



Landa and Associates, Inc

PO BOX 1030, West Fork, AR 72774



Structural Type: Monopole 18 sided tapered design

Material Type: A572 Steel

Site Name: Grapevine

Design Criteria:

Height: 200 ft Top of the pole

Design Specification(s): TIA/EIA-222-REV-G

Wind & Ice Load: Tower is located in Tarrant County, TX.

Tower designed for Exposure C to the TIA-222-G Standard.

Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.

Tower is also designed for a 30 mph basic wind with 0.75 in ice.

Ice is considered to increase in thickness with height

Deflection are based upon a 60 mph wind. TOWER RATING: 99.5%

Design Loading:

Elevation C/L Lines at: 200, 180, 160, and 140 ft.

Antenna Model or Dimension: (12) Antel BSA-185090/12 w/ mount pipe per elevation.

Microwaves: N/A

Coax Lines: (12) 1-5/8" coax at per elevation.

Mounts: (1) 12' Low Profile Platform per elevation.

Design Features:

Galvanizing: All steel components will be hot dipped galvanized in accordance with ASTM A 123

Climbing Device: Step bolts from 10' above the base to the top of the monopole.

Safety Climb: Cable type safety climb with wire rope grab (excludes harness).

Lightning Rod: One (1) 5/8" x 8' copper clad lightning rod.

Coax Ports:

•Entrance: 6" x 12" : 12 total

•Exit: 9" x 24" : 4 total **Please specify location at time of order.**

Grounding materials: Two copper buss bars, copper clad ground rods and No. 2 tinned ground wire

Anchor Steel: Includes galvanized base bolts and nuts, as well as template and embedment plate

Tower Drawings: Five sets of state sealed tower and **(1) Type of foundation drawings, CAISSON OR MATT** are included in price of the pole.

Quote

Total Materials Price (excluding freight and taxes) \$ 35,788.00

Note: Mounts are not included in the pole price.

Lead Time: Structure will be shipped (4) to (5) weeks after receipt of order and received all the information necessary for the structure fabrication and installation. Sealed drawings will be delivered (3) to (4) days after receipt of purchase order and soil reports. Anchor steel will be available 14 days after receipt of P.O.

Options:

Band-on mount: Band-on mount 12 ft mount. Includes collar band assembly, (12) \$ 3,510.00 antenna support posts and hardware

Band-on mount: Band-on mount 12 ft mount. Includes collar band assembly, (12) \$ 3,900.00 antenna support posts and hardware **(FOR DIAMETERS 31"-60")**

T-arm mount: Three sector mount with 12 ft face. Includes, (3) 3ft stand off arms, \$ 2,940.00 (12) antenna support posts and installation hardware

T-arm mount: Three sector mount with 12 ft face. Includes, (3) 3ft stand off arms, \$ 3,330.00 (12) antenna support posts and installation hardware **(FOR DIAMETERS 31"-60")**

Ice Bridge: One (1) 2' X 10' coax bridge with support posts and hardware \$ 712.00

Sealed drawings: Additional set of sealed drawings 8.5" x 11" \$ 75.00

Freight Estimate: Tarrant County, TX \$ 1,500.00 Cost Per Truck

Pre-shipment: Bolts and templates to Tarrant County, TX. \$ 350.00 Total Freight Cost

Note: Due to the volatility of steel and freight costs, all items are subject to price increase or decrease through shipment time.

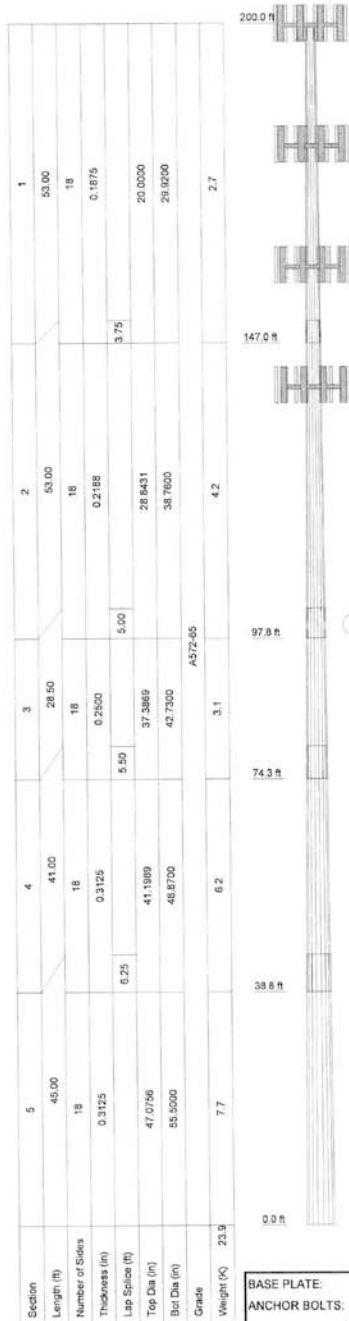
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DESIGNED APPURTENANCE LOADING

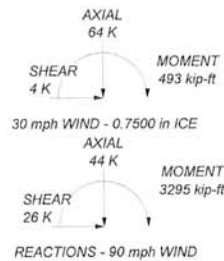
TYPE	ELEVATION	TYPE	ELEVATION
(4) Antel BSA-185090/12 w/Mount Pipe	200	(4) Antel BSA-185090/12 w/Mount Pipe	160
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(4) Antel BSA-185090/12 w/Mount Pipe	200	(4) Antel BSA-185090/12 w/Mount Pipe	150
12' Low Profile Platform (MT-196)	200	12' Low Profile Platform (MT-196)	160
(4) Antel BSA-185090/12 w/Mount Pipe	180	(4) Antel BSA-185090/12 w/Mount Pipe	140
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12' Low Profile Platform (MT-196)	180	12' Low Profile Platform (MT-196)	140

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

- ### TOWER DESIGN NOTES
1. Tower is located in Tarrant County, Texas.
 2. Tower designed for Exposure C to the TIA-222-G Standard.
 3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
 4. Tower is also designed for a 30 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
 5. Deflections are based upon a 60 mph wind.
 6. TOWER RATING: 99.5%

**Preliminary Design
Not For Fabrication**



BASE PLATE: 2' x 68.5" ROUND (60 KSI)
ANCHOR BOLTS: (10) ANCHORS ON 62.5" B.C
2.25 in. A615 GR. 75 X 7'-0" LONG

ANSI/TIA-222-G CLASSIFICATION	
EXPOSURE CATEGORY	C
STRUCTURE CLASS	II
TOPOGRAPHY CATEGORY	1
CREST HEIGHT	

LANDA MONOPOLES

