



August 6, 2015

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
Moose Hill Road, Guilford CT 06437
Longitude: - 72.716205
Latitude: 41.267245
T-Mobile Site#: CTNH805A_L700

Members of the Siting Council:

On behalf of T-Mobile, Northeast Site Solutions (NSS) is submitting an exempt modification application to the Connecticut Siting Council for modification of existing equipment at a tower facility located at 417 Moose Hill Road, Guilford CT 06437.

The Moose Hill Road, Guilford, CT facility consists of a 110' (expandable to 130') Monopole Tower owned and operated by Bay Communications II, LLC. In order to accommodate technological changes and enhance system performance in the State of Connecticut, T-Mobile plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

As part of T-Mobile's L700 Project, T-Mobile is requesting to install additional antennas to their equipment in order to meet the new standards of 4G technology. The new equipment will allow customers to download files and browse the internet at a high rate of speed while also allowing their phones to be compatible with the latest 4G technology.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in T-Mobile's operations at the site along with the required fee of \$625.



The changes to the facility do not constitute modifications as defined in Connecticut General Statutes significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The overall height of the structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than the new equipment cabinets.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. The changes in radio frequency power density will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Northeast Site Solutions (NSS) on behalf of T-Mobile, respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at 860.209.4690 with any questions you may have concerning this matter.

Sincerely,

Denise Sabo

Mobile: 860-209-4690

Fax: 413-521-0558

Office: 199 Brickyard Rd, Farmington, CT 06032

Email: denise@northeastsitesolutions.com

cc: Bay Communications II, LLC
LEETE ASSOCIATES INC
Guilford Town Planner



T-MOBILE USA, INC.
 12920 SE 38TH STREET
 BELLEVUE, WA 98006
 (425) 378-4000

3142771
 7/20/2015
 2000011160

Invoice Number	Inv. Date	Description	Deductions	Voucher	Amount Paid
CKKMB00422	7/24/2015	SR CTNH805A SITING COUNCIL FIL	0.00	1101228717	625.00

DO NOT ACCEPT THIS CHECK UNLESS THE FACE FADES FROM BLACK TO RED WITH LOGO IN BACKGROUND. THE BACK OF THIS DOCUMENT HAS HEAT-SENSITIVE INK THAT CHANGES FROM ORANGE TO YELLOW.



T-MOBILE USA, INC.
 12920 SE 38th Street
 Bellevue, WA 98006
 (425) 378-4000

The Bank of New York Mellon
 Pittsburgh, PA
 60-160/433

3142771
 7/20/2015
 VID 2000011160

PAY **\$625.00**
SIX TWO FIVE DOLLARS AND NO CENTS

***\$625.00**

Six Hundred Twenty Five Dollars Only**

To
 The
 Order
 Of

CONNECTICUT SITING COUNCIL
 10 FRANKLIN SQ
 NEW BRITAIN, CT 06051

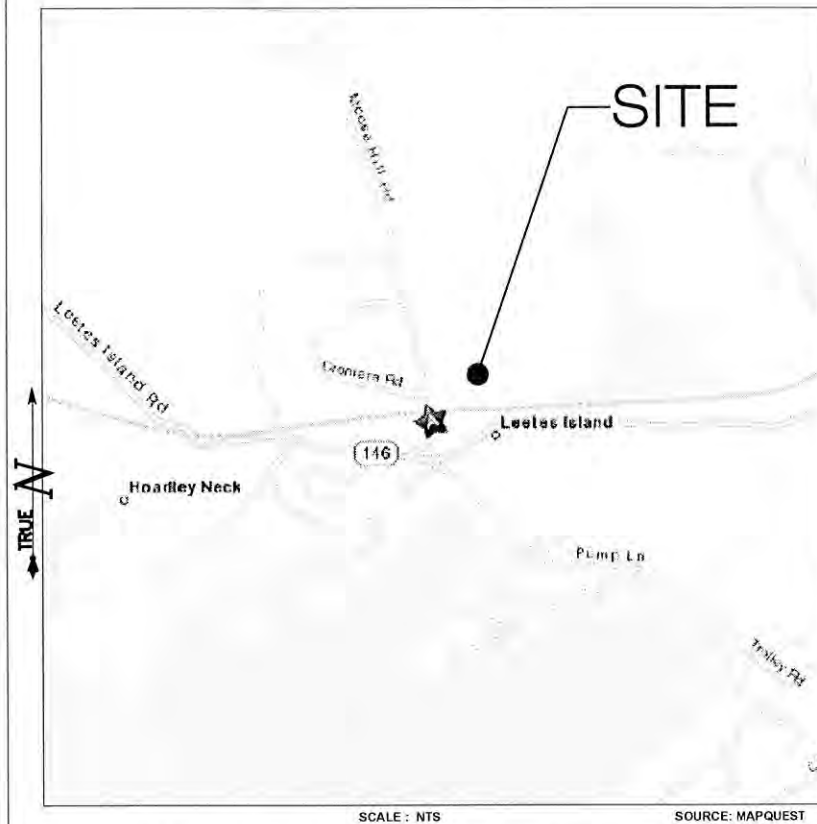
VOID AFTER 180 DAYS
 THIS CHECK CLEARS THROUGH POSITIVE PAY

David Street

⑈0003142771⑈ ⑆043301601⑆ 013⑈8430⑈

Exhibit A

LOCATION MAP



T-Mobile

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

OFFICE: (860)-692-7100
FAX: (860)-692-7159



3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
WWW.ALLPOINTSTECH.COM

PHONE: (860)-663-1697
FAX: (860)-663-0935

CONTACT PERSONNEL

APPLICANT:
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

LANDLORD:
BAY COMMUNICATIONS II, LLC
391 OAKLAND STREET
SECOND FLOOR
MANSFIELD, MA 02048
(203) 337-5991

T-MOBILE PROJECT MANAGER:
JOE CARBONELL (860) 463-3175

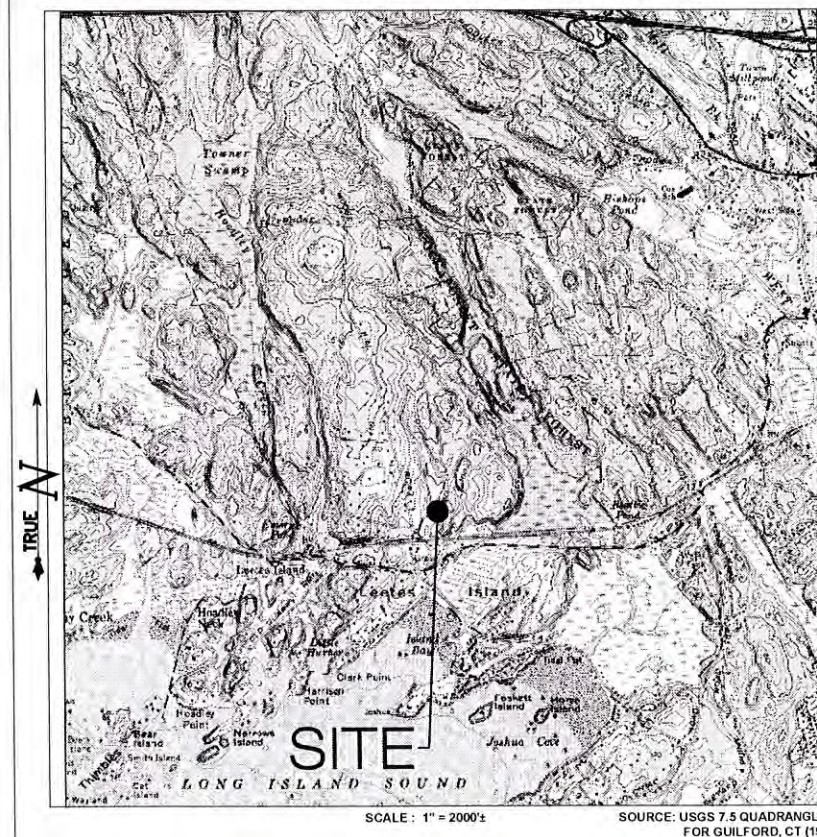
POWER PROVIDER:
EVERSOURCE (800) 286-2000

TELCO PROVIDER:
FRONTIER COMMUNICATIONS: (877)-689-8778

CALL BEFORE YOU DIG:
(800) 922-4455

GOVERNING CODES:
2009 CONNECTICUT BUILDING CODE (2003 IBC BASIS)
2011 NATIONAL ELECTRIC CODE
EIA/TIA 222F
U.S. ARMY CORPS OF ENGINEERS
PERMIT NUMBER: NAE-2014-214

USGS TOPOGRAPHIC MAP



DRAWING INDEX

- T-1 TITLE SHEET & INDEX
- SP-1 SITE PLAN
- SP-2 COMPOUND PLAN & TOWER ELEVATION
- C-1 T-MOBILE EQUIPMENT PLAN & DETAILS
- S-1 COMPOUND DETAILS
- E-1 RISER DIAGRAMS, SITE UTILITY PLAN & DETAILS
- E-2 GROUNDING PLAN & DETAILS

SITE INFORMATION

CTNH805A
GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

*SITE INFORMATION:

-SITE NAME: GUILFORD
-SITE ID NUMBER: CTNH805A
-SITE ADDRESS: MOOSE HILL ROAD
GUILFORD, CT 06437

-ZONE: R-B
-LATITUDE: 41° 16' 02.88" N
-LONGITUDE: 72° 42' 57.81" W
-ELEVATION: 52± AMSL
-FEMA/FIRM DESIGNATION: ZONE C
-ACREAGE: 163.0 Ac

-MAP: 66
-BLOCK: N/A
-LOT: 64

CONSTRUCTION DOCUMENTS

GUILFORD
MOOSE HILL ROAD
GUILFORD, CT 06437

TITLE SHEET
& INDEX

DESIGN TYPE:
COLOCATION

APT FILING NUMBER: CT-107-1500
APT DRAWING NUMBER: CTNH805A T-1.DWG
DRAWN BY: RCB
CHECKED BY: SMC
DATE: 07/20/15

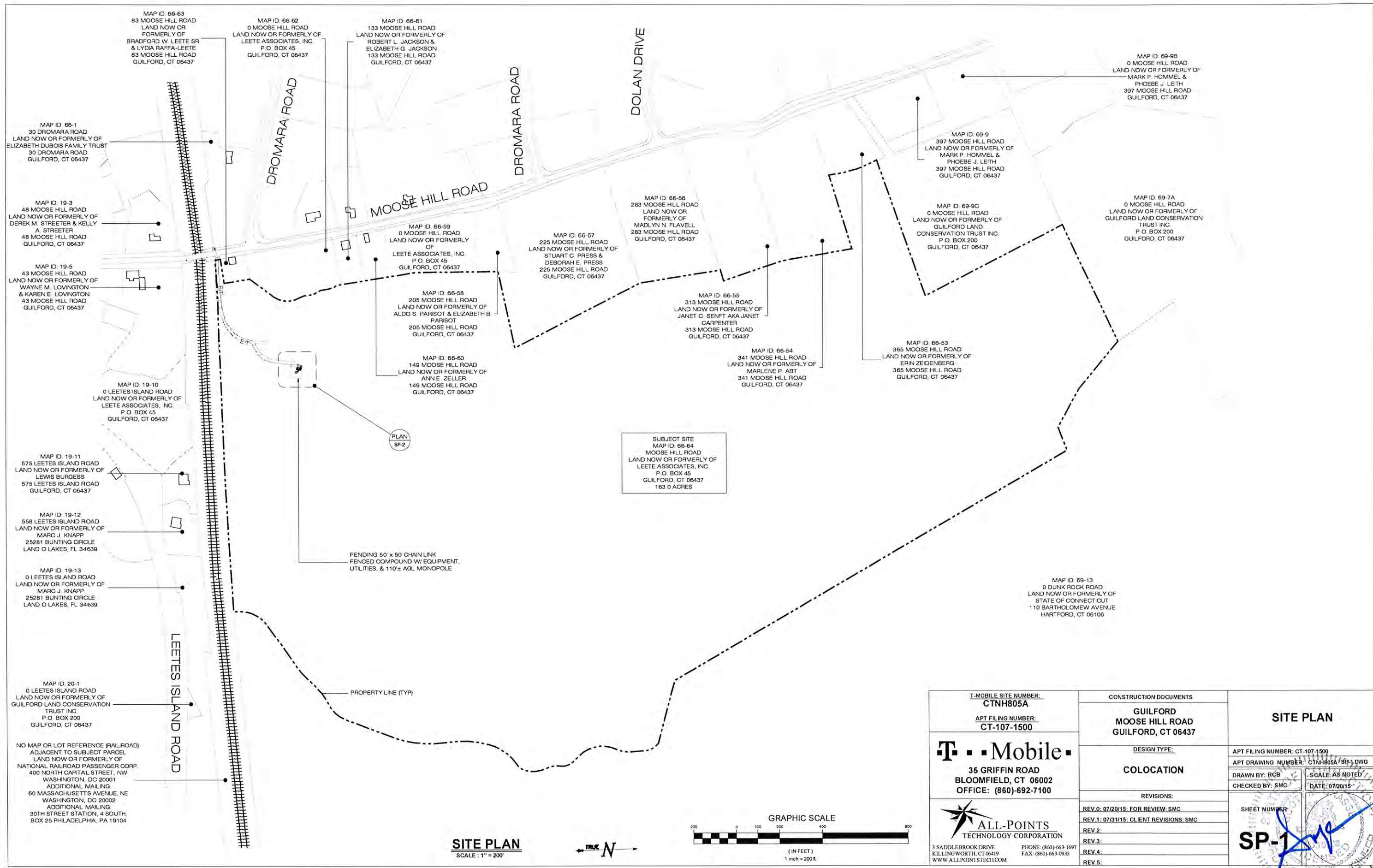
REVISIONS:

REV. 0: 07/20/15: FOR REVIEW: SMC
REV. 1: 07/31/15: CLIENT REVISIONS: SMC
REV. 2:
REV. 3:
REV. 4:
REV. 5:

SHEET NUMBER:

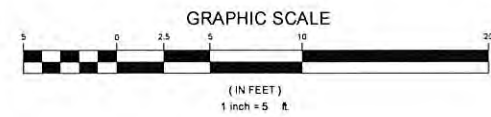
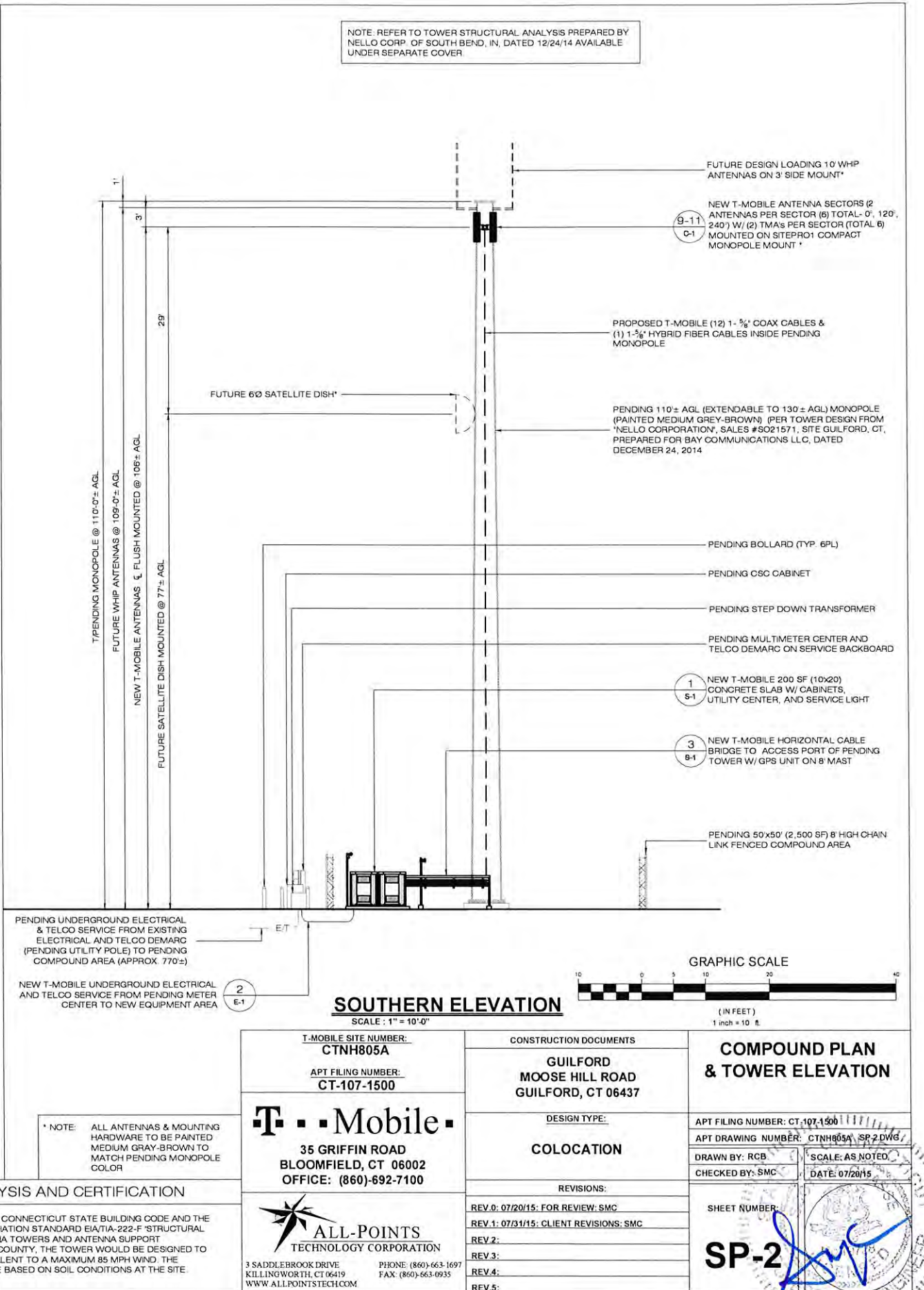
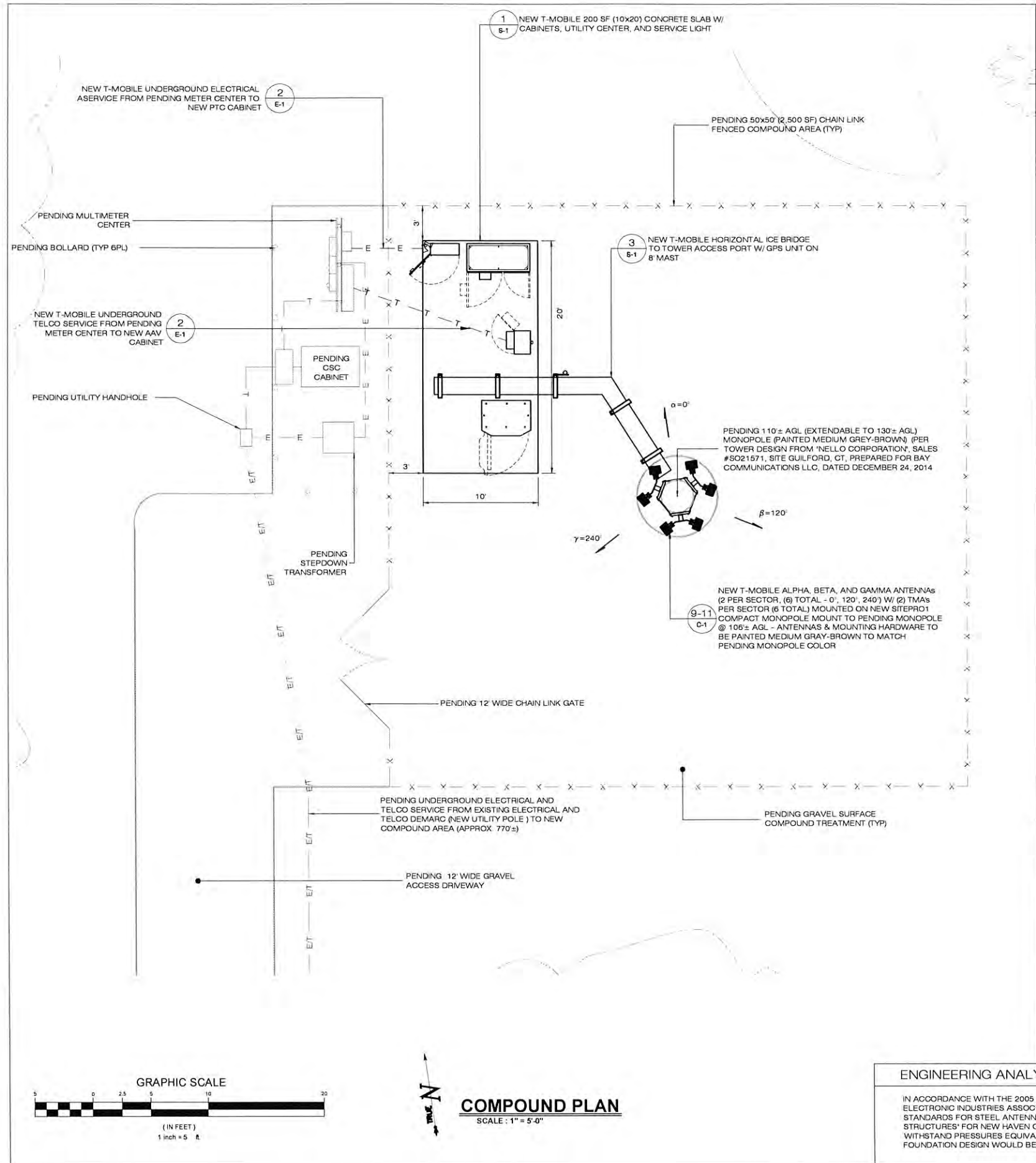
T-1





T-MOBILE SITE NUMBER: CTNH805A APT FILING NUMBER: CT-107-1500	CONSTRUCTION DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	SITE PLAN
T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	DESIGN TYPE: COLOCATION	APT FILING NUMBER: CT-107-1500 APT DRAWING NUMBER: CTNH805A SP-1.DWG DRAWN BY: RCB CHECKED BY: SMG SCALE: AS NOTED DATE: 07/20/15
ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	REVISIONS: REV. 0: 07/20/15: FOR REVIEW: SMC REV. 1: 07/31/15: CLIENT REVISIONS: SMC REV. 2: REV. 3: REV. 4: REV. 5:	SHEET NUMBER: SP-1



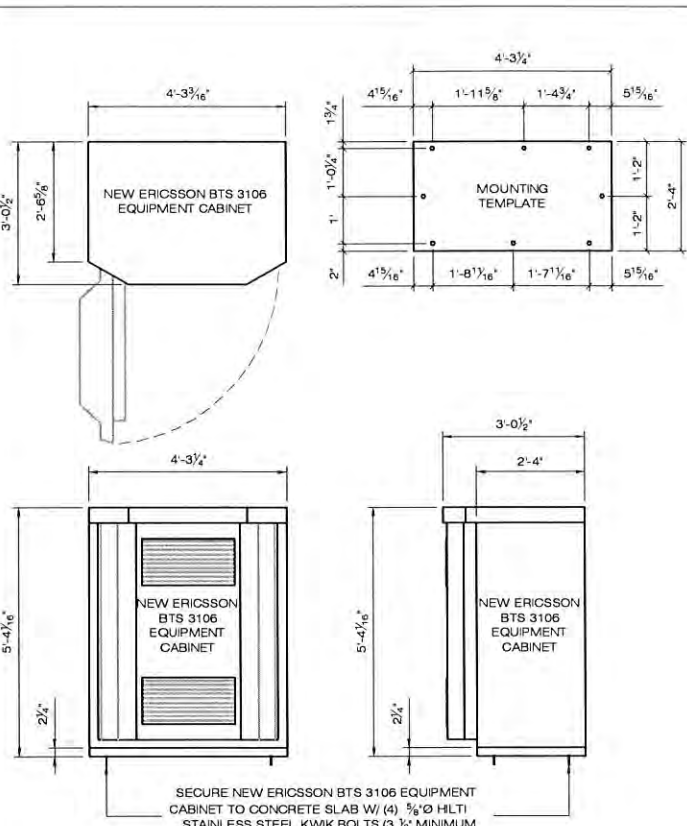


COMPOUND PLAN
SCALE: 1" = 5'-0"

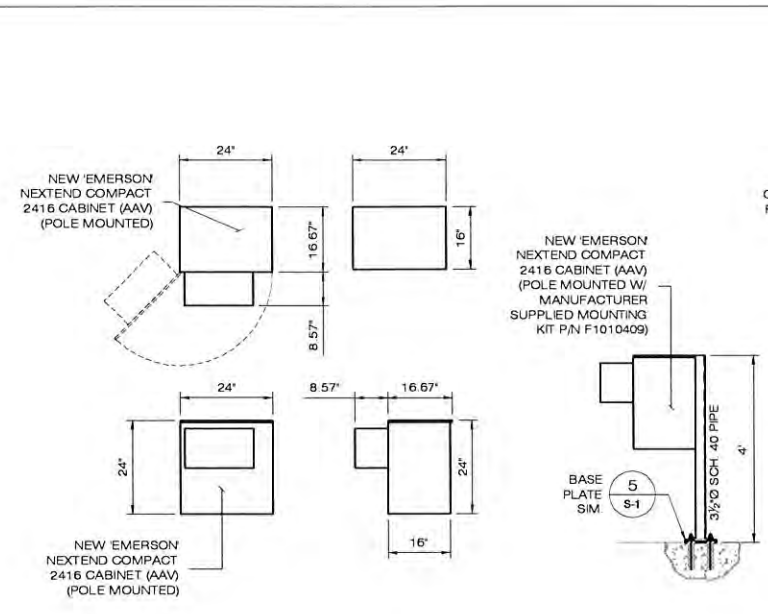
ENGINEERING ANALYSIS AND CERTIFICATION

IN ACCORDANCE WITH THE 2005 CONNECTICUT STATE BUILDING CODE AND THE ELECTRONIC INDUSTRIES ASSOCIATION STANDARD EIA/TIA-222-F 'STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORT STRUCTURES' FOR NEW HAVEN COUNTY, THE TOWER WOULD BE DESIGNED TO WITHSTAND PRESSURES EQUIVALENT TO A MAXIMUM 85 MPH WIND. THE FOUNDATION DESIGN WOULD BE BASED ON SOIL CONDITIONS AT THE SITE.

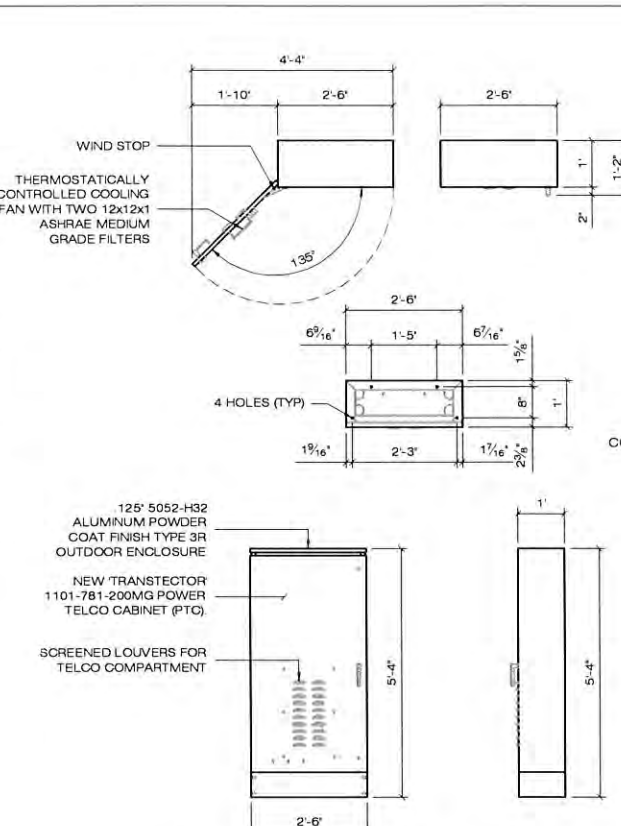
T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	CONSTRUCTION DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	COMPOUND PLAN & TOWER ELEVATION APT FILING NUMBER: CT-107-1500 APT DRAWING NUMBER: CTNH805A, SP 2 DWG DRAWN BY: RCB CHECKED BY: SMC DATE: 07/20/15 SCALE: AS NOTED
	DESIGN TYPE: COLOCATION	
ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	REVISIONS: REV. 0: 07/20/15: FOR REVIEW: SMC REV. 1: 07/31/15: CLIENT REVISIONS: SMC REV. 2: REV. 3: REV. 4: REV. 5:	REGISTERED PROFESSIONAL ENGINEER



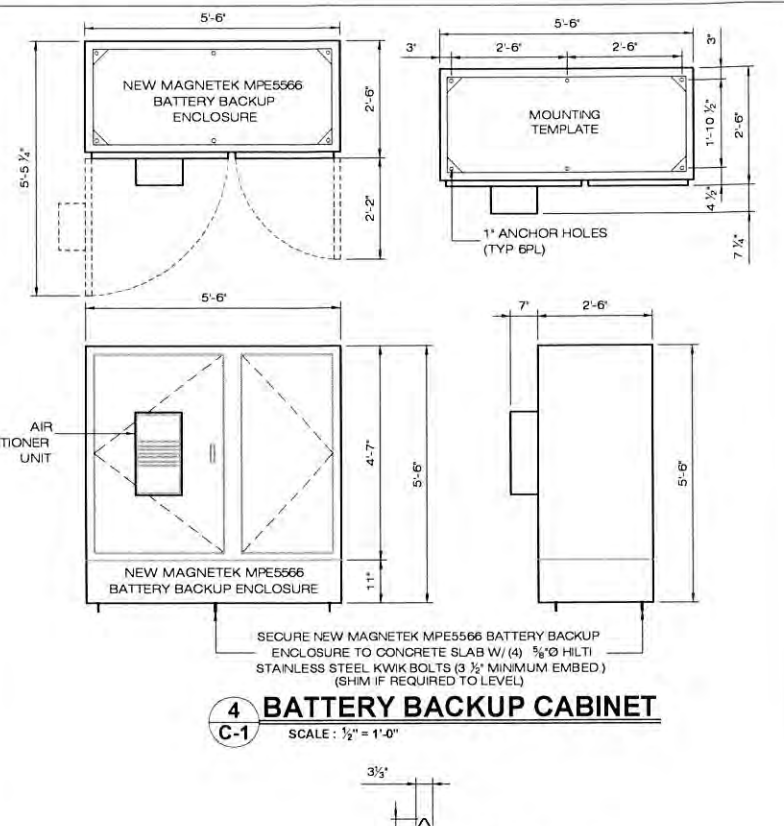
1 ERICSSON RBS 3106 EQUIPMENT CABINET
 C-1 SCALE: 1/2" = 1'-0"



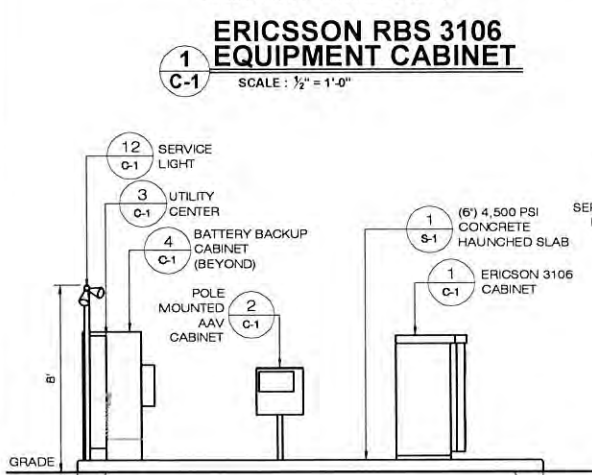
2 EMERSON AAV 2416 EQUIPMENT CABINET
 C-1 SCALE: 1/2" = 1'-0"



