



DESIGN LOADING		
DESIGN WIND LOAD PER ANSI/TIA/EIA-222-F-1996, 85.0 MPH BASIC WIND SPEED (FASTEST-MILE) (0.5" RADIAL ICE LOAD). THIS POLE IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		
ELEVATION (FT)	ANTENNA TYPE	LINE SIZE
97.0	(9)RR65-19 ON 12' PLATFORM W/ HAND-RAILS	(9)7/8 in.
87.0	(12)RR65-19 ON 12' PLATFORM W/ HAND-RAILS	(12)7/8 in.
77.0	(12)RR65-19 ON 12' PLATFORM W/ HAND-RAILS	(12)7/8 in.
67.0	(2)6' HP DISHES (0) [180] DEGREES	(2)EW63

SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON STRUCTURE.

GENERAL NOTES

1. ROHN COMMUNICATION POLE DESIGNS CONFORM TO ANSI/TIA/EIA-222-F UNLESS OTHERWISE SPECIFIED UNDER POLE DESIGN LOADING.
2. THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA/EIA-222-F AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
3. ANTENNAS AND LINES LISTED IN POLE DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
4. POLE MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE POLE.
5. WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
6. FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
7. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A-325, EXCEPT WHERE NOTED
8. A NUT LOCKING DEVICE SHALL BE PROVIDED FOR ALL STRUCTURAL BOLTS ON THE POLE.
9. STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA/EIA-222-F.
10. ALL HIGH STRENGTH BOLTS ARE TO BE TIGHTENED TO A "SNUGTIGHT" CONDITION AS DEFINED IN THE NOVEMBER 13, 1985, AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
11. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
12. TOLERANCE ON POLE STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
13. DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F.
14. DESIGN ASSUMES LEVEL GRADE AT POLE SITE.
15. FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.
16. DESIGN ASSUMES ALL PANEL ANTENNAS WITH MOUNTING FRAMES ARE MOUNTED SYMMETRICALLY.
17. DESIGN ASSUMES ALL TRANSMISSION LINES ARE ROUTED INTERNALLY.
18. POLE SHAFT CONFORMS TO ASTM A572 GRADE 65. POLE BASE PLATE STEEL CONFORMS TO ASTM A572 GRADE 50. POLE ANCHOR BOLTS CONFORM TO ASTM A615 GRADE 75.

SECTION SCHEDULE					
SEC.	HEIGHT (FT)	DIAMETER (IN)		WALL THICK. (IN)	Fy (KSI)
		BOT.	TOP		
1	29.58	23.945	18.000	0.1875	65.0
2	29.00	28.684	22.856	0.2500	65.0
3	48.00	37.000	27.354	0.2500	65.0

FOR POLYGONAL POLES DIAMETER IS MEASURED ACROSS FLATS.

SITE: SE-2113B, JUNEAU & W MARGINAL COUNTY: KING, WA

MAXIMUM REACTIONS	
DOWNLOAD =	22.5 KIPS
SHEAR =	14.3 KIPS
O.T.M =	1026.1 FT.-KIPS

No.	Revision Description	Date	Rev By	Ckd By	Appd By
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Scale: NONE			By	Date	
Drawn:	BNP	5/22/2002			
Checked:	IA	5/23/02			
App. Eng.:	TS	5/23/02			
Parent File:					
100' TAPERED STEEL POLE DESIGN FOR VOICESTREAM WIRELESS			ENG. FILE: 51943JA		
DWG. NO.: A021052			SHEET 1 OF 1		
					REV.