



# Mobile Home Permit Worksheet

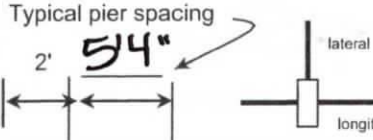
Installer: SHAWN BROCK License # IHI153145

Address of home being installed 1716 NW Moore Farms Road Lake City, FL

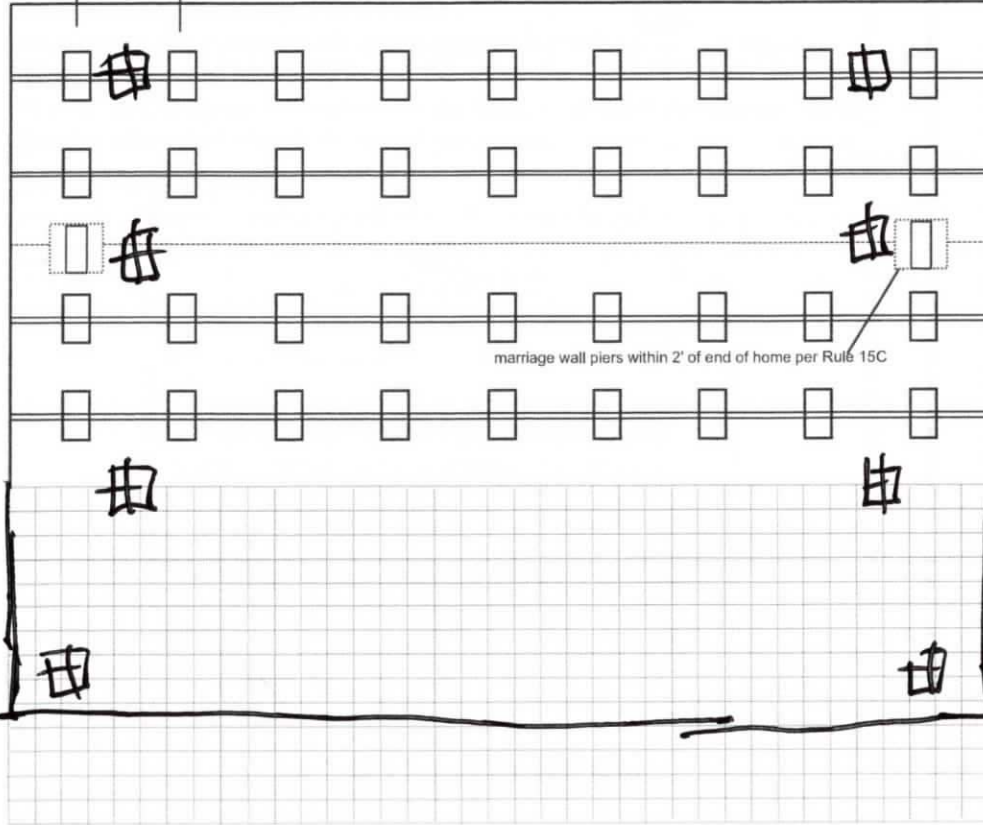
Manufacturer Palm Harbor Length x width 76X45

**NOTE:** If home is a single wide fill out one half of the blocking plan  
If home is a triple or quad wide sketch in remainder of home  
I understand Lateral Arm Systems cannot be used on any home (new or used)  
where the sidewall ties exceed 5 ft 4 in.

Installer's initials SB



Show locations of Longitudinal and Lateral Systems  
(use dark lines to show these locations)



Permit Number: \_\_\_\_\_ Date: \_\_\_\_\_

New Home  Used Home   
Home installed to the Manufacturer's Installation Manual   
Home is installed in accordance with Rule 15-C   
Single wide  Wind Zone II  Wind Zone III   
Double wide  Installation Decal # \_\_\_\_\_  
Triple/Quad  Serial # \_\_\_\_\_

### PIER SPACING TABLE FOR USED HOMES

Load bearing capacity	Footer size (sq in)	16" x 16" (256)	18 1/2" x 18 1/2" (342)	20" x 20" (400)	22" x 22" (484)*	24" X 24" (576)*	26" x 26" (676)
1000 psf		3'	4'	5'	6'	7'	8'
1500 psf		4'6"	6'	7'	8'	8'	8'
2000 psf		6'	8'	8'	8'	8'	8'
2500 psf		7'6"	8'	8'	8'	8'	8'
3000 psf		8'	8'	8'	8'	8'	8'
3500 psf		8'	8'	8'	8'	8'	8'

\*interpolated from Rule 15C-1 pier spacing table.

### PIER PAD SIZES

I-beam pier pad size 17x25  
Perimeter pier pad size 16x16  
Other pier pad sizes \_\_\_\_\_  
(required by the mfg.)

Draw the approximate locations of marriage wall openings 4 foot or greater. Use this symbol to show the piers.

List all marriage wall openings greater than 4 foot and their pier pad sizes below.

Opening	Pier pad size
_____	<u>17x25</u>
_____	_____

### TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)  
Manufacturer Min Man  
Longitudinal Stabilizing Device w/ Lateral Arms  
Manufacturer Min Man

### POPULAR PAD SIZES

Pad Size	Sq In
16 x 16	256
16 x 18	288
18.5 x 18.5	342
16 x 22.5	360
17 x 22	374
13 1/4 x 26 1/4	348
20 x 20	400
17 3/16 x 25 3/16	441
17 1/2 x 25 1/2	446
24 x 24	576
26 x 26	676

4 ft X 5 ft \_\_\_\_\_  
**ANCHORS**

### FRAME TIES

within 2' of end of home spaced at 5' 4" oc \_\_\_\_\_

### OTHER TIES

Sidewall \_\_\_\_\_  
Longitudinal \_\_\_\_\_  
Marriage Wall 14+  
Shear Wall 6-



# Mobile Home Permit Worksheet

## POCKET PENETROMETER TEST

The pocket penetrometer tests are rounded down to \_\_\_\_\_ psf or check here to declare 1000 lb. soil  without testing.

X \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_

- ### POCKET PENETROMETER TESTING METHOD
1. Test the perimeter of the home at 6 locations.
  2. Take the reading at the depth of the footer.
  3. Using 500 lb. increments, take the lowest reading and round down to that increment.

X \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_

## TORQUE PROBE TEST

The results of the torque probe test is 275 inch pounds or check here if you are declaring 5' anchors without testing \_\_\_\_\_. A test showing 275 inch pounds or less will require 5' anchors.

**Note:** A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. I understand 5' anchors are required at all centerline tie points where the torque test reading is 275 or less and where the mobile home manufacturer may require anchors with 4000 lb. holding capacity.

Installer's initials SB

### ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name SB

Date Tested \_\_\_\_\_

## ELECTRICAL

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between multi-wide units. Pg. \_\_\_\_\_

## PLUMBING

Connect all sewer drains to an existing sewer tap or septic tank. Pg. \_\_\_\_\_

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg. \_\_\_\_\_

Permit Number: \_\_\_\_\_

Date: \_\_\_\_\_

## Site Preparation

Debris and organic material removed NO  
Water drainage: Natural \_\_\_\_\_ Swale \_\_\_\_\_ Pad  Other \_\_\_\_\_

## Fastening multi wide units

Floor- Type Fastener: LAGS Length: 5" Spacing: 1'  
Walls- Type Fastener: SCREWS Length: 5" Spacing: 8"  
Roof- Type Fastener: LAGS Length: 7" Spacing: 2'

For used homes a min. 30 gauge, 8" wide, galvanized metal strip will be centered over the peak of the roof and fastened with galv. roofing nails at 2" on center on both sides of the centerline.

## Gasket (weatherproofing requirement)

I understand a properly installed gasket is a requirement of all new and used homes and that condensation, mold, mildew and buckled marriage walls are a result of a poorly installed or no gasket being installed. I understand a strip of tape will not serve as a gasket.

Installer's initials SB

Type gasket- FOAM Installed:  
Pg. \_\_\_\_\_ Between Floors-----Yes   
Between Walls-----Yes   
Bottom of ridge beam----Yes

## Weatherproofing

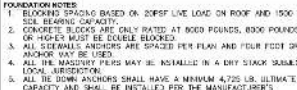
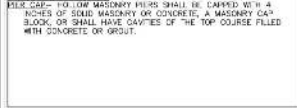
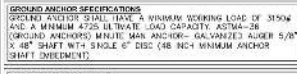
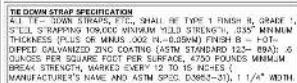
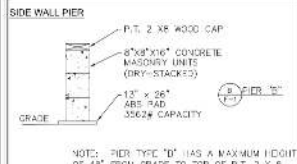
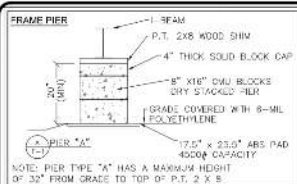
The bottom board will be repaired and/or taped.-----Yes  Pg. \_\_\_\_\_  
Siding on units is installed to manufacturer's specifications.-----Yes   
Fireplace chimney installed so as not to allow intrusion of rain water.---Yes N/A

## Miscellaneous

Skirting to be installed.-----Yes  No \_\_\_\_\_ N/A \_\_\_\_\_  
Dryer vent installed outside of skirting.-----Yes  No \_\_\_\_\_ N/A \_\_\_\_\_  
Range downflow vent installed outside of skirting.---Yes  No \_\_\_\_\_ N/A \_\_\_\_\_  
Drain lines supported at 4' intervals.-----Yes  No \_\_\_\_\_ N/A \_\_\_\_\_  
Electrical crossovers protected.-----Yes  No \_\_\_\_\_ N/A \_\_\_\_\_  
Other: \_\_\_\_\_

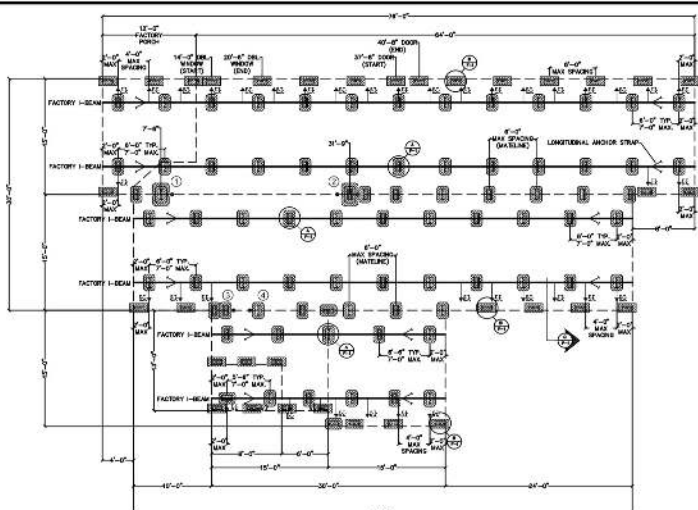
**Installer verifies all information given with this permit worksheet is accurate and true based on the manufacturer's installation instructions and or Rule 15C-1 & 2**

Installer's Signature SB Date 3/17/26

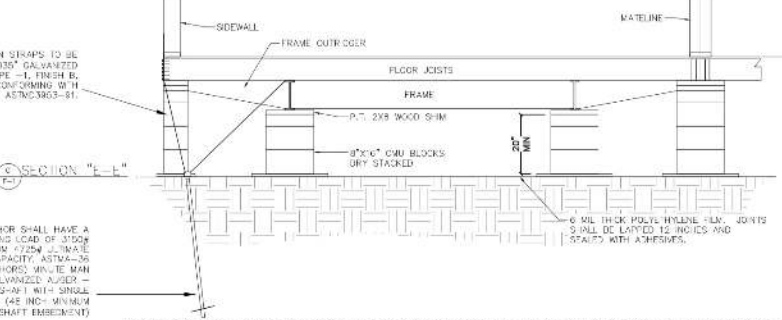


- FOUNDATION NOTES**
1. BLOCKING SPACING BASED ON 20PSF LIVE LOAD ON ROOF AND 1500 PSF SOIL BEARING CAPACITY.
  2. CONCRETE BLOCKS ARE ONLY RATED AT 8000 POUNDS, 8000 POUNDS PER SQ. FT. OR HIGHER MUST BE DOUBLE BLOCKED.
  3. ALL SIDEWALLS AND PERS ARE SPACED PER PLAN AND FOUR FOOT GROUND ANCHOR MAY BE USED.
  4. ALL THE MASONRY PIERS MAY BE INSTALLED IN A DRY STACK SUBJECT TO LOCAL JURISDICTION.
  5. ALL THE TIE-DOWN ANCHORS SHALL HAVE A MINIMUM 4725 LB. ULTIMATE CAPACITY AND SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
  6. THE SIDE FRAME OF HOME IS NOT FOR USE OF REDUCTION OF HOME AFTER SETUP, AND IS INTENDED FOR USE AS A PERMANENT FOUNDATION.
  7. ALL PIERS SHALL BE CONSTRUCTIVE OF 8"X16"X16" CONCRETE MASONRY UNITS CONFORMING TO ASTM C90.
  8. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS.
  9. BREAK THROUGH PIERS MAY BE INSTALLED LATERALLY OR DIAGONALLY FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN, MUST BE LOCATED EXACTLY BELOW THE I-BEAM CENTRAL LINE.
  10. WOOD SHIMS MAY BE INSTALLED WHEN NECESSARY BETWEEN THE I-BEAM AND THE TOP OF THE PIER. SHIMS SHALL BE FREE OF KNOTS, SPLITS, AND SIMILAR IMPURITIES. SHIMS SHALL BE P.T. LUMBER, CEDAR, OR ABS AND BEARING AT ALL CONTACT POINTS SHALL NOT BE LESS THAN 2/3 OF THE BEARING PRIOR TO ADDING THE SHIMS.

- STRUCTURAL LOAD LIMITATIONS**  
 CODE: EXISTING 2023 IBC/SEA BUILDING CODE (2018 EDITION) & ASCE 7-22
1. ULTIMATE DESIGN WIND SPEED: 120 MPH WIND SPEED
  2. NOMINAL DESIGN WIND SPEED: 93 MPH WIND SPEED
  3. WIND EXPOSURE CATEGORY: "C"
  4. IMPORTANCE FACTOR: 1.0
  5. DESIGN ROOF LIVE LOAD: 20 PSF
  6. DESIGN FLOOR LIVE LOAD: 40 PSF
  7. MIN. ASSUMED SOIL BEARING CAPACITY: 1500 PSF
  8. OCCUPANCY CLASSIFICATION: R1
  9. CONSTRUCTION TYPE: VB
  10. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT IN A HIGH VELOCITY HURRICANE ZONE AS DEFINED BY THE IBC.
  11. THIS BUILDING IS NOT DESIGNED TO BE SUBMITTED OR SUBJECT TO WAVE ACTION WHEN LOCATED IN A FLOOD HAZARD OR ZONE AREA. THE BOTTOM OF THE STRUCTURAL I-BEAM MUST BE LOCATED ABOVE THE BUILDING SITE FLOOD PLANE LEVEL FOR THIS BUILDING TO BE LOCATED IN A FLOOD HAZARD OR ZONE AREA OR THE GRADE AT THE BUILDING SITE MUST BE ABOVE THE FLOOD PLANE LEVEL.



THE TIE-DOWN STRAPS ARE INSTALLED BY THE MANUFACTURER, AND THEREFORE THE LOCATION OF THE STRAPPING COULD AFFECT THE LOCATION OF THE PIERS BASED UPON THE PROVIDED FOUNDATION PLAN. THE PERIMETER PIERS MAYBE OFFSET FROM THE DESIGN LOCATION IF THEY INTERFERE WITH THE TIE-DOWN STRAP PERIMETER PIERS MUST BE INSTALLED AT ALL PERIMETER PIERS LABELS SPECIFIED BY MANUFACTURER



THIS FOUNDATION IS DESIGNED TO SUPPORT THE SUBJECT STRUCTURE AS WELL AS ANCHOR THE STRUCTURE IN A MANNER CONSISTENT WITH THE 2023 IBC REQUIREMENTS FOR A SITE BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERRECTED

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK V. RICHTER, P.E. #56198 ON THE DATE AND/OR TIME USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY THIRD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY. (FAC 61G15-23.004)

03-04-2026

SENBY ENGINEERING, LLC  
 CA LIC. NO. 30244

- COLUMN LOADS:**
- 1 = 7219 LBS. 2 = 7219 LBS. 3 = 1450 LBS.
  - 4 = 1459 LBS.

- SYMBOLS**
- 17.5"X23.5" ABS PAD = 4500 LBS. CAPACITY
  - 24"X24" ABS PAD = 6000 LBS. CAPACITY
  - 17.5"X23.5" ABS PAD = 9000 LBS. CAPACITY (TOP PAD IS LAID IN THE OPPOSITE DIRECTION TO THE BOTTOM PADS)
  - 12"X26" ABS PAD = 3562 LBS. CAPACITY
  - FRAME TIE-DOWN FASTENED TO GROUND ANCHOR
  - COLUMN ANCHOR STRAP FASTENED TO GROUND ANCHOR
  - LONGITUDINAL ANCHOR STRAP LOCATIONS

Senby Engineering Services  
 50 W. Central Ave.  
 Suite B  
 Lake Wales, FL 33859  
 Office: 888-590-5830  
 Email: enginfo@senbyengineering.com  
 www.senbyengineering.com

THESE STANDARDS AND PLANS MEET THE 2023 IBC - RESIDENTIAL (2018 EDITION) EXPOSURE "C"

ALL TIE-DOWN DESIGN WIND SPEED = 120 MPH (RISK CATEGORY 3 BUILDING)  
 ALL NOMINAL DESIGN WIND SPEED = 93 MPH (RISK CATEGORY 3 BUILDING) (TABLE 1609.3.1)

MARK V. RICHTER, P.E. #56198  
 50 W. CENTRAL AVE. SUITE B  
 LAKE WALES, FL 33859  
 OFFICE: 888-590-5830

Digitally signed by Mark V. Richter  
 Date: 2026.03.05 18:59:34 -05'00'



**DRAWING INFORMATION:**

NAME: S.E.C.

