

Case No. BZA 74-84 - Kenneth R. Stanislaus - requests a variance to permit the increase in the height of a wind generating unit from 45' to 80' and to permit the location within 15' of one side property line on property zoned the "A" Two-family Dwelling District and

POSTED  
10-23-84 G.E.L.

ACTION

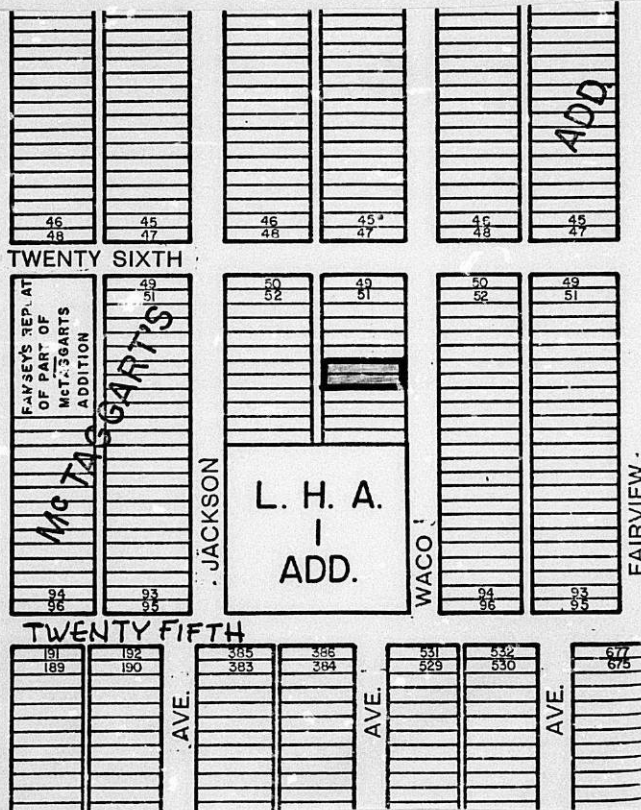
B.Z.A. 7484 Denied Y-O 11-27-84  
DATE

Map No. 5450 A

BZA 74-84  
led \_\_\_\_\_

AREA DATA:

1. Acres: \_\_\_\_\_ ( \_\_\_\_\_ ft. by \_\_\_\_\_ ft.)
2. Adjoining Zoning: E A S A W A N A
3. Land Use: East Res South Res  
West Res North Res
4. Area (is) (~~is not~~) platted.



LOS ANGELES COUNTY  
REGISTERED  
McTAGGARTS GROVE, CA  
U S A

Standard  
No. 2153C

**MICROFILMED**  
**FROM THE BEST**  
**AVAILABLE COPY**

W L KORBER R G WAYMIRE  
**BAUGHMAN CO.**  
SURVEYORS

PHONE 316/262.7271

330 LAURA

WICHITA, KANSAS 67211

State of Kansas )  
                  ) SS  
County of Sedgwick)

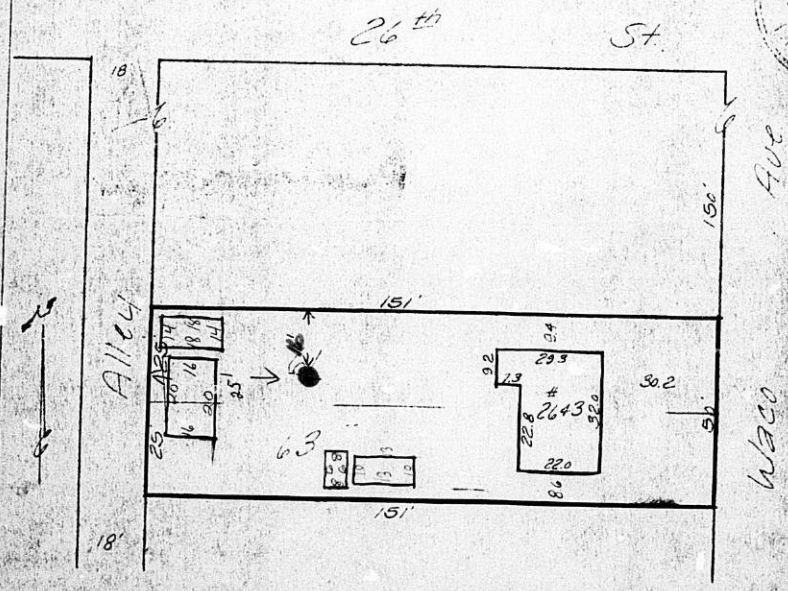
July 5, 1974

    , Baughman Company, Surveyors in aforesaid county and state do hereby certify that we did on this 5th day of July, 1974 survey Lots 61 and 63 on Waco in McTaggart's Addition to Wichita, Kansas.

    On said lot is house No. 2643 with no garage which is in the clear of all boundary lines. There are no encroachments on said lot by buildings on the adjacent lots.

    The accompanying plat is a true and correct exhibit of said survey for mortgagee title insurance.

*William Korber*  
Surveyor



November 30, 1984

Kenneth R. Stanislaus  
2643 North Waco  
Wichita, Ks. 67204

Re: BZA 74-84 - Request for Variance

Dear Mr. Stanislaus:

Enclosed is a signed copy of the Resolution adopted by the Board of Zoning Appeals on November 27, 1984.

This Resolution reflects the official action of the Board to deny your request. It is forwarded to you for your information and files.

If you have questions concerning this matter, please call our office.

Sincerely,

Glen E. Lytle  
Assistant Secretary

GEL:sad  
Encl.

cc: Bill Hilderbrand, Box 278, Belle Plaine, Ks. 67013  
Robert Feldner, Superintendent of Central Inspection (2)  
Don Gisick, City Clerk

RESOLUTION NO. BZA 74-84

WHEREAS, Kenneth R. Stanislaus, 2643 North Waco, Wichita, Kansas, requests a variance as provided in Section 2.12.590.B, Code of the City of Wichita, to permit the increase in height of a wind generating unit from 45 feet to 80 feet and to permit the location within 15 feet of one side property line on property zoned the "A" Two-family Dwelling District and legally described as follows:

Lots 61 and 63 on Waco Avenue in McTaggart's Addition to Wichita, Sedgwick County, Kansas. Generally located on the west side of Waco between 25th Street North and 26th Street North (2643 North Waco).

WHEREAS, proper notice as required by ordinance and by the rules of the Board of Zoning Appeals has been given; and

WHEREAS, the Board of Zoning Appeals did, at the meeting of November 27, 1984, consider said application; and

WHEREAS, the Board of Zoning Appeals has proper jurisdiction to consider said request for a variance under the provisions of Section 2.12.590.B, Code of the City of Wichita; and

WHEREAS, the Board of Zoning Appeals has found that the variance arises from such condition which is not unique to the property in question and which is ordinarily found in the same zone or district inasmuch as the property is 50 feet in width as many other properties throughout the City in the "A" Two-family Dwelling District that will not permit the construction of such a tower; and

WHEREAS, the Board of Zoning Appeals has found that the granting of the permit for the variance will adversely affect the rights of adjacent property owners or residents inasmuch as the installation of a wind generating unit could cause disturbance to the neighbors during certain hours of operation; and

WHEREAS, the Board of Zoning Appeals has found that the strict application of the provisions of Title 28 (Zoning Ordinance) of which variance is requested will not constitute unnecessary hardship upon the property owners represented in the application inasmuch as the applicant has access to the present energy source as do others that live on similar size lots; and

WHEREAS, the Board of Zoning Appeals has found that the variance desired will not adversely affect the public health, safety, morals, order, convenience, prosperity or general welfare due to the fact that the installation will not interfere with any right-of-way or easements; and

WHEREAS, the Board of Zoning Appeals has found that the granting of the variance desired will be opposed to the general spirit and intent of Title 28 (Zoning Ordinance) inasmuch as the intent of the regulations is to maintain a setback from the adjacent properties a distance not less than the height of the unit; and

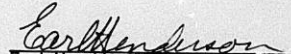
WHEREAS, each of the five conditions required by Section 2.12.590.B, Code of the City of Wichita, to be present before a variance can be granted have not been found to exist.

NOW, THEREFORE, BE IT RESOLVED by the Board of Zoning Appeals of the City of Wichita that this request for a variance to permit the increase in height of a wind generating unit from 45 feet to 80 feet and to permit the location within 15 feet of one side property line on property zoned the "A" Two-family Dwelling District and legally described as follows:

Lots 61 and 63 on Waco Avenue in McTaggart's Addition to Wichita, Sedgwick County, Kansas. Generally located on the west side of Waco between 25th Street North and 26th Street North (2643 North Waco).

be denied.

ADOPTED AT WICHITA, KANSAS, this 27th day of November, 1984.