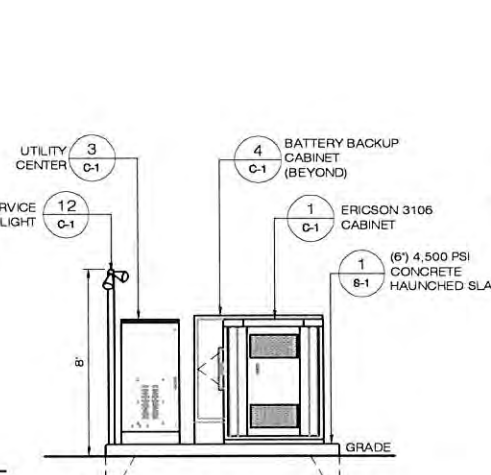
3 TRANSECTOR PTC CABINET
 C-1 SCALE: 1/2" = 1'-0"



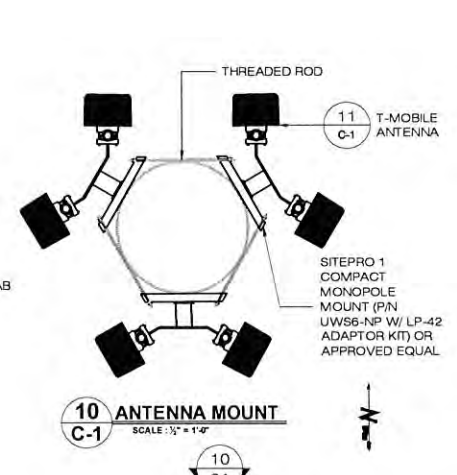
4 BATTERY BACKUP CABINET
 C-1 SCALE: 1/2" = 1'-0"



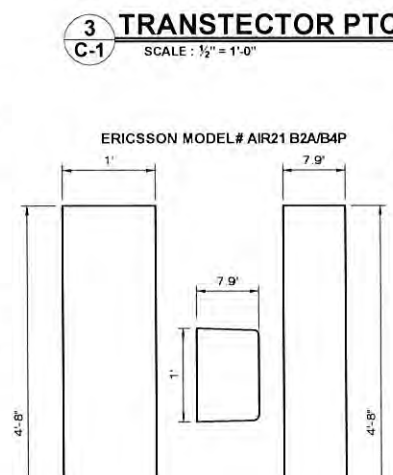
5 WESTERN ELEVATION
 C-1 SCALE: 1/4" = 1'-0"



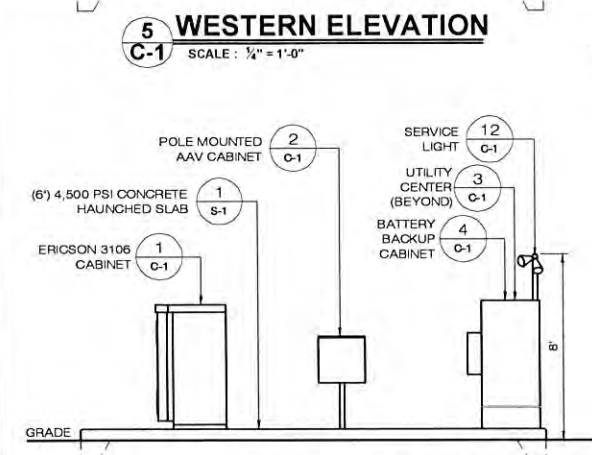
6 SOUTHERN ELEVATION
 C-1 SCALE: 1/4" = 1'-0"



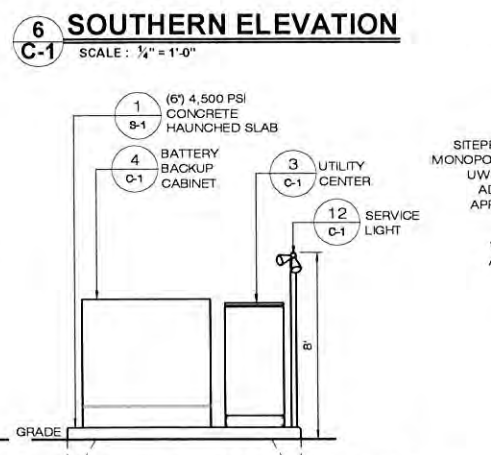
10 ANTENNA MOUNT
 C-1 SCALE: 1/2" = 1'-0"



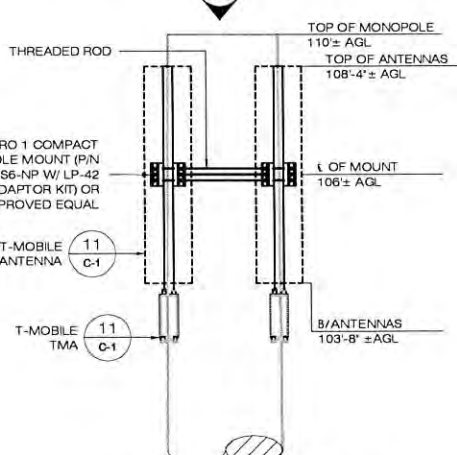
11 TYPICAL PANEL ANTENNA & TMA
 C-1 SCALE: NTS



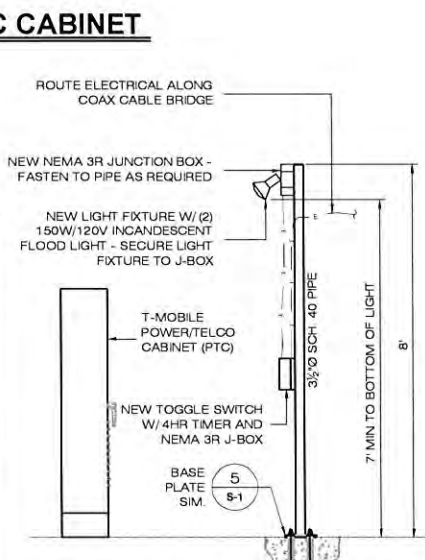
7 EASTERN ELEVATION
 C-1 SCALE: 1/4" = 1'-0"



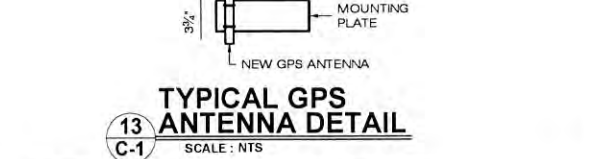
8 NORTHERN ELEVATION
 C-1 SCALE: 1/4" = 1'-0"



9 ANTENNA MOUNT
 C-1 SCALE: 1/2" = 1'-0"



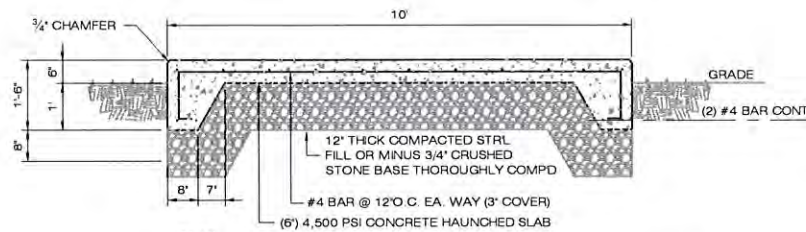
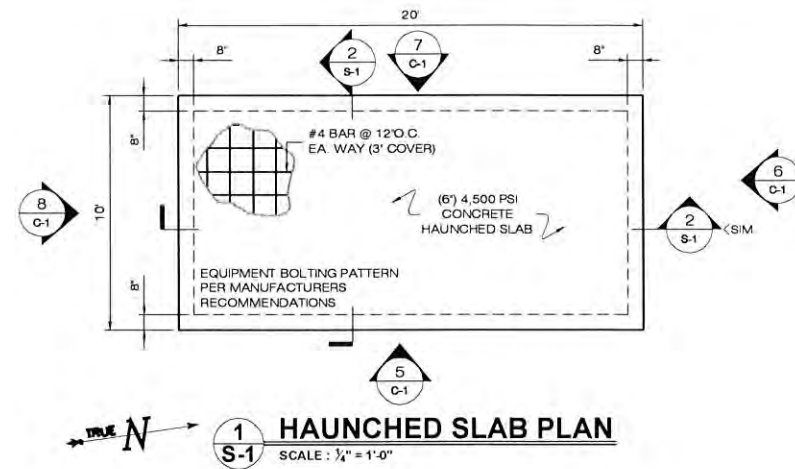
12 SERVICE LIGHT
 C-1 SCALE: 1/2" = 1'-0"



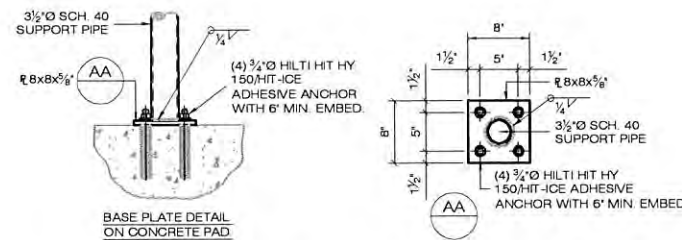
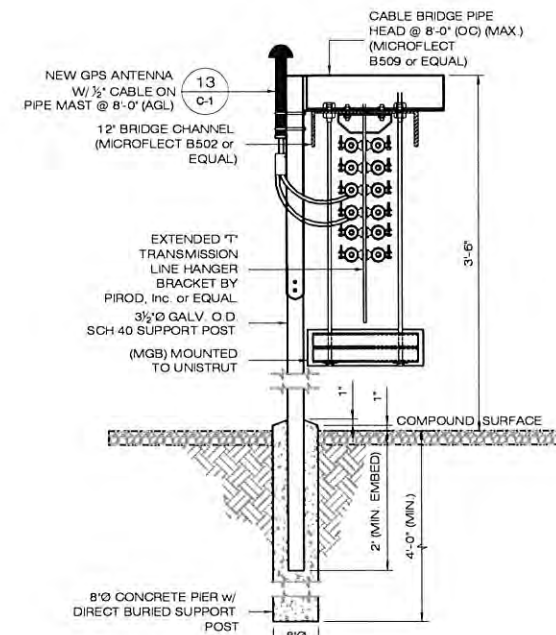
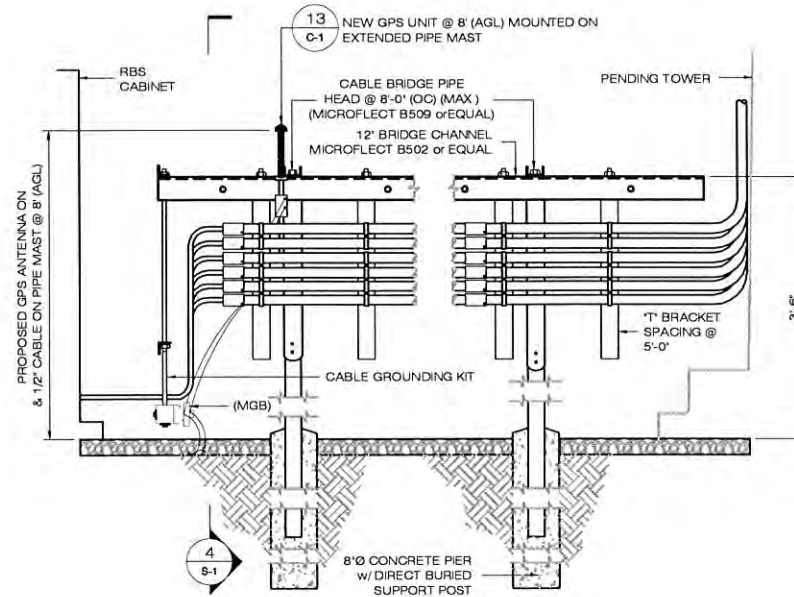
13 TYPICAL GPS ANTENNA DETAIL
 C-1 SCALE: NTS

DESIGN LOAD CRITERIA	
EQUIPMENT SHELTER SHALL BE DESIGNED AND MANUFACTURED TO MEET ALL STATE AND LOCAL CODES. ITS LAYOUT SHALL BE COORDINATED WITH CARRIERS.	
DESIGN BASIS	CONNECTICUT STATE BUILDING CODE
GOVERNING CODE	40 PSF (ASCE 7-02)
DESIGN LIVE LOADS	II
IMPORTANCE CATEGORY	
SNOW LOAD	30 PSF
GROUND SNOW LOAD (Pg)	1.0
IMPORTANCE FACTOR	0.9
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	
WIND LOAD	110 MPH (3 SECOND GUST) / 85 MPH (FASTEST MILE)
BASIC WIND LOAD	C
EXPOSURE GROUP	1.00
IMPORTANCE FACTOR	
EQUIPMENT LOAD	9,000 LBS
EQUIPMENT DL	
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	I
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.229
MCE SPECTRAL ACCELERATION SHORT (S)	0.060
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR	1.0

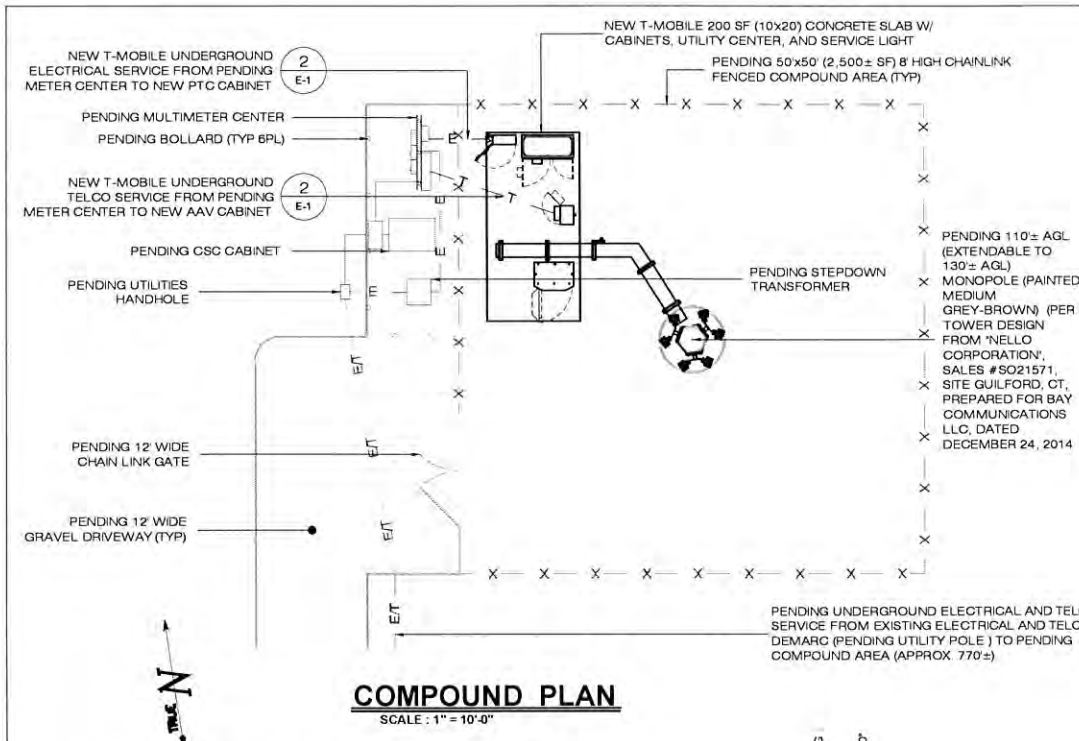
T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNH805A APT FILING NUMBER: CT-107-1500	CONSTRUCTION DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	T-MOBILE EQUIPMENT PLAN & DETAILS	
	COLOCATION	APT FILING NUMBER: CT-107-1500 APT DRAWING NUMBER: CTNH805A C-1.DWG DRAWN BY: RCB CHECKED BY: SMC DATE: 07/20/15	SCALE: AS NOTED	
	REVISIONS: REV. 0: 07/20/15: FOR REVIEW: SMC REV. 1: 07/31/15: CLIENT REVISIONS: SMC REV. 2: REV. 3: REV. 4: REV. 5:	SHEET NUMBER C-1	PROFESSIONAL ENGINEER	
	ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	PHONE (860)-663-1697 FAX (860)-663-0935	SHEET NUMBER C-1	PROFESSIONAL ENGINEER
	T-Mobile logo	ALL-POINTS TECHNOLOGY CORPORATION logo	SHEET NUMBER C-1	PROFESSIONAL ENGINEER



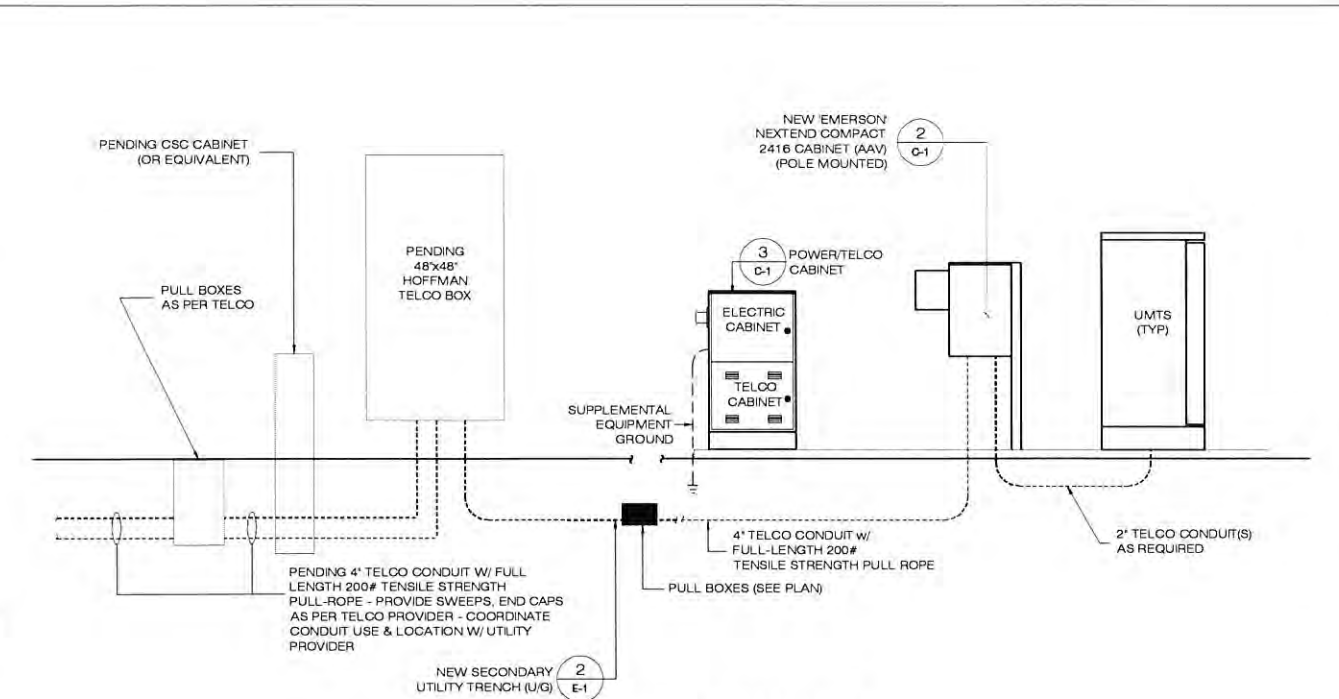
- NOTES:**
1. CONCRETE SHALL BE Fc = 4,500 PSI (MIN) @ 28 DAYS WITH MAXIMUM WATER/CEMENT (W/C) RATIO = 0.45 AND AIR ENTRAINMENT IN ACCORDANCE WITH IBC SECTION 1904 "DURABILITY REQUIREMENTS".
 2. DEFORMED REINFORCING BARS SHALL BE FABRICATED WITHOUT SPLICES. SUPPORT BAR MAT ON CONCRETE BRICK.
 3. ALL INTERSECTING BARS SHALL BE TIED. TURN ENDS OF TIE WIRE AWAY FROM EXPOSED SURFACES.



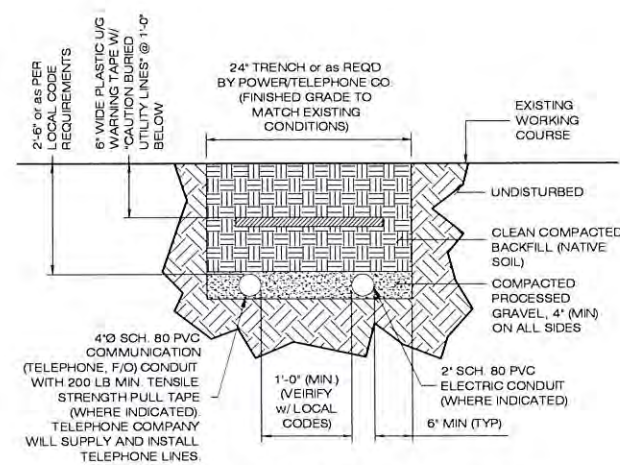
T-MOBILE SITE NUMBER: CTNH805A APT FILING NUMBER: CT-107-1500	CONSTRUCTION DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	COMPOUND DETAILS
T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	DESIGN TYPE: COLOCATION	APT FILING NUMBER: CT-107-1500 APT DRAWING NUMBER: CTNH805A S-1 DWG DRAWN BY: RCB CHECKED BY: SMC DATE: 07/20/15
	REVISIONS: REV. 0: 07/20/15: FOR REVIEW: SMC REV. 1: 07/31/15: CLIENT REVISIONS: SMC REV. 2: REV. 3: REV. 4: REV. 5:	SHEET NUMBER S-1
ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	PHONE: (860)-663-1697 FAX: (860)-663-0935	



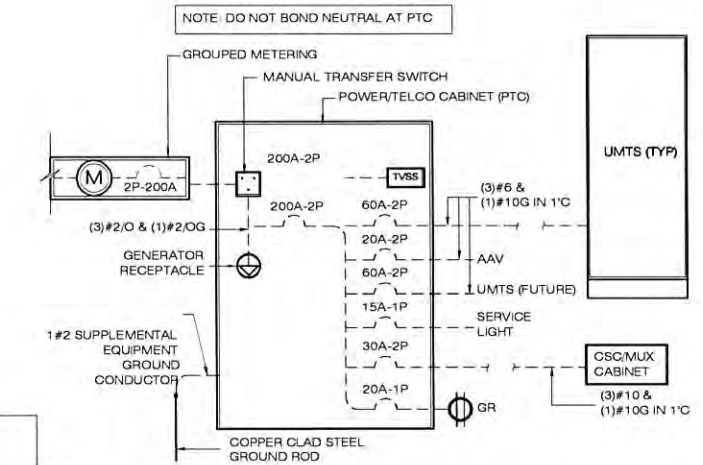
COMPOUND PLAN
SCALE: 1" = 10'-0"



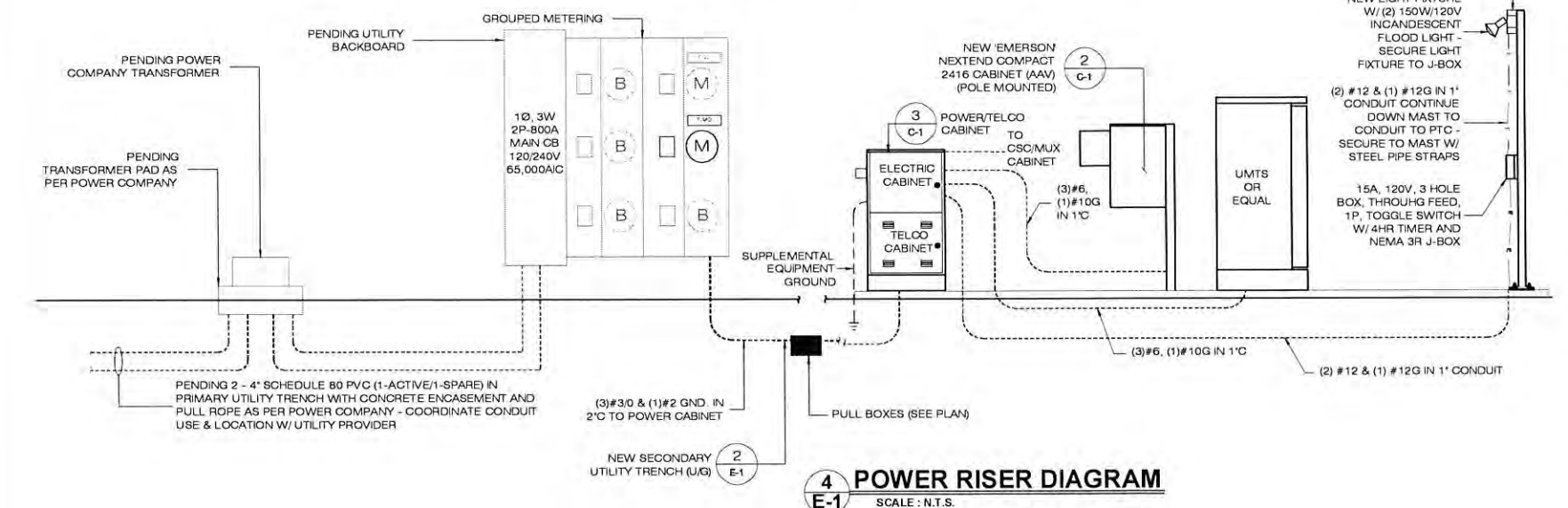
1 TELCO RISER DIAGRAM
SCALE: N.T.S.



2 SECONDARY TRENCH DETAIL
SCALE: N.T.S.



3 ONE LINE DIAGRAM
SCALE: N.T.S.



4 POWER RISER DIAGRAM
SCALE: N.T.S.

ELECTRICAL LEGEND	
UNLESS OTHERWISE NOTED WEATHERPROOF	NEW PANEL BOARD, SURFACE MOUNTED
GROUND FAULT INTERRUPTER	EXISTING PANEL BOARD, SURFACE MOUNTED
AMPERE	VOLT
KILOWATT - HOUR	CONDJIT
GROUND	GROUND
GROUND	GROUND
MASTER GROUND BAR	1/4"x8"x24" COPPER
1/4"x8"x24" COPPER	1/2"x4"x12" OR 1/2"x4"x18" COPPER
GROUND COPPER WIRE, SIZE AS NOTED	EXPOSED WIRING
COAXIAL CABLE	5/8"x8" COPPER CLAD STEEL GROUND ROD
EXOTHERMIC (CADWELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION	
	NEW PANEL BOARD, SURFACE MOUNTED
	EXISTING PANEL BOARD, SURFACE MOUNTED
	DRY TYPE TRANSFORMER
	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR W/ BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
	EXPOSED WIRING
	HOME RUNS, MINIMUM 2#10 + 1#10G IN 3/4" CONDUIT U.O.N.
	ABOVE FINISHED FLOOR

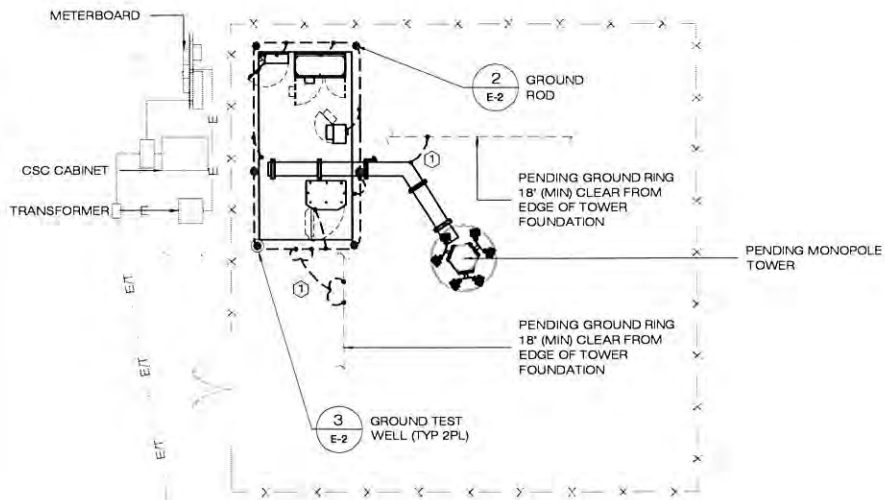
ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE & LOCAL CODES
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED & PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR & MATERIAL DESCRIBED BY DRAWINGS & SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING & APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, & IS RESPONSIBLE FOR OBTAINING SAID PERMITS & COORDINATION OF INSPECTIONS.
- ELECTRICAL & TELCO WIRING OUTSIDE A BUILDING & EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) & WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 80 PVC U.O.N.
- ELECTRICAL WIRING SHALL BE COPPER W/ TYPE XH-HW, THWN, OR THIN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT & LESSEE/LICENSEE CELL SITE POWER PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION W/ UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT & LESSEE/LICENSEE CELL SITE TELCO CABINET & BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE @ EACH END.
- WHERE CONDUIT BETWEEN BTS & LESSEE/LICENSEE CELL SITE POWER PEDESTAL & BETWEEN BTS & LESSEE/LICENSEE CELL SITE TELCO SERVICE CABINET ARE UIG USE PVC, SCH. 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE
- POWER PEDESTAL SUPPLIED BY LESSEE/LICENSEE
- GROUNDING SHALL COMPLY W/ NEC ART. 250
- GROUND COAXIAL CABLE SHIELDS MINIMUM @ BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY LESSEE/LICENSEE
- USE #6 COPPER STRANDED WIRE W/ GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) & #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT W/ GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST & STRAIGHTEST PATH POSSIBLE. EXCEPT AS OTHERWISE INDICATED, GROUNDING LEADS SHOULD NEVER BE BENT @ RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT @ 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS W/IN 7 FEET OF LESSEE/LICENSEE EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO GROUND BARS SHALL BE MADE W/ TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, & ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- BOND ANTENNA EGGS & MGB TO GROUND RING.
- TEST COMPLETED GROUND SYSTEM & RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.

T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNH805A APT FILING NUMBER: CT-107-1500	CONSTRUCTION DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	RISER DIAGRAMS, SITE UTILITY PLAN & DETAILS APT FILING NUMBER: CT-107-1500 APT DRAWING NUMBER: CTNH805A E-110WQ DRAWN BY: RCB CHECKED BY: SMC DATE: 07/20/15
	DESIGN TYPE: COLOCATION	REVISIONS: REV. 0: 07/20/15: FOR REVIEW: SMC REV. 1: 07/31/15: CLIENT REVISIONS: SMC REV. 2: REV. 3: REV. 4: REV. 5:	

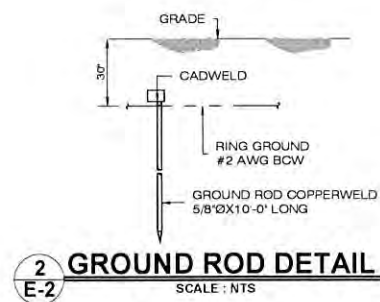
ALL-POINTS TECHNOLOGY CORPORATION
 3 SADDLEBROOK DRIVE
 KILLINGWORTH, CT 06419
 WWW.ALLPOINTSTECH.COM
 PHONE: (860)-663-1697
 FAX: (860)-663-0935



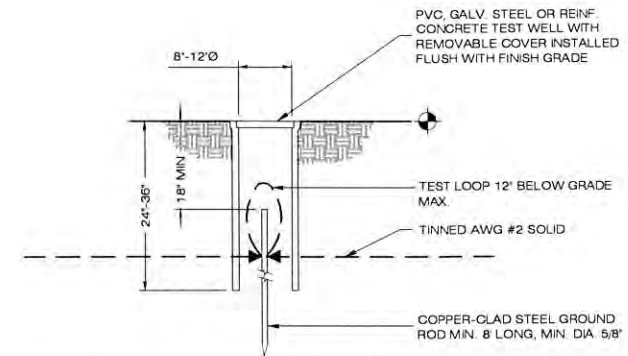


- ① #2 BARE, TINNED, SOLID COPPER GROUND 30" BELOW GRADE (MIN)
- GROUND ROD - 3/4" x 10' W/CADWELD GROUND CONNECTION
- ▲ CADWELD GROUND CONNECTION
- COMPRESSION GROUND CONNECTION
- TEST GROUND WELL

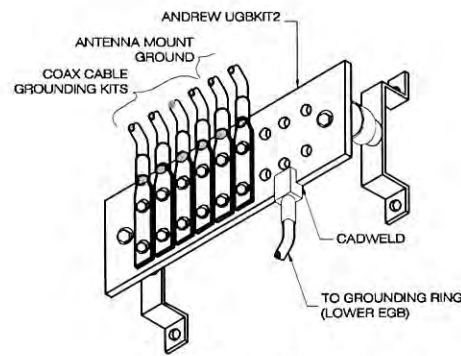
1 TOWER GROUNDING PLAN
SCALE: 1" = 10'-0"



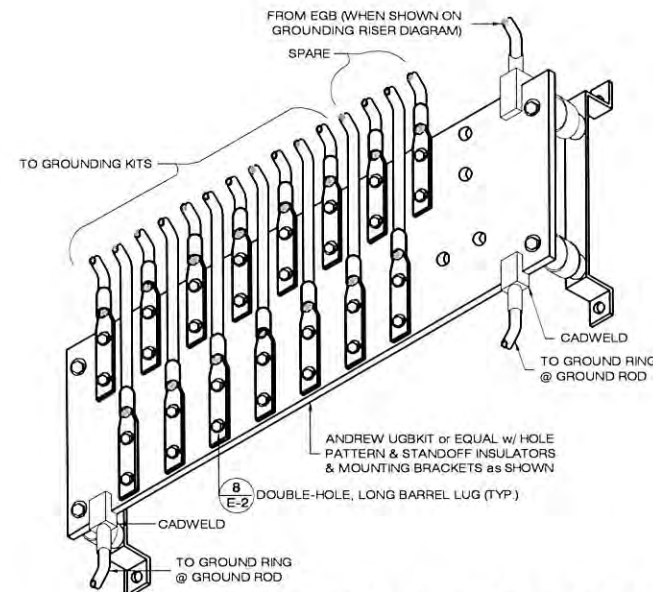
2 GROUND ROD DETAIL
SCALE: N.T.S.



