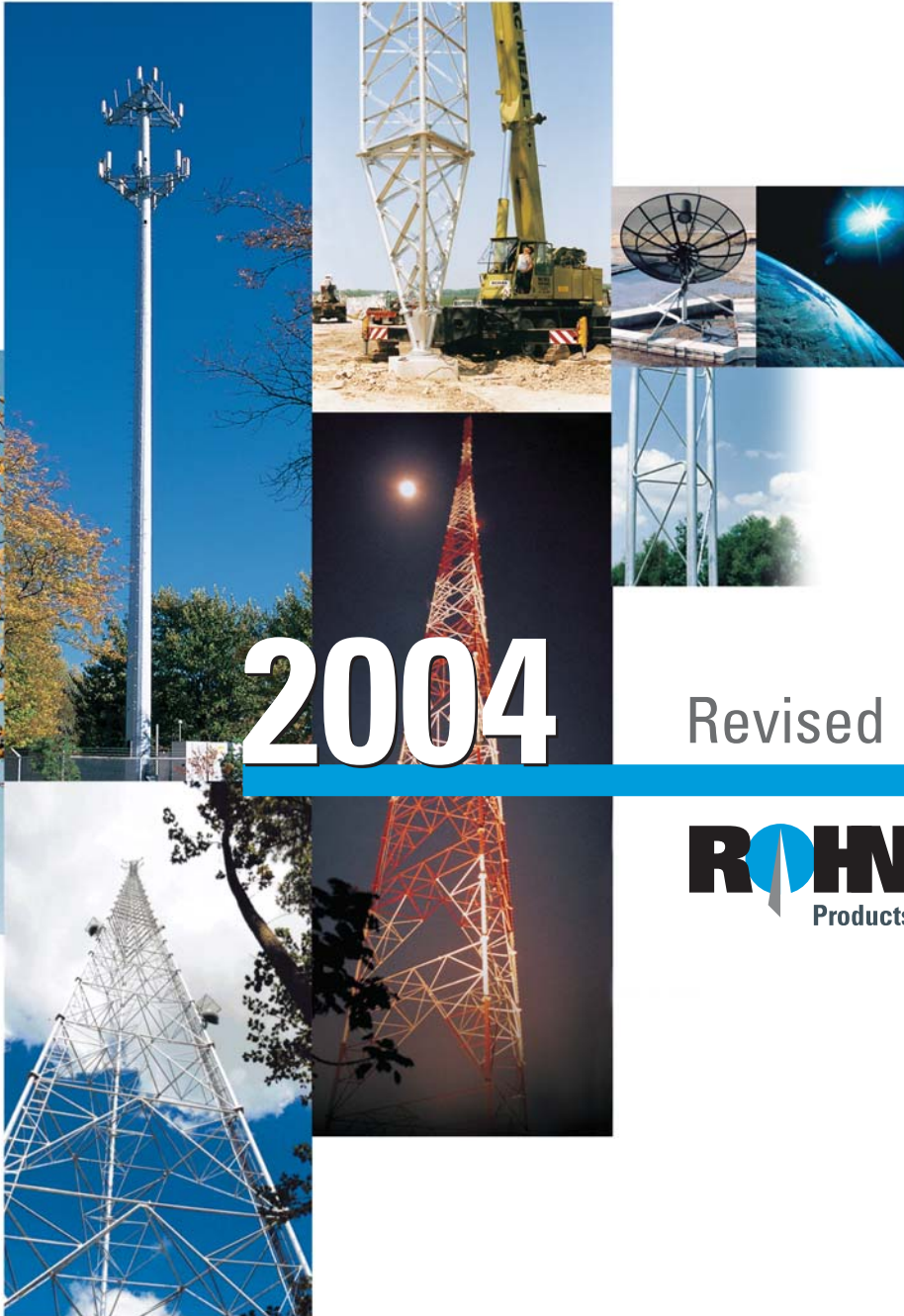




Radian  
Communication  
Services



2004

Revised Product Catalog



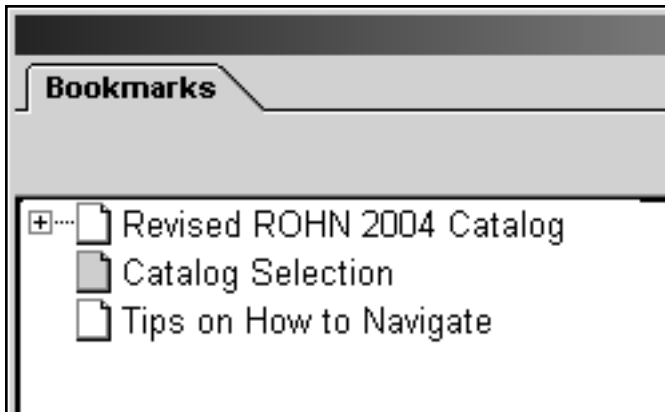
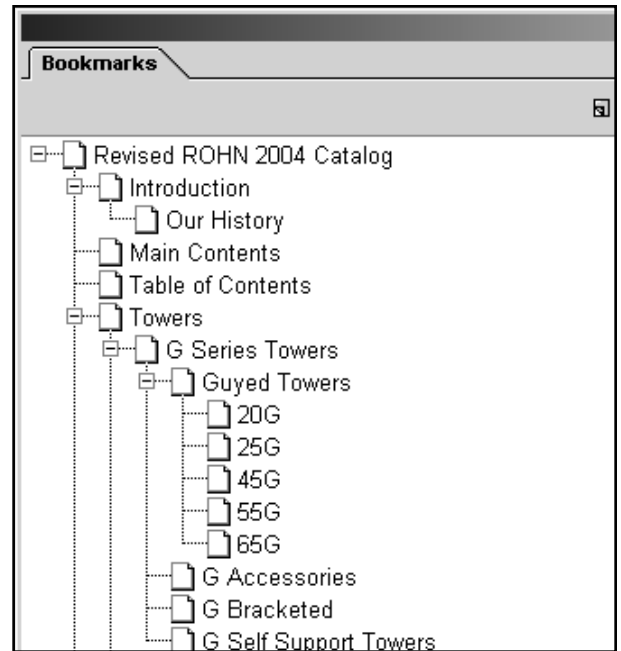
**Tips on How to Navigate:**

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**Select “Bookmarks”**

**All sections of the catalog will be found here.**

**In order to go from either the Radian or ROHN catalog, please make your selection from the catalog selection page (shown below).**







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## Products for a Growing World of Technology

Since 1948, ROHN has been serving the needs of the communications industry with high quality products

**O U R H I S T O R Y** that include towers, poles,

equipment enclosures, and accessories. ROHN's manufacturing plant is located in Peoria, Illinois with regional operations throughout the United States.

ROHN is dedicated to quality in both products and service. That dedication means your towers, poles, and accessories will be the finest available. It also means that you'll order from people who are experienced, efficient and knowledgeable. Our engineering department includes a staff of professional engineers and draftspersons using state of the art computer aided design and drafting equipment to produce custom designs. ROHN's traffic department directs the fast and efficient delivery of ROHN products through experienced contract carriers.



## THE LEADER IN TOWERS

From Amateur Radio to the latest in Wireless Technology, ROHN has the tower to meet your needs. Upon completion, all towers are hot dip galvanized after fabrication and can be manufactured in either tubular steel or solid rod. Whether its guyed, self-supporting, or rigid tube, all our towers are designed to continually meet the demands and specifications of the communications industry and can be seen all over the world. ROHN towers are made of the finest steel suitable to galvanizing and dipped in molten zinc to provide a durable, and virtually maintenance free finish.





## SAFETY FIRST

ROHN is dedicated to the safety of everyone working on and around our products. We urge you to read the safety section in our catalog to prevent any situations that would endanger yourself, your employees, or others.

## POLES CONSERVE VALUABLE LAND SPACE

ROHN offers a variety of pole types to meet your specific communication requirements. Our tapered steel, flanged steel, fiberglass and concrete poles all feature designs that blend well into the environment and require minimum space for installation. Specifically designed to your requirements, ROHN poles meet the stringent demands of today's communications environment.



## HOT DIP GALVANIZING

ROHN Hot Dip Galvanizing is one of the most cost effective ways to protect your steel products from corrosion. Since 1955 ROHN has provided hot dip galvanizing for their products.

## OUR EXPERT CONSTRUCTION SERVICES

The ROHN construction group works closely with engineering, production, shipping, and field installation personnel to provide you with the highest quality products and widest range of services in the industry. ROHN's construction experts can assist you in meeting your stringent time schedule, and performance objectives with complete turnkey services.



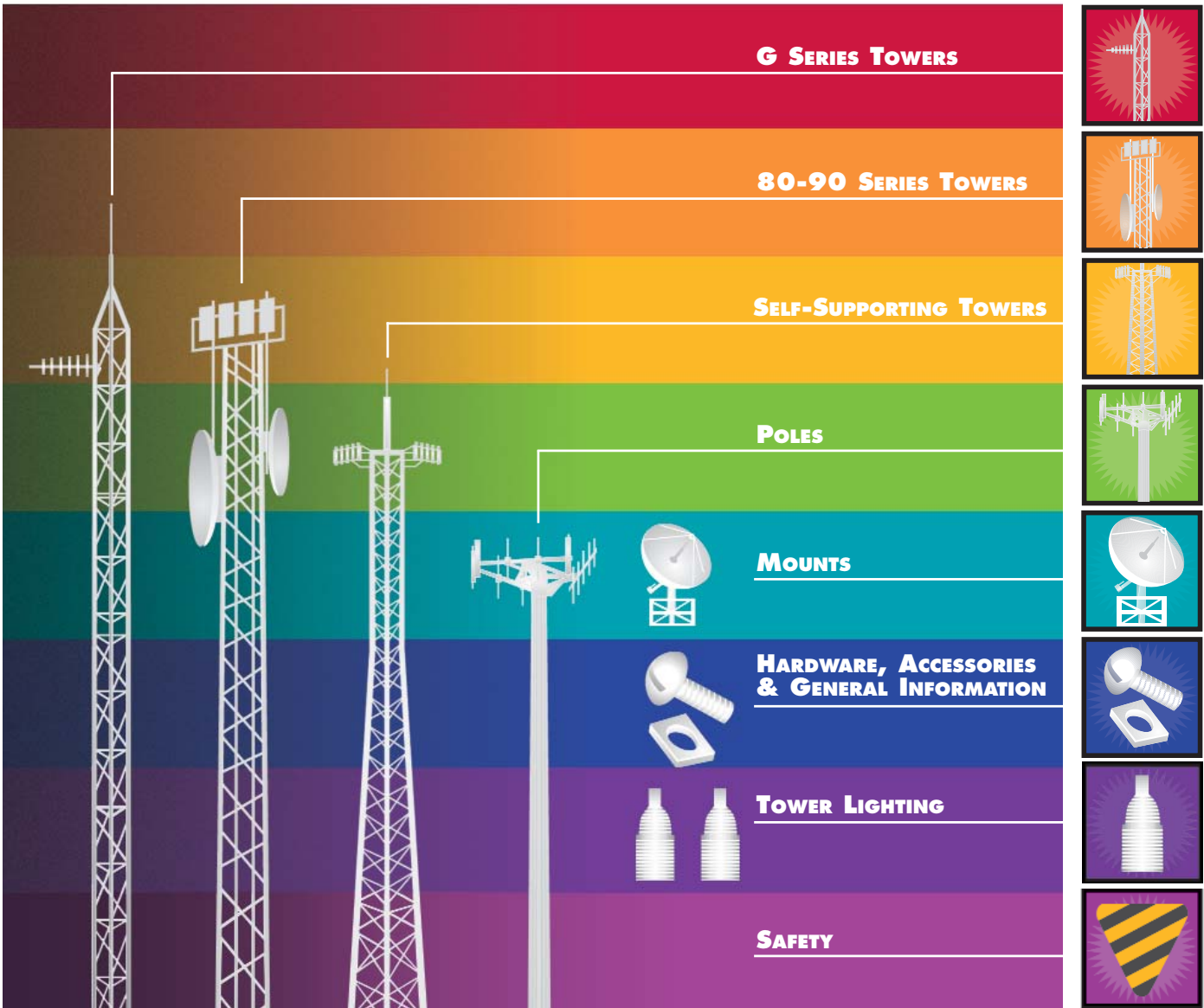
## THE ONE SOURCE YOU NEED

ROHN, in addition to our towers and poles, can provide you with antenna and satellite mounts plus all the hardware and accessories you need to complete the project. All of our mounts and accessories are made with the same high quality and attention to detail as our larger products, so you know whatever it is, when you buy ROHN, you're getting the best.





PRODUCTS FOR A GROWING WORLD OF TECHNOLOGY



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Peoria Manufacturing Facility  
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# ROHN™

Products

TOWERS



PRODUCTS FOR A  
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# GUYED TOWERS



PRODUCTS FOR A  
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# G SERIES TOWERS



PRODUCTS FOR A  
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# G SERIES

## MULTI-USE TOWERS BUILT TO LAST

The G Series is a line of towers designed for efficiency, strength and versatility. The products in the G Series include the 20G, 25G, 45G, 55G, and 65G towers. These durable towers are entirely welded and fabricated with precision equipment and are suited to meet a variety of needs.

## DESIGNED FOR EFFICIENCY AND STRENGTH

All towers in the G Series are constructed with high strength steel tubing and feature ROHN's exclusive Zig-Zag<sup>®</sup> solid rod bracing to provide exceptional strength. All G Series Towers are hot dip galvanized after fabrication. In this process, each section of the tower is totally immersed in molten zinc, allowing every square inch of the tower, inside and out, to be completely covered. Hot dip galvanizing protects all points of welding and construction against rust and corrosion while providing an attractive finish.



# G SERIES

## 20G - HOME TV TOWER

The 20G is an ideal tower for home TV installations. It's designed and engineered for 2 square feet of antenna surface and will handle most home TV installations. Should a larger antenna be used, we recommend the 25G Series. The 20G tower is intended for bracketed installations only.

### FEATURES:

- Completely Hot Dip Galvanized after fabrication
- Accessories for 20G are same as the 25G and completely interchangeable
- Built on 12 1/2" equilateral triangle design
- High strength tubular legs joined by Zig-Zag® cross members
- Each 10' section contains all required nuts and bolts inside one leg
- Entirely welded and fabricated with precision equipment

## 25 G

The 25G is available in the standard 10' section length and a 7' length which is UPS shippable. The 25G uses double bolted joints, proven to be the best method of joining tower sections for sturdiness and dependability. The 25G tower can be used in guyed, self-supporting or bracketed configurations according to specifications in the ROHN catalog. As a guyed structure, the 25G can rise to a maximum of 190 feet. Self supporting and bracketed heights depend on loading and are also specified in the ROHN catalog.

### FEATURES:

- Completely Hot Dip Galvanized after fabrication
- Accessories for 20G are same as the 25G and completely interchangeable
- Built on 12 1/2" equilateral triangle design
- High strength tubular legs joined by Zig-Zag® cross members
- Each 10' section contains all required nuts and bolts inside one leg
- Entirely welded and fabricated with precision equipment
- Extra heavy-duty 1 1/4" steel tubing side rails
- Continuous solid steel rod bracing







## 45G COMMUNICATIONS TOWER

The 45G is a true multi-use structure that provides excellent strength for applications up to 300 feet. It's offered with either heavy steel tube or solid steel rod legs to satisfy a wide variety of needs under varied conditions. When properly installed, the standard tower will support loads as shown on various guyed and self-supporting information sheets in the ROHN catalog.

### FEATURES:

- Completely Hot Dip Galvanized after fabrication
- Heavy steel tube or solid steel rod side rails
- Built on 18" equilateral triangle design
- Utilizes 1 1/4" outside diameter, 14 gauge, special quality steel tubing or solid steel rod legs
- Zig-Zag® cross bracing is formed from a continuous 7/16" solid steel rod electrically welded every 15 3/4" on the side rails
- Each 10' sleeve is joined to the other and double bolted for extra strength

# 55G COMMUNICATIONS TOWER

Because of its rugged design, the 55G lends itself to a wide variety of uses in the communications field, particularly where unusual wind loading and height requirements exist. The 55G was designed to provide excellent strength in heights up to 400 feet. When properly installed, the standard tower will support loads as shown on various guyed and self-supporting information sheets in the ROHN catalog.

## FEATURES:

- Completely Hot Dip Galvanized after fabrication
- Heavy steel tube or solid steel rod side rails
- Built on 18" equilateral triangle design
- Utilizes high strength steel tubing side rails
- Zig-Zag® cross bracing is formed from a continuous 7/16" solid steel rod electrically welded every 15 3/4" on the side rails
- Each 10' sleeve is joined to the other and double bolted for extra strength
- Adaptable to varying heights and loading requirements







## 65G COMMUNICATIONS TOWER

The 65G is designed to provide excellent rigidity and strength in applications up to 500 feet when guyed, and 80 feet when self-supporting. This high strength design covers a wide variety of communication uses. The 65G is completely prefabricated in welded sections allowing for quick and convenient installation.

### FEATURES:

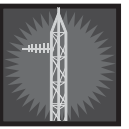
- Tower sections and all hardware are completely Hot Dip Galvanized after fabrication
- Utilizes 2" O.D. high strength steel side rails
- Built on 26 1/4" equilateral triangle design
- Utilizes high strength steel tubing side rails
- Zig-Zag® cross bracing is formed from a continuous 5/8" solid steel rod electrically welded every 22" on the side rails
- Completely prefabricated in welded sections



## 20G TOWER



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Sheet D-2751  
(Replaces D-2361)

## 20G Tower Economy Home TV Tower

Part No.	Description	WT
20G	10' tower section	30
20G7	7' towers section	21
20A	9' top section	26
20BG	3' top section	8-1/2
★ BPC25G	Concrete base plate (sits on a pier pin - order pier pin separately)	27
★ 3/4x12PP	Pier pin (for BPC25 - one required)	1

20G and 20G7 tower sections are constructed with 1-1/4" steel tubing side rails, with continuous steel solid rod Zig Zag cross bracing electrically welded throughout, and built on a 12-1/2" equilateral triangular design. Completely hot dip galvanized after fabrication.

ROHN 25G accessories fit the 20G and 20G7 tower.

The #20 tower is not recommended for commercial, ham, CB or guyed installations.

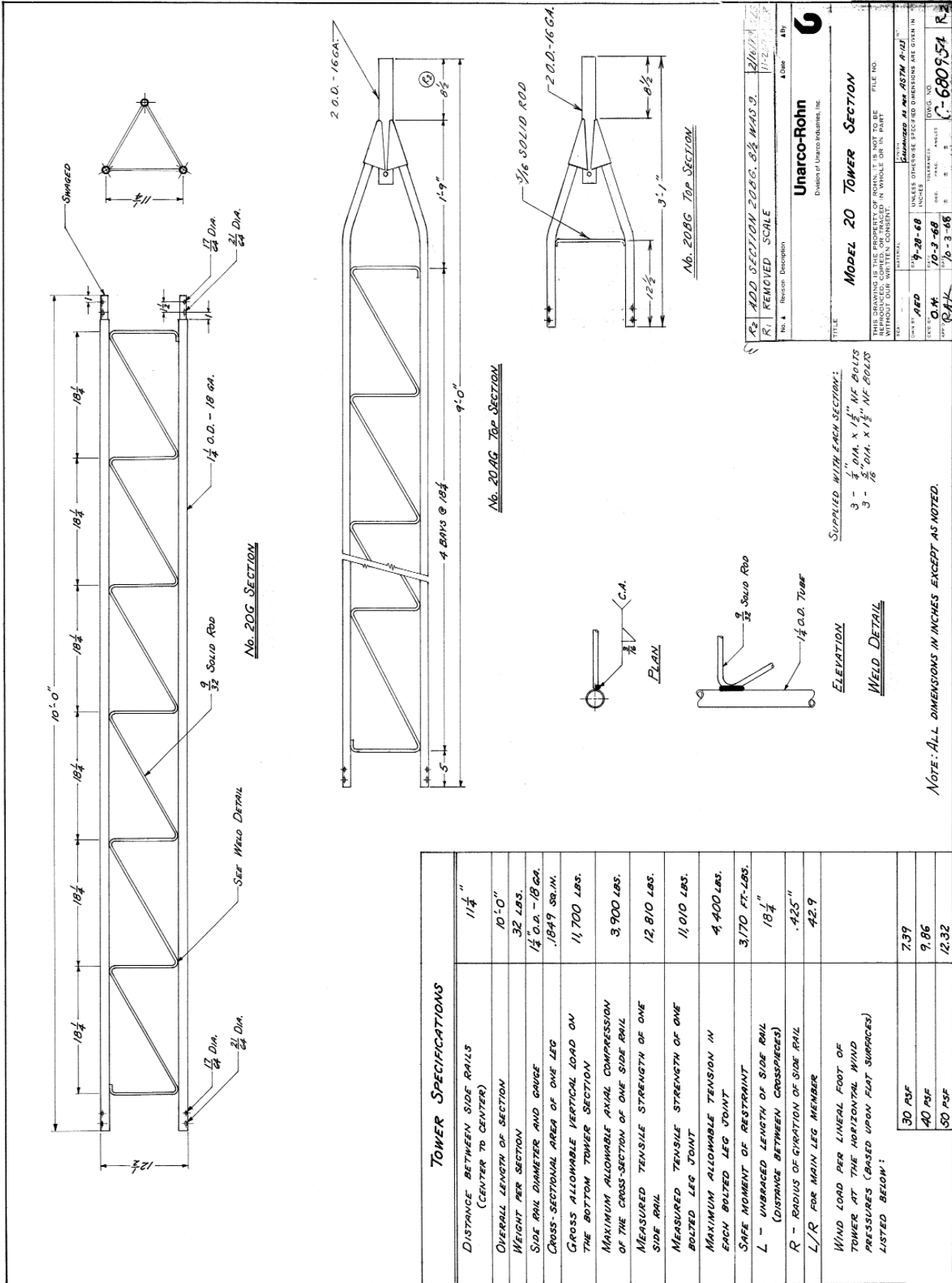
★ Towers mounted on this base must be bracketed or guyed at all times.

**Note:** The price on #20 sections will be higher on shipments to the following states: Arizona, California, Idaho, Montana, Nevada, oregon, Utah, Washington, and Wyoming.

Refer to alphabetical/numerical price list for current prices.

F.O.B. Peoria Illinois.

Specifications subject to change without notice.



TOWER SPECIFICATIONS	
DISTANCE BETWEEN SIDE RAILS (CENTER TO CENTER)	11 1/4"
OVERALL LENGTH OF SECTION	10'-0"
WEIGHT PER SECTION	32 LBS.
SIDE RAIL DIAMETER AND GAUGE	1 1/2" O.D. - 18 GA.
CROSS-SECTIONAL AREA OF ONE LEG	.1849 SQ. IN.
GROSS ALLOWABLE VERTICAL LOAD ON THE BOTTOM TOWER SECTION	11,700 LBS.
MAXIMUM ALLOWABLE AXIAL COMPRESSION OF THE CROSS-SECTION OF ONE SIDE RAIL	3,900 LBS.
MEASURED TENSILE STRENGTH OF ONE SIDE RAIL	12,810 LBS.
MEASURED TENSILE STRENGTH OF ONE BOLTED LEG JOINT	11,010 LBS.
MAXIMUM ALLOWABLE TENSION IN EACH BOLTED LEG JOINT	4,400 LBS.
SAFE MOMENT OF RESTRAINT	3,170 FT.-LBS.
L - UNBRACED LENGTH OF SIDE RAIL (DISTANCE BETWEEN CROSSRAILS)	18 1/4"
R - RADIUS OF CURVATURE OF SIDE RAIL	.425"
L/R FOR MAIN LEG MEMBER	42.9
WIND LOAD PER LINEAL FOOT OF TOWER AT THE HORIZONTAL WIND PRESSURES (BASED UPON FLAT SURFACES) LISTED BELOW:	
30 PSF	7.39
40 PSF	9.86
50 PSF	12.32

No. 20BG Top SECTION  
 No. 20AG Top SECTION  
 No. 20G SECTION  
 No. 20B SECTION 20BG, 20AG, 20G, 20A  
 REMOVED SCALE  
 UNarco-Rohn  
 Division of Unarco Industries, Inc.  
 MODEL 20 TOWER SECTION  
 THIS DRAWING IS THE PROPERTY OF UNARCO. IT IS NOT TO BE REPRODUCED, COPIED, OR FRAMED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.  
 DATE: 10-3-68  
 DRAWN BY: RAK  
 CHECKED BY: RAK  
 APPROVED BY: RAK  
 FILE NO. C-68095A R2  
 UNARCO INDUSTRIES, INC. 10-3-68

SUPPLIED WITH EACH SECTION:  
 3 - 1/4" DIA. x 1 1/2" NF BOLTS  
 3 - 1/2" DIA. x 1 1/2" NF BOLTS

ELEVATION  
 WELD DETAIL  
 NOTE: ALL DIMENSIONS IN INCHES EXCEPT AS NOTED.



## 25G TOWER



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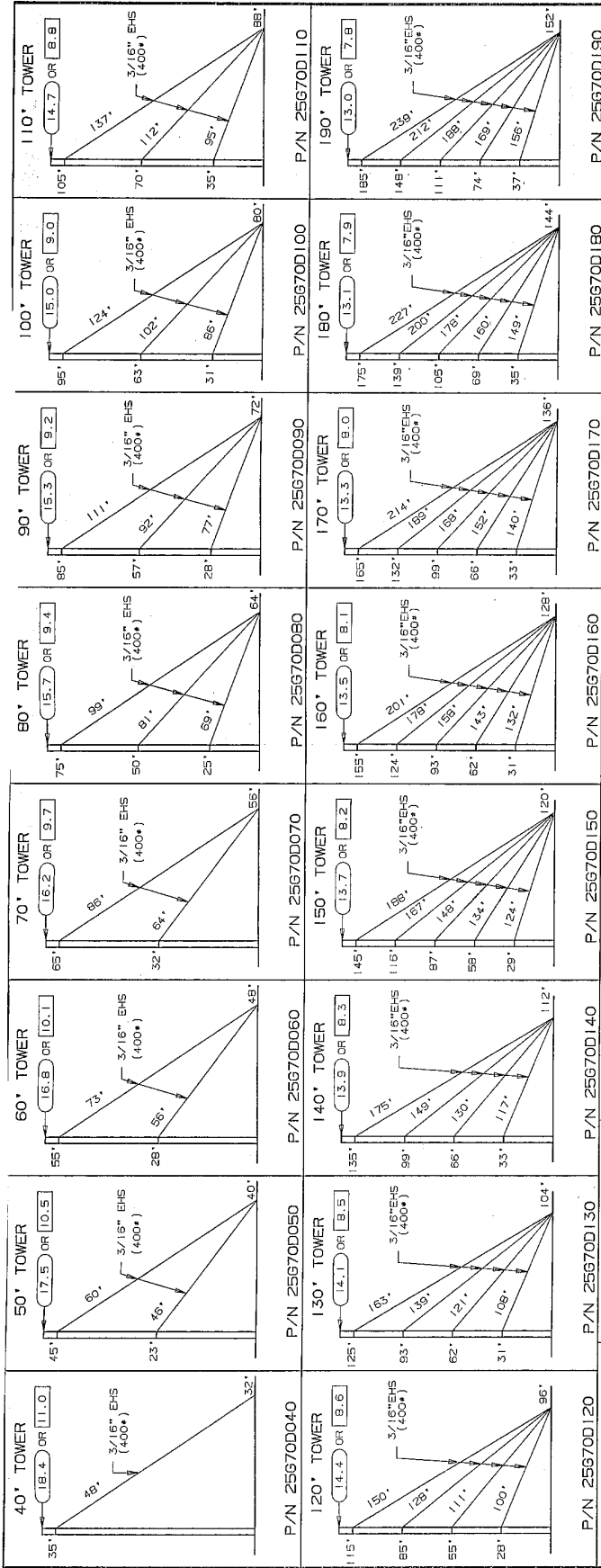


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## 25G TOWER

Part No.	Description	Wt.
25G	10' tower section	40
25G7	7' tower section	28
25AG	9' top section. Mast support tube is 2" O.D. tube with bushing and set screw installed	31
25AG1	Top Section. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12" above apex of side rails	31
25AG2	Top Section. Mast support tube is 2-1/4" O.D. tubing, 36" total length, extending 18" above apex of side rails	31
25AG3	Top Section. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit	31
25AG4	7' top section. Upper end terminates in flat, triangular with 3-1/8" diameter hole in center. Drilled to accept TB3 or TB4 thrust bearing.	31
25AG5	Top section. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing 18" total length.	31
25T	10' tapered base section (for use with 3/4"x12PP pier pin).	60
25TGIA	10' tapered base section (for use with A4197L base insulator)	75
25R	10' insulator section for 25G tower (includes 3#10470 post insulators)	74
25ACL	10' anti-climb section	115
25ACL3	3 anti-climb metal sheets for attaching to tower section	65
25JBK	Join bolt kit	1
APL25G	Beacon plate	14
SB25G	3'-4' short base section for use in concrete	10
SB25G5	5' short base section for use in concrete	19
SBH25G	3'-4' hinged short base section for use in concrete	14
BPC25G	Concrete base plate (sits on a pier-order pin separately)	27
3/4X12PP	Pier Pin (for BPC25G or 25TGA - one required)	1
BPH25G	Hinged base plate for concrete	21
1/2x12BB	Concrete base bolt with double nuts (for BPH25G - four required)	1
BP25G	Field base plate, use with DR25G drive rod set	7
DR25G	2' drive rods, set of 3, for use with BP25G base plate	6
DT25	Drive tool for DR25G drive rod	17
SDB25G	Single field drive-in base plate assembly	20
PR25G	Peak roof base assembly, with adjustable hinged feet	14
FR25G	Flat roof mount	24
GA25GD	Guy bracket assembly	11
TB25D	Torque bars (for use with GA25GD guy bracket - requires 3 shackles, 3/8" maximum size - order separately)	6
3/8S	3/8" shackle	1
HBU	Universal house bracket (6" to 30")	15
HBUTVRO	Universal house bracket (18" to 36")	38
HB25AG0-15"	Adjustable house bracket - 15" standoff	8
HB25AG0-24"	Adjustable house bracket - 24" standoff	11
HB25AG0-36"	Adjustable house bracket - 36" standoff	17
EB2525G	Universal eave bracket with hinged connection for pitched roof	7
TB50	Tower bushing for 45AG top (1-1/4" I.D. x 2" O.D.)	1
TB75	Tower bushing for 45AG top (1-1/2" I.D. x 2" O.D.)	1
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing (fits 25G4 top section)	3
TB25D	Torque bars (for use with GA25GD guy bracket - requires 3 shackles, 3/8" maximum size - order separately)	3
BPL 25G	Top plate with guy lugs for mounting TB3 or TB4 bearing	12
RP25G	Rotor post, left	3
RP25G CM	Rotor post, left	2
AS25G	Accessory shelf for mounting rotor	4
BA25G	Bearing/Accessory shelf assembly	18
SA253UA	Side arm assembly, 2-1/2" to 3" extension, with 2-1/4" support tube	28
UHF25G	Side arm only of SA253UA	4
KY2068A16	DBS antenna support assembly with 1.66" O.D. mounting tube	23
KY2068A15	DBS antenna support assembly with 1.5" O.D. mounting tube	24
KY2068A2	DBS antenna support assembly with 2-3/8" O.D. mounting pipe	32
TA25	Torque arm stabilizer assembly	35
25DMKD	Top dish mount. Top plate has guy lugs and set screws to secure mounting pipe	30
DM25G2	Face dish mount w/2" (2-3/8" O.D.) x 5' long standard pipe	42
WP25G	Work platform	10
SR245	Safety ring	8
2590MM	90 degree joint, male/male connection	12
2590FM	90 degree joint, female/male connection	11
2590FF	90 degree joint, female/male connection	10
EF2545	Aluminum erection fixture, 12' long (fits all models with 1-1/4" side rails). Use only to raise one 10' section or any part of a section at one time. Not intended to be used for lifting individuals.	20
P2545	Pole only for EF2545	12
H2545	Head only for EF2545	8



**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSIZETA-222-E-1961 (NO ICE) (50 FT.) FOR ROUND WIRELESS ANTENNAS. ALLOWABLE PROL. AREA (SQ. FT.) FOR FLAT WIRELESS ANTENNAS. EQUIVALENT FLAT-PLATE ANTENNA AREA, BASED ON EIA RS-222-C. ANTENNA AND MOUNTS ARE ASSUMED TO BE AT THE TOWER APEX.
2. DESIGN ASSUME ONE 5/8" DIA. LINES ON EACH TOWER FACE.
3. GROUND RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH ANCHOR ROD.
4. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. 4871382.
5. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, SHALL BE INSTALLED WITHIN 15' OF THE TOWER APEX.
6. ALL NATIONAL CODES, HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. 8660324 LATEST REVISION.
7. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. TABLE INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 80 PERCENT TENSION.
8. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
9. PERSONNEL ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
10. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, SHALL BE INSTALLED WITHIN 15' OF THE TOWER APEX.
11. ALL ANTENNA INSTALLATIONS MUST BE GROUND IN ACCORDANCE WITH LOCAL ELECTRICAL CODES.
12. EXCEPT AS NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES.
13. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. 4871382.
14. FOR DETAILS SEE DWG. 8660324 LATEST REVISION.

TOWER HT.	BASE PIER		INNER ANCHOR DATA		ANCHOR ROD SLOPE				
	NO.	REAC. LBS.	ROD NO.	ROD SLOPE	HOR. VERT.	REAC. LBS.			
40'	CB1	1,800	4A	GAR30	47.7	10.9	12	710	780
50'	CB1	2,390	4A	GAC303	41.8	12	10.7	1,140	1,020
60'	CB1	2,530	4A	GAC303	42.1	12	10.9	1,190	1,070
70'	CB1	2,680	4A	GAC303	41.9	12	10.8	1,250	1,120
80'	CB1	3,350	4A	GAC303	39.3	12	9.8	1,700	1,400
90'	CB1	3,510	4A	GAC303	39.4	12	9.9	1,780	1,460
100'	CB1	3,650	4A	GAC303	39.4	12	9.8	1,850	1,530
110'	CB1	3,820	4A	GAC303	39.4	12	9.8	1,950	1,620
120'	CB1	4,150	4A	GAC305	37.5	12	9.2	2,480	1,900
130'	CB1	4,750	4A	GAC305	37.7	12	9.3	2,850	1,990
140'	CB1	4,910	4A	GAC305	37.5	12	9.2	2,880	2,050
150'	CB1	5,740	4A	GAC305	36.7	12	9.0	3,240	2,410
160'	CB1	5,920	4A	GAC305	36.6	12	9.0	3,360	2,500
170'	CB1	6,150	4A	GAC305	36.8	12	9.0	3,490	2,610
180'	CB1	6,340	4A	GAC305	36.7	12	9.0	3,630	2,700
190'	CB1	6,520	4A	GAC305	36.7	12	9.0	3,730	2,780

R4	11-22-94	ROB	4/22	TS
R3	REV. NOTE NO. 3.	ROB	10/1	TS
R2	REV'D DES. NOTES WAS REV'D. NEW REVISE	ROB	10-22	TS
R1	CHANGED NOTE 7 TO NOTE 6 IN TOWER PLAN TYPICAL	CSB	4/16	TS
No. Revision Description Date Rev By				
R4 11-22-94 ROB 4/22 TS				
R3 REV. NOTE NO. 3. ROB 10/1 TS				
R2 REV'D DES. NOTES WAS REV'D. NEW REVISE ROB 10-22 TS				
R1 CHANGED NOTE 7 TO NOTE 6 IN TOWER PLAN TYPICAL CSB 4/16 TS				

**ROHN**

Title: GUYING DETAILS FOR 40'-190' 25G TOWERS TO 70 MPH BASIC WIND SPEED (NO ICE)

Drawn: WFF 9/24/87

Appr. Eng.: RAM 10/22/87

Rev. Engr.: AE 2/12/88

DRAWING NO.: CB70484 R4



Parts List P-622

January 1, 1996

(Replaces P-558)

## Parts List for #25G Guyed Towers

70 MPH Basic Wind Speed (No Ice)

### Tower Height

Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'
25G	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
25AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC25G w/3/4 x 12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GA25GD	1	2	2	2	3	3	3	3	4	4	4	5	5	5	5	5
G.W. 3/16" EHS	175'	350'	425'	500'	800'	900'	1000'	1100'	1575'	1700'	1825'	2425'	2650'	2825'	2925'	3175'
BG2142	6	12	12	12	18	18	18	18	24	24	24	30	30	30	30	30
5/16" THH	6	12	12	12	18	18	18	18	24	24	24	30	30	30	30	30
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9	9	12	12	12	15	15	15	15	15
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GAC303	*	3	3	3	3	3	3	3								
GAC305									3	3	3	3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028 Clamp	3	6	6	6	9	9	9	9	12	12	12	15	15	15	15	15
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

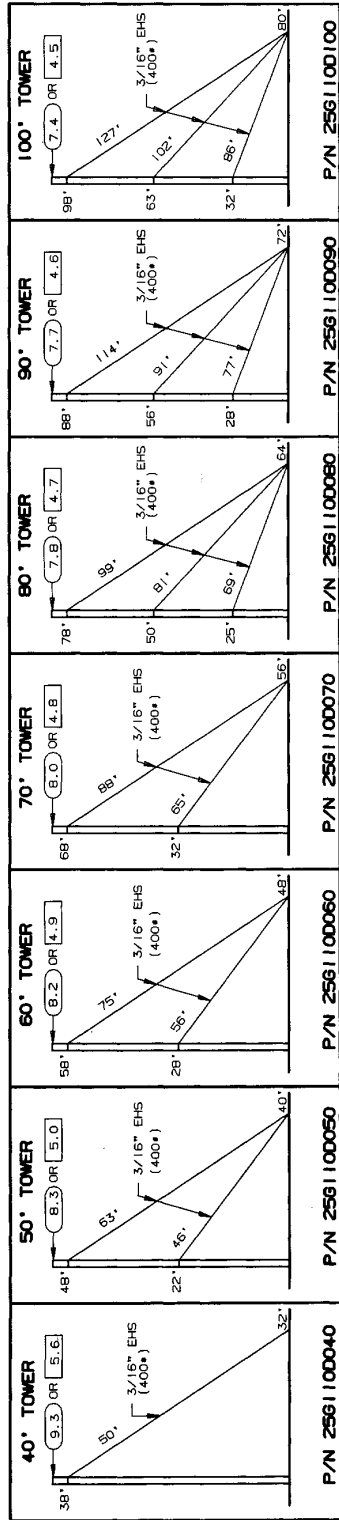
\* **Note:** For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

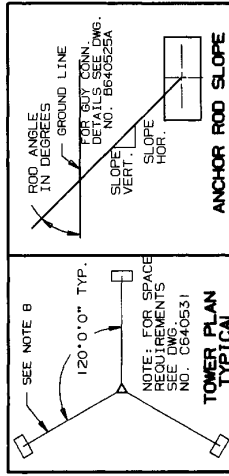
Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger-Watch for Wires labels along with other printed safety information.

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



**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1981 (NO ICE) (50 FT.) FOR ROUND MEMBER ANTENNAS, ALLOWABLE PROJ. AREA (50 FT.) FOR FLAT MEMBER ANTENNAS, EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C. NOT TO EXCEED THE AREAS SHOWN ON METRICAL MEMBER AGED AT THE TOWER APPEX.
2. DESIGN ASSUMES ONE 5/8" DIA. LINES ON EACH TOWER FACE.
3. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GUY.
4. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
5. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND, ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT DEGREES FAHRENHEIT.
6. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRIC LINES OR POWER LINES.
7. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
8. STEEL GUYS, WHEN REQUIRED, DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTI-TWIST INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B680324 LATEST REVISION.



TOWER HT.	BASE PIER		ANCHOR ROD DATA		REAC. LBS.			
	NO.	REAC. LBS.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	REAC. LBS. HOR. VERT.		
40'	CB1	2,650	4A	GAR30	49.8	10.1	1,210	1,480
50'	CB1	3,120	4A	GAC303	41.3	12	1,680	1,830
60'	CB1	3,490	4A	GAC303	41.6	12	1,830	1,900
70'	CB1	3,690	4A	GAC303	41.2	12	2,050	2,190
80'	CB1	4,650	4A	GAC303	39.2	12	2,690	2,400
90'	CB1	5,040	4A	GAC303	39.0	12	2,960	2,400
100'	CB1	5,400	4A	GAC303	39.1	12	3,150	2,560

CHANGED REACTIONS		REV. NO.		DATE	
R1	EIA-222-E-1981 WAS EIA-222-D	10-4-88	BRT	12/24	JH
R2		5-21-92	RKB	MDU	TS
R3		12-9-91	RKB	MDU/KIL	TS

▲ Revision Description ▲ Date ▲ Rev. By ▲ Crk. By ▲ App'd By

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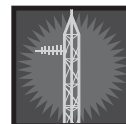
Scale:	ONE	By:	RKB	Date:	12-27-90
Drawn:	KKG	Checked:	KKG	App. Eng.:	TS
App. Supv.:	AE	App. Date:	2-21-91	Eng. File:	

**R O H N**

**BUYING DETAILS FOR 40'-100' 25G TOWERS 110 MPH BASIC WIND SPEED (NO ICE)**

DRAWING NO.: C90204 | R3





Parts List P-623  
(Replaces P-574)

January 1, 1996

## Parts List for #25G Guyed Towers

90 MPH Basic Wind Speed (No Ice)

### Tower Height

Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'
25G	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
25AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC25G w/3/4 x 12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GA25GD	1	2	2	2	3	3	3	3	4	4	4	5	5	6	6	6
G.W. 3/16" EHS	175'	350'	425'	500'	800'	900'	1000'	1100'	1575'	1750'	1825'	2425'	2650'	2775'	3000'	3150'
BG2142	6	12	12	12	18	18	18	18	24	24	24	30	30	36	36	36
5/16" THH	6	12	12	12	18	18	18	18	24	24	24	30	30	36	36	36
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9	9	12	12	12			6	6	6
T.B. 1/2 x 12 E&J												15	15	12	12	12
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6
GAC303	*	3	3	3	3	3	3	3						3	3	3
GAC305									3	3	3					
GAC3455											3	3	3	3	3	
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
340028 Clamp	3	6	6	6	9	9	9	9	12	12	12	15	15	18	18	18
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

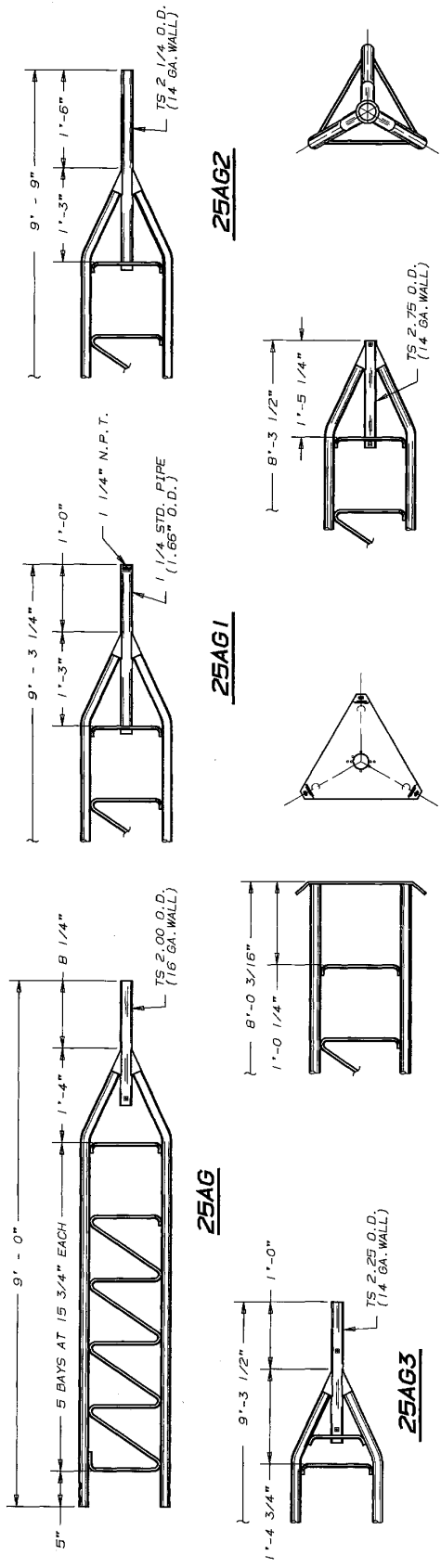
\* **Note:** For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

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**25AG**

**25AG1**

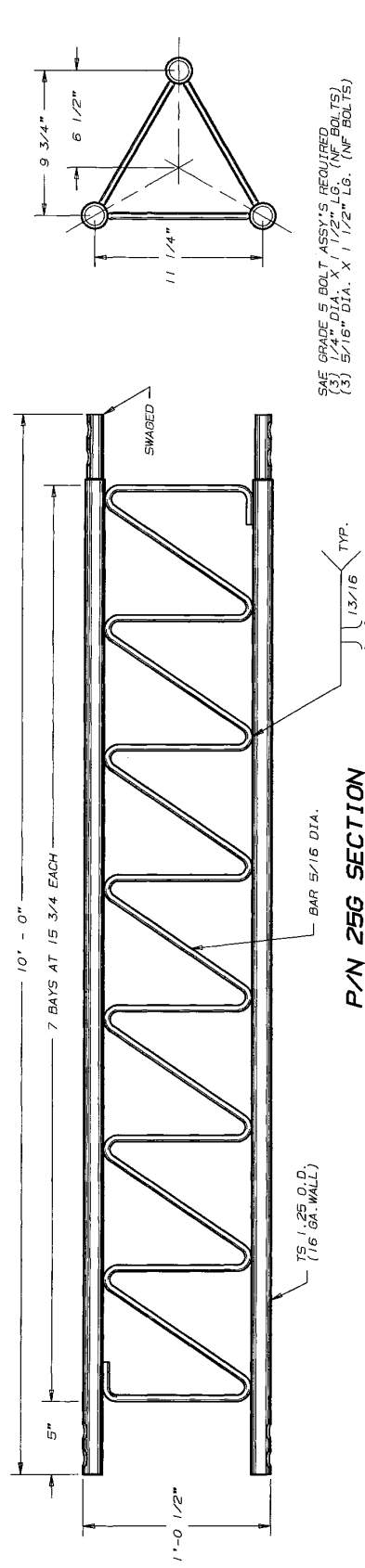
**25AG2**

**25AG3**

**25AG4**

**25AG5**

**TYPICAL PLAN VIEW**  
(FOR ALL SECTIONS EXCEPT 25AG4)



**P/N 25G SECTION**

**NOMENCLATURE**

- A = GROSS SECTIONAL AREA (SQ. INCHES)
- C = COMPRESSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- I = MOMENT OF INERTIA ABOUT CENTROIDAL AXIS (INCHES<sup>4</sup>)
- F<sub>y</sub> = MINIMUM YIELD STRENGTH (KSI)
- K = EFFECTIVE LENGTH FACTOR (DIMENSIONLESS)
- L = UNBRACED LENGTH (INCHES)
- M = STRESS CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (FT. KIPS)
- N/A = NOT APPLICABLE
- S = ELASTIC SECTION MODULUS (INCHES<sup>3</sup>)
- T = TENSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- W = WEIGHT PER FOOT (POUNDS)
- W<sub>s</sub> = WEIGHT PER SECTION (POUNDS)

SEC. >>>	25G TOWER SECTION PROPERTIES	SECTION
SIZE	TS 1.25 ODX .065 WALL	N/A
F <sub>y</sub>	50.0	N/A
A	0.2420	0.726
S	0.0692	2.15
I	0.0426	15.3
r	0.4196	4.59
L	15.7500	VARIES
K	1.0	1.0
KL/r	37.5	167.6
C	6.43	N/A
T	N/A	N/A
M	0.82	6.72
W	0.82	4.0
W <sub>s</sub>	26.0	40.0

NOTE: CAPACITIES SHOWN ARE BASED ON ANSI/EIA-222-E-1991.

REV'D EIA-222-D-1986 TO EIA-222-E-1991	9-10-91	RKB	TS
REDRAWN AND REVISED	8/1/91	CSB	RWB
REV'D EIA-222-E-1991	2/16/98	GSW	WJU
REVISION DESCRIPTION	▲ Date ▲ Rev. By ▲ Ck. By ▲ App. By		

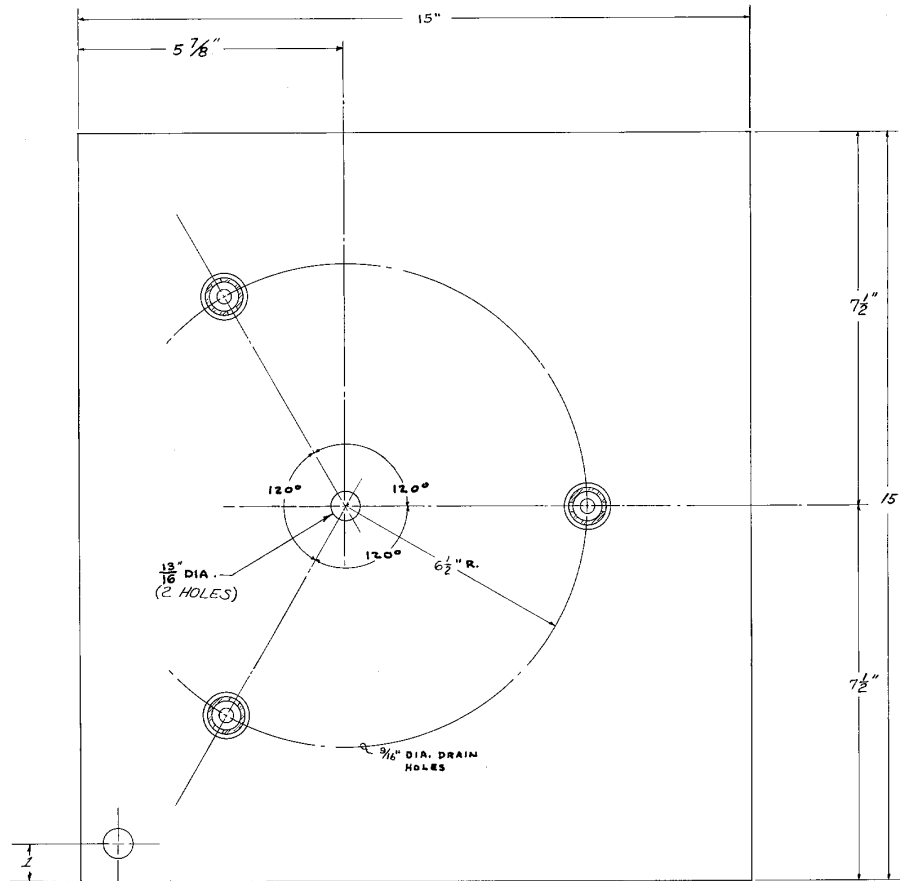
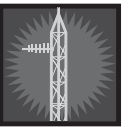
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Scale: NONE  
 Drawn: GSW 2/16/98  
 Checked: WJU 2/24/98  
 App. Eng.: RAM 2/25/98  
 App. Sketch: AE 2/25/98

**ROHN**

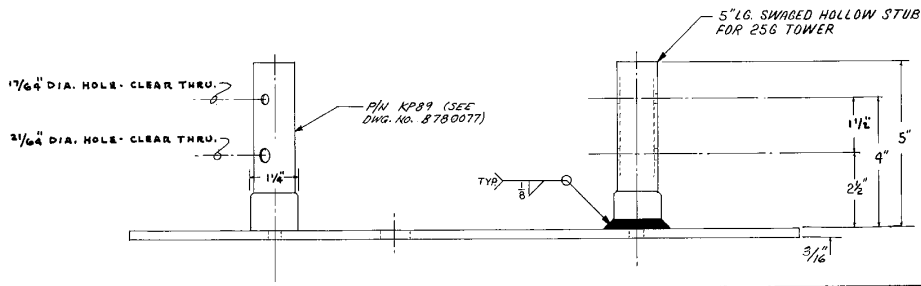
**25G SECTION ASSEMBLY**

DRAWING NO. **0830625 R9**



**PLAN**

*NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.*



**ELEVATION**

TEMPORARY STEEL GUYING IS NECESSARY DURING INSTALLATION AND DISMANTLING.

**BASE PLATE FOR CONCRETE PIER (BPC 25G)**

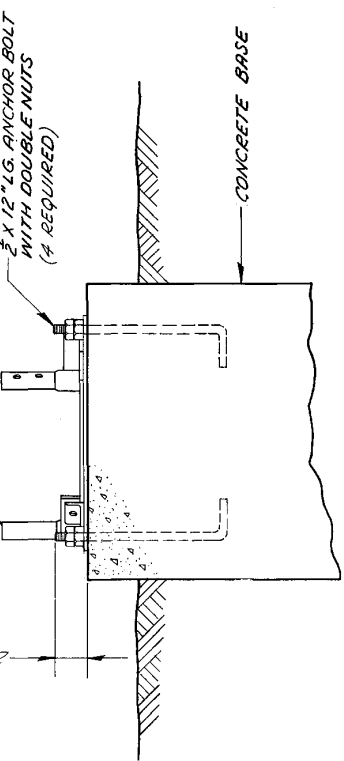
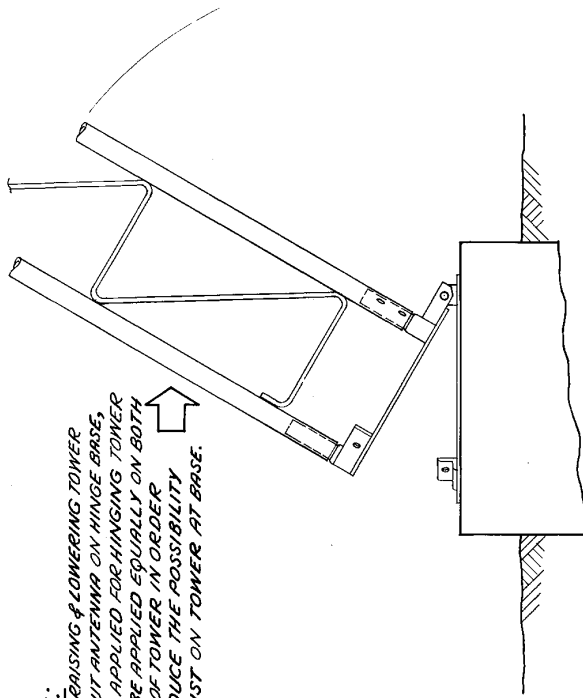
**NOTE:**

FOR USE WITH GUYED AND BRACKETED TOWERS ONLY

		R1 REVISED 3-22-73 D.M.		R2 REVISED 6-5-64 O.H.	
REVISED	DATE	BY	REASON	CUSTOMER	TITLE
R1	7-17-92	WJH	REVISED	ROHN MFG. PEORIA, ILLINOIS	BASE PLATE FOR MODEL 25 TOWER DRAWING NO. C 610831R9
R2	12-6-80	FHT	REVISED		
R3	7-17-92	WJH	REVISED		
R4	12-6-80	FHT	REVISED		
R5	7-26-78	AED	CHANGED		
R6	8-31-78	WJR	DELETE		
R7	7-28-61	WJR	ADDED		
R8	1-9-75	ROB	REVISED		
R9	11-24-73	JER	ADDED		



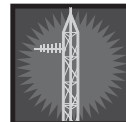
NOTE:  
 WHEN RAISING & LOWERING TOWER  
 WITHOUT ANTENNA ON HINGE BASE,  
 LOADS APPLIED FOR HINGING TOWER  
 MUST BE APPLIED EQUALLY ON BOTH  
 SIDES OF TOWER IN ORDER  
 TO REDUCE THE POSSIBILITY  
 OF TWIST ON TOWER AT BASE.



NOTE: TOWERS MOUNTED ON THIS BASE MUST BE BRACKETED OR GUYED

IMPORTANT: BE SURE HINGE BOLTS ARE  
 LOOSENED BEFORE ATTEMPTING TO FOLD TOWER OVER.  
 NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS,  
 IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO  
 PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR  
 CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER  
 OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER  
 TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL  
 BUILDING CODES.

REV	ADDED NOTE	9-17-75	DA
2	REVISED NOTE	8-27-75	DA
REVISIONS			
NO.	DESCRIPTION	DATE	BY
ROHN® MANUFACTURING			
DIVISION OF			
TITLE			
BPH25G INSTALLATION			
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DATE	BY	DATE	FILE NO.
2-12-75	DA	2-12-75	
3-20-75	DA	3-20-75	
3-20-75	DA	3-20-75	
DRAWING NUMBER			
C-750112			
DWG. NO.			
C-750112			
PRINTED IN U.S.A.			

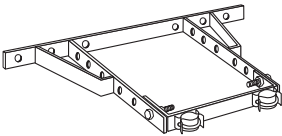
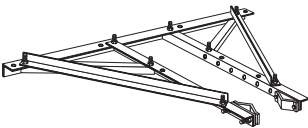
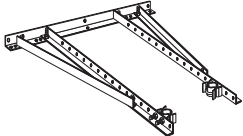
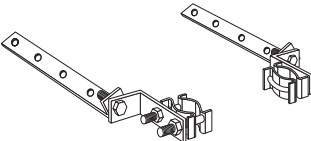
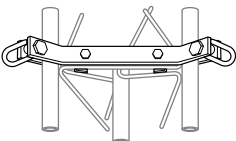
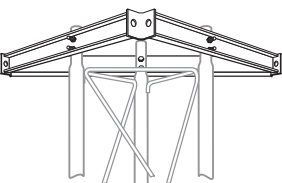
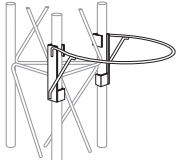
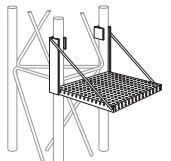


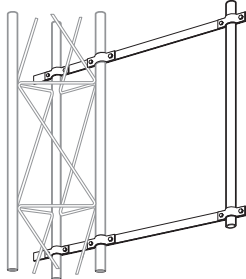
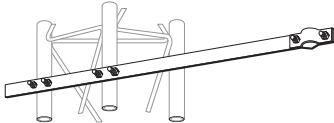
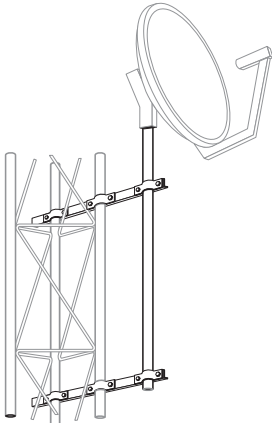
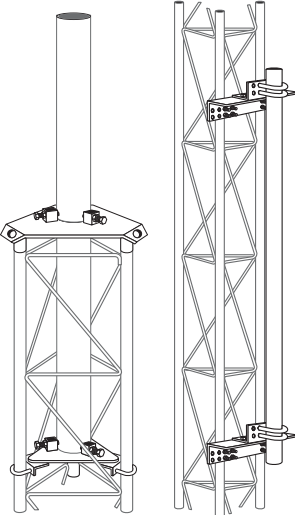
	<p><b>3'4" Short Base</b> SB25G Base section for embedment in concrete.</p> <p><b>5' Short Base (not shown)</b> SB25G5 Base section for embedment in concrete.</p> <p><b>3'4" Hinged Short Base</b> SBH25G* Base section for embedment in concrete. Hinged connection to bottom</p>		<p><b>Concrete Base Plate</b> BPC25G* For use with pier pin embedded in concrete.</p> <p><b>Pier Pin</b> 3/4X12PP Must be ordered separately.</p>
	<p>(Left) <b>Standard 25G Section</b> 25G Standard 10' section with seven bays of bracing and swaged, double-bolted connections.</p> <p><b>7' 25G Section</b> 25G7 (not shown) Same design and materials as 10' section, but only 7' long to allow UPS shipping.</p> <p>(Left Center) <b>10' Insulator Section</b> 25RG*</p> <p>(Right Center) <b>Anti-Climb Section</b> 25ACL Used as bottom section to help prevent unauthorized climbers.</p> <p><b>Anti-Climb Panels</b> 25ACL3 (not shown) Three anti-climb panels to bolt to existing standard tower section.</p> <p>(Right) <b>Tapered Base</b> 25TGA* Can be used with RACAL DECCA A4197L base insulator or with 3/4X12PP.</p>		<p><b>Single Drive-In Base</b> SDB25G* To be driven directly into ground.</p>
	<p><b>Base Plate</b> BP25G For use with drive rods. Tower must be guyed or bracketed.</p> <p><b>2' Drive Rods</b> DR25G* Set of 3 drive rods for use with BP25G base plate.</p> <p><b>Drive Tool</b> DT25 For DR25G/BP25G installation. Slips over top of drive rod to protect from damage during installation.</p>		<p><b>Peak Roof Mount</b> PR25G* Adjustable hinged feet conform to nearly any roof pitch. Bolts to roof surface.</p>
	<p><b>Flat Roof Mount</b> FR25G* Bolts directly to flat roof surface</p>		<p><b>Hinged Base Plate</b> BPH25G* Bolts to concrete. Hinged to allow tower to be rotated up from base during installation.</p> <p><b>Base Bolts</b> 1/2X12BB Must be ordered separately.</p>
	<p><b>90 Degree Joints</b> 2590MM 2590FM 2590FF Unique 90 degree joints allows the connection of 25G sections for a variety of purposes. Popular in theatrical staging and overhead lighting.</p> <p>Joint styles include (2590MM) both ends swaged, (2590FF) both ends open, and (2590FM) a combination one end swaged the other open.</p> <p>Joints are not drilled where they slip fit to 25G sections. Can be filed drilled or custom connected to meet particular needs.</p>		<p><b>90 Degree Joints</b> 2590MM 2590FM 2590FF Unique 90 degree joints allows the connection of 25G sections for a variety of purposes. Popular in theatrical staging and overhead lighting.</p> <p>Joint styles include (2590MM) both ends swaged, (2590FF) both ends open, and (2590FM) a combination one end swaged the other open.</p> <p>Joints are not drilled where they slip fit to 25G sections. Can be filed drilled or custom connected to meet particular needs.</p>

\* Towers mounted on these bases must be bracketed or guyed at all times. Temporary steel guying may also be necessary during installation and dismantling.





	<p><b>Adjustable House Bracket</b>            HB25AG0-15"            HB25BG0-24" (not shown)            HB25CG0-36" (not shown)</p>
	<p><b>Heavy Duty Universal House Bracket</b>            HBUTVRO            Adjustable to position tower from 18" to 36" from wall.</p>
	<p><b>Universal House Bracket</b>            HBU            Adjustable to position tower from 6" to 30" from wall.</p>
	<p><b>Universal Eave Bracket</b>            EB2525G            Hinged connection allows tower leg clamps to remain perpendicular to ground while bolt-down supports rotate to lay flat along pitched roof or eave.</p>
	<p><b>Guy Bracket</b>            GA25GD            Mounts to any tower at any horizontal brace.  <b>Torque Bars</b>            TB25D (not shown)            Optional, for use with GA25GD</p>
	<p><b>Torque Arm Stabilizer Assembly</b>            TA25            Anti-twist device located in the area of antennas. Provides six-way guying. Bolts to tower at any section joint. Attached with joint bolts. Must be installed as sections are joined together.</p>
	<p><b>Safety Ring</b>            SR245            Snaps into place at any level. No bolts required.</p>
	<p><b>Work Platform</b>            WP25G            Snaps into place at any level. No bolts required.</p>

	<p><b>Side Arm Bracket</b>            SA253UA            Provides 3' stand-off from tower. Distance from top to bottom bracket adjustable depending on length of antenna mounting tube. Mounting tube provide is 3' long, 2-1/4" O.D.</p>
	<p><b>Side Arm Mount</b>            UHF25G            For UHF &amp; FM antennas. Fastens with saddle clamps (shown in SA253UA drawing above).</p>
	<p><b>DBS Antenna Support</b>            KY2068A16            1.66" O.D. mounting tube            KY2068A15            1.5" O.D. mounting tube            KY2068A2            2" STD/2-3/8" O.D. mounting pipe            Above assemblies are hot dip galvanized. Antenna Support Assembly includes support brackets, clamps, and mounting pipe. Below assemblies are pregalvanized.            DDM166            1.66" O.D. mounting pipe            DDM150            1.5" O.D. mounting pipe            DDM238            2" STD/2-3/8" O.D. mounting pipe</p>
	<p>(Left)  <b>Top Dish Mount</b>            25TDMKD            Top plate includes built in guy lugs. Bolts to swaged top of standard section. Lower plate connects with U-bolts. Set screws secure mounting pipe.              (See drawing C850314R1) for mast sizes and assembly.)              (Right)  <b>Face Dish Mount</b>            DM25G2            Mounting pipe included is 5' long, 2" STD.</p>



## 45G TOWER



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

Blank



Sheet D-2887  
(Replaces D-2535)

## 45G TOWER

Part No.	Description	Wt.
45G	10' tower section	70
45AG	9' top section	52
⌘ 45AG1	Top Section. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12" above apex of side rails.	60
45AG2	Top Section. Mast support tube is 2-3/8" O.D. tubing, 36" total length, extending 18" above apex of side rails.	60
45AG3	Top Section. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit snugly inside support tube.	60
45AG4	7' top section. Upper end terminates in flat, triangular plate with 3-1/8" diameter hole in center. Drilled to accept TB3 or TB4 thrust bearing.	52
⌘ 45AG5	Top section. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing, 18" total length.	60
★ 45TG	10' tapered base section (sits on a pier pin - order pier pin separately)	90
★ 45TGIA	10' tapered base section (for use with A4197L base insulator)	114
★ 45TGIA47	10' tapered base section (for use with A4722B base insulator)	114
★ 45RG	10' insulator section for 45G tower (includes 3 # 10470 post insulators)	104
45ACL	10' anti-climb section	165
455ACL3	3 anti-climb metal sheets for attaching to tower section	120
5545G	20' adapter section for joining 45G and 55G sections	160
45JBK	Joint bolt kit	3/4
APL45G	Beacon plate	17
SB45G	5' short base section for use in concrete	35
★ PBC45G	Concrete base plate (sits on pier - order pin separately)	39
★ 3/4X12PP	Pier pin (for BPC45G or 45TG - one required)	1
★ BPH45G	Hinged base plate for concrete	80
★ 5/8X12BB	Concrete base bolt with double nuts (for BPH45G - four required)	1
★ FR45G	Flat roof mount	34
AS455G	Accessory shelf. Triangular plate for mounting most popular Ham rotors. Can be drilled if needed.	8
GA45GD	Guy bracket assembly	23
TB45D	Torque bars (for use with GA45GD guy bracket) (requires 3 shackles, 3/8" maximum size - order separately)	10
3/8S	3/8 shackle	25/100
HBU	Universal house bracket (6" to 30")	15
HBUTVRO	Universal house bracket (18" to 36")	38
TB50	Tower bushing for 45AG top (1-1/4" I.D. x 2" O.D.)	1/2
TB75	Tower bushing for 45AG top (1-1/2" I.D. x 2" O.D.)	1/2
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing (fits 45AG4 top section)	2-1/2
TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing (fits 45AG4 top section)	3
BPL45G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	17
SA253UA	Side arm assembly, 2-1/2" to 3' extension, with 2-1/4" support tube	28
TA45	Torque arm stabilizer assembly	56
45TDMKD	Top Dish Mount (knock down)	62
DM45G2	Face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	52
DM454	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	88
WP45G	Work platform	14
SR245	Safety ring	8
EF2545	Aluminum erection fixture, 12' long (fits all models with 1-1/4" side rails) (Use only to raise one 10' section or any part of a section at one time. Not intended to be used for lifting individuals)	20
P2545	Pole only for EF2545	12
H2545	Head only for EF2545	8

**Note:** The price on #45 and #5545G sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

⌘ Available by special order only.

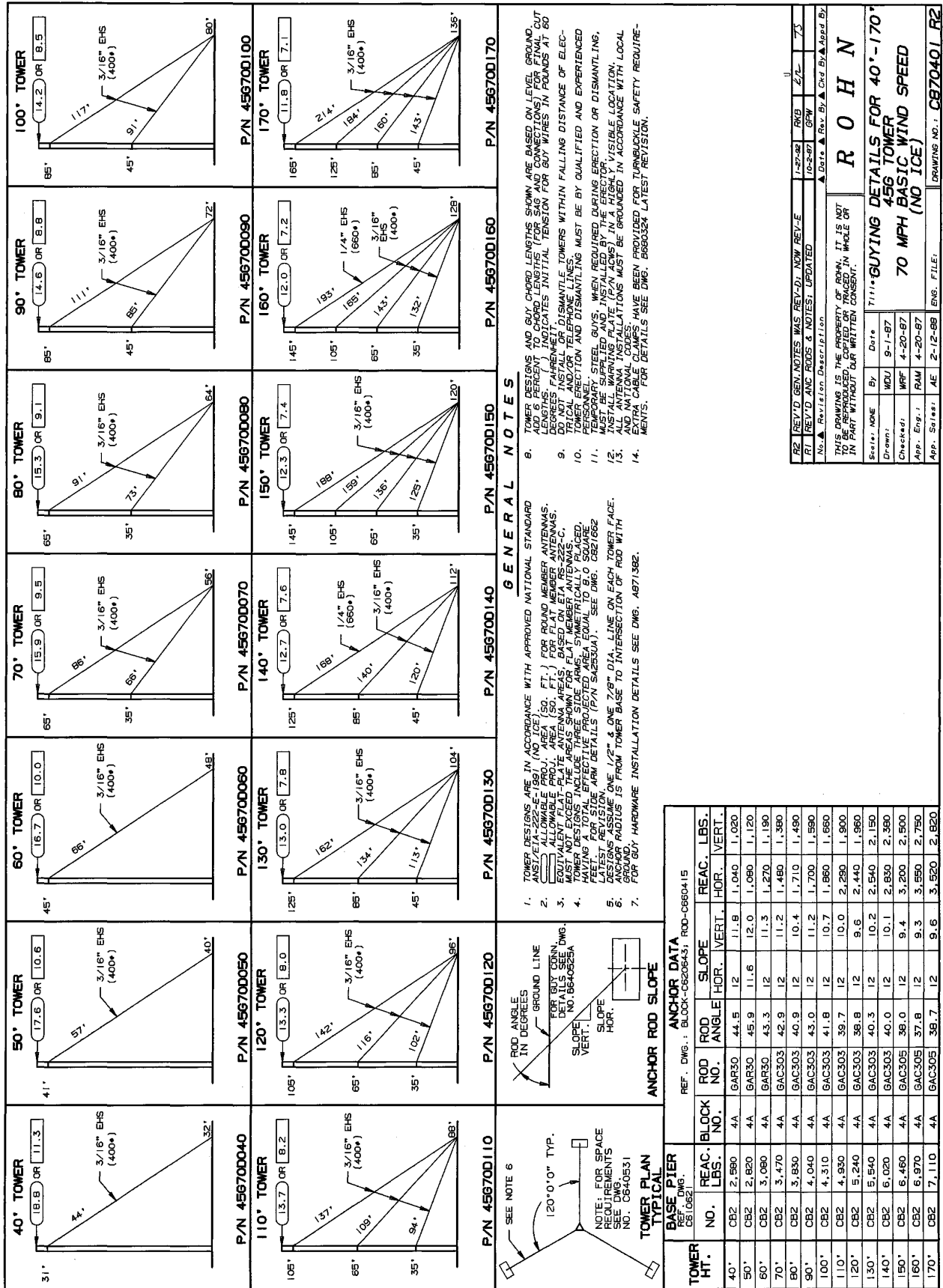
★ Towers mounted on this base must be bracketed or guyed at all times.

◆ This item is not to be used without proper design consideration.

Refer to alphabetical/numerical price list for current prices.

F.O.B. Peoria, Illinois

Specifications subject to change without notice.



**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/EIA-222-E-1, 1991 (NO ICE), 50 FT. FOR ROUND MEMBER ANTENNAS.
2. ALLOWABLE PROJ. AREA (50 FT. FOR ROUND MEMBER ANTENNAS, EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, SECTION 4.2.2.2) SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE TOWER.
3. TOWER DESIGNS INCLUDE THREE SIDE ARMS SYMMETRICALLY PLACED, HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 9.0 SQUARE FEET PER TOWER ARM DETAILS (P/N S42530A). SEE DWG. C821682 LATEST REVISION.
4. TOWER DESIGN ASSUMES ONE 1/2" & ONE 7/8" DIA. LINE ON EACH TOWER FACE. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GUY.
5. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
6. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND, ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT DEGREES. FAREHETS INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 80 PERCENT TENSION.
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRIC LINES OR POWER LINES.
8. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
9. TEST BEFORE STEERING GUNS, WHEN REQUIRED DURING ERECTION OR DISMANTLING.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
11. EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B860324 LATEST REVISION.

**ANCHOR ROD SLOPE**

REF. DWG.: BLOCK-C8206431, ROD-C860415

TOWER HT.	NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE HOR.	SLOPE HOR.	SLOPE VERT.	REAC. LBS. VERT.
40'	C82	2,580	4A	GAR30	44.5	12	11.8	1,040
50'	C82	2,920	4A	GAR30	45.9	11.6	12.0	1,080
60'	C82	3,080	4A	GAR30	43.3	12	11.3	1,270
70'	C82	3,470	4A	GAC303	42.9	12	11.2	1,480
80'	C82	3,830	4A	GAC303	40.8	12	10.4	1,710
90'	C82	4,040	4A	GAC303	43.0	12	11.2	1,700
100'	C82	4,310	4A	GAC303	41.8	12	10.7	1,860
110'	C82	4,930	4A	GAC303	39.7	12	10.0	2,280
120'	C82	5,240	4A	GAC303	38.8	12	9.8	2,440
130'	C82	5,540	4A	GAC303	40.3	12	10.2	2,540
140'	C82	6,020	4A	GAC303	40.0	12	10.1	2,830
150'	C82	6,480	4A	GAC305	38.0	12	9.4	3,200
160'	C82	6,970	4A	GAC305	37.8	12	9.3	3,550
170'	C82	7,110	4A	GAC305	38.7	12	9.6	3,920

**ANCHOR ROD SLOPE**

REF. DWG.: BLOCK-C8206431, ROD-C860415

ROD ANGLE IN DEGREES

GROUND LINE

FOR GUY LINE DETAILS SEE DWG. NO. B640525A

SLOPE VERT.

SLOPE HOR.

**ANCHOR ROD SLOPE**

REF. DWG.: BLOCK-C8206431, ROD-C860415

BASE PIER REF. DWG. C81082

NO. REAC. LBS. BLOCK NO. ROD NO. ROD ANGLE HOR. SLOPE HOR. SLOPE VERT. REAC. LBS. VERT.

**REVISIONS**

REV.	DATE	BY	CHK'D BY	DESCRIPTION
1	1-27-82	RWB	EPL	73
2	10-2-87	GPW		

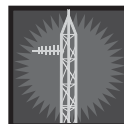
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**R O H N**

TITLE: GUYING DETAILS FOR 40'-170' 45G TOWER 70 MPH BASIC WIND SPEED (NO ICE)

Scale: NONE  
By: WDU 9-1-87  
Drawn: WRF 4-20-87  
Checked: WRF 4-20-87  
App. Eng.: RAM  
Proj. Eng.: AE 2-12-88  
ENG. FILE: C870401 R2





Parts List P-590  
(Replaces P-560)

January 1, 1995

## Parts List for #45G Guyed Towers

### 70 MPH Basic Wind Speed (No Ice)

#### Tower Height

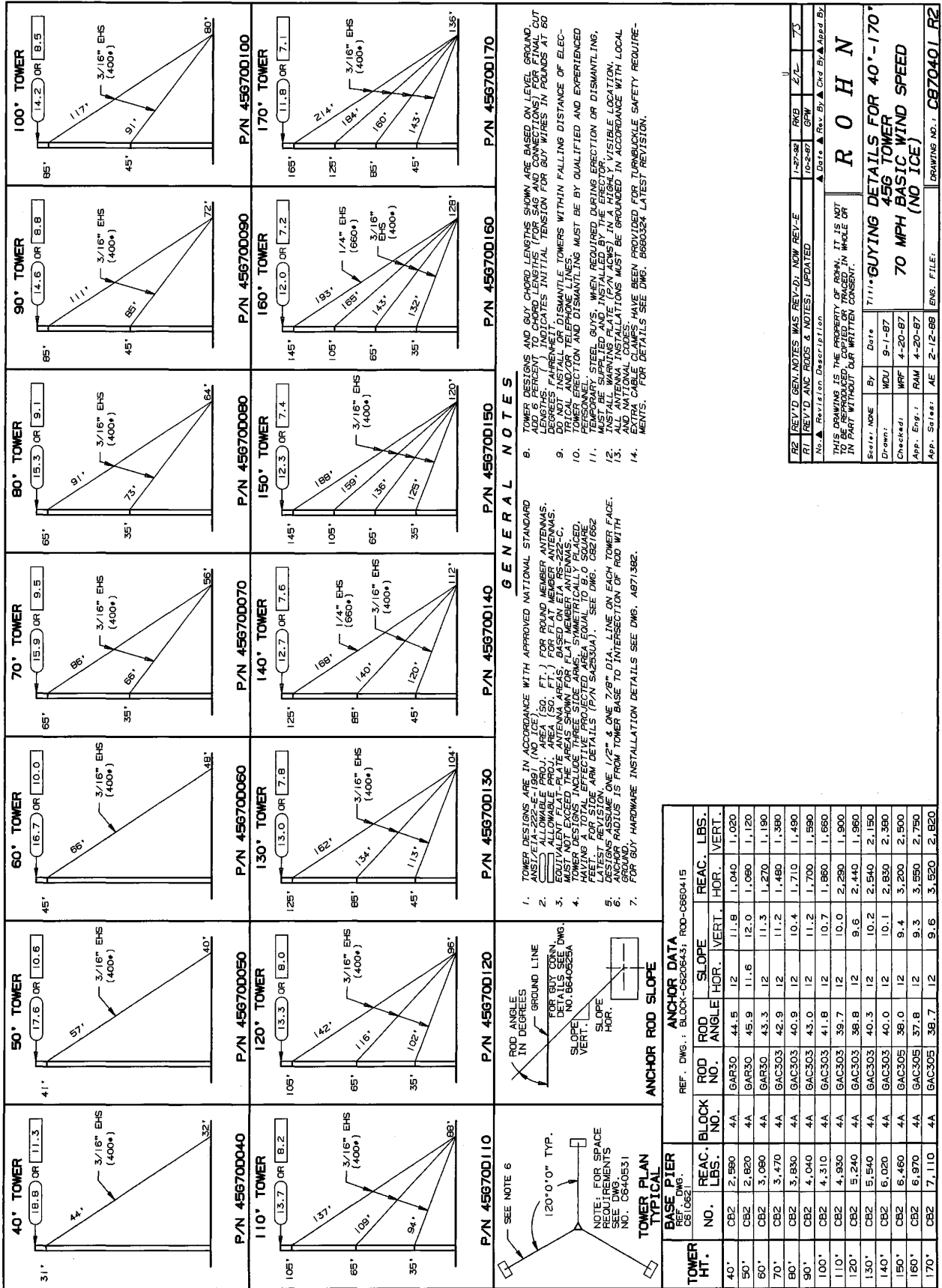
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	1	2	2	2	2	3	3	3	3	4	4	4
3/16EHS	150'	200'	225'	500'	525'	625'	675'	1100'	1150'	1325'	850'	1950'	1400'	2325'
1/4EHS											550'		625'	
BG2142	6	6	6	12	12	12	12	18	18	18	12	24	18	24
BG2144											6		6	
5/16THH	6	6	6	12	12	12	12	18	18	18	12	24	18	24
3/8THH											6		6	
3/8TBE&E				6	6	6	6	9	9	9	6	12	9	12
1/2TBE&E											3		3	
5/8TBE&J	3	3	3											
1/4CCM											6		6	
TBSAFETY	3	3	3	3	3	3	3	3	3	3		3		3
GAR30	3	3	3											
GAC303				3	3	3	3	3	3	3	3			
GAC305												3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	3	3	3	6	6	6	6	9	9	9	9	12	12	12
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

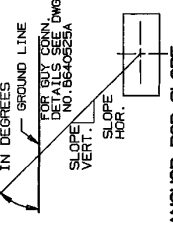
All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.



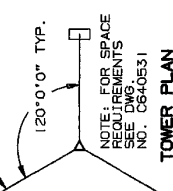
**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSIZETA-222-E-1991 (NO ICE 150 FT.) FOR ROUND MEMBER ANTENNAS.
2. ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT FLAT PLATE ANTENNA AREAS, BASED ON ETA RS-222-C.
3. TOWER DESIGNS INCLUDE THREE SIDE ARMS SYMMETRICALLY PLACED HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 9.0 SQUARE FEET PER SIDE.
4. LATEST REVISION ARM DETAILS (P/N 542530A). SEE DWG. 0821652
5. DESIGNS ASSUME ONE 1/2" & ONE 7/8" DIA. LINE ON EACH TOWER FACE.
6. GROUND RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
7. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. 4871392.

**ANCHOR ROD SLOPE**



**TOWER PLAN TYPICAL**



TOWER HT.	BASE PIER		ANCHOR DATA		SLOPE		REAC. LBS.		
	REF. DWG. NO.	NO.	REF. DWG. NO.	NO.	ROD ANGLE HOR.	ROD ANGLE VERT.	ROD	REAC. LBS. VERT.	
40'	082	2,590	082	4A	44.5	12	1.1, 1.1	1,040	1,020
50'	082	2,820	082	4A	45.9	11.6	12.0	1,090	1,120
60'	082	3,090	082	4A	43.3	12	11.3	1,270	1,190
70'	082	3,470	082	4A	42.9	12	11.2	1,480	1,380
80'	082	3,830	082	4A	40.9	12	10.4	1,710	1,490
90'	082	4,040	082	4A	43.0	12	11.2	1,700	1,590
100'	082	4,310	082	4A	41.8	12	10.7	1,860	1,690
110'	082	4,930	082	4A	39.7	12	10.0	2,280	1,900
120'	082	5,240	082	4A	38.9	12	9.6	2,440	1,980
130'	082	5,540	082	4A	40.3	12	10.2	2,540	2,150
140'	082	6,020	082	4A	38.0	12	10.1	2,830	2,360
150'	082	6,460	082	4A	38.0	12	9.4	3,200	2,500
160'	082	6,970	082	4A	37.8	12	9.3	3,950	2,750
170'	082	7,110	082	4A	36.7	12	9.6	3,520	2,820

**REV'D GEN. NOTES WAS REV'D: NEW REV'E**

**REV'D ANC RODS & INDICES UPDATED**

1-27-82 RWB 27- 75  
 10-2-87 GFW  
 Date: Rev. By: Ckd By: App'd By:

**R O H N**

**TILLINGUYING**

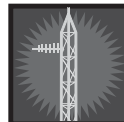
**DETAILS FOR 40'-170'**

**70 MPH BASIC WIND SPEED**

**(NO ICE)**

Scale: NONE By: Date  
 Drawn: WDU 9-1-87  
 Checked: WRF 4-20-87  
 App. Engr.: RAM 4-20-87  
 App. Sefes: AE 2-12-88

ENG. FILE: **C870401 R2**



Parts List P-590  
(Replaces P-560)

January 1, 1995

## Parts List for #45G Guyed Towers

### 70 MPH Basic Wind Speed (No Ice)

#### Tower Height

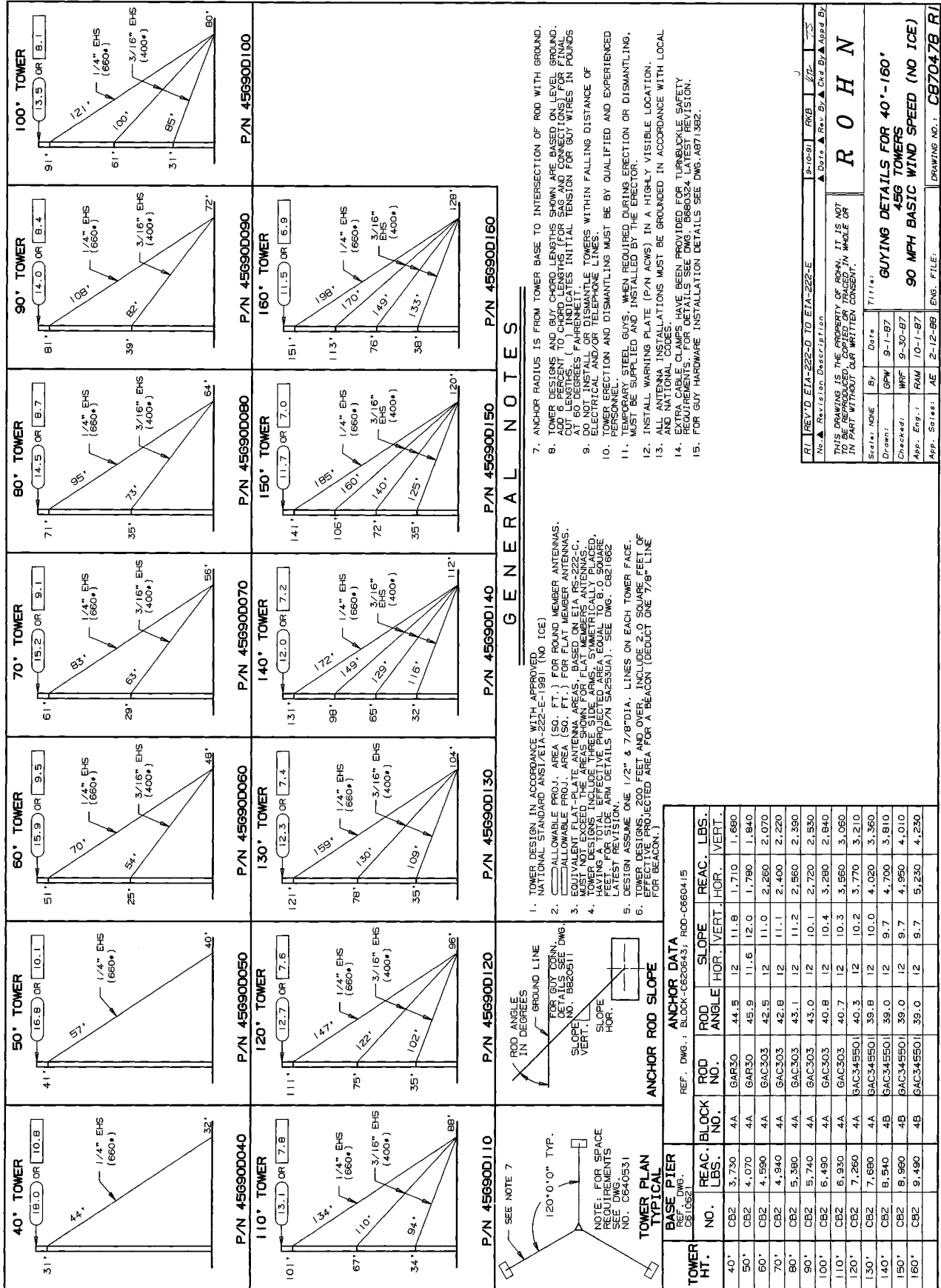
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	1	2	2	2	2	3	3	3	3	4	4	4
3/16EHS	150'	200'	225'	500'	525'	625'	675'	1100'	1150'	1325'	850'	1950'	1400'	2325'
1/4EHS											550'		625'	
BG2142	6	6	6	12	12	12	12	18	18	18	12	24	18	24
BG2144											6		6	
5/16THH	6	6	6	12	12	12	12	18	18	18	12	24	18	24
3/8THH											6		6	
3/8TBE&E				6	6	6	6	9	9	9	6	12	9	12
1/2TBE&E											3		3	
5/8TBE&J	3	3	3											
1/4CCM											6		6	
TBSAFETY	3	3	3	3	3	3	3	3	3	3		3		3
GAR30	3	3	3											
GAC303				3	3	3	3	3	3	3	3			
GAC305												3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	3	3	3	6	6	6	6	9	9	9	9	12	12	12
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

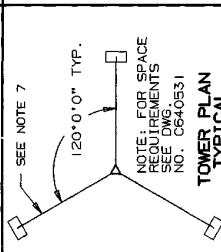
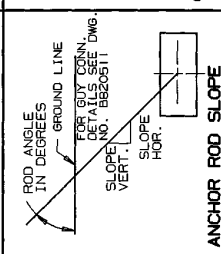
Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



**GENERAL NOTES**

- TOWER DESIGN IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1981 (NO ICE)
- ALLOWABLE PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, TOWER DESIGN INCLUDING THE SIDE BRIS, SYMMETRICALLY PLACED, HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 8.0 SQUARE FEET PER SIDE ARM DETAILS (P/N 542533A). SEE DWG. CB21662 LATEST REV. FOR SIDE ARM DETAILS.
- DESIGN ASSUME ONE 1/2" & 7/8" DIA. LINES ON EACH TOWER FACE.
- DESIGN ASSIGNS 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE FOR BEACON.)
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
- TOWER DESIGN AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. CUT LENGTHS TO CHORD LENGTHS FOR SAG AND CONNECTIONS FOR FINAL CUT LENGTHS TO CHORD LENGTHS INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES FAHRENHEIT.
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
- PERSONNEL AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
- TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- ALL ANTENNA CODES IN A HIGHLY VISIBLE LOCATION.
- INSTALL WARNING PLATE (P/N ACWS) IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- ALL NATIONAL CODES HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. SEE DWG. CB66032, LATEST REV. FOR DETAILS.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871362.



TOWER HT.	BASE PIER		ANCHOR DATA		SLOPE		REAC. LBS.		
	REF. DWG.	NO.	REF. DWG.	NO.	ROD ANGLE	ROD SLOPE	REAC. HOR.	REAC. VERT.	
40'	CB2	3,730	4A	GAR30	44.5	12	11.8	1,710	1,680
50'	CB2	4,070	4A	GAR30	45.9	11.6	12.0	1,790	1,840
60'	CB2	4,590	4A	GAC303	42.5	12	11.0	2,260	2,070
70'	CB2	4,940	4A	GAC303	42.8	12	11.1	2,400	2,220
80'	CB2	5,380	4A	GAC303	43.1	12	11.2	2,560	2,390
90'	CB2	5,740	4A	GAC303	43.0	12	10.1	2,720	2,530
100'	CB2	6,490	4A	GAC303	40.8	12	10.4	3,280	2,840
110'	CB2	6,930	4A	GAC303	40.7	12	10.3	3,560	3,060
120'	CB2	7,260	4A	SAC34550I	40.3	12	10.2	3,770	3,210
130'	CB2	7,680	4A	SAC34550I	39.8	12	10.0	4,020	3,360
140'	CB2	8,540	4B	SAC34550I	39.0	12	9.7	4,700	3,810
150'	CB2	8,980	4B	SAC34550I	39.0	12	9.7	4,950	4,010
160'	CB2	9,490	4B	SAC34550I	39.0	12	9.7	5,230	4,230

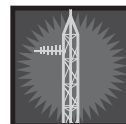
RI REV'D EIA-222-D TO EIA-222-E

9-16-91 RWB JPL  
Date Rev By Ctd By App'd By

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R O H N

Drawn: GPM 9-1-87  
Checked: WRF 9-30-87  
App. Eng.: RAM 10-1-87  
Title: GUYING DETAILS FOR 40'-160' 45G TOWERS 90 MPH BASIC WIND SPEED (NO ICE)  
App. Sales: AE 2-12-88 ENG. FILE: CB70478 RI



Parts List P-592  
(Replaces P-569)

January 1, 1995

## Parts List for #45G Guyed Towers

### 90 MPH Basic Wind Speed (No Ice)

#### Tower Height

Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	2	2	2	2	3	3	3	3	4	4	4
3/16EHS			175'	225'	250'	275'	600'	650'	725'	775'	1275'	1375'	1450'
1/4EHS	150'	200'	225'	275'	325'	350'	400'	450'	500'	525'	550'	600'	650'
BG2142			6	6	6	6	12	12	12	12	18	18	18
BG2144	6	6	6	6	6	6	6	6	6	6	6	6	6
5/16THH			6	6	6	6	12	12	12	12	18	18	18
3/8THH	6	6	6	6	6	6	6	6	6	6	6	6	6
3/8TBE&E			3	3	3	3	6	6					
1/2TBE&E			3	3	3	3	3	3					
1/2TBE&J									9	9	12	12	12
5/8TBE&J	3	3											
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3
GAR30	3	3											
GAC303			3	3	3	3	3	3					
GAC345501									3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	6	6	6	6	6	6	9	9	9	9	12	12	12
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2

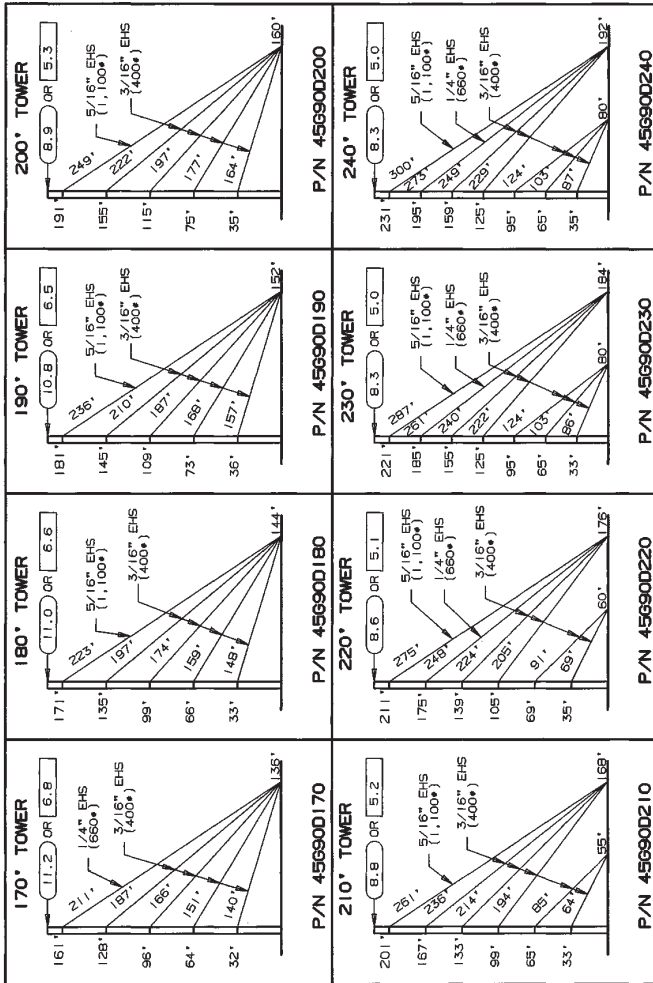
Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

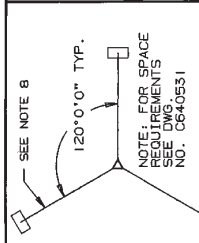
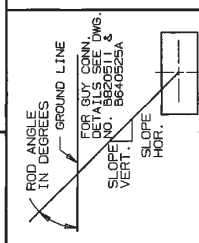
All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.





**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD AND SIZE/ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS.
2. ALLOWABLE PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS.
3. EQUIVALENT EXCEPT FOR FLAT MEMBER AREAS. BASED ON A RENEZ-C.
4. TOWER DESIGNS INCLUDE THREE SIDE ARMS, SYMMETRICALLY PLACED, HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 8.0 SQUARE FEET.
5. LATEST REVISION, ARM DETAILS (P/N 546350A). SEE DWG. 0861682
6. DESIGNS ASSUME ONE 1/2" & ONE 7/8" DIA. LINE ON EACH TOWER FACE.
7. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A873492.



**ANCHOR ROD SLOPE**

TOWER HT.	INNER ANCHOR DATA			OUTER ANCHOR DATA		
	REAC. LBS.	BLOCK NO.	ROD NO.	REAC. LBS.	BLOCK NO.	ROD NO.
170'	10,420	4C	GAC3455	37.9	12	9.4
180'	11,260	4D	GAC3455	38.4	12	9.5
190'	11,990	4D	GAC3455	38.2	12	9.5
200'	12,480	4D	GAC3455	38.2	12	9.5
210'	14,860	4A	GAC303	41.3	12	10.5
220'	15,980	4A	GAC303	40.6	12	10.3
230'	17,350	4A	GAC303	38.3	12	9.5
240'	17,450	4A	GAC303	38.7	12	9.6

**GENERAL NOTES**

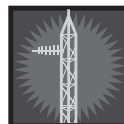
8. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. LEAD PERCENT GUY CHORD LENGTHS (FOR 45° AND 60° ANGLES) FOR FINAL CUT LENGTHS INDICATES INITIAL TENSION FOR 60 WIRES IN POUNDS AT 60 DEGREES FAHRENHEIT.
9. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRIC LINES OR POWER LINES.
10. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL. STEEL GUYS WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
11. INSTALL WARNING PLATE (P/N 400M) IN A HIGHLY VISIBLE LOCATION.
12. EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. 0860024 LATEST REVISION.
13. AND NATIONAL CODES. CALCULATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
14. ALL DIMENSIONS ARE IN FEET AND INCHES. INCLUDE 2.0 SQUARE FEET OF EXPOSED SURFACE AREA FOR EACH TOWER FACE.
15. EXPOSED SURFACE AREA FOR A BEACON (SUBJECT ONE 7/8" LINE OF BEACON).

REV.	DATE	BY	CHKD.	DESCRIPTION
1	11-21-87	RF	RF	REVISED TO INCLUDE 2.0 SQUARE FEET OF EXPOSED SURFACE AREA FOR EACH TOWER FACE.
2	10-1-87	RF	RF	REVISED TO INCLUDE 2.0 SQUARE FEET OF EXPOSED SURFACE AREA FOR EACH TOWER FACE.

**R O H N**

45G TOWER  
90 MPH BASIC WIND SPEED  
(NO ICE)

DRAWING NO. 0870479 RI



Parts List P-593  
(Replaces P-586)

January 1, 1995

## Parts List for #45G Guyed Towers

### 90 MPH Basic Wind Speed (No Ice)

Tower Height

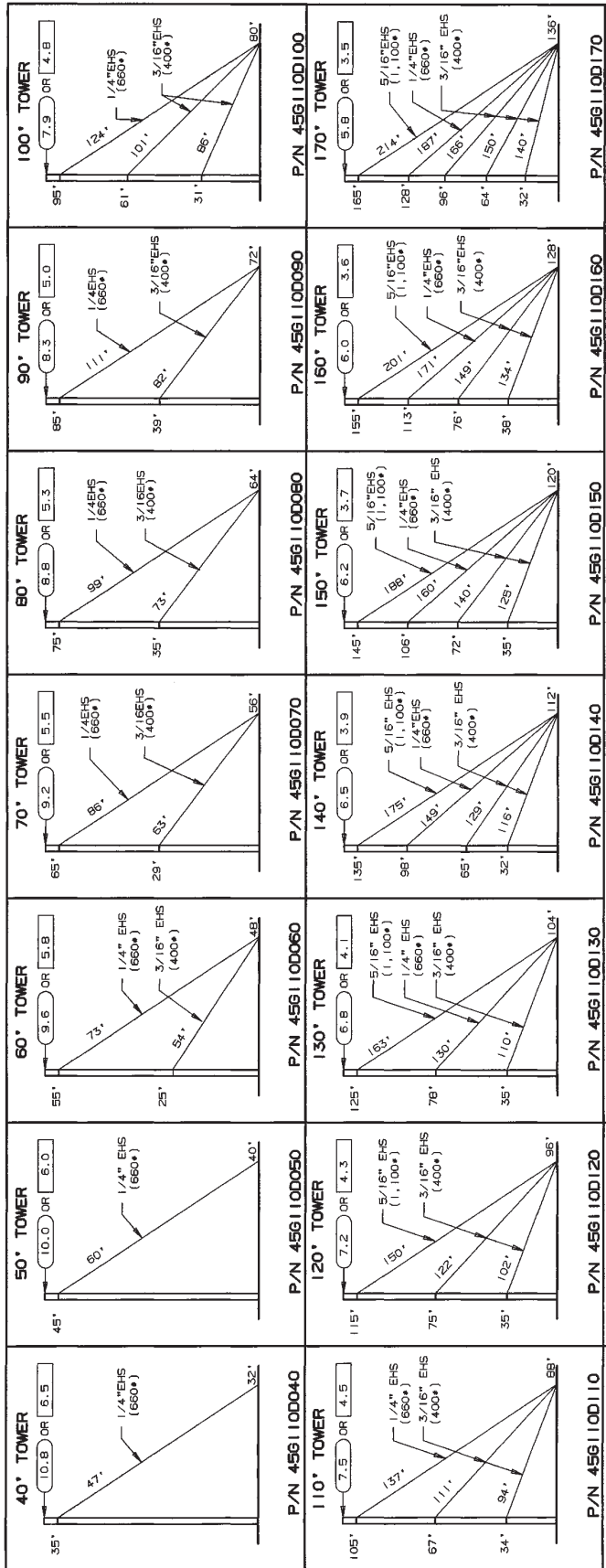
Part Number	170'	180'	190'	200'	210'	220'	230'	240'
45G	16	17	18	20	21	22	23	24
45AG2	1	1	1					
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1
APL45G				1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3
GA45GD	5	5	5	5	6	6	7	7
3/16EHS	2150'	2175'	2350'	2425'	2575'	1875'	2500'	2600'
1/4EHS	675'					800'	850'	875'
5/16EHS		725'	775'	800'	850'	875'	925'	1000'
BG2142	24	24	24	24	30	24	30	30
BG2144	6					6	6	6
BG2146		6	6	6	6	6	6	6
5/16THH	24	24	24	24	30	24	30	30
3/8THH	6					6	6	6
7/16THH		6	6	6	6	6	6	6
3/8TBE&E					6	6	9	9
1/2TBE&J	15	12	12	12	9	9	9	9
5/8TBE&J		3	3	3	3	3	3	3
5/16CCF								6
TBSAFETY	3	3	3	3	6	6	6	3
GAC303					3	3	3	3
GAC345501	3	3	3	3	3	3	3	3
AGKE	1	1	1	1	2	2	2	2
340028	15	15	15	15	18	18	21	21
BGKE	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE).
2. ALLOWABLE PRO. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT FLAT-PLATE ANTENNA AREAS BASED ON EIA-222-E-1991. MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
3. TOWER DESIGN IS FOR A 110 MPH WIND SPEED (NO ICE). HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 8.0 SQUARE FEET. FOR SIDE ARM DETAILS (P/N SAG353A). SEE DWG. C821652.
4. DESIGN IS BASED ON ONE 1/2" & ONE 7/8" DIA. LINE ON EACH TOWER FACE.
5. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
6. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
- 7.

**ANCHOR ROD SLOPE**

REF. DWG.: BLOCK-C620643; ROD-C660415

TOWER HT.	REF. DWG.	NO.	REAC. LBS.	BLOCK NO.	ROD NO.	SLOPE HOR.	SLOPE VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
40'	C82	4,450	4A	GAR30	47.8	10.9	12.0	1,830	2,020
50'	C82	4,940	4A	GAR30	45.9	10.7	12.0	1,950	2,200
60'	C82	5,620	4A	GAC303	42.6	12	11.0	2,740	2,520
70'	C82	6,190	4A	GAC303	42.4	12	11.0	3,010	2,750
80'	C82	6,770	4A	GAC303	42.4	12	11.9	3,260	2,950
90'	C82	7,310	4A	GAC303	42.1	12	10.8	3,560	3,220
100'	C82	8,190	4B	GAC3455	40.4	12	10.2	4,260	3,630
110'	C82	9,830	4B	GAC3455	40.2	12	10.2	4,610	3,900
120'	C82	9,900	4C	GAC3455	40.3	12	10.2	5,260	4,470
130'	C82	10,730	4C	GAC3455	39.9	12	10.0	5,950	4,990
140'	C82	11,950	4D	GAC3455	39.2	12	9.8	6,810	5,560
150'	C82	12,660	4D	GAC3455	39.1	12	9.8	7,200	5,980
160'	C82	13,430	4E	GAC3455	39.0	12	9.7	7,840	6,190
170'	C82	14,630	4E	GAC3455	38.3	12	9.5	8,660	6,840

**TOWER PLAN TYPICAL**

SEE NOTE 6

120'±0" TYP.

NOTE: FOR SPACE REQUIREMENTS SEE DWG. NO. C640531

BASE PIER		ANCHOR DATA	
REF. DWG.	NO.	REF. DWG.	NO.
C61062		BLOCK-C620643	ROD-C660415

Revised By	Date	Revised By	Date
WJSA	7/5		

Revision Description	
12-9-91	RKB
12-9-91	RKB

Title	
GUYING DETAILS FOR 40'-170' 45G TOWERS (NO ICE)	

Scale	By	Date
RKB	RKB	12-21-90

Checked	App. Eng.	App. Scale
RKB	TS	AE

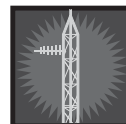
  

Drawn	App. Eng.	App. Scale
RKB	TS	AE

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DRAWING NO.: C902042 R1



Parts List P-594  
(Replaces P-554)

January 1, 1995

## Parts List for #45G Guyed Towers

### 110 MPH Basic Wind Speed (No Ice)

Tower Height

Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	2	2	2	2	3	3	3	3	4	4	4	5
3/16EHS			175'	200'	250'	275'	625'	700'	725'	350'	875'	900'	925'	1500'
1/4EHS	150'	200'	250'	275'	325'	375'	400'	450'		425'	475'	525'	550'	700'
5/16EHS									500'	525'	575'	600'	650'	700'
BG2142			6	6	6	6	12	12	12	6	12	12	12	18
BG2144	6	6	6	6	6	6	6	6		6	6	6	6	6
BG2146									6	6	6	6	6	6
5/16THH			6	6	6	6	12	12	12	6	12	12	12	18
3/8THH	6	6	6	6	6	6	6	6		6	6	6	6	6
7/16THH									6	6	6	6	6	6
3/8TBE&E			3	3	3	3								
1/2TBE&E			3	3	3	3								
1/2TBE&J							9	9	6	6	9	9	9	12
5/8TBE&J	3	3							3	3	3	3	3	3
1/4CCM														6
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	
GAR30	3	3												
GAC303			3	3	3	3								
GAC345501							3	3	3	3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	3	3	6	6	6	6	9	9	9	9	12	12	12	15
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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





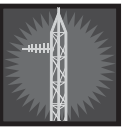




	<p><b>BPL45G</b> Converts standard section to a top section.</p> <p>Shown with TB3 (2" O.D.) Thrust Bearing. TB4 (3" O.D.) Thrust Bearing also available.</p>		<p><b>Base Plate</b> BPC45G For concrete.</p> <p><b>Pier Pin</b> 3/4" x 12" PP.</p>
	<p><b>5' Short Base</b> SB45G For concrete.</p>		<p><b>Universal House Bracket</b> HBU6"-30"</p> <p>HBU7VRO 18"-36" also available</p>
	<p><b>Amateur Bearing</b> AB For use with 45AG4 top section and BPL45G.</p>		<p><b>Beacon Plate</b> APL45G</p>
	<p><b>10' Insulator Section</b> 45RG*</p>		<p><b>Flat Roof Mount</b> FR45G*</p>
	<p><b>10' Insulator Section</b> 45RG*</p>		<p><b>Accessory Shelf</b> AS455G</p>

\* Towers mounted on these bases must be bracketed or guyed at all times. Temporary steel guying may also be necessary during installation and dismantling.

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	<p><b>Guy Bracket</b> GA45GD</p> <p><b>Torque Bars</b> TB45D (not shown) Also available. Requires three 3/8S shackles for installation.</p>		<p><b>Side Arm Bracket</b> SA253UA</p>
	<p><b>Torque Arm Stabilizer Assembly</b> TA45 Shown with 45TDM2 Top Dish Mount</p>		<p><b>Face Dish Mount</b> DM45G2 2-3/8" O.D. 5' long</p> <p>DM454 4-1/2" O.D. pipe 5' long also available.</p>
	<p>455ACL3 Bolt-on sheets to provide anti-climb protection.</p>		<p><b>Safety Ring</b> SR245</p> <p><b>Work Platform</b> WP45G</p>
	<p><b>Erection Fixture</b> EF2545 2-1/2" sheave with 3/8" I.D. groove.</p> <p><b>Note:</b> Erection fixtures are for lifting one 10' section at a time and are not intended for the lifting of personnel.</p>		<p><b>Tower Bushing</b> TB50 1-1/4" I.D. x 2" O.D. For use in 45AG top section.</p> <p>TP75 Also available 1-1/2" I.D. x 2" O.D.</p>

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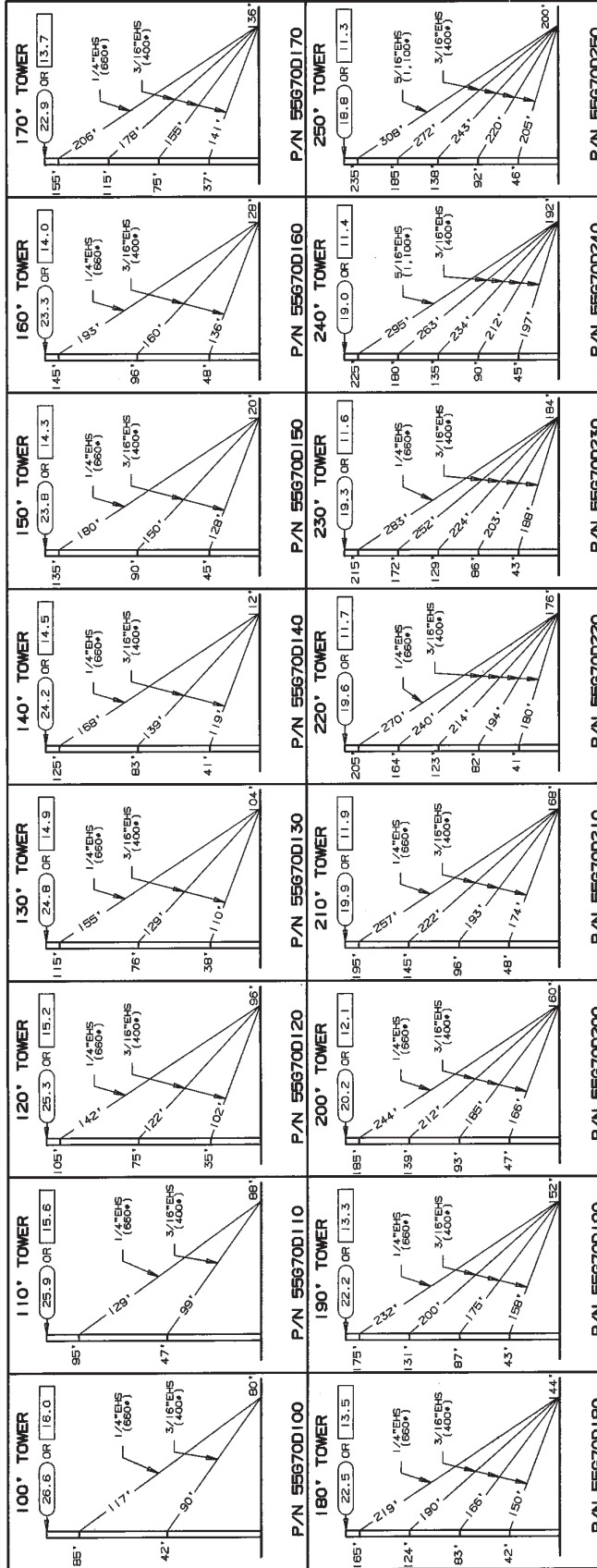


## 55G TOWER



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**GENERAL NOTES**

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSIZ/EIA-222-E-1981 (NO ICE) FOR GROUND MOUNTED ANTENNAS. ALLOWABLE PROTECTIVE AREA (50 FT. FOR FLAT MOUNTED ANTENNAS, EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA 222-C, TOWER DESIGNS INCLUDE THESE PROTECTIVE AREAS UNLESS OTHERWISE NOTED.
- HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 8.0 SQUARE FEET FOR SLOPE ARM DETAILS (P/N 5660234). SEE DWG. C871862.
- DESIGNS ASSUME TWO 7/8" DIA. LINES ON EACH TOWER FACE. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH SLOPE.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871362.

**ANCHOR ROD SLOPE**

REF. DWG. 1 BLOCK-0620643; ROD-C660415

TOWER HT.	REF. DWG. NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
100'	CB2	6,010	4A	GAC303	42.8	12	11.1	2,410	2,230
110'	CB2	6,280	4A	GAC303	42.9	12	11.2	2,500	2,320
120'	CB2	7,040	4A	GAC303	41.4	12	10.6	2,950	2,600
130'	CB2	7,360	4A	GAC303	41.3	12	10.5	3,090	2,710
140'	CB2	7,860	4A	GAC303	41.2	12	10.5	3,230	2,850
150'	CB2	8,060	4A	GAC303	40.6	12	10.3	3,450	2,950
160'	CB2	8,370	4A	GAC303	40.5	12	10.2	3,580	3,060
170'	CB2	9,110	4A	GAC345501	38.9	12	9.7	4,180	3,360
180'	CB2	9,440	4B	GAC345501	39.2	12	9.8	4,290	3,500
190'	CB2	9,800	4B	GAC345501	39.1	12	9.7	4,430	3,640
200'	CB2	10,180	4B	GAC345501	39.1	12	9.7	4,690	3,810
210'	CB2	10,530	4B	GAC345501	38.9	12	9.7	4,900	3,960
220'	CB2	11,360	4C	GAC345501	38.0	12	9.4	5,520	4,310
230'	CB2	11,660	4C	GAC345501	38.0	12	9.4	5,690	4,440
240'	CB2	12,490	4C	GAC345501	38.5	12	9.5	6,230	4,960
250'	CB2	12,840	4D	GAC345501	38.3	12	9.5	6,430	5,060

**TOWER PLAN TYPICAL**

SEE NOTE 6

120'-0" TYP.

NOTE: FOR SPACE REQUIREMENTS SEE DWG. NO. C840551

**REVISION NOTES**

- TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. FAHRENHEIT INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 80 DEGREES.
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRIC POWER LINES. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
- MUST BE SUPPLIED WITH REQUIRED GUYS, WHEN REQUIRED GUYS ARE ERECTED.
- INSTALL WARNING PLATE (P/N ACW1) IN A HIGHLY VISIBLE LOCATION.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL ELECTRICAL CODES. EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B660324 LATEST REVISION.
- TOWER DESIGNS, 200 FEET AND OVER INCLUDE 2.0 SQUARE FEET OF PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE FOR BEACON).

No. Revision Description		1-27-88	RK9	JS
RI REV'D GEN. NOTES WAS REV'D NOW REV'E		Date	Rev. By	App. By
<b>R O H N</b>				
GUYING DETAILS FOR 100'-250' 55G TOWER BASIC WIND SPEED 70 MPH (NO ICE)				
Scale: NONE	By: WJF	Date: 9-1-87		
Drawn: WJF	Checked: WJF	9-16-87		
App. Eng.: RMM	9-30-87			
App. Svr.: AE	2-12-89	ENR. FILE:	DRAWING NO.: C870489 R1	





Sheet D-2885  
(Replaces D-2829)

## 55G TOWER

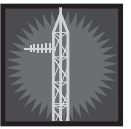
Part No.	Description	Wt.
55G	10' tower section	100
★ 55TG	10' tapered base section (sits on a pier pin - order pier pin separately)	138
★ 55TGIA	10' tapered base section (for use with A4197L base insulator)	138
★ 55TGIAA	10' tapered base section (for use with A4722B base insulator)	138
55ACL	10' welded anti-climb section	185
455ACL3	3 anti-climb metal sheets for attaching to tower section	120
5545G	20' adapter section for joining 45G and 55G sections	160
55JBK	Joint bolt kit	1
APL55G	Beacon plate	20
APL1258UM	Mid beacon plate assembly	30
SB55G	5' short base section for concrete	45
★ BPC55G	Concrete base plate (sits on a pier pin - order pier pin separately)	40
★ 3/4X12PP	Pier pin (for BPC55G or 55TG - one required)	1
GA55GD	Guy bracket assembly	27
TB55D	Torque bars with sleeves (for use with GA55GD guy bracket) (requires 3 shackles, 1/2" maximum size - order separately)	13
HBUTVRO	Universal house bracket (18" to 36")	38
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing	1
TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing	2-1/2
BPL55G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	3
SA253UA	Side arm assembly, 2-1/2" to 3' extension, with 2-1/4" support tube	28
◆ TA55	Torque arm stabilizer assembly	60
55TDMKD	Top dish mount	65
55TDM2S3KD	Top dish mount w/2" standard pipe (extends 3' above top plate)	85
55TDM2S3KD	Top dish mount w/2-1/2" standard pipe (extends 3' above top plate)	105
55TDM3S3KD	Top dish mount w/3" standard pipe (extends 3' above top plate)	120
55TDM3S3KD	Top dish mount w/3-1/2" standard pipe (extends 3' above top plate)	130
55TDM4S3KD	Top dish mount w/4" standard pipe (extends 3' above top plate)	145
◆ DM55G2	Side face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	53
DM554	Side face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	89
AS455G	Accessory shelf	8
⊗ SR55	Safety ring	10
WP55G	Work platform	15

**Note:** The price on #55 sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

⊗ Available by special order only.

★ Towers mounted on this base must be bracketed or guyed at all times.

◆ This item is not to be used without proper design consideration.



Parts List P-606  
(Replaces P-561)

**PARTS LIST FOR #55G GUYED TOWERS**  
**70 MPH Basic Wind Speed (No Ice)**

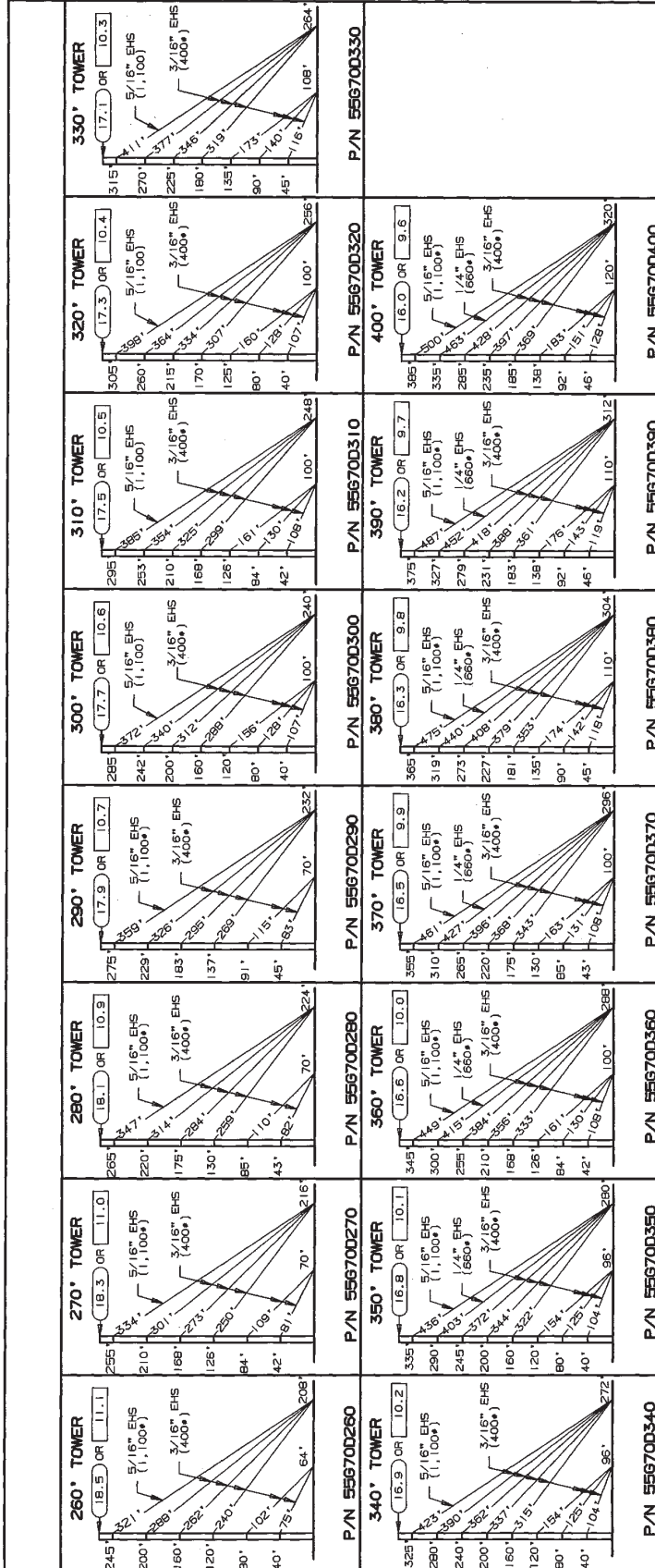
Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	3/8TB&E	1/2TB&E	1/2TB&J	5/8TB&J	GAC 303	GAC34501	AGKE	BGKE
100'	10	1	1	3	2	300'	375'		6	6		6	6		3	3			3		1	2
110'	11	1	1	3	2	325'	425'		6	6		6	6		3	3			3		1	2
120'	12	1	1	3	3	725'	500'		12	6		12	6		6	3			3		1	2
130'	13	1	1	3	3	775'	500'		12	6		12	6		6	3			3		1	2
140'	14	1	1	3	3	825'	550'		12	6		12	6		6	3			3		1	2
150'	15	1	1	3	3	900'	575'		12	6		12	6		6	3			3		1	2
160'	16	1	1	3	3	950'	625'		12	6		12	6		6	3			3		1	2
170'	17	1	1	3	4	1525'	675'		18	6		18	6				12			3	1	2
180'	18	1	1	3	4	1625'	700'		18	6		18	6				12			3	1	2
190'	19	1	1	3	4	1700'	750'		18	6		18	6				12			3	1	2
200'	20	1	1	3	4	1800'	800'		18	6		18	6				12			3	1	2
210'	21	1	1	3	4	1875'	825'		18	6		18	6				12			3	1	2
220'	22	1	1	3	5	2700'	875'		24	6		24	6				15			3	1	2
230'	23	1	1	3	5	2775'	900'		24	6		24	6				15			3	1	2
240'	24	1	1	3	5	2900'		950'	24		6	24		6			12	3		3	1	2
250'	25	1	1	3	5	3000'		1000'	24		6	24		6			12	3		3	1	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



**GENERAL NOTES**

- TOWER DESIGN IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE)
- ALLOWABLE PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C. TOWER DESIGNER TO PROVIDE ANTENNA AREAS FOR ALL MEMBER ANTENNAS. HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 8' 0" SQUARE FEET PER 100' ARM DETAILS (P/N SA2530A). SEE DWG. C621662
- DESIGN ASSUME TWO 7/8" DIA. LINES ON EACH TOWER FACE
- DESIGNATIONS, 200 FEET AND OVER INCLUDE 2.0 SQUARE FEET OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE FOR BEACON.)
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
- TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO GUY CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL AT 60 DEGREES FAHRENHEIT
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF PERSONNEL AND/OR TELEPHONE LINES.
- PERMANENT ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL
- TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS FOR DETAILS SEE DWG. B660324 LATEST REVISION.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A671362.

TOWER HT.	BASE PIER		ANCHOR DATA		ANCHOR DATA		ANCHOR DATA		ANCHOR DATA							
	NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS.			
260'	CB2	14,940	4A	GAC303	42.6	12	11	1,350	1,250	40	GAC345501	42.7	12	11.1	5,470	5,040
270'	CB2	15,330	4A	GAC303	41.5	12	10.6	1,410	1,280	40	GAC345501	42.7	12	11.1	5,610	5,170
280'	CB2	15,800	4A	GAC303	42.2	12	10.9	1,420	1,280	40	GAC345501	42.6	12	11.0	5,780	5,320
290'	CB2	16,450	4A	GAC303	43.7	12	11.5	1,450	1,390	40	GAC345501	42.7	12	11.1	5,950	5,480
300'	CB2	17,550	4A	GAC303	39.5	12	9.5	2,250	1,790	40	GAC345501	43.5	12	11.4	6,530	6,020
310'	CB2	18,240	4A	GAC303	39.9	12	10	2,300	1,820	40	GAC345501	43.6	12	11.4	6,680	6,160
320'	CB2	18,650	4A	GAC303	39.5	12	9.9	2,350	1,910	40	GAC345501	43.4	12	11.3	6,260	5,910
330'	CB2	19,190	4A	GAC303	39.7	12	10	2,420	2,010	40	GAC345501	43.6	12	11.4	6,360	6,040
340'	CB2	20,110	4A	GAC303	39.6	12	9.9	2,200	1,850	4E	GAC345501	42.2	12	10.9	7,410	6,730
350'	CB2	21,100	4A	GAC303	39.6	12	9.9	2,100	1,810	4E	GAC345501	42.1	12	10.8	7,990	7,200
360'	CB3	21,650	4A	GAC303	39.6	12	9.9	2,300	1,900	4E	GAC345501	42.2	12	10.9	8,330	7,560
370'	CB3	22,430	4A	GAC303	40.5	12	10.3	2,350	2,010	4E	GAC345501	42.3	12	10.9	8,500	7,750
380'	CB3	22,750	4A	GAC303	39.9	12	9.7	2,440	1,970	6A	GAC565501	42.2	12	10.9	8,700	7,980
390'	CB3	23,210	4A	GAC303	39.4	12	9.9	2,440	2,010	6A	GAC565501	42.2	12	10.9	8,700	7,980
400'	CB3	23,400	4A	GAC303	37.0	12	8.1	2,490	1,880	6A	GAC565501	42	12	10.8	8,940	8,080

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Rev. 10-1-97  
 Rev. 9-30-97  
 Rev. 9-1-97

Scale: None  
 By: [Signature]  
 Date: [Date]

Checked: [Signature]  
 App. Eng.: [Signature]

App. Supt.: [Signature]

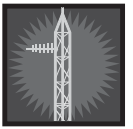
Rev. 10-1-97  
 Rev. 9-30-97  
 Rev. 9-1-97

10-15-01 RWB / JLS  
 Date: [Signature] Rev. By: [Signature] Date: [Signature]

**R O H N**

GUYING DETAILS FOR 260'-400'  
 55G TOWERS  
 70 MPH BASIC WIND SPEED (NO ICE)

DRAWING NO.: CB70491\_R1



Parts List P-607  
(Replaces P-574)

**PARTS LIST FOR #55G GUYED TOWERS**  
**70 MPH Basic Wind Speed (No Ice)**

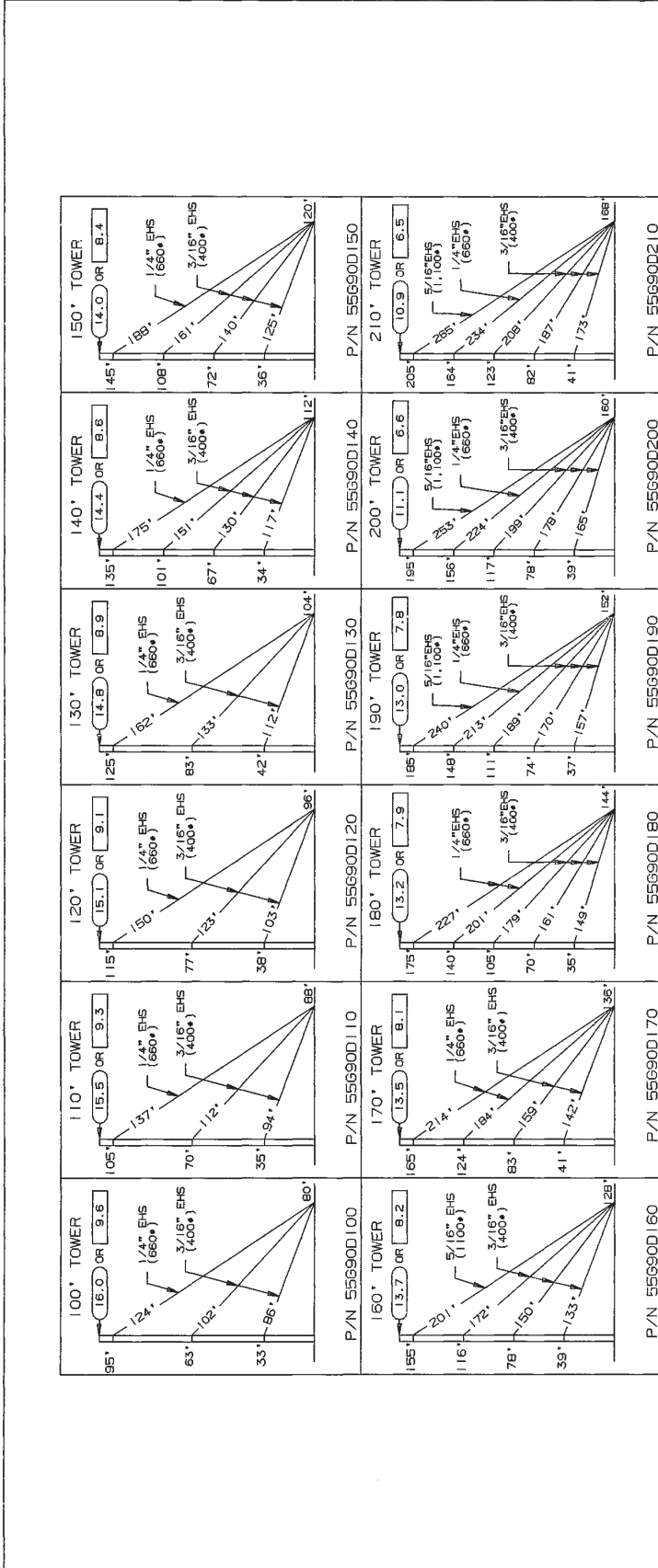
Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	APL1258UM	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	3/8TBE&E	1/2TBE&J	5/8TBE&J	GAC 303	GAC345501	GAC565501	AGKE	BGKE
260'	26	1	1	3	6		3100'		1025'	30		6	30		6	6	9	3	3	3		2	2
270'	27	1	1	3	6		3225'		1075'	30		6	30		6	6	9	3	3	3		2	2
280'	28	1	1	3	6		3350'		1125'	30		6	30		6	6	9	3	3	3		2	2
290'	29	1	1	3	6		3500'		1150'	30		6	30		6	6	9	3	3	3		2	2
300'	30	1	1	3	7		4250'		1200'	36		6	36		6	9	9	3	3	3		2	2
310'	31	1	1	3	7		4400'		1225'	36		6	36		6	9	9	3	3	3		2	2
320'	32	1	1	3	7		4500'		1275'	36		6	36		6	9	9	3	3	3		2	2
330'	33	1	1	3	7		4750'		1325'	36		6	36		6	9	9	3	3	3		2	2
340'	34	1	1	3	8		5725'		1350'	42		6	42		6	9	12	3	3	3		2	2
350'	35	1	1	3	8		4750'	1455'	1400'	36	6	6	36	6	6	9	12	3	3	3		2	2
360'	36	1	1	3	8	1	4750'	1325'	1450'	36	6	6	36	6	6	9	12	3	3	3		2	2
370'	37	1	1	3	8	1	4800'	1375'	1475'	36	6	6	36	6	6	9	12	3	3	3		2	2
380'	38	1	1	3	8	1	5150'	1500'	1525'	36	6	6	36	6	6	9		15	3		3	2	2
390'	39	1	1	3	8	1	5150'	1450'	1550'	36	6	6	36	6	6	9		15	3		3	2	2
400'	40	1	1	3	8	1	5275'	1500'	1600'	36	6	6	36	6	6		9	15		3	3	2	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



**GENERAL NOTES**

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD UNDERGROUND PROJ. AREA (50. FT.) FOR ROUND MEMBER ANTENNAS.
- ALLOWABLE PROJ. AREA (50. FT.) FOR FLAT MEMBER ANTENNAS.
- MUST EXCEED THE MINIMUMS FOR ALL MEMBER ANTENNAS.
- TOWER DESIGNS INCLUDE THREE SIDE ARMS, SYMMETRICALLY PLACED, FLYING AROUND AN EFFECTIVE PROJECTED AREA EQUAL TO 1/8 SQUARE FEET PER TOWER FACE AREA. SEE DWG. C871082.
- DESIGNS ASSUME TWO 7/8" DIA. LINES ON EACH TOWER FACE OF 1/4" EHS (660#) FOR BEACON. EFFECTIVE PROJECTED AREA FOR BEACON (DEDUCT ONE 1/8" LINE FOR BEACON).
- EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 1/8" LINE FOR BEACON).
- GROUND.

ANCHOR ROD SLOPE

SEE NOTE 7

120' 0" 0" TYP.

NOTE: FOR SPACE REQUIREMENTS SEE DWG. NO. C874531

TOWER PLAN TYPICAL

TOWER HT.	BASE PIER		INNER ANCHOR DATA		ROD NO.	BLOCK NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS.	REAC. LBS. IVERT.
	NO.	REAC. LBS.	REF. DWG.	BLOCK-NO.							
100'	CB2	7,630	4A	GAC3455	41.8	12	10.7	3,530	3,150		
110'	CB2	8,080	4A	GAC3455	41.5	12	10.6	3,760	3,340		
120'	CB2	8,690	4B	GAC3455	41.3	12	10.5	4,080	3,580		
130'	CB2	9,130	4B	GAC3455	41.2	12	10.5	4,300	3,760		
140'	CB2	10,000	4B	GAC3455	39.5	12	9.9	5,040	4,160		
150'	CB2	10,800	4B	GAC3455	39.4	12	9.9	5,300	4,350		
160'	CB2	11,570	4C	GAC3455	39.8	12	10	5,930	4,950		
170'	CB2	11,900	4D	GAC3455	39.3	12	9.8	6,140	5,020		
180'	CB2	12,870	4E	GAC3455	38.5	12	9.5	6,980	5,540		
190'	CB2	14,090	4E	GAC3455	36.9	12	9.7	7,670	6,190		
200'	CB2	14,640	4E	GAC3455	36.8	12	9.7	7,970	6,410		
210'	CB2	15,290	4E	GAC3455	36.7	12	9.6	8,360	6,590		

REVISIONS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THESE CONDITIONS IN SITU. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE INITIAL TENSION FOR GUY WIRES IN POUNDS AT 90 DEGREES FAHRENHEIT.

8. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THESE CONDITIONS IN SITU. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE INITIAL TENSION FOR GUY WIRES IN POUNDS AT 90 DEGREES FAHRENHEIT.

9. TRICOR AND/OR TELEPHONE TOWERS WITHIN FALLING DISTANCE OF ELEC-TRICITY TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL. STEEL GUYS WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.

10. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION. LOCAL AND NATIONAL CODES.

11. EXTRA CABLE CLAIMS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIRE-MENTS. SEE DWG. C871082.

12. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. C871382.

REV	DATE	DESCRIPTION	CSR	CHKD	TS
R2	11/10/94	REV'D 120' TO 110' FOR P/N 55G90D110	RWB	WIN	TS
R1	7-24-92	REV'D ETA-222-D TO ETA-222-E-1991	RWB	WIN	TS

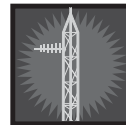
▲ Date ▲ Rev. By ▲ Chk. By ▲ Appd. By

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Scale: NONE  
 Drawn: JFW/ML 9-1-87  
 Checked: JFW 9-15-87  
 App. Eng.: JMW 9/30/87  
 App. Sales: JAE 2-12-87

Title: GUYING DETAILS FOR 100'-210'  
 55G TOWERS  
 90 MPH BASIC WIND SPEED (NO ICE)

DWG. NO.: C870496 R2



Parts List P-608  
(Replaces P-587)

**PARTS LIST FOR #55G GUYED TOWERS**  
**90 MPH Basic Wind Speed (No Ice)**

Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	1/2TBE&J	5/8TBE&J	GAC345501	AGKE	BGKE
100'	10	1	1	3	3	625'	400'		12	6		12	6		9		3	1	2
110'	11	1	1	3	3	675'	450'		12	6		12	6		9		3	1	2
120'	12	1	1	3	3	725'	500'		12	6		12	6		9		3	1	2
130'	13	1	1	3	3	800'	525'		12	6		12	6		9		3	1	2
140'	14	1	1	3	4	1275'	575'		18	6		18	6		12		3	1	2
150'	15	1	1	3	4	1375'	600'		18	6		18	6		12		3	1	2
160'	16	1	1	3	4	1500'		650'	18		6	18		6	9	3	3	1	2
170'	17	1	1	3	4	1000'	1275'		12	12		12	12		12		3	1	2
180'	18	1	1	3	5	1575'	1425'		18	12		18	12		15		3	1	2
190'	19	1	1	3	5	1650'	700'	775'	18	6	6	18	6	6	12	3	3	1	2
200'	20	1	1	3	5	1725'	725'	825'	18	6	6	18	6	6	12	3	3	1	2
210'	21	1	1	3	5	1825'	750'	850'	18	6	6	18	6	6	12	3	3	1	2

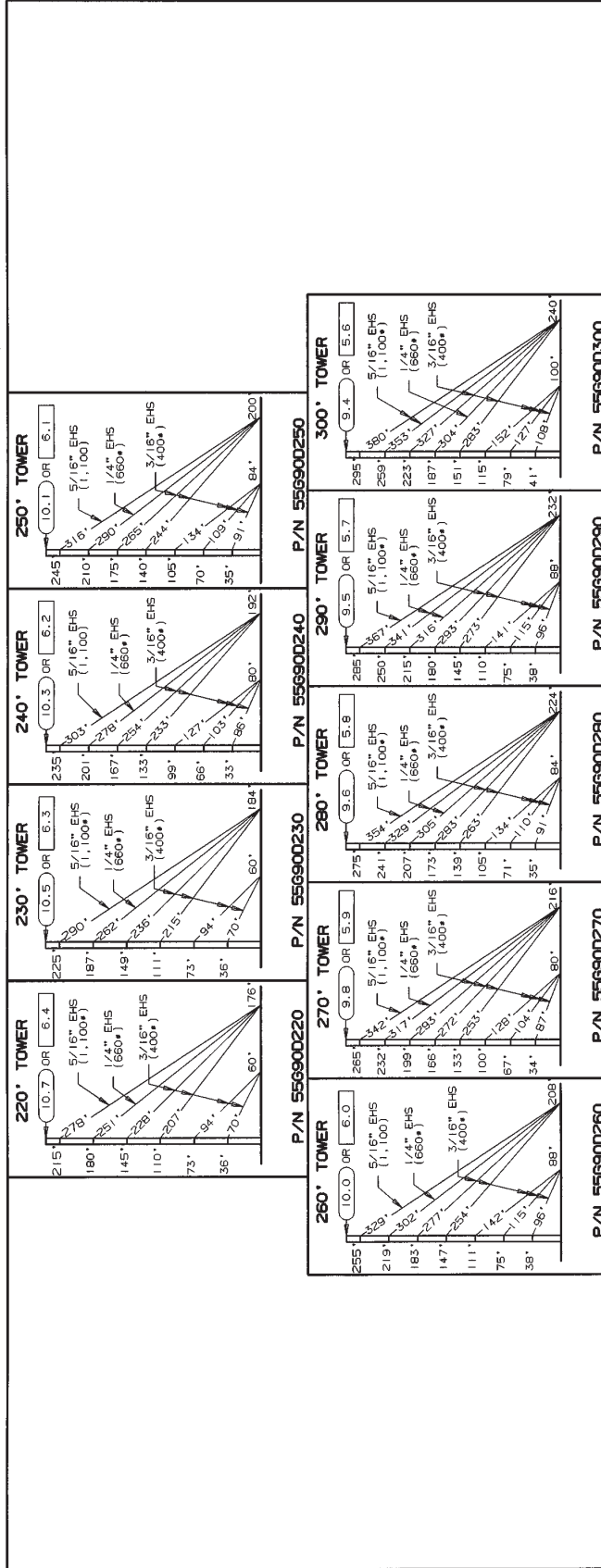
Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps, and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

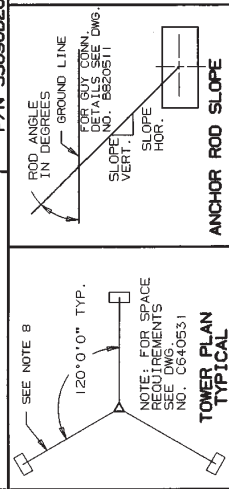
All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.





**GENERAL NOTES**

- TOWER DESIGN IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS/EIA-222-E-1991 (NO. 10C)
- ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C. MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
- ALL ANTENNA AREAS MUST BE WITHIN THE EFFECTIVE PROJECTED AREA HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 8.0 SQUARE FEET FOR SLOPE ARM DETAILS (P/N SA253UA). SEE DWG. CB21662
- DESIGN ASSUME TWO 7/8" DIA. LINES ON EACH TOWER FACE.
- TOWER DESIGNS, 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE FOR BEACON.)
- TOWER RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
- TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL AT 60 DEGREES FAHRENHEIT
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
- PERSONNEL ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
- ALL NATIONAL CODES, HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS FOR DETAILS SEE DWG. B66032A LATEST REVISION.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. AB71382.



TOWER HT.	BASE PIER		INNER ANCHOR DATA		OUTER ANCHOR DATA	
	REF. DWG.	NO.	REF. DWG.	NO.	REF. DWG.	NO.
220'	CB2	18,390	GAC303	41.9	GAC345501	43.4
230'	CB2	19,010	GAC303	42.0	GAC345501	44.0
240'	CB2	20,430	GAC303	39.7	GAC345501	43.0
250'	CB3	21,410	GAC303	40.3	GAC345501	44.0
260'	CB3	22,250	GAC303	40.3	GAC345501	44.0
270'	CB3	23,280	GAC303	39.9	GAC345501	42.9
280'	CB3	24,810	GAC303	40.1	GAC345501	42.9
290'	CB3	25,530	GAC303	40.1	GAC345501	42.9
300'	CB3	26,880	GAC303	38.0	GAC345501	42.8

REV	DATE	BY	CHKD.	APP'D.
R1	REV'D EIA-222-D TO EIA-222-E			
R2	REV'D GUY WIRE SIZE AT 207' ELEV WAS 3/16EHS			

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Scale: NONE  
 By: Date:  
 Drawn: 9-01-87  
 Checked: WFF 9-18-87  
 App. Eng.: RAM 9-30-87  
 App. Stress: AE 2-12-88

TITLE: **ROHN**  
**GUYING DETAILS FOR 220' - 300' 55G TOWERS**  
**90 MPH BASIC WIND SPEED**

DRAWING NO.: **CB70497** RE



Parts List P-609  
(Replaces P-566)

**PARTS LIST FOR #55G GUYED TOWERS**  
**90 MPH Basic Wind Speed (No Ice)**

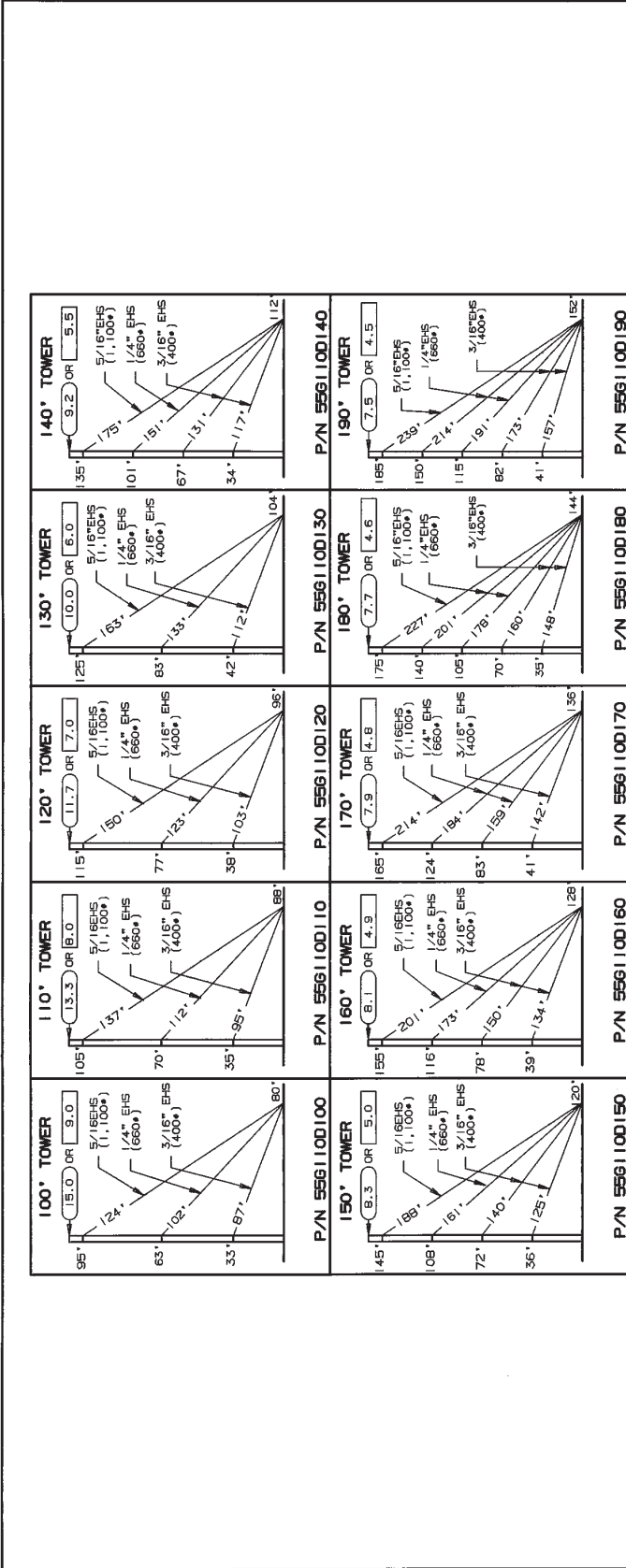
Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	3/8TBE&E	1/2TBE&J	5/8TBE&J	GAC 303	GAC345501	GAC565501	AGKE	BGKE
220'	22	1	1	3	6	1925'	800'	900'	24	6	6	24	6	6	6	9	3	3	3		2	2
230'	23	1	1	3	6	2000'	850'	925'	24	6	6	24	6	6	6	9	3	3	3		2	2
240'	24	1	1	3	7	2600'	900'	1000'	30	6	6	30	6	6	9	9	3	3	3		2	2
250'	25	1	1	3	7	2700'	925'	1025'	30	6	6	30	6	6	9	9	3	3	3		2	2
260'	26	1	1	3	7	2825'	1000'	1050'	30	6	6	30	6	6	9	9	3	3	3		2	2
270'	27	1	1	3	8	3625'	1025'	1100'	36	6	6	36	6	6	9		15	3		3	2	2
280'	28	1	1	3	8	2850'	2325'	1150'	30	12	6	30	12	6	9		15	3		3	2	2
290'	29	1	1	3	8	2925'	2350'	1175'	30	12	6	30	12	6	9		15	3		3	2	2
300'	30	1	1	3	8	3175'	1000'	2350'	30	6	12	30	6	12	9		15	3		3	2	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

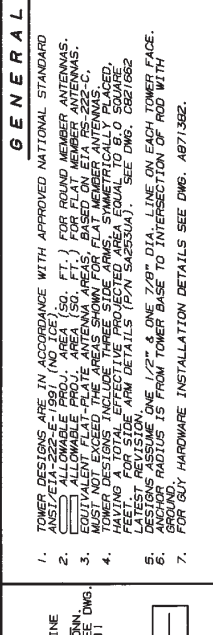
Anchor grounding (AGKE) kit, along with appropriate ground clamps, and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



SEE NOTE 8  
120'0"0" TYP.  
NOTE: FOR SPACE REQUIREMENTS SEE DWG. NO. 5540951  
TOWER PLAN TYPICAL



ANCHOR ROD SLOPE

TOWER HT.	BASE PIER REF. DWG. NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
100'	C82	10,770	4C	GAC3455	41.9	12	10.8	4,800
110'	C82	11,330	4D	GAC3455	41.5	12	10.6	5,100
120'	C82	11,860	4D	GAC3455	41.1	12	10.5	5,220
130'	C82	12,470	4D	GAC3455	40.8	12	10.4	5,450
140'	C82	13,140	4E	GAC3455	39.6	12	9.9	6,090
150'	C82	14,370	4E	GAC3455	39.4	12	9.9	7,770
160'	C82	15,190	4E	GAC3455	39.3	12	9.8	8,230
170'	C82	16,150	4E	GAC3455	39.1	12	9.8	8,900
180'	C82	17,650	6A	GAC5655	39.8	12	10.0	10,130
190'	C82	18,700	6A	GAC5655	39.6	12	9.6	10,640

- GENERAL NOTES**
- TOWER BASES ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANCHOR RODS (SEE DWG. NO. 5520511).
  - ALLOWABLE PROX. AREA (50' FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT PROX. AREA ANTENNAS ARE BASED ON MEMBER ANTENNAS. MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
  - HAVING DESIGNATIONS INCLUDING THE PREFIX "S" SHALL BE STAYED TO THE FEET. FOR SIDE ARM DETAILS (P/N 54235A). SEE DWG. 5521552.
  - CABLES SHALL BE ONE 1/2" & ONE 7/8" DIA. LINE ON EACH TOWER FACE.
  - ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
  - FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. 4871362.
  - TOWER DESIGN AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS FOR SAG AND CONNECTIONS FOR FINAL CUT LENGTHS. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES. ( ) INDICATES INITIAL TENSION FOR SAG AND CONNECTIONS FOR FINAL CUT LENGTHS. ( ) INDICATES INITIAL TENSION FOR SAG AND CONNECTIONS FOR FINAL CUT LENGTHS.
  - ROUNDER MEMBER OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
  - FOR DISMANTLING AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
  - TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR AT VISIBLE LOCATION.
  - ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
  - FOR DETAILS SEE DWG. 5560324 LATEST REVISION.

ANCHOR DATA

REF. DWG. NO.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
551062						
551062						
551062						
551062						
551062						
551062						
551062						
551062						
551062						
551062						

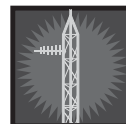
ETA-222-E-081 WAS EIA-222-D  
Revision Description  
By: KMG  
Date: 1-28-91  
Checked: KMG  
App. Eng.: TS  
App. Supv.: AE

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**ROHN**

BUYING DETAILS FOR  
100'-190' 55G TOWERS  
110 MPH BASIC WIND SPEED  
(NO ICE)

DRAWING NO.: C902043 R1



Parts List P-610  
(Replaces P-555)

## Parts List for #55G Guyed Towers

July 1, 1995

110 MPH Basic Wind Speed (No Ice)

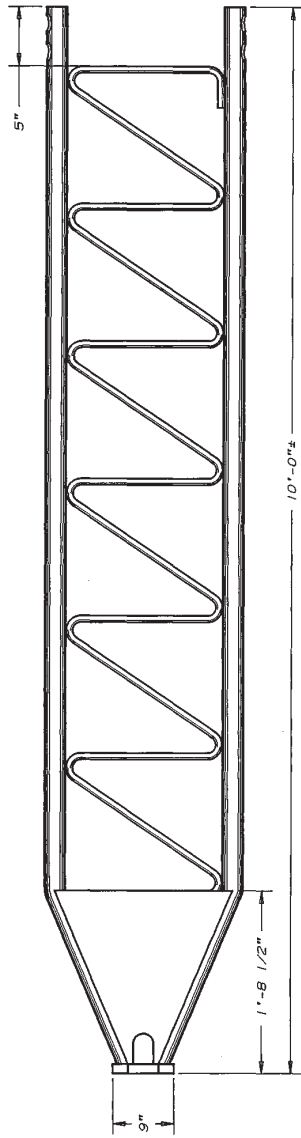
Tower Height	55G	APL55G	BPC55G w/ 3/4X12PP	SA253UA	GA55GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	1/2TBE&J	5/8TBE&J	GAC 345501	GAC 565501	AGKE	BGKE
100'	10	1	1	3	3	300'	325'	400'	6	6	6	6	6	6	6	3	3		1	2
110'	11	1	1	3	3	325'	375'	450'	6	6	6	6	6	6	6	3	3		1	2
120'	12	1	1	3	3	350'	400'	500'	6	6	6	6	6	6	6	3	3		1	2
130'	13	1	1	3	3	375'	425'	525'	6	6	6	6	6	6	6	3	3		1	2
140'	14	1	1	3	4	875'	500'	575'	12	6	6	12	6	6	9	3	3		1	2
150'	15	1	1	3	4	900'	525'	600'	12	6	6	12	6	6	9	3	3		1	2
160'	16	1	1	3	4	950'	550'	650'	12	6	6	12	6	6	9	3	3		1	2
170'	17	1	1	3	4	500'	1175'	700'	6	12	6	6	12	6	9	3	3		1	2
180'	18	1	1	3	5	1000'	1225'	725'	12	12	6	12	12	6		15		3	1	2
190'	19	1	1	3	5	1175'	1425'	775'	12	12	6	12	12	6		15		3	1	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

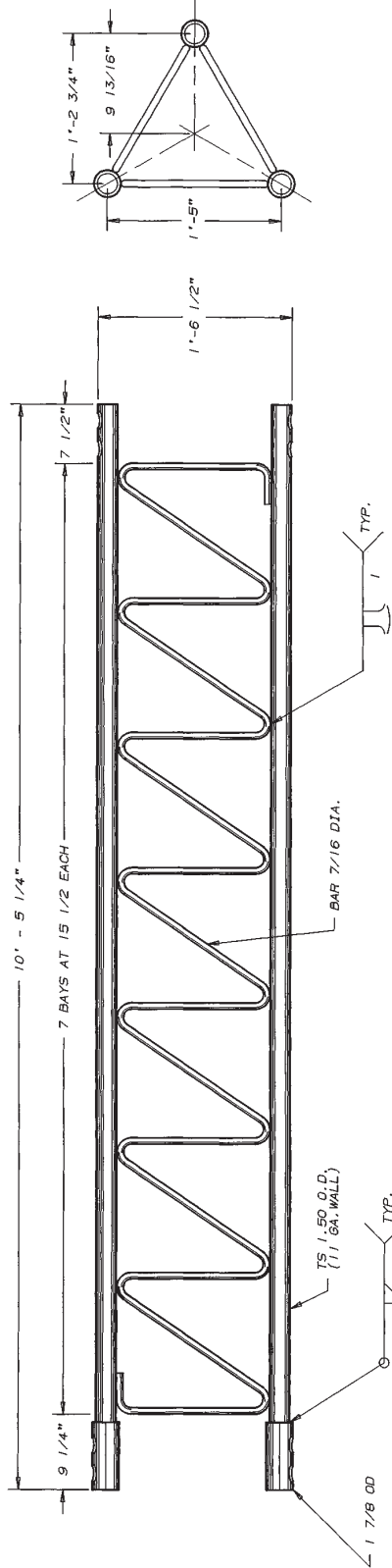
Anchor grounding (AGKE) kit, along with appropriate ground clamps, and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



**P/N 551G SECTION**



**P/N 55G SECTION**

SAE GRADE 5 BOLT ASS'YS REQUIRED (6) 7/16" DIA. X 2 1/2" LG. (NC BOLTS)

R 9	REV'D EIA-222-E-1986 TO EIA-222-E-1991	9-10-91	R.A.S.
R 8	REDRAWN AND REVISED SPEC.	02/09/88	W.D.U.
No. <u>        </u> Description <u>        </u> Date <u>        </u> By <u>        </u>			
<b>UNR-Rohn</b>			
Title <b>55G SECTION ASSEMBLY</b>			
Scale	Unless otherwise specified, dimensions are given in inches.		
Drawn by	W.D.U.	Date	2/9/88
Checked by	W.D.U.	Date	2/9/88
Approved by Engineering	W.D.U.	Date	2-11-88
Approved by Production	W.D.U.	Date	2-11-88
Approved by Sales	W.D.U.	Date	2-28-88
Drawing Number <b>C630655 R 9</b>			

**NOMENCLATURE**

- A = CROSS SECTIONAL AREA (SQ. INCHES)
- C = COMPRESSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- I = MOMENT OF INERTIA ABOUT CENTROIDAL AXES (INCHES<sup>4</sup>)
- F<sub>y</sub> = MINIMUM YIELD STRENGTH (KSI)
- K = EFFECTIVE LENGTH FACTOR (DIMENSIONLESS)
- L = UNBRACED LENGTH (INCHES)
- N/A = NOT APPLICABLE WITH 1/3 INCREASE IN ALLOWABLE STRESS (FT.-KIPS)
- S = ELASTIC SECTION MODULUS (INCHES<sup>3</sup>)
- T = TENSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- r = RADIUS OF GYRATION (INCHES)
- W = WEIGHT PER FOOT (POUNDS)
- W<sub>s</sub> = WEIGHT PER SECTION (POUNDS)

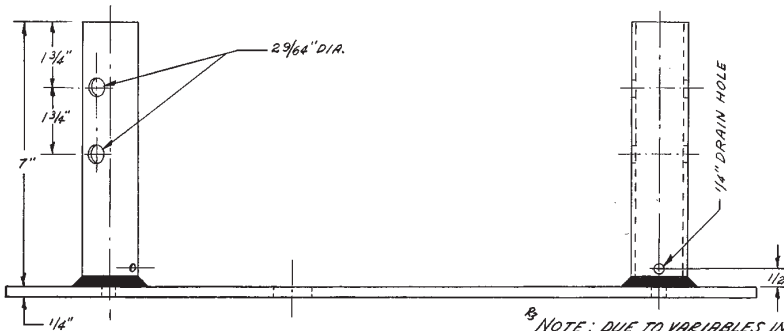
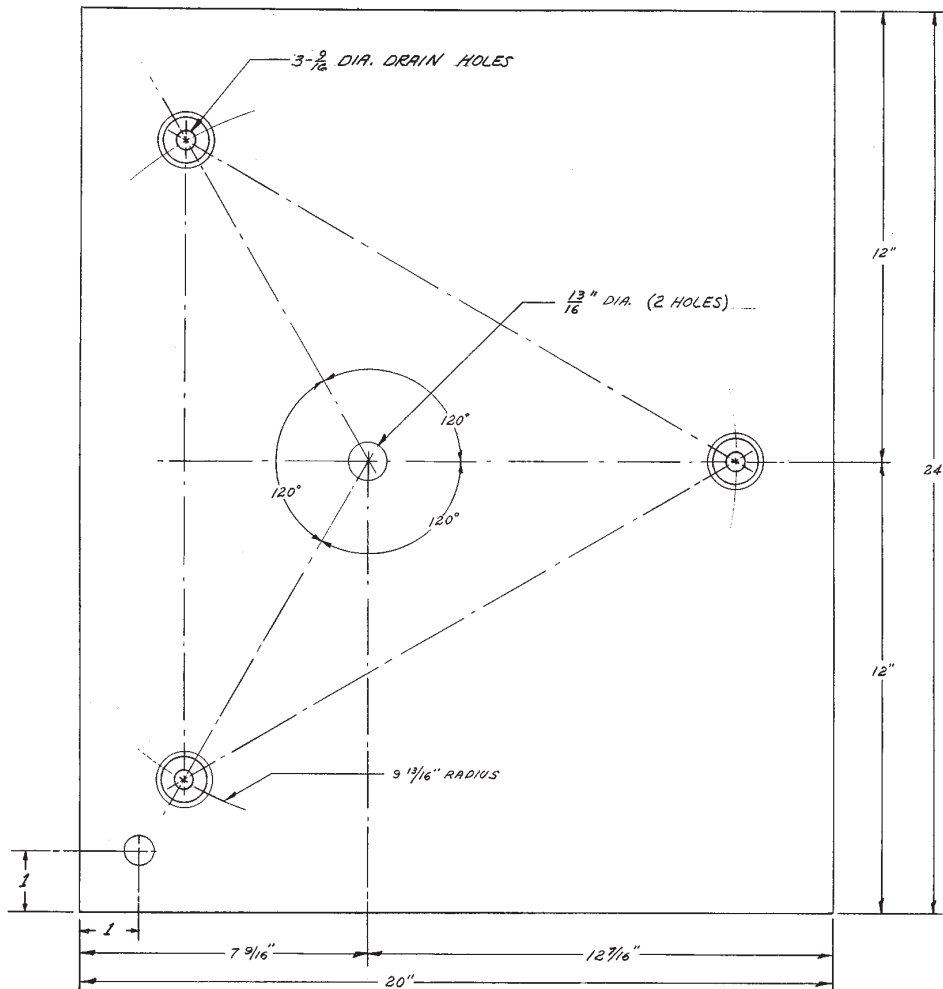
NOTE: CAPACITIES SHOWN ARE BASED ON ANSI/EIA-222-E-1991.

**55G TOWER SECTION PROPERTIES**

ITEM	LEGS	BRACES	SECTION
SIZE	TS 1.5 00X.120 WALL	BAR 7/16 DIA.	N/A
A	50.0	36.0	N/A
F <sub>y</sub>	0.5203	0.1503	1.96
S	0.1664	0.0082	7.12
I	0.1249	0.0018	75.2
L	0.4897	0.1094	6.94
K	15.5	21.9	VARIABLES
KL/r	1.0	0.70	1.0
C	31.6	140.3	VARIABLES
T	18.6	1.52	N/A
W	17.2	N/A	N/A
M	N/A	N/A	21.1
W <sub>s</sub>	1.77	0.512	9.50
	56.0	38.0	95.0



2640655R



DRAWN BY		CUSTOMER		TITLE	
CHECKED		ROHN MANUFACTURING		BASE PLATE FOR MODEL 55 TOWER	
APPROVED		PEORIA, ILLINOIS		DRAWING NO.	
DATE		6-30-64		C 640655-R6	
SCALE		1-31-74		JER	
R6	REV. TEMP. GUYING NOTE	12-5-66	LEH	12-5-66	REY
R5	ADDED TEMP. GUYING NOTE	11-3-66	REY	11-3-66	REY
R4	DELETE EXCESS HOLES	5-31-78	WEM	5-31-78	WEM
R3	ADDED NOTE	7-6-76	OK	7-6-76	OK
R2	DRAIN HOLE WAS 3/8 DIA.	1-6-75	ROB	1-6-75	ROB
R1	ADDED NOTE INDICATED	1-31-74	JER	1-31-74	JER

**NOTE:**  
AFTER GALVANIZING, CHECK DRAIN HOLES TO SEE THAT THEY ARE NOT PLUGGED.

TEMPORARY STEEL GUYING IS NECESSARY DURING INSTALLATION AND DISMANTLING.

BASE PLATE FOR CONCRETE PIER  
(PART NO. BPC55G)

**NOTE:**  
FOR USE WITH GUYED AND BRACKETED TOWERS ONLY.

**NOTE:** DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

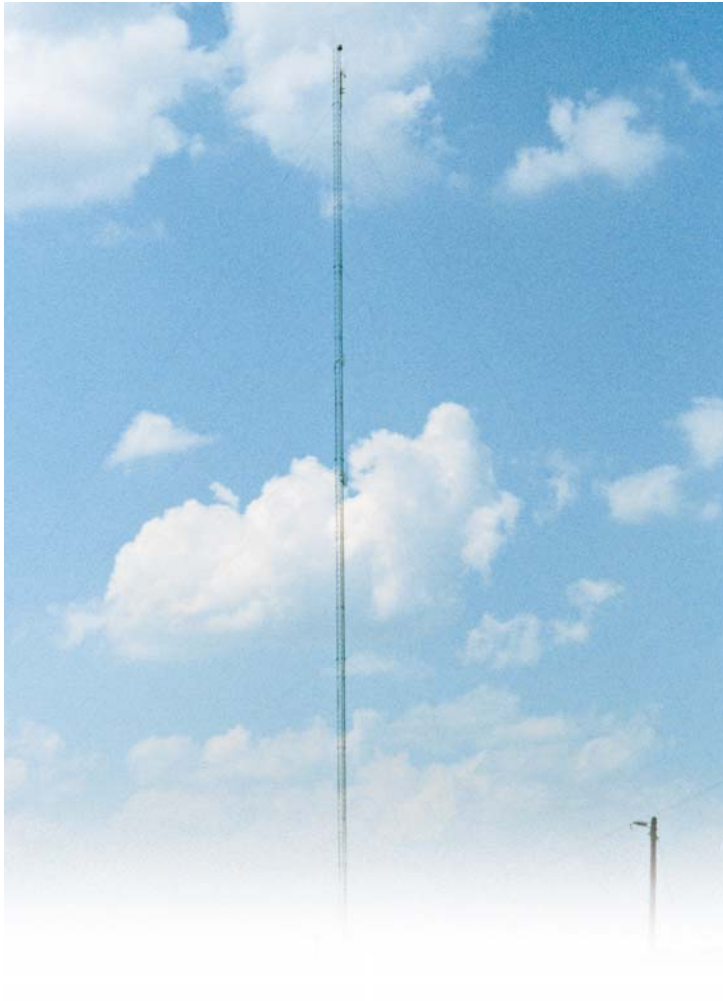
ILLINOIS RP PATENT





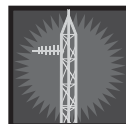


## 65G TOWER



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

Blank



Sheet D-2877  
(Replaces D-2787)

## 65G TOWER

Part No.	Description	Wt.
65G	10' tower section	173
⌘ 65ACL	10' tower section w/anti-climb	338
⌘ 65GL*	10' tower section w/guy lugs	178
⌘ 65TL*	10' tower section w/lugs for torque arms	179
⌘ 65GH	10' tower section	210
⌘ 65GHL*	10' tower section w/guy lugs	215
⌘ 65GHTL*	10' tower section w/lugs for torque arms	216
6520G	20' tower section	330
⌘ 6520GL*	20' tower section w/guy lugs	335
⌘ 6520TL*	20' tower section w/lugs for torque arms	336
⌘ 6520GH	20' tower section	390
⌘ 6520GHL*	20' tower section w/guy lugs	395
⌘ 6520GHLH*	20' tower section w/extra heavy guy lugs	430
⌘ 6520GHTL*	20' tower section w/lugs for torque arms	396
⌘ 6520GHH	20' extra heavy tower section	620
⌘ 6520DB	20' double braced tower section	530
⌘ 6520DBGL*	20' double braced tower section w/guy lugs	535
⌘ 6520DBTL*	20' double braced tower section w/lugs for torque arms	535
⌘ 6520HDB	20' double braced heavy tower section	563
⌘ 6520GHHDB	20' double braced extra heavy tower section	770
⌘ 6520GHDBLH*	20' double braced extra heavy tower section w/guy lugs	870
★ 65TG	10' tapered base	150
★⌘ 65TGACL	10' tapered base w/anti-climb	348
★⌘ 65TGH	10' tapered base	180
★⌘ 65TGIAA	10' tapered base for A4722B insulator	250
★⌘ 65TGIBA	10' tapered base for A4197 insulator	230
★ 15/16X16PP	Pier pin (for 65TG or 65TGH - one required)	3
SB65G	5' short base section for concrete	75
★ 5/8X12BB	Concrete base bolt w/double nuts	1
DP65A	Drainage plates (set of 3) (use when bolting section directly onto concrete)	9
65JBK	Joint bolt kit	4-1/2
CP4A	Cap plates (set of 3 w/nuts and bolts)	15
APL4HA	Beacon plate (leg mounted) and two cap plates w/nuts and bolts	15
APL1258UM	Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)	30
GA65GD	Guy bracket assembly	30
SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube	28
D1130	Side arm assembly	70
◆ TA656*	Channel torque arm, 6"	185
◆ TA658*	Channel torque arm, 8"	225
◆ DM654*	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	98
◆ DM654TB*	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe and tie back angle	116
◆⌘ KY509	Leg dish mount w/2" standard 5' long standard pipe	72
◆ KY510	Leg dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	102
⌘ WPCC65	Work platform	35

If ANCO nuts are required, add "AN" to part number.

\* Final digit(s) in part number determined by distance in feet from base to lug. See appropriate engineering drawing for elevations.

⌘ Available by special order only.

★ Towers mounted on this base must be guyed at all times.

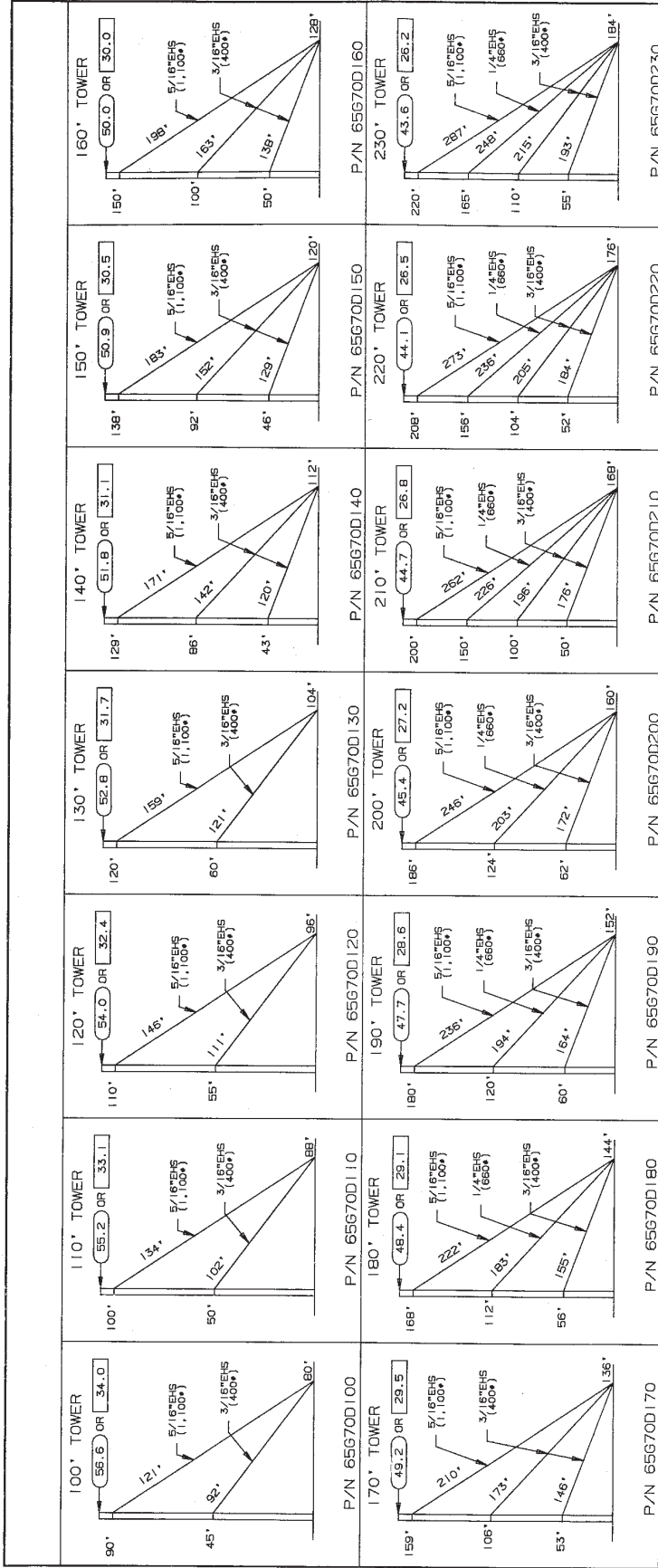
◆ This item is not to be used without proper design consideration.