  
Earl Henderson, President

ATTEST:

  
Glen E. Lytle, Assistant Secretary

THE CITY OF WICHITA

OFFICE OF CITIZEN RIGHTS & SERVICES

DATE November 4, 1984

RECEIVED

NOV 15 1984

TO Glen Lytle, Special Assistant for Zoning

FROM Cindy Entriiken, Administrative Aide III

METROPOLITAN PLANNING

ROUTE  Lytle

SUBJECT BZA 74-84 GENERALLY LOCATED  
ON WEST SIDE OF WACO BETWEEN  
25TH STREET NORTH AND 26TH  
STREET NORTH (2643 NORTH WACO)

On Wednesday, November 7, CPO Council "J" considered the above captioned case.

The Council voted 5-2 to recommend approval, subject to the agreement of the adjoining property owners.

Kenneth Stanislaus, applicant, and Bill Hilderbrand, agent, were present to discuss the case with the Council. There were no area residents present. It should be noted that the Council met prior to area residents receiving their notices.

Please present the Council's recommendation to the Board of Zoning Appeals when it considers the case on November 27.

*Cindy Entriiken*

Cindy Entriiken  
Administrative Aide III

CE/glw

Noted:

*Amie K. Montgomery*  
Amie K. Montgomery  
CRS Director

SECRETARY'S REPORT  
CASE NO. BZA 74-84

APPLICANT: Kenneth R. Stanislaus, 2643 N. Waco, Wichita, Kansas.

AGENT: Bill Hilderbrand, Box 278, Belle Plaine, Kansas.

REQUEST: Variance pursuant to Section 2.12.590.B, Code of the City of Wichita, to permit the increase in height of a wind generating unit from 45 feet to 80 feet and to permit the location within 15 feet of one side property line.

GENERAL LOCATION: On the west side of Waco between 25th and 26th Streets North.

ZONING: Subject property is zoned the "A" Two-family Dwelling District as are all adjacent properties.

LAND USE: Subject property is occupied by a one-family dwelling. All adjacent properties are also residential.

JURISDICTION:

The Board has jurisdiction to consider the variance request under the provisions outlined in Section 2.12.590.B, Code of the City of Wichita. The Board may grant the request when all five conditions as required by the State Statutes are found to exist.

COMMENTS BY THE SECRETARY:

The applicant is requesting a variance to permit the installation of a wind generating unit to a height of 80 feet in lieu of the generally permitted 45 feet. In addition the unit will be located approximately 15 feet from the north property line.

It should be noted that main residential structures are limited to 35 feet in height in the "A" Two-family Dwelling District with accessory structures limited to 60% of that height, or 21 feet. However, Section 28.04.187(11) permits the installation of wind generating structures to a height of 45 feet, provided the structure should not be located closer to a property line than the height of the structure. In this case the height would be limited to 25 feet if located in the center of the property as the total property width is 50 feet.

The applicant's property is located in an older area of the city where there are mature trees that create wind turbulence at the lower level. The recommended height by the manufacturer is to install the generator at a height 30 feet above any obstacle within 200 feet. In this case 80 feet is being requested.

It should be noted that this is the first variance request within the City of Wichita, and the site is so limited in size that the unit cannot be located at least the height of the unit away from any property line. There have been units installed in the City of Wichita, but have been on commercial properties where the height limitations were not a factor. The regulation was written to accommodate such units when they could be installed a sufficient distance from adjacent properties that they would not be objectionable. Any deviation from these strict limitations must be subject to approval of a variance.

In this case, it is difficult to justify any uniqueness to the property as there are thousands of properties within the City that are no more than 50 feet in width. Also there are numerous areas where mature trees would create turbulence at a height as low as 45 feet. What effect these units might have on adjacent property owners is hard to determine as no material has been furnished this office as to the noise level of these units.

UNIQUENESS:

It is the opinion of the Secretary that it is difficult to find that this property has any uniqueness inasmuch as the property is located in a residential area where the majority of properties are of similar size and would not be permitted a tower of this height to install a wind generating unit.

ADJACENT PROPERTY:

It is the opinion of the Secretary that the granting of the variance requested will adversely affect the rights of adjacent property owners inasmuch as the installation of a wind generating unit could cause a noise level that could be annoying during certain hours of operation.

HARDSHIP:

It is the opinion of the Secretary that the strict application of the provisions of the zoning ordinance does not constitute an unnecessary hardship upon the applicant inasmuch as the applicant has access to the present energy source as do others that live on small lots such as this property in the city.

PUBLIC INTEREST:

It is the opinion of the Secretary that the requested variance would not adversely affect the public interest inasmuch as the installation of a wind generating unit at a height of 80 feet will not interfere with any right-of-way or easements.

SPIRIT AND INTENT:

It is the opinion of the Secretary that the granting of the variance requested would be opposed to the general spirit and intent of the zoning ordinance inasmuch as the intent of the regulations is to maintain a setback from the adjacent properties a distance not less than the height of the unit.

RECOMMENDATION:

It is the opinion of the Secretary that all five conditions necessary to the granting of a variance have not been found to exist and the variance request should be denied.

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BZA CASE NO. 74-84

<u>2</u>	NOTICES SENT TO APPLICANT/AGENT
<u>10</u>	LEGAL ADVERTISEMENT SENT TO MAPC
<u>1</u>	NOTICES SENT TO CPO
<u>17</u>	NOTICES SENT TO ADJOINING PROPERTY OWNERS
<u>20</u>	TOTAL NOTICES SENT <u>11-7-84</u>

BOARD OF ZONING APPEALS  
Tenth Floor - City Hall  
455 North Main, Wichita, Kansas 67202

November 7, 1984

NOTICE TO ADJOINING PROPERTY OWNERS:

CASE NO. BZA 74-84

As required by law, all property owners of record, within 200 feet of a property to be considered for an exception or variance by the Board of Zoning Appeals, are to be notified of the public hearing. An application has been filed by Kenneth R. Stanislaus, 2643 North Waco, Wichita, Kansas, requesting a variance.

Pursuant to Section 2.12.590.B, of the Code of the City of Wichita, the applicant is requesting a variance permit the increase in the height of a wind generating unit from 45 feet to 80 feet and to permit the location within 15 feet of one side property line on property zoned the "A" Two-family Dwelling District and legally described as follows:

Lots 61 and 63 on Waco Avenue in McTaggart's Addition to Wichita, Sedgwick County, Kansas. Generally located on the west side of Waco between 25th Street North and 26th Street North (2643 North Waco).

This application has been assigned Case BZA 74-84. It will be considered by the Board of Zoning Appeals on November 27, 1984 at 1:30 p.m. in the Board Room, First Floor of City Hall, 455 North Main Street, Wichita, Kansas. If you have no interest or objections regarding the requested variance, you have no obligation to appear or comment. If you desire to appear at the Board meeting, you are invited to do so, either in person or by agent or attorney.

It should be noted that the Citizen Participation Organization Area Council may consider this case at its next meeting. Additional information about such a meeting may be obtained by calling the CPO Office, 268-4516.

If you have any questions about the application, please feel free to call the Wichita-Sedgwick County Metropolitan Area Planning Department at 268-4421.

Jack H. Galbraith  
Secretary

BOARD OF ZONING APPEALS

CASE NO. 7484

CITY OF WICHITA, KANSAS

FILED 10-22-84

APPLICATION FOR VARIANCE

I. Name of Applicant Kenneth R. Stanislaus  
 Mailing Address 2643 N. Waco Phone 832-1727  
 Name of Authorized Agent Bill Hilderbrand  
Windmills of Kansas  
 Mailing Address Box 278, Belle Plaine, Ks. 67013 Phone 488-2151  
 Relationship of applicant to property is that of Owner  
 (Owner, Tenant, Lessee, Other)

II. The variance requested is to change a 35 foot  
windgenerator to a 80 foot  
 \_\_\_\_\_  
 for property located 2643 N. Waco

and legally described as: lots 61 and 63 on  
Waco Avenue in McTaggart's Addition  
to Wichita, Sedgewick County, Ks

in the City of Wichita; and which is presently zoned "A" residential.

- III. The applicant herein, or his authorized agent, acknowledges:
- That he has received an instruction sheet concerning the filing and hearing of this matter;
  - That he has been advised of the fee requirements established by Section 2.12.580 of the Code of the City of Wichita (Ordinance No. 36-596); and that the appropriate fee is herewith tendered;
  - That he has been advised of his right to bring action in the District Court of Sedgewick County to appeal the decision of the Board.
  - That all documents are attached hereto as noted in paragraphs 2, 3, 4, and 5 of the instructions.

Applicant Kenneth R. Stanislaus

Authorized Agent Bill Hilderbrand

OFFICE USE ONLY: Received in Office of Secretary, Board of Zoning Appeals,  
9:30 (a.m./p.m.), Oct. 22, 1984, together with  
 appropriate fee of 75.00.

Signed H. Lytle

September 5, 1984

**UNR-Rohn**  
a UNR Company

Division of UNR, Inc.