DATE: 03-04-2026

SCALE: NOT PRINTED TO SCALE

CUSTOMER: DAVID & ANGELA MOORE  
 ADDRESS: 1716 NW HICKORE FARMS RD., LAKE CITY, FL 32055  
 MANUFACTURER: DEER VALLEY HOMEBUILDERS- 45' X 78' (ON-FRAME)  
 FOUNDATION PLAN  
 PROVIDED BY  
**Senby Engineering Services**  
 LAKE WALES, FLORIDA 33853

DESIGNED FOR 20  
 1500 PSF SOIL BEARING CAPACITY

**F-1**

SHEET 1 OF 1

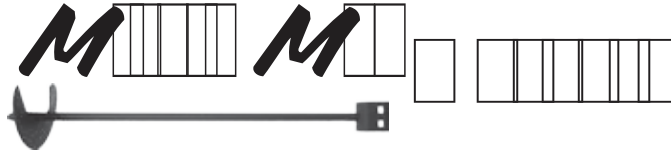


# Installation Instructions

**For Anchors, Frame Ties, Steel Piers, & LLBS Support Systems**

Rac O ° Q&4 0) H&  
 zj Q&my &MS½gDS\*& Tj \*Sv0j | N, | k

Anchors Now Listed Nationally With  
**RADCO**  
 A TWINING COMPANY  
 #1344



## LIMITED WARRANTY

Minute Man Anchors warrants its product is free from defects in materials and workmanship at the time of installation when properly installed in accordance with the installation instructions. THE FOREGOING WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY LIABILITY IS EXPRESSLY LIMITED TO AN AMOUNT EQUAL TO THE PURCHASE PRICE PAID, AND ALL CLAIMS FOR SPECIAL, INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE HEREBY EXCLUDED. Minute Man does not assume any other liability or obligation in connection with the sale or use of this product.

If the product is defective at the time of delivery or installation and you give prompt notice to Minute Man no later than thirty [30] days of attempted installation of the defect, Minute Man, at its option, will replace the product at no cost or refund the full amount of the purchase price, provided The defective product is returned to Minute Man with proof of purchase at the address set forth below. PRODUCT REPLACEMENT OR REFUND IS YOUR SOLE AND EXCLUSIVE REMEDY.

This warranty extends only to the distributor and original installer of the product and does not cover a defect resulting from abuse, misuse, neglect, repairs, any use not in conformity with The printed instructions or installation by unauthorized personnel.

This warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state. Some states do not allow limitations on implied warranties or special, incidental or consequential damages, so the foregoing limitations may not apply to you.

If you have a claim under this warranty, please contact our CUSTOMER SERVICE department (have make, model numbers and soil class numbers):

CUSTOMER SERVICE  
Toll Free in the U.S. 1-800-438-7277  
1-828-692-0256

OR WRITE TO:  
Minute Man- Customer Service  
305 West King Street  
East Flat Rock, NC 28726

**To our knowledge, the information provided in and by the independent, professional engineers' reports and certifications and obtained from other independent sources contained in the installation instructions and product manuals is accurate. However, Minute Man Anchors cannot assume any liability whatsoever for the accuracy or completeness thereof. Final determination of the suitability of any information or material for the use contemplated is the sole responsibility of the user. Specifications are subject to change without notice. The load ratings established in the report are not valid in any application where the use of the product would overload any structural member of the home or foundation, or would invalidate the written limited warranty, or would violate any applicable building code or these installation standard or instructions.**

P: ° Q ° Q, W 88° ° Q' 1/28° Qj ° - \*S U°; j Qj G' 1/2 S( ° ° ° 1/2 j °; U Q, W 88° U(S\*Xj 88°.

- U' & - j° 1° 1/2 S\*Q: j U) - 8° ° ° °; j° 1/2 S\*U) (S\* & ° Xj °' (j 1/2 \*°; : S X ° U; ' Q & g 1/8° 89° ° Q U S' ° ° ((S\* Q S - \*S U° ° ° j °; U° S j & ° - \*S; ' 1/2 Q ° Q; S U) g ° j ° 1/8 X X 88; S & ° : U: ° Q + ' j V & X j; ° X j & \* U V Q S' X j ° Q U j °; S & V/2 Q S X ° \* Q 8 Q j 1/88°.

U ( S' j ° j V °) 8 X ° - U' & - j° 1/2 Q S X ° \* g P: j °' y S' (S\* S' \* 1/8° 89° °; & ° Q j °; - j & S ° j) °. U ( S' j ° j ° ° 1/2 Q S X ° \* g O ° V S X ° 3 ° V S' (S\* j \*; S Q \* U) S' U & Q ° ° \*) \* S U) U; ' Q & .

**p % '9Y U**

**E T 6 y**

*have questions or we may be of service, please contact our office.*  
*tuki i uhvkummm*  
*( 2 D1sknk H, nu nMk*  
**You can also find further information at our website:**  
[www.minutemanproducts.com](http://www.minutemanproducts.com)

### 5, ( 7%9J39Y %A

L° Q, W 88° .....	F
H&j - P° Q S ° ° *	F
H& x U ° *	I
m j X ° P U S 1° 1/2 S*	I
m j X ° P U L° Q' 1/28° Q	R
G S 1/2 U) m j X ° T V X - L	R
z f 1° 1/2 S* L° Q, W 88°	O
A O S 1° 1/2 S* L° Q, W 88°	C
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- S x V u S X ° J U * L° Q, W 88° L° Q' 1/28° Q	,
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HUD Soil Classification Chart	r
O U; f S ° ° T: j * &	r
MMA Soil Classification Chart/Soil Probe Instructions	Fa
J * S; ' 1/2 b ° Q 1/2 U 88°	FFSI
1 - * S j W & *	FR
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M1 b T v G 089) 5FRca	Fk
M1 b T v G 089) 5FRcc	F, FN
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O j & * G ° ° V L° Q' 1/28° Q	I R

Note: Prior to installation, refer to any local, state and federal regulations, to assure proper compliance. Soil test probe the anchor location in order to match the soil classification with the proper anchor.



**w34z k Bvm5. cc. 5B w**

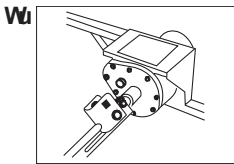
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 Q 1/2 \* U ) X j ° ( j 1/2 \* ° ; : § X ° Q § & ° ) \* § ' ° ; .

**A2bW0I 1** The installation of anchors with a drive machine is a two person operation.

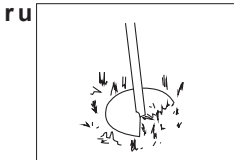
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**h. 34 BvG Bvm5. cc. 5B w**

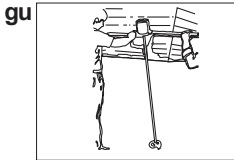
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 ; \* U ° X j 1/2 U ° .



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 X j 1/2 U ° .



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 j ° ; X j 1/2 U ° .



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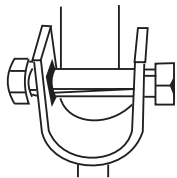
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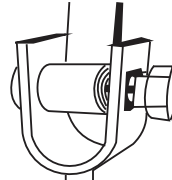
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 & X ° .

**dkz dGk 5GwmB wBvD z F m5k. d 5z . w34z k 4G. P**

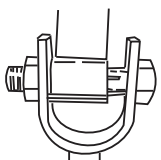
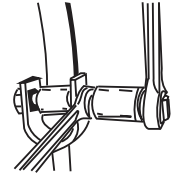


l° Q \* & x § V U § : ° j ; Q & § 1/2 ° ' &  
 § § Q V . l° Q \* & § j - U Q § & § ( 5/8" bolt until strap is flush with  
 ( j \* Q ° § ( x § & §



p ° ° ; Q § j - r a j ° ; & ' ° j & V j Q &  
 & \* ° 1/8 X - V & & \* ° Q § ° x § V ° & V  
 Q § j - W & ' &

Bolt is turned with 15/16" socket wrench, or adjustable wrench, on  
 : ° : ° j ; . O & Q ' j \* ° : § V U j ° 1/2 § \* : ° j ; g : § V x § V ° ; ° \* & ° Q § °  
 while repositioning wrench: Place open-end wrench on 5/8" square  
 Q § ' V ° \* Q § ( x § & 1 W ) ° Q ' j \* ° Q § ' V ° \* Q § ( x § & & Q ' j \* ° : § V U  
 j ° 1/2 § \* : ° j ; .



u § V U ) : ° : ° j ; § ( x § V U - § Q § § ° g & V : & ° ° ' & § ; j Q ' j \* ° Q § ' V ° \* Q U § Q ' j \* °  
 : § V . H : § ' V ° \* Q j \* ° § U § 1/2 U ) - § Q § § ° C § § ° § ° ' ° & § V : & ° ° ' & P ° Q § ° U ) ; ° U §  
 W ° § U § 1/2 ° ; g Q 1/2 \* ° - § Q § § ° .

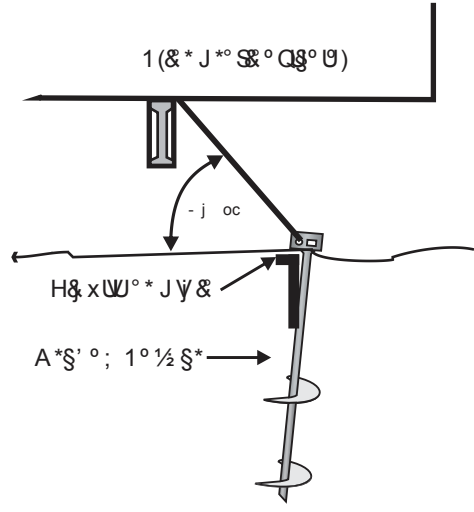
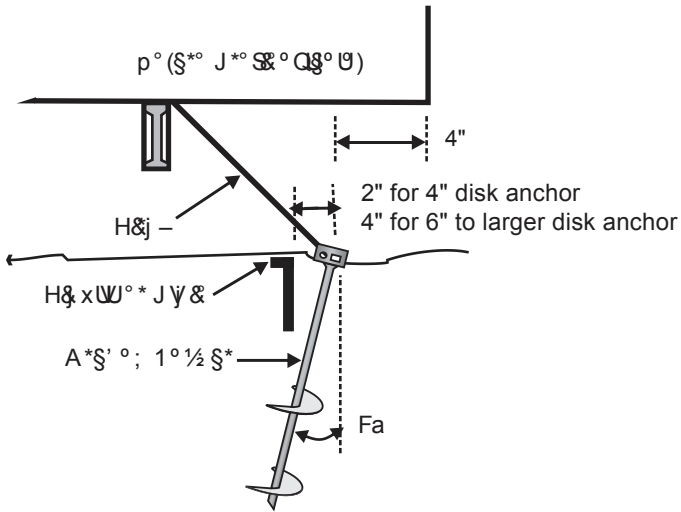
P

Notice: In areas of severe cold weather, where possible damage could occur from frost heave, the homeowner should be prepared to adjust tension on the straps to take up slack.

**h Bv° 5G h . w . w34 z km**

**Bvm5k° 35B w Fz k ° mBvD h Bv° 5G h . w m5. 2 B B/BvD PGvBG**

- U' & - j ° Q x W U ) ; ° U 2 Q j \* ° ; ° Q ) ° ° ; ( S \* ' Q U & - U' & - j ° j ° 1/2 S \* Q j ° ; U & ° ; ° ; S  
 y & \* j W \* ° Q U X S ° X ° ° S ( & ° j ° 1/2 S \* & \* S' ) : & ° Q S V



F. J y 1/2 & ° j ° 1/2 S \* Q j — S U j & V ( S \* ' U 1/2 ° Q S & ° U Q U °  
 of the exterior wall line of the home or a sufficient distance  
 S j S U U & \* ( ° ° ° 1/2 U & ° Q U U ) t Q ° j x S ° K

o. J y 1/2 j Q x W ° \* - y & S & ° U Q U ° S ( & ° j ° 1/2 S \* Q j (& t Q U ° S ( Q j (& S j \* ; 1/2 & \* S ( : S' Q K j ° ; & ° ; U S ° 1/2 U ; U j & ; (\* S X & ° Q j (&

l. u S V & ° j ° 1/2 S \* j & j ° j ° ) V S ( j — S U j & V F a ; ° ) ° ° Q S ( ( S ( ° \* U 1/2 V S & j & & : ° j ; S ( & ° j ° 1/2 S \* U ° Q S' S U ° & ° Q U ° j W t Q ° j x S ° K

c. b \* U ° & ° Q x W ° \* - y & U S & ° ) \* S' ° ; ' ° S V & ° S - S ( & ° - y & is 1" below the surface of the ground.

R. L ° Q x W & ° j ° 1/2 S \* S j ; ° - & S ( j — S U j & V S ° S U ( 1/3) the anchor length.

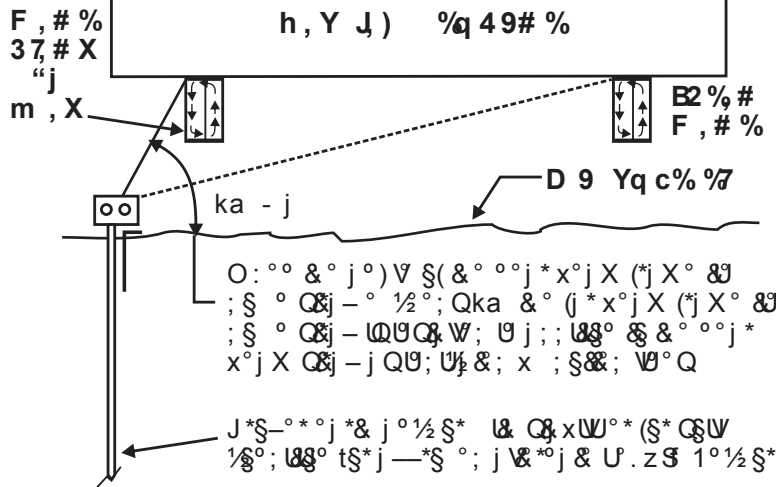
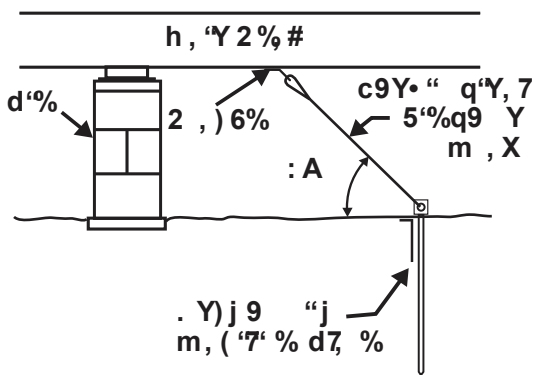
k. L ° Q x W & ° j ° 1/2 S \* S U Q ( W ; ° - & .

, J \* & ° Q S ° & ° j ° 1/2 S \* x - ' W U ) U - S & ° Q x W ° \* - y & . J ' W & ° j ° 1/2 S \* j — S U j & V U 1/2 X S \* ° : U U U U 1 S ° & 1/2 U & & ° - y & ' Q U ) & ° Q j - j ° ; S' ° S - x S U S X S ° & ° j ° 1/2 S \* : ° j ; .

**Fk. h G 5B 5z . w34 z k**

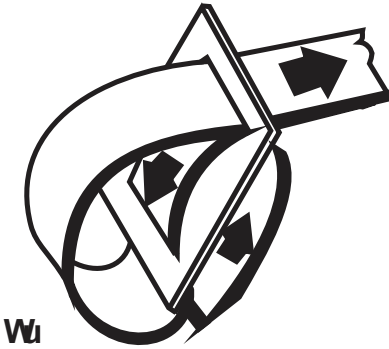
c, %, 7F, # %5°%59 . Y) j 9

c9Y° " q'Y, 7F, # %5°%59 . Y) j 9

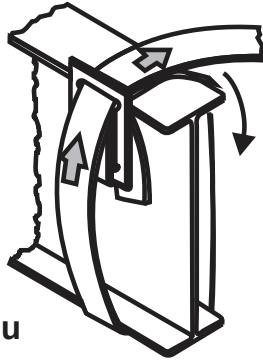


Fk. h G 5EG Bvm5. cc. 5E w Bvm5k ° 3 5E wm

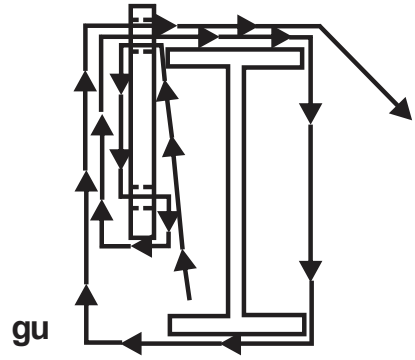
F , # %5°%K “j 2 ) 67%



Wu



ru



gu

Thread sufficient length of frame tie strap through buckle as shown.

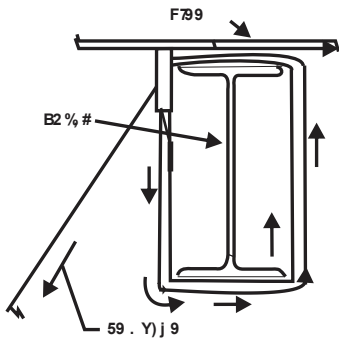
Next, thread long end of strap between frame and floor of home. Bring strap around frame and back through x' 1/2 V j QQ § ° U ; U ) \* j X j ° ; ( j Q & ° § j ° 1/2 § \* : ° j ; .

b U ) \* j X Q § U ) Q & j - U - § Q & ° j \* § ' ° ; (\* j X ° j ° ; & \* § ' ) : x' 1/2 V . L & U X - § \* & ° & § \* ° X § ° j W Q 1/2 (\* § X Q & X .