Do not install towers and masts near power lines. All towers or masts should be installed twice the height of installation away from power lines since every electrical wire must be considered dangerous. ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers. All towers should be installed and dismantled by experienced and trained personnel. All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance. All antenna installations must be grounded per local and national codes. The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all data supplied by ROHN. Material used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failure and financial misfortune for all connected.

Prices available on request.

Specifications subject to change without notice.

F.O.B. Peoria, Illinois



**GENERAL NOTES**

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1981 (NO ICE) ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT FLAT-PLATE ANTENNA AREAS BASED ON FLARE JOINTS. MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS. HAVING A TOTAL EFFECTIVE PROJECTED AREA OF 12.0 SQUARE FEET. FOR SIDE ARM DETAILS (P/N 01136). SEE DWG. C780571.
- DESIGNS ASSUME TWO 7/8" DIA. LINES ON EACH TOWER FACE. TOWER DESIGN, 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND).
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
- ANCHOR DATA REF. DWG. 1 BLOCK-C620643; ROD-C660415
- REAC. LBS. REAC. HOR. VERT. HOR. VERT.
- ROD NO. ROD ANGLE HOR. SLOPE VERT. SLOPE
- BASE PIER REF. DWG. 1 C610621
- NO. REAC. LBS. BLOCK NO. ROD NO. ROD ANGLE HOR. SLOPE VERT. SLOPE
- 100' CB1 9,660 4B GAC3455 44.8 12 11.9 3,690 3,660
- 110' CB1 10,120 4B GAC3455 44.9 12 11.9 3,820 3,800
- 120' CB1 10,540 4B GAC3455 44.9 12 11.9 3,970 3,950
- 130' CB1 11,050 4B GAC3455 44.9 12 11.9 4,140 4,110
- 140' CB1 11,630 4C GAC3455 43.3 12 11.3 4,630 4,360
- 150' CB1 12,230 4C GAC3455 43.2 12 11.3 4,850 4,550
- 160' CB1 12,750 4C GAC3455 43.0 12 11.2 5,070 4,730
- 170' CB1 13,190 4C GAC3455 42.9 12 11.1 5,250 4,870
- 180' CB1 13,790 4D GAC3455 42.8 12 11.1 5,510 5,100
- 190' CB2 14,360 4D GAC3455 42.7 12 11.1 5,760 5,320
- 200' CB2 14,830 4D GAC3455 42.5 12 11.0 5,970 5,470
- 210' CB2 15,760 4D GAC3455 41.1 12 10.5 6,690 5,840
- 220' CB2 16,290 4D GAC3455 40.9 12 10.4 6,920 6,000
- 230' CB2 16,850 4E GAC3455 40.8 12 10.4 7,190 6,190

TOWER HT.		BASE PIER REF. DWG. 1 C610621		ANCHOR DATA REF. DWG. 1 BLOCK-C620643; ROD-C660415		ANCHOR ROD SLOPE		REAC. LBS.	
NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	HOR. SLOPE	VERT. SLOPE	HOR.	VERT.	HOR.
100'	9,660	4B	GAC3455	44.8	12	11.9	3,690	3,660	
110'	10,120	4B	GAC3455	44.9	12	11.9	3,820	3,800	
120'	10,540	4B	GAC3455	44.9	12	11.9	3,970	3,950	
130'	11,050	4B	GAC3455	44.9	12	11.9	4,140	4,110	
140'	11,630	4C	GAC3455	43.3	12	11.3	4,630	4,360	
150'	12,230	4C	GAC3455	43.2	12	11.3	4,850	4,550	
160'	12,750	4C	GAC3455	43.0	12	11.2	5,070	4,730	
170'	13,190	4C	GAC3455	42.9	12	11.1	5,250	4,870	
180'	13,790	4D	GAC3455	42.8	12	11.1	5,510	5,100	
190'	14,360	4D	GAC3455	42.7	12	11.1	5,760	5,320	
200'	14,830	4D	GAC3455	42.5	12	11.0	5,970	5,470	
210'	15,760	4D	GAC3455	41.1	12	10.5	6,690	5,840	
220'	16,290	4D	GAC3455	40.9	12	10.4	6,920	6,000	
230'	16,850	4E	GAC3455	40.8	12	10.4	7,190	6,190	

7-24-82 RKB L WMIN JTS  
 ▲ Date ▲ Rev. By ▲ Crd. By ▲ App. By

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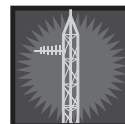
Rev. No. Description  
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 15

SECRETARY: KME By Date  
 DRAWN: PPM/ML 9-1-87  
 CHECKED: WFF 9-21-87  
 APP. ENG.: RAM 9-30-87  
 APP. SUPER.: AE 12-12-88

ENG. FILE: CB70502 R1

**ROHN**

GUYING DETAILS FOR 100'-230' 65G TOWERS  
 70 MPH BASIC WIND SPEED (NO ICE)



Parts List P-601  
(Replaces P-567)

**PARTS LIST FOR #65G GUYED TOWERS**  
**70 MPH Basic Wind Speed (No Ice)**

Tower Height	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	1/2TBE&J	5/8TBE&J	GAC345501
100'	2			400'			6		6	6	3	3	3
110'	2	325'		450'	6		6	6		6	3	3	3
120'	2	375'		475'	6		6	6		6	3	3	3
130'	2	400'		525'	6		6	6		6	3	3	3
140'	3	850'		550'	12		6	12		6	6	3	3
150'	3	900'		600'	12		6	12		6	6	3	3
160'	3	1000'		650'	12		6	12		6	6	3	3
170'	3	1025'		675'	12		6	12		6	6	3	3
180'	3	500'	600'	725'	6	6	6	6	6	6	6	3	3
190'	3	525'	625'	775'	6	6	6	6	6	6	6	3	3
200'	3	550'	650'	800'	6	6	6	6	6	6	6	3	3
210'	4	1200'	725'	850'	12	6	6	12	6	6	9	3	3
220'	4	1250'	750'	875'	12	6	6	12	6	6	9	3	3
230'	4	1300'	800'	925'	12	6	6	12	6	6	9	3	3

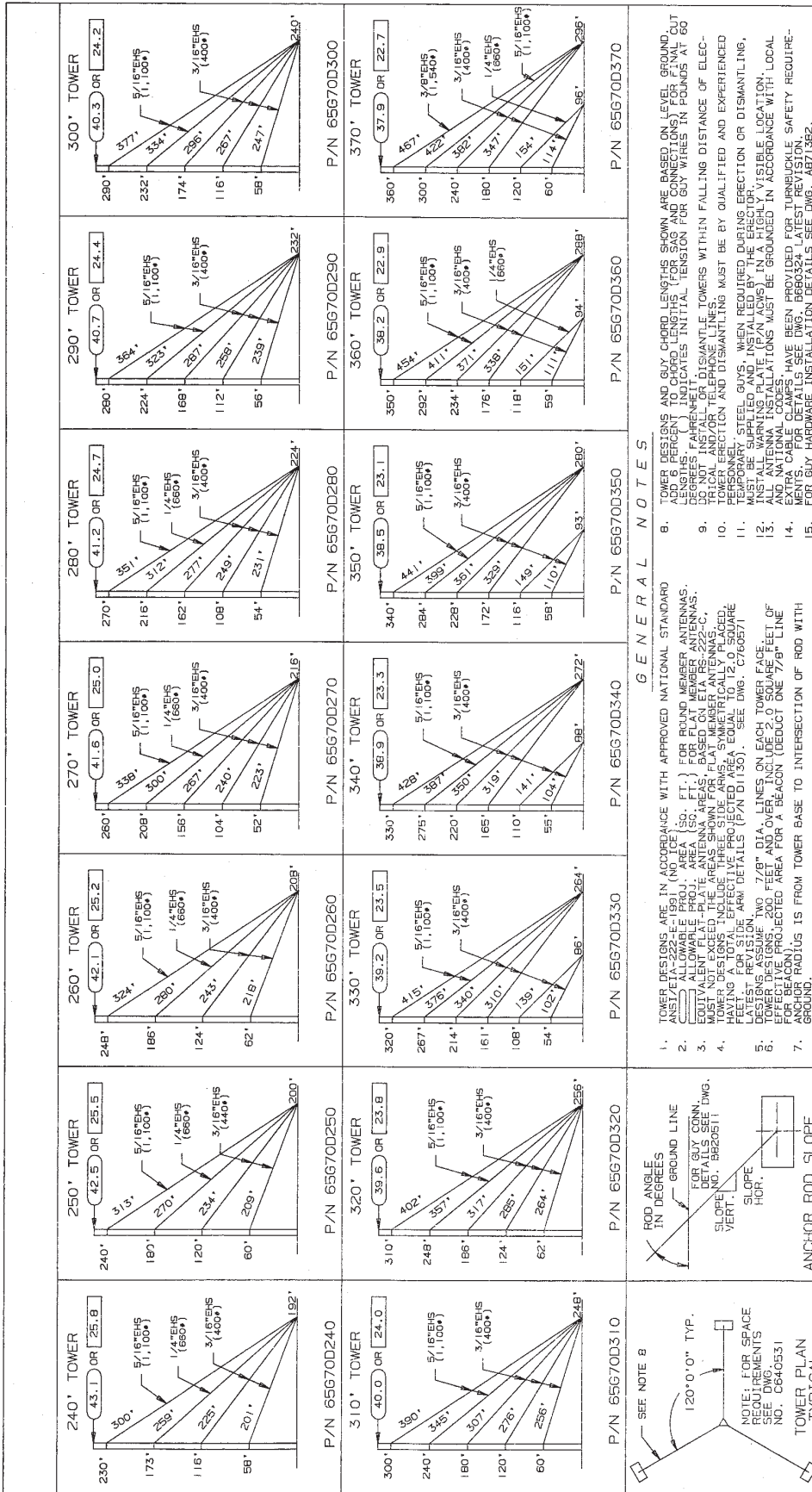
Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kit, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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





**GENERAL NOTES**

1. TOWER DESIGN IS IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANCHOR RODS ARE TO BE USED WITH APPROVED NATIONAL STANDARD ANCHOR RODS.
2. ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS. MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
3. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 FOR SIDE VIEW DETAILS (P/N D1300) SEE DWG. C760571 LATEST REVISION.
4. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
5. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
6. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
7. ANCHOR RODS ARE TO BE USED WITH APPROVED NATIONAL STANDARD ANCHOR RODS.
8. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
9. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
10. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
11. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
12. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
13. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
14. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.
15. TOWER DESIGNATIONS INCLUDE THE FOLLOWING: (P/N D1300) SEE DWG. C760571 LATEST REVISION.

TOWER HT.	INNER ANCHOR DATA			OUTER ANCHOR DATA		
	NO.	REAC. LBS.	BLOCK NO.	REAC. LBS.	BLOCK NO.	REF. DWG.
240'	CB2	17,350	4E	GAC3455	4.1	12
250'	CB2	17,860	4E	GAC3455	40.9	12
260'	CB2	18,430	4E	GAC3455	40.7	12
270'	CB2	19,420	4E	GAC3455	39.7	12
280'	CB2	20,020	4E	GAC3455	39.6	12
290'	CB2	20,870	6A	GAC5655	39.5	12
300'	CB2	21,410	6A	GAC5655	39.4	12
310'	CB3	22,060	6A	GAC5655	39.4	12
320'	CB3	22,640	6A	GAC5655	39.3	12
330'	CB3	23,130	4A	GAC303	42.6	12
340'	CB3	26,830	4A	GAC303	42.7	12
350'	CB3	27,620	4A	GAC303	42.5	12
360'	CB3	28,670	4A	GAC303	44.8	12
370'	CB3	29,900	4A	GAC303	45.0	12

TOWER HT.	INNER ANCHOR DATA			OUTER ANCHOR DATA		
	NO.	REAC. LBS.	BLOCK NO.	REAC. LBS.	BLOCK NO.	REF. DWG.
240'	CB2	17,350	4E	GAC3455	4.1	12
250'	CB2	17,860	4E	GAC3455	40.9	12
260'	CB2	18,430	4E	GAC3455	40.7	12
270'	CB2	19,420	4E	GAC3455	39.7	12
280'	CB2	20,020	4E	GAC3455	39.6	12
290'	CB2	20,870	6A	GAC5655	39.5	12
300'	CB2	21,410	6A	GAC5655	39.4	12
310'	CB3	22,060	6A	GAC5655	39.4	12
320'	CB3	22,640	6A	GAC5655	39.3	12
330'	CB3	23,130	4A	GAC303	42.6	12
340'	CB3	26,830	4A	GAC303	42.7	12
350'	CB3	27,620	4A	GAC303	42.5	12
360'	CB3	28,670	4A	GAC303	44.8	12
370'	CB3	29,900	4A	GAC303	45.0	12

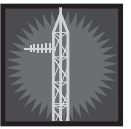
REVISIONS

NO.	Revision Description	Date	By	CS	PKB	WV	TS
R1	REV'D EIA-222-D TO EIA-222-E-1991	11/19/94	CS	PKB	WV	TS	
R2	REV'D 90 TO 70 IN TITLEBLOCK	7-24-92	PKB	WV	TS		

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Scale: NONE By: Date: Title: GUYING DETAILS FOR 240'-370' 65G TOWERS 70 MPH BASIC WIND SPEED (NO ICE)

Drawn: JWF 9-21-87  
 Checked: JWF 9-21-87  
 App. Eng.: JWF 10-1-87  
 App. Engr.: JWF 10-1-87  
 Eng. File: 0870503 R2



Parts List P-602  
(Replaces P-568)

**PARTS LIST FOR #65G GUYED TOWERS**  
**70 MPH Basic Wind Speed (No Ice)**

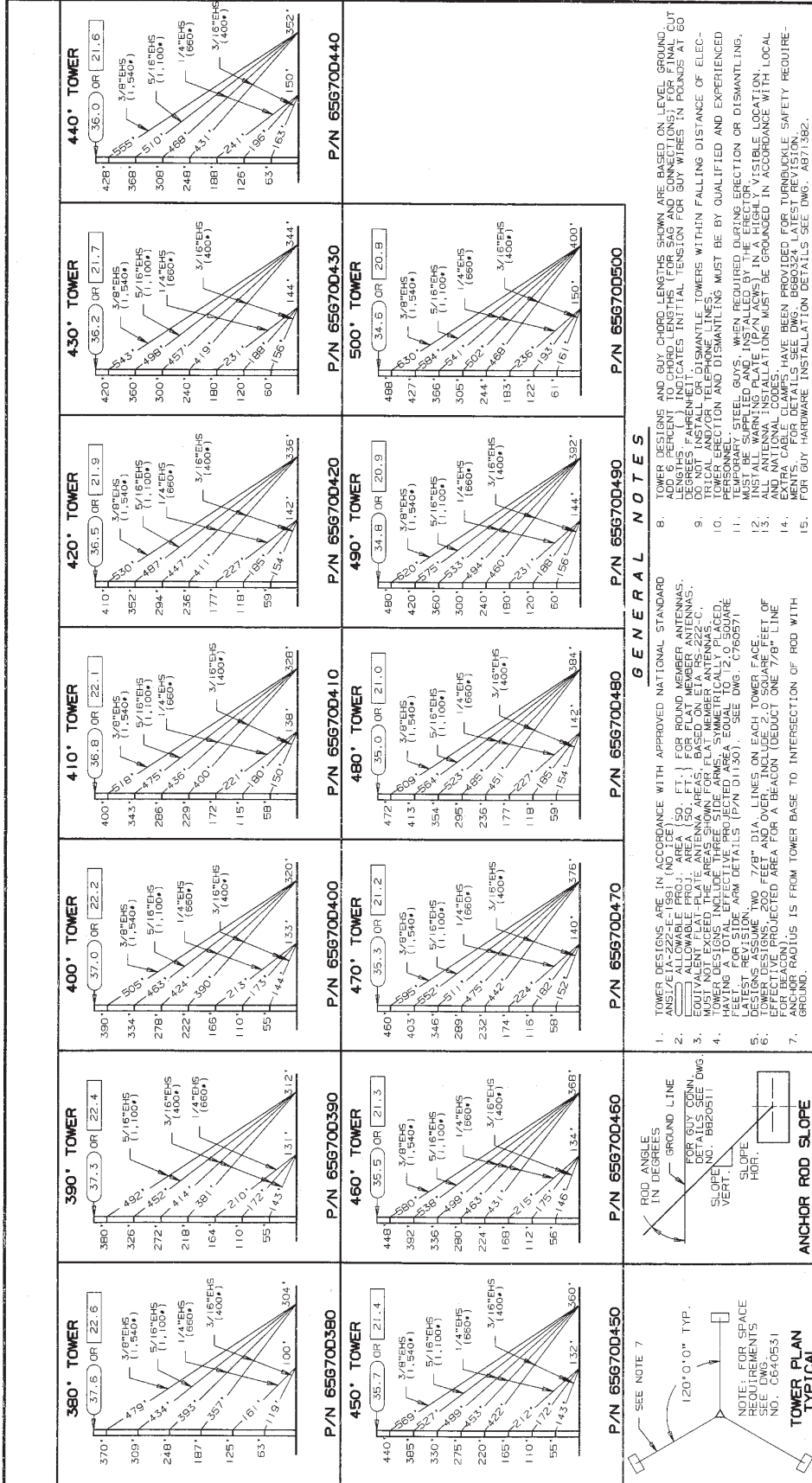
Tower Height	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	G.W. 3/8" EHS	BG2142	BG2144	BG2146	BG2147	5/16" THH	3/8" THH	7/16" THH	1/2" THH	3/8TBE&E	1/2TBE&E	1/2TBE&J	5/8TBE&J	GAC303	GAC3455	GAC565501
240'	4	1375'	1000'	975'		12	6	6		12	6	6				9	3		3	
250'	4	1425'	1000'	1000'		12	6	6		12	6	6				9	3		3	
260'	4	1500'	1000'	1050'		12	6	6		12	6	6				9	3		3	
270'	5	2325'	1000'	1075'		18	6	6		18	6	6				12	3		3	
280'	5	2500'	1000'	1125'		18	6	6		18	6	6				12	3		3	
290'	5	2500'		2200'		18		12		18		12					15			3
300'	5	2775'		2275'		18		12		18		12					15			3
310'	5	2775'		2350'		18		12		18		12					15			3
320'	5	2800'		2425'		18		12		18		12					15			3
330'	6	2850'		2525'		24		12		24		12		6			12	3		3
340'	6	2925'		2600'		24		12		24		12		6			12	3		3
350'	6	3125'		2675'		24		12		24		12		6			12	3		3
360'	6	2625'	500'	2775'		18	6	12		18	6	12		3	3		12	3		3
370'	6	2750'	500'	1350'	1500'	18	6	6	6	18	6	6	6	3	3		12	3		3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, one APL1258UM (towers over 350'), three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



**GENERAL NOTES**

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARDS.
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
- ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS.
- FOR FLAT MEMBER ANTENNAS, MUST NOT EXCEED THE AREA SHOWN FOR FLAT MEMBER ANTENNAS.
- TOWER DESIGNS INCLUDE THREE SIDE ARMS, SYMMETRICALLY PLACED.
- SEE DWG. C640531 FOR SIDE ARM DETAILS (P/N D1130). SEE DWG. C760571 FOR LATEST REVISION.
- 7/8" DIA. LINES ON EACH TOWER FACE.
- TOWER DESIGNS INCLUDE 2.0 SQUARE FEET OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE).
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.

**OUTER ANCHOR DATA**  
REF. DWG.: BLOCK-C620643; ROD-C680415

TOWER HT.	BASE PIER NO.	REAC. LBS.	BLOCK NO.	REAC. LBS.	ROD NO.	ROD ANGLE	SLOPE	REAC. LBS.
		HOR.	VERT.	HOR.	VERT.	HOR.	VERT.	HOR.
380'	CB3	31,000	4A	GAC303	44.7	12	11.9	2,790
390'	CB3	31,510	4A	GAC303	41.7	12	10.7	3,430
400'	CB4	33,190	4B	GAC3455	41.6	12	10.6	3,970
410'	CB4	34,010	4B	GAC3455	41.7	12	10.7	4,110
420'	CB4	34,770	4B	GAC3455	41.7	12	10.7	4,240
430'	CB4	35,540	4B	GAC3455	41.8	12	10.7	4,290
440'	CB4	35,480	4B	GAC3455	41.6	12	10.7	4,290
450'	CB4	37,690	4A	GAC303	41.7	12	10.7	4,590
460'	CB4	38,280	4B	GAC3455	40.6	12	10.3	3,830
470'	CB4	39,280	4B	GAC3455	41.6	12	10.6	4,040
480'	CB4	40,100	4B	GAC3455	41.8	12	10.7	4,170
490'	CB4	40,800	4B	GAC3455	41.9	12	10.8	4,170
500'	CB4	41,340	4B	GAC3455	41.3	12	10.5	4,230

**INNER ANCHOR DATA**  
REF. DWG.: BLOCK-C620643; ROD-C680415

TOWER HT.	BASE PIER NO.	REAC. LBS.	BLOCK NO.	REAC. LBS.	ROD NO.	ROD ANGLE	SLOPE	REAC. LBS.
		HOR.	VERT.	HOR.	VERT.	HOR.	VERT.	HOR.
380'	CB3	31,000	4A	GAC303	43.5	12	11.4	10,430
390'	CB3	31,510	4A	GAC303	44.4	12	11.8	9,500
400'	CB4	33,190	4B	GAC3455	44.3	12	11.7	10,400
410'	CB4	34,010	4B	GAC3455	44.3	12	11.7	10,590
420'	CB4	34,770	4B	GAC3455	44.3	12	11.7	10,770
430'	CB4	35,540	4B	GAC3455	44.2	12	11.7	11,060
440'	CB4	35,480	4B	GAC3455	44.2	12	11.7	11,240
450'	CB4	37,690	4A	GAC303	43.0	12	11.2	13,120
460'	CB4	38,280	4B	GAC3455	42.6	12	11.2	13,970
470'	CB4	39,280	4B	GAC3455	43.0	12	11.2	13,570
480'	CB4	40,100	4B	GAC3455	43.0	12	11.2	13,950
490'	CB4	40,800	4B	GAC3455	42.9	12	11.1	14,100
500'	CB4	41,340	4B	GAC3455	42.8	12	11.1	14,350

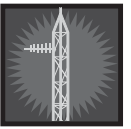
**REVISIONS**

REV.	DESCRIPTION	DATE	BY	CHKD.
1	REVISED GENERAL NOTES	2-24-87	RWB	WJL
2	REVISED GENERAL NOTES	9-1-87	WRF	WJL
3	REVISED GENERAL NOTES	10-1-87	RAM	WJL

**ROHN**

GUYING DETAILS FOR 380' - 500' 65G TOWERS 70 MPH BASIC WIND SPEED (NO ICE)

Scale: NONE  
 Drawn: WRF  
 Checked: WRF  
 App. Eng.: RAM  
 App. Status: AE  
 Date: 2-12-89  
 Eng. File: CB70504.R1



Parts List P-603  
(Replaces P-575)

**PARTS LIST FOR #65G GUYED TOWERS**  
**70 MPH Basic Wind Speed (No Ice)**

Tower Height	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	G.W. 3/8" EHS	BG2142	BG2144	BG2146	BG2147	5/16" THH	3/8" THH	7/16" THH	1/2" THH	3/8TBE&E	1/2TBE&E	1/2TBE&J	5/8TBE&J	GAC303	GAC3455	GAC56501
380'	6	1525'	1775'	1375'	1400'	12	12	6	6	12	12	6	6	3	3		12	3		3
390'	7	3650'	725'	3025'		24	6	12		24	6	12		6	3		12	3		3
400'	7	2325'	2225'	1475'	1625'	18	12	6	6	18	12	6	6			9	12		3	3
410'	7	2325'	2250'	1525'	1650'	18	12	6	6	18	12	6	6			9	12		3	3
420'	7	2400'	2250'	1550'	1700'	18	12	6	6	18	12	6	6			9	12		3	3
430'	7	2450'	2250'	1600'	1750'	18	12	6	6	18	12	6	6			9	12		3	3
440'	7	2675'	2275'	1625'	1775'	18	12	6	6	18	12	6	6			9	12		3	3
450'	8	2350'	3725'	1700'	1825'	18	18	6	6	18	18	6	6	6	3		15	3		3
460'	8	1025'	5250'	1725'	1850'	12	24	6	6	12	24	6	6	6	3		15	3		3
470'	8	2500'	4000'	1775'	1900'	18	18	6	6	18	18	6	6			9	15		3	3
480'	8	2675'	4000'	1800'	1950'	18	18	6	6	18	18	6	6			9	15		3	3
490'	8	2675'	4000'	1850'	1975'	18	18	6	6	18	18	6	6			9	15		3	3
500'	8	2675'	4250'	1875'	2025'	18	18	6	6	18	18	6	6			9	15		3	3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, one APL1258UM (towers over 350'), three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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







July 1, 1995

Parts List P-604  
(Replaces P-585)

### **PARTS LIST FOR #65G GUYED TOWERS** **90 MPH Basic Wind Speed (No Ice)**

Tower Height	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	1/2TB&J	5/8TB&J	GAC3455	GAC565501
100'	2		300'	400'		6	6		6	6	3	3	3	
110'	2		325'	425'		6	6		6	6	3	3	3	
120'	2		375'	475'		6	6		6	6	3	3	3	
130'	2		400'	525'		6	6		6	6	3	3	3	
140'	3	400'	450'	550'	6	6	6	6	6	6	6	3	3	
150'	3	425'	500'	600'	6	6	6	6	6	6	6	3	3	
160'	3	450'	525'	650'	6	6	6	6	6	6	6	3	3	
170'	3	500'	550'	675'	6	6	6	6	6	6	6	3	3	
180'	3	500'	600'	725'	6	6	6	6	6	6	6	3	3	
190'	3	525'		1375'	6		12	6		12	3	6	3	
200'	3	550'		1425'	6		12	6		12	3	6	3	
210'	4	1200'		1550'	12		12	12		12	6	6	3	
220'	4	600'	650'	1625'	6	6	12	6	6	12		12		3
230'	4	625'	700'	1700'	6	6	12	6	6	12		12		3

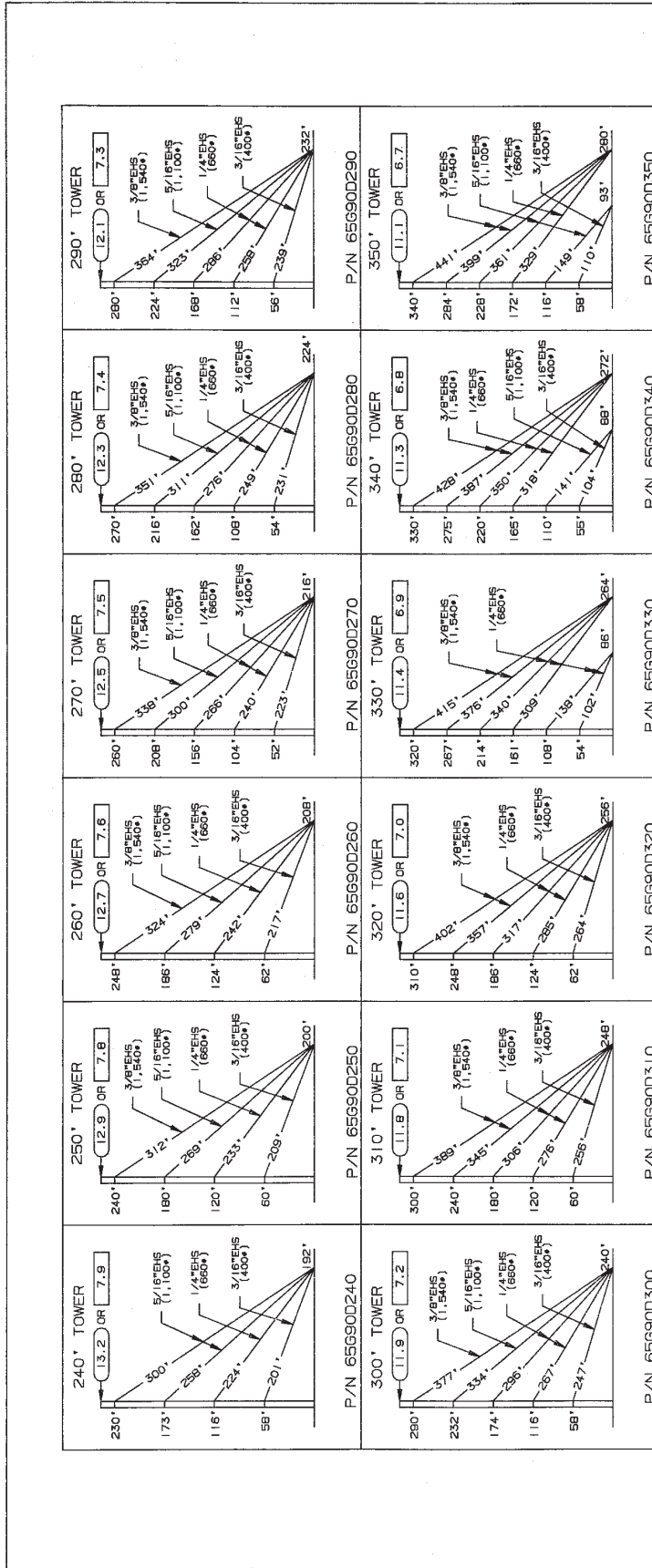
Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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





**GENERAL NOTES**

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD (ANSI) ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS.
- GUY WIRE ATTACHMENT POINTS SHALL BE LOCATED AT 120' O.C. TYP.
- TOWER DESIGNS INCLUDE THREE SLIDE ARMS, SYMMETRICALLY PLACED, FOR THE PROTECTION OF THE GUY WIRE ATTACHMENT POINTS.
- LATEST REVISIONS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVER BRIND LENGTHS (DEGREES FAHRENHEIT) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 80 DEGREES FAHRENHEIT. DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRIC AND/OR TELEPHONE LINES.
- TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- EXTRA CABLE CLAIMS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. AB71382.

TOWER HT.	INNER ANCHOR DATA			OUTER ANCHOR DATA		
	REF. DWG.	BLOCK NO.	ROD NO.	REF. DWG.	BLOCK NO.	ROD NO.
240'	C62	21,070	6A	GAC5655	39.8	12
250'	C63	22,610	6A	GAC5655	39.8	12
260'	C63	23,340	6A	GAC5655	39.8	12
270'	C63	25,040	6B	GAC5655	39.8	12
280'	C63	25,810	6B	GAC5655	39.8	12
290'	C63	25,790	6B	GAC5655	39.8	12
300'	C63	27,600	6C	GAC5655	39.8	12
310'	C63	29,030	6C	GAC5655	39.8	12
320'	C63	29,630	6C	GAC5655	39.8	12
330'	C64	35,980	4B	GAC3455	43.0	12
340'	C64	37,490	4B	GAC3455	45.6	12
350'	C64	39,540	4C	GAC3455	45.4	12

RI REV'D EIA-222-D TO EIA-222-E-1991

No. Revision Description

Date Rev. By. Chd. By. App'd By.

7-24-91 RWB WMM 75

9-1-97

9-22-97

10-1-97

2-12-99

ENG. FILE.

DRAWING NO. 1. C870679 R1

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Scale: NONE

By: Date

Drawn: 9-1-97

Checked: RW 9-22-97

App. Eng.: RW 10-1-97

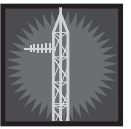
App. Stress: AE 2-12-99

TITLE: GUYING DETAILS FOR 240'-350' 65G TOWERS 90 MPH BASIC WIND SPEED (NO ICE)

R O H N

GUYING DETAILS FOR 240'-350' 65G TOWERS 90 MPH BASIC WIND SPEED (NO ICE)

SCALE: NONE



Parts List P-605  
(Replaces P-570)

**PARTS LIST FOR #65G GUYED TOWERS**  
**90 MPH Basic Wind Speed (No Ice)**

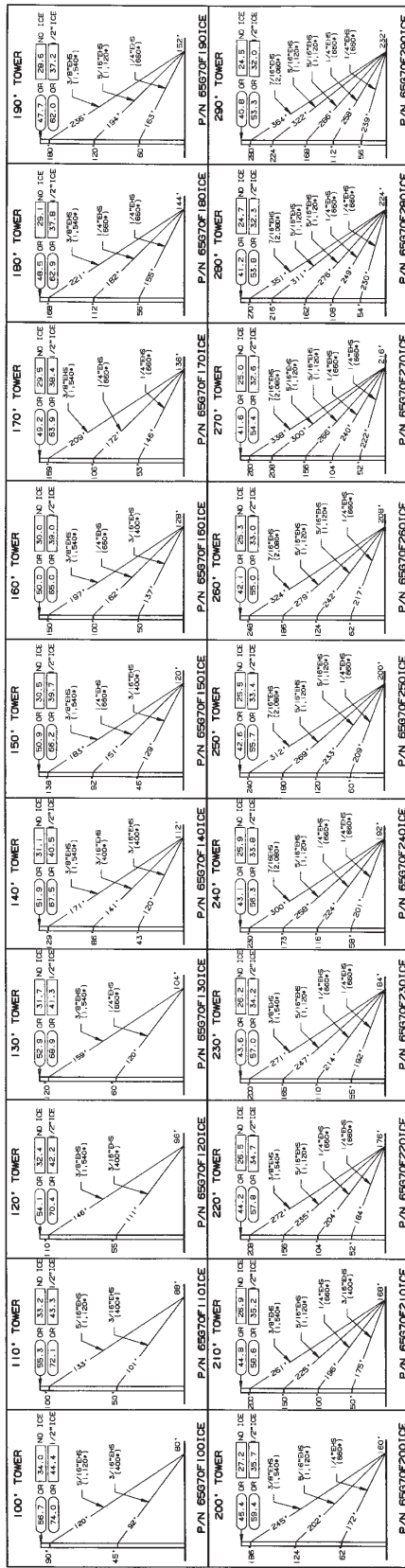
Tower Height	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	G.W. 3/8" EHS	BG2142	BG2144	BG2146	BG2147	5/16" THH	3/8" THH	7/16" THH	1/2" THH	1/2TBE&J	5/8TBE&J	GAC3455	GAC56501
240'	4	650'	725'	1775'		6	6	12		6	6	12			12		3
250'	4	675'	750'	875'	1000'	6	6	6	6	6	6	6	6		12		3
260'	4	700'	775'	900'	1050'	6	6	6	6	6	6	6	6		12		3
270'	5	725'	1625'	975'	1075'	6	12	6	6	6	12	6	6		15		3
280'	5	750'	1675'	1000'	1125'	6	12	6	6	6	12	6	6		15		3
290'	5	775'	1750'	1050'	1175'	6	12	6	6	6	12	6	6		15		3
300'	5	800'	1800'	1075'	1200'	6	12	6	6	6	12	6	6		15		3
310'	5	825'	1875'		2350'	6	12		12	6	12		12		15		3
320'	5	850'	1925'		2425'	6	12		12	6	12		12		15		3
330'	6		2875'		2525'		24		12		24		12	6	12	3	3
340'	6	350'	2350'	450'	2600'	6	12	6	12	6	12	6	12	3	15	3	3
350'	6	350'	1050'	1625'	2675'	6	6	12	12	6	6	12	12	3	15	3	3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

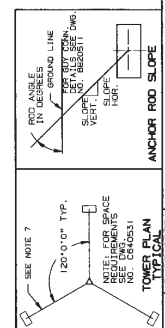
Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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



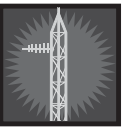
GENERAL NOTES

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD B. ANGLE/AREA/STA-222-F-1096 (1/2" RADIAL ICE LOAD).
2. ALLOWABLE PROJ. AREA (SQ. FT.) FOR FOUND MEMBER ANTENNAS.
3. EQUIVALENT FLAT PLATE ANTENNA AREAS, BASED ON LEA-RS-222-C.
4. TOWER DESIGNS INCLUDE LARGE SIDE ARMS, SYMMETRICALLY PLACED, HAVING A TOTAL EFFECTIVE PROJECTED AREA EQUAL TO 12.0 SQUARE FEET.
5. DESIGN ASSUMES TWO 7/8" DIA. ANCHORS ON EACH TOWER FACE OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND).
6. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND, LEAST PERCENT UNIFORM WIND TENSION AND DOWNWINDS FOR FINAL CUT DEGREES FAHRENHEIT (TEMPERATURE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES).
7. TOWER SECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE WORKING AND TYPICAL LEGS IN THE FIELD OF VISIBLE LOCATION.
8. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL EXTRA CABLE CLAIMS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. 65G0324 LATEST REVISION.
9. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. 4871382.



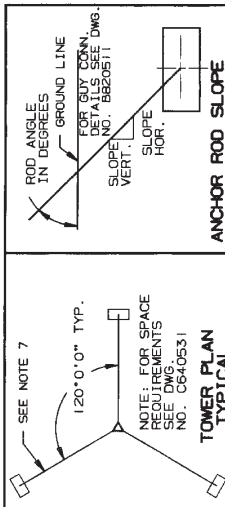
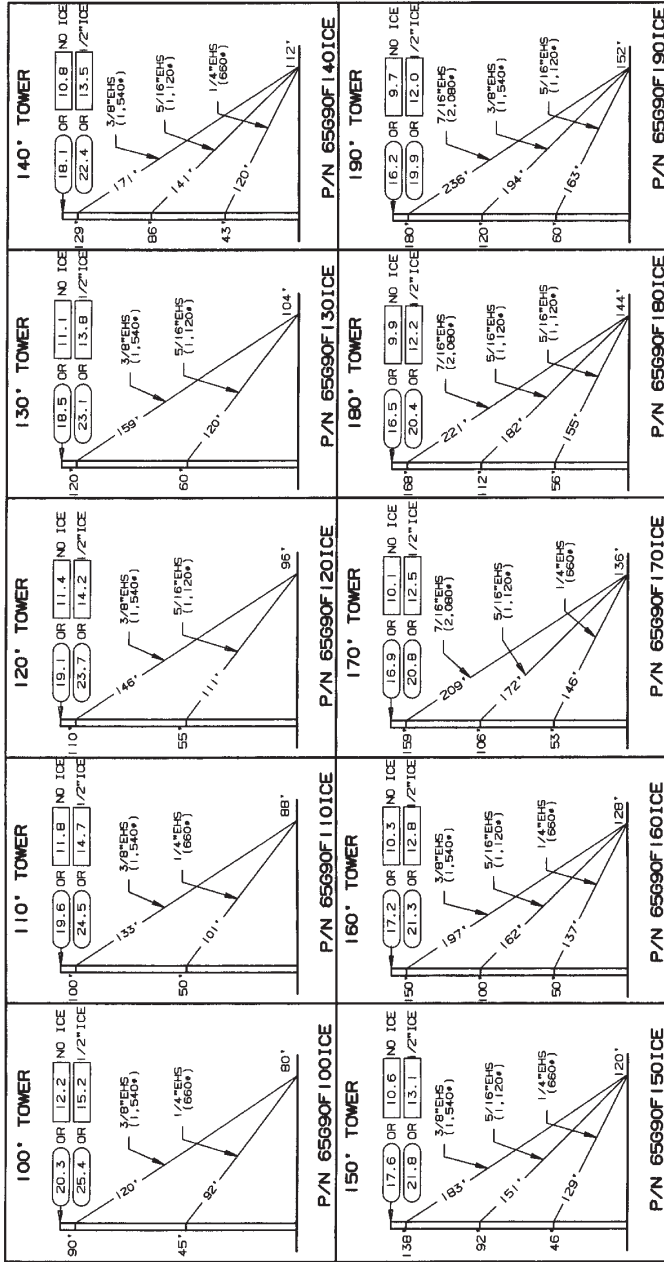
TOWER HEIGHT	NO.	REAC. LBS.	BLOCK NO.	NO.	ROD ANGLE	SLOPE	NO.	ROD ANGLE	SLOPE	NO.	REAC. LBS.	HOR. VERT.	HOR. VERT.
100'	C81	12,430	4C	5AC245510F	43.4	12	11.3	4,860	4,860				
110'	C82	15,830	4C	5AC245510F	43.5	12	11.4	5,500	5,500				
120'	C83	19,330	4C	5AC245510F	43.6	12	11.5	6,150	6,150				
130'	C84	22,930	4C	5AC245510F	43.7	12	11.6	6,800	6,800				
140'	C85	26,630	4C	5AC245510F	43.8	12	11.7	7,450	7,450				
150'	C86	30,430	4C	5AC245510F	43.9	12	11.8	8,100	8,100				
160'	C87	34,330	4C	5AC245510F	44.0	12	11.9	8,750	8,750				
170'	C88	38,330	4C	5AC245510F	44.1	12	12.0	9,400	9,400				
180'	C89	42,430	4C	5AC245510F	44.2	12	12.1	10,050	10,050				
190'	C90	46,630	4C	5AC245510F	44.3	12	12.2	10,700	10,700				
200'	C91	50,930	4C	5AC245510F	44.4	12	12.3	11,350	11,350				

65G TOWER 100' TO 200' (1/2" RADIAL ICE LOAD)  
 SHEET 1 OF 1  
 DWG. NO. 65G0324  
 DATE 11-11-82  
 DESIGNED BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]



## COMPLETE ROHN 65G GUYED TOWERS

Tower Height	70 MPH Basic Wind Speed – 1/2' Ice		90 MPH Basic Wind Speed – 1/2' Ice	
	Part Number	Weight	Part Number	Weight
100'	np 65G70F100ICE	2230	np 65G90F100ICE	2273
110'	np 65G70F110ICE	2413	np 65G90F110ICE	2461
120'	np 65G70F120ICE	2661	np 65G90F120ICE	2713
130'	np 65G70F130ICE	2859	np 65G90F130ICE	2900
140'	np 65G70F140ICE	3145	np 65G90F140ICE	3533
150'	np 65G70F150ICE	3349	np 65G90F150ICE	3726
160'	np 65G70F160ICE	3567	np 65G90F160ICE	3949
170'	np 65G70F170ICE	3759	np 65G90F170ICE	4227
180'	np 65G70F180ICE	3973	np 65G90F180ICE	4493
190'	np 65G70F190ICE	4354	np 65G90F190ICE	4746
200'	np 65G70F200ICE	4577		
210'	np 65G70F210ICE	5076		
220'	np 65G70F220ICE	5300		
230'	np 65G70F230ICE	5490		
240'	np 65G70F240ICE	5866		
250'	np 65G70F250ICE	6132		
260'	np 65G70F260ICE	6362		
270'	np 65G70F270ICE	6732		
280'	np 65G70F280ICE	6962		
290'	np 65G70F290ICE	7182		



**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/TIA/EIA-222-F, 1996 (1/2" RADIAL ICE LOAD).
2. ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS, EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA 65-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
3. ALL ANTENNAS MUST BE PROTECTED BY A 12.0 SQUARE FEET PROTECTED AREA EQUAL TO 12.0 SQUARE FEET FOR SIDE ARM DETAILS (P/N D1130), SEE DWG. C760571.
4. DESIGN ASSUME TWO 7/8" DIA. LINES ON EACH TOWER FACE.
5. TOWER DESIGNS, 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF PROTECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE FOR BEACON).
6. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
7. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. FINGER INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 PERCENT STRETCH.
8. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
9. PERSONNEL CONDUCTING ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
10. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE WALKED AND INSTALLED BY THE DIRECTOR OF CONSTRUCTION.
11. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
12. VISIBILITY LOCATIONS MUST BE MARKED AND INDICATED BY THE DIRECTOR OF CONSTRUCTION.
13. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
14. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
15. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. B680324, LATEST REVISION.

TOWER HT.	BASE PIER		ANCHOR DATA		ANCHOR ROD SLOPE	
	REF. DWG.	NO.	REF. DWG.	NO.	ROD ANGLE	SLOPE HOR.
100'	C61082	40	C620643	15	12	10.6
110'		40		15	12	10.6
120'		40		15	12	10.6
130'		40		15	12	10.3
140'		6A		15	12	10.3
150'		6A		15	12	9.7
160'		6B		15	12	9.6
170'		6B		15	12	9.7
180'		6B		15	12	9.5
190'		6C		15	12	9.5

1-17-00 ACS **XXX**

Revised Description: **ROHN**

Scale: NONE By: Date

Drawn: JHN 01-06-99

Checked: SRH 4-9-99

App. Eng.: TS 4-9-99

Parent File: **C981852**

ENG. FILE: **C981852**

DWG. NO.: **C981852**

SHEET 1 OF 1 (REV.)

GUYING DETAILS FOR 100'-190' 65G TOWERS 90 MPH BASIC WIND SPEED (1/2" RADIAL ICE LOAD)



Parts List P-634  
(New Sheet)

**PARTS LIST FOR #65G GUYED TOWERS**  
**90 MPH Basic Wind Speed (1/2" Ice)**

TOWER HEIGHT	GA65GD	G.W. 1/4" EHS	G.W. 5/16" EHS	G.W. 3/8" EHS	G.W. 7/16" EHS	BG2144	BG2146	BG2147	BG2148	3/8" THH	7/16" THH	1/2" THH	9/16" THH	1/2TB E&J	5/8TB E&J	GAC 3/4TB E&J	GAC 3455 TOP	5755 TOP
100'	2	350'		400'		6		6		6		6		3	3		3	
110'	2	350'		450'		6		6		6		6		3	3		3	
120'	2		400'	500'			6	6			6	6			6		3	
130'	2		400'	550'			6	6			6	6			6		3	
140'	3	400'	500'	600'		6	6	6		6	6	6				9		3
150'	3	450'	500'	650'		6	6	6		6	6	6				9		3
160'	3	500'	550'	700'		6	6	6		6	6	6				9		3
170'	3	500'	600'		700'	6	6		6	6	6		6			9		3
180'	3		1150'		750'		12		6		12		6			9		3
190'	3		550'	650'	800'		6	6	6		6	6	6			9		3

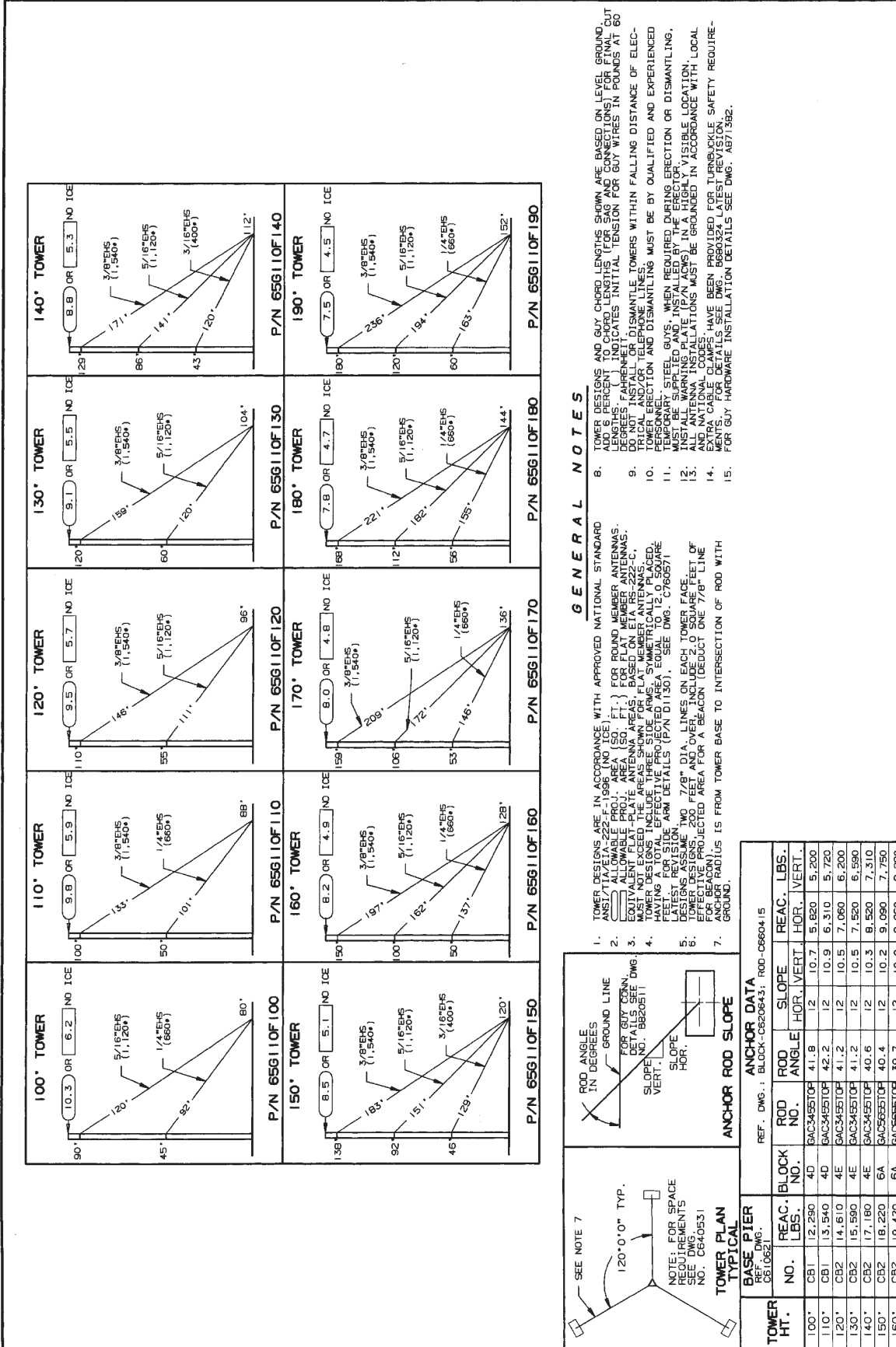
Items shown above, plus one 65TG, one 15X16PP, one APL4HA, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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





No. **651002** Revision Description **▲ Rev. By: Cld By: Aep 02**

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Score: NONE By: JHN Date: 01-06-99  
 Drawn: JHN Date: 3/9/99  
 Checked: JHN Date: 3/9/99  
 App. Eng.: JHN Date: 7/19/99  
 Parent File: 110MPH BASIC WIND SPEED (NO ICE)

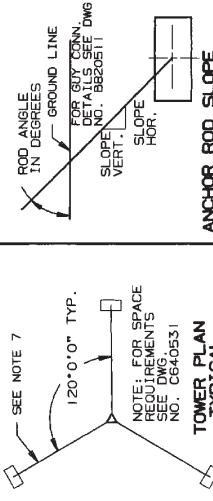
**ROHN**

GUYING DETAILS FOR 100'-190'  
 65G TOWERS  
 110MPH BASIC WIND SPEED (NO ICE)

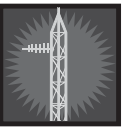
ENG. FILE: **C981893**  
 SHEET 1 OF 1

**GENERAL NOTES**

- TOWER DESIGN IS IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/TIA/EIA-222-F-11995 (NO ICE) OR 222-F-11996 (WITH ICE).
- ALLOWABLE PROJ. AREA (50 FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT WIND PROJE. AREA ANTENNAS ARE PLANNED TO BE USED. MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
- TOWER DESIGN INCLUDES THREE SIDE ARMS, SYMMETRICALLY PLACED FEET FROM SIDE ARM DETAILS (P/N D1130). SEE DWG. C760371.
- LATEST REVISION, NO 7/8" DIA. LINES ON EACH TOWER FACE.
- TOWER DESIGN IS 200 FEET AND OVER INCL. 2.0 SQUARE FEET OF EFFECTIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" LINE ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND).
- TOWER DESIGN IS IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/TIA/EIA-222-F-11995 (NO ICE) OR 222-F-11996 (WITH ICE).
- ROD ANGLE IN DEGREES
- ROD LENGTHS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND BUT ADDS PERCENTAGE TO GUY CHORD LENGTHS TO COVER INITIAL TENSION FOR GUY WIRES IN POUNDS AT 50 DEGREES FAHRENHEIT DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
- TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED TEMPORARY STEEL GUYS. WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- ALL WENTS, CABLE CLAMPS, HAVE BEEN PROVIDED FOR TURN-OVER CYCLE SAFETY REQUIREMENTS. SEE DWG. C981893 FOR DETAILS.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A371392.



TOWER HT.	BASE PIER		ANCHOR DATA						
	NO.	REAC. LBS.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS.	REAC. HOR.	REAC. VERT.
100'	CB1	12,290	4D	BAC348510F	41.8	12	10.7	5,620	5,200
110'	CB1	13,540	4D	BAC348510F	42.2	12	10.9	6,310	5,720
120'	CB2	14,610	4E	BAC348510F	41.2	12	10.5	7,060	6,200
130'	CB2	15,590	4E	BAC348510F	41.2	12	10.5	7,520	6,590
140'	CB2	17,180	4E	BAC348510F	40.6	12	10.3	8,520	7,310
150'	CB2	18,220	6A	BAC566510F	40.4	12	10.2	9,090	7,750
160'	CB2	19,420	6A	BAC566510F	39.7	12	10.0	9,960	8,280
170'	CB2	20,430	6A	BAC566510F	39.5	12	10.0	10,530	9,700
180'	CB2	21,570	6A	BAC566510F	39.5	12	10.0	11,140	9,190
190'	CB3	22,740	6A	BAC566510F	39.5	12	10.0	11,770	9,690



Parts List P-632  
(New Sheet)

**PARTS LIST FOR #65G GUYED TOWERS**  
**110 MPH Basic Wind Speed (No Ice)**

TOWER HEIGHT	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	G.W. 3/8" EHS	BG2142	370023 GC65136 (KITS) BG2144	370025 GC65128 (KITS) BG2146	370027 GC65264 (KITS) BG2147	5/16" THH	3/8" THH	7/16" THH	1/2" THH	1/2TB E&J	5/8TB E&J	GAC 3455 TOP	GAC 5655 TOP
100'	2		350'	400'			6	6			6	6		3	3	3	
110'	2		350'		450'		6		6		6		6	3	3	3	
120'	2			400'	500'			6	6			6	6		6	3	
130'	2			400'	550'			6	6			6	6		6	3	
140'	3	400'		500'	600'	6		6	6	6		6	6	3	6	3	
150'	3	450'		500'	650'	6		6	6	6		6	6		9		3
160'	3		500'	550'	700'		6	6	6		6	6	6		9		3
170'	3		500'	600'	700'		6	6	6		6	6	6		9		3
180'	3		550'	650'	750'		6	6	6		6	6	6		9		3
190'	3		550'	650'	800'		6	6	6		6	6	6		9		3

Items shown above, plus one 65TG, one 15/16X16PP, one APL4HA, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

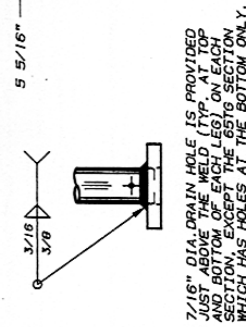
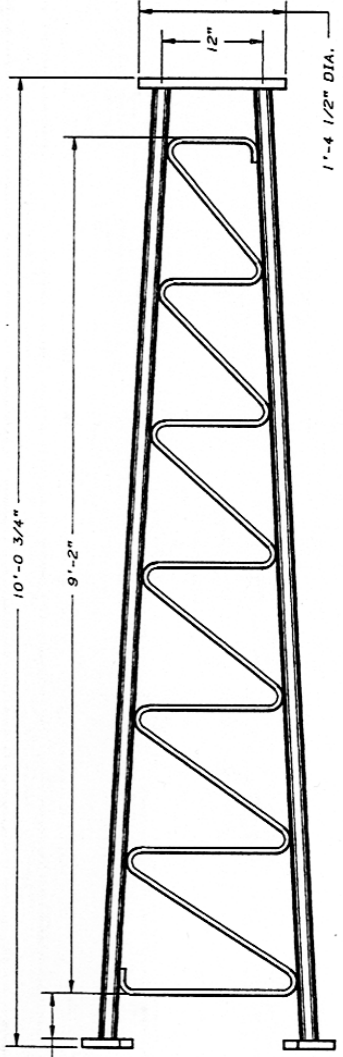
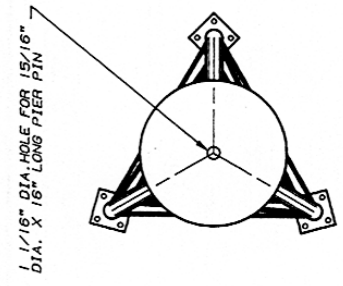
One or two anchor grounding (AGK1G) kits, along with appropriate ground clamps, and two base grounding (BGKE1G) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

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

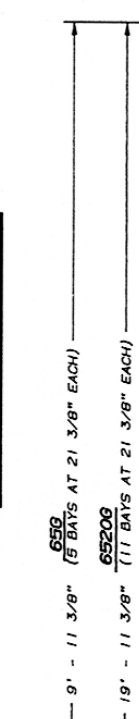


65G

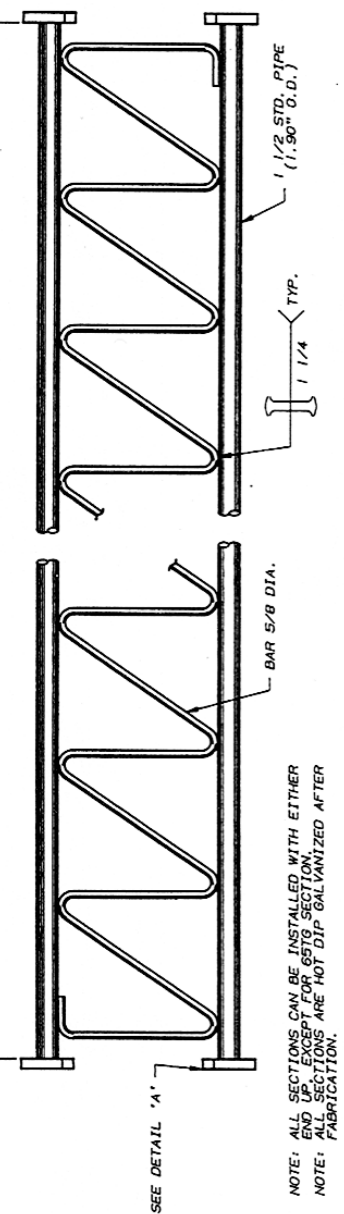
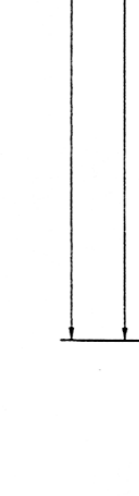
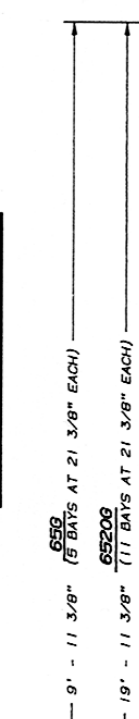


DETAIL 'A'

**P/N 651G SECTION**



**P/N 6520G SECTION**



NOTE: ALL SECTIONS CAN BE INSTALLED WITH EITHER  
 NOTE: ALL SECTIONS ARE NOT DIP GALVANIZED AFTER FABRICATION.

(4) 5/8" DIA. X 2 1/2" I.G. FLANGE BOLTS (A-325 QUALITY) (12 TOTAL REQUIRED PER SECTION - EXCEPT FOR 651G SECTION) (PAL NUTS ARE PROVIDED W/ ALL BOLTS)

SEE DETAIL 'A'

**P/N 650 SECTION AND P/N 6520G SECTION**

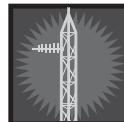
SEC. >>	650 TOWER SECTION PROPERTIES		
	LEGS	BRACES	SECTION
SIZE	PIPE 1.50 STD.	BAR 5/8 DIA.	N/A
F <sub>y</sub>	50.0	36.0	N/A
A	0.799	0.3068	2.40
S	0.326	0.0240	15.71
I	0.310	0.0075	234.9
r	0.623	0.1563	9.90
L	21.4	30.9	VARIES
K	1.0	0.70	1.0
KL/r	34.3	138.4	VARIES
C	28.3	N/A	N/A
T	N/A	N/A	N/A
M	N/A	N/A	49.5
W	2.72	1.044	14.50
W <sub>6</sub>	164.0	126.0	290.0

**NOMENCLATURE**

- A = CROSS SECTIONAL AREA (SQUARE INCHES)
- C = COMPRESSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- I = MOMENT OF INERTIA ABOUT CENTROIDAL AXIS (INCHES<sup>4</sup>)
- r = RADIUS OF GYRATION (INCHES)
- L = UNBRACED LENGTH (INCHES) (DIMENSIONLESS)
- M = MOMENT CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (FT.-KIPS)
- N/A = NOT APPLICABLE
- S = ELASTIC SECTION MODULUS (INCHES<sup>3</sup>)
- T = TENSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- W = WEIGHT PER FOOT (POUNDS)
- W<sub>6</sub> = WEIGHT PER SECTION (POUNDS)

NOTE: CAPACITIES SHOWN ARE BASED ON ANSI/AIA-222-E-1991

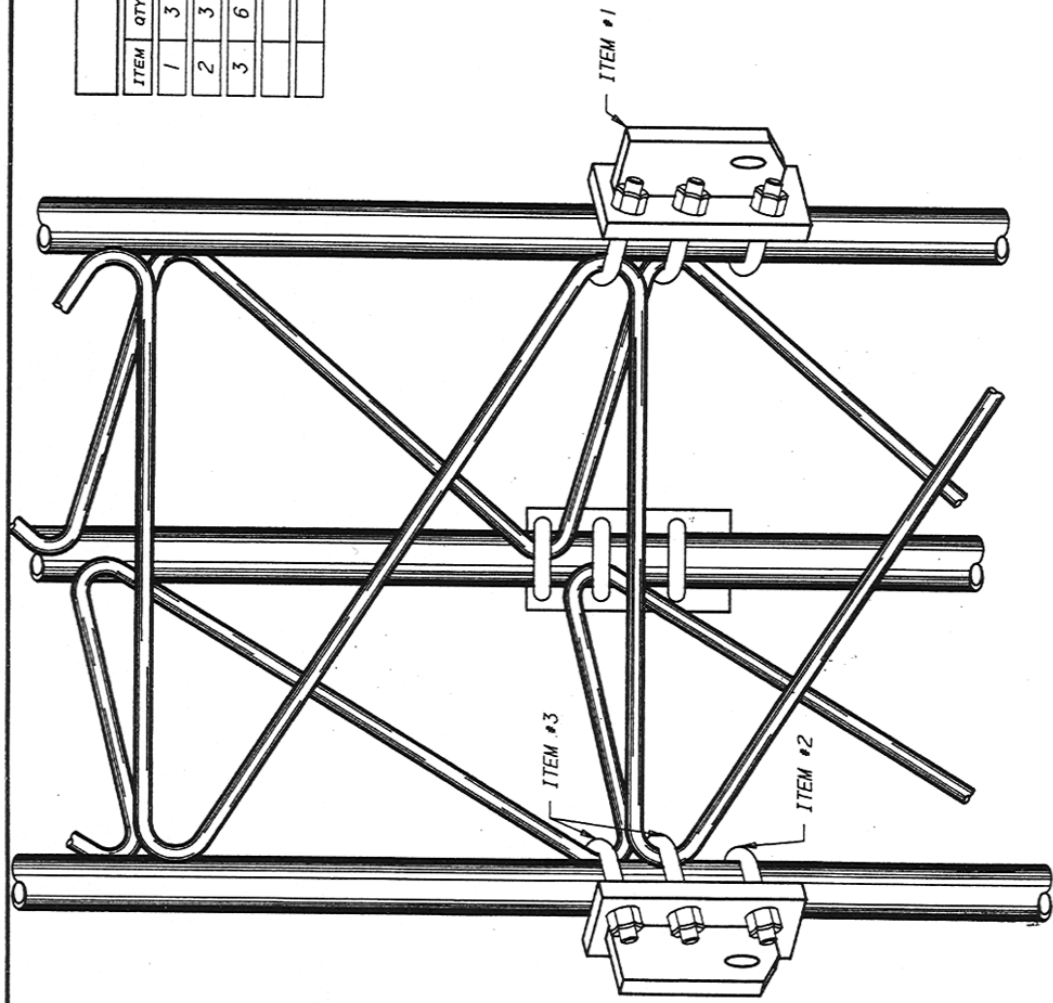
R14	REV'D EIA-222-D-1986 TO EIA-222-E-1991	9/10/91	RPB
R13	REDRAWN AND REVISED SPEC.	02/18/88	GPW
No. Revision Description			
<b>UNR-Rohn</b>			
<b>650 SECTION ASSEMBLY</b>			
Unless otherwise specified, dimensions are given in inches			
Scale	NONE	Drawn by	GPW
Checked by	WJW	Date	02/18/88
Approved by	Engineering	Date	2-24-88
Approved by	Production	Date	2-11-88
Approved by	Sales	Date	1-25-88
Drawing Number			C630665 R14



ASSEMBLY P/N 6A65GD BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	3	B65GD	GUY BRACKET	CB70709
2	3	JR810A	1/2" U-BOLT ASSY	B651028
3	6	JR655A	1/2" U-BOLT ASSY	B710909

**GENERAL NOTES**

1. 2 UPPERMOST U-BOLTS MUST INTERCONNECT WITH ZIG-ZAG BRACES AS SHOWN.
  2. BRACKET DESIGNED FOR A MAXIMUM 7.5 \* KIPS VERTICAL DOWNPULL.
  3. MAXIMUM THIMBLE SIZE = 9/16" HYI
- \* MAXIMUM DOWNPULL CAPACITY BASED ON ANSI/EIA-222-E-1991.



No.	Revision Description	Date	By
R2	REV. E WAS REV. D	8-27-92	JDM/PL
R1	ADDED CAPACITY NOTE	3-27-91	CSR/PL

**UNR-Rohn**

Title  
**GUY BRACKET ASSEMBLY FOR 65G TOWERS**

Scale NONE  
 Unless otherwise specified, dimensions are given in inches.  
 Tolerances Decimals Fractions Angles  
 Drawn by WFF/MDU 9/22/87 Date  
 Checked by GAW 02-26-88 Date  
 Approved by Engineering Date  
 Approved by Production Date  
 File Number

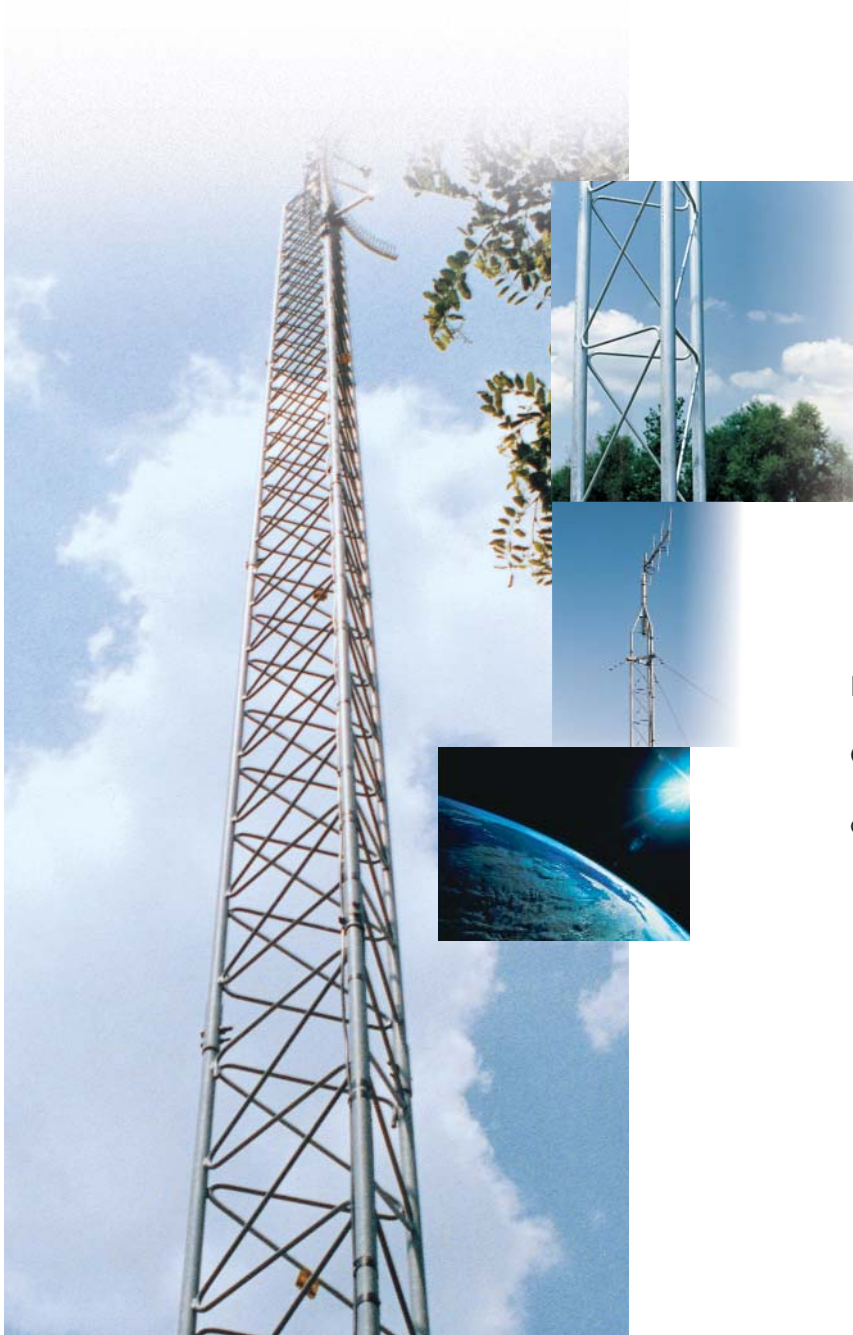
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 Approved by Sales Date  
 Drawing Number  
**BB70900R 2**

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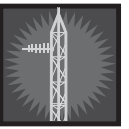
# G SERIES ACCESSORIES



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY



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## **DBS TOWER MOUNT**

### **For Today's New Generation of Reception Dishes**

Supports most all major DBS antenna brands.

#### Specifications

<b>Model</b>	<b>Mast Specifications</b>
KY2068A15	1.5" O.D. Mast
KY206816	1.66" O.D. Mast
KY2068A2	2" STD I.D. Mast 2 3/8" O.D. Mast
DDM150	1.5" O.D. Mast
DDM166	1.66" O.D. Mast
DDM238	2" STD. I.D. Mast 2 3/8" O.D. Mast

The DBS Tower Mount for 25G towers is one of the latest additions to the complete line of ROHN antenna support products. Other receive antenna mounts include gable end mounts, tripod mounts, telescoping masts, towers wall brackets, and non-penetrating roof mounts.

The mount goes together quickly, with a minimum of bolted connections. The angle steel cross members connect directly to the tower legs with easy-to-use u-bolts.

This mount is either available in a hot dip galvanized or pre-galvanized finish.

Disassembled, the lightweight **UPS Shippable** mount stores in very small spaces with the angle members nested.

Varied mast diameters are available to provide for mounting most current DBS dishes.



ASSEMBLY P/N GA656D BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	3	B656D	GUY BRACKET	C870709
2	3	JR810A	1/2" U-BOLT ASSY	B651028
3	6	JR655A	1/2" U-BOLT ASSY	B710909

**GENERAL NOTES**

1. 2. UPPERMOST U-BOLTS MUST INTERCONNECT WITH ZIG-ZAG BRACES AS SHOWN.
2. BRACKET DESIGNED FOR A MAXIMUM 7.5 \*
3. KIPS VERTICAL DOWNPULL.
3. MAXIMUM THIMBLE SIZE = 9/16" Hvy

\* MAXIMUM DOWNPULL CAPACITY BASED ON ANS1/EIA-222-E-1991.

R2	REV. E WAS REV.D	8-27-92	JDM/SP
RI	ADDED CAPACITY NOTE	3-27-91	CSR/PC
No. ▲	Revision Description	▲ Date	▲ By

**UNR-Rohn**

**TITLE**  
GUY BRACKET ASSEMBLY FOR 656 TOWERS

Scale	NONE	Unless otherwise specified, dimensions are given in inches.		
Drawn by	WRF/NDU	9/22/87	Tolerances	Fractions
Checked by	GWJ	02-26-88	Decimals	Angles
Approved by Engineering	RAM	2-26-88	Material	Finish
Approved by Production				Weight

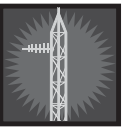
  

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File Number

Approved by Sales *WRF* Date 2-26-88 Drawing Number **BB70900R 2**

BRUNING 41503



### BILL OF MATERIAL

ITEM	QTY	PART NO	DESCRIPTION	DWG NO
1	1	SEE ASSY P/N	MOUNTING PIPE OR TUBE	N/A
2	2	FY206	MOUNTING ANGLE 1-1/2 X 1-1/2 X 12GA.	A950180
3	2	D114	SADDLE CLAMP	N/A
4	4	FJR42	U-BOLT	N/A
5	4	S180771	5/16 X 2-1/2 BOLT	N/A

ASSY P/N: DDM150 (TUBE 1-1/2")  
(TUBE 1.5" O.D. X 3' LG.)

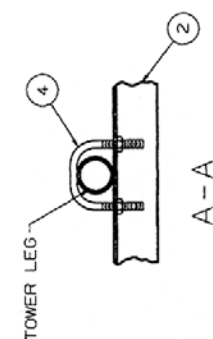
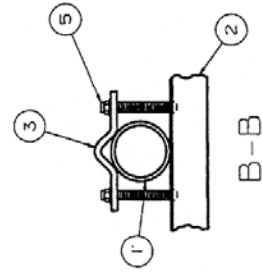
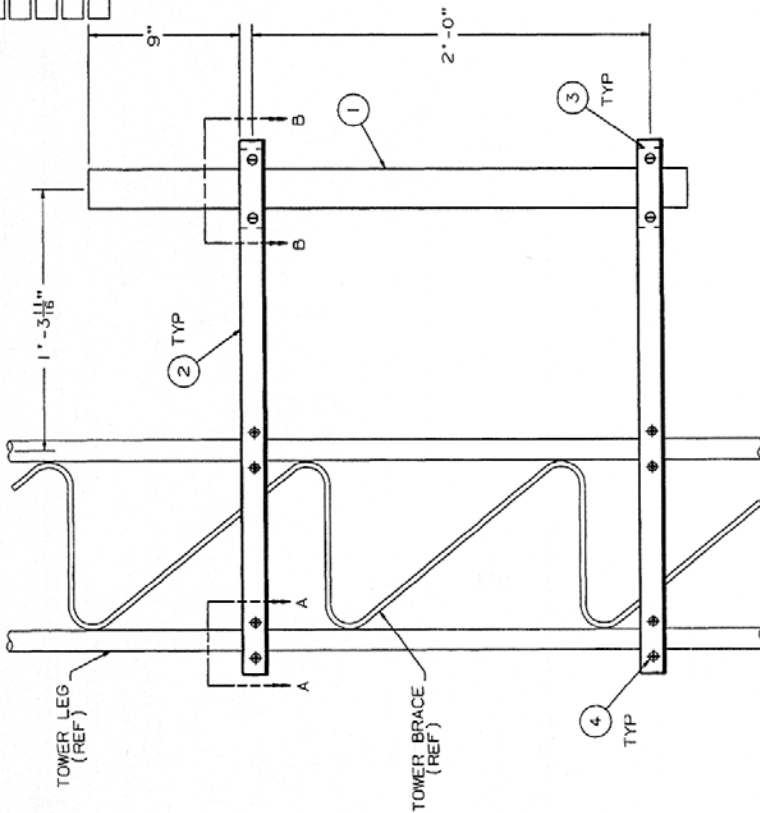
ASSY P/N: DDM166 (PIPE 1-1/4")  
(PIPE 1.66" O.D. X 3' LG.)

ASSY P/N: DOM238 (PIPE 2")  
(PIPE 2.375" O.D. X 3' LG.)

NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY.

NOTE: MOUNTING ANGLE MUST BE MOUNTED AS CLOSE TO LEG/BRACE INTERSECTION AS POSSIBLE.

TOTAL TOWER LOAD MUST NOT EXCEED CAPACITY OF 25G TOWER.



**UNR-ROHN**  
Division of UNR, Inc.

**Title**  
DBS MODEL -  
TOWER DISH MOUNT

**Scale**  
NONE

**Drawn by**  
7-18-95

**Checked by**  
8-11-95

**Approved by Engineering**  
Date: 8-11-95

**Approved by Production**  
Date: 8-11-95

**Approved by Sales**  
Date: 8-22-95

**Drawing Number**  
EF4039SM

**Drawing Type**: CATALOG

**Drawing No**: C950130R1

Unless otherwise specified, dimensions are given in inches. Tolerances are as noted.

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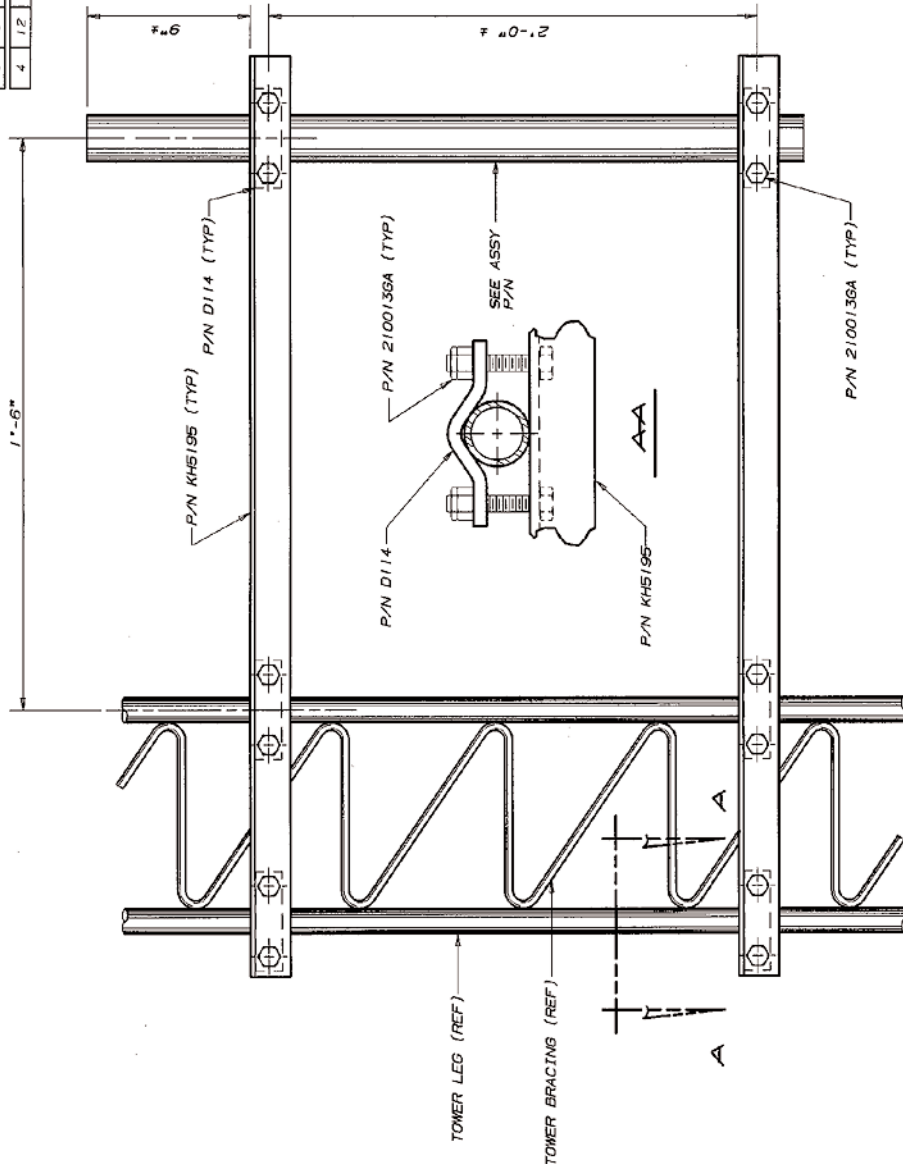
# G Series Accessories

BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	1	SEE ASSY P/N	MOUNTING PIPE OR TUBE	N/A
2	2	KH5195	MOUNTING ANGLE L. 2X3/16	D951772
3	6	D114	SADDLE CLAMP	B770214
4	12	2100136A	3/8x4 BOLT ASSY	N/A

ASSY P/N: KY2068A2 (2STD PIPE)  
 (PIPE 2STD X 3' LG.)  
 (P/N KH75)

ASSY P/N: KY2068A15 (TUBE 1.5"Ø)  
 (TUBE 1.5"Ø X 3' LG.) (0.065" WALL)  
 (P/N KY2068) (MT. 3.2x)

ASSY P/N: KY2068A16 (TUBE 1.66"Ø)  
 (TUBE 1.66"Ø X 3' LG.) (0.065" WALL)  
 (P/N KY2068) (MT. 3.2x)



**NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE LOADING OF 100 LBS LATERAL THRUST TOTAL TOWER LOAD MUST NOT EXCEED CAPACITY OF 256 TOWER.**

**NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY**

**NOTE: MOUNTING ANGLE MUST BE MOUNTED AS CLOSE TO LEG/BRACE INTERSECTION AS POSSIBLE.**

No. **▲** Revision Description  
 1. THIS DRAWING IS TO BE USED ONLY FOR ASSEMBLY OF THIS PART WITHOUT WRITTEN CONSENT.

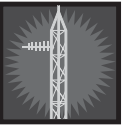
Date: **▲** Rev. By: **▲** Chd. D. A. Appl. D.

ROHN

256 DISH MOUNT ASSY

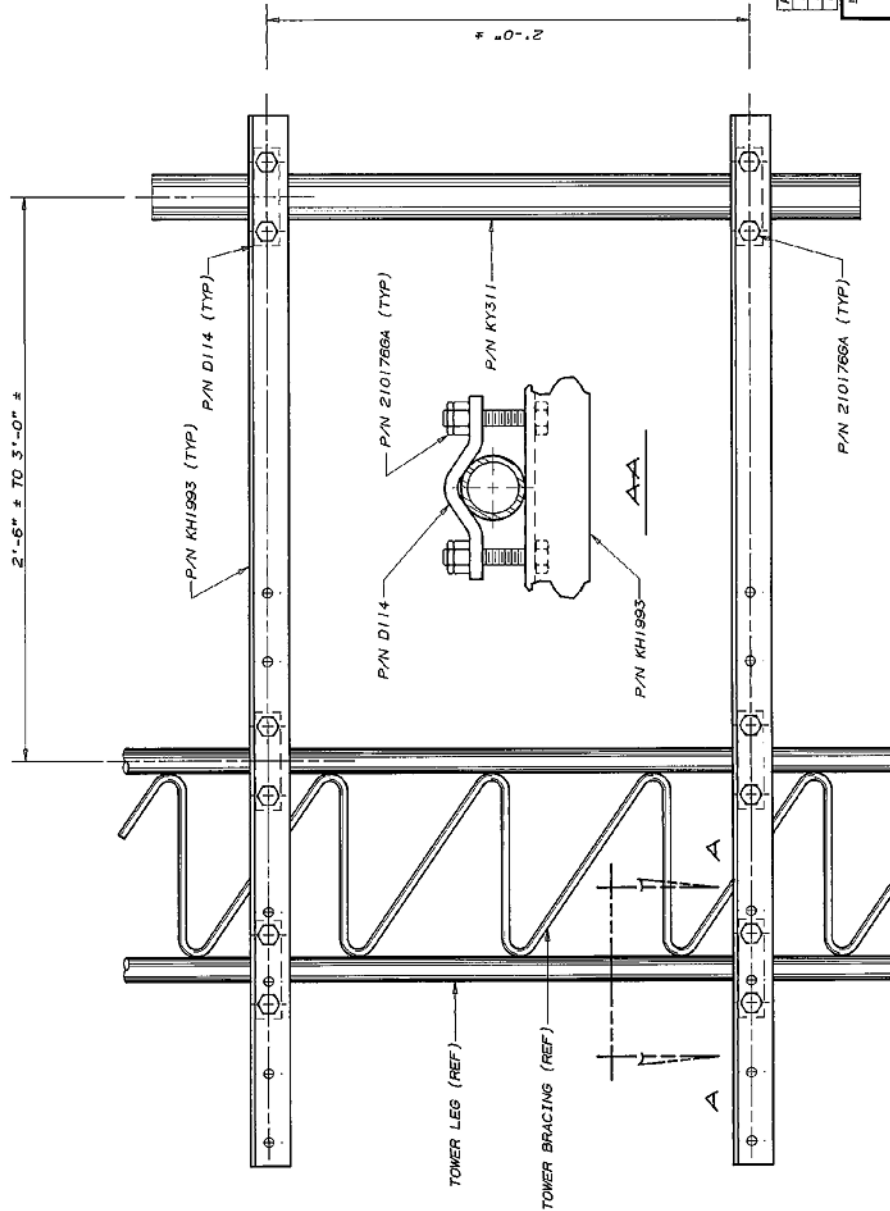
Series	NO	By	Date	Title
JDM	5-15-95			
Checked:	WMM	5-20-95		
App. Eng.:	WMM	5-20-95		
App. Supt.:	WMM	5-20-95		

DRAWING NO.: C950981



**ASSEMBLY P/N SA253UA BILL OF MATERIAL**

ITEM QTY	PART NO.	DESCRIPTION	DWG NO.
1	KY311	MOUNTING TUBE 2-1/4x14 64x3" LG	C750060
2	KH1993	MOUNTING ANGLE 2x1/8x4.95" LG	C830232
3	D114	SADDLE CLAMP	B770214
4	2101766A	3/8x2-1/2 BOLT ASSY	N/A



**NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 90 LBS LATERAL THRUST**

**NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.**

**NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY**

REV	ADDED SIDE ARM NOTE	DATE
1	ASSEMBLY P/N SA253UA	6/11/90 WFB
2	REVISED TO ADD SIDE ARM	10/20/97 RMC
3	REVISED TO ADD SIDE ARM	1/23/98 WFB
4	REVISED TO ADD SIDE ARM	1/17/98 WFB

**ROHN®**

**SIDE ARM ASSY 2.5'-3.0' UNIVERSAL FOR 25G, 45G, 55G, 65G, J & C TOWERS.**  
 Unless otherwise specified, dimensions are given in inches.

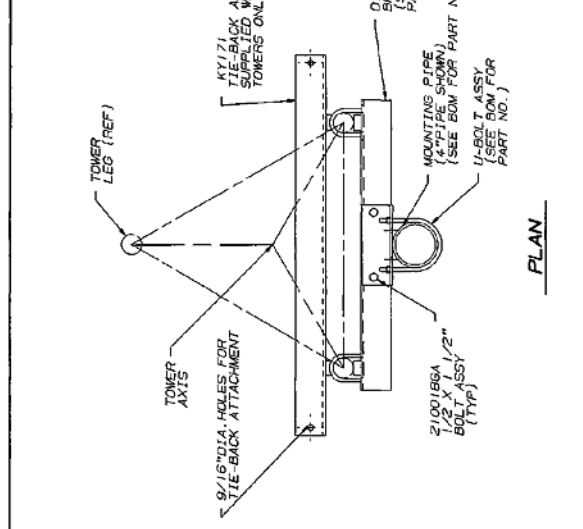
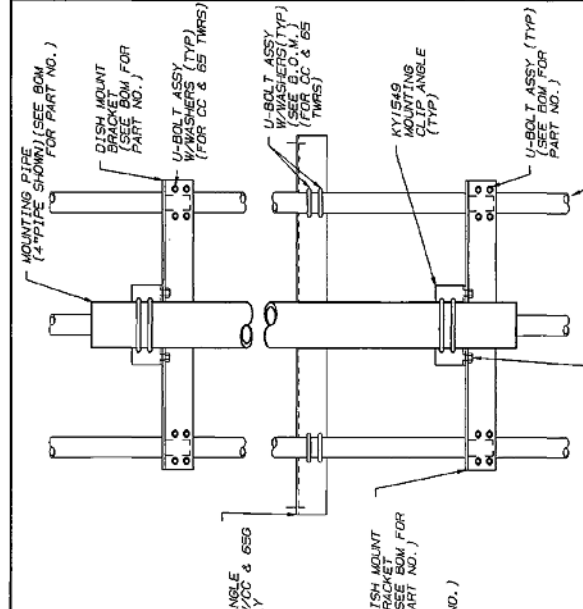
Drawn by: AWG Date: 12/17/92 Material: Aluminum Finish: None Weight:       
 Checked by:      Date:      Material:      Finish:      Weight:       
 Approved by Engineering:      Date: 12/22/92  
 Approved by Production:      Date: 12/22/92  
 Approved by Sales:      Date:      Drawing Number: CB21662R4

17503 R911





# G Series Accessories



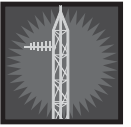
BILL OF MATERIALS		DWG NO.		
ASSY NO.	PART NO.	QTY		
DM2562	KY1550	2	DISH MOUNT BRACKET	B681437
	KH275	1	MOUNTING PIPE 2" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR61A	4	U-BOLT ASSY 3/8"	B651028
DM254	KY1550	2	DISH MOUNT BRACKET	B681437
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028
DM4562	KY1550	2	DISH MOUNT BRACKET	B681437
	KH275	1	MOUNTING PIPE 2" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR61A	4	U-BOLT ASSY 3/8"	B651028
DM454	KY1550	2	DISH MOUNT BRACKET	B681437
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028
DM5562	KY1550	2	DISH MOUNT BRACKET	B681437
	KH275	1	MOUNTING PIPE 2" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR61A	4	U-BOLT ASSY 3/8"	B651028
DM554	KY1550	2	DISH MOUNT BRACKET	B681437
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028
DMJ2	KY1552	2	DISH MOUNT BRACKET	B681441
	KH275	1	MOUNTING PIPE 2" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR61A	4	U-BOLT ASSY 3/8"	B651028
DMJ4	KY1552	2	DISH MOUNT BRACKET	B681441
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028

ASSY NO.	PART NO.	QTY	DESCRIPTION	DWG NO.
DM654	KY1555	2	DISH MOUNT BRACKET	B681440
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR63A	4	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028
	2500066	16	FLAT WASHERS 3/8"	N/A
	KY1555	2	DISH MOUNT BRACKET	B681440
	KY171	1	TIE-BACK ANGLE	B760906
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
DM654TB	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR60A	12	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028
	2500066	24	FLAT WASHERS 3/8"	N/A
	KY1555	2	DISH MOUNT BRACKET	B681440
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR60A	8	U-BOLT ASSY 3/8"	B651028
DM654TB	KY1552	2	DISH MOUNT BRACKET	B681441
	KH275	1	MOUNTING PIPE 2" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR61A	4	U-BOLT ASSY 3/8"	B651028
DM654TB	KY1552	2	DISH MOUNT BRACKET	B681441
	KH279	1	MOUNTING PIPE 4" STD X 3'	B770160
	KY1549	2	MOUNTING CLIP ANGLE	B681436
	2100186A	4	BOLT ASSY 1/2 X 1 1/2"	C770404
	JR66A	8	U-BOLT ASSY 3/8"	B651028
	JR63A	4	U-BOLT ASSY 3/8"	B651028

GENERAL NOTES	
1.	DISH MOUNT SUPPLIED WITH 4" STD (4 1/2" O.D.) OR 2" STD (2 3/8" O.D.) MOUNTING PIPE. (CC & 65G TOWER SUPPORTED WITH 4" STD MOUNTING PIPE ONLY.)
2.	DISH MOUNT BRACKETS AND TIE-BACK ANGLE MAY BE MOUNTED ON FACES OTHER THAN SHOWN PER ORIENTATION REQUIREMENTS.
3.	DISH TIE-BACK STRUT (BY OTHERS) MUST BE AS CLOSE TO PERPENDICULAR AS POSSIBLE TO DISH FACE.
4.	FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
5.	FABRICATION DRAWINGS, IF REFERENCED, ARE FOR SHOP USE ONLY.
6.	PAL NUTS ARE PROVIDED FOR ALL U-BOLTS /AND BOLTS
7.	MOUNTING BRACKETS MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.

REV. TO NO. REDRAWN & REV. 65 LEG U-BOLTS	7-15-98	RWB	175
No. Revision Description			
Date	By	Rev	TS
MOI 10-13-76	MOI	10-15-76	
MOI 10-15-76	MOI	10-15-76	
CW 10-15-76	CW	10-15-76	
App. Engr.	EN	10-28-76	
App. Svr.	EN	10-28-76	
App. File:	EN	10-28-76	
DWG NO.:	C760796 R5		

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<b>ROHN</b>	
DISH MOUNT ASSEMBLY FOR MODEL NO'S 25.45.55, J.65 & C TOWERS	



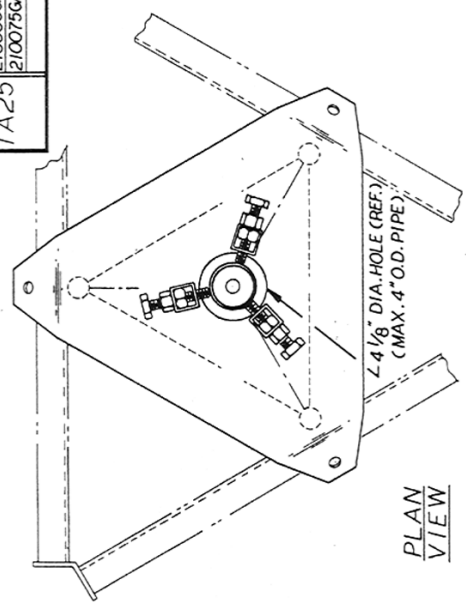
**TORQUE ARM BILL OF MATERIALS**

ASSY NO.	PART NO.	QUAN	DESCRIPTION	DRAWING NO.
TA25	KC90	1	TORQUE ARM	B760795
	2100036A	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	21000796A	3	1/4 X 2" BOLT ASSEMBLY	C770404

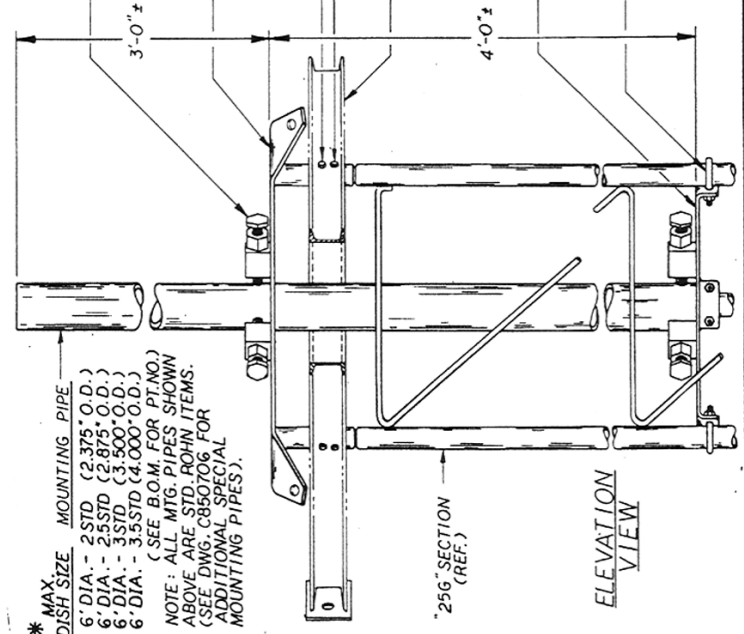
**DISH MOUNT BILL OF MATERIALS**

ASSY NO.	PART NO.	QUAN	DESCRIPTION	DRAWING NO.	
25TDM253KD	KH1617	1	MTG. PIPE 2" STD. X 7'-0" LG.	B770160	
	KY1180	1	TOP MOUNTING PLATE	C850312	
	KY1174	1	BOTTOM MOUNTING PLATE	C850313	
	JR66A	3	U-BOLT ASSEMBLY	B651028	
	210192G	6	5/8 X 3 1/2" BOLT (FULLY THREADED)	C770404	
	2200376A	3	5/16 X 1-1/2" BOLT ASSEMBLY	C770404	
	230018	12	5/8" H.VY. HEX. NUT	N/A	
	2200296A	3	1/4 X 1-1/2" BOLT ASSEMBLY	C770404	
	25TDM253KD	KH2582	1	MTG. PIPE 2-1/2" STD. X 7'-0" LG.	B770160
		KY1180	1	TOP MOUNTING PLATE	C850312
		KY1174	1	BOTTOM MOUNTING PLATE	C850313
		JR66A	3	U-BOLT ASSEMBLY	B651028
210192G		6	5/8 X 3 1/2" BOLT (FULLY THREADED)	C770404	
2200376A		3	5/16 X 1-1/2" BOLT ASSEMBLY	C770404	
230018		12	5/8" H.VY. HEX. NUT	N/A	
2200296A		3	1/4 X 1-1/2" BOLT ASSEMBLY	C770404	
25TDM353KD		KH2583	1	MTG. PIPE 3" STD. X 7'-0" LG.	B770160
		KY1180	1	TOP MOUNTING PLATE	C850312
		KY1174	1	BOTTOM MOUNTING PLATE	C850313
		JR66A	3	U-BOLT ASSEMBLY	B651028
	210192G	6	5/8 X 3 1/2" BOLT (FULLY THREADED)	C770404	
	2200376A	3	5/16 X 1-1/2" BOLT ASSEMBLY	C770404	
	230018	12	5/8" H.VY. HEX. NUT	N/A	
	2200296A	3	1/4 X 1-1/2" BOLT ASSEMBLY	C770404	
	25TDM353KD	KH2584	1	MTG. PIPE 3-1/2" STD. X 7'-0" LG.	B770160
		KY1180	1	TOP MOUNTING PLATE	C850312
		KY1174	1	BOTTOM MOUNTING PLATE	C850313
		JR66A	3	U-BOLT ASSEMBLY	B651028
210192G		6	5/8 X 3 1/2" BOLT (FULLY THREADED)	C770404	
2200376A		3	5/16 X 1-1/2" BOLT ASSEMBLY	C770404	
230018		12	5/8" H.VY. HEX. NUT	N/A	
2200296A		3	1/4 X 1-1/2" BOLT ASSEMBLY	C770404	
25TDM353KD		KY1180	1	TOP MOUNTING PLATE	C850312
		KY1174	1	BOTTOM MOUNTING PLATE	C850313
		JR66A	3	U-BOLT ASSEMBLY	B651028
		210192G	6	5/8 X 3 1/2" BOLT (FULLY THREADED)	C770404
	2200376A	3	5/16 X 1-1/2" BOLT ASSEMBLY	C770404	
	230018	12	5/8" H.VY. HEX. NUT	N/A	
	2200296A	3	1/4 X 1-1/2" BOLT ASSEMBLY	C770404	

**DESIGN NOTE**  
THESE TOP DISH MOUNT ASSEMBLIES ARE DESIGNED TO BE MOUNTED ON 25G SINGLE BRACED SECTIONS ONLY.



PLAN VIEW



ELEVATION VIEW

**\* MAX. DISH SIZE MOUNTING PIPE**  
6" DIA. - 2 STD (2.375" O.D.)  
6" DIA. - 2 STD (2.875" O.D.)  
6" DIA. - 3 STD (3.500" O.D.)  
6" DIA. - 3 STD (4.000" O.D.)  
(SEE B.O.M. FOR PT. NO.)  
NOTE: ALL MTG. PIPES SHOWN ABOVE ARE STD. ROHN ITEMS. (SEE DWG. C850706 FOR ADDITIONAL SPECIAL MOUNTING PIPES).

**GENERAL NOTES**

- THE TOP DISH MOUNTS AND THE TORQUE ARMS ARE SEPARATE UNITS, AND MAY BE USED IN CONJUNCTION WITH EACH OTHER, AS SHOWN, OR AS SEPARATE UNITS. THE TORQUE ARM MAY BE INSTALLED AT THE LEVEL OF ANY TOWER JOINT, WHEN THE TORQUE ARM IS INSTALLED AS SHOWN, THE GUYS ARE TO BE ATTACHED TO THE TORQUE ARM ONLY. ALL FABRICATION DRAWINGS REFERENCED. ARE FOR SHOP USE ONLY.
- PAL NUTS ARE PROVIDED WITH ALL U-BOLT AND BOLT ASSEMBLIES.

**\* DESIGN NOTE**  
THIS ANTENNA MOUNT IS DESIGNED IN ACCORDANCE WITH A.N.S.I. A58.1, MIN. DESIGN LOADS FOR BUILDING, & OTHER STRUCTURES. EXPOSURE B TO M.P.H., FOR A MAX. 6" DIA. SOLID, GRID OR MESH DISH (MAX. PROJ. AREA = 34 SQ. FT.)

- 5/8 X 3 1/2" BOLT (PT. NO. 210192G) W/ 2-NUTS (PT. NO. 230018) (TYP.) PROJECTION ON ALL CLAMP BOLTS MUST BE EQUAL TO PROVIDE BEST POSSIBLE CLAMPING POSITION.
- TOP MOUNTING PLATE (PT. NO. KY1180)
- 1/4 X 1-1/2" BOLT ASSY (TYP.) (PT. NO. 2200296A) (DISH MNT. ONLY)
- 5/16 X 1-1/2" BOLT ASSY (TYP.) (PT. NO. 2200376A) (DISH MNT. ONLY)
- TORQUE ARM ASSEMBLY (IF REQUIRED)
- BOTTOM MOUNTING PLATE (PT. NO. KY1174)
- U-BOLT ASSEMBLY (PT. NO. JR66A) (TYP.)

\*\* LONGER BOLTS ARE SUPPLIED WITH TORQUE ARM.

**RI ADDED MTG PIPE NOTE**

No.          Revision Description          Date          By         

**UNR-Rohn**  
ROHN MOUNT, INC.  
MOUNT DISH ASSY TOP 25G KD  
THE TOP DISH MOUNT & TORQUE ARM ASSY FOR TOWER MODEL NO. 25G

Scale NONE  
Tolerances Unless otherwise specified, dimensions are given in inches.  
Drwn by GW 01-14-85  
Checked by WDR 1-18-85  
Approved by Engineering Rom 3-C-85  
Approved by Production  
Date 3-13-85  
Drawing Number C850314 RI



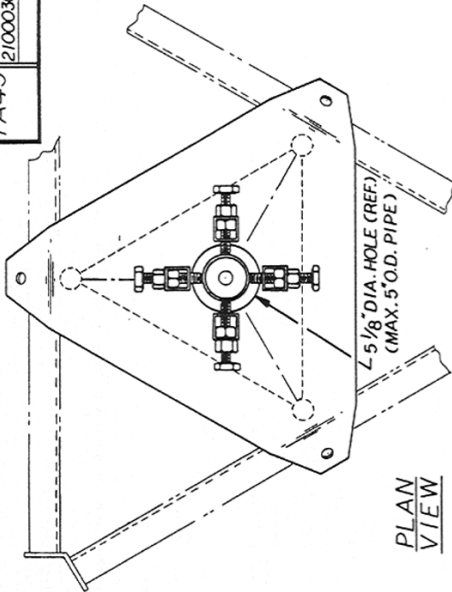


**TORQUE ARM BILL OF MATERIALS**

ASSY NO.	PART NO.	QUAN	DESCRIPTION	DRAWING NO.
TA45	TA45	1	TORQUE ARM	B760796
	210016GA	3 (each)	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
	210003GA	3 (each)	5/16 X 2-3/8" BOLT ASSEMBLY	C770404

**DESIGN NOTE**

THESE TOP DISH MOUNT ASSEMBLIES ARE DESIGNED TO BE MOUNTED ON 45G SINGLE BRACED SECTIONS ONLY.



PLAN VIEW

**GENERAL NOTES**

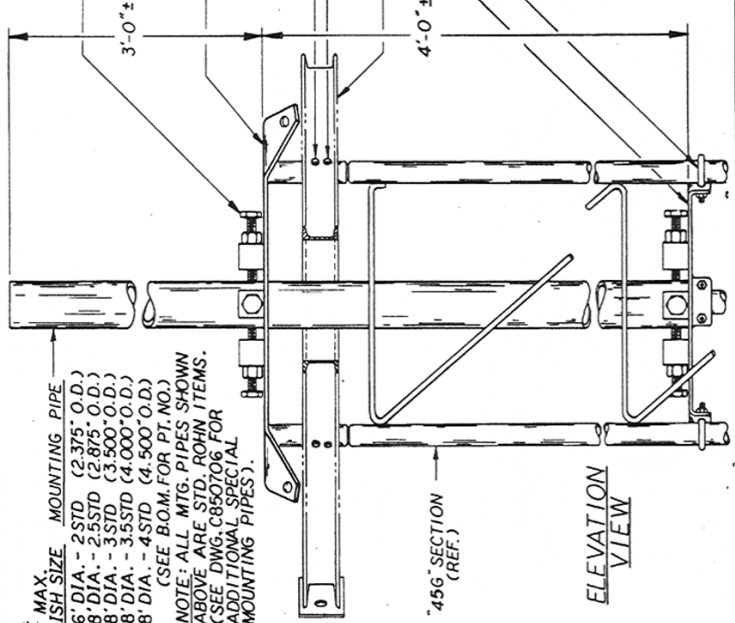
1. THE TOP DISH MOUNTS AND THE TORQUE ARMS ARE SEPARATE UNITS, AND MAY BE USED IN CONJUNCTION WITH EACH OTHER, AS SHOWN, OR AS SEPARATE UNITS. THE TORQUE ARM MAY BE INSTALLED AT THE LEVEL OF ANY TOWER JOINT. WHEN THE TORQUE ARM IS INSTALLED AS SHOWN, THE GUYS ARE TO BE ATTACHED TO THE TORQUE ARM ONLY. ALL FABRICATION DRAWINGS REFERENCED, ARE FOR SHOP USE ONLY.
2. PAL NUTS, ARE PROVIDED WITH ALL U-BOLT AND BOLT ASSEMBLIES.
3. AND BOLT ASSEMBLIES.

**\* DESIGN NOTE**

THIS ANTENNA MOUNT IS DESIGNED IN ACCORDANCE WITH A N.S.I. 458.1 "MIN. DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES - EXPOSURE B TO MPH, FOR A MAX. 8' DIA. SOLID, GRID OR MESH DISH (MAX. PROJ. AREA = 60 SQ. FT.)

- \* MAX. DISH SIZE, MOUNTING PIPE
  - 6' DIA. - 2 STD (2.375" O.D.)
  - 8' DIA. - 2.5 STD (2.875" O.D.)
  - 8' DIA. - 3 STD (3.500" O.D.)
  - 8' DIA. - 3.5 STD (4.000" O.D.)
  - 8' DIA. - 4 STD (4.500" O.D.)
  - (SEE B.O.M. FOR PT. NO.)
- NOTE: ALL MTG. PIPES SHOWN ABOVE ARE STD. ROHN ITEMS. (SEE DWG. C850706 FOR ADDITIONAL SPECIAL MOUNTING PIPES).

- 5/8 X 4" BOLT (PT. NO. 220049G) W/ 2-NUTS (PT. NO. 230018) (TYP.) PROJECTION ON ALL CLAMP BOLT'S MUST BE EQUAL TO PROVIDE BEST POSSIBLE CLAMPING POSITION.
- TOP MOUNTING PLATE (PT. NO. KY1181)
- 7/16 X 2-1/2" BOLT ASSY (TYP.) (PT. NO. 210016GA)
- 5/16 X 2-3/8" BOLT ASSY (TYP.) (PT. NO. 210003GA)
- TORQUE ARM ASSEMBLY (IF REQUIRED)
- BOTTOM MOUNTING PLATE (PT. NO. KY1176)
- U-BOLT ASSEMBLY (PT. NO. JR66A) (TYP.)



ELEVATION VIEW

45TDMKD (MOUNT ONLY - LESS PIPE)

PT. NO.	QUAN	DESCRIPTION	DWG. NO.
KY1181	1	TOP MOUNTING PLATE	C850312
KY1176	1	BOTTOM MOUNTING PLATE	C850325
JR66A	3	U-BOLT ASSEMBLY	B651028
220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
230018	16	5/8" HVY. HEX. NUT	N/A
210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404

**DISH MOUNT BILL OF MATERIALS**

ASSY NO.	PART NO.	QUAN	DESCRIPTION	DRAWING NO.
45TDM253KD	KH1617	1	MTG. PIPE 2" STD. X 7'-0" LG.	B770160
	KY1181	1	TOP MOUNTING PLATE	C850312
	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028
	220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
	210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
	230018	16	5/8" HVY. HEX. NUT	N/A
	210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	KH2582	1	MTG. PIPE 2-1/2" STD. X 7'-0" LG.	B770160
	KY1181	1	TOP MOUNTING PLATE	C850312
45TDM2553KD	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028
	220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
	210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
	230018	16	5/8" HVY. HEX. NUT	N/A
	210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	KH2583	1	MTG. PIPE 3" STD. X 7'-0" LG.	B770160
	KY1181	1	TOP MOUNTING PLATE	C850312
	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028
45TDM353KD	220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
	210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
	230018	16	5/8" HVY. HEX. NUT	N/A
	210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	KH2584	1	MTG. PIPE 3-1/2" STD. X 7'-0" LG.	B770160
	KY1181	1	TOP MOUNTING PLATE	C850312
	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028
	220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
	210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
45TDM453KD	230018	16	5/8" HVY. HEX. NUT	N/A
	210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	KY1181	1	TOP MOUNTING PLATE	C850312
	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028
	220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
	210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
	230018	16	5/8" HVY. HEX. NUT	N/A
	210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	KY1181	1	TOP MOUNTING PLATE	C850312
45TDM453KD	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028
	220049G	8	5/8 X 4" BOLT (FULLY THREADED)	C770404
	210016GA	3	7/16 X 2-1/2" BOLT ASSEMBLY	C770404
	230018	16	5/8" HVY. HEX. NUT	N/A
	210003GA	3	5/16 X 2-3/8" BOLT ASSEMBLY	C770404
	KH2653	1	MTG. PIPE 4" STD. X 7'-0" LG.	B770160
	KY1181	1	TOP MOUNTING PLATE	C850312
	KY1176	1	BOTTOM MOUNTING PLATE	C850325
	JR66A	3	U-BOLT ASSEMBLY	B651028

**UNR-Rohn**  
Division of UNR, Inc.

**TOP DISH MOUNT & TORQUE ARM ASSY FOR TOWER MODEL NO. 45G**

Scale: NONE

Drawn by: GPW Date: 01-14-85

Checked by: JAC Date: 1-18-85

Approved by Engineering: J-C Date: 1-22-85

Approved by Production: J-C Date: 1-22-85

Approved by Sales: MJK Date: 3-13-85

Drawing Number: C850315 R1

Unless otherwise specified, dimensions are given in inches.

Fractions: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1

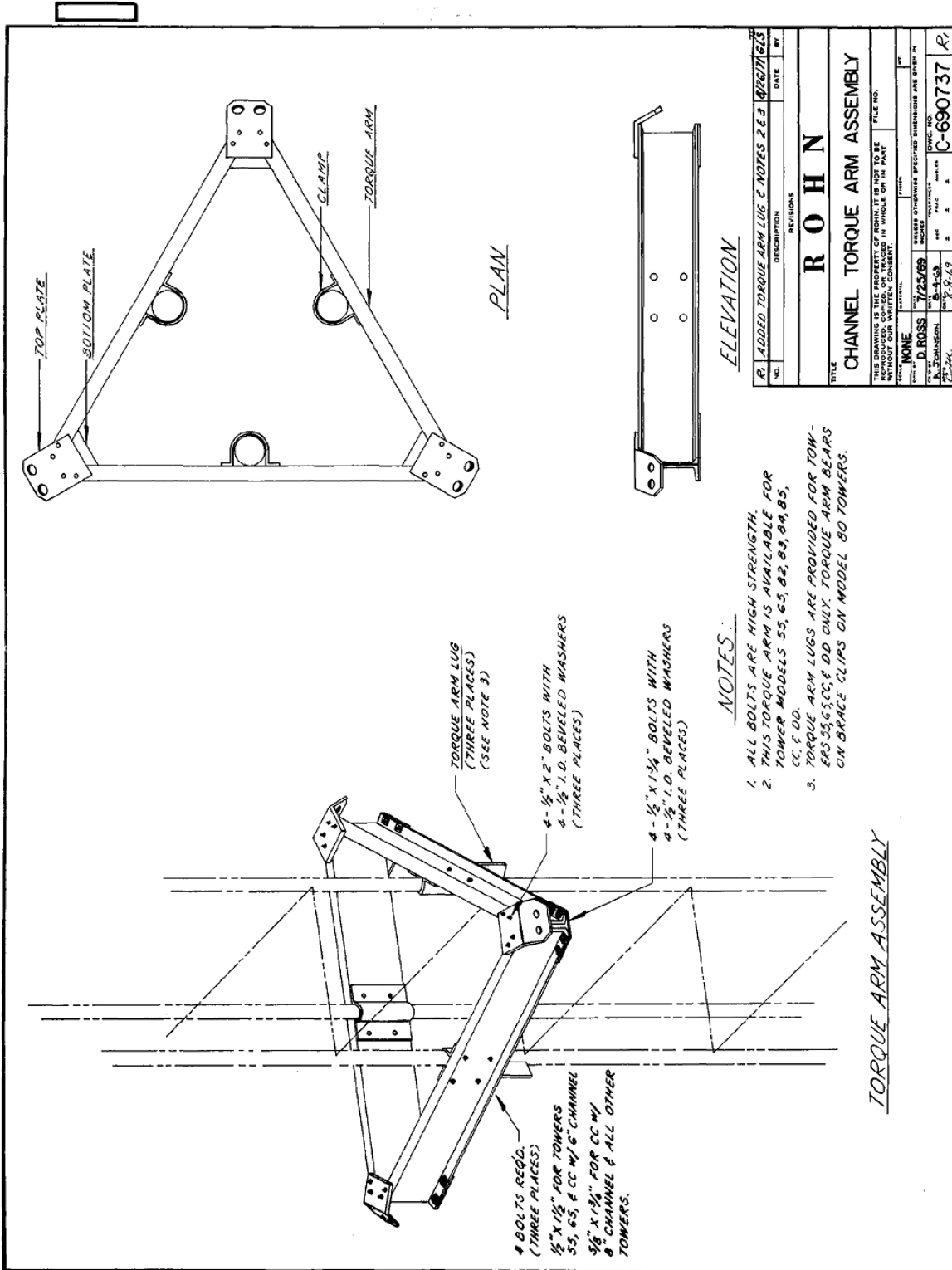
Angles: 15, 30, 45, 60, 75, 90, 105, 120, 135, 150, 165, 180

Weight: 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 120, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000

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Rev. Description: R1 ADDED 45TDM4S3KD & REV'D. BOLTS-24-85GPW





NO.	DESCRIPTION	DATE	BY
1	ADDED TORQUE ARM LUG & NOTES 2 & 3	10/27/65	
REVISIONS			
<b>R O H N</b>			
<b>CHANNEL TORQUE ARM ASSEMBLY</b>			
THIS DRAWING IS THE PROPERTY OF ROHN, IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT OUR WRITTEN CONSENT.			
DATE	BY	CHK'D	FILE NO.
10/25/69	D. ROSS		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES			
SCALE	AS SHOWN	DWG. NO.	
1" = 1'-0"		C-690737	
REV.	DATE	BY	FILE NO.
1	10/25/69	D. ROSS	C-690737

PRINTED IN U.S.A.







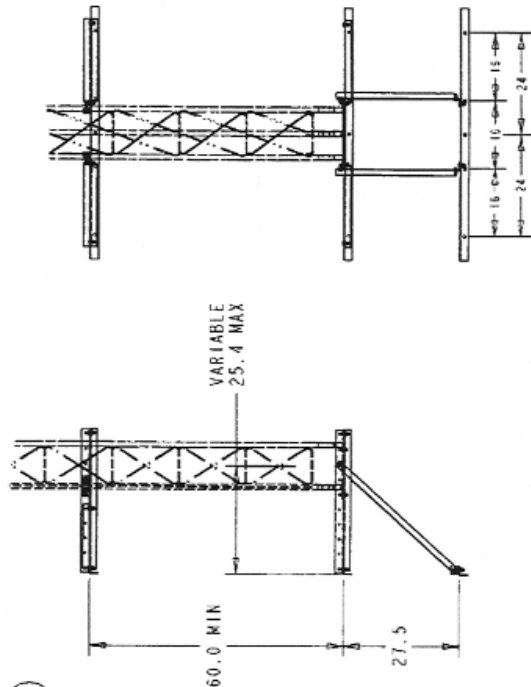
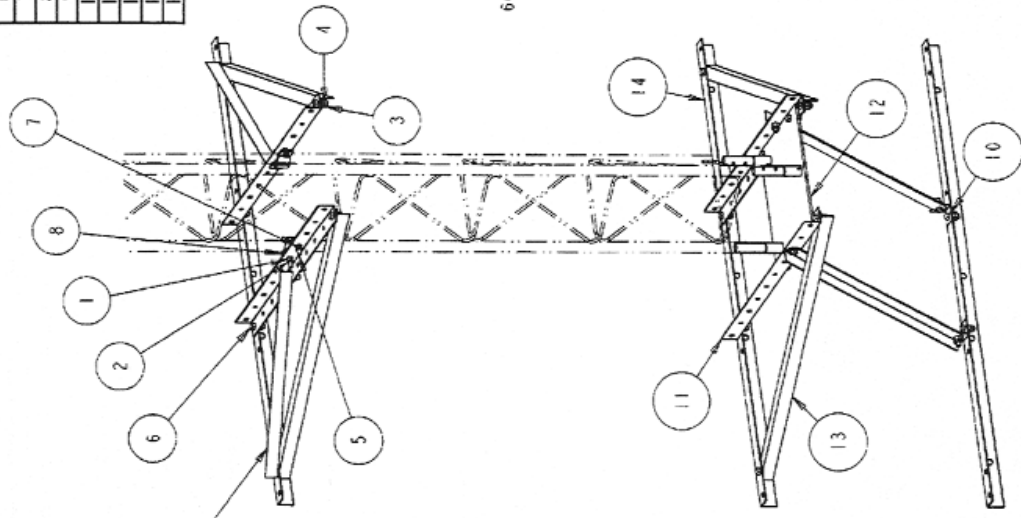


# G Series Accessories

BILL OF MATERIALS			DWG NO
ITEM QTY	PART NO	DESCRIPTION	
1	4	230005 NUT 3/8 HWY HEX HDG	PURCHASED
2	4	230007 NUT 3/8 PAL HDG	PURCHASED
3	24	230011 NUT 1/2 PAL HDG	PURCHASED
4	24	240085 NUT 1/2 HEX HDG	PURCHASED
5	4	2100096 BOLT 3/8 x 2 HGS 65 GDG	PURCHASED
6	24	2100176 BOLT 1/2 x 1-1/4 HSB A325 HDG	PURCHASED
7	5	2500086 WASHER 3/8 SAE FLAT HDG	PURCHASED
8	2	D114 CLAMP SADDLE 0.25" x 3.5" C 10 C HDG	B770214
9	2	HB20100 ANGLE 24.774" x 1.5" x 0.125"	A990167
10	2	KH6772 ANGLE 2" x 2" x 0.13"	A990130
11	4	KH6773 ANGLE HOUSE BRKT 33.5" x 2" x 0.13"	B990916
12	1	KH6775 BASE PLATE FOR 25G WALL MOUNT	C990120
13	6	KY1201 ANGLE HOUSE BRKT 38.25" x 1.5" x 0.13"	B850392
14	3	KY1205 ANGLE HOUSE BRKT 59.5" x 2" x 0.13"	C850525

### IMPORTANT INSTALLATION NOTES FOR THE 25G WALL MOUNT STRUCTURE

- IT IS THE PURCHASERS RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION AND BUILDING STRUCTURE ARE ABLE TO WITHSTAND ALL LOADS IMPOSED BY HIS ANTENNA SYSTEM AND MOUNT.
- ANTENNA INSTALLATION SHOULD BE GROUNDED BY THE INSTALLER TO MEET ALL APPLICABLE CODES.
- PAL NUTS ARE INCLUDED WITH THE BOLT ASSEMBLIES AND ARE TO BE INSTALLED WITH THE CONCAVE SURFACE AGAINST THE NUT.
- ALL PARTS ARE HOT DIP GALVANIZED AFTER FABRICATION.
- ALL SEALANT, IF REQUIRED, TO BE SUPPLIED BY OTHERS.
- LOCAL JOINTING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE AN ARCHITECT OR STRUCTURAL ENGINEER APPROVAL PRIOR TO INSTALLATION.
- INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS OR AFTER EVERY STORM FOR TIGHTNESS.
- REFER TO ROHN DRAWING #A871302R1 FOR ALLOWABLE ANTENNA AND TOWER HEIGHT.
- HOLES PROVIDED IN MOUNTING ANGLES ARE 11/16" DIAMETER FOR USE WITH HDG 5/8" THREADED ROD, PROVIDED BY OTHERS.



**ROHN**  
Products, Inc.

DESCRIPTION: 25G WALL MOUNT  
PART NUMBER: 25GWM

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ALL DIMENSIONS ARE GIVEN IN INCHES. TOLERANCES ARE AS GIVEN BELOW UNLESS NOTED OTHERWISE.  
DECIMAL: ±0.063" ANGLES: ±2°

DATE: 7/20/99 DRAWN BY: D.J.L.  
CHECKED BY: APPROVED BY: J.R. 2.5.00  
SCALE: 1" = 1'-0" PART NO: EF 4424 REV: 01  
ITEM NO: C 2500M C990121 0



## G SERIES BRACKETED TOWERS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

Blank



March 1, 1989

Sheet D-2530  
(Replaces D-2445)

**REFERENCE SHEET AND ASSEMBLY INFORMATION**  
**G SERIES BRACKETED TOWERS, NON-GUYED**  
**(See Rohn Catalog for Guyed Tower Information)**

**INSTALLATION:** Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast and antenna combined. Tower should be installed and dismantled by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

**BASE:** See Drawing No. A880445 for the size of the hole for concrete placement. (Note: For cases of loose soil, etc., the hole must be larger.) Spread about 2" to 6" of gravel in bottom of hole prior to setting short base or tower section. After setting short base or tower section on gravel, fill another 3" with gravel around the tower legs. This allows the tower legs to extend the required amount below the bottom of the concrete, thus allowing for drainage of moisture into the gravel. The first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

**HEIGHT OF TOWER & BRACKET USES:** See Drawing No. A880496 for specific information on tower heights and placement of house brackets on #45 bracketed towers. (Note: Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.)

**BOLTS:** Installers are urged to use a 10" lining-up punch that tapers about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

**MISCELLANEOUS:** Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section or any part of a section at one time. Erection fixtures are not intended to be used for lifting individuals. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

**CAUTION . . .** Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 40' of #45 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

See Drawing No. A871266 for more information on non-guyed towers.

Our catalog information excludes roof installations. Local engineers must be consulted to determine adequate base and anchor details and windload criteria for all roof type installations.

**Note:** All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture. Temporary steel guys may be necessary at the 10' level.

<u>Part Number</u>	
BRKT040	40' Complete Bracketed Tower
BRKT050	50' Complete Bracketed Tower
BRKT060	60' Complete Bracketed Tower
BRKT070	70' Complete Bracketed Tower
BRKT080	80' Complete Bracketed Tower
BRKT090	90' Complete Bracketed Tower
BRKT100	100' Complete Bracketed Tower

Refer to alphabetical/numerical price list for Prices on Complete Bracketed Towers.  
Specifications subject to change without notice.

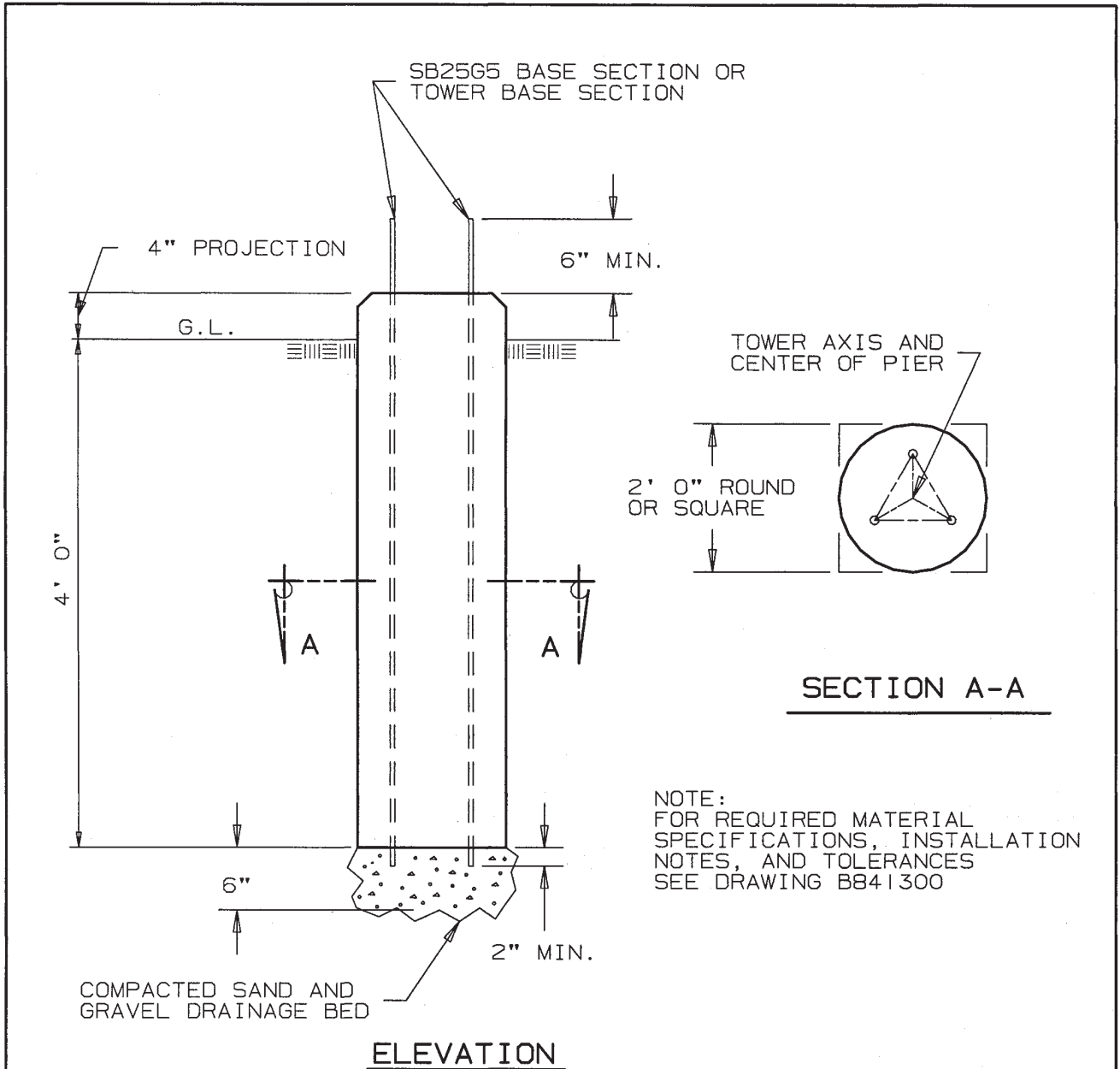
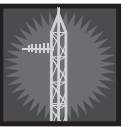


ROHN  
NO. 25G BRACKETED TOWERS - NO ICE

TOWER HEIGHT FT	BRACKET ELEVATION		ALLOWABLE ANTENNA AREAS (SQ.FT.)		
	UPPER (FT)	LOWER (FT)	70 MPH	80 MPH	90 MPH
40	30.0	15.0	15.3	11.3	7.7
50	36.0	18.0	14.6	10.0	6.8
60	46.0	23.0	14.0	8.9	5.9
70	56.0	28.0	13.5	8.3	5.5
80	66.0	33.0	13.1	7.7	5.0
90	66.0	33.0	6.8	4.9	---
100	66.0	33.0	1.7	---	---

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.
2. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.
3. DESIGNS ASSUME ONE 5/8" TRANSMISSION LINE ON EACH FACE, (TOTAL =3), SYMMETRICALLY PLACED.
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX.
5. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
6. ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6.
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
8. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
11. FOR FOUNDATION DETAILS SEE DRAWING AB71298.
12. ALL BRACKETS ARE TO BE ROHN P/N HBUTVRO PER DRAWING D650221.
13. THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED "BY OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 815 POUNDS.

BY: RAM      DATE: 3/17/88      CHECKED: AED      DATE: 3/17/88      DWG. NO. AB71302R1



MAX. REACTIONS

MOMENT = 1,563 FOOT POUNDS  
SHEAR = 211 POUNDS  
VERTICAL = 600 POUNDS

VOLUME OF CONCRETE

SQUARE PIER = .7 CU. YDS.  
ROUND PIER = .5 CU. YDS.

RI	REV. FND FOR NORMAL SOIL	2/27/96	CSR	WMN	XK
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.					
DRAWN BY: WDU		DATE: 9/16/87		ROHN	
CHECKED BY: WRF		DATE: 9/29/87			
APP'D. ENG: XK		DATE: 2/12/88		TITLE: DRILLED PIER FOUNDATION DETAIL FOR NORMAL SOIL PER ANSI/EIA-222-E FOR BRACKETED 25 TOWER	
APP'D. SALES: AE		DATE: 2/12/88			
FILE NUMBER:					
DRAWING NUMBER: A871298R1					



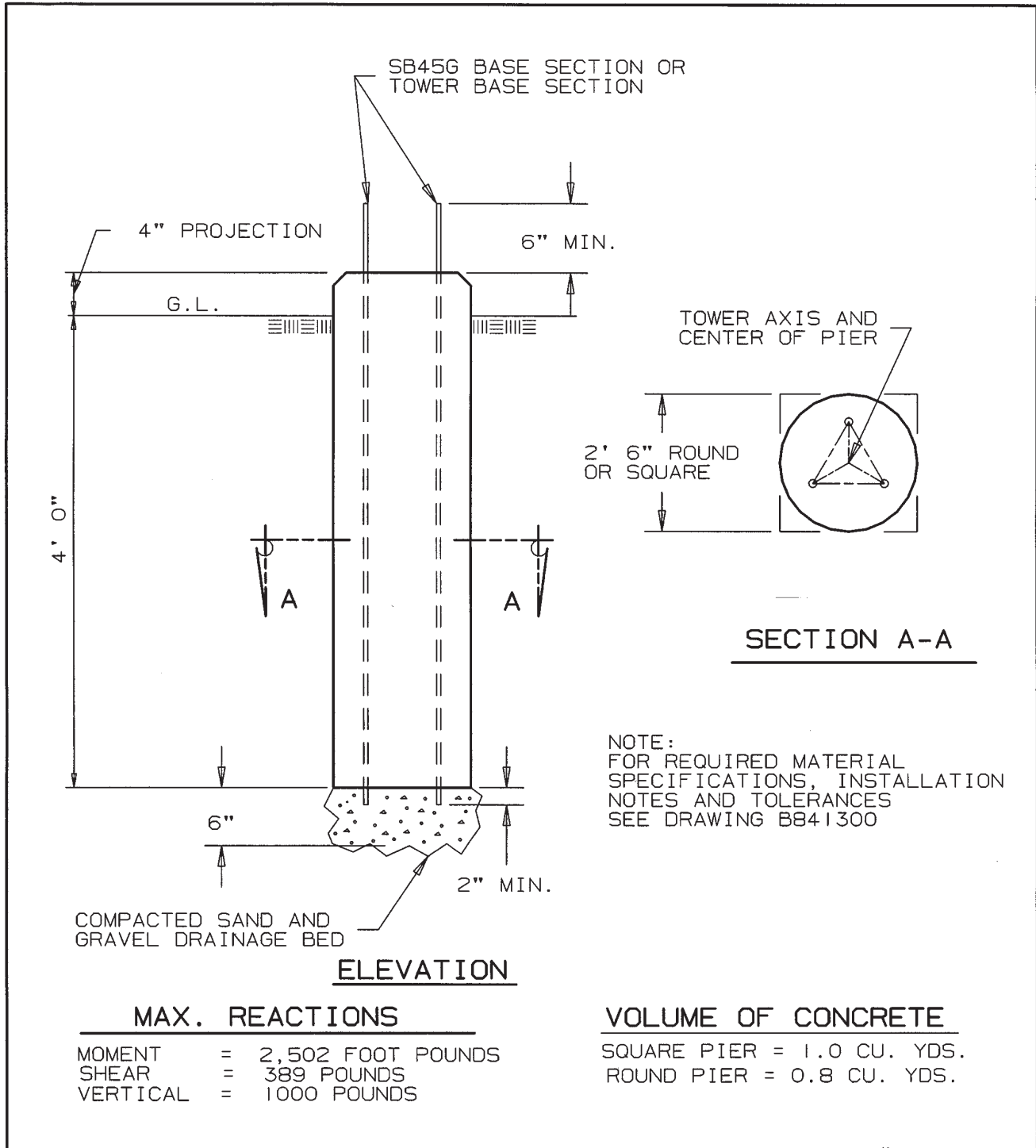
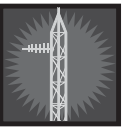


ROHN  
NO. 45G BRACKETED TOWERS - NO ICE

TOWER HEIGHT (FT)	BRACKET ELEVATION		ALLOWABLE ANTENNA AREAS (SQ.FT.)		
	UPPER (FT)	LOWER (FT)	70 MPH	80 MPH	90 MPH
40	30.0	15.0	36.7	27.4	21.0
50	36.0	18.0	34.8	25.9	20.0
60	46.0	23.0	33.3	24.7	19.0
70	56.0	28.0	32.0	23.8	17.0
80	66.0	33.0	31.0	23.0	12.0
90	66.0	33.0	13.8	9.3	5.3
100	66.0	33.0	5.5	2.0	---

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.
2. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.
3. DESIGNS ASSUME ONE 1/2" & ONE 7/8" TRANSMISSION LINE ON EACH FACE, (TOTAL=6), SYMMETRICALLY PLACED.
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX.
5. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
6. ALLOWABLE FLAT-PLATE AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6.
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
8. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
11. FOR FOUNDATION DETAILS SEE DRAWING A880445.
12. ALL BRACKETS ARE TO BE ROHN P/N HBUTVRO PER DRAWING DB50221.
13. THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED "BY OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 1810 POUNDS.

BY: RAM      DATE: 3/17/88      CHECKED: AED      DWG.NO. A880496R2



**ELEVATION**

**MAX. REACTIONS**

MOMENT = 2,502 FOOT POUNDS  
SHEAR = 389 POUNDS  
VERTICAL = 1000 POUNDS

**VOLUME OF CONCRETE**

SQUARE PIER = 1.0 CU. YDS.  
ROUND PIER = 0.8 CU. YDS.

RI	REVISED FOUNDATION FOR NORMAL SOIL	2/27/96	CSR	WMN	XK
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DRAWN BY: GPW		DATE: 02/19/88		<b>ROHN</b> TITLE: DRILLED PIER FOUNDATION FOR NORMAL SOIL PER ANSI/EIA-222-E FOR BRACKETED 45 TOWER	
CHECKED BY: WDU		DATE: 2/23/88			
APP'D. ENG: XK		DATE: 2/24/88			
APP'D. SALES: RAK		DATE: 3/17/88			
FILE NUMBER:					
DRAWING NUMBER: A880445R1					

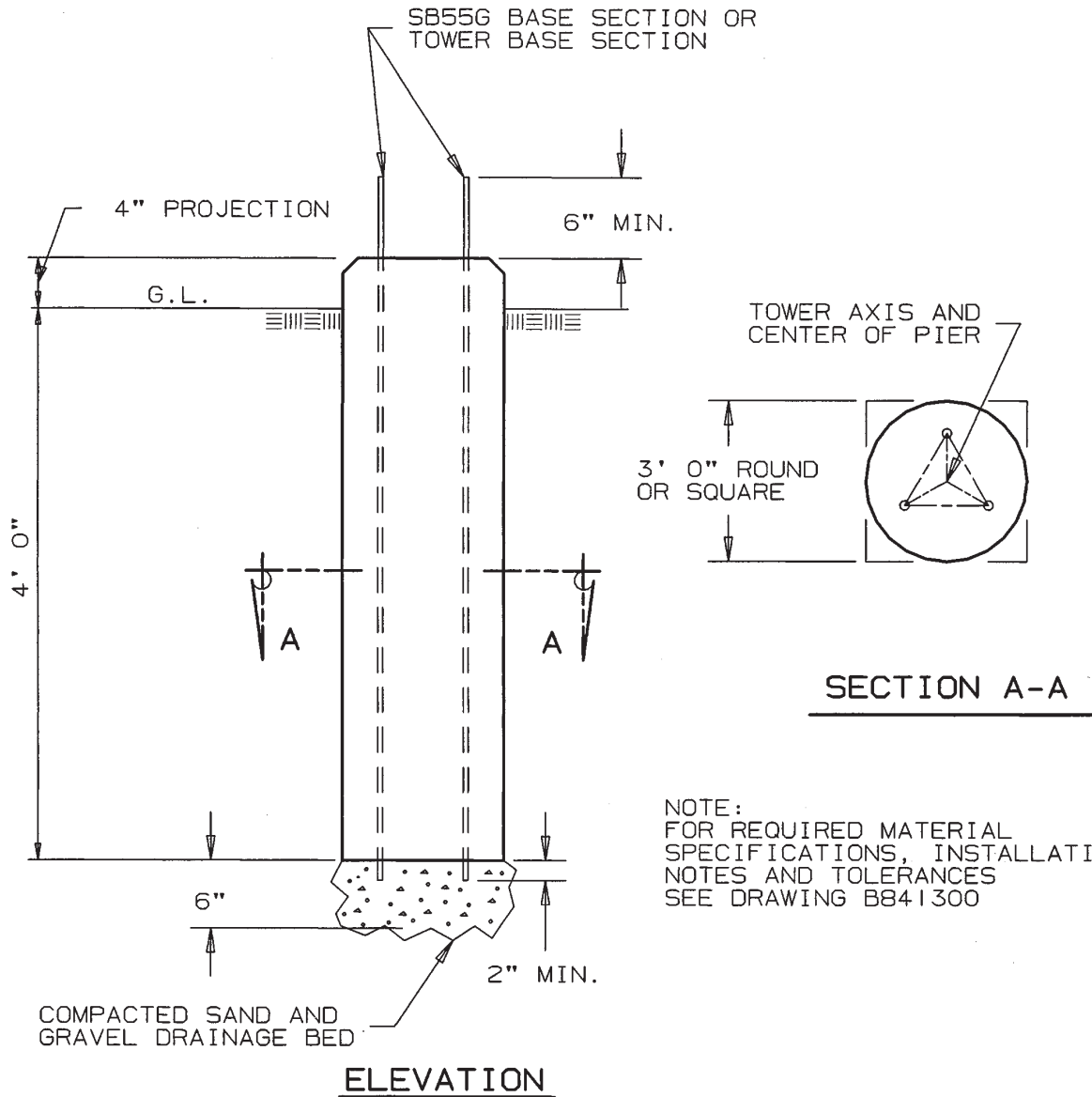
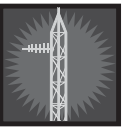


**ROHN**  
**NO. 55G BRACKETED TOWERS – NO ICE**

TOWER HEIGHT FT	BRACKET ELEVATION		ALLOWABLE ANTENNA AREAS (SQ. FT.)		
	UPPER FT	LOWER FT	70 MPH	80 MPH	90 MPH
40	30.0	15.0	72.4	54.5	41.8
50	36.0	18.0	68.7	51.7	39.4
60	46.0	23.0	65.8	49.5	37.6
70	56.0	28.0	63.5	47.5	36.0
80	66.0	33.0	61.4	46.0	34.6
90	66.0	33.0	30.6	22.0	16.0
100	66.0	33.0	16.0	10.5	6.4

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.
2. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.
3. DESIGNS ASSUME TWO 7/8" TRANSMISSION LINES ON EACH FACE, (TOTAL = 6), SYMMETRICALLY PLACED.
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX.
5. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
6. ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
8. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
11. FOR FOUNDATION DETAILS SEE DRAWING A880446.
12. ALL BRACKETS ARE TO BE ROHN P/N HBUTVRO PER DRAWING D850221.
13. THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED "BY OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 3200 POUNDS.

BY: RAM      DATE: 3/17/08      CHECKED: *Red*      DATE: 3/17/08      DWG. NO. A880497R1



NOTE:  
FOR REQUIRED MATERIAL  
SPECIFICATIONS, INSTALLATION  
NOTES AND TOLERANCES  
SEE DRAWING B841300

**ELEVATION**

**MAX. REACTIONS**

MOMENT = 4,180 FOOT POUNDS  
SHEAR = 634 POUNDS  
VERTICAL = 1340 POUNDS

**VOLUME OF CONCRETE**

SQUARE PIER = 1.4 CU. YDS.  
ROUND PIER = 1.1 CU. YDS.

RI	REVISED FOUNDATION FOR NORMAL SOIL	2/27/96	CSR	WMN	XK
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COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

DRAWN BY: GPW	DATE: 02/19/88	<b>ROHN</b> TITLE: DRILLED PIER FOUNDATION FOR NORMAL SOIL PER ANSI/EIA-222-E FOR BRACKETED 55 TOWER
CHECKED BY: WDU	DATE: 2/23/88	
APP'D. ENG: XK	DATE: 2/24/88	
APP'D. SALES: RAK	DATE: 3/17/88	
FILE NUMBER:		
DRAWING NUMBER: A880446R1		

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## G SERIES SELF SUPPORT TOWERS

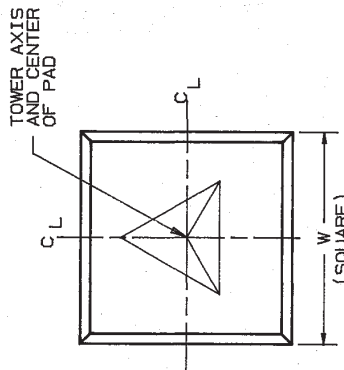


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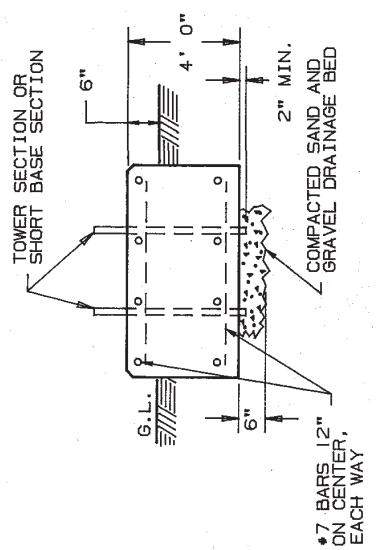


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**PLAN VIEW**



**ELEVATION VIEW**

TOWER NO.	OVER-TURNING MOMENT FOOT POUNDS	MAX. ALLOW. SHEAR POUNDS	W	CONCRETE REQUIRED CU. YDS.
25G	6,800	700	4' 0"	2.4
45G	12,800	1,600	5' 3"	4.1
55G	22,900	1,600	6' 0"	5.3
65G	49,600	3,600	7' 9"	8.9

**GENERAL NOTES**

- FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES, AND TOLERANCES SEE DRAWING NUMBER BB41300.
- SEE DRAWING NUMBER AB71266 FOR MAXIMUM TOWER HEIGHTS AND ALLOWABLE ANTENNA AREAS.

No. ▲	Revision Description	▲ Date	▲ By
<b>UNR-Rohn</b>			
<b>Title</b>			
<b>FOUNDATION DETAILS</b>			
<b>SELF-SUPPORTING 25, 45, 55 &amp; 65 TOWERS</b>			
Scale Unless otherwise specified, dimensions are given in inches.			
Drawn by	W.D.U.	Date	9/29/87
Checked by	V.R.F.	Date	9/19/87
Approved by Engineering	X.K.	Date	2/19/88
Approved by Production		Date	
Approved by Sales	P.A.L.	Date	2-19-88
Drawing Number			BB70725



## 80/90 SERIES



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**ROHN**<sup>TM</sup>  
**Products**



## 80/90 SERIES

UNBEATABLE STRENGTH UP TO  
1000 FEET

The 80/90 Series Towers are designed specifically for microwave installations, cellular, PCS, other heavy duty communication, TV and FM broadcast, and meteorological equipment installations. This series has a rating for installation up to 1000 feet, using variable size and weight of tubular or solid steel components. Each 80/90 tower is individually engineered to meet the stringent specifications of your particular job.

The 80/90 Series ROHN Towers are constructed in an equilateral triangular pattern with either steel pipe or solid steel legs and tubular or angle steel cross bracing with bolted construction. The triangular size is 41" on leg centers for the No. 80 Tower and 60.5" on leg centers for the No. 90 Tower. The diameter of the tower legs vary to meet the requirements of the installation. This feature permits considerable flexibility in supplying a tower tailored to specifically meet and adequately handle the equipment to be installed.



## “X” BRACE DESIGN

The “X” brace design of the 80/90 Series maximizes strength in critical areas as well as allows for future upgrading of the tower for additional loads. And Hot Dip Galvanizing all components after fabrication adds strength and durability. This protects all areas of the tower with a minimum of 2 ounces of molten zinc per square foot of surface applied throughout.

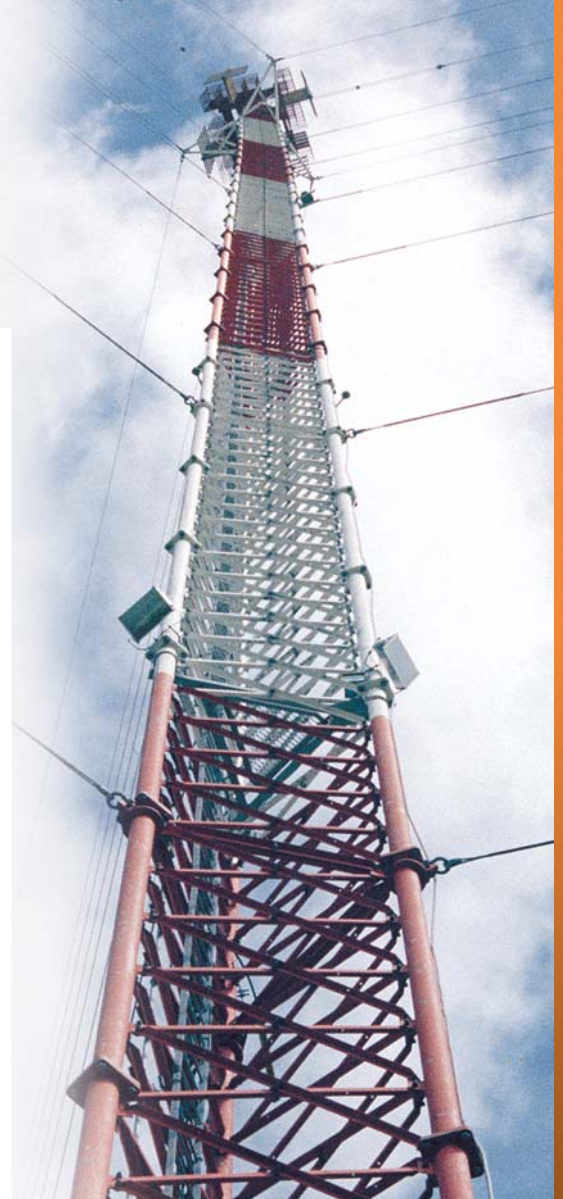
There are four towers in all that make up the 80/90 series, each with their unique benefits. The variations are the #80 Tower Pipe, the #80 Tower Solid, the #90 Tower Pipe, and the #90 Tower Solid.

The #80 Tower Pipe (#80) is a guyed tower with a 41” face. It’s designed for individual needs, making it the most economical structure that will still meet your exacting standards for a multiple use tower.

The #80 Tower Solid (#80SR) is a solid member guyed tower with a 41” face. This tower is custom designed with all the attributes of the #80, and is for use in those instances where a solid structure is preferred.

The #90 Tower Pipe (#90) is a guyed tower with a 60” face. This tower is individually engineered for heavy duty applications such as large diameter microwave situations and severe environmental conditions. It’s also ideal for collocation of multiple carriers.

The #90 Tower Solid (#90SR) is a solid member guyed tower with a 60” face. This tower offers another option in ROHN’s line of heavy duty guyed towers where extreme loads and maximum heights are necessary.



## ADDITIONAL 80/90 SERIES FEATURES:

- Time tested design
- Steel pipe or solid steel leg design
- Tubular or angle steel cross bracing with bolted construction
- For applications to 1000 feet
- Custom designs, individually engineered
- All parts Hot Dip Galvanized after fabrication



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## 80 SERIES



PRODUCTS FOR A  
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Sheet D-2855  
(Replaces D-2753)

#80 TOWER

20' standard sections	
Part Number	Weight
83P	430
83PH	520
84	565
84H	685
85H2	850
85HH	1115
83P11	540
83PH11	630
8411	675
84H11	795
85H113	960
85HH11	1230

20' X-braced sections	
Part Number	Weight
83PX	550
83PHX	635
84X	680
84HX	800
85HX2	960
85HHX	1230
83PX11	755
83PHX11	840
84X11	890
84HX11	1010
85HX112	1170
85HHX11	1435

20' sections w/guy lug	
Part Number	Weight
83PHGA2	720
84HGA2	885
84HGA	1030
85HGA2	1100
85HHGA	1300
83PH11GA	830
84H11GA	1000
85H11GA	1140
85H11GA2	1200
85HH11GA	1400

20' X-braced sections w/channel torque lug	
Part Number	Weight
83PHXTA3	755
84HXTA4	945
85HXTA3	1105
85HXTA4	1160
85HHXTA	1375
83PHX11TA3	965
84HX11TA4	1155
85HX11TA3	1315
85HX11TA4	1370
85HHX11TA	1580
84HXET2	1690
84HXET17	1690
84HXET23	1790
85HXET23	1855
85HXET173	1855
85HXET24	1910
85HXET174	1910
85HHXET2	2120
85HHXET17	2120

Transition sections	
Part Number	Weight
85H3	875
85HX3	990
85H114	990
85HX113	1200
85HC3	690
85HXC3	775
85H11C3	780
85HX11C3	935

20' angle X-braced sections	
Part Number	Weight
84HXE	1580
85HXE1	1730
85HHXE	1995

15' sections	
Part Number	Weight
84HC	540
85HC2	660
84H11C	625
85H11C2	750
85HHC	890
85HHC1	860
85HH11C1	955
85HH11C	980

20' X-braced sections w/guy lug	
Part Number	Weight
83PHXGA2	830
84HXGA	1000
85HXGA	1160
85HXGA2	1205
85HHXGA	1410
83PHX11GA	1045
84HX11GA	1205
85HX11GA	1350
85HX11GA2	1415
85HHX11GA	1600

15' X-braced sections	
Part Number	Weight
84HXC	620
85HXC2	745
85HHXC	950
85HHXC1	975
84HX11C	785
85HX11C2	905
85HHX11C	1110
85HHX11C1	1135

20' X-braced sections for use w/TA80HSR	
Part Number	Weight
84HXETA3	2050
85HXETA3	2320
85HXETA4	2370
84HXETAT3	2150
85HXETAT3	2380
85HXETAT4	2370
85HHXETA	2515

20' X-braced sections w/Top Ch. Support	
Part Number	Weight
84HXL2	1175

Part No.	Description	Wt.
▼ 3/4X16BB	Concrete base bolt w/double nuts (12 required)	1-1/2
▼ 15/16X16PP	Pier pin (for tapered bases - 1 required)	3
88 DP80A	Drainage plates (set of 3)	20
88 DP85A	Drainage plates (set of 3)	44
88 83ACL	Anti-climb panels (Dwg. C750291)	360
88 84ACL	Anti-climb panels (Dwg. C750291)	360
88 85ACL	Anti-climb panels (Dwg. C750291)	375
▼ 80TB1	5' tapered base (welded)	360
88 ▼ 80TB3	5' tapered base (welded) w/ground lugs on 3 legs	380
88 ▼ 80TBKD	5' tapered base (knocked down)	470
88 ▼ 80TBKDIA	5' tapered base (knock down) drilled to fit A4722 base insulator	520
88 ▼ 80TBIA	5' tapered base (welded) drilled to fit A4197 or A4722 base insulator	430
▼ 85TB1	5' tapered base (welded)	420
88 ▼ 85TB3	5' tapered base (welded) w/ground lugs on 3 legs	440
88 ▼ 85TBI	5' tapered base (welded), drilled to fit base insulator	450
88 ▼ 85HTB	5' tapered base (welded)	520
88 ▼ 85HTB1	5' tapered base (welded) w/ground lugs on 3 legs	540
GA80	Guy assembly (bracket w/torque bars)	115
GB80	Guy bracket only	95
GA85	Guy assembly (bracket w/torque bars)	140
GB85	Guy bracket only	114
88 ♦ TA8383	8" channel torque arm assembly (7-1/2')	315
88 ♦ TA8483	8" channel torque arm assembly (7-1/2')	320
88 ♦ TA8583	8" channel torque arm assembly (7-1/2')	325
♦ TA83103	10" channel torque arm assembly (7-1/2')	415
♦ TA84103	10" channel torque arm assembly (7-1/2')	420
♦ TA85103	10" channel torque arm assembly (7-1/2')	425
♦ TA84129	12" channel torque arm assembly (7-1/2')	660
88 ♦ TA841210	12" channel torque arm assembly (7-1/2')	875
♦ TA85128	12" channel torque arm assembly (7-1/2')	665
88 ♦ TA85129	12" channel torque arm assembly (7-1/2')	880
♦ TA84156	15" channel torque arm assembly (7-1/2')	965
♦ TA85156	15" channel torque arm assembly (7-1/2')	975
♦ TA8418433	18" channel torque arm assembly (7-1/2')	1490
88 ♦ TA8418583	18" channel torque arm assembly (7-1/2')	1845
88 ♦ TA8518433	18" channel torque arm assembly (7-1/2')	1500
88 ♦ TA8518583	18" channel torque arm assembly (7-1/2')	1860
♦ TA80H	Heavy duty torque arm (16")	725
♦ TA80HSR	Extra heavy duty torque arm (16")	2500
APL6A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for sections 83P, 83PH, 84, 84H and 85H)	16
APL1258UM	Mid beacon plate for inside or outside tower	30
CP6A	Cap plates (set of 3 w/nuts and bolts) for sections 83P, 83PH, 84, 84H, and 85H	15
S80	Step bolts, one leg	1/ft.
KX552A	Platform, outside rotatable (Dwg. D940532)	1420
PT1L	Platform, panel step-off (Dwg. C730884)	49
KX550A	Platform, full (Dwg. D920702)	1110

20' X-braced sections for use with TA80H	
Part Number	Weight
84HXTA5	1300
84HXETA	1755
85HXTA6	1440

(Note: 11 = 1-1/2" heavy wall tubular braces)

If ANCO nuts are required, add "AN" suffix to the appropriate section part number.

▼ Towers mounted on this base must be guyed at all times.

♦ This item not to be used without proper design consideration.

88 Not a stock item. Allow sufficient time for fabrication.

See Hardware and Accessories section of the ROHN catalog for additional accessories (such as dish mounts, ladders, etc.) for the #80 tower.

F.O.B. Peoria, Illinois

Prices and Specifications subject to change without notice.



TOWER SECTION SCHEDULE

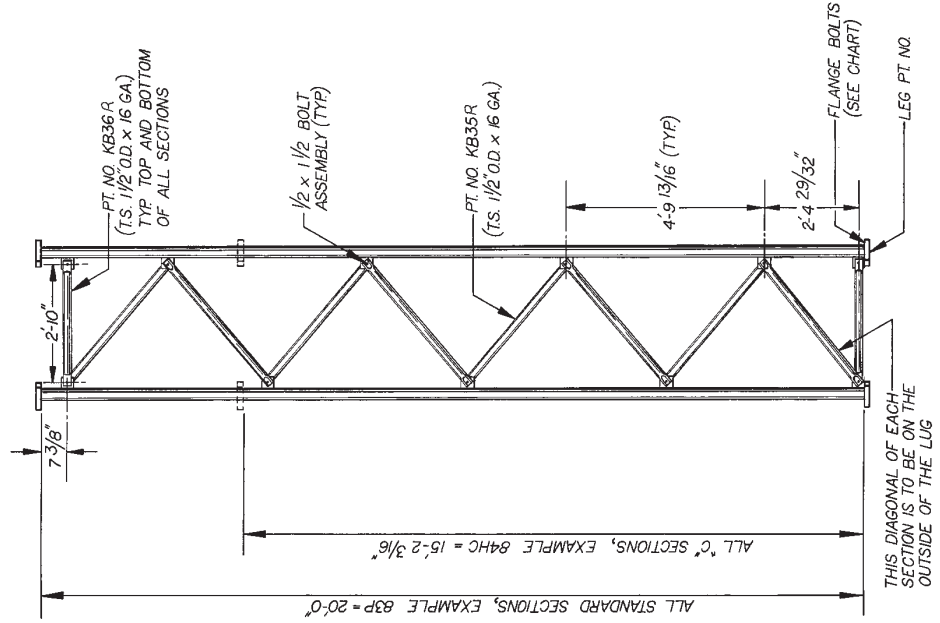
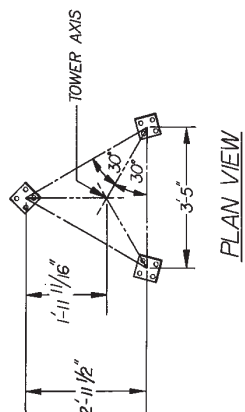
SECTION **PT. NO.	LEGS		FLANGE BOLTS		STEP BOLTS		BRACES		BRACE BOLTS		
	PIPE SIZE	PT. NO.	QTY.	SIZE PT. NO.	QTY.	PT. NO.	QTY.	PT. NO.	QTY.	SIZE PT. NO.	QTY.
83P	2" STD.	KL56	3	3/4 x 2 1/2 2100496A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
83PS	2" STD.	KL56 KL56S	2 1	3/4 x 2 1/2 2100496A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
83PH	2" X-STR.	KL57	3	3/4 x 2 1/2 2100496A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
83PHS	2" X-STR.	KL57 KL57S	2 1	3/4 x 2 1/2 2100496A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
84	2 1/2" STD.	KL60	3	3/4 x 2 1/2 2100496A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
84S	2 1/2" STD.	KL60 KL60S	2 1	3/4 x 2 1/2 2100496A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
84H	2 1/2" X-STR.	KL61	3	3/4 x 2 1/2 2100496A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
84HS	2 1/2" X-STR.	KL61 KL61S	2 1	3/4 x 2 1/2 2100496A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
84HC	2 1/2" X-STR.	KL59	3	3/4 x 2 1/2 2100496A	12			KB35R KB36R	18 6	1/2 x 1/2 2100186A	27
84HCS	2 1/2" X-STR.	KL59 KL59S	2 1	3/4 x 2 1/2 2100496A	12	5/8 STEP	12	KB35R KB36R	18 6	1/2 x 1/2 2100186A	27
85	3" STD.	KL64	3	7/8 x 3/2 2100636A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
85S	3" STD.	KL64 KL64S	2 1	7/8 x 3/2 2100636A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
85H	3" X-STR.	KL55	3	7/8 x 3/2 2100636A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
85HS	3" X-STR.	KL55 KL55S	2 1	7/8 x 3/2 2100636A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
85HC	3" X-STR.	KL163	3	7/8 x 3/2 2100636A	12			KB35R KB36R	18 6	1/2 x 1/2 2100186A	27
85HCS	3" X-STR.	KL163 KL163S	2 1	7/8 x 3/2 2100636A	12	5/8 STEP	12	KB35R KB36R	18 6	1/2 x 1/2 2100186A	27
*845H	2 1/2" X-STR.	KL68	3	7/8 x 3/2 2100636A	12			KB35R KB36R	24 6	1/2 x 1/2 2100186A	33
*845HS	2 1/2" X-STR.	KL68 KL68S	2 1	7/8 x 3/2 2100636A	12	5/8 STEP	16	KB35R KB36R	24 6	1/2 x 1/2 2100186A	33

\* TRANSITION SECTION WITH 7" FLANGE PLATES AT THE BOTTOM AND 6" FLANGE PLATES AT THE TOP  
 \*\* SECTION PART NUMBERS ENDING WITH AN "S" INDICATE THAT THE SECTIONS WILL HAVE STEP BOLTS ON ONE LEG FOR CLIMBING.

R5	REVISED TOWER SECTION SCHEDULE	11-29-90	WEB
R4	REVISED TOWER SECTION SCHEDULE	1-31-90	WEB
R3	REDRAWN	12-8-81	AUG

GENERAL NOTES:

1. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS
2. FOR LEG FABRICATION, SEE DRAWINGS NUMBERED: C760013, C760014, C760015, C760016, C760017, C760018, C760019, AND C760020.
3. FOR BRACE FABRICATION, SEE DRAWING NUMBER B660719.
4. FABRICATION DRAWINGS ARE FOR SHOP USE ONLY.



ELEVATION VIEW

ALL STANDARD SECTIONS, EXAMPLE 83P = 20'-0"  
 ALL "C" SECTIONS, EXAMPLE 84HC = 15'-2 3/16"  
 THIS DIAGONAL OF EACH SECTION IS TO BE ON THE OUTSIDE OF THE LUG

ROHN®

MODEL NO. 80 TOWER  
 STANDARD SECTIONS

Scale: NONE  
 Drawn by: AUG 12-8-81  
 Checked by: G.P.W. 12-22-81  
 Approved by: G.P.W. 12-22-81  
 Approved for Production: G.P. 12-22-81  
 Date: 12-22-81  
 Drawing Number: C681228 R5







## 90 SERIES



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY





## #90 TOWER

Part No.	Wt.
☼ + 920A	705
☼ + 920B	815
☼ + 920C	915
☼ + 920D	1115
☼ + 920E	1275
☼ + 925A	810
☼ + 925AB	845
☼ + 925AT	840
☼ + 925B	935
☼ + 925BB	955
☼ + 925BT	950
☼ + 925C	1035
☼ + 925CB	1060
☼ + 925CT	1050
☼ + 925D	1235
☼ + 925DB	1265
☼ + 925DT	1250
☼ + 925E	1395
☼ n 925EB	1420
☼ + 930A	1035
☼ + 930B	1140
☼ + 930C	1240
☼ + 930D	1440
☼ + 930E	1600
☼ + 930F	1815
☼ + 935B	1285
☼ + 935C	1385
☼ + 935D	1580
☼ + 935E	1745
☼ + 935F	1960

Part No.	Wt.
☼ + 940B	1440
☼ n 940BB	1520
☼ + 940C	1540
☼ n 940CB	1600
☼ n 940CT	1595
☼ + 940D	1735
☼ + 940E	1900
☼ n 940EB	1975
☼ n 940ET	1955
☼ + 940F	2110
☼ + 950C	2055
☼ + 950D	2245
☼ + 950E	2410
☼ + 950F	2615
☼ + 955C	2585
☼ + 955D	2760
☼ + 955E	2945
☼ + 955F	3110
☼ d 920ETAX **	1760
☼ 925ETAX **	1865
☼ + 930ETAX **	52095
☼ 935ETAX **	2190
☼ 940ETAX **	2405
☼ 950ETAX **	2920
☼ 955ETAX **	3425
☼ 925EHHD **	2220
☼ 930EHHD **	2415
☼ 935EHHD **	2550
☼ 940EHHD **	2695
☼ 950EHHD **	3155
☼ 955EHHD **	3690
☼ n 955FHHD **	2710

**Notes:** D = 2" x 2" x 1/4" brace with 1-5/8" bolts    E = 2" x 2" x 1/4" brace with 2-5/8" bolts    F = 2-1/2" x 2-1/2" x 1/4" brace with 2-3/4" bolts

For step bolts on one leg, add "SB" suffix and-----	20
Top section (if not a heavy duty torque arm section), add-----	35
*Add "GAL3" suffix for section w/standard guy lugs and-----	110
*Add "GAL3SB" suffix (same as above) w/step bolts one leg and-----	130
*Add "GAL2" suffix for section w/heavy duty guy lugs and-----	210
*Add "GAL2SB" suffix (same as above) w/step bolts one leg and-----	230
*Add "GAL4" suffix for sections w/extra heavy duty guy lugs &-----	
*Add "GAL4SB" suffix (same as above) w/step bolts one leg and-----	
Add "TL44" or TL164" suffix for section w/standard torque arm lugs and-----	10

For anco nuts, add "AN" suffix and \$25 to the appropriate section dealer price. For 10', 12' and 15' sections, use appropriate 20' section dealer price.

\*4 in part number designates 1-1/8" wire maximum, 3 designates 5/8" wire maximum and 2 designates 7/8" wire maximum.

\*\*Torque arm section only. Show torque arm as a separate item on parts lists.

☼ **Not a stock item. Allow sufficient time for fabricating.**



## #90 TOWER

Part No.		Wt.	
+	TB90	8' tapered base, 4" EH	1310
np	TB901	8' tapered base, 4" EH, with ground lugs	1330
np	TB90A1	10' tapered base extension, 4" EH, with ground lugs (Dwg. C730307)	1760
⌘	TB950	(*) 8' tapered base, 5" EH	2005
⌘ +	TB950A	10' tapered base, 5" EH	2680
⌘ +	TB955	8' tapered base, 5-1/2" EH	2300
⌘	TB955A	10' tapered base, 5-1/2" EH	3025
d	JB90TB	Jack pads for #90 tapered base	105
+	APL6A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for 920 and 925 series)	16
+	APL7A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for 930, 935 and 940 series)	17
⌘ +	APL95A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for 950 series)	30
+	APL1258UM	Mid beacon plate	30
	CP6A	Cap plates (set of 3 w/nuts and bolts)	15
	CP7A	Cap plates (set of 3 w/nuts and bolts)	15
⌘	CP95A	Cap plates (set of 3 w/nuts and bolts)	17
⌘ +	9T20*	(*) Channel torque arm - 12"	900
⌘ d	9T30*	(*) Channel torque arm - 12"	1200
⌘ +	9T33*	(*) Channel torque arm - 15"	1350
⌘ +	9T43*	(*) Channel torque arm - 18"	1950
⌘ +	9T58*	(*) Channel torque arm - 18"	2500
+	TA90H*	Heavy duty torque arm	1065
⌘ +	TA90HHD*	Extra heavy duty torque arm	2765
⌘ +	TA95H*	Heavy duty torque arm	1050
⌘ +	TA95HHD*	Extra heavy duty torque arm	2720
⌘ +	L90IS10	(**) 10' inside corner mounted standard ladder (Dwg. C820184)	4/ft.
⌘ +	L90IS20	(**) 20' inside corner mounted standard ladder (Dwg. C820184)	8/ft.
⌘ +	L90IH10	(**) 10' inside corner mounted heavy ladder	32.50/ft. 7/ft.
⌘ +	L90IH20	(**) 20' inside corner mounted heavy ladder	22.50/ft. 11/ft.
	5/8STEP	(S90) Step bolts, one leg (tower ht. x .8 = qty.)	5.00/ft. 1/ft.
⌘	LPL90I	(*) Inside ladder platform	85
np	T1L	Platform, panel step-off (Dwg. C730884)	49
np	NK1082A	Platform, full assy. for #90 (Dwg. D910472)	1050

\*Specify leg size and order hardware separately. Section must be marked with torque arm.

(\*) Part number is for sales pricing reference only. See appropriate engineering drawings to determine assembly number.

(\*\*) Order hardware separately.

**Not a stock item. Allow sufficient time for fabricating.**

See Hardware and Accessories Section of the Rohn Catalog for additional accessories (i.e. dish mounts, ladders, etc.) for the #80 tower.





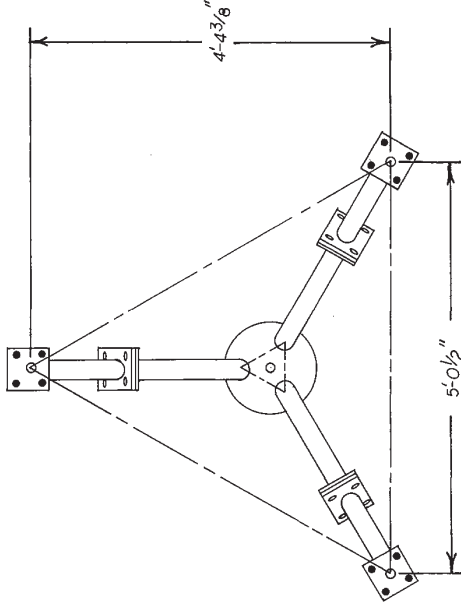
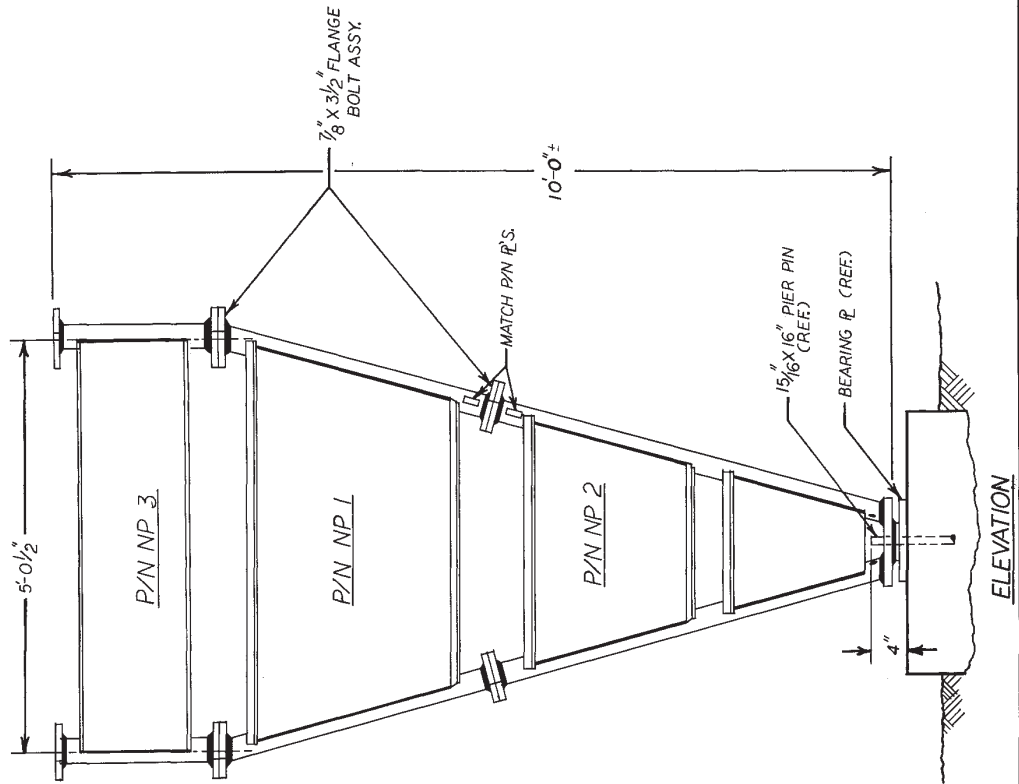




BILL OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NP 1	UPPER BASE ASSY.	C721216
2	1	NP 2	LOWER BASE ASSY.	"
3	1	NP 3	BASE EXTENSION	C730308
4	24	2100636A	7/8 X 3 1/2 BOLT ASSY	C770404

NOTE: MUST BE ASSEMBLED W/ IDENTICAL MATCH P/N'S ON THE SAME LEG.