6718 West Plank Road  
P.O. Box 2000  
Peoria, Illinois 61656

Phone 309 697 4400  
TWX 910 652 0646

Windhills of Kansas  
P.O. Box 278  
Belle Plaine, KS 67013

Attention: Mr. Bill Hilderbrand




Dear Mr. Hilderbrand:

Enclosed please find a set of drawings detailing the SSV self supporting tower that we supply to Astral-Wilcon for use with their 17KW wind turbine. You will note that the tower is designed for 40 psf (100 mph) per E.I.A. Standard (Electronic Industries Association) RS-222-C to accommodate a turbine with a maximum lateral thrust of 3,000 lbs. I have also included foundation drawings for normal soil conditions.

Please advise if you have any questions or if we can be of additional service.

Yours very truly,

  
Philip W. Metcalfe  
Alternate Energy Applications

PWM:jdm

Enc. D800020 R2 (1 set)

cc: Bob Stein, Astral-Wilcon

MICROFILMED  
FROM THE BEST  
AVAILABLE COPY

W. L. KORBER      R. G. WAYMIRE  
**BAUGHMAN CO.**  
SURVEYORS

PHONE 316/262-7271

330 LAURA

WICHITA, KANSAS 67211

State of Kansas    )  
                          ) SS  
County of Sedgwick)

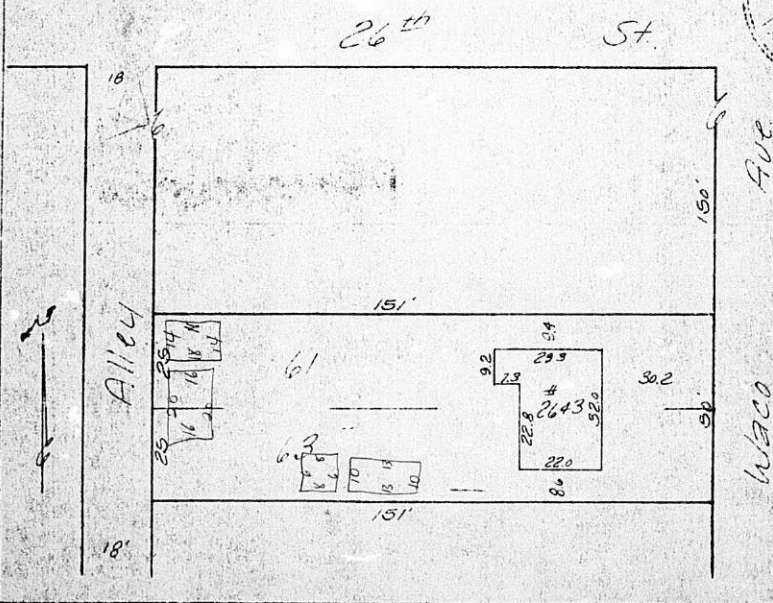
July 5, 1974

We, Baughman Company, Surveyors in aforesaid county and state do hereby certify that we did on this 5th day of July, 1974 survey Lots 61 and 63 on Waco in McTaggart's Addition to Wichita, Kansas.

On said lot is house No. 2643 with no garage which is in the clear of all boundary lines. There are no encroachments on said lot by buildings on the adjacent lots.

The accompanying plat is a true and correct exhibit of said survey for mortgagee title insurance.

*William L. Korber*  
Surveyor



A 35 ft. Wind generator won't  
operate properly we need to change  
it to a 80 ft.

Kenneth P. Stanislaw

RECEIVED

OCT 29 1984

METROPOLITAN PLANNING

ROUTE  \_\_\_\_\_  
 \_\_\_\_\_

Windmills of Kansas  
Box 278  
Belle Plaine, Kansas 67013  
October 25, 1984

Board of Zoning Appeals  
First Floor  
City Hall, 455 N. Main  
Wichita, Kansas 67201

Dear Sirs:

We are asking for the change in height requirement for the below listed reasons:

1. Large trees on surrounding property would effect a generator by blocking winds and causing turbulence that would keep it from producing. These trees are not located on the buyer's property.
2. Installation of a generator of this type will not affect adjacent property owners because it is quiet--no more noise than what is created by a condensing unit of a central air conditioner. They are quality engineered for safety. The tower is a Rohn tower made by a reputable company and engineered safe.
3. The hardship created by not allowing this infringes on the rights as property owners to be allowed to generate one's own electricity, therefore not being obligated to the major power producers. Other cities surrounding Wichita are now allowing wind generators, when these are properly installed. As people retire on fixed incomes, a generator that works will and can offset the rate increases that are sure to come.
4. We cannot determine how a wind generator at this height can cause any adverse effects on any persons's health, safety, or morals. It can be an asset to the neighbors and Wichita, because all-over production will help lower utility costs to the customers on the power company's line. It will not be out of place in this neighborhood, because the power company has poles to the height of 80 feet in the alley from Jackson and North Waco and from 21st to 24th then on west.
5. We cannot see that the granting of the variance will interfere with Title 28 (Zoning Ordinance) in any way, after the 80 feet height is granted. The generator is safe, the tower is safe in winds up to 100 mph. Any case of winds in excess of this will topple trees, power line, and many homes.

Thank you for your consideration and time in this matter.

Sincerely,

Bill Hilderbrand

Kenneth Stanislaus, property owner

*Application previously paid & turned in 10/22/84.*

## OWNERSHIP LIST

<u>Lot</u>	<u>Addition</u>	<u>Property Owner</u>
Lots 49-59 (odd lots)	McTaggart's Addition (Waco Ave.)	✓ Jenette Louise Wheeler 2657 N. Waco Wichita, KS 67204
Lots 61 & 63	"	D Kenneth R. Stanislaus Peggy J. Stanislaus 2643 N. Waco Wichita, KS 67204
Lots 65 & 67	"	✓ William R. Smith Lana L. Smith 2637 N. Waco Wichita, KS 67204
Lots 69 & 71	"	✓ Tommy C. Fernandez Josephine R. Fernandez 2631 N. Waco Wichita, KS 67204
Lots 50 & 52	"	<del>Wesley H. Vogt Stella Smith Address Unknown</del>
Lots 54 & 56	"	✓ Gilbert F. Rosales Grace Rosales 1722 N. Market Wichita, KS 67204
Lot 58 & North 19' of Lot 60	"	✓ Carl Lowe Sandra Lowe 2646 N. Waco Wichita, KS 67204
South 6' Lot 60 and all Lots 62 & 64	"	✓ Phillip H. Clark Debra J. Clark 2642 N. Waco Wichita, KS 67204
Lots 66 & 68	"	✓ John Kroeker Hulda Kroeker 1724 N. Sheridan Wichita, KS 67203
Lots 70 & 72	"	✓ Laverne D. Glazier Mary Elizabeth Glazier 2632 N. Waco Wichita, KS 67204
Lots 74 & 76	"	✓ Michael Julios Salas Felicitas Salas 2622 N. Waco Wichita, KS 67204
Lots 78 & 80	"	✓ Cliff Roberson Betty J. Roberson 2620 N. Waco Wichita, KS 67204

Lot	Addition	Property Owner
Lots 50 & 52	McTaggart's Addition (Jackson Ave.)	Mitchell N. Cox Betty N. Cox 2658 N. Jackson Wichita, KS 67204
Lots 54 & 56	"	<i>returned 11-13-84</i> A & A Oilfields Supply Co., Inc. <del>404 One Twenty Bldg.</del> Wichita, KS 67203
Lots 58 & 60	"	Donald R. Brewer Casmira L. Brewer 2650 N. Jackson Wichita, KS 67204
Lots 62 & 64	"	Oren W. Knotts 2646 N. Jackson Wichita, KS 67204
Lots 66 & 68	"	Veterans Administration 901 George Washington Blvd. Wichita, KS 67211
Lots 70 & 72	"	Roberto N. Reyes Cecilia M. Reyes 2638 N. Jackson Wichita, KS 67204
Lot 1	L.H.A. Addition	<i>back slip</i> Housing Authority of the City of Wichita, KS 1631 E. 17th Wichita, KS 67214

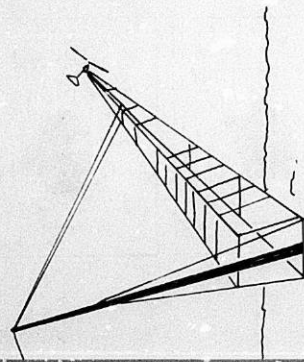
We hereby certify the foregoing to be a true and correct list of the property owners of the hereinbefore described lots within a 200 foot radius of:

Lots 61 and 63, on Waco Avenue in McTaggart's Addition to Wichita, Sedgwick County, Kansas.

as shown by the last deed of record on file in the Office of the Register of Deeds, Sedgwick County, Kansas, on the 5th day of October, 1984, at 7:00 o'clock A.M.

THE SECURITY ABSTRACT AND TITLE COMPANY, INC.

By *Mary Table*  
Sr. Vice President

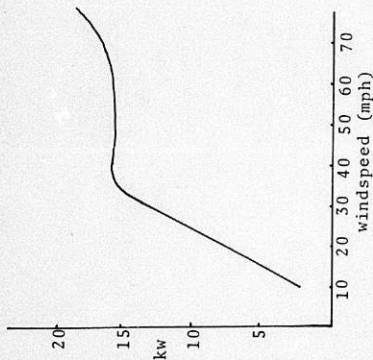


AWI requires that all of our wind turbines be installed on hinged towers that can be foisted to the ground. This is done so that the installation and general maintenance can be completed on the ground rather than by climbing the tower. This means that a potential customer of the AW 17 must have enough space at his site to lower a tower to the ground without crossing property lines or any roadways.