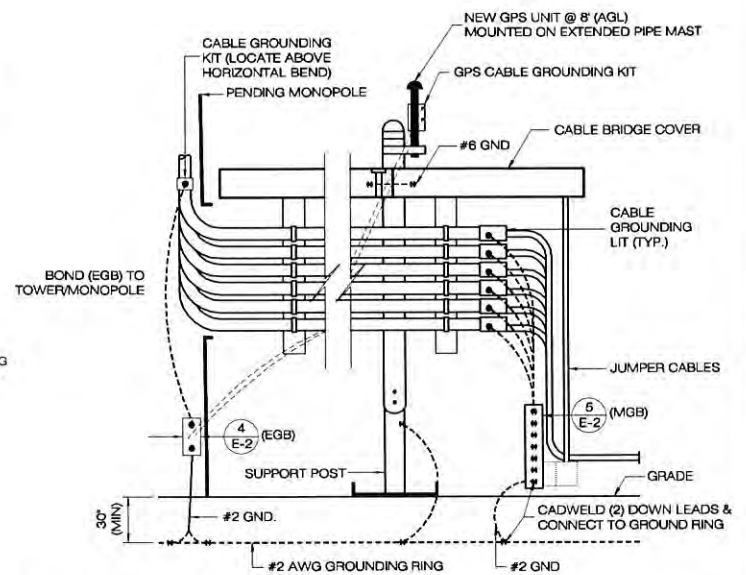
3 GROUND SYSTEM TESTING WELL
SCALE: N.T.S.



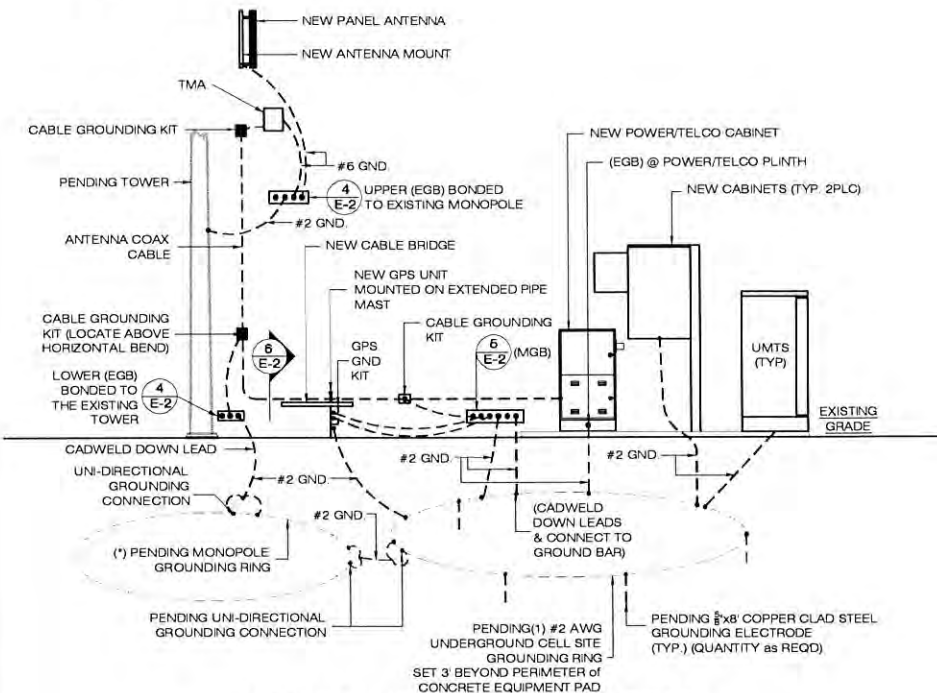
4 (EGB) EQUIPMENT GROUND BAR
SCALE: N.T.S.



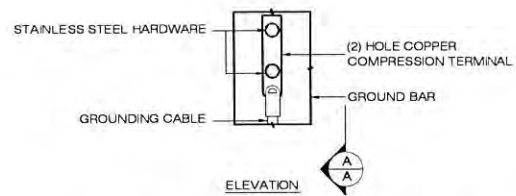
5 (MGB) MASTER GROUND BAR
SCALE: N.T.S.



6 CABLE BRIDGE GROUNDING DETAIL
SCALE: N.T.S.



7 GROUNDING RISER DIAGRAM
SCALE: N.T.S.



8 GROUND BAR CONNECTION DETAIL
SCALE: N.T.S.

- NOTES:
- 1) "DOUBLING UP" or "STACKING" of CONNECTIONS IS NOT PERMITTED
 - 2) OXIDE INHIBITING COMPOUND TO BE USED @ ALL LOCATIONS
 - 3) CADWELD DOWN LEADS FROM UPPER EGB, LOWER EGB & MGB.

T-MOBILE SITE NUMBER: CTNH805A	CONSTRUCTION DOCUMENTS GUILFORD MOOSE HILL ROAD GUILFORD, CT 06437	GROUNDING PLAN & DETAILS
APT FILING NUMBER: CT-107-1500	DESIGN TYPE: COLOCATION	
T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	REVISIONS: REV. 0: 07/20/15: FOR REVIEW: SMC REV. 1: 07/31/15: CLIENT REVISIONS: SMC REV. 2: REV. 3: REV. 4: REV. 5:	APT DRAWING NUMBER: CTNH805A E-2.DWG DRAWN BY: RCB CHECKED BY: SMC DATE: 07/20/15
ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	PHONE: (860)-663-1697 FAX: (860)-663-0935	SHEET NUMBER: E-2



Exhibit B



N E L L O

Design Supporting Calculations

Sales Order: SO21571

Drawing Number(s)

Tower: 147997

Foundation: 147998

Order Description: NTP 55 x 109' ext 129'

Site Name: Guilford, CT

Location: New Haven

Prepared For:

Customer: Bay Communications, LLC

Contact: Toby Slagle

Date: 12/24/2014



Table of Contents

Tower Analysis - Short form

Tower Analysis - Long form

Foundation Analysis

Section	1	2	3	4	
Length (ft)	20.00	48.14	20.00	52.74	
Number of Sides	18	18	18	18	
Thickness (in)	0.1875	0.2500	0.3125	0.3125	
Socket Length (ft)		5.73	6.14	42.5358	
Top Dia (in)	24.9760	29.8760	39.7655	55.4659	
Bot Dia (in)	29.8760	41.6692	44.6654	9531.6	
Grade		A572-65			
Weight (lb)	1213.5	5078.6	3111.4	18935.2	

129.0 ft

109.0 ft

60.9 ft

46.6 ft

0.0 ft

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
10' Lightning Rod	129	(2) RRUS-11	98
101-83B-09-0-03	129	(2) RRUS-11	98
Clamp Ring Assembly	129	(2) RRUS-11	98
Panel-72x12x9	126	RR-RM1560 - 6 Sector Ring Mount	98
Panel-72x12x9	126		
Panel-72x12x9	126	Panel-72x12x9	96
(3) RRUS-11	126	Panel-72x12x9	96
(3) RRUS-11	126	Panel-72x12x9	96
(3) RRUS-11	126	RRUS-11	96
Low-Profile Platform 14'	126	RRUS-11	96
Panel-72x12x9	116	RRUS-11	96
Panel-72x12x9	116	Clamp Ring Assembly	96
Panel-72x12x9	116	(2) RRUS-11	88
(3) RRUS-11	116	(2) RRUS-11	88
(3) RRUS-11	116	(2) RRUS-11	88
(3) RRUS-11	116	RR-RM1560 - 6 Sector Ring Mount	88
Low-Profile Platform 14'	116		
10' Whip	108	Panel-72x12x9	86
Clamp Ring Assembly	108	Panel-72x12x9	86
10' Whip	108	Panel-72x12x9	86
Clamp Ring Assembly	108	RRUS-11	86
(2) AIR-21	106	RRUS-11	86
(2) AIR-21	106	RRUS-11	86
(2) AIR-21	106	Clamp Ring Assembly	86
TMA - 10"x6"x3"	106	Dish Pipe Mount	76
TMA - 10"x6"x3"	106	Clamp Ring Assembly	76
TMA - 10"x6"x3"	106	6' Solid w/Radome	76
Clamp Ring Assembly	106		

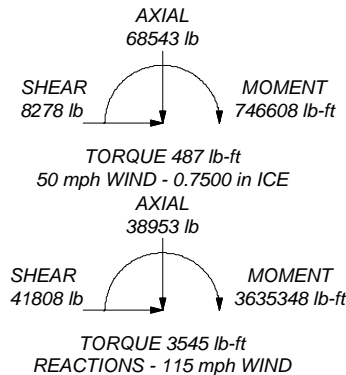
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-G Standard.
2. Tower designed for a 115 mph basic wind in accordance with the TIA-222-G Standard.
3. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Structure Class III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 98.6%

ALL REACTIONS ARE FACTORED



Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860		Job: SO15543/SO21571; Tower 147997; Foundation 147998
		Project: NTP 109' Extendable 129' Guilford, CT - New Haven Co., CT
Client: Bay Communications, LLC	Drawn by: Tony2 tnxTower 6.1.2.0	App'd:
Code: TIA-222-G	Date: 12/22/14	Scale: NTS
Path: N:\eri\1479\147997.future.eri		Dwg No. E-1

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 1 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Tower Input Data

There is a pole section.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

- Basic wind speed of 115 mph.
- Structure Class III.
- Exposure Category C.
- Topographic Category 1.
- Crest Height 0.00 ft.
- Nominal ice thickness of 0.7500 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

<ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity √ Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) Add IBC .6D+W Combination 	<ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r √ Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. √ Autocalc Torque Arm Areas √ SR Members Have Cut Ends Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing 	<ul style="list-style-type: none"> Treat Feedline Bundles As Cylinder Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces √ Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation Consider Feedline Torque Include Angle Block Shear Check <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets
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Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	129.00-109.00	20.00	0.00	18	24.9760	29.8760	0.1875	0.7500	A572-65 (65 ksi)
L2	109.00-60.86	48.14	5.73	18	29.8760	41.6692	0.2500	1.0000	A572-65 (65 ksi)
L3	60.86-46.59	20.00	6.14	18	39.7655	44.6654	0.3125	1.2500	A572-65

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 2 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L4	46.59-0.00	52.74		18	42.5358	55.4559	0.3125	1.2500	(65 ksi) A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	25.3613	14.7522	1145.2356	8.7999	12.6878	90.2628	2291.9782	7.3775	4.0658	21.684
	30.3369	17.6683	1967.4736	10.5394	15.1770	129.6353	3937.5360	8.8359	4.9282	26.284
L2	30.3369	23.5082	2606.7653	10.5172	15.1770	171.7577	5216.9607	11.7563	4.8182	19.273
	42.3120	32.8661	7123.4256	14.7038	21.1679	336.5195	14256.2245	16.4362	6.8938	27.575
L3	41.8043	39.1324	7695.4298	14.0058	20.2008	380.9459	15400.9855	19.5699	6.4487	20.636
	45.3545	43.9926	10933.5657	15.7453	22.6900	481.8662	21881.5180	22.0005	7.3111	23.396
L4	44.7198	41.8802	9433.0101	14.9893	21.6082	436.5482	18878.4323	20.9441	6.9363	22.196
	56.3114	54.6954	21012.4131	19.5759	28.1716	745.8717	42052.4749	27.3529	9.2102	29.473

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in
ft	ft ²	in						
L1 129.00- 109.00				1	1	1.1		
L2 109.00- 60.86				1	1	1.1		
L3 60.86-46.59				1	1	1.1		
L4 46.59-0.00				1	1	1.1		

Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	14
Embedment length	60.0000 in
f _c	3 ksi
Grout space	0.5000 in
Base plate grade	A572-50
Base plate thickness	2.5000 in
Bolt circle diameter	62.5000 in
Outer diameter	68.5000 in
Inner diameter	52.0000 in
Base plate type	Plain Plate

Feed Line/Linear Appurtenances - Entered As Area

Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 3 of 89
Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
LDF7-50A (1-5/8 FOAM)	B	No	Inside Pole	126.00 - 0.00	12	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	A	No	Inside Pole	116.00 - 0.00	12	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	C	No	Inside Pole	109.00 - 0.00	1	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	B	No	Inside Pole	106.00 - 0.00	12	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	C	No	Inside Pole	96.00 - 0.00	12	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	A	No	Inside Pole	86.00 - 0.00	12	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	A	No	Inside Pole	76.00 - 0.00	1	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
						1" Ice	0.00	0.82

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	129.00-109.00	A	0.000	0.000	0.000	0.000	68.88
		B	0.000	0.000	0.000	0.000	167.28
		C	0.000	0.000	0.000	0.000	0.00
L2	109.00-60.86	A	0.000	0.000	0.000	0.000	733.40
		B	0.000	0.000	0.000	0.000	917.79
		C	0.000	0.000	0.000	0.000	385.21
L3	60.86-46.59	A	0.000	0.000	0.000	0.000	292.54
		B	0.000	0.000	0.000	0.000	280.84
		C	0.000	0.000	0.000	0.000	152.12
L4	46.59-0.00	A	0.000	0.000	0.000	0.000	955.17
		B	0.000	0.000	0.000	0.000	916.97
		C	0.000	0.000	0.000	0.000	496.69

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	129.00-109.00	A	2.131	0.000	0.000	0.000	0.000	68.88
		B		0.000	0.000	0.000	0.000	167.28
		C		0.000	0.000	0.000	0.000	0.00
L2	109.00-60.86	A	2.059	0.000	0.000	0.000	0.000	733.40
		B		0.000	0.000	0.000	0.000	917.79
		C		0.000	0.000	0.000	0.000	385.21
L3	60.86-46.59	A	1.968	0.000	0.000	0.000	0.000	292.54
		B		0.000	0.000	0.000	0.000	280.84
		C		0.000	0.000	0.000	0.000	152.12
L4	46.59-0.00	A	1.812	0.000	0.000	0.000	0.000	955.17

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 4 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
		B		0.000	0.000	0.000	0.000	916.97
		C		0.000	0.000	0.000	0.000	496.69

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
---------------	----------------------	-------------	-------------------------	--------------------------	-----------------------

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
10' Lightning Rod	C	From Leg	0.00 0.00 5.00	0.0000	129.00	No Ice 2.96 1/2" Ice 4.42 1" Ice 5.88	2.96 4.42 5.88	76.00 98.73 121.46
101-83B-09-0-03	C	From Leg	0.00 0.00 0.00	0.0000	129.00	No Ice 2.91 1/2" Ice 3.76 1" Ice 4.60	2.91 3.76 4.60	45.00 77.33 109.66
Clamp Ring Assembly	C	None		0.0000	129.00	No Ice 0.01 1/2" Ice 0.01 1" Ice 0.01	0.01 0.01 0.01	231.00 340.25 449.49
Panel-72x12x9	C	From Leg	0.00 0.00 0.00	0.0000	126.00	No Ice 8.40 1/2" Ice 9.23 1" Ice 10.05	7.88 9.20 10.53	89.96 156.33 244.66
Panel-72x12x9	B	From Leg	0.00 0.00 0.00	0.0000	126.00	No Ice 8.40 1/2" Ice 9.23 1" Ice 10.05	7.88 9.20 10.53	89.96 156.33 244.66
Panel-72x12x9	A	From Leg	0.00 0.00 0.00	0.0000	126.00	No Ice 8.40 1/2" Ice 9.23 1" Ice 10.05	7.88 9.20 10.53	89.96 156.33 244.66
(3) RRUS-11	C	From Leg	0.00 0.00 0.00	0.0000	126.00	No Ice 3.79 1/2" Ice 4.16 1" Ice 4.53	1.02 1.23 1.44	55.00 80.77 106.55
(3) RRUS-11	B	From Leg	0.00 0.00 0.00	0.0000	126.00	No Ice 3.79 1/2" Ice 4.16 1" Ice 4.53	1.02 1.23 1.44	55.00 80.77 106.55
(3) RRUS-11	A	From Leg	0.00 0.00 0.00	0.0000	126.00	No Ice 3.79 1/2" Ice 4.16 1" Ice 4.53	1.02 1.23 1.44	55.00 80.77 106.55
Low-Profile Platform 14'	C	None		0.0000	126.00	No Ice 21.00 1/2" Ice 31.00 1" Ice 41.00	21.00 31.00 41.00	1106.00 1200.00 1294.00
Panel-72x12x9	C	From Leg	0.00 0.00 0.00	0.0000	116.00	No Ice 8.40 1/2" Ice 9.23 1" Ice 10.05	7.88 9.20 10.53	89.96 156.33 244.66
Panel-72x12x9	B	From Leg	0.00 0.00 0.00	0.0000	116.00	No Ice 8.40 1/2" Ice 9.23 1" Ice 10.05	7.88 9.20 10.53	89.96 156.33 244.66
Panel-72x12x9	A	From Leg	0.00 0.00 0.00	0.0000	116.00	No Ice 8.40 1/2" Ice 9.23 1" Ice 10.05	7.88 9.20 10.53	89.96 156.33 244.66

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job		SO15543/SO21571; Tower 147997; Foundation 147998		Page		5 of 89	
	Project		NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT		Date		14:07:08 12/22/14	
	Client		Bay Communications, LLC		Designed by		Tony2 tnxTower 6.1.2.0	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz Lateral	Vert					
			0.00						
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
(3) RRUS-11	C	From Leg	0.00	0.0000	116.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
(3) RRUS-11	B	From Leg	0.00	0.0000	116.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
(3) RRUS-11	A	From Leg	0.00	0.0000	116.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
Low-Profile Platform 14'	C	None		0.0000	116.00	No Ice	21.00	21.00	1106.00
						1/2" Ice	31.00	31.00	1200.00
						1" Ice	41.00	41.00	1294.00
10' Whip	C	From Leg	0.00	0.0000	108.00	No Ice	1.41	1.41	4.00
			0.00			1/2" Ice	2.51	2.51	19.33
			5.00			1" Ice	3.60	3.60	34.66
Clamp Ring Assembly	C	None		0.0000	108.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49
10' Whip	B	From Leg	0.00	0.0000	108.00	No Ice	1.41	1.41	4.00
			0.00			1/2" Ice	2.51	2.51	19.33
			5.00			1" Ice	3.60	3.60	34.66
Clamp Ring Assembly	B	None		0.0000	108.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49
(2) AIR-21	A	From Leg	0.00	0.0000	106.00	No Ice	6.53	5.46	100.08
			0.00			1/2" Ice	7.20	6.59	150.47
			0.00			1" Ice	7.88	7.72	217.93
(2) AIR-21	B	From Leg	0.00	0.0000	106.00	No Ice	6.53	5.46	100.08
			0.00			1/2" Ice	7.20	6.59	150.47
			0.00			1" Ice	7.88	7.72	217.93
(2) AIR-21	C	From Leg	0.00	0.0000	106.00	No Ice	6.53	5.46	100.08
			0.00			1/2" Ice	7.20	6.59	150.47
			0.00			1" Ice	7.88	7.72	217.93
TMA - 10"x6"x3"	A	From Leg	0.00	0.0000	106.00	No Ice	0.50	0.26	10.00
			0.00			1/2" Ice	0.64	0.37	10.03
			0.00			1" Ice	0.78	0.48	10.06
TMA - 10"x6"x3"	B	From Leg	0.00	0.0000	106.00	No Ice	0.50	0.26	10.00
			0.00			1/2" Ice	0.64	0.37	10.03
			0.00			1" Ice	0.78	0.48	10.06
TMA - 10"x6"x3"	C	From Leg	0.00	0.0000	106.00	No Ice	0.50	0.26	10.00
			0.00			1/2" Ice	0.64	0.37	10.03
			0.00			1" Ice	0.78	0.48	10.06
Clamp Ring Assembly	B	None		0.0000	106.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49
(2) RRUS-11	C	From Leg	0.00	0.0000	98.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
(2) RRUS-11	B	From Leg	0.00	0.0000	98.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
(2) RRUS-11	A	From Leg	0.00	0.0000	98.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
RR-RM1560 - 6 Sector Ring	C	None		0.0000	98.00	No Ice	3.50	3.50	123.00

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	Project		NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT		Date		14:07:08 12/22/14	
	Client		Bay Communications, LLC		Designed by		Tony2 tnxTower 6.1.2.0	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz Lateral	Vert					
Mount						1/2" Ice	4.50	4.50	185.00
						1" Ice	5.50	5.50	247.00
Panel-72x12x9	C	From Leg	0.00	0.0000	96.00	No Ice	8.40	7.88	89.96
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
Panel-72x12x9	B	From Leg	0.00	0.0000	96.00	No Ice	8.40	7.88	89.96
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
Panel-72x12x9	A	From Leg	0.00	0.0000	96.00	No Ice	8.40	7.88	89.96
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
RRUS-11	C	From Leg	0.00	0.0000	96.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
RRUS-11	B	From Leg	0.00	0.0000	96.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
RRUS-11	A	From Leg	0.00	0.0000	96.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
Clamp Ring Assembly	C	None		0.0000	96.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49
(2) RRUS-11	C	From Leg	0.00	0.0000	88.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
(2) RRUS-11	B	From Leg	0.00	0.0000	88.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
(2) RRUS-11	A	From Leg	0.00	0.0000	88.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
RR-RM1560 - 6 Sector Ring Mount	C	None		0.0000	88.00	No Ice	3.50	3.50	123.00
						1/2" Ice	4.50	4.50	185.00
						1" Ice	5.50	5.50	247.00
Panel-72x12x9	C	From Leg	0.00	0.0000	86.00	No Ice	8.40	7.88	89.96
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
Panel-72x12x9	B	From Leg	0.00	0.0000	86.00	No Ice	8.40	7.88	89.96
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
Panel-72x12x9	A	From Leg	0.00	0.0000	86.00	No Ice	8.40	7.88	89.96
			0.00			1/2" Ice	9.23	9.20	156.33
			0.00			1" Ice	10.05	10.53	244.66
RRUS-11	C	From Leg	0.00	0.0000	86.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
RRUS-11	B	From Leg	0.00	0.0000	86.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
RRUS-11	A	From Leg	0.00	0.0000	86.00	No Ice	3.79	1.02	55.00
			0.00			1/2" Ice	4.16	1.23	80.77
			0.00			1" Ice	4.53	1.44	106.55
Clamp Ring Assembly	C	None		0.0000	86.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49
Dish Pipe Mount	B	From Leg	0.00	0.0000	76.00	No Ice	0.00	1.80	103.00

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz Lateral	Vert						
			ft	ft	°	ft	ft ²	ft ²	lb	
Clamp Ring Assembly	B	None	0.00		0.0000	76.00	1/2" Ice	0.00	2.10	119.00
			0.00				1" Ice	0.00	2.40	135.00
							No Ice	0.01	0.01	231.00
							1/2" Ice	0.01	0.01	340.25
							1" Ice	0.01	0.01	449.49

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							
				ft	ft	°	°	ft	ft	ft ²	lb	
6' Solid w/Radome	B	Paraboloid w/Radome	From Leg	0.00		60.0000		76.00	6.00	No Ice	28.27	162.00
				0.00						1/2" Ice	29.07	321.00
				0.00						1" Ice	29.86	480.00

Tower Pressures - No Ice

$$G_H = 1.100$$

Section Elevation	z	K _Z	q _Z	A _G	F _a	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face	C _{AA} Out Face
ft	ft		psf	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
L1 129.00-109.00	118.70	1.312	49	46.415	A	0.000	46.415	46.415	100.00	0.000	0.000
					B	0.000	46.415	100.00	0.000	0.000	
					C	0.000	46.415	100.00	0.000	0.000	
L2 109.00-60.86	83.97	1.22	45	145.708	A	0.000	145.708	145.708	100.00	0.000	0.000
					B	0.000	145.708	100.00	0.000	0.000	
					C	0.000	145.708	100.00	0.000	0.000	
L3 60.86-46.59	53.63	1.11	41	51.825	A	0.000	51.825	51.825	100.00	0.000	0.000
					B	0.000	51.825	100.00	0.000	0.000	
					C	0.000	51.825	100.00	0.000	0.000	
L4 46.59-0.00	23.43	0.932	34	196.143	A	0.000	196.143	196.143	100.00	0.000	0.000
					B	0.000	196.143	100.00	0.000	0.000	
					C	0.000	196.143	100.00	0.000	0.000	

Tower Pressure - With Ice

$$G_H = 1.100$$

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section Elevation <i>ft</i>	<i>z</i> <i>ft</i>	<i>K_Z</i>	<i>q_z</i> <i>psf</i>	<i>t_z</i> <i>in</i>	<i>A_G</i> <i>ft²</i>	<i>F_{a c e}</i>	<i>A_F</i> <i>ft²</i>	<i>A_R</i> <i>ft²</i>	<i>A_{leg}</i> <i>ft²</i>	<i>Leg %</i>	<i>C_AA_A</i> <i>In Face</i> <i>ft²</i>	<i>C_AA_A</i> <i>Out Face</i> <i>ft²</i>
L1 129.00-109.00	118.70	1.312	8	2.1311	53.519	A	0.000	53.519	53.519	100.00	0.000	0.000
						B	0.000	53.519		100.00	0.000	0.000
						C	0.000	53.519		100.00	0.000	0.000
L2 109.00-60.86	83.97	1.22	7	2.0586	162.223	A	0.000	162.223	162.223	100.00	0.000	0.000
						B	0.000	162.223		100.00	0.000	0.000
						C	0.000	162.223		100.00	0.000	0.000
L3 60.86-46.59	53.63	1.11	7	1.9683	56.721	A	0.000	56.721	56.721	100.00	0.000	0.000
						B	0.000	56.721		100.00	0.000	0.000
						C	0.000	56.721		100.00	0.000	0.000
L4 46.59-0.00	23.43	0.932	6	1.8118	211.429	A	0.000	211.429	211.429	100.00	0.000	0.000
						B	0.000	211.429		100.00	0.000	0.000
						C	0.000	211.429		100.00	0.000	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation <i>ft</i>	<i>z</i> <i>ft</i>	<i>K_Z</i>	<i>q_z</i> <i>psf</i>	<i>A_G</i> <i>ft²</i>	<i>F_{a c e}</i>	<i>A_F</i> <i>ft²</i>	<i>A_R</i> <i>ft²</i>	<i>A_{leg}</i> <i>ft²</i>	<i>Leg %</i>	<i>C_AA_A</i> <i>In Face</i> <i>ft²</i>	<i>C_AA_A</i> <i>Out Face</i> <i>ft²</i>
L1 129.00-109.00	118.70	1.312	10	46.415	A	0.000	46.415	46.415	100.00	0.000	0.000
					B	0.000	46.415		100.00	0.000	0.000
					C	0.000	46.415		100.00	0.000	0.000
L2 109.00-60.86	83.97	1.22	10	145.708	A	0.000	145.708	145.708	100.00	0.000	0.000
					B	0.000	145.708		100.00	0.000	0.000
					C	0.000	145.708		100.00	0.000	0.000
L3 60.86-46.59	53.63	1.11	9	51.825	A	0.000	51.825	51.825	100.00	0.000	0.000
					B	0.000	51.825		100.00	0.000	0.000
					C	0.000	51.825		100.00	0.000	0.000
L4 46.59-0.00	23.43	0.932	7	196.143	A	0.000	196.143	196.143	100.00	0.000	0.000
					B	0.000	196.143		100.00	0.000	0.000
					C	0.000	196.143		100.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation <i>ft</i>	<i>Add Weight</i> <i>lb</i>	<i>Self Weight</i> <i>lb</i>	<i>F_{a c e}</i>	<i>e</i>	<i>C_F</i>	<i>q_z</i> <i>psf</i>	<i>D_F</i>	<i>D_R</i>	<i>A_E</i> <i>ft²</i>	<i>F</i> <i>lb</i>	<i>w</i> <i>plf</i>	<i>Ctrl. Face</i>
L1 129.00-109.00	236.16	1213.53	A	1	0.65	49	1	1	46.415	1610.65	80.53	C
			B	1	0.65		1	1	46.415			
			C	1	0.65		1	1	46.415			
L2 109.00-60.86	2036.39	5078.62	A	1	0.65	45	1	1	145.708	4688.65	97.40	C
			B	1	0.65		1	1	145.708			
			C	1	0.65		1	1	145.708			
L3 60.86-46.59	725.51	3111.43	A	1	0.65	41	1	1	51.825	1521.39	106.61	C
			B	1	0.65		1	1	51.825			
			C	1	0.65		1	1	51.825			
L4 46.59-0.00	2368.83	9531.64	A	1	0.65	34	1	1	196.143	4807.35	103.18	C
			B	1	0.65		1	1	196.143			
			C	1	0.65		1	1	196.143			

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
Sum Weight:	5366.90	18935.22						OTM	779098.01 lb-ft	12628.04		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	1213.53	A	1	0.65	49	1	1	46.415	1610.65	80.53	C
			B	1	0.65		1	1	46.415			
			C	1	0.65		1	1	46.415			
L2 109.00-60.86	2036.39	5078.62	A	1	0.65	45	1	1	145.708	4688.65	97.40	C
			B	1	0.65		1	1	145.708			
			C	1	0.65		1	1	145.708			
L3 60.86-46.59	725.51	3111.43	A	1	0.65	41	1	1	51.825	1521.39	106.61	C
			B	1	0.65		1	1	51.825			
			C	1	0.65		1	1	51.825			
L4 46.59-0.00	2368.83	9531.64	A	1	0.65	34	1	1	196.143	4807.35	103.18	C
			B	1	0.65		1	1	196.143			
			C	1	0.65		1	1	196.143			
Sum Weight:	5366.90	18935.22						OTM	779098.01 lb-ft	12628.04		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	1213.53	A	1	0.65	49	1	1	46.415	1610.65	80.53	C
			B	1	0.65		1	1	46.415			
			C	1	0.65		1	1	46.415			
L2 109.00-60.86	2036.39	5078.62	A	1	0.65	45	1	1	145.708	4688.65	97.40	C
			B	1	0.65		1	1	145.708			
			C	1	0.65		1	1	145.708			
L3 60.86-46.59	725.51	3111.43	A	1	0.65	41	1	1	51.825	1521.39	106.61	C
			B	1	0.65		1	1	51.825			
			C	1	0.65		1	1	51.825			
L4 46.59-0.00	2368.83	9531.64	A	1	0.65	34	1	1	196.143	4807.35	103.18	C
			B	1	0.65		1	1	196.143			
			C	1	0.65		1	1	196.143			
Sum Weight:	5366.90	18935.22						OTM	779098.01 lb-ft	12628.04		

