FREESTANDING ALUMINUM TOWER
MODEL #4-50

TOTAL WEIGHT: 97 LBS.

WIND LOADING:

80 mph  3.5 Sq. Ft.
100 mph  1.5 Sq. Ft.

Contact Universal Towers to confirm geographical location of your tower and all wind load implications.

WARRANTY
UNIVERSAL TOWERS ARE WARRANTED AGAINST DEFECTIVE MATERIAL OR WORKMANSHIP AND ARE SUBJECT TO REPAIR OR TO MATERIAL REPLACEMENT ONLY IF FAILURE RESULTS FROM THESE FACTORS WITHIN ONE YEAR FROM PURCHASE BY USER. THIS WARRANTY DOES NOT EXTEND TO ANY OF OUR PRODUCTS WHICH HAVE BEEN SUBJECTED TO MISUSE, NEGLECT, ACCIDENT, IMPROPER INSTALLATION OR APPLICATION, NOR SHALL IT EXTEND TO UNITS WHICH HAVE BEEN REPAIRED OR SUBSTANTIALLY ALTERED OUTSIDE OF OUR FACTORY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.

ELEVATION
SCALE: 1/8"=1'-0"

ISOMETRIC
SCALE: N.T.S.

ALUMINUM TOWER

UNIVERSAL TOWERS
43900 GROESBECK HWY.
CLINTON TOWNSHIP, MI 48036
PH: (586) 463-2560
FAX: (586) 463-2564

JOB NO.: 4-50
1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

3/8" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.

1"x0.065 WALL ALUMINUM TUBE

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 0.85" DIA. 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

6 EQUAL SPACES AT 18" EACH = 7'-6"

10'-0"

2'-1"

TAPER

1/2" MIN.

10 1/4"

5 1/2"

10 1/4 CC

9 1/2 CC WEBS

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

TOP SECTION

UNIVERSAL TOWERS
A DIVISION OF
UNIVERSAL MANUFACTURING CORP.
43900 GROEBECK HWY.
CLINTON TOWNSHIP, MI 48036
PH: (586) 463-2560
FAX: (586) 463-2964

JOB NO.:

COMPONENT:

11-TOP
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

3¼" DIA. ALUMINUM BARS - BENT AS SHOWN - 1¼" R. MIN.

1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 0.85" DIA. 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"

TAPERED SECTION
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

3¼" DIA. ALUMINUM BARS - BENT AS SHOWN - 1¼" R. MIN.

1"x0.065 WALL ALUMINUM TUBE

SWAGE 3" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 0.85" DIA. 0.035" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"
1/4" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/4" R. MIN.

1/4" x 0.083 WALL ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1" DIA. 0.065" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

1 1/2" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

3 1/16" DIA. ALUMINUM BARS - BENT AS SHOWN - 1/2" R. MIN.

¾" x 0.083 WALL ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1" DIA. 0.065" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

ISOMETRIC
SCALE: N.T.S.

ELEVATION
SCALE: 1/2"=1'-0"

PLAN VIEW
SCALE: 1/2"=1'-0"
HINGED CONNECTION ASSEMBLY - REFER TO ENLARGED DETAIL BELOW

3" DIA. WASHER ANCHORAGE

1\frac{1}{4}" STEEL TUBES 0.083" WALL - 48" LONG

OUTLINE OF CONCRETE FOOTING

PLAN VIEW
SCALE: 1/2"=1'-0"

ISOMETRIC
SCALE: N.T.S.

SEE ENLARGED DETAIL - THIS SHEET

1\frac{1}{4}" STEEL SLEEVE - 0.083 WALL

TWO (2) 3/8" THRU-HOLES PERPENDICULAR TO EACH OTHER

TWO (2) 3/8" GRADE 5 BOLTS

ELEVATION
SCALE: 1/2"=1'-0"

NOTE: FOUNDATIONS ARE DESIGNED FOR FIRM BEARING SOIL.

BASE FOOTING

UNIVERSAL TOWERS
UNIVERSAL MANUFACTURING CORP.
43900 GROSEBECK HWY.
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FAX: (586) 463-2964

JOB NO.: B-18