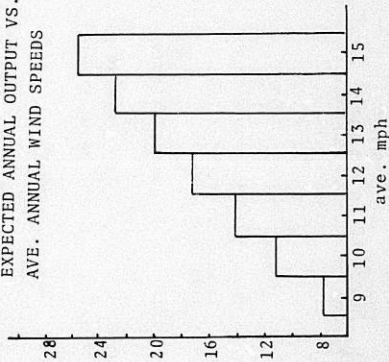
The type of tower recommended by AWI is a self supporting tower constructed of tubular and angled steel. This is a very attractive, strong tower and suitable for the home owner with minimal space.



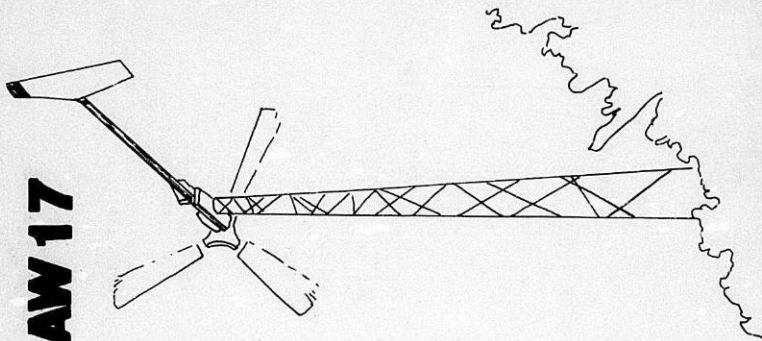
POWER VS. WINDSPEED



EXPECTED ANNUAL OUTPUT VS. AVE. ANNUAL WIND SPEEDS



**AW 17**

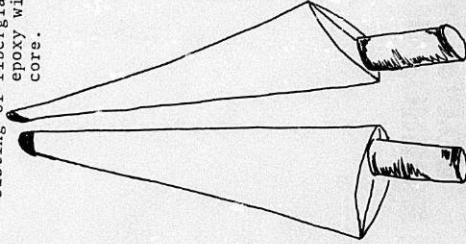


**WIND TURBINE GENERATOR**



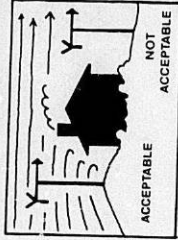
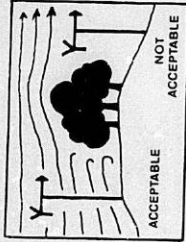
AWI is pleased to announce the availability of the AW-17 wind turbine generator. The AW-17 is a well designed, safe and efficient wind turbine which, when installed at a proper site, could produce more electricity than needed by the average home.

The AW-17 begins producing electricity at 11 mph and reaches its rated output at 34 mph. The AW-17 rotor blades are of composite construction, consisting of fiberglass reinforced epoxy with a foam core.



#### TECHNICAL SPECIFICATIONS

- \* Type: Horizontal axis, upwind, variable pitch
- \* Dia: 26.4'
- \* Blades: 3 Glass/fiber reinforced epoxy molded blades
- \* Blade wt.: 55 lbs.
- \* Turbine wt.: 1400 lbs.
- \* Rated output: 17 Kw
- \* Maximum output: 20 Kw
- \* Cut in MPH: 11
- \* Rated wind speed: 34 mph
- \* Generator/alternator: 1 or 3  $\phi$  induction
- \* Generator rating: 240/480 vac 60 hz
- \* Gear box: Totally enclosed, double reduction, ground & carburized helical gears-13.9:1
- \* RPM at rated power: 131 rpm
- \* Overspeed control: Pitch control & tail furf
- \* Safety: Machine disconnects from utility and moves to shut down upon loss of utility power
- \* Recommended tower ht.: 80 ft. +



#### SITE SELECTION

Tower location and height may well be the most important aspect of a wind turbine installation. Once you have determined that you have adequate wind speeds at your location, you must decide on the height of your tower. The tower should be preferably between 60-90 ft. Turbulence problems can be avoided by using a tower at least 30 ft. higher than any obstacles within a 200 ft. radius of the turbine site. Check with your local building inspector for zoning information.

Call or write  
for further information.

**awi** (Astral Wilson Co. Inc.)

P.O. Box 291  
127 West Main Street  
Millbury, Mass. 01527  
(617) 865-9570



**BOARD OF ZONING APPEALS  
Tenth Floor - City Hall  
455 North Main, Wichita, Kansas 67202**

**November 7, 1984**

**NOTICE TO ADJOINING PROPERTY OWNERS:**

**CASE NO. BZA 74-84**

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If you have any questions about the application, please feel free to call the Wichita-Sedgwick County Metropolitan Area Planning Department at 268-4421.

**Jack H. Galbraith  
Secretary**

**MICROFILMED  
FROM THE BEST  
AVAILABLE COPY**

FORM 29- PAYMENT NOTICE  
City of Wichita

Bldg.	Use of Str.	Code Bks	Copies
Elec	Elev. Insp.	Hse Moving	Lic.
Mech	Boiler Insp.	Pav. Cuts	Cert.
Pibg	Exam Fees	Sewer	Elev.
Signs	Plan Rev. (P.W.)	Cement	M.S.P.
	Planning		

DESCRIPTION	AMOUNT
CITY BLDG VAL	750
NAME	
ADDRESS	
FUND	DUE DATE
COMMENTS	
DATE	BY

WICHITA - SEDGWICK COUNTY

**W S C**

BOARD OF ZONING APPEALS  
CITY HALL - TENTH FLOOR  
455 NORTH MAIN STREET  
WICHITA, KANSAS 67202

NOT RECORDED  
NOT KNOWN  
RETURN TO SENDER

WICHITA  
NOV 1 1984

**RECEIVED**

NOV 13 1984

METROPOLITAN  
ROUTE  Shirley

WICHITA  
NOV-784  
KANSAS  
NOV 20 1984

A & A Oilfields Supply Co., Inc.  
404 One Twenty Bldg.  
Wichita, Ks. 67202



NOTICE

INSTALLATION INSTRUCTIONS, WARNING LABELS, CATALOGS, GUY CHARTS, ETC. ARE AVAILABLE FROM UNR-ROHN.

DUE TO GOVERNMENT REGULATIONS, BE SURE YOUR CUSTOMERS ARE INFORMED AS TO PROPER INSTALLATION INSTRUCTIONS WHEN PURCHASING ANY ANTENNA SUPPORTING STRUCTURE.

THE MIXING OF SO-CALLED INTERCHANGEABLE COPIES OF ROHN TOWERS WITH ROHN TOWERS IS DANGEROUS AND VOIDS ALL ENGINEERING OR WARRANTY DATA SUPPLIED BY UNR-ROHN. MATERIALS USED BY THE SO-CALLED COPIES ARE NOT THE SAME QUALITY AND HAVE NOT BEEN TESTED OR ENGINEERED BY UNR-ROHN TO CONFORM TO THE SAME QUALITY STANDARDS. MIXING OF NON-ROHN ITEMS MAY ENDANGER THE LIVES OF YOUR CUSTOMERS AND CAUSE SERIOUS TOWER FAILURES AND FINANCIAL MISFORTUNE FOR ALL CONCERNED.

---

WARNING

Installing and rigging towers, masts, and antennas require specialized skills and experience. Information supplied by UNR-Rohn assumes that all products will be installed by personnel having these skills and having installed similar products before. No one should attempt to install towers or masts without these skills and experience.

UNR-Rohn assumes no liability if faulty or dangerous installation practices are used. There are available trained and experienced personnel to assist in installation, maintenance, and disassembly. Contact your local installer if consultation or assistance is required.

UNR-Rohn does not recommend or warrant in any way the use of used tower sections. The use of used tower sections voids all warranties set forth by UNR-Rohn because no one knows if the used material has been misused, overloaded, or damaged.

UNR-Rohn recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

All antenna installations must be grounded per local or national codes.

Do not install towers or masts near power lines. All towers or masts should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

UNR-Rohn  
Division of UNR, Inc.

Form No. 781084R1-110181

NOTICE

UNR-Rohn makes available many items and types of towers which may or may not be required for your particular installation. Based on local, state, or federal laws and building codes for your area, it may be necessary that your particular tower have special items or be given special consideration.

UNR-Rohn makes available, either as standard or specials, many items and special care should be taken as to whether any or all of these items are required for your tower. Please be specific and advise us of your exact needs. UNR-Rohn cannot be responsible for any omission at anytime.

Some items available in various types and sizes are safety climbing devices, ladders, safety cages, anti-climbing devices, work platforms, rest platforms, F.A.A. painting or lighting, grounding, and fencing. Special engineering service and special packaging are also available. If there are any special requirements for your tower, be sure to include them in your request for quotation and on your order.