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Tower Forces - With Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	2768.48	A	1	1.2	8	1	1	53.519	563.59	28.18	C
			B	1	1.2		1	1	53.519			
			C	1	1.2		1	1	53.519			
L2 109.00-60.86	2036.39	9705.74	A	1	1.2	7	1	1	162.223	1584.13	32.91	C
			B	1	1.2		1	1	162.223			
			C	1	1.2		1	1	162.223			
L3 60.86-46.59	725.51	4667.65	A	1	1.2	7	1	1	56.721	505.31	35.41	C
			B	1	1.2		1	1	56.721			
			C	1	1.2		1	1	56.721			
L4 46.59-0.00	2368.83	14904.34	A	1	1.2	6	1	1	211.429	1572.57	33.75	C
			B	1	1.2		1	1	211.429			
			C	1	1.2		1	1	211.429			
Sum Weight:	5366.90	32046.21						OTM	263855.90 lb-ft	4225.60		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	2768.48	A	1	1.2	8	1	1	53.519	563.59	28.18	C
			B	1	1.2		1	1	53.519			
			C	1	1.2		1	1	53.519			
L2 109.00-60.86	2036.39	9705.74	A	1	1.2	7	1	1	162.223	1584.13	32.91	C
			B	1	1.2		1	1	162.223			
			C	1	1.2		1	1	162.223			
L3 60.86-46.59	725.51	4667.65	A	1	1.2	7	1	1	56.721	505.31	35.41	C
			B	1	1.2		1	1	56.721			
			C	1	1.2		1	1	56.721			
L4 46.59-0.00	2368.83	14904.34	A	1	1.2	6	1	1	211.429	1572.57	33.75	C
			B	1	1.2		1	1	211.429			
			C	1	1.2		1	1	211.429			
Sum Weight:	5366.90	32046.21						OTM	263855.90 lb-ft	4225.60		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	2768.48	A	1	1.2	8	1	1	53.519	563.59	28.18	C
			B	1	1.2		1	1	53.519			
			C	1	1.2		1	1	53.519			
L2 109.00-	2036.39	9705.74	A	1	1.2	7	1	1	162.223	1584.13	32.91	C

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 11 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
60.86			B	1	1.2		1	1	162.223			
			C	1	1.2		1	1	162.223			
L3 60.86-46.59	725.51	4667.65	A	1	1.2	7	1	1	56.721	505.31	35.41	C
			B	1	1.2		1	1	56.721			
			C	1	1.2		1	1	56.721			
L4 46.59-0.00	2368.83	14904.34	A	1	1.2	6	1	1	211.429	1572.57	33.75	C
			B	1	1.2		1	1	211.429			
			C	1	1.2		1	1	211.429			
Sum Weight:	5366.90	32046.21						OTM	263855.90 lb-ft	4225.60		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	1213.53	A	1	0.65	10	1	1	46.415	341.12	17.06	C
			B	1	0.65		1	1	46.415			
			C	1	0.65		1	1	46.415			
L2 109.00-60.86	2036.39	5078.62	A	1	0.65	10	1	1	145.708	993.01	20.63	C
			B	1	0.65		1	1	145.708			
			C	1	0.65		1	1	145.708			
L3 60.86-46.59	725.51	3111.43	A	1	0.65	9	1	1	51.825	322.22	22.58	C
			B	1	0.65		1	1	51.825			
			C	1	0.65		1	1	51.825			
L4 46.59-0.00	2368.83	9531.64	A	1	0.65	7	1	1	196.143	1018.15	21.85	C
			B	1	0.65		1	1	196.143			
			C	1	0.65		1	1	196.143			
Sum Weight:	5366.90	18935.22						OTM	165004.73 lb-ft	2674.49		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	1213.53	A	1	0.65	10	1	1	46.415	341.12	17.06	C
			B	1	0.65		1	1	46.415			
			C	1	0.65		1	1	46.415			
L2 109.00-60.86	2036.39	5078.62	A	1	0.65	10	1	1	145.708	993.01	20.63	C
			B	1	0.65		1	1	145.708			
			C	1	0.65		1	1	145.708			
L3 60.86-46.59	725.51	3111.43	A	1	0.65	9	1	1	51.825	322.22	22.58	C
			B	1	0.65		1	1	51.825			
			C	1	0.65		1	1	51.825			
L4 46.59-0.00	2368.83	9531.64	A	1	0.65	7	1	1	196.143	1018.15	21.85	C
			B	1	0.65		1	1	196.143			
			C	1	0.65		1	1	196.143			

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 12 of 89
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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
Sum Weight:	5366.90	18935.22	C	1	0.65		1	1 OTM	196.143 165004.73 lb-ft	2674.49		

Tower Forces - Service - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 129.00-109.00	236.16	1213.53	A B C	1	0.65	10	1	1 1 1	46.415 46.415 46.415	341.12	17.06	C
L2 109.00-60.86	2036.39	5078.62	A B C	1	0.65	10	1	1 1 1	145.708 145.708 145.708	993.01	20.63	C
L3 60.86-46.59	725.51	3111.43	A B C	1	0.65	9	1	1 1 1	51.825 51.825 51.825	322.22	22.58	C
L4 46.59-0.00	2368.83	9531.64	A B C	1	0.65	7	1	1 1 1	196.143 196.143 196.143	1018.15	21.85	C
Sum Weight:	5366.90	18935.22						OTM	165004.73 lb-ft	2674.49		

Mast Vectors - No Ice

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	129.00-109.00	0	Wind Normal	1610.65	0.00	-1610.65	-191187.60	0.00	0.00
		30	Wind 90	1610.65	805.32	-1394.86	-165573.32	-95593.80	0.00
		60	Wind 60	1610.65	1394.86	-805.32	-95593.80	-165573.32	0.00
		90	Wind 90	1610.65	1610.65	0.00	0.00	-191187.60	0.00
		120	Wind Normal	1610.65	1394.86	805.32	95593.80	-165573.32	0.00
		150	Wind 90	1610.65	805.32	1394.86	165573.32	-95593.80	0.00
		180	Wind 60	1610.65	0.00	1610.65	191187.60	0.00	0.00
		210	Wind 90	1610.65	-805.32	1394.86	165573.32	95593.80	0.00
		240	Wind Normal	1610.65	-1394.86	805.32	95593.80	165573.32	0.00
		270	Wind 90	1610.65	-1610.65	0.00	0.00	191187.60	0.00
		300	Wind 60	1610.65	-1394.86	-805.32	-95593.80	165573.32	0.00
		330	Wind 90	1610.65	-805.32	-1394.86	-165573.32	95593.80	0.00
L2	109.00-60.86	0	Wind Normal	4688.65	0.00	-4688.65	-393702.21	0.00	0.00
		30	Wind 90	4688.65	2344.32	-4060.49	-340956.12	-196851.11	0.00
		60	Wind 60	4688.65	4060.49	-2344.32	-196851.11	-340956.12	0.00
		90	Wind 90	4688.65	4688.65	0.00	0.00	-393702.21	0.00
		120	Wind Normal	4688.65	4060.49	2344.32	196851.11	-340956.12	0.00
		150	Wind 90	4688.65	2344.32	4060.49	340956.12	-196851.11	0.00
180	Wind 60	4688.65	0.00	4688.65	393702.21	0.00	0.00		

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 13 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L3	60.86-46.59	210	Wind 90	4688.65	-2344.32	4060.49	340956.12	196851.11	0.00
		240	Wind Normal	4688.65	-4060.49	2344.32	196851.11	340956.12	0.00
		270	Wind 90	4688.65	-4688.65	0.00	0.00	393702.21	0.00
		300	Wind 60	4688.65	-4060.49	-2344.32	-196851.11	340956.12	0.00
		330	Wind 90	4688.65	-2344.32	-4060.49	-340956.12	196851.11	0.00
		0	Wind Normal	1521.39	0.00	-1521.39	-81595.79	0.00	0.00
		30	Wind 90	1521.39	760.70	-1317.57	-70664.03	-40797.90	0.00
		60	Wind 60	1521.39	1317.57	-760.70	-40797.90	-70664.03	0.00
		90	Wind 90	1521.39	1521.39	0.00	0.00	-81595.79	0.00
		120	Wind Normal	1521.39	1317.57	760.70	40797.90	-70664.03	0.00
		150	Wind 90	1521.39	760.70	1317.57	70664.03	-40797.90	0.00
		180	Wind 60	1521.39	0.00	1521.39	81595.79	0.00	0.00
		210	Wind 90	1521.39	-760.70	1317.57	70664.03	40797.90	0.00
		240	Wind Normal	1521.39	-1317.57	760.70	40797.90	70664.03	0.00
L4	46.59-0.00	270	Wind 90	1521.39	-1521.39	0.00	0.00	81595.79	0.00
		300	Wind 60	1521.39	-1317.57	-760.70	-40797.90	70664.03	0.00
		330	Wind 90	1521.39	-760.70	-1317.57	-70664.03	40797.90	0.00
		0	Wind Normal	4807.35	0.00	-4807.35	-112612.41	0.00	0.00
		30	Wind 90	4807.35	2403.68	-4163.29	-97525.21	-56306.20	0.00
		60	Wind 60	4807.35	4163.29	-2403.68	-56306.20	-97525.21	0.00
		90	Wind 90	4807.35	4807.35	0.00	0.00	-112612.41	0.00
		120	Wind Normal	4807.35	4163.29	2403.68	56306.20	-97525.21	0.00
		150	Wind 90	4807.35	2403.68	4163.29	97525.21	-56306.20	0.00
		180	Wind 60	4807.35	0.00	4807.35	112612.41	0.00	0.00
		210	Wind 90	4807.35	-2403.68	4163.29	97525.21	56306.20	0.00
		240	Wind Normal	4807.35	-4163.29	2403.68	56306.20	97525.21	0.00
		270	Wind 90	4807.35	-4807.35	0.00	0.00	112612.41	0.00
		300	Wind 60	4807.35	-4163.29	-2403.68	-56306.20	97525.21	0.00
330	Wind 90	4807.35	-2403.68	-4163.29	-97525.21	56306.20	0.00		

Mast Totals - No Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-12628.04	-779098.01	0.00	0.00
30	6314.02	-10936.20	-674718.67	-389549.01	0.00
60	10936.20	-6314.02	-389549.01	-674718.67	0.00
90	12628.04	0.00	0.00	-779098.01	0.00
120	10936.20	6314.02	389549.01	-674718.67	0.00
150	6314.02	10936.20	674718.67	-389549.01	0.00
180	0.00	12628.04	779098.01	0.00	0.00
210	-6314.02	10936.20	674718.67	389549.01	0.00
240	-10936.20	6314.02	389549.01	674718.67	0.00
270	-12628.04	0.00	0.00	779098.01	0.00
300	-10936.20	-6314.02	-389549.01	674718.67	0.00
330	-6314.02	-10936.20	-674718.67	389549.01	0.00

Mast Vectors - With Ice

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Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	129.00-109.00	0	Wind Normal	563.59	0.00	-563.59	-66899.03	0.00	0.00
		30	Wind 90	563.59	281.79	-488.08	-57936.26	-33449.52	0.00
		60	Wind 60	563.59	488.08	-281.79	-33449.52	-57936.26	0.00
		90	Wind 90	563.59	563.59	0.00	0.00	-66899.03	0.00
		120	Wind Normal	563.59	488.08	281.79	33449.52	-57936.26	0.00
		150	Wind 90	563.59	281.79	488.08	57936.26	-33449.52	0.00
		180	Wind 60	563.59	0.00	563.59	66899.03	0.00	0.00
		210	Wind 90	563.59	-281.79	488.08	57936.26	33449.52	0.00
		240	Wind Normal	563.59	-488.08	281.79	33449.52	57936.26	0.00
		270	Wind 90	563.59	-563.59	0.00	0.00	66899.03	0.00
		300	Wind 60	563.59	-488.08	-281.79	-33449.52	57936.26	0.00
		330	Wind 90	563.59	-281.79	-488.08	-57936.26	33449.52	0.00
L2	109.00-60.86	0	Wind Normal	1584.13	0.00	-1584.13	-133018.20	0.00	0.00
		30	Wind 90	1584.13	792.06	-1371.90	-115197.14	-66509.10	0.00
		60	Wind 60	1584.13	1371.90	-792.06	-66509.10	-115197.14	0.00
		90	Wind 90	1584.13	1584.13	0.00	0.00	-133018.20	0.00
		120	Wind Normal	1584.13	1371.90	792.06	66509.10	-115197.14	0.00
		150	Wind 90	1584.13	792.06	1371.90	115197.14	-66509.10	0.00
		180	Wind 60	1584.13	0.00	1584.13	133018.20	0.00	0.00
		210	Wind 90	1584.13	-792.06	1371.90	115197.14	66509.10	0.00
		240	Wind Normal	1584.13	-1371.90	792.06	66509.10	115197.14	0.00
		270	Wind 90	1584.13	-1584.13	0.00	0.00	133018.20	0.00
		300	Wind 60	1584.13	-1371.90	-792.06	-66509.10	115197.14	0.00
		330	Wind 90	1584.13	-792.06	-1371.90	-115197.14	66509.10	0.00
L3	60.86-46.59	0	Wind Normal	505.31	0.00	-505.31	-27101.13	0.00	0.00
		30	Wind 90	505.31	252.66	-437.61	-23470.27	-13550.57	0.00
		60	Wind 60	505.31	437.61	-252.66	-13550.57	-23470.27	0.00
		90	Wind 90	505.31	505.31	0.00	0.00	-27101.13	0.00
		120	Wind Normal	505.31	437.61	252.66	13550.57	-23470.27	0.00
		150	Wind 90	505.31	252.66	437.61	23470.27	-13550.57	0.00
		180	Wind 60	505.31	0.00	505.31	27101.13	0.00	0.00
		210	Wind 90	505.31	-252.66	437.61	23470.27	13550.57	0.00
		240	Wind Normal	505.31	-437.61	252.66	13550.57	23470.27	0.00
		270	Wind 90	505.31	-505.31	0.00	0.00	27101.13	0.00
		300	Wind 60	505.31	-437.61	-252.66	-13550.57	23470.27	0.00
		330	Wind 90	505.31	-252.66	-437.61	-23470.27	13550.57	0.00
L4	46.59-0.00	0	Wind Normal	1572.57	0.00	-1572.57	-36837.54	0.00	0.00
		30	Wind 90	1572.57	786.29	-1361.89	-31902.24	-18418.77	0.00
		60	Wind 60	1572.57	1361.89	-786.29	-18418.77	-31902.24	0.00
		90	Wind 90	1572.57	1572.57	0.00	0.00	-36837.54	0.00
		120	Wind Normal	1572.57	1361.89	786.29	18418.77	-31902.24	0.00
		150	Wind 90	1572.57	786.29	1361.89	31902.24	-18418.77	0.00
		180	Wind 60	1572.57	0.00	1572.57	36837.54	0.00	0.00
		210	Wind 90	1572.57	-786.29	1361.89	31902.24	18418.77	0.00
		240	Wind Normal	1572.57	-1361.89	786.29	18418.77	31902.24	0.00
		270	Wind 90	1572.57	-1572.57	0.00	0.00	36837.54	0.00
		300	Wind 60	1572.57	-1361.89	-786.29	-18418.77	31902.24	0.00
		330	Wind 90	1572.57	-786.29	-1361.89	-31902.24	18418.77	0.00

Mast Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-4225.60	-263855.90	0.00	0.00
30	2112.80	-3659.48	-228505.92	-131927.95	0.00
60	3659.48	-2112.80	-131927.95	-228505.92	0.00

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	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
90	4225.60	0.00	0.00	-263855.90	0.00
120	3659.48	2112.80	131927.95	-228505.92	0.00
150	2112.80	3659.48	228505.92	-131927.95	0.00
180	0.00	4225.60	263855.90	0.00	0.00
210	-2112.80	3659.48	228505.92	131927.95	0.00
240	-3659.48	2112.80	131927.95	228505.92	0.00
270	-4225.60	0.00	0.00	263855.90	0.00
300	-3659.48	-2112.80	-131927.95	228505.92	0.00
330	-2112.80	-3659.48	-228505.92	131927.95	0.00

Mast Vectors - Service

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	129.00-109.00	0	Wind Normal	341.12	0.00	-341.12	-40491.51	0.00	0.00
		30	Wind 90	341.12	170.56	-295.42	-35066.68	-20245.76	0.00
		60	Wind 60	341.12	295.42	-170.56	-20245.76	-35066.68	0.00
		90	Wind 90	341.12	341.12	0.00	0.00	-40491.51	0.00
		120	Wind Normal	341.12	295.42	170.56	20245.76	-35066.68	0.00
		150	Wind 90	341.12	170.56	295.42	35066.68	-20245.76	0.00
		180	Wind 60	341.12	0.00	341.12	40491.51	0.00	0.00
		210	Wind 90	341.12	-170.56	295.42	35066.68	20245.76	0.00
		240	Wind Normal	341.12	-295.42	170.56	20245.76	35066.68	0.00
		270	Wind 90	341.12	-341.12	0.00	0.00	40491.51	0.00
		300	Wind 60	341.12	-295.42	-170.56	-20245.76	35066.68	0.00
		330	Wind 90	341.12	-170.56	-295.42	-35066.68	20245.76	0.00
L2	109.00-60.86	0	Wind Normal	993.01	0.00	-993.01	-83381.97	0.00	0.00
		30	Wind 90	993.01	496.50	-859.97	-72210.90	-41690.99	0.00
		60	Wind 60	993.01	859.97	-496.50	-41690.99	-72210.90	0.00
		90	Wind 90	993.01	993.01	0.00	0.00	-83381.97	0.00
		120	Wind Normal	993.01	859.97	496.50	41690.99	-72210.90	0.00
		150	Wind 90	993.01	496.50	859.97	72210.90	-41690.99	0.00
		180	Wind 60	993.01	0.00	993.01	83381.97	0.00	0.00
		210	Wind 90	993.01	-496.50	859.97	72210.90	41690.99	0.00
		240	Wind Normal	993.01	-859.97	496.50	41690.99	72210.90	0.00
		270	Wind 90	993.01	-993.01	0.00	0.00	83381.97	0.00
		300	Wind 60	993.01	-859.97	-496.50	-41690.99	72210.90	0.00
		330	Wind 90	993.01	-496.50	-859.97	-72210.90	41690.99	0.00
L3	60.86-46.59	0	Wind Normal	322.22	0.00	-322.22	-17281.13	0.00	0.00
		30	Wind 90	322.22	161.11	-279.05	-14965.90	-8640.56	0.00
		60	Wind 60	322.22	279.05	-161.11	-8640.56	-14965.90	0.00
		90	Wind 90	322.22	322.22	0.00	0.00	-17281.13	0.00
		120	Wind Normal	322.22	279.05	161.11	8640.56	-14965.90	0.00
		150	Wind 90	322.22	161.11	279.05	14965.90	-8640.56	0.00
		180	Wind 60	322.22	0.00	322.22	17281.13	0.00	0.00
		210	Wind 90	322.22	-161.11	279.05	14965.90	8640.56	0.00
		240	Wind Normal	322.22	-279.05	161.11	8640.56	14965.90	0.00
		270	Wind 90	322.22	-322.22	0.00	0.00	17281.13	0.00
		300	Wind 60	322.22	-279.05	-161.11	-8640.56	14965.90	0.00
		330	Wind 90	322.22	-161.11	-279.05	-14965.90	8640.56	0.00
L4	46.59-0.00	0	Wind Normal	1018.15	0.00	-1018.15	-23850.12	0.00	0.00
		30	Wind 90	1018.15	509.07	-881.74	-20654.81	-11925.06	0.00
		60	Wind 60	1018.15	881.74	-509.07	-11925.06	-20654.81	0.00
		90	Wind 90	1018.15	1018.15	0.00	0.00	-23850.12	0.00
		120	Wind Normal	1018.15	881.74	509.07	11925.06	-20654.81	0.00
		150	Wind 90	1018.15	509.07	881.74	20654.81	-11925.06	0.00

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	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
		180	Wind 60	1018.15	0.00	1018.15	23850.12	0.00	0.00
		210	Wind 90	1018.15	-509.07	881.74	20654.81	11925.06	0.00
		240	Wind Normal	1018.15	-881.74	509.07	11925.06	20654.81	0.00
		270	Wind 90	1018.15	-1018.15	0.00	0.00	23850.12	0.00
		300	Wind 60	1018.15	-881.74	-509.07	-11925.06	20654.81	0.00
		330	Wind 90	1018.15	-509.07	-881.74	-20654.81	11925.06	0.00

Mast Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-2674.49	-165004.73	0.00	0.00
30	1337.24	-2316.17	-142898.29	-82502.37	0.00
60	2316.17	-1337.24	-82502.37	-142898.29	0.00
90	2674.49	0.00	0.00	-165004.73	0.00
120	2316.17	1337.24	82502.37	-142898.29	0.00
150	1337.24	2316.17	142898.29	-82502.37	0.00
180	0.00	2674.49	165004.73	0.00	0.00
210	-1337.24	2316.17	142898.29	82502.37	0.00
240	-2316.17	1337.24	82502.37	142898.29	0.00
270	-2674.49	0.00	0.00	165004.73	0.00
300	-2316.17	-1337.24	-82502.37	142898.29	0.00
330	-1337.24	-2316.17	-142898.29	82502.37	0.00

Discrete Appurtenance Pressures - No Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
10' Lightning Rod	240.0000	76.00	-0.90	0.52	134.00	1.346	50	2.96	2.96
101-83B-09-0-03	240.0000	45.00	-0.90	0.52	129.00	1.335	49	2.91	2.91
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	129.00	1.335	49	0.01	0.01
Panel-72x12x9	240.0000	89.96	-0.93	0.54	126.00	1.329	49	8.40	7.88
Panel-72x12x9	120.0000	89.96	0.93	0.54	126.00	1.329	49	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.07	126.00	1.329	49	8.40	7.88
RRUS-11	240.0000	165.00	-0.93	0.54	126.00	1.329	49	11.38	3.07
RRUS-11	120.0000	165.00	0.93	0.54	126.00	1.329	49	11.38	3.07
RRUS-11	0.0000	165.00	0.00	-1.07	126.00	1.329	49	11.38	3.07
Low-Profile Platform 14'	0.0000	1106.00	0.00	0.00	126.00	1.329	49	21.00	21.00
Panel-72x12x9	240.0000	89.96	-1.02	0.59	116.00	1.306	48	8.40	7.88
Panel-72x12x9	120.0000	89.96	1.02	0.59	116.00	1.306	48	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.17	116.00	1.306	48	8.40	7.88
RRUS-11	240.0000	165.00	-1.02	0.59	116.00	1.306	48	11.38	3.07
RRUS-11	120.0000	165.00	1.02	0.59	116.00	1.306	48	11.38	3.07
RRUS-11	0.0000	165.00	0.00	-1.17	116.00	1.306	48	11.38	3.07
Low-Profile Platform 14'	0.0000	1106.00	0.00	0.00	116.00	1.306	48	21.00	21.00
10' Whip	240.0000	4.00	-1.09	0.63	113.00	1.299	48	1.41	1.41
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	108.00	1.286	48	0.01	0.01
10' Whip	120.0000	4.00	1.09	0.63	113.00	1.299	48	1.41	1.41
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	108.00	1.286	48	0.01	0.01
AIR-21	0.0000	200.16	0.00	-1.28	106.00	1.281	47	13.07	10.93

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 17 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
AIR-21	120.0000	200.16	1.10	0.64	106.00	1.281	47	13.07	10.93
AIR-21	240.0000	200.16	-1.10	0.64	106.00	1.281	47	13.07	10.93
TMA - 10"x6"x3"	0.0000	10.00	0.00	-1.28	106.00	1.281	47	0.50	0.26
TMA - 10"x6"x3"	120.0000	10.00	1.10	0.64	106.00	1.281	47	0.50	0.26
TMA - 10"x6"x3"	240.0000	10.00	-1.10	0.64	106.00	1.281	47	0.50	0.26
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	106.00	1.281	47	0.01	0.01
RRUS-11	240.0000	110.00	-1.18	0.68	98.00	1.260	47	7.58	2.05
RRUS-11	120.0000	110.00	1.18	0.68	98.00	1.260	47	7.58	2.05
RRUS-11	0.0000	110.00	0.00	-1.36	98.00	1.260	47	7.58	2.05
RR-RM1560 - 6 Sector Ring Mount	0.0000	123.00	0.00	0.00	98.00	1.260	47	3.50	3.50
Panel-72x12x9	240.0000	89.96	-1.19	0.69	96.00	1.255	46	8.40	7.88
Panel-72x12x9	120.0000	89.96	1.19	0.69	96.00	1.255	46	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.38	96.00	1.255	46	8.40	7.88
RRUS-11	240.0000	55.00	-1.19	0.69	96.00	1.255	46	3.79	1.02
RRUS-11	120.0000	55.00	1.19	0.69	96.00	1.255	46	3.79	1.02
RRUS-11	0.0000	55.00	0.00	-1.38	96.00	1.255	46	3.79	1.02
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	96.00	1.255	46	0.01	0.01
RRUS-11	240.0000	110.00	-1.26	0.73	88.00	1.232	46	7.58	2.05
RRUS-11	120.0000	110.00	1.26	0.73	88.00	1.232	46	7.58	2.05
RRUS-11	0.0000	110.00	0.00	-1.46	88.00	1.232	46	7.58	2.05
RR-RM1560 - 6 Sector Ring Mount	0.0000	123.00	0.00	0.00	88.00	1.232	46	3.50	3.50
Panel-72x12x9	240.0000	89.96	-1.28	0.74	86.00	1.226	45	8.40	7.88
Panel-72x12x9	120.0000	89.96	1.28	0.74	86.00	1.226	45	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.48	86.00	1.226	45	8.40	7.88
RRUS-11	240.0000	55.00	-1.28	0.74	86.00	1.226	45	3.79	1.02
RRUS-11	120.0000	55.00	1.28	0.74	86.00	1.226	45	3.79	1.02
RRUS-11	0.0000	55.00	0.00	-1.48	86.00	1.226	45	3.79	1.02
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	86.00	1.226	45	0.01	0.01
Dish Pipe Mount	120.0000	103.00	1.37	0.79	76.00	1.195	44	0.00	1.80
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	76.00	1.195	44	0.01	0.01
Sum Weight:		7997.00							

Discrete Appurtenance Vectors - No Ice

10' Lightning Rod - Elevation 134 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	81.16	140.57	0.00	-162.32	-21711.41	68.49	-146.29
30	140.57	81.16	81.16	-140.57	-18797.33	-10806.98	-84.46
60	162.32	0.00	140.57	-81.16	-10835.93	-18768.38	0.00
90	140.57	81.16	162.32	0.00	39.55	-21682.46	84.46
120	81.16	140.57	140.57	81.16	10915.02	-18768.38	146.29
150	0.00	162.32	81.16	140.57	18876.42	-10806.98	168.92
180	81.16	140.57	0.00	162.32	21790.50	68.49	146.29
210	140.57	81.16	-81.16	140.57	18876.42	10943.97	84.46
240	162.32	0.00	-140.57	81.16	10915.02	18905.37	0.00
270	140.57	81.16	-162.32	0.00	39.55	21819.45	-84.46
300	81.16	140.57	-140.57	-81.16	-10835.93	18905.37	-146.29
330	0.00	162.32	-81.16	-140.57	-18797.33	10943.97	-168.92

101-83B-09-0-03 - Elevation 129 - From Leg C

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	63.24	109.54	0.00	-126.48	-16293.13	40.56	-113.99
30	109.54	63.24	63.24	-109.54	-14107.13	-8117.72	-65.81
60	126.48	0.00	109.54	-63.24	-8134.86	-14089.98	0.00
90	109.54	63.24	126.48	0.00	23.41	-16275.99	65.81
120	63.24	109.54	109.54	63.24	8181.69	-14089.98	113.99
150	0.00	126.48	63.24	109.54	14153.96	-8117.72	131.63
180	63.24	109.54	0.00	126.48	16339.96	40.56	113.99
210	109.54	63.24	-63.24	109.54	14153.96	8198.83	65.81
240	126.48	0.00	-109.54	63.24	8181.69	14171.10	0.00
270	109.54	63.24	-126.48	0.00	23.41	16357.10	-65.81
300	63.24	109.54	-109.54	-63.24	-8134.86	14171.10	-113.99
330	0.00	126.48	-63.24	-109.54	-14107.13	8198.83	-131.63

Clamp Ring Assembly - Elevation 129 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.43	0.00	0.00	-0.43	-56.07	0.00	0.00
30	0.43	0.00	0.22	-0.38	-48.56	-28.03	0.00
60	0.43	0.00	0.38	-0.22	-28.03	-48.56	0.00
90	0.43	0.00	0.43	0.00	0.00	-56.07	0.00
120	0.43	0.00	0.38	0.22	28.03	-48.56	0.00
150	0.43	0.00	0.22	0.38	48.56	-28.03	0.00
180	0.43	0.00	0.00	0.43	56.07	0.00	0.00
210	0.43	0.00	-0.22	0.38	48.56	28.03	0.00
240	0.43	0.00	-0.38	0.22	28.03	48.56	0.00
270	0.43	0.00	-0.43	0.00	0.00	56.07	0.00
300	0.43	0.00	-0.38	-0.22	-28.03	48.56	0.00
330	0.43	0.00	-0.22	-0.38	-48.56	28.03	0.00

Panel-72x12x9 - Elevation 126 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	181.64	294.95	9.83	-346.26	-43580.59	-1155.35	-315.98
30	314.62	170.29	187.32	-304.79	-38354.84	-23518.99	-182.43
60	363.29	0.00	314.62	-181.64	-22839.04	-39558.37	0.00
90	314.62	170.29	357.61	-9.83	-1190.62	-44975.76	182.43
120	181.64	294.95	304.79	164.62	20789.73	-38319.57	315.98
150	0.00	340.58	170.29	294.95	37212.41	-21373.31	364.86
180	181.64	294.95	-9.83	346.26	43676.96	1322.27	315.98
210	314.62	170.29	-187.32	304.79	38451.22	23685.91	182.43
240	363.29	0.00	-314.62	181.64	22935.41	39725.30	0.00
270	314.62	170.29	-357.61	9.83	1286.99	45142.69	-182.43
300	181.64	294.95	-304.79	-164.62	-20693.36	38486.49	-315.98
330	0.00	340.58	-170.29	-294.95	-37116.04	21540.24	-364.86

Panel-72x12x9 - Elevation 126 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	181.64	294.95	-9.83	-346.26	-43580.59	1155.35	315.98
30	0.00	340.58	170.29	-294.95	-37116.04	-21540.24	364.86
60	181.64	294.95	304.79	-164.62	-20693.36	-38486.49	315.98
90	314.62	170.29	357.61	9.83	1286.99	-45142.69	182.43

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Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 126 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
120	363.29	0.00	314.62	181.64	22935.41	-39725.30	0.00
150	314.62	170.29	187.32	304.79	38451.22	-23685.91	-182.43
180	181.64	294.95	9.83	346.26	43676.96	-1322.27	-315.98
210	0.00	340.58	-170.29	294.95	37212.41	21373.31	-364.86
240	181.64	294.95	-304.79	164.62	20789.73	38319.57	-315.98
270	314.62	170.29	-357.61	-9.83	-1190.62	44975.76	-182.43
300	363.29	0.00	-314.62	-181.64	-22839.04	39558.37	0.00
330	314.62	170.29	-187.32	-304.79	-38354.84	23518.99	182.43

