FREESTANDING ALUMINUM TOWER
MODEL #21-30

TOTAL WEIGHT: 77 LBS.

WIND LOADING:

80 mph    21.0 Sq. Ft.
100 mph    15.0 Sq. Ft.
110 mph    11.5 Sq. Ft.

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

ELEVATION
SCALE: 3/16"=1'-0"

ISOMETRIC
SCALE: N.T.S.

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, NEGLIGENT, 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.

UNIVERSAL TOWERS
A MEMBER OF UNIVERSAL MANUFACTURING CORP.
49900 GROSSBECK HWY.
CLINTON TOWNSHIP, MI 48038
PH: (313) 463-2367
FAX: (313) 463-2364

COMPONENT:
21-30
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.

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

6 EQUAL SPACES AT 1'8" EACH = 7'-6"

1'-1/4"

1'-0"

2'-1"

8'-0"

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

1½" DIA. ALUMINUM BARS - BENT AS SHOWN - 1½" R. MIN.

1½"x0.083 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

TAPERED SECTION

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

PLAN VIEW
SCALE: 1/2"=1'-0"
1½" MIN. LENGTH ARGON GAS 'MIG' WELD (TYP.)

½" DIA. ALUMINUM BARS - BENT AS SHOWN - ½" R. MIN.

1¾" x 1.300" I.D. ALUMINUM TUBE

SWAGE 3.26" OF BOTTOM ENDS OF ALL THREE TUBES AND INSERT A 9" LONG SECTION OF ALUM. TUBE 1.25" DIA. 0.083" WALL FOR CONNECTION TO ADJACENT TOWER SECTION OR BASE

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

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

1½" x 1½" x 10" L ANCHORAGE

1½" T.S. 0.10" WALL - 48" LONG

OUTLINE OF CONCRETE FOOTING

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

ISOMETRIC
SCALE: N.T.S.

SEE ENLARGED DETAIL - THIS SHEET

1½" x 1.300" I.D. STEEL TUBE

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

TWO (2) 3/8" GRADE 5 BOLTS

BASE FOOTING

NOTE: FOUNDATIONS ARE DESIGNED FOR FIRM BEARING SOIL.