---

Due to the present day Occupational Safety and Health Act regulations, towers and parts are available incorporating features which will permit a safe product. However, the following is our position with regard to OSHA.

It is UNR-Rohn's intention to comply with the Williams-Steiger Occupational Safety and Health Act of 1970. It is a policy of UNR-Rohn to design and make towers and related equipment that are safe to use without hazards to people and/or property. We cannot, however, agree to a "blanket" certification that we are in total compliance with this Act because there are provisions in it whose meaning and application are unclear.

Therefore, we ask that you list your specific requirements with which you wish us to comply. These requirements may or may not affect the price of the towers and equipment under consideration for purchase.

We appreciate the opportunity afforded and would be happy to answer any additional questions you may have relative to our proposal.

---

WARNING

Your tower may or may not include step bolts for construction purposes. Step bolts are supplied on self-supporting towers as a convenience during construction.

If your tower has step bolts, the spacing at the section joints may not be consistent with the spacing throughout the tower. If this condition presents any hazard, please do not use these step bolts. If you or your customer think this possible unequal spacing will present safety problems to any personnel, do not install any step bolts. For proper safety UNR-Rohn recommends a ladder and safety climbing device on large towers where inexperienced personnel climb the tower.

UNR-Rohn will not be responsible for the use of step bolts. If you wish to use step bolts as supplied, this responsibility will be totally yours or your customers.

UNR-Rohn  
Division of UNR, Inc.

**ASSEMBLY BOLT INSTALLATION:**

All tower assembly bolts are to be inserted out and/or up (with nuts and pal nuts on the outside of tower face and top of flange connections) - unless prohibited by lack of clearance.

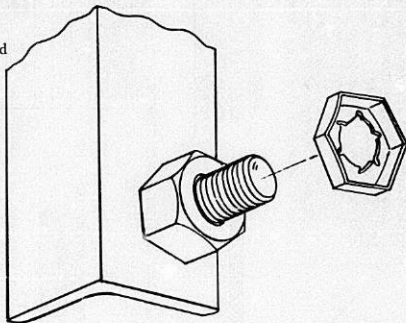
All assembly bolts are to be tightened according to E.I.A. Standard RS-222-B Subpart 1.1.5.2 - (where high strength galvanized bolts are used for nonfriction type connections, the bolts shall be tightened to a "snug tight" condition in accordance with "Specification for Structural Joints using A.S.T.M. A325 or A490 bolts").

Flat washers are to be installed with bolts over slotted holes.

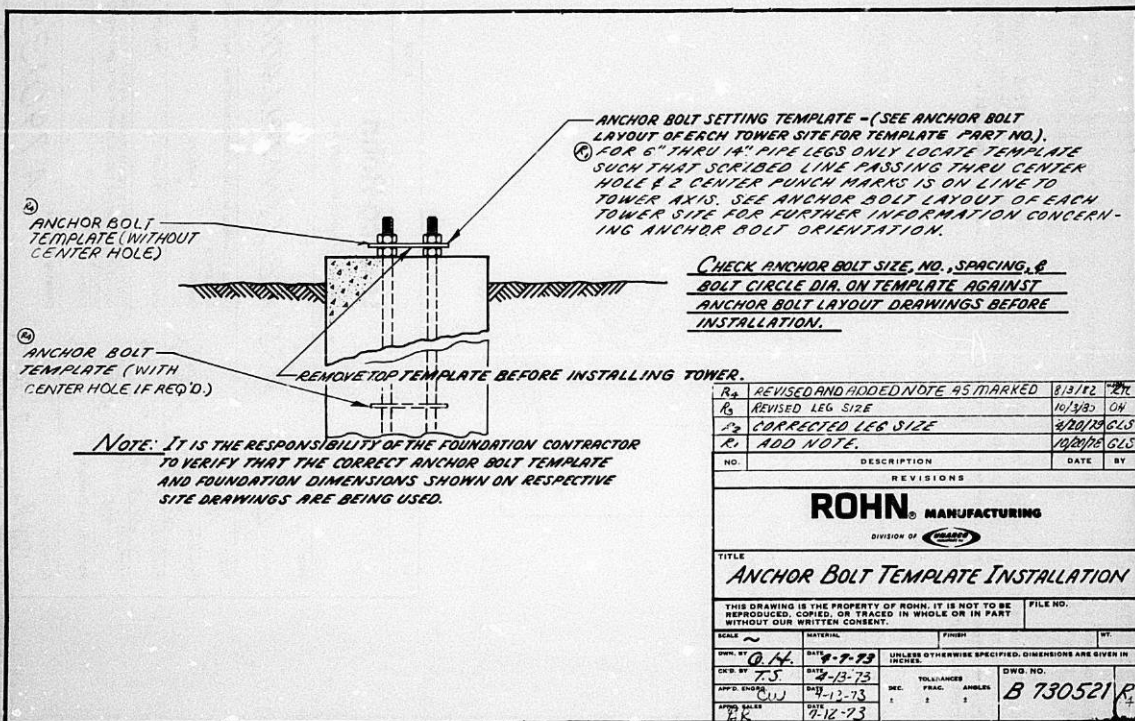
**CAUTION:** Do not over-torque. Hot dipped galvanizing on bolts, nuts and steel parts tends to act as a lubricant, thus over-tightening can easily occur and can cause bolts to crack or snap off.

**PAL NUT INSTALLATION:**

Pal nuts are to be installed after nuts are tight and with edge lip out. (see picture below)



No.	Revision	Description	Date	By	
<b>Unarco-Rohn</b> Division of Unarco Industries, Inc.					
<b>Title</b> <i>BOLT ASSEMBLY INSTALLATION</i>					
Scale <i>NONE</i>		Unless otherwise specified, dimensions are given in inches.			
Drawn by <i>O.H.</i>	Date <i>7-5-79</i>	Tolerances	Decimals	Fractions	Angles
Checked by <i>JAB</i>	Date <i>7-5-79</i>	±	±	±	±
Approved by Engineering <i>TS</i>	Date <i>7-5-79</i>	Material	Finish	Weight	
Approved by Production	Date	This drawing is the property of Unarco-Rohn. It is not to be reproduced, copied or traced in whole or in part without our written consent.			
Approved by Sales <i>PAH</i>	Date <i>7-10-79</i>	File Number	Drawing Number <i>A 790135</i>		



ANCHOR BOLT SETTING TEMPLATE - (SEE ANCHOR BOLT LAYOUT OF EACH TOWER SITE FOR TEMPLATE PART NO.)  
 (1) FOR 6" THRU 14" PIPE LEGS ONLY LOCATE TEMPLATE SUCH THAT SCRIBED LINE PASSING THRU CENTER HOLE & 2 CENTER PUNCH MARKS IS ON LINE TO TOWER AXIS. SEE ANCHOR BOLT LAYOUT OF EACH TOWER SITE FOR FURTHER INFORMATION CONCERNING ANCHOR BOLT ORIENTATION.

CHECK ANCHOR BOLT SIZE, NO., SPACING, & BOLT CIRCLE DIA. ON TEMPLATE AGAINST ANCHOR BOLT LAYOUT DRAWINGS BEFORE INSTALLATION.

REMOVE TOP TEMPLATE BEFORE INSTALLING TOWER.

NOTE: IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION DIMENSIONS SHOWN ON RESPECTIVE SITE DRAWINGS ARE BEING USED.

R2	REVISED AND ADDED NOTE 45 MARKED	8/31/72	PK
R3	REVISED LEG SIZE	10/13/73	ON
R4	CORRECTED LEG SIZE	8/20/79	GLS
R5	ADD NOTE	12/20/79	GLS

NO.	DESCRIPTION	DATE	BY
REVISIONS			
<b>ROHN</b> MANUFACTURING			
DIVISION OF			
TITLE			
<b>Anchor Bolt Template Installation</b>			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			FILE NO.
SCALE	MATERIAL	FINISH	WT.
DRW. BY	DATE	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
CHK. BY	DATE	DEC.	TOL. ANGLES
APP. ENG.	DATE	1	1
PROJ. SALES	DATE	DWG. NO.	
PK	7-12-73	<b>B 730521 R</b>	

**UNR-ROHN RECOMMENDS THE FOLLOWING  
FOUNDATION AND ANCHOR TOLERANCES:**

ALL TOWERS

1. CONCRETE DIMENSIONS - PLUS OR MINUS 1"
2. DEPTH OF FOUNDATION - PLUS 3" OR MINUS 0"
3. REINFORCING STEEL PLACEMENT - PLUS OR MINUS 1/4"
4. ALL ANCHOR BOLTS SHALL BE TIGHTENED TO "SNUG TIGHT" CONDITION.  
PER A.I.S.C. SPECIFICATIONS, SNUG TIGHT IS DEFINED AS THE FULL  
EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.
5. PAL NUTS MUST BE INSTALLED ON ALL TOWER BOLTS WHEN SPECIFIED.