TEMPORARY STEEL GUYING IS NECESSARY DURING INSTALLATION OR DISMANTLING.



PLAN

ASSY P/N TB90A

R 6	ADDED TEMP GUYING NOTE	1/2-5-86	ZIB
R 5	REDRAWN	1-30-85	GLJ
No. Revision Description		Date	By

UNR-Rohn  
Division of UNR, Inc.

Title  
**TAPERED BASE ASSEMBLY  
FOR MODEL 90 SERIES TOWER**

Scale NONE  
Unless otherwise specified, dimensions are given in inches.  
Drawn by WDU 3-14-73  
Checked by TS 3-14-73  
Approved by Engineering CW 3-14-73  
Approved by Production Date  
Approved by Sales GR 3-14-73

Drawing Number  
**C730307**  
R6

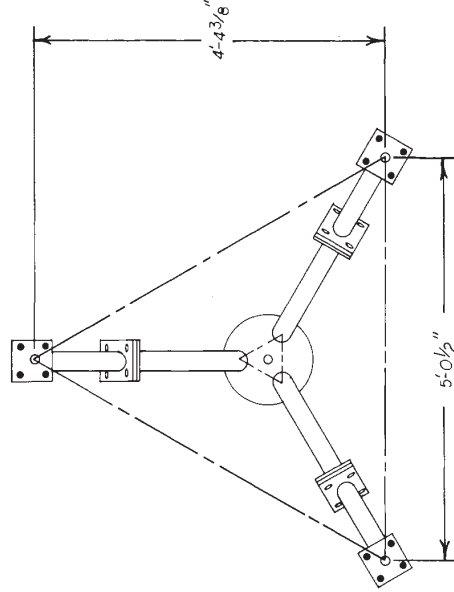
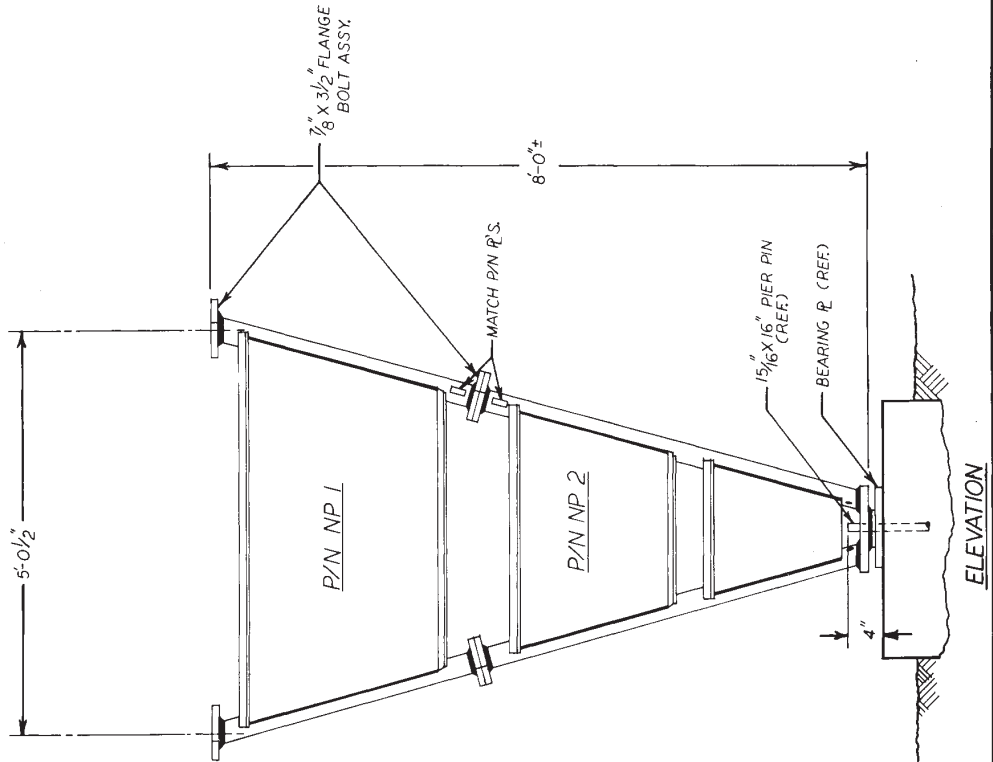
BRUNING 40-105 41903 3



BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	IMP. NO.
1	1	NP 1	UPPER BASE ASSY.	C721216
2	1	NP 2	LOWER BASE ASSY.	"
3				
4	12	2100636A	7/8 X 3 1/2 BOLT ASSY.	C770404

**NOTE:** MUST BE ASSEMBLED W/ IDENTICAL MATCH P/N'S ON THE SAME LEG.

TEMPORARY STEEL BUYING IS NECESSARY DURING INSTALLATION OR DISMANTLING.



**UNR-Rohn**  
 Division of UNR, Inc.  
 11000 Glenhurst Ave., East Greenwich, New York 11548

**Title**  
 TAPERED BASE ASSEMBLY  
 FOR MODEL 90 SERIES TOWER

**Drawn by** JER 12-12-72  
**Checked by** WDU 2-23-73  
**Approved by Engineering** CW 2-23-73  
**Approved by Production** [Signature]

**Revision**  
 R6 ADDED TEMP. BUYING NOTE  
 R5 REDRAWN  
 Date: 7-30-85  
 By: GJ

**Drawing Number** C721215  
**Scale** R6





## 80/90 SERIES ACCESSORIES



PRODUCTS FOR A  
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## **WAVEGUIDE BRACE BRACKET ASSEMBLIES**

Waveguide Brace Bracket Assemblies are similar to ROHN's Waveguide Ladder Assemblies, only these mount directly to the top horizontal and the diagonal brace of a ROHN #80 or #90 guyed tower by way of a special u-bolt assembly. The rungs for these brace brackets are also pre-punched with twelve 7/16" diameter holes to accommodate butterfly hangers and twelve 3/4" diameter holes to accept snap-in hangers. A #80 tower would require four diagonal brace brackets and one horizontal for each 20 ft. section. A #90 tower would require five diagonals and one horizontal for each 20ft. section. All items are hot dip galvanized.

*Model 80 Tower  
connection*

<b>Part Number</b>	<b>Description</b>
WAF801211	For 1-1/2" Dia. tube horizontals
WAF801212	For 1-1/2" Dia. tube diagonals
WAF801213	For angle horizontals
WAF801214	For 2 bolt 2" x 1/4" diagonals
WAF801215	For 1 bolt 1-3/4" x .19" diagonals
WAF901521	For #90 diagonal braces

*Model 90 Tower  
connection*

*Model 80 Tower*

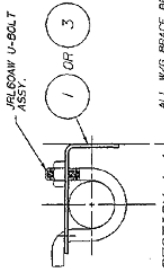
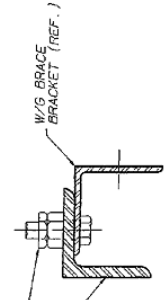
*Model 90 Tower*





**ORDERING AND MOUNTING INFORMATION**

ASSEMBLY FOR EACH TOP HORIZONTAL BRACE THAT W/G'S CROSS IN A SECTION.  
 ORDER (1) ASSEMBLY FOR EVERY OTHER DIAGONAL BRACE THAT W/G'S CROSS IN A SECTION.  
 ORDER (2) ASSEMBLY FOR EVERY OTHER DIAGONAL BRACE THAT W/G'S CROSS IN A SECTION.  
 REFER TO SECTION ASSEMBLY DRAWINGS FOR TOWER SECTION DETAILS.  
 NOTE:  
 THESE ASSEMBLIES ARE TO BE MOUNTED ON OUTSIDE FACE OF TOWER AS SHOWN OR  
 INSIDE FACE OF TOWER AS SHOWN. THE TOWER BRACE BRACKET MUST BE INSTALLED  
 IF CIRCULAR W/G IS USED. THE W/G'S MUST BE INSTALLED WITH THE TOWER BRACE  
 REQUIRED TO PERFECTLY ALIGN W/G'S ON BRACKETS.



ALL W/G BRACE BRACKETS  
 MUST BE INSTALLED WITH  
 THEIR VERTICAL FACE  
 PARALLEL TO THEIR TOWER FACE.

ASSY. P/N: WAF801211 FOR 1.5" DIA. TUBE HORIZONTALS

ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	K12107	HORIZONTAL W/G BRACE BRACKET	8061874
2	JALB04W	U-BOLT ASSY. W/WASHER	AS10858

ASSY. P/N: WAF801212 FOR 1.5" DIA. TUBE DIAGONALS

ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
3	K12108	DIAGONAL W/G BRACE BRACKET	8061875
2	JALB04W	U-BOLT ASSY. W/WASHER	AS10858

ASSY. P/N: WAF801213 FOR ANGLE HORIZONTALS

ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
5	K12105	HORIZONTAL W/G BRACE BRACKET	8061870
2	2100058A	.38 X 1.25 BOLT ASSY.	C770404

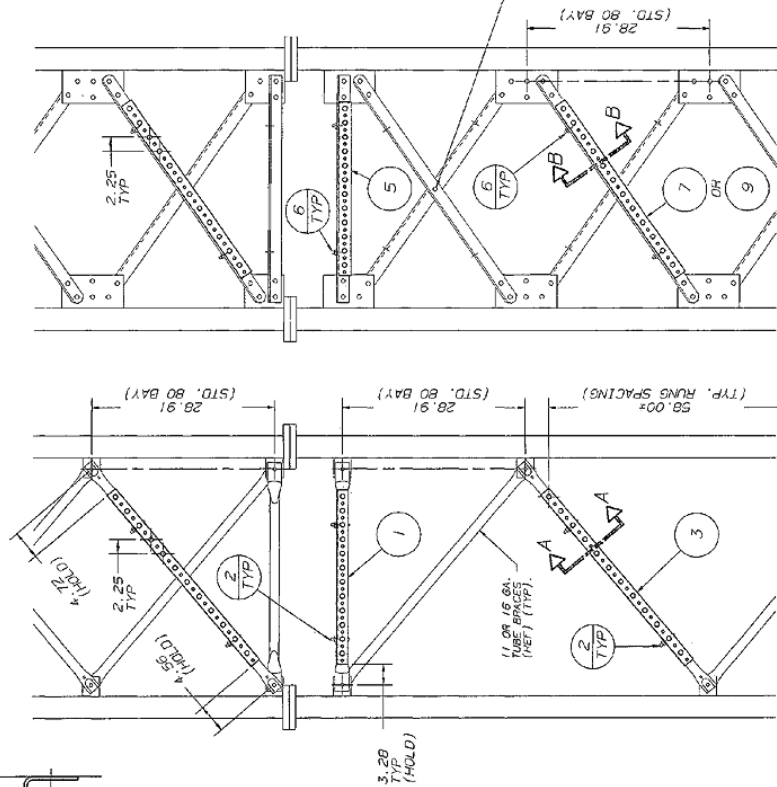
ASSY. P/N: WAF801214 FOR (2) BOLT 2 X .25 DIAGONALS

ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
7	K12104	DIAGONAL W/G BRACE BRACKET	8061869
2	2100058A	.38 X 1.25 BOLT ASSY.	C770404

ASSY. P/N: WAF801215 FOR (1) BOLT 1.75 X .19 DIAG'S.

ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
9	K12106	DIAGONAL W/G BRACE BRACKET	8061871
2	2100058A	.38 X 1.25 BOLT ASSY.	C770404

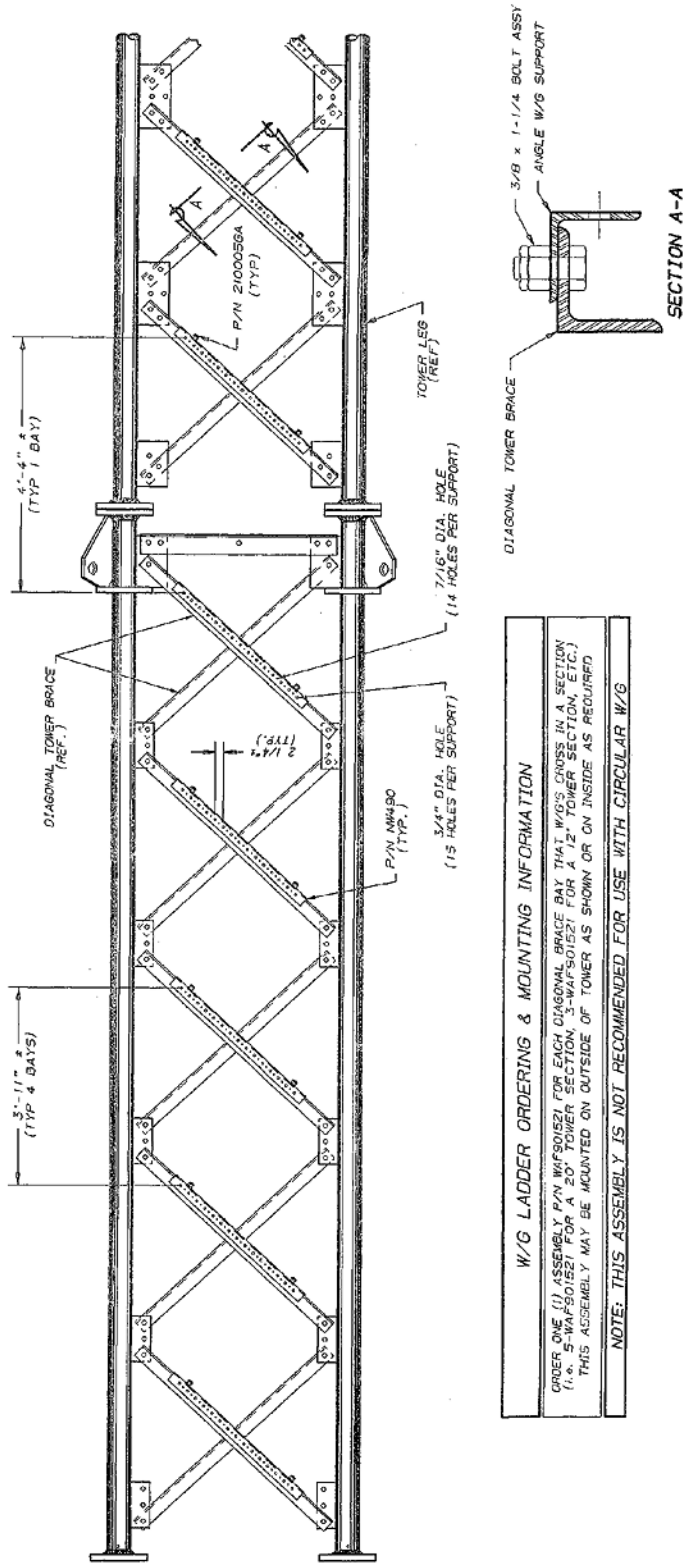
NOTE:  
 CENTER BOLT MUST BE INSTALLED  
 WITH NUT TOWARDS TOWER AXIS  
 ON X-BRACED SECTIONS.



TOWER SECTION

TOWER SECTION

Rev. A		Description		Title	
Drawn	WAD	Checked	U	By	WAD
App. Eng.	75	App. Eng.	75	By	WAD
NOTE: THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.				<b>ROHN</b>	
W/G BRACE BRACKET ASSEMBLY WITH (12) .44 & .75 DIA. HOLES FOR 80 TOWER TUBE & ANGLE BRACES				DWG. NO.: C951161	



**W/G LADDER ORDERING & MOUNTING INFORMATION**

ORDER ONE (1) ASSEMBLY P/N WAF901521 FOR EACH DIAGONAL BRACE BAY THAT W/G'S CROSS IN A SECTION (I.E. S-WAF901521 FOR A 20' TOWER SECTION, 3-WAF901521 FOR A 12' TOWER SECTION, ETC.) THIS ASSEMBLY MAY BE MOUNTED ON OUTSIDE OF TOWER AS SHOWN OR ON INSIDE AS REQUIRED

**NOTE: THIS ASSEMBLY IS NOT RECOMMENDED FOR USE WITH CIRCULAR W/G**

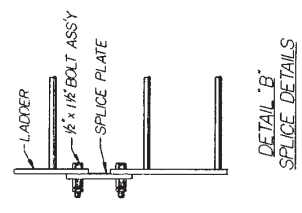
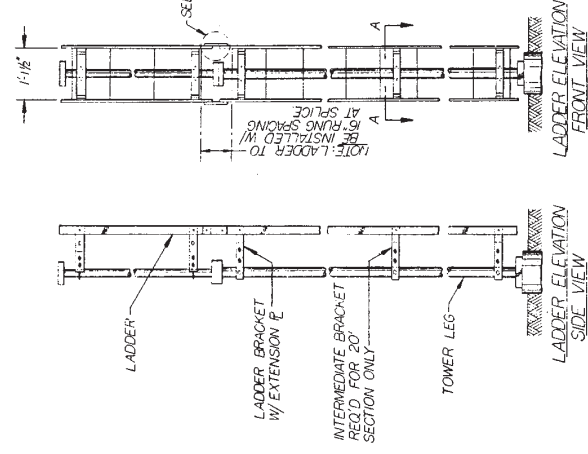
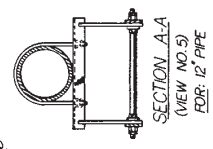
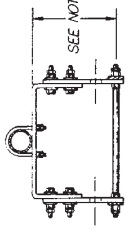
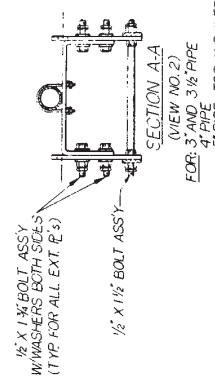
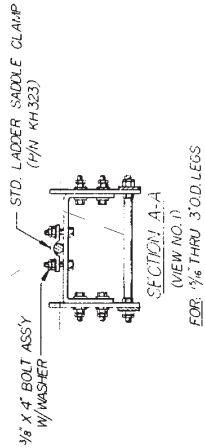
ASSEMBLY P/N WAF901521 BILL OF MATERIAL			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	NW480	ANGLE W/G SUPPORT
2	2	2100058A	3/8" x 1-1/4" BOLT ASSY

REV	REPLACED NUTS WITH NW480	8/2/90	MAN	EST	JS
RT	REVERSED TOWER BRACING	8/2/90	CSR	WZA	TS
No. A Revision Description					
A Date A Rev By A Crs E/A App'd By					
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT OUR WRITTEN CONSENT.					
Scale:	None	By	CSR	Date	2/15/90
Drawn:		App'd:	MAN	Date	2/19/90
App. Eng.:	TS	App. Eng.:	TS	Date	2/19/90
App. Stress:	JC	App. Stress:	JC	Date	2/19/90
<b>ROHN</b>					
<b>BRACE MOUNTED W/G SUPPORT ASSEMBLY FOR MODEL 90 TOWER (15 HOLES - 2-1/4" O.C.)</b>					
DRAWING NO.:					C900802R2



BILL OF MATERIAL

ITEM	QUAN	PART NO.	DESCRIPTION	DWG. NO.
1	1	AL 20	LADDER 20' LONG	SK680905
2	REF	SEE CHART	LADDER BRACKET HARDWARE KIT	SEE CHART
3	1	K195	SPICE PLATE	SK680905
4	10	30095A	1/2" X 1/2" BOLT ASSY	SK680905
5	10	20005-AW	1/2" X 1/2" BOLT ASSY W/WASHER	SK680905
6	16	25000G	1/2" FLAT WASHER	SK680905
7	1	AL 10	LADDER 10' LONG	SK680905
8	REF	SEE CHART	LADDER BRACKET HARDWARE KIT	SEE CHART
9	2	K195	SPICE PLATE	SK680905
10	8	30005A	1/2" X 1/2" BOLT ASSY	SK680905
11	8	20005-AW	1/2" X 1/2" BOLT ASSY W/WASHER	SK680905
12	16	25000G	1/2" FLAT WASHER	SK680905



LEG	LADDER BRACKET ASSY P/N	BRACKET P/N	SADDLE CLAMP P/N	U-BOLT-1 P/N	BOLT SIZE 2 REQ'D PER BRACKET	WASHER P/N	EX. FLATE CITY	SECTION A-A VIEW NO.	FALL LMG. NO.
BAR 1/4"	K7615	K7605	KH323	387X4	W/WASHER	2	2	1	SK680905
BAR 1/4"	K7615	K7605	KH323	387X4	W/WASHER	2	2	1	SK680905
2" PIPE	K7615	K7605	KH323	387X4	W/WASHER	2	2	1	SK680905
2 1/2" PIPE	K7615	K7605	KH323	387X4	W/WASHER	2	2	1	SK680905
3" PIPE	K7615	K7605	KH323	387X4	W/WASHER	2	2	1	SK680905
3 1/2" PIPE	K7616	K7604	JR64AW	JR62AW		2	2	2	SK680905
4" PIPE	K7618	K7604	JR63AW	JR62AW		2	2	2	SK680905
5" PIPE	K7619	K7605	JR66A	JR67A		2	2	2	SK680905
6" PIPE	K7620	K7604	JR67A	JR68A		2	2	2	SK680905
8" PIPE	K7621	K7601	JR90SA	JR100A		2	2	2	SK680905
10" PIPE	K7622	K7600	JR100A	JR120A		2	2	4	SK680905
12" PIPE	K7623	K7543	JR120A	JR120A		2	2	5	B790797

- GENERAL NOTES:
- 1) ALL DRAWINGS SUBMITTED ARE LATEST REVISIONS.
  - 2) FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  - 3) LADDERS FOR GUYED TOWERS ARE TO BE ORIENTED SO THAT THE LADDER RUNGS PARALLEL THE TOWER FACE.
  - 4) AN ADDITIONAL 10 FEET OF LADDER IS PROVIDED WITH ALL TOWERS 200' AND OVER. LADDER IS TO BE FIELD CUT TO PROPER LENGTH AFTER INSTALLATION.
  - 5) PAIL NUTS ARE PROVIDED WITH ALL BOLTS.
  - 6) THIS DIMENSION MUST BE ADJUSTED TO KEEP THE LADDER SIDE RAIL IN A STRAIGHT LINE AND MAINTAIN 16" ON CENTER RUNG SPACING.
  - 7) IT IS RECOMMENDED A ROBIN-LOC SAFETY DEVICE BE PROVIDED WITH LADDER INSTALLATIONS FOR ADDED CLIMBER SAFETY.

UNESCO-ROBIN

LEG MOUNTED STANDARD LADDER ASSEMBLY

REV. 3/19/80

DATE: 3/19/80

BY: S.E.L.A.D.

CHK: G.S.

SCALE: 1/4" = 1'-0"

PROJECT: 80/90 SERIES

DWG. NO.: D800041 R2







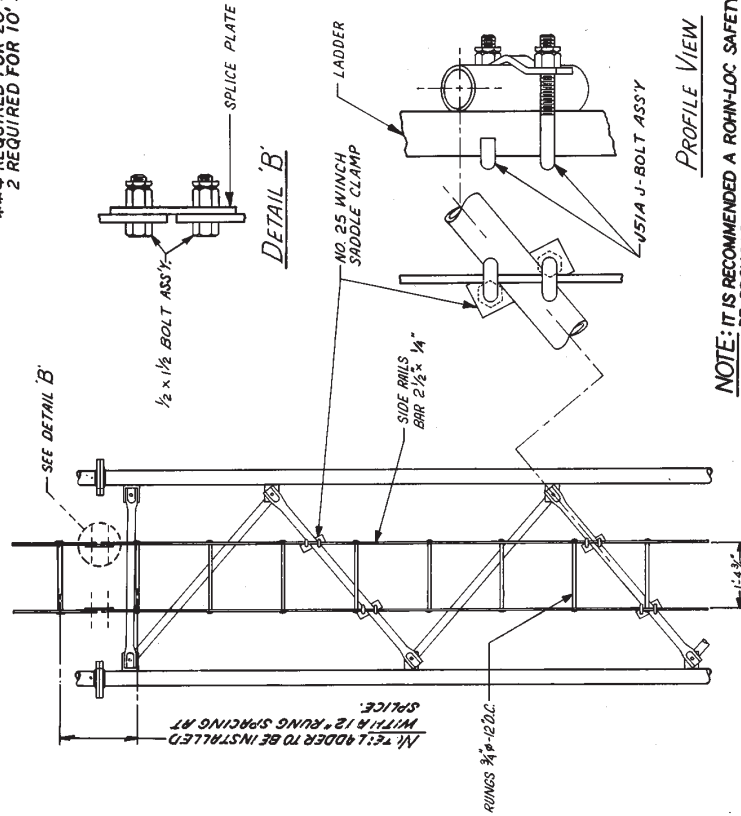
BILL OF MATERIAL		DESCRIPTION		DWG. NO.	
QTY.	PART NO.	DESCRIPTION	DWG. NO.	QTY.	PART NO.
20' SECTION ASSY. NO. HL20FA					
1	HL 162A	LADDER SECTION	SK 711239		
2	KY 96	LADDER SPLICE PLATE	SK 711239		
8	KH 91	NO. 25 WINCH SADDLE CLAMP	B770274		
4	Z100186A	1/2" X 1/2" BOLT ASS'Y.	C770404		
8	U51A	J-BOLT ASS'Y.	B29 47		
10' SECTION ASSY. NO. HL10FA					
1	HL 161A	LADDER SECTION	SK 711239		
2	KY 96	LADDER SPLICE PLATE	SK 711239		
4	Z100186A	1/2" X 1/2" BOLT ASS'Y.	C770404		
8	U51A	J-BOLT ASS'Y.	B29 47		

**NOTES:**  
 1. LADDER CAN BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.  
 2. QUANTITIES LISTED ARE FOR ONE LADDER SECTION ONLY.  
 3. SPACE CLAMPS & CLIPS AS SHOWN.

**ANGULAR BRACING MOUNTING HARDWARE CHART**

CLIP ASS'Y. PIN**	BRACE SIZE	LADDER CLIP (2 REQ'D) PT. NO.	DWG. NO.	J-BOLT (2 REQ'D) PT. NO.	DWG. NO.
KY695	1 1/2"	H173	B820993	J51A	B29 47
KY695	1 3/4"	H173	B820993	J51A	B29 47
KY695	2"	H173	B820993	J51A	B29 47
KY832	2 1/2"	H173	B820993	J107A	B29 108
KY833	3"	H174	B820993	J107A	B29 108

\*\*4 REQUIRED FOR 20' SECTION;  
 2 REQUIRED FOR 10' SECTION



NOTE: AN ADDITIONAL 10 FEET OF LADDER IS PROVIDED WITH ALL TOWERS 200' & OVER. LADDER TO BE FIELD CUT TO PROPER LENGTH AFTER INSTALLATION.

**SECTION A-A**

NO.	DESCRIPTION	DATE	BY
R3	ADD NOTE	7-1-75	ZAR
R4	ADDED RUNG SPACING NOTE & REVISED SPACER 6-23-83 O/H	12-5-74	RDB
R5	REVISED & REDRAWN	12-5-74	RDB

**ROHN MANUFACTURING**  
 DIVISION OF

**FACE MOUNTED HEAVY LADDER ASSY FOR GUYED TOWERS**

NO.	DESCRIPTION	DATE	BY
R1	ADDED RUNG SPACING NOTE & REVISED SPACER 6-23-83 O/H	12-5-74	RDB
R2	REVISED & REDRAWN	12-5-74	RDB

**ANGULAR BRACING**

NO.	DESCRIPTION	DATE	BY
R3	REMOVED FLAT WASHERS 2500116 FROM ASSY. PINS	5-23-83	RDB
R4	ADDED LADDER CLIP ASSY. PIN'S	4-10-81	WHD
R5	REVISED BILL OF MATERIALS	1-27-98	WHD
R6	REVISE R5 NOTE	1-25-17	WHD

**TUBULAR BRACING**

NO.	DESCRIPTION	DATE	BY
R1	ADDED ROHN-LOC NOTE	1-30-88	JLJ
R2	REV. LAD. CLIP, WERE H51H56, H80, H119, H84R262DONG	12-2-84	RDB

NOTE: IT IS RECOMMENDED A ROHN-LOC SAFETY DEVICE BE PROVIDED WITH LADDER INSTALLATIONS FOR ADDED CLIMBER SAFETY.

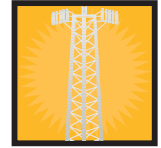


# SELF-SUPPORTING TOWERS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY





## SELF-SUPPORTING TOWERS

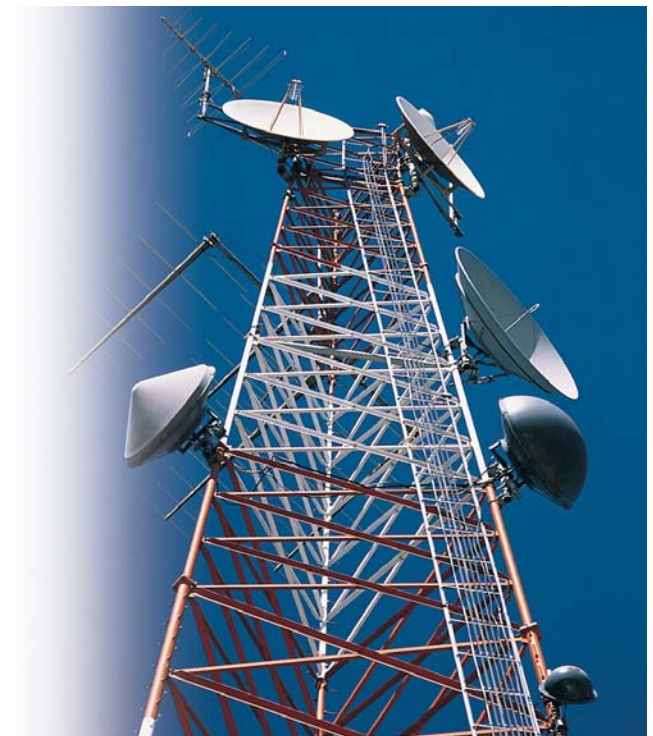
### TIME TESTED STRENGTH AND DESIGN

The ROHN SSV Series of Self-Supporting Towers provide an excellent strength to cost ratio proven by years of use. In production over 20 years, the SSV has evolved into a highly efficient and wide ranging system of custom towers produced from pre-engineered sections.

### WORLDWIDE MULTIPLE USES



SSV towers are in use Worldwide for two way communications, microwave, cellular, PCS, public safety, broadcast, STL, surveillance camera mounts, solar power stations, weather stations and even high level lighting of sports stadiums.





## UNMATCHED ATTENTION TO DETAIL

Backed by one of the largest manufacturers of communications towers in the world, ROHN Self-Supporting Towers are produced with unmatched attention to detail. As with all ROHN products, SSV Towers are Hot Dip Galvanized after fabrication to assure years of corrosion free use. In this process each section of the tower is totally immersed in molten zinc, allowing every square inch of the tower, inside and out, to be completely covered. Hot Dip Galvanizing protects all points of welding and construction against rust and corrosion while providing an attractive finish.

SSV Structures are available with a wide variety of pre-designed accessories including platforms, antenna mounts, ladders, lighting accessories, mounts, ice shields and safety climbing devices. Most SSV sections use angle steel cross bracing, with lighter upper sections using a Zig-Zag ® brace pattern. SSV sections can be combined with "K" braced SSMW tower sections for added height and strength when needed.







## SSV TOWER FEATURES:

- Time tested design
- Tubular or solid steel leg design
- For applications to 300 feet
- Custom designs from pre-engineered sections
- Available with a free 20 year warranty
- All parts Hot Dip Galvanized after fabrication

Standard SSV Towers are available for applications not requiring site specific engineering analysis. See inside section for details.





Products

# SSV TOWER



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

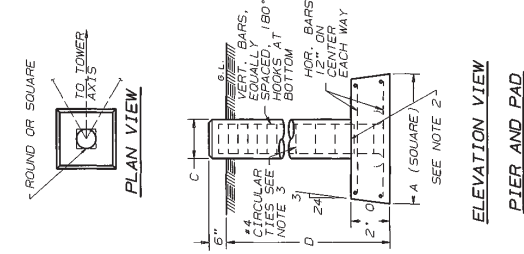
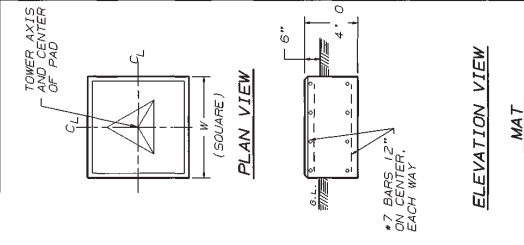
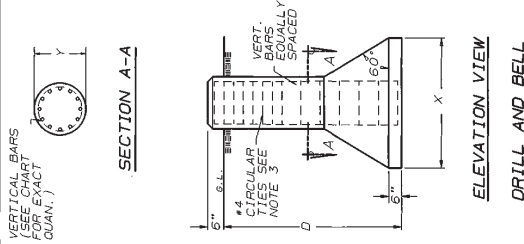
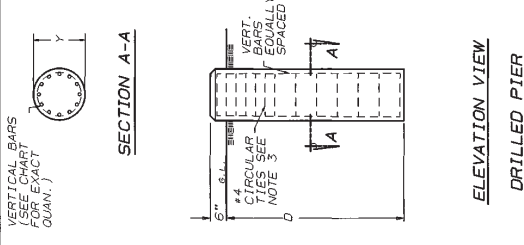
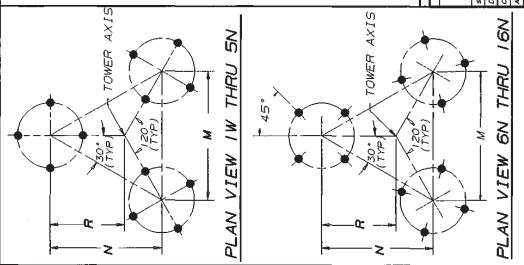
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TOWER SECT. NO.	ALLOW. LOAD (POUNDS)	ANCHOR BOLT DATA				PIER AND PAD			MAT			DRILL AND BELL			DRILLED PIER					
		ALLOW. LOAD (POUNDS)	SIZE OF BOLT	PROJ. INCHES	PROJ. INCHES	VERT. BARS	HOR. BARS	REQ'D CONC. (CU YDS. 3 FNS)	REQ'D CONC. (CU YDS. 3 FNS)	W	REQ'D CONC. (CU YDS. 3 FNS)	VERT. BARS	D	X	Y	REQ'D CONC. (CU YDS. 3 FNS)	VERT. BARS	D	Y	
1W	4,530	1.2	1" 0 1/8	0" 8 1/16	2 21/32					4' 0	2.4									
2W	11,200	1.6	1" 3 9/16	0" 10 3/8	2 21/32					5' 6	4.5									
3W	19,600	1.10	1" 7 1/16	0" 10 11/16	3 1/2					6' 9	6.6									
4N	26,000	2.2	1" 10 1/2	1" 3	4 1/4					8' 9	11.3									
5N	36,000	2.2	1" 5 5/16	5/8	4 1/4					10' 3	15.6									
6N	33,730	4.000	2" 7 5/16	5/8M2	4 15/16	3 1/2				11' 6	19.6									
7N	33,730	4.000	3" 9 1/2	5/8M2	4 15/16	3 1/2				14' 3	30.1									
8N	52,530	6.000	4" 11 5/16	5/8M2	4 15/16	3 1/2				16' 0	37.9									
9N	43,600	7.500	6" 1 3/4	5/8M2	4 15/16	3 1/2				18' 3	49.3									
10N	43,600	10.000	12" 7 1/4	10" 11	5 21/32	4				12' 0	5" 0	2" 6	10 #6							
11N	64,930	10.000	14" 7 7/8	12" 8 5/16	7 1/16	5				12' 0	5" 0	2" 6	10 #6							
12N	63,600	10.000	16" 8 3/8	14" 5 1/2	7 1/16	5				12' 6	5" 6	2" 6	10 #6							
13N	82,930	10.000	18" 8 3/8	16" 2 5/16	7 1/16	5				12' 6	5" 6	2" 6	10 #6							
14N	82,930	10.000	20" 9 3/8	17" 11 5/16	9 1/2	5 1/2				14' 0	7" 0	3" 0	12 #7							
15N	129,330	15.000	24" 9 3/8	21" 5 9/16	14" 3 11/16	14" 3 11/16				14' 0	7" 0	3" 0	12 #7							
16N	129,330	15.000	24" 9 3/8	21" 5 9/16	14" 3 11/16	14" 3 11/16				14' 0	7" 0	3" 0	12 #7							

**GENERAL NOTES**

- FOR REQUIRED MATERIAL SPECIFICATIONS, SEE DRAWING NUMBER B641,500
- ROUGHEN CONSTRUCTION JOINT TO A FULL AMPLITUDE OF 1/4 INCH.
- CENTERS FOR TOP 4 FEET AND 12 INCH CENTERS FROM 4 FEET TO BOTTOM, WITH 22 INCH LAPS.
- FOR MATERIAL AND SELLING DETAILS SEE DRAWING NUMBER C4730104.

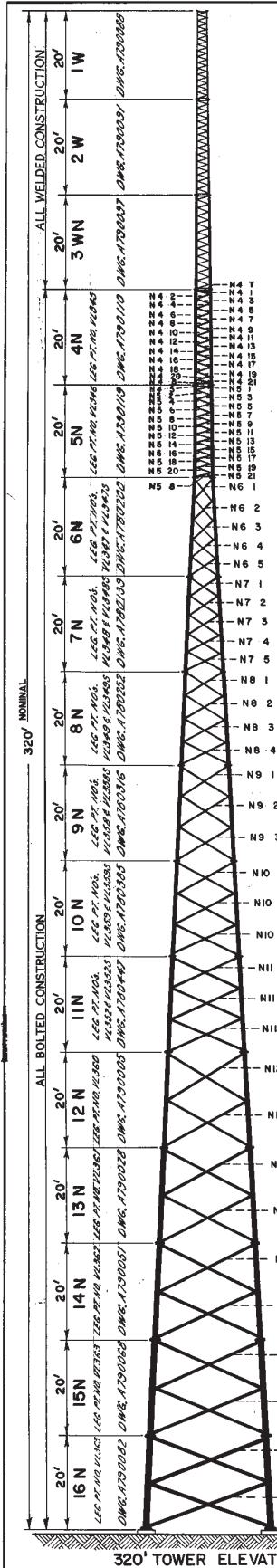


REV.	NO.	DATE	BY	CHKD.	APP.
1	1	10/1/04	...	...	...

STANDARD FOUNDATIONS  
MODEL SSV TOWERS N SERIES

ROHN

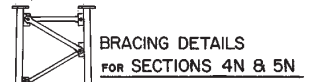




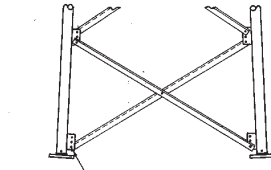
### TOWER SCHEDULE

SECTION NO.	SPREAD DIMENSION		TOWER LEGS 50 KSI YIELD STR.	TOWER BRACES MIN. 33 KSI YIELD STR.	FLANGE PLATES		FLANGE BOLTS	BRACE BOLTS
	UPPER	LOWER			TOP	BOTTOM		
1W	1'-2"	1'-2"	3/8" Ø SOLID	3/8" Ø SOLID	3 X 3 X 3/8 2 1/2" B.C.	3 X 3 X 3/8 2 1/2" B.C.	12-3/8 X 1 1/2	NONE
2W	1'-2"	1'-6"	3/8" Ø SOLID	3/8" Ø SOLID	3 X 3 X 3/8 2 1/2" B.C.	3 X 3 X 3/8 2 1/2" B.C.	12-3/8 X 1 1/2	NONE
3WN	1'-6"	1'-10"	15/16" Ø SOLID	7/8" Ø SOLID	3 X 3 X 3/8 2 1/2" B.C.	4 X 4 X 1/2 3 1/2" B.C.	12-1/2 X 2"	NONE
4N	1'-10"	2'-2"	1 1/4" Ø SOLID	5/8" Ø SOLID	4 X 4 X 1/2 3 1/2" B.C.	4 1/2 X 4 1/2 4 1/4" B.C.	12-5/8 X 2 1/2	72-3/8 X 1 1/2
5N	2'-2"	2'-6"	1 1/8" Ø SOLID	5/8" Ø SOLID	4 1/2 X 4 1/2 4 1/4" B.C.	4 1/2 X 4 1/2 4 1/4" B.C.	12-5/8 X 2 1/2	72-3/8 X 1 1/2
6N	2'-6"	4'-6 1/4"	2" Ø PIPE	∠ 1 1/2 X 1 1/2 X 1/8	4 1/2 X 4 1/2 4 1/4" B.C.	5 X 5 X 3/4 4 9/16" B.C.	12-5/8 X 2 1/2	75-1/2 X 1 1/4
7N	4'-6 1/4"	6'-6 3/4"	2" Ø PIPE	∠ 1 1/2 X 1 1/2 X 1/8	5 X 5 X 3/4 4 9/16" B.C.	5 X 5 X 3/4 4 9/16" B.C.	12-5/8 X 2 1/2	75-1/2 X 1 1/4
8N	6'-6 3/4"	8'-6 3/4"	2 1/2" Ø PIPE	∠ 1 1/2 X 1 1/2 X 1/8	5 X 5 X 3/4 4 9/16" B.C.	5 X 5 X 3/4 4 9/16" B.C.	12-5/8 X 2 1/2	60-1/2 X 1 1/4
9N	8'-6 3/4"	10'-6 3/4"	2 1/2" Ø PIPE	∠ 1 3/4 X 1 3/4 X 1/8	5 X 5 X 3/4 4 9/16" B.C.	5 X 5 X 3/4 4 9/16" B.C.	12-5/8 X 2 1/2	45-1/2 X 1 1/4
10N	10'-6 3/4"	12'-7 1/4"	2 1/2" Ø PIPE	∠ 2 X 2 X 1/8	5 X 5 X 3/4 4 9/16" B.C.	6 X 6 X 3/4 5 7/8" B.C.	12-3/4 X 2 3/4	45-1/2 X 1 1/4
11N	12'-7 1/4"	14'-7 7/8"	3" Ø PIPE	∠ 2 1/2 X 2 1/2 X 3/16	6 X 6 X 3/4 5 7/8" B.C.	7 X 7 X 1/2 7 1/16" B.C.	12-7/8 X 3 1/2	45-1/2 X 1 1/4
12N	14'-7 7/8"	16'-8 3/8"	3 1/2" Ø PIPE	∠ 3 X 3 X 3/16	7 X 7 X 1/2 7 1/16" B.C.	7 X 7 X 1/2 7 1/16" B.C.	12-7/8 X 3 1/2	30-5/8 X 1 1/2
13N	16'-8 3/8"	18'-8 3/8"	4" Ø PIPE	∠ 3 X 3 X 3/16	7 X 7 X 1/2 7 1/16" B.C.	7 X 7 X 1/2 7 1/16" B.C.	12-7/8 X 3 1/2	30-5/8 X 1 1/2
14N	18'-8 3/8"	20'-9 3/8"	4" Ø PIPE	∠ 3 1/2 X 3 1/2 X 1/4	7 X 7 X 1/2 7 1/16" B.C.	9 1/2 X 9 1/2 X 1/4 9/2" B.C.	12-1 X 4 1/4	30-5/8 X 1 1/4
15N	20'-9 3/8"	22'-9 3/8"	5" Ø PIPE	∠ 4 X 4 X 1/4	9 1/2 X 9 1/2 X 1/4 9/2" B.C.	9 1/2 X 9 1/2 X 1/4 9/2" B.C.	12-1 X 4 1/4	30-5/8 X 1 1/4
16N	22'-9 3/8"	24'-9 3/8"	5" Ø PIPE	∠ 4 X 4 X 1/4	9 1/2 X 9 1/2 X 1/4 9/2" B.C.	9 1/2 X 9 1/2 X 1/4 9/2" B.C.	12-1 X 4 1/4	30-5/8 X 1 1/4

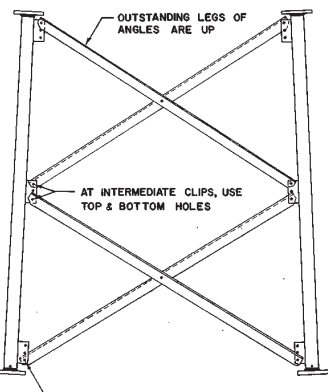
\* ASTERISK INDICATES THAT THE BOTTOM FLANGE P. OF THAT SECTION IS OFFSET.  
 \*\* A325 (3/8" DIA. BOLTS S.A.E. GRADE 5)



AT INTERMEDIATE CLIPS USE TOP & BOTTOM HOLES (TYPICAL FOR SECS 6N-11N)



AT END CLIPS, USE HOLE NEAREST FLANGE PLATE



### WEIGHTS

SEC. NO.	LEGS	BRACES	TOTAL
1W			116
2W			160
3WN			230
4N	260	175	435
5N	345	195	540
6N	290	190	480
7N	300	245	545
8N	426	274	700
9N	420	300	720
10N	430	400	830
11N	570	840	1,410
12N	690	825	1,515
13N	790	910	1,700
14N	645	1,625	2,470
15N	1,155	2,000	3,155
16N	1,155	2,150	3,305

- GENERAL NOTES:
- LEG PART NO. IS STAMPED AT THE BOTTOM OF EACH LEG OF EACH BOLTED SECTION. SECTION NO. IS STAMPED AT BOTTOM OF ONE LEG OF EACH WELDED SECTION.
  - ALL PART NO'S METAL STAMPED BEFORE GALVANIZING.
  - PAL NUTS PROVIDED FOR ALL TOWER BOLTS, SEE DWG. A790135.
  - STEP BOLTS PROVIDED ON ONE LEG FOR SECTIONS 6N THRU 11N, AND STEP BOLTS ON 3 LEGS FOR SECTIONS 12N THRU 16N.
  - ALL TOWER MEMBERS ARE HOT-DIPPED GALVANIZED AFTER FABRICATION.
  - SEE DWG. D.870480 FOR FOUNDATION DETAILS.

NO.	DESCRIPTION	DATE	BY
1	ADDED A325 & REV. NOTES.	3-22-88	...
2	REV. 2-PIECE BRACING TO 1-PIECE.	8-27-88	...
3	REVISED 14N BRACING & BOLT QTY'S.	2-6-89	...
4	ADDED SECTION 15N. DWG. NO. 1.	3/8/91	...
5	REVISED 15N. DWG. NO. 1. ADD LEG PT. NOS.	10/27/93	...
6	CHANGED 14N, 15N, 16N BRACE MAT'L. & WTS.	12-10-78	...
7	FLANGE BOLTS IN SEC. 4N WERE 2 1/2".	2/3/72	...
8	SECT. 3WN WAS 3W	7/6/71	...
9	SECTIONS 4W & 5W REPL. BY 4N & 5N	5/5/71	...

UNARCO-ROHN  
 MODEL SSV TOWER  
 STANDARD SERIES

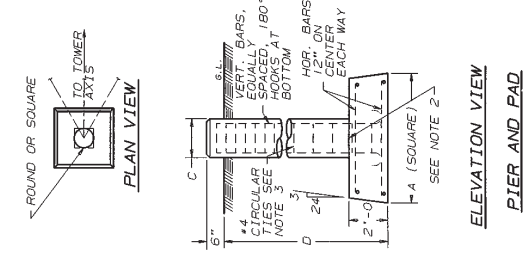
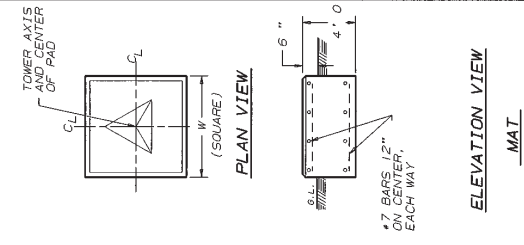
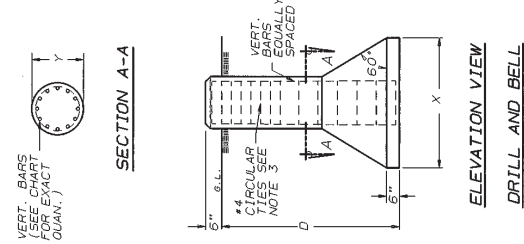
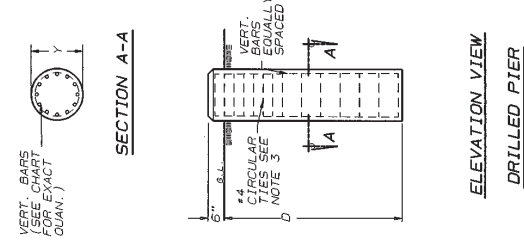
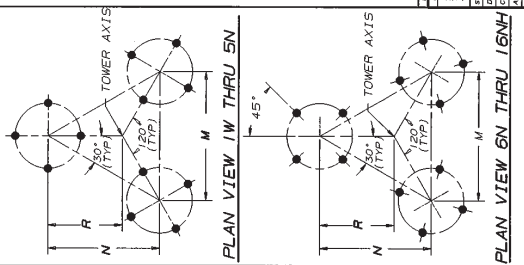
DATE: 8-1-89  
 DRAWN BY: ...  
 CHECKED BY: ...  
 APPROVED BY: ...



TOWER BASE SECT. NO.	ALLOW. SHEAR LEG LOAD (POUNDS PER LEG)	ANCHOR BOLT DATA				PIER AND PAD				MAT	DRILL AND BELL			DRILLED PIER				
		LAYOUT DIMENSIONS		SIZE	DEPT.	VERT. BARS	HOR. BARS	REQ'D CONC. (CU. YDS)	W		D	A	C	D	X	Y	D	Y
1W	4,530	1'-2"	1'-0 1/8"	0'-8 1/16"	2 21/32"													
2W	11,200	1'-6"	1'-3 9/16"	0'-10 3/8"	2 21/32"													
3W	19,600	1'-10"	1'-7 1/16"	1'-0 11/16"	3 1/2"													
4W	28,000	2'-2"	1'-10 1/2"	1'-3 5/8"	4 1/4"													
5W	36,000	2'-6"	2'-2"	1'-5 5/16"	4 1/4"													
6W	33,730	4'-6 1/4"	3'-11"	2'-7 5/16"	5/8x42"													
7W	33,730	4'-0"	3'-9 3/16"	3'-9 1/2"	5/8x42"													
8W	52,530	6'-0"	5'-6 3/4"	4'-11 5/16"	5/8x42"													
9W	54,000	6'-0"	6'-3 3/4"	5'-1 3/4"	5/8x42"													
10W	56,000	6'-0"	6'-3 3/4"	5'-1 3/4"	5/8x42"													
11W	64,930	10,000	14'-7 7/8"	12'-8 5/16"	7/8x60"													
12W	85,600	10,000	16'-8 3/8"	14'-5 1/2"	7/8x60"													
13W	114,100	12,500	18'-8 3/8"	16'-2 5/16"	7/8x60"													
14W	114,100	15,000	20'-9 3/8"	17'-11 15/16"	1x78"													
15W	152,000	15,000	22'-9 3/8"	19'-8 3/4"	1x78"													
16W	152,000	15,000	24'-9 3/8"	21'-5 9/16"	1x78"													

**GENERAL NOTES**

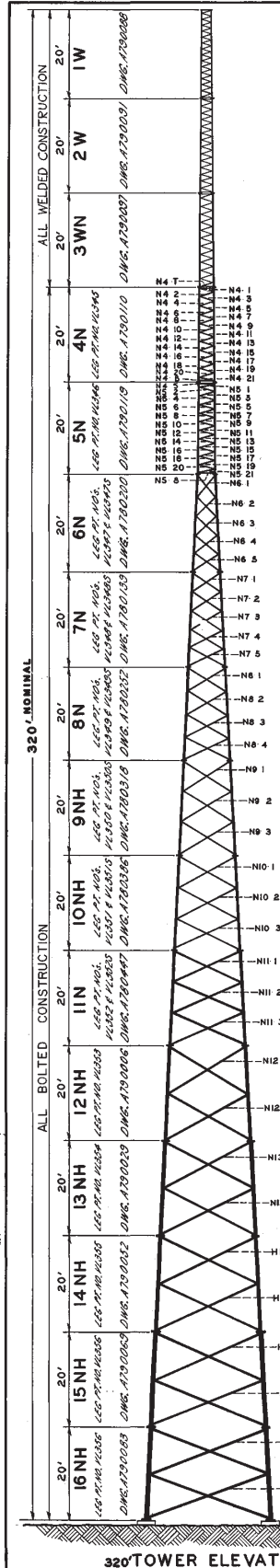
- FOR REQUIRED MATERIAL SPECIFICATIONS, SEE DRAWING NUMBER B941300.
- ROUGHEN CONSTRUCTION JOINT TO A FULL 1/2 INCH.
- CIRCULAR TIES TO BE PLACED ON 3 INCH CENTERS FOR TOP 4 FEET AND 12 INCH CENTERS FROM 4 FEET TO BOTTOM WITH 2 INCH LAP.
- FOR CONSTRUCTION AND BASE DETAILS SEE DRAWING NUMBER C1730104.



REV	DATE	BY	CHKD	APP'D
1	11/14/00	...	...	...
2	11/14/00	...	...	...
3	11/14/00	...	...	...
4	11/14/00	...	...	...
5	11/14/00	...	...	...
6	11/14/00	...	...	...
7	11/14/00	...	...	...
8	11/14/00	...	...	...
9	11/14/00	...	...	...
10	11/14/00	...	...	...
11	11/14/00	...	...	...
12	11/14/00	...	...	...
13	11/14/00	...	...	...
14	11/14/00	...	...	...
15	11/14/00	...	...	...
16	11/14/00	...	...	...
17	11/14/00	...	...	...
18	11/14/00	...	...	...
19	11/14/00	...	...	...
20	11/14/00	...	...	...
21	11/14/00	...	...	...
22	11/14/00	...	...	...
23	11/14/00	...	...	...
24	11/14/00	...	...	...
25	11/14/00	...	...	...
26	11/14/00	...	...	...
27	11/14/00	...	...	...
28	11/14/00	...	...	...
29	11/14/00	...	...	...
30	11/14/00	...	...	...

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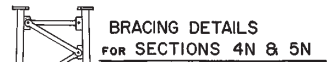
ROHN  
STANDARD FOUNDATIONS  
MODEL SSV TOWERS NH SERIES  
DRAWING NO. D870463-RT



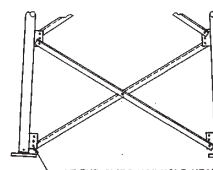
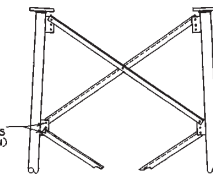
TOWER SCHEDULE										
SECTION NO.	SPREAD DIMENSION		TOWER LEGS 50 KSI YIELD STR.	TOWER BRACES MIN. 33KSI YIELD STR.	FLANGE PLATES		FLANGE BOLTS	BRACE BOLTS	* * *	
	UPPER	LOWER			TOP	BOTTOM				
1W	1'-2"	1'-2"	9/16" SOLID	3/8" SOLID	3 X 3 X 3/8" 2 1/2" B.C.	3 X 3 X 3/8" 2 1/2" B.C.	12-3/8 X 1 1/2"	NONE		
2W	1'-2"	1'-6"	3/4" SOLID	3/8" SOLID	3 X 3 X 3/8" 2 1/2" B.C.	3 X 3 X 3/8" 2 1/2" B.C.	12-3/8 X 1 1/2"	NONE		
3WN	1'-6"	1'-10"	7/16" SOLID	7/16" SOLID	3 X 3 X 3/8" 2 1/2" B.C.	4 X 4 X 1/2" 3 1/2" B.C.	12-1/2 X 2"	NONE		
4N	1'-10"	2'-2"	1 1/4" SOLID	5/8" SOLID	4 X 4 X 1/2" 3 1/2" B.C.	4 1/2 X 4 1/2 X 5/8" 4 1/2" B.C.	12-5/8 X 2 1/4"	72-3/8 X 1 1/2"		
5N	2'-2"	2'-6"	1 1/8" SOLID	5/8" SOLID	4 1/2 X 4 1/2 X 5/8" 4 1/2" B.C.	4 1/2 X 4 1/2 X 5/8" 4 1/2" B.C.	12-5/8 X 2 1/4"	72-3/8 X 1 1/2"		
6N	2'-6"	4'-6 1/4"	2" PIPE	L 1 1/2 X 1 1/2 X 1/8"	4 1/2 X 4 1/2 X 5/8" 4 1/2" B.C.	5 X 5 X 3/4" 4 1/2" B.C.	12-5/8 X 2 1/4"	75-1/2 X 1 1/4"		
7N	4'-6 1/4"	6'-6 3/4"	2" PIPE	L 1 1/2 X 1 1/2 X 1/8"	5 X 5 X 3/4" 4 1/2" B.C.	5 X 5 X 3/4" 4 1/2" B.C.	12-5/8 X 2 1/4"	75-1/2 X 1 1/4"		
8N	6'-6 3/4"	8'-6 3/4"	2 1/2" PIPE	L 1 1/2 X 1 1/2 X 1/8"	5 X 5 X 3/4" 4 1/2" B.C.	5 X 5 X 3/4" 4 1/2" B.C.	12-5/8 X 2 1/4"	60-1/2 X 1 1/4"		
9NH	8'-6 3/4"	10'-6 3/4"	2 1/2" EH PIPE	L 1 1/2 X 1 1/4 X 1/8"	5 X 5 X 3/4" 4 1/2" B.C.	5 X 5 X 3/4" 4 1/2" B.C.	12-5/8 X 2 1/4"	45-1/2 X 1 1/4"		
10NH	10'-6 3/4"	12'-7 1/4"	2 1/2" EH PIPE	L 2 X 2 X 1/8"	5 X 5 X 3/4" 4 1/2" B.C.	6 X 6 X 3/4" 5 1/2" B.C.	12-3/4 X 2 3/4"	45-1/2 X 1 1/4"		
11N	12'-7 1/4"	14'-7 7/8"	3" PIPE	L 2 1/2 X 2 1/2 X 1/16"	6 X 6 X 3/4" 5 1/2" B.C.	7 X 7 X 1" 7 1/8" B.C.	12-7/8 X 3"	45-1/2 X 1 1/4"		
12NH	14'-7 7/8"	16'-8 3/8"	3 1/2" EH PIPE	L 3 X 3 X 3/16"	7 X 7 X 1" 7 1/8" B.C.	7 X 7 X 1" 7 1/8" B.C.	12-7/8 X 3 1/2"	30-5/8 X 1 1/2"		
13NH	16'-8 3/8"	18'-8 3/8"	4" EH PIPE	L 3 X 3 X 3/16"	7 X 7 X 1" 7 1/8" B.C.	7 X 7 X 1" 7 1/8" B.C.	12-7/8 X 3 1/2"	30-5/8 X 1 1/2"		
14NH	18'-8 3/8"	20'-9 3/8"	4" EH PIPE	L 3 1/2 X 3 1/2 X 1/4"	7 X 7 X 1" 7 1/8" B.C.	9 1/2 X 9 1/2 X 1 1/4" 9 1/2" B.C.	12-1 X 4 1/4"	30-5/8 X 1 3/4"		
15NH	20'-9 3/8"	22'-9 3/8"	5" EH PIPE	L 4 X 4 X 1/4"	9 1/2 X 9 1/2 X 1 1/4" 9 1/2" B.C.	9 1/2 X 9 1/2 X 1 1/4" 9 1/2" B.C.	12-1 X 4 1/4"	30-5/8 X 1 3/4"		
16NH	22'-9 3/8"	24'-9 3/8"	5" EH PIPE	L 4 X 4 X 1/4"	9 1/2 X 9 1/2 X 1 1/4" 9 1/2" B.C.	9 1/2 X 9 1/2 X 1 1/4" 9 1/2" B.C.	12-1 X 4 1/4"	30-5/8 X 1 3/4"		

\* ASTERISK INDICATES THAT THE BOTTOM FLANGE # OF THAT SECTION IS OFFSET

\*\* A325 (3/8" DIA. BOLTS S.A.E. GRADE 5)

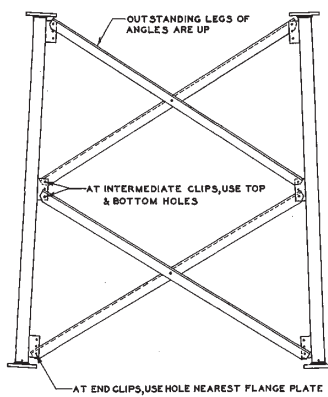


AT INTERMEDIATE CLIPS USE TOP & BOTTOM HOLES (TYPICAL FOR SEC'S 6N-11N)



AT END CLIPS, USE HOLE NEAREST FLANGE PLATE

BRACING DETAIL FOR SECTIONS 6N-11N



AT END CLIPS, USE HOLE NEAREST FLANGE PLATE

BRACING DETAIL FOR SECTIONS 12NH-16NH

WEIGHTS			
SEC. NO.	LEGS	BRACES	TOTAL
1W	-----	-----	116
2W	-----	-----	160
3WN	-----	-----	230
4N	260	175	435
5N	345	195	540
6N	290	190	480
7N	300	245	545
8N	426	274	700
9NH	535	305	840
10NH	545	400	945
11N	570	840	1410
12NH	905	825	1730
13NH	1050	910	1960
14NH	1110	1625	2735
15NH	1530	2000	3530
16NH	1530	2150	3680

GENERAL NOTES:

1. LEG PART NO. IS STAMPED AT THE BOTTOM OF EACH LEG OF EACH BOLTED SECTION. SECTION NO. IS STAMPED AT BOTTOM OF ONE LEG OF EACH WELDED SECTION.
2. ALL PART NO.'S METAL STAMPED BEFORE GALVANIZING.
3. PAL NUTS PROVIDED FOR ALL TOWER BOLTS, SEE DWG. A330155.
4. STEP BOLTS PROVIDED ON ONE LEG FOR SECTIONS 6N THRU 11N, AND STEP BOLTS ON 3 LEGS FOR SECTIONS 12NH THRU 16NH.
5. ALL TOWER MEMBERS ARE HOT-DIPPED GALVANIZED AFTER FABRICATION.
6. SEE DWG. D6 70 483 FOR FOUNDATION DETAILS.

REV.	DESCRIPTION	DATE	BY
R1	CHANGED PERMISSIBLY, VIEW 6N-11N	1-2-36	JKH
R10	REVISED 4N FLANGE PLATE THICKNESS FROM 1/2" TO 3/8"	10-20-36	JKH
R9	ADDED A325 & REV. NOTES	3-2-38	JKH
R8	REV. 2-PIECE BRACING TO 1-PIECE	9-2-38	JKH
R7	REVISED 16NH BRACING & BOLT CUTS	2-6-39	JKH
R6	REVISED 12NH BRACING & BOLT CUTS	1-10-39	JKH
R5	REVISED 6N, 7N, 8N, 9N, 10N, 11N, 12NH, 13NH, 14NH, 15NH, 16NH	6/12/39	JKH
R4	CHANGED 14NH, 15NH, 16NH BRACE MAT'L & WTS	12-10-39	JER
R3	FLANGE BOLTS IN SEC. 6N WERE 2 1/2" LG.	2/3/72	JKH
R2	SECT. 3WN WAS 3W	7/6/71	GWA
R1	SECS. 4W & 5W REPL. BY 4N & 5N	6/5/71	GWA

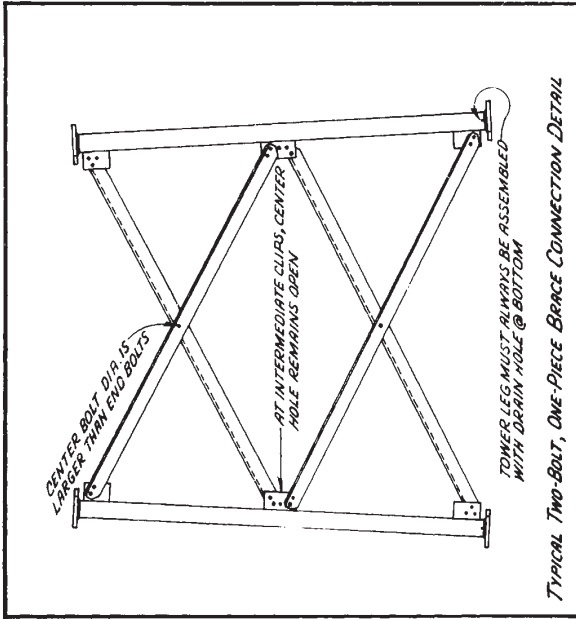
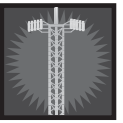
UNARCO-ROHN  
 MODEL S.S.V. TOWER  
 HEAVY SERIES

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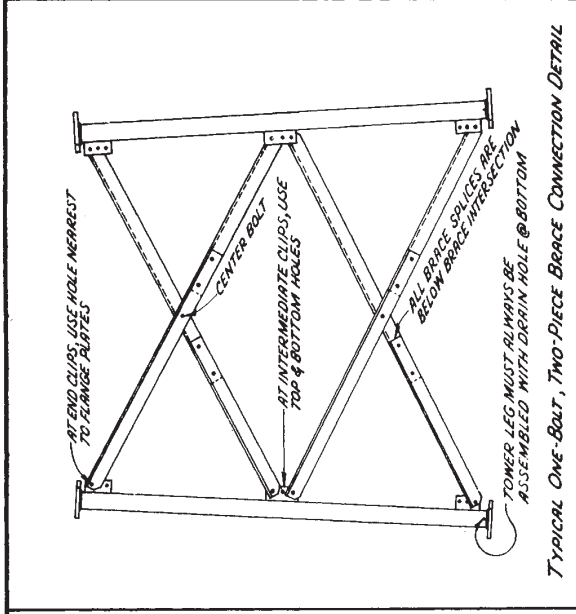
DATE: 1-2-36  
 BY: JKH

SCALE: 1" = 10'-00"  
 SHEET: 680101  
 OF: 680101

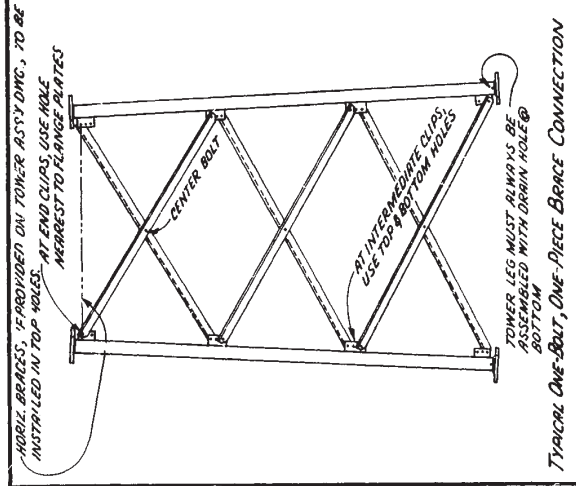
UNARCO-ROHN  
 680101



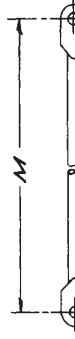
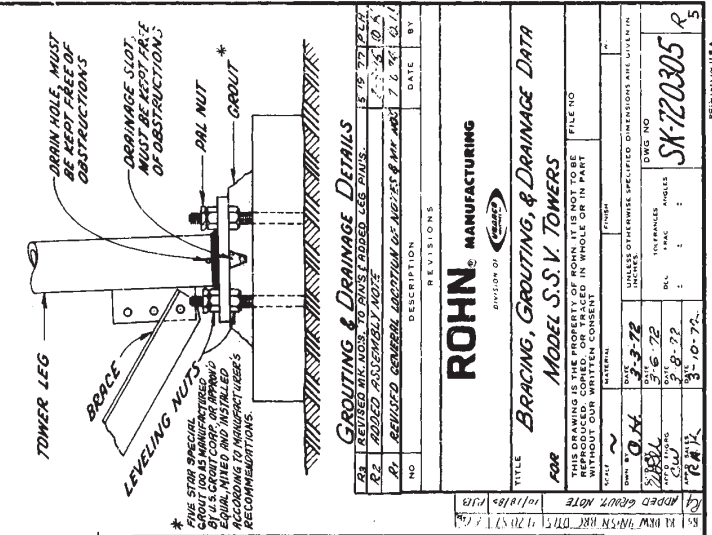
TYPICAL TWO-BOLT, ONE-PIECE BRACE CONNECTION DETAIL



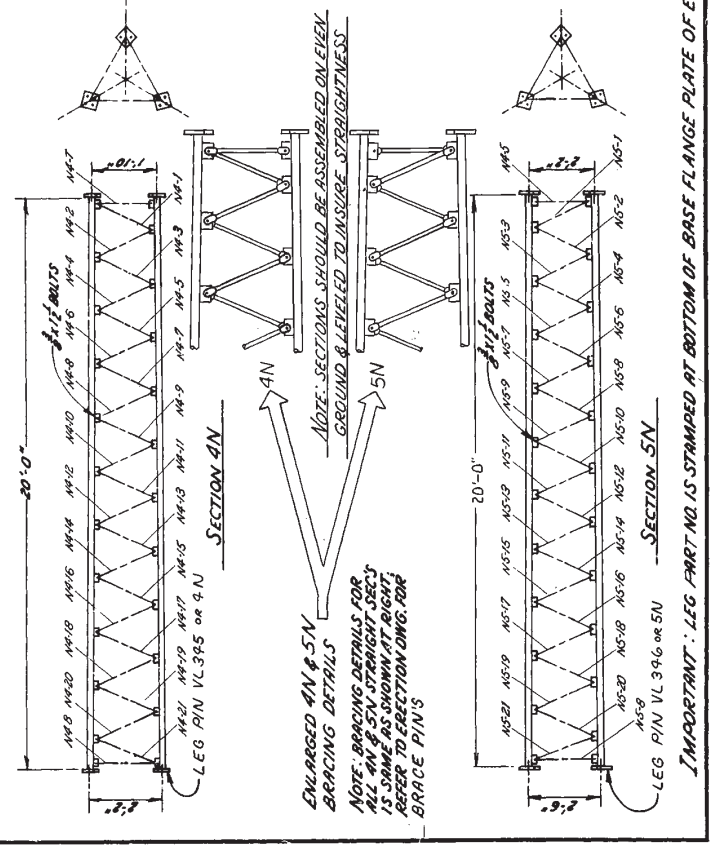
TYPICAL ONE-BOLT, TWO-PIECE BRACE CONNECTION DETAIL



TYPICAL ONE-BOLT, ONE-PIECE BRACE CONNECTION



SECTION 4N		SECTION 5N	
PART NO.	M	PART NO.	M
N4-1	21 3/8"	N5-1	24 3/8"
N4-2	21 1/8"	N5-2	25 1/4"
N4-3	22 1/8"	N5-3	25 3/8"
N4-4	22 1/4"	N5-4	25 3/8"
N4-5	22 3/8"	N5-5	25 3/8"
N4-6	22 3/4"	N5-6	26 1/8"
N4-7	22 7/8"	N5-7	26 1/4"
N4-8	23 1/8"	N5-8	26 3/8"
N4-9	23 3/8"	N5-9	26 3/4"
N4-10	23 7/8"	N5-10	27 1/8"
N4-11	23 7/8"	N5-11	27 1/8"
N4-12	23 7/8"	N5-12	27 1/8"
N4-13	23 7/8"	N5-13	27 1/8"
N4-14	24 1/8"	N5-14	27 3/8"
N4-15	24 1/8"	N5-15	27 3/8"
N4-16	24 3/8"	N5-16	27 3/8"
N4-17	24 3/8"	N5-17	27 3/8"
N4-18	24 3/8"	N5-18	28"
N4-19	24 3/8"	N5-19	28 1/8"
N4-20	24 3/8"	N5-20	28 1/8"
N4-21	24 3/8"	N5-21	28 1/2"
N4-22	24 3/8"	N5-22	28 1/2"



IMPORTANT: LEG PART NO. IS STAMPED AT BOTTOM OF BASE FLANGE PLATE OF EACH SECTION LEG.

**ROHN® MANUFACTURING**  
DIVISION OF **CEMENT**

**BRACING, GROUTING, & DRAINAGE DATA**  
FOR **MODEL S.S.V. TOWERS**

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED TO ADD TO BASE DRAINAGE LEGS	11-16-72	W.S.
R2	ADDED ASSEMBLY NOSE	1-10-73	W.S.
R3	REVISED GENERAL BRACING OF 4N & 5N	7-1-73	W.S.

DATE: 3-10-75

FILE NO: SK-720305 R 5

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES

SCALE: 3/8" = 1'-0"

DATE: 3-10-75

BY: W.S.

CHKD: W.S.

APP'D: W.S.

REVISED TO ADD TO BASE DRAINAGE LEGS

ADDED ASSEMBLY NOSE

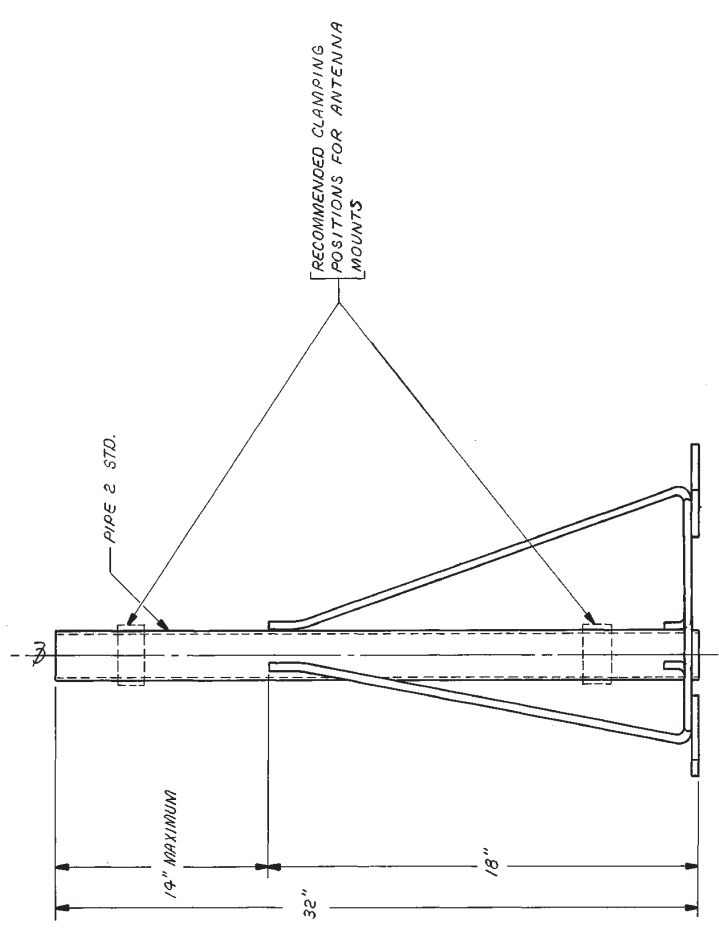
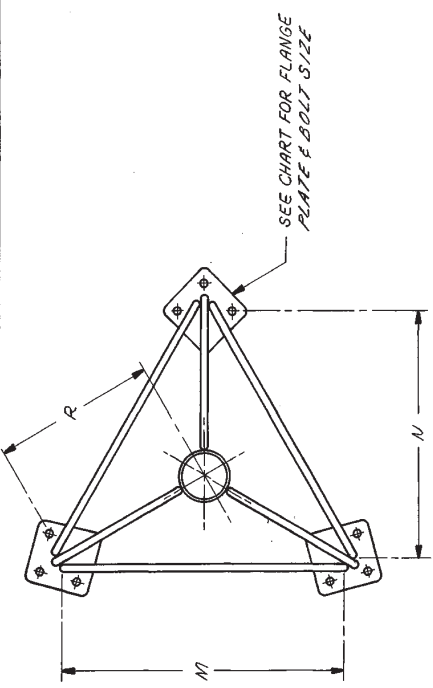
REVISED GENERAL BRACING OF 4N & 5N





**TAPERED TOP ASSY. BILL OF MATERIAL & DETAIL**

ASSY. NO.	TOWER SEC. NO.	TAPERED TOP QUANTITY	M	N	R	FLANGE R SIZE	FLANGE BOLT QUANTITY	FLANGE BOLT SIZE	PL. NO.
1TT	1/177A	1	1'-2"	1'-0 1/2"	0'-8 1/2"	3 x 3 x 3/8	9	5/8 x 1 1/2	21000262A
3TT	3/377A	1	1'-6"	1'-3 3/8"	0'-10 3/8"	3 x 3 x 3/8	9	5/8 x 1 1/2	21000262A
4TT	4/477A	1	1'-10"	1'-7 1/4"	1'-0 1/4"	4 x 4 x 1/2	9	1/2 x 2	21002062A
5TT	5/577A	1	2'-2"	1'-10 1/2"	1'-3"	4 1/2 x 4 1/2 x 5/8	9	5/8 x 2 1/2	21002262A
6TT	6/677A	1	2'-6"	2'-2"	1'-5 3/4"	4 1/2 x 4 1/2 x 5/8	9	5/8 x 2 1/2	21002262A



WELDED CONSTRUCTION

DESIGN BASED ON THRUST OF 500# @ CLAMPING POSITION

**TAPERED TOP DETAILS**

R10	REMOVED APPL SECTIONS	9-28-88	MDI
R9	REVISED BSTD. NOTES	3-22-88	MDI
R8	REVISED BILL OF MATERIAL	8-27-80	KYL
R7	UPDATE DWG.	2/27/79	MDI

**REDRAWN** 1-3-77 MDI  
 No. A Revision Description  
 1-3-77 MDI  
 1-4-77 MDI

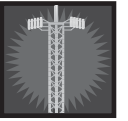
**Unarco-Rohn**  
 Division of Unarco Industries, Inc.

**SUPPORT TUBE DETAILS FOR S. S. V. TOWERS**

Scale: NONE  
 Drawn by: MDI 1-3-77  
 Checked by: MDI 1-4-77  
 Approved by Engineering: MDI 1-5-77  
 Approved by Production: MDI 1-5-77  
 Approved by Sales: MDI 1-4-77

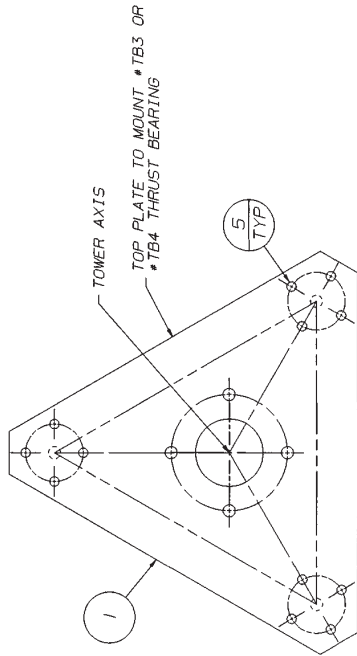
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Drawing Number: SK 670907R10

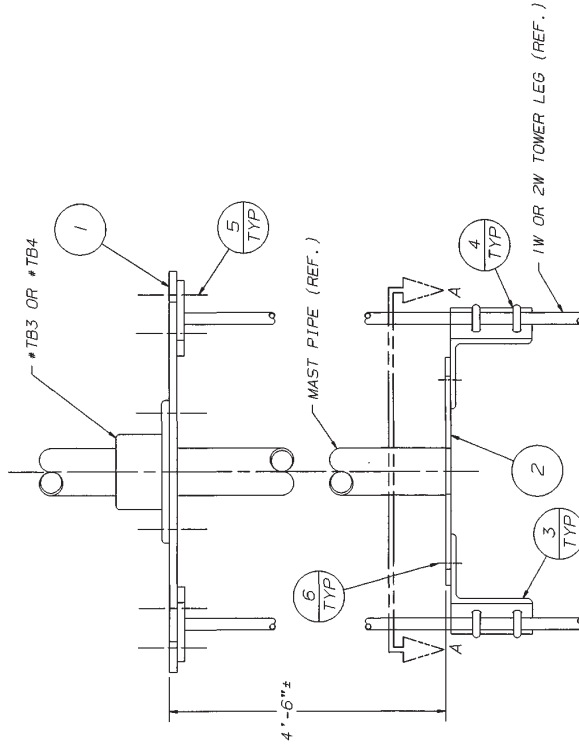


BILL OF MATERIAL				
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	1	VU476	TOP PLATE	B942446
2	1	VU477	ROTOR PLATE	C941620
3	3	VU478	ANGLE BRACKET	B942436
4	6	JR67A	U-BOLT ASSY	B651028
5	12	2100086A	3/8" X 1-1/2" BOLT ASSY	C770404
6	3	2100076AW	3/8" X 1-3/8" BOLT ASSY W/WASHERS	C770404

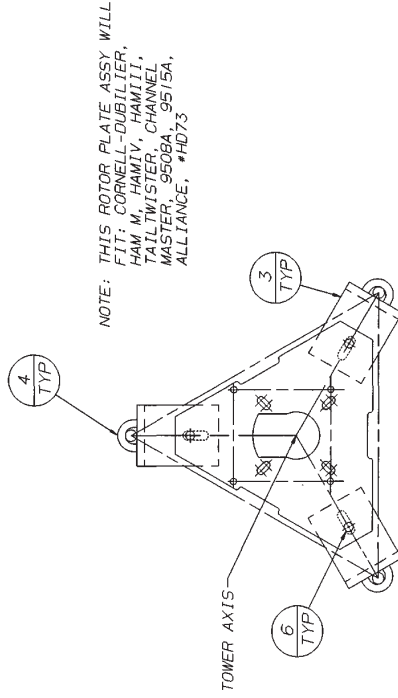
NOTE: FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.



PLAN



ELEVATION



NOTE: THIS ROTOR PLATE ASSY WILL FIT: CORNELL-DUBILLIER, HAM M, HAMLY, HAMILTI, FAULTWISTER, CHANNEL MASTER, 9508A, 9515A, ALLIANCE, #HD73

VIEW A-A  
ASSY P/N: VU479A

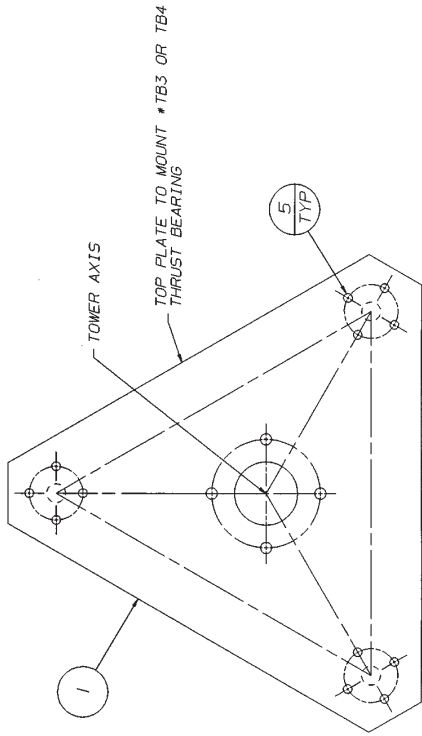
No. <u>1</u> Revision Description		Date <u>12/27/94</u> Rev. By <u>CRJ</u> App. By <u>SRH</u>
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.		
<b>ROHN</b>		
Title:		ROTOR PLATE ASSEMBLY FOR 1W AND 2W
Scale: NONE	By: SRH	Date: 12/27/94
Drawn: SRH	Checked: WMM	2-21-95
App. Eng.: JX	App. Engr.: JX	2-22-95
App. Sales: JX	App. Sales: JX	2-22-95
ENS. FILE:		DRAWING NO.: C941612



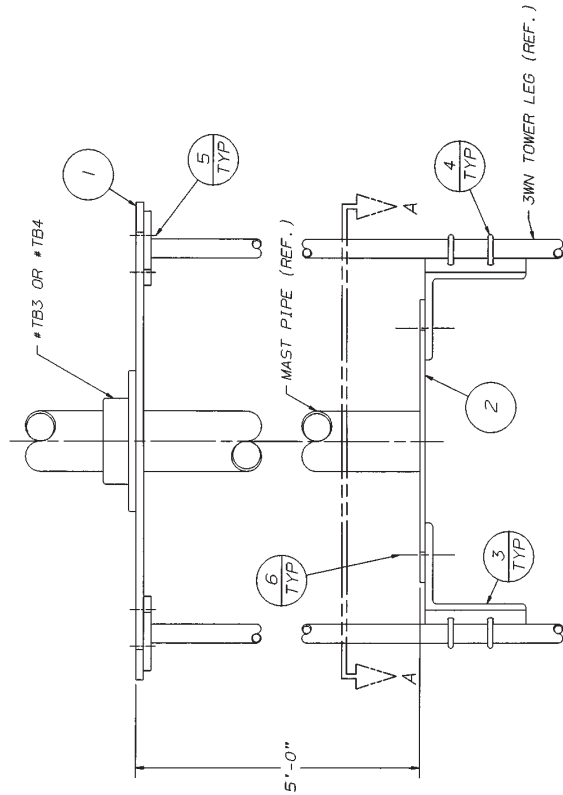


BILL OF MATERIAL				
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	1	VU111	TOP PLATE	8781304
2	1	VU112	ROTOR PLATE	C781604
3	3	VU113	ANGLE BRACKET	B680816
4	6	JRA1A	U-BOLT ASSY.	B651028
5	12	2100086A	3/8" X 1-1/2" BOLT ASSY.	C770404
6	3	2100076AW	3/8" X 1-3/8" BOLT ASSY. W/WASHERS	C770404

NOTE: FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.

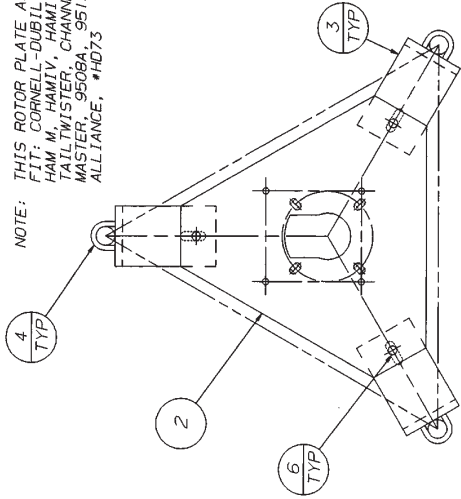


PLAN



ELEVATION

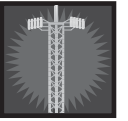
NOTE: THIS ROTOR PLATE ASSY WILL FIT: CORNELL-DUBILIER, HAM M, HAMIV, HAMIII, TAILTWISTER, CHANNEL MASTER, 9508A, 9515A, ALLIANCE, \*HD73



VIEW A-A

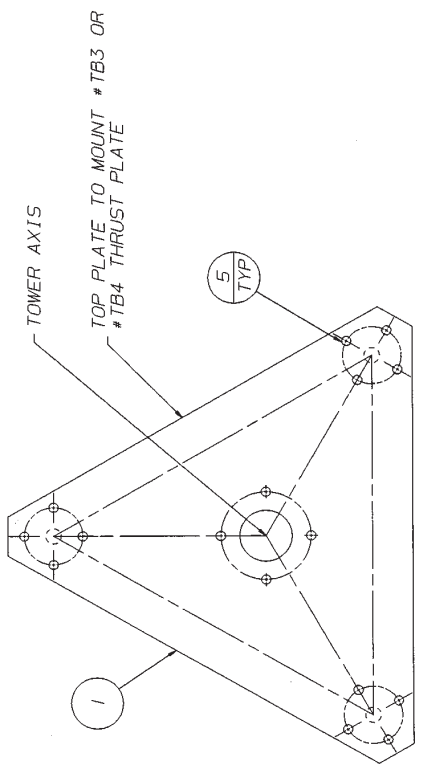
ASSY P/N: VU474A

No. Revision Description		Date		Rev. By		Appr. By	
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Scale: NONE		By: SRH	Date: 2/4/95	Title: <b>ROHN</b>			
Drawn: vjw		Checked: vjw		2-17-95		ROTOR PLATE ASSEMBLY FOR 3WN	
App. Eng.: JS		2-22-95		2-21-95		DRAWING NO.: 0941500	
App. Supt.: DL						ENG. FILE:	

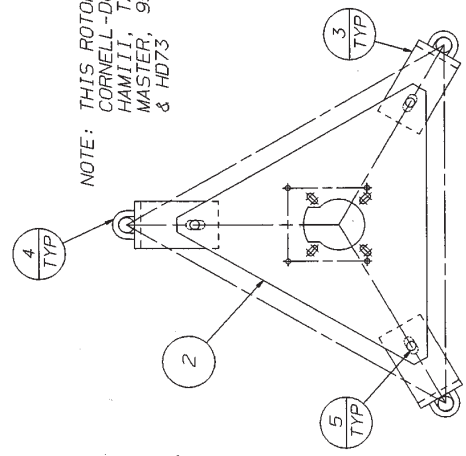


BILL OF MATERIAL			ASSY P/N: VUI40	
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	1	VU92	TOP PLATE	B770497
2	1	VU137	ROTOR PLATE	C791322
3	3	VU138	ANGLE BRACKET	B790928
4	6	JR67A	1/2" BOLT ASSY	B651028
5	15	2100196A	1/2" X 1-3/4" BOLT ASSY	C770404
6	3	2500116	1/2" WASHER	N/A

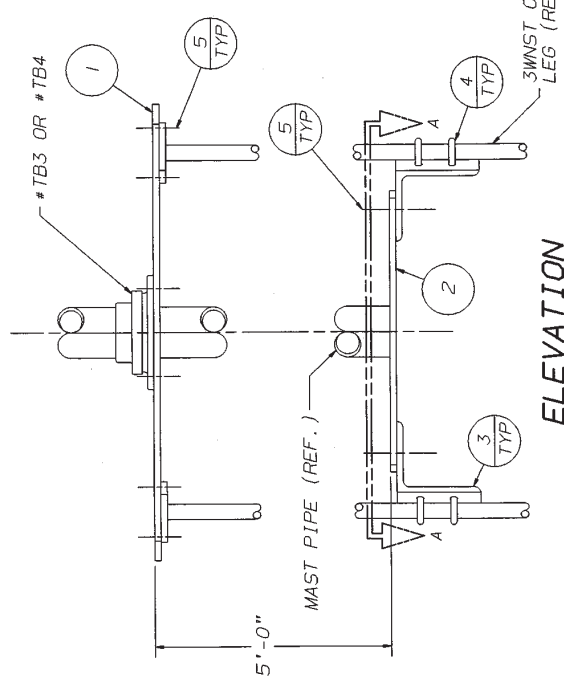
NOTE: FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.



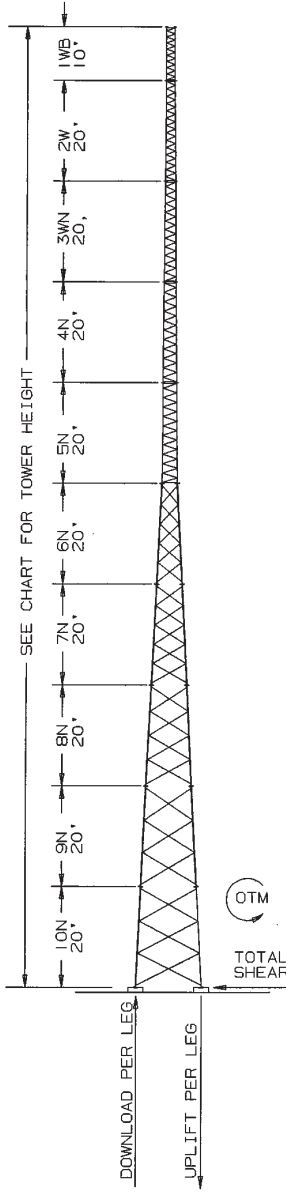
NOTE: THIS ROTOR PLATE ASSY WILL FIT CORNELL-DUBILIER, HAM M, HAMIV, HAMIII, TAILTWISTER, CHANNEL MASTER, 9508A, 9515A, ALLIANCE, & HD73



VIEW A-A  
ASSY P/N: VUI40



RL REDRAWN & DELETED TB3 FROM B.O.M. No. Revision Description 1/26/99 SRH WAW LVS Date Rev By Chk By App By	<b>ROHN</b>  ROTOR PLATE ASSY FOR 3WNST OR 3WNB
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Scale: NONE Drawn: KTL 11/14/79 Checked: JHD 12/5/79 App. Eng.: JS 12/6/79 App. Svc.: JC 12/6/79	Title: ROTOR PLATE ASSY FOR 3WNST OR 3WNB
DRAWING NO.: C791323R1	



ELEVATION

TOWER ASSEMBLY NUMBER	TOWER HEIGHT (FEET)	TOP SECTION	BASE SECTION		ALLOWABLE PROJECTED AREA (SQ. FT.)		BASE REACTIONS				
			* A-BOLTS PART NO. 12 REQ'D	FACE SPREAD	TOWER TOP ROUNDS OR FLATS	30 FEET BELOW TOP ROUNDS OR FLATS	DOWNLOAD (POUNDS)	UPLIFT (POUNDS)	TOTAL SHEAR (POUNDS)	OTM (FOOT POUNDS)	
SS040D70	40	2W	SB3	1' 10	16.7	10.0	20.0	14,300	13,500	970	22,000
SS050D70	50	1WB	SB3	1' 10	15.0	9.0	18.3	19,200	18,400	970	29,700
SS060D70	60	2W	SB4	2' 2	15.0	9.0	18.3	23,000	21,900	1,110	42,100
SS070D70	70	1WB	SB4	2' 2	13.3	8.0	16.7	27,300	26,100	1,130	50,000
SS080D70	80	2W	SB5	2' 6	13.3	8.0	16.7	31,600	30,100	1,320	66,500
SS090D70	90	1WB	SB5	2' 6	11.7	7.0	15.0	35,200	33,600	1,330	74,200
SS100D70	100	2W	5/8X42AB	4' 6 1/4	11.7	7.0	15.0	26,000	24,100	1,950	97,900
SS110D70	110	1WB	5/8X42AB	4' 6 1/4	10.0	6.0	14.2	28,200	26,200	1,870	106,300
SS120D70	120	2W	5/8X42AB	6' 3/4	10.0	6.0	14.2	26,300	24,000	2,510	141,700
SS130D70	130	1WB	5/8X42AB	6' 3/4	9.2	5.5	13.3	28,300	25,900	2,540	152,600
SS140D70	140	2W	5/8X42AB	8' 6 3/4	9.2	5.5	13.3	29,200	26,300	3,310	204,100
SS150D70	150	1WB	5/8X42AB	8' 6 3/4	8.3	5.0	12.5	30,800	27,600	3,340	215,300
SS160D70	160	2W	5/8X42AB	10' 6 3/4	8.3	5.0	12.5	33,300	29,900	4,230	286,400
SS170D70	170	1WB	5/8X42AB	10' 6 3/4	7.5	4.5	12.5	34,900	31,500	4,280	301,000
SS180D70	180	2W	3/4X48AB	12' 7 1/4	7.5	4.5	12.5	38,500	34,500	5,350	395,700
SS190D70	190	1WB	3/4X48AB	12' 7 1/4	6.7	4.0	11.7	39,700	35,600	5,380	407,700

\* ANCHOR BOLTS OR BASE PART NO.

GENERAL NOTES

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/EIA-222-E-1991 (NO ICE).
- EQUIVALENT FLAT-PLATE ANTENNA AREAS BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
- TOWER DESIGNS ASSUME ALLOWABLE PROJECTED AREAS ARE SYMMETRICALLY PLACED ON THE TOWER.
- DESIGNS ASSUME ONE 7/8 LINE TO TOP AND TWO 7/8 LINES TO 30 FEET BELOW TOP, ONE PER FACE.
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
- TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
- INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- FOR SECTION ASSEMBLY DETAILS AND PART NUMBERS SEE DRAWING E690800.
- FOR ADDITIONAL BRACING, GROUTING AND DRAINAGE DETAILS SEE DRAWING SK720305.
- FOR TAPERED TOP DETAILS SEE DRAWING SK670407.
- ALL TOWERS PROVIDED WITH (P/N ITT) TAPERED TOP.
- FOR STEP BOLT DETAILS SEE DRAWING B651264.
- FOR FOUNDATION DETAILS SEE DRAWING D870480.

RI REV. NOTE	I WAS - EIA-222-D	11-1-99	RWB	11/2	73
No. 1	Revision Description	Date	Rev. By	Ord. By	Appr. By
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, IN PART OR WHOLE, WITHOUT OUR WRITTEN CONSENT.					
Scale: NONE	By: WDU	Date: 9-2-87	Title: R O H N		
Drawn: GPM	Checked: GPM	9-30-87	40' TO 190' MODEL SSV TOWERS		
App. Eng.: RAM	App. Eng.: RAM	9-30-87	70 MPH WIND SPEEDS ANS1/EIA-222-E		
App. Stress: AE	App. Stress: AE	2-12-88	DRAWING NO.: CB70698 RI		



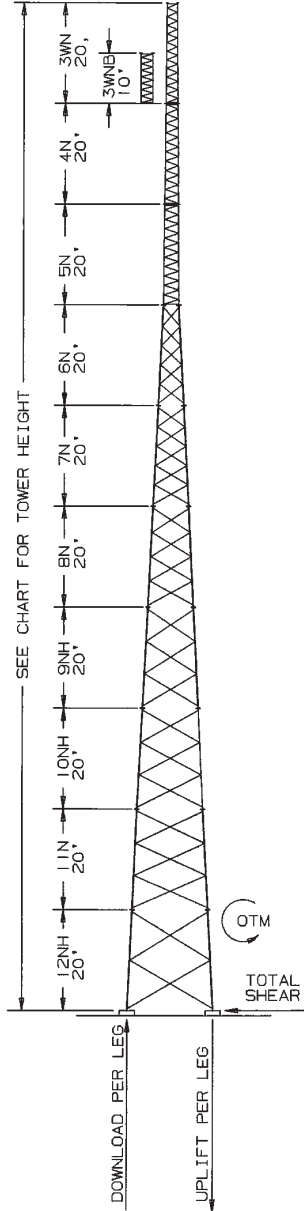
### SELF-SUPPORTING TOWER 70 MPH Basic Wind Speed (No Ice)

Item & Part Number	Wt.	Tower Height															
		40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'
Tapered Top 1TT	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10' Welded Straight Section 1WB	63		1		1		1		1		1		1		1		1
20' Welded Tapered Section 2W	153	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Welded Tapered Section 3WN	235	1*	1*	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 4N	470			1*	1*	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 5N	580					1*	1*	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 6N	515							1*	1*	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 7N	575									1*	1*	1	1	1	1	1	1
20' Knock Down Tapered Section 8N	720											1*	1*	1	1	1	1
20' Knock Down Tapered Section 9N	770													1*	1*	1	1
20' Knock Down Tapered Section 10N	870															1*	1*
Base Grounding Kit BGKE	10	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
SB3	58	1	1														
SB4	100			1	1												
SB5	115					1	1										
6NABD	50							1	1	1	1	1	1	1			
10NABD	80															1	1
Anti-Climb Warning Sign ACWS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tower Weight		486	549	998	1061	1593	1656	2053	2116	2628	2691	3348	3411	4118	4181	5018	5081

\*Base section of the tower should be designated as such.

See applicable drawings for foundation and loading details.

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



ELEVATION

TOWER ASSEMBLY NUMBER	TOWER HEIGHT (FEET)	TOP SECTION	PART NO.	# A-BOLTS 12 REQ'D	FACE SPREAD	ALLOWABLE PROJECTED AREA (SQ. FT.)		BASE REACTIONS				
						TOWER TOP ROUNDS OR FLATS	30 FEET BELOW TOP ROUNDS OR FLATS	DOWNLOAD (POUNDS)	UPLIFT (POUNDS)	TOTAL SHEAR (POUNDS)	OTM FOOT (POUNDS)	
SS040D90	40	3WN	4N	SB4	2' 2"	16.7	10.0	12.0	20,800	19,800	1,700	38,100
SS050D90	50	3WN	5N	SB5	2' 6"	16.7	10.0	12.0	27,900	26,600	1,950	58,900
SS060D90	60	3WN	5N	SB5	2' 6"	14.2	8.5	10.5	33,700	32,400	1,930	71,400
SS070D90	70	3WN	6N	5/8X42AB	4' 6 1/4"	14.2	8.5	10.5	31,100	25,500	2,760	103,100
SS080D90	80	3WN	6N	5/8X42AB	4' 6 1/4"	12.5	7.5	9.5	29,600	29,600	2,820	119,300
SS090D90	90	3WN	7N	5/8X42AB	6' 3/4"	12.5	7.5	9.5	31,100	29,100	3,850	169,900
SS100D90	100	3WN	7N	5/8X42AB	6' 3/4"	10.0	6.0	8.0	33,100	30,900	3,830	180,600
SS110D90	110	3WN	8N	5/8X42AB	8' 3/4"	10.0	6.0	8.0	36,000	33,400	5,070	255,500
SS120D90	120	3WN	8N	5/8X42AB	8' 3/4"	8.3	5.0	7.0	38,100	35,400	5,100	270,300
SS130D90	130	3WN	9NH	5/8X42AB	10' 6 3/4"	8.3	5.0	7.0	42,900	39,700	6,520	375,800
SS140D90	140	3WN	9NH	5/8X42AB	10' 6 3/4"	6.7	4.0	6.0	44,500	41,200	6,500	389,800
SS150D90	150	3WN	10NH	3/4X48AB	12' 7 1/4"	6.7	4.0	6.0	50,900	47,000	8,280	532,100
SS160D90	160	3WN	10NH	3/4X48AB	12' 7 1/4"	5.8	3.5	5.0	52,700	48,700	8,330	550,900
SS170D90	170	3WN	11N	7/8X60AB	14' 7 7/8"	5.8	3.5	5.0	60,900	56,000	10,570	739,500
SS180D90	180	3WN	11N	7/8X60AB	14' 7 7/8"	5.0	3.0	4.5	62,900	57,900	10,650	763,700
SS190D90	190	3WN	12NH	7/8X60AB	16' 8 3/8"	5.0	3.0	4.5	73,000	66,900	13,060	1,007,000

\* ANCHOR BOLTS OR BASE PART NO.

GENERAL NOTES

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/EIA-222-E-1991 (NO ICE).
2. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
3. TOWER DESIGNS ASSUME ALLOWABLE PROJECTED AREAS ARE SYMMETRICALLY PLACED ON THE TOWER.
4. DESIGNS ASSUME ONE 7/8 LINE TO TOP AND TWO 7/8 LINES TO 30 FEET BELOW TOP, ONE PER FACE.
5. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
6. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
7. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
8. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
9. FOR SECTION ASSEMBLY DETAILS AND PART NUMBERS SEE DRAWING E680101.
10. FOR ADDITIONAL BRACING, GROUTING AND DRAINAGE DETAILS SEE DRAWING SK720305.
11. FOR TAPERED TOP DETAILS SEE DRAWING SK670407.
12. ALL TOWERS WITH 3WN TOP SECTION PROVIDED WITH (P/N 3TT) TAPERED TOP.
13. ALL TOWERS WITH 3WN TOP SECTION PROVIDED WITH (P/N 4TTN) TAPERED TOP.
14. FOR STEP BOLT DETAILS SEE DRAWING B651264.
15. FOR FOUNDATION DETAILS SEE DRAWING D870483.

RI	REV. NOTE	1	WAS EIA-222-D	11-11-99	RGB	1	22	75	
No. Revision Description		Date	Rev. By	App. By	Title				
THIS DRAWING IS THE PROPERTY OF RCHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, IN PART OR WHOLE, WITHOUT OUR WRITTEN CONSENT.				R O H N					
Scale:	NONE	By:	WJU	Date:	9/2/97				
Drawn:	SPW	Checked:	SPW	Date:	9/30/97				
App. Eng.:	RAM	Date:	9/30/97						
App. States:	AE	Date:	2-12-98	ENG. FILE:	CB70699 RI				





### SELF-SUPPORTING TOWER 90 MPH Basic Wind Speed (No Ice)

Item & Part Number	Wt.	Tower Height																
		40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'	
20' Welded Tapered Section 3WN w/3TT Tapered Top	255	1		1		1		1		1		1		1		1		1
10' Welded Straight Section 3WNB w/4TTN Tapered Top	172		1		1		1		1		1		1		1		1	
20' Knock Down Tapered Section 4N	470	1*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 5N	580		1*	1*	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 6N	515				1*	1*	1	1	1	1	1	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 7N	575						1*	1*	1	1	1	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 8N	720									1*	1*	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 9NH	885											1*	1*	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 10NH	995													1*	1*	1	1	1
20' Heavy Duty Knock Down Tapered Section 11N	1455															1*	1*	1
20' Heavy Duty Knock Down Tapered Section 12NH	1860																	1*
Base Grounding Kit BGKE	10	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SB4	100	1																
SB5	115		1	1														
6NABD	50				1	1	1	1	1	1	1	1						
10NABD	80												1	1				
11NABD	140															1	1	1
Anti-Climb Warning Sign ACWS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tower Weight		845	1357	1440	1817	1900	2392	2475	3112	3195	3997	4080	5022	5105	6537	6620	8397	

\*Base section of the tower should be designated as such.

See applicable drawings for foundation and loading details.

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

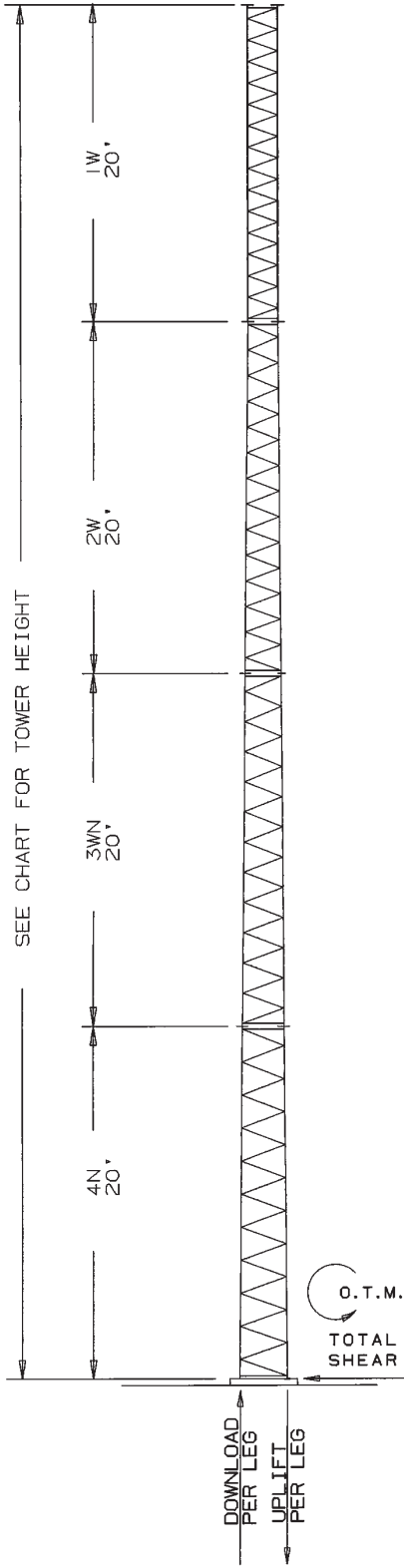




**SELF-SUPPORTING TOWER**  
**70 MPH Basic Wind Speed (No Ice)**  
**(1W at Top – ANSI/EIA 222 E, Exposure C)**

Item & Part Number	Tower Height								
	Wt.	40'	60'	80'	100'	120'	140'	160'	180'
Tapered Top 1TT	20	1	1	1	1	1	1	1	1
18' Welded Straight Section 1W	107	1	1	1	1	1	1	1	1
20' Welded Tapered Section 2W	135	1	1	1	1	1	1	1	1
20' Welded Tapered Section 3WN	235		1	1	1	1	1	1	1
20' Knock Down Tapered Section 4N	470			1	1	1	1	1	1
20' Knock Down Tapered Section 5N	580				1	1	1	1	1
20' Knock Down Tapered Section 6N	515					1*	1	1	1
20' Knock Down Tapered Section 7N	575						1*	1	1
20' Knock Down Tapered Section 8N	720							1*	1
20' Knock Down Tapered Section 9N	770								1*
Base Grounding Kit BGKE	10	2	2	2	2	3	3	3	3
Short Base Section SB2	45	1							
Short Base Section SB3	58		1						
Short Base Section SB4	100			1					
Short Base Section SB5	115				1				
Anchor Bolt Assembly 6NABD	50					1	1	1	1
Anti-Climb Warning Sign ACWS		1	1	1	1	1	1	1	1
Tower Weight		345	593	1105	1700	2150	2725	3445	4215

\*Base section of the tower should be designated as such.  
 See applicable drawings for foundation and loading details.  
 All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.



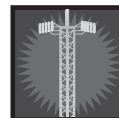
TOWER ASSEMBLY NUMBER	TOP SECTION	BASE SECTION		ALLOWABLE PROJECTED AREA (SQ. FT.)		BASE REACTIONS					
		PART NO.	%A-BOLTS 12 REQ'D	FACE SPREAD	TOWER TOP ROUNDS OR FLATS	30 FEET BELOW TOP ROUNDS OR FLATS	DOWNLOAD (POUNDS)	UPLIFT (POUNDS)	OTM (FOOT POUNDS)		
SS040D80EXC	1W	2W	SB2	1' 6"	5.8	3.5	8.3	5.0	10,270	650	13,620
SS060D80EXC	1W	3WN	SB3	1' 10"	4.2	2.5	5.8	3.5	15,530	750	25,070
SS080D80EXC	1W	4N	SB4	2' 2"	3.3	2.0	5.0	3.0	22,010	980	42,180

\* ANCHOR BOLTS OR BASE PART NO.

**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E (NO ICE).
2. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
3. TOWER DESIGNS ASSUME ALLOWABLE PROJECTED AREAS ARE SYMMETRICALLY PLACED ON THE TOWER.
4. DESIGNS ASSUME ONE 7/8 LINE TO TOP AND TWO 7/8 LINES TO 30 FEET BELOW TOP, ONE PER FACE.
5. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
6. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
7. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
8. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
9. FOR SECTION ASSEMBLY DETAILS AND PART NUMBERS SEE DRAWING E690800.
10. FOR ADDITIONAL BRACING, GROUTING AND DRAINAGE DETAILS SEE DRAWING SK720305.
11. FOR TAPERED TOP DETAILS SEE DRAWING SK670407.
12. ALL TOWERS PROVIDED WITH (P/N ITT) TAPERED TOP.
13. FOR STEP BOLT DETAILS SEE DRAWING B651264.
14. FOR FOUNDATION DETAILS SEE DRAWING D870480.

RI REV'D EIA-222-D TO EIA-222-E		P-10311 RWB		ZCS	
No. Revision Description		Date	Rev. By	Chk. By	App'd. By
THIS DRAWING IS THE PROPERTY OF ROHN IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT WRITTEN CONSENT.					
Series: NONE		By: RWB	Date: 12-9-88	Title: <b>ROHN</b>	
Drawn: GPM	Checked: RAM	App. Eng.: RAM	12-14-88	40' - 80' MODEL SSV TOWERS	
App. Series: 1 RW		12-22-88		90MPH WIND SPEED ANSI/EIA 222 E	
ENG. FILE:		C881240		RI	



Parts List P-572  
(Replaces P-556)

**SELF-SUPPORTING TOWER**  
**80 MPH Basic Wind Speed (No Ice)**  
**(1W at Top – ANSI/EIA 222 E, Exposure C)**

Item & Part Number	Wt.	Tower Height		
		40'	60'	80'
Tapered Top 1TT	20	1	1	1
18' Welded Straight Section 1W	107	1	1	1
20' Welded Tapered Section 2W	153	1	1	1
20' Welded Tapered Section 3WN	235		1	1
20' Knock Down Tapered Section 4N	470			1
Base Grounding Kit BGKE	10	2	2	2
Short Base Section SB2	45	1		
Short Base Section SB3	58		1	
Short Base Section SB4	100			1
Anti-Climb Warning Sign ACWS		1	1	1
Tower Weight		345	593	1105

See applicable drawings for foundation and loading details.

Installation information is also included with the tower material.

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





### ANCHOR BOLT TEMPLATE INFORMATION

ASSEMBLY PART NO.	TEMPLATE PT. NO.		ANCHOR BOLTS (1/2 REQ'D.)	BASE FLANGE SIZE	TOWER BASE SECTION (SEE TOWER ASSY FOR EXACT PIN)
	TOP	BOTTOM			
6NAB	(3)VL25T	(3)VL25B	5/8 X 30"	5 X 5 X 3/4"	6N, 7N, 8N, 9N, 9NH
6NABD	(3)VL25T	(3)VL25B	5/8 X 42"	5 X 5 X 3/4"	6N, 7N, 8N, 9N, 9NH
10NAB	(3)VL26T	(3)VL26B	3/4 X 36"	6 X 6 X 3/4"	10N, 10NH
10NABD	(3)VL26T	(3)VL26B	3/4 X 48"	6 X 6 X 3/4"	10N, 10NH
11NAB	(3)VL27T	(3)VL27B	7/8 X 42"	7 X 7 X 1"	11N, 12N, 12NH, 13N, 13NH
11NABD	(3)VL27T	(3)VL27B	7/8 X 60"	7 X 7 X 1"	11N, 12N, 12NH, 13N, 13NH
14NAB	(3)VL28T	(3)VL28B	1 X 48"	9 1/2 X 9 1/2 X 1 1/4"	14N, 14NH, 15N, 16N
15NHAB	(3)VL28T	(3)VL28B	1 X 72"	9 1/2 X 9 1/2 X 1 1/4"	15NH, 16NH
15NHABD	(3)VL28T	(3)VL28B	1 X 78"	9 1/2 X 9 1/2 X 1 1/4"	14N, 14NH, 15N, 15NH, 16N, 16NH

ANCHOR BOLT SETTING TEMPLATES (SEE CHART FOR PART NO. REQ'D.) REMOVE UPPER TEMPLATE BEFORE INSTALLING TOWER.

INDEPENDENT ANCHOR BOLTS (SEE TOWER ASSY FOR LAYOUT INFO.)

ALL WELDED 'S'B' ASSY. FOR SECTIONS 2W, 3WN, 4N, & 5N PT. NOS S82, S83, S84, & S85

PAD FOUNDATION FOR SECTIONS 1N-10N 3 PIER & PAD FOUNDATIONS FOR SECTIONS 7N THRU 16N OR 16NH

2"

ANCHOR BOLT SETTING TEMPLATES (SEE CHART FOR PART NO. REQ'D.) REMOVE UPPER TEMPLATE BEFORE INSTALLING TOWER.

### NOTES

- IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT SETTING TEMPLATE & FOUNDATION DWG. ARE BEING USED.
- CHECK ANCHOR BOLT SIZE, NO., SPACING, & BOLT CIRCLE DIA. ON TEMPLATE AGAINST ANCHOR BOLT LAYOUT DRAWINGS BEFORE INSTALLATION.
- BOLT TEMPLATES AVAILABLE FOR SECTIONS 6N THRU 16N OR 16NH.
- ALLOW FOR DRAINAGE OF ALL PIPE LEG TOWER SECTIONS.
- PART NO. 1N CHART AT UPPER LEFT CONSISTS OF 12 ANCHOR BOLTS & 6 TEMPLATES.

REVISIONS		DATE	BY
R3	ADDED D. ABS & REVISED PAD FDM.	3-17-88	WHD
R2	RE-DRAWN (REPLACES CU-730104-R1)	2-14-85	DL

**ROHN MANUFACTURING**  
DIVISION OF

TITLE: ANCHOR BOLT SETTING DETAILS  
INFORMATION & SHORT BASE DETAILS

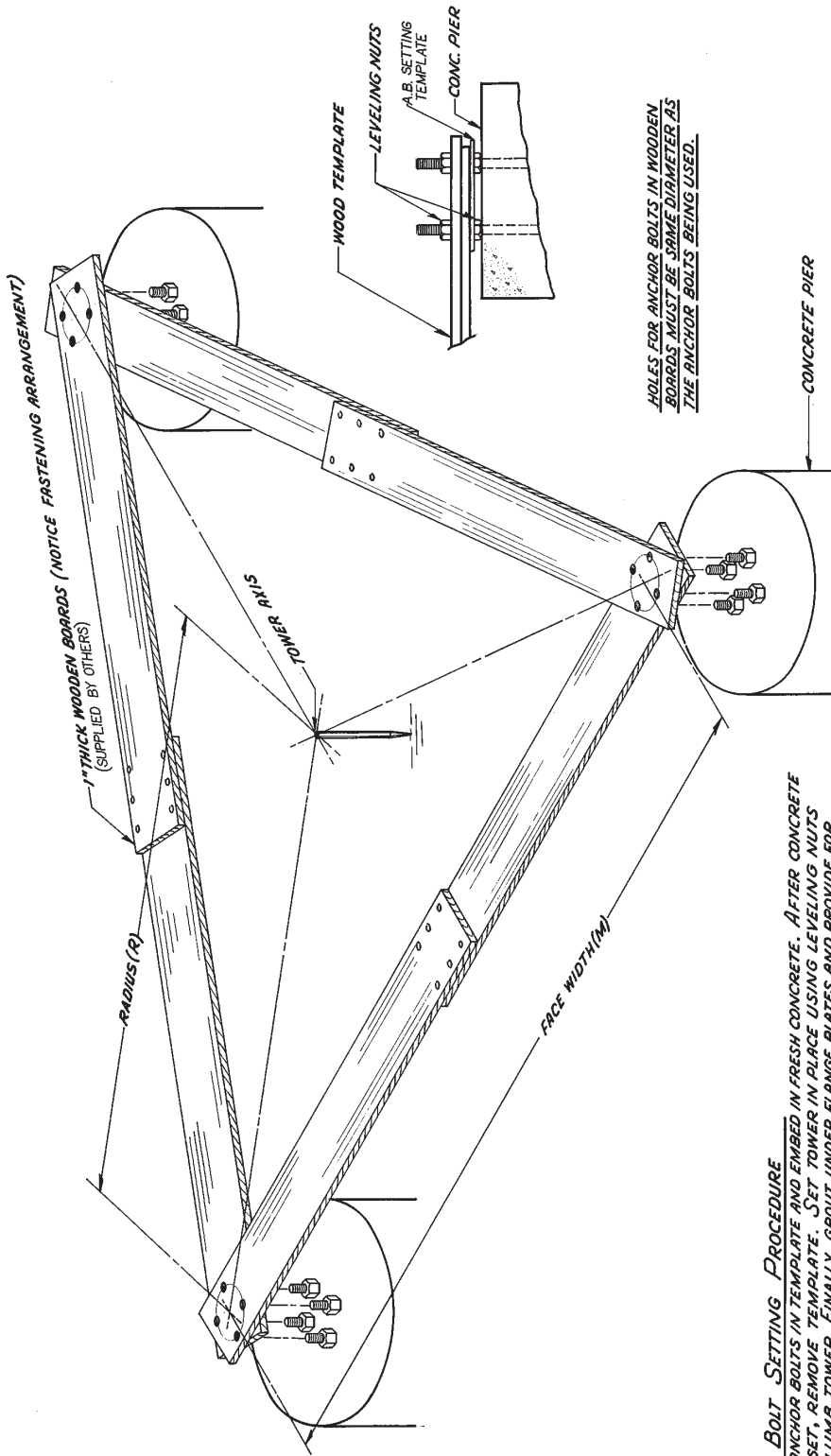
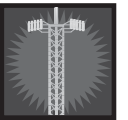
FILE NO. \_\_\_\_\_

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DATE	BY	REVISIONS
2-14-85	DL	ISSUED
3-1-85	WHD	ISSUED
3-1-85	WHD	ISSUED
3-1-85	WHD	ISSUED

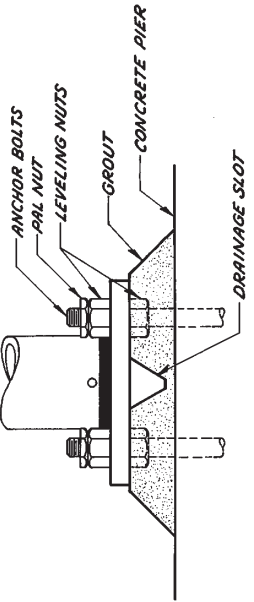
DWG. NO. CU 730104 R3

NOTE: SEE DWG. NO. 8 140973 FOR TEMPLATE FABRICATION DETAILS.



**ANCHOR BOLT SETTING PROCEDURE**

SET ANCHOR BOLTS IN TEMPLATE AND EMBED IN FRESH CONCRETE. AFTER CONCRETE HAS SET, REMOVE TEMPLATE. SET TOWER IN PLACE USING LEVELING NUTS TO PLUMB TOWER. FINALLY, GROUT UNDER FLANGE PLATES AND PROVIDE FOR DRAINAGE OF ALL 3 TOWER LEGS.



NOTE: ANCHOR BOLT ORIENTATION SHOWN ABOVE IS ONLY FOR SECTIONS 6N THRU 16N STANDARD OR HEAVY SERIES.

R2	UPDATED DRAWING	8-4-80	AUG
R1	ADDED NOTE	4-12-77	
No. 1 Revision Description		Date	BY
Unarco-Rohn		Division of Unarco Industries, Inc.	
<b>ANCHOR BOLT SETTING PROCEDURE</b>			
<b>SELF-SUPPORTING TOWERS</b>			
Scale	NONE	Tolerances	Unless otherwise specified, dimensions are given in inches.
Drawn by	OK	Revised	
Checked by	TS	Material	
Approved by	TS	Finish	
Approved by Production		Angles	
Approved by Sales		Weight	
Drawing Number		C71017 R2	



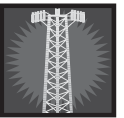


# SCL TOWER



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

Blank



# ROHN SCL

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### SCL DESIGN / LOADING DRAWING

SHEET 1

SHEET 2

### SCL ASSEMBLY DRAWING

SHEET 1

SHEET 2

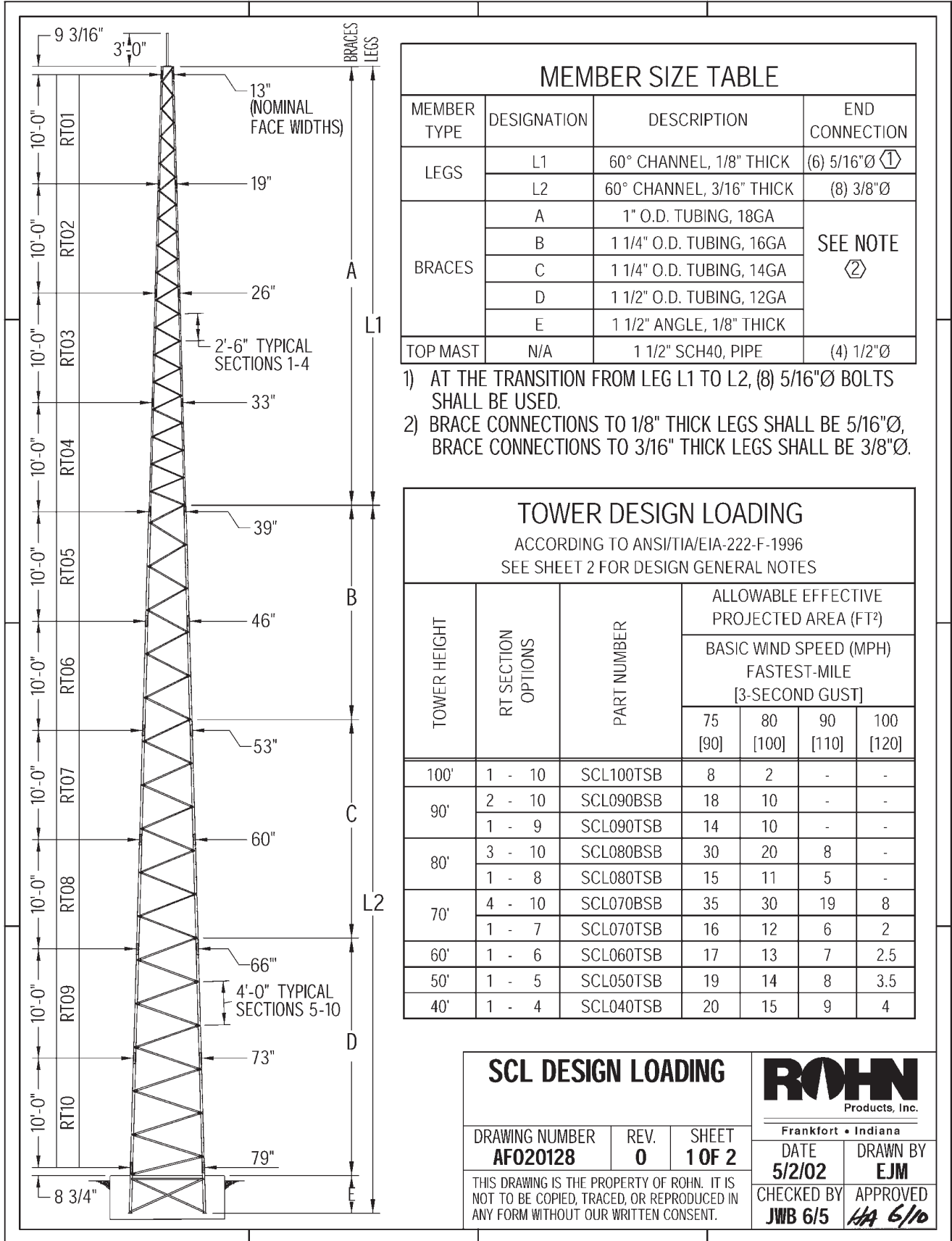
SHEET 3

### SCL FOUNDATION DETAIL DRAWING

SHEET 1

SHEET 2



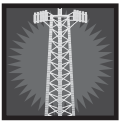




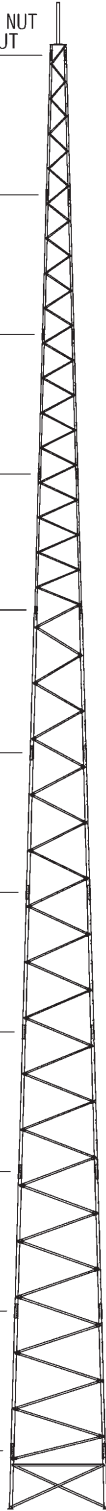
**DESIGN GENERAL NOTES**

- 1) TOWER DESIGNS CONFORM TO THE APPROVED NATIONAL STANDARD ANSI/TIA/EIA-222-F-1996 FOR THE BASIC WIND SPEEDS INDICATED WITHOUT ICE. TOWER DESIGNS ALSO CONFORM TO THE ANSI/TIA/EIA STANDARD FOR A ½ INCH RADIAL ICE LOAD OCCURRING SIMULTANEOUSLY WITH 75% OF THE NO ICE DESIGN WIND PRESSURES. THE APPROPRIATE DESIGN CRITERIA FOR A SITE MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- 2) ANTENNAS AND MOUNTS ARE ASSUMED TO BE SYMMETRICALLY MOUNTED AT OR BELOW THE TOP OF THE TOWER FOR DETERMINING OVERALL REACTIONS AND MEMBER FORCES. DESIGN ASSUMES THE WEIGHT OF ANTENNAS AND MOUNTS DO NOT EXCEED 300 POUNDS. LOCAL STRESSES DUE TO MOUNTING ARRANGEMENTS FOR SITE-SPECIFIC APPLICATIONS HAVE NOT BEEN CONSIDERED AND MUST BE INVESTIGATED BY OTHERS ON AN INDIVIDUAL SITE BASIS.
- 3) THE ALLOWABLE EFFECTIVE PROJECTED AREAS INDICATED INCLUDE THE SUMMATION OF THE PROJECTED AREAS OF ANTENNAS AND MOUNTS MUTLIPLIED BY THEIR APPROPRIATE DRAG FACTORS. THE ALLOWABLE EFFECTIVE PROJECTED AREAS ARE BASED ON APPLICATIONS WITHOUT THE USE OF ANTI-CLIMB PANELS. THE USE OF ANTI-CLIMB PANELS WILL REDUCE THE ALLOWABLE EFFECTIVE PROJECTED AREAS INDICATED. WHEN ½ INCH OF RADIAL ICE IS TO BE CONSIDERED FOR AN APPLICATION, THE ADDITIONAL EFFECTIVE PROJECTED AREA OF THE ICE ON ANTENNAS AND MOUNTS SHALL BE INCLUDED IN THE SUMMATION.
- 4) DESIGN ASSUMES MAXIMUM TOP MAST LOAD IS LIMITED TO 5 SQUARE FEET EFFECTIVE PROJECTED AREA AND 100 POUNDS VERTICAL LOAD. ALL OTHER LOADING IS ASSUMED TO BE MOUNTED BELOW THE TOP MAST.
- 5) TOWER DESIGNS ASSUME A ½ INCH TRANSMISSION LINE FOR EACH 10 SQUARE FEET OF EFFECTIVE PROJECTED AREA UP TO A MAXIMUM OF THREE LINES, ONE LINE PER TOWER FACE.
- 6) TOWER DESIGNS DO NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT (OR DISMANTLE) THE TOWER IN ACCORDANCE WITH THE ANSI/TIA/EIA STANDARD.
- 7) THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE EQUAL TO 50 KSI WITH THE EXCEPTION OF PLATES AND ANGLES, WHICH SHALL BE 36 KSI. ALL BOLTS SHALL BE SAE GRADE 5 WITH LOCK WASHERS TO BE USED AS NUT LOCKING DEVICES.
- 8) ALL MEMBERS AND HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE ANSI/TIA/EIA STANDARD.
- 9) TOWER DESIGN ASSUMES THAT AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED BY OTHERS OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH THE ANSI/TIA/EIA STANDARD.
- 10) FOUNDATIONS SHALL BE DESIGNED FOR THE CONDITIONS EXISTING AT THE SITE. FOR REACTIONS AND STANDARD MAT FOUNDATIONS DESIGNED IN ACCORDANCE WITH ANSI/TIA/EIA "NORMAL" SOIL, REFER TO DRAWING AF020037.
- 11) THE TOWER HEIGHTS LISTED IN THE DESIGN LOADING CHART AND THE FACE WIDTHS SHOWN ON THE ELEVATION VIEW ARE NOMINAL DIMENSIONS. ACTUAL TOWER HEIGHTS WILL BE SLIGHTLY HIGHER DUE TO THE SHORT BASE, AND TOP PLATE ASSEMBLY.

<b>SCL DESIGN LOADING</b>			<b>ROHN</b> Products, Inc. Frankfort • Indiana	
DRAWING NUMBER <b>AF020128</b>	REV. <b>0</b>	SHEET <b>2 OF 2</b>	DATE <b>5/2/02</b>	DRAWN BY <b>EJM</b>
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TOP PLATE ASSEMBLY	(1) TOP PLATE WELDMENT (1) MAST - 1-1/2" SCH40 PIPE (1.9" O.D.) (3) BRACES - 1" O.D., 18GA TUBING (4) BOLTS - 1/2" X 1-1/4" W/ SPLIT LOCK & NUT (3) BOLTS - 5/16" X 1" W/ SPLIT LOCK & NUT
RT01	(3) LEGS - 1/8" THICK, 60v CHANNEL (24) BRACES - 1" O.D., 18GA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX
RT02	(3) LEGS - 1/8" THICK, 60v CHANNEL (24) BRACES - 1" O.D., 18GA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX
RT03	(3) LEGS - 1/8" THICK, 60v CHANNEL (24) BRACES - 1" O.D., 18GA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX
RT04	(3) LEGS - 1/8" THICK, 60v CHANNEL (21) BRACES - 1" O.D., 18GA TUBING (3) BRACES - 1-1/4" O.D., 16GA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX
RT05	(3) LEGS - 3/16" THICK, 60v CHANNEL (15) BRACES - 1-1/4" O.D., 16GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX
RT06	(3) LEGS - 3/16" THICK, 60v CHANNEL (12) BRACES - 1-1/4" O.D., 16GA TUBING (3) BRACES - 1-1/4" O.D., 14GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX
RT07	(3) LEGS - 3/16" THICK, 60v CHANNEL (15) BRACES - 1-1/4" O.D., 14GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX
RT08	(3) LEGS - 3/16" THICK, 60v CHANNEL (12) BRACES - 1-1/4" O.D., 14GA TUBING (3) BRACES - 1-1/2" O.D., 12GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX
RT09	(3) LEGS - 3/16" THICK, 60v CHANNEL (15) BRACES - 1-1/2" O.D., 12GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX
RT10	(3) LEGS - 3/16" THICK, 60v CHANNEL (12) BRACES - 1-1/2" O.D., 12GA TUBING (12) BOLTS - 3/8" X 1-1/4" (12) WASHER - 3/8" SPLIT LOCK (12) NUT - 3/8" HEX
SHORT BASE	(3) LEGS - 3/16" THICK, 60v CHANNEL (9) BRACES - 1-1/2" X 1-1/2" X 1/8" ANGLE (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX



**GENERAL NOTES**

- 1) ASSEMBLY (OR DISMANTLING) SHALL BE BY COMPETENT AND QUALIFIED PERSONNEL IN ACCORDANCE WITH ANSI/TIA/EIA-222-F 1996 "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES."
- 2) SECTIONS ARE AVAILABLE AS ASSEMBLED SECTIONS OR AS KNOCKDOWN COMPONENTS. (KNOCKDOWN SECTION KITS ARE IDENTIFIED WITH A "K" ADDED TO THE END OF THE SECTION PART NUMBER.)
- 3) TOWER LOADING SHALL NOT EXCEED THE LOADING INDICATED ON DRAWING AF020128.
- 4) TOWER SHALL NOT BE INSTALLED WITHIN FALLING DISTANCE OF ELECTRICAL OR TELEPHONE LINES.
- 5) PART NUMBERS ARE STAMPED ON ALL LEG AND BRACE MEMBERS. REFER TO SHEET 2 FOR SECTION ASSEMBLY DETAILS.
- 6) FIELD CONNECTIONS SHALL BE BOLTED WITH LOCK WASHERS, NO FIELD WELDING SHALL BE ALLOWED.
- 7) TOWER OBSTRUCTION MARKING, IF REQUIRED, SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 8) GROUNDING SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. NUMBER OF BGK3G GROUNDING KITS ARE BASED ON FACE WIDTH. SEE BILL OF MATERIAL ON SHEET 3 FOR QTY. SUPPLIED. REFER TO DRAWING AF020142 FOR INSTALLATION DETAILS. ADDITIONAL GROUNDING MATERIAL MAY BE REQUIRED BASED ON SITE-SPECIFIC CONDITIONS AND REQUIREMENTS.
- 9) WARNING PLATE (P/N ACWS) SHALL BE INSTALLED IN A HIGHLY VISIBLE LOCATION ON THE TOWER.
- 10) STEP BOLTS WITH CLIMBER ANCHORAGES ARE AVAILABLE AS AN OPTION FOR CLIMBING THE ENTIRE HEIGHT OF THE TOWER. REFER TO DRAWING AF020095 FOR DETAILS.
- 11) A ROHN-LOC SAFETY DEVICE ASSEMBLY IS AVAILABLE AS AN OPTION FOR CLIMBING THE LEG OF THE TOWER. REFER TO DRAWING AF020141 FOR DETAILS.
- 12) SEE DRAWING AF020037 FOR SHORT BASE DETAILS, REACTIONS AND STANDARD MAT FOUNDATION DESIGNS BASED ON ANSI/TIA/EIA "NORMAL" SOIL. PRIOR TO INSTALLING STANDARD FOUNDATIONS, IT SHALL BE VERIFIED THAT ACTUAL SITE SOIL PARAMETERS EQUAL OR EXCEED "NORMAL" SOIL PARAMETERS.

**SCL ASSEMBLY DRAWING**



Frankfort • Indiana

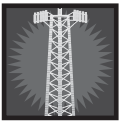
DRAWING NUMBER <b>AF020140</b>	REV. <b>0</b>	SHEET <b>1 OF 3</b>
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DATE <b>4/3/02</b>	DRAWN BY <b>EJM</b>
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CHECKED BY <b>JWB 6/5</b>	APPROVED <b>HA 6/10</b>
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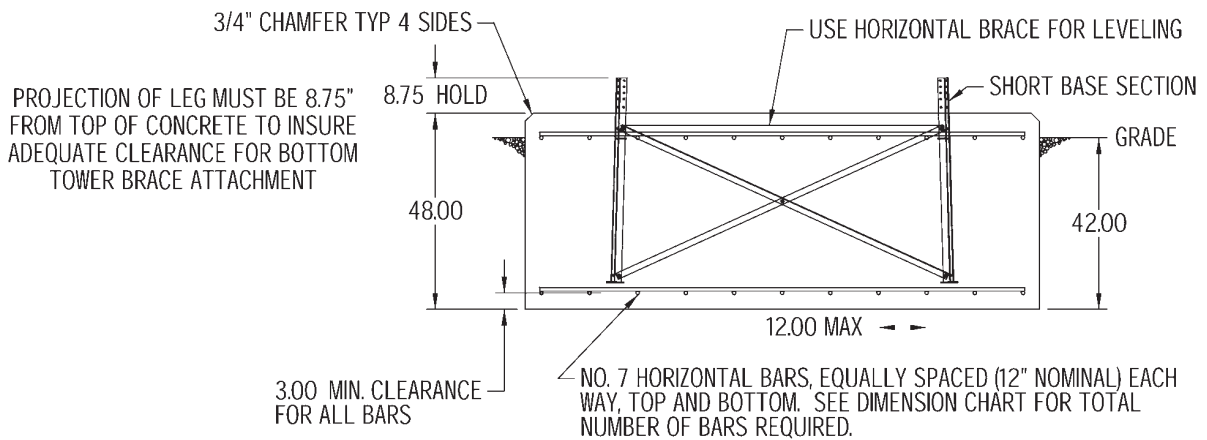
BILL OF MATERIAL																			
TOWER HEIGHT	RT SECTION OPTIONS	TOWER PART NUMBER	TOTAL WEIGHT (LBS)	SECTIONS										TOP PLATE ASSEMBLY PART #	SHORT BASE PART #	SPLICES			
				RT01 QTY	RT02 QTY	RT03 QTY	RT04 QTY	RT05 QTY	RT06 QTY	RT07 QTY	RT08 QTY	RT09 QTY	RT10 QTY			RTJBKA QTY	RTJBKB QTY	RTJBKC QTY	BGK3G QTY
100'	1 - 10	SCL100TSB	1921	1	1	1	1	1	1	1	1	1	1	RT01TPA	RT10SB	4	1	6	3
90'	2 - 10	SCL090BSB	1848		1	1	1	1	1	1	1	1	1	RT02TPA	RT10SB	3	1	6	3
	1 - 9	SCL090TSB	1651	1	1	1	1	1	1	1	1	1		RT01TPA	RT09SB	4	1	5	3
80'	3 - 10	SCL080BSB	1784			1	1	1	1	1	1	1	1	RT03TPA	RT10SB	2	1	6	3
	1 - 8	SCL080TSB	1358	1	1	1	1	1	1	1	1			RT01TPA	RT08SB	4	1	4	3
70'	4 - 10	SCL070BSB	1720				1	1	1	1	1	1	1	RT04TPA	RT10SB	1	1	6	3
	1 - 7	SCL070TSB	1112	1	1	1	1	1	1	1				RT01TPA	RT07SB	4	1	3	3
60'	1 - 6	SCL060TSB	896	1	1	1	1	1	1					RT01TPA	RT06SB	4	1	2	2
50'	1 - 5	SCL050TSB	699	1	1	1	1	1						RT01TPA	RT05SB	4	1	1	2
40'	1 - 4	SCL040TSB	514	1	1	1	1							RT01TPA	RT04SB	4	1	0	2

<b>SCL ASSEMBLY DRAWING</b>			<b>ROHN</b> Products, Inc.	
Frankfort • Indiana				
DRAWING NUMBER <b>AF020140</b>	REV. <b>0</b>	SHEET <b>3 OF 3</b>	DATE <b>4/3/02</b>	DRAWN BY <b>EJM</b>
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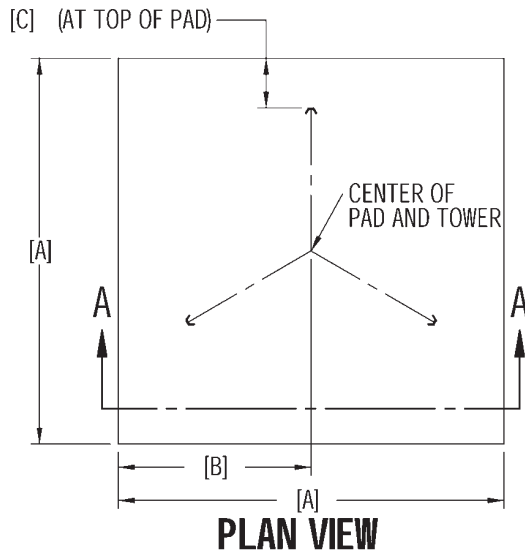


SHORT BASE REFERENCE CHART											
SHORT BASE PART NUMBER	SHORT BASE BILL OF MATERIAL				DIMENSIONS					MAXIMUM BASE REACTIONS	
	LEG P/N (QTY 3)	HORIZONTAL BRACE P/N (QTY 3)	DIAGONAL BRACE P/N (QTY 6)	3/8" HARDWARE QTY	DIMENSION A	DIMENSION B	DIMENSION C	CONCRETE REQ. (CU. YDS)	TOTAL NO. 7 BARS REQ.	MAXIMUM OVERTURNING MOMENT (FT-POUNDS)	MAXIMUM ALLOWABLE SHEAR (POUNDS)
RT04SB	RTW02	RTB34SB	RTB35SB	15	78	39	16	6.3	28	36,500	1,500
RT05SB	RTW02	RTB39SB	RTB40SB	15	102	51	23	10.7	36	89,800	2,000
RT06SB	RTW02	RTB44SB	RTB45SB	15	108	54	23	12.0	40	102,800	3,000
RT07SB	RTW02	RTB49SB	RTB50SB	15	108	54	19	12.0	40	115,700	4,000
RT08SB	RTW02	RTB54SB	RTB55SB	15	114	57	18	13.4	40	128,800	4,500
RT09SB	RTW02	RTB59SB	RTB60SB	15	126	63	20	16.3	44	141,600	5,000
RT10SB	RTW02	RTB64SB	RTB65SB	15	126	63	16	16.3	44	154,400	5,500

SEE SHEET 2 FOR "STANDARD FOUNDATION NOTES"



**SECTION A-A**



**PLAN VIEW**

<b>SCL MAT FOUNDATION FOR EIA "NORMAL" SOIL</b>			<b>ROHN</b> Products, Inc.	
Frankfort • Indiana			DATE	DRAWN BY
DRAWING NUMBER	REV.	SHEET	2/21/02	EJM
AF020037	0	1 OF 2	CHECKED BY	APPROVED
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**STANDARD FOUNDATION NOTES:**

1. FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F-1996, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 7, FOR "NORMAL" SOIL CONDITIONS. "NORMAL" SOIL IS DEFINED AS DRY, COHESIVE SOIL WITH AN ALLOWABLE NET VERTICAL BEARING CAPACITY OF 4000 PSF AND AN ALLOWABLE NET HORIZONTAL PRESSURE OF 400 PSF PER LINEAL FOOT OF DEPTH TO A MAXIMUM OF 4000 PSF.
2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED E.I.A. "NORMAL" SOIL PARAMETERS AND THAT THE DEPTH OF STANDARD FOUNDATIONS ARE ADEQUATE BASED ON THE FROST PENETRATION AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE SITE. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT "NORMAL" SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
3. FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS, AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
4. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
5. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
6. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
7. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
8. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM 615 GRADE 60. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED.
9. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
10. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
11. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT.
12. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
13. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
14. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIAL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
15. CONCRETE PLACEMENT SHALL BE CONTINUOUS. NO CONSTRUCTION JOINTS SHALL BE ALLOWED.
16. TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
17. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.

<b>SCL MAT FOUNDATION FOR EIA "NORMAL" SOIL</b>			<b>ROHN</b> Products, Inc.	
DRAWING NUMBER <b>AF020037</b>			Frankfort • Indiana	
REV. <b>0</b>	SHEET <b>2 OF 2</b>	DATE <b>2/21/02</b>	DRAWN BY <b>EJM</b>	
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Products

# SSV ACCESSORIES



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

## SPECIFICATIONS











ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2907A	3" TUBE 1/2" x 5' LEG W/ UNIV. TB PLATE	ASSEMBLY	8801450
2	1	VY2907B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2907C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2907D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2907E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2908A	3" TUBE 6" x 8' LEG W/ UNIV. TB PLATE	ASSEMBLY	8801450
2	1	VY2908B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2908C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2908D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2908E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2909A	3" TUBE 1/2" x 5' LEG W/ 1/4" HOLE TB PLATE	ASSEMBLY	8801450
2	1	VY2909B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2909C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2909D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2909E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2910A	3" TUBE 6" x 8' LEG W/ 1/4" HOLE TB PLATE	ASSEMBLY	8801450
2	1	VY2910B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2910C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2910D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2910E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2911A	4" TUBE 1/2" x 5' LEG W/ UNIV. TB PLATE	ASSEMBLY	8801450
2	1	VY2911B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2911C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2911D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2911E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2912A	4" TUBE 6" x 8' LEG W/ UNIV. TB PLATE	ASSEMBLY	8801450
2	1	VY2912B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2912C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2912D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2912E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2913A	4" TUBE 1/2" x 5' LEG W/ 1/4" HOLE TB PLATE	ASSEMBLY	8801450
2	1	VY2913B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2913C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2913D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2913E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2913A	4" TUBE 1/2" x 5' LEG W/ 1/4" HOLE TB PLATE	ASSEMBLY	8801450
2	1	VY2913B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2913C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2913D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2913E	SR U-BOLT ASSY	ASSEMBLY	8801450

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2914A	4" TUBE 6" x 8' LEG W/ 1/4" HOLE TB PLATE	ASSEMBLY	8801450
2	1	VY2914B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2914C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2914D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2914E	SR U-BOLT ASSY	ASSEMBLY	8801450

**TIE-BACK ORDERING INFORMATION**

1 - MOUNTING KIT ASSY (SEE INDIVIDUAL BOM)

1 - U-BOLT KIT ASSY (SEE CHART FOR PART NO.)

1 - TIE-BACK ATTACHMENT PLATE (SEE CHART FOR PART NO.)

1 - ANGLE TUBE MOUNT (SEE CHART FOR PART NO.)

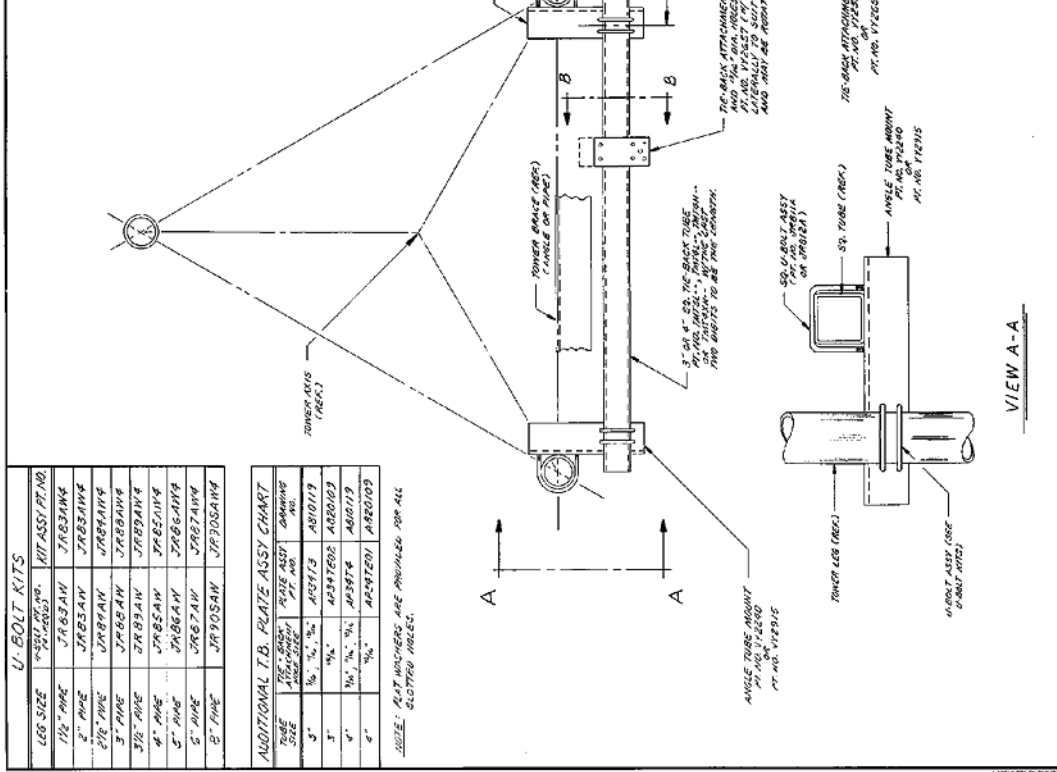
(NOTE: THE PART TUBE LENGTHS TO BE ORDERED MUST ALSO BE ORDERED.)

TIE-BACK ATTACHMENT PLATES REQ'D.

**NOTE:**

PLEASE ORDER THE 4" x 1/2" HOLE TB PLATE TO BE ORDERED (SEE CHART FOR PART NO.)

MINIMUM EXTENDING T.B. LEG LENGTH = 4" AND 800 LBS. WEIGHT = 5'0" AND 800 LBS. WEIGHT = 5'0" AND 800 LBS.



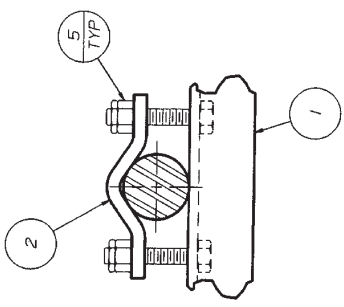
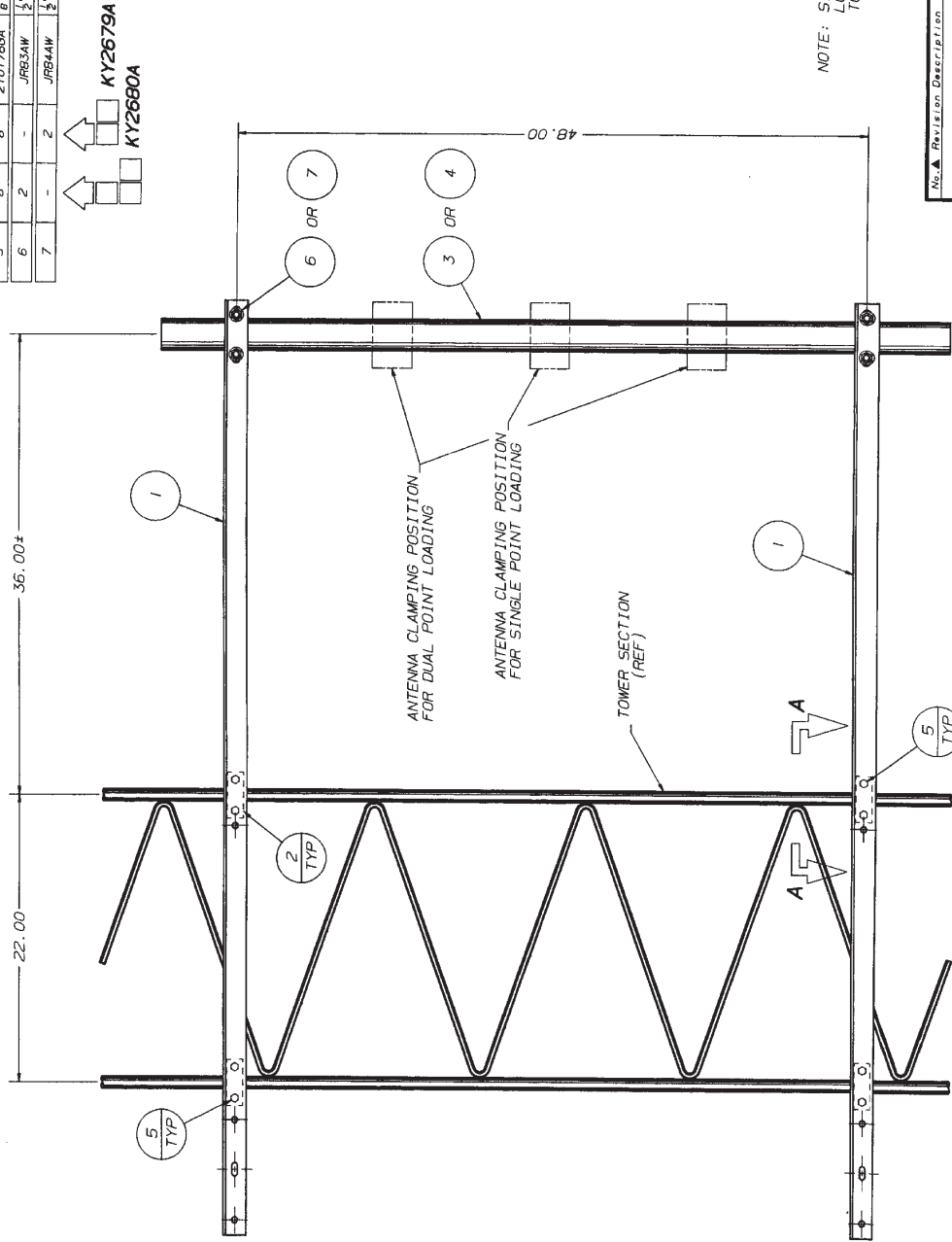
NOTE: THESE TIE-BACK ASSY'S MAY BE MT'D. ON THE INSIDE OF THE TOWER LEG IF REQ'D.

ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	VY2913A	4" TUBE 1/2" x 5' LEG W/ 1/4" HOLE TB PLATE	ASSEMBLY	8801450
2	1	VY2913B	ANGLE TUBE MOUNT	ASSEMBLY	8801450
3	1	VY2913C	ANGLE TUBE MOUNT	ASSEMBLY	8801450
4	6	VY2913D	TIE-BACK ATTACHMENT PLATE	ASSEMBLY	8801450
5	6	VY2913E	SR U-BOLT ASSY	ASSEMBLY	8801450





BILL OF MATERIAL				
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	KH5B1B	MOUNTING ANGLE (L 1 1/4" X 1 1/4" X 3/8")	C991136
2	4	KH81	SADDLE CLAMP	B770214
3	1	KH275	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
4	-	KH276	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
5	8	210176GA	3/8" X 2 1/2" BOLT ASSY	C770404
6	2	JRB3AW	1/2" U-BOLT ASSY W/WASHER	B65102B
7	-	JRB4AW	1/2" U-BOLT ASSY W/WASHER	B65102B



NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG/BRACE INTERSECTION

NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 200 LBS LATERAL THRUST

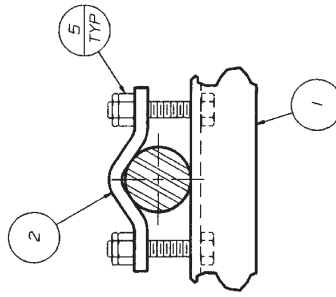
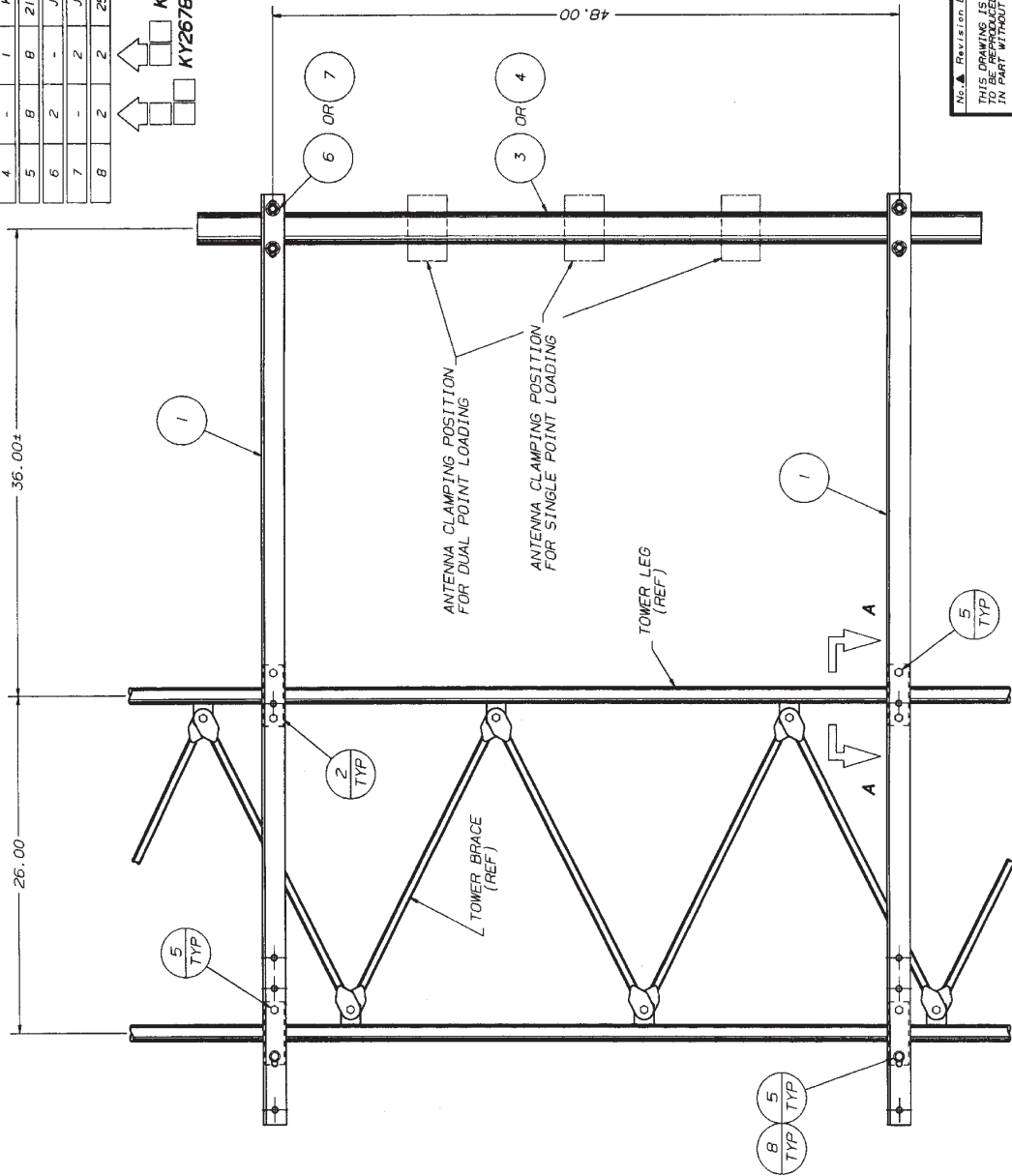
NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY

No. <b>▲</b> Revision Description		Date <b>▲</b> Rev. By <b>▲</b> Chd. By <b>▲</b> App. By <b>▲</b>	
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Scale: NONE	By: WRF	Date: 6/28/99	<b>ROHN</b>
Drawn: WRF	Checked: WRF	7/6/99	
App. Eng.: WRF	Eng. File:	12/18/99	
Present File:	BMS. FILE:		
3' SIDE ARM ASSY W/2" OR 2 1/4" MTG PIPE FOR 3WST SECTIONS		DWG. NO.:	C991134
		SHEET:	1 OF 1
		REV.	



**BILL OF MATERIAL**

ITEM	QUAN.	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	2	2	KH5B18	MOUNTING ANGLE (L 1 1/2" X 1 1/2" X 1 1/2")	C991136
2	4	4	D114	SADDLE CLAMP	B770214
3	1	-	KH275	MOUNTING PIPE (2STD X 5'-0" LG.)	B770160
4	-	-	KH276	MOUNTING PIPE (2STD X 5'-0" LG.)	B770160
5	8	8	2101766A	3/8" X 2 1/2" BOLT ASSY	C770404
6	2	-	JRB3AW	1/2" U-BOLT ASSY W/WASHER	B651028
7	-	2	JRB4AW	1/2" U-BOLT ASSY W/WASHER	B651028
8	2	2	2500066	WASHER FOR 3/8" BOLT	N/A



SECTION A-A

NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG/BRACE INTERSECTION

No. Revision Description Date Rev By Chk By Appr By

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**ROHN**

3" SIDE ARM ASSY W/2" OR 2 1/2" MTG PIPE FOR 4NST SECTIONS

Scale: NONE By: Date: 6/28/99  
 Drawn: WFF  
 Checked: KZ 7/6/99  
 App. Eng. I: JT 12/18/99

DWG. NO.: C991133  
 ENG. FILE:  
 Parent File: SHEET 1 OF 1 REV.

NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 200 LBS LATERAL THRUST

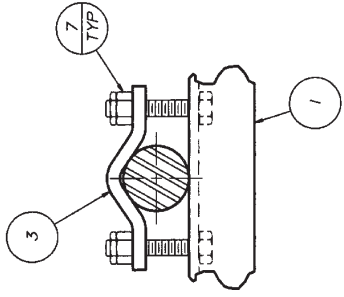
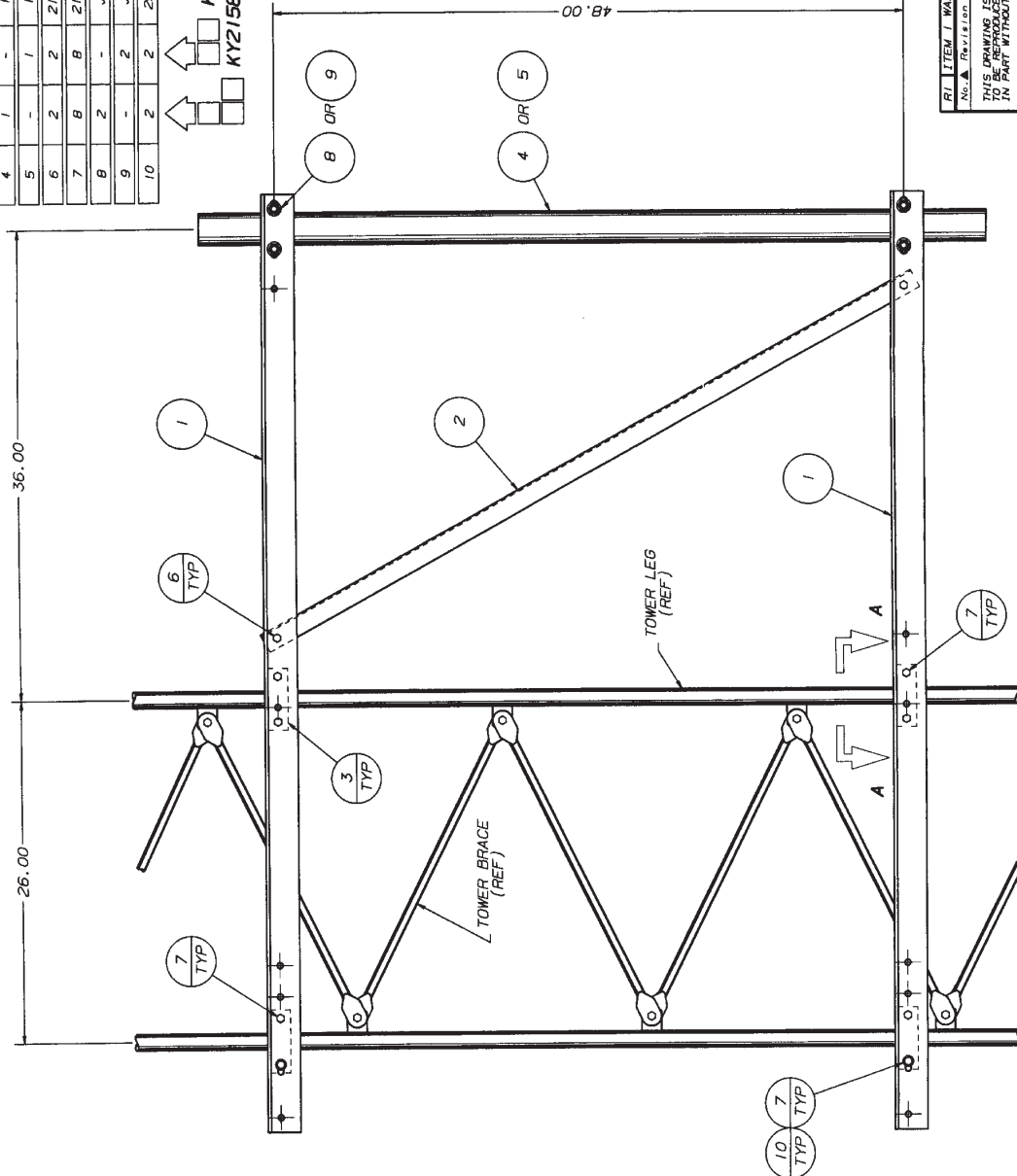
NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY



**BILL OF MATERIAL**

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	KH5B14	MOUNTING ANGLE (L 2 1/2" X 2 1/2" X 1/2")	C971982
2	1	KH5723	SUPPORT ANGLE (L 1 1/2" X 1 1/2" X 1/2")	C971982
3	4	D114	SADDLE CLAMP	B770214
4	1	KH275	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
5	-	KH276	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
6	2	2100056A	3/8" X 1 1/2" BOLT ASSY	C770404
7	B	2101766A	3/8" X 2 1/2" BOLT ASSY	C770404
8	2	JR63AW	1/2" U-BOLT ASSY W/WASHER	B651028
9	-	JR64AW	1/2" U-BOLT ASSY W/WASHER	B651028
10	2	2500086	WASHER FOR 3/8" BOLT	N/A

KY2157A  
 KY2158A



SECTION A-A

NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG/BRACE INTERSECTION

NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 300 LBS LATERAL THRUST

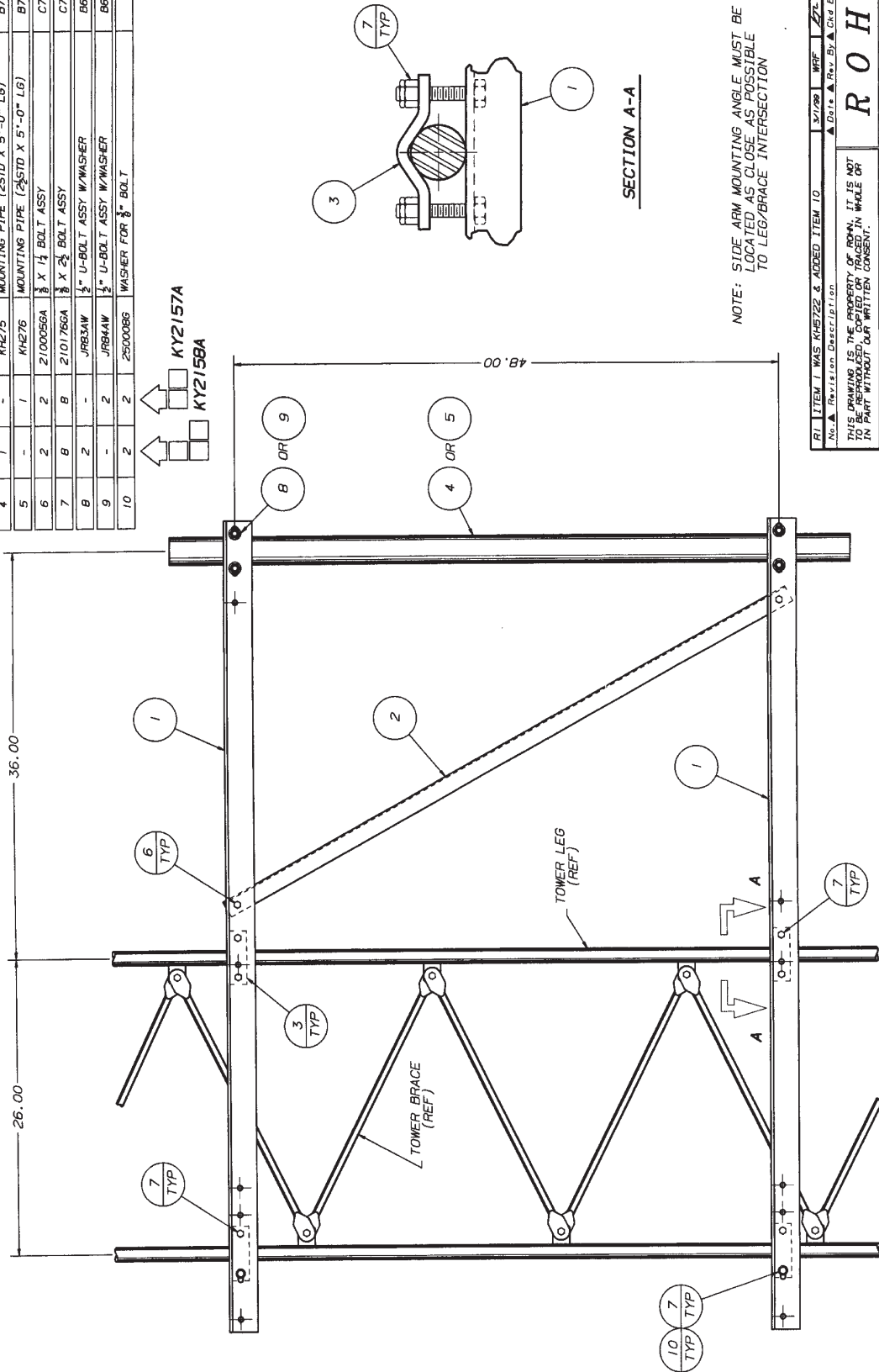
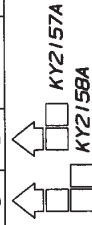
NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY

RI ITEM 1 WAS KH5722 & ADDED ITEM 10	3/1/98	WRF	ZPL	18A
No. Revision Description	Date	Rev By	Chk By	Appr By
<b>ROHN</b>				
3" SIDE ARM ASSY W/2" OR 2 1/2" MTG PIPE FOR 4NST SECTIONS				
Scale: NONE	By: WRF	Date: 12/23/97		
Drawn: KTL	1/19/98			
Checked: TS	1/19/98			
App. Eng.:				
Parent File:				
ENG. FILE:	DWG. NO. 1	C971983	01	REV.
				SHEET 1 OF 1

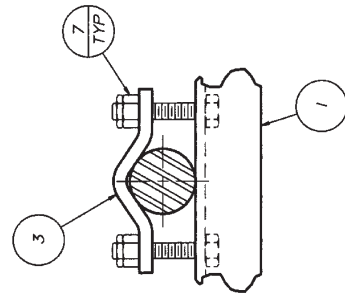


**BILL OF MATERIAL**

ITEM	QTY	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	2	2	KH5B14	MOUNTING ANGLE (L 2 1/2" X 2 1/2" X 1 1/2")	C971982
2	1	1	KH5Z23	SUPPORT ANGLE (L 1 1/2" X 1 1/2" X 1/2")	C971982
3	4	4	D114	SADDLE CLAMP	B770214
4	1	-	KH275	MOUNTING PIPE (2STD. X 5'-0" LG)	B770160
5	-	1	KH276	MOUNTING PIPE (2STD. X 5'-0" LG)	B770160
6	2	2	Z100056A	3/8" X 1 1/2" BOLT ASSY	C770404
7	8	8	Z10176GA	3/8" X 2 1/2" BOLT ASSY	C770404
8	2	-	JRB3AW	1/2" U-BOLT ASSY W/WASHER	B651028
9	-	2	JRB4AW	1/2" U-BOLT ASSY W/WASHER	B651028
10	2	2	Z500066	WASHER FOR 3/8" BOLT	N/A



**SECTION A-A**



NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG/BRACE INTERSECTION

RI ITEM 1 WAS KH5Z22 & ADDED ITEM 10  
 No. ▲ Revision Description  
 Date  
 By  
 WRF 12/23/97  
 KTL 1/19/98  
 TS 1/19/98  
 App. Eng.:

DATE: 3/7/98  
 WRF  
 Rev. By: Ctd By: App. By: JJA

**R O H N**

3" SIDE ARM ASSY W/2" OR 2 1/2" MTG PIPE FOR 4INST SECTIONS

ENG. NO.: C971983  
 SHEET 1 OF 1

NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 300 LBS LATERAL THRUST

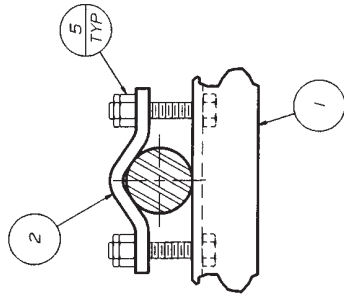
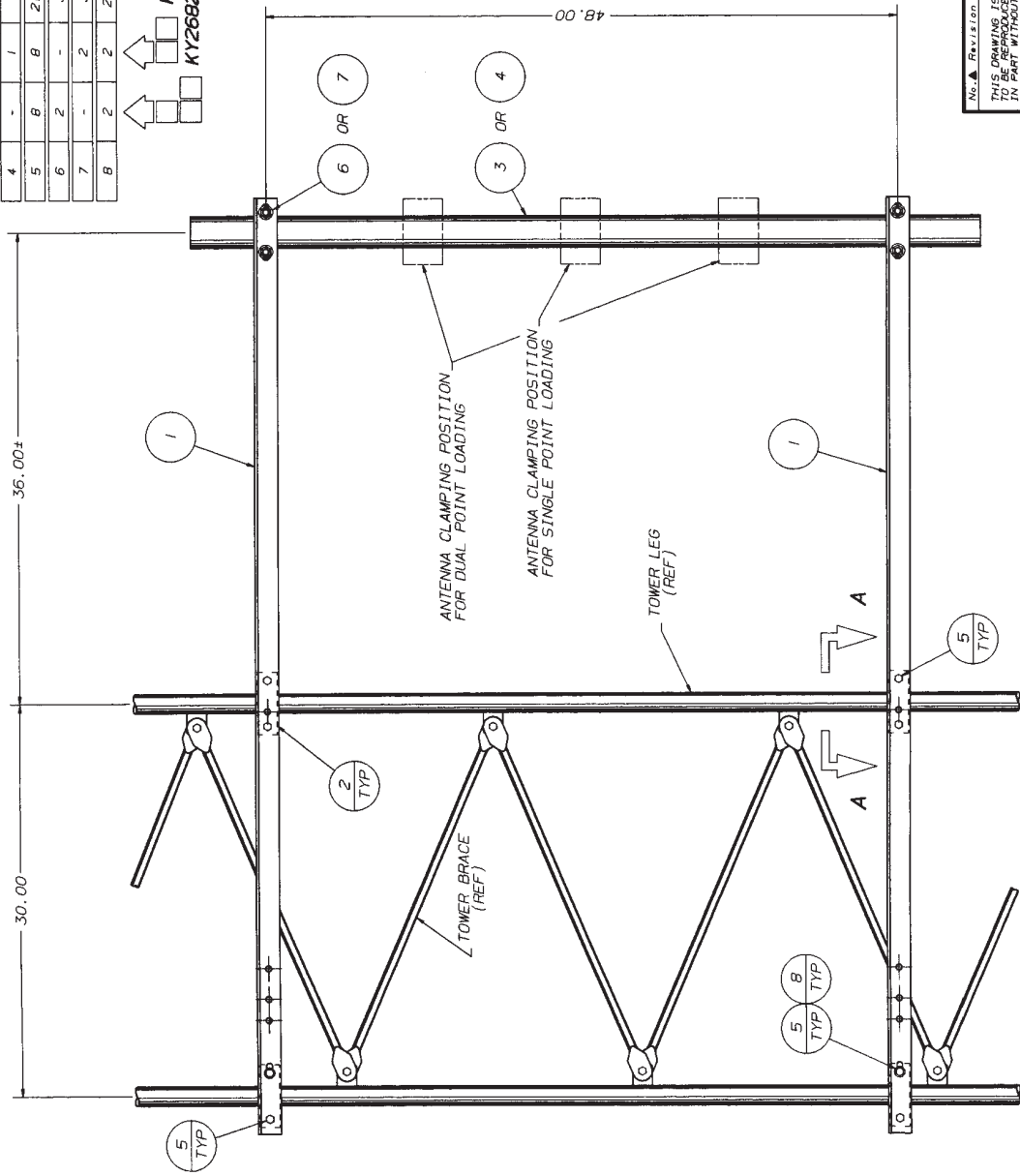
NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY



**BILL OF MATERIAL**

ITEM	QUAN.	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	2	KH581B	MOUNTING ANGLE (L 1 1/2" X 1 1/2" X 3/8")	C991136
2	4	4	D114	SAODLE CLAMP	B770214
3	1	-	KH275	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
4	-	1	KH276	MOUNTING PIPE (2 1/2STD X 5'-0" LG)	B770160
5	8	8	2101765A	3/8" X 2 1/2" BOLT ASSY	C770404
6	2	-	JRB3AW	3/4" U-BOLT ASSY W/WASHER	B651028
7	-	2	JRB4AW	1/2" U-BOLT ASSY W/WASHER	B651028
8	2	2	250008G	WASHER FOR 3/8" BOLT	N/A

KY2681A  
 KY2682A



SECTION A-A

NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG/BRACE INTERSECTION

No. **▲** Revision Description **▲** Date **▲** Rev. By **▲** Ck. By **▲** App. By  
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Scale: N/A	By: WRF	Date: 6/28/99
Drawn: WRF	Checked: KZ	7/8/99
App. Eng.: TJ	App. Eng.: TJ	7/8/99

**ROHN**  
**3" SIDE ARM ASSY W/2" OR 2 1/2" MTG PIPE FOR 5ST SECTIONS**  
 ENG. NO.: C991135  
 SHEET 1 OF 1

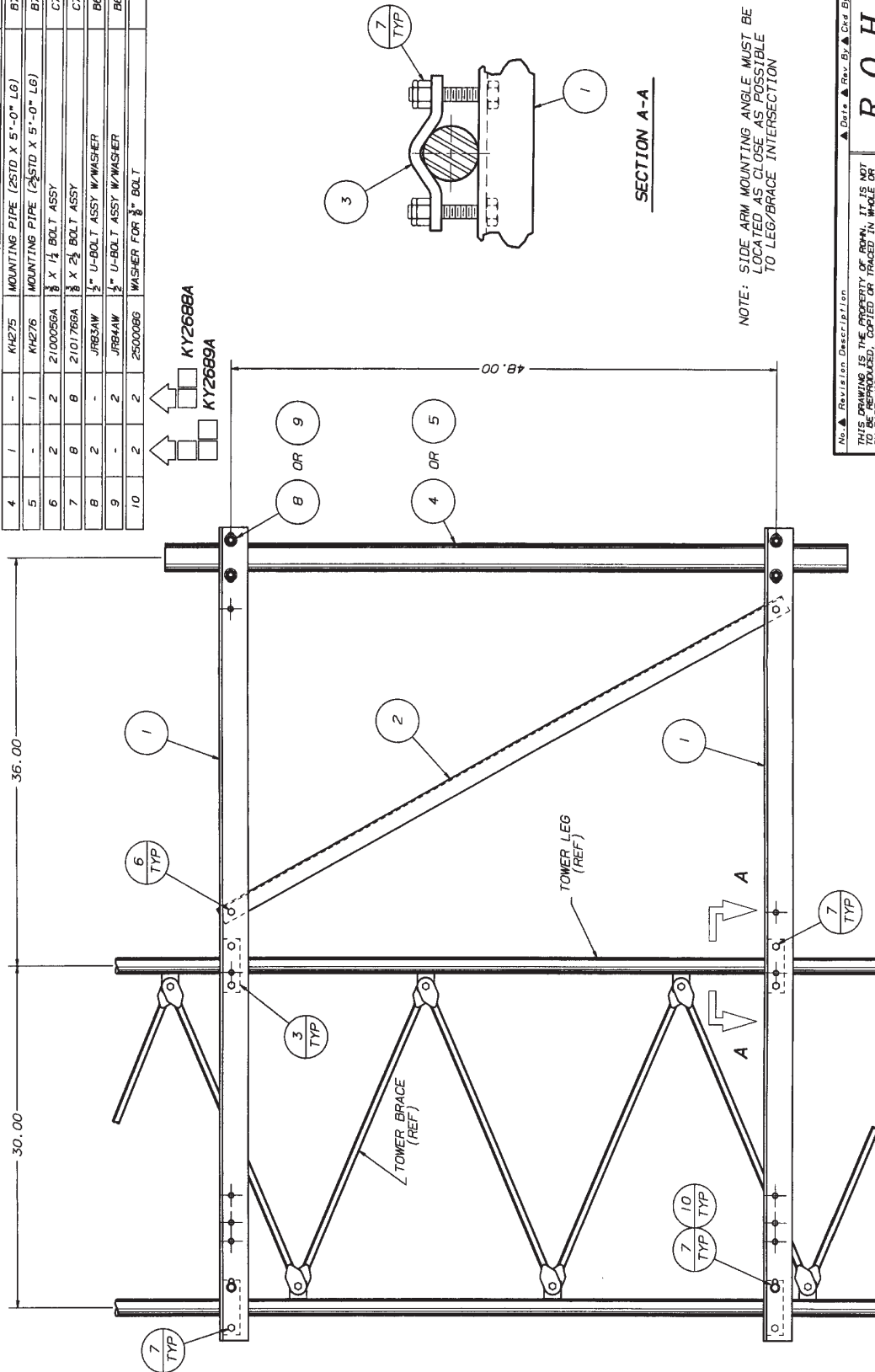
NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 200 LBS LATERAL THRUST

NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OMITTED FOR CLARITY



**BILL OF MATERIAL**

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	KH5B14	MOUNTING ANGLE (L 2 1/2" X 2 1/2" X 1/4")	C971982
2	1	KH5723	SUPPORT ANGLE (L 1 1/2" X 1 1/2" X 1/4")	C971982
3	4	D114	SADDLE CLAMP	B770214
4	1	KH275	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
5	-	KH276	MOUNTING PIPE (2STD X 5'-0" LG)	B770160
6	2	2100056A	3/8" X 1 1/2" BOLT ASSY	C770404
7	6	2101766A	3/8" X 2 1/2" BOLT ASSY	C770404
8	2	JR63AW	1/2" U-BOLT ASSY W/WASHER	B651029
9	-	JR64AW	1/2" U-BOLT ASSY W/WASHER	B651029
10	2	2500086	WASHER FOR 3/8" BOLT	N/A



NOTE: SIDE ARM MOUNTING ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG/BRACE INTERSECTION

NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 300 LBS LATERAL THRUST

NOTE: OUTSTANDING LEGS OF TOWER HAS BEEN OMITTED FOR CLARITY

No. Revision Description		Date		Rev. By		Chk. By		Appd. By	
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.									
Scale:		None		Date:		R O H N			
Drawn:		WFP		3/1/99		3' SIDE ARM ASSY W/2" OR 2 1/2" MTG PIPE FOR 5NST SECTIONS			
Checked:		KZ		3/10/99		ENG. NO.: C990773			
App. Eng.:		HA		3/11/99		SHEET 1 OF 1			
Parent File:									





## WAVEGUIDE SUPPORT



### Waveguide Ladder Assembly

ROHN Waveguide Ladder assemblies come in 10 ft. or 20 ft. sections with pre-punched rungs in two variations, 8 or 15 holes, with both 7/16" diameter holes to accommodate butterfly hangers and 3/4" diameter holes to accept snap-in hangers. These ladders can be ordered with either 3 ft. or 4 ft. rung spacing. The 8 hole ladder is 19-1/8" wide and the 15 hole ladder is 34-13/16" wide. Mounting clamp assemblies must be ordered separately based upon brace size to which it is to be attached. All items are hot dip galvanized.

### Special instructions on ordering Waveguide Ladders and Clamps

Waveguide ladder mounting clamp assemblies are included as part of the Waveguide Ladder but must be specified/ordered separately based upon brace size. See lower table on this page for part numbers and descriptions. Note there are tables for round and angle braces.

Part Number	Description
WL20F154KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 4 foot spacing
WL10F154KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 4 foot spacing
WL20F84KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 4 foot spacing
WL10F84KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 4 foot spacing
WL20F153KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 3 foot spacing
WL10F153KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 3 foot spacing
WL20F83KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 3 foot spacing
WL10F83KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 3 foot spacing

### Waveguide ladder mounting clamp assemblies for SSMW Towers

Assembly	For brace size (OD of round braces)	Assembly includes			
		Clamp	Qty	J bolt	Qty
WY3080A	1-1/2 to 2-3/8 inch	WY23	2	J44AA	4
WY3081A	2-7/8 to 3-1/2 inch	WY23	2	J51A	4
WY3082A	4 to 4-1/2 inch	WY24	2	J51A	4
WY3083A	5-9/16 inch	WY25	2	J51A	4
WY4559A	6-5/8 inch	WY4558	2	J51A	4

### Waveguide ladder mounting clamp assemblies for SSV Towers

Assembly	For brace size (Angle braces)	Assembly includes			
		Clamp	Qty	J bolt	Qty
KY693	1-1/2 inch	H173	2	J44AA	2
KY695	1-3/4 to 2-1/2 inch	H173	2	J51A	2
KY697	3 inch	H174	2	J51A	2
KY1287A	3-1/2 to 4 inch	H174	2	J170A	2



Detail



Detail



**20' W/G LADDER SECTION BILL OF MATERIAL (NL20F3X02)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	20" W/G LADDER RAIL	CB40372
2	7	WY6570	LADDER RUNG (9 HOLE)	C991003
3	2	WY3498	SPLICE PLATE	BB20688
4	4	2500088	3/8" WASHER	C770404
5	18	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

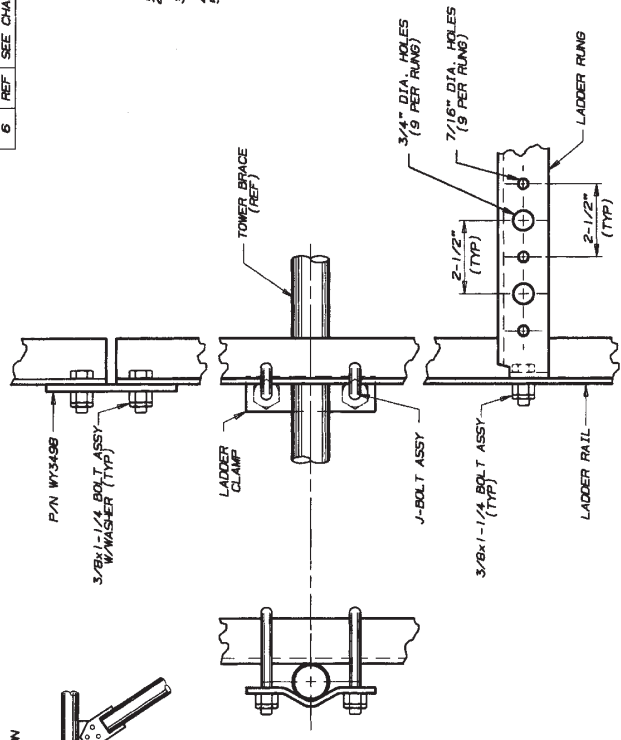
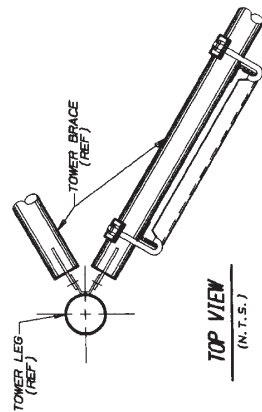
**10' W/G LADDER SECTION BILL OF MATERIAL (NL10F3X02)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10" W/G LADDER RAIL	CB40372
2	4	WY6570	LADDER RUNG (9 HOLE)	C991003
3	2	WY3498	SPLICE PLATE	BB20688
4	4	2500088	3/8" WASHER	C770404
5	12	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**W/G LADDER MOUNTING CLAMP ASSEMBLIES**

CLAMP ASSEMBLY P/N	TOWER BRACE SIZE (O.D.)	LADDER CLAMP		J-BOLT			
		P/N	DWG. NO.	QTY	DWG. NO.		
WY3080A	1-1/2"-2-3/8"	WY23	SK7303528	2	J444A	B2942A	4
WY3081A	2-7/8"-3-1/2"	WY23	SK7303528	2	J51A	B2947	4
WY3082A	4"-4-1/2"	WY24	SK7303528	2	J51A	B2947	4
WY3083A	5"-9-1/16"	WY25	SK7303528	2	J51A	B2947	4
WY4589A	6"-5-9/8"	WY4589	B831316	2	J51A	B2947	4

**CLAMP ASSEMBLY ORDERING INFO**  
 ORDER J CLAMP ASSEMBLY (SEE BRACE SIZE) FOR EACH HORIZONTAL BRACE THAT THE W/G LADDER CROSSES.



- GENERAL NOTES**
1. SPACE LADDER CLAMPS AS SHOWN.
  2. THE W/G LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
  3. ALIGNMENT MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
  4. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES. W/G HOLES MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.

NOTE: IF CIRCULAR W/G IS USED, THREADED ADAPTERS PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/G'S ON LADDER.

RI	REVISED PART NUMBER	7-26-99	JDM	1/2	AK
No.	Revision Description	Date	Rev By	Chg By	Appr By
<b>R O H N</b>					
<b>LADDER ASSY W/G FACE MTD FOR SSW TOWERS 9 HOLE 3" KD 2.50" O.C. 3/4" &amp; 7/16" DIA.</b>					
Scale:	None	By:	SRH	Date:	05/10/99
Drawn:		Checked:	JDM	Date:	5-12-99
App. Eng.:	TS	Date:	6-15-99	Eng. File:	C991021
Parent File:				DWG. NO.:	C991021
				SHEET:	1 OF 1
				REV.	1



**20' W/6 LADDER SECTION BILL OF MATERIAL (ML20F123K0)**

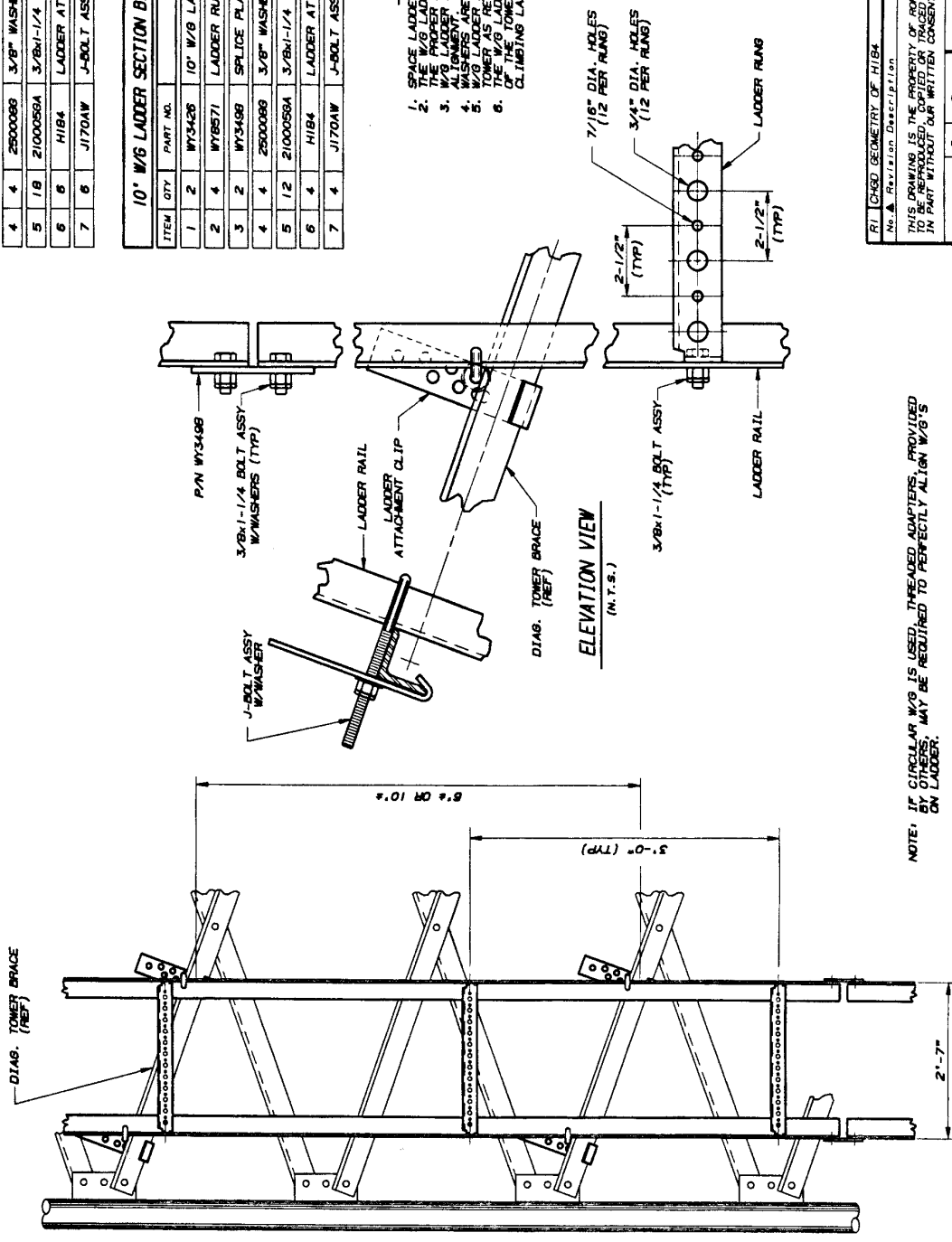
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20' W/6 LADDER RAIL	CB40372
2	7	WY8571	LADDER RUNG (12 HOLE)	C991005
3	2	WY3498	SPLICE PLATE	B620669
4	4	2500069	3/8" WASHER	C770404
5	18	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	6	H184	LADDER ATTACHMENT CLIP	B991809
7	6	J170AW	J-BOLT ASSY W/WASHER	A991694

**10' W/6 LADDER SECTION BILL OF MATERIAL (ML10F123K0)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10' W/6 LADDER RAIL	CB40372
2	4	WY8571	LADDER RUNG (12 HOLE)	C991005
3	2	WY3498	SPLICE PLATE	B620669
4	4	2500069	3/8" WASHER	C770404
5	12	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	4	H184	LADDER ATTACHMENT CLIP	B991809
7	4	J170AW	J-BOLT ASSY W/WASHER	A991694

**GENERAL NOTES**

1. SPACE LADDER CLIPS AS SHOWN. FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
2. THE W/6 LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
3. ATTACHMENT CLIP MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
4. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
5. W/6 LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF THE TOWER.
6. THE W/6 LADDER MUST BE OFFSET FROM THE CENTER OF THE TOWER WHEN USED WITH A FACE MOUNTED CLIMBING LADDER FOR REQUIRED CLEARANCES.



REVISED GEOMETRY OF H184	DATE	BY	DATE
No. 1	12/20/00	JLM	12/20/00
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<b>ROHN</b> LADDER ASSY W/G FACE MTD FOR SSV TOWERS 12 HOLE 3' KD 2.50" O.C. 3/4" & 7/16" DIA.		ENG. FILE: DWG. NO.: C991007 01 SHEET 1 OF 1 REV.	



**20" W/6 LADDER SECTION BILL OF MATERIAL (NL20F124ND)**

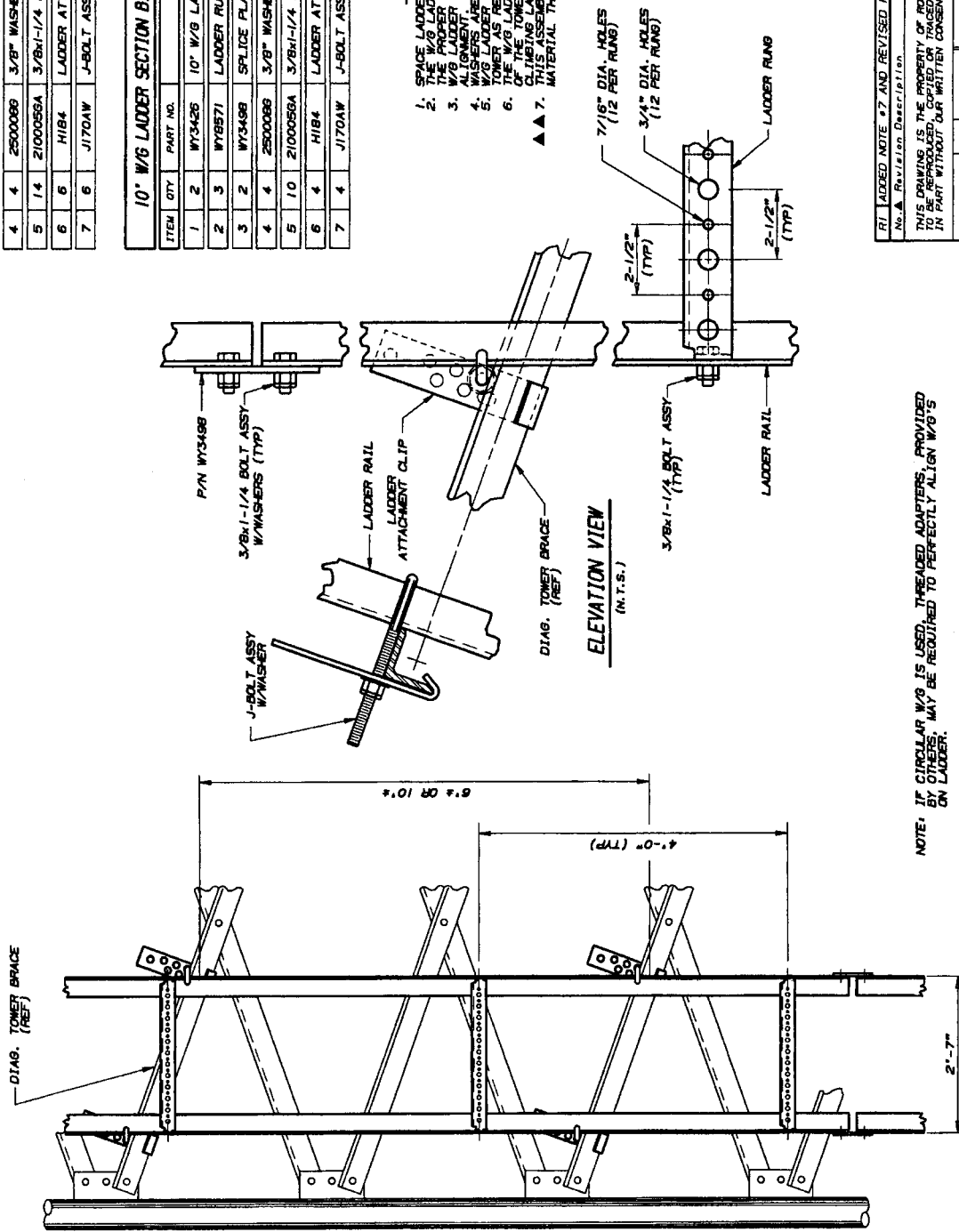
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20" W/6 LADDER RAIL	C840372
2	5	WY8571	LADDER RUNG (12 HOLE)	C981005
3	2	WY3498	SPLICE PLATE	B820868
4	4	2500088	3/8" WASHER	C770404
5	14	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	6	H184	LADDER ATTACHMENT CLIP	B981808
7	6	J170AW	J-BOLT ASSY W/WASHER	A981894

**10" W/6 LADDER SECTION BILL OF MATERIAL (NL10F124ND)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10" W/6 LADDER RAIL	C840372
2	3	WY8571	LADDER RUNG (12 HOLE)	C981005
3	2	WY3498	SPLICE PLATE	B820868
4	4	2500088	3/8" WASHER	C770404
5	10	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	4	H184	LADDER ATTACHMENT CLIP	B981808
7	4	J170AW	J-BOLT ASSY W/WASHER	A981894

**GENERAL NOTES**

1. SPACE LADDER CLIPS AS SHOWN. FIELD CUTTING TO THE W/6 LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
2. THE PROPER LENGTH AFTER ASSEMBLY ALIGNMENT MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
3. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
4. W/6 LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.
5. TOWER BRACE MUST BE OFFSET FROM THE CENTER OF THE TOWER WHEN USED WITH A FACE MOUNTED CLIMBING LADDER FOR REQUIRED CLEARANCES.
6. THIS ASSEMBLY IS NOT TO BE USED FOR ANGLES USING MATERIAL THICKER THAN 3/8".



NOTE: IF CIRCULAR W/6 IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/6'S ON LADDER.

RT ADDED NOTE #7 AND REVISED PICTORIALLY 01/29/03 SRH / LK / Z

No. Revision Description Date Rev By App By

**ROHN**

LADDER ASSY W/G FACE MTD FOR SSV TOWERS 12 HOLE 4' KD 2.50" O.C. 3/4" & 7/16" DIA.

By Date  
SRH 05/10/99  
JDM 06/16/99

App. Eng.: TS 06/16/99

DWG. NO.: C991008

SHEET 1 OF 1

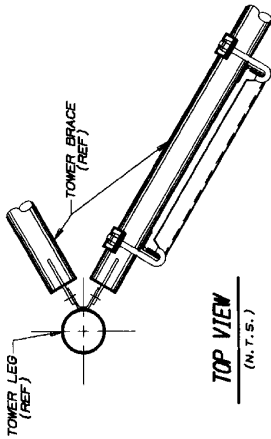


W/6 LADDER MOUNTING CLAMP ASSEMBLIES					
CLAMP ASSY P/N	TOWER BRACE SIZE (O.D.)	LADDER CLAMP		J-BOLT	
		P/N	QTY	P/N	QTY
WY3080A	1-1/2"-3-3/8"	WY23	2	J444A	2
WY3081A	2-7/8"-3-1/2"	WY23	2	J51A	2
WY3082A	4"-4-1/2"	WY24	2	J51A	2
WY3083A	5"-9-1/16"	WY25	2	J51A	2
WY4568A	6"-5-8"	WY4568	2	J51A	2

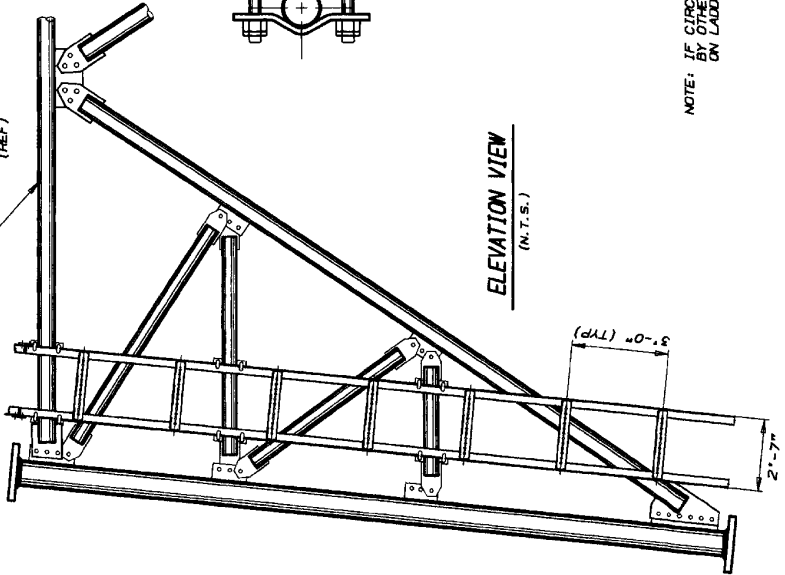
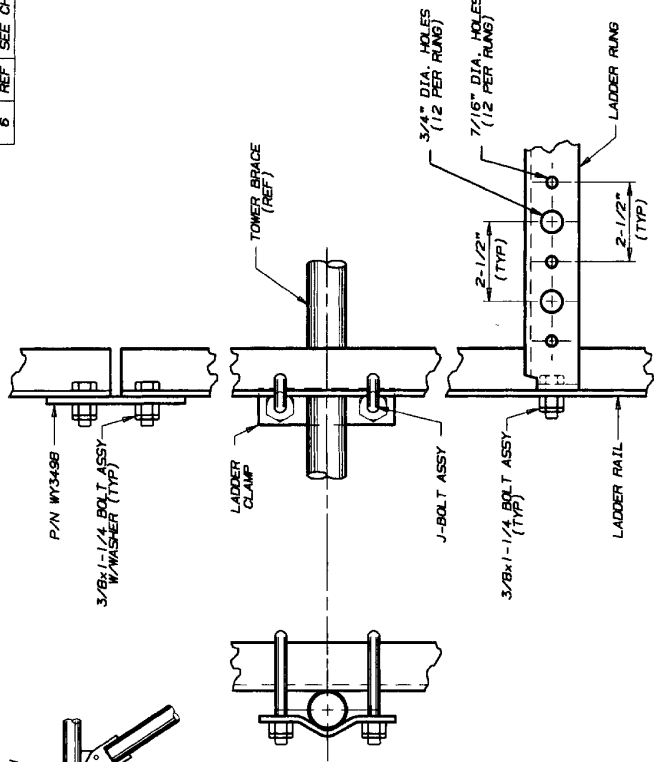
20' W/6 LADDER SECTION BILL OF MATERIAL (WL20F123K01)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20' W/6 LADDER RAIL	CB40372
2	7	WY8571	LADDER RUNG (12 HOLE)	C991005
3	2	WY3498	SPLICE PLATE	BE20888
4	4	2500086	3/8" WASHER	C770404
5	18	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**CLAMP ASSEMBLY ORDERING INFO**

ORDER 1 CLAMP ASSEMBLY (SEE BRACE SIZE) FOR EACH HORIZONTAL BRACE THAT THE W/6 LADDER CROSSES.



10' W/6 LADDER SECTION BILL OF MATERIAL (WL10F123K01)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	10' W/6 LADDER RAIL	CB40372
2	4	WY8571	LADDER RUNG (12 HOLE)	C991005
3	2	WY3498	SPLICE PLATE	BE20888
4	4	2500086	3/8" WASHER	C770404
5	12	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART



**GENERAL NOTES**

- SPACE LADDER CLAMPS AS SHOWN.
- THE PROCEEDING MAY REQUIRE CUTTING TO ALIGNMENT.
- W/6 LADDER MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
- WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
- WASHERS MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.

RI REVISED PART NUMBER	7-28-99	JDM	W/2	TS	
No. Revision Description	▲ Data ▲ Rev. By ▲ Chd By ▲ App. By				
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Scale: NONE	By: SRH	Date: 05/10/99	<b>ROHN</b>		
Drawn:	JDM	5-17-99			
Checked:	JDM	5-17-99			
Parent File:	TS	6-15-99			
LADDER ASSY W/6 FACE MTD FOR SSMW TOWERS 12 HOLE 3" KD 2.50" O.C. 3/4" & 7/16" DIA.			ENG. FILE:	DWG. NO.: C991019	
				I	REV.
				SHEET 1 OF 1	

NOTE: IF CIRCULAR W/6 IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/6'S ON LADDER.



**20' W/G LADDER SECTION BILL OF MATERIAL (ML20F12KD1)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20' W/G LADDER RAIL	C840372
2	5	WY8571	LADDER RUNG (12 HOLE)	C991005
3	2	WY3498	SPlice PLATE	B820889
4	4	2500086	3/8" WASHER	C770404
5	14	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**10' W/G LADDER SECTION BILL OF MATERIAL (ML10F12KD1)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10' W/G LADDER RAIL	C840372
2	3	WY8571	LADDER RUNG (12 HOLE)	C991005
3	2	WY3498	SPlice PLATE	B820889
4	4	2500086	3/8" WASHER	C770404
5	10	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**GENERAL NOTES**

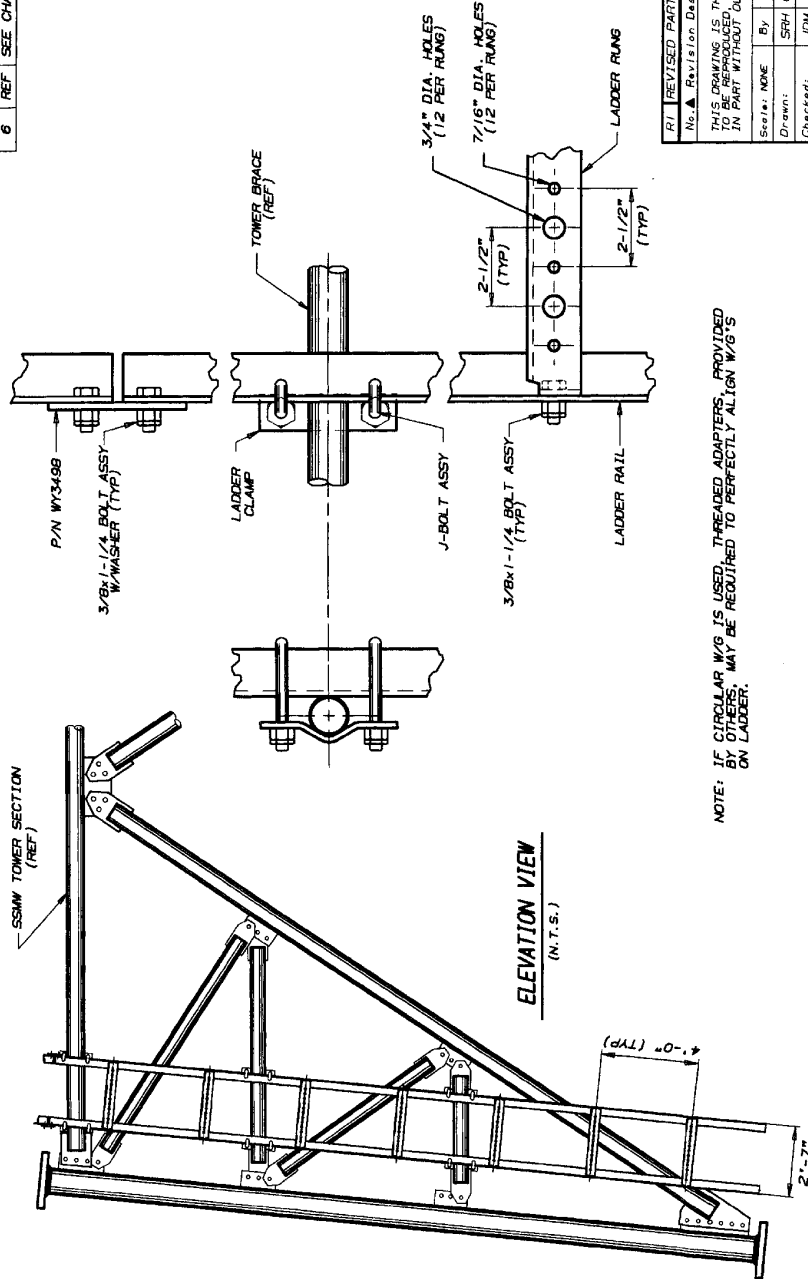
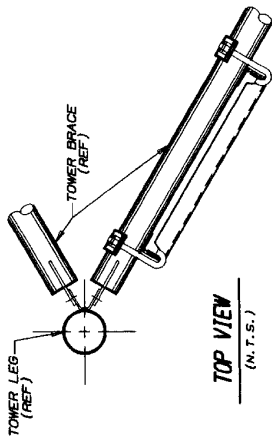
1. SPACE LADDER CLAMPS IS SHOWN, WELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
2. THE LADDER RUNG MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
3. ALL DIMENSIONS ARE PROVIDED FOR ALL SLOTTED HOLES.
4. W/G LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.

**W/G LADDER MOUNTING CLAMP ASSEMBLIES**

CLAMP ASS'Y P/N	TOWER SIZE (O.D.)	LADDER CLAMP P/N	DWG. NO.	QUAN.	J-BOLT P/N	DWG. NO.	QUAN.
WY3080A	1-1/2" - 2-3/8"	WY23	SK730352B	2	J444A	B2942A	4
WY3081A	2-7/8" - 3-1/2"	WY23	SK730352B	2	J51A	B2947	4
WY3082A	4" - 4-1/2"	WY24	SK730352B	2	J51A	B2947	4
WY3083A	5-9/16"	WY25	SK730356B	2	J51A	B2947	4
WY4559A	6-5/8"	WY4559	B831316	2	J51A	B2947	4

**CLAMP ASSEMBLY ORDERING INFO**

ORDER 1 CLAMP ASSEMBLY (SEE BRACE SIZE) FOR EACH HORIZONTAL BRACE THAT THE W/G LADDER CROSSES.



NOTE: IF CIRCULAR W/G IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/G'S ON LADDER.

REVISED PART NUMBER	7-88-88	JDM	JFL	JL
No. Revision Description	Date Rev. By. Ckd. By. App. By.			
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Scale: NONE	By: SRH	Date: 05/11/99	R O H N	
Drawn: SRH	Checked: JDM	5-12-99	LADDER ASSY W/G FACE MTD FOR SSMW TOWERS 12 HOLE 4" KD 2.50" O.C. 3/4" & 7/16" DIA.	
App. Eng.: TS	6-15-99	ENG. FILED:	DWG. NO.: C991020	1
Parent File:			SHEET 1 OF 1	REV.





20' W/G LADDER SECTION BILL OF MATERIAL (M.20FBKRD)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	2	WY3428	20' W/G LADDER RAIL	C840372
2	5	WY7460	LADDER RUNG (8 HOLE)	C901827
3	2	WY3498	SPRICE PLATE	B820888
4	4	2500088	3/8" WASHER	C770404
5	14	2100050A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLIP ASSY	SEE CHART

10' W/G LADDER SECTION BILL OF MATERIAL (M.10FBKRD)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	2	WY3428	10' W/G LADDER RAIL	C840372
2	3	WY7460	LADDER RUNG (8 HOLE)	C901827
3	2	WY3498	SPRICE PLATE	B820888
4	4	2500088	3/8" WASHER	C770404
5	10	2100050A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLIP ASSY	SEE CHART

- GENERAL NOTES**
- SPACE LADDER CLIPS AS SHOWN.
  - THE W/G LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
  - ALIGNMENT.
  - WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  - W/G LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF THE TOWER.
  - THE W/G LADDER MUST BE OFFSET FROM THE CENTER OF THE TOWER WHEN USED WITH A FACE MOUNTED CLIMBING LADDER FOR REQUIRED CLEARANCES.

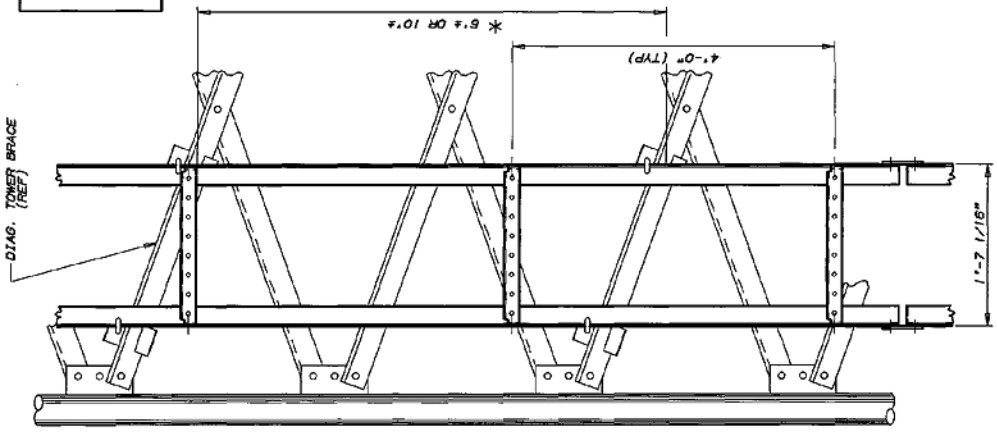
**W/G LADDER MOUNTING CLIP ASSEMBLIES**

CLIP ASSEMBLY P/N	TOWER RAIL SIZE (L)	J-BOLT	LADDER CLIP	DWG. NO.	P/N	Q/AM	D/AM
KY693	1-1/2"	H173	B820993	2	J444A	B2942A	2
KY695	1-3/4" & 1/2"	H173	B820983	2	J51A	B2947	2
KY697	3"	H174	B820993	2	J51A	B2947	2
KY1287A	3-1/2" & 1/4"	H174	B820993	2	J107A	B2910B	2

**\* CLIP ASSEMBLY ORDERING INFO \***

ALL SECTIONS EXCEPT 3 CLIP ASSYS (SEE BRACE SIZE) 12N 16N 18N ORDER EACH 20' TOWER SECTION OR 2 CLIP ASSYS FOR EACH 10' TOWER SECTION

12N, 13N, 14N, 15N & 16N: ORDER 2 CLIP ASSYS (SEE BRACE SIZE) WITH EACH 20' OR 10' TOWER SECTION



No. Revision Description  
 Title: **R O H N**  
 Date: 10/26/20  
 By: MEB  
 Drawn: MDR  
 Checked: JF  
 App. Eng.: JF  
 App. Supt.: JF  
 Date: 10/26/20  
 Date: 10/26/20  
 Date: 10/26/20

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LADDER ASSY W/G FACE MTD FOR SSV TOWERS 8" HOLE 4" KD 2.25" O.C. 3/4" & 7/16" DIA.  
 DRAWING NO.: C901828

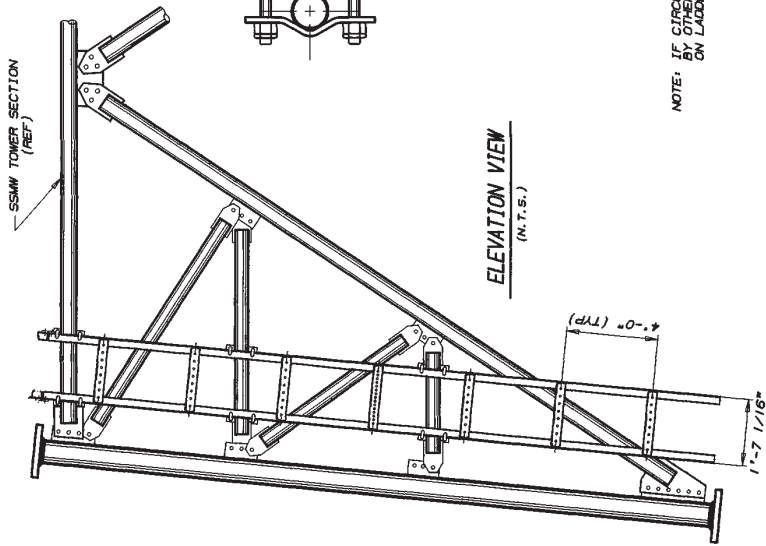
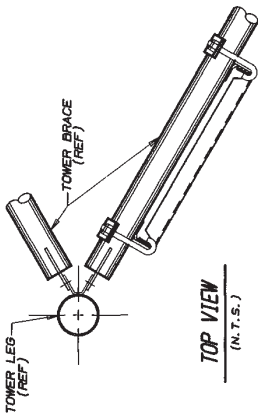
NOTE: IF CIRCULAR W/G IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/G'S ON LADDER.



**W/6 LADDER MOUNTING CLAMP ASSEMBLIES**

CLAMP ASSEMBLY P/N	TOWER BRACE SIZE (O.D.)	LADDER CLAMP		J-BOLT	
		P/N	DWG. NO.	QTY	DWG. NO.
WY30804	1-1/2" x 3-3/8"	WY23	SK7303528	2	J4444
WY30811	2-7/8" x 5-1/2"	WY23	SK7303528	2	J51A
WY30824	4" x 4-1/2"	WY24	SK7303528	2	J51A
WY30834	5-9/16"	WY25	SK7303528	2	J51A
WY48584	6-5/8"	WY458	B631316	2	J51A

**CLAMP ASSEMBLY ORDERING INFO**  
 ORDER 1 CLAMP ASSEMBLY (SEE BRACE SIZE) FOR EACH HORIZONTAL BRACE THAT THE W/6 LADDER CROSSES.



**20" W/6 LADDER SECTION BILL OF MATERIAL (ML20FBK0)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20" W/6 LADDER RAIL	CB40372
2	5	WY7460	LADDER RUNG (8 HOLE)	C901827
3	2	WY3498	SPLICE PLATE	B620688
4	4	2600086	3/8" WASHER	C770404
5	14	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**10" W/6 LADDER SECTION BILL OF MATERIAL (ML10FBK0)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10" W/6 LADDER RAIL	CB40372
2	3	WY7460	LADDER RUNG (8 HOLE)	C901827
3	2	WY3498	SPLICE PLATE	B620688
4	4	2600086	3/8" WASHER	C770404
5	10	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**GENERAL NOTES**

1. SPACE LADDER CLAMPS AS SHOWN.
2. THE W/6 LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
3. W/6 LADDER CLAMPS MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
4. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
5. W/6 LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.

No. **▲** Revision Description **▲** Date **▲** Rev. By **▲** Ck'd By **▲** App'd By

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Scale: NONE  
 Drawn: WEB 10/26/80  
 Checked: LOR 10/26/90  
 App. Eng.: J 10/26/90  
 App. Sales: T 10/26/90

Title: **R O H N**  
**LADDER ASSY W/6 FACE MTD FOR SSMW TOWERS 8 HOLE 4" KD 2.25" O.C. 3/4" & 7/16" DIA.**

DRAWING NO.: **C901829**

NOTE: IF CIRCULAR W/6 IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/6'S ON LADDER.



20' W/G LADDER SECTION BILL OF MATERIAL (WL20F154KD)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	W73425	20' W/G LADDER RAIL	C940372
2	5	W7459	LADDER RUNG (15 HOLE)	C901B22
3	2	W73498	SPLICE PLATE	B620868
4	4	2500088	3/8" WASHER	C770404
5	14	2100058A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLIP ASSY	SEE CHART

10' W/G LADDER SECTION BILL OF MATERIAL (WL10F154KD)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	W73426	10' W/G LADDER RAIL	C940372
2	3	W7459	LADDER RUNG (15 HOLE)	C901B22
3	2	W73498	SPLICE PLATE	B620868
4	4	2500088	3/8" WASHER	C770404
5	10	2100058A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLIP ASSY	SEE CHART

**GENERAL NOTES**

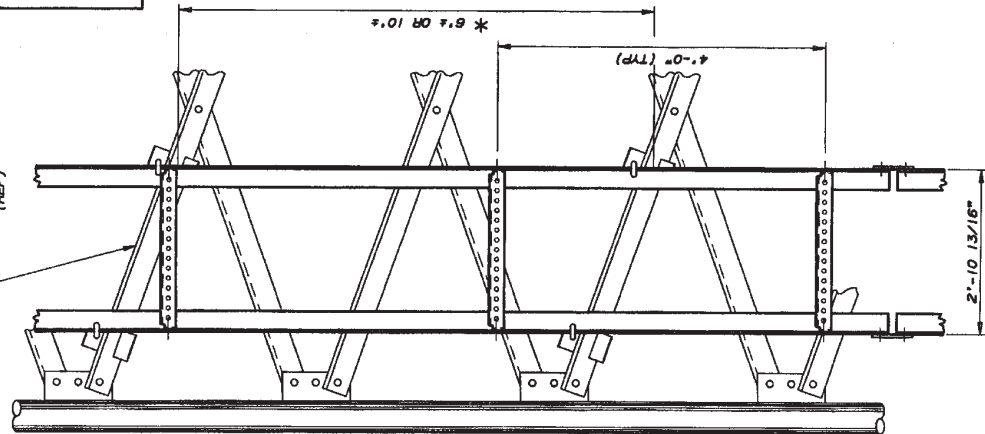
- SPACE LADDER CLIPS AS SHOWN.
- THE W/G LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
- W/G LADDER MAY BE MOVED HORIZONTALLY FOR PROPER CLEARANCE.
- WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
- W/G LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER.
- THE W/G LADDER MUST BE OFFSET FROM THE CENTER OF THE TOWER WHEN USED WITH A FACE MOUNTED CLIMBING LADDER FOR REQUIRED CLEARANCES.

W/G LADDER MOUNTING CLIP ASSEMBLIES			
CLIP ASSEMBLY P/N	TOWER BRACE SIZE (L)	J-BOLT	
		DWG. NO.	QTY
KY993	1-1/2"	H173	2
KY995	1-3/4"-2-1/2"	H173	2
KY997	3"	H174	2
KY1287A	3-1/2"-4"	H174	2

**\* CLIP ASSEMBLY ORDERING INFO**

ALL SECTIONS EXCEPT 12N THRU 16N, ORDER 3 CLIP ASSYS (SEE BRACE SIZE) WITH EACH 20' TOWER SECTION OR 2 CLIP ASSYS FOR EACH 10' TOWER SECTION.  
 12N, 15N & 16N, ORDER 2 CLIP ASSYS (SEE BRACE SIZE) WITH EACH 20' OR 10' TOWER SECTION.

DIAG. TOWER BRACE (REF)



NOTE: IF CIRCULAR W/G IS USED, THREADED ADAPTERS, PROVIDED ON LADDER, MAY BE REQUIRED TO PERFECTLY ALIGN W/G'S ON LADDER.

RI REVISED B.O.M. 1-18-90 ACS L/177 -7S  
 No. ▲ Revision Description ▲ Date ▲ Rev. By ▲ Ckd. By ▲ Appr. By

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RoHN  
 Title:  
 Scale: NONE By: Date:  
 Drawn: WEB 10/24/90  
 Checked: WDU 10/26/90  
 App. Eng.: TS 10/26/90  
 App. Svr.: JC 10/26/90

LADDER ASSY W/G FACE MTD FOR  
 SSV TOWERS 15 HOLE 4" KD  
 2.25" O.C. 3/4" & 7/16" DIA.

DRAWING NO. 1. C901B18 RI



**20' W/G LADDER SECTION BILL OF MATERIAL (WL20F154KD)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20' W/G LADDER RAIL	CB40372
2	5	WY7459	LADDER RUNG (15 HOLE)	C901922
3	2	WY3499	SPLICE PLATE	BE20868
4	4	2500066	3/8" WASHER	C770404
5	14	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**10' W/G LADDER SECTION BILL OF MATERIAL (WL10F154KD)**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10' W/G LADDER RAIL	CB40372
2	3	WY7459	LADDER RUNG (15 HOLE)	C901922
3	2	WY3499	SPLICE PLATE	BE20868
4	4	2500066	3/8" WASHER	C770404
5	10	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

**GENERAL NOTES**

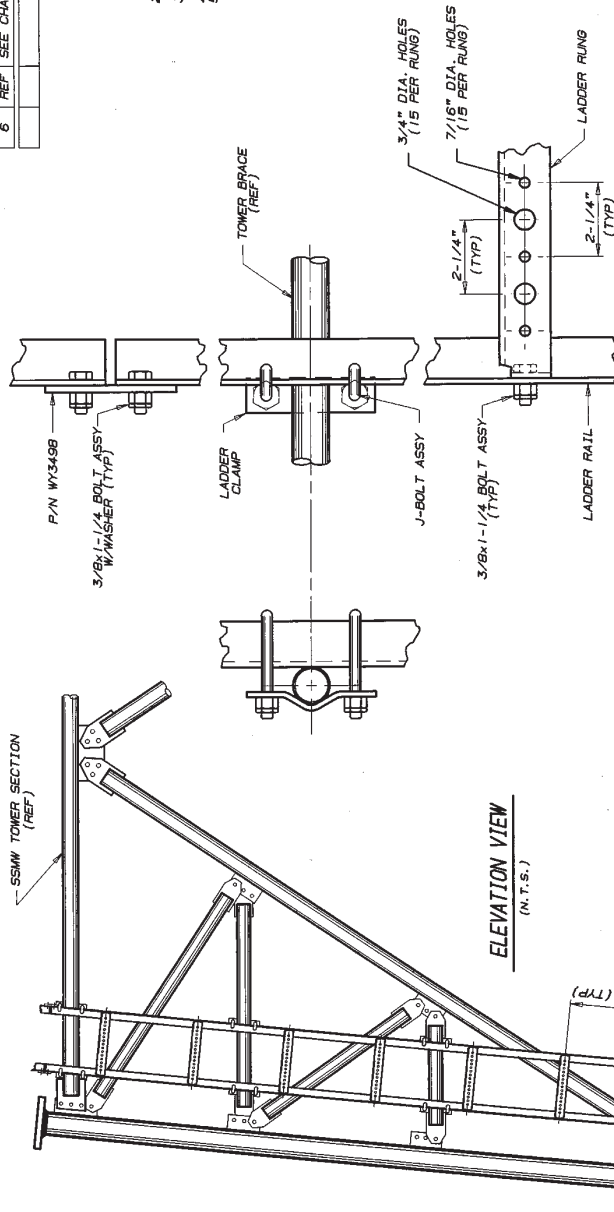
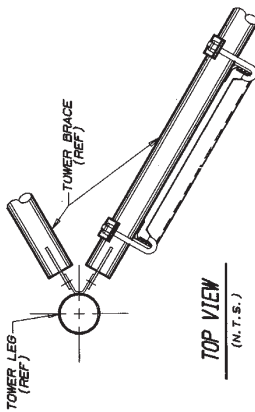
1. SPACE LADDER CLAMPS AS SHOWN.
2. THE W/G LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH.
3. THE PROPER LENGTH SHOULD BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
4. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
5. TOWER CLAMPS MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.

**W/G LADDER MOUNTING CLAMP ASSEMBLIES**

CLAMP ASSEMBLY P/N	TOWER BRACE SIZE (D.D.)	LADDER CLAMP		J-BOLT	
		P/N	DWG. NO.	QTY	DWG. NO.
WY3080A	1-1/2" x 3-3/8"	WY23	SK730352B	2	J444A
WY3081A	2-7/8" x 3-1/2"	WY23	SK730352B	2	J51A
WY3082A	4" x 4-1/2"	WY24	SK730352B	2	J51A
WY3083A	5-9/16"	WY25	SK730356B	2	J51A
WY4959A	6-5/8"	WY4959	BB31316	2	J51A

**CLAMP ASSEMBLY ORDERING INFO**

ORDER CLAMP ASSEMBLY (SEE BRACE SIZE) FOR EACH HORIZONTAL BRACE THAT THE W/G LADDER CROSSES.



NOTE: IF CIRCULAR W/G IS USED, THREADED ADAPTERS PROVIDED BY CUSTOMER MAY BE REQUIRED TO PERFECTLY ALIGN W/G'S ON LADDER.

Revision Description: \_\_\_\_\_ Date: \_\_\_\_\_ Rev. By: \_\_\_\_\_ Ckd. By: \_\_\_\_\_ Appr. By: \_\_\_\_\_

Title: **R O H N**

Scale: NONE

Drawn: WEB 10/24/90

Checked: MDL 10-26-90

App. Eng.: JF 10-26-90

App. Sales: JS 10-26-90

LADDER ASSY W/G FACE MTD FOR SSMW TOWERS 15 HOLE 4" KD 2.25" O.C. 3/4" & 7/16" DIA.

DRAWING NO.: **C901B19**

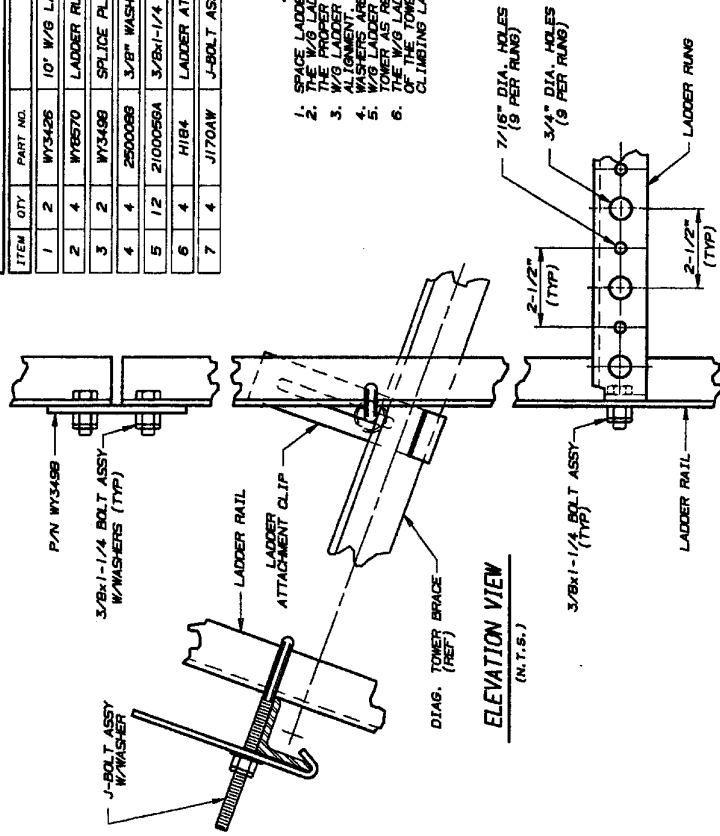
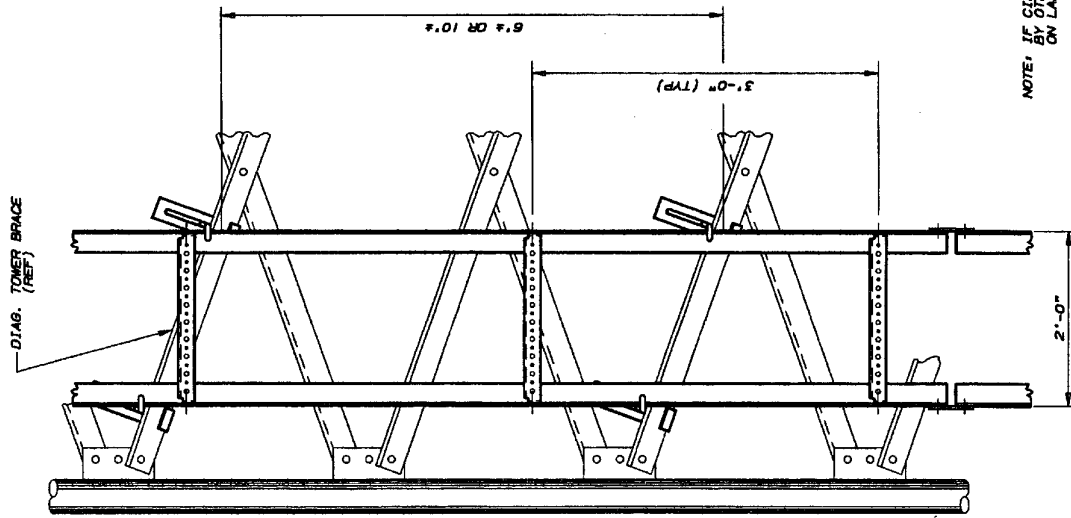


20' W/6 LADDER SECTION BILL OF MATERIAL (M.10F33KD)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20' W/6 LADDER RAIL	C840372
2	7	WY6570	LADDER RUNG (9 HOLE)	C991003
3	2	WY3498	SPRICE PLATE	B620689
4	4	2500068	3/8" WASHER	C770404
5	18	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	6	H184	LADDER ATTACHMENT CLIP	B991808
7	6	J1701W	J-BOLT ASSY W/WASHER	A991694

10' W/6 LADDER SECTION BILL OF MATERIAL (M.10F33KD)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	10' W/6 LADDER RAIL	C840372
2	4	WY6570	LADDER RUNG (9 HOLE)	C991003
3	2	WY3498	SPRICE PLATE	B620689
4	4	2500068	3/8" WASHER	C770404
5	12	2100056A	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	4	H184	LADDER ATTACHMENT CLIP	B991808
7	4	J1701W	J-BOLT ASSY W/WASHER	A991694

**GENERAL NOTES**

1. SPACE LADDER CLIPS AS SHOWN.
2. THE W/6 LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
3. ALIGNMENT MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
4. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
5. W/6 LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF THE W/6 TOWER.
6. THE W/6 LADDER MUST BE OFFSET FROM THE CENTER OF THE TOWER WHEN USED WITH A FACE MOUNTED CLIMBING LADDER FOR REQUIRED CLEARANCES.



NOTE: IF CIRCULAR W/6 IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/6'S ON LADDER.

No. $\Delta$ Revision Description		Date	Rev. By	Chk. By	App. By
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.					
Scale:	NONE	By:		Date:	
Drawn:	SRP	05/10/99			
Checked:	JDM	5-16-99			
App. Eng.:	JT	6-16-99			
Parent File:					
LADDER ASSY W/G FACE MTD FOR SSV TOWERS 9 HOLE 3" KD 2.50" O.C. 3/4" & 7/16" DIA.			<b>ROHN</b>		
DWG. NO.: C991017			SHEET 1 OF 1		





QTY	PART NO.	DESCRIPTION	DMG. NO.
1	NL 20	LADDER SECTION	SK-680905
2	KY 95	LADDER SPLICE PLATE	SK-680905
4	2100186A	1/2" x 1/2" BOLT ASS'Y.	C770404
REF.	SEE CHART	J-BOLT ASS'Y.	SEE CHART

CLIP ASSY	BRACE	LADDER CLIP (2 BOLT)	J-BOLT (2 BOLT)
PIN#	SIZE	PT. NO.	DMG. NO.
KY693	L 1 1/2"	H173	J444A B29 42A
KY693	L 1 3/4"	H173	J444A B29 42A
KY695	L 2"	H173	J51A B29 47
KY695	L 2 1/2"	H173	J51A B29 47
KY1287	L 3"	H174	J51A B29 47
KY1287A	L 3 1/2"	H174	J107A B29 108
KY1287A	L 4"	H174	B820993

QTY	PART NO.	DESCRIPTION	DMG. NO.
1	NL 20	LADDER SECTION	SK-680905
2	KY 95	LADDER SPLICE PLATES	SK-680905
4	2100186A	NO. 25 WINCH SADDLE CLAMP	C770214
4	2100186A	1/2" x 1/2" BOLT ASS'Y.	C770404
16	J444A	J-BOLT ASS'Y.	B29-42A

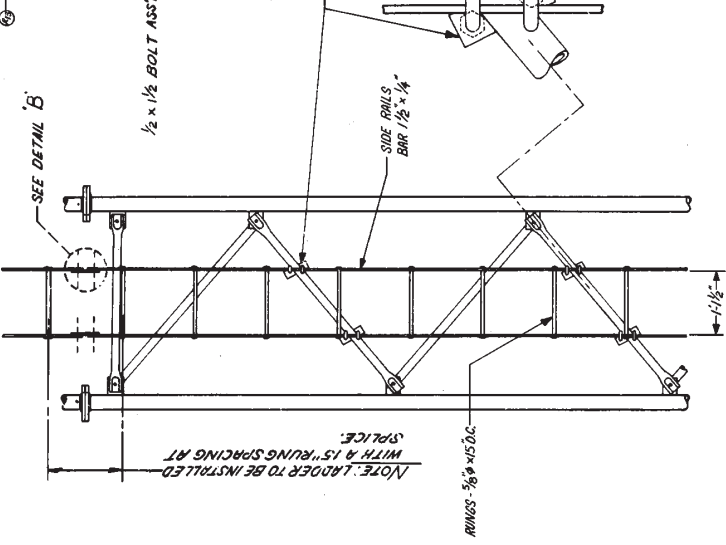
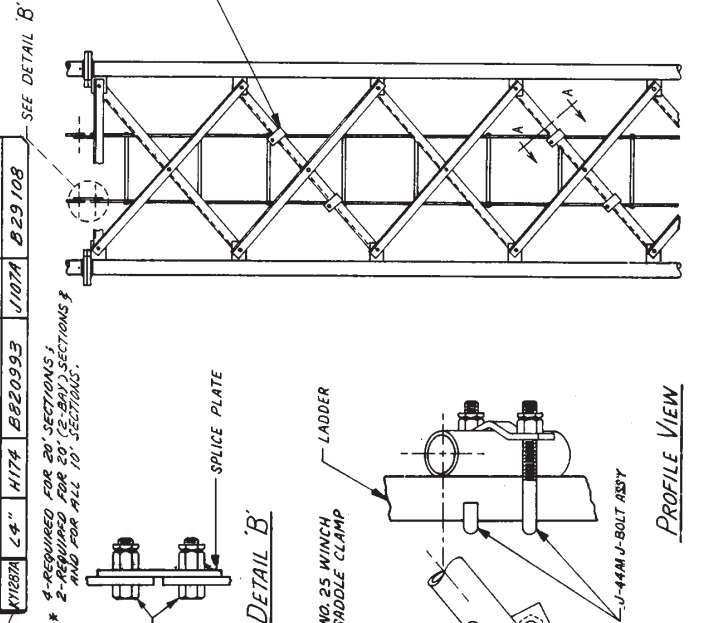
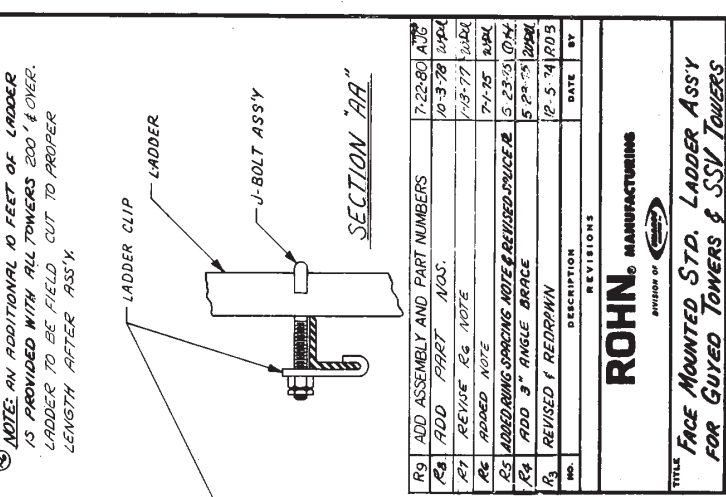
QTY	PART NO.	DESCRIPTION	DMG. NO.
1	NL 10	LADDER SECTION	SK-680905
2	KY 95	LADDER SPLICE PLATE	SK-680905
4	2100186A	NO. 25 WINCH SADDLE CLAMP	C770214
4	2100186A	1/2" x 1/2" BOLT ASS'Y.	C770404
8	J444A	J-BOLT ASS'Y.	B29-42A

**NOTES:**  
 1. LADDER CAN BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.  
 2. QUANTITIES LISTED ARE FOR ONE LADDER SECTION ONLY.  
 3. SPACE CLAMPS & CLIPS AS SHOWN.

**ANGULAR BRACING MOUNTING HARDWARE CHART**

NOTE: AN ADDITIONAL 10 FEET OF LADDER IS PROVIDED WITH ALL TOWERS 200' & OVER. LADDER TO BE FIELD CUT TO PROPER LENGTH AFTER ASS'Y.

NOTE: LADDER TO BE INSTALLED WITH A 15' RUNG SPACING AT SPLICE.



REV.	DESCRIPTION	DATE	BY
R9	ADD ASSEMBLY AND PART NUMBERS	7-22-80 AJB	
R8	ADD PART NOS.	10-3-78 WPL	
R7	REVISED PER NOTE	7-13-77 WPL	
R6	ADDED NOTE	7-1-75 WPL	
R5	ADDED BRACING SPACING NOTE & REVISED SPACE CL	5-23-75 WPL	
R4	ADD 3" ANGLE BRACE	5-24-75 WPL	
R3	REVISED F REDRAWN	12-5-74 RDS	

REV.	DESCRIPTION	DATE	BY
R3	ADDED MOUNTING HOLE FOR 3/8" (2 BOLT)	12-18-87 GML	
R2	ADDED ROHN-LOC NOTE	1-30-85 GML	
R1	REPLACED CLIP WERE USED TO HOLD HUBS	2-2-84 GML	
R0	J444 WAS U14A, REMOVED VISUERS	4-17-83 RKB	

REV.	DESCRIPTION	DATE	BY
R1	NO. 25 WINCH SADDLE CLAMP	12-17-74	
R2	NO. 25 WINCH SADDLE CLAMP	7-20-74	
R3	NO. 25 WINCH SADDLE CLAMP	7-26-74	

**ROHN MANUFACTURING**  
 DIVISION OF  
**FACE MOUNTED STD. LADDER ASSY FOR GUYED TOWERS & SSV TOWERS**

**ANGULAR BRACING**

**TUBULAR BRACING**

NOTE: IT IS RECOMMENDED A ROHN-LOC SAFETY DEVICE BE PROVIDED WITH LADDER INSTALLATIONS FOR ADDED CLIMBER SAFETY.





ASSY. PIN VY3092A (10' SECTION) FOR 1 1/2" - 2 1/2" BRACE

ITEM	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NL10	10'-0" LADDER SECTION	SK480905
2	2	KY95	LADDER SPICE PLATE	SK480905
3	2	VY3040	LADDER SUPPORT TUBE	B820864
4	4	Z10018GA	1/2" x 1 1/2" BOLT ASSY.	C770404
5	12	J44AA	3/8" J-BOLT ASSY.	B294ZA
6	4	KH91	SADDLE CLAMP	B70214
7	2	H173	LADDER CLIP	B820993

ASSY. PIN VY3093A (20' SECTION) FOR 1 1/2" - 2 1/2" BRACE

ITEM	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NL20	20'-0" LADDER SECTION	SK480905
2	2	KY95	LADDER SPICE PLATE	SK480905
3	2	VY3040	LADDER SUPPORT TUBE	B820864
4	4	Z10018GA	1/2" x 1 1/2" BOLT ASSY.	C770404
5	12	J44AA	3/8" J-BOLT ASSY.	B294ZA
6	4	KH91	SADDLE CLAMP	B70214
7	2	H173	LADDER CLIP	B820993

ASSY. PIN VY3094A (10' SECTION) FOR 3" - 4" BRACE

ITEM	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NL10	10'-0" LADDER SECTION	SK480905
2	2	KY95	LADDER SPICE PLATE	SK480905
3	2	VY3040	LADDER SUPPORT TUBE	B820864
4	4	Z10018GA	1/2" x 1 1/2" BOLT ASSY.	C770404
5	4	J51A	3/8" J-BOLT ASSY.	B294T
6	4	KH91	SADDLE CLAMP	B70214
7	2	J44AA	3/8" J-BOLT ASSY.	B294ZA
8	2	H174	LADDER CLIP	B820993

ASSY. PIN VY3095A (20' SECTION) FOR 3" - 4" BRACE

ITEM	QTY.	PART NO.	DESCRIPTION	DWG. NO.
1	1	NL20	20'-0" LADDER SECTION	SK480905
2	2	KY95	LADDER SPICE PLATE	SK480905
3	2	VY3040	LADDER SUPPORT TUBE	B820864
4	4	Z10018GA	1/2" x 1 1/2" BOLT ASSY.	C770404
5	4	J51A	3/8" J-BOLT ASSY.	B294T
6	4	KH91	SADDLE CLAMP	B70214
7	2	J44AA	3/8" J-BOLT ASSY.	B294ZA
8	2	H174	LADDER CLIP	B820993

NOTE: AN ADDITIONAL 10 FEET OF LADDER IS PROVIDED WITH ALL TOWERS 200 FEET AND OVER. LADDER IS TO BE FIELD CUT TO PROPER LENGTH AFTER INSTALLATION.

NO. 171 REVISION DESCRIPTION: 1-30-85 16LJW

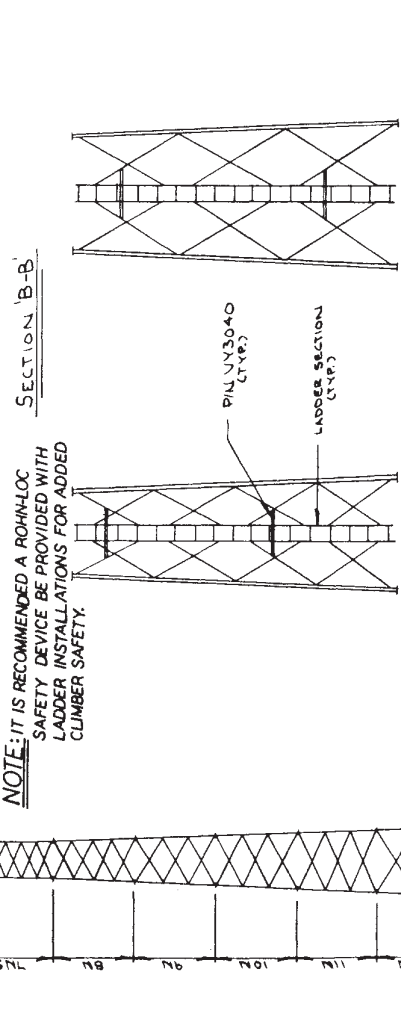
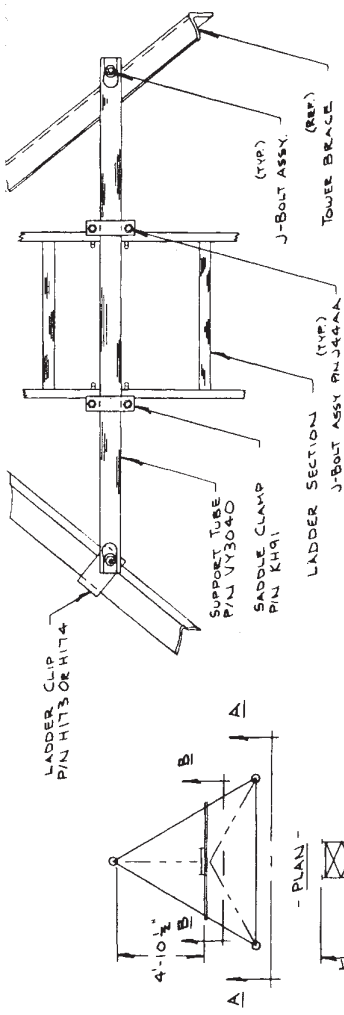
UNR-Rohn  
Division of UNR, Inc.

LADDER, ASSY INSIDE COR. (7NST - 16N)

Scale: NONE  
Tolerances: Fractions  
Material: Finish: Angles: Weight:

Drawn by: AWG Date: 12/29/85  
Checked by: JMW Date: 1/14/86  
Approved by: Engineering Date: 1/19/86  
Approved by: Production Date:

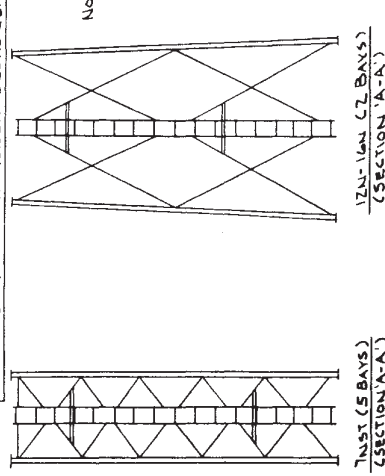
Approved by: Sales Date: 1-19-83  
Drawing Number: C821692 R1



NOTE: AN ADDITIONAL 10 FEET OF LADDER IS PROVIDED WITH ALL TOWERS 200 FEET AND OVER. LADDER IS TO BE FIELD CUT TO PROPER LENGTH AFTER INSTALLATION.

LADDER CONNECTION LOCATION CHART

20' SECTIONS	10' SECTIONS
SECT. ELEVATIONS	SECT. ELEVATIONS
7NST 5'-0", 16'-0"	7UST 1'-6", 9'-0"
8NBST 7'-0", 18'-0"	8UBST 2'-6", 8'-0"
9N 5'-0", 17'-6"	9U 1'-0", 7'-6"
10N 5'-0", 17'-6"	10U 1'-0", 7'-6"
11N 5'-0", 17'-6"	11U 1'-0", 7'-6"
12N 7'-0", 17'-0"	
13N 7'-0", 17'-0"	
14N 7'-0", 17'-0"	
15N 7'-0", 17'-0"	
16N 7'-0", 17'-0"	



NOTE: SECTION 'A-A' VIEWS ARE INCOMPLETE FOR CLARITY OF INSTALLATION



**ASSEMBLY BOLT INSTALLATION:**

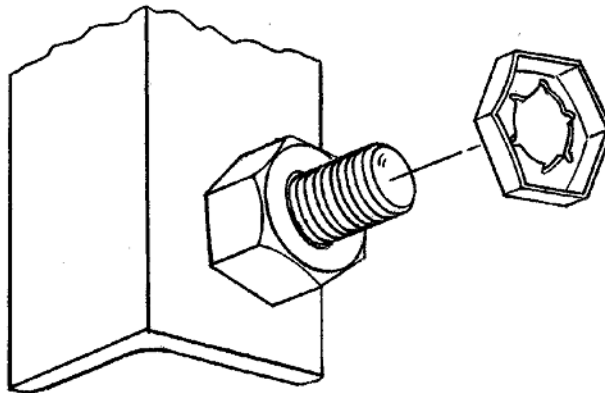
ALL TOWER ASSEMBLY BOLTS ARE TO BE INSERTED OUT AND/OR UP (I.E. WITH NUTS AND PAL NUTS ON OUTSIDE OF TOWER FACE AND/OR ON TOP OF FLANGE PLATES) UNLESS PROHIBITED BY LACK OF CLEARANCE

ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED IN ACCORDANCE WITH ANSI/EIA-222-E SECTION 1.1.3.2 - (WHERE HIGH-STRENGTH BOLTS ARE USED FOR BEARING-TYPE CONNECTIONS, AS A MINIMUM, THE BOLTS SHALL BE TIGHTENED TO A " SNUG TIGHT" CONDITION AS DEFINED IN THE NOVEMBER 13,1985, AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".)

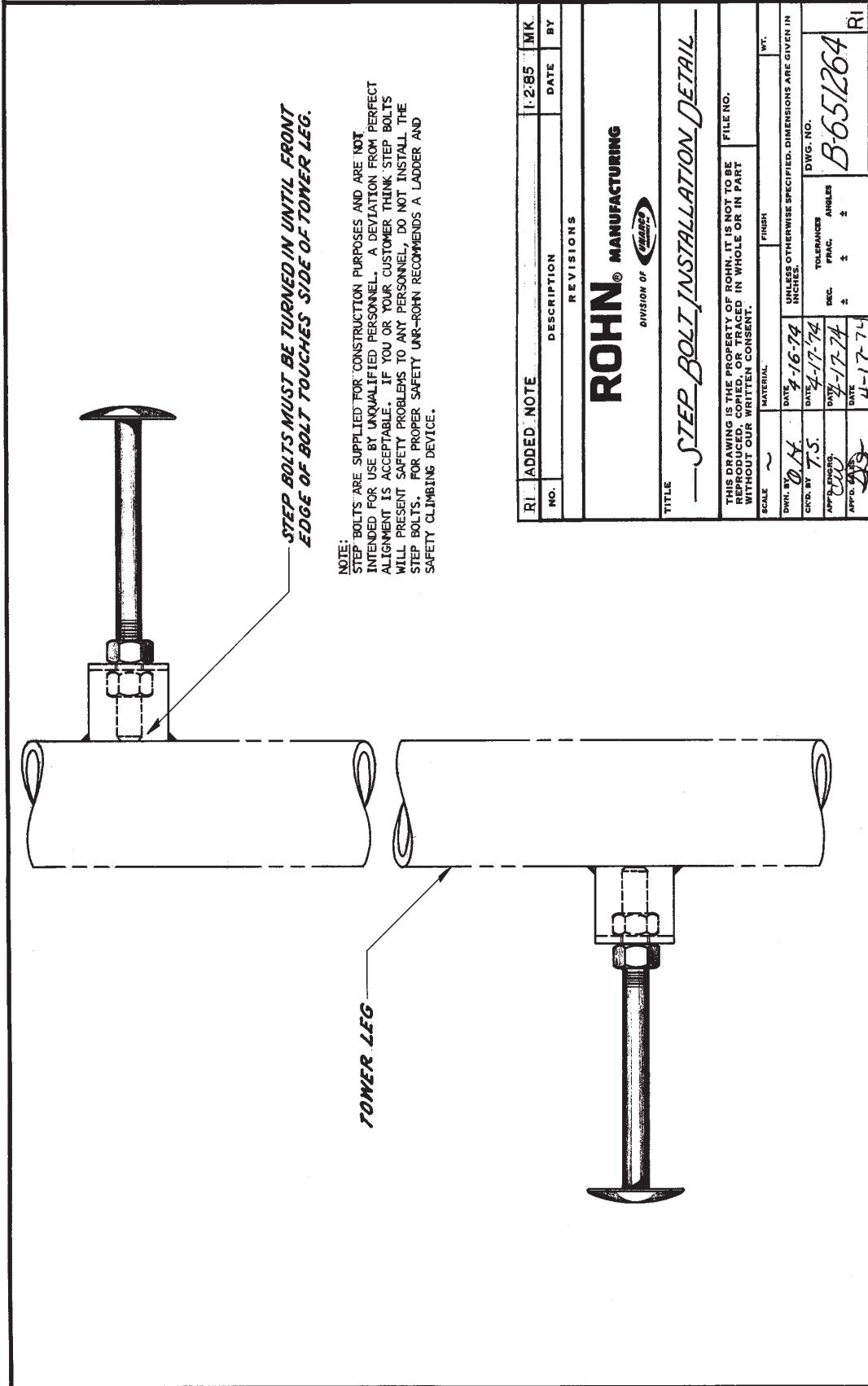
FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.  
 CAUTION: DO NOT OVER-TORQUE! GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS MAY ACT AS A LUBRICANT, THUS OVER-TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.

**PAL NUT INSTALLATION**

PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. (SEE PICTURE) PAL NUTS NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.



R2	UPGRADE FOR E.I.A. REV E	8-4-92	WPK/KZ
R1	UPGRADE FOR EIA REV. D	12-29-87	FHT/JHD
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>
Checked by	<i>AKB</i>	Date	<i>7-5-79</i>
Approved by Engineering	<i>TS</i>	Date	<i>7-5-79</i>
Approved by Production		Date	
Approved by Sales	<i>PAK</i>	Date	<i>7-10-79</i>
Tolerances		Decimals	Fractions
Angles		±	±
Material		Finish	Weight
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File Number		Drawing Number	
		<i>A 790135 R2</i>	



NOTE:  
STEP BOLTS ARE SUPPLIED FOR CONSTRUCTION PURPOSES AND ARE NOT INTENDED FOR USE BY UNQUALIFIED PERSONNEL. A DEVIATION FROM PERFECT ALIGNMENT IS ACCEPTABLE. IF YOU OR YOUR CUSTOMER THINK STEP BOLTS WILL PRESENT SAFETY PROBLEMS TO ANY PERSONNEL, DO NOT INSTALL THE STEP BOLTS. FOR PROPER SAFETY UNR-ROHN RECOMMENDS A LADDER AND SAFETY CLIMBING DEVICE.

RI	ADDED	NOTE	1:2:85	MK
NO.		DESCRIPTION	DATE	BY
REVISIONS				
<b>ROHN® MANUFACTURING</b>				
DIVISION OF				
TITLE <i>STEP BOLT INSTALLATION DETAIL</i>				
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.				
SCALE	MATERIAL	FINISH	FILE NO.	
DRAWN BY <i>QX</i>	DATE <i>4-16-74</i>	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.		
CHECK BY <i>TS</i>	DATE <i>4-17-74</i>	TOLERANCES	DWG. NO. <i>B-651264</i>	
APPROVED BY <i>RS</i>	DATE <i>4-17-74</i>	DEC. 2	ANGLES 2	
APPROVED BY <i>RS</i>	DATE <i>4-17-74</i>		RI	

PRINTED IN U.S.A.

GAF 880-250 2-72 48191

# ROHN™



Products

POLES



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY



## POLES

### CONSERVE VALUABLE LAND SPACE

ROHN offers a variety of pole types to meet your specific communication requirements. Our tapered steel, flanged steel, fiberglass and concrete poles all feature designs that blend well into the environment and require minimum space for installation. Specifically designed to your requirements, ROHN poles meet the stringent demands of today's communications environment.





# ROHN POLES

## MONOPOLES

Conserving valuable land space is paramount. ROHN offers a variety of monopole types to meet your specific communication needs. Our tapered and flanged steel poles feature designs that are aesthetically pleasing and blend well into the environment while requiring minimum space for installation. ROHN monopoles meet the stringent demands of today's communication environment.

## TAPERED STEEL POLES

ROHN Tapered Steel Poles are designed with base diameters from 2' to 6'. These minimal site requirements lower lease rates or acquisition costs. And these poles are designed for rapid installation, making them ready for service quickly while meeting the demands of today's PCS, cellular, and other communication environments.

Backed by one of the largest manufacturers of communication structures, with unmatched attention to detail and design, ROHN Tapered Steel Poles offer extremely efficient strength to cost ratio.

All ROHN Tapered Steel Poles are Hot Dip Galvanized for long lasting corrosion protection and full scale testing of the poles has been performed for research and safety purposes. ROHN provides structure and foundation design services with approved engineering documents, in any state, by a registered professional engineer.

### ADDITIONAL FEATURES OF ROHN TAPERED STEEL POLES

- Fast easy installation
- Rotatable mounting frames, platforms, sidearms
- Heights in excess of 200'
- Microwave capable
- Standard or custom designs
- Minimal space requirements
- Optional factory paint
- Internal routing of transmission lines
- Removable climbing steps
- Full line of accessories including: obstruction lighting, safety climbing systems, grounding and special antenna mounts

## SECURE SOLUTIONS

Camera surveillance equipment must be mounted on secure inaccessible structures. Particularly in remote and rural areas where tall buildings and typical mounting methods are not practical or are non-existent. Equally challenging, are sites that are heavily congested or in rough terrain. ROHN monopoles are the right fit for any site.

## SPORTS LIGHTING

Whatever your application - from little league baseball to a major league stadium, ROHN has a tapered steel pole to do the job. Poles are available with the traditional anchor base or for direct embedment. ROHN's engineering will select the proper pole based on your specific requirements, considering wind speed, luminaire size, weight and quantity.

## FLANGED STEEL POLES

ROHN Flanged Steel Poles are easy to handle and install. Precision fitted connections allow quick assembly of the modular sections and the top platform, sidearms or mounting frame. And ROHN Steel Poles are Hot Dip Galvanized for long lasting corrosion protection.



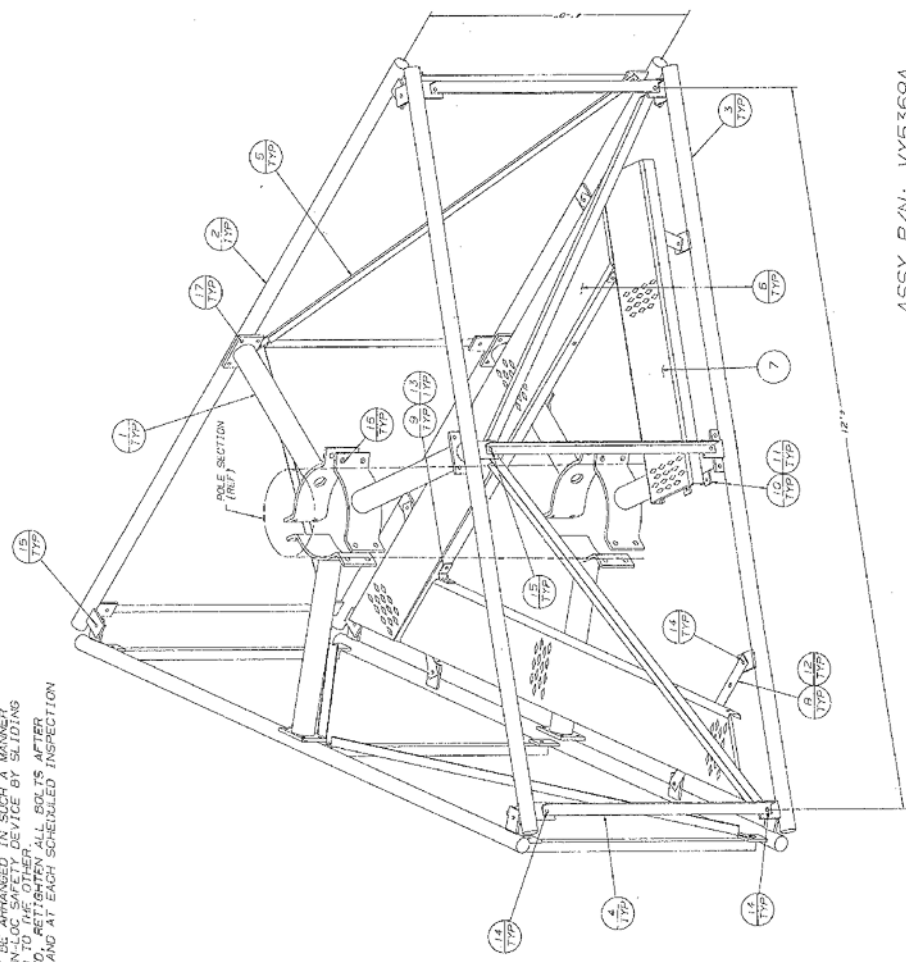




**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	6	174209	SIZE ANTI CLAMP	6262291
2	3	174203	UPPER MOUNTING PIPE	6262272
3	3	174205	LOWER MOUNTING PIPE	6262272
4	9	174205	VERTICAL BRACE	6262272
5	6	174206	WALKWAY PANEL	6262272
6	2	174207	WALKWAY PANEL	6262272
7	1	174208	WALKWAY SUPPORT ANGLE	6262272
8	3	174212	CLIP	6262293
9	2	174213	CLIP	6262293
10	2	174214	CLIP	6262293
11	2	174215	CLIP	6262293
12	8	444148	1/2" X 1/4" ANTI ROLLERS	6262293
13	4	2100725A	1/2" X 1/4" BEL. ASSY.	6262293
14	2	2100725B	1/2" X 1/4" BEL. ASSY.	6262293
15	2	2100725C	1/2" X 1/4" BEL. ASSY.	6262293
16	2	2100725D	1/2" X 1/4" BEL. ASSY.	6262293
17	12	210084	1/2" X 1/4" BEL. ASSY.	6262293

- GENERAL NOTES:**
1. WASHERS ARE PROVIDED WITH ALL SLOTTED HOLES.
  2. ITEM NUMBER 6 & 7 MAY BE ARRANGED IN SUCH A MANNER TO ACCOMMODATE THE POSE-LOC SWITCHER DEVICE BY SLIDING THE ANTENNA IN AND OUT.
  3. CHECK AND, IF REQUIRED, RETIGHTEN ALL BOLTS AFTER ANTENNA INSTALLATION AND AT EACH SCHEDULED INSPECTION THEREAFTER.



ASSY P/N: VY5369A

**ROHN**

POLE MOUNTING FRAME WITH WALKWAY FOR 36" POLE

12' H. X 12' W. X 12' D. (APPROX.)

ITEM NO. 6262291

REV. 1/14

DATE 1/14

BY [Signature]

CHKD [Signature]

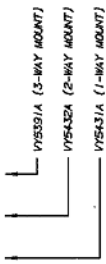
APP. [Signature]

DRW. NO. 0262291



**BILL OF MATERIAL**

ITEM	QUAN.	QUAN.	QUAN.	PART NO.	DESCRIPTION	OMP. NO.
1	1	2	3	VY5393	CLAMP W/SHORT	C22003
2	1	2	3	VY5218	CLAMP W/LATE (SHORT)	C260012
3	1	2	3	VY5218	CLAMP W/LATE (SHORT)	C260012
4	4	9	12	VY5218	CLAMP W/LATE (SHORT)	C260012
5	4	9	12	VY5218	CLAMP W/LATE (SHORT)	C260012
6	2	4	8	VY5218	CLAMP W/LATE (SHORT)	C260012
7	12	12	12	VY5218	CLAMP W/LATE (SHORT)	C260012
8	2	4	8	VY5218	CLAMP W/LATE (SHORT)	C260012
9	2	4	8	VY5218	CLAMP W/LATE (SHORT)	C260012
10	4	2	2	VY5218	CLAMP W/LATE (SHORT)	C260012

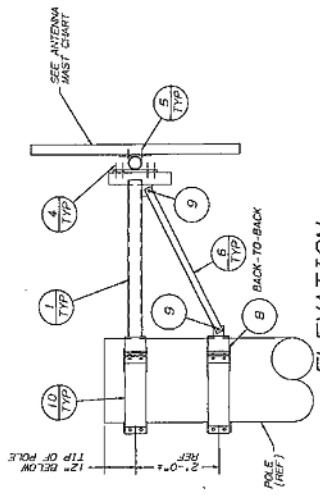
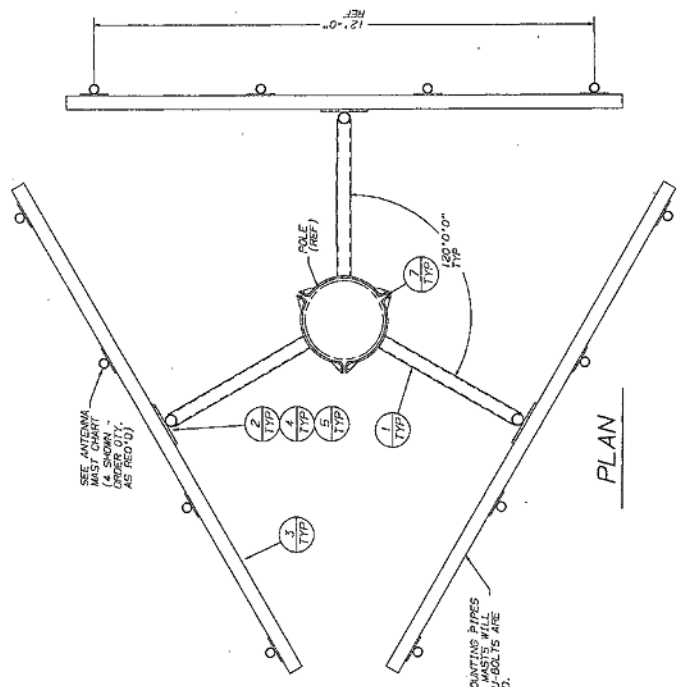


**ORDERING INFO:**

(1) ANTENNA MOUNT ASSY  
(AS REQ'D) ANTENNA MASTS

**ANTENNA MAST CHART**

QUAN.	DESCRIPTION	PART NO.
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A
1	2 STD. X 2.5 EH. X 1.0 LONG	VY5222/A



ST. NO.	ST. DESCRIPTION	DATE	BY	CHK.	APP.
1	REVISED	12-20-03	...	...	...
2	REVISED	12-20-03	...	...	...

BY: ...  
DATE: ...  
APP: ...

**ROHN**

ANTENNA MOUNT ASSY  
(24" DIA. STEEL POLE)

MANUFACT. NO. 1: D9802685-722



**ASSY P/N: VY5313A  
(FOR 16" POLE)**

**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	ENG. NO.
1	1	VY5309	ANTENNA MOUNTING ARM	070040
2	1	W0220	MOUNTING PIPE STD X 3" LONG	070040
3	1	VY5143	WAVE BRACKET	081181
4	1	VY5203	CLAMP W/ LUG	C06087
5	1	W0214	U-BOLT ASSY	051028
6	12	Z1003104	5/8" X 3" BOLT ASSY	C77044
7	6	Z1003104	5/8" X 3" BOLT ASSY	C77044
8	1	VY5203	CLAMP W/ LUG	081181
9	1	VY5203	CLAMP W/ LUG	081181
10	12	Z1003054	1/2" X 8" BOLT ASSY	C77044

**ASSY P/N: VY5314A  
(FOR 24" POLE)**

**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	ENG. NO.
1	1	VY5309	ANTENNA MOUNTING ARM	070040
2	1	W0272	MOUNTING PIPE STD X 3" LONG	051181
3	1	VY5143	WAVE BRACKET	081181
4	1	VY5203	CLAMP W/ LUG	081181
5	1	W0214	U-BOLT ASSY	051028
6	12	Z1003104	5/8" X 3" BOLT ASSY	C77044
7	6	Z1003104	5/8" X 3" BOLT ASSY	C77044
8	1	VY5203	CLAMP W/ LUG	081181
9	1	VY5203	CLAMP W/ LUG	081181
10	12	Z1003054	1/2" X 8" BOLT ASSY	C77044

**ASSY P/N: VY5317A  
(FOR 16" POLE)**

**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	ENG. NO.
1	1	VY5309	ANTENNA MOUNTING ARM	070040
2	1	W0272	MOUNTING PIPE STD X 3" LONG	051181
3	1	VY5143	WAVE BRACKET	081181
4	1	VY5203	CLAMP W/ LUG	C06087
5	1	W0214	U-BOLT ASSY	051028
6	12	Z1003104	5/8" X 3" BOLT ASSY	C77044
7	6	Z1003104	5/8" X 3" BOLT ASSY	C77044
8	1	VY5203	CLAMP W/ LUG	081181
9	1	VY5203	CLAMP W/ LUG	081181
10	12	Z1003054	1/2" X 8" BOLT ASSY	C77044

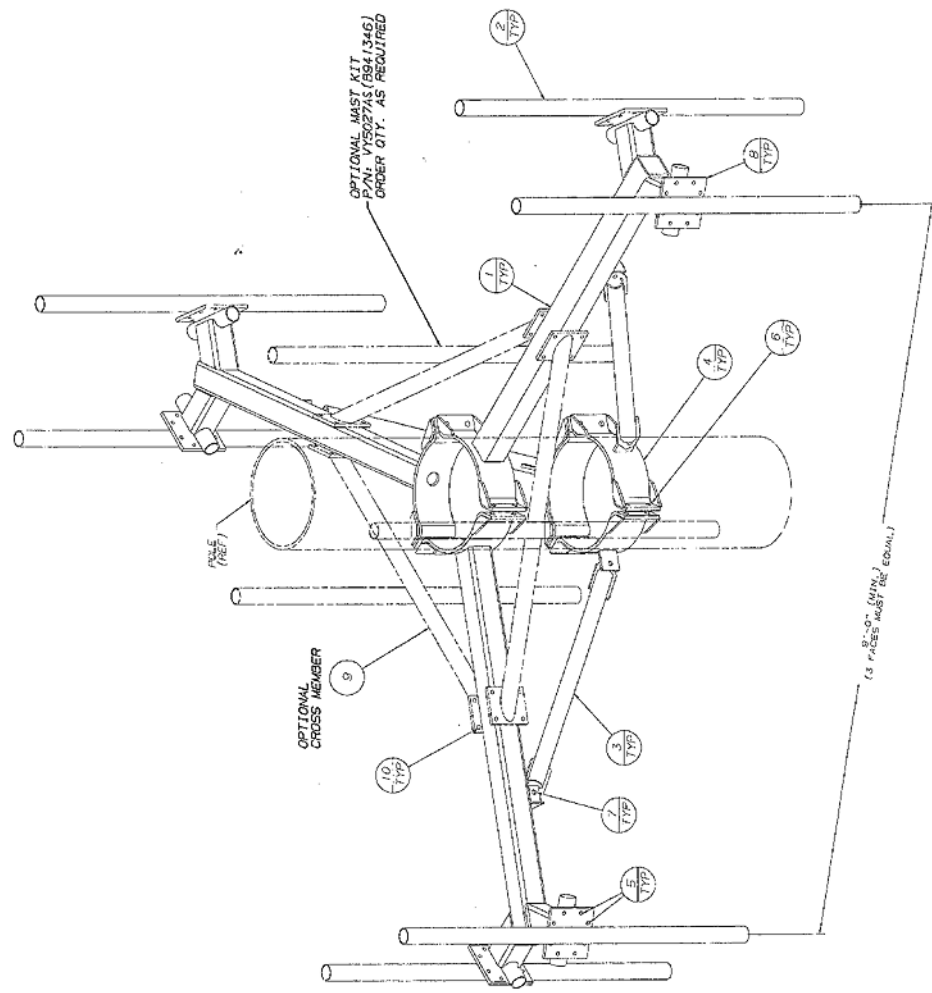
**ASSY P/N: VY5318A  
(FOR 24" POLE)**

**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	ENG. NO.
1	1	VY5309	ANTENNA MOUNTING ARM	070040
2	1	W0272	MOUNTING PIPE STD X 3" LONG	051181
3	1	VY5143	WAVE BRACKET	081181
4	1	VY5203	CLAMP W/ LUG	081181
5	1	W0214	U-BOLT ASSY	051028
6	12	Z1003104	5/8" X 3" BOLT ASSY	C77044
7	6	Z1003104	5/8" X 3" BOLT ASSY	C77044
8	1	VY5203	CLAMP W/ LUG	081181
9	1	VY5203	CLAMP W/ LUG	081181
10	12	Z1003054	1/2" X 8" BOLT ASSY	C77044

OPTIONAL ANTENNA MAST  
W/ CROSS MEMBER TO SUPPORT

W/O CROSS MEMBER



OPTIONAL MAST KIT  
P/N: VY52715 (3941346)  
ORDER QTY. AS REQUIRED

8" (MIN.)  
(13 PICES MUST BE EQUAL)

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DATE: 01-11-00  
DRAWN: J. J. J.  
CHECKED: J. J. J.  
APP. DATE: 01-11-00  
APP. BY: J. J. J.

**ROHN**  
16" DIA. x 24" POLE  
LOW PROFILE ANTENNA MOUNT  
W/ (STANDARD) IS

08050543

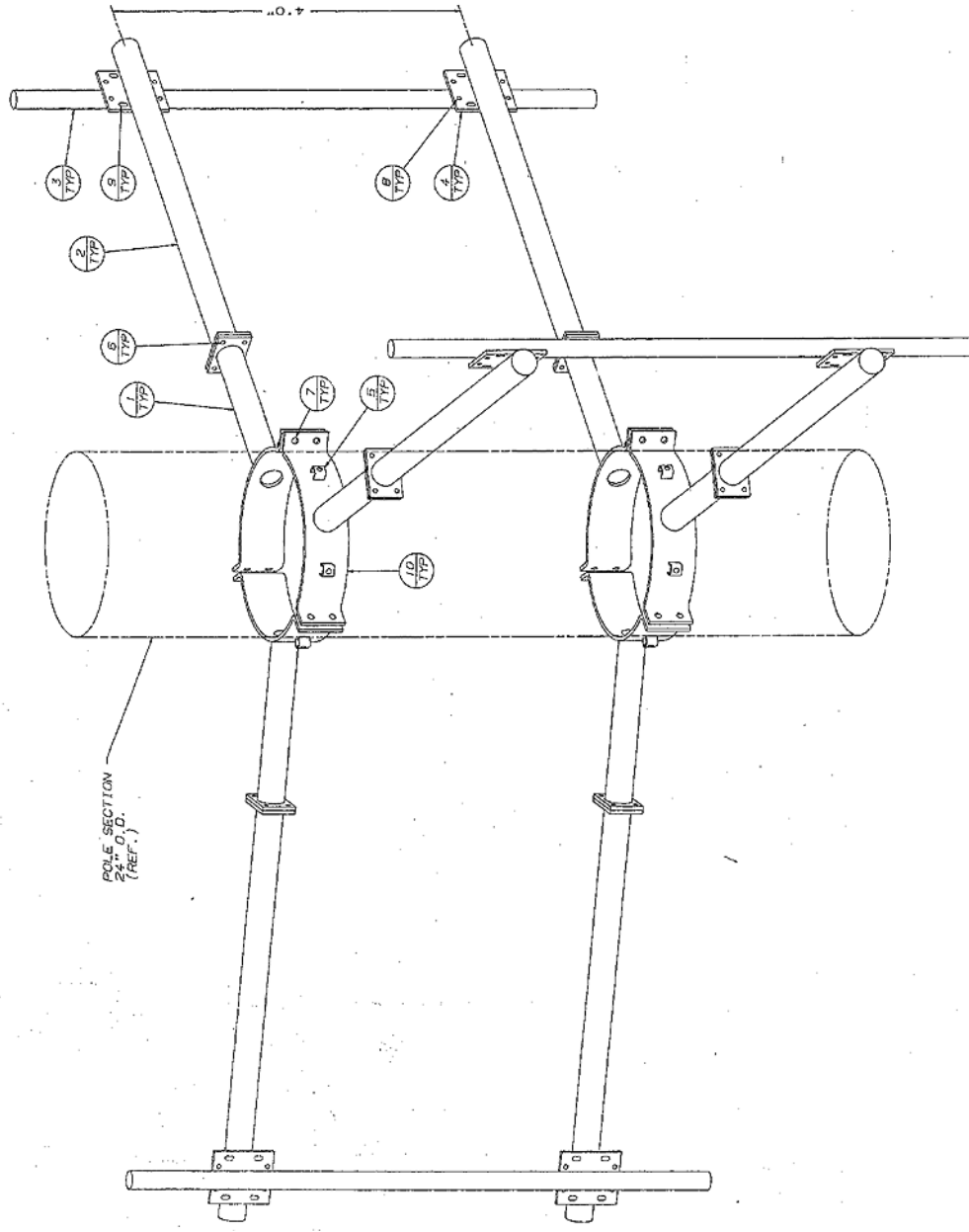


BILL OF MATERIAL			
ITEM	QTY	PART NO.	DESCRIPTION
1	2	YV4725A	SIDE ARM CLAMP
2	4	YV472A	SIDE ARM SUPPORT PIPE (3 SIDE)
3	1	WJ118A	MOUNTING PIPE (2SH X 6-9")
4	2	WJ181A	MOUNTING PLATE
5	12	W6983P	STEP BOLTS
6	8	2100510A	1/2" X 3" BOLT ASST.
7	12	W6983A	WASHER
8	4	W6984	WASHER
9	4	W6984	WASHER
10	4	W6984	WASHER
11	4	W6984	WASHER
12	4	W6984	WASHER
13	4	W6984	WASHER
14	4	W6984	WASHER
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98	4	W6984	WASHER
99	4	W6984	WASHER
100	4	W6984	WASHER

YV4725A (3 SIDE ARMS)  
 YV4725A2 (2 SIDE ARMS)  
 YV4725A1 (1 SIDE ARM)

GENERAL NOTES

1. WARNINGS ARE PROVIDED FOR ALL SLOTTED HOLES.
2. THIS SIDE ARM IS DESIGNED FOR A MAXIMUM THRUST OF 500 LBS.



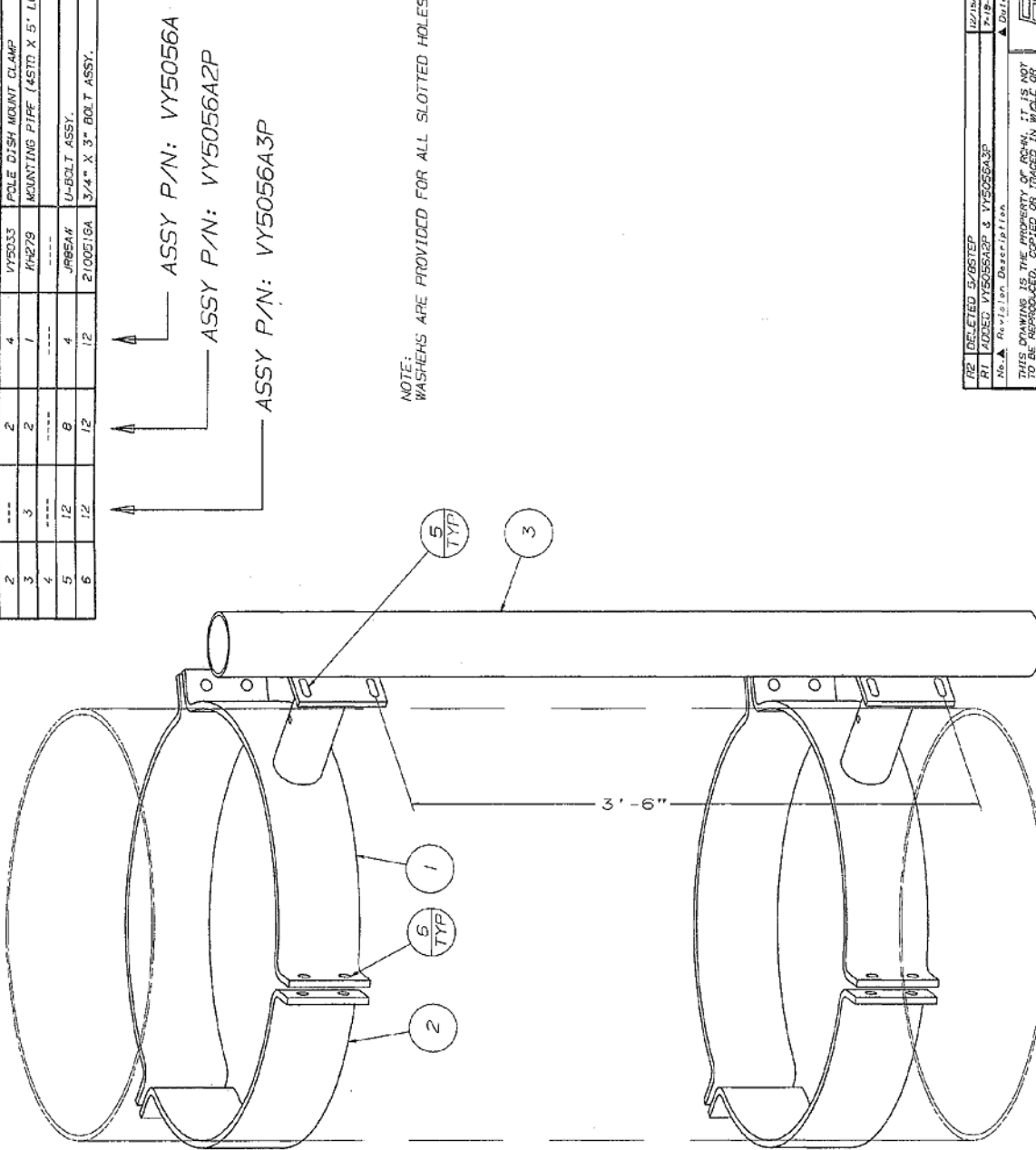
REV	DATE	BY	CHKD	DESCRIPTION
1	01/01/01	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
2	01/01/02	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
3	01/01/03	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
4	01/01/04	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
5	01/01/05	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
6	01/01/06	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
7	01/01/07	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
8	01/01/08	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
9	01/01/09	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY
10	01/01/10	J		POLE 6' ADJUSTABLE SIDE ARM ASSEMBLY







BILL OF MATERIAL						
ITEM	QTY (3-PIPS)	QTY (2-PIPS)	QTY (1-PIPS)	PART NO.	DESCRIPTION	DWG. NO.
1	6	4	2	VY5055	POLE DISH MOUNT CLAMP W/ STUB	C941000
2	---	2	4	VY5033	POLE DISH MOUNT CLAMP	C940703
3	3	2	1	R4279	MOUNTING PIPE (45TD X 5' LG.)	B770160
4	---	---	---	---	---	---
5	12	8	4	J46544	U-BOLT ASSY.	B65102B
6	12	12	12	2100216A	3/4" X 3" BOLT ASSY.	C770404



REV	DELETED 5/08/STEP	BY	WVN	DATE	5/8/94
REV	ADDED VY5056A2P & VY5056A3P	BY	JCM	DATE	7/18/94
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.					
Checked:	WCU	Date:	6/22/94	Appr.:	TS
Appr.:	TS	Date:	6/23/94	Appr.:	TS
<b>ROHN</b> DISH MOUNT ASSY. FOR 30" DIA. POLE					
DRAWING NO.: C940997					P2





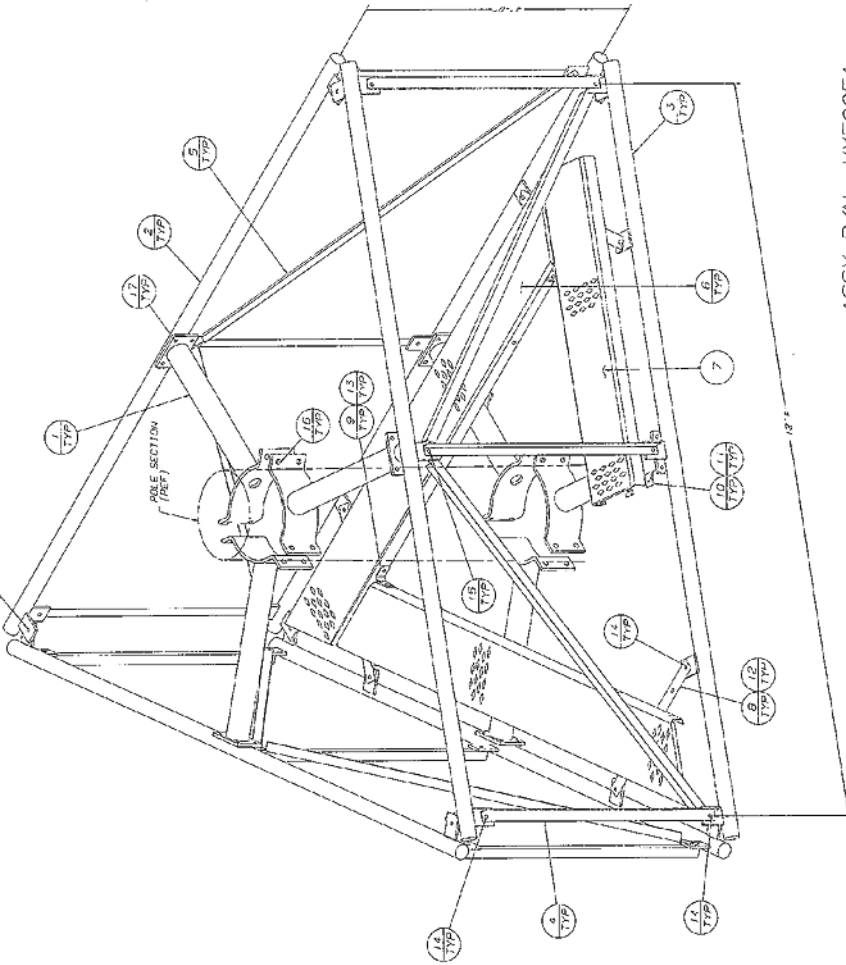
ITEM	QTY	PART NO.	DESCRIPTION	ENG. NO.
1	1	175507	WASHER	021864.P
2	1	175508	WASHER	021864.P
3	1	175509	WASHER	021864.P
4	1	175510	WASHER	021864.P
5	1	175511	WASHER	021864.P
6	1	175512	WASHER	021864.P
7	1	175513	WASHER	021864.P
8	1	175514	WASHER	021864.P
9	1	175515	WASHER	021864.P
10	1	175516	WASHER	021864.P
11	1	175517	WASHER	021864.P
12	1	175518	WASHER	021864.P
13	1	175519	WASHER	021864.P
14	1	175520	WASHER	021864.P
15	1	175521	WASHER	021864.P
16	1	175522	WASHER	021864.P
17	1	175523	WASHER	021864.P

**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	ENG. NO.
1	1	175507	WASHER	021864.P
2	1	175508	WASHER	021864.P
3	1	175509	WASHER	021864.P
4	1	175510	WASHER	021864.P
5	1	175511	WASHER	021864.P
6	1	175512	WASHER	021864.P
7	1	175513	WASHER	021864.P
8	1	175514	WASHER	021864.P
9	1	175515	WASHER	021864.P
10	1	175516	WASHER	021864.P
11	1	175517	WASHER	021864.P
12	1	175518	WASHER	021864.P
13	1	175519	WASHER	021864.P
14	1	175520	WASHER	021864.P
15	1	175521	WASHER	021864.P
16	1	175522	WASHER	021864.P
17	1	175523	WASHER	021864.P

**GENERAL NOTES**

1. WASHERS ARE PROVIDED WITH ALL SLOTTED HOLES.
2. TO ACCOMMODATE THE ROLL-OFF SAFETY DEVICES BY SLIDING WALKWAYS FROM ONE END TO THE OTHER.
3. CHECK AND, IF REQUIRED, RETIGHTEN ALL BOLTS AFTER INSTALLATION AND AT EACH SCHEDULED INSPECTION THEREAFTER.



ASSY P/N: VY5005A

THIS DRAWING IS THE PROPERTY OF ROHN, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED.	
DATE: 08/27/2013 TIME: 10:30 AM DRAWN BY: J. J. JONES CHECKED BY: J. J. JONES SCALE: AS SHOWN	<b>ROHN</b> POLE MOUNTING FRAME W/O EXTENSION WITH WALKWAY FOR 24" POLE
PROJECT NO.: 13-001 SHEET NO.: 1 OF 1 REV. NO.: 0	DRAWING NO.: 096051R 10



# MOUNTS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

Blank



# UNIVERSAL TOWER ANTENNA MOUNTS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY



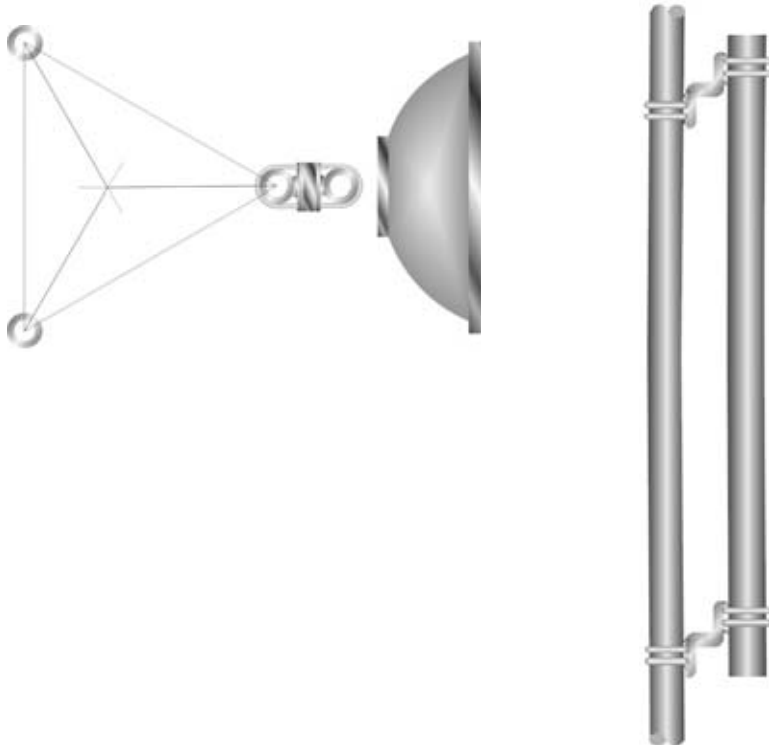




## Leg Dish Mounts

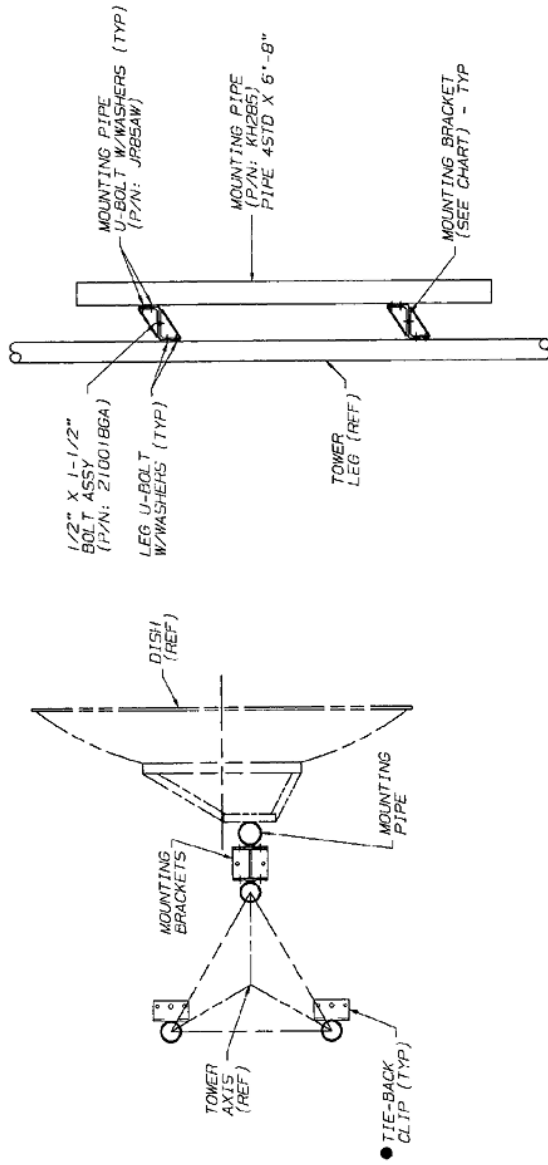
Part Number	Description
S24HUM	Straight leg Dish Mount, 2.375 inch - 4.5 inch OD legs
S24HUMTB	Straight leg Dish Mount, 2.375 - 4.5 OD legs, with Tie Back Clips
S56HUM	Straight leg Dish Mount, 5.5 inch - 6.625 inch OD legs
S56HUMTB	Straight leg Dish Mount, 5.5 inch - 6.625 inch OD legs, with Tie Back Clips
T24HUM	Tapered Leg Dish Mount, 2.375 inch - 4.5 inch OD legs
T24HUMTB	Tapered leg Dish Mount, 2.375 inch - 4.5 inch OD legs, with Tie Back Clips
T56HUM	Tapered Leg Dish Mount, 5.5 inch - 6.625 inch OD legs
T56HUMTB	Tapered Leg Dish Mount, 5.5 inch - 6.625 inch OD legs, with Tie Back Clips

Standard Leg Dish Mounts will fit on your designation of straight or tapered round member tower legs with diameters of 2.375" O.D. through 6.625" O.D. Larger sizes are available upon request. All items are hot dip galvanized. Includes mount and all hardware needed to attach mount to tower. Tie back clips and hardware are included where shown in description.





# Universal Tower Antenna Mounts



ASSY P/N	TOWER LEG SIZE (O.D.)	MOUNTING BRACKET P/N	LEG U-BOLT	NUTS, PAL NUTS & WASHER	MOUNTING PIPE	BOLT ASSY (QTY - 4)	MOUNTING PIPE U-BOLTS (QTY - 4)	TIE-BACK CLIP (IF REQUIRED)	NUTS, PAL NUTS & WASHER
S24HM *	2.375 - 4.50	4 - VY2379	4 - JRB3 4 - JRB4 4 - JRB8 4 - JRB5	B - 250011G B - 230013 B - 230011	1 - KH285	2100186A	JRB5AW	2 - VY1653 4 - JRB3 4 - JRB4 4 - JRB8 4 - JRB5	B - 250011G B - 230013 B - 230011
S56HM	5.50 - 6.625	2 - VY2379 2 - VY2360	4 - JRB6 4 - JRB7	B - 250011G B - 230013 B - 230011	1 - KH285	2100186A	JRB5AW	2 - VY1654 4 - JRB6 4 - JRB7	B - 250011G B - 230013 B - 230011

- NOTE: ADD "TB" TO END OF PART NUMBER TO INCLUDE (2) TIE-BACK CLIPS.
- \* NOT TO BE USED ON LESS THAN 2.875" O.D. WITH 10' HP DISHES OR LARGER.

GENERAL NOTES:

1. MOUNTING BRACKETS MUST BE MOUNTED AS CLOSE TO A BRACE CLIP AS POSSIBLE.
2. FOR FABRICATION DRAWINGS SEE:  
MOUNTING BRACKET - 6910183  
U-BOLT - 6651028  
MOUNTING PIPE - 6770160  
TIE-BACK CLIP - 6600104  
3. FLAT WASHERS ARE PROVIDED WITH ALL SLOTTED HOLES.

RI	REVISED DRAWING	12-13-98	ACS	JRM	JT
No.	Revision Description	▲ Date	▲ Rev. Dr.	▲ Ck. Dr.	▲ App. Dr.
THIS DRAWING IS THE PROPERTY OF ROHN, IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT OUR WRITTEN CONSENT.					
Scale:	NONE	By:	Date:		
Drawn:	JOM	2-18-99			
Checked:	KTL	3-2-99			
App. Eng.:	YS	3-9-99			
Parent File:					
<b>ROHN</b>			UNIVERSAL LEG DISH MOUNT FOR STRAIGHT TOWER SECTIONS		
			ENG. NO.:	C990750	
			SHEET 1 OF 1 (REV.)		



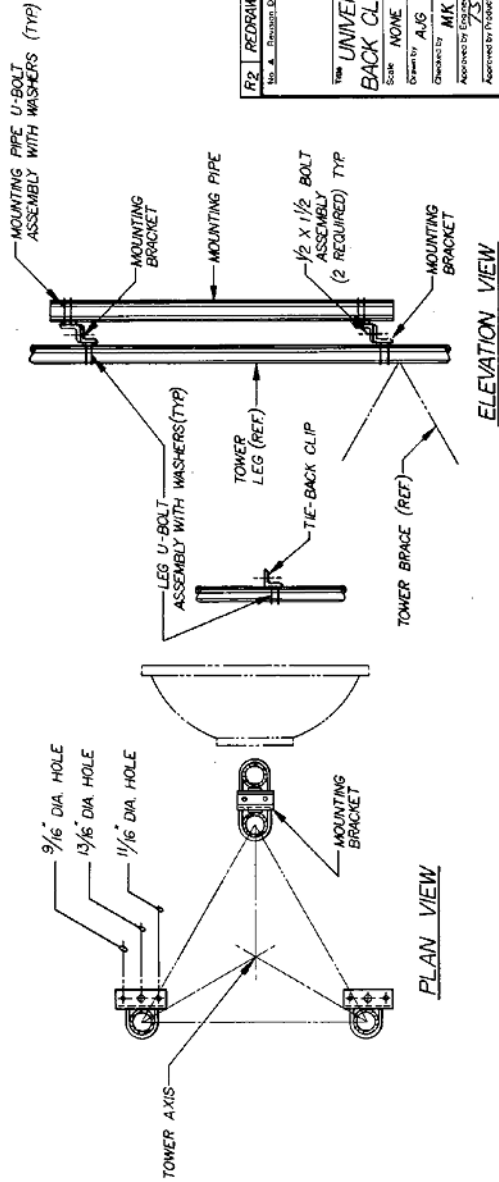
- GENERAL NOTES**
1. MOUNTING BRACKETS MUST BE MOUNTED AS CLOSE TO A BRACE CLIP AS POSSIBLE.
  2. FOR MOUNTING BRACKET FABRICATION, SEE DRAWING NUMBER B800005.
  3. FOR U-BOLT FABRICATION, SEE DRAWING NUMBER B85028.
  4. FOR MOUNTING PIPE FABRICATION, SEE DRAWING NUMBER B7060.
  5. FOR TIE-BACK CLIP ANGLE FABRICATION, SEE DRAWING NUMBER B800004.

DISH MOUNTS WITH MOUNTING PIPE 4" STD X 5'-0" LG. & TIE-BACK CLIPS						
ASSEMBLY PT. NO.	TOWER LEG PIPE SIZE	MOUNTING BRACKET PT. NO. (4-REQ'D)	LEG U-BOLT ASSY WITH WASHERS (8-REQUIRED)	MOUNTING PIPE PT. NO. (1-REQ'D)	TIE-BACK CLIP PT. NO. (2-REQ'D)	CONNECTION BOLT ASSEMBLY 1/2" x 1/2" (4-REQUIRED)
STB20UM	2"	VY1627	JRB3AW	KH279	VY1653	JRB5AW 2100186A
STB25UM	2 1/2"	VY1627	JRB4AW	KH279	VY1653	JRB5AW 2100186A
STB30UM	3"	VY1627	JRB6AW	KH279	VY1653	JRB5AW 2100186A
STB35UM	3 1/2"	VY1627	JRB6AW	KH279	VY1653	JRB5AW 2100186A
STB40UM	4"	VY1627	JRB6AW	KH279	VY1653	JRB5AW 2100186A
STB50UM	5"	2-VY1627	JRB6AW	KH279	VY1654	JRB5AW 2100186A
STB60UM	6"	2-VY1627	JRB7AW	KH279	VY1654	JRB5AW 2100186A

DISH MOUNTS WITH MOUNTING PIPE 4" STD X 6'-8" LG. & TIE-BACK CLIPS						
ASSEMBLY PT. NO.	TOWER LEG PIPE SIZE	MOUNTING BRACKET PT. NO. (4-REQ'D)	LEG U-BOLT ASSY WITH WASHERS (8-REQUIRED)	MOUNTING PIPE PT. NO. (1-REQ'D)	TIE-BACK CLIP PT. NO. (2-REQ'D)	CONNECTION BOLT ASSEMBLY 1/2" x 1/2" (4-REQUIRED)
STB20HUM	2"	VY1627	JRB3AW	KH285	VY1653	JRB5AW 2100186A
STB25HUM	2 1/2"	VY1627	JRB4AW	KH285	VY1653	JRB5AW 2100186A
STB30HUM	3"	VY1627	JRB6AW	KH285	VY1653	JRB5AW 2100186A
STB35HUM	3 1/2"	VY1627	JRB6AW	KH285	VY1653	JRB5AW 2100186A
STB40HUM	4"	VY1627	JRB6AW	KH285	VY1653	JRB5AW 2100186A
STB50HUM	5"	2-VY1627	JRB6AW	KH285	VY1654	JRB5AW 2100186A
STB60HUM	6"	2-VY1627	JRB7AW	KH285	VY1654	JRB5AW 2100186A

NOTE: FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.



**UNARCO-ROTH**  
Division of Unarco Industries, Inc.

**UNIVERSAL LEG DISH MOUNTS & TIE-BACK CLIPS FOR STRAIGHT TOWER SECTIONS**

Scale: NONE  
 Drawn by: AUG 12-5-81  
 Checked by: MK 12-14-81  
 Approved by: Engineering 12-16-81  
 Approved by: Production 12-16-81  
 Approved by: Purchasing 12-16-81

Material: 304 SS  
 Finish: POLISHED  
 Weight: 1.00  
 Drawing Number: C800125 R2  
 Date: 12-16-81  
 By: G.R.



# Universal Tower Antenna Mounts

- GENERAL NOTES**
1. MOUNTING BRACKETS MUST BE MOUNTED AS CLOSE TO A BRACE CLIP AS POSSIBLE.
  2. FOR MOUNTING BRACKET FABRICATION, SEE DRAWING NUMBERS B80005 AND B80002.
  3. FOR U-BOLT FABRICATION, SEE DRAWING NUMBER B70608.
  4. FOR MOUNTING PIPE FABRICATION, SEE DRAWING NUMBER B7060.
  5. FOR TIE-BACK CLIP ANGLE FABRICATION, SEE DRAWING NUMBER B80004.

DISH MOUNTS WITH MOUNTING PIPE 4" STD X 5'-0" LG. & TIE-BACK CLIPS			
ASSEMBLY PT. NO.	TOWER LEG PIPE SIZE	LOWER BRACKET PT. NO. (1-REQ'D OF EACH)	UPPER BRACKET PT. NO. (1-REQ'D OF EACH)
TTB20UM	2"	VY1651	VY1627
TTB25UM	2 1/2"	VY1651	VY1627
TTB30UM	3"	VY1651	VY1627
TTB35UM	3 1/2"	VY1651	VY1627
TTB40UM	4"	VY1651	VY1627
TTB50UM	5"	VY1652	VY1628
TTB60UM	6"	VY1652	VY1628

DISH MOUNTS WITH MOUNTING PIPE 4" STD X 6'-8" LG. & TIE-BACK CLIPS			
ASSEMBLY PT. NO.	TOWER LEG PIPE SIZE	LOWER BRACKET PT. NO. (1-REQ'D OF EACH)	UPPER BRACKET PT. NO. (1-REQ'D OF EACH)
TTB20HUM	2"	VY1651	VY1627
TTB25HUM	2 1/2"	VY1651	VY1627
TTB30HUM	3"	VY1651	VY1627
TTB35HUM	3 1/2"	VY1651	VY1627
TTB40HUM	4"	VY1651	VY1627
TTB50HUM	5"	VY1652	VY1628
TTB60HUM	6"	VY1652	VY1628

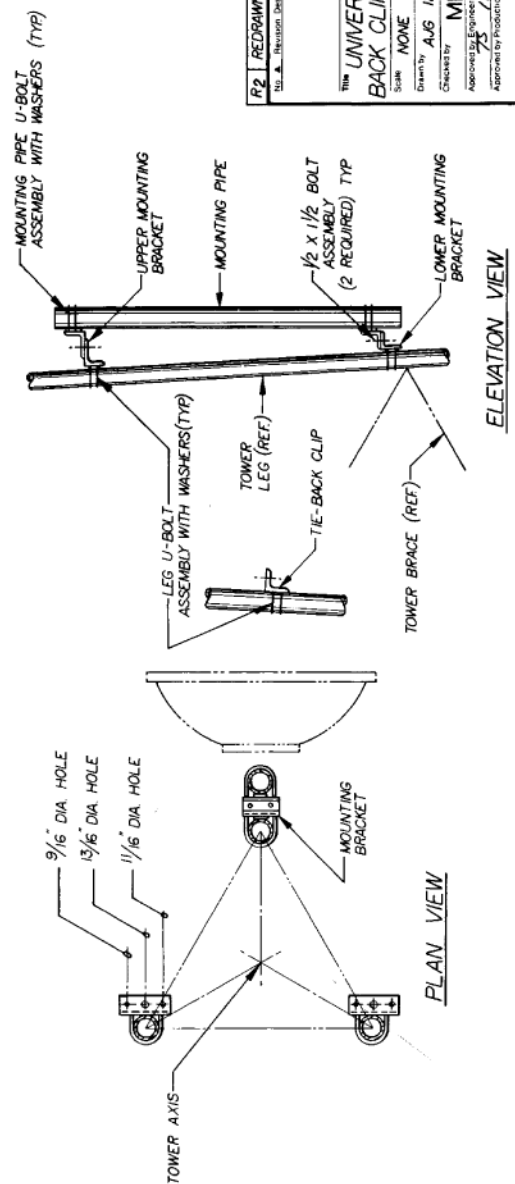
  

DISH MOUNTS WITH MOUNTING PIPE 4" STD X 5'-0" LG. & TIE-BACK CLIPS			
ASSEMBLY PT. NO.	TOWER LEG PIPE SIZE	LOWER BRACKET PT. NO. (1-REQ'D OF EACH)	UPPER BRACKET PT. NO. (1-REQ'D OF EACH)
TTB20UM	2"	VY1653	VY1627
TTB25UM	2 1/2"	VY1653	VY1627
TTB30UM	3"	VY1653	VY1627
TTB35UM	3 1/2"	VY1653	VY1627
TTB40UM	4"	VY1653	VY1627
TTB50UM	5"	VY1654	VY1628
TTB60UM	6"	VY1654	VY1628

DISH MOUNTS WITH MOUNTING PIPE 4" STD X 6'-8" LG. & TIE-BACK CLIPS			
ASSEMBLY PT. NO.	TOWER LEG PIPE SIZE	LOWER BRACKET PT. NO. (1-REQ'D OF EACH)	UPPER BRACKET PT. NO. (1-REQ'D OF EACH)
TTB20HUM	2"	VY1653	VY1627
TTB25HUM	2 1/2"	VY1653	VY1627
TTB30HUM	3"	VY1653	VY1627
TTB35HUM	3 1/2"	VY1653	VY1627
TTB40HUM	4"	VY1653	VY1627
TTB50HUM	5"	VY1654	VY1628
TTB60HUM	6"	VY1654	VY1628

NOTE: FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.

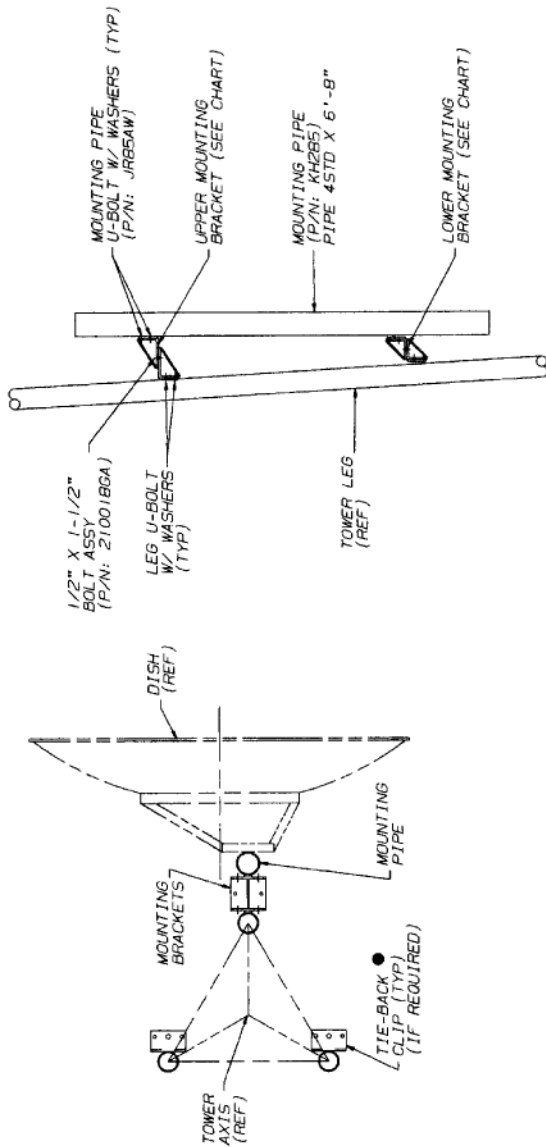


**R2 REDRAWN** 12-5-81 AUG  
 No. A. Revision Description: A. Drawn By: **U**

**Unarco-Rohn**  
 Division of Unarco Industries, Inc.

**THE UNIVERSAL LEG DISH MOUNTS & TIE-BACK CLIPS FOR TAPERED TOWER SECTIONS**

Scale: NONE  
 Title: NONE  
 Date: 12-5-81  
 Drawn By: MK 12/14/81  
 Checked By: [Signature]  
 Approved By: [Signature]  
 Approved by Production: [Signature]  
 Date: 12-16-81  
 Part Number: 0800124 R2  
 Drawing Number: 0800124 R2  
 Approved by Sales: gpb 12-16-81



ASSY P/N	TOWER LEG SIZE (O.D.)	LOWER MOUNTING BRACKET P/N	UPPER MOUNTING BRACKET P/N	LEG U-BOLT	NUTS, PAL NITS & WASHERS	MOUNTING PIPE	BOLT ASSY (QTY-4)	MOUNTING PIPE U-BOLTS (QTY-4)	TIE-BACK CLIP (IF REQUIRED)	NUTS, PAL NITS & WASHERS
T244HM *	2.375 - 4.50	2 - VY2404	2 - VY2379	4 - JR83 4 - JR84 4 - JR86 4 - JR85	8 - 250011G 8 - 230013 8 - 230011	1 - KH285	210018GA	JR85AW	2 - VY1653 4 - JR83 4 - JR86 4 - JR89 4 - JR85	8 - 250011G 8 - 230013 8 - 230011
T58HM	5.50 - 6.625	1 - VY2404 1 - VY2405	1 - VY2379 1 - VY2380	4 - JR86 4 - JR87	8 - 250011G 8 - 230013 8 - 230011	1 - KH285	210018GA	JR85AW	2 - VY1654 4 - JR86 4 - JR87	8 - 250011G 8 - 230013 8 - 230011

- NOTE: ADD "TB" TO END OF PART NUMBER TO INCLUDE (2) TIE-BACK CLIPS.
- \* NOT TO BE USED ON LESS THAN 2.875" O.D. WITH 10' HP DISHES OR LARGER.

GENERAL NOTES:

1. MOUNTING BRACKETS MUST BE MOUNTED AS CLOSE TO A BRACE CLIP AS POSSIBLE.
2. FOR FABRICATION DRAWING SEE:  
MOUNTING BRACKET - B910211 & B910183  
U-BOLT - B651028  
MOUNTING PIPE - B770160  
TIE-BACK CLIP - B800104
3. FLAT WASHERS ARE PROVIDED WITH ALL SLOTTED HOLES.

No. Revision Description		Date	Rev. By	Chd. By	App'd By
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.					
Scale:	NAME	By	Date	ROHN	
Drawn:	JDM	2-18-99	UNIVERSAL LEG DISH MOUNT FOR TAPERED TOWER SECTIONS		
Checked:	AP	3/2/99	ENG. FILE: C990752		
App. Eng.:	TJ	3/2/99	SHEET 1 OF 1		
Parent File:					





# Universal Tower Antenna Mounts

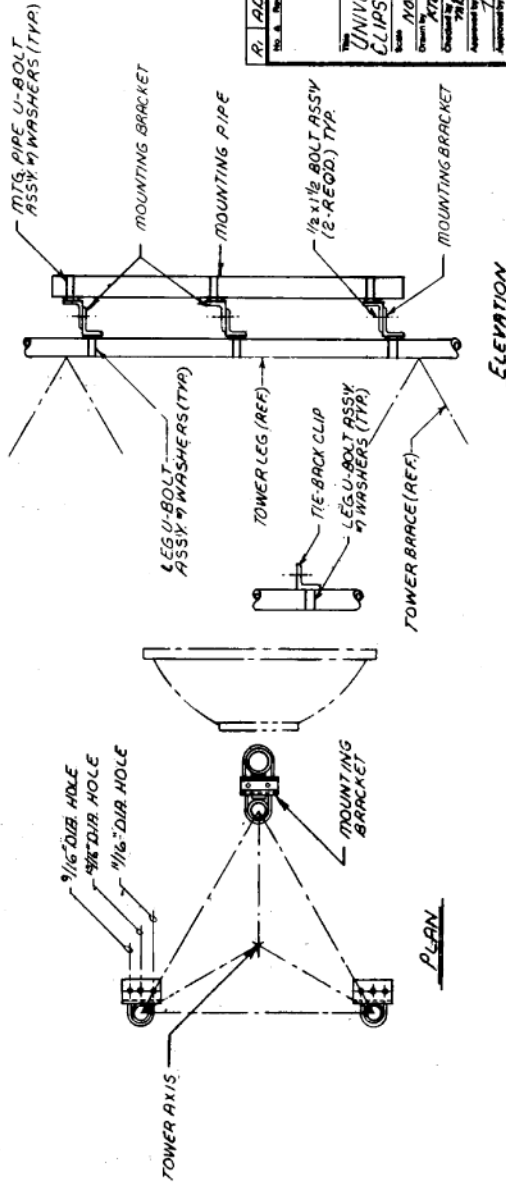
- GENERAL NOTES**
1. MOUNTING BRACKETS MUST BE MOUNTED AS CLOSE TO BRACE CLIP AS POSSIBLE.
  2. FOR MOUNTING BRACKET FABRICATION SEE DWG. NO. 8800005.
  3. FOR U-BOLT FABRICATION SEE DWG. NO. 8651028 RD.
  4. FOR MOUNTING PIPE FABRICATION SEE DWG. NO. 8770160 R3.
  5. FOR TIE-BACK CLIP ANGLE FABRICATION SEE DWG. NO. 8800104 R1.

DISH MOUNTS w/ MOUNTING PIPE 4" STD. x 10'-0" LG. w/ TIE-BACK CLIPS					
ASSY PIN	POWER LEG PIPE SIZE	MOUNTING BRKT. PIN (6-REQ'D) (EXCEPT AS NOTED)	TIE-BACK CLIP PIN (2-REQ'D)	MOUNTING PIPE PIN (1-REQ'D)	CONNECTION BOLT ASSY 1/2 x 1/2 (6-REQ'D)
57820LUM	2 STD. or 2 X-STR	VY1627	VY1653	KH291	JR85AW
57825LUM	2 1/2 STD. or 2 X-STR	VY1627	VY1653	KH291	JR85AW
57830LUM	3 STD. or 3 X-STR	VY1627	VY1653	KH291	JR85AW
57835LUM	3 1/2 STD. or 3 1/2 X-STR	VY1627	VY1653	KH291	JR85AW
57840LUM	4 STD. or 4 X-STR	VY1627	VY1653	KH291	JR85AW
57850LUM	5 STD. or 5 X-STR	3-VY1627 3-VY1628	VY1654	KH291	JR85AW
57860LUM	6 STD. or 6 X-STR	3-VY1627 3-VY1628	VY1654	KH291	JR85AW

DISH MOUNTS w/ MOUNTING PIPE 4" STD. x 10'-0" LG.					
ASSY PIN	POWER LEG PIPE SIZE	MOUNTING BRKT. PIN (6-REQ'D) (EXCEPT AS NOTED)	CONNECTION BOLT ASSY 1/2 x 1/2 (6-REQ'D)	MOUNTING PIPE PIN (1-REQ'D)	LEG U-BOLT ASSY w/ WASHERS (6-REQ'D)
580LUM	2 STD. or 2 X-STR	VY1627	210018GA	KH291	JR85AW
585LUM	2 1/2 STD. or 2 1/2 X-STR	VY1627	210018GA	KH291	JR85AW
590LUM	3 STD. or 3 X-STR	VY1627	210018GA	KH291	JR85AW
595LUM	3 1/2 STD. or 3 1/2 X-STR	VY1627	210018GA	KH291	JR85AW
600LUM	4 STD. or 4 X-STR	VY1627	210018GA	KH291	JR85AW
605LUM	5 STD. or 5 X-STR	3-VY1627 3-VY1628	210018GA	KH291	JR85AW
610LUM	6 STD. or 6 X-STR	3-VY1627 3-VY1628	210018GA	KH291	JR85AW

NOTE: FLAT WASHERS PROVIDED FOR ALL SLOTTED HOLES.



UNARCO-ROHN  
 Division - 1 Unarco Industries, Inc.  
 9-1780 KIT  
 UNIVERSAL LEG DISH MOUNTS & TIE-BACK CLIPS FOR STRAIGHT TOWER SECTIONS  
 DATE: NONE  
 DRAWN BY: KTE 2-19-80  
 CHECKED BY: HBA 3-12-80  
 APPROVED BY: [Signature] 3-17-80  
 GE 312 P C800126 R1



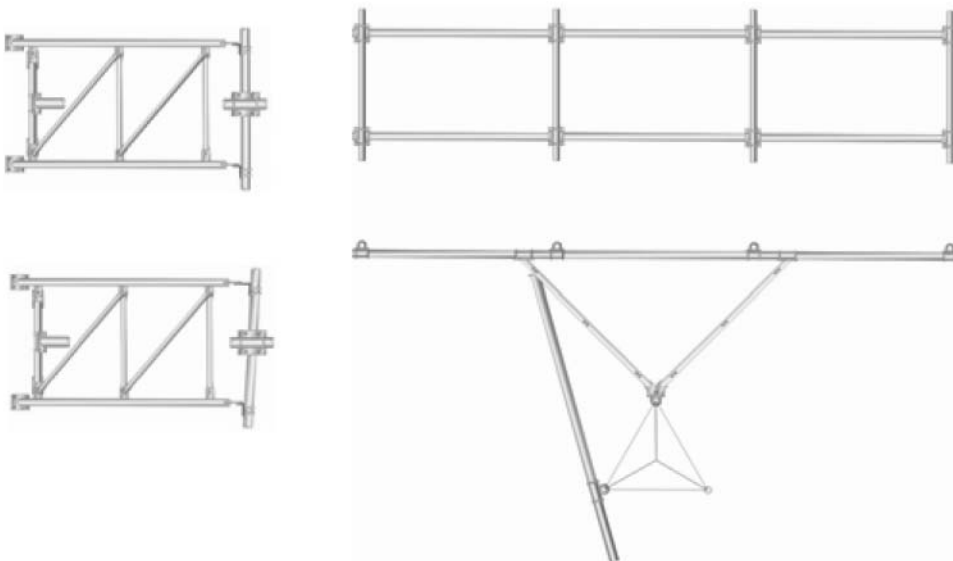
## Antenna Mounts

Part Number	Description
LMF1 5254A6	3 Sector Frame Mount, 15 feet, 2.875 inch - 4.5 inch OD legs, 6 mounting pipes
LMF15254A9	3 Sector Frame Mount, 15 feet, 2.875 inch - 4.5 inch OD legs, 12 mounting pipes
LMF12254A6	3 Sector Frame Mount, 12 feet, 2.875 inch - 4.5 inch OD legs, 6 mounting pipes
LMF12254A9	3 Sector Frame Mount, 12 feet, 2.875 inch - 4.5 inch OD legs 9 mounting pipes
LMF12254A12	3 Sector Frame Mount, 12 feet, 2.875 inch - 4.5 inch OD legs, 12 mounting pipes
LMF20254A6	3 Sector Frame Mount, 20 feet, 2.875 inch - 4.5 inch OD legs, 6 mounting pipes
LMF20254A12	3 Sector Frame Mount, 20 feet, 2.875 inch - 4.5 inch OD legs, 12 mounting pipes

### Sector Frame Mount

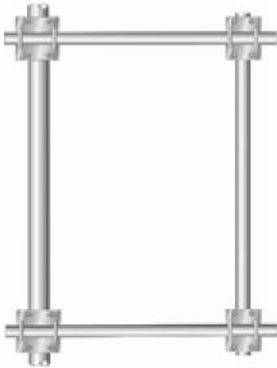
This mount will fit straight or tapered tower sections with round member legs 2.875 inch O.D. through 4.5 inch O.D. and face widths of up to 14 ft., making it ideal for co-location application. The frame face width size from 12 to 20 feet will fit most requirements. Mounting pipes are 8 feet long. All components are hot dip galvanized after fabrication. Each part number includes mounts for three sectors, mounting pipes, and all hardware required to attach mount to tower. Illustration below shows one sector only.

*Mounts for additional leg diameters available upon request.*





**Side Arms - 3' and 6'**



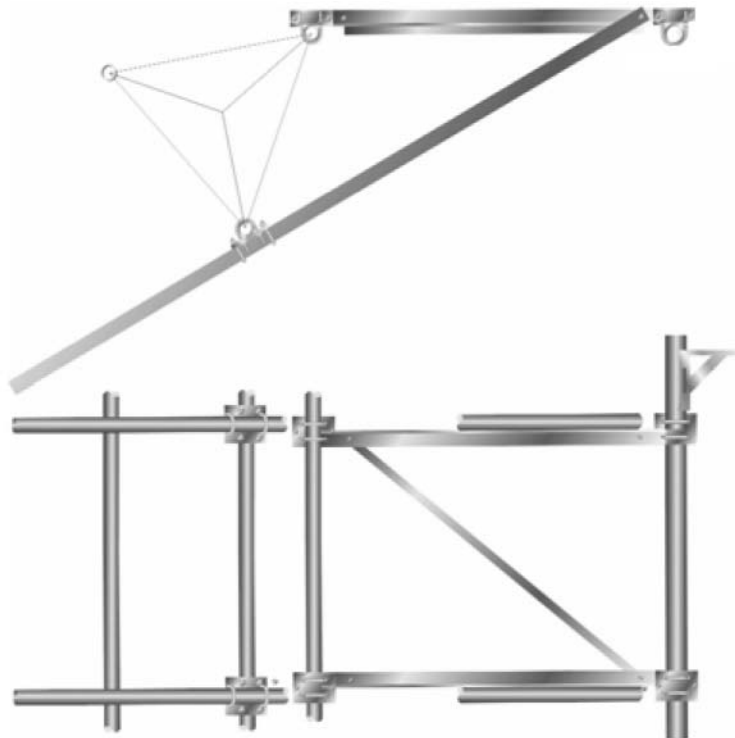
<b>Part Number</b>	<b>Description</b>
SA324A	Three Foot Side Arm, 2.375 inch - 4.5 inch OD legs
SA356A	Three Foot Side Arm, 5.5 inch - 6.63 inch OD legs
SA624A	Six Foot Side Arm, 2.375 inch - 4.5 inch OD legs
SA656A	Six Foot Side Arm, 5.5 inch - 6.63 inch OD legs

ROHN offers both Three and Six Foot side arm assemblies for straight or tapered tower sections. Kits are the same for either straight or tapered sections and may be ordered for legs 2.375" OD through 5.5" OD or 5.5" through 6.63" OD. Side arms to fit larger leg diameters are available upon request. These side arms are also available with either one or two tie back assemblies at additional cost. All items are hot dip galvanized.

**BMR Side Arms**

ROHN offers both Three and Six Foot side arm assemblies for straight or tapered tower sections. Kits are the same for either straight or tapered sections and may be ordered for legs 2.375" OD through 5.5" OD or 5.5" through 6.63" OD. Side arms to fit larger leg diameters are available upon request. These side arms are also available with either one or two tie back assemblies at additional cost. All items are hot dip galvanized.

For further information and pricing on BMR Side Arms, please call.





ANTENNA MOUNT KIT. REGR. AT EACH END OF HORIZONTAL SUPPORT PILLS FOR ANTENNA SUPPORT.

MTC PIPE 2EM X B' LONG

MOUNT PIPE CROSS PLATE

MOUNT U-BOLT RAIL U-BOLT

HORIZONTAL SUPPORT PIPES

LEG BRACKET (TYP. CHART)

LEG U-BOLT (TYP. CHART)

TIE-BACK PLATE

TONER KITS

LEG U-BOLT ASSY

VIEW AA

**\* KIT ORDERING INFORMATION**

EXAMPLE: (1) LMF 4 1/2" QTY. OF VY4325AB 56 FOR 2 1/2" x 4" LEG 10 FOR 5" x 6" LEG 12 FOR 10" LEG 12 FOR 12" LEG

SUPPORT PIPE LENGTH

**\* KIT INCLUDES**

3 - RY193AL KITS (SEE EXAMPLE) VY4325AB

6 - SUPPORT PIPES

NOTE: (2 MIN. PER FRAME) ANT. MOUNT KIT SUPPORTING FRAME AS REQ'D TO

**GENERAL NOTES**

1. FLAT WASHERS PROVIDED FOR ALL SLOTTED HOLES.
2. ALL KITS PROVIDED FOR ALL 100' AND U-BOLT ASSEMBLY.
3. AFTER INSTALLATION, ALL FIELD CUTTING MUST BE REPAIRED WITH GOLD OR ZINC RICH PAINT.

**BILL OF MATERIAL LEG MOUNT KIT ASSY**

ASSY P/N	LEG SIZE	LEG BRACKET TIE-BACK PLATE LEG U-BOLT	MOUNT KIT
SYMCH4	2.675 - 4.50 O.D.	VY4379	VY4380
SYMCH6	5.50 - 8.63 O.D.	VY4381	VY4382
SYMCH8	8.75 O.D.	VY4384	VY4385
SYMCH10A	10.75 O.D.	VY5179	VY5177
SYMCH12A	12.75 O.D.	VY5850	VY5849

**BILL OF MATERIAL FRAME SUPPORT ASSY**

ITEM	QUANT.	PART. NO.	DESCRIPTION	OMG. NO.
1	2	PH4932	800M NAIL	C311027
2	2	PH4932	800M NAIL	C311027
3	4	PH5079	VERTICAL BRACE	R050719
4	2	PH4979	DIAGONAL BRACE	R050719
5	4	PH5079	VERTICAL BRACE	R050719
6	4	PH5079	DIAGONAL BRACE	R050719
7	4	PH5079	VERTICAL BRACE	R050719
8	2	PH5079	DIAGONAL BRACE	R050719
9	2	PH5079	VERTICAL BRACE	R050719
10	2	PH5079	DIAGONAL BRACE	R050719
11	2	PH5079	VERTICAL BRACE	R050719
12	2	PH5079	DIAGONAL BRACE	R050719

**HORIZONTAL SUPPORT PIPES**

P/N	PIPE LENGTH	QTY. OF (2) PER MOUNT
PH585	12"	2
PH584	15"	2
PH582	14"	2
PH580	15"	2
PH583	16"	2
PH581	17"	2
PH580A	18"	2
PH4813	20"	2

**ANTENNA MOUNT KIT**

QTY.	P/N
2	PH4325AB
2	PH4325
2	PH4326
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**ROHN**

ANTENNA MOUNT ASSY ON 6" GATE ROOMS FOR STR. & TAP. SECTIONS

FORM. NO. 112 (REV. 11/11)

REV. 112 (REV. 11/11)

FORM. NO. 112 (REV. 11/11)



# Universal Tower Antenna Mounts

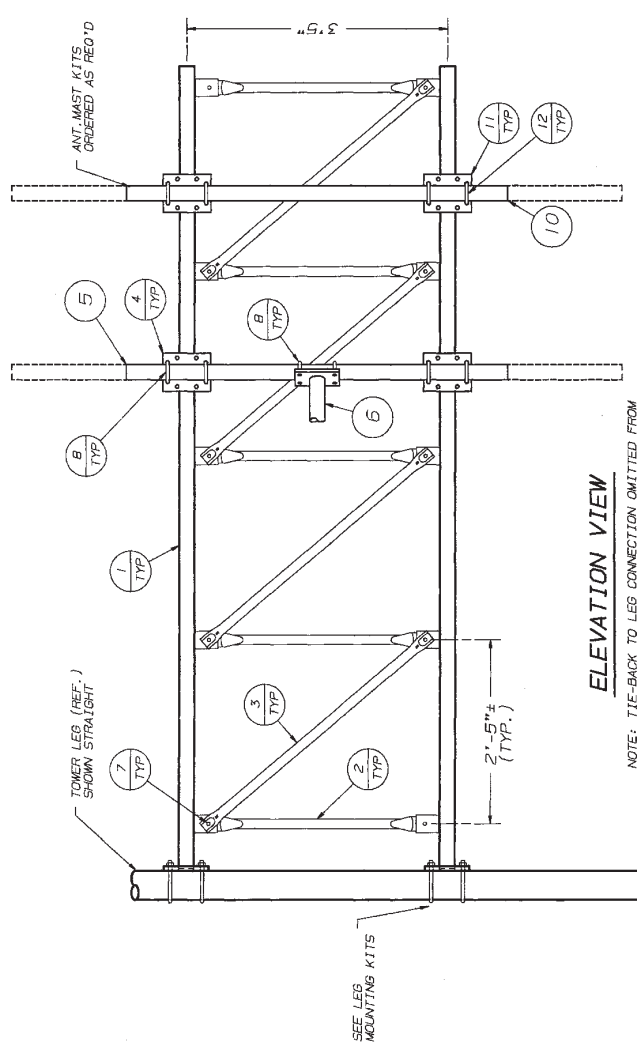
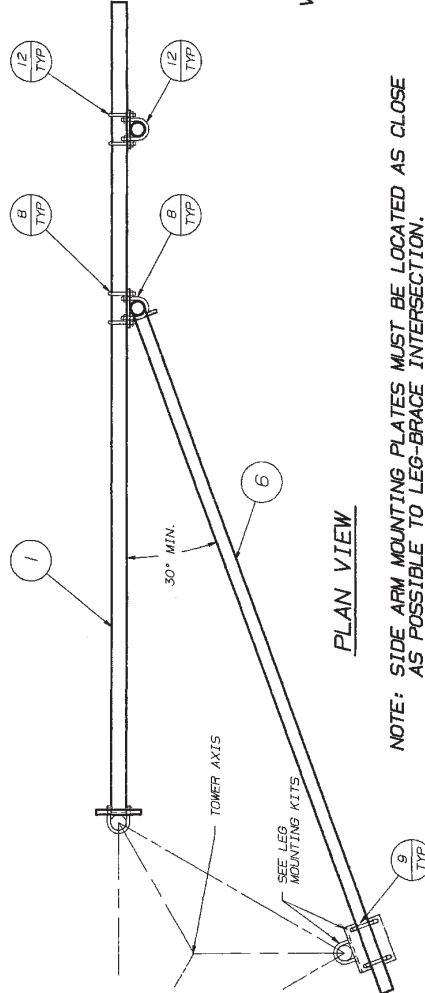
VY4301A BOOM BILL OF MATERIAL				DWG. NO.	
QUAN.	ITEM	QUAN.	PART NO.	DESCRIPTION	(SEE BELOW)
1	1	---	REF	BOOM RAIL (SEE STR. LEG MOUNTING KITS)	B660719
5	2	5	KB36R	BOOM VERTICAL BRACE	B660719
4	3	4	KB35R	BOOM DIAGONAL BRACE	C740106
0	4	2	KY14	CONNECTION PLATE	B720160
0	5	1	KH275	CONNECTION PIPE 2STD X 5'-0" LG.	C740106
0	6	1	KY12	TIE-BACK TUBE	C740106
10	7	10	21001B8A	1/2" X 1 1/2" BOLT ASSY.	B651028
0	8	10	JRB3A	U-BOLT ASSY.	B651028
0	9	2	JRB6AW	U-BOLT ASSY. W/ WASHERS	B651028

**REFERENCE DRAWINGS**  
(FOR SHOP USE ONLY)

TIE-BACK ANGLES - B660971

ANTENNA MAST KITS				DWG. NO.
ITEM	QUAN.	PART NO.	DESCRIPTION	
**	VY2522A			B720160
10	1	KH275	MOUNTING PIPE 2STD X 5'-0" LG.	C740106
11	2	KY14	CONNECTION PLATE	B651028
12	8	JRB3A	U-BOLT ASSY.	B651028

\*\* VY2522AB REPLACES P/N KH275 WITH P/N KH2229 - 2EH PIPE X 8'-0" LG.



STRAIGHT LEG MOUNTING KITS				DWG. NO.	
ASSEMBLY NUMBER	LEG SIZE (2-REQ'D)	BOOM RAIL DRAWING NUMBERS	U-BOLT ASSEMBLY	TIE-BACK ANGLE	
VY4302A	2"	KY1625	B691316 (6)	JRB3AW	KY1504
VY4303A	2 1/2"	KY1625	B691316 (6)	JRB4AW	KY1505
VY4304A	3"	KY1625	B691316 (6)	JRB6AW	KY1506
VY4305A	3 1/2"	KY1625	B691316 (6)	JRB9AW	KY1507
VY4306A	4"	KY1625	B691316 (6)	JRB5AW	KY1508
VY4307A	5"	KY1626	B691317 (6)	JRB6AW	KY1509
VY4308A	6"	KY1626	B691317 (6)	JRB7AW	KY1510

**ORDERING INFO**

ORDER (1) 10' GATE BOOM ASSY. VY4301A OR  
ORDER (1) 10' GATE BOOM ASSY. VY4301A OR  
ORDER (1) 10' GATE BOOM ASSY. VY4301A OR  
ORDER (1) 10' GATE BOOM ASSY. VY4301A OR

**GENERAL NOTES**

- ALL BOOM VERTICAL AND DIAGONAL BRACES ARE STD. 780" TOWER BRACES.
- ONE TIE-BACK SHOWN - TWO MAY BE REQUIRED FOR SPECIAL LOADING CONDITIONS.
- FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.

