

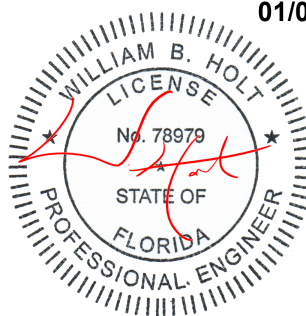


World Tower
COMPANY, INC.

1213 Compressor Drive
P.O. Box 508
Mayfield, KY 42066
270-247-3642
FAX: 270-247-0909
E-mail: worldtower@worldtower.com
Web: www.worldtower.com

36' TYPE 24UCS TOWER FOR: EVERCLEAR NETWORK, LLC SITE: MIAMI, FL DESIGN PACKAGE

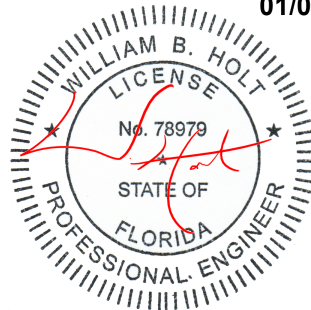
01/04/19



GENERAL NOTES

1. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY AWS. D 1.1.
2. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
3. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
4. LEG STEEL IS 50 KSI MIN YIELD SOLID ROUND OR PIPE AND BRACING STEEL IS 36 KSI MIN YIELD SOLID ROUND OR STRUCTURAL ANGLE.
5. ALL STRUCTURAL BOLTS ARE ASTM A325.
6. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH TIA-222-G EVERY 5 YEARS.
7. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.

01/04/19

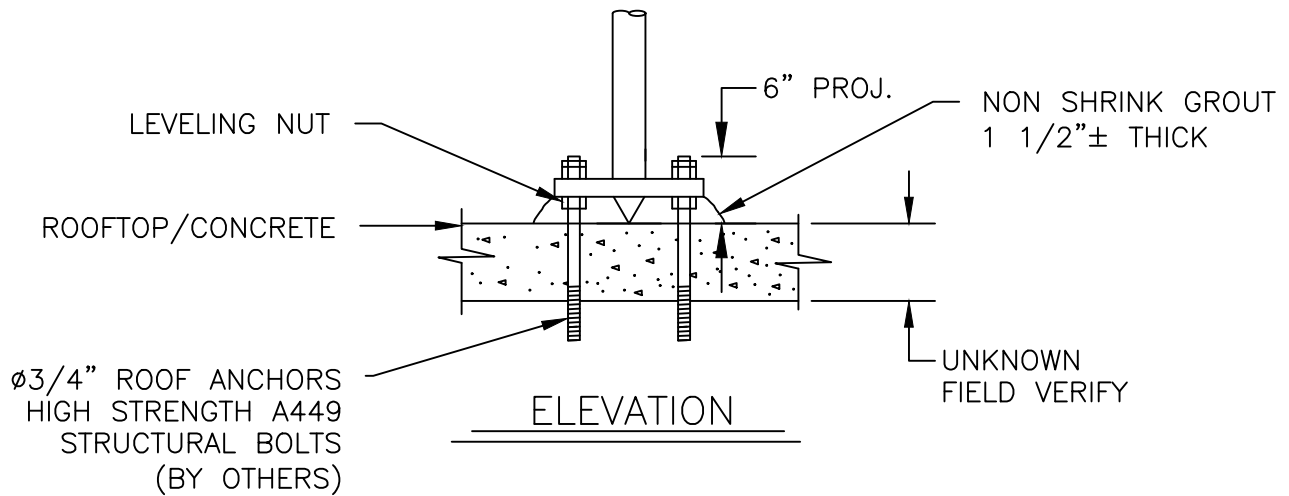


WORLD TOWER

TITLE:

36' TYPE 24UCS TOWER
FOR: EVERCLEAR NETWORK, LLC
SITE: MIAMI, FL

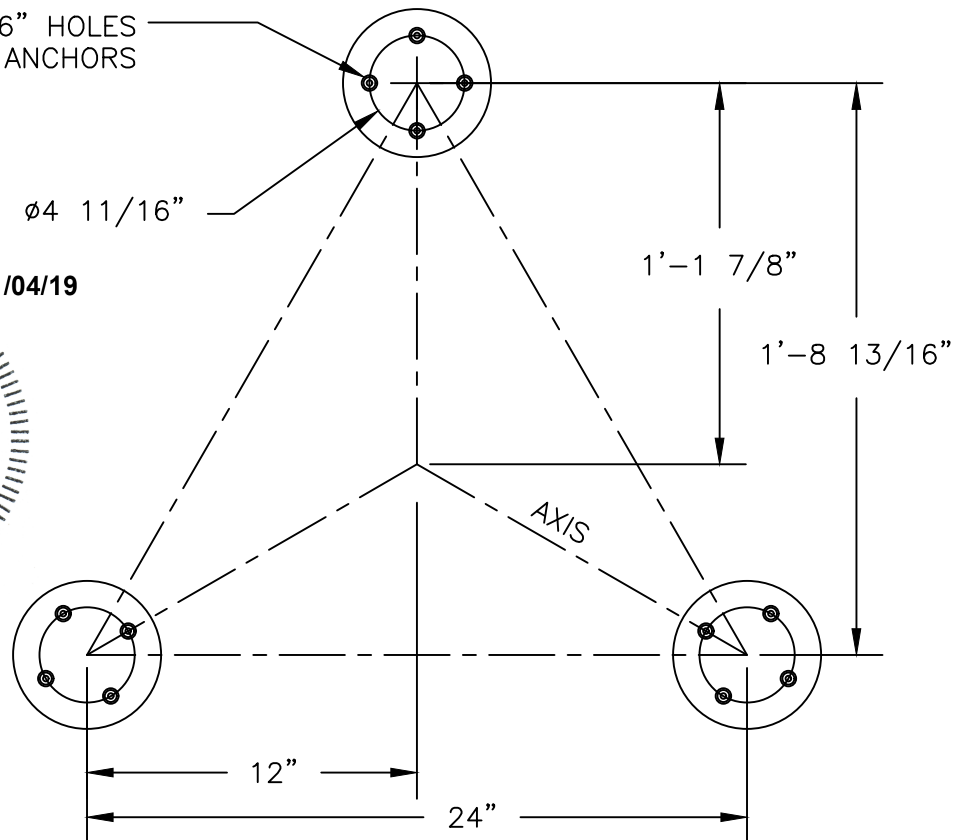
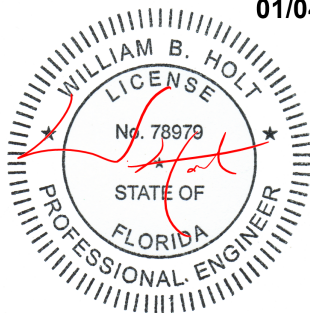
| | | | | |
|-------|------|-----|----------|--------------|
| SCALE | DWN. | LKG | CKD. | DATE 9-22-14 |
| | | | DWG. NO. | Q14579N |



(12) Ø13/16" HOLES
FOR ROOF ANCHORS

Ø4 11/16"

01/04/19



BASE REACTIONS

| | |
|--------------|---------------|
| O.T. MOMENT: | 25.0 FT. KIPS |
| COMP. | 16.0 KIPS |
| UPLIFT | 8.0 KIPS |
| SHEAR | 5.0 KIPS |
| WT. NO ICE | 3.0 KIPS |
| WT. 1/2" ICE | 7.0 KIPS |

GENERAL NOTES

- ANCHOR BOLTS SHALL BE THRU BOLTS TO STEEL BELOW OR DRILLED AND SET INTO EXISTING CONCRETE WITH EPOXY. ANCHOR BOLTS AND CONNECTION METHODS BY OTHERS.
- VERIFICATION OF BUILDING STRUCTURE BY OTHERS.