SELF-SUPPORTING TOWERS



6. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/32"
7. ANCHOR BOLT CIRCLE ORIENTATION - PLUS OR MINUS 1/4 DEGREE
8. FACE SPREAD DIMENSION (CENTER TO CENTER OF ANCHOR BOLT CIRCLE)  
PLUS OR MINUS 1/16"

GUYED TOWERS

9. GUY RADIUS  $\pm$  3 PERCENT OF TOWER HEIGHT
10. ANCHOR ELEVATION  $\pm$  3 PERCENT OF TOWER HEIGHT ABOVE OR BELOW  
TOWER BASE
11. ANCHOR ALIGNMENT-(PERPENDICULAR TO GUY RADIUS)-PLUS OR MINUS  
0.1 DEGREES
12. ANCHOR ROD SLOPE - PLUS OR MINUS 1.0 DEGREE
13. GUY INITIAL TENSION - PLUS OR MINUS 10 PERCENT OF THE VALUE  
SPECIFIED ON THE TOWER ASSEMBLY DRAWING

WARNING!

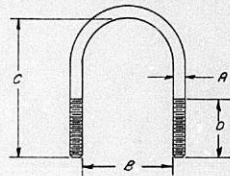
AFTER ANCHOR BOLTS ARE INSTALLED AND THE CONCRETE HAS TAKEN  
ITS INITIAL SET, THE ANCHOR BOLTS CAN NOT BE MOVED, BENT OR  
REALIGNED IN ANY WAY!

R1	REDRAWN & ADD NOTES 465	11/15/82	WRF
No. ▲	Revision Description	▲ Date	▲ By
<b>UNR-Rohn</b> Division of UNR, Inc.			
Title <b>FOUNDATION AND ANCHOR TOLERANCE</b>			
Scale NONE		Unless otherwise specified, dimensions are given in inches.	
Drawn by <b>WMN</b> 12/16/81		Tolerances Decimals      Fractions      Angles ±                    ±                    ±	
Checked by <b>WDU</b> 1/23/82		Material      Finish      Weight	
Approved by Engineering <b>R.A.M.</b> 11/19/82		This drawing is the property of UNR-Rohn. It is not to be reproduced, copied or traced in whole or in part without our written consent.	
Approved by Production  11-24-82		File Number	
Approved by Sales		Drawing Number <b>A810214 R1</b>	

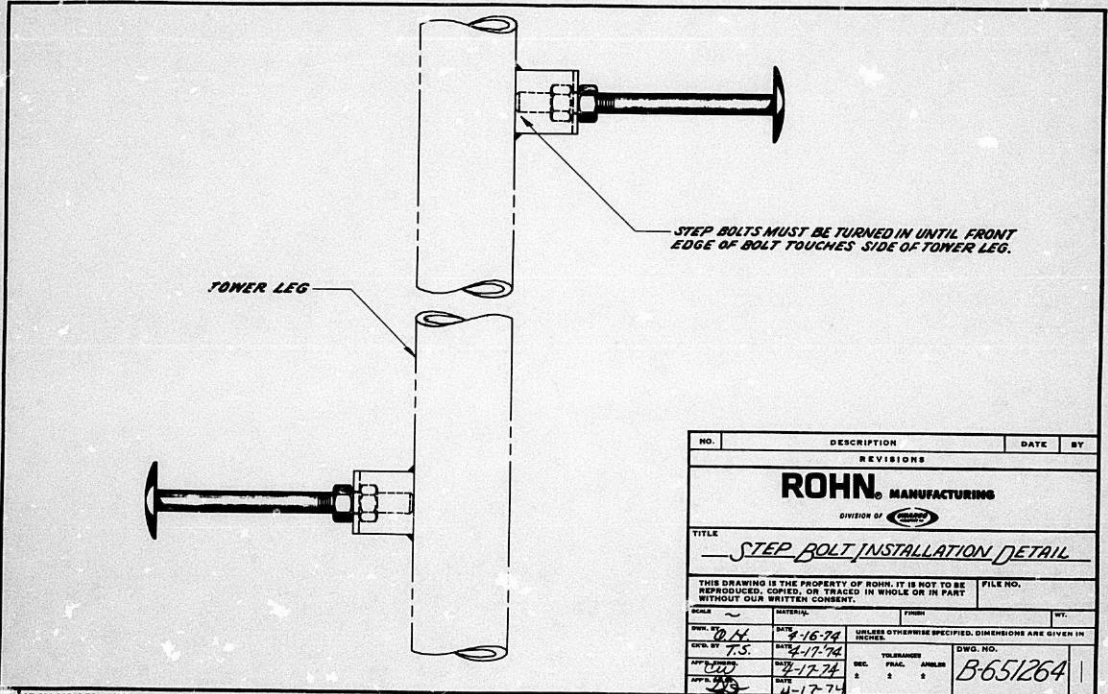
A	B	C	D	U-BOLT P/N	HEX NUTS 2 REQ'D.	PAL NUTS 2 REQ'D.	U-BOLT ASSY P/N	
1/4	1	2	1 1/4	JR-41	240005	---	JR-41A	
	1 3/8	2 1/4	1 1/2	JR-44	240005	---	JR-44A	
	1 1/2	2 1/2	1 3/8	JR-45	240005	---	JR-45A	
	3/8	1 3/8	1/2	Jk-47	240005	---	JR-47A	
5/16	1 1/2	2 3/8	1 1/4	JR-51	230002	230001	JR-51A	
	2	3	1 1/2	JR-52	240014	---	JR-52A	
	2 1/4	2 3/16	3/4	JR-53	230002	230001	JR-53A	
	1 1/2	2 1/4	1	JR-54	230002	230001	JR-54A	
	1 1/2	2	1 1/4	JR-55	230002	230001	JR-55A	
	SEE DWG. NO. 8770803				JR-56	230002	230001	JR-56A
3/8	2 1/2	3 1/2	1 1/2	JR-61	230005	230007	JR-61A	
	4	6	2 1/4	JR-62	230005	230007	JR-62A	
	4 1/2	6 1/2	2 1/4	JR-63	230005	230007	JR-63A	
	5 1/2	4 3/8	1 3/8	JR-64	230005	230007	JR-64A	
	1 1/2	3	1 3/8	JR-65	230005	230007	JR-65A	
	1 1/4	2 3/4	1 3/8	JR-66	230005	230007	JR-66A	
	1	2 1/4	1 1/4	JR-67	230005	230007	JR-67A	
	2 1/8	3	1 1/4	JR-68	230005	230007	JR-68A	
	1 3/16	1 3/8	3/8	JR-69	230005	230007	JR-69A	
	2 1/2	4	2	JR-60	230005	230007	JR-60A	
	1/2	2	3 3/4	1 3/4	JR-810	230013	230011	JR-810A
		3 1/2	3 1/2	2 1/2	JR-81	230013	230011	JR-81A
2 1/4		4 1/2	2 1/4	JR-82	230013	230011	JR-82A	
2 1/2		4 1/2	2 1/2	JR-83	230013	230011	JR-83A	
3		5 3/8	3	JR-84	230013	230011	JR-84A	
4 1/2		6	2 1/4	JR-85	230013	230011	JR-85A	
5 3/8		8	2 1/2	JR-86	230013	230011	JR-86A	
6 3/4		9	2 1/2	JR-87	230013	230011	JR-87A	
3 1/2		6	3	JR-88	230013	230011	JR-88A	
4		6 1/2	3 1/2	JR-89	230013	230011	JR-89A	
8 3/4		11 1/8	2 1/2	JR-90S	250015	230011	JR-90SA	
10 3/8		13	2 1/2	JR-110	230013	230011	JR-110A	
12 3/8	15	2 1/2	JR-120	230013	230011	JR-120A		
4 3/4	8 3/4	2 1/2	JR-85L	230013	230011	JR-85LA		
1 1/8	1 6 1/4	2 1/2	JR-140	230013	230011	JR-140A		

**NOTE: \***  
 U-BOLT JR-85L CAN BE FABRICATED FROM U-BOLT JR-85 (THIS IS AN EXTRA LONG U-BOLT FOR 4" PIPE).  
**FABRICATION DRAWINGS (PLS. SHOP USE ONLY)**  
 JR-90S ----- A-690902 A  
 JR-110 ----- A-730501  
 JR-120 ----- A-730502  
 \*JR-85L ----- 8810416  
 JR-140 ----- A810189

**NOTE: ALL THREADS ARE NC ROLLED.**



Revised	REVISION 6 REV. JR-88 (D DIMENSION WAS 2 1/2)	12-27-81	ARC
No.	Revision Description	Date	By
<b>Unarco-Rohn</b> Division of Unarco Industries, Inc.			
<b>U-BOLT ASSEMBLY</b>			
Scale	Unless otherwise specified, dimensions are given in inches.		
Tolerances	Decimals Fractions Angles		
±	±	±	±
Material	Finish	Weight	
Drawn by	DATE	Checked by	
WJL	5-5-77	MOS	
Checked by	DATE	Approved by Engineering	
MOS	5-11-77	CJL	
Approved by Production	DATE	Approved by Sales	
		IC	
Drawing Number	B-651028 R23		



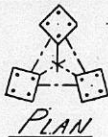
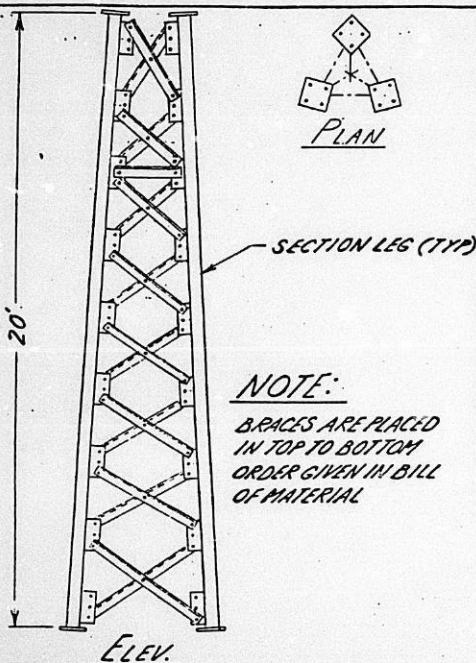
TOWER LEG

STEP BOLTS MUST BE TURNED IN UNTIL FRONT  
EDGE OF BOLT TOUCHES SIDE OF TOWER LEG.