R2 ADDED 30" MIN. 3 REVISED B.O.M. 12/7/90 WEB JZL TS  
R1 ADDED NOTE 2/28/90 KTL WDU TS

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Scale: NONE By: Date Title:  
Drawn: RKB 7-25-89  
Checked: KTL 7/27/89  
App. - Eng.: TS 7/28/89

**ROHN**

10' GATE BOOM ASSEMBLY  
(STR.)  
(MTG. KITS 2" THRU 6" LEGS)

App. - Sales: SAK 7/28/89 ENG. FILE: DRAWING NO.: CB9133BRZ



ASSY P/N KY1955A BOOM BILL OF MATERIAL

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	KY1651	BOOM RAIL 2STD X 10"	B601400
2	5	KB36R	BOOM VERTICAL BRACE	B660719
3	4	KB35R	BOOM DIAGONAL BRACE	B660719
4	4	KY1841	CONNECTION ANGLE	B911713
5	10	21001B6A	1/2" X 1-1/2" BOLT ASSEMBLY	C770404
6	2	KH390	RINGFILL	B770314
7	4	2100316A	5/8" X 2" BOLT ASSEMBLY	C770404
8	4	JRB3A	U-BOLT ASSEMBLY	B651029
9	2	2100476A	3/4"X2" BOLT ASSEMBLY	C770404

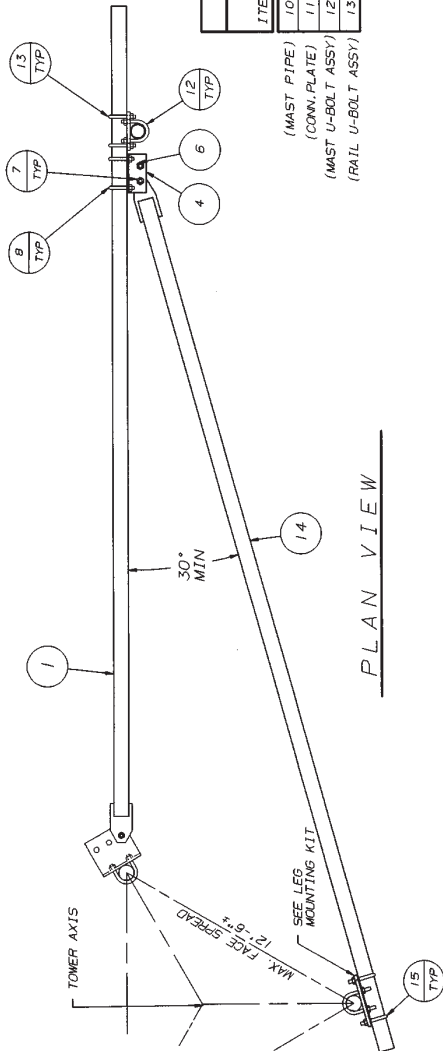
ANTENNA MAST KITS

ITEM	QTY.	25TD X 5" X 5"	2-55TD X 5" X 5"	3-55TD X 5" X 5"	3-55TD X 5" X 5"	3-55TD X 5" X 5"	4EH X 5"	4EH X 5"	4EH X 5"
10	1	KH275	KH2229	KH276	KH277	KH279	KH3713	KH279	KH1977
11	2	KY14	KY14	KH1614	KH1614	KH1614	KH1614	KH1614	KH1614
12	4	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A
13	4	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A	JRB3A

TIE-BACK KITS

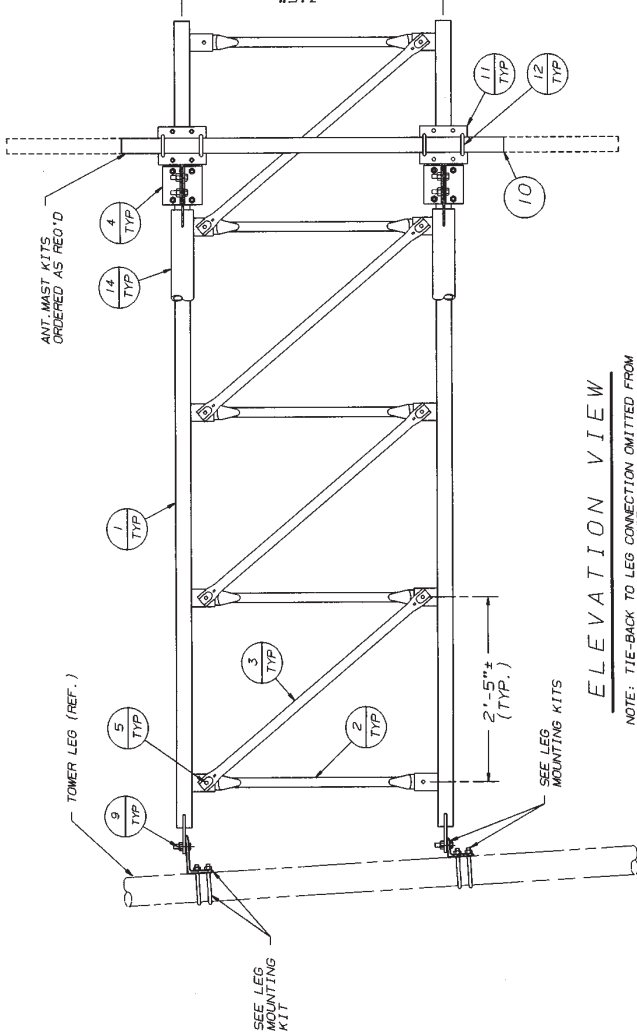
ITEM	QTY.	25TD X 12"	2-1/2STD X 15"	3STD X 20"	DWG. NO.
14	2	WY7678	KY1845	KY1956	SEE NOTE
15	4	JRB3AW	JRB3AW	JRB3AW	B651029

NOTE: TIE-BACK CONNECTION ANGLES MUST BE LOCATED AS CLOSE TO ANTENNA MAST AS POSSIBLE.



PLAN VIEW

NOTE: SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.



ELEVATION VIEW

NOTE: TIE-BACK TO LEG CONNECTION OMITTED FROM THIS VIEW FOR CLARITY.

ASSEMBLY NUMBER	LEG SIZE	UPPER ANGLE	LOWER ANGLE	DRAWING NUMBERS	U-BOLT ASSEMBLY B-REQ'D	TIE-BACK MTS PL. 2-REQ'D
KY1957A	2"	VY4379	VY4380	C901349	JRB3AW	KH4750
KY1958A	2 1/2"	VY4379	VY4380	C901349	JRB3AW	KH4750
KY1959A	3"	VY4379	VY4380	C901349	JRB3AW	KH4750
KY1960A	3 1/2"	VY4379	VY4380	C901349	JRB3AW	KH4750
KY1961A	4"	VY4379	VY4380	C901349	JRB3AW	KH4750
KY1962A	5"	VY4381	VY4382	C901352	JRB3AW	KH4751
KY1963A	6"	VY4381	VY4382	C901352	JRB3AW	KH4751
KY1964A	8"	VY4544	VY4545	C911643	JRB3AW	KH4752

ORDERING INFO

ORDER ( ) 10" GATE BOOM ASSY, KY1955A  
 ORDER ( ) 10" GATE BOOM KIT (SEE CHART FOR P/N)  
 ORDER ( ) ANTENNA MAST KIT AS REQUIRED.  
 ORDER ( ) TIE-BACK KIT AS REQUIRED. (2-TIE BACKS PER KIT)  
 GENERAL NOTES  
 1. ALL BOOM VERTICAL AND DIAGONAL BRACES ARE  
 2. FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.

REFERENCE DRAWINGS

(FOR EXP USE ONLY)  
 \* TIE-BACK PIPES WY7678 (B931363); KY1845 (B911712); KY1956 (B931437)  
 ANTENNA CONNECTION PLATE KH1614 (B910894); KY14 (C740106)

RoHN  
 10" GATE BOOM ASSEMBLY  
 (TAPERED)  
 (MTG. KITS 2" THRU 8" LEGS)  
 DRAWING NO.: C930719



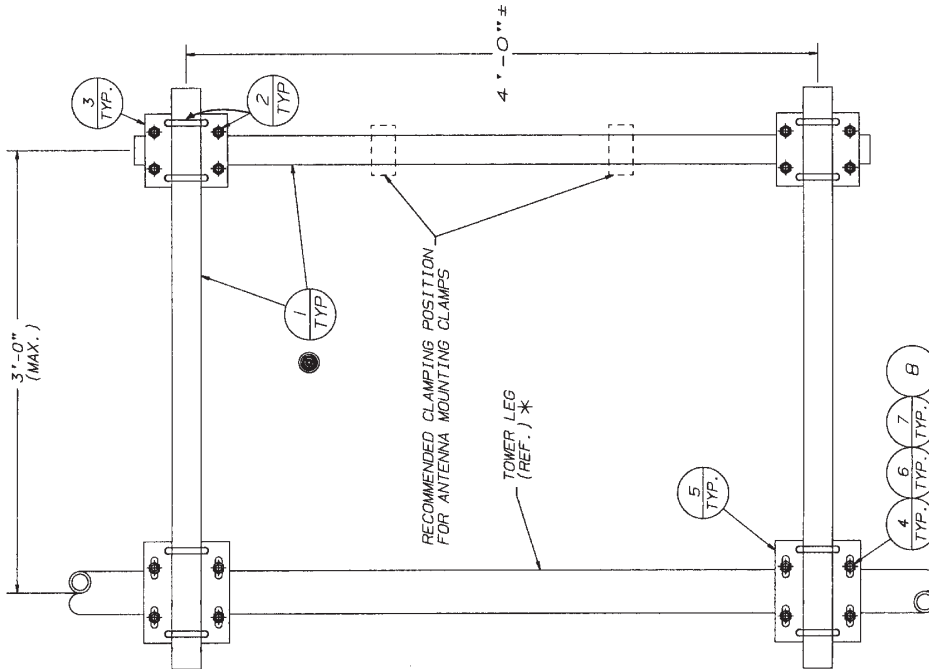


# Universal Tower Antenna Mounts

## BILL OF MATERIAL

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	3	KH275	MOUNTING PIPE 2STD X 5' LG.	B770160
2	12	JRB3A	U-BOLT ASSY	B651028
3	2	KY14	CONNECTION PLATE	C740106
4	2	SEE CHART	U-BOLT	B651028
5	2	SEE CHART	MOUNTING PLATE	BB10894
6	8	2500116	9/16" WASHER FOR U-BOLT	N/A
7	8	2300113	1/2" NUT FOR U-BOLT	N/A
8	8	2300111	1/2" PAL NUTS	N/A

ASSY P/N	PIPE LEG (O.D.)	MTG PLATE (QTY-2)	U-BOLT (QTY-4 EA.)
SA324A	2.375-4.5	KH1614	JRB3 JRB4 JRB9 JRB5 JRB8
SA356A	5.56-6.63	KH1615	JRB6 JRB7
SA38A	8.75	KH1716	JR90S
SA310A	10.75	KH1960	JR110
SA312A	12.75	KH1961	JR120



## NOTES

1. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
2. THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 300# THRUST.
3. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.
4. SIDE ARM ORIENTATION MAY VARY FROM TOWER AXIS.
- \* 5. CHECK TOWER ASSY DWG. FOR LEG SIZE TO DETERMINE IF B\* (P/N: KH2229) MOUNTING PIPE IS NEEDED INSTEAD OF 5" (P/N: KH275) MOUNTING PIPE IN ITEM #1. ADD AN 8 TO THE END OF THE PART NUMBER. (EXAMPLE: SA324A8)
6. NUMBERS SHOWN IN BALLOONS DENOTES ITEM NUMBER IN BILL OF MATERIAL.

No.	Revision	Description	Date	By	App'd
1					

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**ROHN**

Title: **3" SIDE ARM ASSEMBLY FOR STRAIGHT OR TAPERED TOWER SECTIONS**

Drawn: JDM 3-19-89  
 Checked: JZ 3/29/99  
 App. Eng.: TS 3/2/99  
 App. Sales: \_\_\_\_\_

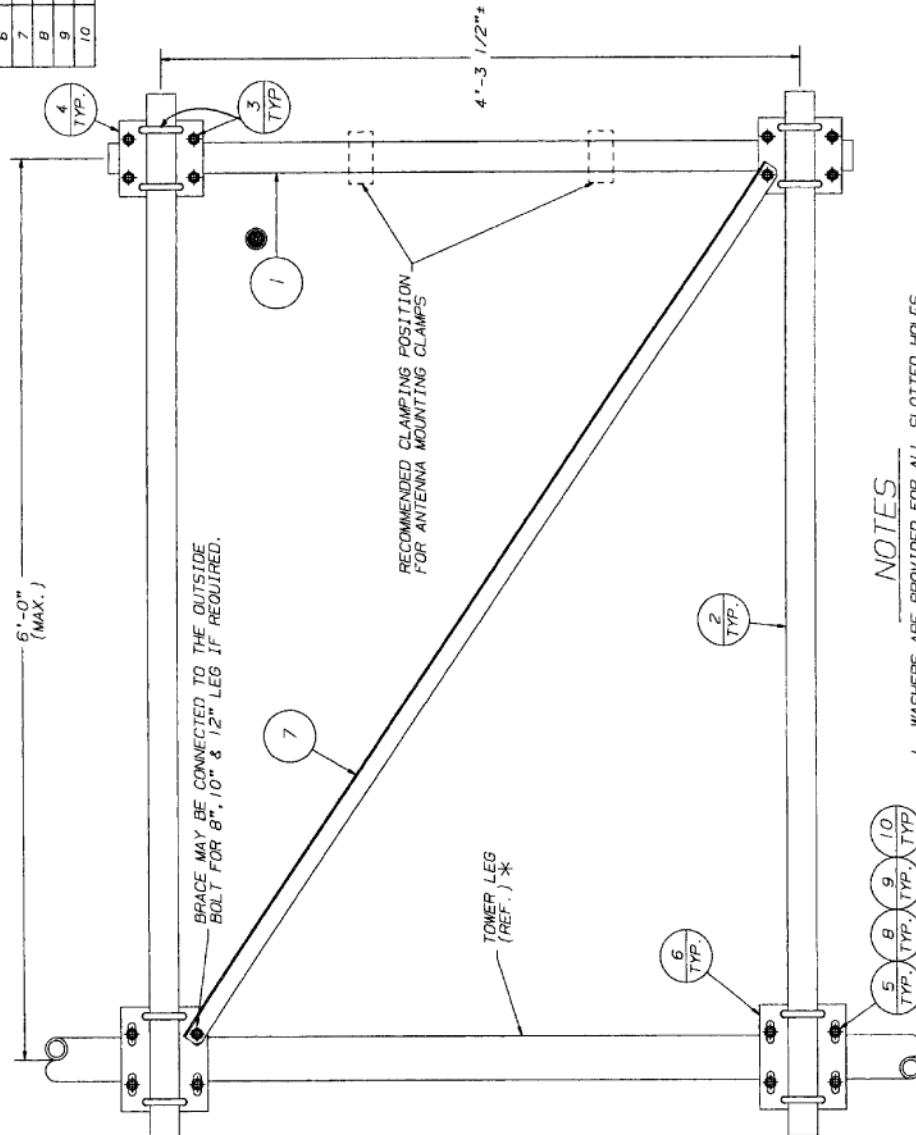
DRAWING NO.: C930849



BILL OF MATERIAL

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	1	KH275	MOUNTING PIPE 25TD X 5' LG.	8770160
2	2	KH1304	MOUNTING PIPE 25TD X 8' LG.	8770160
3	12	JR83A	U-BOLT ASSY	8651028
4	2	KY14	CONNECTION PLATE	C740106
5	4	SEE CHART	U-BOLT	8651028
6	2	SEE CHART	MOUNTING PLATE	8810894
7	1	KH1616	BRACE L1-1/2 X 1/8	8810895
8	8	2500116	3/16" WASHER FOR U-BOLT	N/A
9	8	2300113	1/2" NUT FOR U-BOLT	N/A
10	8	2300111	1/2" PAL NUT	N/A

ASSY P/N	PIPE LEG (O.D.)	MTG PLATE (QTY-2)	U-BOLT (QTY-4 EA.)
SA624A	2.375-4.5	KH1614	JR83 JR84 JR89 JR88 JR85
SA656A	5.56-6.63	KH1615	JR86 JR87
SA68A	8.75	KH1716	JR90S
SA610A	10.75	KH1960	JR110
SA612A	12.75	KH1961	JR120



NOTES

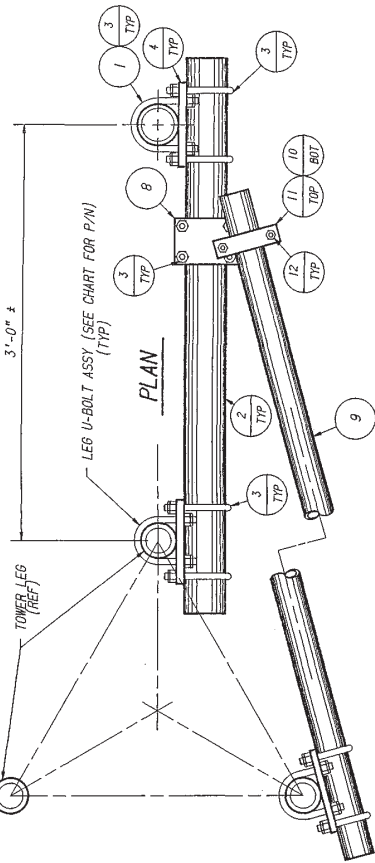
1. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
2. THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 300# THRUST.
3. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.
4. SIDE ARM ORIENTATION MAY VARY FROM TOWER AXIS.
- \* 5. CHECK TOWER ASSY DWG. FOR LEG SIZE TO DETERMINE ASSY NO. REQUIRED.
6. IF 8" (P/N: KH2229) MOUNTING PIPES ARE NEEDED INSTEAD OF 5" (P/N: KH275) MOUNTING PIPES IN ITEM # 1, ADD AN 8 TO THE END OF THE PART NUMBER. (EXAMPLE: SA624A8)
7. NUMBERS SHOWN IN BALLOONS DENOTES ITEM NUMBER IN BILL OF MATERIAL.

No. Revision Description Date Rev. By. Chd. By. App. By.  
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**ROHN**  
 Title:  
 6" SIDE ARM ASSEMBLY FOR STRAIGHT OR TAPERED TOWER SECTIONS  
 Date: 3/29/99  
 Drawn: JDM  
 Checked: JPL  
 App. Eng.: JPL  
 App. Sales: JPL  
 DRAWING NO.: C-990368

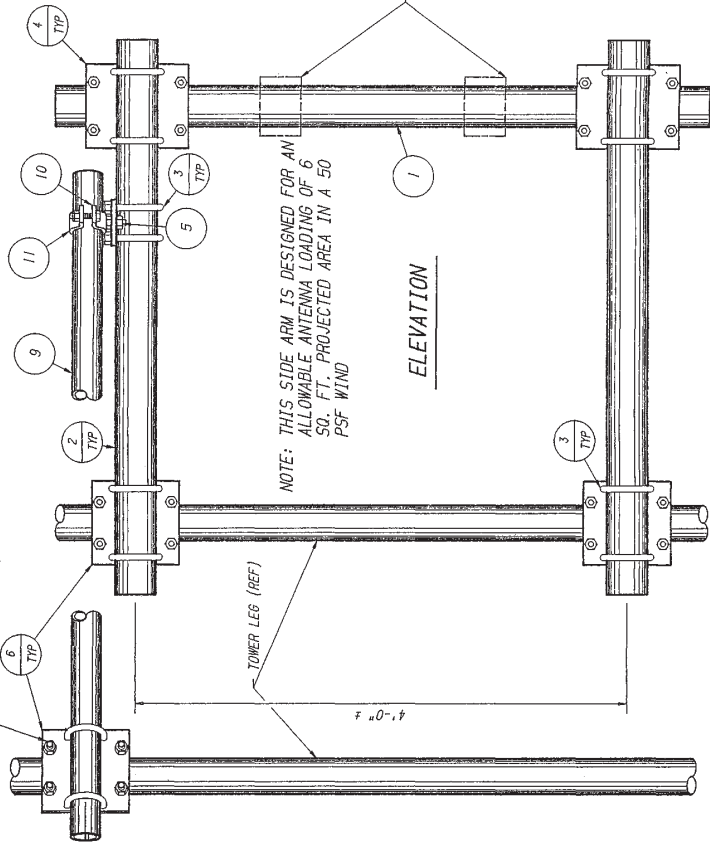


# Universal Tower Antenna Mounts

NOTE: SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.



NOTE: THIS SIDE ARM IS DESIGNED FOR AN ALLOWABLE ANTENNA LOADING OF 6 SQ. FT. PROJECTED AREA IN A 50 PSF WIND



SIDE ARM ASSEMBLY BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	1	RH275	MOUNTING PIPE 25TD X 5'-0" LG.	B770160
2	2	RH1279	MOUNTING PIPE 25TD X 4'-0" LG.	B770160
3	16	JRB6A	U-BOLT ASSY	6651029
4	2	RY14	CONNECTION PLATE	C740106
5	1	230015	1/2" ANOD NUT	N/A
6	3	RH1614	MOUNTING PLATE	BH10894
7	6	SEE CHART	LEG U-BOLT ASSY W/WASHERS	6651028
8	1	RY1159	TIE-BACK CONNECTION PLATE	6641241
9	1	RH293	SWAY BRACE 25TD X 13'-4" LG.	B770160
10	1	RY1073	SADDLE CLAMP (LOWER)	6640824
11	1	D114	SADDLE CLAMP (UPPER)	B770214
12	2	2100136A	3/8 X 4 BOLT ASSY	C770004

NOTE: WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES

TOWER LEG SIZE	SIDE ARM ASSY P/N	LEG U-BOLT ASSY P/N
2" PIPE	SA32PL1TB	JRB3AW
2 1/2" PIPE	SA329PL1TB	JRB4AW
3" PIPE	SA33PL1TB	JRB6AW
3 1/2" PIPE	SA339PL1TB	JRB9AW
4" PIPE	SA34PL1TB	JRB5AW

NOTE: THIS TIE-BACK ARRANGEMENT IS TO BE USED ONLY AT LOCATIONS ON TOWERS WITH A FACE SPREAD OF 8'-6"± OR LESS

RECOMMENDED ANTENNA CLAMPING POSITIONS

ELEVATION

NO.	Revision Description	Date	By
R2	REDRAWN & ADDED NOTE	2-6-90	JFH/TJZ
R1	RH293 WAS. RY293 IN B.O.M.	12/19/86	RKB

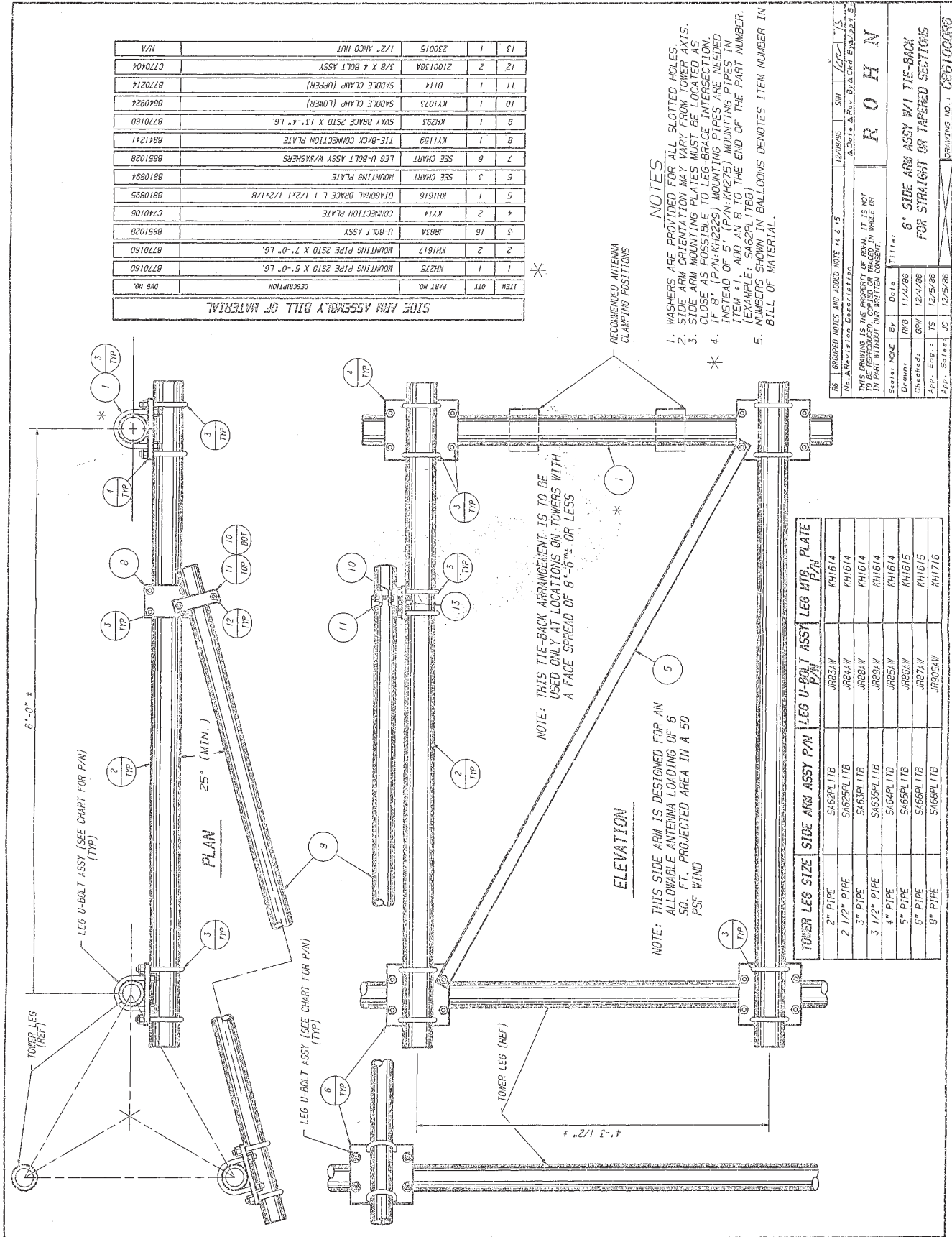
## ROHN®

3' SIDE ARM ASSY W/1 TIE-BACK FOR STRAIGHT OR TAPERED TOWER SECTIONS

Scale	None	Unless otherwise specified, dimensions are given in inches.
Drawn by	RKB	11/4/86
Checked by	GFW	12/4/86
Approved by	Engle	12/5/86
Approved by Production		

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Approved by Sales: JJC Date: 12/5/86 Drawing Number: C861003 R2



**SIDE ARM ASSEMBLY BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	DRG. NO.
1	1	KH275	MOUNTING PIPE 2510 X 5'-0" LG.	B770160
2	2	KH1617	MOUNTING PIPE 2510 X 7'-0" LG.	B770160
3	16	JR03A	U-BOLT ASSY	B651020
4	2	KY14	CONNECTION PLATE	C710106
5	1	KH1616	DIAGONAL BRACE L 1/2X1 1/2X1/8	B810935
6	3	SEC CHANT	MOUNTING PLATE	B810894
7	6	SEC CHANT	LEG U-BOLT ASSY W/WASHERS	B651020
8	1	KY1159	TIE-BACK CONNECTION PLATE	B841241
9	1	KH293	SWAY BRACE 2510 X 13'-4" LG.	B770160
10	1	KY1073	SADDLE CLAMP (LOWER)	B640924
11	1	D114	SADDLE CLAMP (UPPER)	B770214
12	2	2100136A	5/8 X 4 BOLT ASSY	C770104
13	1	230015	1/2" ANCO NUT	N/A

- NOTES**
1. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  2. SIDE ARM ORIENTATION MAY VARY FROM TOWER AXIS.
  3. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION IF 8". (P/N: KH2229) MOUNTING PIPES ARE NEEDED INSTEAD OF 5". (P/N: KH275) MOUNTING PIPES IN ITEM #1. ADD AN 8 TO THE END OF THE PART NUMBER. (EXAMPLE: SAG2PL1TB9)
  4. NUMBERS SHOWN IN BALLOONS DENOTES ITEM NUMBER IN BILL OF MATERIAL.

GROUPED NOTES AND ADDD NOTE # 4, 5

No. Revision Description

12/09/95 SHI 1/2 15  
 Deleted Rev. By: A.C. Ed. By: A.C. Ed. By: A.C. Ed.

**R O H N**

Scale: NONE By: Date Title:   
 Drawn: RIB 11/24/86   
 Checked: BNY 12/4/86   
 App. Eng.: TS 12/5/86   
 App. Sales: JC 12/5/86

8" SIDE ARM ASSY W/ TIE-BACK FOR STRAIGHT OR TAPERED SECTIONS

DRAWING NO. 028100380

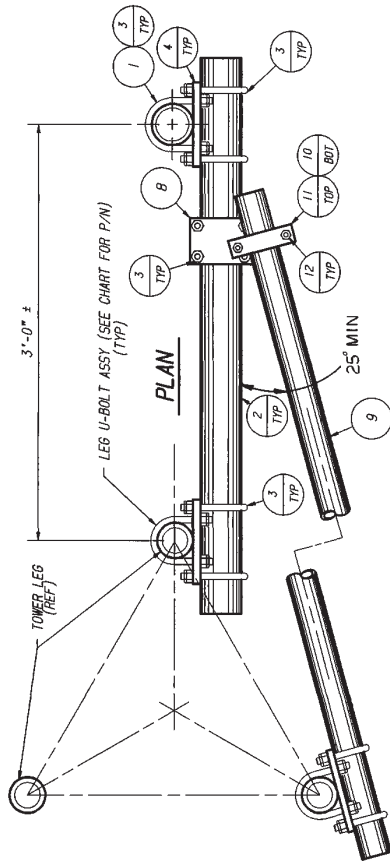
TOWER LEG SIZE	SIDE ARM ASSY P/N	LEG U-BOLT ASSY P/N	LEG RTG. PLATE P/N
2" PIPE	SAG2PL1TB	JR03AW	KH1614
2 1/2" PIPE	SAG25PL1TB	JR03AW	KH1614
3" PIPE	SAG3PL1TB	JR03AW	KH1614
3 1/2" PIPE	SAG35PL1TB	JR03AW	KH1614
4" PIPE	SAG4PL1TB	JR03AW	KH1614
5" PIPE	SAG5PL1TB	JR03AW	KH1615
6" PIPE	SAG6PL1TB	JR03AW	KH1615
8" PIPE	SAG8PL1TB	JR03AW	KH1616



# Universal Tower Antenna Mounts

SIDE ARM ASSEMBLY BILL OF MATERIAL		
ITEM	QTY	PART NO. DESCRIPTION DWG. NO.
1	1	KH275 MOUNTING PIPE 25TD X 5'-0" LG. B770160
2	2	KH1279 MOUNTING PIPE 25TD X 4'-0" LG. B770160
3	20	JRB34 U-BOLT ASSY. B651028
4	2	KY14 CONNECTION PLATE C740106
5	2	230015 1/2" ANCD NUT N/A
6	4	KH1614 MOUNTING PLATE B910894
7	8	SEE CHART LEG U-BOLT ASSY W/WASHERS B651028
8	2	KY1189 TIE-BACK CONNECTION PLATE B941241
9	2	KH293 SWAY BRACE 25TD X 13'-4" LG. B770160
10	2	KY1073 SADDLE CLAMP (LOWER) B640824
11	2	D114 SADDLE CLAMP (UPPER) B770214
12	4	21001364 3/8" X 4" BOLT ASSY. C770404

NOTE: WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES

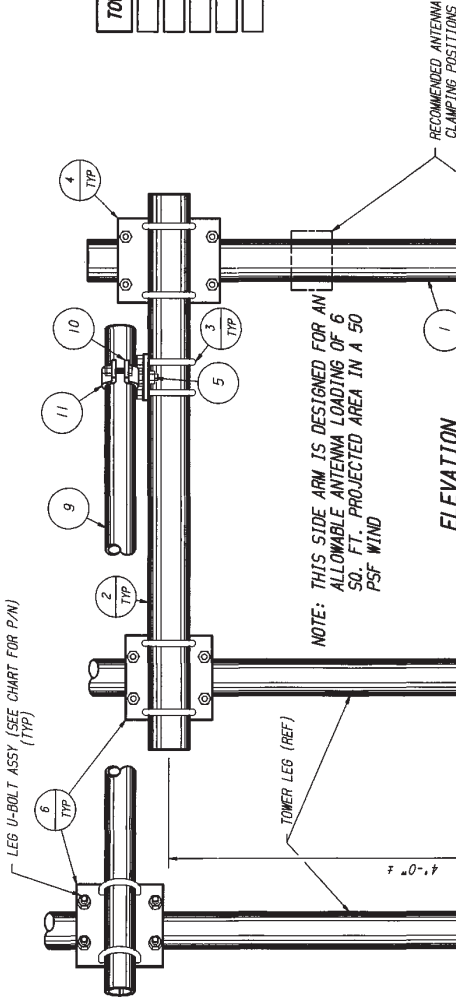


TOWER LEG SIZE	SIDE ARM ASSY P/N	LEG U-BOLT ASSY P/N
2" PIPE	SA32PL2TB	JRB34W
2 1/2" PIPE	SA329PL2TB	JRB44W
3" PIPE	SA33PL2TB	JRB44W
3 1/2" PIPE	SA339PL2TB	JRB94W
4" PIPE	SA34PL2TB	JRB54W

NOTE: THIS TIE-BACK ARRANGEMENT IS TO BE USED ONLY AT LOCATIONS ON TOWERS WITH A FACE SPREAD OF 8'-6"± OR LESS

NOTE: SIDE ARM ORIENTATION MAY VARY FROM TOWER AXIS.

NOTE: SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.



R3	ADDED 25° ORIENTATION AND NOTE	8-30-91	WEB	W5
R2 <td>ADDED SIDE ARM NOTE</td> <td>6/11/86</td> <td>WEB</td> <td>W5</td>	ADDED SIDE ARM NOTE	6/11/86	WEB	W5
R1 <td>KH293 WAS KY293 IN B. O. M.</td> <td>12/18/86</td> <td>RKB</td> <td>JZL</td>	KH293 WAS KY293 IN B. O. M.	12/18/86	RKB	JZL
No. Revision Description Date Rev. By. Ck. By. App. By.				

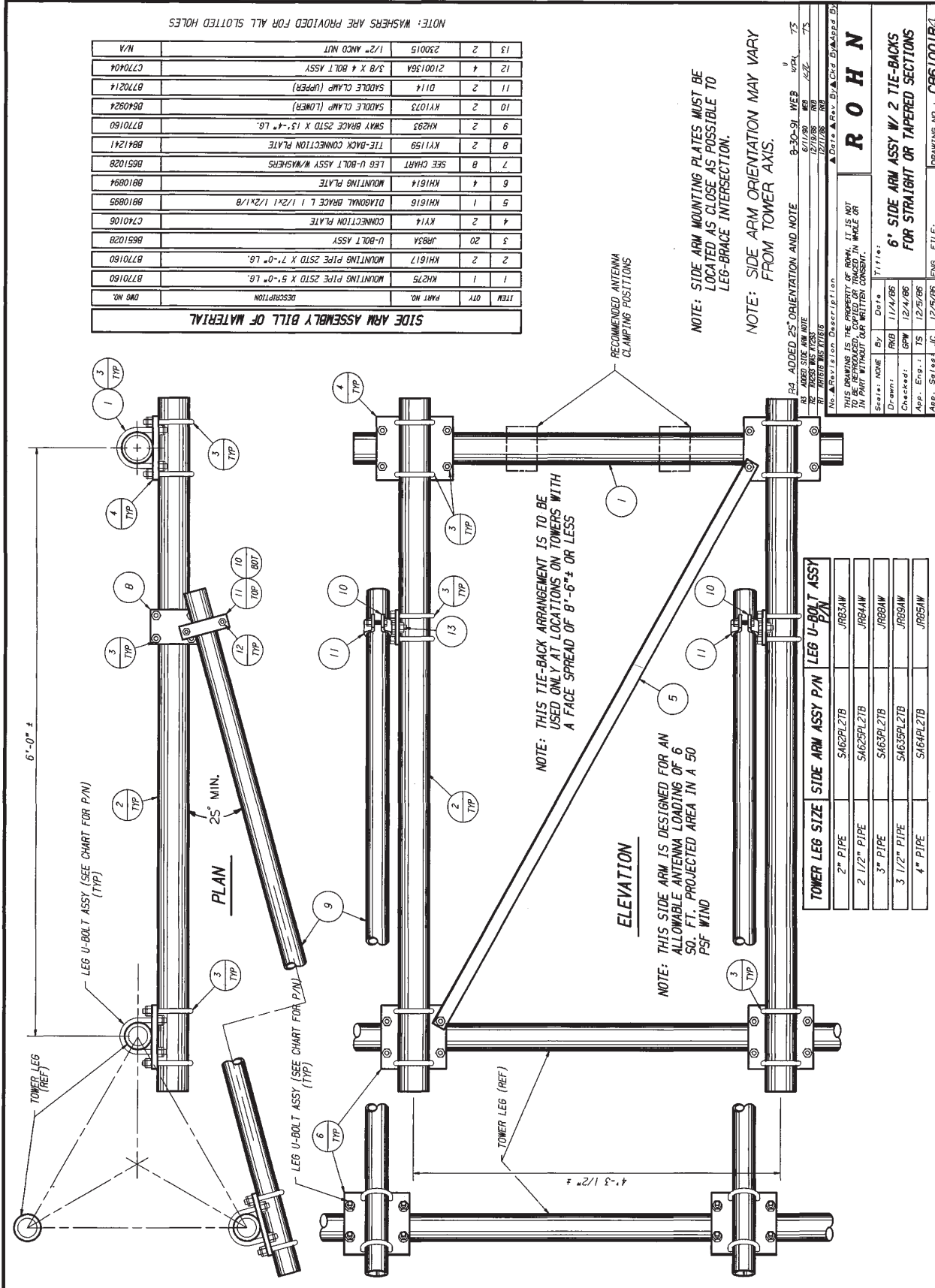
**ROHN**

Scale:	NOE	By:	Date:	Title:
Drawn:	RKB	GPW	12/14/86	3" SIDE ARM ASSY W/2 TIE-BACKS FOR STRAIGHT OR TAPERED TOWER SECTIONS
Checked:	GPW	TS	12/15/86	
App. Eng.:	TS	JC	12/15/86	
App. Sales:	JC			

DRAWING NO.: CB61004R3

ENG. FILE:





**SIDE ARM ASSEMBLY BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION
1	1	KH275	MOUNTING PIPE 25TD X 5'-0" LG.
2	2	KH167	MOUNTING PIPE 25TD X 7'-0" LG.
3	20	JRB3A	U-BOLT ASSY
4	2	KY14	CONNECTION PLATE
5	1	KH166	DIAGONAL BRACE L 1/2X1 1/2X1/8
6	4	KH164	MOUNTING PLATE
7	8	SEE CHART	LEG U-BOLT ASSY W/WASHERS
8	2	KY159	TIE-BACK CONNECTION PLATE
9	2	KH293	SWAY BRACE 25TD X 13'-4" LG.
10	2	KY1073	SADDLE CLAMP (LOWER)
11	2	D114	SADDLE CLAMP (UPPER)
12	4	2100136A	3/8 X BOLT ASSY
13	2	230015	1/2" ANCO NUT

N/A

NOTE: WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES

250 ADDED SIDE ARM NOTE 6/11/99 WEB u 7/3

12/19/98 RHP 4/22 7/3

12/19/98 RHP 4/22 7/3

12/19/98 RHP 4/22 7/3

No. Revision Description

▲ Date ▲ Rev. By ▲ Chg. By ▲ App. By

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Scale: NONE	Date: 11/14/95
Drawn: RHP	12/14/95
Checked: RHP	12/14/95
App. Eng.: TS	12/15/95
App. Sales: JC	12/25/95

6" SIDE ARM ASSY W/ 2 TIE-BACKS FOR STRAIGHT OR TAPERED SECTIONS

DRAWING NO.: CBS1001R4

**TOWER LEG SIZE SIDE ARM ASSY P/N LEG U-BOLT ASSY P/N**

2" PIPE	S162PL21B	JRB3AW
2 1/2" PIPE	S1625PL21B	JRB4AW
3" PIPE	S163PL21B	JRB5AW
3 1/2" PIPE	S1635PL21B	JRB6AW
4" PIPE	S164PL21B	JRB5AW





# Universal Tower Antenna Mounts

P/N VY4493A SIDE ARM ASSEMBLY BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	VY4491	TOP AND BOTTOM SUPPORT ANGLE	B911106
2	4	VY4483	TOP AND BOTTOM BRACKET SUPPORTS	B910899
3	1	VY4490	DIAG. KNEE BRACE	B911102
4	1	KH1215	MOUNTING PIPE (3 1/2" X 6'-8")	B790909
5	4	JRB59A	U-BOLT ASSY.	B651028
6	8	2100196A	BOLT ASSY. 1/2" X 1.3/4"	C770404
7	2	2100186A	BOLT ASSY. 1/2" X 1.1/2"	C770404

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
8	1	VY4489	1 1/2" TIE-BACK 2 STD PIPE	B911101
9	1	VY4484	1 5/8" TIE-BACK 2 1/2 STD PIPE	B910899
10	1	VY4063	TIE-BACK PLATE	B871009
11	2	JRB44A	U-BOLT ASSY.	B651028
12	1	KH1614	TIE-BACK PLATE	B810894
13	2	JRB34A	U-BOLT ASSY.	C770404
14	1	2100306A	BOLT ASSY (5/8" X 1.3/4")	C770404

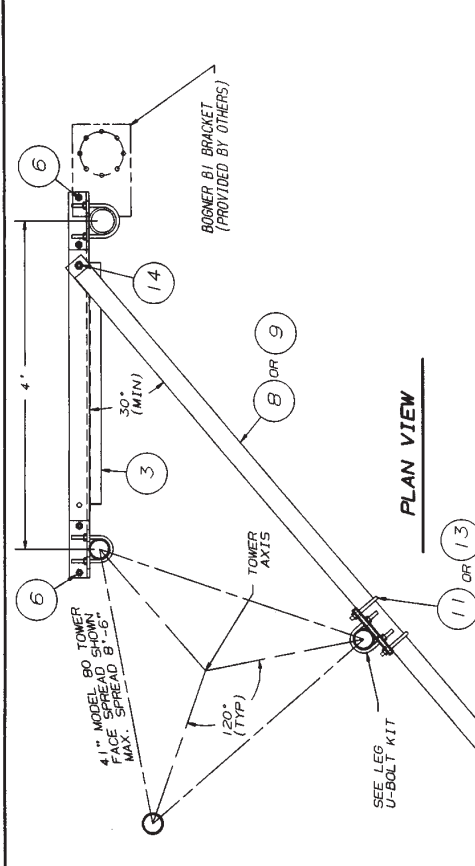
LEG U-BOLT KITS	
LEG SIZE	U-BOLT P/N KIT ASSY P/N
1 1/2"	JRB34A
2"	JRB34W
2 1/2"	JRB44W
3"	JRB54W
3 1/2"	JRB64W
4"	JRB74W

### SIDE ARM ORDERING INFORMATION

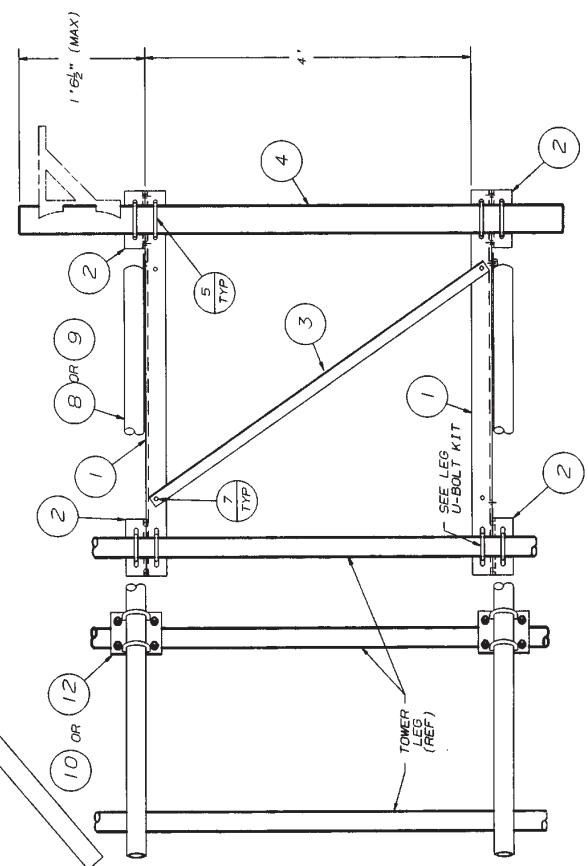
- 1 - SIDE ARM ASSEMBLY
- 2 - LEG U-BOLT KIT ASSEMBLIES
- 3 - TIE-BACK KIT ASSEMBLIES

### GENERAL NOTES

1. PAL NUTS ARE PROVIDED FOR ALL BOLTS.
2. FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
3. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.
4. BRACES HAVE BEEN OMITTED FOR CLARITY.
5. OF SIDE ARM CONNECTION PLATES.
6. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES. MOMENT FROM THE ANTENNA OF 4.2 FT-KIPS



PLAN VIEW



ELEVATION

REVISION	DATE	BY	CHKD BY
1	12-29-94	JCM	UWB
2	5-15-91	RWB	JDM
▲ Date ▲ Rev. By ▲ Chk. By ▲ App. By			
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Scale:	DATE	TITLE	
Drawn: RWB	4-18-91	4" SIDE ARM ASSY W/2 TIE BACKS	
Checked: WDU	5-3-91	EMR10 & EMR12 ANTENNAS (STRAIGHT)	
App. Eng.: TS	5-10-91	R O H N	
App. Sales: JC	5-10-91	DRAWING NO.: C911040 R2	



**P/N VY4494A SIDE ARM ASSEMBLY BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	2	VY4482	TOP AND BOTTOM SUPPORT ANGLE	C910878
2	4	VY4483	TOP AND BOTTOM BRACKET SUPPORTS	B910988
3	1	VY4061	DIAG. KNEE BRACE	B971007
4	1	KH1215	MOUNTING PIPE (3 1/2" X 6'-8")	B790909
5	4	JRB9A	U-BOLT ASSY	B951028
6	6	2100186A	BOLT ASSY 1/2" X 1 3/4"	C770404
7	2	2100186A	BOLT ASSY 1/2" X 1 1/2"	C770404

**★ P/N VY4496A 11" TIE-BACK ASSY (5" MAX. F.S.)**  
**★★ P/N VY4497A 15" TIE-BACK ASSY (8" MAX. F.S.)**

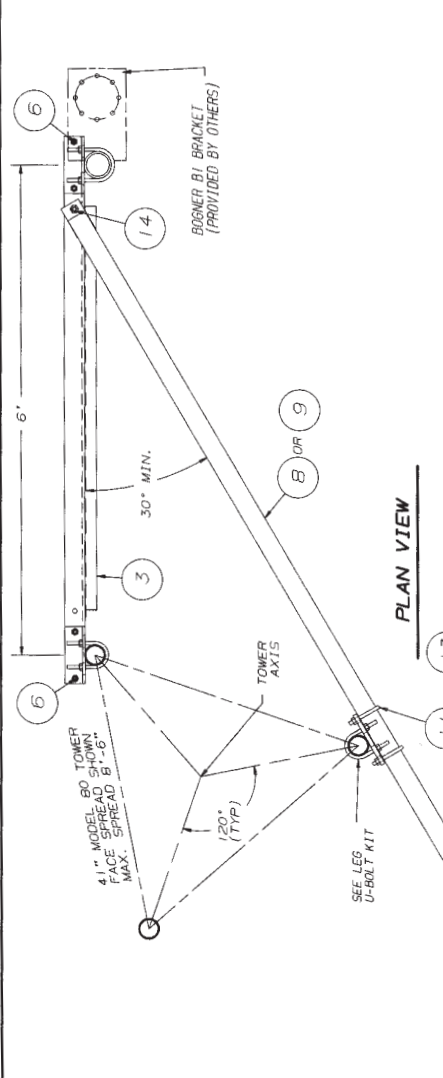
ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
8	1	VY4488	11" TIE-BACK 2 STD PIPE	B911101
9	1	VY4484	15" TIE-BACK 2 1/2 STD PIPE	B910999
10	1	VY4063	TIE-BACK PLATE	B971009
11	2	JRB4A	U-BOLT ASSY	B951028
12	1	KH1614	TIE-BACK PLATE	B910894
13	2	JRB3A	U-BOLT ASSY	C770404
14	1	2100306A	BOLT ASSY (5/8" X 1 3/4")	C770404

**LEG U-BOLT KITS**

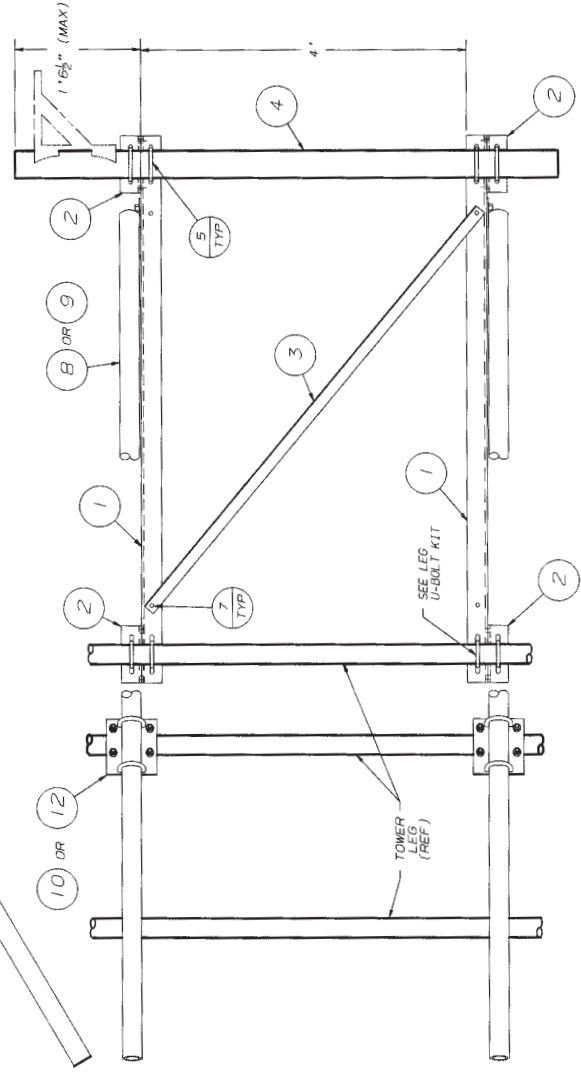
LEG SIZE	U-BOLT KIT ASSY P/N
2"	JRB3AW
2-1/2"	JRB4AW
3"	JRB5AW
3-1/2"	JRB6AW
4"	JRB7AW

**SIDE ARM ORDERING INFORMATION**

- 1 - SIDE ARM ASSEMBLY
  - 2 - LEG U-BOLT KIT ASSEMBLIES
  - 2 - TIE-BACK KIT ASSEMBLIES
- GENERAL NOTES**
1. PAL NUTS ARE PROVIDED FOR ALL BOLTS.
  2. FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  3. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.
  4. BRACES HAVE BEEN OMITTED FOR CLARITY.
  5. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  6. THIS SIDE ARM IS DESIGNED FOR A MAXIMUM OVERTURNING MOMENT FROM THE ANTENNA OF 4.2 FT-KIPS



**PLAN VIEW**



**ELEVATION**

RE	QTY CHANGE IN ITEM'S ID.	12.	14	12-29-91	JDM	U302	7/3
RT	KH1614 WAS VY1614			5-11-91	RWB	RWB	7/3

No. Revision Description Date Rev. By. Ckd. By. App. By.

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Scale:	None	By:	Date:
Drawn:	RWB	4-18-91	
Checked:	WCU	5-3-91	
App. Eng.:	TS	5-10-91	
App. Sales:	JC	5-10-91	

Title:  
**6" SIDE ARM ASSY W/2 TIE BACKS  
BMR10 & BMR12 ANTENNAS (STRAIGHT)**

DRWING NO.: **C910877 R.2**



# Universal Tower Antenna Mounts

**P/N VY4495A SIDE ARM ASSEMBLY BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	VY4492	TOP AND BOTTOM SUPPORT ANGLE	C911037
2	4	VY4483	TOP AND BOTTOM BRACKET SUPPORTS	B910999
3	1	VY4512	DIAG. KNEE BRACE	B911103
4	1	KH1215	MOUNTING PIPE (3 1/2" X 6'-8")	B790909
5	4	JRB99A	U-BOLT ASSY	B651028
6	8	2100196A	BOLT ASSY 1/2" X 1 3/4"	C770404
7	2	2100186A	BOLT ASSY 1/2" X 1 1/2"	C770404

★ P/N VY4496A 11" TIE-BACK ASSY (5" MAX. F. S.)  
 ★★ P/N VY4497A 15" TIE-BACK ASSY (8" -6" MAX. F. S.)

ITEM	★	★	★	PART NO.	DESCRIPTION	DWG NO.
8	1	---	---	VY4486	11" TIE-BACK 2 STD PIPE	B911101
9	---	1	---	VY4484	15" TIE-BACK 2 1/2 STD PIPE	B910999
10	---	---	1	VY4063	TIE-BACK PLATE	B871028
11	---	---	2	JRB4A	U-BOLT ASSY	B651028
12	1	---	---	KH1614	TIE-BACK PLATE	B610894
13	2	---	---	JRB3A	U-BOLT ASSY	C770404
14	1	---	---	2100306A	BOLT ASSY (5/8" X 1 3/4")	C770404

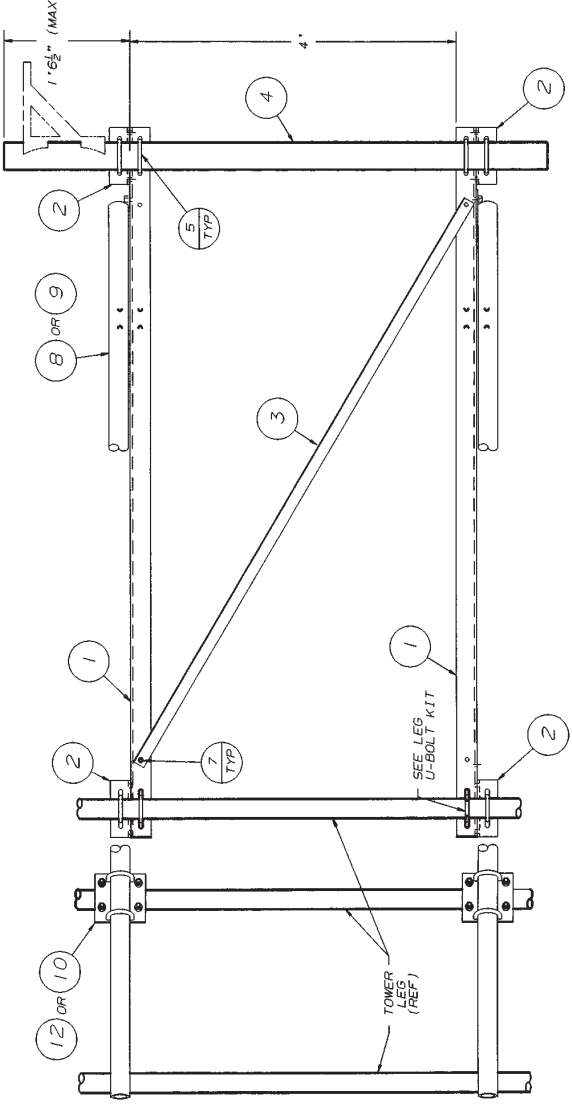
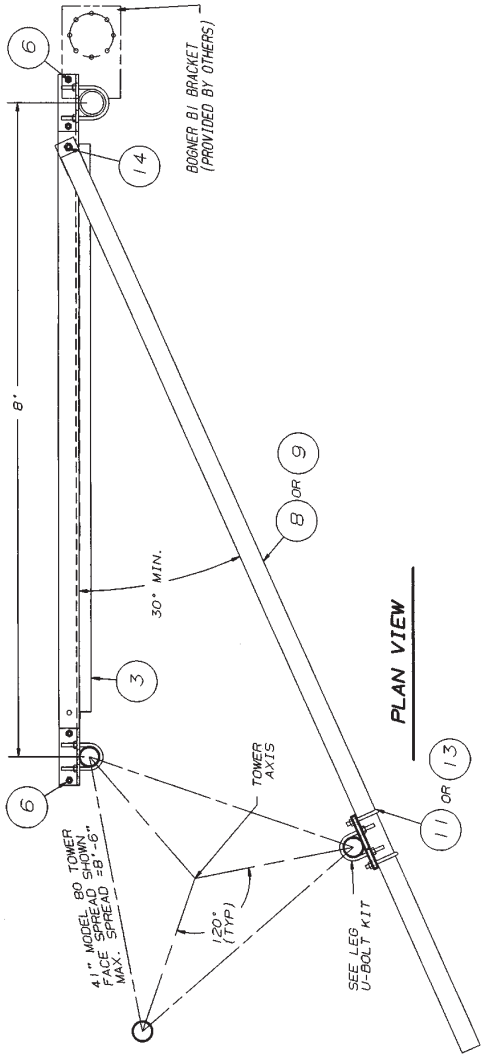
**LEG U-BOLT KITS**

LEG SIZE	U-BOLT P/N	KIT ASSY P/N
2"	JRB3AW	JRB3AW4
2-1/2"	JRB4AW	JRB4AW4
3"	JRB5AW	JRB5AW4
3-1/2"	JRB6AW	JRB6AW4
4"	JRB7AW	JRB7AW4

**SIDE ARM ORDERING INFORMATION**

1 - SIDE ARM ASSEMBLY  
 2 - LEG U-BOLT KIT ASSEMBLIES  
 2 - TIE-BACK KIT ASSEMBLIES

- GENERAL NOTES**
1. PAL NUTS ARE PROVIDED FOR ALL BOLTS.
  2. FLAT WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  3. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.
  4. BRACES HAVE BEEN OMITTED FOR CLARITY OF SIDE ARM CONNECTION PLATES.
  5. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  6. MOMENT FROM THE ANTENNA OF 4.2 FT-LBS



REV	DATE	DESCRIPTION	BY	CHKD	APP'D
1	12-29-98	JDM	WDM	WJS	
2	5-14-91	RKB	WDU		

▲ Date ▲ Rev. By ▲ Chd. By ▲ App'd By

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Scale: NONE  
 Drawn: RKB 4-18-91  
 Checked: WDU 5-3-91  
 App. Eng.: TS 5-10-91  
 App. Stress: JC 5-10-91

Title: **R O H N**  
**8" SIDE ARM ASSY W/2 TIE BACKS**  
**BMRTIO & BMRTZ ANTENNAS (STRAIGHT)**

DWG NO.: C911041 RE

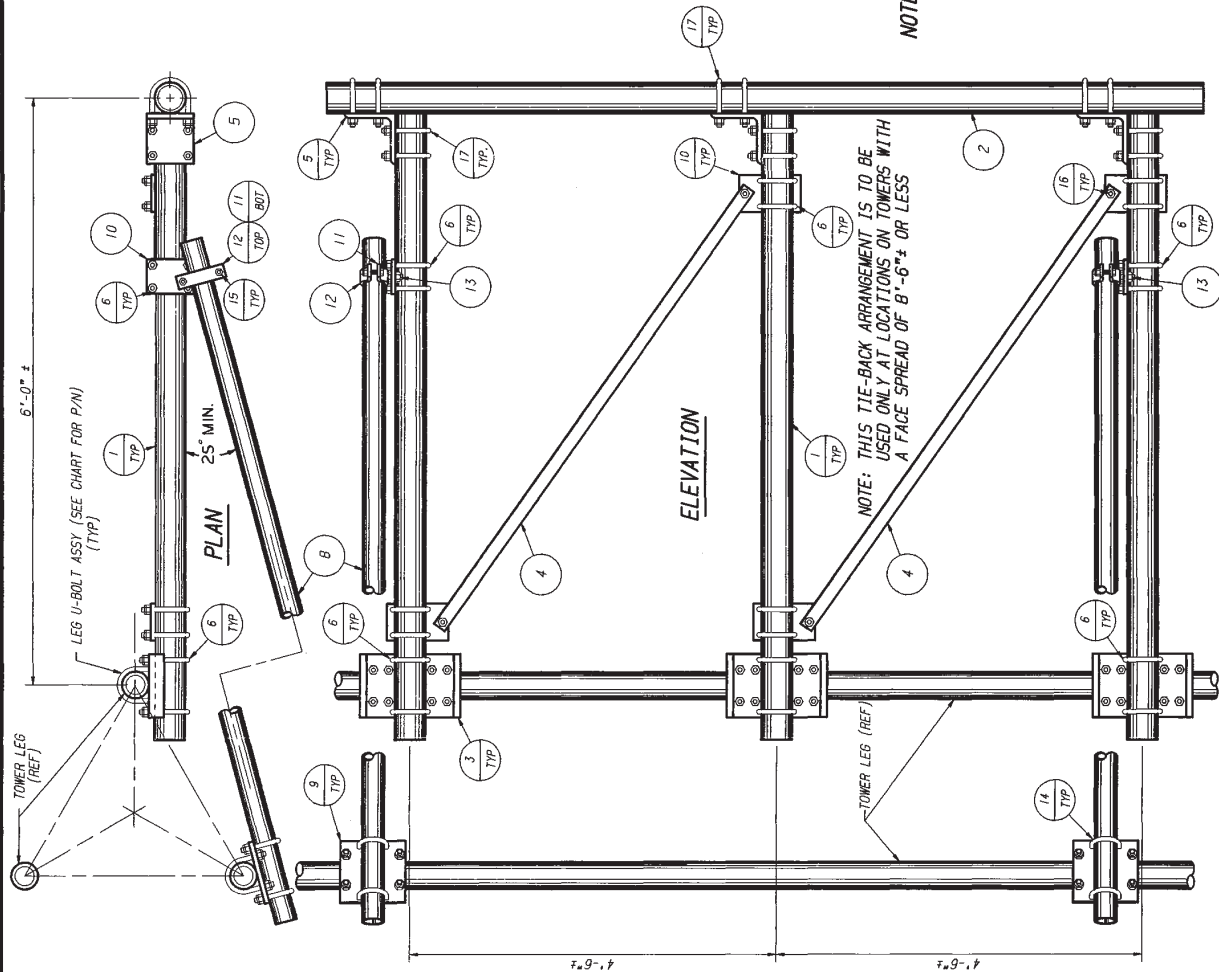


SIDE ARM ASSEMBLY BILL OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	3	HR25H1	HORIZONTAL MOUNTING PIPE	B770160
2	1	HR866	MOUNTING PIPE 2-1/2 STD X 12'-0" LG.	B770160
3	3	KY1296	SIDE ARM PLATE	CB60413
4	2	HR272	SIDE ARM BRACE	B630453
5	3	KY1215	SIDE ARM ANGLE	B650443
6	18	JRB4A	U-BOLT ASSY	B651028
7	16	SEE CHART	LEG U-BOLT ASSY W/WASHERS	B651028
8	2	HR693	SWAY BRACE	B770160
9	2	KY1614	CONNECTION PLATE	B610894
10	6	KY1078	CONNECTION PLATE	B630965
11	2	KY1073	SADDLE CLAMP (LOWER)	B640924
12	2	D114	SADDLE CLAMP (UPPER)	B770214
13	2	230015	1/2" ANCO NUT	N/A
14	4	JRB3A	U-BOLT ASSY	B651028
15	4	2100136A	3/8 X 4 BOLT ASSY	C770404
16	4	2100186A	1/2 X 1-1/2 BOLT ASSY	C770404
17	12	JRB4SA	U-BOLT ASSY	B730637

NOTE: WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES

TOWER LEG SIZE	SIDE ARM ASSY P/N	LEG U-BOLT ASSY P/N
2" PIPE	KY1297A	JRB3AW
2 1/2" PIPE	KY1298A	JRB4AW
3" PIPE	KY1299A	JRB6AW
3 1/2" PIPE	KY1300A	JRB5AW
4" PIPE	KY1301A	JRB6AW

NOTE: 1. SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.  
2. SIDE ARM ORIENTATION MAY VARY FROM TOWER AXIS.



No. Revision Description		Date	Rev. By	Chk. By	App. By
R4	ADDED 25° ORIENTATION AND NOTE	8-30-91	WEB	TS	
R3	REVISED U-BOLT LOCATIONS	6-27-91	WEB	TS	
R2	P/N KY1296 WAS KY1151; REDRAWN	7-7-88	JHD/WRF	KTL	TS
R1	ADD 2-KY1078 & BRACES WERE KY1077	1/11/88	JHD	WDU	TS

▲ Date ▲ Rev. By ▲ Chk. By ▲ App. By

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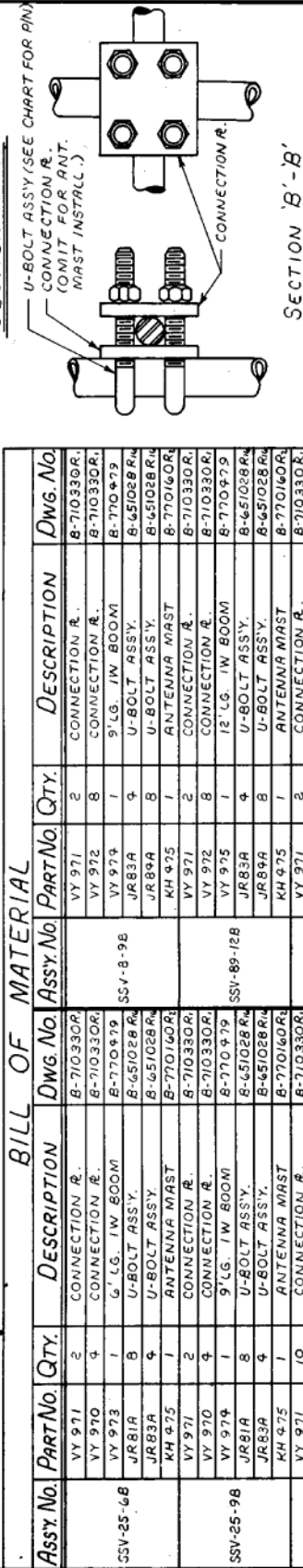
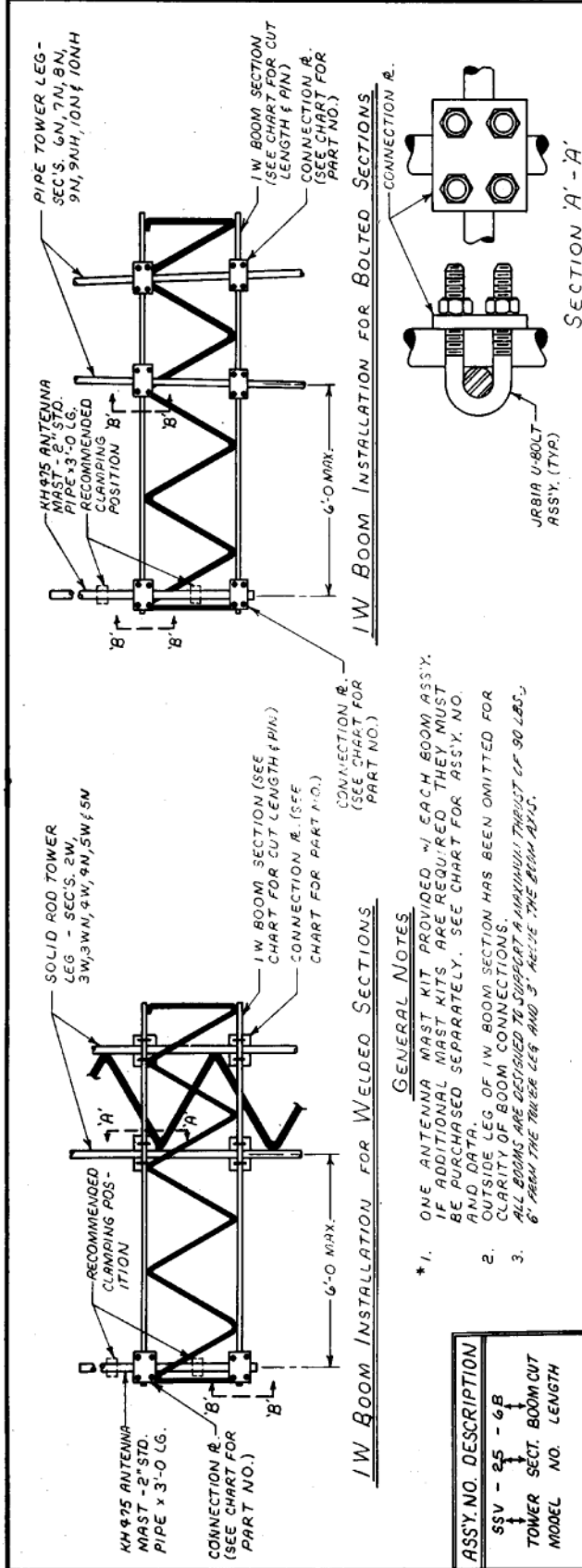
Scale:	None	By:	Date:	Title:
Drawn:	GLJ	4/30/86		UNIVERSAL HEAVY SIDE ARM ASSEMBLY FOR PD1132D ANTENNA
Checked:	KTL	4/30/86		
App. Eng.:	TS	5/6/86		
App. Sales:	JC	5/6/86		

ENG. FILE: CB60449R4





# Universal Tower Antenna Mounts



**GENERAL NOTES**

- \* 1. ONE ANTENNA MAST KIT PROVIDED IN EACH BOOM ASSY. IF ADDITIONAL MAST KITS ARE REQUIRED, THEY MUST BE PURCHASED SEPARATELY. SEE CHART FOR ASSY. NO. AND DATA.
2. OUTSIDE LEG OF I W BOOM SECTION HAS BEEN OMITTED FOR CLARITY OF BOOM CONNECTIONS.
3. ALL BOOMS ARE DESIGNED TO SUPPORT A MAXIMUM THROUST OF 90 LBS., 6\"/>

## BILL OF MATERIAL

Assy. No.	Part No.	QTY.	Description	Dwg No.	Assy. No.	Part No.	QTY.	Description	Dwg No.
SSV-25-68	VY 971	2	CONNECTION R.	B-710330R	VY 971	2	CONNECTION R.	B-710330R	
	VY 970	4	CONNECTION R.	B-710330R	VY 972	8	CONNECTION R.	B-710330R	
	VY 973	1	6\"/>						
	JR 81A	8	U-BOLT ASSY.	B-651028R	JR 83A	4	9\"/>		
	KH 975	1	ANTENNA MAST	B-770160R	KH 975	1	ANTENNA MAST	B-770160R	
	VY 971	2	CONNECTION R.	B-710330R	VY 971	2	CONNECTION R.	B-710330R	
	VY 970	4	CONNECTION R.	B-710330R	VY 972	8	CONNECTION R.	B-710330R	
	VY 974	1	9\"/>						
	JR 81A	8	U-BOLT ASSY.	B-651028R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	JR 83A	4	U-BOLT ASSY.	B-651028R	KH 975	1	ANTENNA MAST	B-770160R	
SSV-25-98	VY 972	1	6\"/>						
	KH 975	1	ANTENNA MAST	B-770160R	VY 972	8	CONNECTION R.	B-710330R	
	VY 973	1	6\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	VY 976	1	15\"/>		
	KH 975	1	ANTENNA MAST	B-770160R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	VY 971	10	CONNECTION R.	B-710330R	JR 89A	8	U-BOLT ASSY.	B-651028R	
	VY 974	1	9\"/>						
	JR 81A	8	U-BOLT ASSY.	B-651028R	KH 975	1	ANTENNA MAST	B-770160R	
	JR 83A	4	U-BOLT ASSY.	B-651028R	VY 971	2	CONNECTION R.	B-710330R	
	KH 975	1	ANTENNA MAST	B-770160R	VY 972	8	CONNECTION R.	B-710330R	
SSV-6-68	VY 972	1	6\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	VY 976	1	15\"/>		
	KH 975	1	ANTENNA MAST	B-770160R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	VY 971	10	CONNECTION R.	B-710330R	JR 89A	8	U-BOLT ASSY.	B-651028R	
	VY 974	1	9\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	KH 975	1	ANTENNA MAST	B-770160R	
	KH 975	1	ANTENNA MAST	B-770160R	VY 971	2	CONNECTION R.	B-710330R	
	VY 971	10	CONNECTION R.	B-710330R	VY 972	8	CONNECTION R.	B-710330R	
	VY 974	1	9\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	VY 976	1	15\"/>		
SSV-6-98	VY 971	10	CONNECTION R.	B-710330R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	VY 974	1	9\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	JR 89A	8	U-BOLT ASSY.	B-651028R	
	KH 975	1	ANTENNA MAST	B-770160R	KH 975	1	ANTENNA MAST	B-770160R	
	VY 971	10	CONNECTION R.	B-710330R	VY 971	2	CONNECTION R.	B-710330R	
	VY 974	1	9\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	VY 972	8	CONNECTION R.	B-710330R	
	KH 975	1	ANTENNA MAST	B-770160R	VY 976	1	15\"/>		
	VY 971	10	CONNECTION R.	B-710330R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	VY 974	1	9\"/>						
SSV-7-158	VY 971	10	CONNECTION R.	B-710330R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	VY 974	1	9\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	JR 89A	8	U-BOLT ASSY.	B-651028R	
	KH 975	1	ANTENNA MAST	B-770160R	KH 975	1	ANTENNA MAST	B-770160R	
	VY 971	10	CONNECTION R.	B-710330R	VY 971	2	CONNECTION R.	B-710330R	
	VY 974	1	9\"/>						
	JR 83A	12	U-BOLT ASSY.	B-651028R	VY 972	8	CONNECTION R.	B-710330R	
	KH 975	1	ANTENNA MAST	B-770160R	VY 976	1	15\"/>		
	VY 971	10	CONNECTION R.	B-710330R	JR 83A	4	U-BOLT ASSY.	B-651028R	
	VY 974	1	9\"/>						

**UNARCO-ROHN**  
Division of Unarco Industries, Inc.

**I W BOOM INSTALLATIONS**

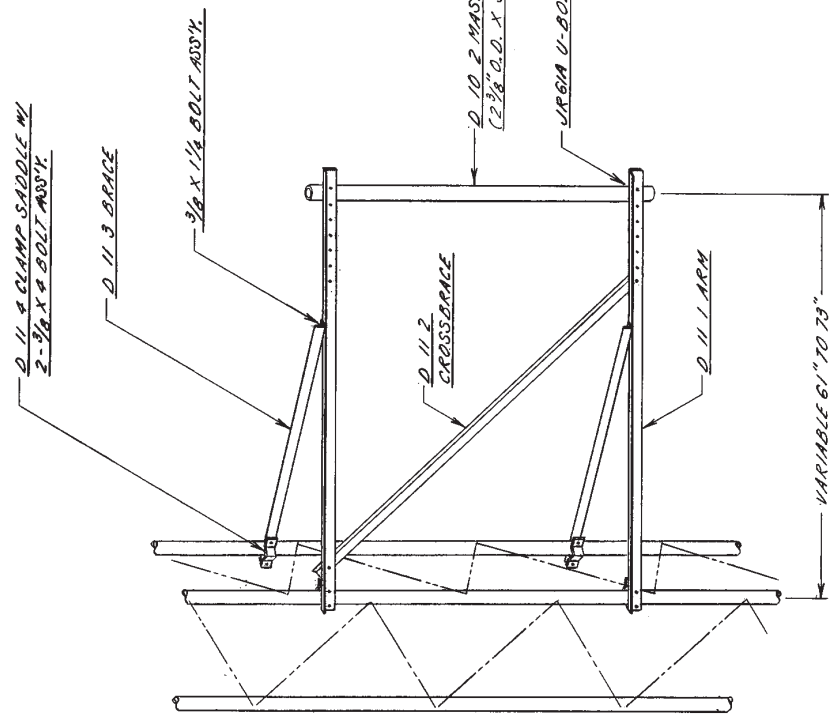
Scale: NONE  
 Drawn by: MDI  
 Checked by: JPM  
 Approved by: JLU  
 Date: 6-28-77

Customer's dimensions specified. Dimensions are given in inches.  
 Tolerances: Decimals ±, Fractions ±, Angles ±, Weight ±  
 Material: 6061-T6 ALUMINUM  
 Finish: ANODIZED  
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 File Number: C-710348R2  
 Approved by Production: PM  
 Date: 6-28-77



**BILL OF MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	2	D 11.1	ARM	C 760106
2	1	D 11.2	CROSSBRACE	C 760106
3	2	D 11.3	BRACE	C 760106
4	4	D 11.4	CLAMP SADDLE	B770214
5	4	D 10.2	MAST SUPPORT - PIPE 2 STD. X 5' LG.	
6	4	2100056A	3/8 X 1/4 BOLT ASSY.	
7	8	2100136A	3/8 X 4 BOLT ASSY.	
8	2	JR 61A	U-BOLT ASSY.	B 651029



**NOTE:**  
SIDE ARM DESIGNED TO SUPPORT A  
MAXIMUM LATERAL THRUST OF 100 LB.  
APPLIED 5 FT ABOVE TOP OF MAST  
SUPPORT PIPE.

REV.	REVISION	DATE	BY
R4	ADDED SIDE ARM NOTE	6/1/90	WEB
R3	DELETED WIND LOAD	3/8/88	FR
R2	REV. ASSY. P/W	1/22/86	GLS
R1	REV. BALANCED DESIGN WIND LOAD	10.2.78	MDI

**ROHN®**

Title  
**D1130 SIDE ARM ASSEMBLY**

Scale	NONE	Unless otherwise specified, dimensions are given in inches.
Drawn by	GLS	Decimals =
Checked by	MDL	Fractions =
Approved by	CU	Angles =
Approved by Production		Weight =
Date	11-3-76	Material
Date	11-3-76	Finish
Date	11-3-76	File Number
Date	11-3-76	Drawing Number
Date	11-3-76	

**NOTE:** SIDE ARM AND BRACE ANGLE MUST BE  
LOCATED AS CLOSE AS POSSIBLE TO  
LEG-BRACE INTERSECTION.

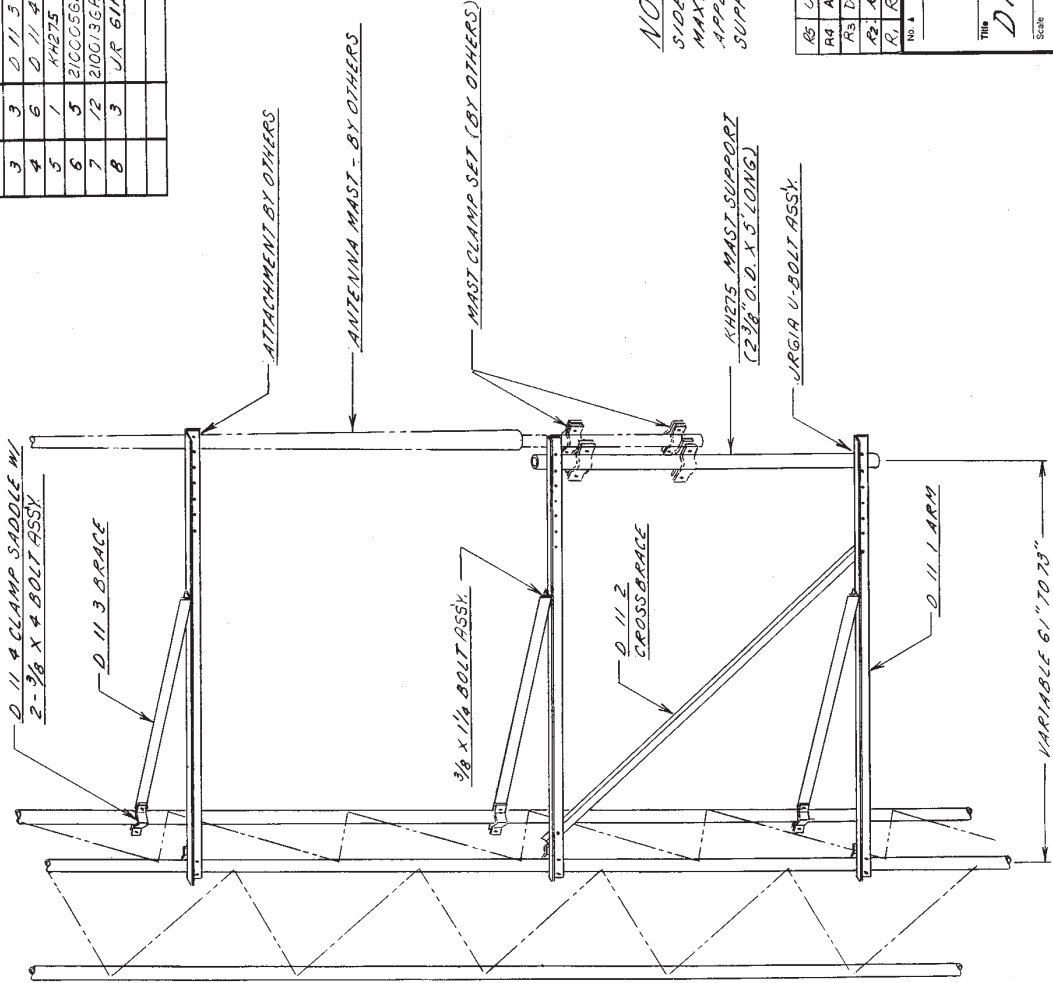
D1130 SIDE ARM





# Universal Tower Antenna Mounts

BILL OF MATERIAL			DWG. NO.
ITEM	QTY.	PART NO.	DESCRIPTION
1	3	D 11 1	ARM
2	1	D 11 2	CROSSBRACE
3	3	D 11 3	BRACE
4	6	D 11 4	CLAMP SADDLE
5	1	KH275	MAST SUPPORT PIPE STD. X 3 LG.
6	5	2100056A	3/8 X 1/4 BOLT ASSY.
7	12	2100136A	3/8 X 4 BOLT ASSY.
8	3	UR 61A	U-BOLT ASSY.



**NOTE:**  
 SIDE ARM DESIGNED TO SUPPORT A  
 MAXIMUM LATERAL THRUST OF 150 LB.  
 APPLIED 5 FT. ABOVE TOP OF MAST  
 SUPPORT PIPE.

No.	Revision	Description	Date	By
05		UPDATED DWG.	3-9-91	JWZ
04		ADDED SIDE ARM NOTE	6/11/80	WES
03		DELETED WIND LOAD	3/18/79	JAW
02		REF. ASSY. PIN.	1/22/79	GLS
01		REV. PIN & ADDED DESIGN WIND LOAD	10-2-78	INDI

**ROHN®**

THE  
**D1230 SIDE ARM ASSEMBLY**

Scale: NONE  
 Unless otherwise specified, dimensions are given in inches.

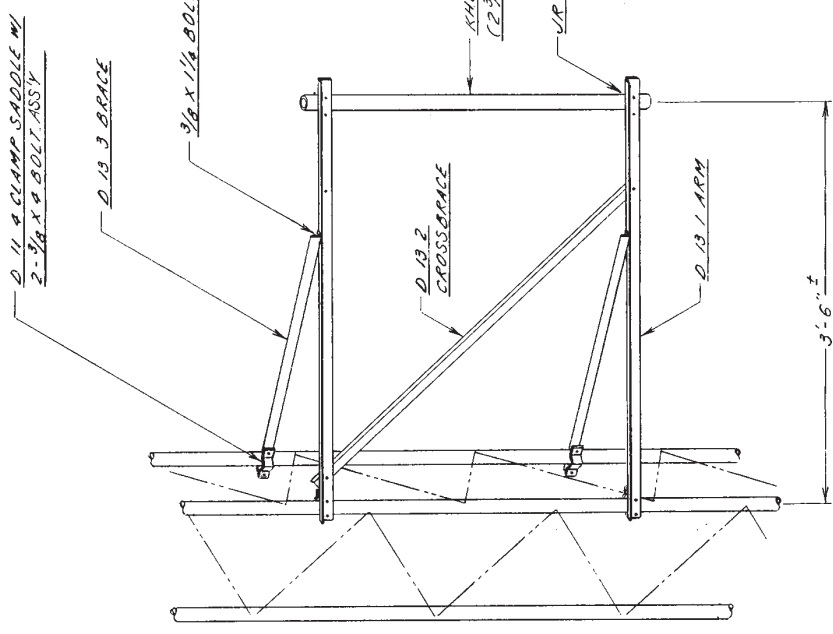
Drawn by: GLS Date: 7/23/76  
 Checked by: WES Date: 7-29-76  
 Approved by Engineering: JAW Date: 11-3-76  
 Approved by Production: JAW  
 Approved by Sales: JAW Date: 11-3-76  
 Drawing Number: C 760579 RS

**NOTE:** SIDE ARM AND BRACE ANGLE MUST BE  
 LOCATED AS CLOSE AS POSSIBLE TO  
 LEG - BRACE INTERSECTION.

VARIABLE 61" TO 73"  
**D1230 SIDE ARM**



BILL OF MATERIAL			
ITEM	QUAN.	PART NO.	DESCRIPTION
1	2	D 13 1	ARM
2	1	D 13 2	CROSSBRACE
3	2	D 13 3	BRACE
4	4	D 11 4	CLAMP SADDLE
5	1	KH275	MAST SUPPORT PIPE 2 STD. X 5 LG.
6	4	2100056A	3/8 X 1/4 BOLT ASSY C770404
7	8	2100058A	3/8 X 4 BOLT ASSY C770404
8	2	UR 614	U-BOLT ASSY 8 657028



**NOTE:**  
SIDE ARM DESIGNED TO SUPPORT A  
MAXIMUM LATERAL THRUST OF 150 L.B.  
APPLIED 5 FT. ABOVE TOP OF MAST  
SUPPORT PIPE.

No.	Revision	Description	Date	BY
R7		ADDED NOTE & UPDATED DWG.	3-19-91	WJS
R6		DELETED WIND LOAD	5-18-98	WJS
R5		REV. ASSY. PIN	11/21/99	WJS
R4		REV. PIN & ADDED DESIGN WIND LOAD	10-27-98	WJS
R3		CORRECTED REF. DIMS. TO	7/16/77	WJS
R2		REV. BOLT U-BOLT PINS	5-24-77	WJS
R1		RE-DRAWN. CHANGE BOLT LENGTHS	7/22/76	WJS

**ROHN®**

The **D1330 SIDE ARM ASSEMBLY**

Scale	NONE	Unless otherwise specified, dimensions are given in inches.
Drawn by	GLS	Drawn Date
Checked by	WJS	Checked Date
Approved by	WJS	Approved Date
Approved by Production	WJS	Approved Date
Approved by Sales	WJS	Approved Date
Drawing Number	C 620720 R7	Date
		11-3-96

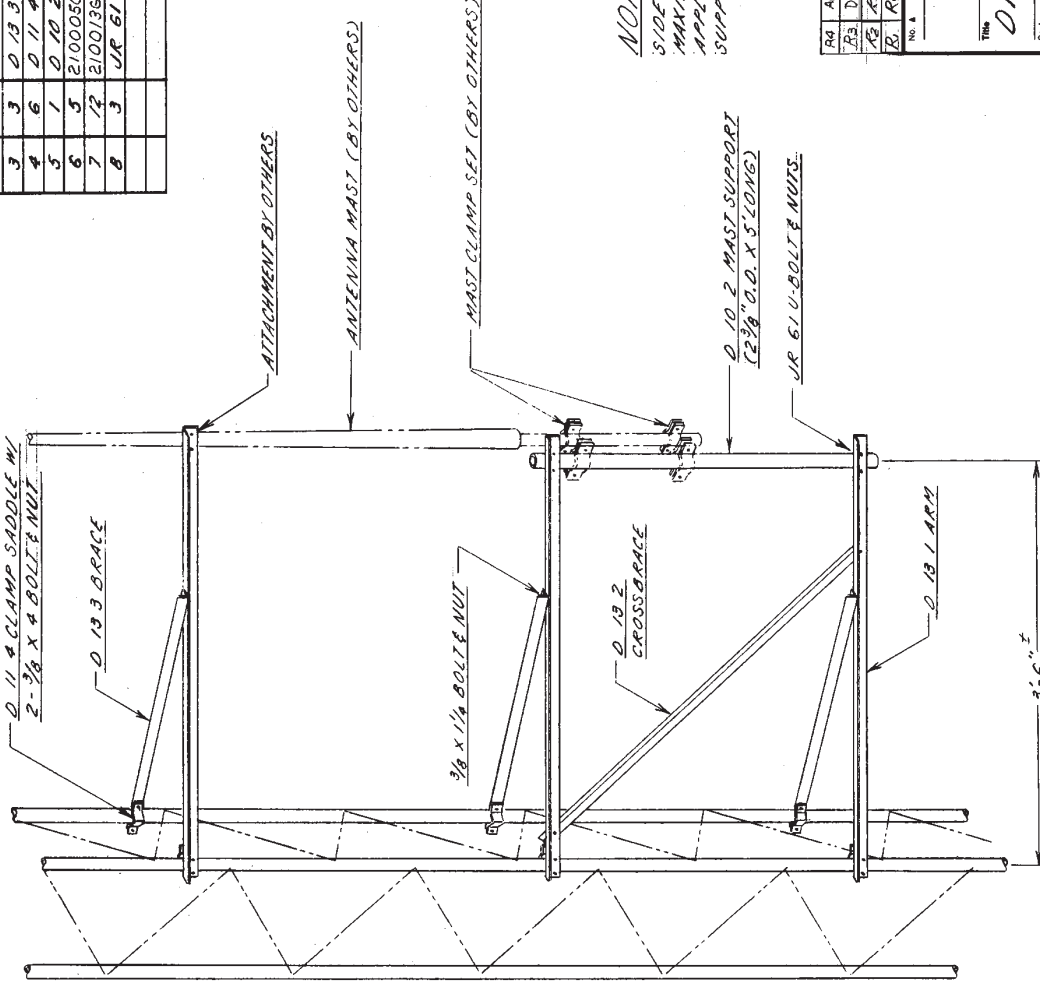
**NOTE: SIDE ARM AND BRACE ANGLE MUST BE  
LOCATED AS CLOSE AS POSSIBLE TO  
LEG - BRACE INTERSECTION.**

**D1330 SIDE ARM**



**BILL OF MATERIAL**

ITEM	QTY.	PART NO.	DESCRIPTION	ENG. NO.
1	3	D 13 1	ARM	C 760575
2	1	D 13 2	CROSSBRACE	C 760575
3	3	D 13 3	BRACE	C 760575
4	6	D 11 4	CLAMP SADDLE	
5	1	D 10 2	MAST SUPPORT - PIPE 2 5/8" X 5' LG.	
6	3	2100056A	3/8" X 1 1/4" BOLT ASS'Y.	
7	12	2100135A	3/8" X 4" BOLT ASS'Y.	
8	3	UR 61	U-BOLT & NUTS	D 65028



**NOTE:**  
SIDE ARM DESIGNED TO SUPPORT A  
MAXIMUM LATERAL THRUST OF 150 LB.  
APPLIED 5 FT. ABOVE TOP OF MAST  
SUPPORT PIPE.

No.	Revision	Description	Date	By
R4		ADDED SIDE ARM NOTE	6/11/90	MB
R3		DELETED WIND LOAD	3/10/88	MB
R2		REV. ADD'D	7/22/79	MB
R1		REV. P/N & ADDED DESIGN WIND LOAD	10-23-70	MD

**ROHN®**

**D1430 SIDE ARM ASSEMBLY**

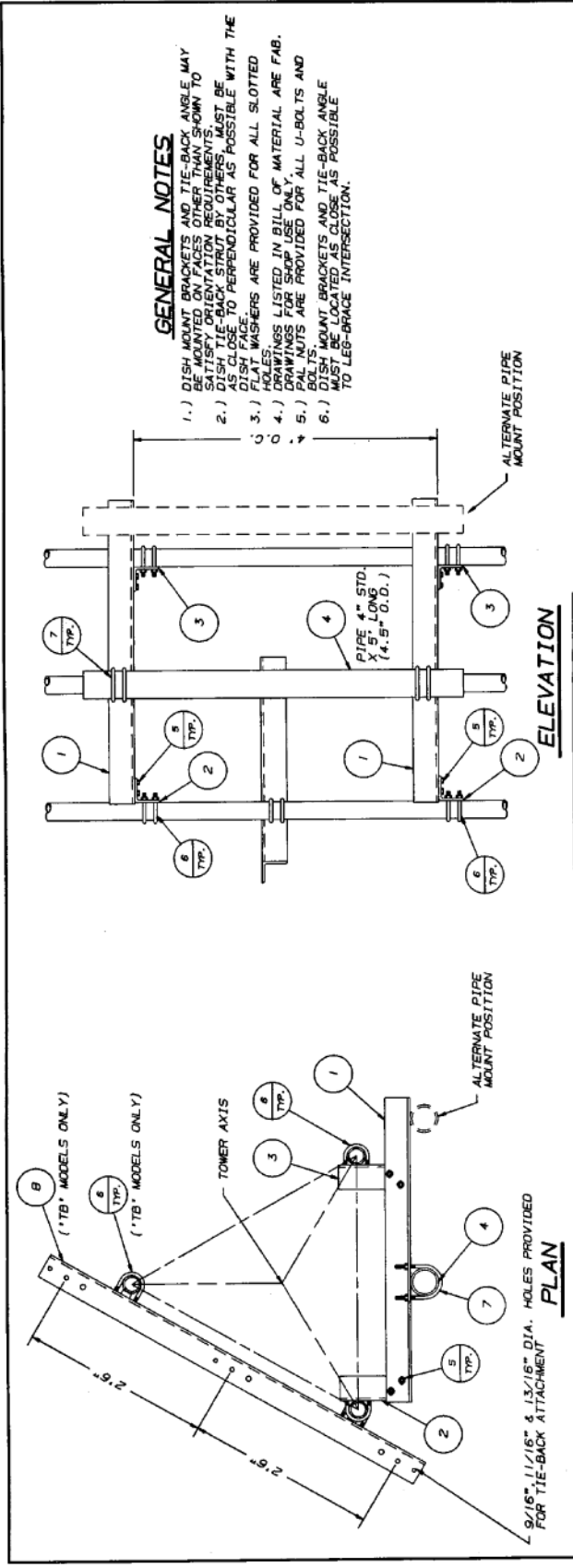
Scale: NONE  
 Unless otherwise specified, dimensions are given in inches.

Drawn by: GLS Date: 7/23/76  
 Checked by: MBL Date: 7-29-76  
 Approved by Engineering: CW Date: 11-3-76  
 Approved by Production: [Signature] Date: [Blank]

Drawing Number: C 760580 R4  
 Date: 11-5-76

**D1430 SIDE ARM**

**NOTE:** SIDE ARM AND BRACE ANGLE MUST BE  
LOCATED AS CLOSE AS POSSIBLE TO  
LEG-BRACE INTERSECTION.



**GENERAL NOTES**

- 1.) DISH MOUNT BRACKETS AND TIE-BACK ANGLE MAY BE SHOWN IN EITHER ORIENTATION TO SATISFY ORIENTATION REQUIREMENTS.
- 2.) DISH TIE-BACK STRUT BY OTHERS MUST BE AS CLOSE TO PERPENDICULAR AS POSSIBLE WITH THE TOWER.
- 3.) HOLES PROVIDED FOR ALL SLOTTED WASHERS ARE PROVIDED FOR ALL SLOTTED WASHERS.
- 4.) DRAWINGS LISTED IN BILL OF MATERIAL ARE FAB. DRAWINGS FOR SHOP USE ONLY.
- 5.) U-BOLTS ARE PROVIDED FOR ALL U-BOLTS AND BOLTS.
- 6.) DISH MOUNT BRACKETS AND TIE-BACK ANGLE MUST BE LOCATED AS CLOSE AS POSSIBLE TO LEG-BRACE INTERSECTION.

**BILL OF MATERIAL**

ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.	ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
<b>ASSEMBLY PART NO. DM834KD</b>									
1.	2	KY1556	DISH MOUNT BRACKET	B681444	1.	2	KY1556	DISH MOUNT BRACKET	B681444
2.	2	KY1557	SUPPORT BRACKET	B681445	2.	2	KY1557	SUPPORT BRACKET	B681445
3.	2	KY1558	SUPPORT BRACKET	B681445	3.	2	KY1558	SUPPORT BRACKET	B681445
4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160	4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160
5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404	5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404
6.	8	JRB3AW	U-BOLT ASSY. W/ WASHER	B651028	6.	12	JRB4AW	U-BOLT ASSY. W/ WASHER	B651028
7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028	7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028
<b>ASSEMBLY PART NO. DM834TBKD</b>									
1.	2	KY1556	DISH MOUNT BRACKET	B681444	1.	2	KY1556	DISH MOUNT BRACKET	B681444
2.	2	KY1557	SUPPORT BRACKET	B681445	2.	2	KY1557	SUPPORT BRACKET	B681445
3.	2	KY1558	SUPPORT BRACKET	B681445	3.	2	KY1558	SUPPORT BRACKET	B681445
4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160	4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160
5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404	5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404
6.	12	JRB4AW	U-BOLT ASSY. W/ WASHER	B651028	6.	8	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028
7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028	7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028
<b>ASSEMBLY PART NO. DM844KD</b>									
1.	2	KY1556	DISH MOUNT BRACKET	B681444	1.	2	KY1556	DISH MOUNT BRACKET	B681444
2.	2	KY1557	SUPPORT BRACKET	B681445	2.	2	KY1557	SUPPORT BRACKET	B681445
3.	2	KY1558	SUPPORT BRACKET	B681445	3.	2	KY1558	SUPPORT BRACKET	B681445
4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160	4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160
5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404	5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404
6.	12	JRB4AW	U-BOLT ASSY. W/ WASHER	B651028	6.	12	JRB4AW	U-BOLT ASSY. W/ WASHER	B651028
7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028	7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028
<b>ASSEMBLY PART NO. DM854TBKD</b>									
1.	2	KY1556	DISH MOUNT BRACKET	B681444	1.	2	KY1556	DISH MOUNT BRACKET	B681444
2.	2	KY1557	SUPPORT BRACKET	B681445	2.	2	KY1557	SUPPORT BRACKET	B681445
3.	2	KY1558	SUPPORT BRACKET	B681445	3.	2	KY1558	SUPPORT BRACKET	B681445
4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160	4.	1	KH279	MOUNTING PIPE 4"STD. X 5'	B770160
5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404	5.	8	2100196AW	1/2X1-3/4 BOLT ASSY. W/ WASHER	C770404
6.	12	JRB4AW	U-BOLT ASSY. W/ WASHER	B651028	6.	12	JRB4AW	U-BOLT ASSY. W/ WASHER	B651028
7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028	7.	4	JRB5AW	U-BOLT ASSY. W/ WASHER	B651028

REVISION AND REVISED TO KNOCK DOWN

No. 1 Revision Description

DATE: 10-4-76 BY: KTL

DATE: 10-19-76 BY: CW

DATE: 10-29-76 BY: DR

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Serial: NONE

By: MDU

Date: 10-4-76

Checked: MDU

App. Eng.: CW

Drawn: MDU

App. Sci.: DR

Scale: NONE

Sheet: 1 of 1

Project: 75

Job: R O H N

Title: KNOCK-DOWN DISH MOUNT ASSEMBLY FOR MODEL 60 TOWERS

Drawing No.: C760776R2



## Pipe - Hot Dip Galvanized

All pipe is hot dip galvanized inside and outside.

### Pipe, Standard (Schedule 40)

Description		Part	Weight
I.D.	Length	Number	
2"	5'	KH275	20
2"	6'	KH1256	24
2"	6'8"	KH281	26
2"	7'	KH1617	27
2"	8'	KY863	30
2"	9'	VX1695	35
2"	10'	KH287	39
2"	11'	KH4476	43
2"	12'	KH365	47
2"	13'4"	KH293	52
2"	14'	KH2805	55
2"	15'	KH299	58
2"	16'	KH2806	62
2"	17'	KH3545	66
2"	18'	KH2807	70
2.5"	5'	KH276	31
2.5"	6'	KH2576	37
2.5"	6'8"	KH282	41
2.5"	7'	KH2582	43
2.5"	8'	KH2541	50
2.5"	10'	KH288	62
2.5"	12'	KH366	74
2.5"	13'4"	KH294	82
2.5"	14'	KH2802	86
2.5"	15'	KH300	92
2.5"	16'	KH2803	99
2.5"	18'	KH2804	111
2.5"	20'	KH4813	123
4"	5'	KH279	58
4"	6'	KH4393	65
4"	6'8"	KH285	77
4"	7'	KH2653	80
4"	8'	KH2447	92
4"	10'	KH291	115
4"	12'	KH369	138
4"	13'4"	KH297	153
4"	14'	KH2509	161
4"	15'	Kh303	172

### Pipe, Extra Heavy (Schedule 80)

Description		Part	Weight
I.D.	Length	Number	
2"	5'	KH4400	26
2"	6'	KH1194	36
2"	6'8"	KH3791	38
2"	7'	KH2229	43
2.5"	5'	KH1200	41
2.5"	6'8"	KH1201	55
2.5"	8'	KH2987	65
2.5"	10'	KH1202	82
2.5"	12'	KH1203	98
2.5"	13'4"	KH4390	109
2.5"	14'	KH5768	114
2.5"	15'	KH4713	122
4"	5'	KH1221	80
4"	6'8"	KH1222	106
4"	8'	KH1977	127
4"	10'	KH1223	159
4"	12'	KH1224	191
4"	13'4"	KH1225	212
4"	15'	KH1226	239
4"	16'	KH3614	254
4"	18'	KH5627	286



# NON PENETRATING ROOF MOUNTS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY



## NON-PENETRATING MOUNTS

### FOR TODAY'S COMMUNICATION NEEDS

Not only can ROHN provide you with towers and poles to meet the stringent demands of today's communication industry, we can also provide non-penetrating roof mounts needed to complete the project. ROHN offers many different models of non-pen mounts suitable for antennas up to 3 meters in diameter

### ROHN QUALITY

ROHN non-penetrating mounts are all designed and engineered to handle the job of getting above ground interference. Each mount has been researched and developed to serve a specific purpose. With professionally engineered construction, you can be assured you're getting a virtually maintenance free product built to the highest standards. And because our mounts are Hot Dip Galvanized, our mounts won't rust.

### FEATURES

ROHN's Non-Penetrating Roof Mounts are designed for PCS, Wireless Cable, DBS, and UHF/VHF reception, etc. Features include:

- No penetration on roof surface
- Galvanized for corrosion protection
- Designed for concrete block ballast
- Varied mast heights are available
- Varied mast pipe O.D.'s are available
- Goes together quickly
- Minimum of bolted connections
- Engineering ballast tables available
- Optional roof pads or mats are available
- Some models are UPS shippable



Blank





# Non Penetrating Roof Mounts

25G BRM ALLOWABLE ANTENNA AREAS						
EFFECTIVE PROJECTED AREA (EPA) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs ONE SECTION (MPH) h = 12.4 FT	Vs TWO SECTIONS (MPH) h = 22.4 FT	Vmax AT CENTROID OF PROJECTED AREA (MPH)	
					CENTROID OF ANTENNA EPA	
					h = 12.4 ft (1 sect)	h = 22.4 ft (2 sect)
2	500	5.0	131	96	111	65
	750	7.5	160	117	136	80
	1000	10.0	185	135	157	92
	1250	12.5	207	151	176	103
	1500	15.0	227	165	190	111
	1750	17.5	245	179	201	118
	2000	20.0	250	191	211	124
	2250	22.5	250	203	221	130
	2500	25.0	250	214	231	135
	2750	27.5	250	224	240	140
3000	30.0	250	234	244	143	
4	500	5.0	113	88	92	57
	750	7.5	138	107	112	70
	1000	10.0	159	124	130	81
	1250	12.5	178	139	145	91
	1500	15.0	195	152	157	98
	1750	17.5	211	164	166	104
	2000	20.0	225	175	174	109
	2250	22.5	239	186	182	114
	2500	25.0	250	196	190	119
	2750	27.5	250	206	198	124
3000	30.0	250	215	201	126	
6	500	5.0	100	82	80	52
	750	7.5	123	100	98	63
	1000	10.0	142	115	113	73
	1250	12.5	159	129	126	82
	1500	15.0	174	141	136	88
	1750	17.5	188	152	144	94
	2000	20.0	201	163	152	98
	2250	22.5	213	173	159	103
	2500	25.0	224	182	166	107
	2750	27.5	235	191	172	112
3000	30.0	246	200	175	113	

NO:                   ↑REV. DESCRIPTION:   ↑DATE:           ↑REV.BY:           ↑CHKD. BY:       ↑APPD. BY:

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DRAWN BY: MSJ	DATE: 8/29/99
CHECKED BY: HA	DATE: 8/30/99
APP'D ENG: MSJ	DATE: 8/31/99
APP'D SALES:	DATE:
FILE NUMBER: 41835DB	
DRAWING NUMBER:	A992094-1 OF 9

**ROHN Industries, Inc.**  
**25G BRM ALLOWABLE**  
**ANTENNA AREAS**



25G BRM ALLOWABLE ANTENNA AREAS						
EFFECTIVE PROJECTED AREA (EPA) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs ONE SECTION (MPH) h = 12.4 FT	Vs TWO SECTIONS (MPH) h = 22.4 FT	Vmax AT CENTROID OF PROJECTED AREA (MPH)	
					CENTROID OF ANTENNA EPA	
					h = 12.4 ft (1 sect)	h = 22.4 ft (2 sect)
8	500	5.0	91	76	72	48
	750	7.5	112	94	88	58
	1000	10.0	129	108	101	67
	1250	12.5	144	121	113	75
	1500	15.0	158	132	122	81
	1750	17.5	171	143	129	86
	2000	20.0	183	153	136	90
	2250	22.5	194	162	142	95
	2500	25.0	204	171	149	99
	2750	27.5	214	179	154	103
	3000	30.0	224	187	157	104
10	500	5.0	84	72	66	44
	750	7.5	103	89	80	54
	1000	10.0	119	102	93	63
	1250	12.5	133	114	104	70
	1500	15.0	146	125	112	76
	1750	17.5	158	135	118	80
	2000	20.0	169	145	124	84
	2250	22.5	179	153	130	88
	2500	25.0	189	162	136	92
	2750	27.5	198	169	141	95
	3000	30.0	207	177	144	97
12	500	5.0	79	69	61	42
	750	7.5	97	84	74	51
	1000	10.0	112	97	86	59
	1250	12.5	125	109	96	66
	1500	15.0	137	119	104	71
	1750	17.5	148	128	110	75
	2000	20.0	158	137	115	79
	2250	22.5	167	146	121	83
	2500	25.0	176	154	126	86
	2750	27.5	185	161	131	90
	3000	30.0	193	168	133	91

NO:	↑REV. DESCRIPTION:	↑DATE:	↑REV. BY:	↑CHKD. BY:	↑APPD. BY:
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DRAWN BY: MSJ	DATE: 8/28/99	<b>ROHN Industries, Inc.</b>  <b>25G BRM ALLOWABLE</b>  <b>ANTENNA AREAS</b>
CHECKED BY: HA	DATE: 8/30/99	
APP'D ENG: MSJ	DATE: 8/31/99	
APP'D SALES:	DATE:	
FILE NUMBER: 41835DB		
DRAWING NUMBER:	A992094-2 OF 9	





# Non Penetrating Roof Mounts

25G BRM ALLOWABLE ANTENNA AREAS						
EFFECTIVE PROJECTED AREA (EPA) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs ONE SECTION (MPH) h = 12.4 FT	Vs TWO SECTIONS (MPH) h = 22.4 FT	Vmax AT CENTROID OF PROJECTED AREA (MPH)	
					CENTROID OF ANTENNA EPA	
					h = 12.4 ft (1 sect)	h = 22.4 ft (2 sect)
14	500	5.0	74	66	57	39
	750	7.5	91	80	70	48
	1000	10.0	105	93	80	56
	1250	12.5	117	104	90	62
	1500	15.0	129	114	97	67
	1750	17.5	139	123	103	71
	2000	20.0	149	131	108	75
	2250	22.5	158	139	113	78
	2500	25.0	166	147	118	81
	2750	27.5	174	154	123	85
	3000	30.0	182	161	125	86
16	500	5.0	70	63	54	37
	750	7.5	86	77	66	46
	1000	10.0	100	89	76	53
	1250	12.5	111	99	85	59
	1500	15.0	122	109	92	64
	1750	17.5	132	118	97	67
	2000	20.0	141	126	102	71
	2250	22.5	149	133	107	74
	2500	25.0	157	141	111	77
	2750	27.5	165	147	116	80
	3000	30.0	172	154	118	82
18	500	5.0	67	60	51	36
	750	7.5	82	74	62	44
	1000	10.0	95	86	72	50
	1250	12.5	106	96	81	56
	1500	15.0	116	105	87	61
	1750	17.5	126	113	92	64
	2000	20.0	134	121	97	68
	2250	22.5	142	128	101	71
	2500	25.0	150	135	106	74
	2750	27.5	157	142	110	77
	3000	30.0	164	148	112	78
NO:                    ↑REV. DESCRIPTION:    ↑DATE:                    ↑REV. BY:                    ↑CHKD. BY:                    ↑APPD. BY:						
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DRAWN BY: MSJ			DATE: 8/28/99		<b>ROHN Industries, Inc.</b>  <b>25G BRM ALLOWABLE</b>  <b>ANTENNA AREAS</b>	
CHECKED BY: HA			DATE: 8/30/99			
APP'D ENG: MSJ			DATE: 8/31/99			
APP'D SALES:			DATE:			
FILE NUMBER: 41835DB						
DRAWING NUMBER:			A992094-3 OF 9			







# Non Penetrating Roof Mounts

## GENERAL NOTES

- (1) IT IS THE PURCHASER'S RESPONSIBILITY TO VERIFY THAT THE INSTALLATION OF THIS ROOF MATERIAL AND BUILDING STRUCTURE IS ABLE TO WITHSTAND ALL LOADS IMPOSED BY HIS ANTENNA SYSTEM.
  - (2) ALL ANTENNA INSTALLATIONS SHOULD BE GROUNDED BY INSTALLER TO MEET ALL APPLICABLE CODES.
  - (3) REFER TO DRAWING ABB0397, 1-5 FOR SAGM ENGINEERING DATA.
  - (4) TIGHTEN ALL NUTS AND WASHERS TO THE TORQUE SPECIFIED IN THE MAXIMUM INTERVALS.
  - (5) ALL METAL PARTS ARE HOT DIP GALVANIZED AFTER FABRICATION.
  - (6) SEE DRAWING ABB0541 FOR ROHN'S OPTIONAL ROOF PADS.
  - (7) PART NUMBER OF ANTENNA GRAVITY MOUNT MAY VARY WITH TYPE OF PACKAGING.
  - (8) (3990 LBS. ULTIMATE STRENGTH) WITH SIX CLAMPS TO SECURE MOUNT AND/OR BALLAST ARE AVAILABLE AS AN OPTION. USE THREE CABLE CLAMPS AT EACH END CONNECTION WITH THE U-BOLT ON THE DEAD END OF CABLE.
- SAFETY CABLE LENGTH      PART NUMBER  
 50 FT.                      SCK50  
 100 FT.                     SCK100  
 150 FT.                     SCK150

## "AAGM" MATERIALS

EACH MOUNT ASSEMBLY CONTAINS :

- (6) FY103 - BASE BRACE ANGLE
- (6) FY104 - LONG BASE ANGLE
- (6) FY105 - SHORT BASE ANGLE
- (1) FY114 - BRACE KIT CONTAINING:
  - (62) 240085 (1/2" X 1-1/2" HEX NUT)
  - (31) 210224S (1/2" X 1-1/2" BOLT)
  - (24) FY52 - BRACE CLIP

## MAST SPECIFICATIONS

AAGM NO	PART #	DESCRIPTION
AAGM5	FY575	3" X SCHEDULE 40 (3-1/2" O.D.) X 50" PIPE
AAGM6	FY576	3-1/2" X SCHEDULE 40 (4" O.D.) X 50" PIPE
AAGM7	FY577	4" X SCHEDULE 40 (4-1/2" O.D.) X 50" PIPE
AAGM8	FY578	5" X SCHEDULE 40 (5-9/16" O.D.) X 50" PIPE
AAGM9	FY579	6" X SCHEDULE 40 (6-5/8" O.D.) X 50" PIPE
AAGM550	FY596	6" X SCHEDULE 40 (6-5/8" O.D.) X 56" PIPE

\* HOG - HOT DIP GALVANIZED AFTER FABRICATION

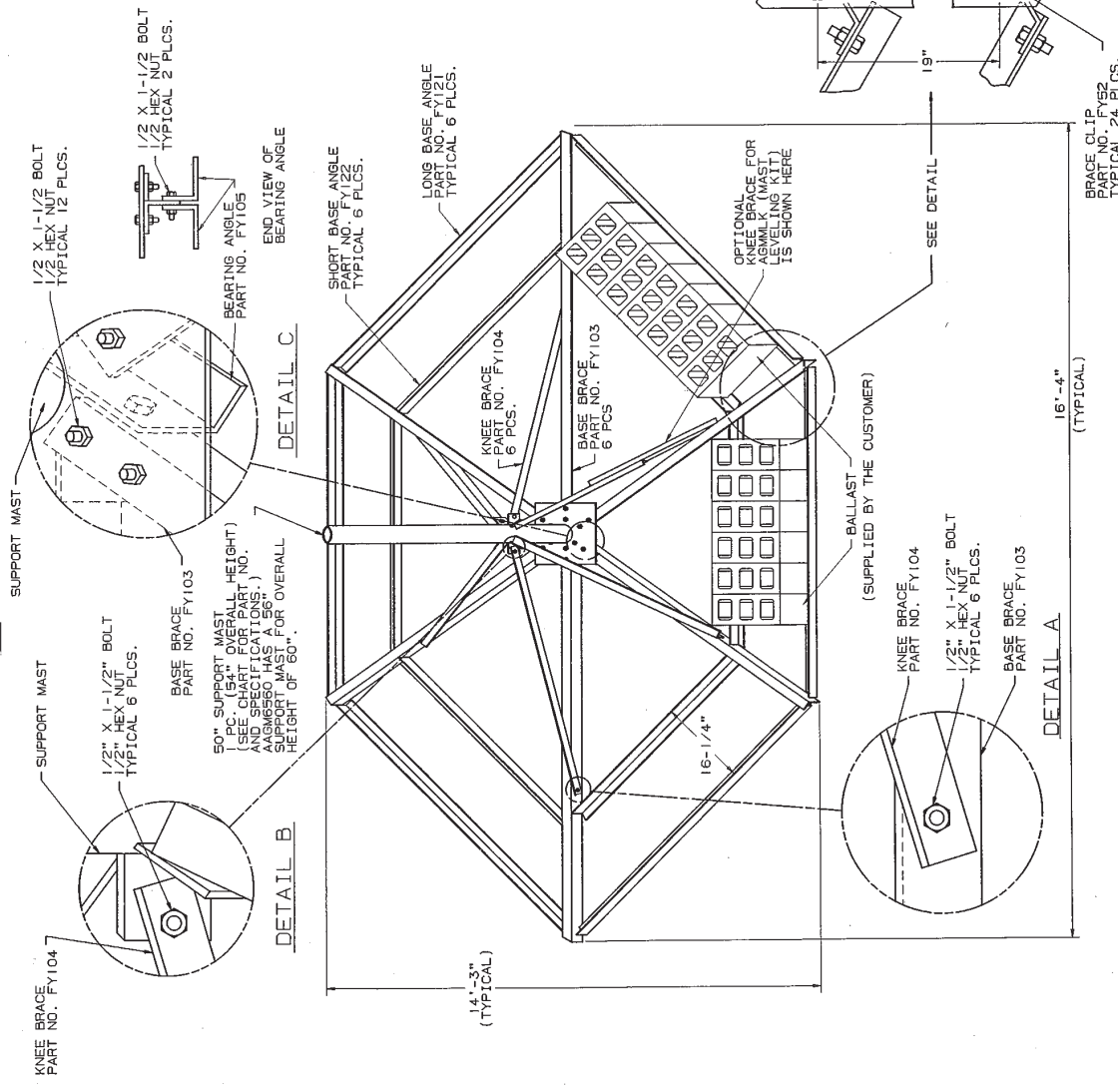
## "AGMMLK" MATERIALS

- (12) FY145 - ADJUSTABLE BRACE ANGLE
- (1) FY5147 - HARDWARE KIT CONTAINING
  - (12) 210224S (1/2" X 1-1/2" BOLT)
  - (2) 240085 (1/2" HEX NUT)
  - (24) 2500356 (1/2" X 1/2" FLAT WASHER)

# ROHN

TITLE: ANGLE ANTENNA GRAVITY MOUNT - AAGM

DATE: 9-24-88  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]  
 TITLE: [Name]  
 DRAWING NUMBER: E72465DF  
 DATE: 9-12-88  
 Dwg. No.: D880026R2





Form No. 95-2806M

**ANGLE ANTENNA GRAVITY MOUNT**  
**Ballast Requirements Chart**

Antenna Diameter	Ballast (pounds)	Zero Velocity Roof Load	Max. V (MPH)	Wind Speeds Resulting in Sliding Coefficient of Friction = .50		
				EL = 0°	EL = 20°	EL = 40°
4 Ft. (1.2M)	1000	6	135	91	93	101
	1500	9	164	111	114	123
	2000	12	187	128	132	142
	2500	15	207	143	147	159
	3000	18	225	157	161	174
	3500	21	240	170	174	188
	4000	24	250	181	186	201
	5000	30	250	203	208	225
6000	36	250	222	228	246	
6 Ft. (1.8M)	1000	6	90	60	62	67
	1500	9	109	74	76	82
	2000	12	125	85	88	95
	2500	15	138	96	98	106
	3000	18	150	105	108	116
	3500	21	160	113	116	125
	4000	24	165	121	124	134
	5000	30	165	135	139	150
6000	36	165	148	152	164	
8 Ft. (2.4M)	1000	6	68	45	47	50
	1500	9	82	56	57	62
	2000	12	94	64	66	71
	2500	15	104	72	74	79
	3000	18	112	79	81	87
	3500	21	120	85	87	94
	4000	24	125	91	93	101
	5000	30	125	101	104	112
6000	36	125	111	114	123	
10 Ft. (3.0M)	1000	6	46	31	33	40
	1500	9	56	38	40	49
	2000	12	64	44	46	57
	2500	15	71	49	52	64
	3000	18	77	54	57	70
	3500	21	82	58	61	75
	4000	24	85	62	65	80
	5000	30	85	69	73	85
6000	36	85	76	80	85	

Information stated herein is based upon Engineering Drawing A880397R1 to be used as a guide in calculating the required ballast amounts for the AAGM Antenna Gravity Mount series. This information is the property of UNR-ROHN. It is not to be reproduced, copied or traced in whole or in part without our written consent.



## Non Penetrating Roof Mounts

1. Ballast requirements are provided to assist consumers in determining the applicability of the AAGM for an antenna installation. Refer to UNR-ROHN Engineering Report 870101 dated July 28, 1988 for test data used to generate the ballast requirements indicated. The ballast data should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
2. Ballast requirements are based on typical ANSI/EIA-222-D paraboloid antennas supported 12 inches from the vertex of the antenna on a 54 inch long mounting pipe on a flat supporting surface. Specific antenna types may require more stringent wind loads and ballast requirements and must be investigated for each installation. The load carrying requirements of the supporting surface, the mast, the antenna and the antenna's connection to the mast must also be investigated for each installation.
3. The ballast weights indicated are net ballast weights, and must be uniformly distributed over all panels. The effective weight of the gravity mount and antenna may be deducted from the ballast weights indicated to determine ballast pan weight requirements. The effective weight of the gravity mount and antenna may be calculated by subtracting the uplift component of wind load from the actual weight of the gravity mount and antenna. (Worst case uplift wind load component =  $.000910 (A) (V)^2$  at an  $80^\circ$  elevation angle).
4. The zero velocity roof loads shown are equal to the ballast weights indicated divided by the total area enclosed by the perimeters of the gravity mounts (i.e. an area greater than the ballast pan contact area). If effective gravity mount and antenna weights are considered when determining ballast pan weight requirements, the zero velocity roof loads will be higher than those indicated due to the absence of the uplift component of wind load. The zero velocity roof load, in all cases, equals the weight of the gravity mount, antenna and ballast weight divided by the total area enclosed by the perimeter of the gravity mount (166 sq. ft.). Total roof loads under wind loading conditions would include wind forces and moments, weight of ballast, gravity mount, antenna and roof pads. (Worst case download component =  $.003374 (A) (V)^2$  at a  $60^\circ$  elevation angle).
5. Maximum wind velocities are based on a minimum 1.5 factor of safety against structural failure and overturning for the worst case antenna elevation angle. The wind speeds which may occur at an installation must be determined on an individual site basis.



6. The tabulated wind speeds resulting in sliding are based on a factor of safety (F.S.) equal to 1.0 and a coefficient of friction ( $\mu$ ) equal to .50. Wind speeds are given for 0, 20, and 40 degree antenna elevation angles. The .50 coefficient of friction value was determined from full-scale load tests using wet UNR-ROHN roof pads on wet troweled finished concrete. The appropriate coefficient of friction to determine wind speeds resulting in sliding must be determined on an individual site basis.

Wind speeds resulting in sliding for other factors of safety or for other coefficients of friction may be found by multiplying the tabulated wind speeds resulting in sliding by the following factor:

$\mu$  .5 (F.S.)
------------------------

$\mu$  = Coefficient of Friction  
 F.S. = Factor of Safety

7. UNR-ROHN recommends that ballast material always be placed prior to mounting the antenna and that roof pads and gravity mount be secured to prevent hazards from occurring under extreme wind loading conditions.
8. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast rails and under the mast pipe. When roof pads are utilized, the minimum coefficient of friction between ballast rails and roof pad or between the roof pads and supporting surface must be used to calculate the wind speeds resulting in sliding.
9. When adhesives, sealants, or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to ensure that damage to the supporting surface will not occur upon wind loading.
10. Adhesives and sealants must be capable of resisting shear, otherwise they may act as a lubricant and decrease the effective coefficient of friction between the ballast rails and the supporting surface. Windward ballast rails may partially lift off at wind speeds well below the maximum wind speeds indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.



# Non Penetrating Roof Mounts

MAST SPECIFICATIONS		
BRM4 NO.	WT. LBS.	PART NO.
BRM425	112.9	KY1580
BRM430	118.9	KY1582
BRM435	124	KY1584
BRM440	128.4	KY1586
BRM445	133.1	KY1588
BRM455	144	KY1600

BILL OF MATERIAL		
ITEM QUAN.	PART NO.	DESCRIPTION
1	SEE CHART	ANTENNA MAST SUPPORT
2	KY1602	BASE DIAGONAL
3	KY1601	BASE ANGLE CENTER
4	KY1603	BASE GIRT INNER
5	KY1605	BASE GIRT OUTER
6	KY1604	KNEE BRACE ANGLE
7	KY1577A	HARDWARE KIT

BILL OF MATERIAL		
ITEM QUAN.	PART NO.	DESCRIPTION
8	KY1576	BASE CLIPS
9	2100796	BOLT 3/8 X 1
10	230024	NUT 3/8 DIA.

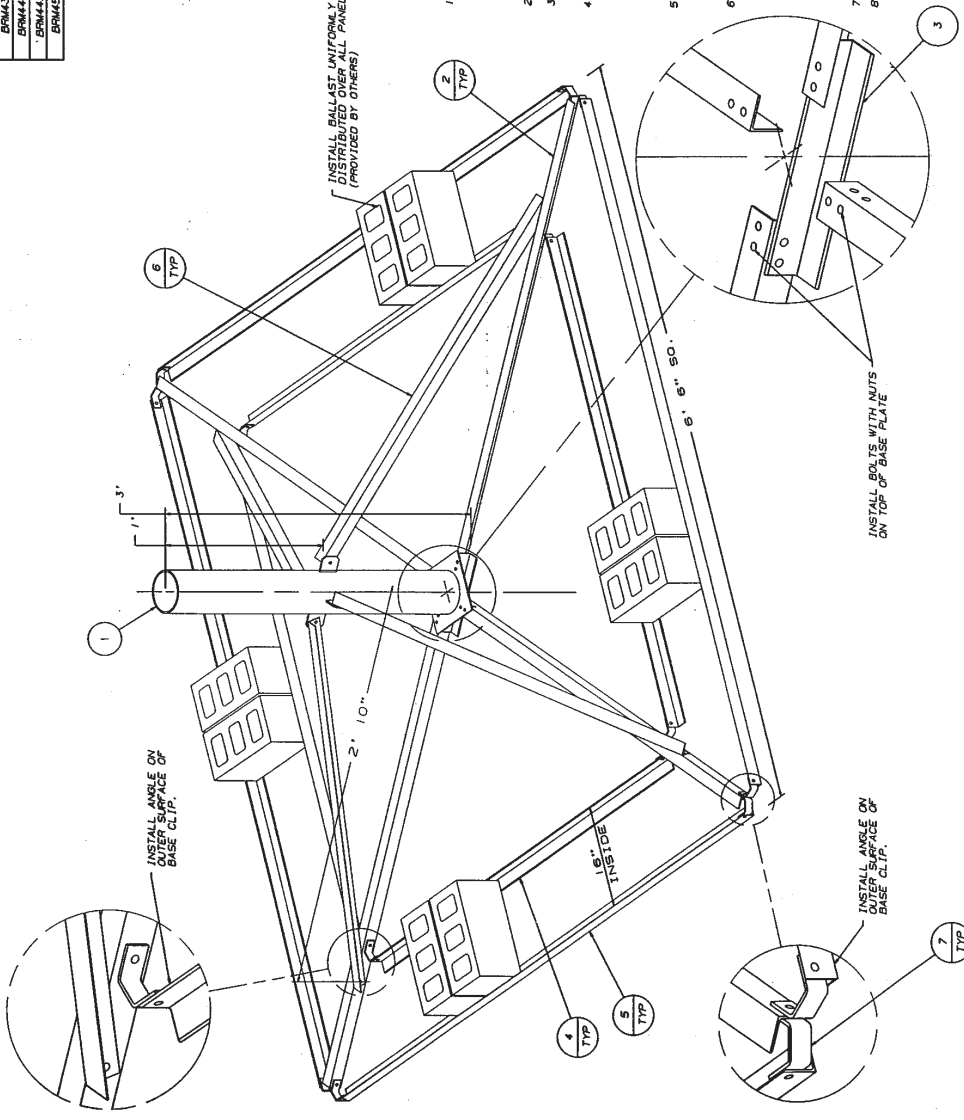
NOTE: ALL PARTS HOT DIP GALVANIZED.

### GENERAL NOTES

- PRIOR TO INSTALLATION VERIFY THAT THE INSTALLATION, ROOF MATERIAL AND SUPPORTING STRUCTURE HAVE BEEN INVESTIGATED AND FOUND CAPABLE OF SUPPORTING THE WEIGHT OF THE MAST AND ANTENNA. PROVIDE ANCHORS AND/OR SAFETY CABLES, IF REQUIRED, HAVE BEEN FOUND TO BE ADEQUATE TO RESIST ALL THE LOADS IMPOSED WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED TO MEET APPLICABLE CODES.
- BEFORE THE MAST MATERIAL IS SET INTO THE HOLES, THE HOLES MUST BE DRAWING AS SHOWN FOR BALLAST AND ALLOWABLE ANTENNA AREAS INFORMATION.
- ROHN RECOMMENDS THAT BALLAST MATERIAL ALWAYS BE PLACED PRIOR TO INSTALLATION OF THE MAST AND ANTENNA. THIS IS TO PREVENT HAZARDS FROM OCCURRING UNDER EXTREME WIND LOADING CONDITIONS. PRECAUTIONS SHOULD ALWAYS BE TAKEN TO PREVENT THE MAST FROM MOVING OR SWAYING. BALLAST MATERIAL IS FULLY SUPPORTED BY THE BALLAST TO INSURE THAT BALLAST MATERIAL IS FULLY SUPPORTED BY THE BALLAST (OVERTURNING AND SWAYING).
- WHEN ADHESIVES, SEALANTS OR PADS ARE UTILIZED, THEY MUST BE COMPATIBLE WITH THE SUPPORTING SURFACE. THEY MUST ALSO BE DURABLE AND WITHSTAND THE WEATHER. THE SUPPORTING SURFACE WILL NOT OCCUR UPON WIND LOADING.
- SAFETY CABLE KITS CONSISTING OF A 3/16 EMS SAFETY CABLE (5000 LB. BREAK STRENGTH) AND THREE (3) SAFETY CABLE CLAMPS AT EACH END CONNECTION WITH THE U-BOLT ON THE DEAD END OF THE CABLE.

SAFETY CABLE LENGTH	
50 FT	SCN50
100 FT	SCN100
150 FT	SCN150

- ROOF PADS AND MATS ARE AVAILABLE AS AN OPTION.
- HIGH STRENGTH BOLTS ARE PROVIDED. NUT LOCKING IS DEPENDENT ON MOUNT, ANTENNA AND TIGHTNESS OF NUTS AT SIX MONTH MAXIMUM INTERVALS.



NOTE: ANTENNA MAST OMITTED FROM THIS VIEW FOR CLARITY.

Rohm Division Identification		DATE	BY
FD	FDN 250008	WAS 250216	WAS
ROHN Division Identification		DATE	BY
FD	FDN 250008	WAS 250216	WAS
ROHN Division Identification		DATE	BY
FD	FDN 250008	WAS 250216	WAS

Part No.	Part Name	Rev.	Iss. Date
BRM4	Ballast Roof Mount	1	12/1/99

Author	Drawn	Checked	Appr.
WAS	WAS	WAS	WAS

Part No.	Part Name	Rev.	Iss. Date
BRM4	Ballast Roof Mount	1	12/1/99

Part No.	Part Name	Rev.	Iss. Date
BRM4	Ballast Roof Mount	1	12/1/99

Part No.	Part Name	Rev.	Iss. Date
BRM4	Ballast Roof Mount	1	12/1/99

Part No.	Part Name	Rev.	Iss. Date
BRM4	Ballast Roof Mount	1	12/1/99

Part No.	Part Name	Rev.	Iss. Date
BRM4	Ballast Roof Mount	1	12/1/99





MAST SPECIFICATIONS		
BRM4-10 NO.	WT. LBS.	PART NO. DESCRIPTION
BRM42510	140	KY2061 BRM4-10 WITH 2 STD. PIPE(2-3/8 OD)
BRM43510	180-2	KY2063 BRM4-10 WITH 3 STD. PIPE(3-1/2 OD)
BRM44510	213.2	KY2065 BRM4-10 WITH 4 STD. PIPE(4-1/2 OD)

BRM4-10 BILL OF MATERIAL		
ITEM QUAN.	PART NO.	DESCRIPTION DWG. NO.
1	SEE CHART	ANTENNA MAST SUPPORT CS50849
2	KY1602	BASE DIAGONAL B881269
3	KY1601	BASE ANGLE CENTER B881268
4	KY1603	BASE GIRT INNER B881270
5	KY1605	BASE GIRT OUTER B881271
6	KY1604	KNEE BRACE ANGLE B881267
7	KY1577A	HARDWARE KIT N/A

KY1577A HARDWARE KIT BILL OF MATERIAL		
ITEM QUAN.	PART NO.	DESCRIPTION DWG. NO.
8	KY1576	BASE CLIPS B881269
9	44	2100799 BOLT 3/8 X 1 N/A
10	44	230024 NUT 3/8 D.I.A. N/A

NOTE: ALL PARTS HOT DIP GALVANIZED

### GENERAL NOTES

- PRIOR TO INSTALLATION VERIFY THAT THE INSTALLATION, ROOF MATERIAL AND SUPPORTING STRUCTURE ARE CAPABLE OF WITHSTANDING ALL LOADS IMPOSED BY THE PROPOSED ANTENNA SYSTEM. CONFIRM THAT THE SUPPORTING SURFACES, ANCHORS AND/OR SAFETY CABLES, FROM THE ANTENNA SYSTEM AND THAT THE INSTALLATION WILL BE IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED TO MEET APPLICABLE REQUIREMENTS.
- APPROPRIATE BALLAST MATERIAL MUST BE DETERMINED AND PROVIDED BY OTHERS TO PREVENT OVERTURNING AND SLIDING AT THE DESIGN WIND LOAD. SEE DRAWING ANNOTATION FOR BALLAST AND ALLOWABLE ANTENNA AREA INFORMATION.
- TO MAINTAIN THE ANTENNA AND THAT ROCK PADS AND MOATS BE INSTALLED TO PREVENT HAZARDS FROM OCCURRING UNDER EXTREME WIND LOADING. INDEPENDENT REMOVAL OF BALLAST MATERIAL AFTER INSTALLATION AND SUPPORT ANCHORS (REQUIRED FOR BALLAST) TO BE EFFECTIVE IN RESISTING OVERTURNING AND SLIDING.
- WHEN ADHESIVES, SEALANTS OR PADS ARE UTILIZED, THEY MUST BE APPLIED TO THE ANTENNA AND HAVE ADEQUATE STRENGTH. PRECAUTIONS SHOULD ALSO BE TAKEN TO PREVENT DAMAGE TO THE SUPPORTING SURFACE WILL NOT OCCUR.
- SAFETY CABLE KITS CONSISTING OF A 3/16 IN. SAFETY CABLE (3800 LBS. ULTIMATE STRENGTH) WITH SIX CLAMPS TO SECURE MOUNT AND/OR BALLAST WITH THE USE OF AN OPTICAL END OF THE CABLE CLAMPS AT EACH END CONNECTION.

SAFETY CABLE LENGTH	
50 FT	SK550
100 FT	SK1100
150 FT	SK1650

- ROOF PADS AND MATS ARE AVAILABLE AS AN OPTION. PART NUMBERS: BRM405 & BRM410. NUT LOCKING IS DEPENDENT UPON INITIAL TENSION IN BOLT. INSPECT MOUNT, ANTENNA AND TIGHTNESS OF NUTS AT SIX MONTH MAXIMUM INTERVALS.

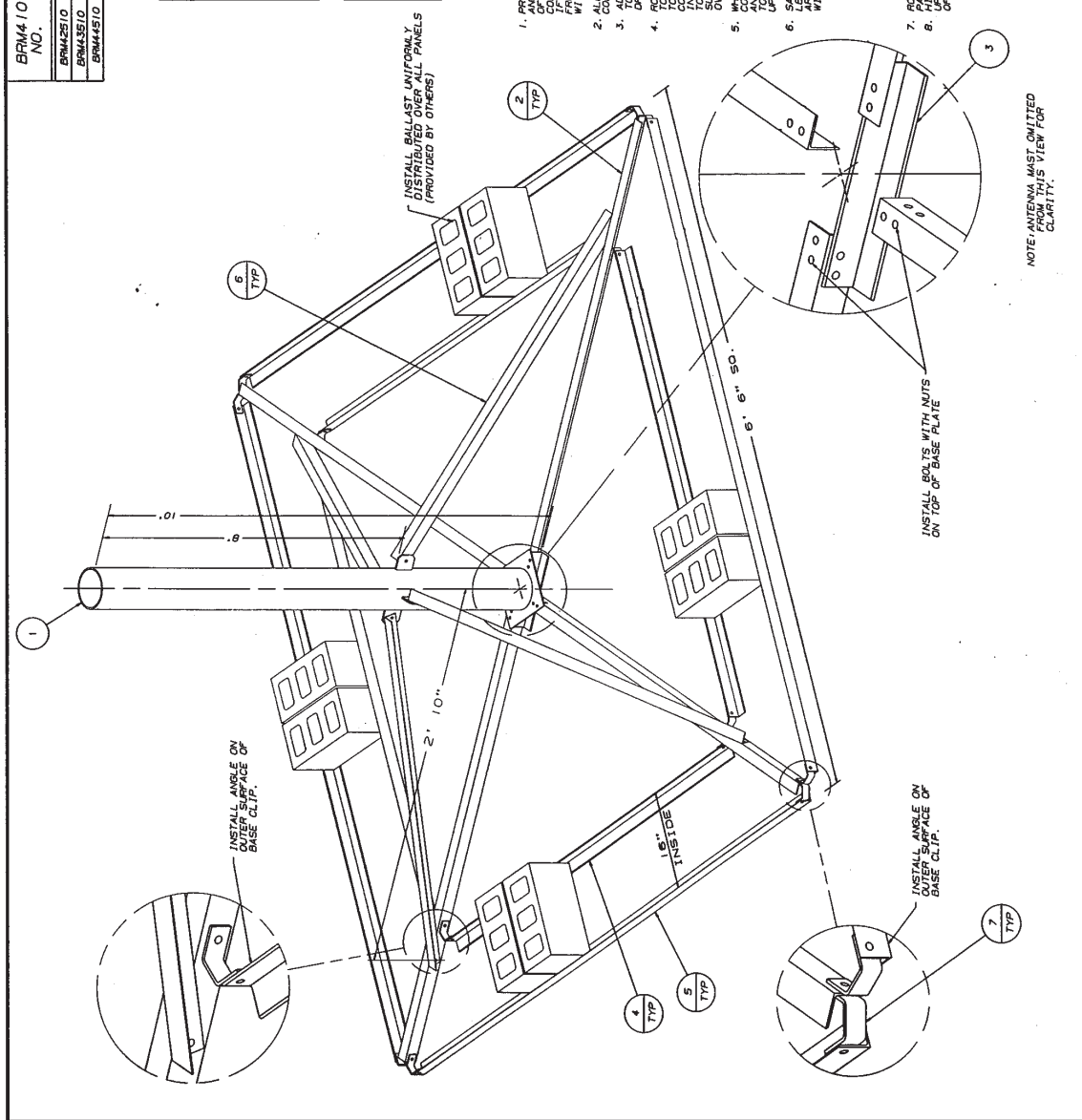
REVISIONS		DATE	BY	APP'D.
1	ISSUED PART NUMBER & ORDER SUMMARY			

DATE	BY	APP'D.
02/27/05		
3/28/05		
5/28/05		

ROHN	
Model	BRM4-10 BALLAST ROOF MOUNT
Part No.	BRM4-10
Rev.	1.0/2/05 (See FILE:372610) (Drawing No. 0950764RZ)





# Non Penetrating Roof Mounts

## BRM4 AND BRM410 ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED AREA (E.P.A.) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH)							
				h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
				2	300	7.1	171	242	198	171	153
	500	11.8	221	313	256	221	198	181	167	157	148
	700	16.6	261	370	302	262	234	214	198	185	175
	900	21.3	296	416	340	294	263	240	223	208	196
	1100	26.0	328	448	366	317	284	259	240	224	211
	1300	30.8	356	478	391	338	302	276	256	239	225
	1500	35.5	383	506	414	358	320	292	271	253	239
	1700	40.2	407	533	435	377	337	308	285	267	251
	1900	45.0	431	558	456	395	353	322	299	279	263
	2100	49.7	453	583	476	412	369	336	312	291	275
	2300	54.4	474	604	493	427	382	349	323	302	285
4	300	7.1	121	171	140	121	108	99	92	86	81
	500	11.8	156	221	181	157	140	128	118	111	104
	700	16.6	185	262	214	185	166	151	140	131	123
	900	21.3	210	294	240	208	186	170	157	147	139
	1100	26.0	232	317	259	224	201	183	169	159	149
	1300	30.8	252	338	276	239	214	195	181	169	159
	1500	35.5	271	358	292	253	226	207	191	179	169
	1700	40.2	288	377	308	267	238	218	201	188	178
	1900	45.0	305	395	322	279	250	228	211	197	186
	2100	49.7	320	412	336	291	261	238	220	206	194
	2300	54.4	335	427	349	302	270	247	228	213	201
6	300	7.1	99	140	114	99	89	81	75	70	66
	500	11.8	128	181	148	128	114	104	97	90	85
	700	16.6	151	214	175	151	135	123	114	107	101
	900	21.3	171	240	196	170	152	139	128	120	113
	1100	26.0	189	259	211	183	164	149	138	129	122
	1300	30.8	206	276	225	195	175	159	148	138	130
	1500	35.5	221	292	239	207	185	169	156	146	138
	1700	40.2	235	308	251	218	195	178	165	154	145
	1900	45.0	249	322	263	228	204	186	172	161	152
	2100	49.7	261	336	275	238	213	194	180	168	159
	2300	54.4	274	349	285	247	220	201	186	174	164
8	300	7.1	86	121	99	86	77	70	65	61	57
	500	11.8	110	157	128	111	99	90	84	78	74
	700	16.6	131	185	151	131	117	107	99	93	87
	900	21.3	148	208	170	147	132	120	111	104	98
	1100	26.0	164	224	183	159	142	129	120	112	106
	1300	30.8	178	239	195	169	151	138	128	120	113
	1500	35.5	191	253	207	179	160	146	135	127	119
	1700	40.2	204	267	218	188	169	154	142	133	126
	1900	45.0	215	279	228	197	177	161	149	140	132
	2100	49.7	226	291	238	206	184	168	156	146	137
	2300	54.4	237	302	247	213	191	174	161	151	142

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 CHECKED BY: *HA*    DATE: *4/30/98*  
 APP'D ENG: *MSJ*    DATE: *5/1/98*  
 APP'D. SALES: *DL*    DATE: *5/4/98*  
 FILE NUMBER: *37761DL*  
 DRAWING NUMBER: *A981104-1 OF 9*

ROHN  
**BRM4 AND BRM410 ALLOWABLE  
 ANTENNA AREAS**



**BRM4 AND BRM410 ALLOWABLE ANTENNA AREAS**

EFFECTIVE PROJECTED AREA (E.P.A.) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH)							
				h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
				10	300	7.1	77	108	89	77	69
	500	11.8	99	140	114	99	89	81	75	70	66
	700	16.6	117	166	135	117	105	96	89	83	78
	900	21.3	133	186	152	132	118	107	100	93	88
	1100	26.0	147	201	164	142	127	116	107	100	95
	1300	30.8	159	214	175	151	135	123	114	107	101
	1500	35.5	171	226	185	160	143	131	121	113	107
	1700	40.2	182	238	195	169	151	138	127	119	112
	1900	45.0	193	250	204	177	158	144	134	125	118
	2100	49.7	203	261	213	184	165	150	139	130	123
	2300	54.4	212	270	220	191	171	156	144	135	127
12	300	7.1	70	99	81	70	63	57	53	49	47
	500	11.8	90	128	104	90	81	74	68	64	60
	700	16.6	107	151	123	107	96	87	81	76	71
	900	21.3	121	170	139	120	107	98	91	85	80
	1100	26.0	134	183	149	129	116	106	98	92	86
	1300	30.8	145	195	159	138	123	113	104	98	92
	1500	35.5	156	207	169	146	131	119	111	103	97
	1700	40.2	166	218	178	154	138	126	116	109	103
	1900	45.0	176	228	186	161	144	132	122	114	107
	2100	49.7	185	238	194	168	150	137	127	119	112
	2300	54.4	193	247	201	174	156	142	132	123	116
14	300	7.1	65	92	75	65	58	53	49	46	43
	500	11.8	84	118	97	84	75	68	63	59	56
	700	16.6	99	140	114	99	89	81	75	70	66
	900	21.3	112	157	128	111	100	91	84	79	74
	1100	26.0	124	169	138	120	107	98	91	85	80
	1300	30.8	135	181	148	128	114	104	97	90	85
	1500	35.5	145	191	156	135	121	111	102	96	90
	1700	40.2	154	201	165	142	127	116	108	101	95
	1900	45.0	163	211	172	149	134	122	113	106	100
	2100	49.7	171	220	180	156	139	127	118	110	104
	2300	54.4	179	228	186	161	144	132	122	114	108
16	300	7.1	61	86	70	61	54	49	46	43	40
	500	11.8	78	111	90	78	70	64	59	55	52
	700	16.6	92	131	107	93	83	76	70	65	62
	900	21.3	105	147	120	104	93	85	79	74	69
	1100	26.0	116	159	129	112	100	92	85	79	75
	1300	30.8	126	169	138	120	107	98	90	85	80
	1500	35.5	135	179	146	127	113	103	96	90	84
	1700	40.2	144	188	154	133	119	109	101	94	89
	1900	45.0	152	197	161	140	125	114	106	99	93
	2100	49.7	160	206	168	146	130	119	110	103	97
	2300	54.4	168	213	174	151	135	123	114	107	101

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DRAWN BY:	MSJ	DATE:	4/30/98	ROHN <b>BRM4 AND BRM410 ALLOWABLE                  ANTENNA AREAS</b>	
CHECKED BY:	HA	DATE:	4/30/98		
APP'D ENG:	MSJ	DATE:	5/1/98		
APP'D. SALES	DL	DATE:	5/4/98		
FILE NUMBER:	37761DL				
DRAWING NUMBER:	A981104-2 OF 9				



# Non Penetrating Roof Mounts

## BRM4 AND BRM410 ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED AREA (E.P.A.) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH)							
				h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
				18	300	7.1	57	81	66	57	51
	500	11.8	74	104	85	74	66	60	56	52	49
	700	16.6	87	123	101	87	78	71	66	62	58
	900	21.3	99	139	113	98	88	80	74	69	65
	1100	26.0	109	149	122	106	95	86	80	75	70
	1300	30.8	119	159	130	113	101	92	85	80	75
	1500	35.5	128	169	138	119	107	97	90	84	80
	1700	40.2	136	178	145	126	112	103	95	89	84
	1900	45.0	144	186	152	132	118	107	100	93	88
	2100	49.7	151	194	159	137	123	112	104	97	92
	2300	54.4	158	201	164	142	127	116	108	101	95
20	300	7.1	54	77	63	54	48	44	41	38	36
	500	11.8	70	99	81	70	63	57	53	49	47
	700	16.6	83	117	96	83	74	68	63	59	55
	900	21.3	94	132	107	93	83	76	70	66	62
	1100	26.0	104	142	116	100	90	82	76	71	67
	1300	30.8	113	151	123	107	96	87	81	76	71
	1500	35.5	121	160	131	113	101	92	86	80	75
	1700	40.2	129	169	138	119	107	97	90	84	79
	1900	45.0	136	177	144	125	112	102	94	88	83
	2100	49.7	143	184	150	130	117	106	99	92	87
	2300	54.4	150	191	156	135	121	110	102	95	90
22	300	7.1	52	73	60	52	46	42	39	37	34
	500	11.8	67	94	77	67	60	54	50	47	44
	700	16.6	79	112	91	79	71	64	60	56	53
	900	21.3	89	126	102	89	79	72	67	63	59
	1100	26.0	99	135	110	96	86	78	72	68	64
	1300	30.8	107	144	118	102	91	83	77	72	68
	1500	35.5	115	153	125	108	97	88	82	76	72
	1700	40.2	123	161	131	114	102	93	86	80	76
	1900	45.0	130	168	137	119	106	97	90	84	79
	2100	49.7	137	176	143	124	111	101	94	88	83
	2300	54.4	143	182	149	129	115	105	97	91	86
24	300	7.1	49	70	57	49	44	40	37	35	33
	500	11.8	64	90	74	64	57	52	48	45	43
	700	16.6	75	107	87	76	68	62	57	53	50
	900	21.3	86	120	98	85	76	69	64	60	57
	1100	26.0	95	129	106	92	82	75	69	65	61
	1300	30.8	103	138	113	98	87	80	74	69	65
	1500	35.5	110	146	119	103	92	84	78	73	69
	1700	40.2	118	154	126	109	97	89	82	77	73
	1900	45.0	124	161	132	114	102	93	86	81	76
	2100	49.7	131	168	137	119	106	97	90	84	79
	2300	54.4	137	174	142	123	110	101	93	87	82

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CHECKED BY: <i>HA</i>	DATE: <i>4/30/98</i>
APP'D ENG: <i>MSJ</i>	DATE: <i>5/1/98</i>
APP'D. SALES <i>DL</i>	DATE: <i>5/4/98</i>
FILE NUMBER: <i>37761DL</i>	
DRAWING NUMBER: <i>A981104-3 OF 9</i>	

ROHN  
**BRM4 AND BRM410 ALLOWABLE  
ANTENNA AREAS**



**BALLAST REQUIREMENTS FOR 78 INCH SQUARE BRM**

ANTENNA DIAMETER	BALLAST (POUNDS)	ZERO VELOCITY ROOF LOAD (PSF)	MAX. V (MPH)	WIND SPEEDS RESULTING IN SLIDING COEFFICIENT OF FRICTION = .50		
				EL = 0°	EL = 20°	EL = 40°
2 FT (.6m)	150	4	78	70	72	78
	200	5	90	81	83	90
	300	7	110	99	102	110
	400	10	127	115	118	127
	500	12	142	128	132	142
4 FT (1.2m)	200	5	45	41	42	45
	400	10	64	57	59	64
	600	14	78	70	72	78
	800	19	90	81	83	90
	1000	24	101	91	93	101
	1200	29	110	99	102	110
	1400	33	119	107	110	119
	1600	38	127	115	118	127
	1800	43	135	122	125	135
2000	48	140	128	132	140	

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CHECKED BY: PAM	DATE: 11-23-88
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FILE NUMBER: 24059RK	
DRAWING NUMBER: A881574-1	

UNR-ROHN

BRM BALLAST REQUIREMENTS





## Non Penetrating Roof Mounts

Drawing No. A881574-2

1. Ballast requirements are provided to assist consumers in determining the applicability of the 78 inch square ballast roof mount (BRM) for an antenna installation. The ballast data should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
2. Ballast requirements are based on typical ANSI/EIA-222-D paraboloid antennas supported 12 inches from the vertex of the antenna on a 36 inch long mounting pipe on a flat supporting surface (See note 11). Specific antenna types may require more stringent wind loads and ballast requirements and must be investigated for each installation. The load carrying requirements of the supporting surface, the mast, the antenna and the antenna's connection to the mast must also be investigated for each installation.
3. The ballast weights indicated are net ballast weights, and must be uniformly distributed over all panels. The effective weight of the mount and antenna may be deducted from the ballast weights indicated to determine ballast panel weight requirements. The effective weight of the mount and antenna may be calculated by subtracting the uplift component of wind load from the actual weight of the mount and antenna.  
(Worst case ANSI/EIA-222-D uplift wind load component =  $.000910 (A) (V)^2$  at an  $80^\circ$  elevation angle).
4. The zero velocity roof loads shown are equal to the ballast weights indicated divided by the total area enclosed by the perimeter of the mount (i.e. an area greater than the ballast panel contact area). If effective mount and antenna weights are considered when determining ballast panel weight requirements, the zero velocity roof loads will be higher than those indicated due to the absence of the uplift component of wind load. The zero velocity roof load, in all cases, equals the weight of the mount, antenna, and ballast panel weights, divided by the total area enclosed by the perimeter of the mount (42 sq. ft.). Total roof loads under wind loading conditions would include wind forces and moments, weights of ballast, mount, antenna and roof pads. (Worst case ANSI/EIA-222-D download wind component =  $.003374 (A) (V)^2$  at a  $60^\circ$  elevation angle).
5. Maximum wind velocities are based on a minimum 1.5 factor of safety against structural failure and overturning for the worst case antenna elevation angle. (See notes 12 and 13). The wind speeds which may occur at an installation must be determined on an individual site basis.
6. The tabulated wind speeds resulting in sliding are based on a factor of safety (F.S.) equal to 1.0 and a coefficient of friction ( $\mu$ ) equal to .50. (See note 13). A 1.0 factor of safety was used assuming that at higher wind speeds, safety cables or other suitable attachments to the support structure would prevent sliding beyond a safe, designated area. Wind speeds are given for 0, 20, and 40 degree antenna elevation angles. The .50 coefficient of friction value was determined from full-scale load tests using wet UNR-Rohn roof pads on wet troweled finished concrete. The appropriate coefficient of friction to determine wind speeds resulting in sliding must be determined on an individual site basis. The coefficient of friction may vary under changing moisture and temperature conditions.





Drawing No. A881574-2

Wind speeds resulting in sliding for other factors of safety or for other coefficients of friction may be found by multiplying the tabulated wind speeds resulting in sliding by the following factor:

$$\frac{\mu}{.5 \text{ (F.S.)}}^{1/2}$$

$\mu$  = Coefficient of Friction  
F.S. = Factor of Safety

7. UNR-ROHN recommends that ballast material always be placed prior to mounting the antenna and that roof pads and mount be secured to prevent hazards from occurring under extreme wind loading conditions. Precautions should also be taken to prevent the inadvertent removal of ballast material after installation and to insure that ballast material is fully supported by the ballast support angles (required for ballast to be effective in resisting overturning and sliding).
8. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast panels and under the mast pipe. When roof pads are utilized, the minimum coefficient of friction between the ballast panels and roof pad or between the roof pads and supporting surface must be used to calculate the wind speeds resulting in sliding.
9. When adhesives, sealants or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to insure that damage to the supporting surface will not occur upon wind loading.
10. Adhesives and sealants must be capable of resisting shear, otherwise, they may act as a lubricant and decrease the effective coefficient of friction between the ballast panels and the supporting surface. Windward ballast panels may partially lift off at wind speeds well below the maximum wind speeds indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.



## Non Penetrating Roof Mounts

Wind speeds resulting in sliding for other factors of safety or for other coefficients of friction may be found by multiplying the tabulated wind speeds resulting in sliding by the following factor:

$$\frac{\mu}{.5 \text{ (F.S.)}}^{1/2}$$

$\mu$  = Coefficient of Friction  
F.S. = Factor of Safety

7. UNR-ROHN recommends that ballast material always be placed prior to mounting the antenna and that roof pads and mount be secured to prevent hazards from occurring under extreme wind loading conditions. Precautions should also be taken to prevent the inadvertent removal of ballast material after installation and to insure that ballast material is fully supported by the ballast support angles (required for ballast to be effective in resisting overturning and sliding).
8. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast panels and under the mast pipe. When roof pads are utilized, the minimum coefficient of friction between the ballast panels and roof pad or between the roof pads and supporting surface must be used to calculate the wind speeds resulting in sliding.
9. When adhesives, sealants or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to insure that damage to the supporting surface will not occur upon wind loading.
10. Adhesives and sealants must be capable of resisting shear, otherwise, they may act as a lubricant and decrease the effective coefficient of friction between the ballast panels and the supporting surface. Windward ballast panels may partially lift off at wind speeds well below the maximum wind speeds indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.



BRM6		MAST SPECIFICATIONS	
BRM6 NO.	PART NO.	DESCRIPTION	DWG. NO.
BRM630M	KY1210	BRM6 WITH 2.5 STD. PIPE (2-7/8 OD) X 45-3/4"	CB90745
BRM635M	KY1570	BRM6 WITH 3 STD. PIPE (3-1/2 OD) X 45-3/4"	BB90759
BRM640M	KY1578	BRM6 WITH 3-1/2 STD. PIPE (4-1/2 OD) X 45-3/4"	BB90759
BRM645M	KY1579	BRM6 WITH 4 STD. PIPE (4-1/2 OD) X 45-3/4"	BB90744
BRM650M	KY1580	BRM6 WITH 5 STD. PIPE (5-3/8 OD) X 45-3/4"	BB90744
BRM655M	KY1581	BRM6 WITH 6 STD. PIPE (6-3/8 OD) X 45-3/4"	BB90741
BRM6610M	KY2043	BRM6 WITH 4 STD. PIPE (4-1/2 OD) X 117-3/4"	N/A

BRM6 BILL OF MATERIAL			
ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	SEE CHART	ANTENNA MAST SUPPORT	CB90745
2	KY1573M	BASE DIAGONAL	BB90759
3	KY1574	BASE ANGLE CENTER	BB90759
4	KY1572	BASE GIRT INNER	BB90744
5	KY1571	BASE GIRT OUTER	BB90744
6	KY1575	KNEE BRACE ANGLE	BB90741
7	KY1577A	HARDWARE KIT	N/A

KY1577A HARDWARE KIT BILL OF MATERIAL			
ITEM QUAN.	PART NO.	DESCRIPTION	DWG. NO.
8	KY1576	BASE CLIPS	BB90759
9	2100799	BOLT 3/8 X 1	N/A
10	230024	NUT 3/8 DIA.	N/A

**NOTE: ALL PARTS HOT DIP GALVANIZED**

**GENERAL NOTES**

- PRIOR TO INSTALLATION VERIFY THAT THE INSTALLATION, ROOF MATERIAL AND SUPPORTING STRUCTURES HAVE BEEN INSPECTED BY THE APPROVED ANTENNA SYSTEM CONTRACTOR THAT THE SUPPORTING SURFACES, ANCHORS, AND/OR SAFETY CABLES, ARE CAPABLE OF SUPPORTING THE ANTENNA SYSTEM AND THAT THE INSTALLATION WILL BE IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED TO MEET APPLICABLE CODES.
- SAFETY CABLES MUST BE CONSISTING OF 3 1/8 IN. SAFETY WIRE (3090) AND SUPPLEMENTAL STRENGTHENING SIX CLAMPS TO SECURE MOUNT AND/OR BALLAST ARE AVAILABLE AS AN OPTION. USE THREE CABLE CLAMPS AT EACH END CONNECTION WITH THE U-BOLT ON THE DEAD END OF THE CABLE.
- ROOF PADS ARE AVAILABLE AS AN OPTION. PART NUMBER BRM6PAD.
- ROOF STRENGTH DATA ARE PROVIDED. MIT LOCKING IS DEPENDENT UPON INITIAL TENSION IN BOLTS. INSPECT MOUNT, ANTENNA AND TIGHTNESS OF NUTS AT SIX MONTH MAXIMUM INTERVALS.
- FOR ASSISTANCE IN DETERMINING BALLAST REQUIREMENTS REFER TO DRAWING AB60747, 1-6, AND AB6259, 1-6.

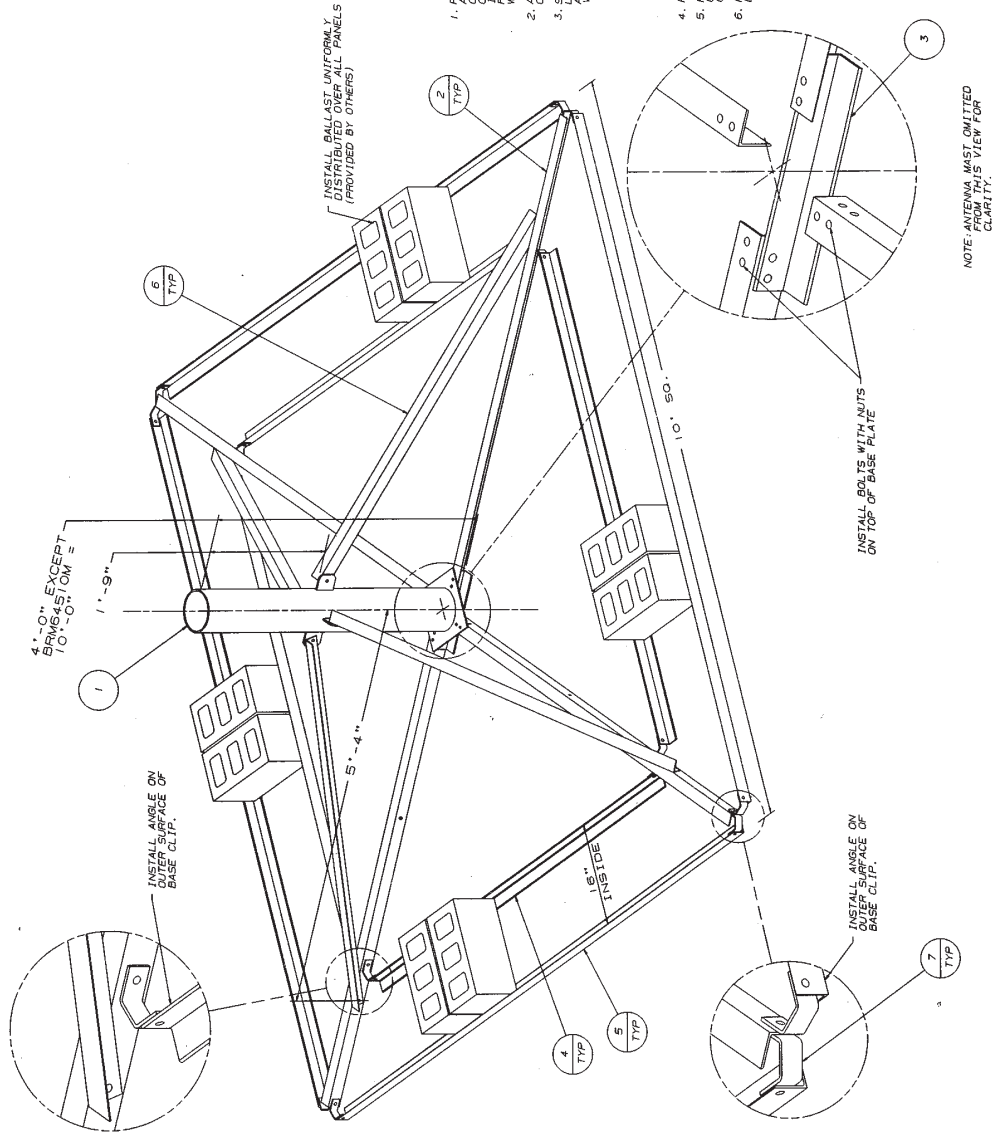
  

SAFETY CABLE LENGTH			
60 FT	100 FT	150 FT	PART NUMBER
	SOA50	SOA100	
	SOA150		

ROHN			
Dr.	By	Date	Part No.
		7/11/88	
Checked:	MM	2/14/89	
Appr. Eng.:	TS	2/24/89	

Drawing No. **CB9072285**





# Non Penetrating Roof Mounts

## BRM6 BALLAST REQUIREMENTS TABLE

ANTENNA DIAMETER	BALLAST (POUNDS)	ZERO VELOCITY LOAD (PSF)	DESIGN WIND VELOCITIES COEFFICIENT OF FRICTION = .50					
			EL = 0°		EL = 20°		EL = 40°	
			Vmax	Vs	Vmax	Vs	Vmax	Vs
4 FT (1.2m)	500	5.0	87	67	103	75	112	92
	750	7.5	107	82	131	92	142	113
	1000	10.0	125	95	154	107	167	131
	1250	12.5	139	106	169	119	189	146
	1500	15.0	148	117	180	131	203	160
	1750	17.5	157	126	190	141	211	173
	2000	20.0	165	135	196	151	211	185
6 FT (1.8m)	500	5.0	58	45	65	50	69	61
	750	7.5	71	55	83	61	89	75
	1000	10.0	83	63	99	71	106	87
	1250	12.5	93	71	112	79	120	97
	1500	15.0	99	78	120	87	129	107
	1750	17.5	105	84	127	94	137	115
	2000	20.0	110	90	130	101	141	123
	2250	22.5	115	95	130	107	141	131
	2500	25.0	120	100	130	113	141	138
	2750	27.5	125	105	130	118	141	141
3000	30.0	127	110	130	123	141	141	
8 FT (2.4m)	750	7.5	53	41	57	46	60	56
	1000	10.0	62	47	69	53	73	65
	1250	12.5	69	53	79	59	84	73
	1500	15.0	74	58	85	65	90	80
	1750	17.5	78	63	91	70	96	86
	2000	20.0	82	67	97	75	102	92
	2250	22.5	86	71	98	80	103	98
	2500	25.0	90	75	98	84	103	103
	2750	27.5	94	79	98	88	103	103
	3000	30.0	95	82	98	92	103	103

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DRAWN BY: CSR	DATE: 2-8-89
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APP'D SALES: <i>PL</i>	DATE: <i>3/7/89</i>
FILE NUMBER: 24330RK	
DRAWING NUMBER: A890747-1 of 6	

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BRM6 BALLAST REQUIREMENTS



**NOTES FOR BRM6 BALLAST REQUIREMENTS TABLE**

1. Ballast requirements are provided to assist consumers in determining the applicability of the BRM6 for an antenna installation. Refer to sheets 4, 5, and 6 for the criteria used to develop the ballast requirements table. The ballast data and development criteria should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
2. Ballast requirements are based on typical ANSI/EIA-222-D paraboloid antennas supported 12 inches from the vertex of the antenna on a 48 inch long mounting pipe on a flat supporting surface. The vertex of the antenna is assumed to be at the top of the mounting pipe. Specific antenna types and/or other mounting configurations may require more stringent strength and ballast requirements and must be investigated for each installation. The load carrying requirements of the supporting surface, the mast, the antenna and the antenna’s connection to the mast must also be investigated for each installation.
3. The ballast weights indicated are net ballast weights, and must be uniformly distributed over all panels. The weight of the mount and antenna may be considered as ballast. The following table summarizes the weight of the BRM6 mount:

<b>BRM6 Antenna Mount Weights</b>					
Mount No.	BRM635	BRM640	BRM645	BRM655	BRM665
Mast Pipe Size	3" Std.	3 1/2" Std.	4" Std.	5" Std.	6" Std.
Weight (lbs.)	244	251	257	273	290

4. The zero velocity loads shown are equal to the ballast weights indicated divided by the total area enclosed by the perimeter of the mount (100 sq. ft.). This area is greater than the ballast panel contact area. Loads which must also be investigated include reactions caused by wind forces and movements, live loads, and dead loads of ballast, mount, antenna, miscellaneous equipment and roof pads. Refer to sheet 4 for maximum ANSI/EIA-222-D wind load coefficients for paraboloid antennas supported as described in note 2.
5. The tabulated maximum wind velocities (Vmax) are based on a minimum 1.5 factor of safety against structural failure and overturning. The wind velocity and the appropriate factor of safety for an installation must be determined on an individual site basis. Potential increases in wind velocity due to channeling, roof projections, and other obstructions, must be considered when determining ballast requirements.



### **NOTES FOR BRM6 BALLAST REQUIREMENTS TABLE**

6. The tabulated wind velocities resulting in sliding ( $V_s$ ) are based on a factor of safety equal to 1.0 and a coefficient of friction equal to .50. A 1.0 factor of safety was used assuming that at higher wind velocities, safety cables or other suitable attachments to the support structure would prevent sliding beyond a safe, designated area. Wind velocities are given for 0, 20 and 40 degree antenna elevation angles. The appropriate coefficient of friction and factor of safety to determine wind velocities resulting in sliding must be determined on an individual site basis. The coefficient of friction may vary under changing moisture and temperature conditions. The minimum coefficient of friction must be used to evaluate sliding resistance.
7. The values of  $V_s$  indicated do not apply for installations which are prevented from sliding by cables or other suitable attachments to the supporting structure. Attachments to the supporting structure, under such conditions, must resist the portion of wind load which exceeds the frictional sliding resistance of the mount.
8. Refer to sheets 4, 5, and 6 for assistance in determining  $V_{max}$  and  $V_s$  for specific wind load coefficients and/or other factors of safety and coefficients of friction.
9. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast panels and under the mast pipe. The minimum coefficient of friction must be considered for calculating the wind velocities resulting in sliding. When roof pads are utilized, the surface between the ballast panels and the roof pads and the surface between the roof pads and the supporting surface must both be considered.
10. Rohn recommends that ballast material always be placed prior to mounting the antenna and that roof pads and mount be secured to prevent hazards from occurring under extreme wind loading conditions. Precautions should also be taken to prevent the inadvertent removal of ballast material after installation and to insure that ballast material is fully supported by the ballast support angles (required for ballast to be effective in resisting overturning and sliding).
11. When adhesives, sealants or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to insure that damage to the supporting surface will not occur upon wind loading.
12. Adhesives and sealants must be capable of resisting shear, otherwise, they may act as a lubricant and decrease the effective coefficient of friction between the ballast panels and the supporting surface. Windward ballast panels may partially lift off at wind velocities below the maximum wind velocities indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.
13. The installation, roof material and supporting structure must be capable of withstanding all loads imposed by the antenna system. Supporting surfaces, anchors and/or safety cables must be sufficient to resist the reactions from the antenna system. The installation must meet all applicable local, state and federal requirements. Due to the many variables involved, Rohn does not accept responsibility for verifying the applicability of the BRM6 for a specific installation.





**BRM64510 ALLOWABLE ANTENNA AREAS**

EFFECTIVE PROJECTED AREA (E.P.A.)	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	V <sub>max</sub> AT CENTROID OF PROJECTED AREA, (MPH) 4" STD. PIPE MAST, 4.5" O.D., GRADE 50						
				CENTROID OF E.P.A.						
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
10 FT <sup>2</sup>	500	5.0	99	128	114	104	96	90	85	81
	750	7.5	121	156	140	128	118	110	104	99
	1000	10.0	140	180	161	147	136	128	120	114
	1250	12.5	156	202	180	165	152	143	134	128
	1500	15.0	171	218	195	178	165	154	145	138
	1750	17.5	185	230	206	188	174	163	154	146
	2000	20.0	198	242	217	198	183	171	162	153
	2250	22.5	210	254	227	207	192	179	169	160
	2500	25.0	221	265	237	216	200	187	176	167
	2750	27.5	232	275	246	225	208	195	183	174
3000	30.0	242	280	250	228	211	198	186	177	
15 FT <sup>2</sup>	500	5.0	81	104	93	85	79	74	69	66
	750	7.5	99	128	114	104	96	90	85	81
	1000	10.0	114	147	132	120	111	104	98	93
	1250	12.5	128	165	147	134	125	116	110	104
	1500	15.0	140	178	159	145	134	126	119	113
	1750	17.5	151	188	168	154	142	133	125	119
	2000	20.0	161	198	177	162	150	140	132	125
	2250	22.5	171	207	185	169	157	147	138	131
	2500	25.0	180	216	193	176	163	153	144	137
	2750	27.5	189	225	201	183	170	159	150	142
3000	30.0	198	228	204	186	173	161	152	144	
20 FT <sup>2</sup>	500	5.0	70	90	81	74	68	64	60	57
	750	7.5	86	110	99	90	84	78	74	70
	1000	10.0	99	128	114	104	96	90	85	81
	1250	12.5	110	143	128	116	108	101	95	90
	1500	15.0	121	154	138	126	116	109	103	97
	1750	17.5	131	163	146	133	123	115	109	103
	2000	20.0	140	171	153	140	130	121	114	108
	2250	22.5	148	179	160	147	136	127	120	113
	2500	25.0	156	187	167	153	141	132	125	118
	2750	27.5	164	195	174	159	147	138	130	123
3000	30.0	171	198	177	161	149	140	132	125	

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DRAWN BY: CSR	DATE: 9/14/94	UNR-ROHN  <b>BRM64510 ALLOWABLE ANTENNA AREAS</b>			
CHECKED BY: HA	DATE: 11-3-94				
APP'D. ENG: DGB	DATE: 11-3-94				
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FILE NUMBER: 24330RK					
DRAWING NUMBER: A942359-1 of 8					



# Non Penetrating Roof Mounts

## BRM64510 ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED AREA (E.P.A.)	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH) 4" STD. PIPE MAST, 4.5" O.D., GRADE 50						
				CENTROID OF E.P.A.						
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
25 FT <sup>2</sup>	500	5.0	63	81	72	66	61	57	54	51
	750	7.5	77	99	88	81	75	70	66	63
	1000	10.0	88	114	102	93	86	81	76	72
	1250	12.5	99	128	114	104	96	90	85	81
	1500	15.0	108	138	123	113	104	97	92	87
	1750	17.5	117	146	130	119	110	103	97	92
	2000	20.0	125	153	137	125	116	108	102	97
	2250	22.5	133	160	144	131	121	113	107	101
	2500	25.0	140	167	150	137	127	118	112	106
	2750	27.5	147	174	156	142	132	123	116	110
3000	30.0	153	177	158	144	134	125	118	112	
30 FT <sup>2</sup>	500	5.0	57	74	66	60	56	52	49	47
	750	7.5	70	90	81	74	68	64	60	57
	1000	10.0	81	104	93	85	79	74	69	66
	1250	12.5	90	116	104	95	88	82	78	74
	1500	15.0	99	126	113	103	95	89	84	80
	1750	17.5	107	133	119	109	101	94	89	84
	2000	20.0	114	140	125	114	106	99	93	89
	2250	22.5	121	147	131	120	111	104	98	93
	2500	25.0	128	153	137	125	115	108	102	97
	2750	27.5	134	159	142	130	120	112	106	100
3000	30.0	140	161	144	132	122	114	108	102	
35 FT <sup>2</sup>	500	5.0	53	68	61	56	52	48	45	43
	750	7.5	65	84	75	68	63	59	56	53
	1000	10.0	75	96	86	79	73	68	64	61
	1250	12.5	84	108	96	88	82	76	72	68
	1500	15.0	91	116	104	95	88	82	78	74
	1750	17.5	99	123	110	101	93	87	82	78
	2000	20.0	106	130	116	106	98	92	86	82
	2250	22.5	112	136	121	111	103	96	90	86
	2500	25.0	118	141	127	115	107	100	94	89
	2750	27.5	124	147	132	120	111	104	98	93
3000	30.0	129	149	134	122	113	106	100	94	

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DRAWN BY: CSR	DATE: 9/14/94	UNR-ROHN  <b>BRM64510 ALLOWABLE ANTENNA AREAS</b>			
CHECKED BY: HA	DATE: 11-3-94				
APP'D. ENG: DGB	DATE: 11-3-94				
APP'D. SALES:	DATE:				
FILE NUMBER: 24330RK					
DRAWING NUMBER: A942359-2 of 8					



**BRM64510 ALLOWABLE ANTENNA AREAS**

EFFECTIVE PROJECTED AREA (E.P.A.)	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH) 4" STD. PIPE MAST, 4.5" O.D., GRADE 50						
				CENTROID OF E.P.A.						
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
40 FT <sup>2</sup>	500	5.0	49	64	57	52	48	45	43	40
	750	7.5	61	78	70	64	59	55	52	49
	1000	10.0	70	90	81	74	68	64	60	57
	1250	12.5	78	101	90	82	76	71	67	64
	1500	15.0	86	109	97	89	82	77	73	69
	1750	17.5	92	115	103	94	87	81	77	73
	2000	20.0	99	121	108	99	92	86	81	77
	2250	22.5	105	127	113	104	96	90	85	80
	2500	25.0	110	132	118	108	100	94	88	84
	2750	27.5	116	138	123	112	104	97	92	87
3000	30.0	121	140	125	114	106	99	93	88	
45 FT <sup>2</sup>	500	5.0	47	60	54	49	45	43	40	38
	750	7.5	57	74	66	60	56	52	49	47
	1000	10.0	66	85	76	69	64	60	57	54
	1250	12.5	74	95	85	78	72	67	63	60
	1500	15.0	81	103	92	84	78	73	68	65
	1750	17.5	87	109	97	89	82	77	72	69
	2000	20.0	93	114	102	93	86	81	76	72
	2250	22.5	99	120	107	98	90	85	80	76
	2500	25.0	104	125	112	102	94	88	83	79
	2750	27.5	109	130	116	106	98	92	86	82
3000	30.0	114	132	118	108	100	93	88	83	
50 FT <sup>2</sup>	500	5.0	44	57	51	47	43	40	38	36
	750	7.5	54	70	63	57	53	49	47	44
	1000	10.0	63	81	72	66	61	57	54	51
	1250	12.5	70	90	81	74	68	64	60	57
	1500	15.0	77	97	87	80	74	69	65	62
	1750	17.5	83	103	92	84	78	73	69	65
	2000	20.0	88	108	97	89	82	77	72	69
	2250	22.5	94	113	101	93	86	80	76	72
	2500	25.0	99	118	106	97	89	84	79	75
	2750	27.5	104	123	110	100	93	87	82	78
3000	30.0	108	125	112	102	94	88	83	79	

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DRAWN BY: CSR	DATE: 9/14/94	UNR-ROHN  <b>BRM64510 ALLOWABLE ANTENNA AREAS</b>			
CHECKED BY: HA	DATE: 11-3-94				
APP'D. ENG: DGB	DATE: 11-3-94				
APP'D. SALES:	DATE:				
FILE NUMBER: 24330RK					
DRAWING NUMBER: A942359-3 of 8					



# Non Penetrating Roof Mounts

ITEM	QTY	PART NO	DESCRIPTION	DWG NO
1	1	SEE CHART	DISH MAST SUPPORT	A950177
2	6	FY200	BASE ANGLES	A950179
3	1	FYS200	BASE KIT	A950179
4	1	FYS200	HARDWARE KIT	A950183

FRM NO.	EST. SHIPPING WT. LBS.	PART NO.	DESCRIPTION
FRM150	52	FY202	TUBE 1-1/4 X 168A X 60"
FRM155	53	FY204	TUBE 1-1/2 X 168A X 30"
FRM156	53	FY204	TUBE 1-1/2 X 168A X 30"
FRM238	57	FY205	TUBE 2-3/8 X 148A X 30"
FRM200	55	FY248	TUBE 2 X 168A X 60"
FRM255PS	58	FY253	PIPE 2 X SCH40 X 60"

QTY	PART NO	DESCRIPTION
3	220278	BOLT 5/16 X 3 (CARRIAGE)
12	220205	BOLT 5/16 X 3/4 (CARRIAGE)
15	240014	NUT 5/16
15	250050	LOCK WASHER 5/16
1	FORM050059	ASSEMBLY INSTRUCTIONS
1	FORM050060	WARNING LABEL 950279
1	FORM027842-A	SAFETY INFORMATION
1	FORM052802M	CATALOG SHEET
1	FYS200	HARDWARE KIT F7 MODEL FRM (ITEMS LISTED ABOVE)

NOTE: SECURE THE BRACE TUBES TO THE TOP AND BOTTOM BASE ANGLES AT THE TOP OF THE MAST. USE LOCKWASHER BOLTS W/ NUT AND LOCKWASHER THRU 3 PLACES

NOTE: THE BRACE TUBES CONNECTING TO THE TOP AND BOTTOM BASE ANGLES AT THE TOP OF THE MAST.