Panel-72x12x9 - Elevation 126 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	363.29	0.00	0.00	-363.29	-45870.82	0.00	0.00
30	314.62	170.29	170.29	-314.62	-39738.21	-21456.77	-182.43
60	181.64	294.95	294.95	-181.64	-22983.60	-37164.22	-315.98
90	0.00	340.58	340.58	0.00	-96.37	-42913.55	-364.86
120	181.64	294.95	294.95	181.64	22790.85	-37164.22	-315.98
150	314.62	170.29	170.29	314.62	39545.46	-21456.77	-182.43
180	363.29	0.00	0.00	363.29	45678.08	0.00	0.00
210	314.62	170.29	-170.29	314.62	39545.46	21456.77	182.43
240	181.64	294.95	-294.95	181.64	22790.85	37164.22	315.98
270	0.00	340.58	-340.58	0.00	-96.37	42913.55	364.86
300	181.64	294.95	-294.95	-181.64	-22983.60	37164.22	315.98
330	314.62	170.29	-170.29	-314.62	-39738.21	21456.77	182.43

RRUS-11 - Elevation 126 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	246.00	115.06	155.51	-222.65	-27965.22	-19441.21	-123.27
30	426.08	66.43	335.78	-270.57	-34003.90	-42155.65	-71.17
60	492.00	0.00	426.08	-246.00	-30907.57	-53533.49	0.00
90	426.08	66.43	402.22	-155.51	-19505.91	-50526.06	71.17
120	246.00	115.06	270.57	-23.35	-2853.98	-33939.20	123.27
150	0.00	132.86	66.43	115.06	14586.36	-8217.33	142.34
180	246.00	115.06	-155.51	222.65	28141.98	19747.38	123.27
210	426.08	66.43	-335.78	270.57	34180.66	42461.81	71.17
240	492.00	0.00	-426.08	246.00	31084.34	53839.65	0.00
270	426.08	66.43	-402.22	155.51	19682.68	50832.22	-71.17
300	246.00	115.06	-270.57	23.35	3030.74	34245.36	-123.27
330	0.00	132.86	-66.43	-115.06	-14409.60	8523.50	-142.34

RRUS-11 - Elevation 126 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	246.00	115.06	-155.51	-222.65	-27965.22	19441.21	123.27
30	0.00	132.86	66.43	-115.06	-14409.60	-8523.50	142.34
60	246.00	115.06	270.57	23.35	3030.74	-34245.36	123.27
90	426.08	66.43	402.22	155.51	19682.68	-50832.22	71.17
120	492.00	0.00	426.08	246.00	31084.34	-53839.65	0.00
150	426.08	66.43	335.78	270.57	34180.66	-42461.81	-71.17
180	246.00	115.06	155.51	222.65	28141.98	-19747.38	-123.27

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 20 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 126 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
210	0.00	132.86	-66.43	115.06	14586.36	8217.33	-142.34
240	246.00	115.06	-270.57	-23.35	-2853.98	33939.20	-123.27
270	426.08	66.43	-402.22	-155.51	-19505.91	50526.06	-71.17
300	492.00	0.00	-426.08	-246.00	-30907.57	53533.49	0.00
330	426.08	66.43	-335.78	-270.57	-34003.90	42155.65	71.17

RRUS-11 - Elevation 126 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	492.00	0.00	0.00	-492.00	-62168.68	0.00	0.00
30	426.08	66.43	66.43	-426.08	-53863.33	-8370.41	-71.17
60	246.00	115.06	115.06	-246.00	-31172.72	-14497.98	-123.27
90	0.00	132.86	132.86	0.00	-176.76	-16740.83	-142.34
120	246.00	115.06	115.06	246.00	30819.19	-14497.98	-123.27
150	426.08	66.43	66.43	426.08	53509.81	-8370.41	-71.17
180	492.00	0.00	0.00	492.00	61815.15	0.00	0.00
210	426.08	66.43	-66.43	426.08	53509.81	8370.41	71.17
240	246.00	115.06	-115.06	246.00	30819.19	14497.98	123.27
270	0.00	132.86	-132.86	0.00	-176.76	16740.83	142.34
300	246.00	115.06	-115.06	-246.00	-31172.72	14497.98	123.27
330	426.08	66.43	-66.43	-426.08	-53863.33	8370.41	71.17

Low-Profile Platform 14' - Elevation 126 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	1135.28	0.00	0.00	-1135.28	-143045.16	0.00	0.00
30	1135.28	0.00	567.64	-983.18	-123880.74	-71522.58	0.00
60	1135.28	0.00	983.18	-567.64	-71522.58	-123880.74	0.00
90	1135.28	0.00	1135.28	0.00	0.00	-143045.16	0.00
120	1135.28	0.00	983.18	567.64	71522.58	-123880.74	0.00
150	1135.28	0.00	567.64	983.18	123880.74	-71522.58	0.00
180	1135.28	0.00	0.00	1135.28	143045.16	0.00	0.00
210	1135.28	0.00	-567.64	983.18	123880.74	71522.58	0.00
240	1135.28	0.00	-983.18	567.64	71522.58	123880.74	0.00
270	1135.28	0.00	-1135.28	0.00	0.00	143045.16	0.00
300	1135.28	0.00	-983.18	-567.64	-71522.58	123880.74	0.00
330	1135.28	0.00	-567.64	-983.18	-123880.74	71522.58	0.00

Panel-72x12x9 - Elevation 116 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	178.51	289.86	9.66	-340.28	-39420.20	-1029.39	-340.12
30	309.19	167.35	184.09	-299.53	-34692.23	-21262.82	-196.37
60	357.02	0.00	309.19	-178.51	-20654.36	-35774.40	0.00
90	309.19	167.35	351.44	-9.66	-1068.03	-40675.76	196.37
120	178.51	289.86	299.53	161.77	18818.62	-34653.59	340.12
150	0.00	334.71	167.35	289.86	33676.98	-19321.53	392.74
180	178.51	289.86	-9.66	340.28	39525.76	1212.22	340.12
210	309.19	167.35	-184.09	299.53	34797.78	21445.65	196.37
240	357.02	0.00	-309.19	178.51	20759.91	35957.23	0.00
270	309.19	167.35	-351.44	9.66	1173.58	40858.59	-196.37

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 116 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
300	178.51	289.86	-299.53	-161.77	-18713.06	34836.42	-340.12
330	0.00	334.71	-167.35	-289.86	-33571.42	19504.36	-392.74

Panel-72x12x9 - Elevation 116 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	178.51	289.86	-9.66	-340.28	-39420.20	1029.39	340.12
30	0.00	334.71	167.35	-289.86	-33571.42	-19504.36	392.74
60	178.51	289.86	299.53	-161.77	-18713.06	-34836.42	340.12
90	309.19	167.35	351.44	9.66	1173.58	-40858.59	196.37
120	357.02	0.00	309.19	178.51	20759.91	-35957.23	0.00
150	309.19	167.35	184.09	299.53	34797.78	-21445.65	-196.37
180	178.51	289.86	9.66	340.28	39525.76	-1212.22	-340.12
210	0.00	334.71	-167.35	-289.86	33676.98	19321.53	-392.74
240	178.51	289.86	-299.53	161.77	18818.62	34653.59	-340.12
270	309.19	167.35	-351.44	-9.66	-1068.03	40675.76	-196.37
300	357.02	0.00	-309.19	-178.51	-20654.36	35774.40	0.00
330	309.19	167.35	-184.09	-299.53	-34692.23	21262.82	196.37

Panel-72x12x9 - Elevation 116 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	357.02	0.00	0.00	-357.02	-41519.83	0.00	0.00
30	309.19	167.35	167.35	-309.19	-35971.37	-19412.94	-196.37
60	178.51	289.86	289.86	-178.51	-20812.69	-33624.20	-340.12
90	0.00	334.71	334.71	0.00	-105.56	-38825.88	-392.74
120	178.51	289.86	289.86	178.51	20601.58	-33624.20	-340.12
150	309.19	167.35	167.35	309.19	35760.26	-19412.94	-196.37
180	357.02	0.00	0.00	357.02	41308.72	0.00	0.00
210	309.19	167.35	-167.35	309.19	35760.26	19412.94	196.37
240	178.51	289.86	-289.86	178.51	20601.58	33624.20	340.12
270	0.00	334.71	-334.71	0.00	-105.56	38825.88	392.74
300	178.51	289.86	-289.86	-178.51	-20812.69	33624.20	340.12
330	309.19	167.35	-167.35	-309.19	-35971.37	19412.94	196.37

RRUS-11 - Elevation 116 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	241.75	113.08	152.83	-218.81	-25284.59	-17560.20	-132.68
30	418.73	65.29	329.99	-265.90	-30748.06	-38111.00	-76.60
60	483.51	0.00	418.73	-241.75	-27946.68	-48405.07	0.00
90	418.73	65.29	395.27	-152.83	-17631.07	-45684.11	76.60
120	241.75	113.08	265.90	-22.95	-2565.28	-30677.20	132.68
150	0.00	130.57	65.29	113.08	13213.80	-7405.43	153.21
180	241.75	113.08	-152.83	218.81	25478.20	17895.54	132.68
210	418.73	65.29	-329.99	265.90	30941.67	38446.34	76.60
240	483.51	0.00	-418.73	241.75	28140.29	48740.40	0.00
270	418.73	65.29	-395.27	152.83	17824.67	46019.44	-76.60
300	241.75	113.08	-265.90	22.95	2758.89	31012.54	-132.68
330	0.00	130.57	-65.29	-113.08	-13020.20	7740.77	-153.21

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 22 of 89</p>
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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 116 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	241.75	113.08	-152.83	-218.81	-25284.59	17560.20	132.68
30	0.00	130.57	65.29	-113.08	-13020.20	-7740.77	153.21
60	241.75	113.08	265.90	22.95	2758.89	-31012.54	132.68
90	418.73	65.29	395.27	152.83	17824.67	-46019.44	76.60
120	483.51	0.00	418.73	241.75	28140.29	-48740.40	0.00
150	418.73	65.29	329.99	265.90	30941.67	-38446.34	-76.60
180	241.75	113.08	152.83	218.81	25478.20	-17895.54	-132.68
210	0.00	130.57	-65.29	113.08	13213.80	7405.43	-153.21
240	241.75	113.08	-265.90	-22.95	-2565.28	30677.20	-132.68
270	418.73	65.29	-395.27	-152.83	-17631.07	45684.11	-76.60
300	483.51	0.00	-418.73	-241.75	-27946.68	48405.07	0.00
330	418.73	65.29	-329.99	-265.90	-30748.06	38111.00	76.60

RRUS-11 - Elevation 116 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	483.51	0.00	0.00	-483.51	-56280.57	0.00	0.00
30	418.73	65.29	65.29	-418.73	-48766.34	-7573.10	-76.60
60	241.75	113.08	113.08	-241.75	-28237.09	-13117.00	-132.68
90	0.00	130.57	130.57	0.00	-193.61	-15146.21	-153.21
120	241.75	113.08	113.08	241.75	27849.88	-13117.00	-132.68
150	418.73	65.29	65.29	418.73	48379.13	-7573.10	-76.60
180	483.51	0.00	0.00	483.51	55893.36	0.00	0.00
210	418.73	65.29	-65.29	418.73	48379.13	7573.10	76.60
240	241.75	113.08	-113.08	241.75	27849.88	13117.00	132.68
270	0.00	130.57	-130.57	0.00	-193.61	15146.21	153.21
300	241.75	113.08	-113.08	-241.75	-28237.09	13117.00	132.68
330	418.73	65.29	-65.29	-418.73	-48766.34	7573.10	76.60

Low-Profile Platform 14' - Elevation 116 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	1115.69	0.00	0.00	-1115.69	-129419.60	0.00	0.00
30	1115.69	0.00	557.84	-966.21	-112080.66	-64709.80	0.00
60	1115.69	0.00	966.21	-557.84	-64709.80	-112080.66	0.00
90	1115.69	0.00	1115.69	0.00	0.00	-129419.60	0.00
120	1115.69	0.00	966.21	557.84	64709.80	-112080.66	0.00
150	1115.69	0.00	557.84	966.21	112080.66	-64709.80	0.00
180	1115.69	0.00	0.00	1115.69	129419.60	0.00	0.00
210	1115.69	0.00	-557.84	966.21	112080.66	64709.80	0.00
240	1115.69	0.00	-966.21	557.84	64709.80	112080.66	0.00
270	1115.69	0.00	-1115.69	0.00	0.00	129419.60	0.00
300	1115.69	0.00	-966.21	-557.84	-64709.80	112080.66	0.00
330	1115.69	0.00	-557.84	-966.21	-112080.66	64709.80	0.00

10' Whip - Elevation 113 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	29.82	51.65	0.00	-59.64	-6736.78	4.35	-64.82
30	51.65	29.82	29.82	-51.65	-5833.88	-3365.30	-37.43

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10' Whip - Elevation 113 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	59.64	0.00	51.65	-29.82	-3367.13	-5832.05	0.00
90	51.65	29.82	59.64	0.00	2.51	-6734.94	37.43
120	29.82	51.65	51.65	29.82	3372.15	-5832.05	64.82
150	0.00	59.64	29.82	51.65	5838.90	-3365.30	74.85
180	29.82	51.65	0.00	59.64	6741.80	4.35	64.82
210	51.65	29.82	-29.82	51.65	5838.90	3373.99	37.43
240	59.64	0.00	-51.65	29.82	3372.15	5840.74	0.00
270	51.65	29.82	-59.64	0.00	2.51	6743.63	-37.43
300	29.82	51.65	-51.65	-29.82	-3367.13	5840.74	-64.82
330	0.00	59.64	-29.82	-51.65	-5833.88	3373.99	-74.85

Clamp Ring Assembly - Elevation 108 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.42	0.00	0.00	-0.42	-45.22	0.00	0.00
30	0.42	0.00	0.21	-0.36	-39.16	-22.61	0.00
60	0.42	0.00	0.36	-0.21	-22.61	-39.16	0.00
90	0.42	0.00	0.42	0.00	0.00	-45.22	0.00
120	0.42	0.00	0.36	0.21	22.61	-39.16	0.00
150	0.42	0.00	0.21	0.36	39.16	-22.61	0.00
180	0.42	0.00	0.00	0.42	45.22	0.00	0.00
210	0.42	0.00	-0.21	0.36	39.16	22.61	0.00
240	0.42	0.00	-0.36	0.21	22.61	39.16	0.00
270	0.42	0.00	-0.42	0.00	0.00	45.22	0.00
300	0.42	0.00	-0.36	-0.21	-22.61	39.16	0.00
330	0.42	0.00	-0.21	-0.36	-39.16	22.61	0.00

10' Whip - Elevation 113 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	29.82	51.65	0.00	-59.64	-6736.78	-4.35	64.82
30	0.00	59.64	29.82	-51.65	-5833.88	-3373.99	74.85
60	29.82	51.65	51.65	-29.82	-3367.13	-5840.74	64.82
90	51.65	29.82	59.64	0.00	2.51	-6743.63	37.43
120	59.64	0.00	51.65	29.82	3372.15	-5840.74	0.00
150	51.65	29.82	29.82	51.65	5838.90	-3373.99	-37.43
180	29.82	51.65	0.00	59.64	6741.80	-4.35	-64.82
210	0.00	59.64	-29.82	51.65	5838.90	3365.30	-74.85
240	29.82	51.65	-51.65	29.82	3372.15	5832.05	-64.82
270	51.65	29.82	-59.64	0.00	2.51	6734.94	-37.43
300	59.64	0.00	-51.65	-29.82	-3367.13	5832.05	0.00
330	51.65	29.82	-29.82	-51.65	-5833.88	3365.30	37.43

Clamp Ring Assembly - Elevation 108 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.42	0.00	0.00	-0.42	-45.22	0.00	0.00
30	0.42	0.00	0.21	-0.36	-39.16	-22.61	0.00
60	0.42	0.00	0.36	-0.21	-22.61	-39.16	0.00
90	0.42	0.00	0.42	0.00	0.00	-45.22	0.00
120	0.42	0.00	0.36	0.21	22.61	-39.16	0.00

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Clamp Ring Assembly - Elevation 108 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
150	0.42	0.00	0.21	0.36	39.16	-22.61	0.00
180	0.42	0.00	0.00	0.42	45.22	0.00	0.00
210	0.42	0.00	-0.21	0.36	39.16	22.61	0.00
240	0.42	0.00	-0.36	0.21	22.61	39.16	0.00
270	0.42	0.00	-0.42	0.00	0.00	45.22	0.00
300	0.42	0.00	-0.36	-0.21	-22.61	39.16	0.00
330	0.42	0.00	-0.21	-0.36	-39.16	22.61	0.00

AIR-21 - Elevation 106 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	544.92	0.00	0.00	-544.92	-58017.12	0.00	0.00
30	471.92	227.86	227.86	-471.92	-50278.50	-24153.38	-290.63
60	272.46	394.67	394.67	-272.46	-29136.21	-41834.88	-503.38
90	0.00	455.72	455.72	0.00	-255.30	-48306.76	-581.26
120	272.46	394.67	394.67	272.46	28625.61	-41834.88	-503.38
150	471.92	227.86	227.86	471.92	49767.91	-24153.38	-290.63
180	544.92	0.00	0.00	544.92	57506.52	0.00	0.00
210	471.92	227.86	-227.86	471.92	49767.91	24153.38	290.63
240	272.46	394.67	-394.67	272.46	28625.61	41834.88	503.38
270	0.00	455.72	-455.72	0.00	-255.30	48306.76	581.26
300	272.46	394.67	-394.67	-272.46	-29136.21	41834.88	503.38
330	471.92	227.86	-227.86	-471.92	-50278.50	24153.38	290.63

AIR-21 - Elevation 106 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	272.46	394.67	-38.62	-478.02	-50542.88	3873.07	503.38
30	0.00	455.72	227.86	-394.67	-41707.24	-24374.47	581.26
60	272.46	394.67	433.29	-205.56	-21661.97	-46150.14	503.38
90	471.92	227.86	522.62	38.62	4221.81	-55619.15	290.63
120	544.92	0.00	471.92	272.46	29008.56	-50244.30	0.00
150	471.92	227.86	294.76	433.29	46056.69	-31465.77	-290.63
180	272.46	394.67	38.62	478.02	50798.18	-4315.25	-503.38
210	0.00	455.72	-227.86	394.67	41962.53	23932.29	-581.26
240	272.46	394.67	-433.29	205.56	21917.27	45707.95	-503.38
270	471.92	227.86	-522.62	-38.62	-3966.51	55176.96	-290.63
300	544.92	0.00	-471.92	-272.46	-28753.26	49802.11	0.00
330	471.92	227.86	-294.76	-433.29	-45801.40	31023.58	290.63

AIR-21 - Elevation 106 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	272.46	394.67	38.62	-478.02	-50542.88	-3873.07	-503.38
30	471.92	227.86	294.76	-433.29	-45801.40	-31023.58	-290.63
60	544.92	0.00	471.92	-272.46	-28753.26	-49802.11	0.00
90	471.92	227.86	522.62	-38.62	-3966.51	-55176.96	290.63
120	272.46	394.67	433.29	205.56	21917.27	-45707.95	503.38
150	0.00	455.72	227.86	394.67	41962.53	-23932.29	581.26
180	272.46	394.67	-38.62	478.02	50798.18	4315.25	503.38
210	471.92	227.86	-294.76	433.29	46056.69	31465.77	290.63

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

AIR-21 - Elevation 106 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
240	544.92	0.00	-471.92	272.46	29008.56	50244.30	0.00
270	471.92	227.86	-522.62	38.62	4221.81	55619.15	-290.63
300	272.46	394.67	-433.29	-205.56	-21661.97	46150.14	-503.38
330	0.00	455.72	-227.86	-394.67	-41707.24	24374.47	-581.26

TMA - 10"x6"x3" - Elevation 106 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	20.85	0.00	0.00	-20.85	-2223.03	0.00	0.00
30	18.06	5.38	5.38	-18.06	-1926.91	-570.22	-6.86
60	10.43	9.32	9.32	-10.43	-1117.89	-987.65	-11.88
90	0.00	10.76	10.76	0.00	-12.75	-1140.44	-13.72
120	10.43	9.32	9.32	10.43	1092.38	-987.65	-11.88
150	18.06	5.38	5.38	18.06	1901.40	-570.22	-6.86
180	20.85	0.00	0.00	20.85	2197.52	0.00	0.00
210	18.06	5.38	-5.38	18.06	1901.40	570.22	6.86
240	10.43	9.32	-9.32	10.43	1092.38	987.65	11.88
270	0.00	10.76	-10.76	0.00	-12.75	1140.44	13.72
300	10.43	9.32	-9.32	-10.43	-1117.89	987.65	11.88
330	18.06	5.38	-5.38	-18.06	-1926.91	570.22	6.86

TMA - 10"x6"x3" - Elevation 106 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	10.43	9.32	-4.37	-13.28	-1401.52	452.21	11.88
30	0.00	10.76	5.38	-9.32	-981.27	-581.27	13.72
60	10.43	9.32	13.69	-2.86	-296.38	-1461.95	11.88
90	18.06	5.38	18.33	4.37	469.63	-1953.86	6.86
120	20.85	0.00	18.06	10.43	1111.51	-1925.20	0.00
150	18.06	5.38	12.95	13.69	1457.28	-1383.64	-6.86
180	10.43	9.32	4.37	13.28	1414.28	-474.30	-11.88
210	0.00	10.76	-5.38	9.32	994.03	559.17	-13.72
240	10.43	9.32	-13.69	2.86	309.14	1439.86	-11.88
270	18.06	5.38	-18.33	-4.37	-456.87	1931.77	-6.86
300	20.85	0.00	-18.06	-10.43	-1098.76	1903.11	0.00
330	18.06	5.38	-12.95	-13.69	-1444.52	1361.55	6.86

TMA - 10"x6"x3" - Elevation 106 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	10.43	9.32	4.37	-13.28	-1401.52	-452.21	-11.88
30	18.06	5.38	12.95	-13.69	-1444.52	-1361.55	-6.86
60	20.85	0.00	18.06	-10.43	-1098.76	-1903.11	0.00
90	18.06	5.38	18.33	-4.37	-456.87	-1931.77	6.86
120	10.43	9.32	13.69	2.86	309.14	-1439.86	11.88
150	0.00	10.76	5.38	9.32	994.03	-559.17	13.72
180	10.43	9.32	-4.37	13.28	1414.28	474.30	11.88
210	18.06	5.38	-12.95	13.69	1457.28	1383.64	6.86
240	20.85	0.00	-18.06	10.43	1111.51	1925.20	0.00
270	18.06	5.38	-18.33	4.37	469.63	1953.86	-6.86
300	10.43	9.32	-13.69	-2.86	-296.38	1461.95	-11.88

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

<i>TMA - 10"x6"x3" - Elevation 106 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
330	0.00	10.76	-5.38	-9.32	-981.27	581.27	-13.72

<i>Clamp Ring Assembly - Elevation 106 - None B</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.42	0.00	0.00	-0.42	-44.21	0.00	0.00
30	0.42	0.00	0.21	-0.36	-38.28	-22.10	0.00
60	0.42	0.00	0.36	-0.21	-22.10	-38.28	0.00
90	0.42	0.00	0.42	0.00	0.00	-44.21	0.00
120	0.42	0.00	0.36	0.21	22.10	-38.28	0.00
150	0.42	0.00	0.21	0.36	38.28	-22.10	0.00
180	0.42	0.00	0.00	0.42	44.21	0.00	0.00
210	0.42	0.00	-0.21	0.36	38.28	22.10	0.00
240	0.42	0.00	-0.36	0.21	22.10	38.28	0.00
270	0.42	0.00	-0.42	0.00	0.00	44.21	0.00
300	0.42	0.00	-0.36	-0.21	-22.10	38.28	0.00
330	0.42	0.00	-0.21	-0.36	-38.28	22.10	0.00

<i>RRUS-11 - Elevation 98 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	155.55	72.76	98.33	-140.78	-13722.05	-9507.15	-98.74
30	269.42	42.01	212.32	-171.09	-16691.86	-20678.05	-57.01
60	311.10	0.00	269.42	-155.55	-15169.10	-26273.65	0.00
90	269.42	42.01	254.33	-98.33	-9561.79	-24794.60	57.01
120	155.55	72.76	171.09	-14.77	-1372.40	-16637.22	98.74
150	0.00	84.01	42.01	72.76	7204.72	-3987.27	114.01
180	155.55	72.76	-98.33	140.78	13871.34	9765.71	98.74
210	269.42	42.01	-212.32	171.09	16841.14	20936.62	57.01
240	311.10	0.00	-269.42	155.55	15318.38	26532.22	0.00
270	269.42	42.01	-254.33	98.33	9711.07	25053.17	-57.01
300	155.55	72.76	-171.09	14.77	1521.69	16895.79	-98.74
330	0.00	84.01	-42.01	-72.76	-7055.43	4245.83	-114.01

<i>RRUS-11 - Elevation 98 - From Leg B</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	155.55	72.76	-98.33	-140.78	-13722.05	9507.15	98.74
30	0.00	84.01	42.01	-72.76	-7055.43	-4245.83	114.01
60	155.55	72.76	171.09	14.77	1521.69	-16895.79	98.74
90	269.42	42.01	254.33	98.33	9711.07	-25053.17	57.01
120	311.10	0.00	269.42	155.55	15318.38	-26532.22	0.00
150	269.42	42.01	212.32	171.09	16841.14	-20936.62	-57.01
180	155.55	72.76	98.33	140.78	13871.34	-9765.71	-98.74
210	0.00	84.01	-42.01	72.76	7204.72	3987.27	-114.01
240	155.55	72.76	-171.09	-14.77	-1372.40	16637.22	-98.74
270	269.42	42.01	-254.33	-98.33	-9561.79	24794.60	-57.01
300	311.10	0.00	-269.42	-155.55	-15169.10	26273.65	0.00
330	269.42	42.01	-212.32	-171.09	-16691.86	20678.05	57.01

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 98 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	311.10	0.00	0.00	-311.10	-30636.76	0.00	0.00
30	269.42	42.01	42.01	-269.42	-26552.22	-4116.55	-57.01
60	155.55	72.76	72.76	-155.55	-15393.02	-7130.07	-98.74
90	0.00	84.01	84.01	0.00	-149.28	-8233.10	-114.01
120	155.55	72.76	72.76	155.55	15094.46	-7130.07	-98.74
150	269.42	42.01	42.01	269.42	26253.65	-4116.55	-57.01
180	311.10	0.00	0.00	311.10	30338.20	0.00	0.00
210	269.42	42.01	-42.01	269.42	26253.65	4116.55	57.01
240	155.55	72.76	-72.76	155.55	15094.46	7130.07	98.74
270	0.00	84.01	-84.01	0.00	-149.28	8233.10	114.01
300	155.55	72.76	-72.76	-155.55	-15393.02	7130.07	98.74
330	269.42	42.01	-42.01	-269.42	-26552.22	4116.55	57.01

RR-RM1560 - 6 Sector Ring Mount - Elevation 98 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	179.46	0.00	0.00	-179.46	-17587.32	0.00	0.00
30	179.46	0.00	89.73	-155.42	-15231.07	-8793.66	0.00
60	179.46	0.00	155.42	-89.73	-8793.66	-15231.07	0.00
90	179.46	0.00	179.46	0.00	0.00	-17587.32	0.00
120	179.46	0.00	155.42	89.73	8793.66	-15231.07	0.00
150	179.46	0.00	89.73	155.42	15231.07	-8793.66	0.00
180	179.46	0.00	0.00	179.46	17587.32	0.00	0.00
210	179.46	0.00	-89.73	155.42	15231.07	8793.66	0.00
240	179.46	0.00	-155.42	89.73	8793.66	15231.07	0.00
270	179.46	0.00	-179.46	0.00	0.00	17587.32	0.00
300	179.46	0.00	-155.42	-89.73	-8793.66	15231.07	0.00
330	179.46	0.00	-89.73	-155.42	-15231.07	8793.66	0.00

Panel-72x12x9 - Elevation 96 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	171.54	278.54	9.28	-326.99	-31329.44	-784.02	-383.70
30	297.11	160.82	176.90	-287.83	-27569.46	-16874.91	-221.53
60	343.08	0.00	297.11	-171.54	-16405.66	-28415.43	0.00
90	297.11	160.82	337.71	-9.28	-829.37	-32313.30	221.53
120	171.54	278.54	287.83	155.46	14985.74	-27524.10	383.70
150	0.00	321.63	160.82	278.54	26802.04	-15331.07	443.06
180	171.54	278.54	-9.28	326.99	31453.36	998.66	383.70
210	297.11	160.82	-176.90	287.83	27693.38	17089.55	221.53
240	343.08	0.00	-297.11	171.54	16529.58	28630.07	0.00
270	297.11	160.82	-337.71	9.28	953.30	32527.95	-221.53
300	171.54	278.54	-287.83	-155.46	-14861.82	27738.74	-383.70
330	0.00	321.63	-160.82	-278.54	-26678.12	15545.71	-443.06

Panel-72x12x9 - Elevation 96 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	171.54	278.54	-9.28	-326.99	-31329.44	784.02	383.70
30	0.00	321.63	160.82	-278.54	-26678.12	-15545.71	443.06

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 96 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	171.54	278.54	287.83	-155.46	-14861.82	-27738.74	383.70
90	297.11	160.82	337.71	9.28	953.30	-32527.95	221.53
120	343.08	0.00	297.11	171.54	16529.58	-28630.07	0.00
150	297.11	160.82	176.90	287.83	27693.38	-17089.55	-221.53
180	171.54	278.54	9.28	326.99	31453.36	-998.66	-383.70
210	0.00	321.63	-160.82	278.54	26802.04	15331.07	-443.06
240	171.54	278.54	-287.83	155.46	14985.74	27524.10	-383.70
270	297.11	160.82	-337.71	-9.28	-829.37	32313.30	-221.53
300	343.08	0.00	-297.11	-171.54	-16405.66	28415.43	0.00
330	297.11	160.82	-176.90	-287.83	-27569.46	16874.91	221.53

Panel-72x12x9 - Elevation 96 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	343.08	0.00	0.00	-343.08	-33059.16	0.00	0.00
30	297.11	160.82	160.82	-297.11	-28646.68	-15438.39	-221.53
60	171.54	278.54	278.54	-171.54	-16591.54	-26740.08	-383.70
90	0.00	321.63	321.63	0.00	-123.92	-30876.79	-443.06
120	171.54	278.54	278.54	171.54	16343.70	-26740.08	-383.70
150	297.11	160.82	160.82	297.11	28398.83	-15438.39	-221.53
180	343.08	0.00	0.00	343.08	32811.31	0.00	0.00
210	297.11	160.82	-160.82	297.11	28398.83	15438.39	221.53
240	171.54	278.54	-278.54	171.54	16343.70	26740.08	383.70
270	0.00	321.63	-321.63	0.00	-123.92	30876.79	443.06
300	171.54	278.54	-278.54	-171.54	-16591.54	26740.08	383.70
330	297.11	160.82	-160.82	-297.11	-28646.68	15438.39	221.53

RRUS-11 - Elevation 96 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	77.44	36.22	48.95	-70.09	-6690.41	-4633.83	-49.89
30	134.13	20.91	105.70	-85.17	-8138.71	-10081.59	-28.81
60	154.87	0.00	134.13	-77.44	-7396.10	-12810.42	0.00
90	134.13	20.91	126.61	-48.95	-4661.56	-12089.13	28.81
120	77.44	36.22	85.17	-7.35	-667.80	-8110.98	49.89
150	0.00	41.82	20.91	36.22	3515.04	-1941.92	57.61
180	77.44	36.22	-48.95	70.09	6766.18	4765.05	49.89
210	134.13	20.91	-105.70	85.17	8214.48	10212.82	28.81
240	154.87	0.00	-134.13	77.44	7471.86	12941.65	0.00
270	134.13	20.91	-126.61	48.95	4737.32	12220.35	-28.81
300	77.44	36.22	-85.17	7.35	743.57	8242.21	-49.89
330	0.00	41.82	-20.91	-36.22	-3439.27	2073.15	-57.61