NO.	DESCRIPTION	DATE	BY
REVISIONS			
<b>ROHN</b> MANUFACTURING			
DIVISION OF			
TITLE			
<i>STEP BOLT INSTALLATION DETAIL</i>			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			FILE NO.
SCALE	MATERIAL	FINISH	WT.
DRW. BY <i>D.H.</i>	DATE <i>4-16-74</i>	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
CHK. BY <i>T.S.</i>	DATE <i>4-17-74</i>	DES. <i>DD</i>	DWG. NO. <i>B-651264</i>
APP. <i>DD</i>	DATE <i>4-17-74</i>	SEC. <i>2</i>	ANGLER <i>2</i>
APP. <i>DD</i>	DATE <i>4-17-74</i>		

84P 880-280 2-72 4819

PRINTED IN U.S.A.



**NOTE:**  
BRACES ARE PLACED  
IN TOP TO BOTTOM  
ORDER GIVEN IN BILL  
OF MATERIAL

### BILL OF MATERIAL

ITEM	QUAN.	PART No.	DESCRIPTION	DWG. No.
1	2	VG52	LEG (PIPE 2 1/2 STD)	C781397
2	1	VG52S	STEP LEG	"
3	6	VG62	DIAG. BRACE (2 1/2 X 1 1/2 X 3/16)	"
4	6	VG63	"	"
5	3	VG49	HOR. BRACE (2 1/2 X 1 1/2 X 3/16)	C780716
6	6	VG61	DIAG. BRACE (2 1/2 X 1 1/2 X 3/16)	C781397
7	6	VG54	"	"
8	6	VG55	"	"
9	6	VG56	"	"
10	6	VG57	"	"
11	6	VG58	"	"
12	126	2100176A	1/2 X 1/4 BOLT ASSY. (BRACE)	C770404
13	12	2100336A	3/4 X 2 1/2 BOLT ASSY. (FLANGE)	"

### MISC. INFO.

FLANGE PLATE					SPREAD		
OFFSET	BEVEL (BOT)	SIZE (TOP)	PIN	SIZE (BOTTOM)	PIN	TOP	BOTTOM
—	2 1/2 STD	5 X 5 X 3/4	5C	5 X 5 X 3/4	5C	1'-0 1/2"	2'-6 1/2"

\* 2 1/2" REV @ TOP

R1	DWG. NO. WAS C781399.	12/29/81	GLS
No	Revision Description	Date	By

### Unarco-Rohn

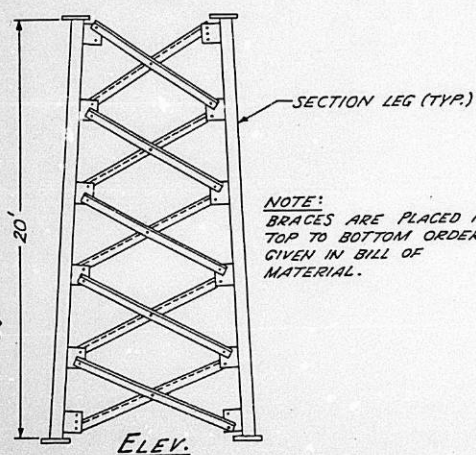
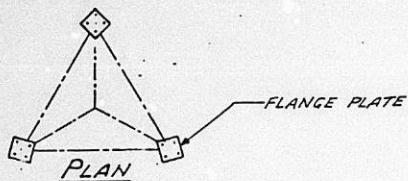
Division of Unarco Industries, Inc.



Scale	NONE	Title	ASSEMBLY DETAILS
Drawn by	GLS	Date	12/15/81
Checked by	AM	Date	12-29-81
Approved by Engineering	TS	Date	1-4-82
Approved by Production		Date	
		FOR	
		SSV SECTION VG65	
		Drawing Number	
		A 810205R.	

### GENERAL NOTES:

1. LEG PIN IS STAMPED AT BOTTOM OF EACH LEG OF EACH SECTION.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. STEP BOLTS ARE PROVIDED ON ONE LEG ONLY.
4. FLANGE BOLTS (\*) GIVEN IN BILL OF MATERIAL ARE FOR FLANGE PLATES AT BOTTOM OF SECTION. IF THE SECTION IS USED AS A BASE SECTION SEE THE TOWER ASSEMBLY DWG. OR ANCHOR BOLT LAYOUT FOR CORRECT SIZE AND QUANTITY OF ANCHOR BOLTS.
5. BEVEL FOR FLANGE PLATES IS FOR BOTTOM FLANGE PLATES ONLY UNLESS OTHERWISE NOTED.



NOTE:  
BRACES ARE PLACED IN  
TOP TO BOTTOM ORDER  
GIVEN IN BILL OF  
MATERIAL.

- GENERAL NOTES:
1. LEG PIN IS STAMPED AT BOTTOM OF EACH LEG OF EACH SECTION.
  2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
  3. STEP BOLTS ARE PROVIDED ON ONE LEG ONLY.
  4. FLANGE BOLTS GIVEN IN BILL OF MATERIAL ARE FOR FLANGE PLATES AT BOTTOM OF SECTION. IF THE SECTION IS USED AS A BASE SECTION SEE THE TOWER ASSEMBLY DWG. OR ANCHOR BOLT LAYOUT FOR CORRECT SIZE AND QUANTITY OF ANCHOR BOLTS.
  5. BEVEL FOR FLANGE PLATES IS FOR BOTTOM FLANGE PLATES ONLY UNLESS OTHERWISE NOTED.

**BILL OF MATERIAL**

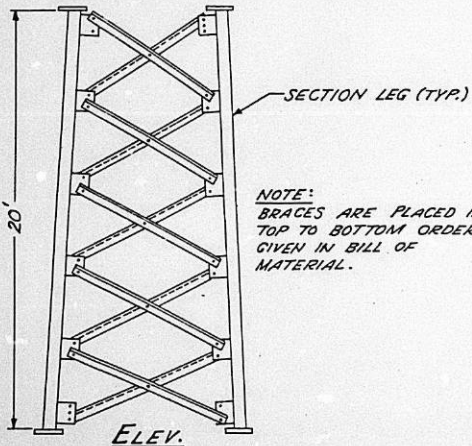
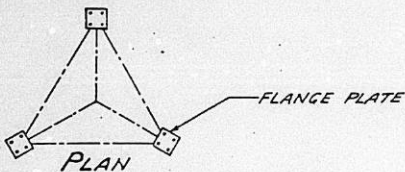
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. No.
1	2	VL 654	LEG (PIPE 2 1/2 X 3/8)	B790902
2	1	VL 654S	STEP LEG ( " " " )	"
3	6	N61	DIAG. BRACE (L 1/2 X 1/2 X 3/8)	SK 691001
4	6	N62	" " ( " " )	"
5	6	N63	" " ( " " )	"
6	6	N64	" " ( " " )	"
7	6	N65	" " ( " " )	"
8	75	210017.6A	1/2 X 1/2 BOLT ASSY. (BRACES)	C770404
9	12	210050.6A	3/8 X 2 3/4 " " (FLANGES)	"

**MISC. INFO.**

FLANGE PLATE					SPREAD		
OFFSET	BEVEL	SIZE (TOP)	PIN	SIZE (BOTTOM)	PIN	TOP	BOTTOM
1/4"	33° BEV.	5X5X 3/4	5C	6X6X 3/4	6A	*2'-6 1/2"	4'-7 1/4"

AT TOP \* CANNOT BE USED WITH SECT. 5N

No. A	Revision	Description	Date	A By
<b>Unarco-Rohn</b>				<b>6</b>
Division of Unarco Industries, Inc.				
Scale	NONE		Title	
Drawn by	AED	Date	ASSEMBLY DETAILS	
Checked by	GRW	Date	FOR	
Approved by Engineering	M/TS	Date	SSV SECTION 6N7I	
Approved by Production		Date	Drawing Number	
			A 790312	



NOTE:  
BRACES ARE PLACED IN  
TOP TO BOTTOM ORDER  
GIVEN IN BILL OF  
MATERIAL.

