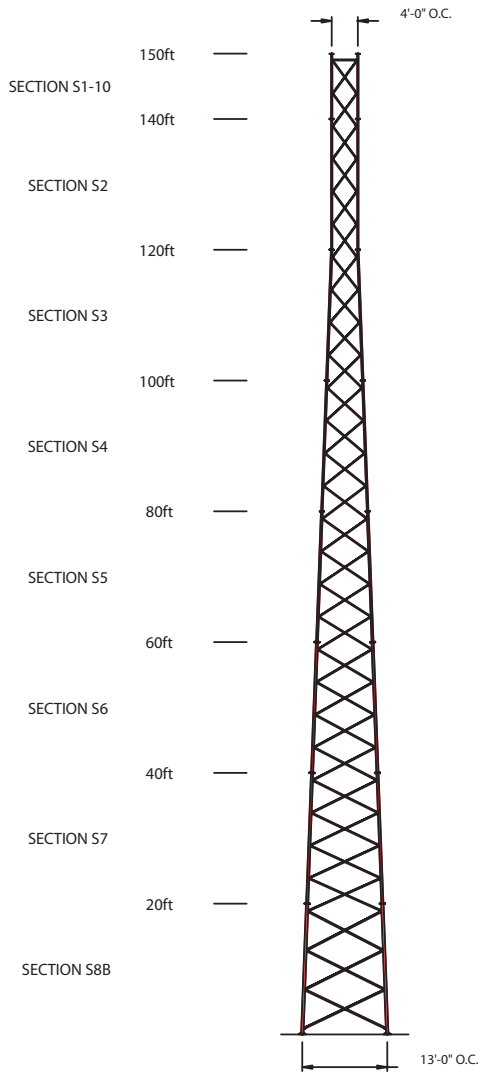
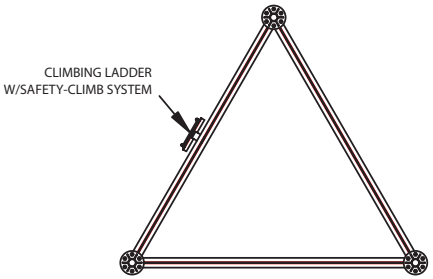
LEGS	5" SCH 80 PIPE	4" SCH 80 PIPE	3-1/2" SCH 80 PIPE	3" SCH 80 PIPE	2-1/2" SCH 80 PIPE	2-1/2" SCH 40 PIPE	A	A53, Gr. B (50ksi)
DIAGONALS	2-1/2x2-1/2x3/16 L	2 x 2 x 3/16 L	2 x 2 x 1/8 L	1-3/4 x 1-3/4 x 1/8 L				A36 (36ksi)
HORIZONTALS	NONE						B	A36 (36ksi)
BRACE BOLTS	(1) 3/4"Ø BOLT	(1) 5/8"Ø BOLT PER CONNECTION		(1) 1/2"Ø BOLT PER CONNECTION				ASTM-A325
LEG-SPLICE BOLTS	(6) 1"Ø/LEG	(6) 1"Ø/LEG	(6) 3/4"Ø/LEG	(6) 5/8"Ø BLTS PER LEG				ASTM-A325

A = 2" SCH 40 PIPE
B = 1-3/4" x 1-3/4" x 1/8" L, @ TOP ONLY



ELEVATION



PLAN VIEW
SCALE = 1:72

BASE REACTIONS:
TOTAL SHEAR = 25kips
AXIAL LOAD = 17kips
UPLIFT/LEG = 165kips
COMPRESSION/LEG = 176kips
OVERTURN MOMENT = 1913 ft-kips

LET	REVISION	DATE	APP'D
-	INITIAL RELEASE	12/28/04	D.S.

NOTES:

1. TOWER IS DESIGNED TO CONFORM TO THE REQUIREMENTS OF EIA/TIA-222-F-1996, WITH CONSIDERATIONS OF 100mph WIND VELOCITY AND 1/2" RADIAL ICE, CONCURRENTLY.
2. TOWER LOADING CRITERIA IS AS FOLLOWS:
   A. 35sq. ft., 240lbs. ANTENNA AT THE 150ft TOWER ELEVATION, WITH (2) 7/8" FEEDLINES
   B. OSHA COMPLIANT EXTERNAL CLIMBING LADDER WITH SAFETY-CLIMB SYSTEM
   C. TOWER LIGHTNING PROTECTION/GROUNDING KIT
3. ALL STRUCTURAL STEEL PIPE LEG MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A53, GRADE B (50ksi YIELD STRENGTH MATERIAL); ALL ADDITIONAL STRUCTURAL STEEL PLATES, BARS, RODS, ANGLES, SHAPES, ETC., SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A36 (36ksi YIELD STRENGTH MATERIAL).
4. ALL STRUCTURAL STEEL TOWER MEMBERS SHALL BE HOT-DIPPED GALVANIZED, AFTER FABRICATION, AND CONFORM TO THE REQUIREMENTS OF ASTM-A123.
5. ALL BOLTS AND BOLTED CONNECTIONS SHALL BE HOT-DIPPED GALVANIZED AND CONFORM TO THE REQUIREMENTS OF ASTM-A325.
6. ALL WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY: A.W.S. D1.1-96.
7. CUSTOM DESIGNS ARE AVAILABLE. PLEASE CONTACT THIS OFFICE FOR FURTHER DETAILS.
8. AS SITE & SOIL CONDITIONS MAY VARY, FOUNDATION DESIGN SHOULD BE DETERMINED ON A BY-SITE BASIS. IT IS STRONGLY RECOMMENDED THAT SOIL COMPOSITION TESTS BE PERFORMED PRIOR TO TOWER PURCHASE.

SWAGER COMMUNICATIONS INC.
FREMONT, INDIANA 46737

STANDARD DRAWING	SCALE 1:240	DWN J.NEFF
		APP'D D.SWAGER

TITLE
MODEL: PA9L-150SS
150ft TOWER ELEVATION

DATE	DRAWING NUMBER
12/28/04	PA9L-150-01