R1-REVISED REACTIONS LKG 1-3-19

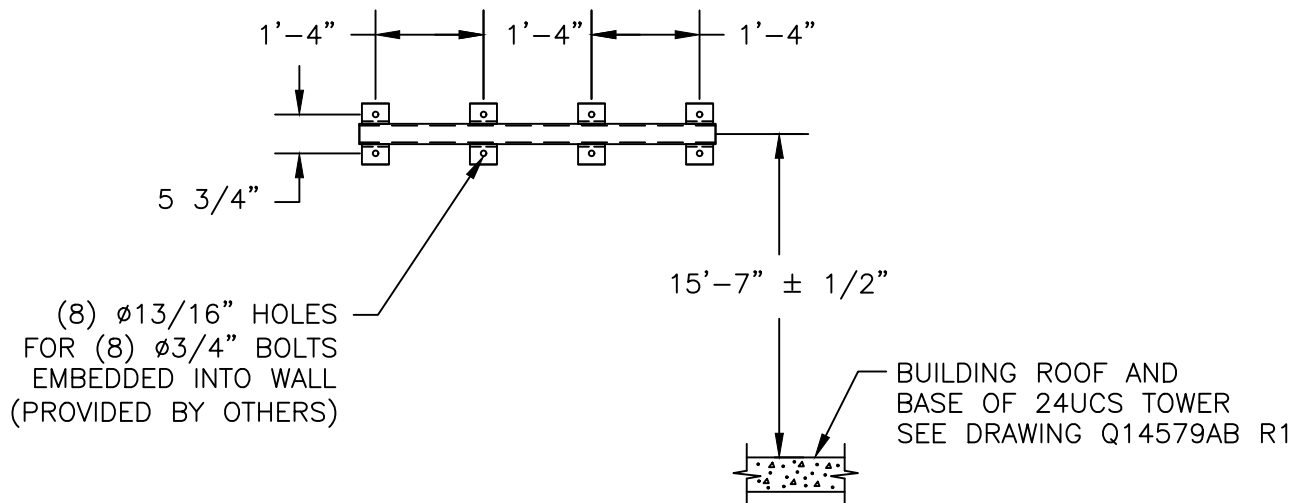
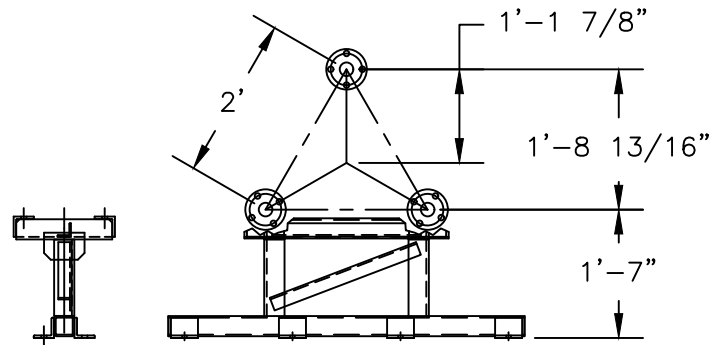
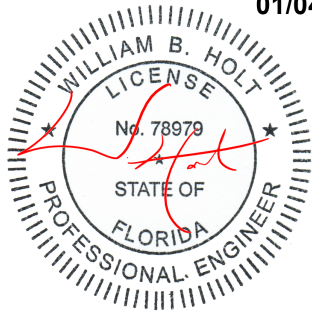
TITLE:

ANCHOR BOLT DETAIL
36' TYPE 24UCS TOWER
FOR: EVERCLEAR NETWORK, LLC
SITE: MIAMI, FL

WORLD TOWER

| | | | |
|-------|----------------------|------|--------------|
| SCALE | DWN. LKG | CKD. | DATE 9-23-14 |
| FILE | DWG. NO. Q14579AB R1 | | |