RRUS-11 - Elevation 96 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	77.44	36.22	-48.95	-70.09	-6690.41	4633.83	49.89
30	0.00	41.82	20.91	-36.22	-3439.27	-2073.15	57.61
60	77.44	36.22	85.17	7.35	743.57	-8242.21	49.89
90	134.13	20.91	126.61	48.95	4737.32	-12220.35	28.81
120	154.87	0.00	134.13	77.44	7471.86	-12941.65	0.00

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	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

RRUS-11 - Elevation 96 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
150	134.13	20.91	105.70	85.17	8214.48	-10212.82	-28.81
180	77.44	36.22	48.95	70.09	6766.18	-4765.05	-49.89
210	0.00	41.82	-20.91	36.22	3515.04	1941.92	-57.61
240	77.44	36.22	-85.17	-7.35	-667.80	8110.98	-49.89
270	134.13	20.91	-126.61	-48.95	-4661.56	12089.13	-28.81
300	154.87	0.00	-134.13	-77.44	-7396.10	12810.42	0.00
330	134.13	20.91	-105.70	-85.17	-8138.71	10081.59	28.81

RRUS-11 - Elevation 96 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	154.87	0.00	0.00	-154.87	-14943.73	0.00	0.00
30	134.13	20.91	20.91	-134.13	-12951.80	-2007.54	-28.81
60	77.44	36.22	36.22	-77.44	-7509.75	-3477.15	-49.89
90	0.00	41.82	41.82	0.00	-75.76	-4015.07	-57.61
120	77.44	36.22	36.22	77.44	7358.22	-3477.15	-49.89
150	134.13	20.91	20.91	134.13	12800.27	-2007.54	-28.81
180	154.87	0.00	0.00	154.87	14792.20	0.00	0.00
210	134.13	20.91	-20.91	134.13	12800.27	2007.54	28.81
240	77.44	36.22	-36.22	77.44	7358.22	3477.15	49.89
270	0.00	41.82	-41.82	0.00	-75.76	4015.07	57.61
300	77.44	36.22	-36.22	-77.44	-7509.75	3477.15	49.89
330	134.13	20.91	-20.91	-134.13	-12951.80	2007.54	28.81

Clamp Ring Assembly - Elevation 96 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.51	0.00	0.00	-0.51	-49.01	0.00	0.00
30	0.51	0.00	0.26	-0.44	-42.44	-24.51	0.00
60	0.51	0.00	0.44	-0.26	-24.51	-42.44	0.00
90	0.51	0.00	0.51	0.00	0.00	-49.01	0.00
120	0.51	0.00	0.44	0.26	24.51	-42.44	0.00
150	0.51	0.00	0.26	0.44	42.44	-24.51	0.00
180	0.51	0.00	0.00	0.51	49.01	0.00	0.00
210	0.51	0.00	-0.26	0.44	42.44	24.51	0.00
240	0.51	0.00	-0.44	0.26	24.51	42.44	0.00
270	0.51	0.00	-0.51	0.00	0.00	49.01	0.00
300	0.51	0.00	-0.44	-0.26	-24.51	42.44	0.00
330	0.51	0.00	-0.26	-0.44	-42.44	24.51	0.00

RRUS-11 - Elevation 88 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	152.06	71.13	96.13	-137.63	-12031.05	-8320.24	-103.79
30	263.38	41.06	207.56	-167.25	-14638.07	-18126.52	-59.92
60	304.13	0.00	263.38	-152.06	-13301.32	-23038.57	0.00
90	263.38	41.06	248.63	-96.13	-8379.00	-21740.20	59.92
120	152.06	71.13	167.25	-14.43	-1190.02	-14579.32	103.79
150	0.00	82.13	41.06	71.13	6339.33	-3474.67	119.84
180	152.06	71.13	-96.13	137.63	12191.56	8598.26	103.79
210	263.38	41.06	-207.56	167.25	14798.58	18404.54	59.92

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 88 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
240	304.13	0.00	-263.38	152.06	13461.84	23316.59	0.00
270	263.38	41.06	-248.63	96.13	8539.51	22018.22	-59.92
300	152.06	71.13	-167.25	14.43	1350.53	14857.33	-103.79
330	0.00	82.13	-41.06	-71.13	-6178.82	3752.68	-119.84

RRUS-11 - Elevation 88 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	152.06	71.13	-96.13	-137.63	-12031.05	8320.24	103.79
30	0.00	82.13	41.06	-71.13	-6178.82	-3752.68	119.84
60	152.06	71.13	167.25	14.43	1350.53	-14857.33	103.79
90	263.38	41.06	248.63	96.13	8539.51	-22018.22	59.92
120	304.13	0.00	263.38	152.06	13461.84	-23316.59	0.00
150	263.38	41.06	207.56	167.25	14798.58	-18404.54	-59.92
180	152.06	71.13	96.13	137.63	12191.56	-8598.26	-103.79
210	0.00	82.13	-41.06	71.13	6339.33	3474.67	-119.84
240	152.06	71.13	-167.25	-14.43	-1190.02	14579.32	-103.79
270	263.38	41.06	-248.63	-96.13	-8379.00	21740.20	-59.92
300	304.13	0.00	-263.38	-152.06	-13301.32	23038.57	0.00
330	263.38	41.06	-207.56	-167.25	-14638.07	18126.52	59.92

RRUS-11 - Elevation 88 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	304.13	0.00	0.00	-304.13	-26923.67	0.00	0.00
30	263.38	41.06	41.06	-263.38	-23338.09	-3613.68	-59.92
60	152.06	71.13	71.13	-152.06	-13542.09	-6259.07	-103.79
90	0.00	82.13	82.13	0.00	-160.51	-7227.35	-119.84
120	152.06	71.13	71.13	152.06	13221.07	-6259.07	-103.79
150	263.38	41.06	41.06	263.38	23017.06	-3613.68	-59.92
180	304.13	0.00	0.00	304.13	26602.65	0.00	0.00
210	263.38	41.06	-41.06	263.38	23017.06	3613.68	59.92
240	152.06	71.13	-71.13	152.06	13221.07	6259.07	103.79
270	0.00	82.13	-82.13	0.00	-160.51	7227.35	119.84
300	152.06	71.13	-71.13	-152.06	-13542.09	6259.07	103.79
330	263.38	41.06	-41.06	-263.38	-23338.09	3613.68	59.92

RR-RM1560 - 6 Sector Ring Mount - Elevation 88 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	175.44	0.00	0.00	-175.44	-15438.87	0.00	0.00
30	175.44	0.00	87.72	-151.94	-13370.45	-7719.44	0.00
60	175.44	0.00	151.94	-87.72	-7719.44	-13370.45	0.00
90	175.44	0.00	175.44	0.00	0.00	-15438.87	0.00
120	175.44	0.00	151.94	87.72	7719.44	-13370.45	0.00
150	175.44	0.00	87.72	151.94	13370.45	-7719.44	0.00
180	175.44	0.00	0.00	175.44	15438.87	0.00	0.00
210	175.44	0.00	-87.72	151.94	13370.45	7719.44	0.00
240	175.44	0.00	-151.94	87.72	7719.44	13370.45	0.00
270	175.44	0.00	-175.44	0.00	0.00	15438.87	0.00
300	175.44	0.00	-151.94	-87.72	-7719.44	13370.45	0.00

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RR-RM1560 - 6 Sector Ring Mount - Elevation 88 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	175.44	0.00	-87.72	-151.94	-13370.45	7719.44	0.00

Panel-72x12x9 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	167.61	272.17	9.07	-319.51	-27411.15	-664.94	-402.70
30	290.31	157.14	172.85	-281.24	-24119.94	-14749.71	-232.50
60	335.22	0.00	290.31	-167.61	-14347.98	-24851.43	0.00
90	290.31	157.14	329.98	-9.07	-713.66	-28263.34	232.50
120	167.61	272.17	281.24	151.90	13129.72	-24071.22	402.70
150	0.00	314.27	157.14	272.17	23472.84	-13398.35	465.00
180	167.61	272.17	-9.07	319.51	27544.26	895.48	402.70
210	290.31	157.14	-172.85	281.24	24253.05	14980.26	232.50
240	335.22	0.00	-290.31	167.61	14481.09	25081.98	0.00
270	290.31	157.14	-329.98	9.07	846.76	28493.89	-232.50
300	167.61	272.17	-281.24	-151.90	-12996.62	24301.77	-402.70
330	0.00	314.27	-157.14	-272.17	-23339.73	13628.90	-465.00

Panel-72x12x9 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	167.61	272.17	-9.07	-319.51	-27411.15	664.94	402.70
30	0.00	314.27	157.14	-272.17	-23339.73	-13628.90	465.00
60	167.61	272.17	281.24	-151.90	-12996.62	-24301.77	402.70
90	290.31	157.14	329.98	9.07	846.76	-28493.89	232.50
120	335.22	0.00	290.31	167.61	14481.09	-25081.98	0.00
150	290.31	157.14	172.85	281.24	24253.05	-14980.26	-232.50
180	167.61	272.17	9.07	319.51	27544.26	-895.48	-402.70
210	0.00	314.27	-157.14	272.17	23472.84	13398.35	-465.00
240	167.61	272.17	-281.24	151.90	13129.72	24071.22	-402.70
270	290.31	157.14	-329.98	-9.07	-713.66	28263.34	-232.50
300	335.22	0.00	-290.31	-167.61	-14347.98	24851.43	0.00
330	290.31	157.14	-172.85	-281.24	-24119.94	14749.71	232.50

Panel-72x12x9 - Elevation 86 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	335.22	0.00	0.00	-335.22	-28962.17	0.00	0.00
30	290.31	157.14	157.14	-290.31	-25099.81	-13513.63	-232.50
60	167.61	272.17	272.17	-167.61	-14547.64	-23406.29	-402.70
90	0.00	314.27	314.27	0.00	-133.11	-27027.25	-465.00
120	167.61	272.17	272.17	167.61	14281.43	-23406.29	-402.70
150	290.31	157.14	157.14	290.31	24833.60	-13513.63	-232.50
180	335.22	0.00	0.00	335.22	28695.96	0.00	0.00
210	290.31	157.14	-157.14	290.31	24833.60	13513.63	232.50
240	167.61	272.17	-272.17	167.61	14281.43	23406.29	402.70
270	0.00	314.27	-314.27	0.00	-133.11	27027.25	465.00
300	167.61	272.17	-272.17	-167.61	-14547.64	23406.29	402.70
330	290.31	157.14	-157.14	-290.31	-25099.81	13513.63	232.50

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RRUS-11 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	75.66	35.39	47.83	-68.48	-5848.76	-4043.06	-52.37
30	131.05	20.43	103.28	-83.22	-7116.49	-8811.63	-30.23
60	151.33	0.00	131.05	-75.66	-6466.47	-11200.25	0.00
90	131.05	20.43	123.71	-47.83	-4072.85	-10568.88	30.23
120	75.66	35.39	83.22	-7.18	-577.02	-7086.71	52.37
150	0.00	40.87	20.43	35.39	3084.33	-1686.77	60.47
180	75.66	35.39	-47.83	68.48	5930.14	4184.02	52.37
210	131.05	20.43	-103.28	83.22	7197.87	8952.59	30.23
240	151.33	0.00	-131.05	75.66	6547.85	11341.20	0.00
270	131.05	20.43	-123.71	47.83	4154.23	10709.84	-30.23
300	75.66	35.39	-83.22	7.18	658.40	7227.66	-52.37
330	0.00	40.87	-20.43	-35.39	-3002.95	1827.72	-60.47

RRUS-11 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	75.66	35.39	-47.83	-68.48	-5848.76	4043.06	52.37
30	0.00	40.87	20.43	-35.39	-3002.95	-1827.72	60.47
60	75.66	35.39	83.22	7.18	658.40	-7227.66	52.37
90	131.05	20.43	123.71	47.83	4154.23	-10709.84	30.23
120	151.33	0.00	131.05	75.66	6547.85	-11341.20	0.00
150	131.05	20.43	103.28	83.22	7197.87	-8952.59	-30.23
180	75.66	35.39	47.83	68.48	5930.14	-4184.02	-52.37
210	0.00	40.87	-20.43	35.39	3084.33	1686.77	-60.47
240	75.66	35.39	-83.22	-7.18	-577.02	7086.71	-52.37
270	131.05	20.43	-123.71	-47.83	-4072.85	10568.88	-30.23
300	151.33	0.00	-131.05	-75.66	-6466.47	11200.25	0.00
330	131.05	20.43	-103.28	-83.22	-7116.49	8811.63	30.23

RRUS-11 - Elevation 86 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	151.33	0.00	0.00	-151.33	-13095.69	0.00	0.00
30	131.05	20.43	20.43	-131.05	-11352.10	-1757.25	-30.23
60	75.66	35.39	35.39	-75.66	-6588.54	-3043.64	-52.37
90	0.00	40.87	40.87	0.00	-81.38	-3514.50	-60.47
120	75.66	35.39	35.39	75.66	6425.78	-3043.64	-52.37
150	131.05	20.43	20.43	131.05	11189.35	-1757.25	-30.23
180	151.33	0.00	0.00	151.33	12932.93	0.00	0.00
210	131.05	20.43	-20.43	131.05	11189.35	1757.25	30.23
240	75.66	35.39	-35.39	75.66	6425.78	3043.64	52.37
270	0.00	40.87	-40.87	0.00	-81.38	3514.50	60.47
300	75.66	35.39	-35.39	-75.66	-6588.54	3043.64	52.37
330	131.05	20.43	-20.43	-131.05	-11352.10	1757.25	30.23

Clamp Ring Assembly - Elevation 86 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.50	0.00	0.00	-0.50	-42.90	0.00	0.00
30	0.50	0.00	0.25	-0.43	-37.15	-21.45	0.00

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Clamp Ring Assembly - Elevation 86 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	0.50	0.00	0.43	-0.25	-21.45	-37.15	0.00
90	0.50	0.00	0.50	0.00	0.00	-42.90	0.00
120	0.50	0.00	0.43	0.25	21.45	-37.15	0.00
150	0.50	0.00	0.25	0.43	37.15	-21.45	0.00
180	0.50	0.00	0.00	0.50	42.90	0.00	0.00
210	0.50	0.00	-0.25	0.43	37.15	21.45	0.00
240	0.50	0.00	-0.43	0.25	21.45	37.15	0.00
270	0.50	0.00	-0.50	0.00	0.00	42.90	0.00
300	0.50	0.00	-0.43	-0.25	-21.45	37.15	0.00
330	0.50	0.00	-0.25	-0.43	-37.15	21.45	0.00

Dish Pipe Mount - Elevation 76 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	60.61	30.31	-52.49	-3907.86	-2444.32	95.87
30	0.00	69.99	34.99	-60.61	-4525.00	-2800.63	110.70
60	0.00	60.61	30.31	-52.49	-3907.86	-2444.32	95.87
90	0.00	34.99	17.50	-30.31	-2221.77	-1470.86	55.35
120	0.00	0.00	0.00	0.00	81.46	-141.09	0.00
150	0.00	34.99	-17.50	30.31	2384.69	1188.68	-55.35
180	0.00	60.61	-30.31	52.49	4070.77	2162.14	-95.87
210	0.00	69.99	-34.99	60.61	4687.92	2518.45	-110.70
240	0.00	60.61	-30.31	52.49	4070.77	2162.14	-95.87
270	0.00	34.99	-17.50	30.31	2384.69	1188.68	-55.35
300	0.00	0.00	0.00	0.00	81.46	-141.09	0.00
330	0.00	34.99	17.50	-30.31	-2221.77	-1470.86	55.35

Clamp Ring Assembly - Elevation 76 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.39	0.00	0.00	-0.39	-29.55	0.00	0.00
30	0.39	0.00	0.19	-0.34	-25.59	-14.78	0.00
60	0.39	0.00	0.34	-0.19	-14.78	-25.59	0.00
90	0.39	0.00	0.39	0.00	0.00	-29.55	0.00
120	0.39	0.00	0.34	0.19	14.78	-25.59	0.00
150	0.39	0.00	0.19	0.34	25.59	-14.78	0.00
180	0.39	0.00	0.00	0.39	29.55	0.00	0.00
210	0.39	0.00	-0.19	0.34	25.59	14.78	0.00
240	0.39	0.00	-0.34	0.19	14.78	25.59	0.00
270	0.39	0.00	-0.39	0.00	0.00	29.55	0.00
300	0.39	0.00	-0.34	-0.19	-14.78	25.59	0.00
330	0.39	0.00	-0.19	-0.34	-25.59	14.78	0.00

Discrete Appurtenance Totals - No Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	30.31	-12296.42	-1345346.02	-2335.27	-164.41
30	6156.96	-10664.16	-1166235.43	-673444.65	-2.15

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 34 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	10633.86	-6174.45	-674592.95	-1164113.67	160.69
90	12261.42	-30.31	-2153.79	-1342867.96	280.48
120	10603.55	6121.96	670902.51	-1161810.44	325.11
150	6104.47	10633.86	1164231.07	-669455.34	282.62
180	-30.31	12296.42	1345644.90	2271.19	164.41
210	-6156.96	10664.16	1166534.30	673380.58	2.15
240	-10633.86	6174.45	674891.82	1164049.59	-160.69
270	-12261.42	30.31	2452.67	1342803.88	-280.48
300	-10603.55	-6121.96	-670603.63	1161746.36	-325.11
330	-6104.47	-10633.86	-1163932.19	669391.26	-282.62

Discrete Appurtenance Pressures - With Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _A A _C Front ft ²	C _A A _C Side ft ²	t _z in
10' Lightning Rod	240.0000	173.69	-0.90	0.52	134.00	1.346	8	9.24	9.24	2.1489
101-83B-09-0-03	240.0000	183.95	-0.90	0.52	129.00	1.335	8	6.55	6.55	2.1489
Clamp Ring Assembly	0.0000	700.51	0.00	0.00	129.00	1.335	8	0.01	0.01	2.1489
Panel-72x12x9	240.0000	446.73	-0.93	0.54	126.00	1.329	8	11.94	13.56	2.1438
Panel-72x12x9	120.0000	446.73	0.93	0.54	126.00	1.329	8	11.94	13.56	2.1438
Panel-72x12x9	0.0000	446.73	0.00	-1.07	126.00	1.329	8	11.94	13.56	2.1438
RRUS-11	240.0000	496.54	-0.93	0.54	126.00	1.329	8	16.11	5.75	2.1438
RRUS-11	120.0000	496.54	0.93	0.54	126.00	1.329	8	16.11	5.75	2.1438
RRUS-11	0.0000	496.54	0.00	-1.07	126.00	1.329	8	16.11	5.75	2.1438
Low-Profile Platform 14'	0.0000	1509.04	0.00	0.00	126.00	1.329	8	63.88	63.88	2.1438
Panel-72x12x9	240.0000	443.61	-1.02	0.59	116.00	1.306	8	11.91	13.51	2.1262
Panel-72x12x9	120.0000	443.61	1.02	0.59	116.00	1.306	8	11.91	13.51	2.1262
Panel-72x12x9	0.0000	443.61	0.00	-1.17	116.00	1.306	8	11.91	13.51	2.1262
RRUS-11	240.0000	493.81	-1.02	0.59	116.00	1.306	8	16.07	5.73	2.1262
RRUS-11	120.0000	493.81	1.02	0.59	116.00	1.306	8	16.07	5.73	2.1262
RRUS-11	0.0000	493.81	0.00	-1.17	116.00	1.306	8	16.07	5.73	2.1262
Low-Profile Platform 14'	0.0000	1505.72	0.00	0.00	116.00	1.306	8	63.52	63.52	2.1262
10' Whip	240.0000	68.71	-1.09	0.63	113.00	1.299	8	6.03	6.03	2.1110
Clamp Ring Assembly	0.0000	692.24	0.00	0.00	108.00	1.286	8	0.01	0.01	2.1110
10' Whip	120.0000	68.71	1.09	0.63	113.00	1.299	8	6.03	6.03	2.1110
Clamp Ring Assembly	0.0000	692.24	0.00	0.00	108.00	1.286	8	0.01	0.01	2.1110
AIR-21	0.0000	721.84	0.00	-1.28	106.00	1.281	8	18.72	20.42	2.1071
AIR-21	120.0000	721.84	1.10	0.64	106.00	1.281	8	18.72	20.42	2.1071
AIR-21	240.0000	721.84	-1.10	0.64	106.00	1.281	8	18.72	20.42	2.1071
TMA - 10"x6"x3"	0.0000	10.14	0.00	-1.28	106.00	1.281	8	1.10	0.73	2.1071
TMA - 10"x6"x3"	120.0000	10.14	1.10	0.64	106.00	1.281	8	1.10	0.73	2.1071
TMA - 10"x6"x3"	240.0000	10.14	-1.10	0.64	106.00	1.281	8	1.10	0.73	2.1071
Clamp Ring Assembly	0.0000	691.38	0.00	0.00	106.00	1.281	8	0.01	0.01	2.1071
RRUS-11	240.0000	325.54	-1.18	0.68	98.00	1.260	8	10.66	3.79	2.0906
RRUS-11	120.0000	325.54	1.18	0.68	98.00	1.260	8	10.66	3.79	2.0906
RRUS-11	0.0000	325.54	0.00	-1.36	98.00	1.260	8	10.66	3.79	2.0906
RR-RM1560 - 6 Sector Ring Mount	0.0000	382.24	0.00	0.00	98.00	1.260	8	7.68	7.68	2.0906
Panel-72x12x9	240.0000	436.57	-1.19	0.69	96.00	1.255	8	11.85	13.41	2.0863
Panel-72x12x9	120.0000	436.57	1.19	0.69	96.00	1.255	8	11.85	13.41	2.0863
Panel-72x12x9	0.0000	436.57	0.00	-1.38	96.00	1.255	8	11.85	13.41	2.0863
RRUS-11	240.0000	162.55	-1.19	0.69	96.00	1.255	8	5.33	1.89	2.0863
RRUS-11	120.0000	162.55	1.19	0.69	96.00	1.255	8	5.33	1.89	2.0863
RRUS-11	0.0000	162.55	0.00	-1.38	96.00	1.255	8	5.33	1.89	2.0863
Clamp Ring Assembly	0.0000	686.84	0.00	0.00	96.00	1.255	8	0.01	0.01	2.0863
RRUS-11	240.0000	323.23	-1.26	0.73	88.00	1.232	7	10.63	3.77	2.0682

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	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²	t _z in
RRUS-11	120.0000	323.23	1.26	0.73	88.00	1.232	7	10.63	3.77	2.0682
RRUS-11	0.0000	323.23	0.00	-1.46	88.00	1.232	7	10.63	3.77	2.0682
RR-RM1560 - 6 Sector Ring Mount	0.0000	379.46	0.00	0.00	88.00	1.232	7	7.64	7.64	2.0682
Panel-72x12x9	240.0000	432.53	-1.28	0.74	86.00	1.226	7	11.81	13.35	2.0635
Panel-72x12x9	120.0000	432.53	1.28	0.74	86.00	1.226	7	11.81	13.35	2.0635
Panel-72x12x9	0.0000	432.53	0.00	-1.48	86.00	1.226	7	11.81	13.35	2.0635
RRUS-11	240.0000	161.37	-1.28	0.74	86.00	1.226	7	5.31	1.88	2.0635
RRUS-11	120.0000	161.37	1.28	0.74	86.00	1.226	7	5.31	1.88	2.0635
RRUS-11	0.0000	161.37	0.00	-1.48	86.00	1.226	7	5.31	1.88	2.0635
Clamp Ring Assembly	0.0000	681.85	0.00	0.00	86.00	1.226	7	0.01	0.01	2.0635
Dish Pipe Mount	120.0000	168.22	1.37	0.79	76.00	1.195	7	0.00	3.02	2.0381
Clamp Ring Assembly	0.0000	676.31	0.00	0.00	76.00	1.195	7	0.01	0.01	2.0381
Sum Weight:		22624.46								

Discrete Appurtenance Vectors - With Ice

10' Lightning Rod - Elevation 134 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	41.59	72.03	0.00	-83.18	-11055.38	156.53	-74.96
30	72.03	41.59	41.59	-72.03	-9562.13	-5416.34	-43.28
60	83.18	0.00	72.03	-41.59	-5482.50	-9495.97	0.00
90	72.03	41.59	83.18	0.00	90.38	-10989.22	43.28
120	41.59	72.03	72.03	41.59	5663.25	-9495.97	74.96
150	0.00	83.18	41.59	72.03	9742.88	-5416.34	86.56
180	41.59	72.03	0.00	83.18	11236.13	156.53	74.96
210	72.03	41.59	-41.59	72.03	9742.88	5729.41	43.28
240	83.18	0.00	-72.03	41.59	5663.25	9809.04	0.00
270	72.03	41.59	-83.18	0.00	90.38	11302.29	-43.28
300	41.59	72.03	-72.03	-41.59	-5482.50	9809.04	-74.96
330	0.00	83.18	-41.59	-72.03	-9562.13	5729.41	-86.56

101-83B-09-0-03 - Elevation 129 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	23.39	40.51	0.00	-46.77	-5938.20	165.79	-42.16
30	40.51	23.39	23.39	-40.51	-5129.81	-2851.17	-24.34
60	46.77	0.00	40.51	-23.39	-2921.24	-5059.74	0.00
90	40.51	23.39	46.77	0.00	95.72	-5868.13	24.34
120	23.39	40.51	40.51	23.39	3112.68	-5059.74	42.16
150	0.00	46.77	23.39	40.51	5321.24	-2851.17	48.68
180	23.39	40.51	0.00	46.77	6129.63	165.79	42.16
210	40.51	23.39	-23.39	40.51	5321.24	3182.75	24.34
240	46.77	0.00	-40.51	23.39	3112.68	5391.31	0.00
270	40.51	23.39	-46.77	0.00	95.72	6199.71	-24.34
300	23.39	40.51	-40.51	-23.39	-2921.24	5391.31	-42.16
330	0.00	46.77	-23.39	-40.51	-5129.81	3182.75	-48.68

Clamp Ring Assembly - Elevation 129 - None C

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.07	0.00	0.00	-0.07	-9.22	0.00	0.00
30	0.07	0.00	0.04	-0.06	-7.98	-4.61	0.00
60	0.07	0.00	0.06	-0.04	-4.61	-7.98	0.00
90	0.07	0.00	0.07	0.00	0.00	-9.22	0.00
120	0.07	0.00	0.06	0.04	4.61	-7.98	0.00
150	0.07	0.00	0.04	0.06	7.98	-4.61	0.00
180	0.07	0.00	0.00	0.07	9.22	0.00	0.00
210	0.07	0.00	-0.04	0.06	7.98	4.61	0.00
240	0.07	0.00	-0.06	0.04	4.61	7.98	0.00
270	0.07	0.00	-0.07	0.00	0.00	9.22	0.00
300	0.07	0.00	-0.06	-0.04	-4.61	7.98	0.00
330	0.07	0.00	-0.04	-0.06	-7.98	4.61	0.00

Panel-72x12x9 - Elevation 126 - From Leg C

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	42.45	83.49	-4.98	-93.53	-11545.51	1041.78	-89.44
30	73.53	48.20	39.58	-78.51	-9652.99	-4572.49	-51.64
60	84.91	0.00	73.53	-42.45	-5109.84	-8850.50	0.00
90	73.53	48.20	87.78	4.98	866.61	-10645.98	51.64
120	42.45	83.49	78.51	51.08	6674.96	-9477.82	89.44
150	0.00	96.40	48.20	83.49	10758.88	-5659.03	103.28
180	42.45	83.49	4.98	93.53	12024.08	-212.86	89.44
210	73.53	48.20	-39.58	78.51	10131.56	5401.40	51.64
240	84.91	0.00	-73.53	42.45	5588.41	9679.41	0.00
270	73.53	48.20	-87.78	-4.98	-388.03	11474.89	-51.64
300	42.45	83.49	-78.51	-51.08	-6196.39	10306.73	-89.44
330	0.00	96.40	-48.20	-83.49	-10280.31	6487.95	-103.28

Panel-72x12x9 - Elevation 126 - From Leg B

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	42.45	83.49	4.98	-93.53	-11545.51	-1041.78	89.44
30	0.00	96.40	48.20	-83.49	-10280.31	-6487.95	103.28
60	42.45	83.49	78.51	-51.08	-6196.39	-10306.73	89.44
90	73.53	48.20	87.78	-4.98	-388.03	-11474.89	51.64
120	84.91	0.00	73.53	42.45	5588.41	-9679.41	0.00
150	73.53	48.20	39.58	78.51	10131.56	-5401.40	-51.64
180	42.45	83.49	-4.98	93.53	12024.08	212.86	-89.44
210	0.00	96.40	-48.20	83.49	10758.88	5659.03	-103.28
240	42.45	83.49	-78.51	51.08	6674.96	9477.82	-89.44
270	73.53	48.20	-87.78	4.98	866.61	10645.98	-51.64
300	84.91	0.00	-73.53	-42.45	-5109.84	8850.50	0.00
330	73.53	48.20	-39.58	-78.51	-9652.99	4572.49	51.64

Panel-72x12x9 - Elevation 126 - From Leg A

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	84.91	0.00	0.00	-84.91	-11176.82	0.00	0.00
30	73.53	48.20	48.20	-73.53	-9743.53	-6073.49	-51.64
60	42.45	83.49	83.49	-42.45	-5827.70	-10519.59	-89.44
90	0.00	96.40	96.40	0.00	-478.57	-12146.98	-103.28

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 126 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
120	42.45	83.49	83.49	42.45	4870.55	-10519.59	-89.44
150	73.53	48.20	48.20	73.53	8786.38	-6073.49	-51.64
180	84.91	0.00	0.00	84.91	10219.68	0.00	0.00
210	73.53	48.20	-48.20	73.53	8786.38	6073.49	51.64
240	42.45	83.49	-83.49	42.45	4870.55	10519.59	89.44
270	0.00	96.40	-96.40	0.00	-478.57	12146.98	103.28
300	42.45	83.49	-83.49	-42.45	-5827.70	10519.59	89.44
330	73.53	48.20	-48.20	-73.53	-9743.53	6073.49	51.64

RRUS-11 - Elevation 126 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	57.26	35.39	31.90	-59.28	-7202.81	-3558.56	-37.91
30	99.18	20.43	75.68	-67.28	-8211.80	-9074.98	-21.89
60	114.53	0.00	99.18	-57.26	-6949.18	-12036.33	0.00
90	99.18	20.43	96.11	-31.90	-3753.27	-11649.12	21.89
120	57.26	35.39	67.28	2.01	519.60	-8017.10	37.91
150	0.00	40.86	20.43	35.39	4724.51	-2113.46	43.77
180	57.26	35.39	-31.90	59.28	7734.75	4479.91	37.91
210	99.18	20.43	-75.68	67.28	8743.74	9996.33	21.89
240	114.53	0.00	-99.18	57.26	7481.12	12957.68	0.00
270	99.18	20.43	-96.11	31.90	4285.21	12570.47	-21.89
300	57.26	35.39	-67.28	-2.01	12.34	8938.44	-37.91
330	0.00	40.86	-20.43	-35.39	-4192.57	3034.81	-43.77

RRUS-11 - Elevation 126 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	57.26	35.39	-31.90	-59.28	-7202.81	3558.56	37.91
30	0.00	40.86	20.43	-35.39	-4192.57	-3034.81	43.77
60	57.26	35.39	67.28	-2.01	12.34	-8938.44	37.91
90	99.18	20.43	96.11	31.90	4285.21	-12570.47	21.89
120	114.53	0.00	99.18	57.26	7481.12	-12957.68	0.00
150	99.18	20.43	75.68	67.28	8743.74	-9996.33	-21.89
180	57.26	35.39	31.90	59.28	7734.75	-4479.91	-37.91
210	0.00	40.86	-20.43	35.39	4724.51	2113.46	-43.77
240	57.26	35.39	-67.28	2.01	519.60	8017.10	-37.91
270	99.18	20.43	-96.11	-31.90	-3753.27	11649.12	-21.89
300	114.53	0.00	-99.18	-57.26	-6949.18	12036.33	0.00
330	99.18	20.43	-75.68	-67.28	-8211.80	9074.98	21.89