THE BRACE TUBE WILL FIT THE CENTER OF THE BASE ANGLES.

THE OUTSIDE ANGLES GO ON TOP OF THE TOP AND BOTTOM ANGLES NOTICE ANGLE ORIENTATION

SECURE BRACE TUBES TO THE BASE ANGLES BY TUBING TO THE CARRIAGE BOLT W/ NUT AND LOCKWASHER THRU THE LOCKWASHER THRU TYP. 4 PLACES ON EACH ANGLE

INSTALL 5/16 X 3/4 CARRIAGE BOLT W/ NUT AND LOCKWASHER THRU THE LOCKWASHER THRU TYP. 2 PLACES ON EACH ANGLE

INSTALL BALLAST UNIFORMLY (PROVIDED BY OTHERS)

BALLAST MATERIAL DETAIL

FRM	BILL OF MATERIAL
1	SEE CHART
2	FYS200
3	FYS200
4	FYS200

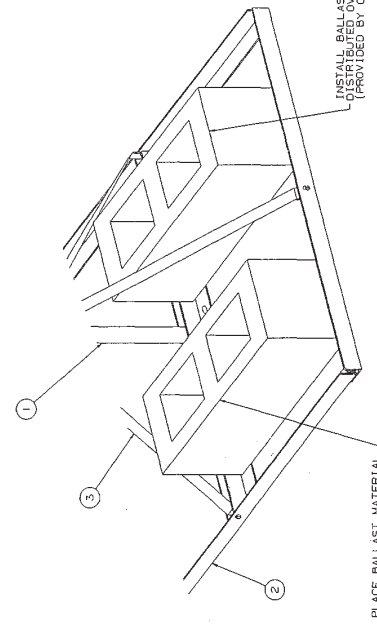
### NOTES

- BALLAST DATA SHOULD BE DETERMINED BY A LOCAL PROFESSIONAL ENGINEER. BALLAST WEIGHTS MUST BE DETERMINED AND PROVIDED BY OTHERS TO PREVENT OVERTURNING AND SLIDING AT THE DESIGN WIND LOAD.
- PRIOR TO INSTALLATION, VERIFY THAT THE INSTALLATION, ROOF MATERIAL AND SUPPORTING STRUCTURE HAVE BEEN DESIGNED TO SUPPORT THE PROPOSED ANTENNA SYSTEMS ALL LOADS IMPOSED BY THE PROPOSED ANTENNA SYSTEMS. SAFETY CABLES FOR PROTECTING SURFACES, ANCHORS, AND/OR FASTENERS MUST BE INSTALLED TO RESIST THE REACTIONS FROM THE ANTENNA SYSTEM AND THAT THE SYSTEMS CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED TO MEET APPLICABLE CODES.
- SAFETY CABLE KITS, CONSISTING OF A 3/16 EHS SAFETY CABLE (3990) AND ANCHORS, ARE AVAILABLE AS AN OPTION. USE THREE CABLES AND BALLAST ARE AVAILABLE AS AN OPTION. USE THREE CABLES AND BALLAST EACH END CONNECTION WITH THE U-BOLT ON THE DEAD END OF THE CABLE.

### SAFETY CABLE LENGTH

50 FT	SK100
100 FT	SK100
150 FT	SK150

- WHEN THE LARGER MAISTS ARE USED, THE ANGLE BOLTS MUST BE USED AND THE ANGLE BOLTS MUST BE INSTALLED INSIDE.
- WHEN ASSEMBLING THE FRMS IT IS BEST TO ASSEMBLE ALL TUBES AND ANGLES LOOSE. SQUARE THE FRMS, BACK AND FORTHEN DOWN ALL BOLTS.
- ROHN RECOMMENDS THAT BALLAST MATERIAL ALWAYS BE USED TO PREVENT THE ANTENNA FROM OCCURRING UNDER EXTREME WIND LOADING CONDITIONS. AND MUST BE SECURED TO PREVENT FURTHER DISH MOVEMENT.
- PRECAUTIONS SHOULD ALWAYS BE TAKEN TO PREVENT INSTALLATION AND REMOVAL OF BALLAST MATERIAL AFTER IS FULLY SUPPORTED BY THE BALLAST SUPPORT ANGLES.
- DISH STRENGTH BOLTS ARE PROVIDED. NUT LOCKING IS PROVIDED FOR ANTENNA AND TIGHTNESS OF NUTS AT SIX MONTH MAXIMUM INTERVALS.



**ROHN.**

MODEL FRM - NON-PENETRATING ROOF MOUNT

Issue of this specification, amendments or change orders shall be in writing and shall be signed by the following:

Drawn by	2-288	Revised by	3-2-82
Checked by	3-2-82	Approved by Engineering	3-2-82
Approved by Production	3-2-82	Part Number	950279
Manufactured by	3-2-82	Part Number	1-0-87
Drawn by	3-2-82	Part Number	1-0-87

Drawing Number: **D950008R3**



## **ROHN® NON-PENETRATING ROOF MOUNT**

For Wirelss Cable, DBS, and UHF/VHF Reception

- No penetration of roof surface
- Galvanized for corrosion protection
- Designed for concrete block ballast

<b>Specifications</b>		
<b>Model</b>	<b>Mast Height</b>	<b>Mast O.D.</b>
FRM125	60"	1-1/4"
FRM150	26"	1-1/2"
FRM166	26"	1.66"
FRM238	30"	2-3/8"
FRM238SP5	60"	2-3/8"

The FRM series is one of the latest additions to the complete line of ROHN antenna support products. Other receive antenna mounts include gable end mounts, tripod mounts, telescoping masts, towers and wall brackets. The FRM series goes together quickly, with a minimum of bolted connections. The angle steel frame provides sufficient room to hold up to eight concrete blocks (blocks not provided). Disassembled, the lightweight UPS Shippable FRM stores in very small spaces with the angle members nested and the tube braces bundled. Varied mast heights are available to keep a low profile or to allow the antenna to "look" over rooftop obstructions.







<b>JRM ALLOWABLE ANTENNA AREAS</b>											
EFFECTIVE PROJECTED AREA (EPA) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA (MPH)							
				H=2FT	H=3FT	H=4FT	H=5FT	H=6FT	H=7FT	H=8FT	H=9FT
4	250	10.0	110	129	105	91	82	75	69	65	61
	350	14.0	131	153	125	108	97	88	82	76	72
	450	18.0	148	173	141	122	110	100	93	87	82
	550	22.0	164	191	156	135	121	111	102	96	90
	650	26.0	178	208	170	147	132	120	111	104	98
	750	30.0	191	224	183	158	141	129	120	112	105
	850	34.0	204	238	194	168	151	137	127	119	112
	950	38.0	215	252	205	178	159	145	135	126	119
	1050	42.0	226	265	216	187	167	153	141	132	125
	1150	46.0	237	277	226	196	175	160	148	138	131
1250	50.0	247	289	236	204	183	167	154	144	136	
5	250	10.0	99	115	94	82	73	67	62	58	54
	350	14.0	117	137	112	97	86	79	73	68	64
	450	18.0	133	155	126	110	98	89	83	77	73
	550	22.0	147	171	140	121	108	99	92	86	81
	650	26.0	159	186	152	132	118	107	100	93	88
	750	30.0	171	200	163	141	126	115	107	100	94
	850	34.0	182	213	174	151	135	123	114	106	100
	950	38.0	193	225	184	159	142	130	120	113	106
	1050	42.0	203	237	193	167	150	137	126	118	112
	1150	46.0	212	248	202	175	157	143	132	124	117
1250	50.0	221	258	211	183	163	149	138	129	122	
6	250	10.0	90	105	86	75	67	61	56	53	50
	350	14.0	107	125	102	88	79	72	67	62	59
	450	18.0	121	141	115	100	89	82	76	71	67
	550	22.0	134	156	128	111	99	90	84	78	74
	650	26.0	145	170	139	120	107	98	91	85	80
	750	30.0	156	183	149	129	115	105	98	91	86
	850	34.0	166	194	159	137	123	112	104	97	92
	950	38.0	176	205	168	145	130	119	110	103	97
	1050	42.0	185	216	176	153	137	125	115	108	102
	1150	46.0	193	226	185	160	143	131	121	113	107
1250	50.0	202	236	192	167	149	136	126	118	111	
7	250	10.0	84	98	80	69	62	56	52	49	46
	350	14.0	99	115	94	82	73	67	62	58	54
	450	18.0	112	131	107	93	83	76	70	65	62
	550	22.0	124	145	118	102	92	84	77	72	68
	650	26.0	135	157	128	111	100	91	84	79	74
	750	30.0	145	169	138	120	107	98	90	85	80
	850	34.0	154	180	147	127	114	104	96	90	85
	950	38.0	163	190	155	135	120	110	102	95	90
	1050	42.0	171	200	163	141	126	115	107	100	94
	1150	46.0	179	209	171	148	132	121	112	105	99
1250	50.0	187	218	178	154	138	126	117	109	103	

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DRAWN BY: MSJ	DATE: 8/5/98	<b>ROHN Industries, Inc.</b>  <b>JRM ALLOWABLE</b>  <b>ANTENNA AREAS</b>
CHECKED BY: HA	DATE: 8/5/98	
APP'D ENG: TS	DATE: 8/10/98	
APP'D SALES:	DATE:	
FILE NUMBER:		
DRAWING NUMBER: A981812-1 OF 9		





Products

# COMMERCIAL & RESIDENTIAL MOUNTS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY



## MOUNTS

### FOR TODAY'S COMMUNICATION NEEDS

Not only can ROHN provide you with towers and poles to meet the stringent demands of today's communication industry, we can also provide the mounts and fittings needed to complete the project. ROHN offers many different models of mounts suitable for Satellites, Cellular and PCS applications, as well as mounts for amateur radio and television. The three categories of mounts offered by ROHN are Non-Penetrating Roof Mounts, Commercial Mounts and Residential Mounts.

ROHN manufactures roof and wall mounts for large aperture satellite antennas, including non-penetrating roof mounts for antennas up to 3 meters in diameter. ROHN also manufactures a complete line of towers and mounts for UHF-VHF home TV antennas. Mounts include tripods, telescoping masts, and various wall mounts.

## ROHN QUALITY

ROHN Mounts are all designed and engineered to handle the job of getting above ground interference. Each mount has been researched and developed to serve a specific purpose. With professionally engineered construction and Hot Dip Galvanizing after construction, you can be assured you're getting a virtually maintenance free product built to the highest standards. And because of our Hot Dip Galvanizing after fabrication, our mounts won't rust.





## GENERAL ASSEMBLY INFORMATION

### ROOF MOUNTS

Select a location on your roof where all Tripod or Quadpod feet are over rafters. Use lag screws of sufficient length to go through the roof surfacing material and into the rafter. A minimum of two lag screws per foot is required. If a rafter is not available, additional reinforcement should be added under the roof surface for support. Do not attach feet to roof surface only. Apply roofing compound under and around the feet for moisture sealing. Under no circumstances should anyone attempt to climb upon a Tripod or a Quadpod.

### WALL MOUNTS

Select a location where braces will attach to a structural member (wall stud, sill plate, etc). Use lag screws of sufficient length to go through the wall sheathing and or siding and into the structural member. Apply sealant as required for moisture protection.

### FACIA MOUNTS

Make certain your fascia is capable of supporting the loads created by your antenna and mount installation. Select a location where the braces will attach to a structural member. Use lag screws of sufficient length to go through the fascia and any other sheathing or siding and into the structural member. Upper and lower brackets should be spaced far enough apart to support loads created by the antenna and mast.

### MAST LENGTH

Do not attach any mast over 10 feet in length without using guys in three or four directions.

### ANTENNA LOAD

Any antenna over 2 square feet in size mounted within 10 feet of mast must be guyed.



# COMMERCIAL MOUNTS

## ROOF MOUNT-TRT AG2

The ROHN TRT AG2 is a heavy duty, commercial quality roof mount. Features include:

- 5' total effective height
- Shipped completely knocked-down for easy assembly in remote areas
- Extra length adjustable base feet for wide range of mounting conditions (anchor bolts not included) drilled to accept  $\frac{3}{8}$ " anchors
- Heavy duty steel construction
- Hot Dip Galvanized after fabrication
- 23  $\frac{1}{8}$ " O.D. mast pipe extending approximately 12" above apex
- Ideal mount to include in antenna packages
- UPS shippable



## THE HOUSE BRACKET UNIT POLE MOUNT

The ROHN HBUPMTVRO is an inexpensive alternative to elaborate ground or yard mounts. In just three easy steps, the HBUPMTVRO can be mounted to the side or end of a building, and it can be fastened to the roof with an optional Roof Mounting Kit.

Capable of receiving up to 5" O.D. maximum, optional ROHN TVRO Mounting Poles, and utilizing the ROHN TVRO ground base, your selected antenna will be elevated above common ground mounted interference hazards. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Optional Roof Mounting Kit
- Easy three-step installation
- Model: HBUPMTVRO
- Adjustable from 0"-36" out from wall
- UPS shippable





## THE POLE SUPPORT MOUNT

The ROHN Pole Support Mount (PSM) can be mounted to the side or end of a building in easy one-step installation. Capable of receiving all sizes of the optional ROHN TVRO mounting poles and utilizing the ROHN TVRO ground base, your TVRO antenna will be elevated above common ground mounting hazards like trees, bushes, houses, etc... Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Easy one-step installation
- Easy one-step installation
- Model: PSM
- UPS shippable



## THE POLE WALL MOUNT

The ROHN Pole Wall Mount (PWM) is designed to support most Satellite, PCS, Cellular or Microwave antennas. With the use of 5' - 7' pipe, the ROHN PWM can be located so antenna and electronics can be easily reached and the pipe distance from the wall adjusts as needed. Additional features include:



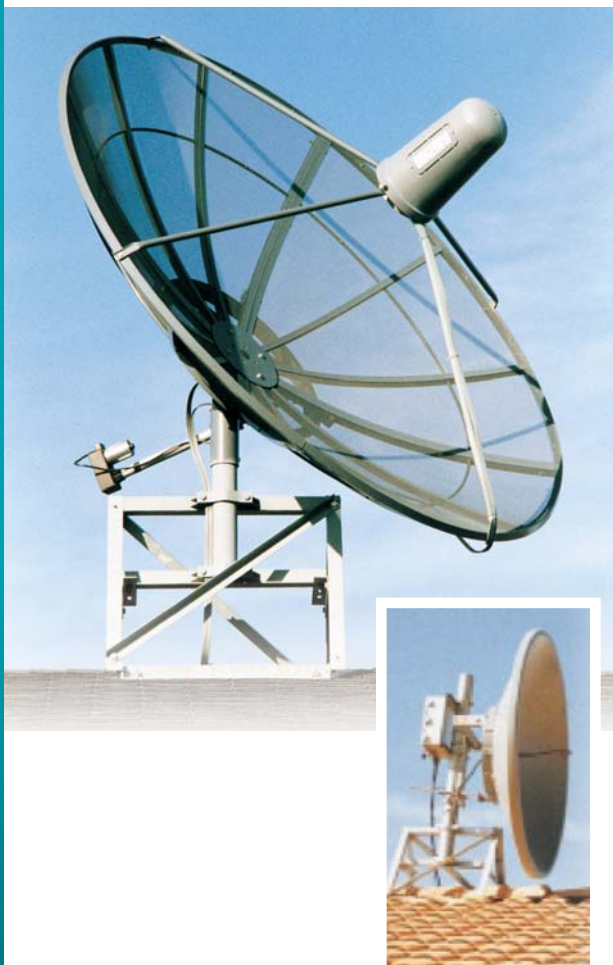
- Hot Dip Galvanized after fabrication
- Accepts up to a 5 1/2" O.D. pipe
- Optional mounting hardware and pipe available
- Ideal for a variety of antennas
- Easy to reach antenna from rooftop
- Model: PWM
- UPS shippable

## WALL MOUNTS

The ROHN Wall Mount (WM212) is designed to support most Satellite, PCS, Cellular, or Microwave type antennas. The ROHN WM212 can be located so antenna and electronics can be easily reached and the pipe distance from the wall adjusts as needed. Additional features include:

- Hot Dip Galvanized after fabrication
- Includes 5' Long x 2" I.D. x 2 1/2" O.D. schedule 40 mounting pipe
- Optional items include installation hardware (ROHN part #HMK18M or B12 stabilizer straps)
- Available without B12 stabilizer straps





## THE SAW HORSE ROOF MOUNT

ROHN's Saw Horse Roof Mounts (SHRM) allow the placement of antennas on roof peaks or flat roofs, allowing them to be above interference created by close buildings and trees. At the same time, it frees up yard space, eliminates some zoning problems and increases security from theft and vandalism. The SHRM will adjust from a flat roof to any pitched roof up to 12"/12". And installation is easy because there's no need for concrete or burying cable. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Constructed of heavy angle material
- Easy one-step installation
- Model: SHRM
- UPS shippable
- Mounting pipe and installation hardware are optional

## THE SAW HORSE ROOF MOUNT

ROHN's Universal Roof Mount (URM) is capable of supporting most TVRO, PCS Cellular and Microwave antennas. The URM adapts to various roof pitches and the fully adjustable rear-leg allows for use on a flat or up to a 12"/12" pitched roof. Installation is easy because of the quick adaptability, plus there's no need for concrete or burying cable. At the same time, the URM frees up yard space, eliminates some zoning problems and increases security from theft and vandalism. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS Cellular and Microwave antennas
- Easy one-step installation
- Model: URM
- UPS shippable
- Mounting pipe and installation hardware are optional



# RESIDENTIAL MOUNTS

## THE DBS TOWER MOUNT

The DBS Tower Mount is perfect for today's new generation of reception dishes. Made for 25G towers, it's one of the latest additions to the complete line of ROHN antenna support products. Features include:

- Goes together quickly
- Minimum of bolted connections
- Angle steel cross members connect directly to the tower legs with easy to use U-bolts
- Available in Hot Dip Galvanized or pre-galvanized finish
- UPS shippable
- Disassembled, the lightweight mount stores in very small spaces with angle members nested
- Supports almost all major DBS antenna brands



## THE GABLE END MOUNT

ROHN's new Gable End Mount is now even more versatile. It's designed to provide excellent support for off-air or wireless cable antennas, utilizing mast clamps capable of supporting up to 1 1/2" masts (optional mast sizes are available from ROHN). The GEM is easily installed on the gable end of a house with no roof penetration required.



## GABLE END MOUNT FEATURES:

- Galvanized Finish
- Constructed with a bottom support angle adjustable from 40" - 60"
- Versatile enough to install to almost any pitch roof
- Design has four attachment points on the fascia board
- Mast brackets designed for 4" clearance from the fascia
- Packaged in one box for convenience
- GEM (part number: GEM4060) Contains: 1 VWM4 (two brackets), 2 adjustable angles, 1 hardware package, lag screws

## THE GABLE POLE BRACKET

The ROHN Gable Pole Bracket is another inexpensive solution to supporting an elevated satellite antenna. It can be installed using any ROHN HMK, hardware mounting kit. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Constructed of high strength steel
- Adaptable to all gable ends
- UPS Shippable - 17 lb.
- Easy to install/Approx. 4' long
- Holds up to 5" standard pipe
- Model: GPB4







## HEAVY DUTY ALL STEEL TRI-MAST

ROHN's Trimast is ideal for conventional UHF-VHF or wireless cable antennas. Available in overall heights of 5' (part no. TM60) and 10' (part no. TM120), ROHN Trimasts can be installed to roof slope or peak.

- "Socket-lock" clamping device for fast and secure installation
- Features bolt-on removable swivel feet
- Includes pitch pads and lag screws
- Galvanized inside and out for lasting, durable finish
- Double base swivel feet help prevent twisting of the mast
- Conforms to most any roof slope



## TRIPOD ROOF TOWERS

ROHN Tripod Roof Towers feature universal mast clamp and support bracket. They are compact folding for efficient storage and easy to install. Additional features include:

- Most TRT Snap-outs fold tightly for convenient storage
- Universal mast clamp capable of mounting up to 1 3/4" diameter mast
- Socket lock to hold the tightening bolt in place without turning
- Bolt-on swivel feet adjust to most any pitch roof
- Made of 1 1/4" tubular legs
- Installation is simple and fast by using lag screws in the base feet - securely anchoring the tower for long, trouble free service
- Lower mast support bracket
- Galvanized for long lasting corrosion protection
- Prevailing torque lock-nut is used on bolt-on feet
- Swing-Away mast support provides for quick and easy orientation before locking antenna in position
- Support has 3 set screws for clamping mast



## QUADPOD ROOF MOUNTS

With ROHN Quadpod Roof Mounts, the mast pipe stays vertical whether it's installed on the sloped, peak, or flat portion of a roof. The extra leg pivots in the collar to allow for upright installation on the sloped part of a roof. The additional support of the leg also adds strength to the installation. ROHN Quadpods are ideal for wireless cable or off air channel antennas. Features include:

- Bolt-on swivel feet
- Folds down for convenient shipping and storage
- Pitch pads and lag screws included
- Galvanized and durable



## TELESCOPING MASTS

ROHN Telescoping Masts are designed for use as guyed or bracketed installations. All ROHN Telescoping Masts are galvanized and come assembled with hardware. The unique ROHN Rolled Edge Guy Rings and Clamps are already installed and erection is simply attaching guys or brackets, extending the sections, inserting the locking cotter pins, rotating the tubes to a locked position and tightening the clamps.

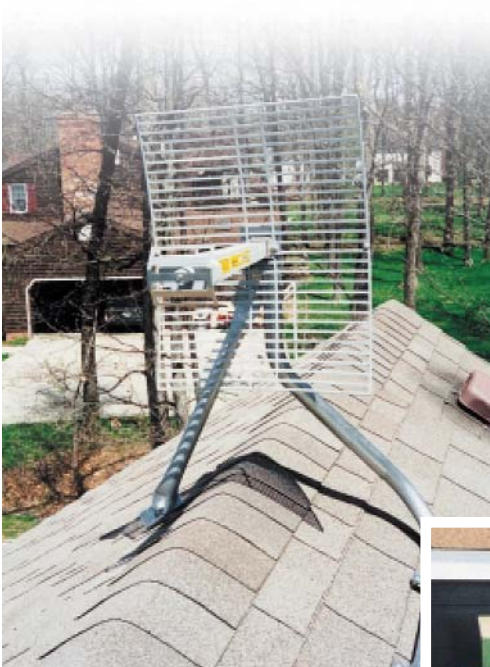
The unique ROHN design features interior tube flanging combined with a double crimped exterior tube to produce a stronger and more stable joint than most common masts. Disassembly is possible by pulling each section out through the bottom. Each section also extends deeper into the lower tubes than most designs, adding still further to the stability of the mast. Additional features include:

- 1 1/4" top section can accept many popular wireless cable, off air and other small antennas
- Exclusive ROHN Rolled Edge Guy Ring rotates to any direction on the mast and with five guy holes allows guying in nearly any direction
- Masts can be handled by one person
- Bracketed masts are ideal for limited space sites
- Slim design makes the ROHN mast unobtrusive in most installations



## THE SNAKE MOUNT®

The Snake Mount is designed to adapt. It will work as a universal wall mount, a pitched roof mount, or a peak roof mount for wireless cable, DBS and UHF/UVF antennas. The snake mount comes in two sizes, small and large. The Small Snake Mount (part number: SM125) has a 1 1/4" O.D. mast capable of supporting an antenna of 2 square feet projected area or less. The Large Snake Mount (part number: SM238) has a 2 3/8" O.D. mast capable of supporting up to a 1 meter antenna.



### ADDITIONAL FEATURES OF THE ROHN SNAKE MOUNT®:

- Available in 11.4 h O.D. tubing or 23.8 h tubing (2 1/4" compatible)
- Universal mount for roof or wall installation
- Conforms to any stud spacing requirements
- Galvanized for ultimate rust protection
- Includes lag screws
- Low cost, lightweight, and UPS shippable
- Sleek, modern design
- Patented design





## THE UNIVERSAL ONE-LEGGED MOUNT

The Universal One-Legged Mount may be the one and only mount that can be installed on any part of any building. This mount is designed for virtually all types of antennas - home, TV, MMDS, DBS and more (part number: 1LG). An optional chimney mounting kit will allow the One-Legged Mount to be installed on masonry chimneys (part number: 1LGCM). The One-Legged Mount can solve any mounting need.

Features include:

- A 1 1/4" O.D. mounting pipe
- Galvanized for ultimate rust protection
- Includes lag screws
- Optional chimney mounting kit available
- Low cost, low profile, lightweight, and UPS shippable
- Can be installed on any roof, wall or gable end



## WALL MOUNTS

ROHN Wall Mounts for masonry, wood, metal and most other walls are designed to provide versatility. With six lengths, two widths and the ability to support up to a 2<sup>3</sup>/<sub>4</sub>" O.D. mast, these mounts can be the perfect answer for nearly any setting. The mounts can be installed quickly and with minimum effort using up to 5/16" lag bolts on nearly any surface.\*

All mounts are galvanized for durability, and constructed of lightweight, high strength ribbed flat stock steel. Masts are held in place with a unique "Anti-Twist" locking clamp to help ensure steady reception.

Additional Features include:

- Will extend beyond most residential roof overhangs
- Available in 4", 8", 12", 18", 24", and 30" stand-offs
- Available as single or double brackets
- UPS shippable

Upper brackets consist of horizontal members only. Lower brackets consist of horizontal members and one angled member for vertical support.

*\* Lag screws or attachment bolts must be ordered separately.*





# STEEL TUBING

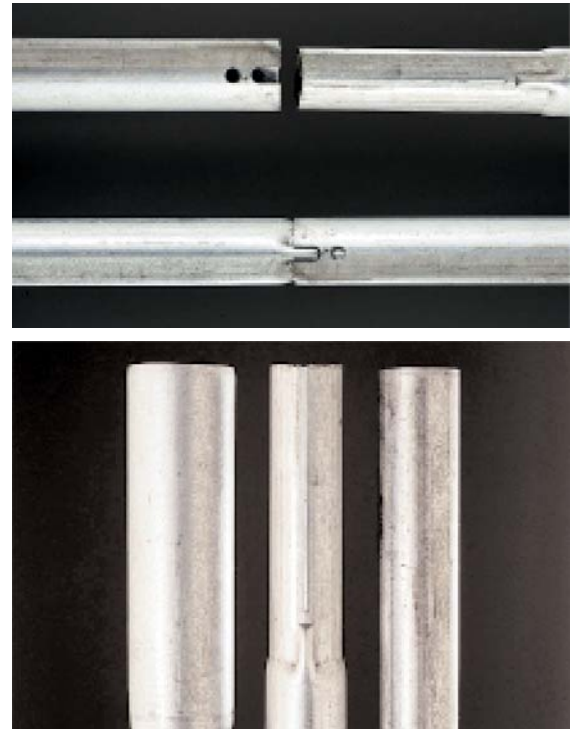
ROHN Steel Tubing comes in a variety of end types, finishes, gauges and lengths. So whatever your needs, we have the steel tubing to fit every job.

## END TYPES

**Swaged** - ROHN swaged tubing with locking joint is available in two finishes and four gauges. When tubing is swaged, the metal is compressed and made thicker so the joint is stronger than the original material. In fact, so strong that 18 ga. swaged tubing has the strength of most competitive 16 ga. tubing. Swaging also eliminates the "joint bulge" common with expanded tubing.

**Expanded** - A tube with an expanded end along with a tube with a plain end allows the tubes to be stacked.

**Plain End** - Tubes with a plain end cannot be stacked if they are used directly in a tripod, wall mount, etc.



## FINISHES

**Hot Dip Galvanized** - This tubing is fabricated from high strength steel - then immersed in molten zinc giving all surfaces, including the interior, an even coating of zinc for maximum corrosion protection. No seams, holes or edges are coated.

**Pre-Galvanized** - This tubing is made from a coil of steel which is galvanized at the steel mill, cut into strips, and then formed into a piece of tubing. Where the tubing is welded, zinc is sprayed over the weld to give it protection at that point. It does, however, have a slightly uncoated seam on the inside and ends.



Galvanized



Pre-Galvanized

## GAUGES

ROHN offers steel tubing in 16, 18, and 20 gauges.

## LENGTHS

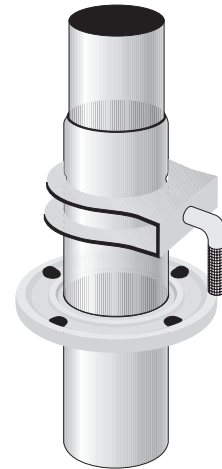
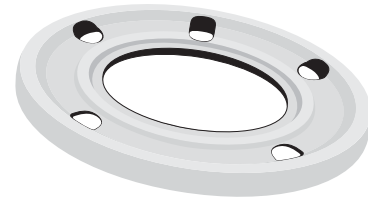
Steel tubing lengths are available from 2 1/2" to 10'.

Blank



## TELESCOPING MASTS

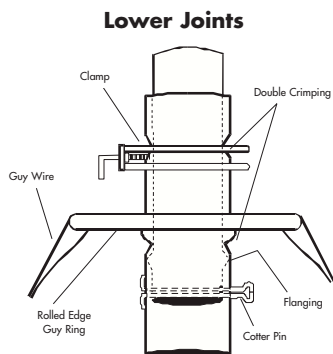
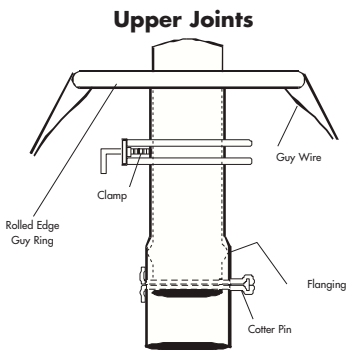
For Use As Guyed or Bracketed Installations



The exclusive ROHN Rolled Edge Guy Ring rotates to any direction on the mast, and with five guy holes, allows guying in nearly any direction.

**Details**

**Specifications**



Part Number	Bottom Section	Top Section	Mid Sections	Bottom Section O.D.	Top Section O.D.	Weight
H20	18 ga.	16 ga.	18 ga.	1-1/2"	1-1/4"	17
H30	18 ga.	16 ga.	18 ga.	1-3/4"	1-1/4"	26
H40	18 ga.	16 ga.	18 ga.	2"	1-1/4"	35
H50	18 ga.	16 ga.	18 ga.	2-1/4"	1-1/4"	46
H70	16 ga.	16 ga.	18 ga.	2-3/4"	1-1/4"	74
<hr/>						
E20	20 ga.	18 ga.	20 ga.	1-1/2"	1-1/4"	14
E30	20 ga.	18 ga.	20 ga.	1-3/4"	1-1/4"	22
E40	20 ga.	18 ga.	20 ga.	2"	1-1/4"	30
E50	18 ga.	18 ga.	20 ga.	2-1/4"	1-1/4"	39

Last two digits in the part number references the total length of all tubing in the mast. Due to overlap in joints actual height above base will be less.

Masts have all hardware except base.

All installations must be bracketed or guyed. Brackets, guys and base are not included and should be ordered separately as needed for each type of installation.

Extend each section carefully, taking extra caution to prevent sections from pulling apart.

Do not extend mast horizontally and then rotate up from hinged base.

Sections can be disassembled through the lower end of the mast.

Telescoping masts are not recommended for commercial, ham, CB or beam antennas.

Refer to ROHN Price List for current prices.

See ROHN Safety Brochure 93-2754C for safety information. This brochure is available free from ROHN.



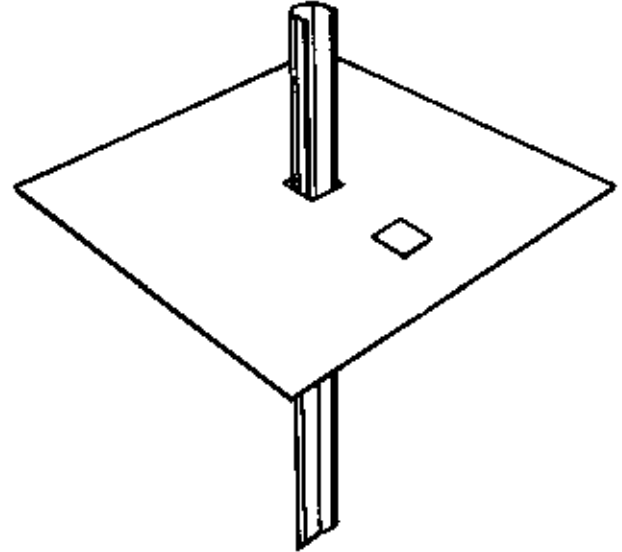


## THE GTMBL BASE PLATE **For Mast Installations**

The GTMBL Base Plate features:

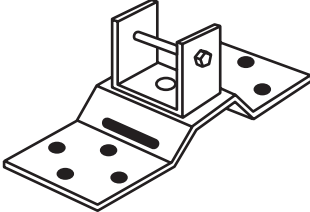
- More surface area to help prevent sinking
- A longer stake for a more stable installation (especially in areas with poor soils)
- Two locations for mast placement including one that hugs the wall
- Long lasting galvanized rust prevention

ROHN is now manufacturing a telescoping mast base plate called the GTMBL Base Plate. The GTMBL Base Plate is a full 10 inches square and features two locations for the stake and telescoping mast. The first location is the center and the second location is two inches from one side for installations in which the mast needs to be close to the wall. The drive stake is a full 18 inches in length.



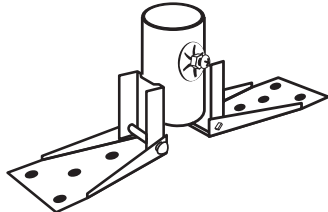
The GTMBL Base Plate is now available for immediate shipment::

<b>Part Number</b>	<b>Description</b>
GTMBL	Base Plate
GTMBLX	Base Plate Individually Boxed

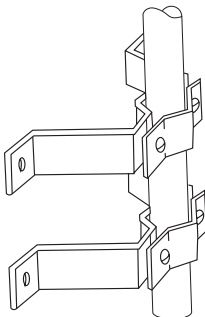
**Universal Mast Base**  
Universal mast base can be used anywhere! Slip bolt through already drilled hole in all ROHN telescoping masts and fasten to U-piece. Can be rotated and mast can be raised from any angle. Entire base is galvanized for the finest weather protection available.

Part No.	WPSC	SC
2UMBX*	40 lbs.	25



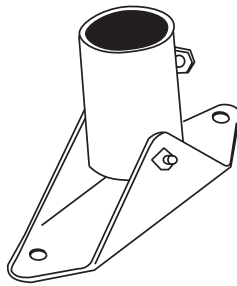
**Universal Ridge Mounts**  
Completely assembled for quick and easy flat roof or peaked roof installation. Allows tall masts to be swung up along the ridge of the roof.

Part No.	Description	WPSC	SC
UM20	Holds masts to 1-1/2" dia.	32 lbs.	25
UM30	Holds masts to 1-3/4" dia.	34 lbs.	25
UM40	Holds masts to 2" dia.	35 lbs.	25
UM50	Holds masts to 2-1/4" dia.	36 lbs.	25



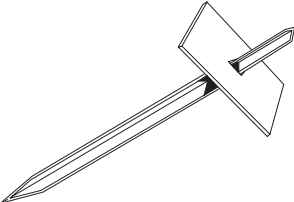
**Wall Mounts**  
VWM4 and VWM4X are economy mounts made of heavy gauge zinc plated steel for close mounting (4" clearance). Installation hardware included. WM4 and WM4X are extra heavy deluxe mounts made of heavy gauge, galvanized steel (4" clearance). Packed with carriage bolts and 1-3/4" lag screws.

Part No.	Description	WPSC	SC
VWM4	Holds 1-1/4"-1-3/4" masts	43 lbs.	36
VWM4X*	Holds 1-1/4"-1-3/4" masts	34 lbs.	25
WM4	Holds 1-1/4"-2-1/4" masts	34 lbs.	20
WM4X*	Holds 1-1/4"-2-1/4" masts	47 lbs.	25



**Economy Angle Base Mount**  
Clamp type base mount constructed of heavy gauge galvanized steel, and designed for the 5' to 10' installation job. Completely assembled to save time and money.

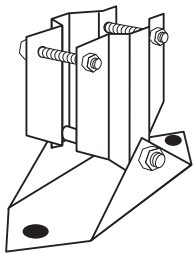
Part No.	WPSC	SC
SB125	42 lbs.	100



**Ground Mounts**  
Sturdy, galvanized, drive-in type mount for all ROHN telescoping masts and 1-1/4" tubing and 1-1/2" tubing.

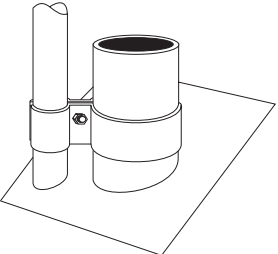
Part No.	WPSC	SC
GTMB	24 lbs.	12
GTMBX*	20 lbs.	10
GTMBL	45 lbs.	25

(6" x 15" plate for poor soil conditions)



**Universal Roof Mount**  
Features galvanized finish and heavy duty steel throughout. Completely assembled. Holds all ROHN telescoping masts, 1-1/4" tubing and 1-1/2" tubing.

Part No.	WPSC	SC
ETMB	13 lbs.	12



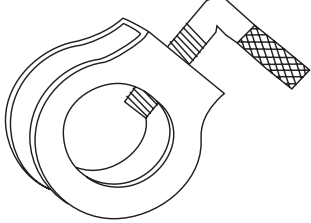
**Vent Mounts**  
For mounting TV antenna on vents up to 2-1/4" diameter. Made of extra heavy gauge steel, galvanized. Accepts masts up to 1-1/4" diameter. Complete with necessary hardware.

Part No.	Description	WPSC	SC
VTMT	Vent Mount	35	25

\* "X" in part number designates item is skin packed

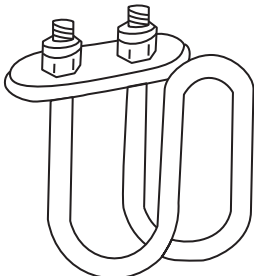
WPSC = Weight Per Standard Carton  
SC = Standard Carton (Master Carton)





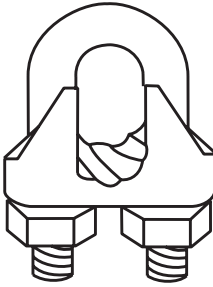
**Mast Clamps**  
Galvanized mast clamps available in a wide variety of sizes to fit every mast. Comes complete with L-bolt and nut.

Part No.	Description	WPSC	SC
C1A	For 1-1/4" masts	13 lbs.	100
C2A	For 1-1/2" masts	13 lbs.	100
C3A	For 1-3/4" masts	13 lbs.	100
C4A	For 2" masts	13 lbs.	100
C5A	For 2-1/4" masts	13 lbs.	100



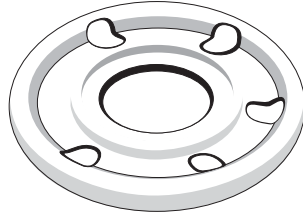
Complete clamp assembly to fasten cross bars to 1-1/4" mast.

Part No.	WPSC	SC
TB5125BA	54 lbs.	100



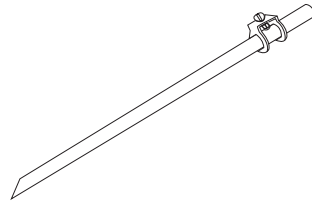
**Cable Clamps**  
Heavy gauge steel. Fits 1/8" to 3/16" guy wire.

Part No.	Description	WPSC	SC
1/8CCM	1/8" small size-electro-galvanized	3 lbs.	100
3/16CCM	3/16" standard size-hot dip galvanized	5 lbs.	100




**Rolled Edge Guy Rings**

Part No.	Description	WPSC	SC
GR1	For 1-1/4" masts	17 lbs.	100
GR2	For 1-1/2" masts	17 lbs.	100
GR3	For 1-3/4" masts	17 lbs.	100
GR4	For 2" masts	20 lbs.	100
GR5	For 2-1/4" masts	20 lbs.	100



**Ground Rods**  
Heavy gauge steel rod with sharp point for easy installation. Ground wire clamp assembled on rod.

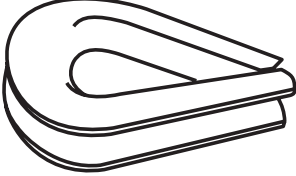

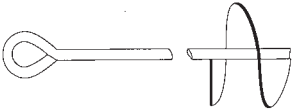
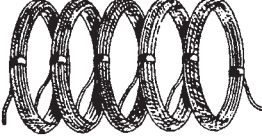
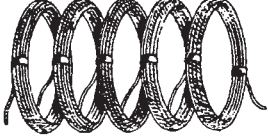

Part No.	Description	WPSC	SC
GR384	4', 3/8" dia. copper plated	42 lbs.	25
GR384Z	4', 3/8" dia. galvanized	42 lbs.	25
GR386	6', 3/8" dia. copper plated	53 lbs.	25
GR386Z	6', 3/8" dia. galvanized	53 lbs.	25



**Lag Screws**  
Steel, zinc plated lag screws especially made for TV antenna installations and brackets.

Part No.	Description	WPSC	SC
2550	1/4" x 1-1/2" long	2 lbs.	100
8061	5/16" x 1-3/4" long	3-1/2 lbs.	100
220352	1/4" x 2" Type A wood screw with hex washer head	10 lbs.	100

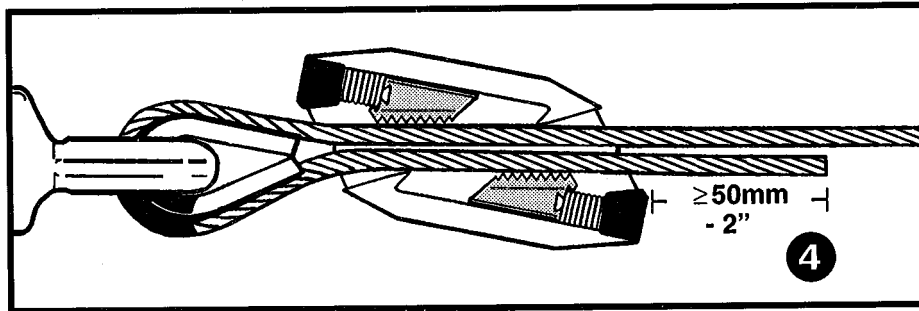
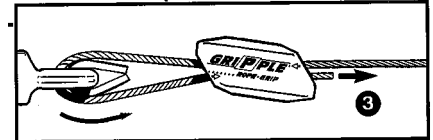
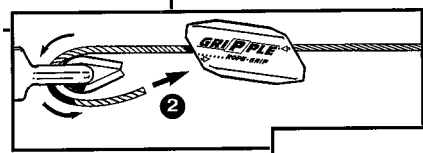
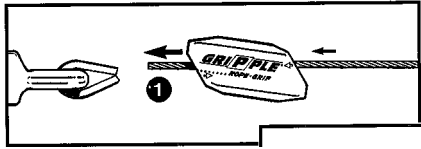


	<p><b>Thimble</b> Prevents guy wire from fraying and loosening.</p> <table border="0"> <thead> <tr> <th>Part No.</th> <th>Description</th> <th>WPSC</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>1/4TH</td> <td>For all sizes wire up to 1/4"</td> <td>4 lbs.</td> <td>100</td> </tr> </tbody> </table>	Part No.	Description	WPSC	SC	1/4TH	For all sizes wire up to 1/4"	4 lbs.	100				
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	<p><b>1/4" Turnbuckle</b> Turnbuckle, 1-1/4" x 4" forged eye to eye. Ideal for guyed telescoping masts and tubing.</p> <table border="0"> <thead> <tr> <th>Part No.</th> <th>Description</th> <th>WPSC</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>1/4TBE&amp;E</td> <td>1/4" x 4" Turnbuckle</td> <td>23 lbs.</td> <td>100</td> </tr> </tbody> </table>	Part No.	Description	WPSC	SC	1/4TBE&E	1/4" x 4" Turnbuckle	23 lbs.	100				
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1/4TBE&E	1/4" x 4" Turnbuckle	23 lbs.	100										
	<p><b>Screw Anchor</b> Hot dip galvanized screw anchor ideal for guyed telescoping masts and tubing.</p> <table border="0"> <thead> <tr> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>GAS430</td> <td>30" long, 1/2" dia. rod 4" dia. helix, 3lbs. each. Only bulk available</td> </tr> </tbody> </table>	Part No.	Description	GAS430	30" long, 1/2" dia. rod 4" dia. helix, 3lbs. each. Only bulk available								
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GAS430	30" long, 1/2" dia. rod 4" dia. helix, 3lbs. each. Only bulk available												
	<p><b>Galvanized Guy Wire</b> Heavy galvanized steel guy wire. Rust proof. Non-tangling 20 50' interconnected coils. Packaged 1000' per box.</p> <table border="0"> <thead> <tr> <th>Part No.</th> <th>Description</th> <th>WPSC</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>618</td> <td>6 strand, 18 gauge</td> <td>32 lbs.</td> <td>1000 ft.</td> </tr> <tr> <td>620</td> <td>6 strand, 20 gauge</td> <td>19 lbs.</td> <td>1000 ft.</td> </tr> </tbody> </table>	Part No.	Description	WPSC	SC	618	6 strand, 18 gauge	32 lbs.	1000 ft.	620	6 strand, 20 gauge	19 lbs.	1000 ft.
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620	6 strand, 20 gauge	19 lbs.	1000 ft.										
	<p><b>Clear Coated Guy Wire</b> Galvanized wire in a clear vinyl coating. Non-tangling 20 50' interconnected coils. Packaged 1000' per box.</p> <table border="0"> <thead> <tr> <th>Part No.</th> <th>Description</th> <th>WPSC</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>1/8HSCC</td> <td>6 strand, 20 gauge</td> <td>29 lbs.</td> <td>1000 ft.</td> </tr> </tbody> </table>	Part No.	Description	WPSC	SC	1/8HSCC	6 strand, 20 gauge	29 lbs.	1000 ft.				
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1/8HSCC	6 strand, 20 gauge	29 lbs.	1000 ft.										
	<p><b>Ground Wire</b> Uncoated aluminum ground wire grounds mast from lightning and electrical disturbance.</p> <table border="0"> <thead> <tr> <th>Part No.</th> <th>Description</th> <th>WPSC</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>AGW8</td> <td>No. 8 solid wire</td> <td>16 lbs.</td> <td>1000 ft.</td> </tr> </tbody> </table>	Part No.	Description	WPSC	SC	AGW8	No. 8 solid wire	16 lbs.	1000 ft.				
Part No.	Description	WPSC	SC										
AGW8	No. 8 solid wire	16 lbs.	1000 ft.										



**1...2...3...4...5...6...7...8...9...10 SECONDS!**

**"There is no quicker, more cost effective, and easier way to terminate guy wire."**



**ROHN Gripper are available for the following guy wire:**

- 620, 618, and 1/8HSCC — for guyed telescoping masts and tubing
- 3/16EHS and 1/4EHS — 3/16" and 1/4" guy wire

The Gripper replaces the need for a turnbuckle and cable clamp. (It is not designed to suspend or lift persons).

Properly installed Gripper Rope Gripps provide approximately 85% of the nominal breaking strength of the steel cable to which they are applied. To determine the actual holding strength of the Gripper, a pull test must be made. This will determine if the Gripper is suitable for your application. Use appropriate safety factor when calculating working load limit. Gripper Rope Gripps are not to be used in a load lifting capacity.

Part #	ROHN Guy Wire	Bag Quantity
<b>61820GRPL</b>	<b>620 618 1/8HSCC</b>	<b>10</b>
<b>3/16Gripper</b>	<b>3/16EHS</b>	<b>8</b>
<b>1/4Gripper</b>	<b>1/4EHS</b>	<b>8</b>

Apply up to 600 lb. tension using the long-handled Gripper tool.  
Part # Gripper









NOTE

- IT IS THE PURCHASER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION AND BUILDING STRUCTURE ARE ABLE TO WITHSTAND ALL LOADS IMPOSED BY HIS ANTENNA SYSTEM. INSTALLATIONS SHOULD BE GROUNDED BY THE INSTALLER TO MEET ALL APPLICABLE CODES.
- INSPECT THE MOUNT AND ANTENNA EVERY 5 MONTHS.
- OPTIONAL ROHN HARDWARE MOUNTING KITS MAY BE PURCHASED SEPARATELY FROM ROHN. OPTIONAL INSIDE MOUNTING ANGLES MAY BE PURCHASED SEPARATELY FROM ROHN. (PART NO.: F177)
- ASSEMBLY SHOWN DOES NOT INCLUDE THE POLE, WHICH MAY BE PURCHASED SEPARATELY FROM ROHN. IF THE POLE IS TO BE INSTALLED PLUMB, THE LOWER MOUNTING ANGLE SHOULD BE MOVED 2" MORE TO THE LEFT, THAN THE TOP MOUNTING ANGLE, PRIOR TO ATTACHING THE MOUNT TO THE BUILDING.
- IF THE POLE IS MOUNTED 15-3/4" FROM THE BUILDING, USE THE EXTRA 1/2" X 1-1/2" BOLT ASSEMBLY TO FASTEN THE DIAGONAL BRACE TO THE LOWER MOUNTING ANGLE NUTS ARE INCLUDED WITH THE BOLT ASSEMBLIES AND ARE TO BE INSTALLED WITH THE CONCAVE SURFACE AGAINST THE STANDARD NUT.
- TO OBTAIN MAXIMUM CAPACITY OF THE LHM, BOLTS SHOULD BE TIGHTENED IN CORNER TO CORNER.
- ALL PARTS ARE HOT DIP GALVANIZED AFTER FABRICATION.
- REFER TO ENGINEERING REPORT B702 FOR PW ENGINEERING DATA.
- ANGLES MUST BE POSITIONED AS SHOWN IN DETAILS A, B, AND C FOR INSTALLATION.

BILL OF MATERIAL	
QTY	PART NO DESCRIPTION
2	F177 MOUNTING ANGLE
2	F178 PIPE MOUNTING ANGLE
2	K11226 DIAGONAL SUPPORT ANGLE
1	F179 DIAGONAL BRACE ANGLE
2	FY15 SADDLE CLAMP
1	F1545 HARDWARE KIT
HARDWARE KIT CONTENTS	
QTY	PART NO DESCRIPTION
B	2100186 1/2" X 1-1/2" BOLT
B	230013 1/2" HEX NUT
12	230013 1/2" HEX NUT
12	230013 1/2" PAL NUT
B	2500359 1/2" FLAT WASHER

**UNR-ROHN**  
Division of UNR, Inc.

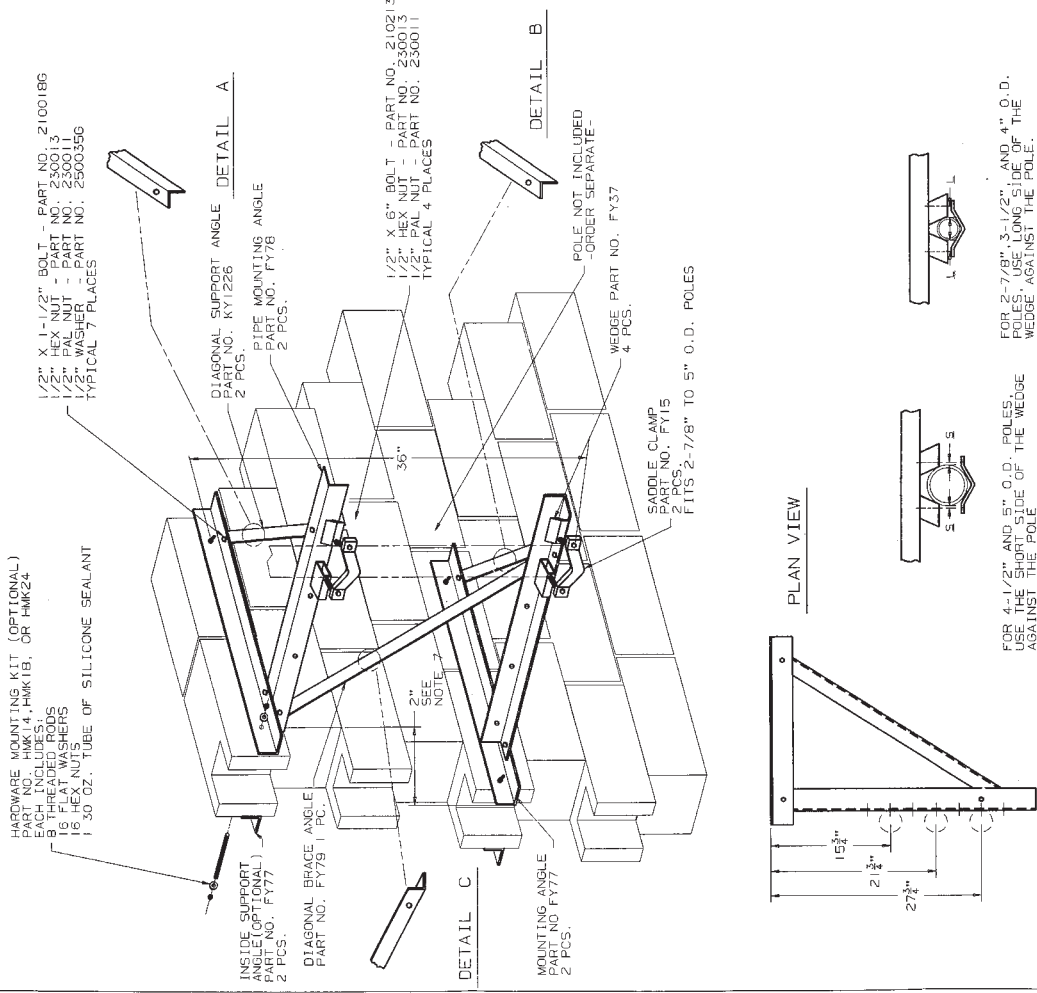
THIS POLE WALL MOUNT - PWM

UNR-ROHN POLYESTER FINISH, CONFORMS TO ASTM A653 TYPE 55. GALVANNEAL FINISH TO MEET OR EXCEEDS ASTM A653 TYPE 55. GALVANNEAL FINISH TO MEET OR EXCEEDS ASTM A653 TYPE 55. GALVANNEAL FINISH TO MEET OR EXCEEDS ASTM A653 TYPE 55.

Drawn by: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_  
Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Ordering Dept. GAT1609

Ordering Number: **D8500651R8**





POLE SUPPORT MOUNT ASSEMBLY - PSM

BILL OF MATERIALS

ITEM	QUAN.	PART NO.	DESCRIPTION	DRAWING NO.
1	1	KY1224	HOUSE MOUNTING ANGLE	B850520
2	1	KY1225	PIPE MOUNTING ANGLE	B850521
3	1	KY1226	DIAGONAL SUPPORT ANGLE	B850522
4	1	FY15	SADDLE CLAMP	D850019
5	2	2102136A	1/2 X 6" BOLT ASSY (FULLY THREADED)	N/A
6	3	2100176A	1/2 X 1-1/4" BOLT ASSY	C770404
7	2	FY37	WEDGE	D850019

GENERAL NOTES

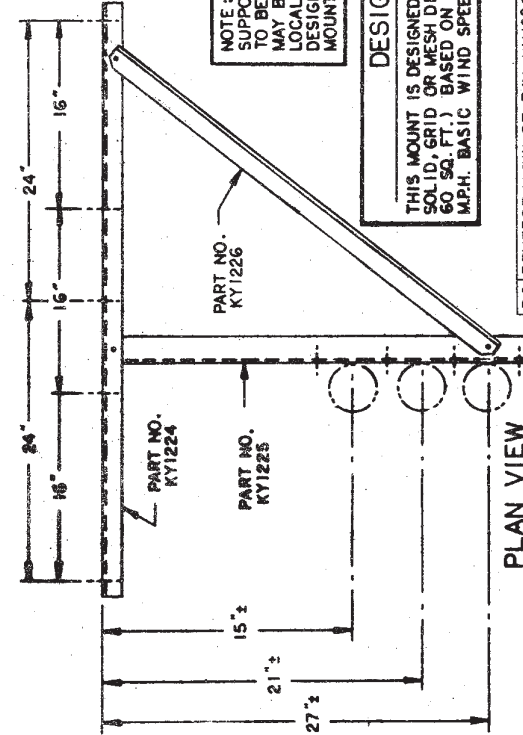
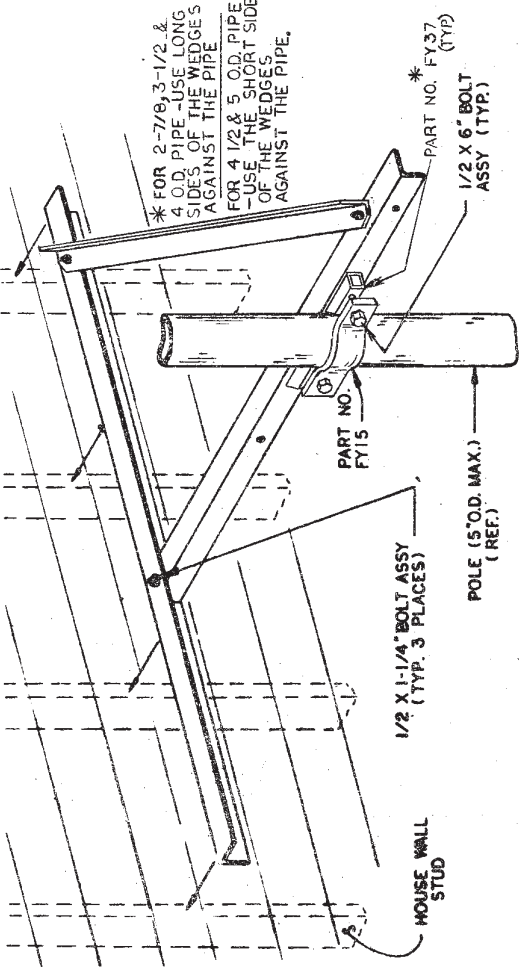
1. ALL NUTS ARE PROVIDED WITH ALL BOLT ASSEMBLIES.
2. ALL SEALS AND O-RINGS REQUIRED TO BE SUPPLIED BY OTHERS.
3. ALL FABRICATION DRAWINGS REFERENCED ARE FOR SHOP USE ONLY.
4. TO INSURE SAFETY, NO POLE SUPPORT MOUNT INSTALLATION SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
5. IT IS THE PURCHASER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY HIS MOUNT AND ANTENNA.
6. LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE AN ARCHITECT OR STRUCTURAL ENGINEER APPROVAL PRIOR TO INSTALLATION.
7. ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS. (5) 11/16" DIA. HOLES ARE PROVIDED TO ACCOMMODATE STUD SPACING OF 16" OR 24".
8. INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.
9. ALL ANTENNA INSTALLATIONS SHOULD BE GROUNDED, BY THE INSTALLER, TO MEET ALL APPLICABLE CODES.

RI1 ADDED TWO FY37 WEDGES  
 No. 10-08-85 GPW  
 Revision Description Date By

UNR-Rohn

Title TVRO POLE SUPPORT MOUNT ASSY  
 (FOR 5.00" O.D. POLE MAX.)

Scale NONE  
 Drawn by GPW 05-16-85  
 Checked by [Signature] 5-17-85  
 Approved by Engineering [Signature] 5-20-85  
 Approved by Production [Signature]  
 Tolerances Decimals Fractions Angles Weight  
 Material Finish  
 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.  
 File Number  
 Date 6-14-85  
 Drawing Number B850530 R2



NOTE: ASSEMBLY SHOWN DOES NOT INCLUDE POLE, WHICH MUST BE ORDERED SEPARATELY.

NOTE: ALL CONNECTIONS OF POLE SUPPORT MOUNT TO BUILDING ARE TO BE SUPPLIED BY OTHERS. IT MAY BE NECESSARY TO ENGAGE A LOCAL PROFESSIONAL ENGINEER TO DESIGN INTERFACE OF POLE SUPPORT MOUNT TO STRUCTURE.

DESIGN NOTE  
 THIS MOUNT IS DESIGNED TO SUPPORT A MAX. 8" DIA. SOLID, GRID OR MESH DISH (EFFECTIVE PROJ. AREA = 60 SQ. FT.) BASED ON WIND LOAD OF A.H.S.1 (70 MPH. BASIC WIND SPEED) ASB.1, EXPOSURE "B".

R2 REVERSE VIEW OF P/N KY1226 5-15-87 E.C.



1/2" X 1" BOLT PART NO 2100736  
1/2" HEX NUT PART NO 230013  
1/2" PALNUT PART NO 210011

1/2" X 1-1/2" BOLT PART NO 2100186  
1/2" HEX NUT PART NO 230013  
1/2" PALNUT PART NO 230011

1/2" X 1-1/2" BOLT WITH NUT,  
PALNUT, AND 2 WASHERS  
(PLACE WASHERS UNDER  
BOLT HEAD AND NUT)

PART NO FY34  
4 REQ'D

PART NO FY37  
4 REQ'D

PART NO FY36  
2 REQ'D

9/16" X 1" SLOT (TYPICAL)

PART NO FY35  
2 REQ'D

PART NO FY15  
2 REQ'D  
(FITS 2-7/8" TO 5" O.D. PIPE)

PART NO FY35  
2 REQ'D

28"

26"

28"

24"

16"

FOR 4-1/2" AND 5" O.D. PIPE USE THE  
SHORT SIDES OF WEDGES AGAINST  
THE PIPE.

FOR 2-7/8", 3-1/2", AND 4" O.D. PIPE  
USE THE LONG SIDES OF WEDGES  
AGAINST THE PIPE.

TYPICAL PALNUT INSTALLATION  
INSTALL WITH OPEN SIDE AWAY  
FROM HEX NUT.

PIPE NOT INCLUDED  
SEE CHART FOR PIPE  
SIZE OPTIONS

SEAL AROUND  
BOLTS WITH  
SILICONE RUBBER  
SEALANT

HEX NUT  
PALNUT

RAFTER TIE (BY OTHERS)

OPTIONAL SEE HARDWARE MOUNTING KIT

THREADED ROD  
HORZ. BRACING  
FLAT WASHER

QTY	PART NO.	DESCRIPTION
1	FY313	HARDWARE PACKAGE
2	FY315	BOTTOM MOUNT
4	FY34	LEG
4	FY37	WEDGE
2	FY35	LEG BRACE
1	FY33	BOTTOM PIPE SUPPORT
1	FY34	TOP PIPE SUPPORT
2	FY36	BRACE
2	FY15	SADDLE CLAMP

HARDWARE PACKAGE CONTENTS

8	2100736	BOLT 1/2" X 1"
8	2100186	BOLT 1/2" X 1-1/2"
4	2102136	BOLT 1/2" X 6"
20	230011	NUT 1/2" PAL NUT
20	230013	NUT 1/2" HEAVY HEX
4	2500016	WASHER 9/16" SAE FLAT

OPTIONAL PIPE NOT INCLUDED

P2530	PIPE 2-1/2" (2-7/8" O.D.) X 30' LONG
P330	PIPE 3 (3-1/2" O.D.) X 30' LONG
P3530	PIPE 3-1/2" (4" O.D.) X 30' LONG
P430	PIPE 4" (4-1/2" O.D.) X 30' LONG

BILL OF MATERIAL

SHRM CONTENTS

UNR-Rohn  
Division of GTE

SHRM - SAW HORSE ROOF MOUNT - TVRO

DATE: 8-15-87

DB50059

NOTES

- SHRM MOUNT CAN BE USED ON A FLAT ROOF OR ON A ROOF PEAK, UP TO 45° MAXIMUM PITCH.
- SHRM MOUNT CAN BE USED WITH 2-7/8" TO 5" O.D. PIPE OR TUBE. (30" MAX LENGTH) PER DISH BRACKET REQUIREMENTS. ORDER SEPARATELY - SEE BILL OF MATERIAL.
- BOTTOM OF MOUNT PIVOTS TO MATCH ROOF PITCH.
- ROOF MUST BE REINFORCED BEFORE INSTALLING MOUNT - SEE DRAWING C850019.
- FASTEN MOUNT TO ROOF WITH A HARDWARE MOUNTING KIT, PART NO HWK14, DRAWING DB50018 - ORDER SEPARATELY.
- ALL HARDWARE AND PARTS ARE HOT DIP GALVANIZED AFTER FABRICATION.
- THIS ANTENNA MOUNT IS DESIGNED IN ACCORDANCE WITH A.N.S.I. A581. MIN DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES' EXPOSURE B, 70 M.P.H., FOR A MAX. 10' DIA. SOLID, GRID, OR MESH DISH WITH MOUNTING PIPE EXTENDED MAX. OF 1-6 ABOVE TOP OF MOUNT (MAX. EFFECTIVE PROJ. AREA = 94 SQ. FT.).
- IT IS THE PURCHASER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY THIS MOUNT AND ANTENNA.
- INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS, (OR AFTER EVERY STORM) FOR TIGHTNESS.
- TO INSURE SAFETY, NO INSTALLATION SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
- LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE ARCHITECT OR STRUCTURAL ENGINEER APPROVAL PRIOR TO INSTALLATION.
- ALL ANTENNA INSTALLATION SHOULD BE GROUNDED, BY INSTALLER, TO MEET ALL APPLICABLE CODES.





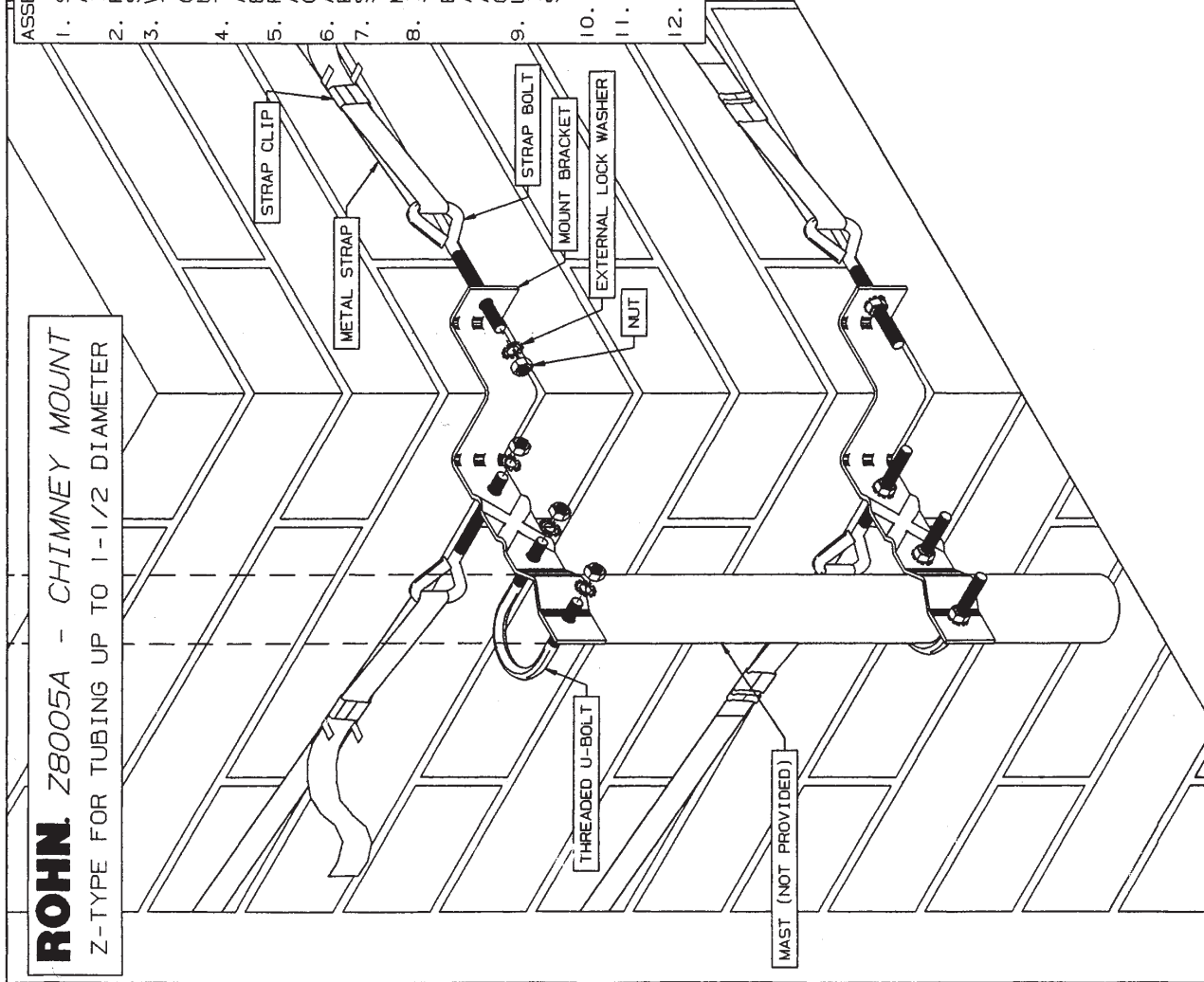




**ROHN Z8005A - CHIMNEY MOUNT**  
Z-TYPE FOR TUBING UP TO 1-1/2 DIAMETER

ASSEMBLY INSTRUCTIONS:

1. START STRAP BOLTS INTO BRACKET HOLES, SCREWING APPROXIMATELY 1/4" THRU EXTERNAL LOCK WASHERS INTO NUTS.
2. PLACE ONE BRACKET AGAINST CHIMNEY CORNER AS SHOWN IN DIAGRAM.
3. WRAP METAL STRAP AROUND CHIMNEY AND SLIP THRU THE STRAP CLIPS. WORK STRAP THRU THE HOOK END OF THE BOLT AND SLIP BACK THRU THE CLIP AS SHOWN. USE PLIERS TO CRIMP THE CLIP TO SECURE THE STRAP.
4. TIGHTEN THE NUTS ON THE STRAP BOLTS TO REMOVE ANY SLACK IN THE METAL STRAP. CUT-OFF ANY EXCESS METAL STRIP.
5. REPEAT ABOVE STEPS FOR THE SECOND BRACKET ASSEMBLY. THE BRACKETS SHOULD BE A MINIMUM OF 18" APART, VERTICALLY.
6. ATTACH THE U-BOLTS INTO POSITION AS SHOWN WITH EXTERNAL LOCK WASHERS AND NUTS.
7. SLIDE THE MAST INTO CHIMNEY MOUNT BRACKET AND TIGHTEN THE NUTS OF THE U-BOLTS TO SECURE THE MOUNT.
8. IT IS THE INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE CHIMNEY, MOUNTING SURFACE, AND THE ENTIRE INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY THIS MOUNT, ANTENNA, OR ANY INSTALLATION ACCESSORIES SUCH AS A LADDER OR THE WEIGHT OF A MAN.
9. LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE ARCHITECT OR STRUCTURAL ENGINEERING APPROVAL PRIOR TO INSTALLATION.
10. ALL ANTENNA INSTALLATIONS SHOULD BE GROUNDED BY THE INSTALLER TO MEET ALL APPLICABLE CODES. TO ENSURE SAFETY, NO INSTALLATION, ROOF OR WALL, SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
11. INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.



<b>ROHN.</b>	
Title Z8005A - CHIMNEY MOUNT ASSEMBLY	
Scale NONE	Units: drawing specified dimensions are given in inches. Tolerances are as noted.
Drawn by	Date 03/28/96
TDS	Material
Checked by	Date 04/19/96
MD	Weight
Approved by Engineering Date 4/2/96	
Approved by Production Date 4/2/96	
File Number EF416715	
Drawing Number C960060R1	
Drawing Type .ASSY	



**ONE LEGGED MOUNT ASSEMBLY**

**NOTES:**

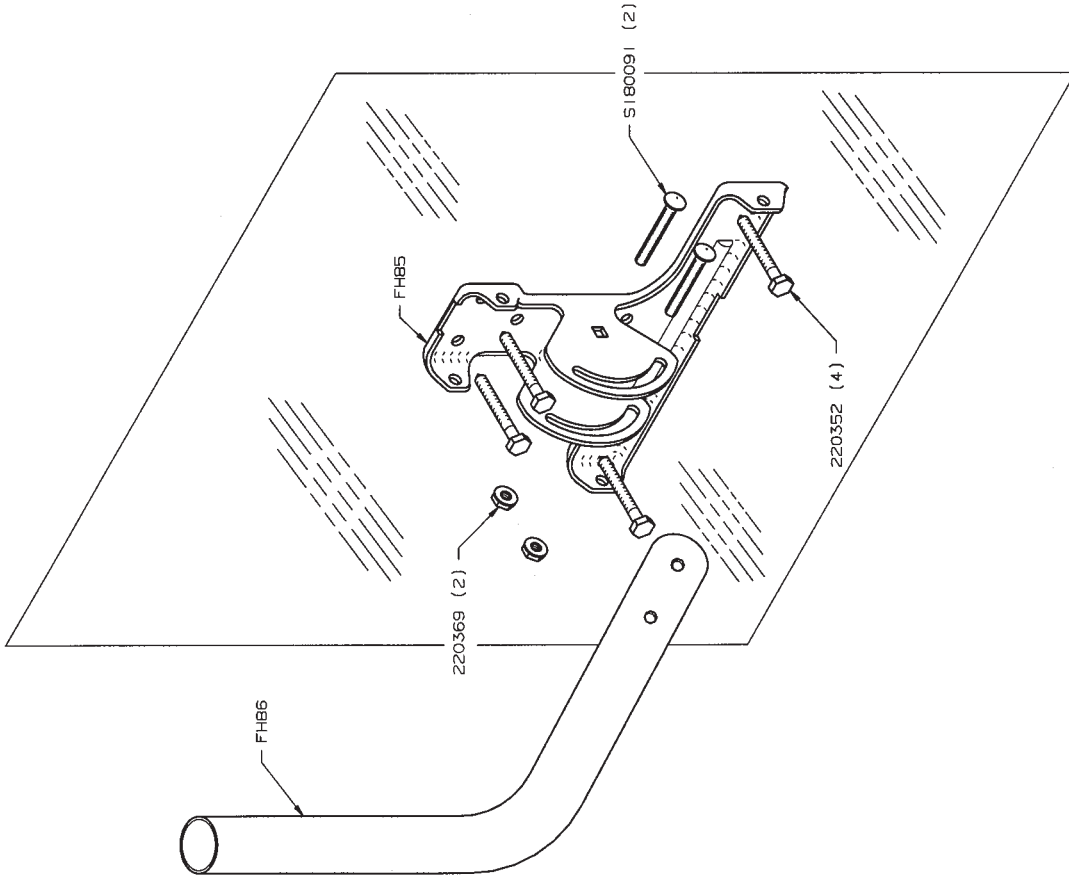
- 1.) ONE LEGGED MOUNT CAN BE INSTALLED ON A FLAT OR PITCHED ROOF, WOOD OR MASONRY WALL OR LEAVE (GABLE END). WITH THE OPTIONAL ILGCM CHIMNEY MOUNT KIT, THE ONE LEGGED MOUNT CAN BE INSTALLED ON A MASONRY CHIMNEY.
- 2.) ALL ANTENNA INSTALLATIONS SHOULD BE GROUNDED BY THE INSTALLER TO MEET ALL APPLICABLE CODES.
- 3.) NO INSTALLATION, ROOF OR WALL SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
- 4.) INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.
- 5.) IT IS THE INSTALLER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY THIS MOUNT AND ANTENNA.
- 6.) LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE ARCHITECTURAL DRAWINGS AND AN ENGINEER APPROVAL PRIOR TO INSTALLATION.
- 7.) MOUNTING TUBE IS 1-1/4" O.D.
- 8.) ANTENNA NOT TO EXCEED 2 SQUARE FEET OF EFFECTIVE PROJECTED AREA.

**ILG6 CONTAINS THE FOLLOWING:**

- FH85 FORMED BRACKET { 1 }
- FH86 1-1/4" O.D. TUBE { 1 }
- S180091 1/4" X 1-3/4" CARRIAGE BOLT { 2 }
- 220369 1/4" X 1/2" FLANGE NUT { 2 }
- 220352 1/4" X 2" LAG SCREW { 4 }

**ILGCM CONTAINS THE FOLLOWING:**

- FH88 CHIMNEY MOUNTING STRAP { 2 }
- FH87 HARDWARE BAG FOR CHIMNEY MOUNT { 1 }



**ROHN.**

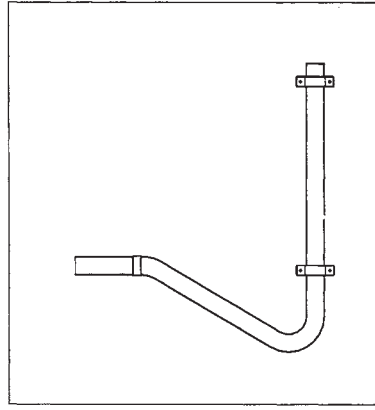
**TITLE**  
**ONE LEGGED MOUNT ASSEMBLY**

Scale	Unless otherwise specified, dimensions are given in inches. Tolerances are as noted.		
Drawn by	Date	Material	Finish
Directed by	6-6-96		Weight
Approved by Engineering	Date	Not to be used for any other purpose without our written consent.	
Approved by Product	Date	File Number	EF 4 196T0
Approved by Service	Date	Drawing Number	C960119
Drawing Type - ELEV			

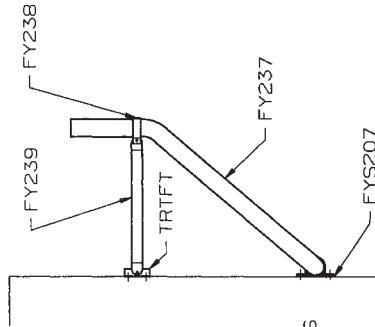


# SNAKE MOUNT™ ASSEMBLY SM125

## WALL MOUNT

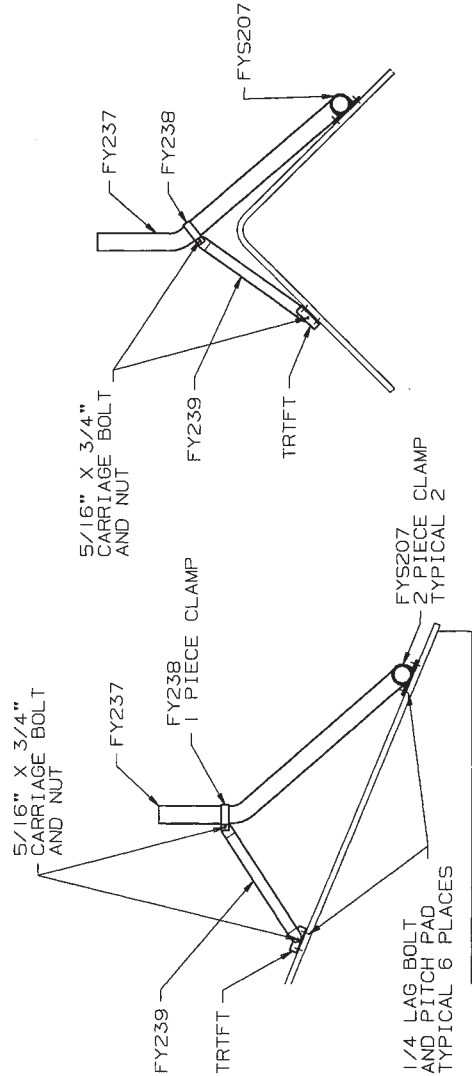


FRONT VIEW



END VIEW

- NOTES:
- 1.) SNAKE MOUNT CAN BE USED ON A FLAT, SLOPED, OR PEAKED ROOF.
  - 2.) SNAKE MOUNT CAN BE USED ON A WOOD OR MASONRY WALL.
  - 3.) TWO KNEE BRACES ARE INCLUDED. APPLICATION VARIES WITH PITCH OF ROOF.
  - 4.) ALL ANTENNA INSTALLATIONS SHOULD BE GROUNDED BY THE INSTALLER TO MEET ALL APPLICABLE CODES.
  - 5.) TO INSURE SAFETY, NO INSTALLATION, ROOF OR WALL, SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
  - 6.) INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.
  - 7.) IT IS THE INSTALLER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY THIS MOUNT AND ANTENNA.
  - 8.) LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE ARCHITECT OR STRUCTURAL ENGINEER APPROVAL PRIOR TO INSTALLATION.
  - 9.) SNAKE MOUNT IS A REGISTERED TRADE MARK.
  - 10.) PATENT APPLIED FOR.



END VIEW

END VIEW

<b>ROHN.</b>	
TITLE <b>SNAKE MOUNT ASSEMBLY</b> SM125	
<small>Unless otherwise specified, dimensions are given in inches. Tolerances are as noted.</small>	
Scale	Weight
NONE	
Drawn by	Date
Checked by	Date
Approved by Engineering	Date
Approved by Production	Date
Approved by Sales	Date
File Number <b>EF 410BTO</b>	
Drawing Number <b>C960129</b>	
Drawing Type <b>ASSEMBLY</b>	



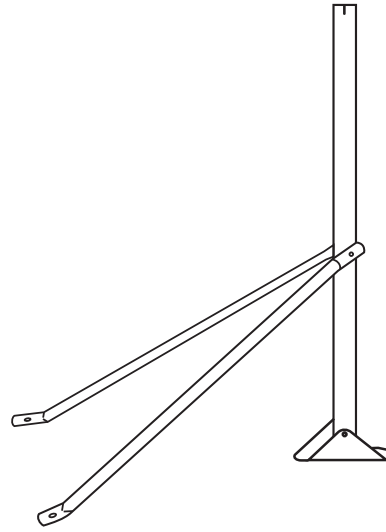


**HEAVY DUTY ALL STEEL TRI-MOUNTS**  
All The Features Needed For Any Type Of TV Antenna Installation

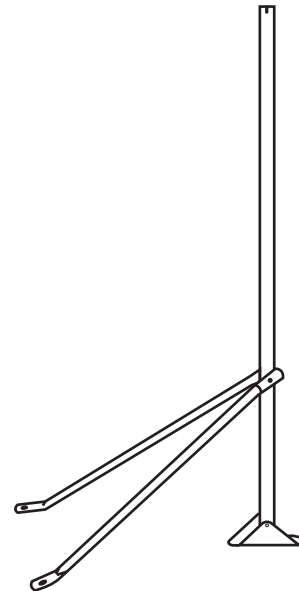
- Spiral double headed nails provided for secure attachment and easy disconnect
- Pitch pads provided to seal base
- Pre-galvanized to resist corrosion
- Tri-Mounts are notched at the top for easy installation and to prevent extension mast from twisting
- Outriggers are easily adapted to any roof pitch

**SPECIFICATIONS**

Both mounts have Standard Packages of 5 per banded bundle and Master Packages of 120.



**TRM 36** has a weight of 15 lbs. per package.



**TRM 60** has a weight of 20 lbs. per package.



## TRIPOD ROOF TOWERS

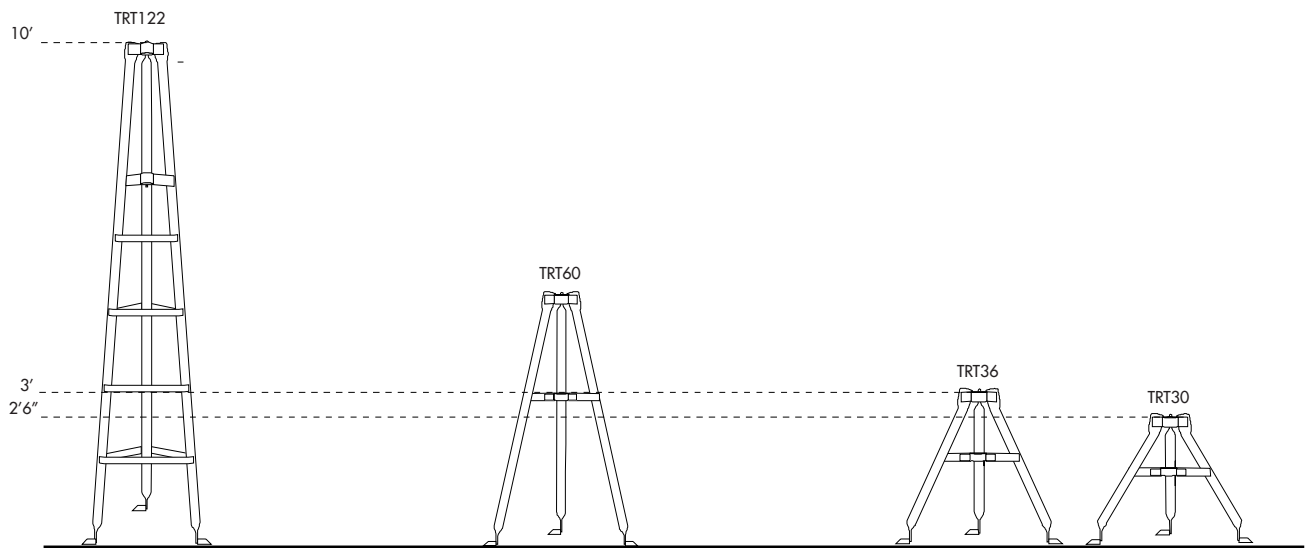
**TRT36**-Snap-out design

**TRT60**-4' base spread to accommodate 24" or 16" rafter spacing

**TRT122**-Bolt on braces, ladder face on one side, bolt on foot for hinge-type installation

### **SPECIFICATIONS**

Part Number	Wt.	Ht.	Packaged
TRT30	6#	2'6"	Bulk
TRT36	7#	3'	Bulk
TRT60	10#	5'	Bulk
TRT122	29#	10'	Cardboard Box
TRT Bag (optional)	1/2#	Bag contains: 6 lag screws & foot sealers	



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.

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

**All towers and masts should be installed and dismantled by experienced and trained personnel.**

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

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

The mixing of so-called interchangeable copies of Rohn towers with Rohn towers is dangerous and voids all engineering or warranty data supplied by Rohn. Materials used by the so-called copies are not the same quality and have not been tested or engineered by 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.





## ROHN® STEEL TUBING

Part Number	Description	Finish	End Type	Packaging
160505PHS	1 1/4" x 5' - 16 gauge	Pre-Galvanized	Swaged	Bundled
161005GHS	1 1/4" x 10' - 16 gauge	Hot Dip Galvanized	Swaged	Bundled
161005PHS	1 1/4" x 10' - 16 gauge	Pre-Galvanized	Swaged	Bundled
161005PHSB	1 1/4" x 10' - 16 gauge	Pre-Galvanized	Swaged	Boxed
161006PLX	1 1/2" x 10' - 16 gauge	Pre-Galvanized	Expanded	Bundled
M200	2" O.D. x 10' - 16 gauge	Pre-Galvanized	Plain End	Bundled
M200H	2" O.D. x 10' - 1/8" wall	Hot Dip Galvanized	Plain End	Bundled
M4	1 1/4" x 4' - 16 gauge	Pre-Galvanized	Plain End	Bundled
M8	1 1/4" x 8' - 16 gauge	Pre-Galvanized	Plain End	Bundled
180505PHS	1 1/4" x 5' - 18 gauge	Pre-Galvanized	Swaged	Bundled
180505PHSB	1 1/4" x 5' - 18 gauge	Pre-Galvanized	Swaged	Boxed
181005PHS	1 1/4" x 10' - 18 gauge	Pre-Galvanized	Swaged	Bundled
181005PHSB	1 1/4" x 10' - 18 gauge	Pre-Galvanized	Swaged	Boxed
200505EHS	1 1/4" x 5' - 20 gauge	Gold Enameled	Swaged	Bundled
200505PHS	1 1/4" x 5' - 20 gauge	Pre-Galvanized	Swaged	Bundled
201005PHS	1 1/4" x 10' - 20 gauge	Pre-Galvanized	Swaged	Bundled
202505PHS	1 1/4" x 2 1/2' - 20 gauge	Pre-Galvanized	Swaged	Bundled

5' and 10' tubing are banded 10 pcs. per bundle. 2 1/2' tubing is banded 20 pcs. per bundle or can be bulk packed per customer specifications.

5' and 10' boxed tubing are 10 pcs. per box.

### For Your Protection

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

All antenna-type installations should be installed (or dismantled) by experienced and trained personnel and guyed or attached every 10'. The maximum height for average TV receiving antennas is 30' above ground (or 10' above roof). Large ham, CB, or TV antennas are not recommended for use with 1 1/4"-10' tubing sections.

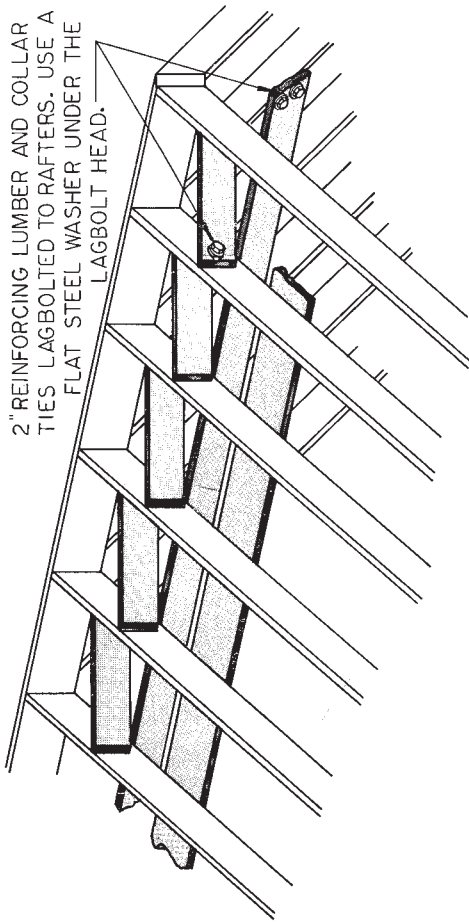
All antenna-type installations should be thoroughly inspected by qualified personnel and marked with hazard and warning labels to insure safety and proper performance.

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

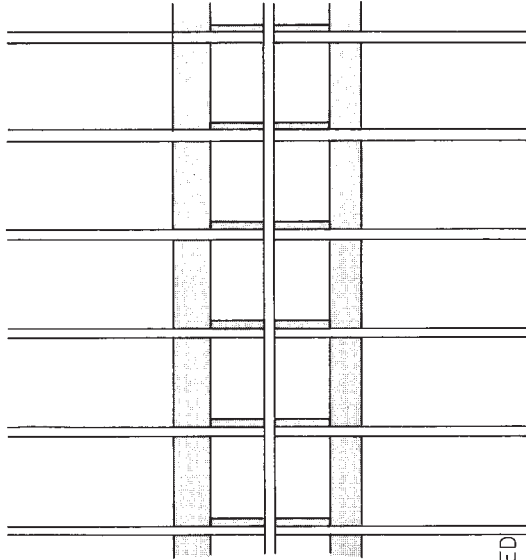
For safety and installation information, see ROHN publication Form No. 93-2754C.



BRUNING 40-105 41993-1



2" REINFORCING LUMBER AND COLLAR TIES LAGBOLTED TO RAFTERS. USE A FLAT STEEL WASHER UNDER THE LAGBOLT HEAD.



TOP VIEW

ROOF REINFORCING LUMBER (SHOWN SHADED) MUST BE PLACED DIRECTLY UNDER CENTER OF MOUNTING FEET.

NOTES

1. TO INSURE SAFETY, NO INSTALLATION, ROOF OR WALL, SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
2. IT IS THE PURCHASER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY HIS MOUNT AND ANTENNA.
3. LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE AN ARCHITECT OR STRUCTURAL ENGINEER APPROVAL PRIOR TO INSTALLATION.
4. INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.
5. ALL ANTENNA INSTALLATION SHOULD BE GROUNDED, BY THE INSTALLER, TO MEET ALL APPLICABLE CODES.

UNR-Rohn Division of UNR, Inc.		UNR Logo	
Title: TYPICAL ROOF REINFORCING FOR TVRO MOUNTS			
Scale:	Unless otherwise specified, dimensions are given in inches.		
Drawn by: JSB	Quantity: 3-585	Material: 2x4	Finish: 2
Checked by: KA	Quantity: 3-585	Material: 2x4	Finish: 2
Approved by Engineering: [Signature]	Date: 3-18-85	Part Number:	
Approved by Production: [Signature]	Date:	Part Number:	
Approved by Sales:	Date:	Part Number:	8550019



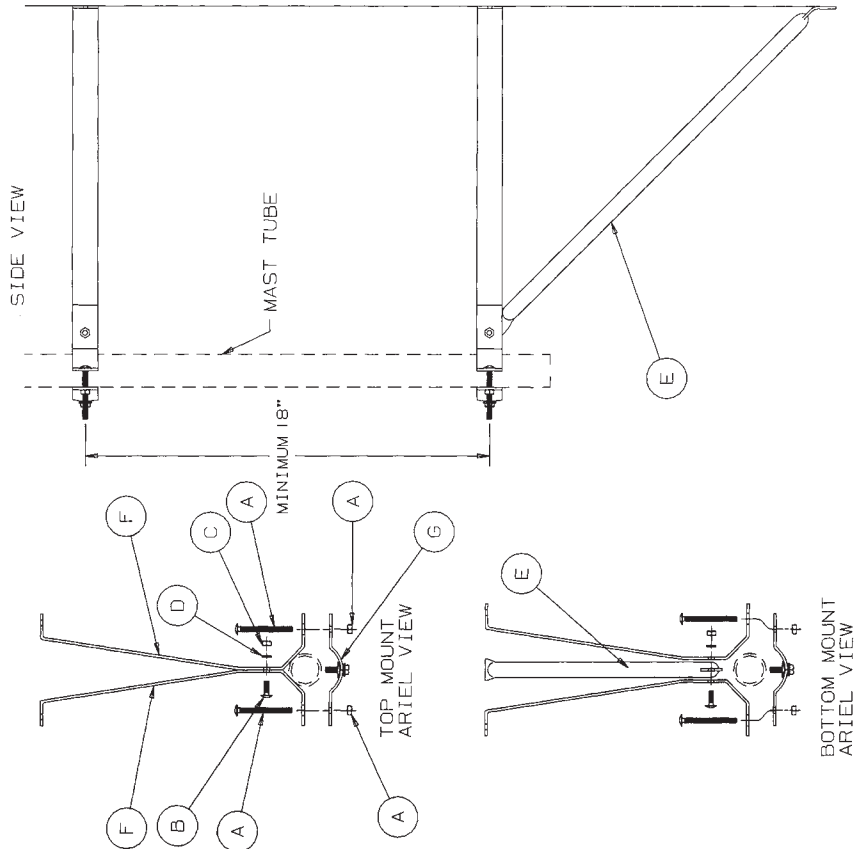


**DOUBLE WALL MOUNT ASSEMBLY**

ITEM	QTY	PART NO	DESCRIPTION
A	1	220031PKN4	BOLT 1/4" x 2-3/4" CARR W/NUT (PKG OF 4) ZP
B	2	220346	BOLT 1/4" x 3/4" CARR
C	2	240005	NUT 1/4" HEX
D	2	250120	WASHER 1/4" SPLIT LOCK
E	1	SEE TABLE A	TUBE SPECIFICATION WILL VARY
F	4	SEE TABLE B	STRAP SPECIFICATION WILL VARY
G	2	FHS18	WALL MOUNT BRACKET ASSEMBLY

TABLE A	
PART NO	DESCRIPTION
FH59	TUBE 3/4" X 18GA X 10-7/8 FOR 8" MOUNT PG
FH60	TUBE 3/4" X 18GA X 16-1/2 FOR 12" MOUNT PG
FH61	TUBE 3/4" X 18GA X 25 FOR 18" MOUNT PG
FH62	TUBE 3/4" X 18GA X 32 FOR 24" MOUNT PG

TABLE B	
PART NO	DESCRIPTION
FH75	8" WALL MOUNT STRAP PG
FH76	12" WALL MOUNT STRAP PG
FH77	18" WALL MOUNT STRAP PG
FH78	24" WALL MOUNT STRAP PG



**ROHN®**

**DOUBLE WALL MOUNT ASSEMBLY**

Unless otherwise specified, dimensions are given in inches. Tolerances are as noted.

Drawn by: **TD5** Date: **1/16/96**

Checked by: **MD** Date: **1/18/96**

Approved by Engineering: **BH / PDC** Date: **1/19/96**

Approved by Production: **BH / PDC** Date: **1/19/96**

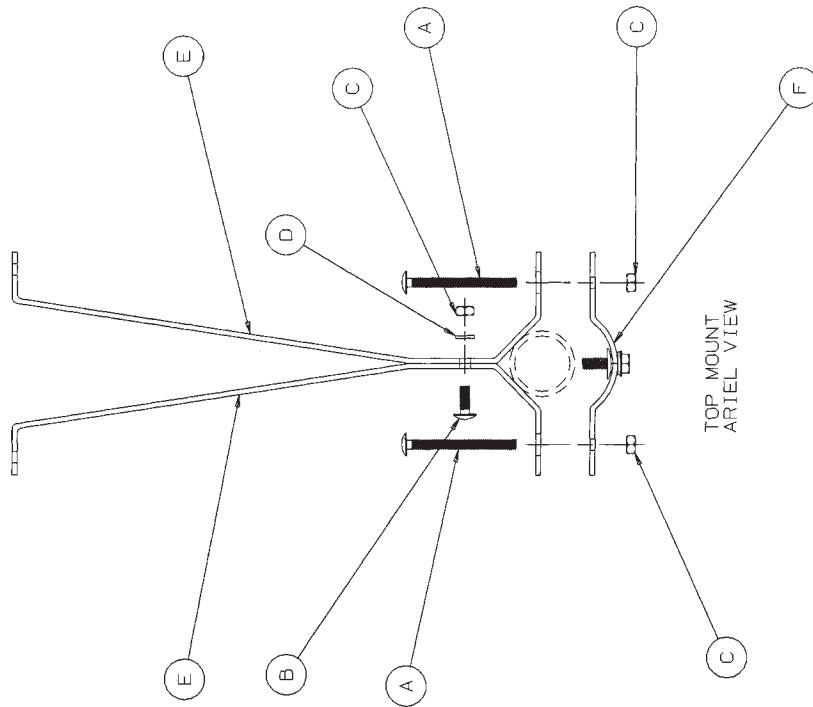
File Number: **EF4112TS**

Drawing Number: **C960014**

Drawing Type: **ELE**



SINGLE WALL MOUNT ASSEMBLY



BILL OF MATERIAL

ITEM	QTY	PART NO	DESCRIPTION	ZP
A	2	220031	BOLT 1/4 x 2-3/4 CARR	ZP
B	1	220346	BOLT 1/4 X 3/4 CARR	ZP
C	3	240005	NUT 1/4 HEX	ZP
D	1	250120	WASHER 1/4 SPLIT LOCK	ZP
E	2	SEE TABLE A	STRAP SPECIFICATION WILL VARY	
F	1	FHS1B	BRACKET ASSEMBLY	

TABLE A

PART NO	DESCRIPTION	PG
FH74	6" WALL MOUNT STRAP	PG
FH75	8" WALL MOUNT STRAP	PG
FH76	12" WALL MOUNT STRAP	PG
FH77	18" WALL MOUNT STRAP	PG
FH78	24" WALL MOUNT STRAP	PG
FH79	30" WALL MOUNT STRAP	PG

**ROHN®**

TITLE  
SINGLE WALL MOUNT ASSEMBLY

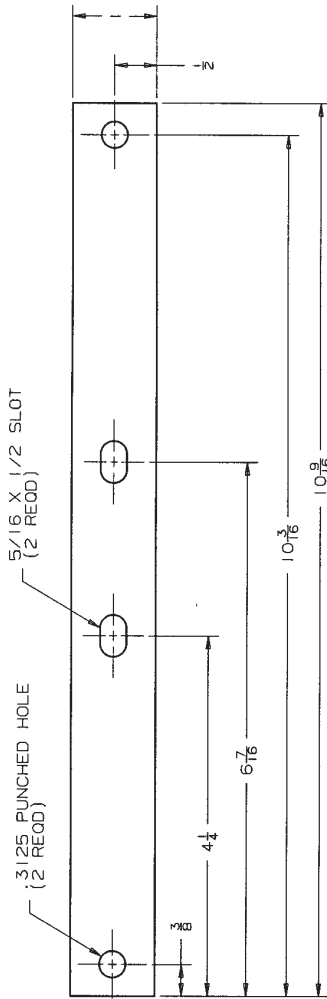
Scale NONE Unless otherwise specified, dimensions are given in inches. Tolerances are as noted.  
 Drawn by TDS Date 1/15/96  
 Checked by MJD Date 1/18/96  
 Approved by Engineering Date  
 Approved by Production Date  
 BH / PDC 1/19/96  
 Approved by Sales Date  
 Drawing Number EF411215  
 C960013  
 Drawing Type: ELE



**HEAVY-DUTY, GALVANIZED WALL MOUNTS**

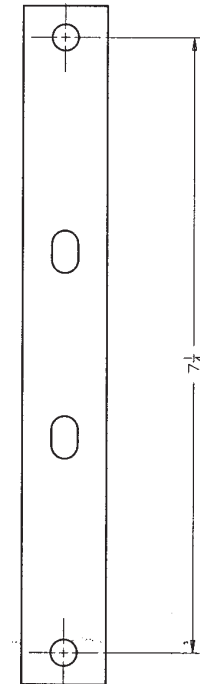
WM4	4" clearance, upper and lower bracket supplied, heavy duty (includes lag screws)
VWM4	4" clearance, upper and lower bracket supplied, economy model (includes lag screws)
WM6S*	6" clearance, upper bracket only
WM8S*	8" clearance, upper bracket only
WM8D*	8" clearance, upper and lower bracket supplied
WM12S*	12" clearance, upper bracket only
WM12D*	12" clearance, upper and lower bracket supplied
WM18S*	18" clearance, upper bracket only
WM18D*	18" clearance, upper and lower bracket supplied
WM24S*	24" clearance, upper bracket only
WM24D*	24" clearance, upper and lower bracket supplied
WM30S*	30" clearance, upper bracket only



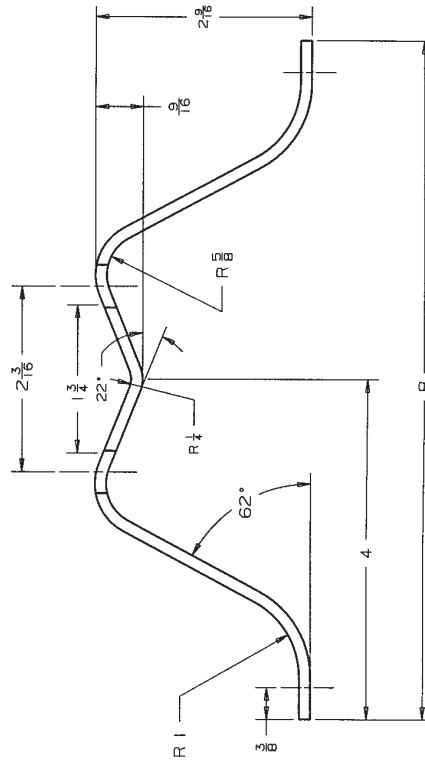


FH23

10-9/16 X 1 10GA PG



AFTER FORMED



BILL OF MATERIAL

ITEM	PART NO	DESCRIPTION	DWG NO
2	FH23	BRACKET 10-9/16 X 1 X 10GA	C791451
4	240005	NUT 1/4 HEX	PG
	710062	CARTON #24 19 X 14 X 9-1/2	ZP
	710173	CARTON 9-5/8 X 3-7/8 X 1-3/8 WHITE	PURCHASE
	740150	LABEL, ROHN P/N VWM4X	PURCHASE
1	220352PK4	SCREW 1/4 X 2 " SHWH TYPE A	PURCHASE
2	FH28	SADDLE CLAMP	C960059
	FH44	SAFETY SHEET (FORM932754C-A)	BB00961
2	JR42	U-BOLT 1/4 X 1-7/8 V-BTM	C910204
	VWM4X	WALL MOUNT INDIV PACKAGE (25/CTN)	ZP
1	710057	CARTON 11-3/4 X 8-3/4 X 4-13/16	C791451
.03	FORM932754C-A	SAFETY SHEET INFORMATION (TRTS, TV HDWE)	BB30004
.03	740152	LABEL, ROHN P/N VWM4	PURCHASE
	VWM4	WALL MOUNT, BULK PACKAGE (36/CTN)	C791451

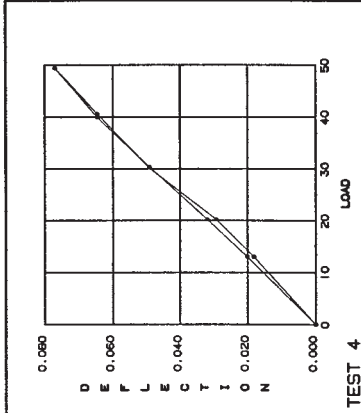
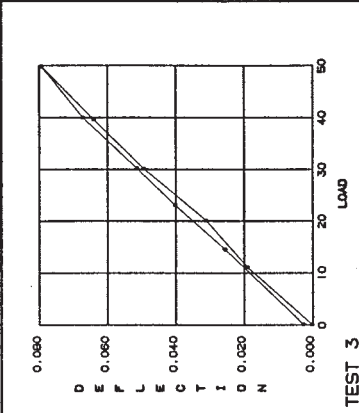
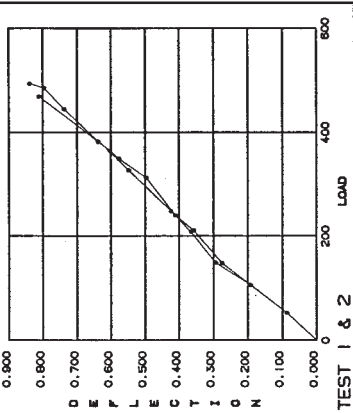
REDRAWN AND REVISED	BEL	10-20-97	BK/AH	10-28
R6/BILL OF MATERIAL				
<b>ROHN</b>				
FRANKFORT, INDIANA 46041				
Title: VWM-4 MAST WALL MOUNT BRACKET				
Scale	Unless otherwise specified, dimensions are given in inches. Tolerances are as noted.			
Drawn by	Date	Material	Finish	Weight
CSB	10-2-97		± 1*	
Checked by	Date	This drawing is the property of ROHN. It is not to be reproduced, copied or traced in any form without our written consent.		
RFJ	10-2-80	File Number		
Approved by Engineering	Date	Approved by Production		
		Approved by Sales		
		Drawing Type : FAB		
		Drawing Number		
		C791451R6		







LOAD CASE	LOAD (LBS)	DEFLEC-TION (IN)	DIAL READING	COMMENTS
<b>TEST 1 (FULL LOAD)</b>				
1	0	0.000	0.938	
2	50	0.086	0.852	
3	100	0.174	0.764	
4	160	0.273	0.665	
5	210	0.353	0.585	
6	250	0.428	0.510	
7	300	0.492	0.446	
8	350	0.577	0.361	
9	390	0.654	0.284	
10	475	0.807	0.131	Pipe twisted during loading past 500 lbs.
<b>TEST 2 (FULL LOAD)</b>				
1	0	0.000	0.907	
3	160	0.288	0.619	
4	240	0.411	0.496	
5	325	0.547	0.360	
6	375	0.621	0.286	
7	450	0.742	0.165	
8	490	0.799	0.108	
9	500	0.839	0.068	Pipe twisted during loading past 500 lbs.
<b>TEST 3 (LOW LOAD DEFLECTION)</b>				
1	0	0.000	0.871	
2	11	0.019	0.852	
3	20	0.033	0.838	
4	30	0.050	0.821	
5	39	0.064	0.807	
6	49	0.079	0.792	
7	40	0.066	0.805	
8	31	0.052	0.819	
9	23.5	0.040	0.831	
10	15	0.026	0.845	
11	0	0.003	0.868	
<b>TEST 4 (WITH OUT DIAGONAL BRACES)</b>				
1	0	0.000	0.858	
2	12.5	0.018	0.840	
3	20	0.030	0.828	
4	30	0.048	0.810	
5	41	0.064	0.794	
6	49	0.077	0.781	
7	40	0.064	0.794	
8	30.5	0.048	0.810	
9	20	0.033	0.825	
10	12.5	0.020	0.838	
11	0	0.000	0.858	



**LOADING:**  
All tests were run with an eccentric horizontal torque arm with a vertical torque arm of 12.375 inches. A load of 202 pounds applied to the dial indicator gauge reading to the 6000 inch. Full load was 50 pound increments. Load between 50 pound increments were estimated.  
The actual deflections are the inverse of the dial readings.  
The actual deflection is derived by subtracting the current dial reading from the previous dial reading.  
Low load tests were measured with a 50 pound scale with one pound increments.

**TEST 1**  
Test 1 is a full load test to determine the ultimate load capacity of the pipe clamp bolts to 55 foot pounds. The ultimate load observed in test 1 was 475 lbs. Failure occurred by twisting about the pipe clamp connections. No permanent deformation occurred.

**TEST 2**  
Test 2 is a repeat of test 1 after retightening the pipe clamp bolts to 55 foot pounds. The ultimate load observed in test 2 was 500 lbs. Failure occurred by twisting about the pipe clamp connections. The failure mode and load confirmed test 1 results.

**TEST 3**  
Test 3 is a low load test to determine deflection of low load horizontal loads up to 50 pounds. The loads and deflections were recorded at various increments up to the limits of the 50 pound scale and then unloaded in a similar fashion.

**TEST 4**  
Test 4 is a repeat of test 3 with the diagonal members removed. The test results are almost identical to test 3 indicating that the braces do not participate in the resistance of the horizontal test.

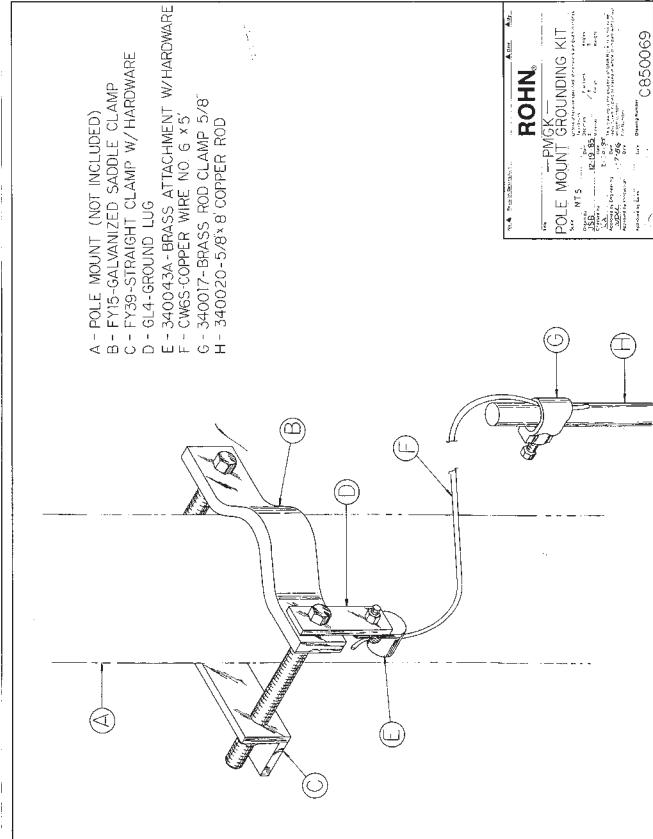
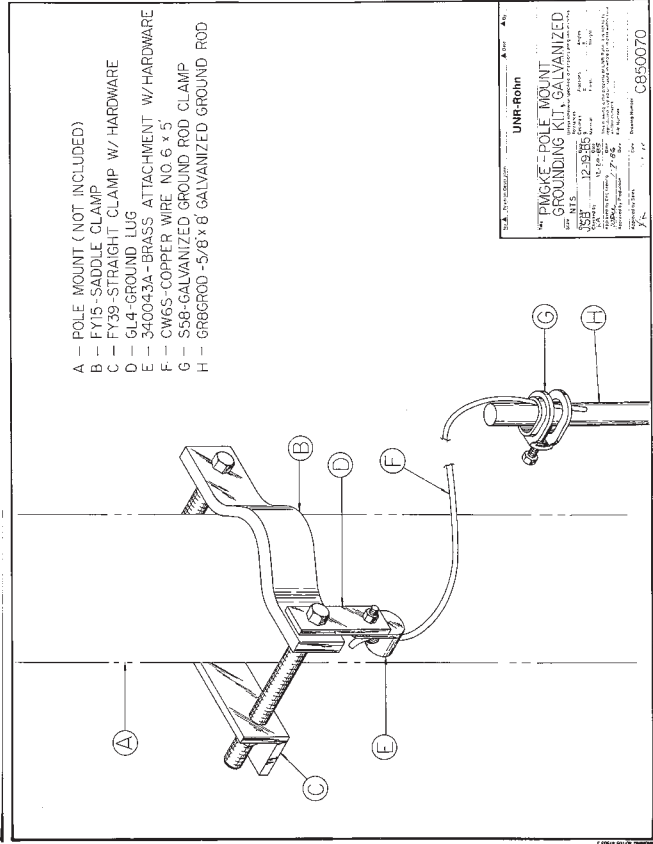
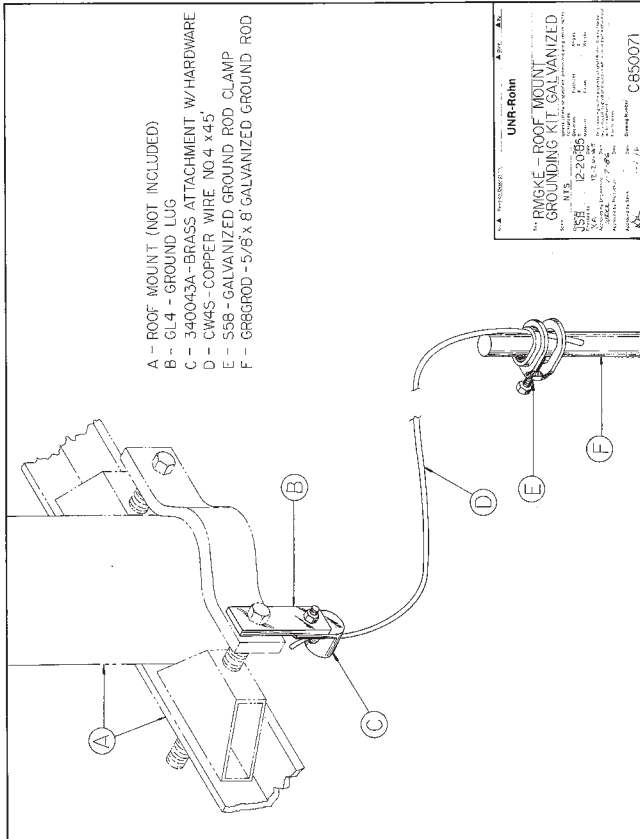
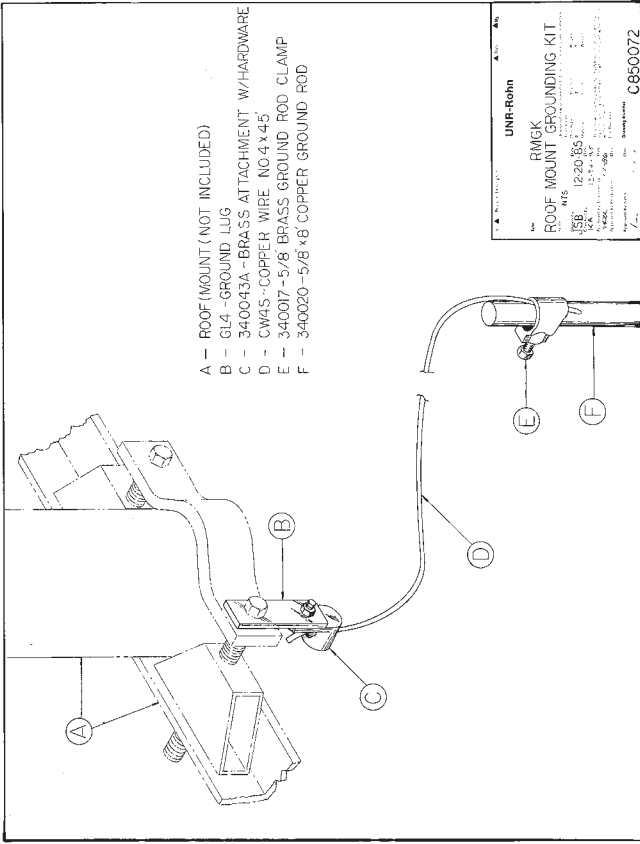
**CONCLUSIONS**  
A maximum allowable horizontal load of 315 pounds or a maximum twist around the pipe of 3640 in-lb may be applied to the mount. The maximum torque of 1600 in-lb may be used. These allowable loads include a factor of safety of 1.5.

**DIAGONAL BRACES**  
Diagonal braces are an optional item that is used to reduce the prying action of the wall attachment bolts. Large vertical loads can cause loosening of the bolts to a wall surface such as wood or siding. Diagonal braces are not required when attaching to concrete and concrete block walls with epoxy or wedge anchors. Diagonal braces are required when attaching to concrete block walls through-bolts to concrete or concrete block walls. The braces are to deform or shrink behind the mount.

**ROHN**  
PROGRESSIVE, INDIANAPOLIS, IN 46241

THE ENGINEERING REPORT FOR W4212

DATE: 11/14/00  
DRAWN BY: E. J. JONES  
CHECKED BY: E. J. JONES  
APPROVED BY: E. J. JONES  
DATE: 11/14/00  
PROJECT NO.: 04443240  
DRAWING NO.: D980020



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**ROHN**<sup>TM</sup>  
Products



HARDWARE / ACCESSORIES



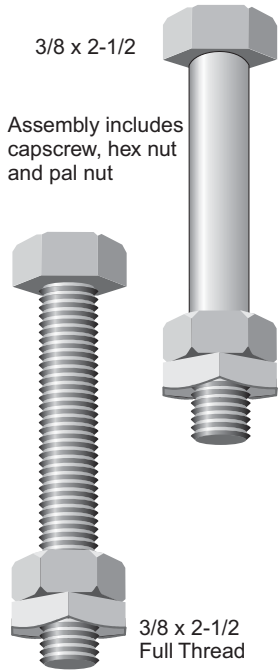
PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

Blank



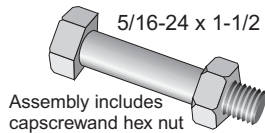
## BOLTS, NUTS AND WASHERS

### Grade 5 Capscrew Assemblies - Hot Dip Galvanized



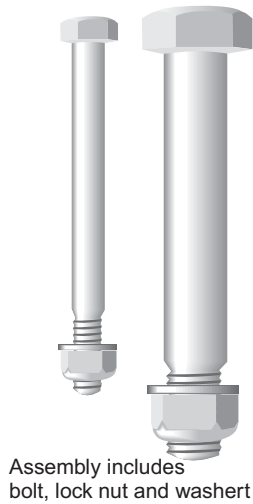
Description	Capscrew		Hex Nut Part No.	PalNut Part No.	Assembly	
	Part No.	Weight			Part No.	Weight
5/16 x 2-3/8	210003G	5/100	230002	230001	210003GA	7/100
3/8 x 1-1/4	210005G	5/100	230005	230007	210005GA	10/100
3/8 x 1-1/2	210008G	5/100	230005	230007	210008GA	10/100
3/8 x 2	210009G	7/100	230005	230007	210009GA	12/100
3/8 x 2-1/2	210011G	8/100	230005	230007	210011GA	13/100
3/8 x 2-1/2 (Full Thread)	210176G	8/100	230005	230007	210176GA	13/100
3/8 x 4	210014G	13/100	230005	230007	210014GA	18/100
3/8 x 4 (Full Thread)	210013G	18/100	230005	230007	210013GA	18/100
7/16 x 2-1/2	210016G	17/100	230009	230010	210016GA	17/100
1/2 x 5	210083G	32/100	230013	230011	210083GA	41/100
5/8 x 1-3/4	210146G	22/100	230018	230017	210146GA	35/100
5/8 x 2	210140G	25/100	230018	230017	210140GA	38/100
5/8 x 3-1/4	210036G	38/100	230018	230017	210036GA	51/100
5/8 x 3-3/4	210038G	40/100	230018	230017	210038GA	53/100
3/4 x 4-1/2	210091G	71/100	230020	230021	210091GA	91/100
7/8 x 3	210062G	71/100	230026	230026	210062GA	103/100

### Grade 5 Capscrew Assemblies - Zinc Plated



Description	Assembly Part No.	Weight	Hex Nut Part No.
1/4-28 x 1-1/2	220029	3/100	240009
5/16-24 x 1-1/2	220037	4/100	240016

### Rigid Tube Bolt Assemblies, Hot Dip Galvanized



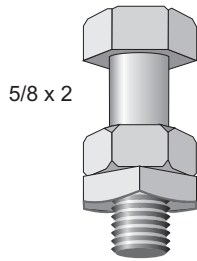
Description	Bolt		Lock Nut Part No.	Washer Part No.	Assembly	
	Part No.	Weight			Part No.	Weight
<sup>1</sup> J-Joint (5/16" - 18 THD)	J071	8/100	230003	250008G	J07	89/100
<sup>2</sup> J-Brace (5/16" - 18 THD)	210003G	5/100.	230003	250008G	J08	336/100
<sup>3</sup> C-Joint (1/2"-13THD)	C071	30/100	230012	250011G	C07	660/100
C-Joint (1/2"-13THD)	C071	30/100	230012	250011G	C07L	540/100
(9 req'd)			(15req'd)	(9 req'd)		
( Long)(1/2"- 13THD)	C071L					
(6 req'd)						
<sup>4</sup> C-Brace (5/16" - 18 THD)	C081		230003	250008G	C08	420/100
<sup>5</sup> D-Joint (5/8" - 11 THD)	D071	61/100	Discont.		N/A	
D-Joint (5/8" - 11 THD)	D071	61/100	Discont.		N/A	
(9 req'd)						
(Long) (5/8" - 11 THD)	D071L	64/100				
(6 req'd)						
<sup>6</sup> D-Brace (5/16" - 18 THD)	D081	230003	250008G		D08	630/100

**Notes to Rigid Tube Bolt Assemblies**

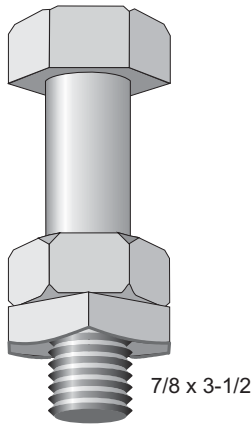
- 1 Assembly includes 9 bolts, lock nuts and washers.
- 2 Assembly includes 21 bolts, lock nuts and washers.
- 3 Assembly includes 15 bolts, lock nuts and washers.
- 4 Assembly includes 30 bolts, lock nuts and washers.
- 5 Assembly includes 15 bolts, and washers.
- 6 Assembly includes 30 bolts, lock nuts and washers



**Structural Bolt Assemblies - Hot Dip Galvanized**



Assembly includes bolt, hex nut and pal nut



Description	Capscrew		Hex Nut Part No.	PalNut Part No.	Assembly	
	Part No.	Weight			Part No.	Weight
1/2 x 1-1/4	210017G	12/100	230013	230011	210017GA	21/100
1/2 x 1-1/2	210018G	13/100	230013	230011	210018GA	22/100
1/2 x 1-3/4	210019G	15/100	230013	230011	210019GA	24/100
1/2 x 2	210020G	16/100	230013	230011	210020GA	25/100
5/8 x 1-1/2	210029G	21/100	230018	230017	210029GA	34/100
5/8 x 1-3/4	210030G	36/100	230018	230017	210030GA	36/100
5/8 x 2	210031G	25/100	230018	2320017	210031GA	38/100
5/8 x 2-1/4	210032G	29/100	230029	230017	210032GA	42/100
5/8 x 2-1/2	210033G	30/100	230018	230017	210033GA	43/100
5/8 x 3-1/4	210072G	32/100	230018	230017	210072GA	45/100
3/4 x 1-3/4	210046G	38/100	230020	230021	210046GA	58/100
3/4 x 2	210047G	41/100	230020	230021	210047GA	61/100
3/4 x 2-1/4	210048G	42/100	230020	230021	210048GA	62/100
3/4 x 2-1/2	210049G	46/100	230020	230021	210049GA	66/100
3/4 x 2-3/4	210050G	50/100	230020	230021	210050GA	70/100
3/4 x 4-1/2	210057G	71/100	230020	230021	210057GA	91/100
3/4 x 5	210058G	74/100	230020	230021	210058GA	94/100
3/4 x 5-1/2	210059G	84/100	230020	230021	210059GA	104/100
7/8 x 2-1/4	210061G	62/100	230062	230025	210061GA	94/100
7/8 x 3-1/2	210063G	81/100	230026	230025	210063GA	113/100
1 x 4-1/4	210069G	127/100	230030	230029	210069GA	172/100
1 x 5-1/2	210070G	152/100	230030	230029	210070GA	197/100
1 x 5-3/4	210164G	159/100	230030	230029	210164GA	204/100



Includes basebolt, and two hex nuts

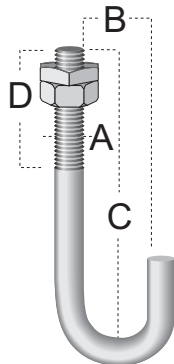
**Base Bolt - Hot Dip Galvanized**

Description	Part Number	Weight
1/2" x 12" + 2" (Hook)	1/2x12BB	1/2 ea.
5/8" x 12" + 3" (Hook)	5/8X12BB	1 ea.
3/4" x 16" + 3" (Hook)	3/4X16BB	1-1/2 ea.



**Step Bolt - Hot Dip Galvanized**

Description	Part Number	Weight
5/8 x 6-1/2 (2-1/2" thread length)	210042G	84/100
Same as above - includes 2 hex nuts	5/8STEP	108/100



**J Bolt - Hot Dip Galvanized**

Description				Part No.	Weight
A	B	C	D		
3/8	5/8	4	2-5/8	J44AA	16/100
3/8	5/8	5-11/16	2-3/4	J51A	23/100
3/8	5/8	6-13/16	2-1/2	J107A	35/100
3/8	3/4	2	1-1/2	J167A	10/100

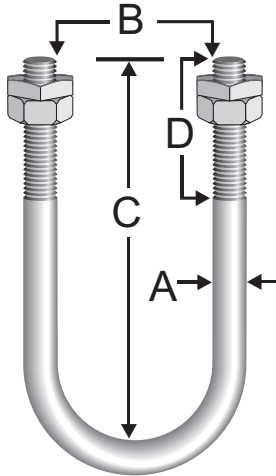


**Round Bend U-Bolt Assemblies - Hot Dip Galvanized**

How to measure U-Bolts

- A Diameter of thread
- B Width of opening
- C Depth of opening
- D Length of threaded area

Assembly includes bolt, hex nuts and pal nuts



Parts can be ordered separately. Prices and weights for Hex Nuts and Pal Nuts are located elsewhere in this catalog.

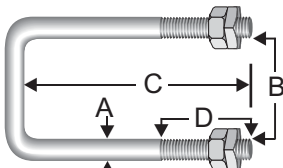
Description				U-Bolt		HexNut	PalNut	Assembly	
A	B	C	D	PartNo.	Weight	Part No.	Part No.	Part No.	Weight
5/16	1-1/2	2-5/8	1-1/4	JR51	11/100	230002	230001	JR51A	15/100
5/16	1-11/16	2-1/4	1	JR54	11/100	230002	230001	JR54A	15/100
5/16	1-1/2	2	1-1/4	JR55	10/100	230002	230001	JR55A	14/100
3/8	2-1/2	4	2	JR60	25/100	230005	230007	JR60A	35/100
3/8	2-1/2	3-1/2	1-1/2	JR61	23/100	230005	230007	JR61A	33/100
3/8	4	6	2-1/4	JR62	32/100	230005	230007	JP62A	42/100
3/8	4-1/2	6-1/2	2-1/4	JR63	42/100	230005	230007	JR63A	52/100
3/8	3-1/2	4-5/8	1-5/8	JR64	31/100	230005	230007	JR64A	41/100
3/8	1-1/2	3	1-3/4	JR65	19/100	230005	230007	JR65A	29/100
3/8	1-1/4	2-3/4	1-5/8	JR66	21/100	230005	230007	JR66A	31/100
3/8	1	2-1/4	1-1/4	JR67	13/100	230005	230007	JR67A	23/100
3/8	2-1/8	3	1-1/4	JR68	23/100	230005	230007	JR68A	31/100
3/8	13/16	1-5/8	7/8	JR69	11/100	230005	230007	JR69A	21/100
1/2	3/4	3-1/2	2-1/2	JR81	42/100	230013	230011	JR81A	60/100
1/2	2-1/4	4-1/2	2-1/4	JR82	53/100	230013	230011	JR82A	71/100
1/2	2-1/2	4-1/2	2-1/2	JR83	53/100	230013	230011	JR83A	71/100
1/2	3	5-5/8	3	JR84	66/100	230013	230011	JR84A	84/100
1/2	3	4-1/8	1-1/2	JR84S	55/100	230013	230011	JR84SA	73/100
1/2	4-1/2	6	2-1/4	JR85	73/100	230013	230011	JR85A	91/100
1/2	5-5/8	8	3-1/4	JR86	96/100	230013	230011	JR86A	114/100
1/2	6-3/4	9	3-1/4	JR87	109/100	230013	230011	JR87A	127/100
1/2	3-1/2	6	3	JR88	70/100	230013	230011	JR88A	88/100
1/2	4	6-1/2	3-1/2	JR89	10080/	230013	230011	JR89A	98/100
1/2	2	3-3/4	1-3/4	JR810	45/100	230013	230011	JR810A	63/100
1/2	8-3/4	11-1/8	2-1/2	JR90S	170/100	230013	230011	JR90SA	188/100
1/2	10-7/8	13	2-1/2	JR110	180/100	230013	230011	JR110A	198/100
1/2	12-7/8	15	2-1/2	JR120	225/100	230013	230011	JR120A	243/100
3/4	3	5-3/4	3	JR121	159/100	230020	230021	JR121A	199/100
3/4	3-1/2	6-1/4	2-3/4	JR122	223/100	230020	230021	JR122A	263/100
3/4	4	6-3/4	2-1/2	JR123	244/100	230020	230021	JR123A	284/100
3/4	4-1/2	7-1/4	2-1/2	JR124	240/100	230020	230021	JR124A	280/100
3/4	5-5/8	8-5/16	2-1/2	JR125	278/100	230020	230021	JR125A	318/100
3/4	6-3/4	10	3-1/2	JR126ST	350/100	230020	230021	JR126STA	390/100
3/4	8-3/4	11-3/8	2-1/2	JR128	384/100	230020	230021	JR128A	424/100
3/4	10-7/8	13-3/8	2-5/8	JR1210	477/100	230020	230021	JR1210A	517/100
3/4	12-3/4	15	2-1/2	Jr1212	551/100	230020	23021	JR1212A	591/100

**Round Bend U-Bolt Assemblies - Zinc Plated**

Not Illustrated  
Zinc Plated U-bolt  
Assembly includes  
bolt and hex nuts

Description				Part Number	Weight
A	B	C	D		
1/4-20	1-1/4	2-1/4	1-3/8	JR45A	12/100

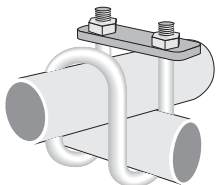
**Square Bend U-Bolt Assemblies - Hot Dip Galvanized**



Assembly includes bolt, hex nuts and pal nuts

Description				Part Number	Weight
A	B	C	D		
1/2	3-1/4	4-3/8	1-1/4	JR811A	73/100
1/2	4-1/4	5-5/16	1-1/4	JR812A	87/100
1/2	4-1/4	5-13/16	1-3/4	JR812LA	91/100
3/4	6-1/4	8-1/2	2-1/2	JR12685SQA	277/100
1/2	6-1/4	7-13/16	1-3/4	JR815A	120/100

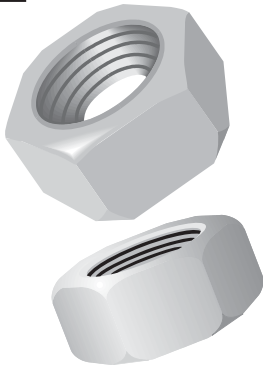
**Double Bend U-Bolt Assemblies - Hot Dip Galvanized**



Description	Part Number	Weight
5/16" (-18THD)/ ( for 1-1/4" to 1-1/4" tubing)	TB5125BA	54/100
Pal Nut, 5/16" (-18THD) (Optional)	230001	1/100
1/2" (18THD)/ for 2" to 2" pipe	TB8250	1.7
Backing Plate for TB8250	BP8250	1

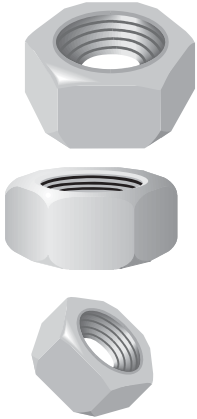


**Nuts, Heavy Hex - Hot Dip Galvanized**



Description	Part Number	Weight
3/8"-16	230005	4/100
1/2"-13	230013	8/100
5/8"-11	230018	12/100
3/4"-10	230020	19/100
7/8"-9	230026	29/100
1" -8	230030	41/100

**Nuts, Finished Hex - Zinc Plated**

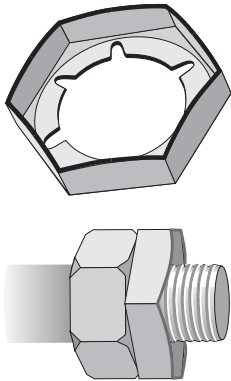


Description	Part Number	Weight
1/4" -20	240005	1/100
1/4" -28	240009	1/100
5/16"-18	240014	1/100
5/16"-24	240016	1/100
3/8"-16	240021	2/100

**Nuts, Finished Hex - Hot Dip Galvanized**

Description	Part Number	Weight
5/16" -18	230002	84/100
7/16" -14	230009	3/100

**Locking Pal Nuts - Hot Dip Galvanized**



Description	Part Number	Weight
5/16" -18	230001	1/100
3/8" -16	230007	1/100
1/2" -13	230011	1/100
5/8"-11	230017	1/100
3/4"-10	230021	2/100
7/8"-9	230025	3/100
1" -8	230029	5/100

Palnuts thread down bolt, tightening against the nut to prevent the nut from loosening. Open side of Palnut faces out.

**Nuts, Anco Lock - Hot Dip Galvanized**

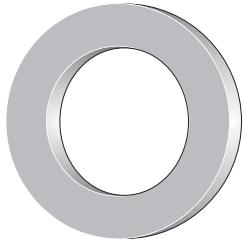


Description	Part Number	Weight
3/8" -16	230008	2/100
1/2" -13	230015	7/100
5/8"-11	230019	12/100
3/4"-10	230022	19/100
7/8"-9	230027	30/100
1" -8	230028	43/100



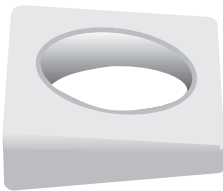


### Flat Washers, SAE - Hot Dip Galvanized



Description	Part Number	Weight
5/16"	250005G	1/100
3/8"	250008G	1/100
9/16"	250011G	2/100
5/8"	250012G	3/100
3/4"	250017G	5/100
7/8"	250032G	6/100
1"	250018G	8/100

### Beveled Washers - Hot Dip Galvanized



Description	Part Number	Weight
3/8"	250040G	7/100
1/2"	250010G	7/100
5/8"	250013G	15/100
3/4"	250016G	6/100
7/8"	250062G	14/100
1"	250077G	31/100

### Ringfills - Hot Dip Galvanized



Description			Part Number	Weight
Thickness	ID	OD		
1/4	11/16	2	KH390	.2
5/16	11/16	2	KH3423	.26
3/8	9/16	1-1/2	KH386	.16
3/8	11/16	1-1/2	KH391	.14
7/16	13/16	2	Kh3424	.34



## GUY MATERIALS

### Thimbles - Hot Dip Galvanized



Description	Part Number	Weight
1/4" Standard Wire Rope Thimble, Open (for 1/8" to 3/16" wire with cable clamps)	1/4TH	4/100
5/16" Heavy Duty Wire Rope Thimble Open (for 3/16" wire with Big-Grips)	5/16THH	12/100
3/8" Standard Wire Rope Thimble Open (for 1/4" wire with cable clamps)	3/8TH	6/100
3/8" Heavy Duty Wire Rope Thimble Open (for 1/4" wire with Big-Grips or 5/16" wire with cable clamps)	3/8THH	25/100
7/16" Heavy Duty Wire Rope Thimble Open (for 5/16" wire with Big-Grips)	7/16THH	30/100
1/2" Heavy Duty Wire Rope Thimble Open (for 3/8" or 7/16" wire with cable clamps or 3/8" wire with Big-Grips)	1/2THH	51/100
9/16" Heavy Duty Wire Rope Thimble Open (for 7/16" wire with Big-Grips)	9/16THH	51/100
5/8" Heavy Duty Wire Rope Thimble Open (for 1/2" or 9/16" wire with cable clamps or Big-Grips)	5/8THH	75/100
3/4" Heavy Duty Wire Rope Thimble Open (for 5/8" wire with cable clamps or Big Grips)	3/4THH	147/100
7/8" Heavy Duty Wire Rope Thimble Open (for 3/4" wire with Big-Grips)	7/8THH	175/100
1" Heavy Duty Wire Rope Thimble Open (for 7/8" wire with Big Grips)	1THH	275/100

### Cable Clamps - Hot Dip Galvanized



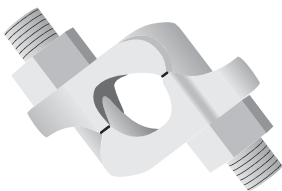
Malleable Cable Clamp



Forged Cable Clamp

Description	Part Number	Weight
1/8" Cable Clamp, Malleable (3 per turnback)	1/8CCM	3/100
3/16" Cable Clamp, Malleable (3 per turnback)	3/16CCM	8/100
1/4" Cable Clamp, Malleable (3 per turnback)	1/4CCM	12/100
3/16" Cable Clamp, Forged (3 per turnback)	3/16CCF	10/100
1/4" Cable Clamp, Forged (3 per turnback)	1/4CCF	20/100
5/16" Cable Clamp, Forged (3 per turnback)	5/16CCF	30/100
3/8" Cable Clamp, Forged (3 per turnback)	3/8CCF	47/100
7/16" Cable Clamp, Forged (4 per turnback)	7/16CCF	76/100
1/2" Cable Clamp, Forged (4 per turnback)	1/2CCF	80/100
9/16" Cable Clamp, Forged (4 per turnback)	9/16CCF	104/100
5/8" Cable Clamp, Forged (4 per turnback)	5/8CCF	106/100
1-1/4" Cable Clamp, Forged (6 per turnback)	11/4CCF	430/100
1-3/8" Cable Clamp, Forged (7 per turnback)	13/8CCF	460/100

### Fist Grips - Hot Dip Galvanized



Description	Part Number	Weight
1/2" Fist Grip (4 per turnback)	1/2FG	70/100
5/8" Fist Grip (4 per turnback)	5/8FG	100/100
3/4" Fist Grip (5 per turnback)	3/4FG	175/100
7/8" Fist Grip (5 per turnback)	7/8FISTGR	225/100

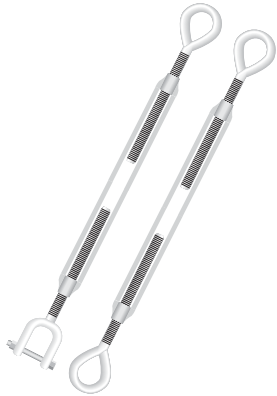


### Anchor Shackles, Round Pin



Description	Part Number	Weight
3/8" (1 ton safe working load)	3/8S	25/100
1/2" (2 ton safe working load)	1/2S	70/100
5/8" (3-1/4 ton safe working load)	5/8S	150/100
3/4" (4-3/4 ton safe working load)	3/4S	232/100
7/8" (6-1/2 ton safe working load)	7/8S	340/100
1" (8-1/2 ton safe working load)	1S	500/100
1-1/8" (9-1/2 ton safe working load)	11/8S	700/100
1-1/4" (12 ton safe working load)	11/4S	975/100

### Turnbuckles - Hot Dip Galvanized



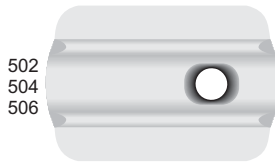
Description	Part Number	Weight
3/8"x6" Eye&Eye Turnbuckle (6,000 lbs. ultimate strength)	3/8TBE&E	1
3/8"x6" Eye & Jaw Turnbuckle (6,000 lbs. ultimate strength)	3/8TBE&J	1
1/2"x12" Eye & Eye Turnbuckle (11,000 lbs. ultimate strength)	1/2TBE&E	2
1/2"x12" Eye&Jaw Turnbuckle (11,000 lbs. ultimate strength)	1/2TBE&J	2
5/8"x12" Eye & Jaw Turnbuckle (17,500 lbs. ultimate strength)	5/8TBE&J	4
3/4"x12" Eye & Jaw Turnbuckle (26,000 lbs. ultimate strength)	3/4TBE&J	5
7/8"x12" Eye & Jaw Turnbuckle (36,000 lbs. ultimate strength)	7/8TBE&J	8
1"x12" Eye & Jaw Turnbuckle (50,000 lbs. ultimate strength)	1TBE&J	11
1-1/4"x18" Eye&Jaw Turnbuckle (76,000 lbs. ultimate strength)	11/4x18TB	24
1-1/2"x18" Eye&Jaw Turnbuckle (107,000 lbs. ultimate strength)	11/2x18TB	35
1-3/4"x18" Eye&Jaw Turnbuckle (140,000 lbs. ultimate strength)	13/4x18TB	54

### Eyebolt - Hot Dip Galvanized

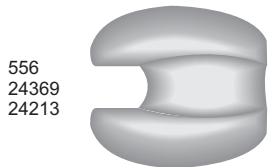


Description	Part Number	Weight
5/8" x 18" Eye Bolt with nuts	260004P	2

### Guy Strain Insulators, Porcelain



502  
504  
506

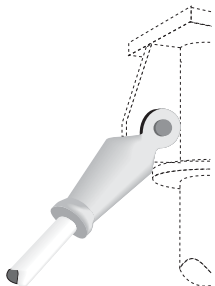


556  
24369  
24213

Description	Part Number	Weight
Porcelain Guy Strain Insulator (10,000 lbs. ultimate strength)	502	1
Porcelain Guy Strain Insulator (12,000 lbs. ultimate strength)	504	1-1/2
Porcelain Guy Strain Insulator (20,000 lbs. ultimate strength)	506	3
Porcelain Guy Strain Insulator (33,000 lbs. ultimate strength)	559	5
Porcelain Guy Strain Insulator (42,000 lbs. ultimate strength) (special order only)	24369	4-1/2
Porcelain Guy Strain Insulator (57,000 lbs. ultimate strength) (special order only)	24213	7

To arrive at safe working load for insulators appropriate safety factor must be applied.

### Insulators, 24 Feet Long

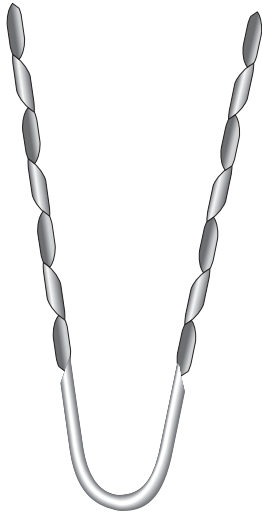


Description	Part Number	Weight
24' Fiberglass Insulator(15,000 lbs. ultimate strength) For use with 3/16" to 3/8" EHS guy wire	500288	20
24' Fiberglass Insulator(30,000 lbs. ultimate strength) For use with 3/16" to 1/2" EHS guywire	703288	34
24' Fiberglass Insulator(36,000 lbs. ultimate strength) For use with 3/16" to 9/16" EHS guy wire	360288	40
24' Fiberglass Insulator(80,000 lbs. ultimate strength) For use with 9/16" through 7/8" EHS guy wire	800288	60

To arrive at safe working load for insulators appropriate safety factor must be applied.



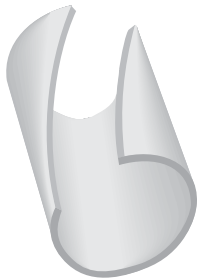
### Big Grips - Hot Dip Galvanized



Description	Part Number	Weight
3/16" Galvanized Big-Grip with end sleeve	BG2142	33/100
1/4" Galvanized Big-Grip with end sleeve	BG2144	50/100
5/16" Galvanized Big-Grip with end sleeve	BG2146	82/100
3/8" Galvanized Big-Grip with end sleeve	BG2147	112/100
7/16" Galvanized Big-Grip with end sleeve	BG2148	188/100
1/2" Galvanized Big-Grip with end sleeve	BG2115	315/100
9/16" Galvanized Big-Grip with end sleeve	BG2116	480/100
5/8" Galvanized Big-Grip with end sleeve	BG2111	650/100
3/4" Galvanized Big-Grip with end sleeve	BG2112	1080/100
7/8" Galvanized Big-Grip with end sleeve	BGMS7023	1125/100
1" Galvanized Big-Grip with end sleeve for use with 1" EHS and with 1" Bridgestrand when capacity does not exceed 104.5 KIPS	BGMS7047	2540/100
1" Rocket Socket with Ear Clamp for use with 1" Bridgestrand when capacity does not exceed 122KIPS	RK0516	46
Guy Link, required for Rocket Socket	GL11/4	73/100

End sleeves must be used on all Big-Grips. See Drawing B700607 for procedure to apply end sleeve.  
 Oversized heavy duty thimbles must be used with all Big-Grips. Thimbles are not required when using Rocket Sockets.  
 Rocket Socket requires Guy Link at guy wire to tower connection.

### End Sleeves - Hot Dip Galvanized



Description	Part Number	Weight
3/16"	GC65303	3/100
1/4"	GC65136	3/100
5/16"	GC65128	3/100
3/8"	GC65264	5/100
7/16"	GC65265	7/100
1/2"	GC65266	10/100
9/16"	GC65267	11/100
5/8"	GC65268	14/100
3/4"	GC65269	21/100
7/8"	GC65270	27/100
1"	Gc65271	32/100

### Guy Wire - Hot Dip Galvanized



Description	Part Number	Weight
3/16" EHS x 500' coil (3,990 lbs. breaking strength)	3/16EHS500	73/MFT
3/16" EHS x 1,000' coil (3,990 lbs. breaking strength)	3/16EHS1000	73/MFT
3/16" EHS x cut length (3,990 lbs. breaking strength)	3/16EHS	73/MFT
1/4" EHS x 500' coil (6,650 lbs. breaking strength)	1/4EHS500	120/MFT
1/4" EHS x 1,000' coil (6,650 lbs. breaking strength)	1/4EHS1000	120/MFT
1/4" EHS x cut length (6,650 lbs. breaking strength)	1/4EHS	120/MFT
5/16" EHS x cut length (11,200 lbs. breaking strength)	5/16EHS	205/MFT
3/8" EHS x cut length (15,400 lbs. breaking strength)	3/8EHS	273/MFT
7/16" EHS x cut length (20,800 lbs. breaking strength)	7/16EHS	399/MFT
1/2" EHS x cut length (26,900 lbs. breaking strength)	1/2EHS	517/MFT
9/16" EHS x cut length (35,000 lbs. breaking strength)	9/16EHS	671/MFT
5/8" EHS x cut length (42,400 lbs. breaking strength)	5/8EHS	813/MFT
3/4" EHS x cut length (58,300 lbs. breaking strength)	3/4EHS	1155/MFT
7/8" EHS x cut length (79,700 lbs. breaking strength)	7/8EHS	1581 MFT
1" Structural strand x cut length (122,000 lbs. breaking strength)	1BS	2100MFT

To arrive at safe working load for guy wire appropriate safety factor must be applied.  
 There is an additional charge for coiling large quantities of individual length guy wire onto wooden spools for shipment.  
 ROHN reserves the right to charge for cutting.



**Anchor Rods**

Part No.	Equalizer Plate Type	Dimensions in inches						Weight (Lbs.)	Allowable Load (Lbs.)*
		L	A	B	C	D	T		
GAR30	eye	84	1		2	5/8		9	7,330
GAC303	EE	84	2			5/8	3/16	13	7,330
GAC305	EE	84	2			5/8	3/16	14	7,330
GAC345501	EJ	84	2	12	2-1/2	3/4	3/8	25	17,670
GAC565501	EJ	120	2-1/2	12	3	1-1/4	1/2	65	49,060
GAG575501	EJ	168	3	12	4	1-7/16	3/4	125	64,800
GAC585501	EJ	192	4	12	6	1-1/4	1	220	98,100
GAC595501	EJ	240	4	18	6	1-7/16	1	310	129,700

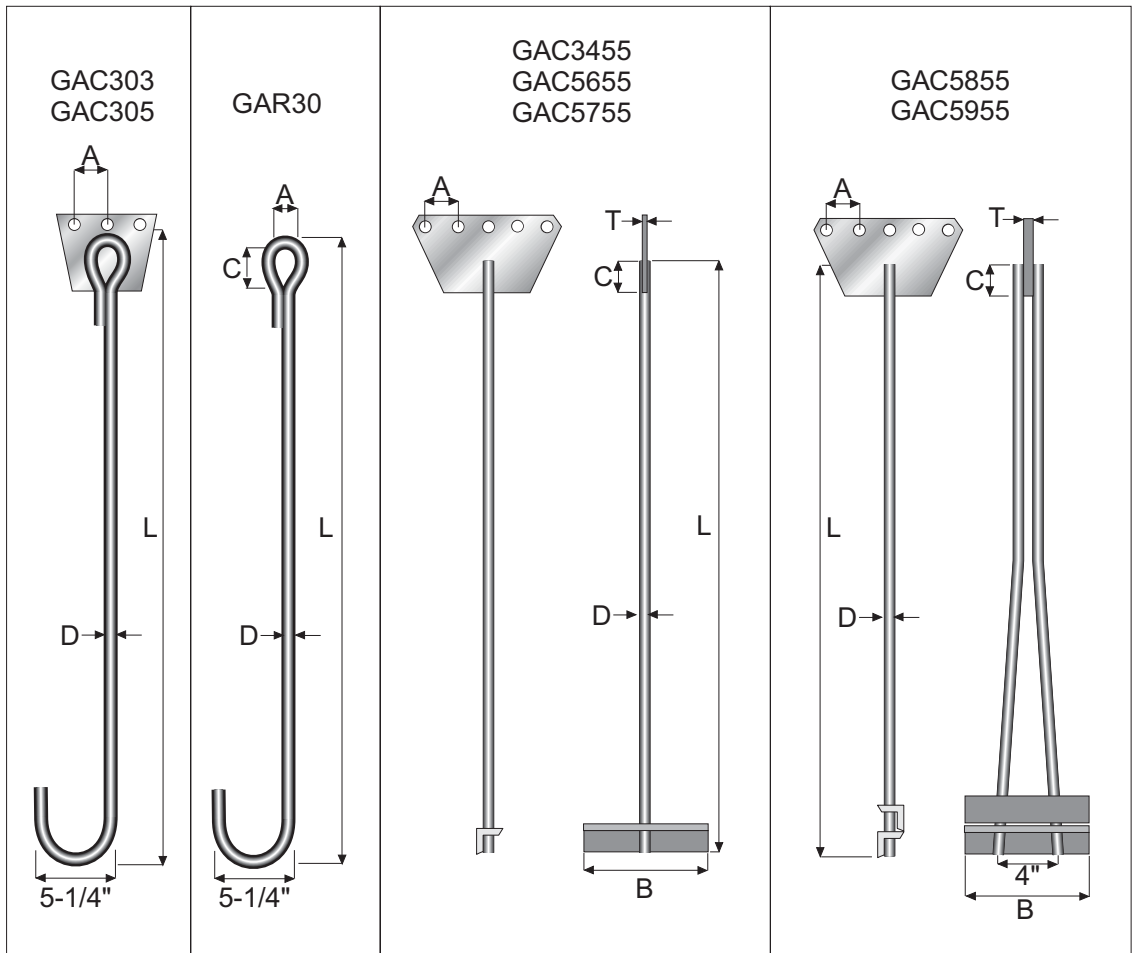
\*Allowable load includes a 33-1/3% increase in allowable stresses.

Type EJ equalizer plates are used with eye and jaw turnbuckles.

Type EE equalizer plates are supplied in pairs for eye and eye turnbuckles.

Part number suffixes 3,5, and 55 denote 3, or 5 holes in plates.

Type GAC30 or GAC305 rods are supplied with type EP25343 or EP25345 equalizer plates.



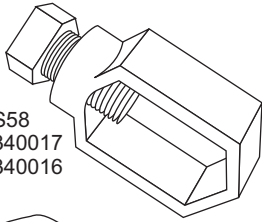
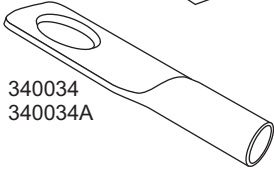
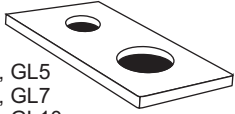
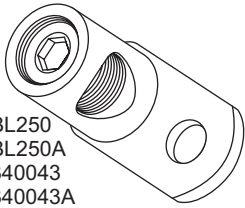
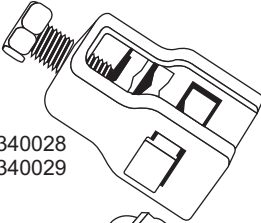
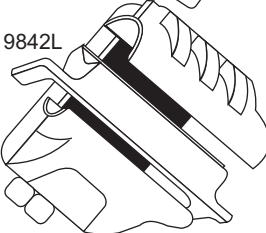
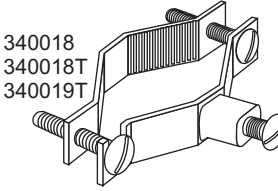
**Screw Anchor - Hot Dip Galvanized**

Description	Part Number	Weight
5/8" x 4' Screw Anchor (2,500 lb. holding power)	GAS604	7



## GROUNDING

### Ground Lugs and clamps

	Description	Part Number	Weight
 S58 340017 340016	Galvanized clamp for 5/8" galvanized ground rod	S58	16/100
	Bronze clamp for 5/8" copper ground rod	340017	18/100
	Bronze clamp for 3/4" copper ground rod	340016	25/100
	Tinned clamp for 3/4" copper ground rod	340016T	25/100
 340034 340034A	Hy-Lug, Burndy to #4 wire	340034	3/100
	Hy-Lug with 3/8" bolt & nut, Burndy to #4 wire	340034A	11/100
 GL4, GL5 GL6, GL7 GL8, GL10	Ground lug with 7/16 attachment hole and 1/2" bolt hole	GL4	42/100
	Ground lug with 7/16 attachment hole and 5/8" bolt hole	GL5	45/100
	Ground lug with 7/16 attachment hole and 3/4" bolt hole	GL6	59/100
	Ground lug with 7/16 attachment hole and 7/8" bolt hole	GL7	64/100
	Ground lug with 7/16 attachment hole and 1" bolt hole	GL8	64/100
	Ground lug with 7/16 attachment hole and 1-1/2" bolt hole	GL10	143/100
 BL250 BL250A 340043 340043A	Ground Lug, #2 through #4/0 wire	BL250	16/100
	Ground Lug with 1/4" bolt, nut, washer, #2 thru #410 wire	BL250A	20/100
	Ground Lug, #14 through #4 wire	340043T	3/100
	Ground Lug with 1/4" bolt, nut, washer, #14 thru #4 wire	340043A	6/100
 340028 340029	Guy wire ground clamp (for use with 3/16 - 1/2 guy wire)	340028	14/100
	Guy wire ground clamp (for use with 9/16 - 3/4 guy wire)	340029	38/100
 9842L	Guy wire ground clamp (for use with 718 - 1 guy wire)	9842L	76/100
 340018 340018T 340019T	Round member ground clamp (for 1/2" to 1" O.D.)	340018	30/100
	Round member ground clamp, tinned (for 1/2" to 1" O.D.)	340018T	100/100
	Round member ground clamp, tinned (for 1-1/2" to 2-3/8" O.D.)	340019T	100/100
	Thompson Clamp #423T for 2/0 to 2/0	340079T	





## Wire and Strap, Copper



Description	Part Number	Weight
#10 solid copper wire	CW10S	32/MFT
#6 solid copper wire	CW6S	80/MFT
#4 stranded copper wire	CW4ST	129/MFT
#4 solid copper wire	CW4S	127/MFT
#2 solid copper wire	CW2S	201/MFT
#1/0 stranded copper wire	CW1/0ST	326/MFT
#2/0 stranded copper wire	CW2/0ST	411/MFT
#4/0 stranded copper wire	CW4/0ST	653/MFT
2" x .021 copper strap	340039*	168/MFT
3" x .021 copper strap	340040*	251/MFT
4" x .021 copper strap	340041*	335/MFT
8' x 24' copper ground screen	340007*	32

\*Stock levels vary. Allow sufficient time for delivery.

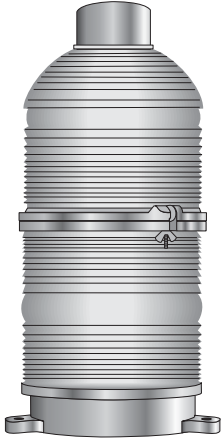
## Ground rods and Lightning Rods

Description	Part Number	Weight
3/8" x 4' copper clad ground rod with clamp	GR384	160/100
3/8" x 4' galvanized ground rod with clamp	GR384Z	172/100
3/8" x 6' copper clad ground rod with clamp	GR386	235/100
3/8" x 6' galvanized ground rod with clamp	GR386Z	258/100
5/8" x 8' copper clad ground rod	340020	800/100
5/8" x 10' copper clad ground rod	340021	1045/100
3/4" x 10' copper clad ground rod (THD)	340024	1500/100
5/8" x 8' copper clad ground rod, plain end, with ground wire clamp	GR8C	82/100
5/8" x 8' galvanized ground rod with ground wire clamp	GR8G	90/100
3/4" x 10' copper clad ground rod (THD) w/ ground wire clamp	GR10C	133/100
3/4" ground rod coupler	3/4C	80/100
7/8" x 6' solid aluminum lightning rod	LR	6
5/8" x 5' copper clad lightning rod	LRCL	4



## LIGHTING

### Beacons and Lenses



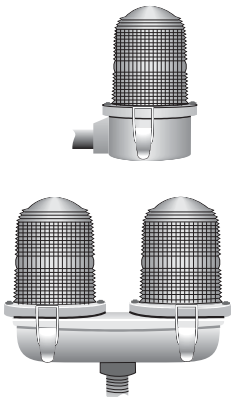
Description	Part Number	Weight
Beacon (red glass)	B1R	77
Upper Beacon Lens, red	AP3557	6
Center Beacon Lens, red	AP3556	14
Lower Beacon Lens, red	AP3555	11
Two lower red beacon lenses - glued	AP3555/5	22
One upper red beacon lens & one center red beacon lens - glued	AP3556/7	20
Clear Glass Silicon Sealant (glue)	550020	3 oz.

### Ice Shields and Beacon Mounts



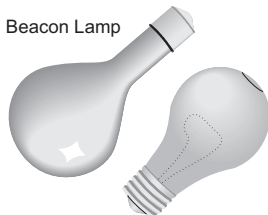
Description	Part Number	Weight
Heavy Duty Ice Shield for beacon. Framework construction with heavy grating attaches to tower leg above beacon.	ISBEACON	43
Beacon Leg Mount for sections not listed below	APL1258UM	31
Beacon Leg Mount for 1W or 2W tower section	APL1W2WA	26
Beacon Leg Mount for 3WN tower section	APL3WNA	26
Beacon top mounting plate for 4 inch flange plate	APL4A	14
Beacon top mounting plate for 4.5 inch flange plate	APL4HA	17
Beacon top mounting plate for 5 inch flange plate	APL5A	18
Beacon top mounting plate for 6 inch flange plate	APL6A	20
Beacon top mounting plate for 7 inch flange plate	APL7A	24

### Obstruction Lights



Description	Part Number	Weight
Obstruction Light, Single (red)	OB1	4
Obstruction Light, Double (red)	OB2	8
Obstruction Light Red Lens	530230	2

### Lamps

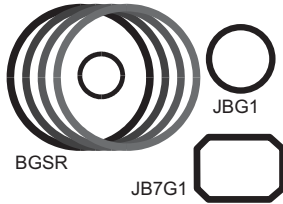


Description	Part Number	Weight
Beacon Lamp (3,000 hour) - 120 volt	B620W	2/24
Obstruction Light Lamp (8,000 hour) - 120 volt	OB116W	12/120
Obstruction Light Lamp (2,000 hour) - 230 volt	OB100W	12/120



### Color Screen

Description	Part Number	Weight
Color Screen (red)	711130	4



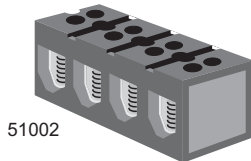
### Gaskets

Description	Part Number	Weight
Set of Beacon Gaskets, consists of: 2 BGB1, 1 BGMI, 1 BGT1, and BGT2	BGSR	1
JB4 Junction Box Gasket	JBG1	1/4
JB7 Junction Box Gasket	JB7G1	1/4
Obstruction Lens Gaskets	OBG1	1/4



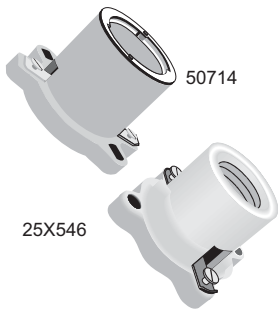
### Breathers

Description	Part Number	Weight
Conduit Breather	CB1	1/2



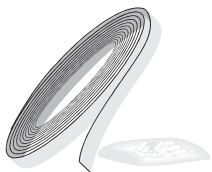
### Terminal Blocks

Description	Part Number	Weight
Terminal Block, 7 position	510003	37/100
Terminal Block, 4 position	510002	21/100
Terminal Block, 2 position	510001	11/100



### Receptacles

Description	Part Number	Weight
Beacon Lamp Receptacle, pre-focused mogulbase	23X546	1
OB Lamp Receptacle	50714	1/2



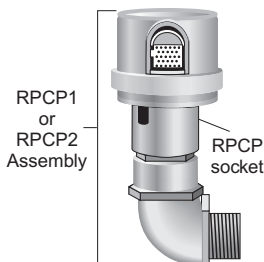
### Wraplock

Description	Part Number	Weight
Wraplock 1/2" x 100' stainless steel	WR100	3

Includes metal strapping, connectors and crimping tool

RPCP1 or RPCP2 Photo control

### Photo Control



Description	Part Number	Weight
Photocontrol with socket, 120 volt, suitable for outdoor use	RPH1P	4
Photocontrol with socket, 230 volt, suitable for outdoor use	RPH2P	4
Photocontrol only, 120 volt, less socket	RPCP1	.19
Photocontrol only, 230 volt, less socket	RPCP2	.19
Socket for RPCP1 and RPCP2	RPCPS	.55

RPH1P and RPH2P are complete assemblies, including locknuts, elbow and reducer required to connect to junction box.