01/04/19



DESIGN NOTES

1. BUILDING AND ALL CONCRETE ANCHORS (SUPPLIED AND VERIFIED BY OTHERS) MUST BE ADEQUATE TO SUPPORT A HORIZONTAL REACTION OF 11KIPS ULTIMATE AT THE WALL BRACKET PLUS ALL REACTIONS SHOWN ON DRAWING E1 OF RUN Q181143.
2. ALL BUILDING WEATHERPROOFING IS THE RESPONSIBILITY OF OTHERS

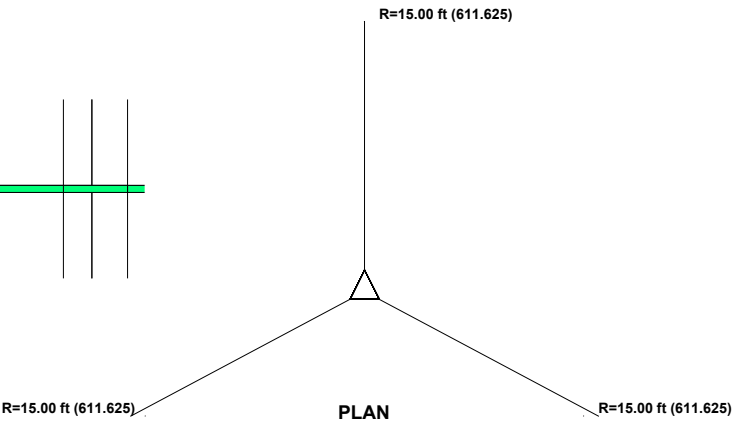
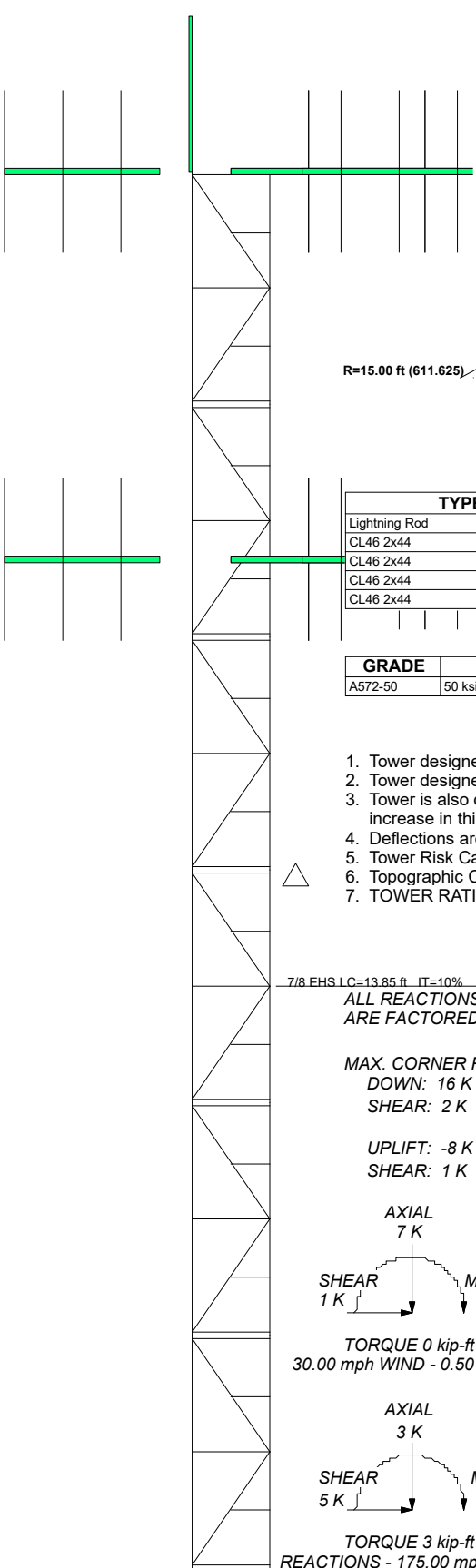
R1- UPDATED REFERENCE RUN IN NOTE 1- LKG 1-3-19