RRUS-11 - Elevation 126 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	114.53	0.00	0.00	-114.53	-14962.24	0.00	0.00
30	99.18	20.43	20.43	-99.18	-13028.95	-2574.14	-21.89
60	57.26	35.39	35.39	-57.26	-7747.09	-4458.54	-37.91
90	0.00	40.86	40.86	0.00	-531.94	-5148.27	-43.77
120	57.26	35.39	35.39	57.26	6683.21	-4458.54	-37.91
150	99.18	20.43	20.43	99.18	11965.07	-2574.14	-21.89
180	114.53	0.00	0.00	114.53	13898.36	0.00	0.00

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 38 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 126 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
210	99.18	20.43	-20.43	99.18	11965.07	2574.14	21.89
240	57.26	35.39	-35.39	57.26	6683.21	4458.54	37.91
270	0.00	40.86	-40.86	0.00	-531.94	5148.27	43.77
300	57.26	35.39	-35.39	-57.26	-7747.09	4458.54	37.91
330	99.18	20.43	-20.43	-99.18	-13028.95	2574.14	21.89

Low-Profile Platform 14' - Elevation 126 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	567.64	0.00	0.00	-567.64	-71522.03	0.00	0.00
30	567.64	0.00	283.82	-491.59	-61939.90	-35761.02	0.00
60	567.64	0.00	491.59	-283.82	-35761.02	-61939.90	0.00
90	567.64	0.00	567.64	0.00	0.00	-71522.03	0.00
120	567.64	0.00	491.59	283.82	35761.02	-61939.90	0.00
150	567.64	0.00	283.82	491.59	61939.90	-35761.02	0.00
180	567.64	0.00	0.00	567.64	71522.03	0.00	0.00
210	567.64	0.00	-283.82	491.59	61939.90	35761.02	0.00
240	567.64	0.00	-491.59	283.82	35761.02	61939.90	0.00
270	567.64	0.00	-567.64	0.00	0.00	71522.03	0.00
300	567.64	0.00	-491.59	-283.82	-35761.02	61939.90	0.00
330	567.64	0.00	-283.82	-491.59	-61939.90	35761.02	0.00

Panel-72x12x9 - Elevation 116 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	41.62	81.76	-4.84	-91.62	-10367.62	1012.15	-95.94
30	72.09	47.21	38.82	-76.93	-8663.07	-4052.89	-55.39
60	83.24	0.00	72.09	-41.62	-4567.52	-7911.18	0.00
90	72.09	47.21	86.03	4.84	821.63	-9528.88	55.39
120	41.62	81.76	76.93	50.00	6060.36	-8472.55	95.94
150	0.00	94.41	47.21	81.76	9744.96	-5025.22	110.78
180	41.62	81.76	4.84	91.62	10888.14	-110.59	95.94
210	72.09	47.21	-38.82	76.93	9183.59	4954.45	55.39
240	83.24	0.00	-72.09	41.62	5088.04	8812.74	0.00
270	72.09	47.21	-86.03	-4.84	-301.11	10430.45	-55.39
300	41.62	81.76	-76.93	-50.00	-5539.85	9374.11	-95.94
330	0.00	94.41	-47.21	-81.76	-9224.45	5926.78	-110.78

Panel-72x12x9 - Elevation 116 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	41.62	81.76	4.84	-91.62	-10367.62	-1012.15	95.94
30	0.00	94.41	47.21	-81.76	-9224.45	-5926.78	110.78
60	41.62	81.76	76.93	-50.00	-5539.85	-9374.11	95.94
90	72.09	47.21	86.03	-4.84	-301.11	-10430.45	55.39
120	83.24	0.00	72.09	41.62	5088.04	-8812.74	0.00
150	72.09	47.21	38.82	76.93	9183.59	-4954.45	-55.39
180	41.62	81.76	-4.84	91.62	10888.14	110.59	-95.94
210	0.00	94.41	-47.21	81.76	9744.96	5025.22	-110.78
240	41.62	81.76	-76.93	50.00	6060.36	8472.55	-95.94
270	72.09	47.21	-86.03	4.84	821.63	9528.88	-55.39

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 39 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 116 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
300	83.24	0.00	-72.09	-41.62	-4567.52	7911.18	0.00
330	72.09	47.21	-38.82	-76.93	-8663.07	4052.89	55.39

Panel-72x12x9 - Elevation 116 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	83.24	0.00	0.00	-83.24	-10176.07	0.00	0.00
30	72.09	47.21	47.21	-72.09	-8882.47	-5476.00	-55.39
60	41.62	81.76	81.76	-41.62	-5348.30	-9484.70	-95.94
90	0.00	94.41	94.41	0.00	-520.52	-10951.99	-110.78
120	41.62	81.76	81.76	41.62	4307.26	-9484.70	-95.94
150	72.09	47.21	47.21	72.09	7841.44	-5476.00	-55.39
180	83.24	0.00	0.00	83.24	9135.04	0.00	0.00
210	72.09	47.21	-47.21	72.09	7841.44	5476.00	55.39
240	41.62	81.76	-81.76	41.62	4307.26	9484.70	95.94
270	0.00	94.41	-94.41	0.00	-520.52	10951.99	110.78
300	41.62	81.76	-81.76	-41.62	-5348.30	9484.70	95.94
330	72.09	47.21	-47.21	-72.09	-8882.47	5476.00	55.39

RRUS-11 - Elevation 116 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	56.14	34.64	31.30	-58.07	-6446.35	-3128.65	-40.65
30	97.24	20.00	74.21	-65.94	-7359.11	-8106.33	-23.47
60	112.28	0.00	97.24	-56.14	-6222.37	-10777.47	0.00
90	97.24	20.00	94.21	-31.30	-3340.73	-10426.34	23.47
120	56.14	34.64	65.94	1.93	513.69	-7147.03	40.65
150	0.00	40.00	20.00	34.64	4308.09	-1818.22	46.94
180	56.14	34.64	-31.30	58.07	7025.77	4132.24	40.65
210	97.24	20.00	-74.21	65.94	7938.53	9109.92	23.47
240	112.28	0.00	-97.24	56.14	6801.80	11781.06	0.00
270	97.24	20.00	-94.21	31.30	3920.15	11429.93	-23.47
300	56.14	34.64	-65.94	-1.93	65.74	8150.62	-40.65
330	0.00	40.00	-20.00	-34.64	-3728.67	2821.81	-46.94

RRUS-11 - Elevation 116 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	56.14	34.64	-31.30	-58.07	-6446.35	3128.65	40.65
30	0.00	40.00	20.00	-34.64	-3728.67	-2821.81	46.94
60	56.14	34.64	65.94	-1.93	65.74	-8150.62	40.65
90	97.24	20.00	94.21	31.30	3920.15	-11429.93	23.47
120	112.28	0.00	97.24	56.14	6801.80	-11781.06	0.00
150	97.24	20.00	74.21	65.94	7938.53	-9109.92	-23.47
180	56.14	34.64	31.30	58.07	7025.77	-4132.24	-40.65
210	0.00	40.00	-20.00	34.64	4308.09	1818.22	-46.94
240	56.14	34.64	-65.94	1.93	513.69	7147.03	-40.65
270	97.24	20.00	-94.21	-31.30	-3340.73	10426.34	-23.47
300	112.28	0.00	-97.24	-56.14	-6222.37	10777.47	0.00
330	97.24	20.00	-74.21	-65.94	-7359.11	8106.33	23.47

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 40 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

<i>RRUS-11 - Elevation 116 - From Leg A</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	112.28	0.00	0.00	-112.28	-13603.60	0.00	0.00
30	97.24	20.00	20.00	-97.24	-11858.69	-2320.01	-23.47
60	56.14	34.64	34.64	-56.14	-7091.51	-4018.38	-40.65
90	0.00	40.00	40.00	0.00	-579.42	-4640.03	-46.94
120	56.14	34.64	34.64	56.14	5932.66	-4018.38	-40.65
150	97.24	20.00	20.00	97.24	10699.84	-2320.01	-23.47
180	112.28	0.00	0.00	112.28	12444.75	0.00	0.00
210	97.24	20.00	-20.00	97.24	10699.84	2320.01	23.47
240	56.14	34.64	-34.64	56.14	5932.66	4018.38	40.65
270	0.00	40.00	-40.00	0.00	-579.42	4640.03	46.94
300	56.14	34.64	-34.64	-56.14	-7091.51	4018.38	40.65
330	97.24	20.00	-20.00	-97.24	-11858.69	2320.01	23.47

<i>Low-Profile Platform 14' - Elevation 116 - None C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	554.76	0.00	0.00	-554.76	-64351.61	0.00	0.00
30	554.76	0.00	277.38	-480.43	-55730.13	-32175.81	0.00
60	554.76	0.00	480.43	-277.38	-32175.81	-55730.13	0.00
90	554.76	0.00	554.76	0.00	0.00	-64351.61	0.00
120	554.76	0.00	480.43	277.38	32175.81	-55730.13	0.00
150	554.76	0.00	277.38	480.43	55730.13	-32175.81	0.00
180	554.76	0.00	0.00	554.76	64351.61	0.00	0.00
210	554.76	0.00	-277.38	480.43	55730.13	32175.81	0.00
240	554.76	0.00	-480.43	277.38	32175.81	55730.13	0.00
270	554.76	0.00	-554.76	0.00	0.00	64351.61	0.00
300	554.76	0.00	-480.43	-277.38	-32175.81	55730.13	0.00
330	554.76	0.00	-277.38	-480.43	-55730.13	32175.81	0.00

<i>10' Whip - Elevation 113 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	20.95	36.29	0.00	-41.90	-4692.03	74.69	-45.55
30	36.29	20.95	20.95	-36.29	-4057.64	-2292.89	-26.30
60	41.90	0.00	36.29	-20.95	-2324.45	-4026.07	0.00
90	36.29	20.95	41.90	0.00	43.12	-4660.46	26.30
120	20.95	36.29	36.29	20.95	2410.69	-4026.07	45.55
150	0.00	41.90	20.95	36.29	4143.88	-2292.89	52.59
180	20.95	36.29	0.00	41.90	4778.26	74.69	45.55
210	36.29	20.95	-20.95	36.29	4143.88	2442.26	26.30
240	41.90	0.00	-36.29	20.95	2410.69	4175.44	0.00
270	36.29	20.95	-41.90	0.00	43.12	4809.83	-26.30
300	20.95	36.29	-36.29	-20.95	-2324.45	4175.44	-45.55
330	0.00	41.90	-20.95	-36.29	-4057.64	2442.26	-52.59

<i>Clamp Ring Assembly - Elevation 108 - None C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.07	0.00	0.00	-0.07	-7.43	0.00	0.00
30	0.07	0.00	0.03	-0.06	-6.44	-3.72	0.00

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Clamp Ring Assembly - Elevation 108 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	0.07	0.00	0.06	-0.03	-3.72	-6.44	0.00
90	0.07	0.00	0.07	0.00	0.00	-7.43	0.00
120	0.07	0.00	0.06	0.03	3.72	-6.44	0.00
150	0.07	0.00	0.03	0.06	6.44	-3.72	0.00
180	0.07	0.00	0.00	0.07	7.43	0.00	0.00
210	0.07	0.00	-0.03	0.06	6.44	3.72	0.00
240	0.07	0.00	-0.06	0.03	3.72	6.44	0.00
270	0.07	0.00	-0.07	0.00	0.00	7.43	0.00
300	0.07	0.00	-0.06	-0.03	-3.72	6.44	0.00
330	0.07	0.00	-0.03	-0.06	-6.44	3.72	0.00

10' Whip - Elevation 113 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	20.95	36.29	0.00	-41.90	-4692.03	-74.69	45.55
30	0.00	41.90	20.95	-36.29	-4057.64	-2442.26	52.59
60	20.95	36.29	36.29	-20.95	-2324.45	-4175.44	45.55
90	36.29	20.95	41.90	0.00	43.12	-4809.83	26.30
120	41.90	0.00	36.29	20.95	2410.69	-4175.44	0.00
150	36.29	20.95	20.95	36.29	4143.88	-2442.26	-26.30
180	20.95	36.29	0.00	41.90	4778.26	-74.69	-45.55
210	0.00	41.90	-20.95	36.29	4143.88	2292.89	-52.59
240	20.95	36.29	-36.29	20.95	2410.69	4026.07	-45.55
270	36.29	20.95	-41.90	0.00	43.12	4660.46	-26.30
300	41.90	0.00	-36.29	-20.95	-2324.45	4026.07	0.00
330	36.29	20.95	-20.95	-36.29	-4057.64	2292.89	26.30

Clamp Ring Assembly - Elevation 108 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.07	0.00	0.00	-0.07	-7.43	0.00	0.00
30	0.07	0.00	0.03	-0.06	-6.44	-3.72	0.00
60	0.07	0.00	0.06	-0.03	-3.72	-6.44	0.00
90	0.07	0.00	0.07	0.00	0.00	-7.43	0.00
120	0.07	0.00	0.06	0.03	3.72	-6.44	0.00
150	0.07	0.00	0.03	0.06	6.44	-3.72	0.00
180	0.07	0.00	0.00	0.07	7.43	0.00	0.00
210	0.07	0.00	-0.03	0.06	6.44	3.72	0.00
240	0.07	0.00	-0.06	0.03	3.72	6.44	0.00
270	0.07	0.00	-0.07	0.00	0.00	7.43	0.00
300	0.07	0.00	-0.06	-0.03	-3.72	6.44	0.00
330	0.07	0.00	-0.03	-0.06	-6.44	3.72	0.00

AIR-21 - Elevation 106 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	128.33	0.00	0.00	-128.33	-14523.95	0.00	0.00
30	111.14	70.01	70.01	-111.14	-12701.46	-7420.60	-89.29
60	64.17	121.25	121.25	-64.17	-7722.31	-12852.85	-154.65
90	0.00	140.01	140.01	0.00	-920.67	-14841.19	-178.58
120	64.17	121.25	121.25	64.17	5880.97	-12852.85	-154.65

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AIR-21 - Elevation 106 - From Leg A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
150	111.14	70.01	70.01	111.14	10860.12	-7420.60	-89.29
180	128.33	0.00	0.00	128.33	12682.61	0.00	0.00
210	111.14	70.01	-70.01	111.14	10860.12	7420.60	89.29
240	64.17	121.25	-121.25	64.17	5880.97	12852.85	154.65
270	0.00	140.01	-140.01	0.00	-920.67	14841.19	178.58
300	64.17	121.25	-121.25	-64.17	-7722.31	12852.85	154.65
330	111.14	70.01	-70.01	-111.14	-12701.46	7420.60	89.29

AIR-21 - Elevation 106 - From Leg B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	64.17	121.25	5.06	-137.09	-14071.38	-1333.36	154.65
30	0.00	140.01	70.01	-121.25	-12392.52	-8217.92	178.58
60	64.17	121.25	116.20	-72.93	-7269.74	-13114.14	154.65
90	111.14	70.01	131.25	-5.06	-75.70	-14710.08	89.29
120	128.33	0.00	111.14	64.17	7261.98	-12578.11	0.00
150	111.14	70.01	61.25	116.20	12777.15	-7289.49	-89.29
180	64.17	121.25	-5.06	137.09	14992.05	-261.29	-154.65
210	0.00	140.01	-70.01	121.25	13313.19	6623.27	-178.58
240	64.17	121.25	-116.20	72.93	8190.41	11519.49	-154.65
270	111.14	70.01	-131.25	5.06	996.37	13115.43	-89.29
300	128.33	0.00	-111.14	-64.17	-6341.30	10983.46	0.00
330	111.14	70.01	-61.25	-116.20	-11856.48	5694.84	89.29

AIR-21 - Elevation 106 - From Leg C							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	64.17	121.25	-5.06	-137.09	-14071.38	1333.36	-154.65
30	111.14	70.01	61.25	-116.20	-11856.48	-5694.84	-89.29
60	128.33	0.00	111.14	-64.17	-6341.30	-10983.46	0.00
90	111.14	70.01	131.25	5.06	996.37	-13115.43	89.29
120	64.17	121.25	116.20	72.93	8190.41	-11519.49	154.65
150	0.00	140.01	70.01	121.25	13313.19	-6623.27	178.58
180	64.17	121.25	5.06	137.09	14992.05	261.29	154.65
210	111.14	70.01	-61.25	116.20	12777.15	7289.49	89.29
240	128.33	0.00	-111.14	64.17	7261.98	12578.11	0.00
270	111.14	70.01	-131.25	-5.06	-75.70	14710.08	-89.29
300	64.17	121.25	-116.20	-72.93	-7269.74	13114.14	-154.65
330	0.00	140.01	-70.01	-121.25	-12392.52	8217.92	-178.58

TMA - 10"x6"x3" - Elevation 106 - From Leg A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	7.53	0.00	0.00	-7.53	-811.07	0.00	0.00
30	6.52	2.50	2.50	-6.52	-704.14	-265.21	-3.19
60	3.76	4.33	4.33	-3.76	-412.00	-459.36	-5.53
90	0.00	5.00	5.00	0.00	-12.93	-530.42	-6.38
120	3.76	4.33	4.33	3.76	386.14	-459.36	-5.53
150	6.52	2.50	2.50	6.52	678.28	-265.21	-3.19
180	7.53	0.00	0.00	7.53	785.22	0.00	0.00
210	6.52	2.50	-2.50	6.52	678.28	265.21	3.19

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

TMA - 10"x6"x3" - Elevation 106 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
240	3.76	4.33	-4.33	3.76	386.14	459.36	5.53
270	0.00	5.00	-5.00	0.00	-12.93	530.42	6.38
300	3.76	4.33	-4.33	-3.76	-412.00	459.36	5.53
330	6.52	2.50	-2.50	-6.52	-704.14	265.21	3.19

TMA - 10"x6"x3" - Elevation 106 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	3.76	4.33	-1.09	-5.64	-590.89	104.73	5.53
30	0.00	5.00	2.50	-4.33	-452.90	-276.41	6.38
60	3.76	4.33	5.43	-1.87	-191.82	-586.48	5.53
90	6.52	2.50	6.90	1.09	122.39	-742.41	3.19
120	7.53	0.00	6.52	3.76	405.54	-702.41	0.00
150	6.52	2.50	4.40	5.43	581.75	-477.20	-3.19
180	3.76	4.33	1.09	5.64	603.82	-127.12	-5.53
210	0.00	5.00	-2.50	4.33	465.82	254.02	-6.38
240	3.76	4.33	-5.43	1.87	204.74	564.09	-5.53
270	6.52	2.50	-6.90	-1.09	-109.46	720.02	-3.19
300	7.53	0.00	-6.52	-3.76	-392.61	680.02	0.00
330	6.52	2.50	-4.40	-5.43	-568.82	454.81	3.19

TMA - 10"x6"x3" - Elevation 106 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	3.76	4.33	1.09	-5.64	-590.89	-104.73	-5.53
30	6.52	2.50	4.40	-5.43	-568.82	-454.81	-3.19
60	7.53	0.00	6.52	-3.76	-392.61	-680.02	0.00
90	6.52	2.50	6.90	-1.09	-109.46	-720.02	3.19
120	3.76	4.33	5.43	1.87	204.74	-564.09	5.53
150	0.00	5.00	2.50	4.33	465.82	-254.02	6.38
180	3.76	4.33	-1.09	5.64	603.82	127.12	5.53
210	6.52	2.50	-4.40	5.43	581.75	477.20	3.19
240	7.53	0.00	-6.52	3.76	405.54	702.41	0.00
270	6.52	2.50	-6.90	1.09	122.39	742.41	-3.19
300	3.76	4.33	-5.43	-1.87	-191.82	586.48	-5.53
330	0.00	5.00	-2.50	-4.33	-452.90	276.41	-6.38

Clamp Ring Assembly - Elevation 106 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.07	0.00	0.00	-0.07	-7.27	0.00	0.00
30	0.07	0.00	0.03	-0.06	-6.29	-3.63	0.00
60	0.07	0.00	0.06	-0.03	-3.63	-6.29	0.00
90	0.07	0.00	0.07	0.00	0.00	-7.27	0.00
120	0.07	0.00	0.06	0.03	3.63	-6.29	0.00
150	0.07	0.00	0.03	0.06	6.29	-3.63	0.00
180	0.07	0.00	0.00	0.07	7.27	0.00	0.00
210	0.07	0.00	-0.03	0.06	6.29	3.63	0.00
240	0.07	0.00	-0.06	0.03	3.63	6.29	0.00
270	0.07	0.00	-0.07	0.00	0.00	7.27	0.00
300	0.07	0.00	-0.06	-0.03	-3.63	6.29	0.00

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Clamp Ring Assembly - Elevation 106 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	0.07	0.00	-0.03	-0.06	-6.29	3.63	0.00

RRUS-11 - Elevation 98 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	35.94	22.12	20.07	-37.13	-3417.35	-1584.30	-30.01
30	62.26	12.77	47.53	-42.19	-3913.37	-4275.50	-17.33
60	71.89	0.00	62.26	-35.94	-3301.62	-5718.57	0.00
90	62.26	12.77	60.30	-20.07	-1746.01	-5526.83	17.33
120	35.94	22.12	42.19	1.18	336.63	-3751.66	30.01
150	0.00	25.54	12.77	22.12	2388.26	-868.72	34.66
180	35.94	22.12	-20.07	37.13	3859.15	2349.52	30.01
210	62.26	12.77	-47.53	42.19	4355.17	5040.72	17.33
240	71.89	0.00	-62.26	35.94	3743.42	6483.79	0.00
270	62.26	12.77	-60.30	20.07	2187.81	6292.05	-17.33
300	35.94	22.12	-42.19	-1.18	105.17	4516.88	-30.01
330	0.00	25.54	-12.77	-22.12	-1946.46	1633.94	-34.66

RRUS-11 - Elevation 98 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	35.94	22.12	-20.07	-37.13	-3417.35	1584.30	30.01
30	0.00	25.54	12.77	-22.12	-1946.46	-1633.94	34.66
60	35.94	22.12	42.19	-1.18	105.17	-4516.88	30.01
90	62.26	12.77	60.30	20.07	2187.81	-6292.05	17.33
120	71.89	0.00	62.26	35.94	3743.42	-6483.79	0.00
150	62.26	12.77	47.53	42.19	4355.17	-5040.72	-17.33
180	35.94	22.12	20.07	37.13	3859.15	-2349.52	-30.01
210	0.00	25.54	-12.77	22.12	2388.26	868.72	-34.66
240	35.94	22.12	-42.19	1.18	336.63	3751.66	-30.01
270	62.26	12.77	-60.30	-20.07	-1746.01	5526.83	-17.33
300	71.89	0.00	-62.26	-35.94	-3301.62	5718.57	0.00
330	62.26	12.77	-47.53	-42.19	-3913.37	4275.50	17.33

RRUS-11 - Elevation 98 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	71.89	0.00	0.00	-71.89	-7486.84	0.00	0.00
30	62.26	12.77	12.77	-62.26	-6542.98	-1251.33	-17.33
60	35.94	22.12	22.12	-35.94	-3964.32	-2167.36	-30.01
90	0.00	25.54	25.54	0.00	-441.80	-2502.66	-34.66
120	35.94	22.12	22.12	35.94	3080.72	-2167.36	-30.01
150	62.26	12.77	12.77	62.26	5659.38	-1251.33	-17.33
180	71.89	0.00	0.00	71.89	6603.24	0.00	0.00
210	62.26	12.77	-12.77	62.26	5659.38	1251.33	17.33
240	35.94	22.12	-22.12	35.94	3080.72	2167.36	30.01
270	0.00	25.54	-25.54	0.00	-441.80	2502.66	34.66
300	35.94	22.12	-22.12	-35.94	-3964.32	2167.36	30.01
330	62.26	12.77	-12.77	-62.26	-6542.98	1251.33	17.33

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RR-RM1560 - 6 Sector Ring Mount - Elevation 98 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	64.74	0.00	0.00	-64.74	-6344.65	0.00	0.00
30	64.74	0.00	32.37	-56.07	-5494.63	-3172.33	0.00
60	64.74	0.00	56.07	-32.37	-3172.33	-5494.63	0.00
90	64.74	0.00	64.74	0.00	0.00	-6344.65	0.00
120	64.74	0.00	56.07	32.37	3172.33	-5494.63	0.00
150	64.74	0.00	32.37	56.07	5494.63	-3172.33	0.00
180	64.74	0.00	0.00	64.74	6344.65	0.00	0.00
210	64.74	0.00	-32.37	56.07	5494.63	3172.33	0.00
240	64.74	0.00	-56.07	32.37	3172.33	5494.63	0.00
270	64.74	0.00	-64.74	0.00	0.00	6344.65	0.00
300	64.74	0.00	-56.07	-32.37	-3172.33	5494.63	0.00
330	64.74	0.00	-32.37	-56.07	-5494.63	3172.33	0.00

Panel-72x12x9 - Elevation 96 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	39.77	77.96	-4.53	-87.40	-8089.56	956.14	-107.39
30	68.89	45.01	37.15	-73.42	-6747.82	-3045.97	-62.00
60	79.54	0.00	68.89	-39.77	-3517.43	-6092.37	0.00
90	68.89	45.01	82.16	4.53	736.02	-7366.77	62.00
120	39.77	77.96	73.42	47.63	4872.82	-6527.69	107.39
150	0.00	90.02	45.01	77.96	7784.53	-3799.98	124.00
180	39.77	77.96	4.53	87.40	8690.95	85.49	107.39
210	68.89	45.01	-37.15	73.42	7349.20	4087.61	62.00
240	79.54	0.00	-68.89	39.77	4118.82	7134.00	0.00
270	68.89	45.01	-82.16	-4.53	-134.63	8408.40	-62.00
300	39.77	77.96	-73.42	-47.63	-4271.43	7569.33	-107.39
330	0.00	90.02	-45.01	-77.96	-7183.14	4841.61	-124.00

Panel-72x12x9 - Elevation 96 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	39.77	77.96	4.53	-87.40	-8089.56	-956.14	107.39
30	0.00	90.02	45.01	-77.96	-7183.14	-4841.61	124.00
60	39.77	77.96	73.42	-47.63	-4271.43	-7569.33	107.39
90	68.89	45.01	82.16	-4.53	-134.63	-8408.40	62.00
120	79.54	0.00	68.89	39.77	4118.82	-7134.00	0.00
150	68.89	45.01	37.15	73.42	7349.20	-4087.61	-62.00
180	39.77	77.96	-4.53	87.40	8690.95	-85.49	-107.39
210	0.00	90.02	-45.01	77.96	7784.53	3799.98	-124.00
240	39.77	77.96	-73.42	47.63	4872.82	6527.69	-107.39
270	68.89	45.01	-82.16	4.53	736.02	7366.77	-62.00
300	79.54	0.00	-68.89	-39.77	-3517.43	6092.37	0.00
330	68.89	45.01	-37.15	-73.42	-6747.82	3045.97	62.00

Panel-72x12x9 - Elevation 96 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	79.54	0.00	0.00	-79.54	-8237.64	0.00	0.00
30	68.89	45.01	45.01	-68.89	-7214.57	-4320.79	-62.00

Panel-72x12x9 - Elevation 96 - From Leg A

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
60	39.77	77.96	77.96	-39.77	-4419.51	-7483.83	-107.39
90	0.00	90.02	90.02	0.00	-601.39	-8641.59	-124.00
120	39.77	77.96	77.96	39.77	3216.74	-7483.83	-107.39
150	68.89	45.01	45.01	68.89	6011.80	-4320.79	-62.00
180	79.54	0.00	0.00	79.54	7034.86	0.00	0.00
210	68.89	45.01	-45.01	68.89	6011.80	4320.79	62.00
240	39.77	77.96	-77.96	39.77	3216.74	7483.83	107.39
270	0.00	90.02	-90.02	0.00	-601.39	8641.59	124.00
300	39.77	77.96	-77.96	-39.77	-4419.51	7483.83	107.39
330	68.89	45.01	-45.01	-68.89	-7214.57	4320.79	62.00

RRUS-11 - Elevation 96 - From Leg C

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	17.88	11.00	9.99	-18.47	-1660.95	-764.91	-15.15
30	30.98	6.35	23.65	-20.99	-1902.84	-2076.48	-8.75
60	35.77	0.00	30.98	-17.88	-1604.86	-2779.70	0.00
90	30.98	6.35	30.00	-9.99	-846.87	-2686.14	8.75
120	17.88	11.00	20.99	0.58	168.04	-1820.88	15.15
150	0.00	12.70	6.35	11.00	1167.93	-415.75	17.50
180	17.88	11.00	-9.99	18.47	1884.86	1152.74	15.15
210	30.98	6.35	-23.65	20.99	2126.75	2464.32	8.75
240	35.77	0.00	-30.98	17.88	1828.78	3167.54	0.00
270	30.98	6.35	-30.00	9.99	1070.79	3073.98	-8.75
300	17.88	11.00	-20.99	-0.58	55.87	2208.71	-15.15
330	0.00	12.70	-6.35	-11.00	-944.01	803.58	-17.50

RRUS-11 - Elevation 96 - From Leg B

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	17.88	11.00	-9.99	-18.47	-1660.95	764.91	15.15
30	0.00	12.70	6.35	-11.00	-944.01	-803.58	17.50
60	17.88	11.00	20.99	-0.58	55.87	-2208.71	15.15
90	30.98	6.35	30.00	9.99	1070.79	-3073.98	8.75
120	35.77	0.00	30.98	17.88	1828.78	-3167.54	0.00
150	30.98	6.35	23.65	20.99	2126.75	-2464.32	-8.75
180	17.88	11.00	9.99	18.47	1884.86	-1152.74	-15.15
210	0.00	12.70	-6.35	11.00	1167.93	415.75	-17.50
240	17.88	11.00	-20.99	0.58	168.04	1820.88	-15.15
270	30.98	6.35	-30.00	-9.99	-846.87	2686.14	-8.75
300	35.77	0.00	-30.98	-17.88	-1604.86	2779.70	0.00
330	30.98	6.35	-23.65	-20.99	-1902.84	2076.48	8.75

RRUS-11 - Elevation 96 - From Leg A

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	35.77	0.00	0.00	-35.77	-3657.56	0.00	0.00
30	30.98	6.35	6.35	-30.98	-3197.54	-609.66	-8.75
60	17.88	11.00	11.00	-17.88	-1940.74	-1055.97	-15.15
90	0.00	12.70	12.70	0.00	-223.92	-1219.33	-17.50
120	17.88	11.00	11.00	17.88	1492.90	-1055.97	-15.15

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 96 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
150	30.98	6.35	6.35	30.98	2749.70	-609.66	-8.75
180	35.77	0.00	0.00	35.77	3209.72	0.00	0.00
210	30.98	6.35	-6.35	30.98	2749.70	609.66	8.75
240	17.88	11.00	-11.00	17.88	1492.90	1055.97	15.15
270	0.00	12.70	-12.70	0.00	-223.92	1219.33	17.50
300	17.88	11.00	-11.00	-17.88	-1940.74	1055.97	15.15
330	30.98	6.35	-6.35	-30.98	-3197.54	609.66	8.75

Clamp Ring Assembly - Elevation 96 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.08	0.00	0.00	-0.08	-8.06	0.00	0.00
30	0.08	0.00	0.04	-0.07	-6.98	-4.03	0.00
60	0.08	0.00	0.07	-0.04	-4.03	-6.98	0.00
90	0.08	0.00	0.08	0.00	0.00	-8.06	0.00
120	0.08	0.00	0.07	0.04	4.03	-6.98	0.00
150	0.08	0.00	0.04	0.07	6.98	-4.03	0.00
180	0.08	0.00	0.00	0.08	8.06	0.00	0.00
210	0.08	0.00	-0.04	0.07	6.98	4.03	0.00
240	0.08	0.00	-0.07	0.04	4.03	6.98	0.00
270	0.08	0.00	-0.08	0.00	0.00	8.06	0.00
300	0.08	0.00	-0.07	-0.04	-4.03	6.98	0.00
330	0.08	0.00	-0.04	-0.07	-6.98	4.03	0.00