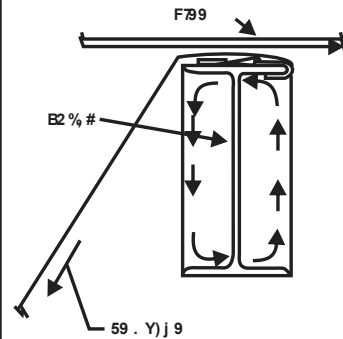
D § & h 9 Q § ( j Q ) V x' 1/2 V U j ° j - § - \* U & j V \* ° j & .

m Y ° 7 % m 9 2 ) 67 % K “ j m , X

F , # %5°%K “j 4996

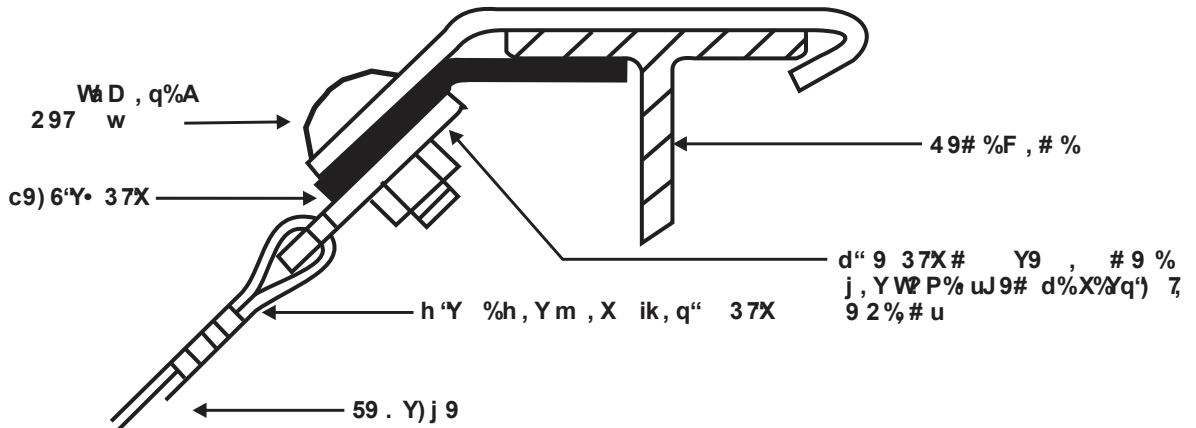


GY7 , ° q v ° % 9 J  
F , # %2 % #  
J V 1/2 x' 1/2 V j & § - § ( j ° 1/2 § \* Q j ° § ( x ° j X g - j Q Q & j - j \* § ' ° ; x ° j X j ° ; & \* § ' ) : x' 1/2 V . J j Q Q Q & j - x j 1/2 j \* § ' ° ; x ° j X j ° ; & \* § ' ) : x' 1/2 V § j ° 1/2 § \* . H & j - U \* j - x ° j X & U 2 . M ° X § ° j W Q 1/2 (\* § X Q & X .



GY7 , ° q v ° % 9 J  
F , # %2 % #  
1 & 1/2 m j X ° T V X - tu § § ' K inside top flange of home (\* j X ° . p \* U ) Q & j - j \* § ' ° ; (\* j X ° . J V 1/2 Q & j - x ° & ° ° ° (\* j X ° j ° ; : § X ° j Q Q § ° U Q ° & 1/2 . J ' W Q & j - & j : & j ° ; j & 1/2 § j ° 1/2 § \* & ° Q & ° : ° j ; .

cz 3 VBvD Fk. h G 3c. h d BB  
h h . Qg . mmGh 2 cGP ° wB





# GW-2 NU CONCEPT ANCHOR

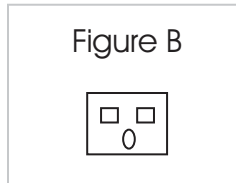
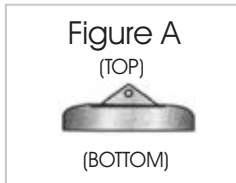
## INSTALLATION

CLASS 2+3

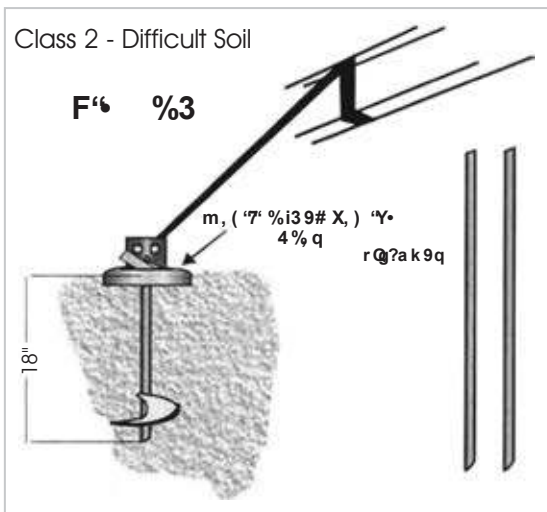
Patent # 6,871,455

The Nu-Concept GW-2 Anchor combines a patented elongated hole in the tension head with a stabilizing and compaction cap with drive rod guides. When combined with a grade 5 bolt, the anchor will rotate in all directions allowing adjustment to uneven terrain. Under load conditions the cap, rotates down ward in the direction of the pull, causing a double compaction of the soil and laterally restricts movement of anchor through the soil. Turn cap to position the drive rod guides facing away from the home. Insert 30" rods and drive to full depth into the soil.

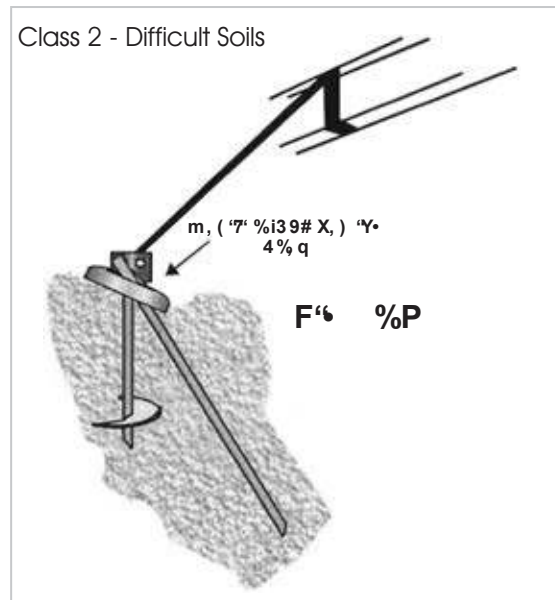
- I. Attach stabilizer/compaction cap to the tension head of the anchor. This is done by sliding the cap over the top of the tension head, aligning 9/32" holes in cap with 1/4" elongated hole in tension head. Insert 1/4" x 2-1/4", grade 5 bolt (included). Hand tighten. Cap must be installed at any time prior to ground contact. See Cap *Figure A* and Tension Head *Figure B*.



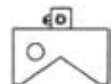
- II. The Drive Machine is started and the anchor is turned into the ground to a point where the bottom of the tension head is at or slightly below ground level. At this point the drive rod guides on the top of the cap should be slanted away from the outer wall of the home allowing the installer to drive the rods from the outside of the home. This insures maximum soil compression by the cap. See *Figure C*. Engineered to allow ground anchor to be installed at a slight back angle of 15°.

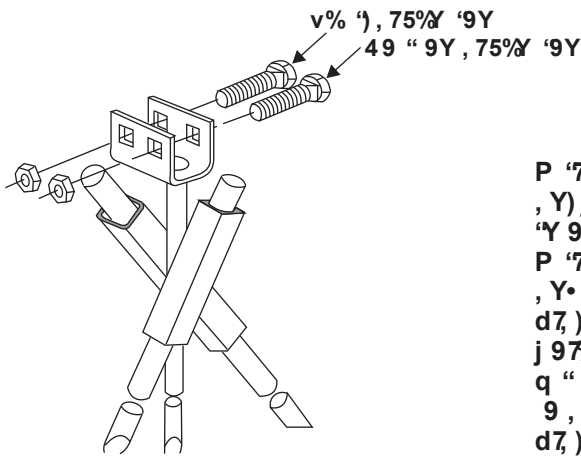


- III. Anchor is pre-loaded. Pre-load causes the cap to rotate downward in the direction of pull, further compacting the soil and presenting a larger surface area, resisting both horizontal and vertical movement. See *Figure D*. When used with rigid support tubes, rather than strap systems, pre-loading is not required.



Note: A special adapter is available to Insure against tension head and bolt damage.





B' , 7, '9Y  
 B' ) '9Y  
 J  
 3 9 P " %  
 k9)6 . Y)j 2

**Bvm5. cc. 5B w Bvm5k ° 3 5B wm**

P '77AiCa q"; # %%% j 97%AWr a q%/%Xs'Y) %Y % 9J  
 , Y)j 9 7), '9Ys.B X'79 quB' % X'79 q  
 'Y 9 j 97/u  
 P '77 9 Qgi: a q"; # %%% j 97% 'Y 9) 6, : Aq% %%  
 , Y• 7% s 'Y• , Y)j 9 j % q, , 79), 'Y• • 'q%u  
 d7) % 9q j 9 • j 9X9JfVC \* , % (%, Yq 'Y 9  
 j 97/uP " % 9q 9 q% " %q q%X j ufk 9q # (%  
 q " %Y 9 9) 6, 7% O?e 9J" 7%• j 'Y 9 q%  
 9, )j '%%# 'Y"# # , 79 , (7%X 79 % " , Y)%C  
 d7) % %9Yq 9q j 9 • j 9X9J #, 'Y• ( %u  
 P " % 9q 9 q% " %q q%X j 9 79) 6u  
 h, # # X 79 % " , Y) % " q% %79X%q j %Y  
 , Y)j 9 j % q " 79 , X9 ' (7%, Yq • 9 Yq  
 J) % " 97q 9) 6uP " , Y) % J 9# \* , % ('Y•  
 9 9) 6 J) % j 9 7q Y9 %) %/q Vau

**w% h 'Y %h , Y G'½Z9" 2 , ) %**

Bq% 7.B XX9 'Y• 'j 6 q99 , Yq 'Yq9 s  
 heavy pianos, fish tanks, or water beds.

EZ to install, one adjustable size fits most homes.

K '77 Y9 (%q BQ%# 9 X7' '# '9" 76%9 Q  
 "•% ) , Y q9u

2 , )% J9# j%• 9 Yq X 9 j% '# '9" .B  
 9Y•% , Yq # 9 % , (7% XX9 Yq% j%j 9# %u

**Bvm5. cc. 5B w Bvm5k ° 3 5B wm**

wz 5G| q

E B v

P: B

Joist Braces' maximum working load is 2,200 lbs.

F. b ° & \*XU° & ° \*UX %S%j ° j & j & ° ° ° ; Qx\*j 1/2).

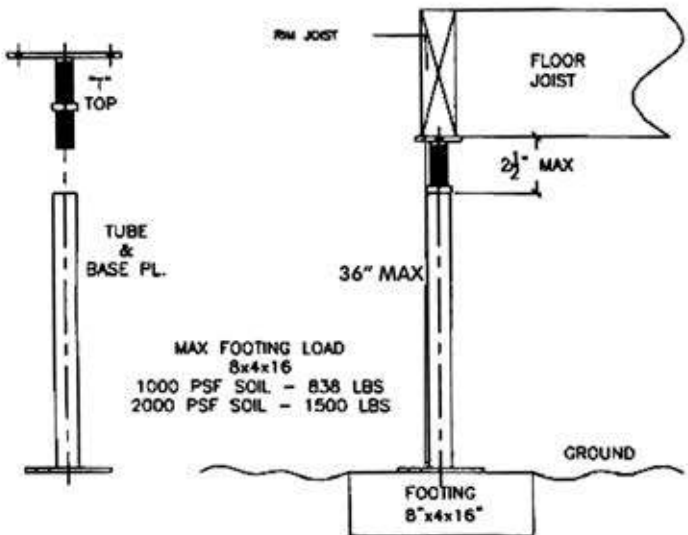
2. Remove turf to expose firm soil at each EZ Joist Brace  
 V½ 88°. n§§89) X' Q&x° V ° V; U' 1/2/ ' ° ; ° \* -SxVX  
 j ° j gj ° ; V½ & ; UQJ - ° \*UX° & \* 8 j V½ 1/2 j ° 1/2  
 (S\* Q U89) . n§§89) QX' Q&x° L 1/2X -V½ 1/2 & : SX°  
 Xj ° ' (j 1/2 ° \*gC& 1/2; ° QV½ V½; ° Qj ° ; (\*SQ&V°  
 )' U° V° Qj Q&° Xj j -V.

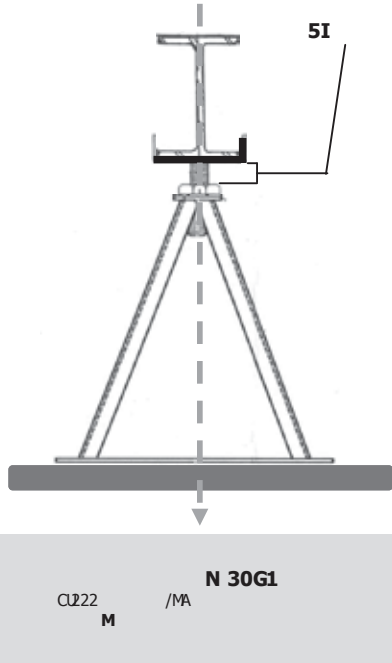
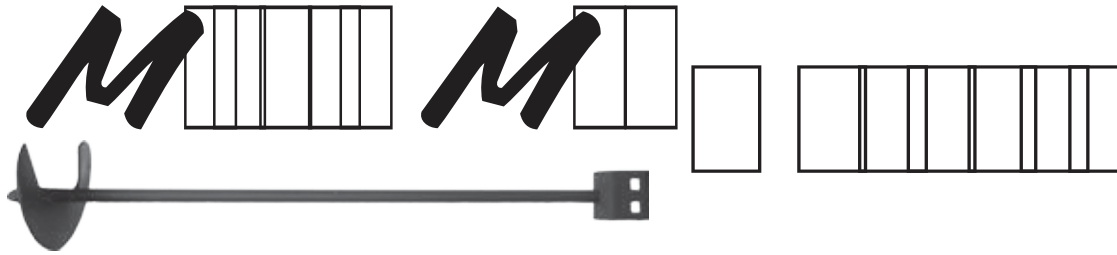
R - ° j Q ° ; U½ ° 1/2 (\*SX 8 - §( (§§89) 8 x§88X §( §U&  
 Square cut top of tube 1" less than measured distance.

o. P ° ° ' & § ° & ° j ; ° ; \* § ; ' - 8 P - V & . J V 1/2 P 8 -  
 L° 8 z f p\*j 1/2 Z§U&P x°.

c. T ° & \* z f Z§U&p\*j 1/2 ' ° ; ° \* & ° \*UX %S%j ° ; U & °  
 1/2 ° & \* §( (§§89) g' Q § ' V ° V8 x° Q ° & ° x\*j 1/2 U  
 ° \* 8 1/2 V

k. 1; ° Q&° ' & § ° P 8 - 8 j -V ; ° QV ; - ° QV ° 8  
 V ° V° \*UX %S%j ° H° 1/2 ° P 8 - 8 \*UX %S%j ° & l S5 Fa  
 nails or 2 - # 10" x 2" screws in holes provided.  
 5 j #, '# # , J%, q" # %Y ( % %Y j % 9X 9 J  
 5 9X X7, % , Yq 9X 9 J ( % " r "Y) j % u





### Foundation Pier Installation Instructions

( y y & ° U(S\*Xj 88° -\*S U°; L& j°; S° & ° Q (S° °; j 88° -U\*Qx° (S°° UQ& W). P: ° Xj°° (j 1& °; ° U&Q j Wx° UQ& W; j°; V ° V; x qualified contracting personnel who are trained and licensed by & ° ) S ° ° ° U) j ' & S\*U&. - U' & - j° nS° °; j 88° J U\*Qj ° ° °) U° ° °; S Q —S\*8S° (\*j X° Xj°° (j 1& °; j°; X S; ' Y\* : S X° Qj°; 1 S X X° \* 1/2 V X S; ' Y\* Q& 1& ° Q nS° °; j 88° -U\*Q j \* °; ° Q U) °; j°; & Q& ; S ° \* 8 1/2 V S j ; Q (S\* j Q —S\* & j 88) S( k g a a V Q t F - U \* K - U' & - j° nS° °; j 88° J U\*Q Q S' V x ° - Y 1/2 ; ; U' 1/2 ' °; ° \* X j U Q —S\* & (\*j X° Q t L S ° j X Q K b ° Q U) ° support configurations for pier loads, pier spacing, and live roof S j ; Q X' Q&x° 1 S ° Q Q& ° & L& ' ° L& X j °° (j 1& ° ° Q U Q& W 88° guidelines (instructions) and/or State and local regulations. tu 9 b T S ; ° J j \* & R N c . R a R g F a K