Grounding Kits

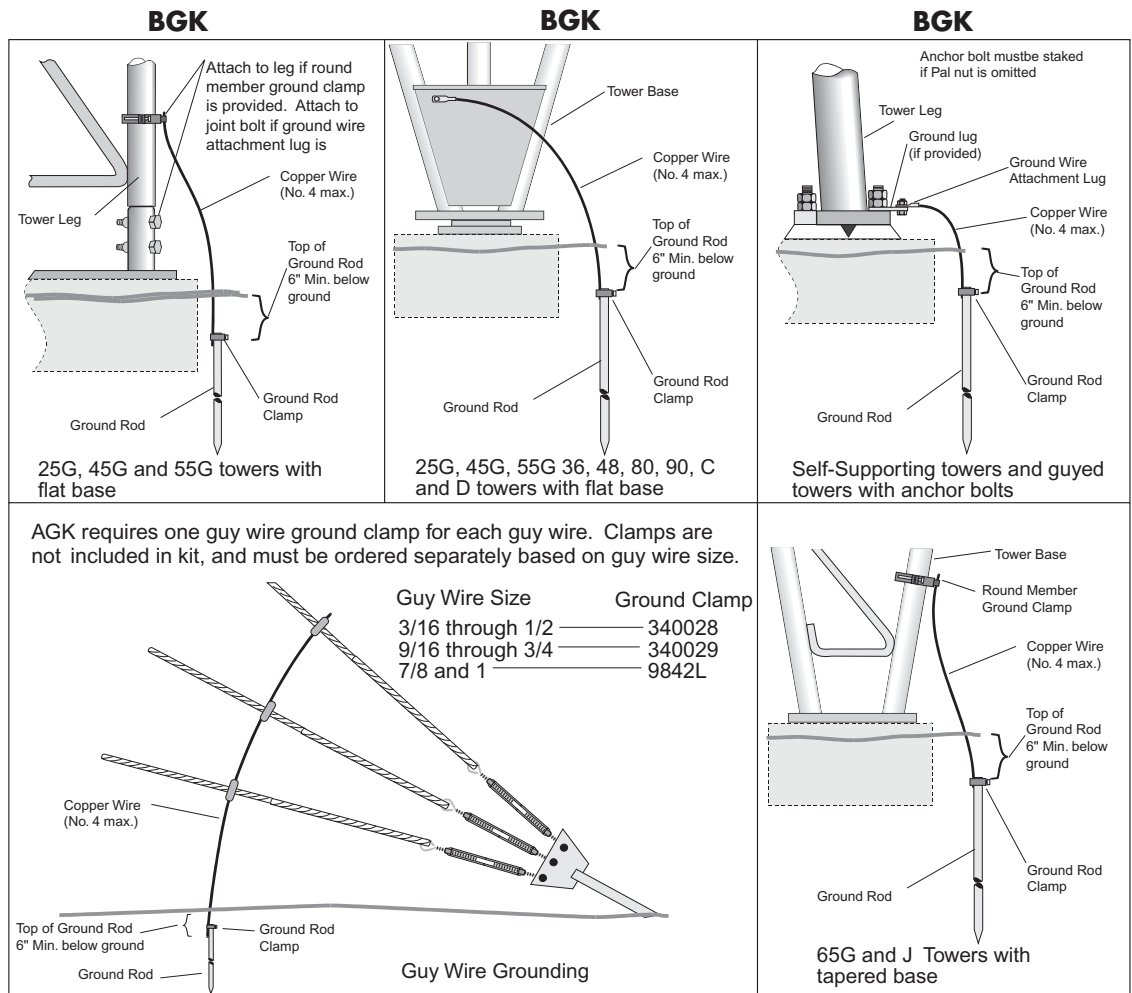
Description	Part Number	Weight
Base grounding kit consisting of: one 5/8" x 8' hot dip galvanized ground rod one brass tower attachment lug with hardware one brass rod clamp ten feet of #4 solid copper wire		
For 80, 90 and C towers	BGK1G	11
For J, 55G and 65G towers	BGK2G	11
For 25G, 26KD and 45G towers	BGK3G	11
For 1/2 inch anchor bolts	BGK4G	11
For 5/8 inch anchor bolts	BGK5G	11
For 3/4 inch anchor bolts	BGK6G	11
For 7/8 inch anchor bolts	BGK7G	12
For 1 inch anchor bolts	BGK8G	12
Anchor wire grounding kit for 3 anchors consisting of: three 5/8" x 8' hot dip galvanized ground rods three brass rod clamps 45 feet of #6 stranded copper wire <i>Note: Requires nine guy wire ground clamps - not included</i>	AGK1G	33

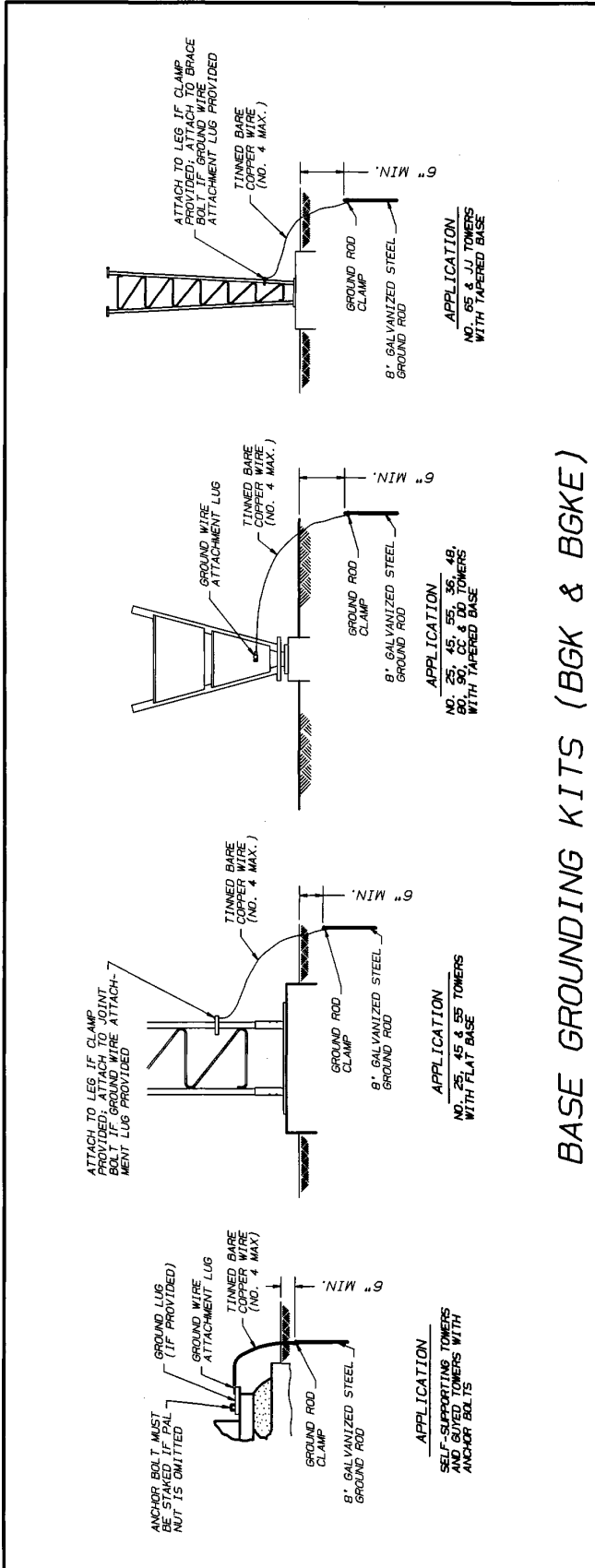
See drawings shown below for configurations. Note that towers and guy configuration shown are for general examples only and may not duplicate all possible installations.

Not all towers listed are current models.

Models 36 and 48 and D are discontinued.

AGK requires one guy wire ground clamp for each guy wire. These clamps are not included in kit, and must be ordered separately

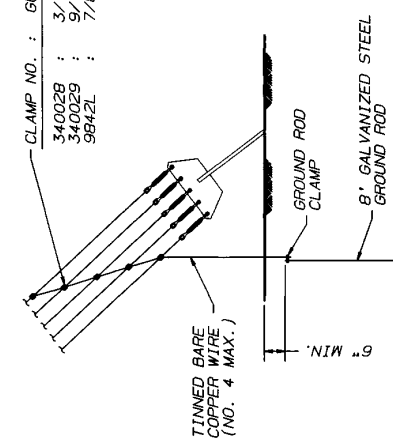




**BASE GROUNDING KITS (BGK & BGKE)**

CLAMP NO. : GUY WIRE SIZE \*

340028	: 3/16" - 1/2"
340029	: 9/16" - 3/4"
9842L	: 7/8" - 1" (SEE INSTALL. DETAIL B801367)



\* NOT INCLUDED IN GROUNDING KIT. MUST BE ORDERED AS A SEPARATE ITEM.

**ANCHOR GROUNDING KITS**

**GUY WIRE GROUNDING (AGK & AGKE)**

- GENERAL NOTES**
1. USE SUFFICIENT BEND RADIUS TO PREVENT KINKING OF THE GROUND WIRE.
  2. CUT WIRE TO PROPER LENGTHS. DO NOT COIL GROUND WIRE.

RS	REV.	PER	ANSI/TIA/EIA-222-F	1-2-98	JDM	WGL	RA
No. ▲		Revision Description		Date ▲	Rev. By ▲	Chd. By ▲	App. By ▲
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.							
Scale: NONE		By: JER	Date: 11-20-73	<b>ROHN</b>			
Drawn: JER		By: WDU	Date: 11-27-73	<b>TOWER GROUNDING METHODS</b>			
Checked: WDU		By: CW	Date: 11-27-73	<b>ENG. FILE: C731105 R5</b>			
App. Eng.: CW		By: MF	Date: 12-7-73				

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# INSTALLATION ACCESSORIES



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

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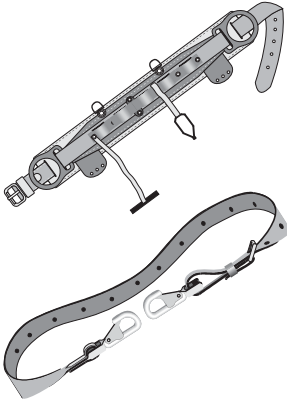
## MISCELLANEOUS

### ROHN-Loc Harness

Description	Part Number	Weight
ROHN-LOC belt and safety clamp (Includes lanyard, 3 D-rings, and pouch):		
X-Small (waist size 32-40)	RLBELTXS	7.5
Small (waist size 32-40)	RLBELTS	7.5
Medium (waist size 36-44)	RLBELTM	7.5
Large (waist size 40-48)	RLBELTL	7.5
X-large (waist size 46-54)	RLBELTXL	8.0

### Belts

Description	Part Number	Weight
Tool and safety belt, 6 ply nylon:		
20" - see sizing instructions below	ETTSBS	4.75
22" - see sizing instructions below	ETTSBM	4.75
24" - see sizing instructions below	ETTSBL	4.75
To determine correct size measure across back, hip to hip, add 2".		
.		
Safety belt, nylon w/2 D rings & nylon lanyard (no tool capacity):		
Small (not illustrated)	ETNSBS	1.2
Medium (not illustrated)	ETNSBM	1.2
Large (not illustrated)	ETNSBL	1.2



### Safety Strap

Description	Part Number	Weight
Safety Strap, nylon filament, neoprene impregnated	ETSTRAP	3



### Bucket

Description	Part Number	Weight
Bucket, 17" high, No. 1 canvas with cyclac top ring (reinforced leather bottom)	ETCBKT	3

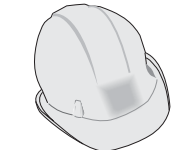


### Bolt Bag

Description	Part Number	Weight
Bolt bag, belt, 10"x 11" water repellent canvas	ETBAG	.4

### Hard Hat

Description	Part Number	Weight
Hard hat, adjustable	ETHH	1



### Gloves

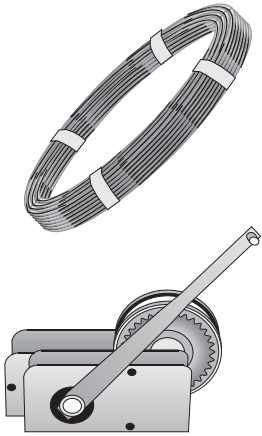
Description	Part Number	Weight
Gloves, leather, shirred elastic wrist	ETLG	1



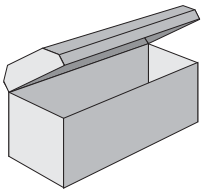


# Hardware/ Installation Accessories

## Cables and Winches



Description	Part Number	Weight
3/8" stainless steel aircraft cable 1x7 15,000 lbs ultimate strength	RLCSS	30/CFT
1/4" galvanized aircraft cable 7x19 7,000 lbs. ultimate strength	1/4GAC	11/CFT
Brake winch, 2,500 lb. lifting capacity Other winches listed in Erection Tool section	B2503	16



## Toolbox

Description	Part Number	Weight
Tool box, 22"x10"x10" (approximate size)	ETTBL	5

## Beam Clamp

Description	Part Number	Weight
3/8" beam clamp	BC38	30/100
1/2" beam clamp	BC12	40/100



## Paints and Supplies

Description	Part Number	Weight
Tower paint, orange, acrylic latex	PNTNP05	11/GAL
Tower paint, white, acrylic latex	PNTNPW9	11/GAL
Cold Galvanize, spray	380063	1
Cold Galvanize, quart can	380065	6/QT.
Paint mitt, with thumb	ETPM	.25



## ROHN NO PRIME WATER BASE TOWER PAINT for use on untreated galvanized surfaces

### Cut Your Installation Costs

Tower White and Tower Orange are protective coatings formulated with a vinyl/acrylic emulsion resin providing long-term protection and performance. These coatings offer excellent resistance to weathering, ease of application and freedom from fire hazard. Meets FAA regulations for color coding transmission towers. Federal Standard No. 595 Colors, 12197 and 17875.

### Preparation

Galvanized Surfaces: It is not necessary to etch or weather new galvanized surfaces. Remove all deteriorated coatings by scraping or wirebrushing. Remove grease, oil, salt, white rust, or dirt by washing with a suitable detergent solution. No primer necessary except where galvanizing has been damaged, then spot prime with zinc dust primer.

### Application

These products are formulated specifically for application to galvanized steel towers by paint mittens, air atomized spray or airless spray. May be applied as a one coat system. However, to assure maximum color uniformity and hiding, application of an additional coat may be desired. Will also perform well over uncoated galvanized metal surfaces and wood.

Clean Up With Soap and Water	
Physical Characteristics	
Type Vehicle	Blended Vinyl Acrylic Emulsion
Type Solvent	Water
Flash Point	Non-Flammable
Contains No Lead	
Heat Resistance	180° F, 82° C
Finish	Flat
Drying Time at 70° F (21°C) and 50% Relative Humidity	
Touch	1 hour
Recoat	2-4 hours
Hard	3-4 weeks
Coverage	200-400 Square feet per gallon at the recommended dry film thickness of 1-2 mils.
Order PNTNP05 (orange) or PNTNPW9 (white) 11#/gallon	

March 15, 1992

### ROHN Tower Field Treating & Painting Specifications

All instruments of authorization for tower licensing, wherever antenna structures must be painted, clearly outline the manner in which such structures are to be marked. Under no circumstances is there to be any deviation, as F.C.C.'s Field Engineering & Monitoring Bureau has a tight inspection schedule and could issue violation notices to licensees who have not complied.

The pertinent rule section to be observed is:

**Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be approximately one-seventh the height of the structure; however, the bands shall not be more than 100 feet nor less than 1-1/2 feet in width. All towers shall be cleaned or repainted as often as necessary to maintain good visibility.**

Suggested procedures for treating and painting towers in the field are:

#### 1. Treating Galvanized Surfaces for Oil Based Paints:

- Prior to painting, the surface of all tower parts shall be treated by applying with a brush a chemical solution containing the following:
  - 2 ounces each – Copper Chloride/Copper Nitrate/Sal Ammoniac, available from ROHN in one package (ROHN Part Number T1)
  - 2 ounces Muriatic Acid, obtain locally (Note: Muriatic Acid is extremely dangerous and should be treated carefully. Wear protective clothing, i.e. gloves, face masks/shields, glasses, etc. Follow the instructions on the container. ROHN takes no responsibility for improper use of Muriatic Acid).
  - 1 gallon water

2. The treated surfaces shall again be washed with plain water and allowed to completely dry before applying any paint.

#### 3. Applying Paint:

All surfaces of all parts of the tower, including any exposed steel of the anchors, turnbuckles and cable clamps, shall be painted, except the guy wires and accessories, such as antennas, ladders, bottom of flanges, lights and cables. All bolts and nuts, which have not been painted during assembly shall be painted after erecting.

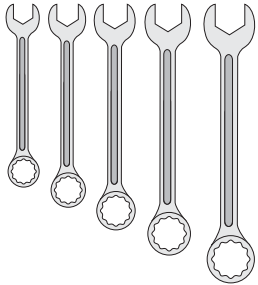
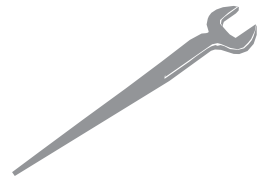
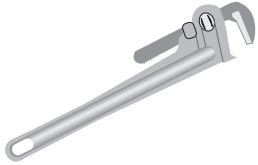
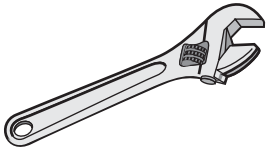
The paint shall be applied by brushing or spraying, depending on conditions or the erector's option. All surfaces shall be uniformly covered, with no streaks or incompletely covered surfaces permitted.

Before painting, all surfaces shall be clean and free from all foreign matter. All painting shall be done in dry weather for best results. Paint shall not be applied on wet surfaces, nor when the relative humidity exceeds 80%, or when the temperature of the surrounding air or the surface to be painted is 50° F or below.

Steel shall not be handled until paint is thoroughly dry. After erection, the tower paint shall be carefully touched up, assuring proper coverage of all areas to be painted.

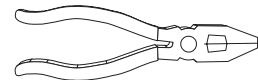
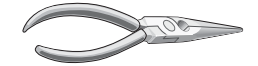
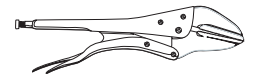


## Wrenches



Description			Part Number	Weight
Adjustable wrench, drop forged alloy steel, heat treated:				
10"			ETCRTW10	1
12"			ETCRTW12	1.5
18"			ETCRTW18	5.5
Straight pipe wrench, malleable iron I-beam handle:				
10"			ETHDPW10	3
12"			ETHDPW12	4
Construction wrench with drifting and aligning handle:				
Bolt Size	Opening	Length		
1/2"	7/8"	12"	ETCTW7/8	1
5/8"	1-1/16"	14-3/4"	ETCTW11/16	1.75
3/4"	1-1/4"	17"	ETCTW11/4	2
7/8"	1-7/16"	17-5/16"	ETCTW17/16	2.75
1"	1-5/8"	17-11/16"	ETCTW15/8	3.75
Combination wrench set:				
1/2", 9/16", 5/8", 3/4", 7/8" openings, 5 pieces			ETCWSET	120/100

## Pliers and Grips

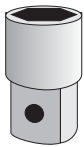
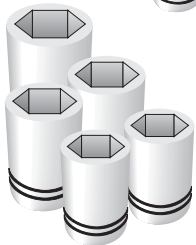
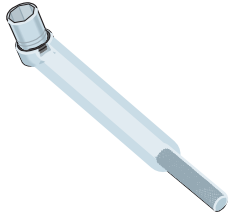


Description			Part Number	Weight
Locking plier/wrench, 10" straight jaws			ETLPW10	1.5
Thin nose pliers, 6"			ETTNP	.25
Side Cutters, 8" forged steel with polished steel finish			ETSC8	1
Channellock pliers, 12", forged, polished steel finish			ETCHP12	1.75
Cable grips:				
Maximum	Minimum	Maximum		
Cable Size	Cable Size	Safe Load		
.37"	.12"	4,500 lbs.	ETCG37	3
.75"	.37"	10,000 lbs.	ETCG75	4
1.00"	.75"	15,000 lbs.	ETCGI00	17



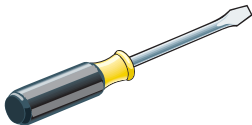


## Ratchets, Sockets and Socket Adapters



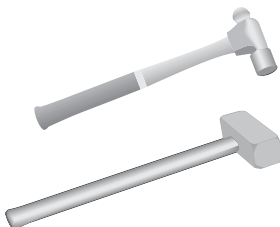
Description	Part Number	Weight
Reversible ratchet handles:		
3/8" drive, 7" handle	ETRRH738	70/100
1/2" drive, 10" handle	ETRRH1012	150/100
1/2" drive, 15" handle	ETRRH1512	320/100
3/4" drive, 19" handle	ETRRH1934	500/100
Sockets:		
3/8" Drive, deep set		
7/16"	ETDS7/1638	11/100
1/2"	ETDS1/238	10/100
9/16"	ETOS9/1638	16/100
5/8"	ETDS5/838	20/100
11/16"	ETDS11/1638	22/100
3/4"	ETDS3/438	28/100
13/16"	ETDS13/1638	30/100
7/8"	ETDS7/838	37/100
1/2" Drive, deep set		
7/16"	ETDS7/1612	23/100
1/2"	ETDS1/212	29/100
9/16"	ETDS9/1612	29/100
11/16"	ETDS11/1612	30/100
13/16"	ETDS13/1612	44/100
7/8"	ETDS7/812	51/100
15/16"	ETOS15/1612	58/100
1-1/16"	ETDS1&1/1612	80/100
1-1/8"	ETDS11/812	81/100
3/4" Drive, deep set		
1-1/4"	ETDS11/434	118/100
1-5/16"	ETDS15/1634	123/100
1-7/16"	ETDS17/1634	140/100
1-1/2"	ETDS11/234	174/100
1-5/8"	ETDS15/834	212/100
Socket Adapters:		
To convert 3/8" to 1/2"	ETSADAP38/122	13/100
To convert 1/2" to 3/8"	ETSADAP12/38	15/100
To convert 1/2" to 3/4"	ETSADAP12/34	31/100
To convert 3/4" to 1/2"	ETSADAP34/12	44/100

## Screwdrivers



Description	Part Number	Weight
Light blade, cabinet tip, 6" blade, 3/16" diameter, 9-1/16" length	ETSD3/16	15/100
Square blade, standard tip, 6" blade, 5/16" diameter, 10" length	ETSD5/16	30/100

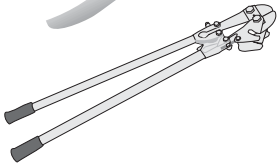
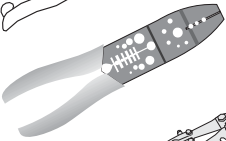
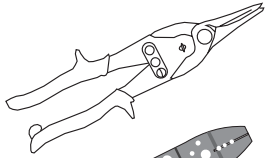
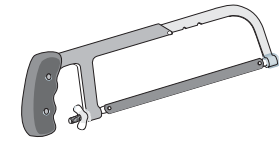
## Hammers



Description	Part Number	Weight
Ball peen hammer, 40 oz., 16" length, hickory handle	ETHAM40	3
Sledge hammer double face, 8 lbs. 32" handle 2-1/4" face	ETDFS8	8

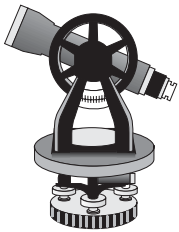
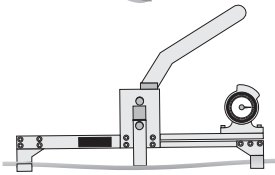
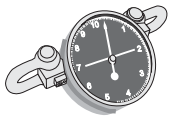


## Cutting and Stripping Tools



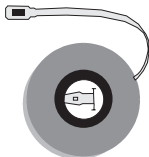
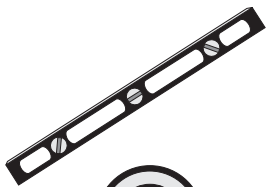
Description	Part Number	Weight
Hack saw, adjusts for 8" to 12" blades (10" provided), 3-1/4" depth of cut	ETHS10	1.6
Hack saw blades, set of ten 10" blades	ETHSB10	.4
Tin snips, drop-forged steel with polished jaws	ETTS10	1
Wire strippers, 7-1/2", cuts bolts & wire, strips wire, measures, gauges wire	ETWS1000	.5
Bolt/center cutters, cuts galvanized strand guy wire up to 1/2"	ETCCC1/2	18.75

## Dynamometers and Transits



Description	Part Number	Weight
Dial type, 10,000 lb. capacity, 100 lb. increments	ETDYNDE	16
Dial type, 5,000 kg. capacity, 50 kg. increments	ETDYNDM	16
Shunt type, for 5/16" to 3/4" guy strand	ETDYN750	4
Same as above with ET750SAD saddle	ETDYN750A	4
Saddle for measuring less than 5/16" guy strand, use with ETDYN750	ET750SAD	.33
Universal transit with compass and tripod	ETUT	25
Transit only	ETTRANSIT	10
Tripod only	ETTRIPOD	15

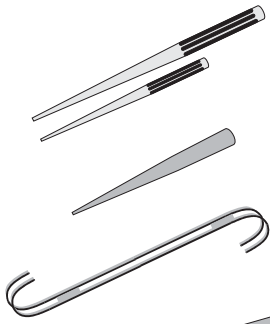
## Measuring Tools



Description	Part Number	Weight
Level, 3 position, 4' length, one piece magnesium, I-beam construction	ETL4	2
Protractor plumb and level, for installing guy anchors at proper slope	ETGAL	.4
Steel tape, 50' or 15 meters, metric and English	ETST15M/50	.8

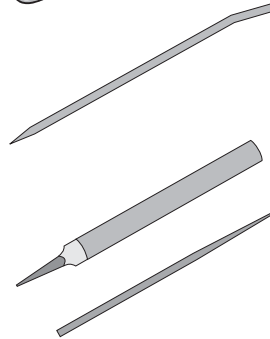


### Punches and Pins



Description	Part Number	Weight
Lining up punch, hexagon, 3/16" point, 1/2" stock, 10" length	ETLUP3/16	.5
Lining up punch, hexagon, 1/4" point, 3/4" stock, 15" length	ETLUP1/4	1
Bull pin, 15" long	ETBP3/8	2.25
Serving tool	CST1	3
Pinch bar, 5'	ETPB30	7

### Files and Rasps



Description	Part Number	Weight
File, rasp, half round	ETFILE	.4
File, 1/2" diameter round, 12" long	ETFILER	.33

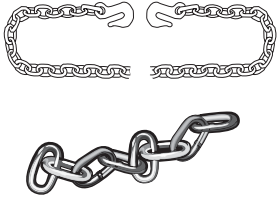
### Beacons and Lenses



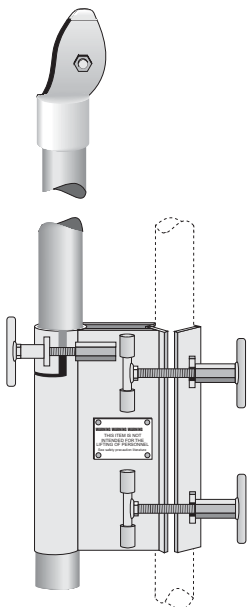
Description	Part Number	Weight
Chain hoist, heavy duty 6,000 lb., maximum lift 10', with hook latches	ETHDCH	45
Cable hoist, light duty 2 ton capacity, maximum lift 6', 3/16" aircraft type cable	ETLDCH	9
Hand winch, heavy duty, 2,000 lb. capacity, 735' 1/8" cable drum cap.	ETHW2000	
heavy duty, 4,000 lb. capacity, 460' 1/4" cable drum cap.	ETHW4000	
Choker sling, cable braided eye & eye		
3', 3/8", max. strength. 1,600 lbs.	ETCS3/8X3	1.8
6', 3/8", max. strength. 1,600 lbs.	ETCS3/8X6	2
15', 3/8", max. strength. 1,600 lbs.	ETCS3/8X15	5
30', 3/8", max. strength. 1,600 lbs.	ETCS3/8X30	8.8
3', 1/2", max. strength. 2,800 lbs.	ETCS1/2X3	2.4
6', 1/2", max. strength. 2,800 lbs.	ETCS1/2X6	4.8
15', 1/2", max. strength. 2,800 lbs.	ETCS1/2X15	12
30', 1/2", max. strength. 2,800 lbs.	ETCS1/2X30	24
Snatch block, 8,000 lb. safe working load, with hook	ETSB18HHD	6
Snatch block, 8,000 lb. safe working load, with shackle	ETSB19SHD	6
5" Wood block, 2 part with shackle, 1,800 lb. safe load	ETWB2	4.8
5" Wood block, 3 part with shackle, 2,400 lb. safe load	ETWB3	6.5



**Chain, Rope and Cable**



Description	Part Number	Weight
Chain, 1/2" with 2 clevis hooks, 10' long	ETCHN1/2	10
Manila rope, 3 strand, lubricated 3/8", tensile strength 1,220 lbs.		
600' coil	ETMR3/8X600	24
1,200' coil	ETMR3/8X1200	48
1/2", tensile strength 2,830 lbs.		
600' coil	ETMRI/2X600	44
1,200' coil	ETMRI/2X1200	88
5/8", tensile strength 3,960 lbs		
600' coil	ETMR5/8X600	79
1,200' coil	ETMR5/8X1200	157
Polypropolene rope 3/8", tensile strength 2,440 lbs.		
600' coil	ETPR3/8X600.	23
1,200' coil	ETPR3/8X1200	46
1/2", tensile strength 3780 lbs.		
600' coil	ETPR1/2X600	42
1,200' coil	ETPR1/2X1200	84
5/8", tensile strength 5,670 lbs.		
600' coil	ETPR5/8X600	50
1,200' coil	ETPR5/8x1200	100
Winch cable		
1/8", 2,000 lb. breaking strength	ETWC18	.06/FF
1/4", 5,880 lb. breaking strength	ETWC14	.12/FF
3/8,13, 120 lb. breaking strength	ETWC38	.25/FF



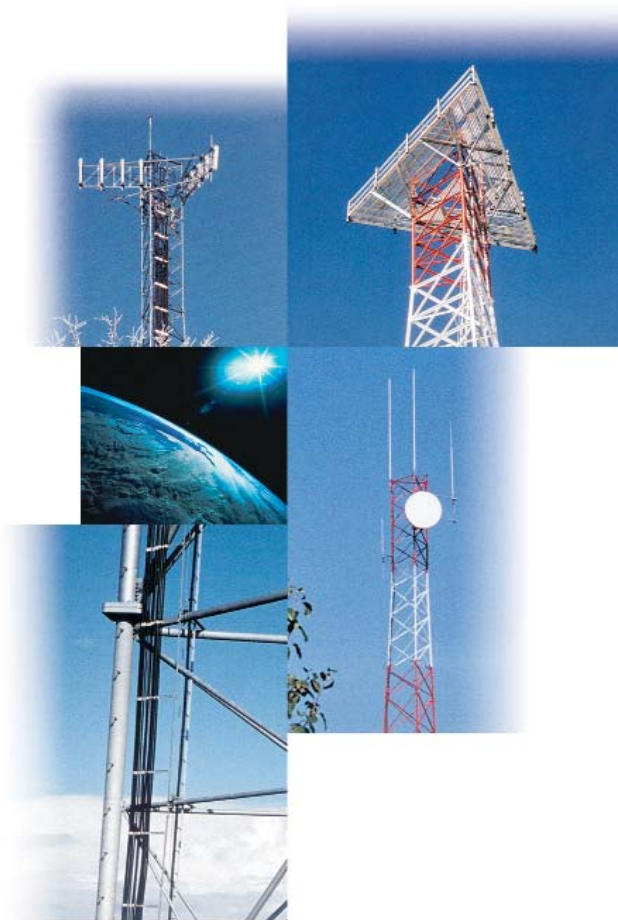
**Erection Fixtures**

Description	Part Number	Weight
12' for towers with 1-1/4" tubular side rails	EF2545	20

**Important:** Erection fixtures should only be used to raise one section, or any part of a section, at one time. They are not intended for the lifting of people.



WAVEGUIDE  
BRIDGES & LADDERS



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

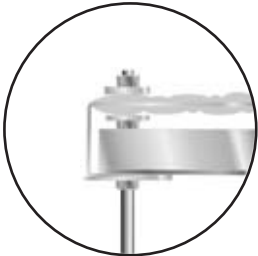
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**HORIZONTAL WAVEGUIDE BRIDGE**

ROHN's Horizontal Waveguide Bridge comes complete in 10 ft. lengths in 24" or 48" widths. This Waveguide Bridge is completely self-supporting and includes 3 levels of 'trapeze'. This allows the transmission line to hang below the grating protection for safety against hazards such as falling ice. All items are hot dip galvanized. The threaded rod for the trapeze hanger angle can also be ordered as stainless steel.

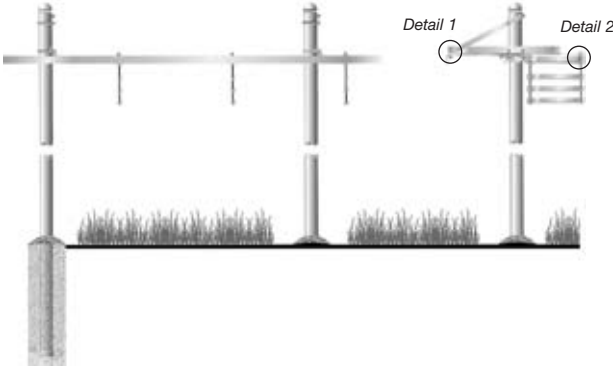


Detail 1

Part Number	Description
WGBS2410	Horizontal Waveguide Bridge, 24 inches wide by 10 feet long
WGBD2410	Horizontal Waveguide Bridge, 48 inches wide by 10 feet long



Detail 2





## **WAVEGUIDE SUPPORT**



### **Waveguide Ladder Assembly**

ROHN Waveguide Ladder assemblies come in 10 ft. or 20 ft. sections with pre-punched rungs in two variations, 8 or 15 holes, with both 7/16" diameter holes to accommodate butterfly hangers and 3/4" diameter holes to accept snap-in hangers. These ladders can be ordered with either 3 ft. or 4 ft. rung spacing. The 8 hole ladder is 19-1/6" wide and the 15 hole ladder is 34-13/16" wide. Mounting clamp assemblies must be ordered separately based upon brace size to which it is to be attached. All items are hot dip galvanized.

### **Special instructions on ordering Waveguide Ladders and Clamps**

Waveguide ladder mounting clamp assemblies are included as part of the Waveguide Ladder but must be specified/ordered separately based upon brace size. See lower table on this page for part numbers and descriptions. Note there are tables for round and angle braces.

<b>Part Number</b>	<b>Description</b>
WL20F154KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 4 foot spacing
WL10F154KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 4 foot spacing
WL20F84KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 4 foot spacing
WL10F84KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 4 foot spacing
WL20F153KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 3 foot spacing
WL10F153KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 3 foot spacing
WL20F83KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 3 foot spacing
WL10F83KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 3 foot spacing

**ROHN**<sup>TM</sup>  
Products



FALL PROTECTION



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY



## FALL PROTECTION

### ROHN - THE ONLY SOURCE YOU'LL NEED

ROHN, in addition to making the highest quality towers, poles, equipment enclosures and mounts, also offers all the hardware and accessories you need to complete the package. From safety harnesses to steel tubing and masts, we've got what you need. All with the same high quality and engineering you'd expect from ROHN.

### ROHN - LOC SAFETY CLIMBING DEVICE

When you install a ROHN -Loc you're protecting your workers as well as yourself. With ROHN -Loc you can overcome one of the biggest obstacles facing workers today, the reluctance to use complicated or bulky safety devices. ROHN -Loc is designed for permanent installation on a ladder or step-bolt equipped structure of any kind. It requires no complex assembly or complicated procedures for ordinary use. The convenience of ROHN -Loc is one of its strongest features, because a safety device does no good if workers won't use it.

The ROHN -Loc system uses top and bottom brackets which secure a  $\frac{3}{8}$ " cable. The ROHN-Loc safety clamp is permanently attached to the harness. The safety clamp locks to the cable allowing the worker to climb the structure with the clamp sliding freely along the cable and automatically past the safety cable restraints.



The cable is kept parallel to the structure along the entire length with cable restraints designed to keep the cable rigid, even in high winds. The ROHN -Loc Safety Harness and Safety Clamp securely lock onto the cable and the worker is secured to the structure.

Because of the unique design of the ROHN -Loc Safety Clamp, it is able to automatically slide past the intermediate cable restraints without any special effort or fumbling with latches or levers, leaving both hands free for safe climbing.

The top safety cable bracket can also serve as a climbing extension with permanently attached hand grips for workers to use in moving onto a platform or away from the ladder itself.

## ADDITIONAL FEATURES OF THE ROHN-LOC SAFETY HARNES AND SAFETY CLAMP

- Made of 1 3/4" (44mm) nylon webbing lined with Ultra-Hyde all wear points for reinforcement and comfort
- Drop-forged tongue buckles with rollers and grommeted holes on waist and leg straps allowing a wide range of adjustments
- Quickly adjustable shoulder straps fasten with single-pass friction buckles
- Features a drop-forged circle D-ring at the back with adjustable nylon lanyard provided as a fall-arrest device
- Has an integral waist belt with D-rings which permits the harness to be used for positioning
- Stainless steel positive gripping clamp with special lock to ensure secure attachment to safety cable
- Unique double lock system allows worker to release unit with one hand at any elevation plus prevents accidental disconnection





**ROHN**

**Safety Cable**

3/8" galvanized steel cable held rigid against ice and wind by cable restraints. Stainless steel cable also available.

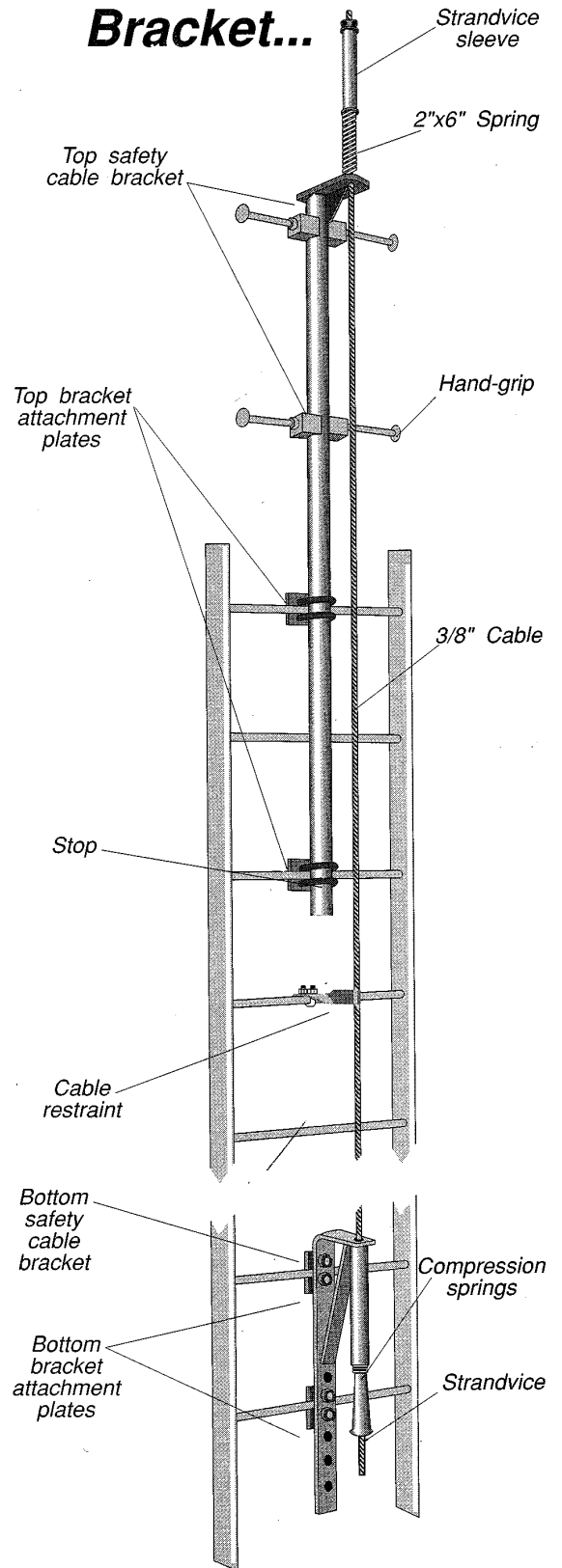
**Optional Top Safety Cable Bracket**

Hot Dip Galvanized steel with step bolts to serve as climbing extension.

**Bottom Safety Cable Bracket**

Hot Dip Galvanized formed steel with multiple bolt holes for adaptable installation.

**Safety Cable  
Bracket...**







## ROHN-LOC SAFETY CLIMBING DEVICES

For Use With Leg or Face Mounted Ladder  
(Refer to Drawing No. C741170 for further details.)

Part Number	Number of Restrainers	Wt.	Part Number	Number of Restrainers	Wt.	Part Number	Number of Restrainers	Wt.
			RL210	10	263	RL410	20	423
RL020	0	106	RL220	10	266	RL420	20	426
RL030	1	119	RL230	11	279	RL430	21	449
RL040	1	122	RL240	11	282	RL440	21	452
RL050	2	135	RL250	12	295	RL450	22	455
RL060	2	138	RL260	12	298	RL460	22	458
RL070	3	151	RL270	13	321	RL470	23	471
RL080	3	154	RL280	13	324	RL480	23	474
RL090	4	170	RL290	14	327	RL490	24	483
RL100	4	173	RL300	14	330	RL500	24	490
RL110	5	183	RL310	15	343	RL510	25	503
RL120	5	186	RL320	15	346	RL520	25	506
RL130	6	199	RL330	16	359	RL530	26	519
RL140	6	202	RL340	16	362	RL540	26	522
RL150	7	215	RL350	17	375	RL550	27	529
RL160	7	218	RL360	17	378	RL560	27	532
RL170	8	231	RL370	18	391	RL570	28	561
RL180	8	234	RL380	18	394	RL580	28	564
RL190	9	247	RL390	19	407	RL590	29	567
RL200	9	250	RL400	19	410	RL600	29	570

Complete kits include one medium harness with safety clamp, necessary restrainers, top and bottom attachments, correct amount of 3/8" EHS cable to reach the top of the ladder, and necessary nuts, bolts, and U-bolts. For ordering the above, add suffix LAD to the appropriate kit part number. Individual part numbers for the top and bottom attachments and restrainers for use with ladder are as follows:

RLTBL ROHN-Loc Top Bracket Assembly (for use with ladder attachment)  
 RLBBL ROHN-Loc Bottom Bracket Assembly (for use with ladder attachment)  
 RLR1 ROHN-Loc Cable Restrainer (for use with ladder attachment)

If a ROHN-Loc Safety Climbing Device is to be used with a ROHN 25, 45, 55, 65, C or J per Drawing No. C741162, add suffix 25, 45, 55, 65, C or J to the appropriate kit part number. Individual part numbers for the top and bottom attachments and restrainers for use with 25, 45, 55, 65, C or J are as follows.

RLTBBB\* ROHN-Loc Top & Bottom Bracket Assembly (for use with 25, 45, 55, 65, C or J tower)  
 RLR2 ROHN-Loc Cable Restrainer (for use with 25, 45, 55, 65, or J tower)  
 RLR3 ROHN-Loc Cable Restrainer (for use with C tower)

If a ROHN-Loc Safety Climbing Device is to be leg mounted on a ROHN self supporting, 80 or 90 tower per Drawing No. C741234 (for top post assembly) or per Drawing No. C741242 (for top bracket assembly), individual items (one harness with safety clamp, necessary restrainers, sufficient amount of cable to reach the top of the tower, top and bottom attachments) must be ordered from the list below:

RLFBBH\*\* Full-Body Harness with ROHN-Loc Safety Clamp  
 RLC (3/8 EHS)▲ ROHN-Loc 3/8" EHS Safety Cable  
 RLCSS▲ ROHN-Loc 3/8" Stainless Steel Safety Cable  
 RLTPA\* ROHN-Loc Top Post Assembly (for use with step bolts)  
 RLTBBA\* ROHN-Loc Top Bracket Assembly (for use with step bolts and through 4" pipe)  
 RLFPFA\* ROHN-Loc Filler Plates (for use with tapered top or top plate)  
 RLCRA1 ROHN-Loc Cable Restrainer (for sections 1W through 5N)  
 RLCRA2 ROHN-Loc Cable Restrainer (for 4-1/2" O.D. or smaller pipe)  
 RLCRA3 ROHN-Loc Cable Restrainer (for 5" to 12" pipe)  
 RLBBA\* ROHN-Loc Bottom Bracket Assembly with Cable Hardware (for use with step bolts and through 10" pipe)

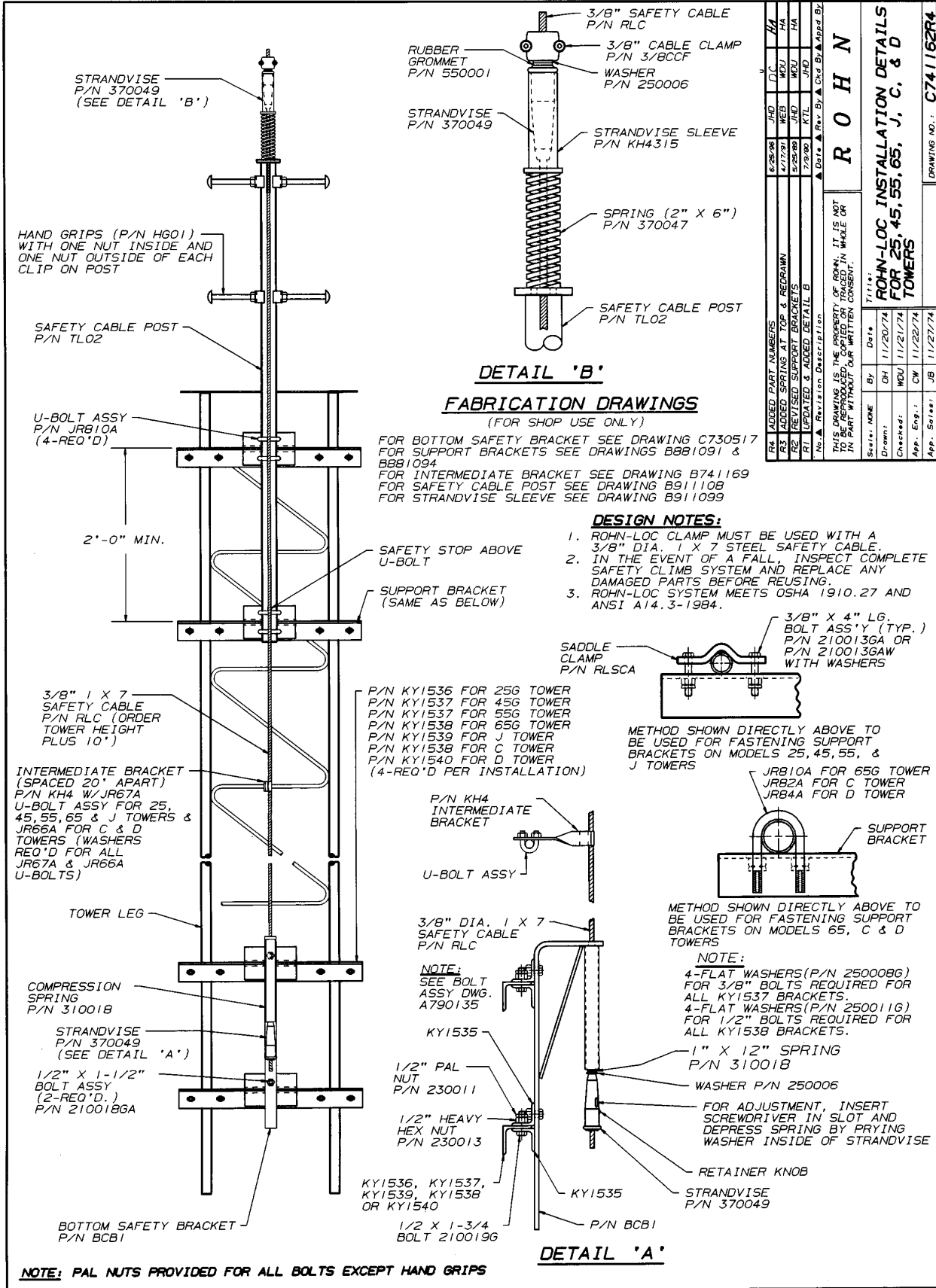
\*Specify tower model no. (25, 45, 55, 65, C, J) or section/pipe size.

\*\*Specify size (waist size) – Small (32/40), Medium (36/44), Large (40/48), Extra Large (44/52)

▲ Specify Tower Height

**Note:** For ROHN solid leg towers or bracketry to attach ROHN-Loc to a 9-1/2" flange plate or larger, contact the factory.

Caution: The ROHN-Loc Safety Clamp must be used only on ROHN-Loc 3/8" Safety Cable. Use on any other cable is dangerous and could result in serious injury or death. ROHN recommends a complete inspection of the safety climb system if exposed to excessive stresses and will inspect it at the ROHN facility free if desired. Specifications subject to change without notice.



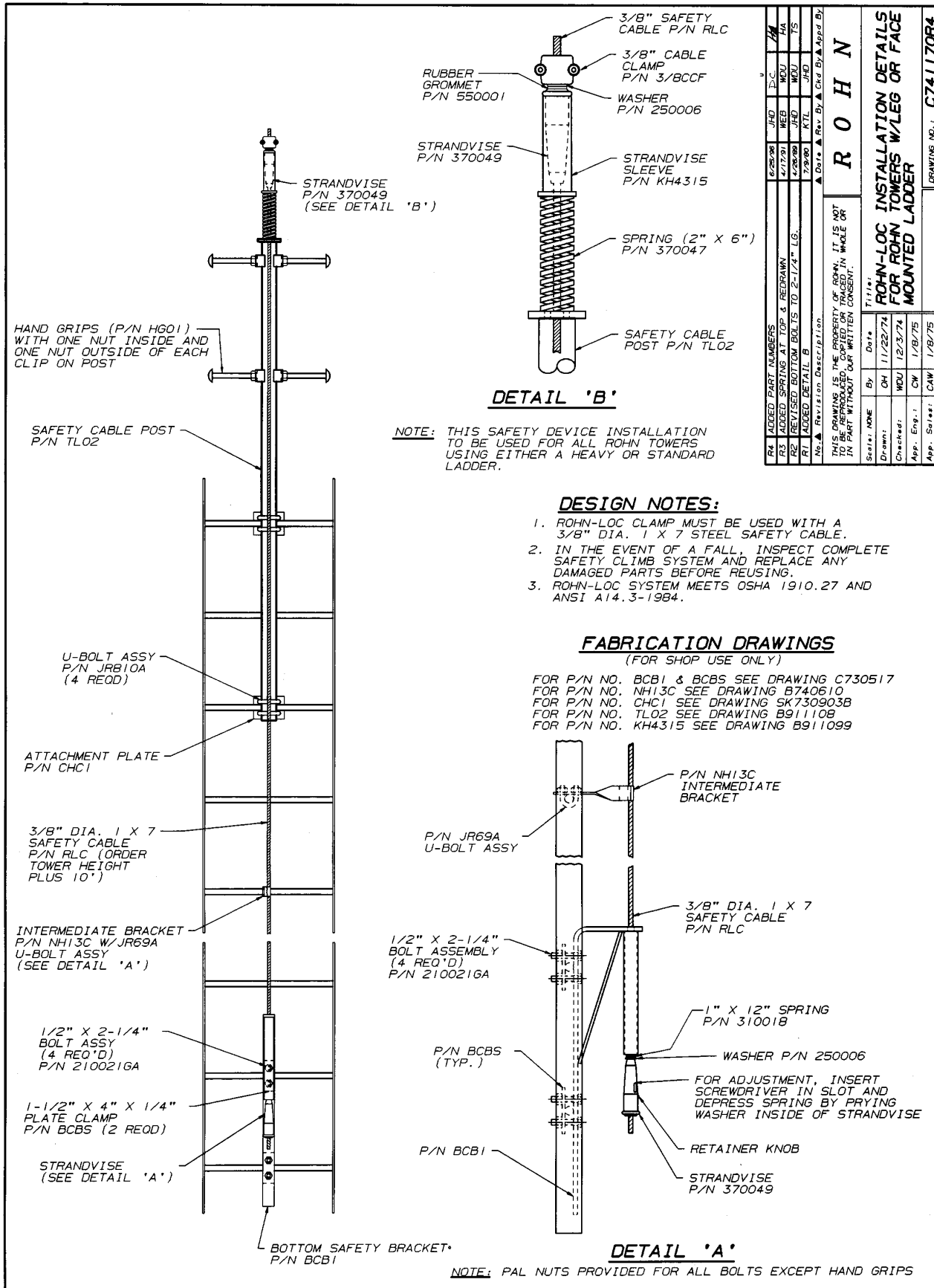
ADDED PART NUMBERS		DATE		BY		APPROVED BY	
RA	ADDED SPRINGS AT TOP & REDRAWN	6/28/98	JHD	11/20/74	DH	11/20/74	71111
R2	REVISED SUPPORT BRACKETS	4/17/91	WBU	11/21/74	WBU	11/21/74	ROHN
R3	REVISED SUPPORT BRACKETS	5/25/89	JHD	11/22/74	WBU	11/22/74	ROHN
RT	UPDATED & ADDED DETAIL B	7/9/90	JHD	11/22/74	WBU	11/22/74	ROHN
No.	Revision Description	Date	Rev. By	Date	App. By	Date	App. By

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**ROHN**

**ROHN-LOC INSTALLATION DETAILS**  
FOR 25, 45, 55, 65, J, C, & D TOWERS

DRAWING NO.: C741162R4





# Hardware/ Fall Protection

3/8" SAFETY CABLE P/N RLC  
RUBBER GROMMET P/N 550001  
STRANDVISE P/N 370049  
STRANDVISE SLEEVE P/N KH4315  
SPRING (2" X 6") P/N 370047

3/8" CABLE CLAMP P/N 3/BCCF  
WASHER P/N 250006

FLANGE BOLTS REQ'D FOR CONNECTION OF TAPERED TOP OR TOP PLATE AND TOP SUPPORT FLANGE (SEE CHART AT FAR RIGHT FOR BOLT SIZES).

TAPERED TOP OR TOP PLATE

TOWER FLANGE (REF.)  
TOP SUPPORT BRACKET

DETAIL ABOVE DEPICTS TOP SUPPORT BRACKET INSTALLATION. BRACKET IS BOLTED TO TOP FLANGE.

RESTRAINER BRACKET SPACING

20' APPROX.

3/8" DIA. 1 X 7 SAFETY CABLE P/N RLC (ORDER TOWER HEIGHT PLUS 10')

FASTENING CLIP PROVIDED ON ALL SSV, SSVSR, MW, 80, 80SR, 90 & 656S

5/8" X 1" BOLT P/N 210074G

NH15 RESTRAINER TO BE USED FOR 4-1/2" O.D. OR SMALLER LEGS  
NH20 RESTRAINER TO BE USED FOR 5-1/2" O.D. THRU 12-3/4" O.D. LEGS ONLY

DETAIL DIRECTLY ABOVE DEPICTS CABLE RESTRAINER INSTALLATION FOR SECTIONS 1W THRU SN

DETAIL DIRECTLY ABOVE DEPICTS CABLE RESTRAINER INSTALLATION FOR ALL SSV, SSVSR, MW, 80, 80SR, 90 & 656S TOWER SECTIONS.

BOTTOM SAFETY BRACKET

STRANDVISE 370049  
WASHER 250006

2-U-BOLTS OR 2-LADDER SADDLE CLAMPS W/4-3/8" X 4" LG. BOLTS REQ'D (SEE BRACKET LISTING AT RIGHT FOR TYPE REQ'D)

1" X 12" COMPRESSION SPRING P/N 310018

P/N KH17 FOR SEC. 2W-JR67A U-BOLTS REQ'D W/BRACKET  
P/N KH18 FOR LEGS 15/16" DIA. THRU 2-1/2" PIPE, 2 SADDLE CLAMPS (P/N KH323) W/4-3/8" X 4" BOLTS REQ'D (P/N 2100136A)  
\* P/N KH19 FOR LEGS 3" THRU 4" PIPE U-BOLTS REQ'D JR8BAW FOR 3" PIPE, JR89AW FOR 3-1/2" PIPE & JR85AW FOR 4" PIPE  
\* P/N KH20 FOR LEGS 5" & 6" PIPE U-BOLTS REQ'D JR86AW FOR 5" PIPE & JR87AW FOR 6" PIPE  
P/N KH21 FOR 8" PIPE LEGS ONLY JR90SA U-BOLTS REQ'D  
P/N KH22 FOR 10" PIPE LEGS ONLY JR110A U-BOLTS REQ'D  
P/N KH2616 FOR 12" PIPE LEGS ONLY JR120A U-BOLTS REQ'D

\*NOTE: 4-FLAT WASHERS (P/N 2500116) FOR REQUIRED FOR SLOTTED HOLES

FOR ADJUSTMENT OF STRANDVISE, INSERT SCREWDRIVER IN SLOT & DEPRESS SPRING BY PRYING WASHER INSIDE OF STRANDVISE

CABLE P/N RLC

TOP BRKT P/N	SECTION DESCRIPTION	FLANGE BOLT ASS'Y
KH4417	1W, 2W, 2WST & 3WN	12-3/8 X 2 2100096A
KH4418	3WNST & 4N	12-1/2 X 2-1/2 2101176A
KH4419	4NST	12-5/8 X 3 2100406A
KH4419	5N, 5NST, 6N & 656S	4-5/8 X 2-1/4 2100326A
KH4363	B3P, 84 & 85 W/6" FL. PL.	4-3/4 X 2-1/2 P/N 2100496A
KH4364	85 SERIES W/7" FL. PL.	4-7/8 X 3 2100626A
KH4360	ALL SSV & MW TOWERS W/ 5 X 5 X 3/4 FLANGES	4-5/8 X 2-1/2 P/N 2100336A
KH4361	ALL SSV, MW & 90 TOWERS W/ 6 X 6 X 3/4 FLANGES	4-3/4 X 2-1/2 P/N 2100496A
KH4362	ALL SSV, MW & 90 TOWERS W/ 7 X 7 X 1 FLANGES	4-7/8 X 3 P/N 2100626A

P/N KH91 SADDLE CLAMP W/ 7/16 DIA. HOLES  
3/8" X 4" LG. BOLT ASS'Y (2 REQ'D PER CLAMP) P/N 2100136A  
SUPPORT BRACKET P/N KH24  
5/8 X 1" BOLT P/N 210074G  
CABLE RESTRAINT BRACKET NH15 OR NH20

5/8" HEAVY HEX NUT P/N 230018

**DESIGN NOTES:**

- ROHN-LOC CLAMP MUST BE USED WITH A 3/8" DIA. 1 X 7 STEEL SAFETY CABLE.
- IN THE EVENT OF A FALL, INSPECT COMPLETE SAFETY CLIMB SYSTEM AND REPLACE ANY DAMAGED PARTS BEFORE REUSING.
- ROHN-LOC SYSTEM MEETS OSHA 1910.27 AND ANSI A14.3-1984.

SECTION	TAPERED TOP OR TOP PLATE	
1W OR 2W	1TTA	VU370
2WST OR 3WN	3TTA	VU371
3WNST OR 4N	4TTNA	VU192
4NST	5TTNA	VU1

**A TAPERED TOP OR TOP PLATE MUST BE USED WITH SAFETY DEVICE**

**FABRICATION DRAWINGS**  
(FOR SHOP USE ONLY)

FOR BOTTOM SAFETY BRACKET SEE DRAWING C741229  
FOR NH20 RESTRAINER BRACKET SEE DRAWING B760216  
FOR NH15 RESTRAINER BRACKET SEE DRAWING B740714  
FOR TOP SUPPORT BRACKET SEE DRAWING C911263  
FOR KH24 RESTRAINER SUPPORT BRACKET SEE DRAWING C741229  
FOR KH91 SADDLE CLAMP SEE DRAWING B770214

RS ADDED PART NUMBERS 6/28/08  
R4 ADDED SPRINGS AT TOP & REDRAWN 4/17/09  
R3 ADDED T.T. & TOP PLATE INFO & REMOVED SWAMP WITH ROHN LOC NOTE 9/19/08  
R2 ADDED REFERENCE TO #85 TOWER 7/28/07  
R1 REVISED RESTRAINER BRACKET (ADDED NH20) 3/29/06

▲ Date ▲ Rev. By ▲ Ckd By ▲ App. By

## ROHN

LEG MTD. SAFETY DEVICE  
INSTALLATION FOR SSV, SSVSR,  
MW, 80, 80SR, 90 & 656S TOWERS

Series: NONE  
Drawn: OH 12/11/74  
Checked: MW 12/26/74  
App. Eng.: CW 12/26/74  
App. Sales: JB 1/6/75

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DRAWING NO.: C741242RS



3/8" SAFETY CABLE P/N RLC  
RUBBER GROMMET P/N 550001  
STRANDVISE P/N 370049  
STRANDVISE SLEEVE P/N KH4315  
SPRING (2" X 6") P/N 370047  
HAND GRIPS (P/N HG01) WITH ONE NUT INSIDE AND ONE NUT OUTSIDE OF EACH CLIP ON POST  
FLANGE BOLTS REQ'D FOR BRACKET TO TOWER FLANGE (SEE LISTING AT RIGHT FOR BOLT SIZES).  
TOP SUPPORT POST

TOP POST P/N	SECTION DESCRIPTION	FLANGE BOLT ASS'Y
KH4317	ALL SSV & MW SECTIONS W/ 5 X 5 X 3/4 FLANGE	4-5/8 X 2-3/4 P/N 210034GA
KH4318	ALL SSV, MW & 90 SECTIONS W/ 6 X 6 X 3/4 FLANGE	4-3/4 X 2-3/4 P/N 210050GA
KH4319	ALL SSV, MW & 90 SECTIONS W/ 7 X 7 X 1 FLANGE	4-7/8 X 3-1/2 P/N 210063GA
KH4325	ALL SSV, MW & 90 SECTIONS W/ 9-1/2 X 9-1/2 X 1-1/4 FLANGE	4-1 X 4-1/4 P/N 210069GA
KH4327	ALL 5N & 5NST SECTIONS	4-5/8 X 2-1/4 P/N 210032GA
KH4321	ALL 6N & 6565 SECTIONS	4-5/8 X 2-1/4 P/N 210032GA
KH4322	ALL 80 W/6" FLANGE PLATES	4-3/4 X 2-3/4 P/N 210050GA
KH4323	ALL 85 W/7" FLANGE PLATES	4-7/8 X 3-1/2 P/N 210063GA
KH4326	SSVSR SECTIONS W/ 6 X 6 X 1 FLANGE (W/ 5" BOLT CIRCLE)	4-3/4 X 3-1/4 P/N 210053GA

NO. 25 WINCH SADDLE CLAMP W/ 7/16 DIA. HOLES P/N KH91  
3/8" X 4" LG. BOLT ASS'Y (2 REQ'D PER CLAMP) P/N 210013GA  
5/8 X 1" BOLT P/N 210074G  
CABLE RESTRAINT BRACKET NH15 OR NH20  
5/8" HEAVY HEX NUT P/N 230018  
SUPPORT BRACKET P/N KH24

FASTENING CLIP PROVIDED ON ALL SSV, SSVSR, MW, 80, BOSR, 90 & 6565  
5/8" X 1" BOLT P/N 210074G  
NH15 RESTRAINER TO BE USED FOR 4-1/2" OR SMALLER LEGS  
NH20 RESTRAINER TO BE USED FOR 5", 6", 8" 10" & 12" LEGS ONLY

2-U-BOLTS OR 2-LADDER SADDLE CLAMPS W/ 4-3/8" X 4" LG. BOLTS REQ'D (SEE BRACKET LISTING AT RIGHT FOR TYPE REQ'D)  
WASHER P/N 250006  
1" X 12" COMPRESSION SPRING P/N 310018  
STRANDVISE P/N 370049  
FOR ADJUSTMENT OF STRANDVISE, INSERT SCREWDRIVER IN SLOT & DEPRESS SPRING BY PRYING WASHER INSIDE OF STRANDVISE  
CABLE P/N RLC

**DESIGN NOTES:**

- ROHN-LOC CLAMP MUST BE USED WITH A 3/8" DIA. 1 X 7 STEEL SAFETY CABLE.
- IN THE EVENT OF A FALL, INSPECT COMPLETE SAFETY CLIMB SYSTEM AND REPLACE ANY DAMAGED PARTS BEFORE REUSING.
- ROHN-LOC SYSTEM MEETS OSHA 1910.27 AND ANSI A14.3-1984.

**BOTTOM SAFETY BRACKET**

P/N KH18 FOR LEGS 1 5/16" DIA. THRU 2-1/2" PIPE, 2 SADDLE CLAMPS (P/N KH323) W/ 4-3/8" X 4" BOLTS REQ'D (P/N 210013GA)
* P/N KH19 FOR LEGS 3" THRU 4" PIPE U-BOLTS REQ'D JR88AW FOR 3" PIPE, JR89AW FOR 3-1/2" PIPE & JR65AW FOR 4" PIPE
* P/N KH20 FOR LEGS 5" & 6" PIPE U-BOLTS REQ'D JR86AW FOR 5" PIPE & JR87AW FOR 6" PIPE
P/N KH21 FOR 8" PIPE LEGS ONLY JR90SA U-BOLTS REQ'D
P/N KH22 FOR 10" PIPE LEGS ONLY JR110A U-BOLTS REQ'D
P/N KH2616 FOR 12" PIPE LEGS ONLY JR120A U-BOLTS REQ'D

\*NOTE: 4-FLAT WASHERS (P/N 2500116) FOR 1/2" U-BOLT REQ'D FOR SLOTTED HOLES

**FABRICATION DRAWINGS**  
(FOR SHOP USE ONLY)

FOR BOTTOM SAFETY BRACKET SEE DRAWING C741229  
FOR NH20 RESTRAINER BRACKET SEE DRAWING B760216  
FOR NH15 RESTRAINER BRACKET SEE DRAWING B740714  
FOR TOP SUPPORT POST SEE DRAWING C911048  
FOR KH24 RESTRAINER SUPPORT BRACKET SEE DRAWING C741229  
FOR TOP SUPPORT POST (5N & 5NST) SEE DRAWING B911120

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
R7	6/29/98	JHD	JHD		ADDED PART NUMBERS
R6	4/22/91	WBU	WBU		ADDED SPRING & SLEEVE AT TOP & REDRAWN
R5	8/12/88	JHD	WBU		DELETED 4" NUT REF. & ADDED KH3691
R4	8/12/87	WV	WV		ADD P/N KH4327 & 12" LEG BOTTOM BRACKET
R3	11/20/85	MMN	JHD		ADD P/N KH2277
R2	9/26/84	JHD	JHD		ADDED REFERENCE TO 6565 STEELBOLT SECTIONS
R1	9/15/78	OH	OH		ADDED BRACKET NO. NH-20

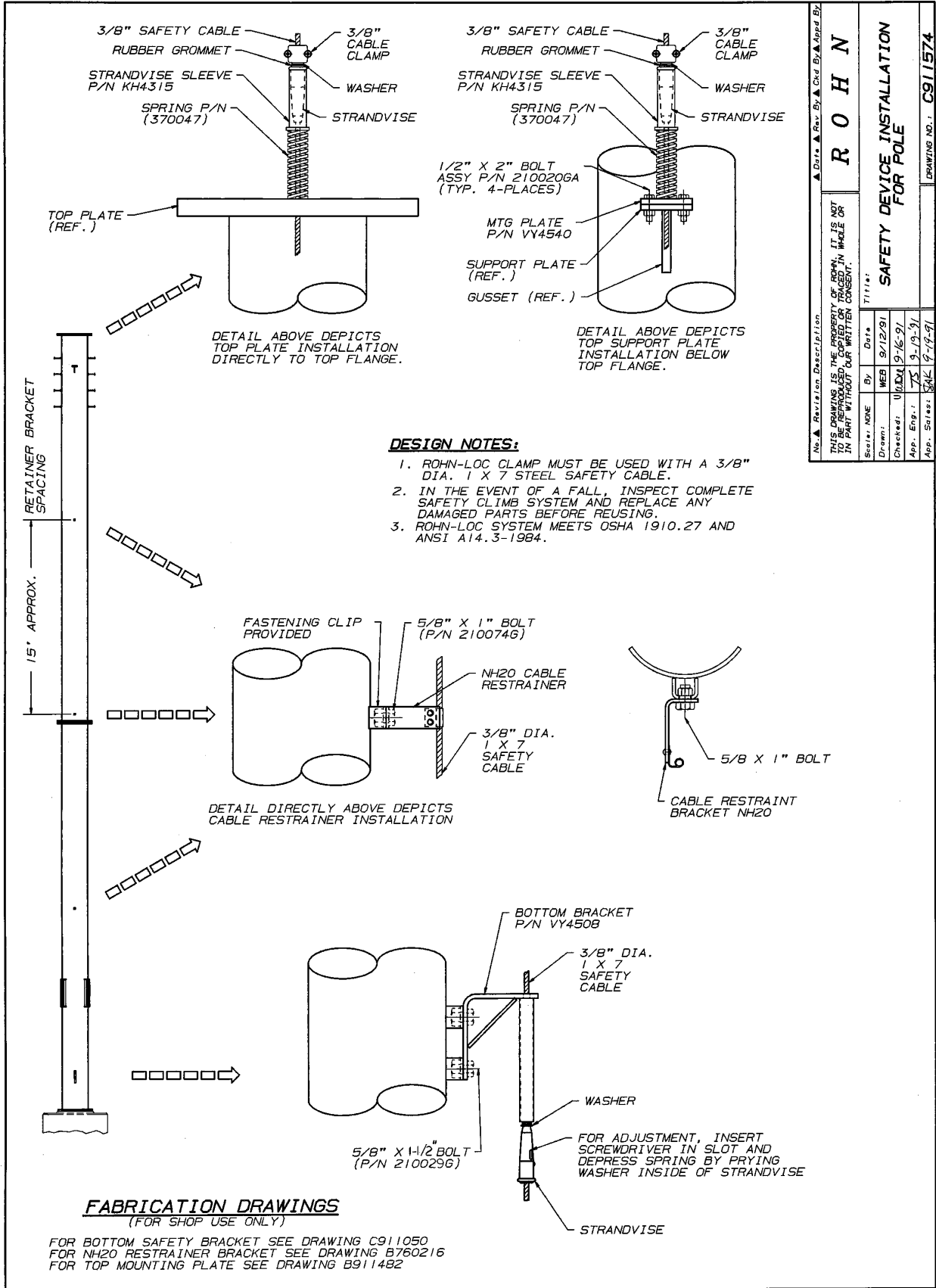
Date: 12/16/74  
Rev. By: C. D. H. App'd By: C. D. H.

ROHN

LEG MTD. SAFETY DEVICE WITH OPTIONAL POST FOR SSV, SSVSR, MW, 80, BOSR, 90 & 6565 TOWERS

DRAWING NO.: C741234R7

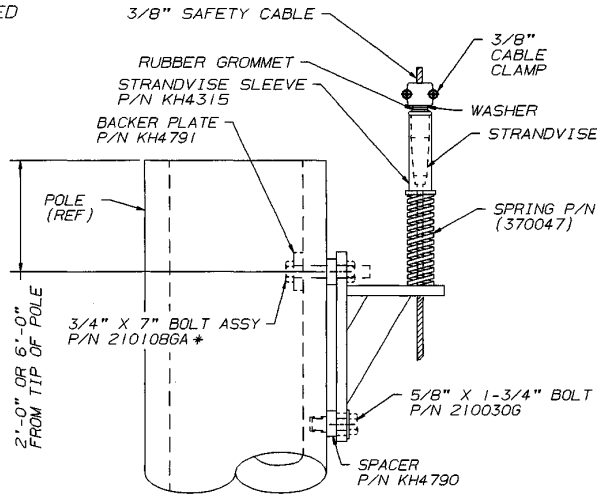








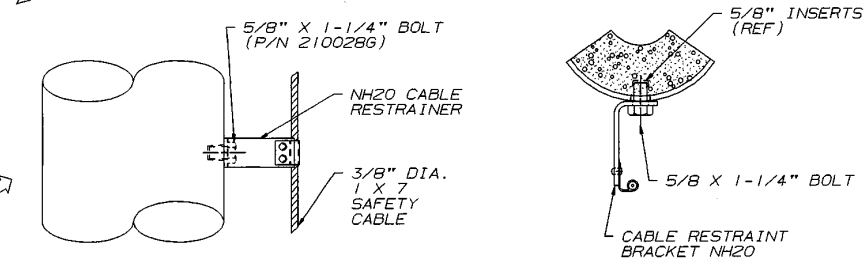
\* BOLT MAY NEED TO BE REVERSED FOR SMALLER TIP DIAMETERS.



DETAIL ABOVE DEPICTS TOP PLATE INSTALLATION DIRECTLY TO FACE OF POLE.

**DESIGN NOTES:**

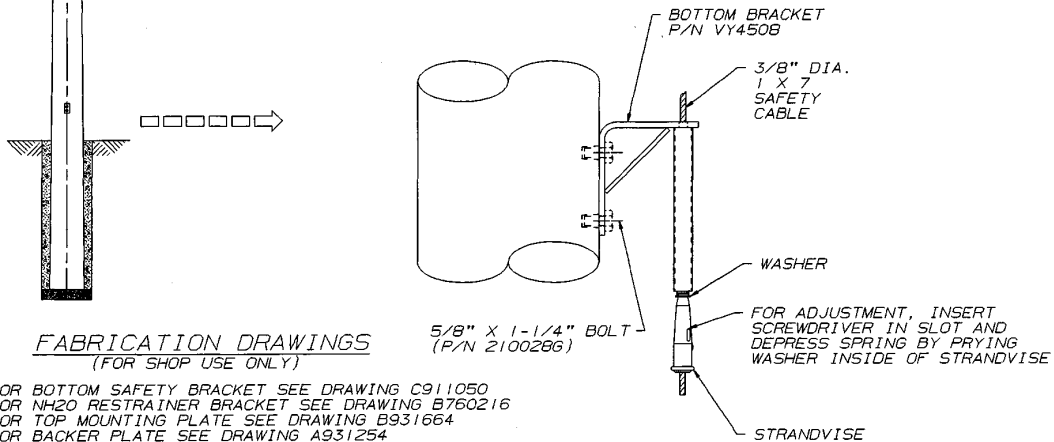
1. ROHN-LOC CLAMP MUST BE USED WITH A 3/8" DIA. 1 X 7 STEEL SAFETY CABLE.
2. IN THE EVENT OF A FALL, INSPECT COMPLETE SAFETY CLIMB SYSTEM AND REPLACE ANY DAMAGED PARTS BEFORE REUSING.
3. ROHN-LOC SYSTEM MEETS OSHA 1910.27 AND ANSI A14.3-1984.



DETAIL DIRECTLY ABOVE DEPICTS CABLE RESTRAINER INSTALLATION

**CABLE RESTRAINT SPACING**

0' - 40'	(0)
40' - 85'	(1)
85' & UP	(2)



**FABRICATION DRAWINGS**  
(FOR SHOP USE ONLY)

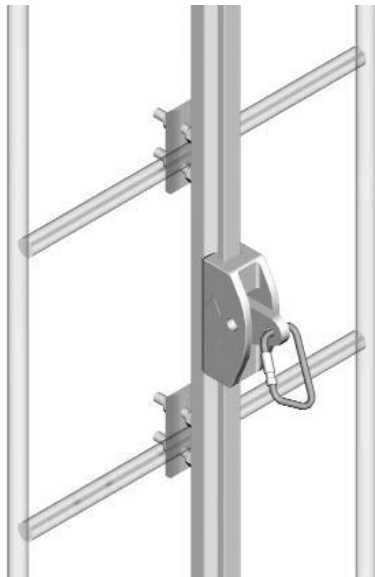
- FOR BOTTOM SAFETY BRACKET SEE DRAWING C911050
- FOR NH20 RESTRAINER BRACKET SEE DRAWING B760216
- FOR TOP MOUNTING PLATE SEE DRAWING B931664
- FOR BACKER PLATE SEE DRAWING A931254
- FOR SPACER DETAIL SEE DRAWING A931245

No. Revision Description		Date	Rev. By	App. By
<b>ROHN</b>				
<b>SAFETY DEVICE INSTALLATION FOR CONCRETE POLES</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.				
Scale:	NONE	Date:	Title:	
Drawn:	JON	Date:	4-27-93	
Checked:	WPK	Date:	4-29-93	
App. Eng.:	TS	Date:	4-30-93	
App. Sales:	JT	Date:	4-28-97	
DRAWING NO.:				C930777



### Saftey Climb System - Rail

Part Number	Description	Quantity	Weight #
<b>Safety RAM Rail</b>			
SCL001-1	20' RAM safety rail c/w hardware	each	18
SCL001-2	10' RAM safety rail c/w hardware	each	9
SCL001-3	20' RAM safety rail c/w hardware top	each	18
SCL001-4	10' RAM safety rail c/w hardware top	each	9
SCL001-5	additional RAM clamp kits	each	2
<b>RAM Trolleys</b>			
160389	RAM spring lever trolley c/w carabiner	each	2
<b>Safety Rail Stand-Off</b>			
SCL002-1	safety rail stand-off	each	14
<b>Safety Rail Stand-Off Pinwheel Boom Location</b>			
SCL002-2	stand-off 2 lev. 2.88" OD (73 mm OD) boom	each	29
SCL002-3	stand-off 3 lev. 2.88" OD (73 mm OD) boom	each	39
SCL002-4	stand-off 2 lev. 4.5" OD (114 mm OD) boom	each	29
SCL002-5	stand-off 3 lev. 4.5" OD (114 mm OD) boom	each	39
SCL002-6	stand-off 2 lev. 3 1/2" to 4" OD (89-102 mm OD) sq. boom	each	43
SCL002-7	stand-off 3 lev. 3 1/2" to 4" OD (89-102 mm OD) sq. boom	each	60

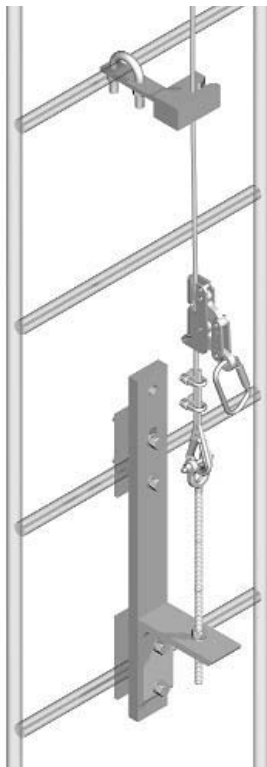


The RAM Safety Climb Rail System is designed to mount directly to fixed ladders to provide fall protection while climbing. The system's unique design allows the trolley to be installed only one way, thus eliminating the possibility of an accident by installing the trolley upside down. The rails clamp to round or square 3/4" (19 mm) diameter ladder rungs. This product meets or exceeds all OSHA requirements for climbing safety. The RAM system is ordered by selecting (1) 10' or 20' Top Rail Kit and then selecting the appropriate number of 10' and 20' Rail Kits to achieve your tower height requirements. Mounting brackets and a rail splice are furnished with each of the 10' and 20' kits. Both the rail and the trolley are manufactured from premium-quality 6061-T6 aluminum. The trolley is ordered separately.



## Safety Climb System - Cable

Part Number	Description	Quantity	Weight #
<b>Safety RAM Cable-Ladder</b>			
SCL010-1	25' RAM safety cable system	kit of 1	48
SCL001-2	50' RAM safety cable system	kit of 1	54
SCL010-3	100' RAM safety cable system	kit of 1	66
SCL010-4	150' RAM safety cable system	kit of 1	78
SCL010-5	200' RAM safety cable system	kit of 1	91
SCL010-6	250' RAM safety cable system	kit of 1	102
SCL010-7	300' RAM safety cable system	kit of 1	113
SCL010-8	350' RAM safety cable system	kit of 1	126
SCL010-9	400' RAM safety cable system	kit of 1	138
SCL010-10	500' RAM safety cable system	kit of 1	162
<b>Note:</b> Each cable system is complete with "L" type cable guides.			
<b>RAM Cable Safety Sleeve (Slider)</b>			
SCL010-S	RAM cable safety sleeve (slider) kit	kit of 1	2
<b>Optional Items:</b>			
160418	straight cable guide	kit of 1	1
160419	"L" type cable guide	kit of 1	1
CL010F	cable guide extension bar	kit of 1	3



The RAM Safety Climb Cable System is designed to provide fall protection while climbing or descending a variety of ladders or vertical structures. The stainless steel slider (fall arrestor) can be attached or removed from the cable at any point. It is secured with a compatible carabiner, supplied with the slider, to the sternal D-ring on any approved climbing harness. The slider is not included in the system and must be ordered separately. The user is free to climb and descend with full use of the hands. In the event of a fall, the slider will automatically arrest the fall. The slider has a builtin mechanism preventing it from operating in the upside-down position. Kits are complete with all mounting hardware, top and bottom mounts, standoff brackets and cable. The RAM slider is designed specifically for use on 7x19 constructed 3/8" galvanized aircraft cable. This system will also support the use of DBI Sala's slider.

Blank



## TOWER LIGHTING



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY







## OBSTRUCTION LIGHTING COMPONENTS

<u>Part Number</u>	<u>Description</u>	<u>Wt.</u>
B1R	300 MM Beacon with Red Glass – No Bulbs	77
OB1	Single Obstruction Light (Red), 3/4" Side Entrance – No Bulbs	3
OB2	Double Obstruction Light (Red), 3/4" Bottom Entrance – No Bulbs	6
RPH1P	Photocontrol Complete w/Socket and Outdoor Housing (120 Volt)	4
RPH2P	Photocontrol Complete w/Socket and Outdoor Housing (230 Volt)	4
FA1SSX1	Non-Alarm Beacon Flasher Only w/Outdoor Housing (For Use with One Beacon at the Top) (120 Volt) (Photocontrol or Time Switch Provided by Others)	17
FA2SSX1	Non-Alarm Beacon Flasher Only w/Outdoor Housing (For Use with Two Beacons, Synchronizing or Alternating Flash, (120 Volt)	18
FA3SSX1	Non-Alarm Beacon Flasher Only in Outdoor Housing (For Use with Three Beacons) (120 Volt)	19
FA1SSX1P	Non-Alarm Lighting Control with Outdoor Housing and Photocontrol, Red Only (For Use with One Red Beacon at the Top, (120 Volt)	18
FA2SSX1P**	Non-Alarm Lighting Control with Outdoor Housing and Photocontrol, Red Only (For Use with Two Beacons, Synchronizing or Alternating Flash) (120 Volt)	19
FA3SSX1P	Non-Alarm Lighting Control with Outdoor Housing and Photocontrol, Red Only (For Use with Three Beacons) (120 Volt)	20
A3LCA*	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with One Red Beacon at the Top – Close on Fail Contacts)	20
A5LCA*	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with Two Red Beacons at the Top – Close on Fail Contacts)	20
ULC350	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with One Red Beacon at the Top – Open or Close on Fail Contacts)	16
ULC700	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with Three Red Beacons and Two Levels of Side Lights – Open or Close on Fail Contacts)	42
LC12HAS*	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with One Red Beacon at the Top and Two Intermediate Red Beacons – Close on Fail Contacts)	29
LC12HAS13*	Alarmed Lighting Control (Same as Above Except Open on Fail Contacts)	29
LC22HAS	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with Two Red Beacons at the Top and Two Intermediate Red Beacons – Close on Fail Contacts)	29
LBRR1200**	Load Balance Resistor, Outdoor/Indoor Housing (1200 Watts)	10
LBRRKIT	Load Balance Resistor (Same as Above) with Wire, Conduit, and Locknuts to Connect Tower Lighting Kit to Radio Equipment Building	19
CB1	Conduit Breather, 3/4" Tap	1/2
JB4C	JB4 Junction Box with Cable Support, 3/4" Tap	3
JB4TC	JB4 Junction Box with 4 Contact Terminal Blocks and Cable Support, 3/4" Tap	3
JB7TC	JB7 Junction Box with 7 Contact Terminal Blocks and Cable Support, 1" Vertical Tap, 3/4" Horizontal Tap	6
B620W	Beacon Bulb (3000 Hour) – 120 Volt (Available in Case of 24 Bulbs)	
OB116W	Obstruction Light Bulb (8000 Hour) – 120 Volt (Available in Case of 120 Bulbs)	
OB100W	Obstruction Light Bulb (2000 Hour) – 230 Volt (Available in Case of 120 Bulbs)	
WR100	Can of 100' x 1/2" Stainless Steel Wraplock with Buckles, Keys, and Ratchet Wrench	3
LRB1	Lightning Rod Assembly, 7/8" x 6' Solid Aluminum, with Base for 300 MM Beacon	6
LR	Lightning Rod Only, 7/8" x 6' Solid Aluminum, with Nut (ROHN Beacon Mounting Plates Drilled to Fit This Rod)	3
LRCL	Lightning Rod Only, 5/8" x 5' Copper Clad, with Nuts (ROHN Beacon Mounting Plates Drilled to Fit This Rod)	6

\*Discontinued. Available on special request. Contact the factory for further details.

\*\*An LBRR1200 is required with FA2SSX1P control where constant line loading is required (on one beacon tower).

**Note:** Variations on above controls and parts for discontinued controls are available upon request.

Alarm controls are available in outdoor housings. Add NEMA4 to part number.

Prices and specifications are subject to change without notice.

F.O.B. Peoria, Illinois



**TOWER OBSTRUCTION LIGHTING KITS**

<b>Tower Height</b>	<b>Standard Kit Part Number</b>	<b>230V, 50/60 Cycle Kit Part Number</b>	<b>*Self-Supporting Conversion Kit Part Number</b>
<b>Exposed Wire</b> to 150'	RA1E	RA1EE	—
<b>Conduit</b> to 150'	RA1C	RA1CE	—
151' to 350'	FA1C	***	**FAKIT (1 req'd)
351' to 500'	A2C1	***	**FAKIT (2 req'd)
501' to 700'	A2C2	***	—
<b>Alarm</b> to 150'	RA1CM	—	—
151' to 350'	FA1CM	—	**FAKIT (1 req'd)
351' to 500'	A2C1A	—	**FAKIT (2 req'd)
501' to 700'	A2C2A	—	—

All kits include photocontrol, necessary wire, fittings, junction boxes, lights, and flasher (where required) in outdoor housing, except alarm kits. Alarm kits include control in indoor housing with remote photocell. See drawings and parts lists for details.

- Notes:**
- 1) Above kits are per FAA Advisory Circular 70/7460-1J.
  - 2) Prices for special lighting kits including medium/high intensity strobes, dual lighting (red and strobes), and towers over 700' are available upon request.
  - 3) Lamp life on 230 volt kits (RA1EE and RA1CE) is very short.

\* In addition to a standard kit, order a conversion kit for each OB light level where tower face width is more than 8'. (A FAKIT8 conversion kit is required on towers with a face width exceeding 41", up to and including 8' face width.) The material in the conversion kit is sufficient to run from inside corner ladder to face. (See \*\* below.)

\*\* Conversion kit part number (FAKIT15, FAKIT25, FAKIT35, FAKIT45) is determined by face width at DB light level. (For example, if tower face width is 13'4" at the OB light level, order part number FAKIT15.)

\*\*\* Order standard kit plus one transformer XFRFA1C (for towers 151' to 350') or XFRFA2C (for towers 351' to 700').

(**Note:** Transformer may not be necessary on AM towers. Consult the factory for additional information.)

Prices and specifications are subject to change without notice.  
F.O.B. Peoria, Illinois



## REPLACEMENT PARTS FOR OBSTRUCTION LIGHTING

### Part Number

#### **OB1 & OB2 Obstruction Lights (Dwg. C620701/C621306)**

530230	OB Red Lens (AP3522R)
OBG1	Gasket
OBR	OB Retainer Ring
OBL	OB Latch
50714	OB Bulb Receptacle

#### **B1 Beacon\* (Dwg. 770040)**

711130	Red Filter Screens (AP3524) (2 Req'd. per Beacon)
BGS	Set of 9 Beacon Gaskets
BGB1	Gasket (4 per Beacon)
BGM1	Gasket (1 per Beacon)
BGT1	Gasket (1 per Beacon)
BGT2	Gasket (3 per Beacon)
WBS	Beacon High Temperature Wiring (Inside) – Complete Set
23X546	Beacon Bulb Receptacle
550020	Clear Glass Silicon Sealant (glue) – 3 Oz. Tube

#### **B1R Beacon (Dwg. D770040)**

AP3557	Upper Beacon Lens, Red
AP3556	Center Beacon Lens, Red
AP3555	Lower Beacon Lens, Red (2 Req'd. per Beacon)
BGSR	Set of 5 Beacon Gaskets
BGB1	Gasket (2 per Beacon)
BGM1	Gasket (1 per Beacon)
BGT1	Gasket (1 per Beacon)
BGT2	Gasket (1 per Beacon)
WBS	Beacon High Temperature Wiring (Inside) – Complete Set
23X546	Beacon Bulb Receptacle
550020	Clear Glass Silicon Sealant (Glue) – 3 Oz. Tube

#### **Miscellaneous**

2237	Water Tight Connector for 2 Conductor (2 #12) UF Cable
2534	Water Tight Connector for 2 #14 SO
2535	Water Tight Connector for 3 Conductor (1 #6/1 #8/1 #12)

**Note:** Replacement Castings for B1 and B1R Beacons Available Upon Request

\*Discontinued. Not available as a complete unit

Prices and specifications are subject to change without notice.

F.O.B. Peoria, Illinois

### Part Number

#### **RPH1\* & RPH2\* Photocontrols (Dwg. D770021)**

KH2250	Printed Circuit Board, Assembled (120 Volt)
KH2251	Printed Circuit Board, Assembled (230 Volt)
K10P11D55	Relay (Solder Type)
NSL446	Photocell Eye Only
R5K10W	Resistor (230 Volt)
TC493B	Capacitor
512	Rectifier

#### **RPH1P & RPH2P Photocontrols (Dwg. C930709)**

RPCP1	Photocontrol (120 Volt)
RPCP2	Photocontrol (230 Volt)
RPCPS	Socket Only for RPCP 1/RPCP2

#### **FA1SSX1P, FA2SSX1P & FA3SSX1P Flashers & PC (Dwg. C931016/C930988/C930987/C940639)**

FA1SSX1	1 Ckt Flasher in Outdoor Housing
FA2SSX1	2 Ckt Flasher in Outdoor Housing
FA3SSX1	3 Ckt Flasher in Outdoor Housing
FA1SSX2	1 Ckt Flasher Panel (120 Volt)
FA2SSX2	2 Ckt Flasher Panel (120 Volt)
FA3SSX2	3 Ckt Flasher Panel (120 Volt)
RPH1P	Photocontrol (120 Volt)
SSBFA120	Flasher Printed Circuit Board, Assembled (120 Volt)
SSBFA230	Flasher Printed Circuit Board, Assembled (230 Volt)
510018	Jumper, Program
510167	Regulator
510168	Timer Oscillator
510170	Diode, Red Light Emitting
510171	Suppressor (27 Volt)
510172	Suppressor, Transient (120 Volt)
510173	Rectifier (50 Volt)
510204	Transformer (120 Volt)
510205	Transformer (230 Volt)
6154H	Relay, Solid State

#### **A3LCA\* & A5LCA\* Flashers & PC with Alarm (Dwg. D930533/C840385L)**

A3PCBA	Printed Circuit Board, Assembled
A5PCBA	Printed Circuit Board, Assembled
LCAPC	Photocell Only
NSL446	Photocell Eye Only
TLC43	Power Transformer
TLC48	Relay, Plug In (12 VDC)
510172	Supressor, Transient (120 Volt)
510194	Current Transformer
6154H	Relay, Solid State
A3LCANEMA4	Complete Control w/Outdoor Housing and Photocell
A5LCANEMA4	Complete Control w/Outdoor Housing and Photocell



## REPLACEMENT PARTS FOR OBSTRUCTION LIGHTING

### Part Number

#### ULC350 & ULC700 Flasher & Photocontrol with Alarm (Dwg. C941430/D950891)

ULC350PNL	Panel Only (for ULC350)
ULC700PNL	Panel Only (for ULC700)
EBPCB	Expansion Board (ULC700)
CSPCB	Current Sensor Printed Circuit Board
MCPCB	Main Control Printed Circuit Board
RDPCB	Relay Driver Printed Circuit Board
RPH1P	Photocontrol (120 Volt)
510124	Relay, 4PDT (120 VAC)
510128	Relay, DPDT (120V/25A)
6154H	Relay, Solid State
ULC350NEMA4	Complete ULC350 Control w/Outdoor Housing
ULC700NEMA4	Complete ULC700 Control w/Outdoor Housing

#### LC12HAS\* & LC22HAS\* Flashers & PC with Alarms (Dwg. C930539/D930540/C921411)

A5PCBA11S	Printed Circuit Board, Assembled
LCAPC	Photocell Only
NSL446	Photocell Eye Only
TLC43	Power Transformer
TLC48	Relay, Plug In (12 VDC)
510041	Module, Lamp Out
510129	Relay, Transfer
510172	Suppressor, Transient (120 Volt)
510194	Current Transformer
510215A	Relay, Dual Solid State
6154H	Relay, Solid State
LC12HASNEMA	Complete Control in Outdoor Housing

#### A3BFA2 Flasher (Dwg. C930988/D930987)

SSBFA120	Printed Circuit Board, Assembled (120 Volt)
SSBFA230	Printed Circuit Board, Assembled (120 Volt)
510018	Jumper, Program
510167	Regulator
510168	Timer Oscillator
510170	Diode, Red Light Emitting
510171	Suppressor (27 Volt)
510172	Suppressor, Transient (12 Volt)
510173	Rectifier (50 Volt)
510204	Transformer (120 Volt)
510205	Transformer (230 Volt)
6154H	Relay, Solid State

### Part Number

#### A3SS1 & A5SS1 Flasher with Photocontrol\* (Dwg. C820880/C820829)

NSL446	Photocell Eye Only
PCBA3/A5SSA	Printed Circuit Board, Assembled
RPC12	Photocell Complete (120 Volt/230 Volt)
510165	Transformer
510172	Suppressor, Transient (120 Volt)
6154H	Relay, Solid State

#### A3SSX1 Flasher Only\* (Dwg. C821240)

PCBA3/A5SSXA	Printed Circuit Board, Assembled
510165	Transformer
510172	Suppressor, Transient (120 Volt)
6154H	Relay, Solid State

#### FA1SS1 & FA2SS1 Flasher with Photocontrol\* (Dwg. C861053/C861054/C861052)

NSL446	Photocell Eye Only
RPC123	Photocell Complete (120 Volt/230 Volt)
SSBFA120	Flasher Printed Circuit Board, Assembled (120 V)
SSBFA230	Flasher Printed Circuit Board, Assembled (120 V)
SSPCA	Photocell Printed Circuit Board, Assembled (120 Volt/230 Volt)
WH1	1 Ckt Flasher Wiring Harness
WH2	2 Ckt Flasher Wiring Harness
510172	Suppressor, Transient (120 Volt)
6154H	Relay, Solid State

#### A3LCA11 & A5LCA11 Flasher PC with Alarm\* (Dwg. C902054/D920606)

A3PCBA11	Printed Circuit Board, Assembled
A5PCBA11	Printed Circuit Board, Assembled
RPC123	Photocell Only
NSL446	Photocell Eye Only
TLC43	Power Transformer
TLC48	Relay, Plug In (12 VDC)
510129	Relay, Transfer
510172	Suppressor, Transient (120 Volt)
6154H	Relay, Solid State

#### RC231PC Flasher & Photocontrol\* (Dwg. B770717)

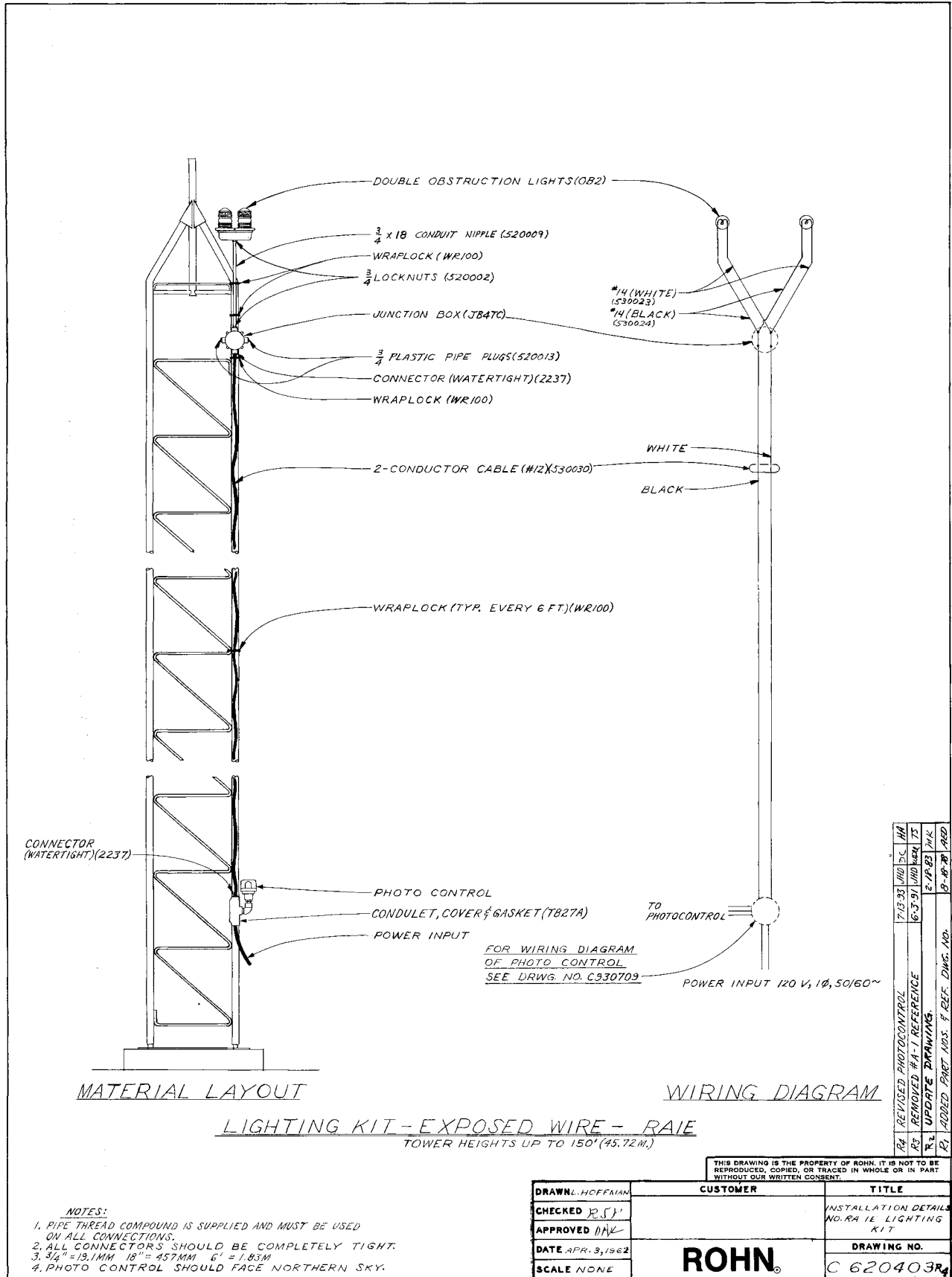
SSM11	Flasher Unit
RC23PCBR1	Printed Circuit Board Assembly
RPC12	Photocell Only

\*Discontinued. Not available as a complete unit.

**Note:** For additional replacement parts not listed, contact the factory.

Prices and specifications are subject to change without notice.

F.O.B. Peoria, Illinois





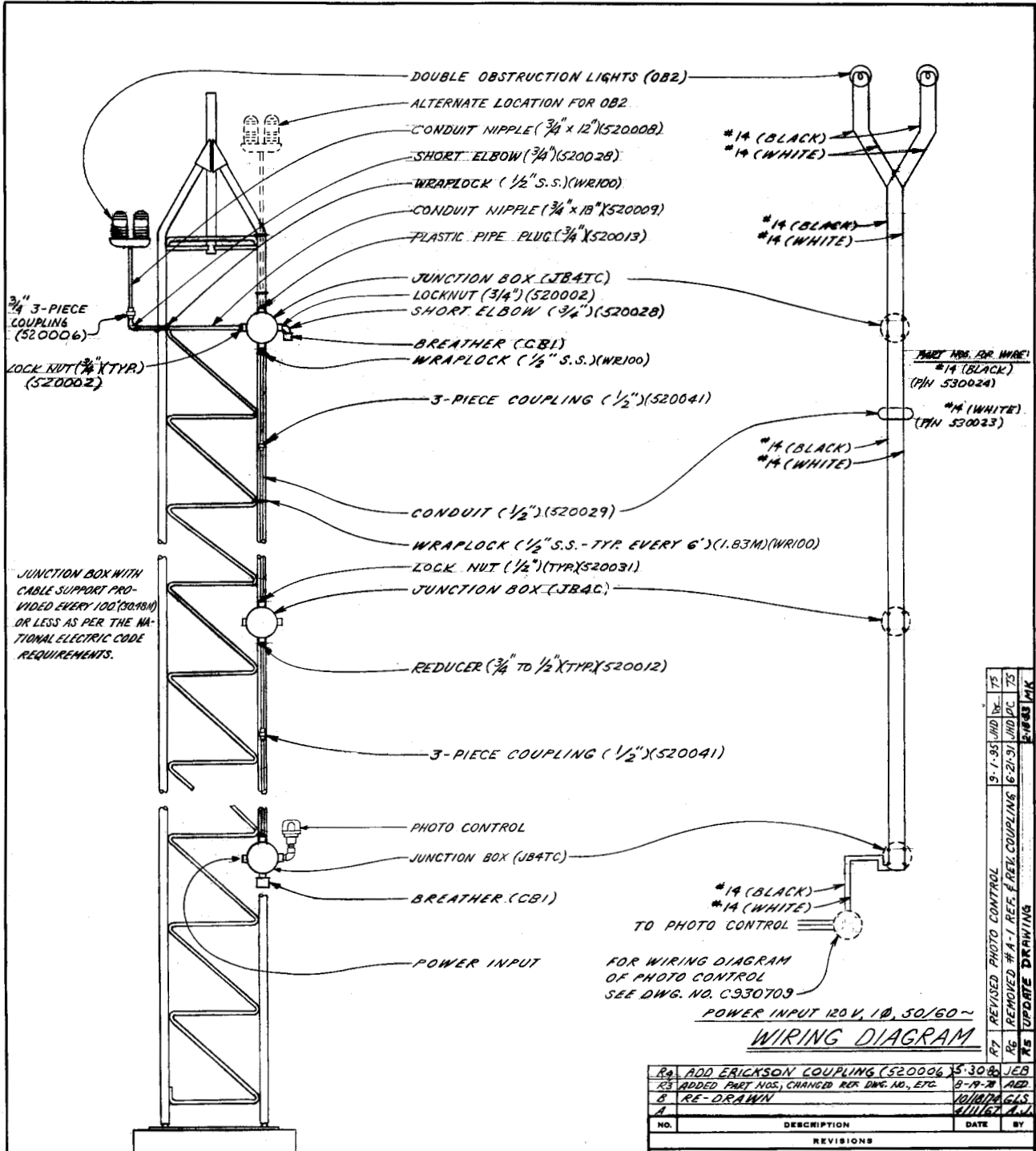
**RATE LIGHTING KIT**  
**To 150' w/Exposed Wire**  
**120 Volt AC**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	OB2	Double Obstruction Light
2	OB116W	Obstruction Light Bulbs (120 Volt)
1	JB4TC	Junction Box
2	2237	Water Tight Connectors
1	520009	Conduit Nipple 3/4" x 18"
2	520013	Plastic Pipe Plugs 3/4"
2	520002	Conduit Lock Nuts 3/4"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
1	RPH1	Photo-Electric Control (120 Volt)
10'	530024	#14 Wire (Black)
10'	530023	#14 Wire (White)
—	530030	2 conductor #12 cable (tower height plus 5')
1	OBLITECAT	Obstruction Lighting Catalog

For Guyed or Self-Supporting Tower.

Prices and specifications are subject to change without notice.  
F.O.B. Peoria, Illinois





JUNCTION BOX WITH CABLE SUPPORT PROVIDED EVERY 100'(30.48M) OR LESS AS PER THE NATIONAL ELECTRIC CODE REQUIREMENTS.

FOR WIRING DIAGRAM OF PHOTO CONTROL SEE DWG. NO. C930709

POWER INPUT 120 V, 1Ø, 50/60~  
**WIRING DIAGRAM**

**MATERIAL LAYOUT**

TOWER HEIGHTS TO 150'  
(45.72M)

**NOTES:**

1. PHOTOCONTROL SHOULD FACE NORTHERN SKY.
2. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT
3. PIPE THREAD COMPOUND IS SUPPLIED AND MUST BE USED ON ALL CONNECTIONS.
4. 1/2" = 12.7MM    3/4" = 19.1MM  
12" = 305MM    18" = 457MM

REVISED PHOTO CONTROL	9-1-95	AND	REV. 15
REMOVED #A-1 REF. E-REL COUPLINGS	6-21-91	AND	REV. 15
UPDATE DRAWING			REV. 15

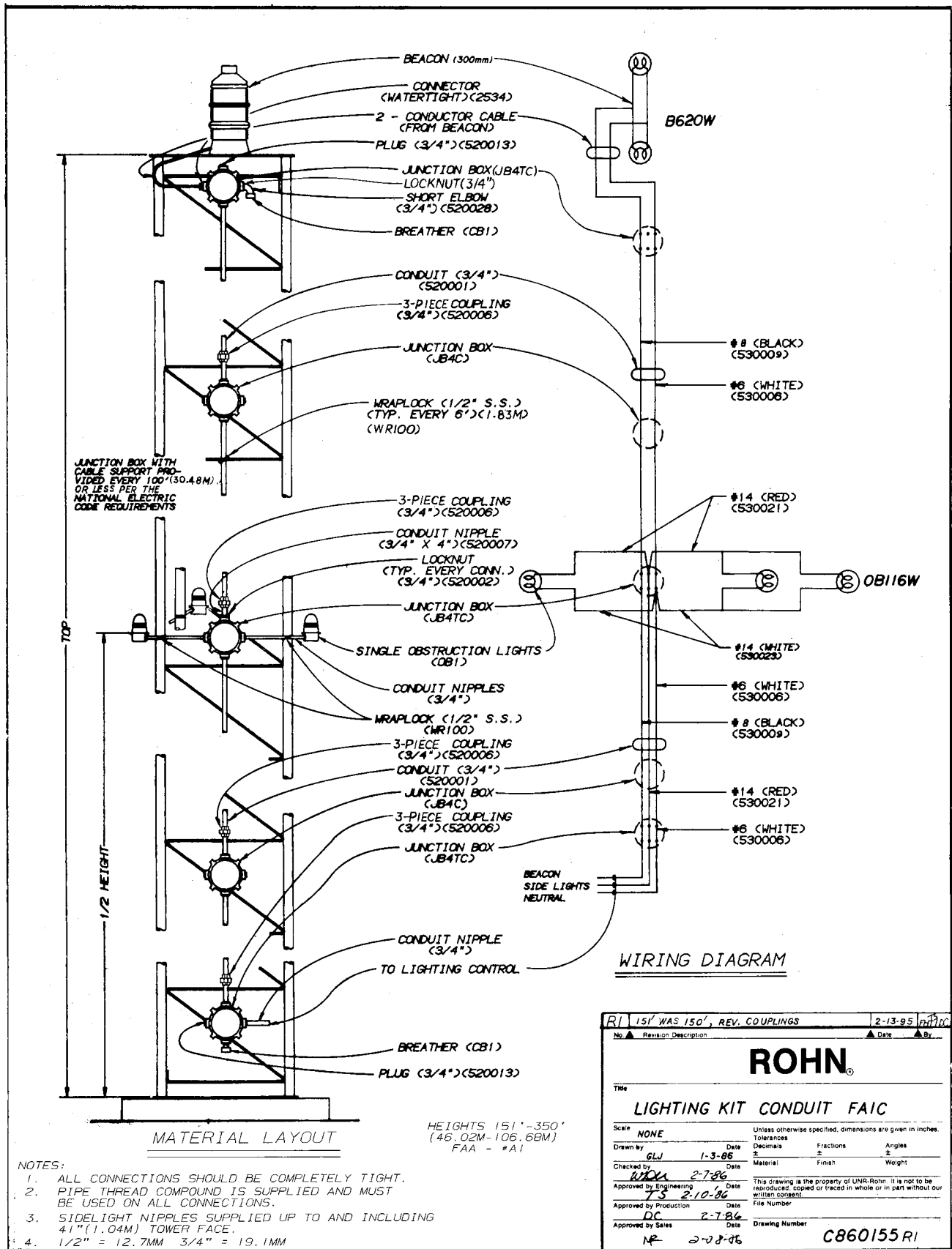
NO.	DESCRIPTION	DATE	BY
R4	ADD ERICACON COUPLING (520006)	5-30-88	JER
R3	ADDED PART NOS, CHANGED REF DWG NO., ETC.	5-19-78	AED
B	RE-DRAWN	10/18/74	GLS
A		11/16/74	AND
REVISIONS			
<b>ROHN</b>			
TITLE <b>LIGHTING KIT-CONDUIT-RAIC</b>			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			FILE NO.
DRAWN BY <b>GLS</b>		DATE <b>10/18/74</b>	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.
CHECKED BY <b>GLS</b>		DATE <b>11/18/74</b>	TOLERANCES
APPROVED BY <b>GLS</b>		DATE <b>11/18/74</b>	DEC. FRACTION ANGLES
APPROVED BY		DATE	DWG. NO. <b>C 620506 R7</b>



**RAIC LIGHTING KIT**  
**To 150' w/Conduit**  
**120 Volt AC**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	OB2	Double Obstruction Light
2	OB116W	Obstruction Light Bulbs (120 Volt)
2	JB4TC	Junction Boxes
1	JB4C	Junction Box
2	520028	Short Elbows 3/4"
2	CB1	Conduit Breathers
1	520006	3 Piece Coupling 3/4"
2	520041	3 Piece Coupling 1/2"
3	520013	Plastic Pipe Plugs 3/4"
8	520002	Conduit Lock Nuts 3/4"
4	520031	Conduit Lock Nuts 1/2"
4	520012	Reducers 3/4" to 1/2"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
1	RPH1P	Photo-Electric Control (120 Volt)
1	520007	Conduit Nipple 3/4" x 4"
1	520008	Conduit Nipple 3/4" x 12"
1	520009	Conduit Nipple 3/4" x 18"
—	530024	#14 Wire (Black) (Tower Height Plus 15')
—	530023	#14 Wire (White) (Tower Height Plus 15')
—	520029	Rigid Galvanized Conduit 1/2" (Tower Height)
1	OBLITECAT	Obstruction Lighting Catalog

For Guyed or Self-Supporting Tower.



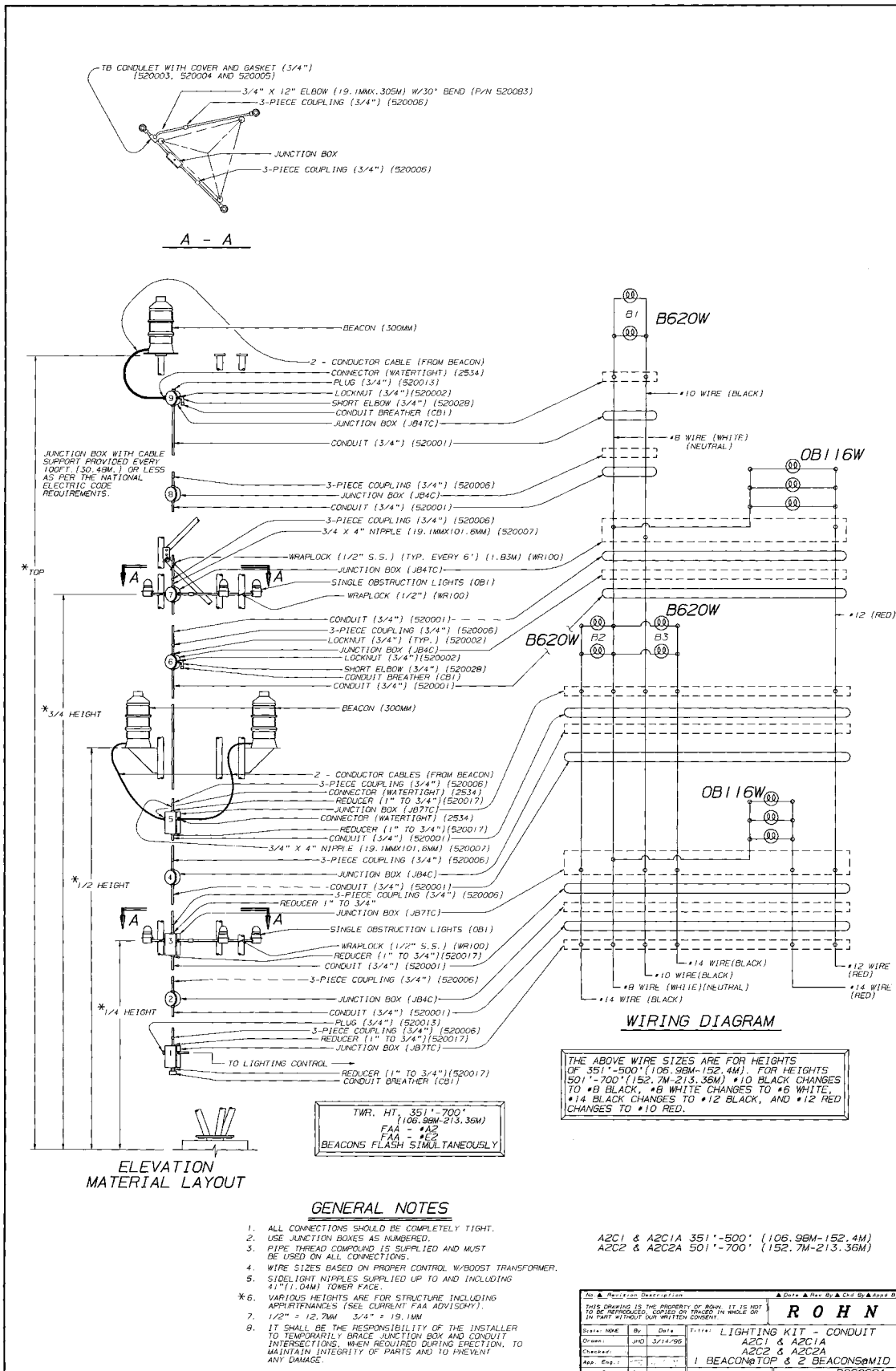


**FAIC LIGHTING KIT**  
**151' to 350' w/Conduit**  
**120 Volt AC**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
3	OB1	Single Obstruction Lights
3	JB4TC	Junction Boxes
2	JB4C	Junction Boxes
1	2534	Water Tight Connector
1	520028	Short Elbow 3/4"
2	CB1	Conduit Breathers
6	520006	3 Piece Couplings 3/4"
2	520062	Pipe Couplings 3/4"
2	520013	Plastic Pipe Plugs 3/4"
1	TB27A	TB Condulet, Gasket, and Cover 3/4"
17	520002	Conduit Lock Nuts 3/4"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
25'	530021	#14 Wire (Red)
25'	530023	#14 Wire (White)
3	520007	Conduit Nipple 3/4" x 4"
—	530021	#14 Wire (Red) (1/2 Tower Height plus 15')
3	520009	Conduit Nipples 3/4" x 18"
1	520083	Elbows 3/4" x 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	FA1SSX1P	Outdoor Flasher Box w/Flasher, Remote Photocell, and Hardware
3	520008	Conduit Nipples 3/4" x 12"
1	B1R	Beacon with Red Glass
2	B620W	Beacon Bulbs (120 Volt)
3	OB116W	Obstruction Light Bulbs (120 Volt)
—	530006	#6 Wire (White) (Tower Height Plus 15')
—	530009	#8 Wire (Black) (Tower Height Plus 15')
—	520001	Rigid Galvanized Conduit 3/4" (Tower Height)

Conversion kit is required on towers over 41" face width. Conversion kit consists of required material for installing side lights on wider face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

See Drawing No. C860155R1 For Details



ELEVATION MATERIAL LAYOUT

GENERAL NOTES

1. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.
2. USE JUNCTION BOXES AS NUMBERED.
3. PIPE THREAD COMPOUND IS SUPPLIED AND MUST BE USED ON ALL CONNECTIONS.
4. WIRE SIZES BASED ON PROPER CONTROL W/BOOST TRANSFORMER.
5. SIDELIGHT NIPPLES SUPPLIED UP TO AND INCLUDING 41"(1.04M) TOWER FACE.
- \*6. VARIOUS HEIGHTS ARE FOR STRUCTURE INCLUDING APPURTENANCES (SEE CURRENT FAA ADVISORY).
7. 1/2" = 12.7MM 3/4" = 19.1MM
8. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO TEMPORARILY BRACE JUNCTION BOX AND CONDUIT INTERSECTIONS, WHEN REQUIRED DURING ERECTION, TO MAINTAIN INTEGRITY OF PARTS AND TO PREVENT ANY DAMAGE.

AZC1 & AZC1A 351'-500' (106.98M-152.4M)  
 AZC2 & AZC2A 501'-700' (152.7M-213.36M)

THE ABOVE WIRE SIZES ARE FOR HEIGHTS OF 351'-500' (106.98M-152.4M). FOR HEIGHTS 501'-700' (152.7M-213.36M) #10 BLACK CHANGES TO #8 BLACK, #8 WHITE CHANGES TO #6 WHITE, #14 BLACK CHANGES TO #12 BLACK, AND #12 RED CHANGES TO #10 RED.

No.	Revised Description	By	Date	Drawn By	Checked By
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**A2C1 & A2C2 LIGHTING KIT**  
**(Non-Alarm Unit)**  
**351' to 700' w/Conduit**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
6	OB1	Single Obstruction Lights
4	JB4C	Junction Boxes
2	JB4TC	Junction Boxes
3	JB7TC	Junction Boxes
3	2534	Water Tight Connectors
6	520017	Reducers 1" to 3/4"
2	520028	Short Elbows 3/4"
3	CB1	Conduit Breathers
12	520006	Erickson Couplings 3/4"
3	520013	Plastic Pipe Plugs 3/4"
2	TB27A	TB Condulets, Gaskets, and Covers 3/4"
40	520002	Conduit Lock Nuts 3/4"
2	WR100	Cans Stainless Steel Wraplock (1/2" x 100')
2	520023	Cans Joint Compound
50'	530021	#14 Wire (Red)
50'	530023	#14 Wire (White)
5	520007	Conduit Nipples 3/4" x 4"
6	520008	Conduit Nipples 3/4" x 12"
6	520009	Conduit Nipples 3/4" x 18"
4	520062	Pipe Couplers 3/4"
2	520083	Elbows 3/4" x 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	FA3SSX1PXF	Outdoor Flasher Box with Flasher, Remote Photocell, Hardware, and Boost Transformers
3	B1R	Beacons w/Red Glass
6	B620W	Beacon Bulbs (120 volt)
6	OB116W	Obstruction Light Bulbs (120 volt)
-	530012	#8 Wire (white) (Tower Height Plus 40')
-	530016	#10 Wire (black) (Tower Height Plus 40')
-	530017	#12 Wire (red) (3/4 Tower Height Plus 30')
-	530021	#14 Wire (red) (1/4 Tower Height Plus 20')
-	530024	2 - #14 Wire (black) (1/2 Tower Height Plus 20')
-	520001	Rigid Galvanized Conduit 3/4" (Tower Height)

The above wire sizes are for tower heights of 351' to 500'. For heights 501' to 700', #8 white (530012) changes to #6 white (530006); #10 black (530016) changes to #8 black (530009); and #12 red (530017) changes to #10 red (530014), and #14 black (530024) changes to #12 black (530018).

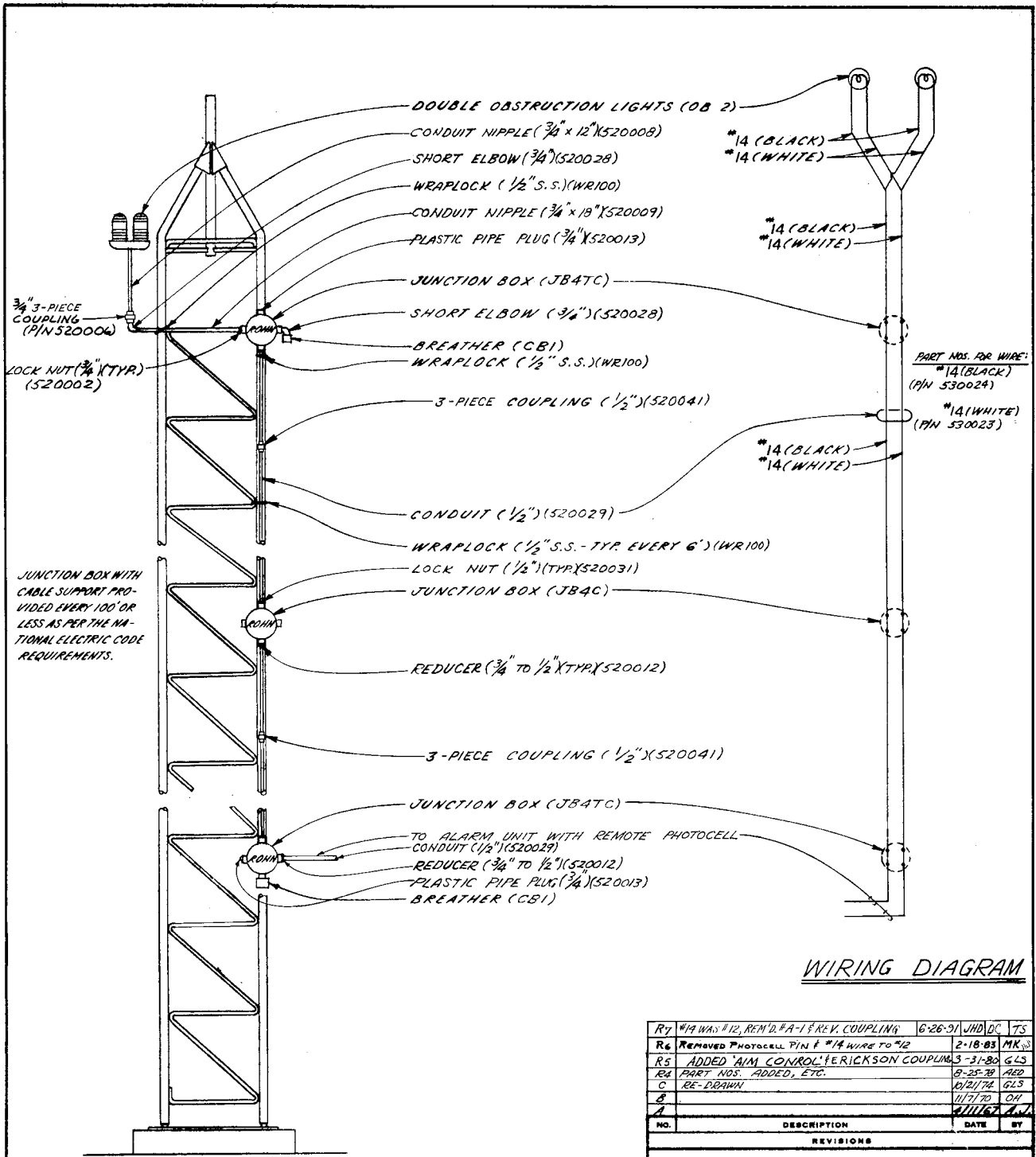
Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

**Note:** Wire lengths may vary due to structure height including appurtenances.

Prices and specifications are subject to change without notice.

F.O.B. Peoria, Illinois





MATERIAL LAYOUT

TOWER HEIGHTS TO 150'

WIRING DIAGRAM

R7	*14 WAS #12, REM'D. FA-1 & REK. COUPLING	6-26-91	JHD/DC	TS
R6	REMOVED PHOTOCELL PIN & *14 WIRE TO #12	2-18-83	MK/S	
R5	ADDED 'AIM CONTROL' ERICKSON COUPLING	3-31-80	GLS	
RE	PART NOS. ADDED, ETC.	8-25-78	AGD	
C	RE-DRAWN	10/21/74	GLS	
B		11/17/70	OH	
A			WILLIAMS	
NO.	DESCRIPTION	DATE	BY	
REVISIONS				
<b>ROHN.</b>				
TITLE				
<b>LIGHTING KIT-CONDUIT-RA 1CM</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.
APPROVED	DATE	BY	NO.	
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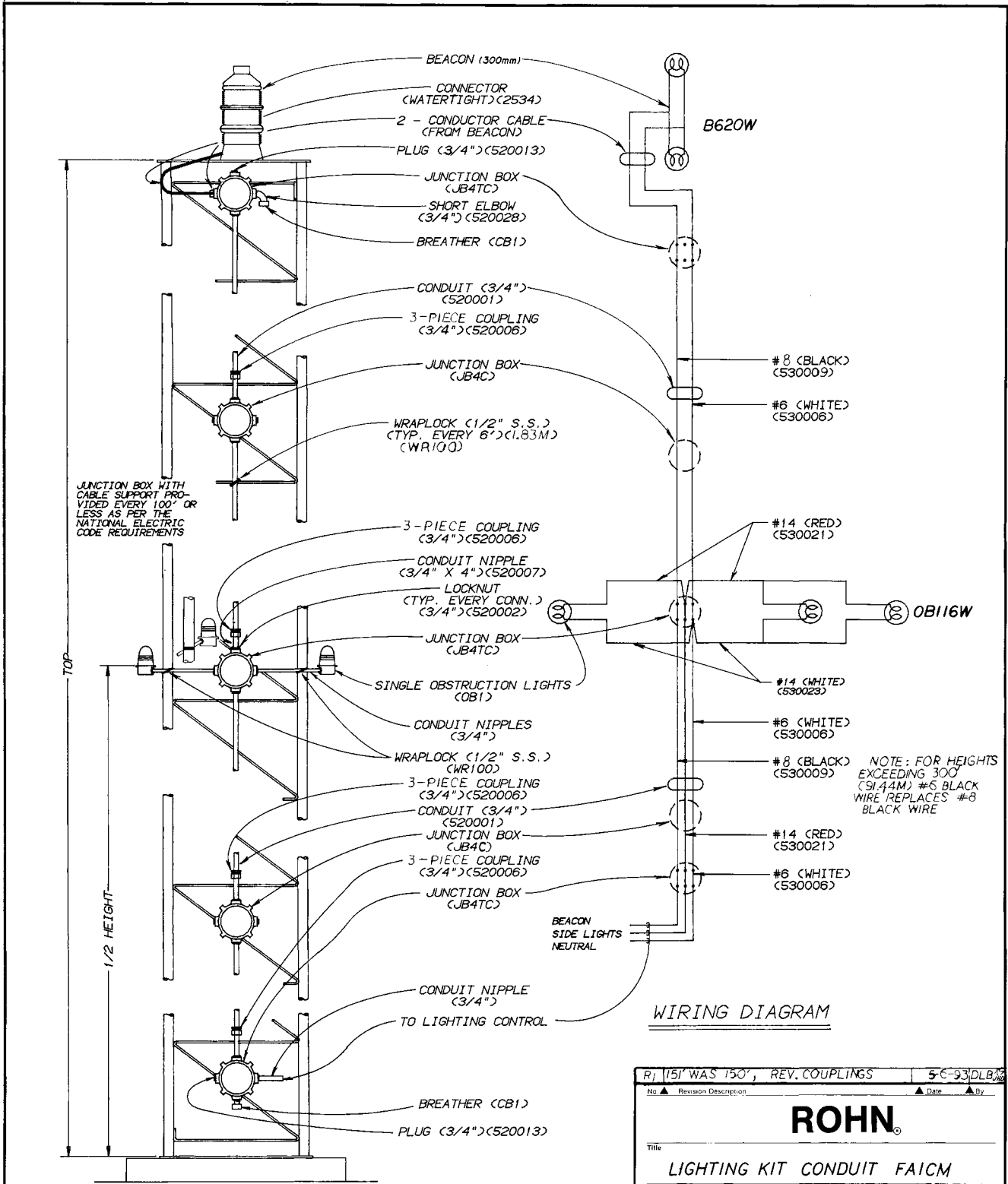
**NOTES:** 2. PHOTO CONTROL SHOULD FACE NORTHERN SKY.  
1. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.



**RA1CM LIGHTING KIT**  
**To 150' w/Conduit**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	OB2	Double ObstructionLight
2	OB116W	Obstruction Light Bulbs (120 volt)
2	JB4TC	Junction Boxes
1	JB4C	Junction Box
2	520028	Short Elbows 3/4"
2	CB1	Conduit Breathers 3/4"
1	520006	3 Piece Coupling 3/4"
2	520041	3 Piece Coupling 1/2"
2	520013	Plastic Pipe Plugs 3/4"
8	520002	Conduit Lock Nuts 3/4"
6	520031	Conduit Lock Nuts 1/2"
5	520012	Reducers 3/4" to 1/2"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
1	520008	Conduit Nipple 3/4" x 12"
1	520009	Conduit Nipple 3/4" x 18"
-	530024	#14 Wire (black) (Tower Height Plus 30')
-	530023	#14 Wire (white) (Tower Height Plus 30')
-	520029	Rigid Galvanized Conduit 1/2" (Tower Height Plus 20')
1	A3LCA11	Indoor Alarm Control w/Remote Photocell
1	OBLITECAT	Obstruction Lighting Catalog

For guyed or self-supporting tower.



JUNCTION BOX WITH CABLE SUPPORT PROVIDED EVERY 100' OR LESS AS PER THE NATIONAL ELECTRIC CODE REQUIREMENTS

TOP  
1/2 HEIGHT

MATERIAL LAYOUT

- NOTES:
1. ALL CONNECTIONS SHOULD BE COMPLETELY TIGHT.
  2. PIPE THREAD COMPOUND IS SUPPLIED AND MUST BE USED ON ALL CONNECTIONS.
  3. SIDELIGHT NIPPLES SUPPLIED UP TO AND INCLUDING 7.5' (2.29M) TOWER FACE.
  4. 1/2" = 12.7MM 3/4" = 19.1MM

HEIGHTS 151' - 350'  
(46.02M - 106.68M)  
FAA - #A1

WIRING DIAGRAM

R/ 151' WAS 150', REV. COUPLINGS		5-C-93DLB.2
No.	Revision Description	Date
<b>ROHN</b>		
<b>LIGHTING KIT CONDUIT FAIM</b>		
Scale: NONE Unless otherwise specified, dimensions are given in inches.		
Drawn by: GLJ	Date: 1-3-86	Tolerances: Decimals Fractions Angles
Checked by: WJK	Date: 2-7-86	Material: Finish Weight
Approved by Engineering: TS	Date: 2-10-86	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: DC	Date: 2-7-86	
Approved by Sales: N	Date: 2-23-86	
Drawing Number: C860486 R1		



**FA1CM LIGHTING KIT**  
**151' to 350' w/Conduit**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
3	OB1	Single Obstruction Light
3	JB4TC	Junction Boxes
2	JB4C	Junction Boxes
1	2534	Water Tight Connector
1	520028	Short Elbow 3/4"
2	CB1	Conduit Breathers
6	520006	Erickson Couplings 3/4"
2	520062	Pipe Couplings 3/4"
2	520013	Plastic Pipe Plugs 3/4"
1	TB27A	TB Condulet, Gasket, and Cover 3/4"
3	520031	Conduit Lock Nuts 1/2"
19	520002	Conduit Lock Nuts 3/4"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
25'	530021	#14 Wire (Red)
25'	530023	#14 Wire (White)
2	520007	Conduit Nipple 3/4" x 4"
-	530021	#14 Wire (Red) (1/2 Tower Height Plus 30')
3	520009	Conduit Nipples 3/4" x 18"
1	520083	Elbows 3/4" to 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	ULC350	Indoor Alarm Control with Remote Photocell
3	520008	Conduit Nipples 3/4" x 12"
1	B1R	Beacon w/Red Glass
2	B620W	Beacon Blubs (120 volt)
3	OB116W	Obstruction Light Bulbs (120 volt)
-	530006	#6 Wire (White) (Tower Height Plus 30')
-	530009	#8 Wire (Black) (Tower Height Plus 30')
-	520001	Rigid Galvanized Conduit 3/4" (Tower Height Plus 10')
10'	520029	Rigid Galvanized Conduit 1/2" (For Remote Photocell)

Conversion kit is required on towers over 41" face width. Conversion kit consists of required material for installing side lights on wider face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

**Note:** #6 black wire (530005) replaces #8 black wire (530009) if tower height exceeds 300'.





**A2C1A & A2C2A LIGHTING KIT**  
**(with Alarm Unit)**  
**351' to 700' w/Conduit**

<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
6	OB1	Single Obstruction Lights
4	JB4C	Junction Boxes
2	JB4TC	Junction Boxes
3	JB7TC	Junction Boxes
3	2534	Water Tight Connectors
6	520017	Reducers 1" to 3/4"
2	520028	Short Elbows 3/4"
3	CB1	Conduit Breathers
12	520006	Erickson Couplings 3/4"
3	520013	Plastic Pipe Plugs 3/4"
2	TB27A	TB Condulets, Gaskets, and Covers 3/4"
3	520031	Conduit Lock Nuts 1/2"
40	520002	Conduit Lock Nuts 3/4"
2	WR100	Cans Stainless Steel Wraplock (1/2" x 100')
2	520023	Cans Joint Compound
50'	530021	#14 Wire (Red)
50'	530023	#14 Wire (White)
5	520007	Conduit Nipples 3/4" x 4"
6	520008	Conduit Nipples 3/4" x 12"
6	520009	Conduit Nipples 3/4" x 18"
4	520062	Pipe Couplers 3/4"
2	520083	Elbows 3/4" x 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	ULC700	Indoor Alarm Control with Remote Photocell
3	B1R	Beacons w/Red Glass
6	B620W	Beacon Bulbs (120 Volt)
6	OB116W	Obstruction Light Bulbs (120 Volt)
-	530012	#8 Wire (White) (Tower Height Plus 60')
-	530016	#10 Wire (Black) (Tower Height Plus 60')
-	530017	#12 Wire (Red) (3/4 Tower Height Plus 50')
-	530021	#14 Wire (Red) (1/4 Tower Height Plus 40')
-	530024	2 - #14 Wire (Black) (1/2 Tower Height Plus 40')
-	520001	Rigid Galvanized Conduit 3/4" (Tower Height Plus 10')
10'	520029	Rigid Galvanized Conduit 1/2" (for remote photocell)

The above wire sizes are for tower heights of 351' to 500'. For heights 501' to 700', #8 white (530012) changes to #6 white (530006); #10 black (530016) changes to #8 black (530009); and #12 red (530017) changes to #10 red (530014), and #14 black (530024) changes to #12 black (530018).

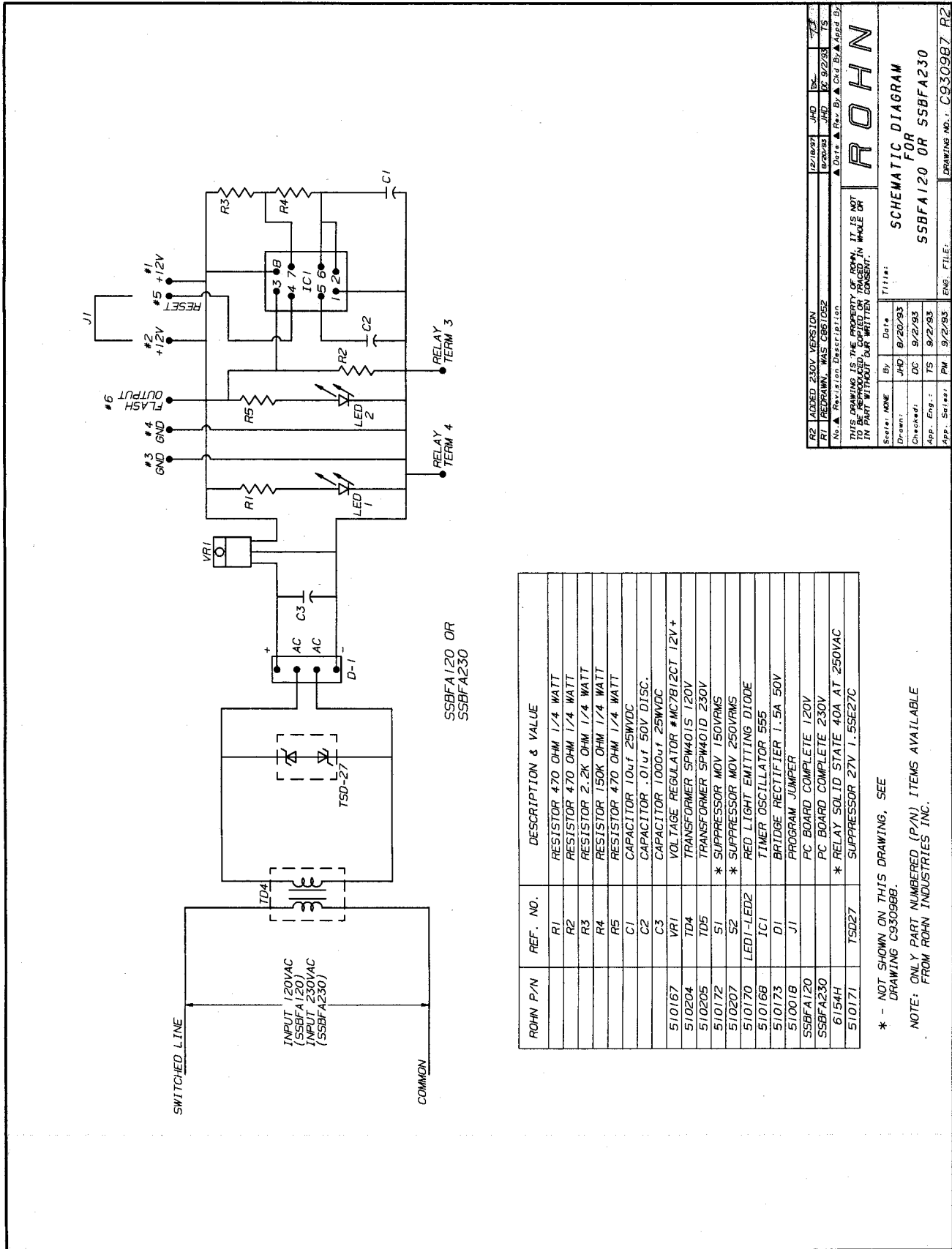
Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

**Note:** Wire lengths may vary due to structure height including appurtenances.

Prices and specifications are subject to change without notice.  
 F.O.B. Peoria, Illinois  
 See Drawing No. D960684 For Further Details







SSBFA120 OR  
SSBFA230

ROHN P/N	REF. NO.	DESCRIPTION & VALUE
	R1	RESISTOR 470 OHM 1/4 WATT
	R2	RESISTOR 470 OHM 1/4 WATT
	R3	RESISTOR 2.2K OHM 1/4 WATT
	R4	RESISTOR 150K OHM 1/4 WATT
	R5	RESISTOR 470 OHM 1/4 WATT
	C1	CAPACITOR 10uf 25WVDC
	C2	CAPACITOR .01uf 50V DISC.
	C3	CAPACITOR 1000uf 25WVDC
510167	VRI	VOLTAGE REGULATOR #MC7812CT 12V+
510204	T04	TRANSFORMER SPM401S 120V
510205	T05	TRANSFORMER SPM401D 230V
510172	S1	* SUPPRESSOR MOV 150VRMS
510207	S2	* SUPPRESSOR MOV 250VRMS
510170	LED1-LED2	RED LIGHT EMITTING DIODE
510168	IC1	TIMER OSCILLATOR 555
510173	D1	BRIDGE RECTIFIER 1.5A 50V
510018	J1	PROGRAM JUMPER
SSBFA120		PC BOARD COMPLETE 120V
SSBFA230		PC BOARD COMPLETE 230V
6154H		* RELAY SOLID STATE 40A AT 250VAC
510171	TSD27	SUPPRESSOR 27V 1.55E27C

\* - NOT SHOWN ON THIS DRAWING, SEE  
DRAWING C93098B.

NOTE: ONLY PART NUMBERED (P/N) ITEMS AVAILABLE  
FROM ROHN INDUSTRIES INC.

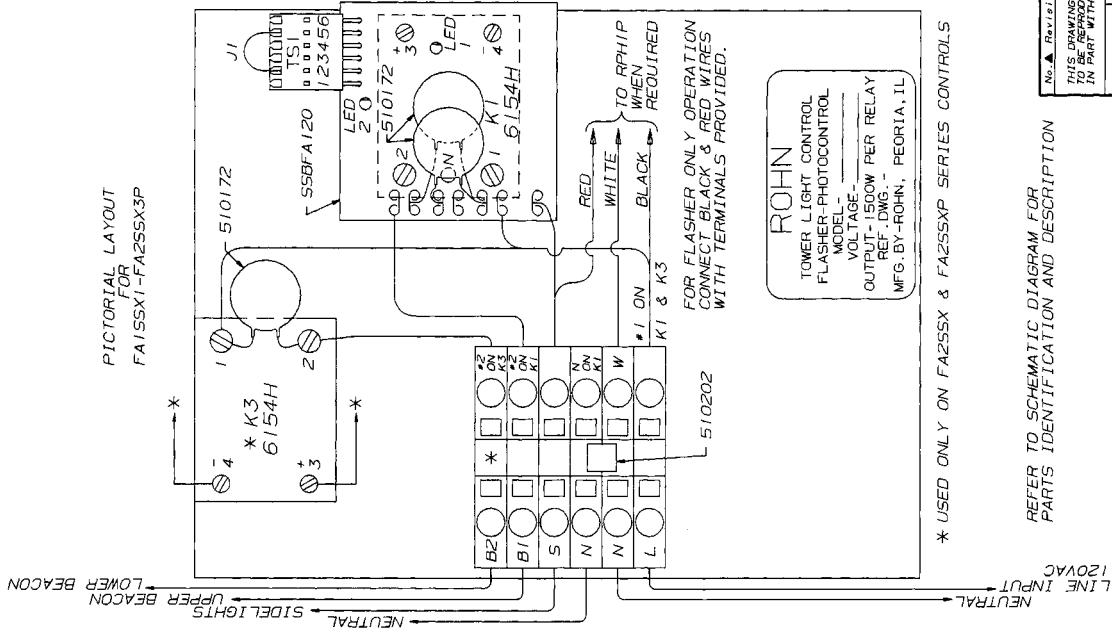
R2	ADDED 230V VERSION	12/18/91	JHD	DK
R1	REDRAWN, WAS C86105Z	8/20/93	JHD	DC 9/2/93 TS
No. ▲ Revision, Descr./p./Len		▲ Date	▲ Rev. By	▲ Ckd. By
<p>THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.</p> <h1 style="font-size: 2em; margin: 0;">ROHN</h1>				
Title:		SCHEMATIC DIAGRAM		
Drawn:		SSBFA120 OR SSBFA230		
Checked:		TS 9/2/93		
App. Eng.:		PM 9/2/93		
App. Sales:		ENG. FILE: C930987 R2		



\* ON TOWERS WITH 2 BEACONS, THE BEACONS FLASH ALTERNATELY OR TOGETHER, DEPENDING ON THE ORIGINAL TOWER WIRING. TO MAINTAIN COMPLIANCE WITH EITHER TYPE, THIS CONTROL MAY BE CONFIGURED FOR EITHER APPLICATION. FOR TOWERS WITH 1 BEACON, USE THE GREEN WIRE WITH THE GREEN AND BLACK WIRE. FOR ALTERNATE FLASH OPERATION, USE THE GREEN TO \*3 ON K3 AND BLACK ON \*4 OF K3. HARNESSES WITH THE GREEN AND RED WIRES GREEN TO \*4 ON K3 AND RED TO \*3 ON K3.

CONTROL ASSY P/N	DESCRIPTION
FAISSX1	CONTROL 1CKT FLASHER SOLID STATE 120V WITH OUTDOOR HOUSING
FAISSX2	CONTROL 1CKT FLASHER SOLID STATE PANEL ONLY 120V
FA2SSX1	CONTROL 2CKT FLASHER SOLID STATE 120V WITH OUTDOOR HOUSING
FA2SSX2	CONTROL 2CKT FLASHER SOLID STATE PANEL ONLY 120V
FAISSX1P	CONTROL 1CKT FLASHER & PHOTOCONTROL SOLID STATE 120V WITH OUTDOOR HOUSING
FAISSX3P	CONTROL 1CKT FLASHER & PHOTOCONTROL SOLID STATE 120V LESS OUTDOOR HOUSING
FA2SSX1P	CONTROL 2CKT FLASHER & PHOTOCONTROL SOLID STATE 120V WITH OUTDOOR HOUSING
FA2SSX3P	CONTROL 2CKT FLASHER & PHOTOCONTROL SOLID STATE 120V LESS OUTDOOR HOUSING
RPHIP	PHOTOCONTROL WITH MOUNTING SOCKET 120V, 1800VA CAPACITY

PICTORIAL LAYOUT FOR FAISSX1-FA2SSX3P



\* USED ONLY ON FA2SSX & FA2SSXP SERIES CONTROLS

REFER TO SCHEMATIC DIAGRAM FOR PARTS IDENTIFICATION AND DESCRIPTION

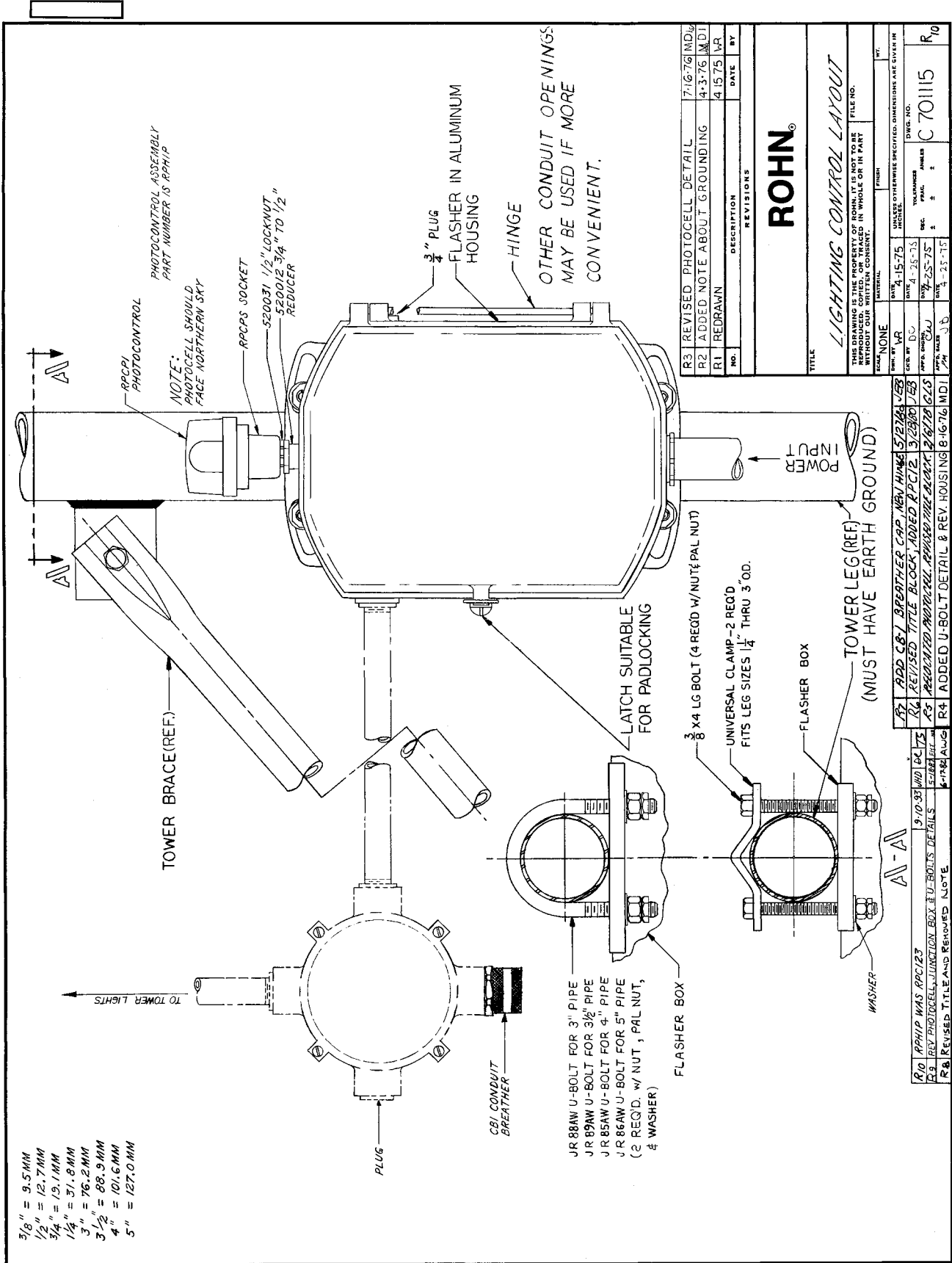
FAISSX1-FA2SSX3P FEATURES & SPECIFICATIONS

**PURPOSE:**  
FLASHER CONTROL FOR TOWERS WITH 1 OR 2 BEACONS.

**SPECIFICATIONS:**  
FLASHER RATE - 24 FPM  $\pm$  3 FPM  
POWER INPUT - 108-132VAC (120VAC NOMINAL)  
FLASHER OUTPUT - 1500 WATTS INCANDESCENT  
SIDELIGHT OUTPUT - 1800 WATTS INCANDESCENT  
PHOTOCONTROL TURN ON - BY OTHERS OR RPHIP.

- FEATURES:**
- 1.) FLASHER CIRCUIT IS LOW VOLTAGE AND ISOLATED FROM THE POWER LINE.
  - 2.) LIGHT EMITTING DIODES INDICATE OPERATION OF EACH SECTION OF CONTROL CIRCUITRY.
  - 3.) OPTIMIZED VOLTAGE SENSE POWER RELAYS PROVIDE ZERO VOLTAGE SWITCHING, LONGER LAMP LIFE AND REDUCED WFT CHG. LONGER UNWANTED PROTECTION RESPONDS TO LOCAL DISTRIBUTORS.
  - 4.) TRANSIENT PROTECTION OVERVOLTAGES TO UNWANTED DANGEROUS OVERVOLTAGES.
  - 5.) MOST COMPONENTS ARE AVAILABLE AT LOCAL DISTRIBUTORS.
  - 6.) WILL DIRECTLY REPLACE A3/A5SSX1 AND FAISS SERIES WITH THE SAME MOUNTING HOLES.
  - 7.) SOLID STATE RELAY WILL NOT SWITCH OFF WITHOUT A MINIMUM LOAD OF 2000 OHMS.
  - 8.) LED I&2 INDICATE PROPER OPERATION OF THE 1-POWER SUPPLY & 2-FLASHER.

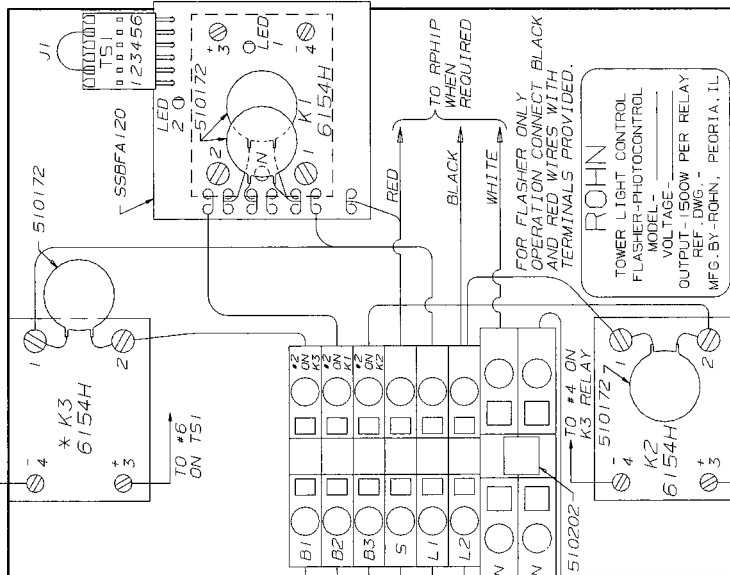
No. Revision Description		Date	Rev. By	Cr'd By	App'd By
THIS DRAWING IS THE PROPERTY OF ROHN, IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.					
Scale:	NONE	By:	JHD	Date:	9/20/93
Drawn:	JHD	Checked:	AK	Date:	9-20-93
App. Eng.:	JHD	App. Eng.:	JHD	Date:	9-20-93
App. Sales:	PA	App. Sales:	PA	Date:	9-10-93
Title:					ENG. FILE:
PICTORIAL LAYOUT FOR FAISSX1-FA2SSX3P					DRAWING NO.: C931016
ROHN					



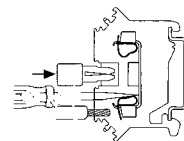


CONTROL ASSY. P/N	DESCRIPTION
FA35SXIP	CONTROL 3CKT FLASHER & PHOTOCONTROL SOLID STATE 120V WITH OUTDOOR HOUSING
FA35SX1	CONTROL 3CKT FLASHER SOLID STATE 120V WITH OUTDOOR HOUSING
FA35SX2	CONTROL 3CKT FLASHER SOLID STATE PANEL ONLY 120V
FA35SX3	CONTROL 3CKT FLASHER & PHOTOCONTROL SOLID STATE 120V LESS OUTDOOR HOUSING
RPHIP	PHOTOCONTROL WITH MOUNTING SOCKET 120V, 1800VA CAPACITY

PICTORIAL LAYOUT FOR FA35SXIP



REFER TO SCHEMATIC DIAGRAM FOR PARTS IDENTIFICATION AND DESCRIPTION



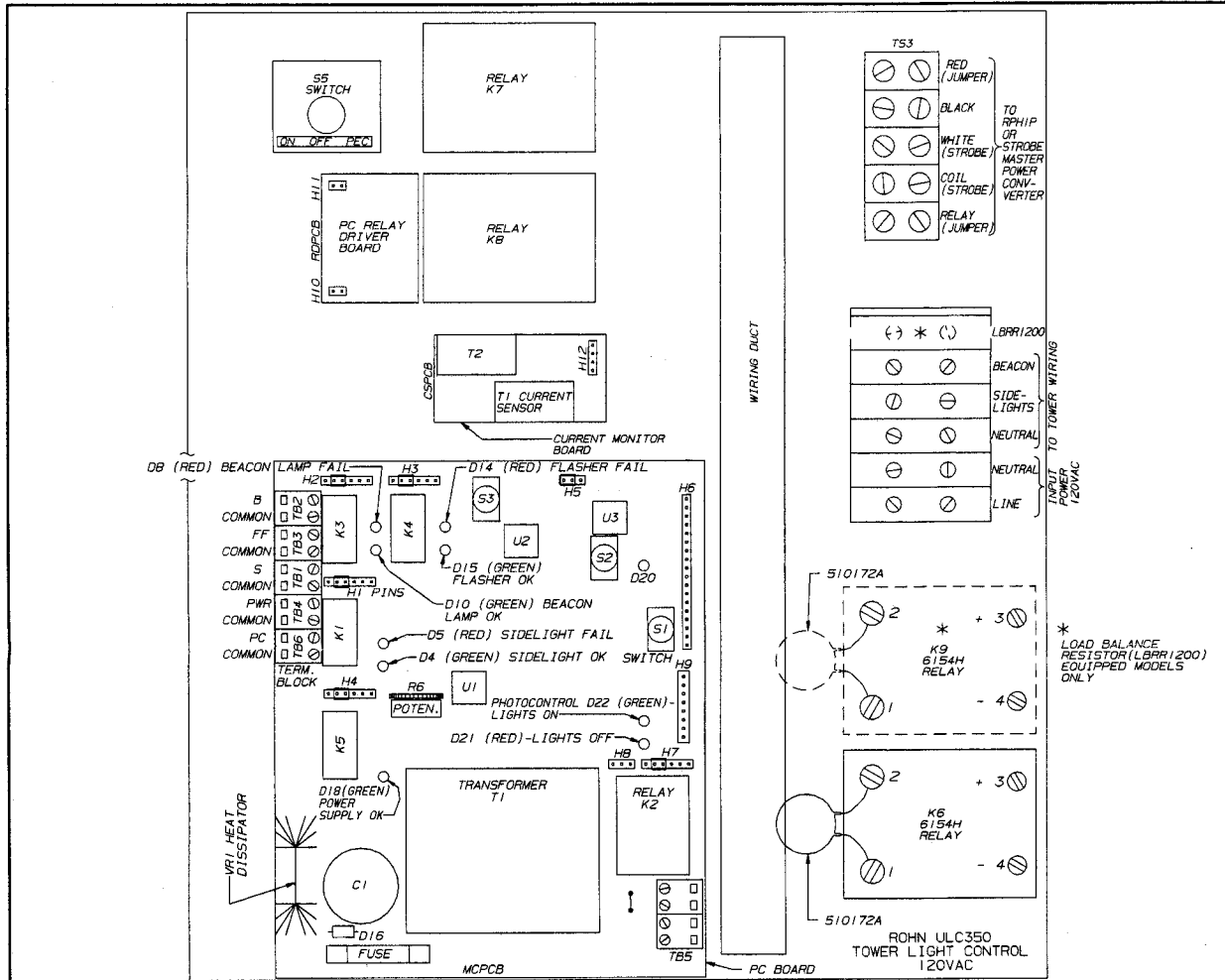
**FA35SXIP FEATURES & SPECIFICATIONS**

**PURPOSE:**  
FLASHER CONTROL FOR TOWERS WITH 3 BEACONS.

**SPECIFICATIONS:**  
FLASHER RATE - 24 FPM  $\pm$  3 FPM  
POWER INPUT - 108-132VAC (120VAC NOMINAL)  
FLASHER OUTPUT - 1500 WATTS INCANDESCENT  
SIDELIGHT OUTPUT - 1800 WATTS INCANDESCENT  
PHOTOCONTROL TURN ON - BY OTHERS OR RPHIP.

- FEATURES:**
- 1.) FLASHER CIRCUIT IS LOW VOLTAGE AND ISOLATED FROM THE POWER LINE.
  - 2.) LIGHT EMITTING DIODES INDICATE OPERATION OF EACH SECTION OF CONTROL CIRCUITRY.
  - 3.) OPTO-ISOLATED SOLID STATE POWER RELAYS PROVIDE ZERO VOLTAGE SWITCHING, LONGER LAMP LIFE AND REDUCED RFI.
  - 4.) TRANSIENT PROTECTION RESPONDS TO UNWANTED DANGEROUS OVERVOLTAGES. LOCAL OUTLET BUTONES AVAILABLE AT HOLES.
  - 5.) WILL DIRECTLY REPLACE A3/455SX1 AND FA35 SERIES WITH THE SAME MOUNTING HOLES.
  - 6.) SOLID STATE RELAY WILL NOT SWITCH OFF WITHOUT A MINIMUM LOAD OF 2000 OHMS.
  - 7.) LED 1&2 INDICATE PROPER OPERATION OF THE 1-POWER SUPPLY & 2-FLASHER.

No. <b>Revision Description</b>		Date		Rev. By		Crd. By		App. By	
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.									
Series: NONE		By: JMD		Date: 1/25/94		Title: <b>ROHN</b>			
Drawn: JMD		Checked: JMD		Date: 1-26-94		PICTORIAL LAYOUT FOR FA35SXIP			
App. Eng.: JS		App. Eng.: JS		Date: 1-26-94		DRAWING NO.: <b>C940639</b>			
App. Sales: PM		App. Sales: PM		Date: 1-26-94		ENS. FILE:			



**MODEL ULC350 RED LIGHT CONTROLLER INSTALLATION DETAILS & SPECIFICATIONS**

THE ULC350 IS A UNIVERSAL RED LIGHT CONTROL SUITABLE FOR OPERATION AS A RED ONLY CONTROLLER, OR IN CONJUNCTION WITH A STROBE FOR DUAL TOWER LIGHTING ON TOWERS LESS THAN 350' AGL. FEATURES AND SPECIFICATIONS ARE AS FOLLOWS.

- 1) ALL ALARM OUTPUTS MAY BE CONFIGURED AS N/O OR N/C BY SIMPLY MOVING A FIELD SELECTABLE JUMPER.
- 2) ALL ALARM COMMONS ARE AVAILABLE TO THE USER FOR USE WITH DISCRETE ALARM CHANNELS OR, ALL ALARMS MAY BE DAISY-CHAINED TO MONITOR ALL FUNCTIONS WITH ONE (1) ALARM CHANNEL (N/C, N/O).
- 3) TEST SWITCHES FACILITATE TESTING OF EACH ALARM, AND RED-GREEN LIGHT EMITTING DIODES PROVIDE FOR INSTANT VISUAL INDICATION OF ALL ALARM FUNCTIONS. NO NEED TO VERIFY EACH ALARM WITH EXTERNAL TEST EQUIPMENT.
- 4) TRANSIENT OVER VOLTAGE PROTECTION IS PROVIDED ON THE PC BOARD, SOLID STATE RELAY, AND PHOTOCONTROL, THROUGH OPTO-ISOLATION, TORRID TRANSFORMERS, MOV'S AND SOLID STATE SUPPRESSORS.
- 5) ALL ALARM FUNCTION ARE FAILSAFE AND PROVIDE FOR THE FOLLOWING.
  - a. PHOTO-CONTROL ON-OFF VERIFICATION.
  - b. AC/PCB POWER SUPPLY VERIFICATION.
  - c. SIDELIGHT LAMP OUT INDICATION (FIELD ADJUSTABLE).
  - d. FLASHER FAIL INDICATION WITH AUTOMATIC BEACON IF FLASHER CIRCUIT FAILS.
  - e. FIELD PROGRAMMABLE BEACON LAMP OUT INDICATION TO INDICATE FAILURE OF 1 OF 2 BEACON LAMPS OR 2 OF 2 BEACON LAMPS.
- 6) MANUAL OVERRIDE SWITCH FOR ON-OFF-PEC OPERATION TO FACILITATE SERVICING, TESTING, AND TROUBLE SHOOTING.
- 7) ALL ALARMS ARE PRESET TO CLOSE ON FAIL. REFER TO SERVICE MANUAL FOR PART NUMBERS, THEORY OF OPERATION AND LOCATION OF PROGRAMMING JUMPERS.
- 8) K9 USED ON LBRR1200 EQUIPPED MODELS ONLY.

**FIELD TEST PROCEDURE**

**SIDELIGHT LAMP OUT**

1. TEST SIDELIGHT CIRCUIT PER ABOVE CALIBRATION PROCEDURE.

**BEACON LAMP OUT**

1. FLIP S5 TO THE ON POSITION.
2. WITH S3 DOWN AND 2-6000 B620W LAMPS IN THE BEACON, THE GREEN LED D10 SHOULD BE ON.
3. FLIP S3 UP TO SIMULATE A BAD BEACON LAMP.
4. AFTER A SHORT DELAY THE GREEN LED D10 SHOULD GO OFF AND THE RED LED D8 SHOULD COME ON INDICATING AN ALARM CONDITION.

**FLASHER FAIL TEST**

- 1) S5 IS STILL IN THE ON POSITION.
- 2) NOTE THAT D20 IS FLASHING AND WHEN S2 IS FLIPPED UP D20 GOES OUT. THE FLASHER HAS NOW STOPPED AND AFTER A SHORT DELAY THE GREEN LED D15 SHOULD GO OFF, AND THE RED LED D14 SHOULD COME ON INDICATING A FLASHER FAIL ALARM. RELAY K9 WILL ALSO DE-ENERGIZE AND TURN THE BEACON ON STEADY. TO RESET THE ALARM, FLIP S5 TO THE OFF POSITION AND FLIP S2 BACK TO THE DOWN POSITION. RETURN S5 TO THE PEC POSITION TO RESUME NORMAL OPERATION. TEST COMPLETE.

ULC350	COMPLETE CONTROL
ULC350PNL	LESS H5G & PHOTOCONTROL
ULC350NEMA4	W/NEMA4 OUTDOOR HOUSING
ULC350LPC	LESS PHOTOCONTROL

**FIELD CALIBRATION PROCEDURE**

SIDELIGHT ALARM CALIBRATION IS REQUIRED FOR PROPER OPERATION OF THE SIDELIGHT ALARM CIRCUIT. NOTE: RED LEDS INDICATE ALARM CONDITIONS, GREEN LEDS INDICATE SYSTEM OK.

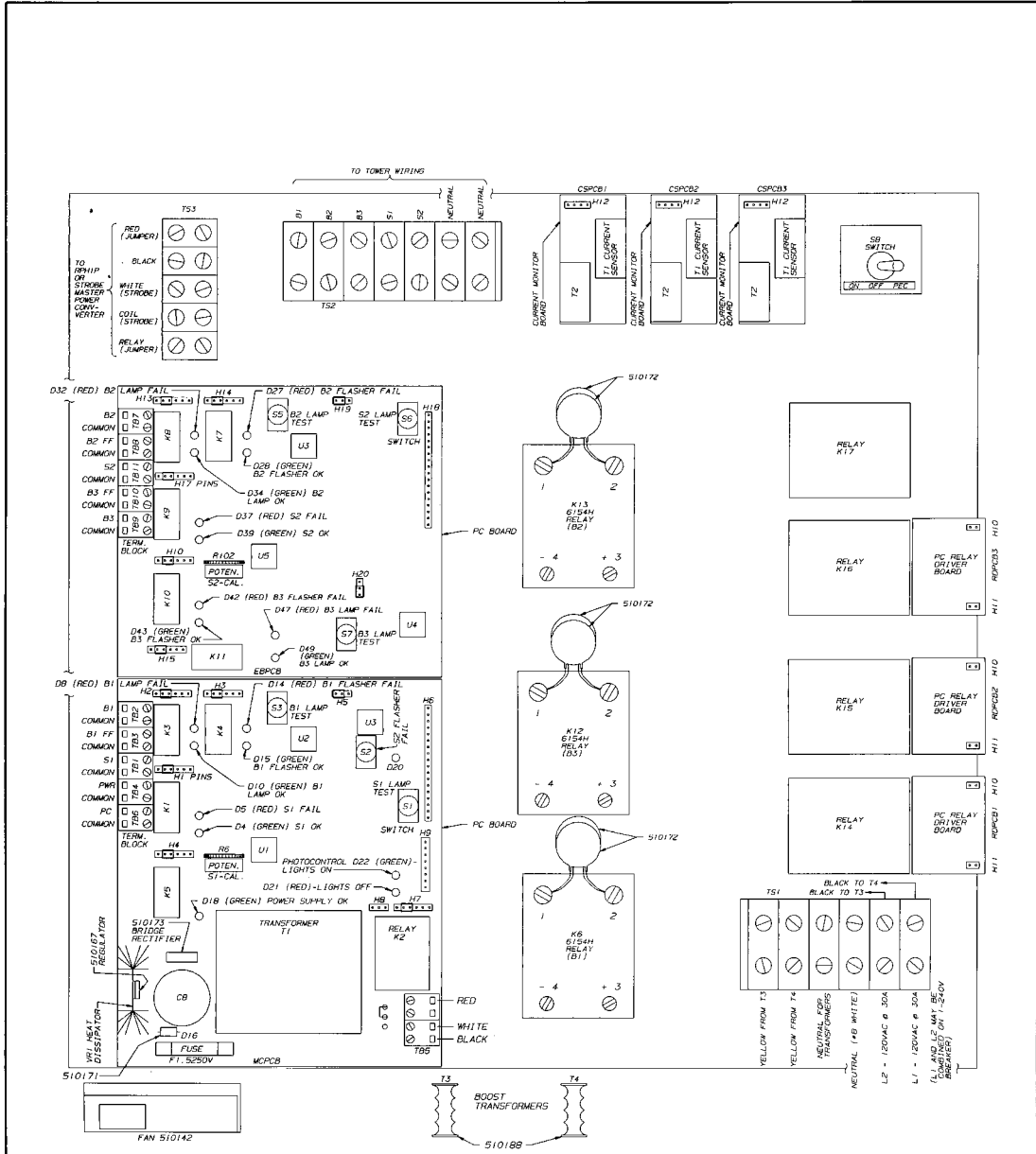
- 1) FLIP S5 TO THE ON POSITION (S1, 2 & 3 DOWN).
- 2) D22 SHOULD NOW BE ON TO INDICATE TOWER LIGHTS ARE ON AND D20 SHOULD BE FLASHING.