TITLE:
WALL BRACKET AND ROOF MOUNT DETAILS
36' 24UCS TOWER
SITE: MIAMI, FL

WORLD TOWER

| | | | | | | |
|-------|----------|------|-----|------|-----------|---------|
| SCALE | NONE | DWN. | WDU | CKD. | DATE | 9-22-14 |
| FILE | DWG. NO. | | | | A14150 R1 | |

| | | | | | | | |
|-------------------|----------|----------|--------------|----------|----------|----------|----------|
| Section | T1 | T2 | T3 | T4 | T5 | T6 | |
| Legs | | SR 1 3/4 | | | SR 2 | | |
| Leg Grade | | | | | | | |
| Diagonals | | | | | | | |
| Diagonal Grade | | | | | | | |
| Top Girts | | | | | | | |
| Bottom Girts | | | | | | | |
| Horizontals | | SR 3/4 | | | | | |
| Sec. Horizontals | | | | | | | |
| Top Guy Pull-Offs | | | | | | | |
| Face Width (ft) | | N.A. | | SR 1 | | N.A. | |
| # Panels @ (ft) | | | 2 | | | | |
| Weight (K) | | | 12 @ 2.91667 | | | | 1.7 |
| | 632.6 ft | 626.6 ft | 620.6 ft | 614.6 ft | 611.6 ft | 608.6 ft | 602.6 ft |
| | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| | | | | | | | 596.6 ft |



DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|---------------|-----------|-----------|-----------|
| Lightning Rod | 632.625 | CL46 2x44 | 622.625 |
| CL46 2x44 | 632.625 | CL46 2x44 | 622.625 |
| CL46 2x44 | 632.625 | CL46 2x44 | 622.625 |
| CL46 2x44 | 632.625 | CL46 2x44 | 622.625 |
| CL46 2x44 | 632.625 | CL46 2x44 | 622.625 |

MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|-------|--------|--------|
| A572-50 | 50 ksi | 65 ksi | A36 | 36 ksi | 58 ksi |

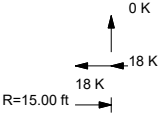
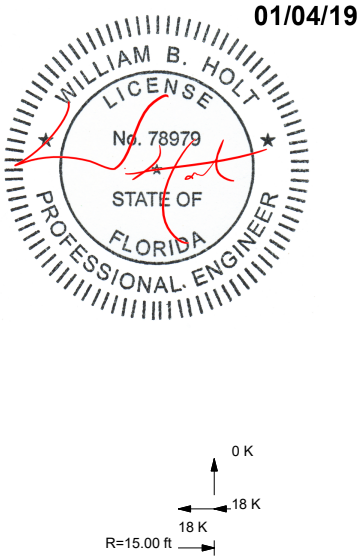
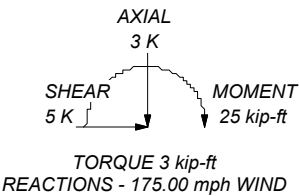
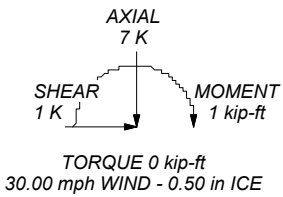
TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-G Standard.
2. Tower designed for a 175.00 mph basic wind in accordance with the TIA-222-G Standard.
3. Tower is also designed for a 30.00 mph basic wind with 0.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 72.8%

7/8 EHS LC=13.85 ft IT=10%
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 16 K
SHEAR: 2 K

UPLIFT: -8 K
SHEAR: 1 K



ALL REACTIONS ARE FACTORED

| | | | | | |
|--|---------------|--------|---|----------------|------------|
| World Tower Company | | | Job: 36' UCS24 Rooftop - Job Q181143 | | |
| 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX: | | | Project: Miami, FL | | |
| Client: | Drawn by: WBH | App'd: | Code: TIA-222-G | Date: 12/20/18 | Scale: NTS |
| Path: G:\World Tower\FL\Q181143 Miami Rooftop\Analysis\Q181143.eri | | | Dwg No. E-1 | | |