### Fz ° wP. 5B w mG5Q d dk z 3 GP° k Gm

F. P: ° (S° °; j 88° -U\* Q& Q L& ; S j ; \* ° ° U S ° X ° ° & j °; j \* ° S& \* 1 S X X ° °; °; (S\* ' Q L& U F g a a (° ° & S (j 1 S j Q U ° . 1 W - U \* Q X ' Q&x° j 88 1/2 °; S & ° L S ° j X Q L& j 1 S X - j 88 - U \* : ° j ; S - \* ° ° & S \* U S ° & V X S ° X ° ° &

l. M° (\* S ° ° L& X j °° (j 1& ° ° \* Q U Q& W 88° U Q& 1/2 S Q (S\* - S° ° \* V ° °) - \* S 1/2 ; ' ° ° Q x ° (S° ° U Q& W) (S° °; j 88° -U\* Q p y **being operated or while the unit is supported only on the jacks. Be sure to use sufficient jacks, safety cribbing and blocking to safely support the home before installing piers. Piers should never be installed individually under a unit. A complete**

**the piers. Failure to follow this step could result in serious injury or death.**

R b ° & \* X U ° & ° - U \* : ° U : & & j & W x ° x ° Q (S\* ° j 1/2 U ; U U ' j V - U \* 1/2 88° j °; U Q \* ° & j & & ° : ° U : & (\* S X & ° (S S & \* S & ° x S S X S (& ° 1/2 j Q U L S ° j X L ° S ) \* ° j & \* & j ° R a U 1/2 ° Q L ° Q \* ° & j & & ° - U \* : ° j ; Q j \* ° 1 S X - j 88 V S L S ° j X 1/2 j Q U S \* (S\* X j \*\* U) ° ° .

o. z j 1/2 - U \* X ' Q&x° Q —S\* & ; ' °; ° ° ° j & L& j 1 S X - j 88 V (S S & \* S ° j - \* ° - j \* °; V ° V surface. Design support configurations for pier loads, pier spacing, and live loads must be consistent with unit manufacturer's installation guidelines (instructions) and/or State and 1/2 V °) ' Y 88° Q t u 9 b T S ; ° J j \* & R N c . R a R g F a K

c. T ° ° & \* & ° - U \* S ° & ° (S S & \* . O : ° ° ° \* ° + ' U ; x V 1/2 V S ; ° g Q 1/2 ° ° & ° - U \* S & ° (S S & \* L& j —S\* U & (j Q& ° ° Q L ° ° S 1/2 Q Q S' V S' ° & °; & ° & \* ° j ; °; \* S ; S (& ° - U \* : ° j ; X S ° ° & j ° & S U 1/2 ° Q O : ° ° X S ° : ° U : & L ° ° °; °; g' Q & ° ° ° & & W \* Q U °; - U \* . T j \* ° ( W j U ° & ° Q —S\* & - U \* ' °; ° \* & ° 1/2 ° & \* S (1/2 j Q U X ° j X S \* X j \*\* U) ° ° j °; U Q& W& ° - U \* : ° j ; . P U : & ° j °; Q ' ) ° ' & - V Q S ° ° S j V & \* .

k. M° - j & & ° U Q& W 88° - \* S 1/2 Q L& ° j 1/2 - U \* . 2

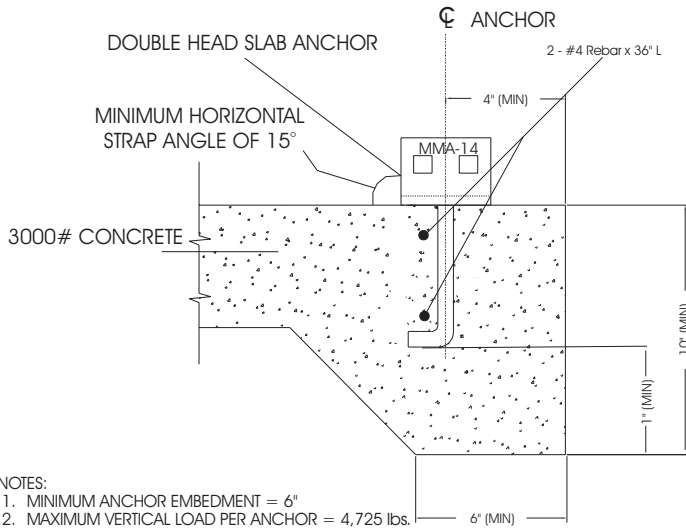
level the unit.

y y

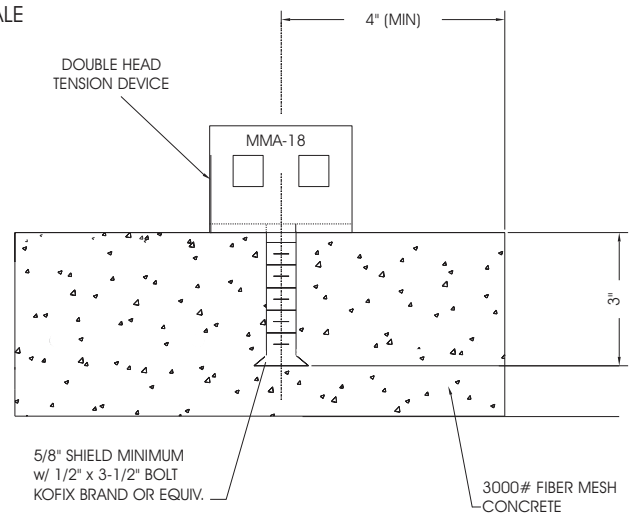
# 3z w3 k G5G . w3 4 z k Bvm5 . cc. 5B w Bvm5k ° 3 5B wm

I Fa J bu Tv DTMz Pz 1DTuv M

NOT TO SCALE



Pubu GH Tv DTMz Pz 1DTuv M



**NOTES:**

1. MINIMUM ANCHOR EMBEDMENT = 6"
2. MAXIMUM VERTICAL LOAD PER ANCHOR = 4,725 lbs. 3,150 lb. WORKING LOAD
3. MINIMUM SLAB PER ANCHOR:  
4" SLAB = 95 S.F.  
6" SLAB = 65 S.F.  
8" SLAB = 48 S.F.
4. MARK: MMA-14

1. MAXIMUM VERTICAL LOAD PER ANCHOR = 4,725 lbs. 3,150 lbs. WORKING LOAD.
2. MINIMUM SLAB AREA PER BOLT  
4" SLAB = 95 S.F.  
6" SLAB = 65 S.F.  
8" SLAB = 48 S.F.
3. MARK: MMA 18

**INSTALLATION NOTE**

1. DRILL 21/32" DIAM. HOLE 4" FROM EDGE OF SLAB AND INSERT SHIELD
2. PLACE TENSION HEAD ON SLAB AND INSTALL 1/2" DIAM. SHIELD BOLT

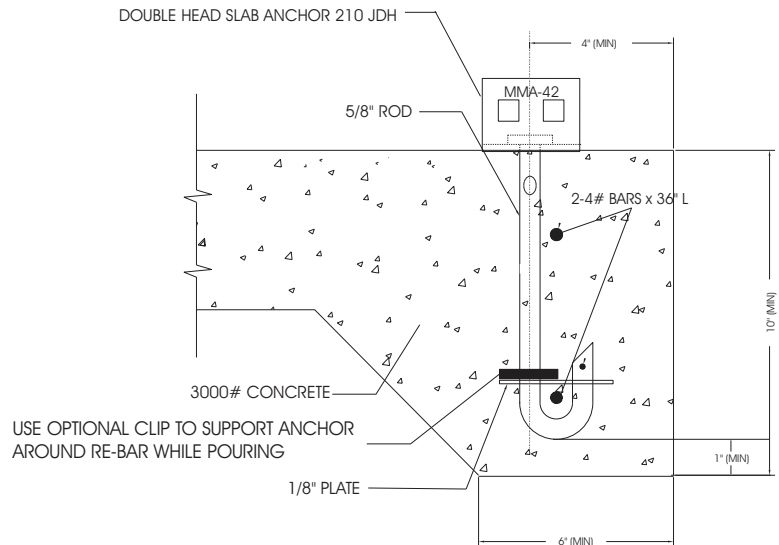


I Fa Z bu Tv DTMz Pz 1DTuv M

**NOTE:**

Your set must be designed by a Registered Professional Engineer if the location is within 1,500 feet of the coastline.

The allowable working load on concrete anchor models 210 PDH, THDHL, and 210 JDH is 3,150 pounds vertical for single or double ties in 3,000 PSI concrete. There must be a minimum 4" of distance from the edge of the concrete to the center of the anchor shaft.



1. MINIMUM ANCHOR EMBEDMENT = 6"
2. MAXIMUM LOAD PER ANCHOR = 4,725 lbs.
3. MINIMUM SLAB PER ANCHOR:  
4" SLAB = 95 S.F.  
6" SLAB = 65 S.F.  
8" SLAB = 48 S.F.
4. MARK: MMA 42

# Soil Classification and Bearing Capacity

R Nc.l al

Soil classification					
Classification	1HP- b l oN, aa S* b l oNn aa tU 1/2 S* j &; x *o (o*o 1/2 gQ° R Nc.oK	H S U, ° Q 1/2 U 88°	1 V 8 j x V Q S U X ° j * U ) - * Q Q * o t - Q K	p V 8 1/2 ° & 1HP- b F c N K S r	F S * + ' ° - * S X ° R j V ° ° t U 1/2 S - S ' ° ; Q S
F .....	AOgA JgHOgHJg A- gH- .	M S 1/2 S * : j * ; - j ° H j ° ; ) * j ° V j ° ; ) * j ° V ° * & j ° ; ° ° Q and/or cemented sands; coarse gravel/ 1/2 x x V Q C - * V S j ; ° ; Q V Q 1/2 Q j ° ; 1/2 S * j V	oaaan .....	oan	- S * ° & j ° cca.
R .....	ATgHTg- GgTG ....	H j ° ; g Q V Q ° ; C 1/2 ° Q ° ; C Q V ) * j ° V X ° ; U X ; ° ° Q 1/2 * Q Q ° ; C Q ° ; ) * j ° V ° ; ° * Q V Q ° ; 1/2 Q	Fcaa .....	l o R	R c F cca.
o1 .....	TAg- u l .....	Loose to medium dense sands; firm to stiff clays and silts; alluvial fills.	Faaa .....	FN I R	l , k Rca.
op .....	Tug- u l .....	Loose sands; firm clays; alluvial fills .....	Faaa .....	FI F,	F, c l , c.
c .....	v Gv ugJP .....	Uncompacted fill; peat; organic clays .....	M° (° S R N .l al t° K	a FF	G° Q Q & j ° F, c.

**D S & Qh**

F P ° j V ° Q - S U ° ; U & W 8 x V : j ° ° S & x ° ° j ; ° Q ; ( S \* S ° \* x \* ; ° ° - \* Q Q \* o g X x ° ; X ° ° & ; ° - & g j & \* & x V : ° U ; 8 S \* Q 8 V X ° & - S x V X Q

1 For soils classified as CH or MH, without either torque probe values or blow count test results, selected anchors must be rated for a 4B soil.

R P ° S \* + ° & Q - S x ° W j ; ° U 1/2 ( S \* X ° j Q \* U ) & S \* + ° j V ° S ( Q S U 8 j Q Q U 8 ° j V j 8 ) & ° : S V U ) 1/2 - j 1/2 S ( & ° Q S U 8 : U 1/2 & °

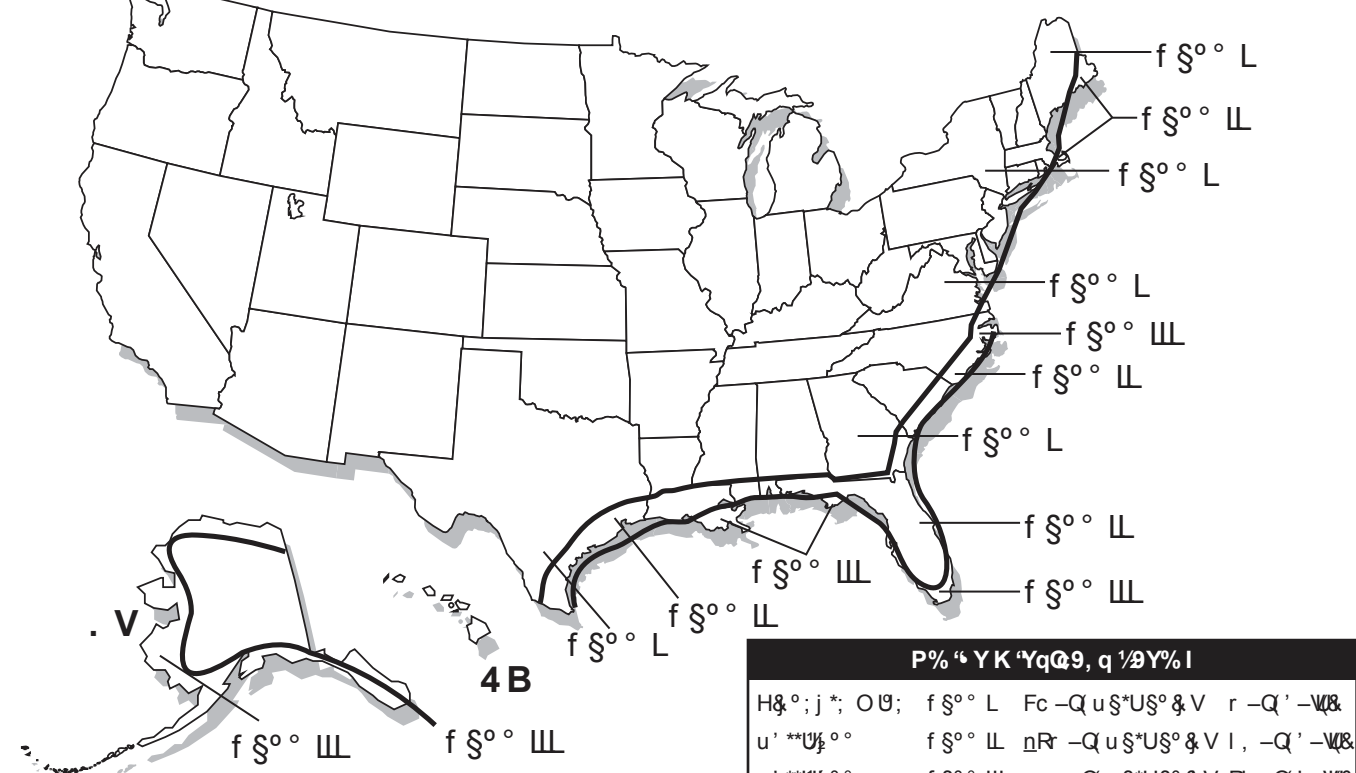
) \* S ' ° ; j ° 1/2 S \* W - Y 1/2 ; . P : Q j ( & X ' Q x ° S ( Q U x V V ° ) & ( S \* & ( ' W ; ° - & S ( & ) \* S ' ° ; j ° 1/2 S \* .

° P : S \* + ° j V ° W j X ° j Q \* S ( & ° S j ; \* Q Q 1/2 - S U ° ; x & ° Q S U : ° Q x ° 1/2 S & ° \* U ) S \* & W 8 ) ( S \* 1/2 S ( & - \* S x ° .

(f) If soil appears to be composed of peat, organic clays, or uncompacted fill, or appears to have unusual conditions, a registered professional geologist, registered professional engineer, or registered architect must determine the soil classification and maximum soil bearing capacity.

H S ' \* 1/2 h - j ° ( j 1/2 \* ° ; u S X ° T S ° Q 1/2 88 ° j ° ; H j ( ° & H 8 ° ; j \* ; Q S J j \* R Nc.l al

**P G m D w K B v P Q z . P 1/2 w G m l**



Source: Manufactured Home Construction and Safety Standards- Part 3280.305

D S & h - Q h - S ' ° ; Q - ° \* Q \* j \* ° ( S S &

P

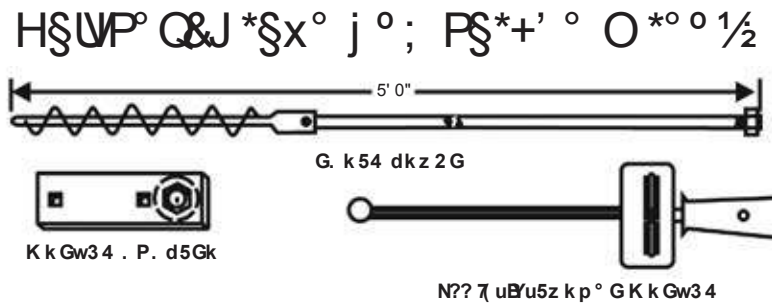
Soil test probe the anchor location in order to match the soil classification with the proper anchor.

# Soil Classification Chart

(§\* - 0' & - j ° 1°½ §\*Q

m9'73 7,	59 * %d 9 (%v, 7 %	k%) 9# # %q%q h 'Y %h, Y. Y) j 9 m, ( '7' %			
<b>W</b>	D1	T*§QQb *U° §* M§½ 1°½ §*			
<b>r</b>	ccF L°½ J§' °; Q9-	ooRa bu ooRa z f bu 12" Stabilizer Plate	okRk bu okRk z f bu	kRk bu kRk z f bu	ooCa bu AOS Nu-Concept Stabilizer Cap
<b>g</b>	RcF § cca L°½ J§' °; Q	ooRa bu ooRa z f bu 12" Stabilizer Plate	okRk bu okRk z f bu	kRk bu kRk z f bu	ooCa bu AOS Nu-Concept Stabilizer Cap
<b>:.</b>	l , k § Rca L°½ J§' °; Q	okRk bu 4636 EZDH	ooCa bu 12" Stabilizer Plate	kCa bu 17" Stabilizer Plate	
<b>:2</b>	F, c § l , c L°½ J§' °; Q	, ka bu 17" Stabilizer Plate	Nka bu	Faka bu	
<b>A</b>	G° QQP: j ° F, c L°½ J§' °; Q	Tj W- 0' & - j ° 1°½ §*Q Naa§RNS l , ,			

Each state, county, municipality may require a specific anchor from the groups shown for each soil classification. T: °½ §½ V°) ' §§° Qx° (S° ° UQ, W§§°. P° Q§V & §V-§x° j°; §\*+° ° °½ j &&° j °½ §\* §½ §§° U §\*; ° § Xj & & ° -§-° j °½ §\* & §V soil classification. A stabilizer plate or certified stabilizing device must be used with DH anchors when the anchors are used to ° QQV & \*j V§; Q



**K, Y°Y·l v**  
around the home will not be close to any underground utilities. Failure to determine the location of electrical lines may result in serious personal injury.

