SL-STSP-45-85-E2-AB	495	Base	8.5	3.6	.1196	45	14.5-15.5	15.50	1.00	1 x 36 x 4
SL-STSP-45-85-N2-AB	710	Base	8.5	3.6	.1793	45	14.5-15.5	15.50	1.00	1.25 x 42 x 6

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