

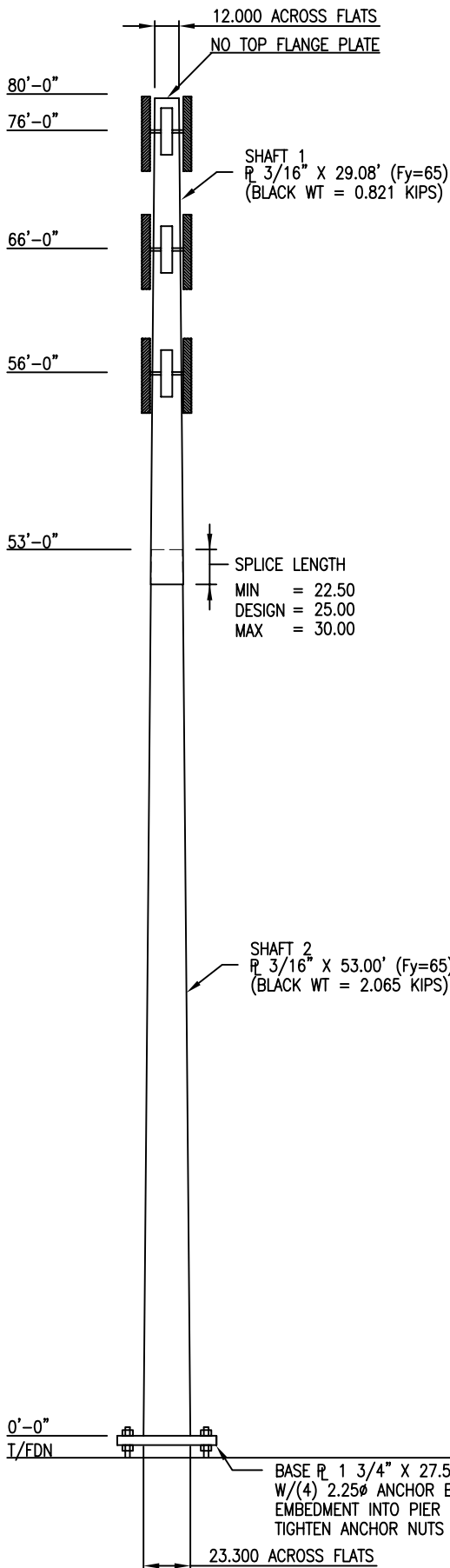


**APPROXIMATE WEIGHT OF GALVANIZED POLE SHAFTS (LBS)**

TOP PLATE + SHAFT 1	1050	NOTE: WEIGHTS SHOWN DO NOT INCLUDE ANY ATTACHMENTS, MOUNTS, PLATFORMS, HANDHOLES, ETC. FIELD VERIFY WEIGHTS PRIOR TO LIFTING.
BASE PLATE + SHAFT 2	3050	
<b>APPROXIMATE TOTAL</b>	<b>4100</b>	

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J O B D A T A		
Page 1 of 1	Job No.	J030814002
By TWL	Design No.	M03-0591-A
Chk'd By	Date	7/17/2003 7:18:58 AM
	Rev. No.	Rev. Date
Pole	80-FT MONOPOLE	
Site	UTO316 CEDAR PASS, UT	
Owner	NEXTEL COMMUNICATIONS	
Ref. No.		
Design	ACCORDING TO TIA/EIA-222-F 1996	



**FINAL DESIGN - FOR FABRICATION**

L O A D C A S E S	
CASE 1	70 MPH WITH 1/2" RADIAL ICE WIND W/ SIMULTANEOUS ICE OPERATIONAL WIND
CASE 2	50 MPH WITH NO ICE

P O L E S P E C I F I C A T I O N S	
Pole Shape Type:	18-SIDED POLYGON
Taper:	0.145938 IN/FT
* Shaft Steel:	ASTM A572 GRADE 65
* Base PL Steel:	ASTM A633 GR. E (60 KSI)
* Anchor Bolts:	2 1/4" x 7'-0 LONG #18J ASTM A615 GRADE 75

\* SHALL MEET CHARPY V-NOTCH TEST: 15 FT.LBS @ -20°F

A N T E N N A L I S T		
No.	Elev.	Description
-	TOP	3/4" LIGHTNING ROD
1-3	76.00	(3) 8' X 1' X 4" PANEL ANTENNA
-	76.00	(3) ANTENNA CLOSE CONTACT MOUNT
4-6	66.00	(3) 8' X 1' X 4" PANEL ANTENNA
-	66.00	(3) ANTENNA CLOSE CONTACT MOUNT
7-9	56.00	(3) 8' X 1' X 4" PANEL ANTENNA
-	56.00	(3) ANTENNA CLOSE CONTACT MOUNT

STEP BOLTS FULL HEIGHT FROM 9'-6 ABOVE BASE PLATE.  
 ANTENNA FEED LINES RUN INSIDE OF POLE.

Elevation	70 MPH WIND		50 MPH WIND	
	Lateral Deflection (Inches)	Rotation (sway) (degrees)	Lateral Deflection (Inches)	Rotation (sway) (degrees)
TOP	62.5	5.765	28.7	2.655

S H A F T S E C T I O N D A T A					
Shaft Section	Section Length (feet)	Plate Thickness (in.)	Lap Splice (in.)	Diameter Across Flats (inches)	
				@ Top	@ Bottom
1	29.08	0.1875	25.00	12.000	16.244
2	53.00	0.1875		15.565	23.300

NOTE: DIMENSIONS SHOWN DO NOT INCLUDE GALVANIZING TOLERANCES

**UNFACTORED BASE REACTIONS**

MOMENT =	333 ft-kips
SHEAR =	5.6 kips
AXIAL =	5.9 kips
EST. SHAFT + BASE PL WT. =	3.3 kips (BLACK WEIGHT)