- BY ) '9Y**
- Place tip of probe into ground where the anchor is to be located. Using a 15/16" hex socket with a \*j &½ & x° j' ° \* xj \*g§° V½ U½; \*U° Xj ½ 0° g& ° §V-§x° U j ½ §½ W ; U° ½ §°.
  - M§§ & -§x° U § & §V § j ; °- & °+ j V § & ° V°) & §( & ° °½ X X°°; °; j °½ §\* § x° U Q, W; .
  - To determine the soil classification:  
 j KJ V½ ° °½ j ; j - & §° § §\*+° ° °½.  
 xKL° Q \* & ° - §§° §( ° °½ j ; j - & §° § & ° §- §( & ° - §x°.  
 ½KH' - § & - §x° Q j ( & l §° : j°; : V & \* 0) & ° - §x° Q j ; V l & ° §\*+° ° °½.  
**X Hi R**  
 ; KM° j ; §\*+° j V° : V & \* 0) §\*+° ° °½ j°; - §x° ½ §½ W .  
 e) Use Minute Man Anchors' Soil Classification Chart to cross reference probe readings and match &° j °½ §\* X §; ° V l & ° - §-° §V ½ Q j &&° Q §.

F979 "Y. " , 7' 9Jh"Y %h, Y. Y)j 9 "j , Y, 79 , (7% 9 6"Y• 79, q %8 , 7 9 9  
 %) %q"Y• gsMA? 7 u, Yq, %), X, (7%9J "j , Yq"Y• , A?e 9 %79, qf: s+rA7 u 9 , 7u  
 m, ('7' % q% ' )% # (% %q "j , Y)j 9 j %Y, Y)j 9 , % %q 9 %"  
 j 9 " 9Y , 7J9 )% u4° P d, grO?uA?NFJC



B Gh b	h . k V	h z P Gc	P Gmß k B 5 B w	° m G B v mz B 5/ d G
V?HW W?W	h h . Q h h . Q	NA?Q4 AiOa NA?Q4 gi:	Na P B rß sA?a . w3 4 z k Na P B rß sA?a . w3 4 z k	r sgs f, C r sgs f, C
WjW	h h . Q O	NgNQ4 gi:	Na P B rß sgNa . w3 4 z k	r sg
W : W W HW	h h . Q? h h . QN	:: g?Q4 AiO :: g?Q4 gi:	Pz ° 2 cG : a P B rß sg?a . w3 4 z k Pz ° 2 cG : a P B rß sg?a . w3 4 z k	r sg r sg
Wj: R WjA? WjR?	h h . Q A h h . Q h h . Q k	gNQ P4 : OQ P4 r : 2 .	gNa 3 k z mmPk B G . w3 4 z k : Oa 3 k z mmPk B G . w3 4 z k 2 . k2 kz 3 V . w3 4 z k	W W W
W CH W CO W RW	h h . Q N h h . Q W h h . Q A	ON?Q4 gi: W?N?Q4 gi: HN?Q4 gi:	Oa P B rß sN?a . w3 4 z k W?a P B rß sN?a . w3 4 z k Ha P B rß sN?a . w3 4 z k	: f( CfF7, uC : f( C r sgs f, & f( C
Wj: N	h h . Q r	: NgNQ4 gi:	: a Na P B rß sgNa . w3 4 z k	r sgs f, C
W Q	h h . Q A	:: A?Q4 gi:	Pz ° 2 cG : a P B rß sA?a . w3 4 z k	r sgs f, C
WAR WARg WAR WAR N	h h . Q r h h . Q r g h h . Q r h h . Q r N	:: g?Q5/P4 gi: : NgNQ5/P4 gi: NgNQ5/P4 gi: NA?Q5/P4 gi:	Pz ° 2 cG : a P B rß sg?a G½. w3 4 z k : a P B rß sNa P B rß sgNa G½. w3 4 z k Na P B rß sgNa G½. w3 4 z k Na P B rß sA?a G½. w3 4 z k	r sg r sgs r sg r sg
rgR? rgRW	h h . Q V D h h . Q V D	54 P4 54 P4 cm	Pz ° 2 cG 4 G. P 5 Gwm B w P G v B G P4 5 Gwm B w P G v B G K ic. D	mc. 2 mc. 2
W A? W : A	h h . Q V h h . Q r	r W?Q P4 r W?Q P4	K G5 3 z w3 k G5 G. w3 4 z k mK B Gc 4 G. P K G5 3 z w3 k G5 G. w3 4 z k	mc. 2 mc. 2
Wjrr	h h .	DK Q Qv3 W	D K r mz B . w3 4 z k	r sg
rr?? rr?r rrWW	h h . Q Pr. h h . Q Pr w 3 W		m5. 2 B B/Gk QW a m5. 2 B B/Gk QW a w° 3 z w3 Gd5 m5. 2 B B/Gk 3 . d	r sgs f, C Fc. ur sgs f, & f( C r sg
rNRW rOr? rOr rH?? rO?W rH?: rH?N rH?R r?W?	h h . Q R h h . Q W h h . Q: h h . Q r h h . Q g h h . Q W h h . Q M G h h . Q M G h h .	F3 B K im Fk. h G 5 B G Fk. h G 5 B G 2° 3 iK m F3 B fcz 3 V B v D C 3 5 iK m 3 5 iK m 3 5 iK m m2 w	Fk. h G 3 c. h d B K im5k. d cz w D B ° P B v. c Fk. h G 5 B G Q 2 z c5 cz w D B ° P B v. c Fk. h G 5 B G Q 2 z c5 2° 3 V c G K im5k. d cz 3 V B v D Fk. h G 3 c. h d B B 3 z k w Gk 5 B G K im5k. d 3 z k w Gk 5 B G K im5k. d 3 z k w Gk 5 B G K i k G D um5k. d m5k. d 2 z c5 w° 5	Fc. u





**ROD M. HUDGINS, JR. P.E.**  
**P.O. BOX 5070**  
**ASHEVILLE, N.C. 28813-5070**

- j Fa gl al F MS; - . u ' ; ) U Q G Z\* . J.z. J\*U'1/2V

- U' & - j ° 1° 1/2 S\*Q  
 Rac O ° Q&U) H& ° ° &  
 zj Q&ny & M& 1/2 gDT I N, I k

b ° j \* H U g  
 V: j ° j ° j V ° ; ; ° Q U ° ; \* j U ) Q g - : Q U 1/2 V & Q&U) \* ° - S \* Q g j ° ; U Q G W & S ° U Q& 1/2 S ° Q (S \* & °  
 - U' & - j ° 1° 1/2 S\* - \* S ; ' 1/2 Q V Q& ; j Q (S V& Q n

650 5/8 DH	4636 3/4 DH	Pub u	Pivot Clip W/S
650 3/4 DH	4636 3/4 EZDH	Pub u GH	FCII W/S
760 3/4 DH	4430 3/4 EZDH	I Fa Z bu	BUC W/S
636 5/8 DH	4430 3/4 EZDH	I Fa J bu	- - 1 Hb I
636 3/4 DH	636 3/4 EZDH	# bu	- - 1 Hb I 1
4450 3/4 DH	650 3/4 EZDH	l o p 1	- - 1 H t H ° j W
4430 5/8 DH	660 3/4 EZDH	Rk # bu	Hp D tp S V&e D' & K
4430 3/4 DH	AO I DTI	o N # bu	DT I t H& x. 1/2 - K

CT W/S Corner Tie MMA 71 & MMA 71C Longitudinal Frame Tie MMA 31 & 34  
 Gp H Q& ° ) & ; U j Ve G & \* j V p \* j 1/2 ) H Q& X G S 1/2 U) m T L - - 1 RR  
 1 Q : j V& 1° 1/2 S\* Rk # bu S S\* U) V& j ; F g n a v Q I p S V& J ° \* U ° & \* m j X ° T Y X -

My analysis of the physical test reports defines the breaking strength of each of these anchors and their component to be in excess of 4,725 pounds. The strapping meets federal specifications BB S S N Fu (S\* P - ° F 1/2 Q Q p g A \* j ; ° F Q& j - U) . P : ° Q& j - U) j V& S X ° ° Q & 1 DH L I c . F standards and ASTM D3953-91 standards. The galvanized steel strapping is 1 1/4" x .035 minimum.

On file are testing reports of direct withdrawal strength of these anchors. These tests evaluate & ° j ° 1/2 S\* j ) ° Q& ° ° ) & S ( - U' & - j ° 1° 1/2 S\* Q U Q& W ; \* ° Q Q&U) j ° j U V j ° ; o c S ° ) \* ° ° j ° ) V j - U ; & ; \* j j V& j ; . n S \* & ° j ° 1/2 S\* Q V Q& ; S ° - j ) ° Q Fa j ° ; F F g & ° j ° \* j ) ° : S V U ) - S ° \* meets and / or exceeds the required minimum of 4,725 pounds when installed in accordance with X j ° ' ( j 1/2 \* ° U Q& 1/2 S ° Q U & ° Q S V& - ° j ° ; 1/2 Q Q S ° .

P : ° G p H p \* j 1/2 ) H Q& X j Q& Q& ; (S\* O U ; f S ° ° Q V V&e W



**c B n 5 B v D 5 G m 5 B v D P B v B n 2 w**

dkz P° 3 5 l 3 z w 3 k G 5 G s k z 3 V s . w P n z B D k z ° w P . w 3 4 z k m

LQ Q ° ; h Z j ° . l a F o  
M' L Q Q ° ; h Z j ° . l a l R

h . w ° F . 3 5 ° k G k l h ' Y % h , Y . Y ) j 9  
Rac O . 4 U ) H &  
z j C & m Y & M S ½ g D T I N , l k

H' x ° ½ & S M' ° ° j W  
Z j ° j \* l a l R

dc . w 5 cz 3 . 5 B z w l Rac O . 4 U ) H &  
z j C & m Y & M S ½ g D T I N , l k

. ddc B . 5 B z w l 4 ° P 3 9 q % h , Y J ) % q 4 9 # % s h 9 q 7 , 4 9 # % , Y q B r q " ; 7 ' % q 3 9 # # % ) " ; 7 m ) %

**W u B v 5 k z P ° 3 5 B w**

1 & & ° \* + ° C & S ( - U ' & - j ° 1 ° ½ S \* Q M 1 b T v : j Q ° j X U ° ; & °  
- U ' & - j ° A \* S ' ° ; 1 ° ½ S \* ; ° Q ) ° ° ; & ° - S U ° Q — S \* & S \* u 9 b T S ; °  
- j ° ' ( j ½ \* ° ; u S X ° Q - S ; ' Y \* u S X ° Q j ° ; l ° ; ' C & W U ° ; T S X X ° \* ½ U  
H & ½ \* ° Q ( S \* j ' U Q S U x ° j \* U ) ½ - j ½ B Q

o.l P : ° + j V & j ° ; - \* S ½ Q Q S & S V Q C & X ' Q ; U & ° X j ° ' ( j ½ \* °  
: j Q x ° ° Q x X U & ; & M 1 b T v . 1 ° j ; ° + j & X ° & S ; S ( & j ½ j x U & U X j U & U ° ; x & ° X j ° ' ( j ½ \* ° . 1 ( S V S S -  
+ j V & j Q Q j ° ½ j ' ; U - \* S ) j X U X j U & U ° ; x M 1 b T v .

**r u P G m 6 k B 5 B w**

There are two categories of ground anchors that are specified in this listing. The first group is soil ground anchors, which pertain to all j ° ½ S \* Q ; ° Q ) j & ; ( S \* C S U W / Q Q l g R g o j ° ; c . P : ° Q ½ S ° ; ) \* S ' - U \* S ½ j ° ; ½ ° ½ \* & t ° S ° S S U K ) \* S ' ° ; j ° ½ S \* Q : U ½ j \* ° ; ° Q ) ° ° ; ( S \* U Q j W S S ° U & ½ Y Q Q F ½ S ° ; U S ° Q

**A u k G 3 z h h G w P . 5 B w m**

k . P 3 z % 9 # # % % q j , h ' Y % h , Y . Y ) j 9 • 9 Y q , Y ) j 9  
( % ) % X % q B % " j 4 ° P ) 9 q # , Y J ) % q j 9 # % s # 9 q 7  
j 9 # % s ' Y q " ; 7 ' % q ) 9 # # % ) ; 7 ) % ' Y % ° Y % % %  
B Y q , ' 9 Y % # X 9 ' q % q j , l

1 W - U ' & - j ° A \* S ' ° ; 1 ° ½ S \* Q j \* ° X j ° ' ( j ½ \* ° ; ' U ) C & V U  
½ S ° ( S \* X j ° ½ U 1 H P - 1 S R k . P : ° X S ; ° U ° ° ; \* & U W U S ) j \* U  
\* ° Q - ½ & Q j ( & ; U X ° & ° g ° X x ° \* j ° ; U ½ S S ° S ( : ° W ° Q U V ° ) & S ( Q j ( & j ° ; C & x U W \* \* ; ° U ½ . F j x V F Q S Q j ½ X - V & ; ° Q U S S ° S ( ° j ½ ) \* S ' ° ; j ° ½ S \* X S ; ° U j Q ° W j Q j ½ \* ° Q - S ° ; U ) C & x U W \* \* ; ° U ½ .

c.F z j ½ ) \* S ' ° ; j ° ½ S \* U W x ° X j \* ° ; U j Y x ° U j ( j ½ X U V  
of which is shown in figure 1. The label for each facility  
; ° S & Q & ° X S ; ° V ° ' X x ° g M 1 b T v ° j X ° j ° ;  
G U S ) 5 F R o o .

1 W ) \* S ' ° ; j ° ½ S \* Q : j ° j X U U X ' X S \* U ) S j ; S ( R f C a V Q j ° ; j  
X U U X ' X ' U X j & S j ; S ( o g l c V Q

c.l 1 W - \* S ; ' ½ Q j \* ° - \* S ; ' ½ ; S ° V j & & ° ( j ½ U & \* ° ( \* ° ½ ;  
U & U W U S ) .

**g u B m 5 . c c . 5 B w**

P : ° j — U ½ S S ° S ( - U ' & - j ° A \* S ' ° ; 1 ° ½ S \* Q U ( S \* Q ° S ° u 9 b ½ S ° ;  
X j ° ' ( j ½ \* ° ; : S X ° Q j S ; ' Y \* : S X ° Q j ° ; U ; ' C & W U ° ; ½ X X ° \* ½ U  
C & ½ \* ° Q U ° ° ) U ° ° ° ; ( S ' ; j S S ° Q C & X Q . P : ° Q C & X Q j W x °  
U Q W ; U j ½ S ; j ° ½ U & ° X j ° ' ( j ½ \* ° Q U C & W S S ° U C & ½ S ° Q  
j ° ; & ° \* + U X ° ° Q S ( & U W U S ) ( S \* X j U X ' X C S U W / j ½ B Q j Q  
\* + U ; x Q ½ S S ° l o T m M R N c . l a l S ( & ° u 9 b H & ° ; j \* ; Q ( S \*  
- j ° ' ( j ½ \* ° ; u S ' C ) g I M T 1 — ° ; U z g H ° ½ S S ° Q 1 z c a l g 1 z k a F g  
1 z k a l g 1 z k a o j ° ; 1 z k a c g & ° l p T l a F c j ° ; l a F N ( S \* ½ X X ° \* ½ U  
' Q j ° ; Q ½ S S ° F N a k . l . H S U p ° j \* U ) d j V ° Q v & \* ° j — U ½ x V  
z ° ) U ° ° ° ; T S ° ° ° ½ S S ° Q ( S \* - S ; ' Y \* j ° ; l ° ; ' C & W U ° ; p ' U U )  
Systems which will not exceed the product designs and/or the local  
\* U U S S ° \* + U X ° ° Q

c.R P : ° B ' j V & ½ S S V - \* S ½ ; ' \* ° Q j \* ° X j U & U ° ; x & °  
X j ° ' ( j ½ \* U ) ( j ½ U & j Q Q x X U & ; .

c.o P : ° X j ° ' ( j ½ \* U ) j ' ; U Q C & X S ( M 1 b T v U X j U & U ° ; .

c.c 1 W - \* S ; ' ½ Q j \* ° U Q W ; - \* & ° X j ° ' ( j ½ \* ° Q U C & W S S °  
U C & ½ S S ° Q j ° ; Q ½ S S ° R S ( & U W U S ) .

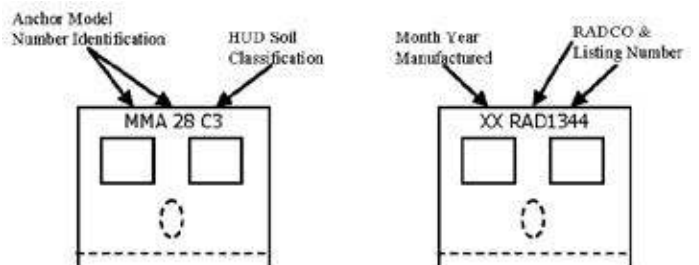
P : ° l ° C & W S S ° S ( & ° ) \* S ' ° ; j ° ½ S \* Q U C & x ° U j ½ S ; j ° ½ U & °  
- j ° ' ( j ½ \* ° Q l ° C & W S S ° l ° C & ½ S S ° Q l ° j ; ; U S S ° g ° j ½ j ° ½ S \* X ' C &  
x ° U C & W ; U j ½ S ; j ° ½ U & ° ( S V S U ) h

**N u . d d k z v . c**

P : U W U S ) U Q x ° ½ & S j — S j V S ° j ° j ° ° j V x Q U x M 1 b T v .