R3	REDESIGNED	8/18/97	JHD	DC	TS
R2	MOVED TERMINAL BLOCKS	8/18/95	JHD	DC	TS
R1	REVISED JUMPER AND SWITCH NOTES	11/14/94	JHD	DC	TS

No. ▲ Revision Description		▲ Date ▲ Rev By ▲ Ckd By ▲ Appd By	
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<b>ROHN</b>			
Scale: NONE	By: JHD	Date: 10/19/94	Title: PICTORIAL LAYOUT FOR ULC350
Drawn: JHD	Checked: DC	App. Eng.: TS	
App. Eng.: TS	App. Sales: SAK	Date: 10/21/94	
ENG. FILE:		DRAWING NO.: C941430R3	







### MODEL ULC700 RED LIGHT CONTROLLER INSTALLATION DETAILS & SPECIFICATIONS

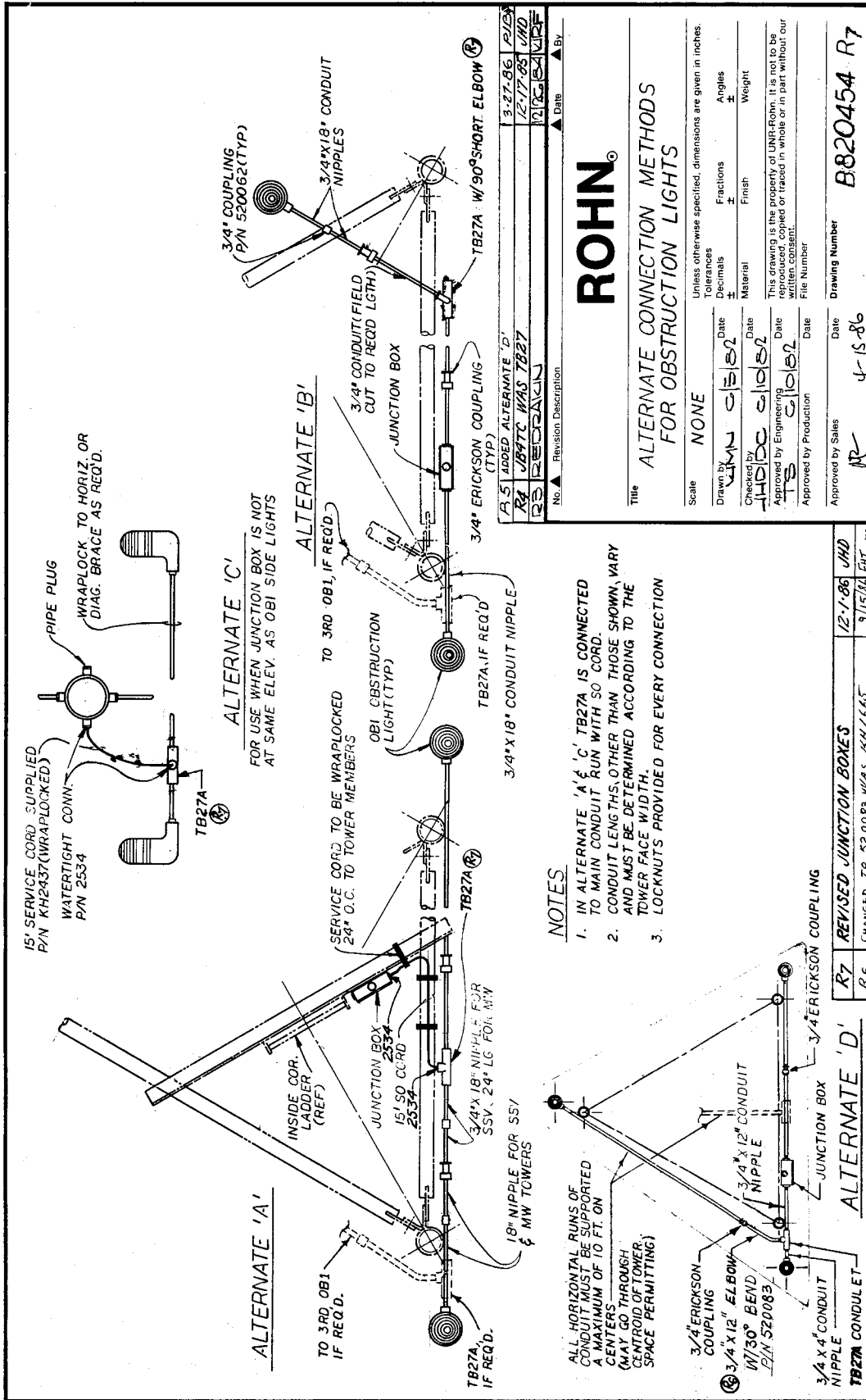
- THE ULC700 IS A UNIVERSAL RED LIGHT CONTROL SUITABLE FOR OPERATION AS A RED ONLY CONTROLLER, OR IN CONJUNCTION WITH A STROBE FOR DUAL TOWER LIGHTING ON TOWERS FROM 35' TO 700' AGL. FEATURES AND SPECIFICATIONS ARE AS FOLLOWS:
- 1) ALL ALARM OUTPUTS MAY BE CONFIGURED AS N/O OR N/C BY SIMPLY MOVING A FIELD SELECTABLE JUMPER.
  - 2) ALL ALARM COMMONS ARE AVAILABLE TO THE USER FOR USE WITH DISCRETE ALARM CHANNELS OR, ALL ALARMS MAY BE DAISY-CHAINED TO MONITOR ALL FUNCTIONS WITH ONE (1) ALARM CHANNEL (N/C, N/O).
  - 3) TEST SWITCHES FACILITATE TESTING OF EACH ALARM, AND RED-GREEN LIGHT EMITTING DIODES PROVIDE FOR INSTANT VISUAL INDICATION OF ALL ALARM FUNCTIONS, NO NEED TO VERIFY EACH ALARM WITH EXTERNAL TEST EQUIPMENT.
  - 4) TRANSIENT OVER VOLTAGE PROTECTION IS PROVIDED ON THE PC BOARD, SOLID STATE RELAY, AND PHOTOCONTROL, THROUGH OPTO-ISOLATION, TORRIDE TRANSFORMERS, MOV'S AND SOLID STATE SUPPRESSORS.
  - 5) ALL ALARM FUNCTION ARE FAILSAFE AND PROVIDE FOR THE FOLLOWING:
    - a. PHOTO-CONTROL ON-OFF VERIFICATION.
    - b. AC/PCB POWER SUPPLY VERIFICATION.
    - c. SIDELIGHT LAMP OUT INDICATION (FIELD ADJUSTABLE).
    - d. FLASHER FAIL INDICATION WITH AUTOMATIC BEACON ON IF FLASHER CIRCUIT FAILS.
    - e. FIELD PROGRAMMABLE BEACON LAMP OUT INDICATION TO INDICATE FAILURE OF 1 OF 2 BEACON LAMPS OR 2 OF 2 BEACON LAMPS, FOR EACH BEACON TRANSFORMERS, MOV'S AND SOLID STATE SUPPRESSORS.
  - 6) MANUAL OVERRIDE SWITCH FOR ON-OFF-PEC OPERATION TO FACILITATE SERVICING, TESTING, AND TROUBLE SHOOTING.
  - 7) ALL ALARMS ARE PRESET TO CLOSE ON FAIL. REFER TO SERVICE MANUAL FOR PART NUMBERS, THEORY OF OPERATION AND LOCATION OF PROGRAMMING JUMPERS.
- FIELD CALIBRATION PROCEDURE**  
SIDELIGHT ALARM CALIBRATION IS REQUIRED FOR PROPER OPERATION OF THE SIDELIGHT ALARM CIRCUIT. NOTE: RED LEDS INDICATE ALARM CONDITIONS, GREEN LEDS INDICATE SYSTEM OK.
- 1) FLIP S3 TO THE ON POSITION (S1, 2, 3, 5, 6, 4, 7 DOWN).
  - 2) D22 SHOULD NOW BE ON TO INDICATE TOWER LIGHTS ARE ON AND D20 SHOULD BE FLASHING.
  - 3) FOR THE UPPER SIDELIGHTS, ROTATE R5 CW AS VIEWED FROM THE TOP UNTIL RED LED D5 COMES ON. (THE SIDELIGHT CIRCUIT MUST HAVE 2-0B11W'S TO CLEAR THE ALARM, AND WILL WORK WITH UP TO 6-0B11W'S.) SLOWLY ROTATE R5 CCW UNTIL THE RED D5 GOES OFF AND THE GREEN D4 COMES ON. FLIP S1 UP TO SIMULATE A SIDELIGHT FAILURE AND WATCH FOR D4 TO TURN OFF & D5 TO COME ON. NOTE THE TIME DELAY FROM ON TO OFF & VICE VERSA. CONTINUE TO ROTATE R5 WHILE FLIPPING S1 UNTIL THE TIME DELAY APPEARS EQUAL FROM ON TO OFF & VICE VERSA. RETURN S1 TO THE DOWN POSITION. REPEAT THE ABOVE PROCEDURE FOR THE LOWER SIDELIGHTS USING R102 AND S6, D37 & D39.
  - 5) FLIP S3 DOWN, AND THE GREEN LED D10 SHOULD COME BACK ON AND THE RED LED D9 SHOULD GO OFF. REPEAT THE ABOVE PROCEDURE FOR B2 & B3 USING S5, D32, D34 FOR B2 AND S7, D47 & D49 FOR B3. TEST COMPLETE.
- FLASHER FAIL TEST**
- 1) S8 IS STILL IN THE ON POSITION.
  - 2) NOTE THAT D20 IS FLASHING AND WHEN S2 IS FLIPPED UP D20 GOES OFF. THE FLASHER HAS NOW STOPPED AND AFTER A SHORT DELAY THE GREEN LED D15 SHOULD GO OFF, AND THE RED LED D14 SHOULD COME ON INDICATING A FLASHER FAIL ALARM FOR B1. RELAY K14 WILL ALSO DE-ENERGIZE AND TURN THE B1 BEACON ON STEADY. ALSO NOTE THAT GREEN D39 AND D43 TURN OFF AND RED D27 AND D42 TURN ON INDICATING B2 AND B3 HAVE STOPPED FLASHING. K15 FOR B3 AND K16 (FOR B2) WILL DE-ENERGIZE AND TURN BOTH BEACONS ON STEADY. TO RESET THE ALARM, FLIP S8 TO THE OFF POSITION AND FLIP S2 BACK TO THE DOWN POSITION. RETURN S8 TO THE PEC POSITION TO RESUME NORMAL OPERATION. TEST COMPLETE.
- FIELD TEST PROCEDURE**  
SIDELIGHT LAMP OUT
- 1) TEST SIDELIGHT CIRCUIT PER ABOVE CALIBRATION PROCEDURE.
  - 2) WITH S3 DOWN AND 2-0B00 REDDOWN LAMPS IN THE BEACON, THE GREEN LED D10 SHOULD BE ON.
  - 3) FLIP S3 UP TO SIMULATE A BAD BEACON LAMP.
  - 4) AFTER A SHORT DELAY THE GREEN LED D10 SHOULD GO OFF AND THE RED LED D9 SHOULD COME ON INDICATING AN ALARM CONDITION.

ULC700	COMPLETE CONTROL
ULC700P	LESS HSG & PHOTOCONTROL
ULC700M44	WINDMILL OUTDOOR HOUSING
ULC700LPC	LESS PHOTOCONTROL

REV	DATE	DESCRIPTION	BY	CHKD BY	DATE
01	08/23/95	INITIAL DESIGN	JCH	JCH	08/23/95
02	08/23/95	REVISED FOR PHOTOCALIBRATION	JCH	JCH	08/23/95
03	08/23/95	REVISED FOR PHOTOCALIBRATION	JCH	JCH	08/23/95
04	08/23/95	REVISED FOR PHOTOCALIBRATION	JCH	JCH	08/23/95

**PICTORIAL LAYOUT FOR ULC700**

DRAWING NO. D950891R1



# ROHN®

## ALTERNATE CONNECTION METHODS FOR OBSTRUCTION LIGHTS

No.	Revision Description	Date	By
R5	ADDED ALTERNATE 'D'	3-27-86	PLD
R4	1/8\"/>		
R3	REDESIGN	12-17-85	UHO
R2	REDESIGN	12-15-84	UHO

Scale: NONE

Unless otherwise specified, dimensions are given in inches.

Drawn by	UHN	Date	3/15/86
Checked by	JHDC	Date	3/15/86
Approved by Engineering	TS	Date	3/15/86
Approved by Production		Date	
Approved by Sales	R	Date	4-15-86

Drawing Number: B820454-R7

- NOTES**
1. IN ALTERNATE 'A', 'C', 'TB27A IS CONNECTED TO MAIN CONDUIT RUN WITH SO CORD.
  2. CONDUIT LENGTHS, OTHER THAN THOSE SHOWN, VARY AND MUST BE DETERMINED ACCORDING TO THE TOWER FACE WIDTH.
  3. LOCKNUTS PROVIDED FOR EVERY CONNECTION

R7	REVISED JUNCTION BOXES	12-1-86	UHO
R6	CHANGED TO 520083, W/AS. 441/145	3/15/86	PLD

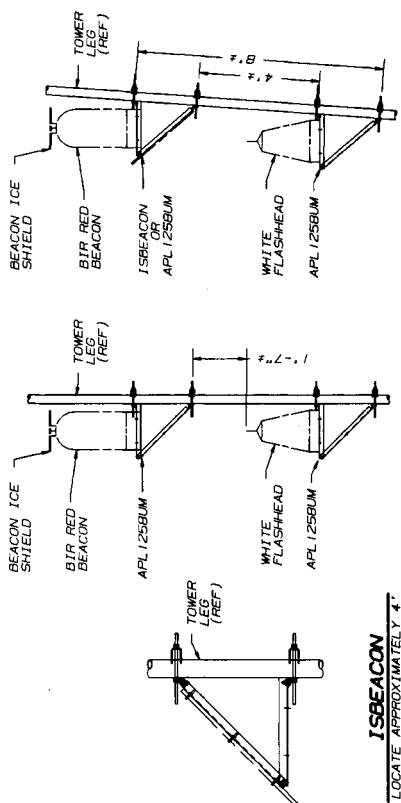
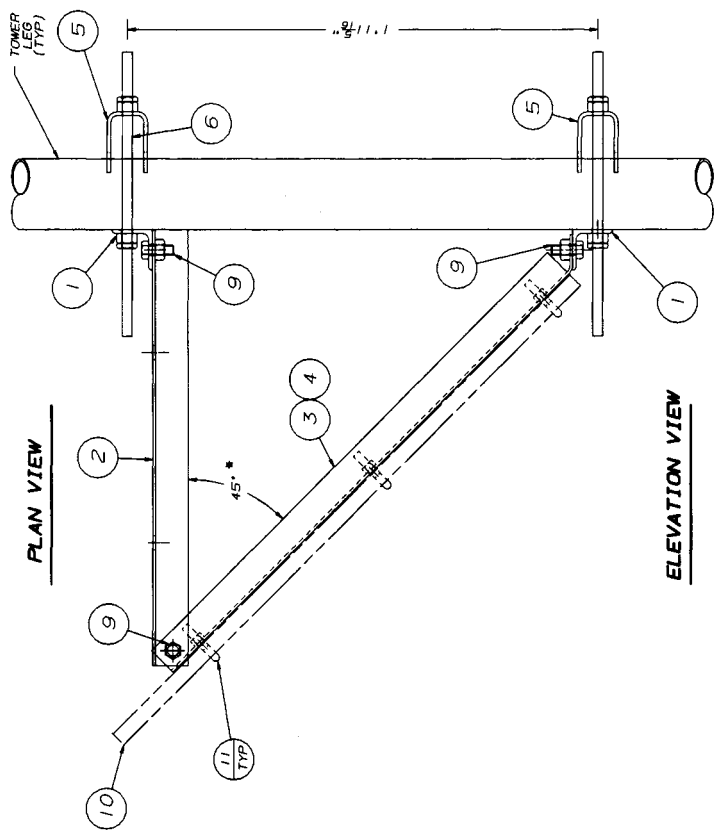
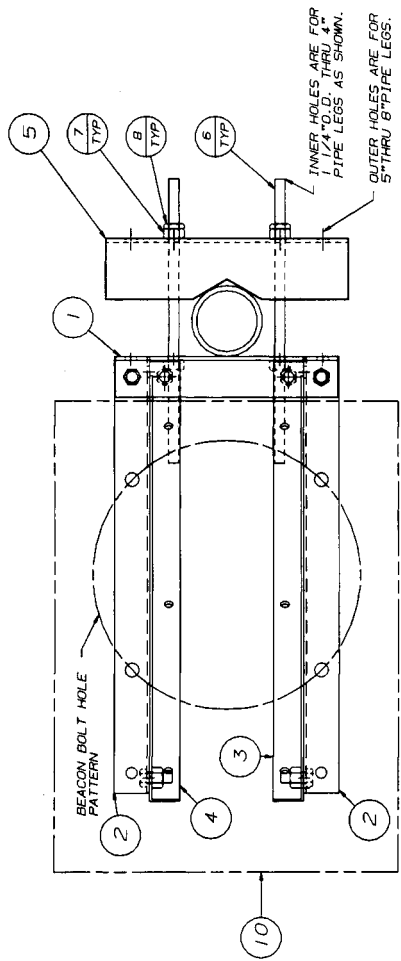
BRUNING 40-105-41503.3



ASSY P/N APL125BLM BILL OF MATERIAL				
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	KH4479	SUPPORT BRACKET L2 X 3/16"	B911674
2	2	KH4479	SUPPORT BRACKET L1 3/4 X 3/16"	B911675
3	1	KH4480	ANGLE KNEE BRACE L1 1/2 X 1/8"	B911676
4	1	KH4481	ANGLE KNEE BRACE L1 1/2 X 1/8"	B911676
5	2	KH3238	CLAMP	C861055
6	4	2102558	1/2" THREADED ROD 14"	N/A
7	8	2300113	1/2" PAL NUT	C770404
8	8	2300111	1/2" PAL NUT	C770404
9	6	2100176A	BOLT ASSY 1/4 X 1 1/4"	C770404

ASSY P/N ISEACON BILL OF MATERIAL				
ITEM	QUAN.	PART NO.	DESCRIPTION	DWG. NO.
1	2	KH4479	SUPPORT BRACKET L2 X 3/16"	B911674
2	2	KH4479	SUPPORT BRACKET L1 3/4 X 3/16"	B911675
3	1	KH4480	ANGLE KNEE BRACE L1 1/2 X 1/8"	B911676
4	1	KH4481	ANGLE KNEE BRACE L1 1/2 X 1/8"	B911676
5	2	KH3238	CLAMP	C861055
6	4	2102558	1/2" THREADED ROD 14"	N/A
7	8	2300113	1/2" PAL NUT	C770404
8	8	2300111	1/2" PAL NUT	C770404
9	6	2100176A	BOLT ASSY 1/4 X 1 1/4"	C770404
10	1	KH4482	3LB GRATING ICE SHIELD	B911686
11	6	J167A	J-BOLT ASSY 3/8 X 1-5/8"	B910973

\* BEACON MOUNTING SURFACE SHALL BE LEVEL. ADJUST KNEE BRACE ANGLE ACCORDINGLY ON A TAPERED LEGS.

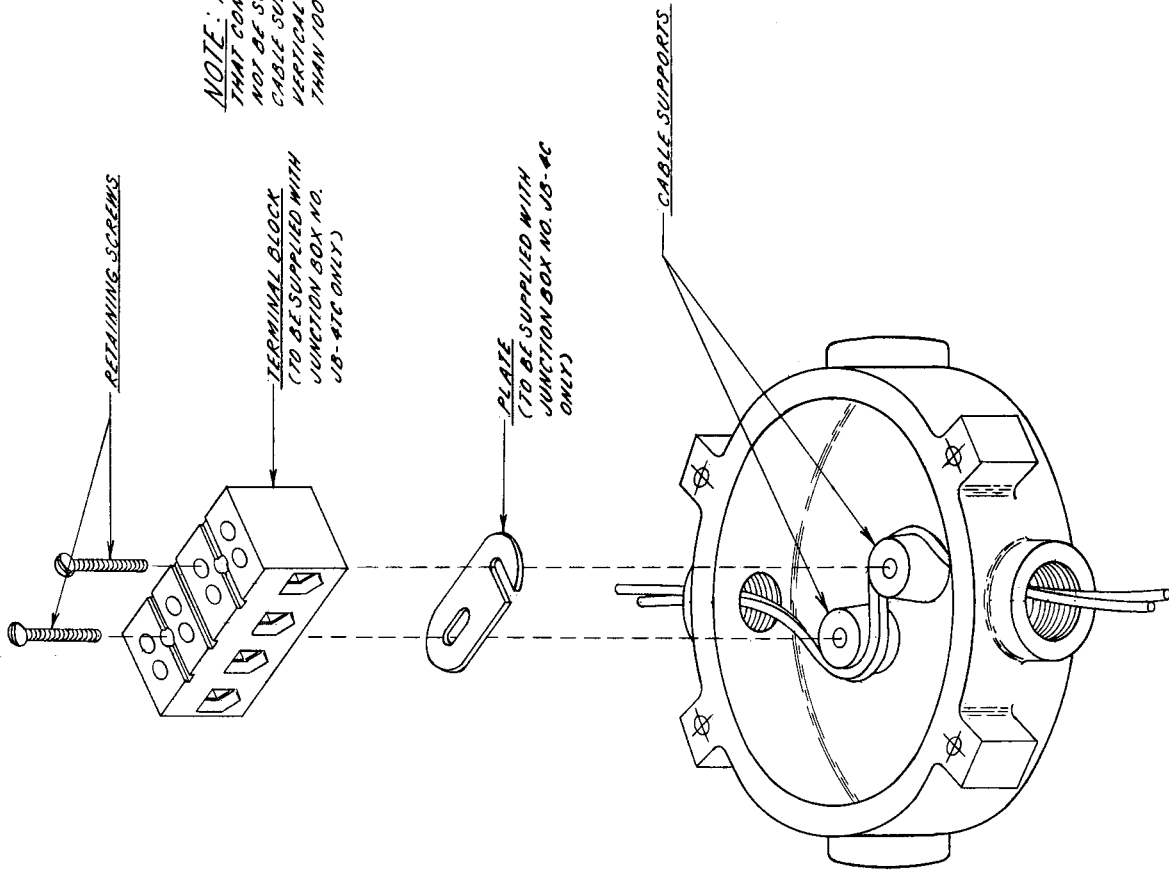


RT	REMOVED BEACON ICE SHIELD P/N-TSIBIR	4-19-96	PJD	12/11	TS
No.	Revision Description	Date	By	Chk	App'd By
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Scale:	None	By:	RMG	Date:	12-5-91
Drawn:	MDU	Date:	12-11-91		
Checked:	TS	Date:	12-12-91		
App. Eng.:	JC	Date:	12-12-91		
App. Sales:		Date:			
Title:				ROHN	
Description:				MID BEACON PLATE ASSEMBLY AND BEACON ICE SHIELD 1 1/4" O.D THRU 8" LEGS	
Drawing No.:				C911682RI	

SEE TOWER ASSEMBLY DRAWING IF ADDITIONAL LIGHTS ARE REQUIRED.



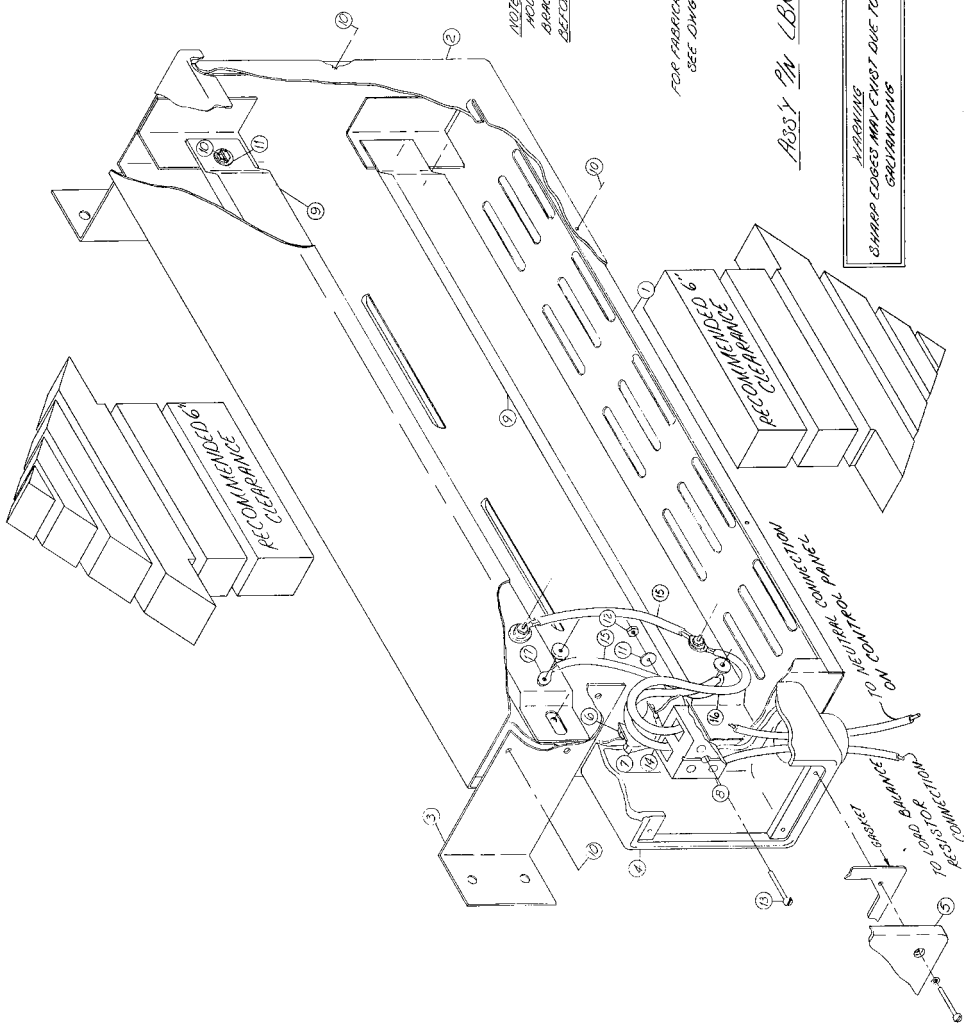
*NOTE: THE NATIONAL ELECTRIC CODE STATES THAT CONDUCTORS IN VERTICAL RUNS SHALL NOT BE SUPPORTED BY TERMINALS AND THAT CABLE SUPPORTS SHALL BE PROVIDED IN EACH VERTICAL RUN AT INTERVALS NOT GREATER THAN 100 FEET.*



No. 4	Revision	Description	Date	By
Unarco-Rohn			6	
Division of Unarco Industries, Inc.				
<b>JUNCTION BOX CABLE SUPPORT</b>				
Scale: NONE				
Units, otherwise specified, dimensions are given in inches.				
Tolerances	Decimals	Fractions	Angles	Weight
±	±	±	±	±
Drawn by	GLS	Date	2/10/76	
Checked by	WAC	Date	2-13-76	
Approved for Drawing	CU	Date	2-13-76	
Approved by Production		Date		
Approved by Sales	PAK	Date	2-16-76	
Drawing Number			C-760126	



ITEM	QTY	PART NO.	DESCRIPTION	UNIT	NO.
1	1	520001	HOUSING W/ GUARD	ASSEMBLY	2820033
2	1	520002	HOUSING W/ GUARD	ASSEMBLY	2820033
3	1	520003	HOUSING W/ GUARD	ASSEMBLY	2820033
4	1	520004	HOUSING W/ GUARD	ASSEMBLY	2820033
5	1	520005	HOUSING W/ GUARD	ASSEMBLY	2820033
6	1	520006	HOUSING W/ GUARD	ASSEMBLY	2820033
7	1	520007	HOUSING W/ GUARD	ASSEMBLY	2820033
8	1	520008	HOUSING W/ GUARD	ASSEMBLY	2820033
9	1	520009	HOUSING W/ GUARD	ASSEMBLY	2820033
10	1	520010	HOUSING W/ GUARD	ASSEMBLY	2820033
11	1	520011	HOUSING W/ GUARD	ASSEMBLY	2820033
12	1	520012	HOUSING W/ GUARD	ASSEMBLY	2820033
13	1	520013	HOUSING W/ GUARD	ASSEMBLY	2820033
14	1	520014	HOUSING W/ GUARD	ASSEMBLY	2820033
15	1	520015	HOUSING W/ GUARD	ASSEMBLY	2820033
16	1	520016	HOUSING W/ GUARD	ASSEMBLY	2820033
17	1	520017	HOUSING W/ GUARD	ASSEMBLY	2820033



**Unarco-Rohn**  
Division of United Industries, Inc.

**LONG BALANCE RESISTOR**

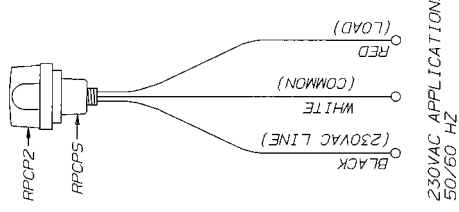
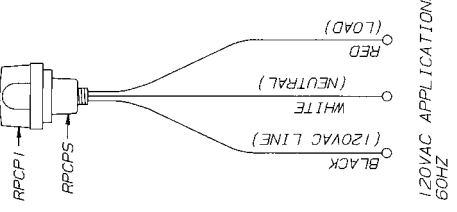
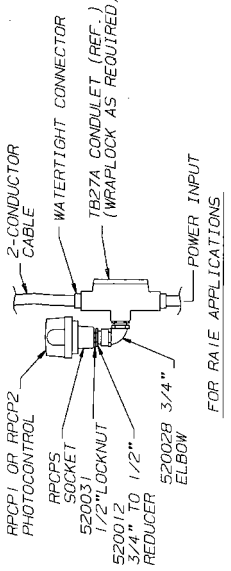
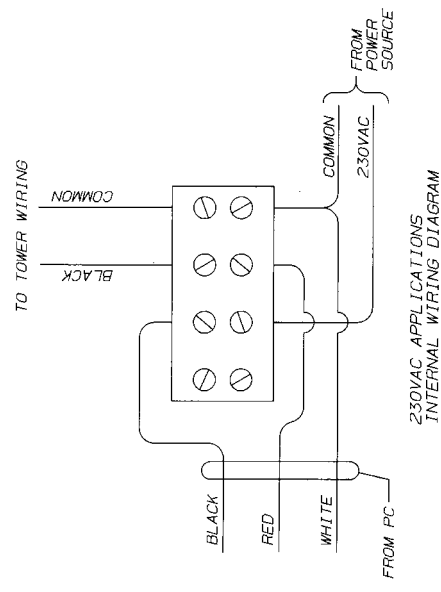
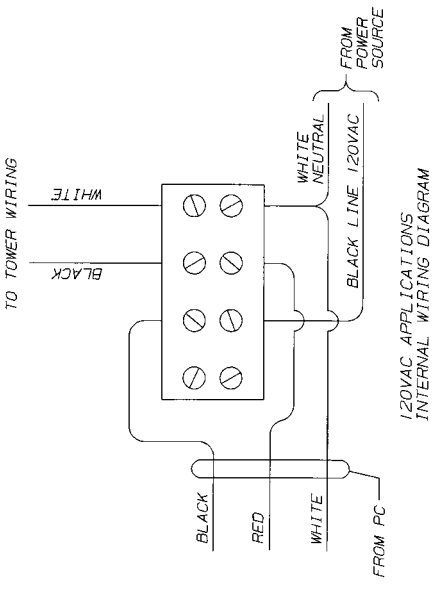
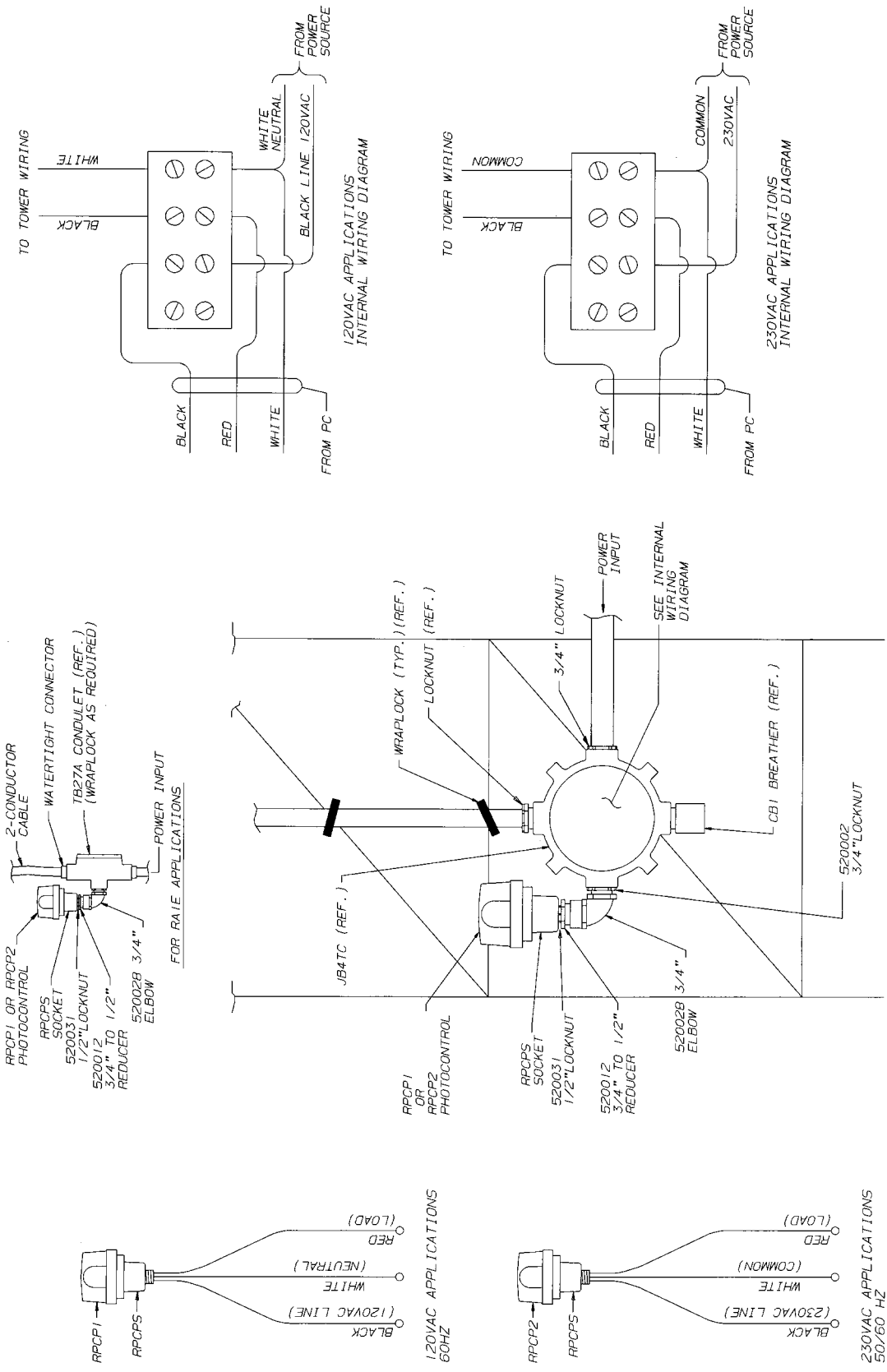
PROJECT: CBR1200  
DATE: 1/28/81  
BY: J. J. [Signature]

APPROVED BY: [Signature]  
DATE: 1/28/81

REVISIONS:

NO.	DESCRIPTION	DATE	BY
1	REVISED TO SHOW HOT-DIP GALVANIZING	1/28/81	J. J.
2	REVISED TO SHOW HOT-DIP GALVANIZING	1/28/81	J. J.
3	REVISED TO SHOW HOT-DIP GALVANIZING	1/28/81	J. J.
4	REVISED TO SHOW HOT-DIP GALVANIZING	1/28/81	J. J.
5	REVISED TO SHOW HOT-DIP GALVANIZING	1/28/81	J. J.
6	REVISED TO SHOW HOT-DIP GALVANIZING	1/28/81	J. J.





- NOTES: 1) RPHIP AND RPH2P INCLUDE PHOTOCONTROL, SOCKET AND CONDUIT FITTINGS REQUIRED FOR MOUNTING TO A 3/4" CONDUIT HUB.  
 2) PHOTOCONTROL SHOULD HAVE AN UNOBSTRUCTED VIEW OF THE NORTH SKY.  
 3) LOAD RATING IS 1800VA (RPCP1 & RPCP2).  
 4) PROVIDE OVER CURRENT PROTECTION PER NEC OR LOCAL CODES.

R1 RAIED RATE PHOTOCONTROL DETAIL		12/13/94	JHD	PK	YS
No. Revision Description		Date	Rev.	By	App. By
THIS DRAWING IS THE PROPERTY OF RAIE. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT OUR WRITTEN CONSENT.					
Title:		ROHN			
Scale:	MPE	By:	JHD	Date:	3/18/93
Drawn:	JHD	3/18/93			
Checked:	DC	3/24/93			
App. Eng.:	TS	3/25/93			
App. Sales:	PM	3/26/93			
Title:		RPHIP (120V) AND RPH2P (230V) PHOTO CONTROL DETAILS			
Drawing No.:		C930709R1			



### C H A R T

ITEM	PART NO.	REV.	QTY.	UNIT	REMARKS
1	547770	1	1	PC	CONDUIT
2	547770	1	1	PC	CONDUIT
3	547770	1	1	PC	CONDUIT
4	547770	1	1	PC	CONDUIT
5	547770	1	1	PC	CONDUIT
6	547770	1	1	PC	CONDUIT
7	547770	1	1	PC	CONDUIT
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74	547770	1	1	PC	CONDUIT
75	547770	1	1	PC	CONDUIT

**\*\* CONDUIT REPLACES 2 RINGS AND CASSETS FOR 8-8 EFFECTIVE 11/05 - 12/97.**  
**\*\* CONDUIT REPLACES 2 RINGS AND CASSETS FOR 8-8 EFFECTIVE 11/05 - 12/97.**  
**\*\* CONDUIT REPLACES 2 RINGS AND CASSETS FOR 8-8 EFFECTIVE 11/05 - 12/97.**

### BILL OF MATERIAL

ITEM	QUANTITY	PART NO.	DESCRIPTION	QTY. REQ.	REV.
1	1	547770	CONDUIT	1	1
2	1	547770	CONDUIT	1	1
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74	1	547770	CONDUIT	1	1
75	1	547770	CONDUIT	1	1

**36 WASHER NUT S.S. AS SHOWN WITH E88852**  
**SPACERS TO BE USED ONLY IF BEACON IS TO BE MOUNTED OVER BOLT HEADS**  
**BEACON PLATE (4 - 1/8" DIA HOLES EQUALLY SPACED FOR MOUNTING BEACON)**  
**BEACON PLATE (4 - 1/8" DIA HOLES EQUALLY SPACED FOR MOUNTING BEACON)**

### ROHN

#### BIR or B1 BEACON ASSEMBLY

ITEM NO. 11-547770  
 REV. 1  
 DATE 11-547770

DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]

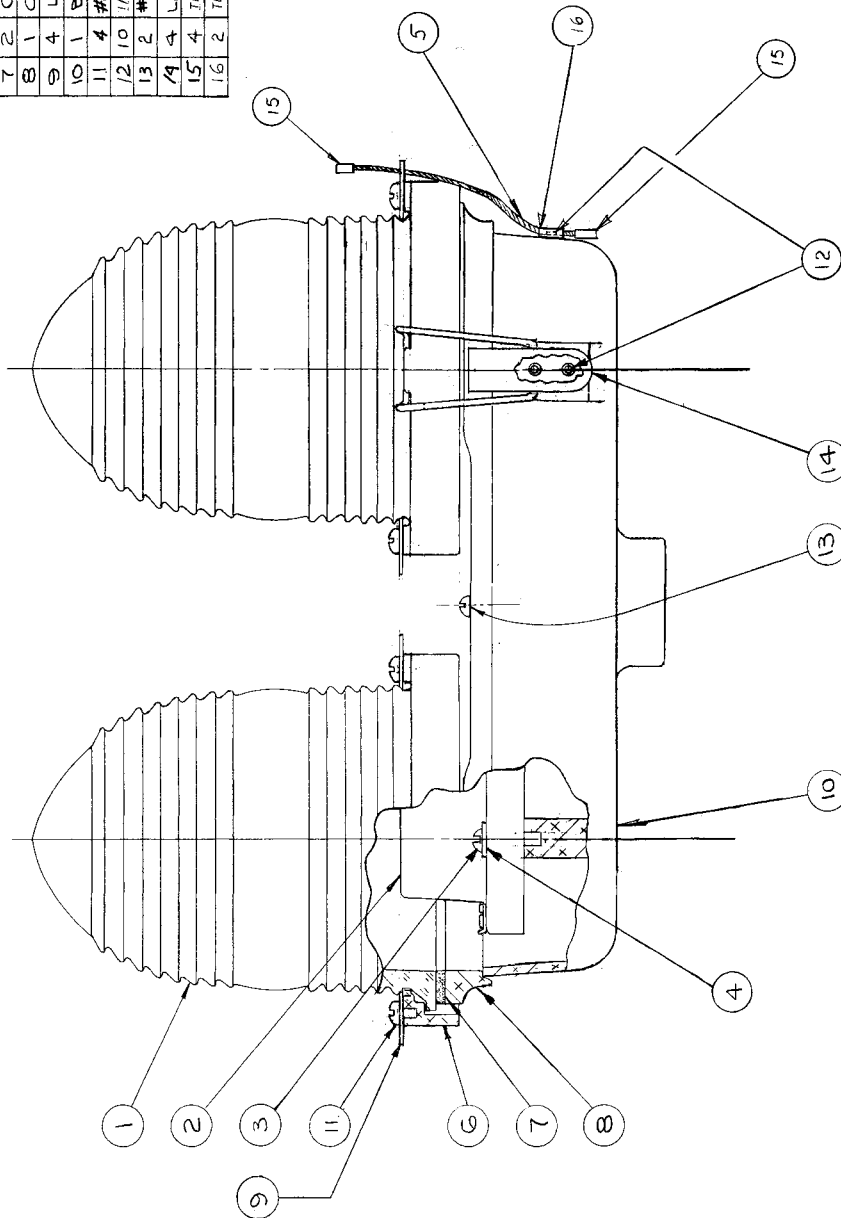
PROJECT NO. 11-547770  
 SHEET NO. 1 OF 1

D 770040 R3



ITEM NO	NO REQ	DESCRIPTION	PART NO.
1	2	LENS	330220
2	2	LAMP RECEPTACLE	30714
3	4	#8-32 X 1/2 LG PLATED MACH. SCR	220006
4	4	#10 FLAT NYLON WASHER	250002
5	2	LENS RETAINING CABLE	KR2112
6	2	LENS RETAINER RINGS (888/0363)	08R
7	2	GASKET	08G1
8	1	COVER (XC621306)	08C2
9	4	LENS RETAINER CLIP, ALUM	08RC
10	1	BASE (XC621306)	08B2
11	4	#8-32 X 1/4" LG ROUNDHEAD SS MACHINE SCREW	220186
12	10	1/8" DIA "POP" RIVET - STEEL RIVET & STEEL MANDREL	280010
13	2	#8-32 X 1 1/8 LG. PLATED MACH SCR	220007
14	4	LATCH ASSY	08L
15	4	TERMINAL SPLICE UNINSULATED	510144
16	2	TERMINAL FLAG UNINSULATED	510118

\* FABRICATION DRAWING - FOR SHOP USE ONLY



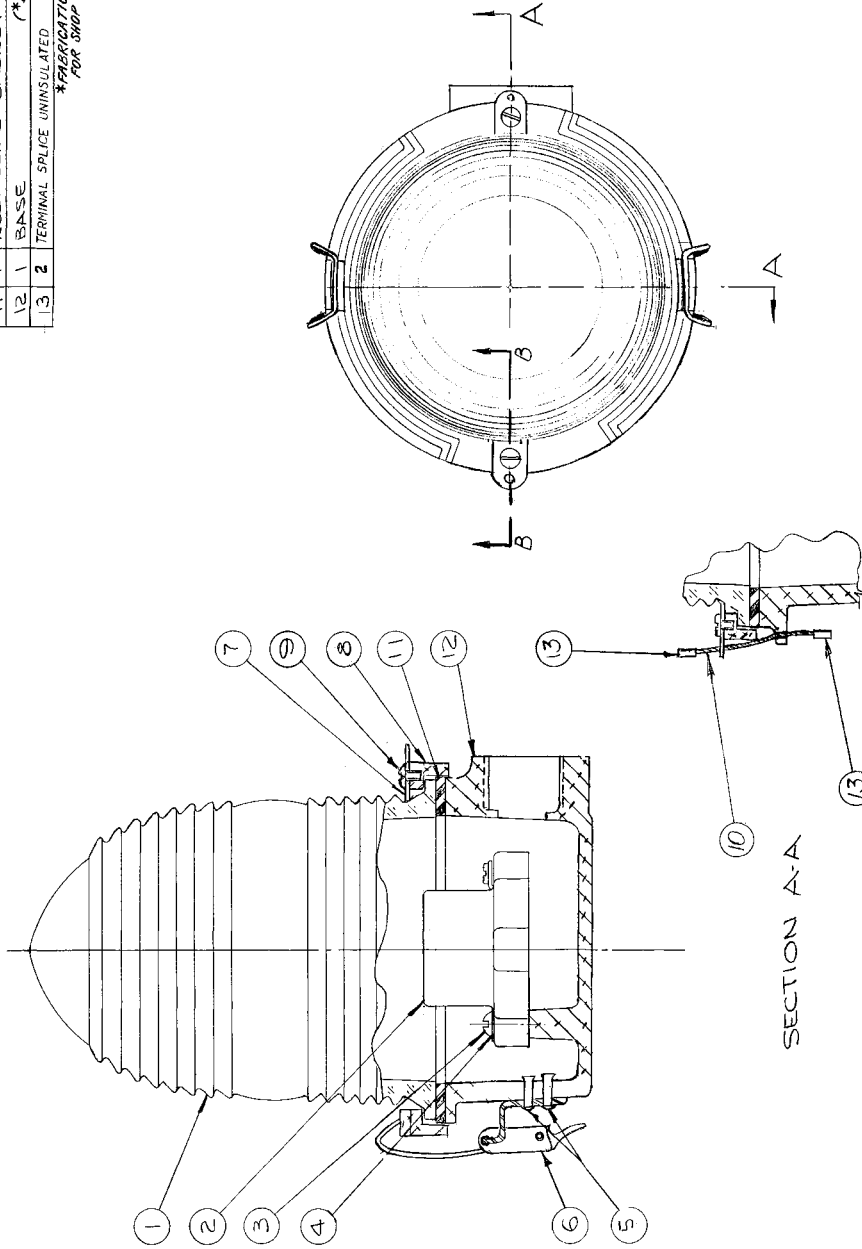
DRAWN KEITH	TITLE
CHECKED	DOUBLE OBSTRUCTION LIGHT ASSEMBLY
APPROVED	OB2
DATE 1-31-63	DRAWING NO. C62130615
SCALE NONE	ROHN®

REV. CABLE P/W'S	4-3-63
REMOVED 220019 F 520017	4-24-63
REPRAB (220186) WAS 220180, 220007 WAS 220015	3-2-63
REMOVED P/W 08RC WAS 08C	4-1-63
REVISOR LATCH & SCREWS	
REVISIONS	



ITEM NO	QTY	DESCRIPTION	PART NO.
1	1	LENS	530230
2	1	LAMP RECEPTACLE	50714
3	2	#8-32 X 3/4 LG. BUSHING, STAINLESS	220006
4	2	#10 FLAT NYLON WASHER	250002
5	4	1/8" DIA. POP RIVETS	280010
6	2	LATCH ASSY	OBL
7	2	LENS RETAINER CLIP, ALUM.	OBR
8	1	LENS RETAINER RING (*2801063)	OBR
9	2	#8-32 X 1/4 LG. ROUND HEAD SS MACHINE SCREW	220186
10	1	LENS RETAINING CABLE	M4516
11	1	NEOPRENE GASKET	O1661
12	1	BASE (*2801062)	OBS1
13	2	TERMINAL SPLICE UNINSULATED	510144

\*FABRICATION DWG.  
FOR SHOP USE ONLY



DRAWN	KEITH	TITLE	OBL
CHECKED	J.M.	OBSTRUCTION	LIGHT ASSEMBLY
APPROVED		DRAWING NO.	C62070M
DATE	G-29-62	SCALE	NONE
BY	ROHN		

REV	DATE	DESCRIPTION
1	1-30-97	REVISION: CABLE PINS & 280010 WAS 5
2	4-26-93	REVISION: WAS 220149, 250002 WAS 4
3	4-1-90	REVISION: CHANGED OBT LATCH BASE
4		REVISION: GENERAL REVISIONS



## GENERAL INFORMATION



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY





# FOUNDATION INFORMATION



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY







**FOUNDATION AND ANCHOR TOLERANCES**

**ALL FOUNDATIONS**

1. CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25 mm).
2. DEPTH OF FOUNDATION - PLUS 3" (76 mm) OR MINUS 0".
3. DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
4. REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
5. PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3 mm).
6. VERTICAL EMBEDMENTS OUT OF PLUMB - 1/2 DEGREE.

**ANCHOR BOLTS**

7. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51 mm).
8. ANCHOR BOLT SPACING - 1/16" (2 mm).
9. ANCHOR BOLT CIRCLE ORIENTATION - 1/4 DEGREE.
10. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2 mm).

**SELF-SUPPORTING TOWERS**

11. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2 mm) OR 1/16" (2 mm) PER 20 FT (6 m) OF FACE SPREAD.
12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13 mm).

**GUYED TOWERS**

13. GUY RADIUS - PLUS OR MINUS 5 PERCENT OF DISTANCE SPECIFIED.
14. ANCHOR ELEVATION - PLUS OR MINUS 5 PERCENT OF GUY RADIUS.
15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) - 0.1 DEGREES.
16. ANCHOR ROD SLOPE - PLUS OR MINUS 1.0 DEGREE.
17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS PLUS OR MINUS 1.0 DEGREE.
18. ANCHOR HEAD OUT OF PLUMB - 1.0 DEGREE.
19. GUY INITIAL TENSION - PLUS OR MINUS 10 PERCENT OF TENSION SPECIFIED.

NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY.

**WARNING !!!**

AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.

R6		REVISED AND REDRAWN	12/23/96	JLR	uDee	XK
No.▲	Revision Description		▲ Date	▲ Rev By	▲ Ckd By	▲ Appd By
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.				<b>R O H N</b>		
Scale: NONE	By	Date	Title:			
Drawn:	CSR	6/19/87	<b>FOUNDATION AND ANCHOR TOLERANCES</b>			
Checked:	KTL	9/25/87				
App. Eng.:	XK	9/25/87				
App. Sales:	AE	2/12/88				
			DRAWING NO.: <b>A810214R6</b>			

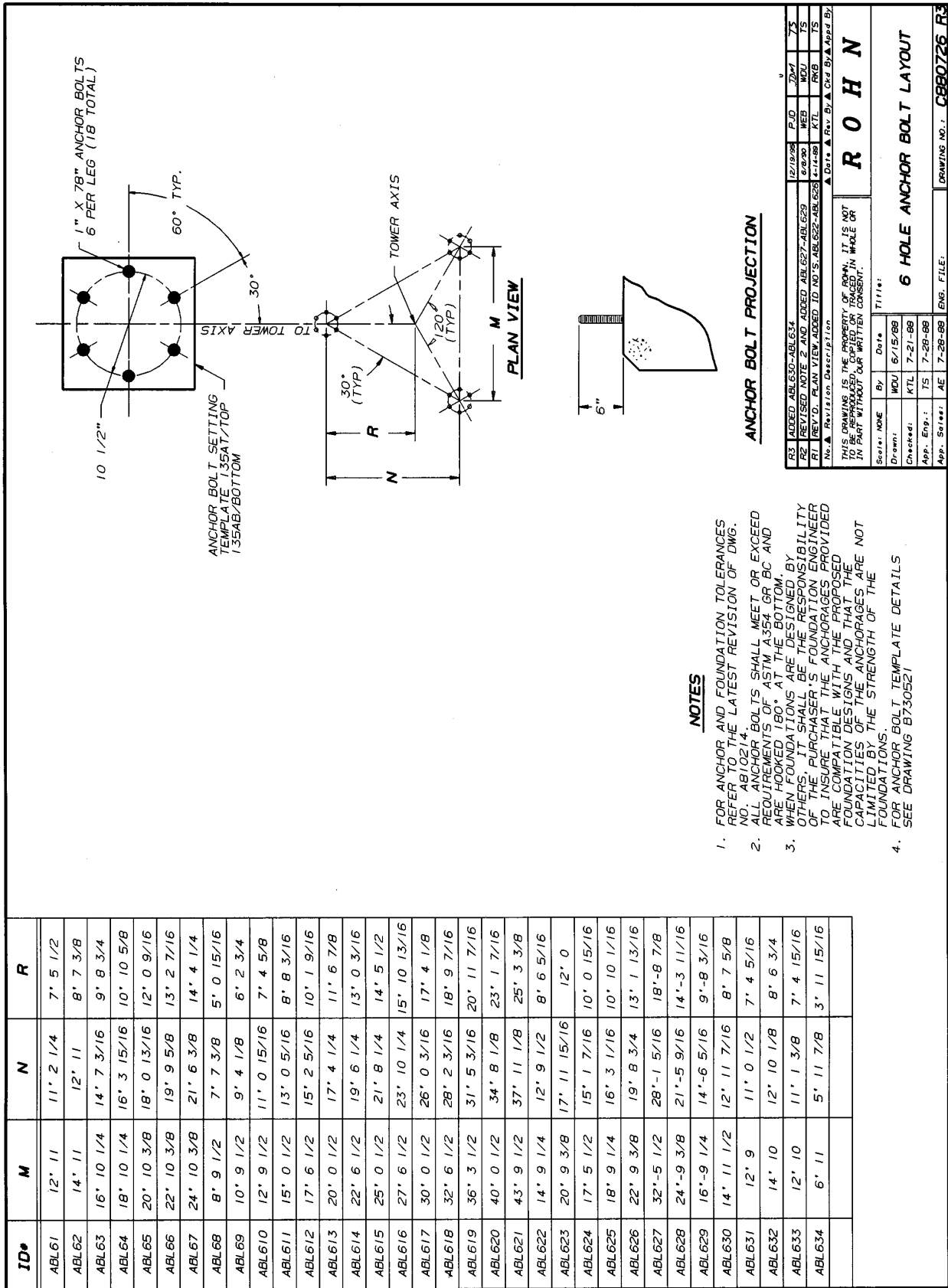


STANDARD FOUNDATION NOTES

- FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/EIA-222-E, "STRUCTURAL SECTIONS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 5.1.1.1. SOIL PARAMETERS SHALL BE AS DETERMINED BY THE PURCHASER. SOIL SHALL BE IN A CONDITION SUCH THAT IT WILL BE CAPABLE OF WITHSTANDING A COMBINED VERTICAL AND HORIZONTAL PRESSURE OF 4000 PSF (192 kPa) AND AN ALLOWABLE NET HORIZONTAL PRESSURE OF 400 PSF PER LINEAL FOOT OF DEPTH (62.8 kPa PER LINEAL METER OF DEPTH) TO A MAXIMUM OF 4000 PSF (192 kPa).
- THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED E. I. A. "NORMAL" SOIL PARAMETERS AND THAT THE DEPTH OF STANDARD FOUNDATIONS ARE ADEQUATE BASED ON THE FROST PENETRATION AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE SITE. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT "NORMAL" SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
- FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER OR HIS REPRESENTATIVE TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION AND FIELD DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, REQUIREMENTS FOR REINFORCED CONCRETE. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- ANCHOR BOLTS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A354, GRADE BC AND SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH).
- PAL NUTS OR ANCO NUTS SHALL BE INSTALLED ON ALL ANCHOR BOLTS.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF LOCAL CHARACTER SHALL BE MET AND SHALL BE BASED ON THE CONDITIONS EXPECTED AT THE SITE. ALSO, A MINIMUM COMPACTED UNIT WEIGHT OF 160 POUNDS PER CUBIC FOOT (20.7 kN/m<sup>3</sup>) IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCING CAGES SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60 UNLESS OTHERWISE NOTED.
- REINFORCING CAGES SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60 UNLESS OTHERWISE NOTED.
- REINFORCING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) MINIMUM COVER ON REINFORCEMENT.
- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 mm) MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (16 kN/m<sup>3</sup>).
- FOUNDATION DESIGNS ASSUME LEVEL GRADE AT TOWER SITE.

- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING AB10214.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO LOOSE CUTTINGS. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE. PIERERS SHALL BE USED IN OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT CASTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CONCRETE FALL THROUGH WATER.
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OF PIERS AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE AT LEAST 12 INCHES (305MM) BELOW BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY FORMED. CONSTRUCTION JOINTS, UNDER NO CIRCUMSTANCES SHALL ASSUME NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO EQUAL WITH FLOATED FINISH AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm X 19 mm) MINIMUM.
- FOR ANCHOR BLOCK TYPE FOUNDATIONS, THE PORTION OF ALL STEEL ANCHORS FROM TOP OF ANCHOR BLOCK TO GROUND LEVEL, SHALL BE COATED WITH BITUMEN. DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURES MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

R10	REVISED NOTE #9 & #24	11/23/94	CSR	JK	JK
R9	REVISED NOTES 27 & 9	1-18-94	RKB	WOU	XK
No. Revision Description					
▲ Date ▲ Rev. By ▲ Crd. By ▲ Appd. By					
Scale: NONE			Title:		
Drawn:	By	Date	ROHN		
Checked:	CSR	6/17/87	FOUNDATION MATERIAL SPECIFICATIONS,		
App. Eng.:	HA	1/6/88	INSTALLATION NOTES AND TOLERANCES		
App. Sales:	XK	1/6/88	DRAWING NO.: BB41300R10		



**ANCHOR BOLT PROJECTION**

**NOTES**

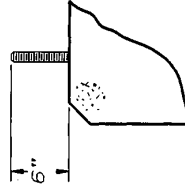
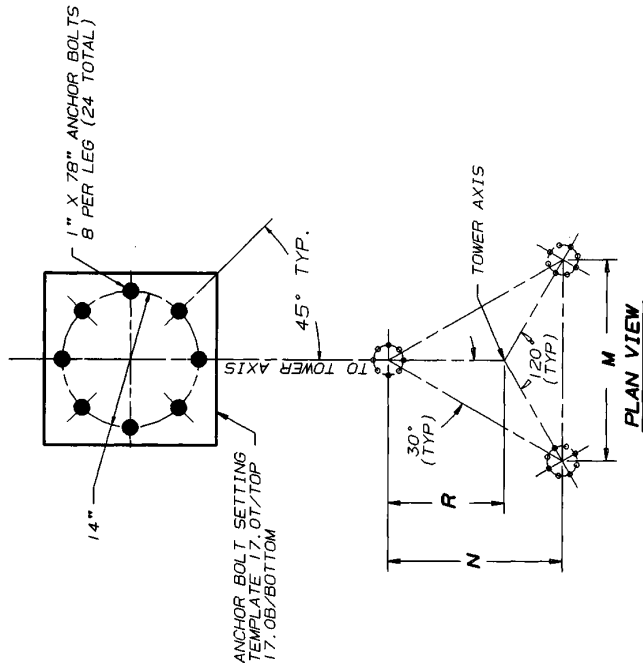
1. FOR ANCHOR AND FOUNDATION TOLERANCES REFER TO THE LATEST REVISION OF DWG. NO. AB10214.
2. ALL ANCHOR BOLTS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM. WHEN FOUNDATIONS ARE DESIGNED BY OTHERS, IT SHALL BE THE RESPONSIBILITY OF THE PURCHASER'S FOUNDATION ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.
3. FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521

R3	ADDED ABL630-ABL634	12/19/94	PJD	JDM	TS
R2	REVISED NOTE 2 AND ADDED ABL627-ABL629	6/8/90	WEB	WJU	TS
R1	REVISED PLAN VIEW ADDED TO NO. 5, ABL622-ABL626	4-14-89	KTL	RWB	TS
No. <b>▲</b> Revision Description <b>▲</b> Date <b>▲</b> Rev. By <b>▲</b> Crd. By <b>▲</b> App. By					
<b>R O H N</b>					
Scale:	None	By:	Date:	Title:	
Drawn:	WJU	6/15/89	6 HOLE ANCHOR BOLT LAYOUT		
Checked:	KTL	7-21-89	DRAWING NO.: <b>C880226 R3</b>		
App. Eng.:	TS	7-26-89	ENG. FILE:		
App. Scales:	AE	7-26-89			

ID#	M	N	R
ABL61	12' 11"	11' 2 1/4"	7' 5 1/2"
ABL62	14' 11"	12' 11"	8' 7 3/8"
ABL63	16' 10 1/4"	14' 7 3/16"	9' 8 3/4"
ABL64	18' 10 1/4"	16' 3 15/16"	10' 10 5/8"
ABL65	20' 10 3/8"	18' 0 13/16"	12' 0 9/16"
ABL66	22' 10 3/8"	19' 9 5/8"	13' 2 7/16"
ABL67	24' 10 3/8"	21' 6 3/8"	14' 4 1/4"
ABL68	8' 9 1/2"	7' 7 3/8"	5' 0 15/16"
ABL69	10' 9 1/2"	9' 4 1/8"	6' 2 3/4"
ABL610	12' 9 1/2"	11' 0 15/16"	7' 4 5/8"
ABL611	15' 0 1/2"	13' 0 5/16"	8' 8 3/16"
ABL612	17' 6 1/2"	15' 2 5/16"	10' 1 9/16"
ABL613	20' 0 1/2"	17' 4 1/4"	11' 6 7/8"
ABL614	22' 6 1/2"	19' 6 1/4"	13' 0 3/16"
ABL615	25' 0 1/2"	21' 8 1/4"	14' 5 1/2"
ABL616	27' 6 1/2"	23' 10 1/4"	15' 10 13/16"
ABL617	30' 0 1/2"	26' 0 3/16"	17' 4 1/8"
ABL618	32' 6 1/2"	28' 2 3/16"	18' 9 7/16"
ABL619	36' 3 1/2"	31' 5 3/16"	20' 11 7/16"
ABL620	40' 0 1/2"	34' 8 1/8"	23' 1 7/16"
ABL621	43' 9 1/2"	37' 11 1/8"	25' 3 3/8"
ABL622	14' 9 1/4"	12' 9 1/2"	8' 6 5/16"
ABL623	20' 9 3/8"	17' 11 15/16"	12' 0"
ABL624	17' 5 1/2"	15' 1 7/16"	10' 0 15/16"
ABL625	18' 9 1/4"	16' 3 1/16"	10' 10 1/16"
ABL626	22' 9 3/8"	19' 8 3/4"	13' 1 13/16"
ABL627	32'-5 1/2"	28'-1 5/16"	18'-8 7/8"
ABL628	24'-9 3/8"	21'-5 9/16"	14'-3 11/16"
ABL629	16'-9 1/4"	14'-6 5/16"	9'-8 3/16"
ABL630	14' 11 1/2"	12' 11 7/16"	8' 7 5/8"
ABL631	12' 9"	11' 0 1/2"	7' 4 5/16"
ABL632	14' 10"	12' 10 1/8"	8' 6 3/4"
ABL633	12' 10"	11' 1 3/8"	7' 4 15/16"
ABL634	6' 11"	5' 11 7/8"	3' 11 15/16"



ID#	M	N	R
ABL81	18' 11 7/8	16' 5 3/8	10' 11 9/16
ABL82	21' 0	18' 2 1/4	12' 1 1/2
ABL83	23' 0	19' 11	13' 3 3/8
ABL84	25' 0	21' 7 13/16	14' 5 3/16
ABL85	8' 11 1/8	7' 8 3/4	5' 1 7/8
ABL86	10' 11 1/8	9' 5 9/16	6' 3 11/16
ABL87	12' 11 1/8	11' 2 5/16	7' 5 9/16
ABL88	15' 2 1/8	13' 1 3/4	8' 9 1/8
ABL89	17' 8 1/8	15' 3 11/16	10' 2 1/2
ABL90	20' 2 1/8	17' 5 11/16	11' 7 13/16
ABL91	22' 8 1/8	19' 7 11/16	13' 1 1/8
ABL92	25' 2 1/8	21' 9 5/8	14' 6 7/16
ABL93	27' 8 1/8	23' 11 5/8	15' 11 3/4
ABL94	30' 2 1/8	26' 1 5/8	17' 5 1/16
ABL95	32' 8 1/8	28' 3 9/16	18' 10 3/8
ABL96	36' 5 1/8	31' 6 9/16	21' 0 3/8
ABL97	40' 2 1/8	34' 9 9/16	23' 2 3/8
ABL98	43' 11 1/8	38' 0 1/2	25' 4 5/16
ABL99	47' 8 1/8	41' 3 1/2	27' 6 5/16
ABL820	51' 5 1/8	44' 6 7/16	29' 8 5/16
ABL821	55' 2 1/8	47' 9 7/16	31' 10 5/16
ABL822	25' 0 1/2	21' 8 1/4	14' 5 1/2
ABL823	24' 10 3/8	21' 6 3/8	14' 4 1/4
ABL824	27' 6 1/2	23' 10 1/4	15' 10 13/16
ABL825	32' 6 1/2	28' 2 3/16	18' 9 7/16
ABL826	36' 3 1/2	31' 5 3/16	20' 11 7/16
ABL827	30' 0 1/2	26' 0 3/16	17' 4 1/8
ABL828	22' 6 1/2	19' 6 1/4	13' 0 3/16
ABL829	20' 0 1/2	17' 4 1/4	11' 6 7/8
ABL830	17' 6 1/2	15' 2 5/16	10' 1 1/2
ABL831	18' 10 1/4	16' 3 15/16	10' 10 5/8
ABL832	22' 10 3/8	19' 9 5/8	13' 2 7/16
ABL833	16' 10 1/4	14' 7 3/16	9' 8 3/4
ABL834	20' 10 3/8	18' 0 13/16	12' 0 1/2
ABL835	40' 0 1/2	34' 8 1/8	23' 1 3/8
ABL836	16' 11 7/8	14' 8 9/16	9' 9 11/16



**ANCHOR BOLT PROJECTION**

RS	ADDED ABL831-ABL836	12/18/88	PJD	2244	TS
RE	REVISED NOTE 2 & ADDED ABL826-ABL830	8/2/90	WEB	WJU	TS
RT	REV'D. PLAN VIEW, ADDED ID NO'S, ABL822-ABL825	4-14-89	KTL	RKB	TS
No. ▲ Revision Description ▲ Date ▲ Rev. By ▲ Ckd. By ▲ App'd. By					
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Scale:	None	By	Date	Title:	
Drawn:	WJU	6/15/88	8 HOLE ANCHOR BOLT LAYOUT		
Checked:	KTL	7-21-88	DRAWING NO.: C880727 R3		
App. Eng.:	TS	7-28-88	ENGR. FILE:		
App. Supt.:	AE	7-28-88			

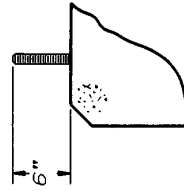
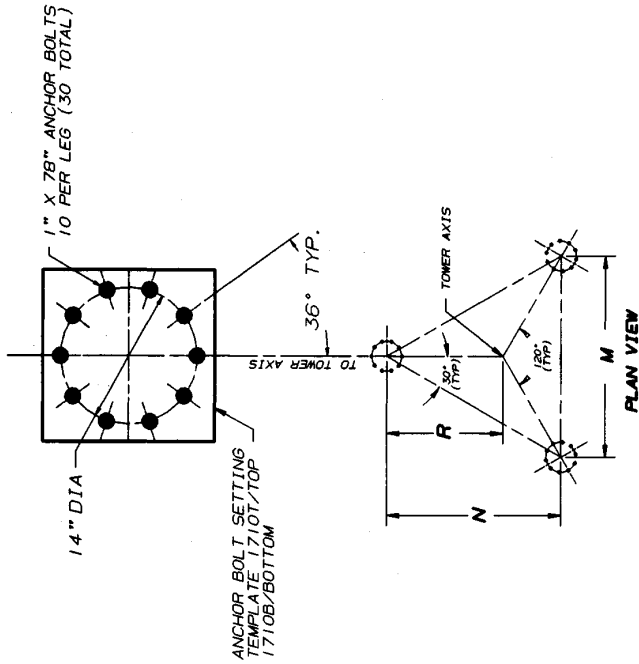
**R O H N**

**NOTES**

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2. ALL ANCHOR BOLTS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM.
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4. FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521.



ID#	M	N	R
ABL101	18' 11 7/8	16' 5 3/8	10' 11 9/16
ABL102	21' 0	18' 2 1/4	12' 1 1/2
ABL103	23' 0	19' 11	13' 3 3/8
ABL104	25' 0	21' 7 13/16	14' 5 3/16
ABL105	8' 11 1/8	7' 8 3/4	5' 1 7/8
ABL106	10' 11 1/8	9' 5 9/16	6' 3 11/16
ABL107	12' 11 1/8	11' 2 5/16	7' 5 9/16
ABL108	15' 2 1/8	13' 1 3/4	8' 9 1/8
ABL109	17' 8 1/8	15' 3 11/16	10' 2 1/2
ABL1010	20' 2 1/8	17' 5 11/16	11' 7 13/16
ABL1011	22' 8 1/8	19' 7 11/16	13' 1 1/8
ABL1012	25' 2 1/8	21' 9 5/8	14' 6 7/16
ABL1013	27' 8 1/8	23' 11 5/8	15' 11 3/4
ABL1014	30' 2 1/8	26' 1 5/8	17' 5 1/16
ABL1015	32' 8 1/8	28' 3 9/16	18' 10 3/8
ABL1016	36' 5 1/8	31' 6 9/16	21' 0 3/8
ABL1017	40' 2 1/8	34' 9 9/16	23' 2 3/8
ABL1018	43' 11 1/8	38' 0 1/2	25' 4 5/16
ABL1019	47' 8 1/8	41' 3 1/2	27' 6 5/16
ABL1020	51' 5 1/8	44' 6 7/16	29' 8 5/16
ABL1021	55' 2 1/8	47' 9 7/16	31' 10 5/16
ABL1022	18' 10 1/4	16' 3 15/16	10' 10 5/8
ABL1023	22' 10 3/8	19' 9 5/8	13' 2 7/16
ABL1024	16' 10 1/4	14' 7 3/16	9' 8 3/4
ABL1025	20' 10 3/8	18' 0 13/16	12' 0 1/2
ABL1026	40' 0 1/2	34' 8 1/8	23' 1 3/8
ABL1027	16' 11 7/8	14' 8 9/16	9' 9 11/16



ANCHOR BOLT PROJECTION

**NOTES**

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- FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521.

R3	ADDED	ABL1022-ABL1027	12/18/08	PJD	JDM	TS
R2	REVISED	PLAN VIEW	6/9/08	WEB	WOU	TS
R1	REVISED	PLAN VIEW	6-12-08	KTL	RWB	TS
No. Revision Description			Date	Rev By	Chk By	App'd By
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.						
Special Note			Title:			
Drawn:	By:	Date:	10 HOLE ANCHOR BOLT LAYOUT			
Checked:	PJB	8/9/08				
App. Eng.:	KTL	8-11-08				
App. Sales:	TS	8-12-08				
App. Sales:	AE	8-12-08	DRAWING NO.: C880790 R3			

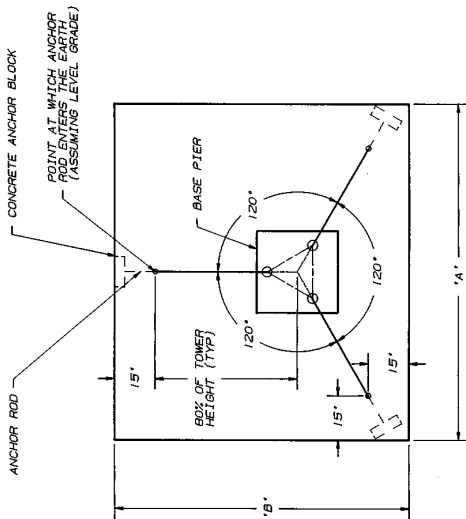






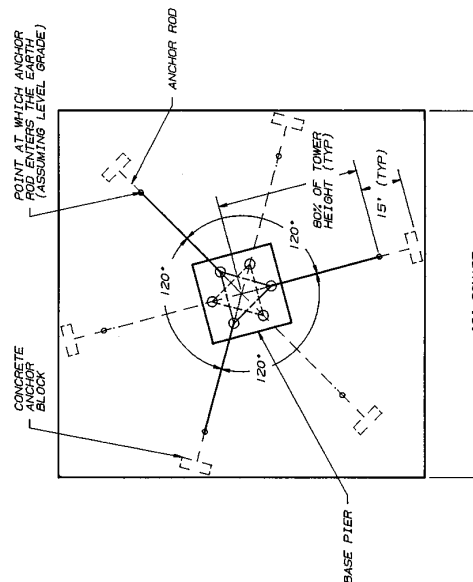
TOWER HEIGHT	LAYOUT A		LAYOUT B	
	ACRES	A	B	C
550'	12.59	795'	690'	910'
600'	14.89	865'	750'	990'
650'	17.39	935'	810'	1070'
700'	19.97	1000'	870'	1150'
750'	22.65	1070'	930'	1230'
800'	25.91	1140'	990'	1310'
850'	29.17	1210'	1050'	1390'
900'	32.62	1280'	1110'	1470'
950'	36.26	1350'	1170'	1550'
1000'	40.10	1420'	1230'	1630'
1050'	43.98	1495'	1290'	1710'
1100'	48.19	1565'	1350'	1790'
1150'	52.60	1625'	1410'	1870'
1200'	57.20	1685'	1470'	1950'

TOWER HEIGHT	LAYOUT A		LAYOUT B	
	ACRES	A	B	C
20'	0.08	60'	55'	65'
30'	0.12	75'	70'	80'
40'	0.17	90'	80'	95'
50'	0.21	100'	90'	110'
60'	0.28	115'	105'	130'
70'	0.35	130'	115'	145'
80'	0.43	145'	130'	160'
90'	0.50	155'	140'	175'
100'	0.59	170'	150'	190'
110'	0.70	185'	165'	210'
120'	0.80	200'	175'	225'
130'	0.94	215'	190'	240'
140'	1.04	225'	200'	255'
150'	1.16	240'	210'	270'
160'	1.32	255'	225'	290'
170'	1.46	270'	235'	305'
180'	1.64	285'	250'	320'
190'	1.76	295'	260'	335'
200'	1.92	310'	270'	350'
210'	2.13	325'	285'	370'
220'	2.31	340'	295'	385'
230'	2.50	350'	310'	400'
240'	2.68	365'	320'	415'
250'	2.88	380'	330'	430'
260'	3.13	395'	345'	450'
270'	3.34	410'	355'	465'
280'	3.57	420'	370'	480'
290'	3.80	435'	380'	495'
300'	4.03	450'	390'	510'
310'	4.33	465'	405'	530'
320'	4.53	475'	415'	545'
330'	4.84	490'	430'	560'
340'	5.10	505'	440'	575'
350'	5.37	520'	450'	590'
360'	5.71	535'	465'	610'
370'	5.94	545'	475'	625'
380'	6.30	560'	490'	640'
390'	6.60	575'	500'	655'
400'	6.91	590'	510'	670'
410'	7.23	600'	525'	690'
420'	7.59	615'	535'	705'
430'	7.96	630'	550'	720'
440'	8.29	645'	560'	735'
450'	8.64	660'	570'	750'
460'	9.00	670'	585'	770'
470'	9.36	685'	595'	785'
480'	9.80	700'	610'	800'
490'	10.18	715'	620'	815'
500'	10.49	725'	630'	830'



LAYOUT A

THIS IS THE MINIMUM AREA OF LAND REQUIRED. HOWEVER, THIS AREA WILL NOT ALWAYS PERMIT ORIENTING TOWER PATH DIRECTION.



LAYOUT B

THIS IS THE MINIMUM AREA OF LAND REQUIRED. HOWEVER, THIS AREA WILL NOT ALWAYS PERMIT ORIENTING TOWER PATH DIRECTION.

GENERAL NOTES

1. DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER TO VERIFY THE ACCURACY OF THE DIMENSIONS AND LOCATIONS FOR PIER AND ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. INSTALLATION COMPLETES WITH LOCAL BUILDING CODES.

R3 REVISION, ADDED 550'-1200' TOWERS, DELETED NOTES 07-13-07. GPV  
 No. Revision Description Date

UNR-Rohn

LAND AREA REQUIREMENTS FOR 80% GUYED TOWERS

Scale: Unless otherwise specified, dimensions are given in inches.

Drawn by: MEH 04-08-75  
 Checked by: CH 04-19-75  
 Approved by Engineering: GW 04-16-75  
 Approved by Production: Date  
 Approved by Sales: Date

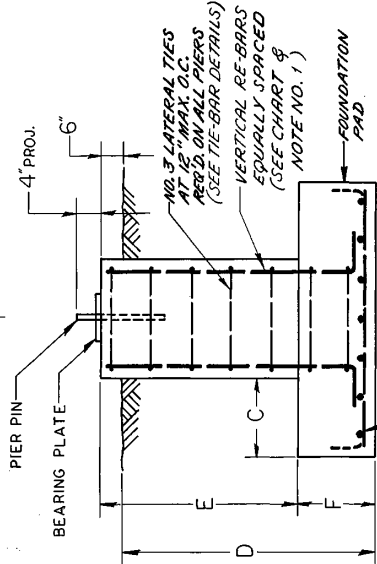
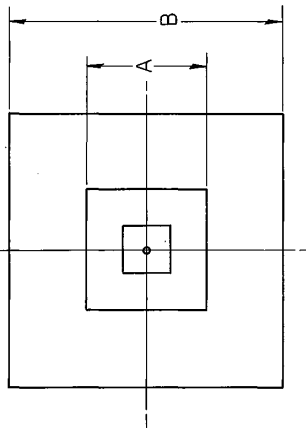
Tolerances: Material Finish Angles Weight  
 Fractions

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 File Number: Date  
 Drawing Number: R3



CONCRETE BASE SCHEDULE

CB NO.	Tower Base Reaction	DIMENSIONS						BEARING PLATE	CONC. (CU. YDS)	VERTICAL BARS (NO. & SIZE)	HORIZ. BARS (NO. & SIZE)
		A	B	C	D	E	F				
1	14000	2'-0	2'-0	0	4'-0	0	0	BP 6	4-NO. 6	NONE*	
2	22000	2'-6	2'-6	0	4'-0	0	0	BP 6	4-NO. 6	NONE*	
3	32000	3'-0	3'-0	0	4'-0	0	0	BP 6	4-NO. 6	NONE*	
4	44000	3'-6	3'-6	0	4'-0	0	0	BP 6	4-NO. 6	NONE*	
5	58000	2'-0	4'-0	1'-0"	4'-0	3'-3	1'-3	BP 6	4-NO. 6	6-NO. 4	
6	74000	2'-0	4'-6	1'-3"	4'-0	3'-3	1'-3	BP 6	4-NO. 6	6-NO. 5	
7	90000	2'-0	5'-0	1'-6	4'-6	3'-9	1'-3	BP 10	8-NO. 6	6-NO. 5	
8	109000	2'-0	5'-6	1'-9	4'-6	3'-9	1'-3	BP 10	8-NO. 6	6-NO. 5	
9	130000	2'-0	6'-0	2'-0	4'-6	3'-6	1'-6	BP 10	8-NO. 6	7-NO. 5	
10	150000	2'-0	6'-6	2'-3	4'-6	3'-6	1'-6	BP 10	8-NO. 6	8-NO. 5	
11	173000	2'-6	7'-0	2'-3	5'-0	3'-9	1'-9	BP 15	8-NO. 7	8-NO. 6	
12	198000	2'-6	7'-6	2'-6	5'-0	3'-9	1'-9	BP 15	8-NO. 7	8-NO. 6	
13	224000	2'-6	8'-0	2'-9	5'-0	3'-9	1'-9	BP 15	8-NO. 7	9-NO. 6	
14	251000	3'-0	8'-6	2'-9	5'-0	3'-6	2'-0	BP 15	12-NO. 7	9-NO. 7	
15	279000	3'-0	9'-0	3'-0	5'-0	3'-6	2'-0	BP 15	12-NO. 7	10-NO. 7	



**NOTE:** DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

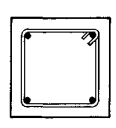
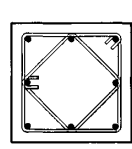
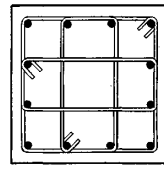
**GENERAL NOTES:**

FOR REQUIRED MATERIAL SPECIFICATION, INSTALLATION NOTES AND TOLERANCES SEE DRAWING NUMBER B841300.

1. VERTICAL REINFORCING STEEL MAY BE PLACED WITH AN OPTIONAL STANDARD ACI 90° BEND AT BOTTOM.

2. BEARING PLATE PROVIDED ONLY ON TOWERS WITH TAPERED BASE.

\*3. HORIZ. BARS IN CHART REFER ONLY TO THE BARS IN THE FOUNDATION PAD.



TIE BAR DETAILS

NO.	DESCRIPTION	DATE	BY
R2	ADDED NOTE	7-6-76	DA
R1	RE-DRAWN - SUPERSEDES C-6106210	2-26-75	DA

ROHN MANUFACTURING  
DIVISION OF

CONCRETE BASE SCHEDULE

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.

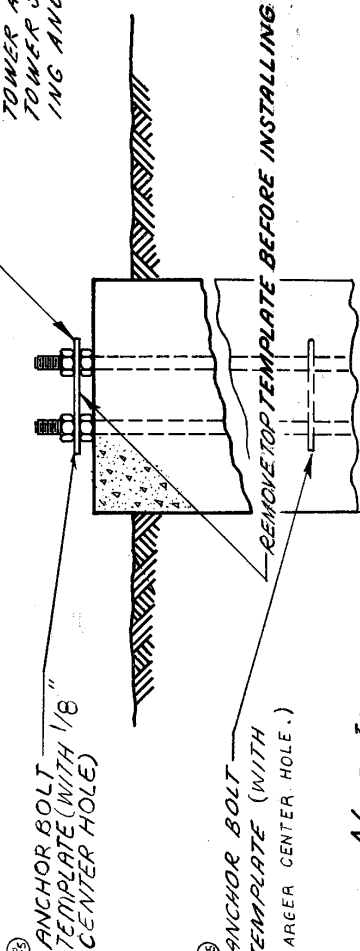
DATE	BY	DESCRIPTION
7-6-76	DA	ADDED NOTE
2-26-75	DA	RE-DRAWN - SUPERSEDES C-6106210

PRINTED IN U.S.A.



ANCHOR BOLT SETTING TEMPLATE - (SEE ANCHOR BOLT LAYOUT OF EACH TOWER SITE FOR TEMPLATE PART NO.)  
 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.



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.

REVISED AND ADDED NOTE AS MARKED	8/3/82	WZC
REVISED LEG SIZE	10/3/85	OH
CORRECTED LEG SIZE	4/20/89	CLS
ADD NOTE.	12/20/85	CLS
NO.	DESCRIPTION	DATE BY

**ROHN** MANUFACTURING  
 DIVISION OF **STEELMARK**

TITLE: **ANCHOR BOLT TEMPLATE INSTALLATION**

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

SCALE	MATERIAL	FINISH	WT.
DATE	DATE	DATE	DATE
8-9-73	8-9-73	8-9-73	8-9-73
DESIGNED BY	DATE	DATE	DATE
T.S.	8-13-73	8-13-73	8-13-73
APPROVED BY	DATE	DATE	DATE
C.W.	8-13-73	8-13-73	8-13-73
DATE	DATE	DATE	DATE
7-12-73	7-12-73	7-12-73	7-12-73

FILE NO. B 730521 R5

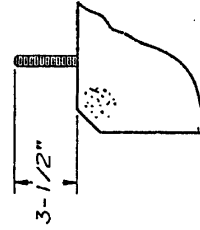
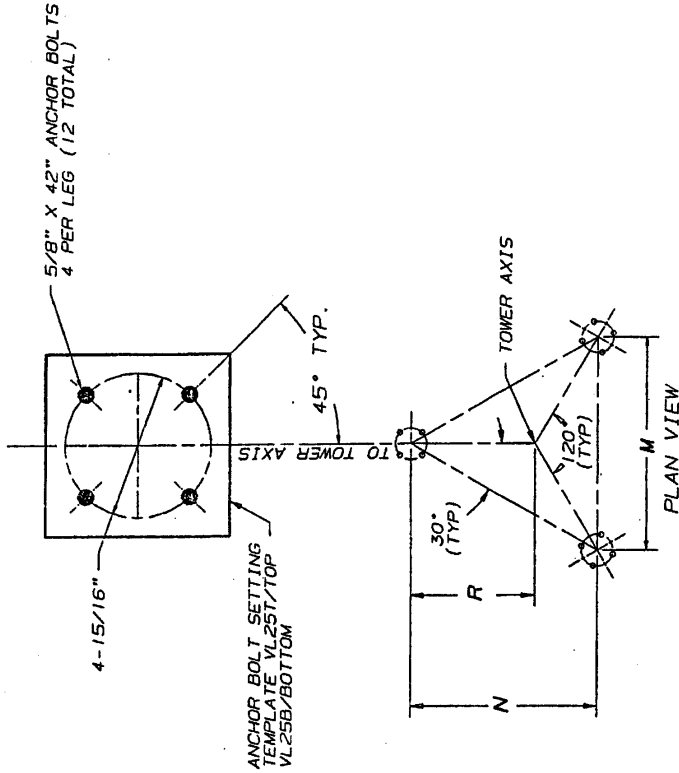
REVISED ANCHOR BOLT TEMPLATES 12-29-87 FHT/JHD

CITY BLUE PRINT 100H 2-72 48191\*

PRINTED IN U.S.A.



ID#	M	N	R
ABL4A1	4' 6-1/4	3' 11	2' 7-5/16
ABL4A2	4' 6-3/4	3' 11-7/16	2' 7-5/8
ABL4A3	6' 6-3/4	5' 8-3/16	3' 9-1/2
ABL4A4	8' 6-3/4	7' 5	4' 11-5/16
ABL4A5	10' 6-3/4	9' 1-3/4	6' 1-3/16
ABL4A6	6' 6-1/4	5' 7-3/4	3' 9-3/16
ABL4A7	8' 7-3/4	7' 5-7/8	4' 11-15/16



ANCHOR BOLT PROJECTION

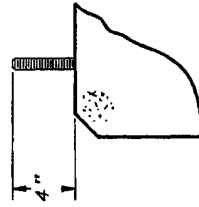
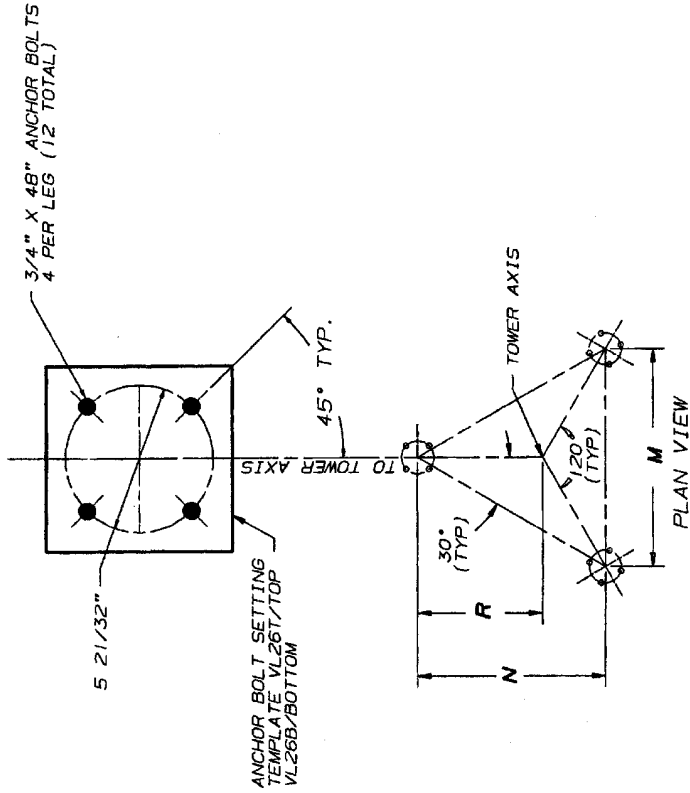
**NOTES**

- FOR ANCHOR AND FOUNDATION TOLERANCES REFER TO THE LATEST REVISION OF DWG. NO. AB10214.
- ALL ANCHOR BOLTS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM.
- WHEN FOUNDATIONS ARE DESIGNED BY OTHERS IT SHALL BE THE RESPONSIBILITY OF THE PURCHASER'S FOUNDATION ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.
- FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521.

No. $\Delta$ Revision Description		Date $\Delta$ Rev. By $\Delta$ Chd. By $\Delta$ App'd. By	
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT OUR WRITTEN CONSENT.			
Spec. No. $\Delta$	By	Date	Title:
Drewn:	PJD	12/08/95	
Checked:	JDM	1-2-76	
App. Eng.:	TS	1-4-76	
App. Supt.:	A	1/4/92	
ANCHOR BOLT LAYOUT FOR (4) 5/8" DIAMETER ANCHOR BOLTS			<b>ROHN</b>
ENG. FILE: C951721			



ID#	M	N	R
ABL4B1	4' 7 1/4	3' 11 7/8	2' 7 7/8
ABL4B2	6' 7 1/4	5' 8 5/8	3' 9 3/4
ABL4B3	8' 7 1/4	7' 5 7/16	4' 11 5/8
ABL4B4	10' 7 1/4	9' 2 3/16	6' 1 7/16
ABL4B5	12' 7 1/4	10' 11	7' 3 5/16
ABL4B6	8' 6	7' 4 5/16	4' 10 7/8
ABL4B7	5' 0 1/2	4' 4 3/8	2' 10 15/16
ABL4B8	8' 8 1/4	7' 6 5/16	5' 0 3/16



ANCHOR BOLT PROJECTION

**NOTES**

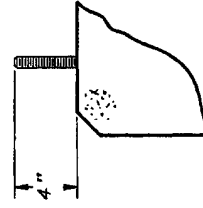
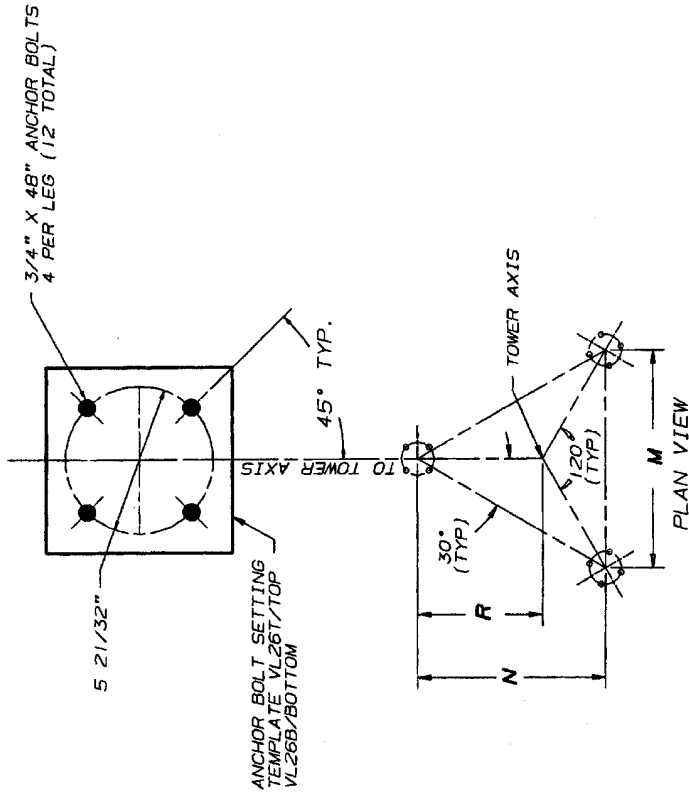
- FOR ANCHOR AND FOUNDATION TOLERANCES REFER TO THE LATEST REVISION OF DWG. NO. AB10214.
- ALL ANCHOR BOLTS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM.
- WHEN FOUNDATIONS ARE DESIGNED BY OTHERS, IT SHALL BE THE RESPONSIBILITY OF THE PURCHASER'S FOUNDATION ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.
- FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521.

No. $\blacktriangle$ Revision Description		Date $\blacktriangle$ Rev. By $\blacktriangle$ Ckd By $\blacktriangle$ App'd By	
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.			
Scale: NONE	By	Date	Title:
Drawn: JMD	12/15/95		<b>ROHN</b>
Checked: JMD	1-2-96		ANCHOR BOLT LAYOUT
App. Eng.: JMD	1-4-96		FOR (4) 3/4" DIAMETER ANCHOR BOLTS
App. Supt.: JMD	1/8/96		ENG. FILE: C951722





ID#	M	N	R
ABL4B1	4' 7 1/4	3' 11 7/8	2' 7 7/8
ABL4B2	6' 7 1/4	5' 8 5/8	3' 9 3/4
ABL4B3	8' 7 1/4	7' 5 7/16	4' 11 5/8
ABL4B4	10' 7 1/4	9' 2 3/16	6' 1 7/16
ABL4B5	12' 7 1/4	10' 11	7' 3 5/16
ABL4B6	8' 6	7' 4 5/16	4' 10 7/8
ABL4B7	5' 0 1/2	4' 4 3/8	2' 10 15/16
ABL4B8	8' 8 1/4	7' 6 5/16	5' 0 3/16



ANCHOR BOLT PROJECTION

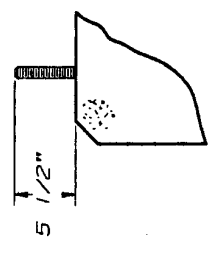
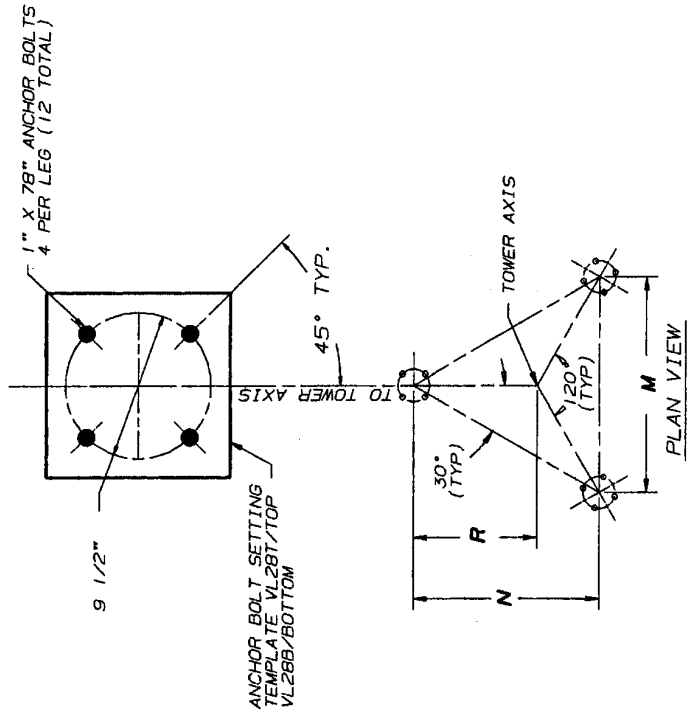
**NOTES**

- FOR ANCHOR AND FOUNDATION TOLERANCES REFER TO THE LATEST REVISION OF DWS. NO. AB10214.
- ALL ANCHOR BOLTS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM.
- WHEN FOUNDATIONS ARE DESIGNED BY OTHERS IT SHALL BE THE RESPONSIBILITY OF THE PURCHASER'S FOUNDATION ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.
- FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521.

No. ▲ Revision Description		▲ Date ▲ Rev By ▲ Chg By ▲ App'd By	
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.			
Scale: NONE	By: PJD	Date: 12/15/95	<b>R O H N</b>
Drawn:	Checked: JDM	1-2-96	
App. Eng. I: TJ	1-4-96		
App. Sealer: J	1/4/96		
Title: ANCHOR BOLT LAYOUT FOR (4) 3/4" DIAMETER ANCHOR BOLTS			
ENG. FILE: C951722			



ID#	M	N	R
ABL4D1	6' 9	5' 10 1/8	3' 10 3/4
ABL4D2	8' 9	7' 6 15/16	5' 0 5/8
ABL4D3	10' 9	9' 3 11/16	6' 2 1/2
ABL4D4	12' 9	11' 0 1/2	7' 4 5/16
ABL4D5	14' 9 1/4	12' 9 1/2	8' 6 5/16
ABL4D6	16' 9 1/4	14' 6 5/16	9' 8 3/16
ABL4D7	18' 9 1/4	16' 3 1/16	10' 10 1/16
ABL4D8	20' 9 3/8	17' 11 15/16	12' 0
ABL4D9	22' 9 3/8	19' 8 3/4	13' 1 13/16
ABL4D10	24' 9 3/8	21' 5 9/16	14' 3 11/16
ABL4D11	8' 8 1/2	7' 6 1/2	5' 0 5/16
ABL4D12	10' 8 1/2	9' 3 5/16	6' 2 3/16
ABL4D13	12' 8 1/2	11' 0 1/16	7' 4 1/16
ABL4D14	14' 11 1/2	12' 11 7/16	8' 7 5/8
ABL4D15	17' 5 1/2	15' 1 7/16	10' 0 15/16
ABL4D16	19' 11 1/2	17' 3 7/16	11' 6 1/4
ABL4D17	22' 5 1/2	19' 5 3/8	12' 11 5/8
ABL4D18	24' 11 1/2	21' 7 3/8	14' 4 15/16
ABL4D19	27' 5 1/2	23' 9 3/8	15' 10 1/4
ABL4D20	29' 11 1/2	25' 11 5/16	17' 3 9/16
ABL4D21	8' 7 1/2	7' 5 5/8	4' 11 3/4
ABL4D22	10' 7 1/2	9' 2 7/16	6' 1 5/8
ABL4D23	12' 7 1/2	10' 11 3/16	7' 3 7/16
ABL4D24	14' 10 1/2	12' 10 9/16	8' 7 1/16
ABL4D25	12' 10	11' 1 3/8	7' 4 15/16
ABL4D26	14' 10 1/4	12' 10 3/8	8' 6 15/16

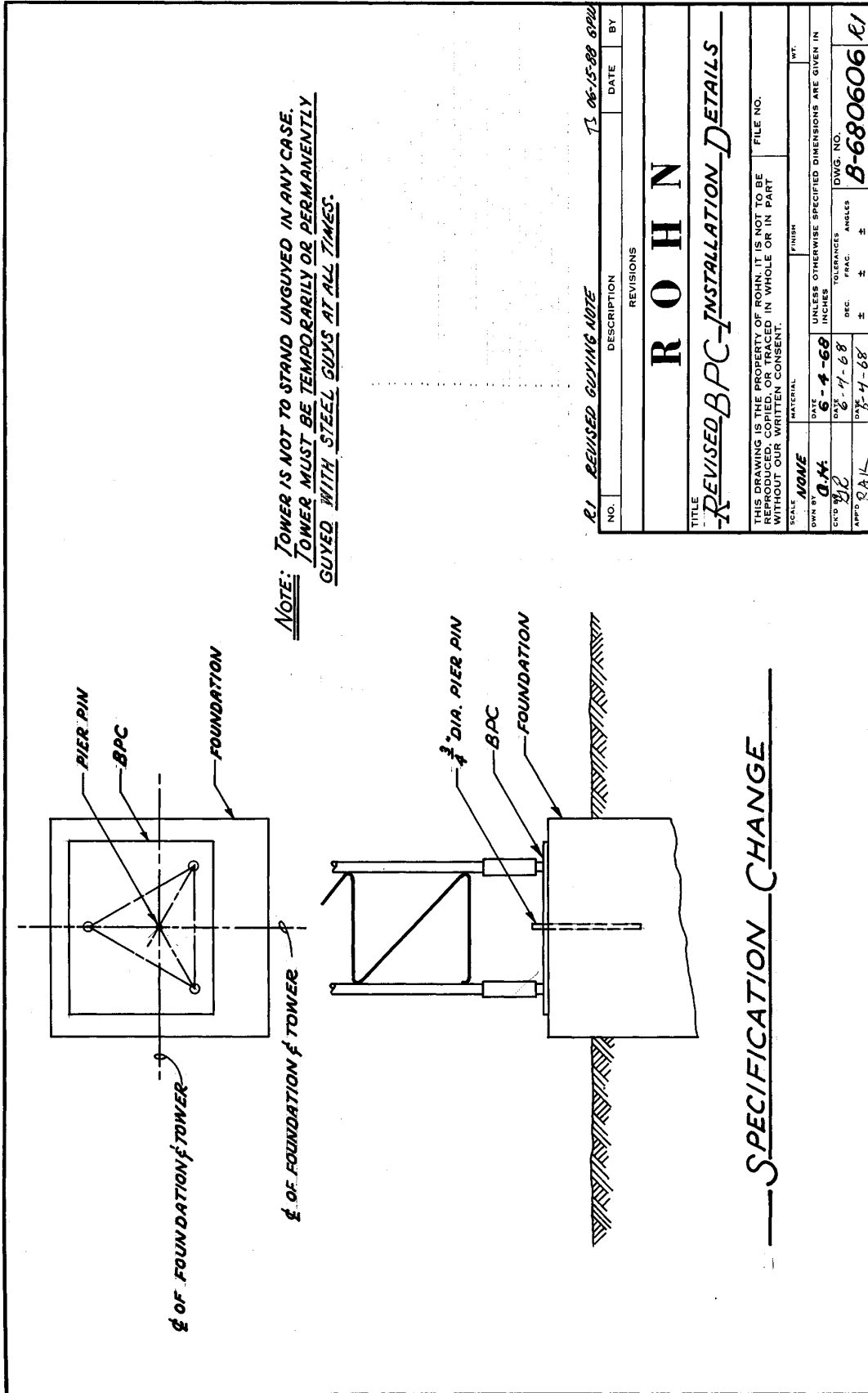


ANCHOR BOLT PROJECTION

**NOTES**

- FOR ANCHOR AND FOUNDATION TOLERANCES REFER TO THE LATEST REVISION OF DWG. NO. AB10214.
- ALL ANCHOR BOLTS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM.
- WHEN FOUNDATIONS ARE DESIGNED BY OTHERS, IT SHALL BE THE RESPONSIBILITY OF THE PURCHASER'S FOUNDATION ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.
- FOR ANCHOR BOLT TEMPLATE DETAILS SEE DRAWING B730521.

RI	REVISED	ABL4DZ (N-DIMENSION)	4-10-96	P/JD	284	7
No. Revision Description			Date	Rev By	Chd By	Appr By
THIS DRAWING IS THE PROPERTY OF BROWN. IT IS NOT TO BE REPRODUCED, COPIED OR TRANSMITTED IN ANY MANNER OR IN PART WITHOUT OUR WRITTEN CONSENT.						
Scale:	NONE	By:	Date:	Title:		
Drawn:	P/JD	12/19/96	ANCHOR BOLT LAYOUT			
Checked:	JDM	1-2-96	FOR (4) 1" DIAMETER ANCHOR BOLTS			
App. Eng.:	TS	1-4-96	R O H N			
App. Safety:	AL	1-4-96	DRAWING NO. C951724R1			



NOTE: TOWER IS NOT TO STAND UNGUYED IN ANY CASE. TOWER MUST BE TEMPORARILY OR PERMANENTLY GUYED WITH STEEL GUYS AT ALL TIMES.

NO.		DESCRIPTION		DATE	BY
R1		REVISED GUYING NOTE		11-06-15-88	SPW
REVISIONS					
<b>ROHN</b>					
<del>REVISED BPC-INSTALLATION DETAILS</del>					
TITLE					
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.					
SCALE	MATERIAL	FINISH	WT.		
NONE			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES		
OWN BY	DATE	INCHES	DWG. NO.		
Q.H.	6-4-68		B-680606		
CHK'D BY	DATE	DEC. FRAC.	ANGLES		
YJC	6-11-68		± ± ±		
APP'D BY	DATE		R1		
R.A.H.	8-4-68				

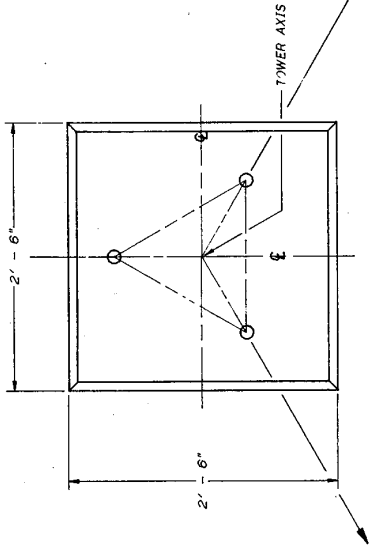
SPECIFICATION CHANGE



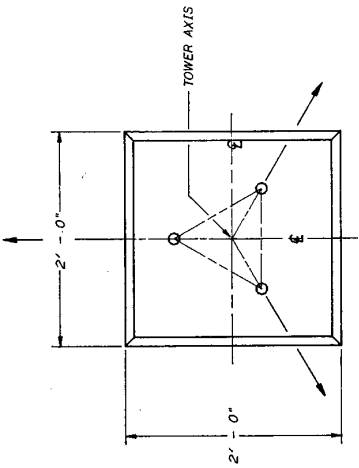
**GENERAL NOTES**

- See drawing number 8841300 for general foundation notes except as noted.

GUY WIRE (REF.) TO ANCHOR BLOCK (TYP.)  
 GUY WIRE TOWER ASSY. DRWG. FOR ANCHOR  
 BLOCK DETAILS.

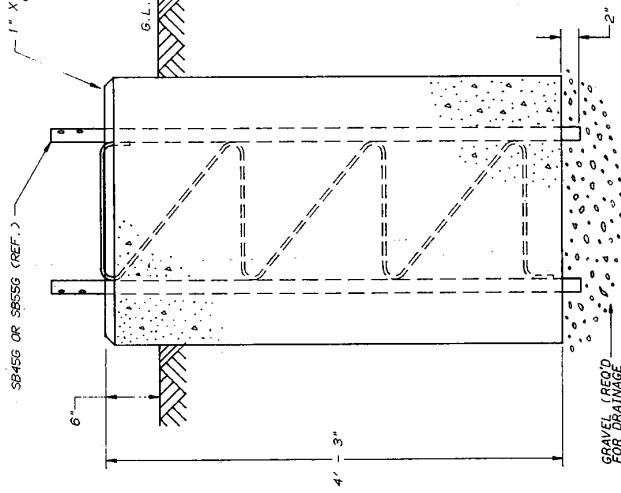


PLAN VIEW

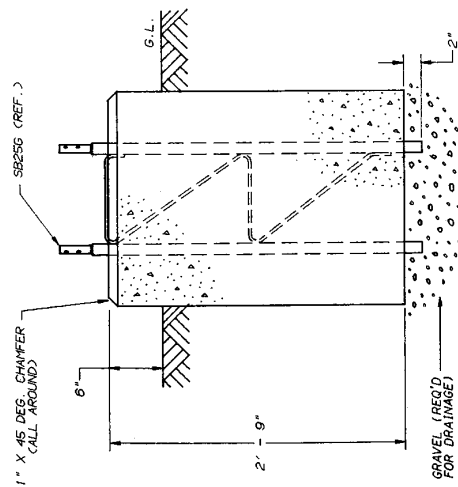


PLAN VIEW

1" X 45 DEG. CHAMFER  
 (CALL AROUND)



SHORT BASE DETAILS  
 FOR 45G AND 55G



SHORT BASE DETAILS  
 FOR 25G

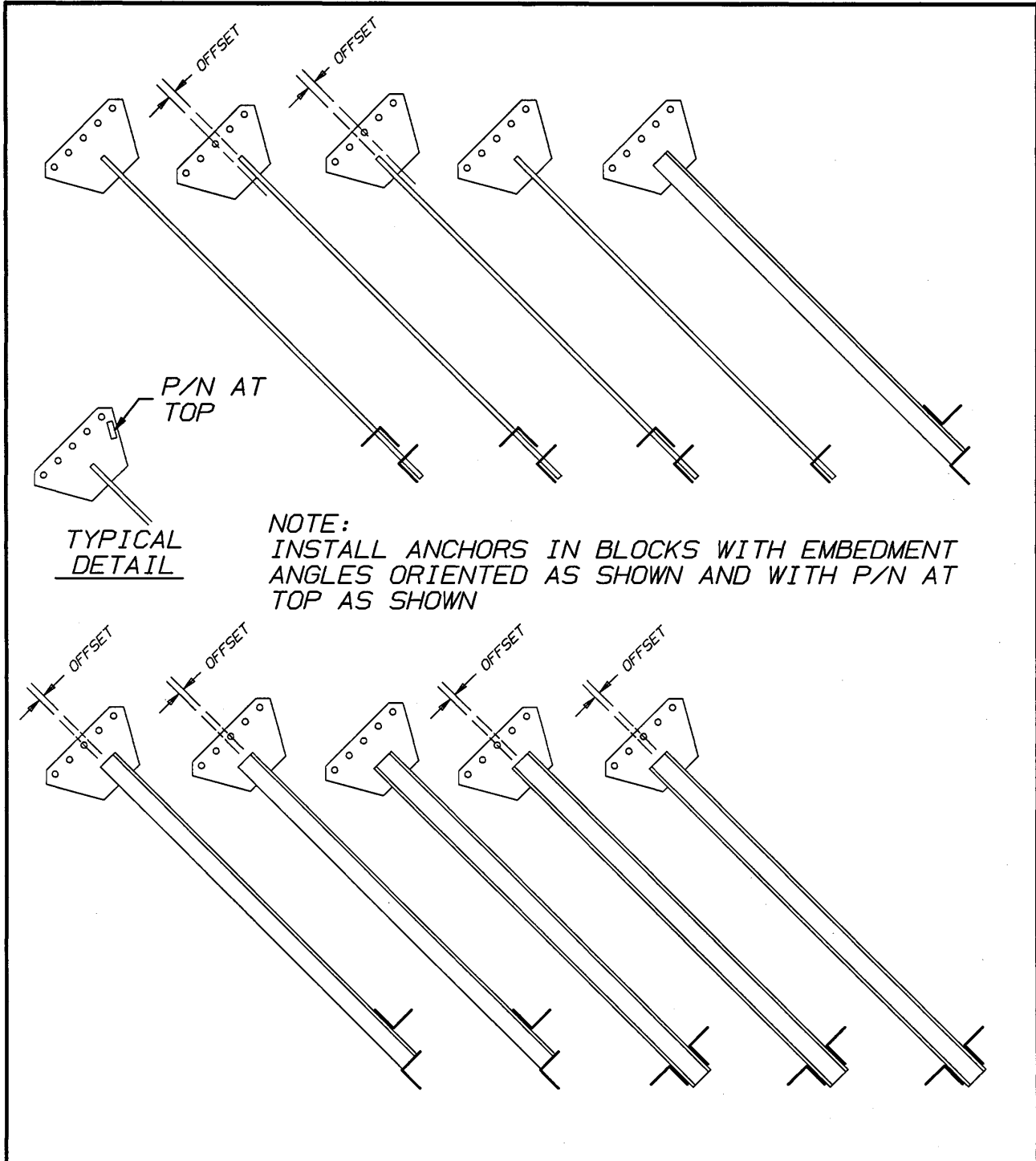
**CONCRETE QUANTITIES**

- FOR 25G BASE PIER = 0.41 CU. YDS.
- FOR 45G BASE PIER = 1.00 CU. YDS.
- FOR 55G BASE PIER = 1.00 CU. YDS.

RE	REVISED GENERAL NOTES	4/13/57	P/B
R1	REV NOTE 3 & ADD NOTE 4 AND GUY NOTE	3/28/85	WAF
No. Revision/Description		DATE	BY
<b>UNR-Rohn</b> Division of UNR, Inc.			
<b>SHORT BASE AND BASE PIER INSTALLATION DETAIL</b> (FOR 25G, 45G AND 55G)			
Scale	Unless otherwise specified, dimensions are given in inches.		
Drawn by	GPW	03-12-60	GPW
Checked by	JL	5-7-72	JL
Approved by Engineering	JL	7-29-77	JL
Approved by Production	JL		JL
File Number			
Approved by Sales			
Drawing Number	C850506 R2		



# Foundation Information



**NOTE:**  
 INSTALL ANCHORS IN BLOCKS WITH EMBEDMENT  
 ANGLES ORIENTED AS SHOWN AND WITH P/N AT  
 TOP AS SHOWN

No. ▲ Revision Description			▲ Date ▲ Rev By ▲ Ckd By ▲ Appd By		
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.			R O H N		
Scale: NONE	By	Date	Title:		
Drawn:	WMN	9/8/95	ANCHOR INSTALLATION DRAWING		
Checked:	WDR	10-13-95			
App. Eng.:	TS	10-18-95			
App. Sales:	JR	10-18-95			
ENG. FILE:			DRAWING NO.: A951409		



PART NUMBER	EQUALIZER PLATE TYPE	DIMENSIONS IN INCHES							WEIGHT-LBS.	ALLOWABLE LOAD LBS. *
		L	A	B	C	D	T			
GAR 30	EYE	84	1	2	5/8			9	7,330	
GAC 303	EE	84	2		5/8	3/16		13	7,330	
GAC 305	EE	84	2		5/8	3/16		14	7,330	
GAC 34 55 TOP	EJ	84	2	12	2 1/2	3/4	3/8	25	17,670	
GAC 56 55 TOP	EJ	120	2 1/2	12	3	1 1/4	1/2	65	49,060	
GAC 57 55 TOP	EJ	168	3	12	4	1 7/8	3/4	125	64,800	
GAC 58 55 TOP	EJ	192	4	12	6	1 1/4	1	220	98,100	
GAC 59 55 TOP	EJ	240	4	18	6	1 7/8	1	310	129,700	

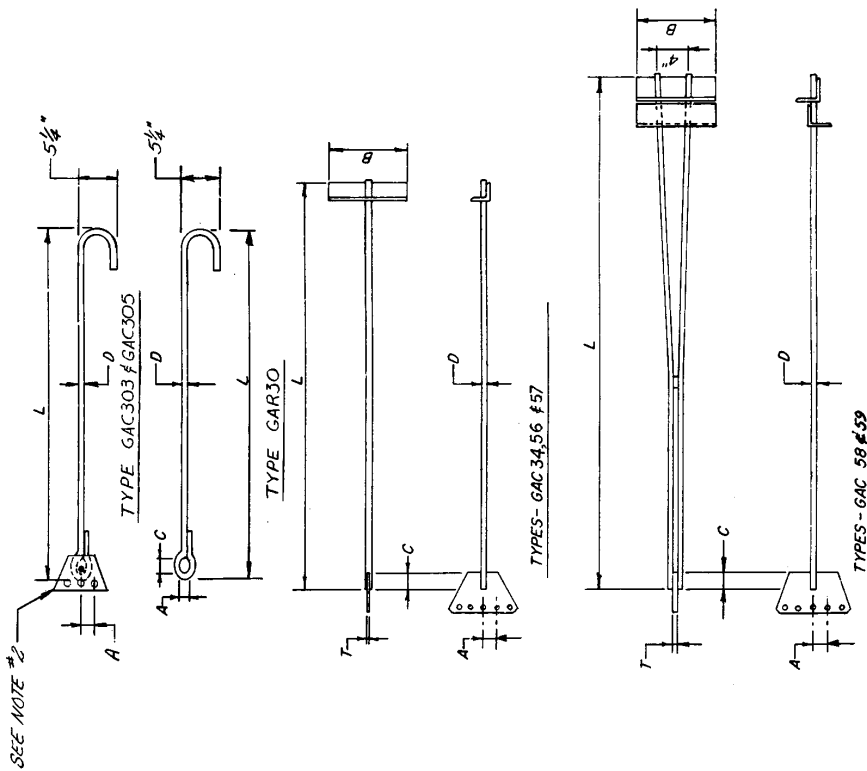
NO.	DESCRIPTION	REVISIONS	DATE	BY
N10	ADD "TOP" TO PART NO.		11-13-95	RMB
A9	REMOVED GARS, GAC55, GAC55, ANK RODS		1-17-94	RMB
A8	REV. EP FROM 3 HOLE TO 5 HOLE		7-31-91	CSK
A7	REMOVED 5/16 DIA. HOLE		2-12-91	PH
A6	DEL. A RODS & REV. CAPACITIES.		3-17-88	PH
A5	ADD PIN GAR TO GAC303 & GAC305		9-22-87	PH
A4	ALLOWABLE LOAD WAS TONN. CAPACITY IN PART		12-30-85	PH
A3	DEL. GAC 25 & GAC 25		2-26-83	PH
A2	A DIMENSION WAS 12"		9/18/79	GLS
A1	REVISED 57 ROD D. DIM. & CAPACITY		9-11-77	TS
D	DELETE 50 ROD, REVISE CAP #25 ROD		1-15-75	PH

\* INCLUDES 33 1/3% INCREASE IN ALLOWABLE STRESSES

**ROHN** MANUFACTURING

ANCHOR ROD SCHEDULE

TITLE	ANCHOR ROD SCHEDULE
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT OUR WRITTEN CONSENT.	
DATE	3-22-73
BY	DM
CHECKED	DM
APPROVED	DM
SCALE	AS SHOWN
DWG NO.	C 660415
REV.	10



ANCHOR ROD DETAILS

- 4) TYPE - EJ EQUALIZER PLATES ARE USED WITH EYE & JAW TURNBUCKLES
- 3) TYPE - EE EQUALIZER PLATES ARE SUPPLIED IN PAIRS FOR EYE & EYE TURNBUCKLES
- 2) PART NO. SUFFIXES - 1, 3, 5 & 55 DENOTES - 1, 3 OR 5 HOLES IN PLATES
- 1) TYPE GAC303 RODS ARE SUPPLIED WITH TYPE EP25343 EQUALIZER PLATES (AS IS TYPE GAC30 ROD)

100% REVISIONS







## GUYING INFORMATION



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

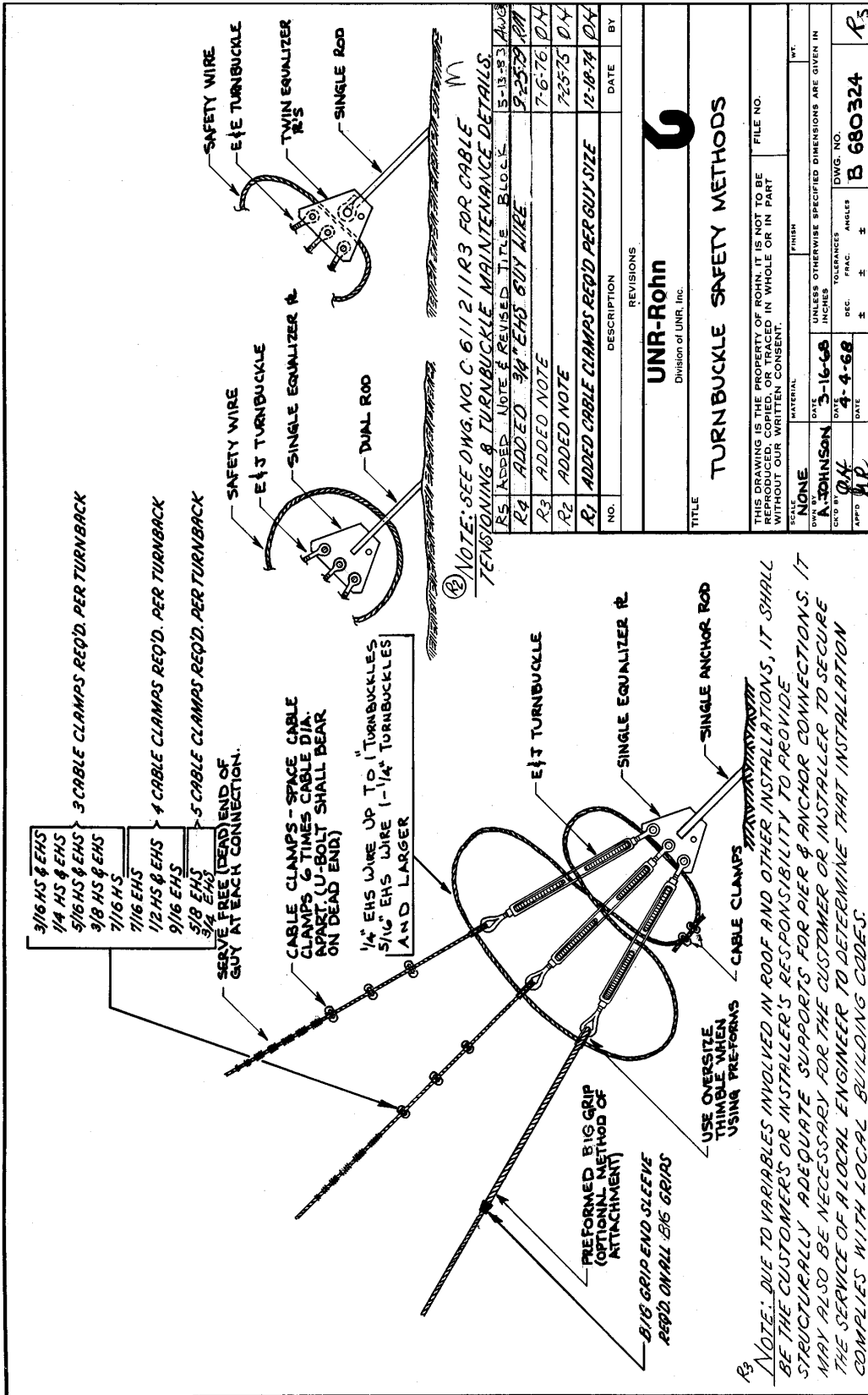




WIRE SIZE	ANCHOR ROD	TURNBUCKLE	THIMBLE
3/16 EHS	GAR30	5/8TBE&J	5/16THH
	GAC303, 305	3/8TBE&E	5/16THH
	GAC3455	1/2TBE&J	5/16THH
	GAC5655	5/8TBE&J	5/16THH
1/4 EHS	GAR30	5/8TBE&J	3/8THH
	GAC303, 305	1/2TBE&E	3/8THH
	GAC3455	1/2TBE&J	3/8THH
	GAC5655	5/8TBE&J	3/8THH
5/16 EHS	GAR30	5/8TBE&J	7/16THH
	GAC303, 305	5/8TBE&J	7/16THH
	GAC3455	5/8TBE&J	7/16THH
	GAC5655	5/8TBE&J	7/16THH
3/8 EHS	GAR30	5/8TBE&J	1/2THH
	GAC3455	5/8TBE&J	1/2THH
	GAC5655	5/8TBE&J	1/2THH

NOTE: THIS CHART APPLICABLE FOR E.I.A. REV. E GUY CHARTS ONLY

R2	REV'D EIA REV-D TO EIA REV-E	9-3-91	RKB	KZL	TS
R1	ADDED GAC303, 305 TO 5/16EHS	7/25/89	JHD	WDU	TS
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DRAWN BY: WDU DATE: 9/30/87			ROHN		
CHECKED BY: WRF DATE: 10/1/87			TITLE: GUY WIRE HARDWARE CHART		
APPROVED BY: RAM DATE: 10/1/87					
FILE NUMBER:					
DRAWING NUMBER: A871382 R2					



NOTE: SEE DWG. NO. C-611211R3 FOR CABLE TENSIONING & TURNBUCKLE MAINTENANCE DETAILS.

NO.	DESCRIPTION	DATE	BY
R5	ADDED NOTE & REVISED TITLE BLOCK	5-13-83	AWG
R4	ADDED 3/4" EHS GUY WIRE	9-25-81	RAH
R3	ADDED NOTE	7-6-76	DY
R2	ADDED NOTE	7-25-75	DY
R1	ADDED CABLE CLAMPS REQ'D PER GUY SIZE	12-18-74	DY

UNR-Rohn  
Division of UNR, Inc.

TITLE: TURNBUCKLE SAFETY METHODS

SCALE: NONE

DATE: 3-16-68

BY: A. JOHNSON

DATE: 4-4-68

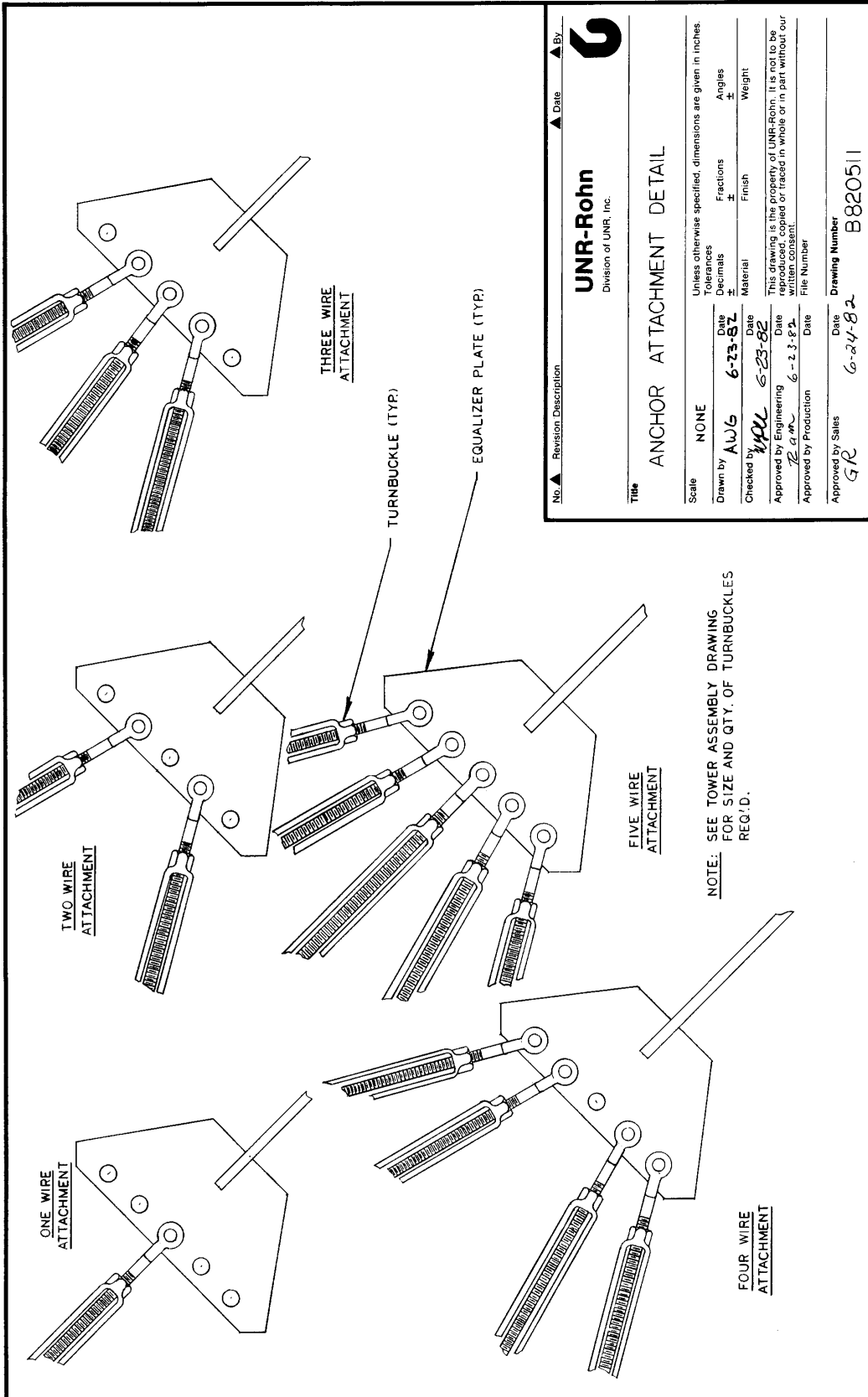
DWG. NO.: B 680324

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES

TOLERANCES: DEC. ±, ANGLES ±, FINISH ±

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

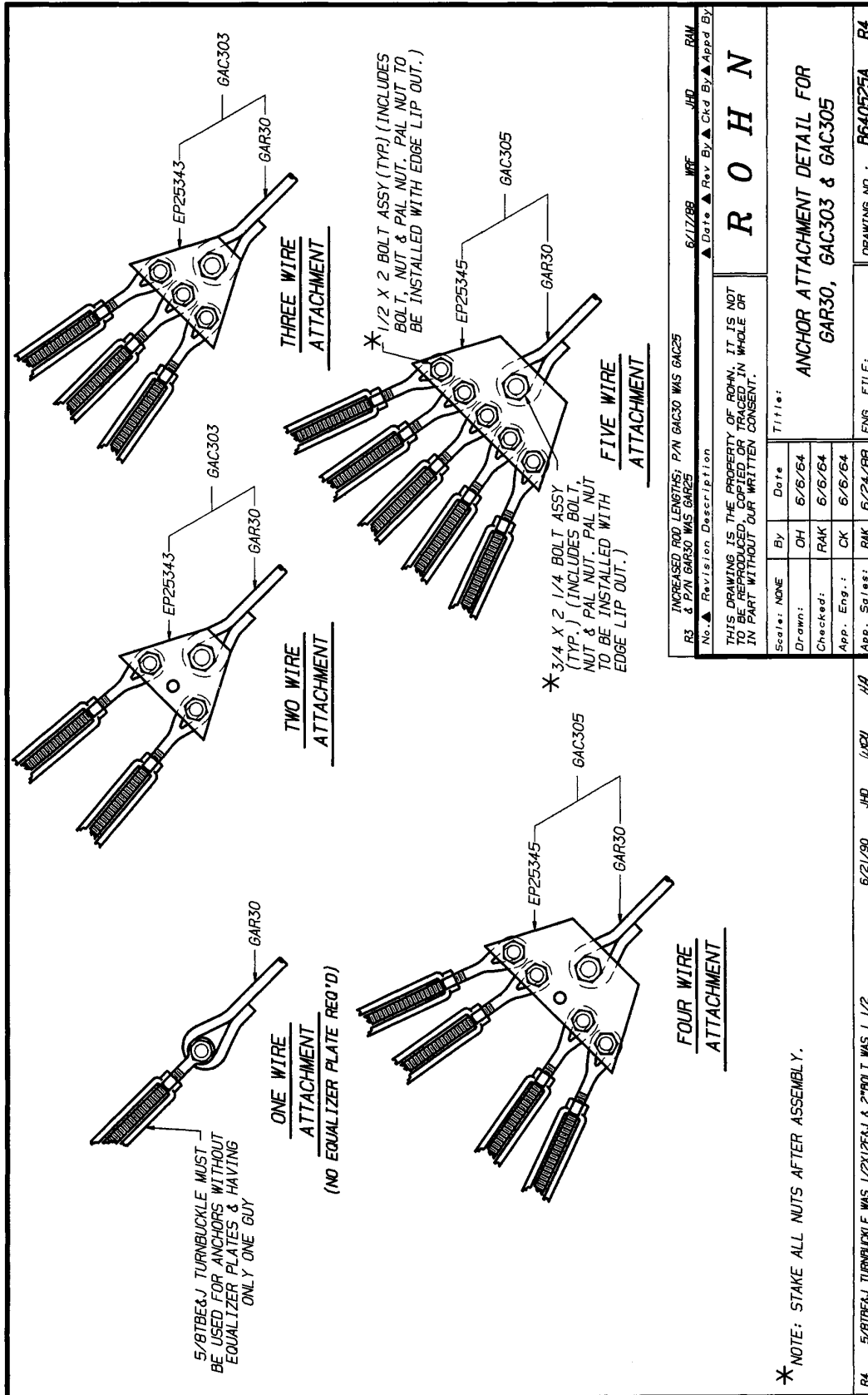


NOTE: SEE TOWER ASSEMBLY DRAWING FOR SIZE AND QTY. OF TURNBUCKLES REQ'D.

No.	Revision Description	Date	By
			<b>U</b>
<b>UNR-Rohn</b> Division of UNR, Inc.			
<b>ANCHOR ATTACHMENT DETAIL</b>			
Scale	NONE Unless otherwise specified, dimensions are given in inches.		
Drawn by	AJG	Date	6-23-82
Checked by	YPL	Date	6-23-82
Approved by Engineering	R. J. H. C.	Date	6-23-82
Approved by Production		Date	
Approved by Sales	GR	Date	6-24-82
		Drawing Number	B820511

RUNNING 40-105 41503-2





\* NOTE: STAKE ALL NUTS AFTER ASSEMBLY.

R3 INCREASED ROD LENGTHS; P/N GAC30 WAS GAC28 & P/N GAR30 WAS GAR25		6/17/88		JHD	RM
No. Revision Description		Date		Rev. By	Chd. By
Title:		R O H N			
Anchor Attachment Detail for GAR30, GAC303 & GAC305					
Scale:	NONE	By:	OH	Date:	6/6/64
Drawn:		Checked:	RAK	Date:	6/6/64
App. Eng.:	CK	Date:	6/6/64		
App. Sales:	RAK	Date:	6/24/88	ENG. FILE:	B640525A
DRAWING NO.:		R4			

R4 5/8TBE&J TURNBUCKLE WAS 1/2X12E&J & 2" BOLT WAS 1 1/2 6/21/90 JHD WPK H/A



BILL OF MATERIAL			
QUAN.	PART NO.	DESCRIPTION	DWG. NO.
2	EP25 3	3-HOLE EQUALIZER P.S.	C 660416
1	210049GA	3/4" X 2 1/4" BOLT ASS'Y	
3	210020GA	1/2" X 2" BOLT ASS'Y	
1	720004	PLASTIC BAG 6" X 9"	
2	EP25 5	5-HOLE EQUALIZER P.S.	C 660416
1	210049GA	3/4" X 2 1/4" BOLT ASS'Y	
5	210020GA	1/2" X 2" BOLT ASS'Y	
1	720008	PLASTIC BAG 9" X 13"	
1	260004P	5/8" X 18" WALL ANCHOR	
2	K466	5" X 5" X 1/4" RETAINER P.S.	
1	EP 2534 3	EQUALIZER PLATE KIT	
1	GAW 25	WALL ANCHOR ASS'Y	
1	EP 2534 5	EQUALIZER PLATE KIT	
1	GAW 25	WALL ANCHOR ASS'Y	

NO.	DESCRIPTION	DATE	BY
R1	ADDED NOTE	9-21-89	KAW
R2	ADDED NOTE	10-15-80	GRB
R3	ADDED NOTE	6-2-87	GRB
R4	ADDED NOTE	7-6-76	CH

ROHN®

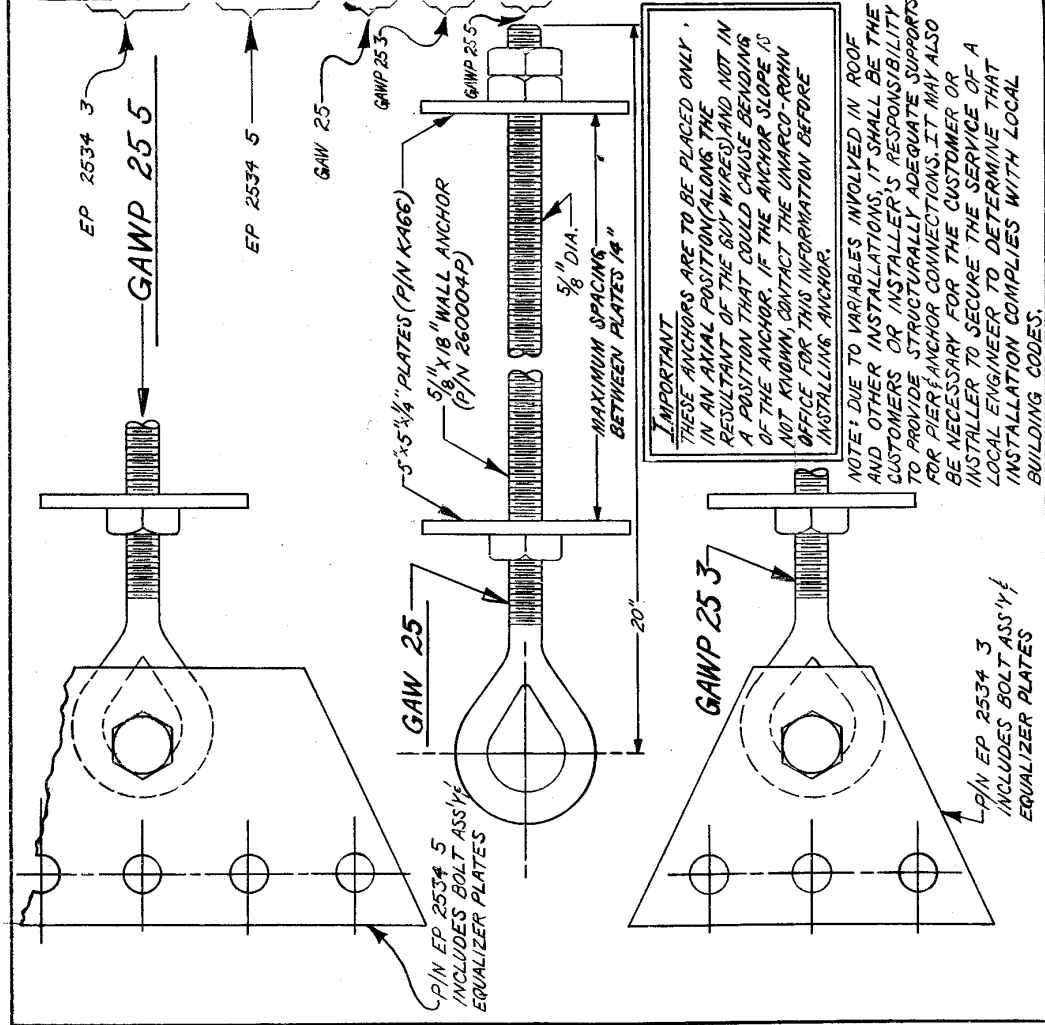
WALL & ROOF ANCHOR

OWN BY	DATE	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	DWG. NO.
J.H.D.	6-2-77		B 710804 R4
DATE	6-5-71	TOLERANCES	
DATE	8-6-71	DEC. ±	
DATE		ANGLES ±	

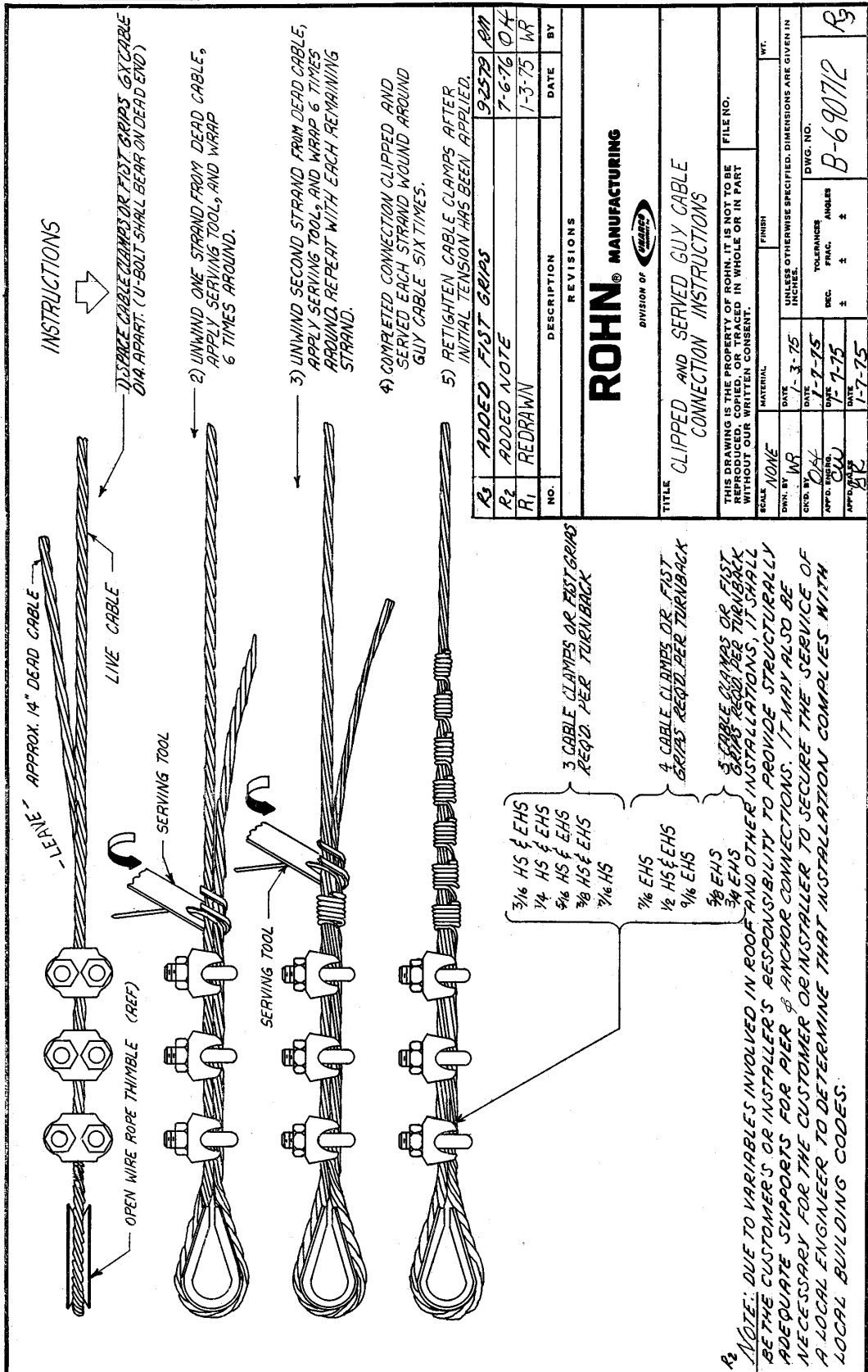
  

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**IMPORTANT**  
 THESE ANCHORS ARE TO BE PLACED ONLY IN AN AXIAL POSITION ALONG THE RESULTANT OF THE GUY WIRES AND NOT IN A POSITION THAT COULD CAUSE BENDINGS OF THE ANCHOR. IF THE ANCHOR SLOPE IS NOT KNOWN, CONTACT THE UNARCO-ROHN OFFICE FOR THIS INFORMATION BEFORE INSTALLING ANCHOR.

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.



NO.	DESCRIPTION	DATE	BY
R <sub>1</sub>	ADDED FIST GRIPS	9-25-78	AM
R <sub>2</sub>	ADDED NOTE	7-6-76	OK
R <sub>1</sub>	REDRAWN	1-3-75	WR

**ROHN® MANUFACTURING**  
DIVISION OF **WABCO**

**TITLE**  
CLIPPED AND SERVED GUY CABLE CONNECTION INSTRUCTIONS

SCALE	NONE	MATERIAL		FINISH		WT.
OWN. BY	WR	DATE	1-3-75	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.		
CHKD. BY	OK	DATE	1-7-75			
APP'D. BY	GU	DATE	7-7-75			
APP'D. BY	BR	DATE	1-7-75			
						DWG. NO. B-690712

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*TO ACHIEVE MAXIMUM COVERAGE WITH THE END SLEEVE, THE APPLICATION SHOULD BE CONDUCTED IN THE FOLLOWING MANNER:*

*(BE SURE TO SELECT PROPER SIZE END SLEEVE)*



1

*PLACE THE SLOT SIDE OF THE END SLEEVE OVER THE LONG LEG OF THE DEAD-END.*



2

*DRIVE THE SLEEVE DOWNWARD UNTIL THE RODS OF SHORT LEGS ARE COMPLETELY COVERED.*



3

*THE RODS OF THE LONG LEG SHOULD BE EVEN WITH, OR MAY EXTEND ABOVE, THE TOP EDGE OF THE SLEEVE.*

NO.		DESCRIPTION		DATE		BY	
		REVISIONS					
		<b>ROHN</b>					
TITLE		APPLICATION PROCEDURE					
		FOR BIG-GRIP END SLEEVE					
		FILE NO.					
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.		MATERIAL		FINISH		WT.	
DESIGNED BY	DATE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES
BY	DATE	TOLERANCES	DEC.	FRACTION	ANGLES	DWG. NO.	
BY	DATE	±	±	±	±	B-700607	R1
BY	DATE	±	±	±	±		

*R1 REVISED GUY GRIP TO BIG GRIP 7-6-76 DAK*





# INSTALLATION INFORMATION



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# ROHN INSTALLATION INFORMATION

**Base:** See appropriate ROHN catalog information. The first 10' section should be leveled, plumbed and temporarily guyed or braced while pouring the concrete. Do not pull tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

**Height of Tower and Bracket Uses:** See appropriate ROHN catalog information. (Note: Tighten the house bracket U-Bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-Bolts.)

**Bolts:** Nuts and bolts are located in tower legs on ROHN#20 and #25 towers. Installers are urged to use a 10" lining-up punch that tapers from about 3 mm to 6mm over 159 mm length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

**Miscellaneous:** Installation is greatly hastened and simplified with the use of an erection fixture. Do not use it to lift more than the weight of one tower section or any part of a section at one time. Erection fixtures are not intended to be used for lifting individuals. If the antenna is to be fixed and a set screw used in the mast housing, or if a rotator is to be mounted on a short length of mast above the tower top section, install a TB50 tower bushing at the bottom of the mast housing to center the mast in the mast housing. These bushings are "peened" in place. If the rotator is to be mounted inside the top section of the tower, do not install a TB50 tower bushing at the bottom of mast housing. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower. Towers are not to be used as ladders.

**Caution:** Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 40' of #45 tower, 30' of #25 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the towers must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

Roof installations have been excluded from the catalog. Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.

Engineering services are available. See appropriate price sheet in a ROHN catalog. Specifications subject to change without notice.

Towers and tower sections depicted in this catalog are examples presented as a reference guide. ROHN custom designs each individual tower for each specific installation from a large inventory of materials. Sections and parts in this catalog may be selected as part of that design.

The information contained herein does not purport to cover all details or variations in equipment nor provide for every possible contingency to be met in connection with installation, operation or maintenance. ROHN assumes no obligation to revise any of the information contained in this catalog if changes are made in criteria or evaluation techniques at a later date. Should particular problems arise which are not covered sufficiently herein for the purchasers purposes, the matter should be deferred to the ROHN home office.

Do not install towers and masts near power lines. All towers and masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

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

**All towers and masts should be installed and dismantled by experienced and trained personnel.**

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 ensure safety and proper performance.

**All antenna installations must be grounded per local and national codes.**

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all data or warranty supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or checked by ROHN to conform to the same quality standards. Mixing of non-ROHN item may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.





# EIA 222 TOWER STANDARDS



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# TIA/EIA STANDARD

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## Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

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**TIA/EIA-222-F**  
(Revision of EIA/TIA-222-E)

June 1996

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TELECOMMUNICATIONS INDUSTRY ASSOCIATION



## STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES TABLE OF CONTENTS

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This standard does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

(From Standards Proposal No. 3278, formulated under the cognizance of the TR-14.7 Structural Standards for Steel Antenna Towers and Antenna Supporting Structures Subcommittee)  
Published by Telecommunications Industry Association 1996, Standards and Technology Department, 2500 Wilson Boulevard, Arlington, VA 22201  
Price: Please refer to current Catalog of EIA, JEDEC, and TIA Standards and Engineering Publications or call Global Engineering Documents, USA and Canada (1-800-854-7179) International (303-397-7956)

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# ANTENNA SUPPORT QUESTIONNAIRE



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## ROHN® ANTENNA SUPPORT STRUCTURE QUESTIONNAIRE

Please complete or check all applicable spaces.

Customer: _____	Telephone No.: _____	Fax No.: _____
Address: _____	City: _____	State: _____ Zip: _____
Tower Site: _____	City: _____	County: _____ State: _____
Customer Contact: _____	Telephone No.: _____	Fax No.: _____

**This structure is for:**    Material Only    Material & Installation by ROHN    Union Labor    Non-Union Labor  
(ROHN assumes normal site & access)

Design assumes normal soil and rigidity per E.I.A., 80% guy radius, and level ground.

**Foundation Installation:**    By Others    By ROHN   Provide sketch or azimuth of one leg \_\_\_\_\_

**Type of Structure:**    Guyed    Self-Supporting    Bracketed    Roof Mounted    Concrete Pole    Steel Pole

**Structure Height:** \_\_\_\_\_ (Feet/Meters)   **Building Code:** \_\_\_\_\_

**Base of Structure:**    Ground    Roof at \_\_\_\_\_ ft. above grade

**Design Load:**    Wind    Basic    Other    Describe \_\_\_\_\_   **Ice** \_\_\_\_\_

**Operational Load:**   Wind \_\_\_\_\_   Ice \_\_\_\_\_

**EIA Operational Requirements:**    Yes    No    Other   Explain \_\_\_\_\_

**Step Bolts or Ladder:**    None   **Quantity:** \_\_\_\_\_

<input type="checkbox"/> Inside	<input type="checkbox"/> Face	<input type="checkbox"/> Standard
<input type="checkbox"/> Outside	<input type="checkbox"/> Corner	<input type="checkbox"/> Heavy
<input type="checkbox"/> Step Bolts	<input type="checkbox"/> Leg	<input type="checkbox"/> Other

**Safety Device:**    Rohn-Loc    Other   Explain \_\_\_\_\_

**Obstruction Marking and Lighting:**    None

**Aircraft Warning Lights:**    Yes    No    By Others   Explain \_\_\_\_\_

- |  |   |
|--|---|
| <input type="checkbox"/> FAA<br><input type="checkbox"/> Strobe - White Medium Intensity<br><input type="checkbox"/> Strobe - White High Intensity<br><input type="checkbox"/> Red Lights and Strobe Lights<br><input type="checkbox"/> ICAO 240V * (With B1R at Top 151' - 492')<br><input type="checkbox"/> OBKIT 240V (Double Obstruction Light at Top)<br><input type="checkbox"/> Alarm - Includes Indoor Control<br>(Specify Horizontal Distance Structure to Building _____)<br><small>*ICAO Kits with B1R are supplied with transformer and 120V bulbs</small> | <b>Number of Red/Strobe at Top</b><br><input type="checkbox"/> Strobe with Conduit<br><input type="checkbox"/> Conduit Clamps<br><input type="checkbox"/> Ice Shields |
|--|---|

**Paint:**    FAA    Factory applied    Sufficient Paint for Field Application

**Vertical Waveguide Support:**    None    Ladder    Brace Brackets    Conduit    Other

Location of Vertical Waveguide Support: (If Preference) \_\_\_\_\_

Note: Unless otherwise indicated above, waveguide ladder on self-supporting MW sections will be mounted on the face of the tower near the tower leg. If center face mounted, additional brackets will be required.

**Waveguide Bridge:** Provide sketch or explanation \_\_\_\_\_

**Platforms:**    Not Required    Required   (Provide elevation and description.) \_\_\_\_\_

**Lighting Protection:**    None

**Lightning Rod Required:**    No    Yes   If yes, quantity \_\_\_\_\_   If yes, extended type?    Yes    No  
 Downlead wire size \_\_\_\_\_

**EIA Grounding:**    Yes    No    Special   Explain: \_\_\_\_\_

## ROHN® ANTENNA SUPPORT STRUCTURE QUESTIONNAIRE

**Antenna Information:** (UHF/VHF mounts must state type of mount and length of side arm, if applicable. Attach a separate sheet if necessary.)

Quantity	Model No., Size and Manufacturer	Freq. *	Elev. (2' TOL. U.N.)	Azimuth if applicable	Antenna Mount Required			No. of Tiebacks	Ice Shield	Lines: Size Model & Qty.
					Yes	No	By Others (Describe)			

\*Frequency of microwave dishes only.

Will ROHN be responsible for coax elbow complex or details?  Yes  No

**The following data is required for special foundation designs:**

- 1) Allowable bearing capacity
- 2) Boring log showing composition and variation with depth
- 3) Water table depth and variation
- 4) Type of foundation recommended (pile, spread footing, mat, etc.)
- 5) Uplift recommendations pertinent to the type or types of foundations recommended
- 6) Consistency of soil:
  - A. Unconfined compression strength of cohesive soil (clay)
  - B. Standard penetration - blows per foot
  - C. Rock quality designation for rock
- 7) Allowable passive pressure in pounds per sq. ft. depth (PSF/FT)
- 8) Backfill considerations
- 9) Factors of safety included in allowable design values

Note:  
 1) Before any soil boring work begins, the soils engineer should contact ROHN for tower reactions, preferred boring locations, and any other data the soils engineer may require.  
 2) A detailed soils report, with proper foundation recommendations, will produce the most economical and safe foundation design.

**Additional information, comments, or special requirements:**

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**Purpose of Tower:** (Check One)  
 Broadcast       CATV       Cellular  
 Land Mobile       Microwave       PCS  
 Wireless Cable       Other (Please Specify) \_\_\_\_\_

**Drawings:**  Are  Are Not Required with Quotation

**Prices requested are:**  For budgetary purposes  Firm (Check One)

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Return completed form to: ROHN, 6718 West Plank Road, Peoria, Illinois 61604 USA



# TERMS & CONDITIONS



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# TERMS AND CONDITIONS OF SALE

**General** – In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.
- All delivery prices are FOB our point of manufacture, unless otherwise specified.
- The agreement and language herein shall be construed and enforced in accordance with the laws of the Province of Ontario and the federal laws of Canada, applicable therein as of the date of e-mail confirmation of your order.
- A finance charge, at the monthly rate of 2%, will be assessed on past due invoices where allowed by applicable law.

**Delay** – We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** – Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** – Terms are net 30 days from invoice date on approved credit.

**Credit Approval** – Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** – When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** – All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** – If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S

NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.

**Cancellation** – Orders accepted by us are non-cancellable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation. In no event shall this fee be less than 25% of the price of the materials or services cancelled.

**Packaging for Shipment** – The pricing for our products includes packing for standard ground domestic shipments, such as motor freight or package carriers. When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** – Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s). Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer-Specified Shipping Instructions and Freight Terms** – We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

#### Return of Material

- Advance authorization must be obtained and the returned products accompanied by a Return Authorization (RA) number.
- When authorized, the products must be returned within 90 days after the shipment date, in the original package, if any, and otherwise be in new condition. Products are to be returned with the freight charges prepaid.
- When the above conditions are satisfied and the products are accepted by us, a credit will be issued for the products, less a 25% restock charge.

**Shortage and Damage Claims** – All claims of shortages and damage must be filed within seven days of receipt of material.

**Engineering Terms & Conditions** – All products shown in our catalog are intended to be used by personnel who are qualified, trained and experienced in the design and installation of communication structures and installations. A licensed professional engineer familiar with these structures must be consulted to perform thorough structural analysis prior to any installation. Please contact us if you wish to perform these types of analyses. Prior to installation, structures must be at least visually inspected for corrosion by personnel experienced in that field.

Prices and specifications are subject to change without notice.



catalogsales@radiancorp.com  
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Toll Free +1 866 RADIANA (723-4264)  
Fax +1 866 RADIANO (723-4260)





# TERMS AND CONDITIONS OF SALE

**1.** All quotation, proposals, prices, or other terms are made for acceptance within 60 days (after 60 days, prices in effect at time of shipment will apply) and shipment within 60 days of purchase order date, unless otherwise stated. They are subject to change without notice, however, we invite your request for an extension. They are also subject to Credit and Marketing Department approval prior to acceptance. No other price protection is available.

**2.** Every effort will be made to maintain shipping schedules, either on Rohn equipment or via common carrier. Rohn cannot be responsible for delays in shipping caused by state or local agencies with regard to permits, routing, weather, detours, etc. All deliveries and schedules are contingent on availability of raw materials, fuel, and transportation. We will not be liable for damages on account of any delays or abnormalities caused in shipping due to causes beyond our reasonable control. Rohn reserves the right to make partial shipments and to submit invoices accordingly.

**3.** Changes or modifications to orders can be made only by written agreement executed by all parties affected thereby, which agreement shall include any price modification.

**4.** Rohn's responsibility ceases upon delivery of all shipments to the carrier. The unloading of all shipments is the responsibility of the customer, not the carrier or Rohn. Buyer is warned against receipting for merchandises until careful inspection has been made. Any claim made against Rohn must be made within 90 days after receipt of merchandise. All merchandise leaving Rohn's factory has been carefully inspected and Rohn does not assume responsibility for damages or shortages which occur in transit. Buyer must make all claims and report all damages and losses to the delivering transportation company.

**5.** No federal, state, or local taxes are included in quoted prices. All quotations, proposals, prices, or other terms are subject to increase without notification by the amount of any sales, excise, or other tax levied or charged to seller by any governmental agency and any such tax will be passed onto purchaser as a tax or as an addition to the selling price. This also applies to any costs incurred due to local statutes or governmental regulations.

**6.** Orders are not subject to cancellation by buyer except by written agreement with seller. Any order canceled, after any work has been done by Rohn, such as drawings, production, etc., will have a cancellation charge, to be determined solely at the discretion of Rohn for whatever work has been performed with a minimum of 20% of the purchase order price. If customer so chooses, he shall have the right to receive the material already performed at time of cancellation at the quoted price. If an order is canceled before any work has been done by Rohn, a \$200 cancellation charge will apply.

**7.** Material received may not be returned by buyer except by written agreement with seller. In all cases, permission must be secured from Rohn prior to the returning of any goods for credit. All returned goods are subject to a minimum service charge of 20%, plus all transportation charges, and are subject to inspection by Rohn. Returned goods will be offered and paid for only upon proof of purchase (i.e. invoice no.) and credit will be issued against invoice value. Rohn reserves the sole right to determine amount of credit to be issued on all goods returned for credit. Only standard, currently manufactured Rohn products may be considered for return and credit. Unsaleable products will be scrapped and no credit will be received. If returned goods are determined to have no value and buyer wishes them returned, the buyer will be charged return freight. Safety equipment, erection equipment, insulators, transformers, nuts and bolts are not returnable.

**8.** Rohn warrants the commercial items of its manufacture only, be reasonably fit for the purpose for which they are manufactured and sold, provided, however, that this warranty shall be effective only if purchaser installs all material according Rohn's recommendations and specifications and that purchaser during the warranty period shall regularly, not less than semi-annually, inspect and properly maintain all items. Any item found unfit for its purpose within 12 months from date of delivery will be repaired or replaced free of charge, F.O.B. Rohn's plant. Rohn shall be immediately notified in writing of such unfitness.

Rohn reserves the sole right to determine if any material is to be repaired or replaced free of charge or to be supplied at Rohn's standard prices. Such obligation shall be limited to parts returned for inspection, properly packed and expenses prepaid, and providing inspection shall satisfactorily indicate defects.

The warranty herein made is in lieu of all other warranties and, except as expressly stated herein, Rohn does not make and there are no warranties or obligations of any kind of nature whatsoever either expressed or implied including, but not restricted to, warranty or obligations as to product, material, workmanship, or manufacture or as to the use of the items covered hereby. Rohn shall not under any circumstances be liable to third persons for any claims or damages including direct, special, indirect, or consequential damages for any reason. The buyer agrees to indemnify and to hold Rohn harmless for, of, and from any loss, claims, damages, expenses and attorney's fees, including but not limited to, any fines, penalties and corrective measures Rohn may sustain by reason the Buyer's failure to comply with said laws, ruled, and regulations in connection with the performance of this sale.

The above warranty applies only to items manufactured by Rohn. Items not manufactured by Rohn are warranted and guaranteed only to the extent and in the manner warranted and guaranteed to Rohn by the manufacturer of such items and then only to the extent Rohn is liable to enforce such warranty or guaranty.

Rohn will assume no responsibility for the adequacy of any product if material is used which is not totally supplied by Rohn. The above sets forth the only warranty made by Rohn in connection with items manufactured or sold by it, and any provisions in any proposals, specifications, advertising, or other provisions hereof, are merely descriptive and are not to be construed as warranties made by Rohn. All warranties are void on drawings made by others, whether by professional engineer, sealed or not, that are not rechecked by Rohn and approved by Rohn. Rohn assumes no liability for the adequacy of the drawings or the product.

**9.** Rohn reserves the right to change or modify the product and construction of any product manufactured by Rohn and to substitute material equal to or superior to that originally specified.

**10.** Buyer agrees not to disclose or make available to any third party processes, drawings, specifications, reports, photographs, data and other technical or proprietary information relating to Rohn products without obtaining prior written consent of Rohn.

**11.** No proposal, order, quotation, or acceptance may be changed or varied by verbal agreement, and all orders are accepted only under the provisions set forth herein.

**12.** Purchase orders and requests for quotations must be submitted in writing to Rohn. It is the responsibility of the Buyer or Buyer Representative to provide Rohn design loading criteria (wind load, antenna load, geotechnical information, etc.) based on site-specific data in accordance with ANSI/EIA-222 (latest revision). This information must be verified by others prior to installation.

**13.** If outside source inspection, assembly, etc. is required prior to shipment of an order, \$50.00 per man hour (plus equipment time, if applicable) is chargeable, with \$300.00 as a minimum.

**14.** Any welding inspection required by customer or customer's specifications must be done at Rohn's plant prior to packing and shipment of material from Rohn's plant.

**15.** A minimum charge of \$25.00 will be billed for special handling and preparation of material for air shipments. **16.** Rohn reserves the right to apply all remittances and credit memos to the oldest outstanding balance in your account. No credits will be issued for any reason against a purchase order whose billing is more than 90 days old. Customer corrections or complaints must be made within this period of time.

**17.** Standard catalog prices do not include special drawings or product evaluations. If any are required, there will be a charge.

**18.** Rohn at all times reserves the right to take pictures of any or all of its products after installation for advertising purposes, except those which are under classified governmental control.

**19.** The customer will be responsible for any extra charges incurred on prepaid shipments. Any special item ordered and shipped from Reno, Bessemer, Frankfort, or Bridgeport will incur a 10% inbound freight, plus 7% warehouse and handling charge, and will be shipped F.O.B. shipping point.

**20.** A service charge not to exceed 1-11.2 % per month or maximum allowable per State law will be billed on all accounts not paid within 30 days of invoice date.

**21.** Minimum total net worth of merchandise which can be ordered is \$100.00. Any orders placed for less will be billed at \$100.00

**22.** Any purchase order, which is placed under a "hold order" for over five (5) days by the customer for any reason, will be subject to a 1% per month storage charge, plus a 1-11.2 % per month interest charge for a total of 21.2 % per month from the date of the hold until the order is released.

**23.** All CIA requirements must be met with certified checks or money orders to insure prompt shipment.

**24.** All expenses incurred by Rohn during any collection effort shall be charged to the customer.

Prices and specifications are subject to change without notice.



## SAFETY INFORMATION



PRODUCTS FOR A  
GROWING WORLD  
OF TECHNOLOGY

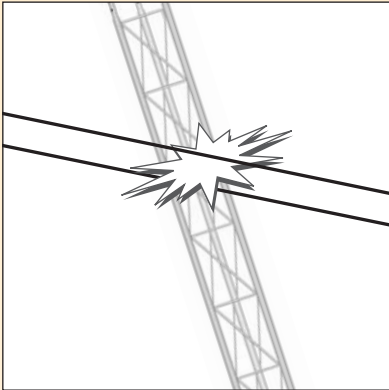


# SAFETY

## INFORMATION

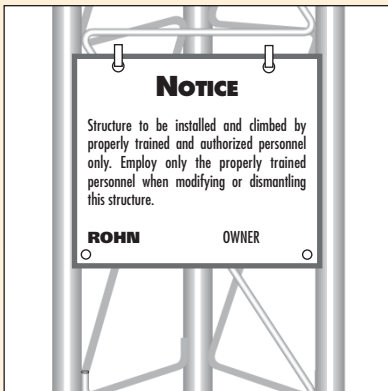
**THIS INFORMATION MAY SAVE YOU FROM DEATH OR INJURY!**

**DO NOT ATTEMPT TO INSTALL OR DISMANTLE ANY ROHN PRODUCTS UNTIL YOU HAVE READ AND UNDERSTOOD THE INFORMATION IN THIS DOCUMENT.**



### ELECTROCUTION HAZARD

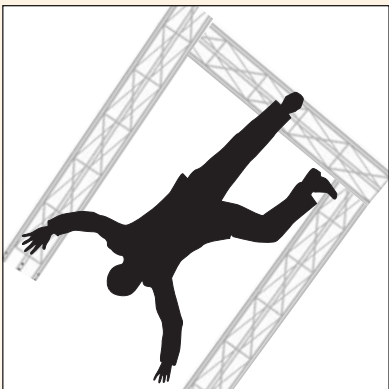
Do not attempt to install or dismantle ROHN products near any type of power line. Should your installation come into contact with power lines, **you can be killed!** Be sure your installation is out of falling distance of any overhead wires - including the lead to any building. Read all instructions carefully before you begin, or better yet, call a professional - it may save your life. See inside of this brochure for more information.



### WARNING SIGNS REQUIRED

This notice sign must be attached to all poles, towers and bases in a location which is conspicuous and readable from the ground so that all personnel are notified and warned. On large self-supporting towers, signs must be attached on all three legs (if they are climbable) or on the ladder. Aluminum wire is furnished for attaching signs. Radian recommends you check frequently to make sure the sign has not been removed. These 6" x 9" signs may be ordered prepaid for \$6.00 each. Specify part numbers ACWS.

**Tower Erectors** - Please see that these signs are attached per the instructions above before leaving the site.



### FALL HAZARD

**Guyed towers are not self-supporting at any height.** When installing or dismantling a guyed tower always consult your local tower installer. The condition of a used tower is difficult to determine and in the process of dismantling you could be killed or injured. Dismantling and installation may require the use of temporary steel guys.



## GENERAL INFORMATION AND PRECAUTIONS

### IF YOU NEED HELP FROM RADIAN

Field technicians, warning labels, catalogs, guy charts, etc. are available from Radian.

### IF YOU ARE SELLING ROHN PRODUCTS

Due to government regulations, be sure you and your customers are informed as to proper use when purchasing any antenna supporting structure.

### MIXING OF PRODUCTS

The mixing of so-called interchangeable copies of ROHN products with ROHN products is dangerous and voids all engineering or warranty data supplied by Radian. Materials used by the so-called copies are not the same quality and have not been tested or engineered by Radian to conform to the same quality standards. Mixing of ROHN items may endanger lives and cause serious failures and financial misfortune for all concerned.

### WHO SHOULD INSTALL OR DISMANTLE ROHN PRODUCTS

Installing, dismantling and rigging ROHN products requires specialized skills and experience. Information supplied by Radian assumes that all products will be installed or dismantled by personnel having these skills and having worked with similar products before. No one should attempt to install or dismantle ROHN products without these skills and experience.

Radian assumes no liability if faulty or dangerous 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.

### WHAT ABOUT USED MATERIAL

Radian does not recommend or warrant in any way the use of used materials. The use of used materials voids all warranties set forth by Radian because no one knows if the used material has been misused, overloaded, or damaged. If, for some reason, materials are re-used, all new, galvanized, high strength bolt assemblies must be used.

### GENERAL PRECAUTIONS

Radian recommends anti-climb sections on all structures to prevent unauthorized persons from climbing.

Installation and dismantling may require the use of temporary steel guys.

All installations must be grounded per local and national codes.

All types of installations must be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least once a year to ensure safety and proper performance.

Radian makes available many items which may or may not be required for your particular installation. Some items available in various types and sizes are safety climbing devices, ladders, safety cages, anti-climb devices, work platforms, F.A.A. painting and lighting, grounding, and fencing. Special product services and special packaging are also available.

Based on local, state, or federal laws and building codes for your area, it may be necessary for your particular installation to have special items or be given special consideration. If there are any special requirements for your particular installation, be sure to include them in your request for quotation and on your order form. Radian cannot be responsible for any omission at any time.

### ABOUT OSHA

Due to the Occupational Safety and Health Act regulations, parts are available incorporating features which will permit a safe product.

It is a policy of Radian to design and make our products safe to use without hazards to people and/or property.

We ask that you list specific requirements you wish us to comply with in accordance with the intended use of a product. These requirements may or may not affect the price of the materials and equipment under consideration for purchase.

We would be happy to answer any additional questions you may have.

### ABOUT STEP BOLTS

Towers and poles may or may not include step bolts. Step bolts are supplied as a convenience during construction.

If your structure has step bolts, the spacing at the section joints may not be consistent with the spacing throughout the structure. If this condition presents any hazard, the step bolts must be removed. For proper safety Radian recommends a ladder and/or safety climbing device on towers and poles.

Radian will not be responsible for the use of step bolts. If you wish to use step bolts, the responsibility for their use will be totally yours or your customers.

## CONSUMER WARRANTY

Seller makes no warranty of any kind, expressed or implied, and Buyer assumes all risk and liability resulting from the use of ROHN products, whether used singularly or in combination with other products.

Seller makes no warranty of merchantability of the products or the fitness of the products for any purpose.

Seller neither assumes nor authorizes any person to assume for Seller any other liability in connection with the sale or use of its products sold, and there are no oral agreements or warranties collateral to or affecting any sale.

The invalidity of any particular term or provision of this disclaimer shall not affect the validity of the remaining terms and provisions of the disclaimer and sales agreement.

## INSPECTION AND MAINTENANCE MANUAL

The Radian Inspection and Maintenance Manual, available from Radian for \$15, is a guide to help maintain your installation.

**Section 1** of the three part manual includes information and directions on performing tower maintenance. Areas include safety precautions, paint, corrosion protection, connections, guy wires, insulators, welds, lighting, conduit and grounding.

**Section 2** includes the drawings and check lists required to conduct an organized and thorough inspection of the structure. A second copy of all maintenance forms is included.

**Section 3** provides room for special notes and contains drawings, specifications, and component lists for ROHN Lighting Equipment.

## INSTALLATION AND DISMANTLING SAFETY INSTRUCTIONS

Each year people are killed, mutilated, or receive severe permanent injuries when attempting to install or dismantle towers, poles, and other structures. In many of these cases, the victim was aware of the dangers of electrocution but did not take adequate steps to avoid the hazard.

Good practice is to install your products away from power lines and obstructions. Your dealer carries a complete line of installation and grounding hardware.

For your safety and to help you achieve a safe installation, please **read and follow** the safety precautions below. **They may save your life!**

1. If you are not experienced in installing or dismantling, please, for your own safety as well as others, **seek professional assistance**. Consult your dealer.
2. Select your installation site with safety, as well as performance, in mind. **Remember: Power lines and phone lines look alike. For your safety, assume that any overhead lines can kill you.**
3. Call your power company. Tell them your plans and ask them to look at your site. This is little inconvenience, considering **your life is at stake**.
4. Before you begin, plan your installation or dismantling procedure carefully. Successful installation or dismantling is largely a matter of coordination. Each person should be assigned to a specific task and should know what to do and when to do it. One person should be designated as the “boss” to call out instructions and watch for signs of trouble.
5. When installing or dismantling, **Remember: Do not** use a metal ladder. **Do not** work on a wet or windy day or if a thunderstorm is approaching. **Do** dress properly — shoes with rubber soles and heels, rubber gloves, long sleeve shirt or jacket, and a hard hat.
6. If the assembly starts to drop, get away from it and let it fall. **Remember:** Antennas, masts, towers, cables, metal guy wires and other metal are all excellent conductors of electrical current. Even the **slightest touch** of any of these parts to a power line completes an electrical path through the installer!
7. If any part of the assembly should contact a power line — **Don't touch it or try to remove it yourself. Call your local power company.** They will remove it safely.
8. If an electrical accident should occur — **don't** grab hold of the person in contact with the power line or you too may be electrocuted. Use a **dry** board, stick or rope to push or pull the victim away from the antenna. Have someone call for medical help.

## CONSIDERATIONS IN ERECTING TOWERS AND SIMILAR PRODUCTS

Your local municipality or development may have established height and building standards governing the use of towers and similar products. Height restrictions are found in zoning ordinances and private deed restrictions. Building standards may be found in local building codes. Complying with these requirements is usually easy and will help to provide many years of safe and trouble free operation of your installation.

Zoning ordinances, building codes and private deed restrictions are complex legal documents. If you question whether they apply to you, consult a local attorney. Five minutes spent in advance can save many hours later.

Zoning ordinances, building codes and deed restrictions are local. If you move from city to city these restrictions may change.

Zoning ordinances are concerned with the type of buildings or other structures you can erect in your neighborhood. In terms of towers and similar products, zoning laws will tell you if your property is zoned for such items and, if so, what height limitations, if any, are involved.

Building codes are concerned with the safety of buildings or other structures permitted by local zoning ordinances. Building codes will tell you where on your property you can put the installation and the type of base and support (such as guy wires) you will need.

Both zoning and building codes are usually administered by the same governmental agency, often known as the Department of Building and Safety or the Zoning Board.

The Personal Communications Foundation believes that the following steps will help make sure you have a safe and legal installation:

1. Check with the local governmental agency. Ask whether your home is zoned for the type of product you wish to install.
2. Look at the actual zoning ordinances. Pay special attention to the definitions. Many zoning ordinances distinguish between “buildings” and “structures”. Others distinguish between towers physically attached to the house, either by guy wires or mounting and towers that are not attached.
3. See if a building permit is required. If so, be sure to get one. They are usually quite inexpensive, often less than one percent of the cost of the tower. As part of the building permit, a local inspector will check and make sure that the base, guy wires, etc., meet local safety requirements. Properly manufactured commercially made towers are extremely safe and have a large safety margin, but only if you install them according to the

directions! Paying \$10.00 to \$25.00 for an expert to inspect the foundation and finished installation is the cheapest insurance you can possibly buy! If a permit is required and not obtained, your home-owner's insurance may not insure the tower and you have given neighbors, who might object, a reason to require you to take the tower down.

4. In a limited number of cases you may need either a zoning variance or a conditional use permit to erect a structure higher than the local zoning board requirements. If so, it is far easier to apply in advance than to put up the structure and apply later. Most local governments are quite cooperative if you apply in advance and follow their rules. Variance provisions are used to provide flexibility from dimensional regulations such as setback or height restrictions. Conditional use permits are used where towers or antennas are not otherwise allowed. A public hearing is usually required before such permits are issued.

5. In addition to local ordinances, real estate developers or homeowners' associations may impose their own requirements in a subdivision. These requirements are usually known as deed restrictions or Conditions, Covenants and Restrictions (CC&R).

If you are thinking of moving into a new area, ask for a copy of the deed restrictions in advance of signing an offer to purchase the property. If you already own a home, a local realtor, title insurance company or lawyer can obtain copies of the deed restrictions, if any, for you. Don't take the word of the realtor who may be wrong!

If there are no deed restrictions, you need only be concerned with local zoning and building codes. If there are deed restrictions, read them carefully. Look at the definitions. See if there are any restrictions on outside structures or on the height of buildings or other structures or if a local architectural control committee must pass on any additions or changes to your property.

Deed restrictions are legal documents. A local lawyer familiar with real estate law can read the restrictions in only a few minutes and advise you. Even if the deed restrictions prohibit or restrict the size of towers and similar products, they may be unenforceable if many of your neighbors have erected such products and no objections have been raised.

This information has been adapted from the  
PERSONAL COMMUNICATIONS FOUNDATION  
10960 Wilshire Boulevard, Suite 1504  
Los Angeles, CA 90024