**BILL OF MATERIAL**

ITEM	QUAN.	PART No.	DESCRIPTION	DWG. No.
1	2	NL655	LEG (PIPE 3 STD.)	B790918
2	1	NL655S	STEP LEG ( " " " )	"
3	6	N71	DIAG. BRACE (2 1/2 X 1 1/2 X 3/8)	SL691001
4	6	N72	" " ( " " )	"
5	6	N73	" " ( " " )	"
6	6	N74	" " ( " " )	"
7	6	N75	" " ( " " )	"
8	75	2100176A	1/2 X 1 1/4 BOLT ASSY. (BRACES)	C770804
9	12	2100506A	3/4 X 2 3/4 " " (FLANGES)	"

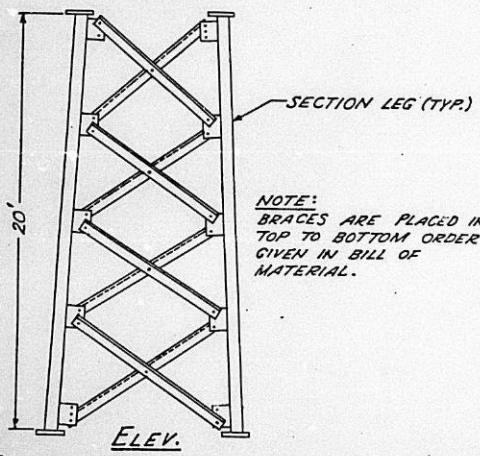
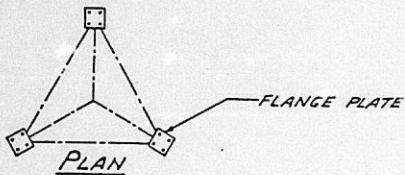
**MISC. INFO.**

		FLANGE PLATE			SPREAD		
OFFSET	BEVEL	SIZE (TOP)	P/N	SIZE (BOTTOM)	P/N	TOP	BOTTOM
—	—	6 X 6 X 3/4	6C	6 X 6 X 3/4	6C	4'-7 1/2"	6'-7 1/2"

**GENERAL NOTES:**

1. LEG P/N IS STAMPED AT BOTTOM OF EACH LEG OF EACH SECTION.
2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
3. STEP BOLTS ARE PROVIDED ON ONE LEG ONLY.
4. FLANGE BOLTS (\*) GIVEN IN BILL OF MATERIAL ARE FOR FLANGE PLATES AT BOTTOM OF SECTION. IF THE SECTION IS USED AS A BASE SECTION SEE THE TOWER ASSEMBLY DWG. OR ANCHOR BOLT LAYOUT FOR CORRECT SIZE AND QUANTITY OF ANCHOR BOLTS.
5. BEVEL FOR FLANGE PLATES IS FOR BOTTOM FLANGE PLATES ONLY UNLESS OTHERWISE NOTED.

No.	Revision	Description	Date	By
<b>Unarco-Rohn</b> Division of Unarco Industries, Inc.				
Scale		Title		
NONE		ASSEMBLY DETAILS		
Drawn by	Date	FOR		
AED	12-21-79	SSV SECTION 7N106		
Checked by	Date	Drawing Number		
GMW	11-09-82	A 790318		
Approved by Engineering	Date			
P.M.J.S.	11-15-82			
Approved by Production	Date			



NOTE:  
BRACES ARE PLACED IN  
TOP TO BOTTOM ORDER  
GIVEN IN BILL OF  
MATERIAL.

- GENERAL NOTES:
1. LEG PIN IS STAMPED AT BOTTOM OF EACH LEG OF EACH SECTION.
  2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
  3. STEP BOLTS ARE PROVIDED ON ONE LEG ONLY.
  4. FLANGE BOLTS (\*) GIVEN IN BILL OF MATERIAL ARE FOR FLANGE PLATES AT BOTTOM OF SECTION. IF THE SECTION IS USED AS A BASE SECTION SEE THE TOWER ASSEMBLY DWG. OR ANCHOR BOLT LAYOUT FOR CORRECT SIZE AND QUANTITY OF ANCHOR BOLTS.
  5. BEVEL FOR FLANGE PLATES IS FOR BOTTOM FLANGE PLATES ONLY UNLESS OTHERWISE NOTED.

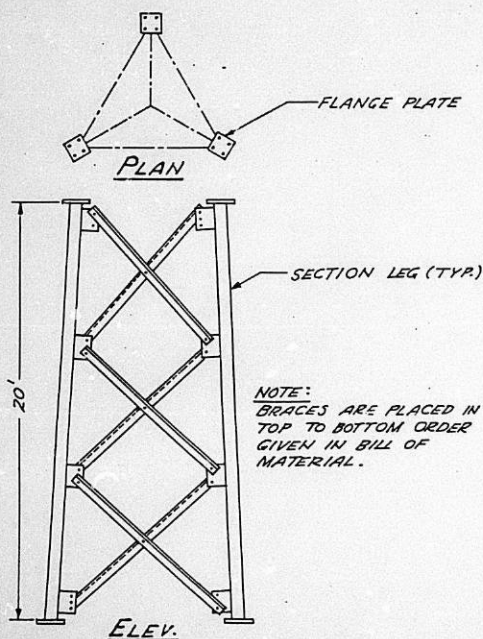
BILL OF MATERIAL

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. No.
1	2	VL377	LEG (PIPE 3 STD.)	B770.416
2	1	VL377S	STEP LEG ( " " " )	"
3	6	NB1	DIAG. BRACE (2 1/2 x 1 1/2 x 3/8)	SK 691001R7
4	6	NB2	" " ( " " )	"
5	6	NB3	" " ( " " )	"
6	6	NB4	" " ( " " )	"
7	60	210017 GA	3/8 x 1 1/2 BOLT ASSY. (BRACES)	C770404R2
8	12	210063 GA	3/8 x 3 1/2 " " (FLANGES)	"

MISC. INFO.

FLANGE PLATE					SPREAD		
OFFSET	BEVEL	SIZE (TOP)	P/N	SIZE (BOTTOM)	P/N	TOP	BOTTOM
—	—	6 x 6 x 3/8	6C	7 x 7 x 1	7D	6'-7 1/4"	8'-7 1/4"

No	Revision	Description	Date	By
<b>Unarco-Rohn</b> Division of Unarco Industries, Inc.				
Scale	None		Title	
Drawn by	AED	Date	ASSEMBLY DETAILS	
Checked by	AG	5-11-81	FOR	
Approved by Engineering	TS	5-12-81	SSV SECTION 8NG4	
Approved by Production	lum	5-12-81	Drawing Number	
			A 780312	



- GENERAL NOTES:**
1. LEG PIN IS STAMPED AT BOTTOM OF EACH LEG OF EACH SECTION.
  2. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
  3. STEP BOLTS ARE PROVIDED ON ONE LEG ONLY.
  4. FLANGE BOLTS (\*) GIVEN IN BILL OF MATERIAL ARE FOR FLANGE PLATES AT BOTTOM OF SECTION. IF THE SECTION IS USED AS A BASE SECTION SEE THE TOWER ASSEMBLY DWG. OR ANCHOR BOLT LAYOUT FOR CORRECT SIZE AND QUANTITY OF ANCHOR BOLTS.
  5. BEVEL FOR FLANGE PLATES IS FOR BOTTOM FLANGE PLATES \*ONLY UNLESS OTHERWISE NOTED.

**BILL OF MATERIAL**

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. No.
1	2	VL576	LEG (PIPE 3 X-STR)	B 781028
2	1	VL576S	STEP LEG ( " " " )	"
3	6	N91	DIAG. BRACE (L 1 3/4 X 1 3/4 X 3/8)	SK691001
4	6	N92	" " ( " " )	"
5	6	N93	" " ( " " )	"
6	45	21007GA	3/4 X 1/2 BOLT ASS'Y. (BRACES)	CT70404
7	12	20013GA	7/8 X 3 1/2 " " (FLANGES)	"

**MISC. INFO.**

FLANGE PLATE					SPREAD		
OFFSET	BEVEL	SIZE (TOP)	P/N	SIZE (BOTTOM)	P/N	TOP	BOTTOM
—	3/4 STD.	7X7X1	7D	7X7X1	7D	8'-7 1/2"	10'-7 1/2"

No. &	Revision	Description	Date	By
<b>Unarco-Rohn</b> Division of Unarco Industries, Inc.				
Scale	NONE			Title
Drawn by	AED			ASSEMBLY DETAILS
Checked by	GAW			FOR
Approved by Engineering	PM/TS			SSV SECTION 9N65
Approved by Production				Drawing Number
				A 780379

\*

This BZA. Case  
Has a Large Drawing  
On 35mm Microfilm

Roll # 2