All products shall be identified as follows:

m l j ' \* ° F h H j X - V G x ° V



j K P : ° - \* S - \* C S U W / Q Q t F j x V Q l e R g j ° ; ° S & Q K  
x K - U U X ' X j ° ) V S ( - ' W & & ° : S \* U S ° & V t F j x V Q l e R K

**: u G v B G w 3 G m f 2 h 5 B P**

o.F P ° Q S ) : j Q x ° ° ° ½ S ; ' ½ ; & ° \* U & ° ½ X - U ½ S ( -  
- U ' & - j ° ) \* S ' ° ; j ° ½ S \* Q & ° M 1 b T v G U S )  
M \* + U X ° ° Q ( S \* A \* S ' ° ; 1 ° ½ S \* Q

5, ( 7%W d 9X% '9 JD 9 Yq . Y) j 9

h 9q%7	m j , J P ; # %%	m j , J c %Y• j f'YC	4 %7"	h 'Y'# # m, ( '7' % P% ) %m%w9 %rC
-- 1\$ kca bu	5/8"	oN	1 / 6" dia	12" plate
-- 1\$ kca bu	3/4"	oN	1 / 6" dia	12" plate
-- 1\$ ooRa bu	3/4"	Ra	2 / 4" dia	12" plate
-- 1\$ NkRk bu	3/4"	RR	1 / 6" dia	12" plate
-- 1\$ Ra ooRa bu	5/8"	Ra	2 / 4" dia	12" plate
-- 1\$ l okRk bu	3/4"	RR	1 / 4" & 1 / 6" dia	12" plate
-- 1\$ c ooca bu	3/4"	oN	2 / 4" dia	12" plate
-- 1\$ F Faka bu	3/4"	ka	1 / 10" dia	12" plate
-- 1\$ c , ka bu	3/4"	ka	1 / 7" dia	17" plate
-- 1\$ c Nka bu	3/4"	ka	1 / 8" dia	17" plate
-- 1\$ l ooRa z f bu	3/4"	Ra	2 / 4" dia	6" cap
-- 1\$ RokRk z f bu	3/4"	RR	1 / 4" & 1 / 6" dia	6" cap
-- 1\$ o kRk z f bu	3/4"	RR	1 / 6" dia	6" cap
-- 1\$ k kca z f bu	3/4"	oN	1 / 6" dia	6" cap
-- 1\$ AOI D9	3/4"	l a	1 / 4" dia	tH° ° § & RK
-- 1\$ NoN#bu	3/4"	oN	° § ° °	X drive (48" rods)
-- 1\$ Fo J bu	5/8"	Fa	° § ° °	° § ° °
-- 1\$ l H Z bu	5/8"	k	° § ° °	° § ° °
-- 1\$ Rc Rk # bu	3/4"	Ra	° § ° °	X drive (30" rods)
-- 1\$ Rc QRk # bu	3/4"	Ra	° § ° °	X drive (30" rods)
-- 1\$ FN Pubu	5/8"	Rc	° § ° °	° § ° °

5, ( 7%r l m9'7. Y) j 9 k % " % # % Y

h 9q%7	h 'Y'# # n9'737 f m %w9 %VC	h 'Yu. Y• 7%9Jd 77 9 49 " 9Y , 7
-- 1\$ kca bu	oj	oc ; ° )
-- 1\$ kca bu	oj	oc ; ° )
-- 1\$ ooRa bu	oj	oc ; ° )
-- 1\$ NkRk bu	R	oc ; ° )
-- 1\$ Ra ooRa bu	R	oc ; ° )
-- 1\$ l okRk bu	oj	oc ; ° )
-- 1\$ c ooca bu	oj	oc ; ° )
-- 1\$ F Faka bu	ox	oc ; ° )
-- 1\$ c , ka bu	ox	oN ; ° )
-- 1\$ c Nka bu	ox	ok ; ° )
-- 1\$ l ooRa z f bu	R	oc ; ° )
-- 1\$ RokRk z f bu	oj	oc ; ° )
-- 1\$ o kRk z f bu	R	° § ° ° V
-- 1\$ k kca z f bu	R	° § ° ° V
-- 1\$ AOI D9	R	oc ; ° )

5, ( 7%g l k 9) 6i39Y) %%. Y) j 9 m9'737, Vck % " % # % Y

h 9q%7	h , 5% c9, q f l C	h 'Yu. Y• 7%9Jd 77 f j 9 " l C
-- 1\$ NoN#bu	Fagaa	° § ° ° V
-- 1\$ Fo J bu	cgaa	oc ; ° )
-- 1\$ l Z bu	cgaa	oc ; ° )
-- 1\$ Rc Rk # bu	og l c	oc ; ° )
-- 1\$ Rc QRk # bu	og l c	oc ; ° )
-- 1\$ FN Pubu	cgaa	oc ; ° )

D& Fh H° l o TmM Jj \* & R Nc - § ; ° V- j ° ( j 1/2 \* ° ; u § X ° Installation Standards, section 202: Soil Classification and p ° j \* ° ) T j - j 1/2 e P j x v R Nc. l a l ( § \* j ° ° - Y ° j § § ° § ( § § classification numbers. Please note that anchors approved for ' Q ° U § § V 1/4 ° Q o X j x ° ' Q ; U § § V 1/4 ° Q R § \* l g j ° ; j ° 1/2 § \* Q j — § ° ; ( § \* ' Q ° U § § V 1/4 ° Q R X j x ° ' Q ; U § § V 1/4 ° Q l .

Note 2: The stabilizer plates are available in 12" or 17" width. The stabilizer caps are 6" diameter. "X drive" refers to cross- ; \* U ° ° j ° 1/2 § \* Q : U 1/2 ' & § § ; Q j ° ) V ; j & oc ; ° ) \* ° ° Q ( § X & ° ° § § V

Note 3: Anchor model MMA-GW2NU has a 6" stabilizer cap as well as a 32" long stabilizer rod which is driven through the Q § x U ° ° 1/2 - j ° ; ; § ° j \* ; j & oc ; ° ) \* ° ° Q ( § X & ° : § \* U § § & V



5 "Y" 39Y 7 "Y" B) u  
q(, uk. P3z u

FNa, F - & Oj Q U) & H&g  
mS' ° & U dj W gT1  
r l , aN

P Wtckl Kl , l S l RF  
nj htckl Kcl r S cFR

c Bn5 BvD  
k. PbWgA?

c Bn5 BvD 5 Gm5 BvD P Bv Bn2 w

dkz P° 35l

h. w° F. 35° k GP 4z ° mBvD m° d dz k5 d Bgk m

LQ° ; hZ° . l aFo  
M° LQ° ; hZ° . l a l

h. w° F. 35° k Gkl

h "Y %h, Y. Y) j 9  
Rac O. 4 U) H&  
zj Q&my &MS 1/2 gDT l N, l k

H' x° 1/2 M° ° j W  
Z° ° j \* l a l R

dc. w5 cz 3. 5 B w l

Rac O. 4 U) H&  
zj Q&my &MS 1/2 gDT l N, l k

. ddc B. 5 B w l

4° P 39q%h, Y J) %q 49# % sh 9q 7, 49# % s, Yq Bq " , 7' %q 39# # %) ; 7m ) %

Wu Bv5kz P° 35 B w

1&& ° \* + ° Q&S(- U' & - j ° 1° 1/2 S° Q M1bTv : j Q° j X U° ; Q° V  
-U° Q ; ° Q) ° ° ; & - S U° Q - S \* & (S\* u9b T S ; ° - j ° (j 1/2 ° ;  
u S X ° Q - S ; ' Y \* u S X ° Q j ° ; l ; ' Q&W ; T S X X ° \* 1/4 V H & 1/2 ° Q

r u P Gm3 k B 5 B w

P : ° Q° ; j \* ; Q° V - U° Q : j ° j ; ' Q& ° ° & (S\* - Y 1/2 X ° ° & ° ; ° \* & °  
V°) & ; U j V S ° j X Q S (& ° X j ° (j 1/2 ° ; : S X ° Q X S ; ' Y \* S \* 1/2 X X ° \* 1/4 V  
°) ° ° ° ; Q° 1/2 ° Q & j & j °) ° ° ° \* 1/2 V : ° U : & S X N S Ra U 1/2 ° Q  
U l S 1/2 U 1/2 X ° ° & H & ° V U ° Q & ° \* 1/2 V : ° U : & ° & ° ° ° l l j ° ;  
30 inches are reinforced with four (4) 14 Gauge (44 in) x 1 1/4" wide  
Q° V Q& - Q & & ° - ° \* ° ; ) ° S (& ° Q& - V 1/2 & ; j X U X ' X F F  
U 1/2 ° Q (S X & ° Q - S (& ° - U \* : ° j ; . P : ° - U \* Q : j ° (S \* V) Q  
1/2 ° Q 1/2 ; S (F 3 1/2 U° ra S °) ° ° j °) V Q° V & j ° j ° \* j °  
& U 2 ° Q S (a.FR U 1/2 ° Q 1 W - U \* Q : j ° j \* j & ; S \* U) V j ; S (k g a a  
- S ° ; Q : U : 1/2 W j Q ; S° j X U X ' X ' V X j & V j ; S (F N g a a - S ° ; Q  
P : ° V) Q j ° \* 1/2 ° ° 1/2 ; & Q° V x j Q - Y & Q U Q 1 W 1/2 X - S ° ° Q S (&  
& ° - U \* j ° ° Q x ° ° V ; g ° 1/2 - & (S \* & ° j ; ' Q x V - U \* : ° j ; . H & ° V  
1/2 ° (S X Q Q 1 HP - 1 FRk.

gu Bvm5. cc. 5 B w

P : ° j - W 1/2 Q S (Q° ; j \* ; - U \* Q U (S \* Q S° u9b 1/2 ; ° X j ° (j 1/2 ° ;  
: S X ° Q X S ; ' Y \* : S X ° Q j ° ; U ; ' Q&W ; 1/2 X X ° \* 1/4 V Q° 1/2 ° Q U  
°) ° ° ° ; (S° ; j Q° Q Q X Q P : ° Q Q X Q j W x ° U Q W ; U  
j 1/2 ; j ° 1/2 & & ° X j ° (j 1/2 ° \* Q U Q V Q° U Q° 1/2 Q j ° ; & °  
\* + ' U X ° ° Q S (& W U) (S \* X j U ' X Q U V j - j 1/2 Q j Q \* + U ; x  
Q 1/2 ° l o T n M R l N c S (& ° u9b H & ° ; j \* ; Q (S \* - j ° (j 1/2 ° ;  
u S (Q) g l M T 1 - ° ; U z g H ° 1/2 Q 1 z c a l g 1 z k a F g 1 z k a l g 1 z k a o  
j ° ; 1 z k a c g & & ° l p T l a F c j ° ; l a F N (S \* 1/2 X X ° \* 1/4 V ' Q . v & \*  
j - W 1/2 x V z °) ° ° ° ; T S ° ° 1/2 Q (S \* - S ; ' Y \* j ° ; l ; ' Q&W ;  
p' U U) H Q X Q U °) ° ° ° ; (S° ; j Q° Q Q X Q : U 1/2 W ° S &  
° 1/2 ° ; & ° - S ; ' 1/2 ° Q) ° Q

: u Gv B Gw3 G m f 2 h B 5 GP

a) Structural test reports and design drawings and specifications  
° ° Q x X & ; & Q x Q ° Q & ° V j ; 1/2 \* U) 1/2 - j 1/2 S (& °  
product and are on file with RADCO.

x K P : ° + j V j ° ; - S 1/2 Q 1/2 S V Q ; U & ° X j ° (j 1/2 \* U) j ° ;  
j Q X x V S (& ° - S ; ' 1/2 : j ° x ° ° Q x X & ; & g ° U ° ; g j ° ;  
are on file with RADCO.

1/2 M1bTv Q j ' ; & U Q ° 1/2 - S \* j X (S \* Q° ; j \* ; - U \* Q U &  
assure that the product is manufactured from the specified material  
j ° ; U 1/2 (S \* X j ° 1/2 & M1bTv Q U) j ° ; & ° j - S ° ; + j V  
1/2 & S V X j ° j V

Au k G3z h h GwP. 5 B w m

M1bTv \* 1/2 X X ° ° ; Q & j & - U' & - j ° 1° 1/2 S° Q Q° ; j \* ; Q° V - U° Q  
x° j 1/2 - & ; (S \* Q U u9b 1/2 ; ° X j ° (j 1/2 ° ; : S X ° Q X S ; ' Y \*  
: S X ° Q U ; Q&W ; 1/2 X X ° \* 1/4 V Q° 1/2 ° Q U °) ° ° ° ; (S° ; j Q°  
Q Q X Q - S U° ; & j &

F. P : ° - S ; ' 1/2 W X j ° (j 1/2 ° ; j & & (j 1/2 ° \* ° ° ° 1/2 ; U & W  
U) .

l. B' j V 1/2 & S V S (& ° - S ; ' 1/2 W X j U & U° ; x & ° X j ° (j 1/2 ° \* .

R P : ° X j ° (j 1/2 \* U) j ' ; U j ° ; X S ° Q \* U) Q Q X x M1bTv W  
X j U & U° ; U) S S ; Q° ; U) .

o. z j 1/2 Q° ; j \* ; - U \* W x ° X j ° ° ; & j Y x ° U j Q X - V S  
which is shown in figure 1. The label denotes the RADCO  
° j X ° g j ° ; Q U) 5 FRca.

Nu. ddkz v. c

P : W U) W Q x ° & S j - S j V S° j ° j ° ° j V x Q W M1bTv .

All products shall be identified as follows:

m j ' ° Fh H j X - V G x ° V

**h Bv° 5G h . w . w34z km**  
**M1bTv Q U) 5FRca**

RATED 6,000 POUNDS/2" MAX PIER HEAD EXTENSION

**K. kw BvD 3bv Dv P Hz P J lz Mb l Mz T P G v D Hv l G**  
**b v Dv P 9 Hz J lz M1H 1D 19 Pv - v Pl dz Z1 T4 HP1 Db**

J U \* p S S X H & X -

**h h d - - -**

\*The first set of X's will represent the pier height and the second set  
S (# Q W ° - ° Q ° & & ° ; j & S (X j ° (j 1/2 ° \*



5 "Y"Y• 39Y 7"Y• B" u  
q( , uk . P3z u

FNa, F - & Oj Q U) &° H&g  
mŕ' ° & ũ dj W gT1  
r l , aN

P° Wtckl Kl , l S l RF  
nj htckl Kcl r S cFR

c Bn5 BvD  
k . P bWgAA

c Bn5 BvD 5 Gm5 BvD P Bv Bn5 w

dkz P° 35l mGP3z Fz ° wP. 5B w 2. mG d. P

lQQ °; hZj °. l aFc  
M° W; h- j \*½ l al l

h . w° F. 35° kGkl nŕ/q) 9 d"°sB" u  
FRr a - WQŕ° P\*j W  
O WŕXj \*gT1 r l crc

H' x° ½ & M° ũ h  
- j \*½ l al R

dc. w5 cz 3. 5B wl uj \*\*Wŕ° - j °' (j ½ \*ŕ) S  
coc nŕ\*; 1 °. gZj ½ Qŕ° g- H R l ar

3. 5GDz k/ l bZ HlAD Smv 9 Db 1Plv D p1Hz J1bH

. ddcB. 5B wl 4° P 39q%h, Y J) %q h 9q 7, 49# % s, Yq Bq " ; 7' %q 39# # %) " ; 7m ) %

**mG3 5B w W Bv5kz P° 35B w**

1&& ° ° + ° Qŕŕ(H°; ½ J ũ° g l° ½ gk. P3z : j Q° j X ũ°; & ° ũ pj Q  
nŕ' °; j 8ŕ° Jj; Qŕ; ° & \*X ũ° & °; ° Q ũ° ŕj; ½ - j ½ ũ ũ j ½ ŕ; j ° ½  
ũ H° ½ ŕ° R l Na. oaFtxK ŕ( P: ° mŕ; ° \*j V - j °' (j ½ \*°; uŕX°  
Tŕ° Qŕ ½ ŕ° j °; Hj (° & Hŕ°; j \*; Qj Q ° Wj Q - ŕ; ' ŕ \* uŕX° Qj °;  
l°; ' Qŕ ũ°; TŕX X ° \* ½ V Hŕ ½ \*° Q

**mG3 5B w r l P Gm6 k B 5B w**

P: ° pj Q Jj; Qj ° X ŕV°; pj Q - j; Q: j ũ ½ ŕ° ŕj' ŕ' Q \* ũ Q \* ° ũ  
- j \* W ũ °; ; ũ) ŕ° j V ũ & ° - j; Qj° Q P: ° pj Q - j; QXj x ° ' Q;  
ŕ; Wŕ ũ & ½ ° ½ ° ŕj & ; - ũ \* ŕj; Qŕ' °; ° \* V ũ) Qŕ ũ (ŕ \* X j °' (j ½ \*°;  
: ŕ Q ũ) ½ ŕ° Qŕ ½ ŕ; ũ j ½ ŕ; j ° ½ ũ. P: ° mŕ; ° \*j V - j °' (j ½ \*°;  
uŕX° Tŕ° Qŕ ½ ŕ° j °; Hj (° & Hŕ°; j \*; Ql o TnM Jj \* & R Na. P: ° pj Q  
- j; Qj ° j j ũ xV ũ j \* ŕ' Q ũ Q ũ Qj Q° ŕ & ; ũ ũ xV F.

**mG3 5B w gl . ddcB. 5B w. wP Bm6. cc. 5B w**

P: ° pj Q - j; QQ j Wx° ũ Q ũ W; ũ j ½ ŕ; j ° ½ ũ & ° Xj °' (j ½ \*° \* Q  
ũ Q ũ Wŕ° ũ Qŕ ½ ŕ° Qj °; & ° ° + ũ X° ° Q ŕ( & W Wŕ) (ŕ \*  
Xj ũ X Qŕ ũ ½ - j ½ ŕ Q ° ° + ũ; x Q ½ ŕ° l o TnM R l Nc ŕ( & °  
u9b Hŕ°; j \*; Q(ŕ \* - j °' (j ½ \*°; uŕ ŕ) g l M T 1 — °°; U z g H° ½ ŕ° Q  
1zcal g1zkaFg1zkal g1zkaoj °; 1zkaogŕ & ° lpT l aFc j °; l aFN  
(ŕ \* ½ ŕ X X ° \* ½ V' Q. v & ° \* j - ũ ũ xV z °) ũ ° ° °; Tŕ° ° ° ½ ŕ° Q (ŕ \*  
- ŕ; ' ŕ \* j °; l°; ' Qŕ ũ°; p' ũ ũ) H Qŕ X Q ũ ° °) ũ ° ° °; (ŕ' °; j 8ŕ°  
Q ŕ X Q : ũ ½ W° ŕ & ° ½ °; & ° - ŕ; ' ½ & °; ° Q ũ Q P: ° Xj ũ X  
; ° Q ũ ° ½ ° ŕj & ; ŕj; Qj ° - ŕ \* ũ °; ũ ũ xV F.

**mG3 5B w : l Gv B Gw3 Gm 2 h B 5GP**

j K P° Q&M° -ŕ \* & x M1b Tv gM1b ŕkl NgZj ° j \* l aFc.  
xK P° Q&M° -ŕ \* & x M1b Tv gM1b ŕkl rgZj ° j \* l aFc.  
½ K P° Q&M° -ŕ \* & x M1b Tv gM1b ŕkoRgnf x° j \* l aFc.  
; K P° Q&M° -ŕ \* & x M1b Tv gM1b ŕkkog- j \* ½ l aFc.  
° K P° Q&M° -ŕ \* & x M1b Tv gM1b ŕkNFg- j l aFc.

**mG3 5B w Al kG3z h h GwP. 5B wm**

k. P3z ° \* ½ X X ° °; Q&j & & ° pj Q Jj; Qx° j ½ - & ; (ŕ \* ' Q ŕ( pj Q  
Jj; Q - j; Q ũ x° j \* ũ) ½ - j ½ ŕ ŕ( Qŕ W Wŕ; ũ ũ xV F (ŕ \* Q — ŕ \* & ŕ  
½ ŕ ° & Xj Qŕ ° ' ° ũ - ũ \* Q ũ - ŕ ũ °; & j & h

a) Each Base pad shall be fabricated, identified and installed in  
j ½ ŕ; j ° ½ ũ & W Wŕ) g & ° Xj °' (j ½ \*° \* Q - ũ xW °;  
ũ Q ũ Wŕ° ũ Qŕ ½ ŕ° Qj °; & ° j - ũ ũ xV ½; ° tQk l° & ° ° ° & ŕ  
a conflict between the manufacturer's published installation  
ũ Qŕ ½ ŕ° Qj °; & W Wŕ) g & W Wŕ) Q j W ŕ ŕ ° °. P: ° ũ Q ũ Wŕ°  
ũ Qŕ ½ ŕ° Q Q j Wx° j j ũ xV j & & - ŕ ũ & ŕ( ũ Q ũ Wŕ°.

xK zj ½ pj Q - j; Q Q j Wx° Xj \* °; ũ Xj °' (j ½ \*° \* j X ° j °;  
address, product name, RADCO name/logo and Listing #1355.

½ K P: ° pj Q - j; Qj ° ŕ( & ° Q X ° + j Vŕ j °; Q ũ j Q & ŕ; x  
M1b Tv gl ½

; K J ũ Qj ° ũ ũ ŕ; ŕ ŕ ° V - ũ \* Q ŕ \* ŕ) V ŕ \* ; ŕ xV Qŕ ½ °; ½ ŕ ° ½ ° &  
Xj Qŕ ° ' ° ũ x ŕ ½ Q ŕ( & W Wŕ) . P: ° Q pj Q Jj; Q: j ° ° ŕ &  
x ° ° ° j Vj & ; (ŕ \* X' ũ ũ V Qŕ \* x' ũ ũ) ½ ŕ ° Qŕ ½ ŕ°.

° K P: ° ; ° Q ũ - ũ \* ŕj; X' Qŕ ° ŕ & ° ½ °; & ° V Q ũ \* ŕ( & ° - j;  
½ - j ½ g Qŕ ũ ½ - j ½ ŕ ŕ \* - ũ \* ½ - j ½ ŕ. mŕ ŕ ũ ũ ° ° + ũ X ° ° Qj ° \*  
° ŕ & - j \* & ŕ( & W ° j Vj 8ŕ° j °; Q j Wx° ) ŕ ° ° °; x Hŕ & j °;  
ŕ ½ Vj ' & ŕ ŕ Q

(K P: ° : ŕ X ° ŕ \* x' ũ ũ) ũ Q ũ W \* ũ ° Q - ŕ Q ũ V (ŕ \* & ° (ŕ' °; j 8ŕ°  
; ° Q ũ ° ŕ( j ½ : ŕ X ° ŕ \* ũ ; ' Qŕ ũ°; x' ũ ũ).

) K P: ° Xj °' (j ½ \*ŕ) - ŕ ° & X ŕ ŕ ŕ \* ŕ) j ; ũ j °; & Qŕ) - ŕ \* ŕ X  
X' Qŕ ŕ ŕ ° j & & ° - ŕ Q ũ ũ ; (° ° + ° ° ½ j Q X' & j W j) ° °; ' - ŕ °.

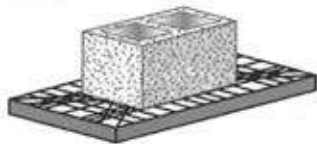
**mG3 5B w N . ddkz v. c**

P: W Wŕ) W Q x° ½ ŕ z °) ũ ° \* ũ) M° ũ j °; 1 — ŕ j Vŕ ° j ° j ° ° j V  
xj Q ũ x P ũ ũ) Tŕ° Q ŕ) gl ½ ; xj . k. P3z . 9 — ; j 8ŕ) ŕ( ; j & j °;  
( \* & ° ũ (ŕ \* Xj 8ŕ° Xj x ° ° ° + ° ŕ; j °; ũ W x° Q x X ŕ; j Q  
° ° ½ Q ũ \* .

5, (7%Wh, '# # P% 'Y c9, q 3, X,) " J 2, %d, q

h 9q%7	2, %d, q m' %	m9'72% 'Y• 3, X,) " n			
		Fgaa -Q	Fgaa -Q	l gaa -Q	Rgaa -Q
pJ FkFk	16" x 16"	Fg, N	l gk,	Rgck	cgRRR
pJ FNFN	18.5" x 18.5"	l gR,	Rgkc	og cR	, gRa
pJ F, l R	17" x 23"	l g l k	ogar a	cgpcR	Ng, r
pJ l al a	20" x 20"	l g, N	ogFk,	cgck	NgRRR
pJ l ol o	24" x 24"	ogaa	kgaa	Ngaa	Fl gaa

iT\$° 1/2° & x 1/2° Qj \*° j &; j & Ngaa VQ pj Q (\$' °; j 88° -j; QX' Qx°; \$' xV x 1/2°; (\$\* Vj; Q) \*° j & \* & j ° Ngaa VQ  
 ' - \$ Fl gaa VQj °; Vx l &; \$ Fagaa VQ(\$\* Q° V-U\*Q



mly' \*° F H9) V j °; b \$' xV H & 1/2 T \$' \*Q

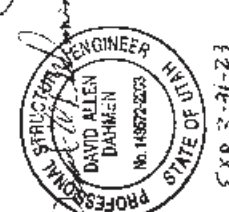
**MINUTE MAN ANCHORS, INC.**

305 WEST KING STREET  
EAST FLATROCK, NC 28746

PHONE: (800) 68-7777  
FAX: (800) 68-7777

**DESIGN & GENERAL NOTES**

- DESIGN LOADS: WIND: 15 PSF (70 MPH EXPOSURE) CAC 7-26 and COMPLIES WITH THE 2015 CBC
- SOIL BEARING: 1500 PSF
- THE DOWN STRAP: 3150# WORKING LOAD
- SEISMIC: CAC 7-23 AND 72019 CBC. S=1.5 Fa=1.4 S<sub>m</sub>=1.41 See Cases D, E
- THE DOWN STRAPS TO BE MIN 1 1/4" WIDE X 0.038 THICKNESS ZINC PLATED AND MEET ASTM D-3680B1
- EARTH AUGERS: 3150# (tested to 4725# min) CROSS DRIVES (test) 1575# Stabilizer Plate Required
- CROSS DRIVES (asphalts) ... TEDAW (tested to 3800#) asphalt min 2.5" thick
- CROSS DRIVES (hard rock) ... 3150# (tested to 4725# min)
- CONCRETE SLAB ANCHORS: 3150# (tested to 4725# min) drill proper size (at least min 4" from any edge)
- GENERAL NOTES:
  - THE CHARTS SHOWN HEREIN ARE FOR THE REQUIRED NUMBER OF TIE DOWNS ON THE SIDES OF THE MANUFACTURED HOME
  - THE DOWNS ARE REQUIRED AT EACH CHASSIS BEAM, EACH END OF EACH TRANSPORTABLE SECTION OF THE MANUFACTURED HOME AND CAN BE ANY OF THE TYPES SHOWN HEREIN
  - COMBINATIONS OF THE DIFFERENT TYPES OF THE DOWNS CAN BE USED. IN THE EVENT THAT BOTH TYPES ARE USED, THE DOWNS MUST BE INSTALLED TO OBTAIN THE SAME EFFECTIVE CROSS DRIVE ANCHORS IS PERMITTED PROVIDED (2) CROSS DRIVES ARE INSTALLED FOR EACH EARTH AUGER THAT CANNOT BE INSTALLED
  - FOR ALL TIE DOWN INSTALLATIONS, THE WFOED HOME CHASSIS MEMBERS ARE SHOWN AS "T" BEAMS. FOR ILLUSTRATION PURPOSES ONLY, CHASSIS BEAMS CAN ALSO BE "C" SHAPED OR "RF" C" SHAPED.
  - END TIE DOWNS CAN BE LOCATED WITHIN 24" OF EITHER SIDE OF CHASSIS BEAM AXIS AS SHOWN.
  - THE SIZES, TYPES, LENGTHS, ECT. OF MATERIAL SHOWN HEREIN ARE MINIMUM. LARGER, LONGER, HEAVIER MATERIALS SUPPLIED BY MINUTE MAN ANCHORS MAY BE USED AT THE SAME SPACING & LOCATION SHOWN.
  - ALL PARTS ARE STAMPED MMA- WITH THE APPROPRIATE PART NUMBER.
  - THIS TIE DOWN SYSTEM CAN BE USED WITH 10" WIDE MANUFACTURED HOME SECTIONS WITH 100" CHASSIS CENTERS PROVIDED THE HEIGHT FROM GRADE TO THE BOTTOM OF THE CHASSIS BEAM DOES NOT EXCEED 16".
  - THE DOWN STRAPS IN THE LONGITUDINAL OR TRANSVERSE DIRECTION CAN BE BOLTED TO THE HITCH ATTACHMENT PLATE THAT IS WELDED TO THE CHASSIS BEAM



**ENGINEER APPROVAL**  
SEE PAGE 2 FOR ADDITIONAL INFORMATION

**STATE APPROVAL**  
ENGINEER APPROVED SYSTEM

PACIFIC CONSULTING ENGINEERS  
8728 North Vista Drive  
Kingman, AZ 86401  
(915) 298-2376

1-4-21

DATE: 7/11/21  
BY: [Signature]

**REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA**  
DAVID A. DAHMEN  
CIVIL

**REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA**  
DAVID A. DAHMEN  
CIVIL

EXP 7-12-23

EXP 7-31-23

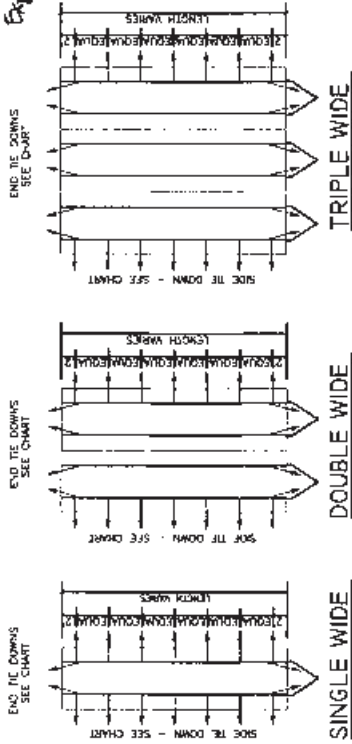
**INSTALLATION INSTRUCTIONS**

FIRST CHECK FOR UNDERGROUND UTILITY LOCATION:

- EZDH EARTH AUGERS**
  - SEE DETAIL, THIS BOOKLET FOR INSTALLATION INSTRUCTIONS.
- EARTH AUGERS INTO SOIL WITH CONSTANT DOWNWARD PRESSURE TO MINIMIZE SOIL DISTURBANCE LEAVING APPROX. 12" OF SHAFT EXPOSED.**
- INSTALL STABILIZER PLATE - DRIVE FLUSH WITH GROUND SURFACE.**
- CROSS DRIVE TURNING AUGER INTO GROUND UNTIL AUGER HEAD IS FLUSH WITH GROUND SURFACE AND TOP OF STABILIZER PLATE**
- CROSS DRIVE ANCHORS**
  - CROSS DRIVES ARE USED WHERE HARD ROCKY SOIL OCCURS. IF THE GROUND SURFACE IS OTHER THAN ROCK OR MIN 2.5" ASPHALT, INSTALL MMA-S02 STABILIZER PLATE, OR PLACE 12"x12"x12" DEEP CONCRETE.
- CONCRETE SLAB ANCHORS**
  - CONCRETE SLAB TO BE MINIMUM 3 1/2" THICK AND IN GOOD CONDITION.
  - MINIMUM SLAB AREA REQUIRED FOR EACH ANCHOR IS 28 SQ. FEET.
  - DRILL PROPER SIZE HOLE IN SLAB MINIMUM 4" FROM ANY EDGE.
- ALL APPLICATIONS**
  - ATTACH STRAPS TO CHASSIS BEAM IN MANNER SHOWN.
  - INSERT STRAP THROUGH SPLIT NUT, CUT OFF EXCESS STRAP AND TIGHTEN UNTIL SNUG.

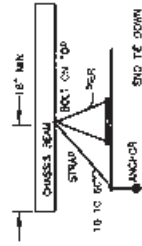
THIS PLAN MAY BE USED FOR MANUFACTURED HOMES PLACED IN FEMA FLOOD HAZARD ZONES A, AE & AH. PROVIDED THE GROUND ANCHORS ARE THE MMA-650, 50" EARTH AUGERS. UNDER FLOOR VENTS AT THE PERIMETER SKIRTING SHALL BE PLACED WITH THE BOTTOM OF THE VENT MAX 12" ABOVE THE UNDER FLOOR GROUND SURFACE

**TIE DOWN LOCATIONS**



EARTH AUGERS	CROSS DRIVE ANCHORS	CONCRETE SLAB ANCHORS
MAX LENGTH OF WFOED HOME	MAX LENGTH OF WFOED HOME	MAX LENGTH OF WFOED HOME
32' 42"	32' 42"	34' 42"
MAX NO. OF SIDE TIE DOWNS	MAX NO. OF SIDE TIE DOWNS	MAX NO. OF SIDE TIE DOWNS
3	4	4
5	5	5
6	6	6
7	7	7
8	8	8

NOTE: IF OBSTRUCTIONS PRECLUDE THE PLACEMENT OF THE SIDE TIE DOWNS AT THE 2' LOCATION SHOWN, SIDE TIE DOWNS AT 2'-0" FROM EACH END HAVE A TOLERANCE OF 1".



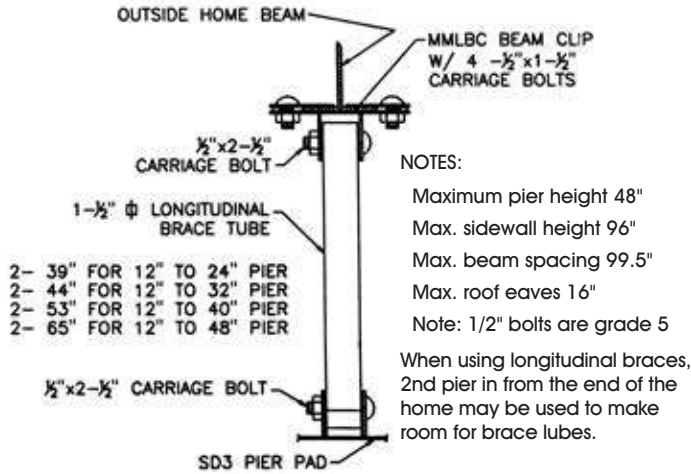
NOTE: TIE DOWN STRAPS AT THE CHASSIS BEAM ENDS (END TIE DOWNS) CAN BE ATTACHED TO A CHASSIS SUPPORT RIVET VIA A NUT BOLT ON TOP. (SEE SKETCH ABOVE)

MINUTE MAN ANCHORS LISTED BY RADCO  
3220 E. 59th Street  
Long Beach, CA 90805  
LISTING NUMBER AT 1344  
THE DOWN SYSTEM TO BE IDENTIFIED BY A STICKER PLACED ON THE STEEL STRAPS IMMEDIATELY TO COMPARE THE FOLLOWING MINUTE MAN AND ORDER'S TIN  
RADCO  
Listing Number 1344

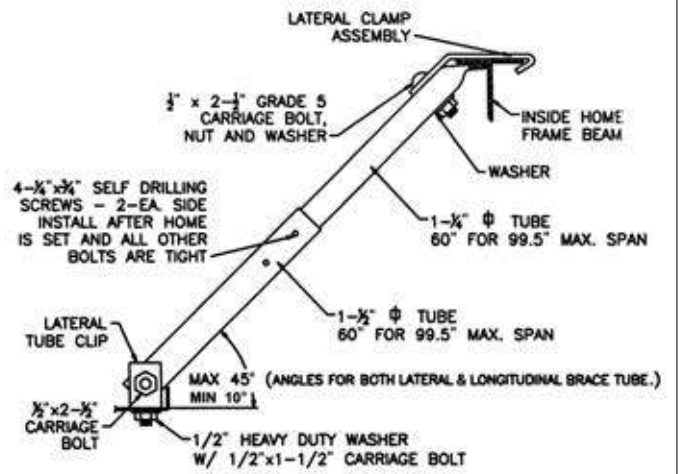


# LONGITUDINAL AND LATERAL BRACING SYSTEM

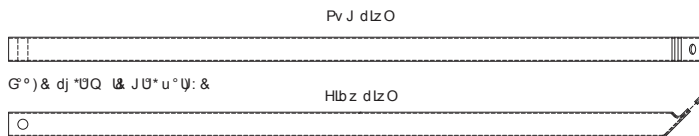
## LONGITUDINAL BRACE DETAIL



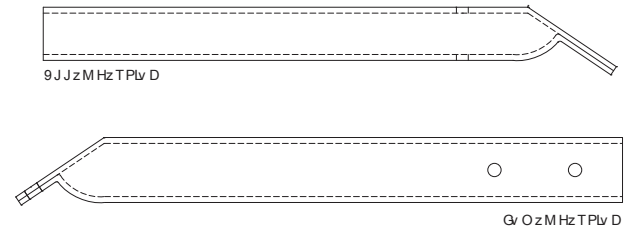
## LATERAL BRACE DETAIL



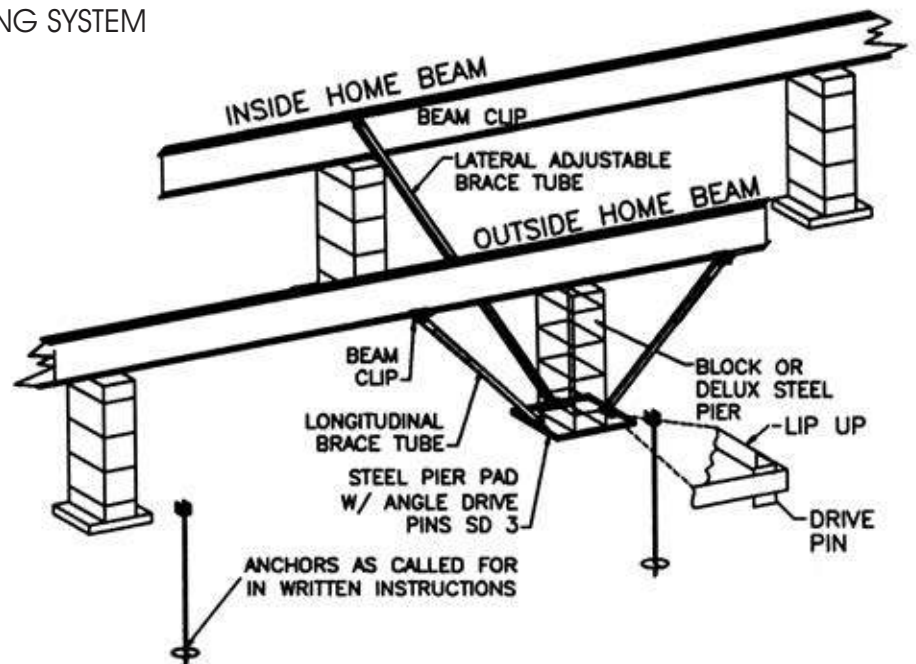
## LONGITUDINAL BRACE FLEX TUBES FOR CONCRETE



## LATERAL BRACE FLEX TUBES FOR CONCRETE



## LONGITUDINAL & LATERAL BRACING SYSTEM DETAIL ASSEMBLY DRAWING

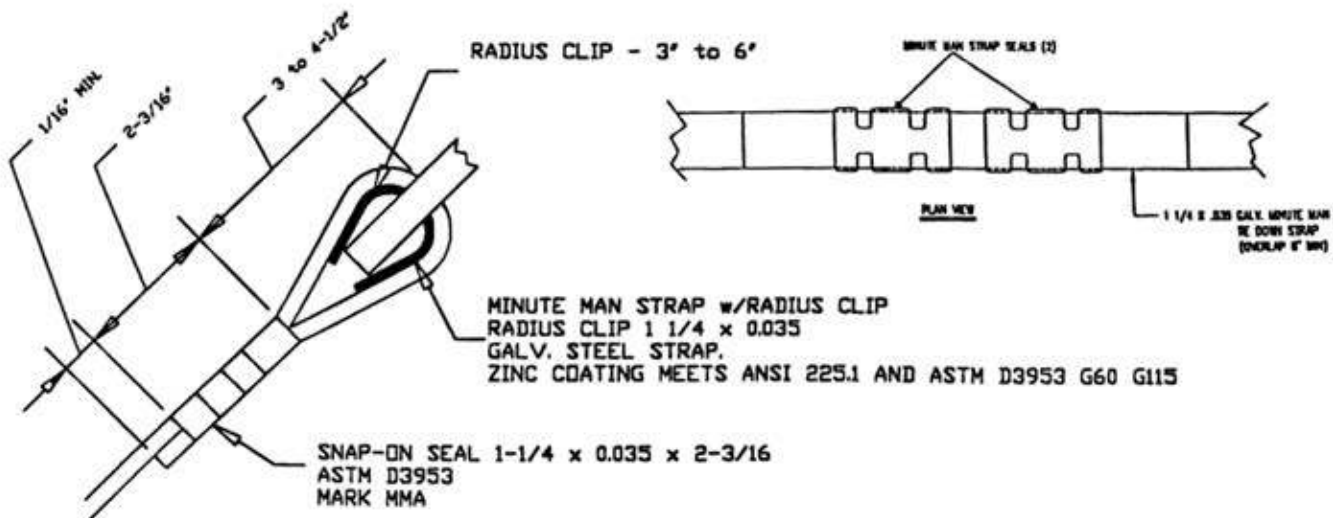


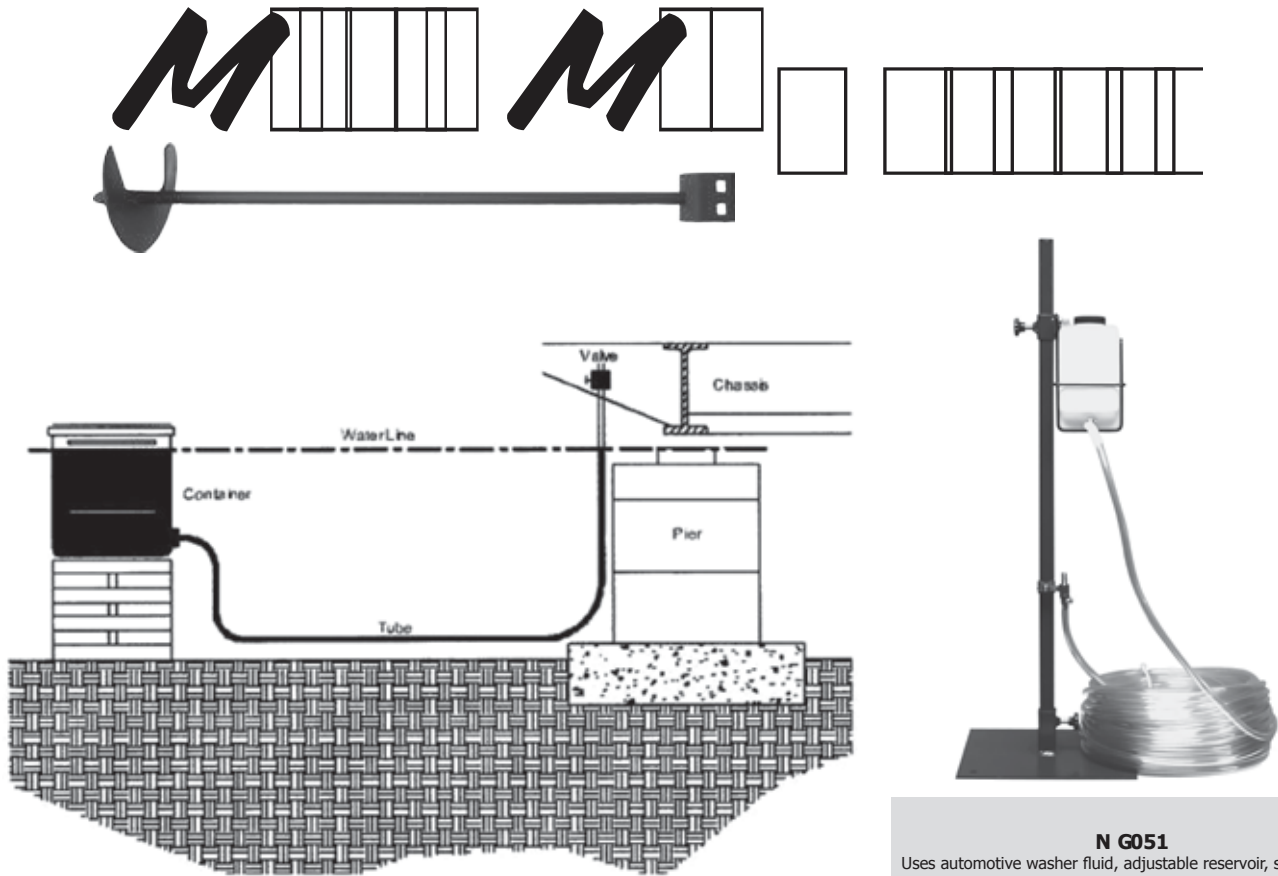
The Minute Man Anchors LLBS Bracing System was tested for Wind Zones I, II, & III  
Tested 10/10/01  
Rev. 3/6/02  
Rev. 7/14/04  
Rev. 2/1/10

NOTE:  
All LLBS Systems are shipped with complete installation instructions.  
See these instructions for System Locations in Zones I, II, III, FL.

## “SUGGESTED RECOMMENDATIONS WHEN USING CRIMPING SEALS”

1. The strap must be identified “MINUTE MAN ANCHORS **CERTIFIED ANSI 225.1 AND ASTM D3953.**”
2. WHEN EXTENDING OR SPLICING TWO STRAPS, OVER LAP APPROX. 6", USE TWO SEALS FULLY CRIMPING EACH SEAL TWICE TO BOTH STRAPS.
3. WHEN STRAPPING TO AN APPLIANCE SUCH AS SLOT IN A VERTICAL TIE OR A HOOK OR A BUCKLE WE SUGGEST THAT YOU USE A SHORT PIECE OF STRAP (RADIUS CLIP) BENT 180 degrees IN DIRECT CONTACT WITH THE APPLIANCE. (This will act as a cushion, reinforce and prevent sharp bends in the strap.) NEXT INSERT THE STRAP BENDING IT OVER 180 degrees BACK TO THE STRAP USING ONE SEAL, PLACE BOTH STRAPS INTO SEAL AND CRIMP TWICE.
4. SEALS MUST ALWAYS BE CRIMPED TWICE.
5. PLEASE NOTE: TWO SEALS REQUIRED WHEN SPLICING TWO STRAPS. ONE SEAL WHEN BENDING 180 degrees.





**N G051**  
 Uses automotive washer fluid, adjustable reservoir, steel post is removable from heavy steel base, magnetized brass valve, allows for easy removal of air bubbles, includes 100' of 1/2" transparent hose for quick leveling.

**K. 5Gk cGvGc Bm5k° 35B wm**

**m%W** *There cannot be any bubbles in the line for the water level to be accurate.* J\*§1/2; ' \*° to bleed out bubbles: Lay the water line out flat, hold the valve below the level of the reservoir, open the valve at the end of the line, bleed out any air bubbles, as the bubbles flow through the line add water to the reservoir until all bubbles are flushed out, next close the valve. **Fub:** j' §X§&U° washer fluid can be used to prevent freezing and better visibility.

**m%rl v° 1/2 &° Q° 1/2 \*° : °U: &Q; ° &\*XU°; gV1/2 & V° V1/2Q °° §' ):** § \*° j 1/2 j W&° -U\* V1/2 §§ Q TVj \* &° j \*° j §(j° §x° 1/2Q&j&Xj §xQ° 1/2Qj)g§\* 1/2' Q &° &xU° : °° X § U° (\*§X -U\* § -U\*. v -°° j V° j°; j; ' Q° \* Q° §U: °U: &° &V&° j &\*V ° Vj &&° j V° °°; U° Q up with the bottom, I beam flange s **t. CLOSE VALVE.**

**m%gl** Place valve/magnet on frame with valve closed. **ALWAYS CLOSE VALVE BEFORE YOU PLAN TO MOVE IT.** 1; ' Q&° \*° Q° §U§° &° Q°; Q§ &° j &\*V ° VQj Q1/2Q § &° x§§X V° V§(&° (\*X° j Q -§QV. v -°° j V° j°; j; ' Q° \* Q° §U: °U: &° &V&° j &\*V ° Vj &&° j V° °°; U° Q' - U &° x§§X -V & §(&° (\*X°. **CLOSE VALVE.**

**m%: I** Once you have set the final height adjustment, you are ready to set/level the home **m%AI** M° -° j &° &V j \*° j &&° Q X° V° VO: °° 1§X -V& &° Q° 1/2 \*° Q §' V x° V° V(side to side, front to back). **THIS IS EASIER WITH TWO PEOPLE.**

**wGK mG5ml** Establish where the highest point of the grade is first, set bottle away from the structure, V §' &U° gj°; &'° j V° °°; § &° : U: ° Q - §U§(&° ) \* j; ° ' Q) j &° X° j Q \*° § j; ' Q&° j &\*V ° Vj &&° j V° °°; x j; ' Q) &° x§§V: °U: &§; ° Q'; X U U' X (\*X° : °U: & 9 Q j pre-marked 1" x 2" board at the valve end.

- . cK. / m3cz mGv. cvG 2 GFz kGk Gcz 3. 5BvD . wP m5z k BvDu
- Pz wz 5 . ccz K 54G4z mG5z DG5 VBvGVP z k d° 5 4G. v/ z 2ZG35mz w 4z mGu
- . VBvGVP z k z 2m5k° 35GP 4z mGK Bc . PvGk mGc/ . FFG3 5 54G
- F° w35B w. c. 33° k. 3/ z F 54G cGv Gcu





All anchors are "DH" type for use with either one or two tension bolts. Anchors are priced without tension bolt and nut - they must be ordered separately. Tension bolts and nuts will be packed separately from anchors.

Anchor • Drive Anchor • Anchor Kits • Anchor Drive Machines • Strapping • Mobile Home Piers



Eye Anchor



650 DH 5/8, 1 1/16, & 3/4



36" & 48"  
Cross Drive



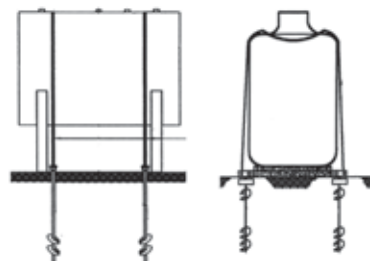
EZDH Anchor  
4430, 4636  
636 & 650  
Available



4636 DH 3/4



4430 DH 5/8, 1 1/16, & 3/4



Tank Anchoring Systems



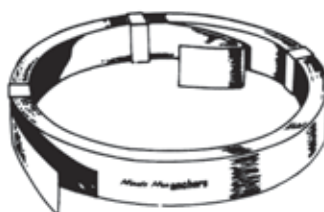
Strap Bolt and Nut



Strap  
Buckle



Stabilizer Plate



Galvanized Strapping



210JDH



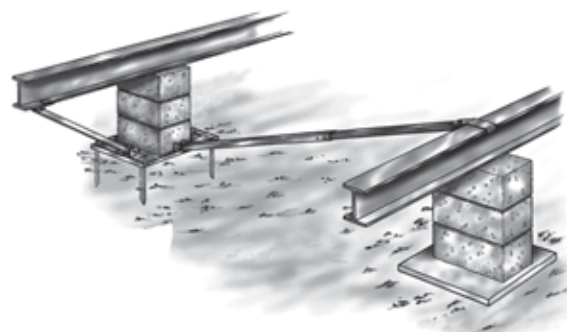
210PDH



THDHL



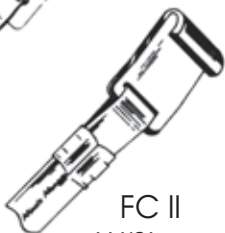
Standard Pier



LLBS Foundation Bracing System



Buckle  
W/Strap



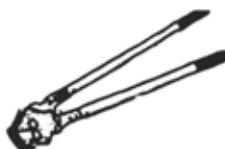
FC II  
W/Strap



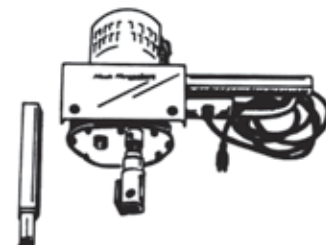
Roof Bracket



LFC II  
W/Strap



Crimping Tool



Minute Man Anchors  
Drive Machine