RRUS-11 - Elevation 88 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	35.03	21.51	19.58	-36.15	-2945.10	-1314.56	-31.39
30	60.67	12.42	46.33	-41.09	-3380.45	-3668.98	-18.13
60	70.06	0.00	60.67	-35.03	-2846.82	-4930.84	0.00
90	60.67	12.42	58.76	-19.58	-1487.20	-4762.04	18.13
120	35.03	21.51	41.09	1.12	334.10	-3207.81	31.39
150	0.00	24.84	12.42	21.51	2129.08	-684.59	36.25
180	35.03	21.51	-19.58	36.15	3416.76	2131.51	31.39
210	60.67	12.42	-46.33	41.09	3852.12	4485.93	18.13
240	70.06	0.00	-60.67	35.03	3318.49	5747.79	0.00
270	60.67	12.42	-58.76	19.58	1958.87	5578.99	-18.13
300	35.03	21.51	-41.09	-1.12	137.56	4024.76	-31.39
330	0.00	24.84	-12.42	-21.51	-1657.41	1501.54	-36.25

RRUS-11 - Elevation 88 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	35.03	21.51	-19.58	-36.15	-2945.10	1314.56	31.39
30	0.00	24.84	12.42	-21.51	-1657.41	-1501.54	36.25
60	35.03	21.51	41.09	-1.12	137.56	-4024.76	31.39
90	60.67	12.42	58.76	19.58	1958.87	-5578.99	18.13
120	70.06	0.00	60.67	35.03	3318.49	-5747.79	0.00
150	60.67	12.42	46.33	41.09	3852.12	-4485.93	-18.13
180	35.03	21.51	19.58	36.15	3416.76	-2131.51	-31.39
210	0.00	24.84	-12.42	21.51	2129.08	684.59	-36.25

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

RRUS-11 - Elevation 88 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
240	35.03	21.51	-41.09	1.12	334.10	3207.81	-31.39
270	60.67	12.42	-58.76	-19.58	-1487.20	4762.04	-18.13
300	70.06	0.00	-60.67	-35.03	-2846.82	4930.84	0.00
330	60.67	12.42	-46.33	-41.09	-3380.45	3668.98	18.13

RRUS-11 - Elevation 88 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	70.06	0.00	0.00	-70.06	-6636.98	0.00	0.00
30	60.67	12.42	12.42	-60.67	-5810.98	-1093.07	-18.13
60	35.03	21.51	21.51	-35.03	-3554.32	-1893.25	-31.39
90	0.00	24.84	24.84	0.00	-471.67	-2186.13	-36.25
120	35.03	21.51	21.51	35.03	2610.99	-1893.25	-31.39
150	60.67	12.42	12.42	60.67	4867.65	-1093.07	-18.13
180	70.06	0.00	0.00	70.06	5693.65	0.00	0.00
210	60.67	12.42	-12.42	60.67	4867.65	1093.07	18.13
240	35.03	21.51	-21.51	35.03	2610.99	1893.25	31.39
270	0.00	24.84	-24.84	0.00	-471.67	2186.13	36.25
300	35.03	21.51	-21.51	-35.03	-3554.32	1893.25	31.39
330	60.67	12.42	-12.42	-60.67	-5810.98	1093.07	18.13

RR-RM1560 - 6 Sector Ring Mount - Elevation 88 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	62.92	0.00	0.00	-62.92	-5537.14	0.00	0.00
30	62.92	0.00	31.46	-54.49	-4795.31	-2768.57	0.00
60	62.92	0.00	54.49	-31.46	-2768.57	-4795.31	0.00
90	62.92	0.00	62.92	0.00	0.00	-5537.14	0.00
120	62.92	0.00	54.49	31.46	2768.57	-4795.31	0.00
150	62.92	0.00	31.46	54.49	4795.31	-2768.57	0.00
180	62.92	0.00	0.00	62.92	5537.14	0.00	0.00
210	62.92	0.00	-31.46	54.49	4795.31	2768.57	0.00
240	62.92	0.00	-54.49	31.46	2768.57	4795.31	0.00
270	62.92	0.00	-62.92	0.00	0.00	5537.14	0.00
300	62.92	0.00	-54.49	-31.46	-2768.57	4795.31	0.00
330	62.92	0.00	-31.46	-54.49	-4795.31	2768.57	0.00

Panel-72x12x9 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	38.74	75.83	-4.37	-85.04	-6993.28	929.72	-112.20
30	67.10	43.78	36.22	-71.46	-5825.75	-2560.44	-64.78
60	77.48	0.00	67.10	-38.74	-3011.47	-5216.02	0.00
90	67.10	43.78	80.00	4.37	695.47	-6325.46	64.78
120	38.74	75.83	71.46	46.30	4301.80	-5591.50	112.20
150	0.00	87.56	43.78	75.83	6841.21	-3210.78	129.55
180	38.74	75.83	4.37	85.04	7633.27	178.77	112.20
210	67.10	43.78	-36.22	71.46	6465.74	3668.93	64.78
240	77.48	0.00	-67.10	38.74	3651.46	6324.51	0.00
270	67.10	43.78	-80.00	-4.37	-55.48	7433.95	-64.78
300	38.74	75.83	-71.46	-46.30	-3661.82	6699.99	-112.20

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Panel-72x12x9 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	0.00	87.56	-43.78	-75.83	-6201.23	4319.27	-129.55

Panel-72x12x9 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	38.74	75.83	4.37	-85.04	-6993.28	-929.72	112.20
30	0.00	87.56	43.78	-75.83	-6201.23	-4319.27	129.55
60	38.74	75.83	71.46	-46.30	-3661.82	-6699.99	112.20
90	67.10	43.78	80.00	-4.37	-55.48	-7433.95	64.78
120	77.48	0.00	67.10	38.74	3651.46	-6324.51	0.00
150	67.10	43.78	36.22	71.46	6465.74	-3668.93	-64.78
180	38.74	75.83	-4.37	85.04	7633.27	-178.77	-112.20
210	0.00	87.56	-43.78	75.83	6841.21	3210.78	-129.55
240	38.74	75.83	-71.46	46.30	4301.80	5591.50	-112.20
270	67.10	43.78	-80.00	4.37	695.47	6325.46	-64.78
300	77.48	0.00	-67.10	-38.74	-3011.47	5216.02	0.00
330	67.10	43.78	-36.22	-71.46	-5825.75	2560.44	64.78

Panel-72x12x9 - Elevation 86 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	77.48	0.00	0.00	-77.48	-7302.91	0.00	0.00
30	67.10	43.78	43.78	-67.10	-6410.25	-3765.03	-64.78
60	38.74	75.83	75.83	-38.74	-3971.45	-6521.22	-112.20
90	0.00	87.56	87.56	0.00	-639.99	-7530.06	-129.55
120	38.74	75.83	75.83	38.74	2691.48	-6521.22	-112.20
150	67.10	43.78	43.78	67.10	5130.28	-3765.03	-64.78
180	77.48	0.00	0.00	77.48	6022.94	0.00	0.00
210	67.10	43.78	-43.78	67.10	5130.28	3765.03	64.78
240	38.74	75.83	-75.83	38.74	2691.48	6521.22	112.20
270	0.00	87.56	-87.56	0.00	-639.99	7530.06	129.55
300	38.74	75.83	-75.83	-38.74	-3971.45	6521.22	112.20
330	67.10	43.78	-43.78	-67.10	-6410.25	3765.03	64.78

RRUS-11 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	17.42	10.69	9.74	-17.97	-1426.10	-630.72	-15.82
30	30.17	6.17	23.04	-20.43	-1637.79	-1774.79	-9.14
60	34.84	0.00	30.17	-17.42	-1378.65	-2387.90	0.00
90	30.17	6.17	29.22	-9.74	-718.12	-2305.77	9.14
120	17.42	10.69	20.43	0.55	166.83	-1550.40	15.82
150	0.00	12.35	6.17	10.69	1039.06	-324.19	18.27
180	17.42	10.69	-9.74	17.97	1664.87	1044.28	15.82
210	30.17	6.17	-23.04	20.43	1876.56	2188.35	9.14
240	34.84	0.00	-30.17	17.42	1617.42	2801.46	0.00
270	30.17	6.17	-29.22	9.74	956.89	2719.33	-9.14
300	17.42	10.69	-20.43	-0.55	71.94	1963.96	-15.82
330	0.00	12.35	-6.17	-10.69	-800.29	737.76	-18.27

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RRUS-11 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	17.42	10.69	-9.74	-17.97	-1426.10	630.72	15.82
30	0.00	12.35	6.17	-10.69	-800.29	-737.76	18.27
60	17.42	10.69	20.43	-0.55	71.94	-1963.96	15.82
90	30.17	6.17	29.22	9.74	956.89	-2719.33	9.14
120	34.84	0.00	30.17	17.42	1617.42	-2801.46	0.00
150	30.17	6.17	23.04	20.43	1876.56	-2188.35	-9.14
180	17.42	10.69	9.74	17.97	1664.87	-1044.28	-15.82
210	0.00	12.35	-6.17	10.69	1039.06	324.19	-18.27
240	17.42	10.69	-20.43	0.55	166.83	1550.40	-15.82
270	30.17	6.17	-29.22	-9.74	-718.12	2305.77	-9.14
300	34.84	0.00	-30.17	-17.42	-1378.65	2387.90	0.00
330	30.17	6.17	-23.04	-20.43	-1637.79	1774.79	9.14

RRUS-11 - Elevation 86 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	34.84	0.00	0.00	-34.84	-3234.85	0.00	0.00
30	30.17	6.17	6.17	-30.17	-2833.45	-530.98	-9.14
60	17.42	10.69	10.69	-17.42	-1736.81	-919.68	-15.82
90	0.00	12.35	12.35	0.00	-238.77	-1061.95	-18.27
120	17.42	10.69	10.69	17.42	1259.27	-919.68	-15.82
150	30.17	6.17	6.17	30.17	2355.91	-530.98	-9.14
180	34.84	0.00	0.00	34.84	2757.31	0.00	0.00
210	30.17	6.17	-6.17	30.17	2355.91	530.98	9.14
240	17.42	10.69	-10.69	17.42	1259.27	919.68	15.82
270	0.00	12.35	-12.35	0.00	-238.77	1061.95	18.27
300	17.42	10.69	-10.69	-17.42	-1736.81	919.68	15.82
330	30.17	6.17	-6.17	-30.17	-2833.45	530.98	9.14

Clamp Ring Assembly - Elevation 86 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.08	0.00	0.00	-0.08	-7.05	0.00	0.00
30	0.08	0.00	0.04	-0.07	-6.11	-3.53	0.00
60	0.08	0.00	0.07	-0.04	-3.53	-6.11	0.00
90	0.08	0.00	0.08	0.00	0.00	-7.05	0.00
120	0.08	0.00	0.07	0.04	3.53	-6.11	0.00
150	0.08	0.00	0.04	0.07	6.11	-3.53	0.00
180	0.08	0.00	0.00	0.08	7.05	0.00	0.00
210	0.08	0.00	-0.04	0.07	6.11	3.53	0.00
240	0.08	0.00	-0.07	0.04	3.53	6.11	0.00
270	0.08	0.00	-0.08	0.00	0.00	7.05	0.00
300	0.08	0.00	-0.07	-0.04	-3.53	6.11	0.00
330	0.08	0.00	-0.04	-0.07	-6.11	3.53	0.00

Dish Pipe Mount - Elevation 76 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	16.73	8.37	-14.49	-968.23	-866.24	26.47
30	0.00	19.32	9.66	-16.73	-1138.60	-964.61	30.56

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Dish Pipe Mount - Elevation 76 - From Leg B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
60	0.00	16.73	8.37	-14.49	-968.23	-866.24	26.47
90	0.00	9.66	4.83	-8.37	-502.78	-597.52	15.28
120	0.00	0.00	0.00	0.00	133.04	-230.43	0.00
150	0.00	9.66	-4.83	8.37	768.85	136.66	-15.28
180	0.00	16.73	-8.37	14.49	1234.30	405.39	-26.47
210	0.00	19.32	-9.66	16.73	1404.67	503.75	-30.56
240	0.00	16.73	-8.37	14.49	1234.30	405.39	-26.47
270	0.00	9.66	-4.83	8.37	768.85	136.66	-15.28
300	0.00	0.00	0.00	0.00	133.04	-230.43	0.00
330	0.00	9.66	4.83	-8.37	-502.78	-597.52	15.28

Clamp Ring Assembly - Elevation 76 - None B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.06	0.00	0.00	-0.06	-4.86	0.00	0.00
30	0.06	0.00	0.03	-0.06	-4.21	-2.43	0.00
60	0.06	0.00	0.06	-0.03	-2.43	-4.21	0.00
90	0.06	0.00	0.06	0.00	0.00	-4.86	0.00
120	0.06	0.00	0.06	0.03	2.43	-4.21	0.00
150	0.06	0.00	0.03	0.06	4.21	-2.43	0.00
180	0.06	0.00	0.00	0.06	4.86	0.00	0.00
210	0.06	0.00	-0.03	0.06	4.21	2.43	0.00
240	0.06	0.00	-0.06	0.03	2.43	4.21	0.00
270	0.06	0.00	-0.06	0.00	0.00	4.86	0.00
300	0.06	0.00	-0.06	-0.03	-2.43	4.21	0.00
330	0.06	0.00	-0.03	-0.06	-4.21	2.43	0.00

Discrete Appurtenance Totals - With Ice

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	8.37	-3833.93	-426476.95	-543.92	-90.65
30	1919.38	-3324.47	-369603.47	-213532.81	-10.76
60	3316.10	-1924.21	-213586.42	-369281.13	72.01
90	3824.27	-8.37	-230.45	-426056.25	135.49
120	3307.74	1909.72	213295.90	-368645.31	162.66
150	1904.89	3316.10	369778.39	-212431.54	146.25
180	-8.37	3833.93	427287.69	727.71	90.65
210	-1919.38	3324.47	370414.21	213716.60	10.76
240	-3316.10	1924.21	214397.16	369464.92	-72.01
270	-3824.27	8.37	1041.19	426240.04	-135.49
300	-3307.74	-1909.72	-212485.16	368829.10	-162.66
330	-1904.89	-3316.10	-368967.66	212615.33	-146.25

Discrete Appurtenance Pressures - Service $G_H = 1.100$

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Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
10' Lightning Rod	240.0000	76.00	-0.90	0.52	134.00	1.346	11	2.96	2.96
101-83B-09-0-03	240.0000	45.00	-0.90	0.52	129.00	1.335	10	2.91	2.91
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	129.00	1.335	10	0.01	0.01
Panel-72x12x9	240.0000	89.96	-0.93	0.54	126.00	1.329	10	8.40	7.88
Panel-72x12x9	120.0000	89.96	0.93	0.54	126.00	1.329	10	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.07	126.00	1.329	10	8.40	7.88
RRUS-11	240.0000	165.00	-0.93	0.54	126.00	1.329	10	11.38	3.07
RRUS-11	120.0000	165.00	0.93	0.54	126.00	1.329	10	11.38	3.07
RRUS-11	0.0000	165.00	0.00	-1.07	126.00	1.329	10	11.38	3.07
Low-Profile Platform 14'	0.0000	1106.00	0.00	0.00	126.00	1.329	10	21.00	21.00
Panel-72x12x9	240.0000	89.96	-1.02	0.59	116.00	1.306	10	8.40	7.88
Panel-72x12x9	120.0000	89.96	1.02	0.59	116.00	1.306	10	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.17	116.00	1.306	10	8.40	7.88
RRUS-11	240.0000	165.00	-1.02	0.59	116.00	1.306	10	11.38	3.07
RRUS-11	120.0000	165.00	1.02	0.59	116.00	1.306	10	11.38	3.07
RRUS-11	0.0000	165.00	0.00	-1.17	116.00	1.306	10	11.38	3.07
Low-Profile Platform 14'	0.0000	1106.00	0.00	0.00	116.00	1.306	10	21.00	21.00
10' Whip	240.0000	4.00	-1.09	0.63	113.00	1.299	10	1.41	1.41
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	108.00	1.286	10	0.01	0.01
10' Whip	120.0000	4.00	1.09	0.63	113.00	1.299	10	1.41	1.41
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	108.00	1.286	10	0.01	0.01
AIR-21	0.0000	200.16	0.00	-1.28	106.00	1.281	10	13.07	10.93
AIR-21	120.0000	200.16	1.10	0.64	106.00	1.281	10	13.07	10.93
AIR-21	240.0000	200.16	-1.10	0.64	106.00	1.281	10	13.07	10.93
TMA - 10"x6"x3"	0.0000	10.00	0.00	-1.28	106.00	1.281	10	0.50	0.26
TMA - 10"x6"x3"	120.0000	10.00	1.10	0.64	106.00	1.281	10	0.50	0.26
TMA - 10"x6"x3"	240.0000	10.00	-1.10	0.64	106.00	1.281	10	0.50	0.26
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	106.00	1.281	10	0.01	0.01
RRUS-11	240.0000	110.00	-1.18	0.68	98.00	1.260	10	7.58	2.05
RRUS-11	120.0000	110.00	1.18	0.68	98.00	1.260	10	7.58	2.05
RRUS-11	0.0000	110.00	0.00	-1.36	98.00	1.260	10	7.58	2.05
RR-RM1560 - 6 Sector Ring Mount	0.0000	123.00	0.00	0.00	98.00	1.260	10	3.50	3.50
Panel-72x12x9	240.0000	89.96	-1.19	0.69	96.00	1.255	10	8.40	7.88
Panel-72x12x9	120.0000	89.96	1.19	0.69	96.00	1.255	10	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.38	96.00	1.255	10	8.40	7.88
RRUS-11	240.0000	55.00	-1.19	0.69	96.00	1.255	10	3.79	1.02
RRUS-11	120.0000	55.00	1.19	0.69	96.00	1.255	10	3.79	1.02
RRUS-11	0.0000	55.00	0.00	-1.38	96.00	1.255	10	3.79	1.02
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	96.00	1.255	10	0.01	0.01
RRUS-11	240.0000	110.00	-1.26	0.73	88.00	1.232	10	7.58	2.05
RRUS-11	120.0000	110.00	1.26	0.73	88.00	1.232	10	7.58	2.05
RRUS-11	0.0000	110.00	0.00	-1.46	88.00	1.232	10	7.58	2.05
RR-RM1560 - 6 Sector Ring Mount	0.0000	123.00	0.00	0.00	88.00	1.232	10	3.50	3.50
Panel-72x12x9	240.0000	89.96	-1.28	0.74	86.00	1.226	10	8.40	7.88
Panel-72x12x9	120.0000	89.96	1.28	0.74	86.00	1.226	10	8.40	7.88
Panel-72x12x9	0.0000	89.96	0.00	-1.48	86.00	1.226	10	8.40	7.88
RRUS-11	240.0000	55.00	-1.28	0.74	86.00	1.226	10	3.79	1.02
RRUS-11	120.0000	55.00	1.28	0.74	86.00	1.226	10	3.79	1.02
RRUS-11	0.0000	55.00	0.00	-1.48	86.00	1.226	10	3.79	1.02
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	86.00	1.226	10	0.01	0.01
Dish Pipe Mount	120.0000	103.00	1.37	0.79	76.00	1.195	9	0.00	1.80
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	76.00	1.195	9	0.01	0.01
Sum Weight:		7997.00							

Discrete Appurtenance Vectors - Service

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 53 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

10' Lightning Rod - Elevation 134 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	17.19	29.77	0.00	-34.38	-4567.08	68.49	-30.98
30	29.77	17.19	17.19	-29.77	-3949.91	-2234.82	-17.89
60	34.38	0.00	29.77	-17.19	-2263.77	-3920.96	0.00
90	29.77	17.19	34.38	0.00	39.55	-4538.13	17.89
120	17.19	29.77	29.77	17.19	2342.86	-3920.96	30.98
150	0.00	34.38	17.19	29.77	4029.00	-2234.82	35.78
180	17.19	29.77	0.00	34.38	4646.17	68.49	30.98
210	29.77	17.19	-17.19	29.77	4029.00	2371.81	17.89
240	34.38	0.00	-29.77	17.19	2342.86	4057.95	0.00
270	29.77	17.19	-34.38	0.00	39.55	4675.12	-17.89
300	17.19	29.77	-29.77	-17.19	-2263.77	4057.95	-30.98
330	0.00	34.38	-17.19	-29.77	-3949.91	2371.81	-35.78

101-83B-09-0-03 - Elevation 129 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	13.39	23.20	0.00	-26.79	-3432.26	40.56	-24.14
30	23.20	13.39	13.39	-23.20	-2969.28	-1687.28	-13.94
60	26.79	0.00	23.20	-13.39	-1704.42	-2952.14	0.00
90	23.20	13.39	26.79	0.00	23.41	-3415.12	13.94
120	13.39	23.20	23.20	13.39	1751.25	-2952.14	24.14
150	0.00	26.79	13.39	23.20	3016.11	-1687.28	27.88
180	13.39	23.20	0.00	26.79	3479.09	40.56	24.14
210	23.20	13.39	-13.39	23.20	3016.11	1768.39	13.94
240	26.79	0.00	-23.20	13.39	1751.25	3033.26	0.00
270	23.20	13.39	-26.79	0.00	23.41	3496.23	-13.94
300	13.39	23.20	-23.20	-13.39	-1704.42	3033.26	-24.14
330	0.00	26.79	-13.39	-23.20	-2969.28	1768.39	-27.88

Clamp Ring Assembly - Elevation 129 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.09	0.00	0.00	-0.09	-11.87	0.00	0.00
30	0.09	0.00	0.05	-0.08	-10.28	-5.94	0.00
60	0.09	0.00	0.08	-0.05	-5.94	-10.28	0.00
90	0.09	0.00	0.09	0.00	0.00	-11.87	0.00
120	0.09	0.00	0.08	0.05	5.94	-10.28	0.00
150	0.09	0.00	0.05	0.08	10.28	-5.94	0.00
180	0.09	0.00	0.00	0.09	11.87	0.00	0.00
210	0.09	0.00	-0.05	0.08	10.28	5.94	0.00
240	0.09	0.00	-0.08	0.05	5.94	10.28	0.00
270	0.09	0.00	-0.09	0.00	0.00	11.87	0.00
300	0.09	0.00	-0.08	-0.05	-5.94	10.28	0.00
330	0.09	0.00	-0.05	-0.08	-10.28	5.94	0.00

Panel-72x12x9 - Elevation 126 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	38.47	62.47	2.08	-73.33	-9191.93	-178.90	-66.92
30	66.63	36.07	39.67	-64.55	-8085.17	-4915.29	-38.64

tnxTower

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Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 126 - From Leg C

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	76.94	0.00	66.63	-38.47	-4799.09	-8312.26	0.00
90	66.63	36.07	75.74	-2.08	-214.18	-9459.61	38.64
120	38.47	62.47	64.55	34.86	4441.03	-8049.89	66.92
150	0.00	72.13	36.07	62.47	7919.18	-4460.86	77.27
180	38.47	62.47	-2.08	73.33	9288.30	345.83	66.92
210	66.63	36.07	-39.67	64.55	8181.54	5082.21	38.64
240	76.94	0.00	-66.63	38.47	4895.46	8479.18	0.00
270	66.63	36.07	-75.74	2.08	310.55	9626.53	-38.64
300	38.47	62.47	-64.55	-34.86	-4344.65	8216.82	-66.92
330	0.00	72.13	-36.07	-62.47	-7822.80	4627.78	-77.27

Panel-72x12x9 - Elevation 126 - From Leg B

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	38.47	62.47	-2.08	-73.33	-9191.93	178.90	66.92
30	0.00	72.13	36.07	-62.47	-7822.80	-4627.78	77.27
60	38.47	62.47	64.55	-34.86	-4344.65	-8216.82	66.92
90	66.63	36.07	75.74	2.08	310.55	-9626.53	38.64
120	76.94	0.00	66.63	38.47	4895.46	-8479.18	0.00
150	66.63	36.07	39.67	64.55	8181.54	-5082.21	-38.64
180	38.47	62.47	2.08	73.33	9288.30	-345.83	-66.92
210	0.00	72.13	-36.07	62.47	7919.18	4460.86	-77.27
240	38.47	62.47	-64.55	34.86	4441.03	8049.89	-66.92
270	66.63	36.07	-75.74	-2.08	-214.18	9459.61	-38.64
300	76.94	0.00	-66.63	-38.47	-4799.09	8312.26	0.00
330	66.63	36.07	-39.67	-64.55	-8085.17	4915.29	38.64

Panel-72x12x9 - Elevation 126 - From Leg A

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	76.94	0.00	0.00	-76.94	-9790.92	0.00	0.00
30	66.63	36.07	36.07	-66.63	-8492.10	-4544.32	-38.64
60	38.47	62.47	62.47	-38.47	-4943.65	-7870.99	-66.92
90	0.00	72.13	72.13	0.00	-96.37	-9088.64	-77.27
120	38.47	62.47	62.47	38.47	4750.90	-7870.99	-66.92
150	66.63	36.07	36.07	66.63	8299.35	-4544.32	-38.64
180	76.94	0.00	0.00	76.94	9598.17	0.00	0.00
210	66.63	36.07	-36.07	66.63	8299.35	4544.32	38.64
240	38.47	62.47	-62.47	38.47	4750.90	7870.99	66.92
270	0.00	72.13	-72.13	0.00	-96.37	9088.64	77.27
300	38.47	62.47	-62.47	-38.47	-4943.65	7870.99	66.92
330	66.63	36.07	-36.07	-66.63	-8492.10	4544.32	38.64

RRUS-11 - Elevation 126 - From Leg C

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	52.10	24.37	32.94	-47.15	-5853.07	-3996.78	-26.11
30	90.24	14.07	71.12	-57.30	-7132.00	-8807.46	-15.07
60	104.20	0.00	90.24	-52.10	-6476.23	-11217.17	0.00
90	90.24	14.07	85.18	-32.94	-4061.48	-10580.23	15.07
120	52.10	24.37	57.30	-4.95	-534.78	-7067.30	26.11

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

RRUS-11 - Elevation 126 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
150	0.00	28.14	14.07	24.37	3158.90	-1619.68	30.15
180	52.10	24.37	-32.94	47.15	6029.84	4302.95	26.11
210	90.24	14.07	-71.12	57.30	7308.77	9113.62	15.07
240	104.20	0.00	-90.24	52.10	6653.00	11523.33	0.00
270	90.24	14.07	-85.18	32.94	4238.25	10886.39	-15.07
300	52.10	24.37	-57.30	4.95	711.54	7373.47	-26.11
330	0.00	28.14	-14.07	-24.37	-2982.14	1925.85	-30.15

RRUS-11 - Elevation 126 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	52.10	24.37	-32.94	-47.15	-5853.07	3996.78	26.11
30	0.00	28.14	14.07	-24.37	-2982.14	-1925.85	30.15
60	52.10	24.37	57.30	4.95	711.54	-7373.47	26.11
90	90.24	14.07	85.18	32.94	4238.25	-10886.39	15.07
120	104.20	0.00	90.24	52.10	6653.00	-11523.33	0.00
150	90.24	14.07	71.12	57.30	7308.77	-9113.62	-15.07
180	52.10	24.37	32.94	47.15	6029.84	-4302.95	-26.11
210	0.00	28.14	-14.07	24.37	3158.90	1619.68	-30.15
240	52.10	24.37	-57.30	-4.95	-534.78	7067.30	-26.11
270	90.24	14.07	-85.18	-32.94	-4061.48	10580.23	-15.07
300	104.20	0.00	-90.24	-52.10	-6476.23	11217.17	0.00
330	90.24	14.07	-71.12	-57.30	-7132.00	8807.46	15.07

RRUS-11 - Elevation 126 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	104.20	0.00	0.00	-104.20	-13306.00	0.00	0.00
30	90.24	14.07	14.07	-90.24	-11547.01	-1772.77	-15.07
60	52.10	24.37	24.37	-52.10	-6741.38	-3070.52	-26.11
90	0.00	28.14	28.14	0.00	-176.76	-3545.53	-30.15
120	52.10	24.37	24.37	52.10	6387.85	-3070.52	-26.11
150	90.24	14.07	14.07	90.24	11193.49	-1772.77	-15.07
180	104.20	0.00	0.00	104.20	12952.47	0.00	0.00
210	90.24	14.07	-14.07	90.24	11193.49	1772.77	15.07
240	52.10	24.37	-24.37	52.10	6387.85	3070.52	26.11
270	0.00	28.14	-28.14	0.00	-176.76	3545.53	30.15
300	52.10	24.37	-24.37	-52.10	-6741.38	3070.52	26.11
330	90.24	14.07	-14.07	-90.24	-11547.01	1772.77	15.07

Low-Profile Platform 14' - Elevation 126 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	240.44	0.00	0.00	-240.44	-30295.45	0.00	0.00
30	240.44	0.00	120.22	-208.23	-26236.63	-15147.73	0.00
60	240.44	0.00	208.23	-120.22	-15147.73	-26236.63	0.00
90	240.44	0.00	240.44	0.00	0.00	-30295.45	0.00
120	240.44	0.00	208.23	120.22	15147.73	-26236.63	0.00
150	240.44	0.00	120.22	208.23	26236.63	-15147.73	0.00
180	240.44	0.00	0.00	240.44	30295.45	0.00	0.00
210	240.44	0.00	-120.22	208.23	26236.63	15147.73	0.00

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	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

<i>Low-Profile Platform 14' - Elevation 126 - None C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
240	240.44	0.00	-208.23	120.22	15147.73	26236.63	0.00
270	240.44	0.00	-240.44	0.00	0.00	30295.45	0.00
300	240.44	0.00	-208.23	-120.22	-15147.73	26236.63	0.00
330	240.44	0.00	-120.22	-208.23	-26236.63	15147.73	0.00

<i>Panel-72x12x9 - Elevation 116 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	37.81	61.39	2.05	-72.07	-8307.18	-145.96	-72.03
30	65.48	35.44	38.99	-63.44	-7305.85	-4431.19	-41.59
60	75.61	0.00	65.48	-37.81	-4332.77	-7504.59	0.00
90	65.48	35.44	74.43	-2.05	-184.60	-8542.64	41.59
120	37.81	61.39	63.44	34.26	4027.19	-7267.21	72.03
150	0.00	70.89	35.44	61.39	7174.03	-4020.04	83.18
180	37.81	61.39	-2.05	72.07	8412.74	328.79	72.03
210	65.48	35.44	-38.99	63.44	7411.40	4614.02	41.59
240	75.61	0.00	-65.48	37.81	4438.33	7687.42	0.00
270	65.48	35.44	-74.43	2.05	290.15	8725.47	-41.59
300	37.81	61.39	-63.44	-34.26	-3921.63	7450.04	-72.03
330	0.00	70.89	-35.44	-61.39	-7068.47	4202.87	-83.18

<i>Panel-72x12x9 - Elevation 116 - From Leg B</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	37.81	61.39	-2.05	-72.07	-8307.18	145.96	72.03
30	0.00	70.89	35.44	-61.39	-7068.47	-4202.87	83.18
60	37.81	61.39	63.44	-34.26	-3921.63	-7450.04	72.03
90	65.48	35.44	74.43	2.05	290.15	-8725.47	41.59
120	75.61	0.00	65.48	37.81	4438.33	-7687.42	0.00
150	65.48	35.44	38.99	63.44	7411.40	-4614.02	-41.59
180	37.81	61.39	2.05	72.07	8412.74	-328.79	-72.03
210	0.00	70.89	-35.44	61.39	7174.03	4020.04	-83.18
240	37.81	61.39	-63.44	34.26	4027.19	7267.21	-72.03
270	65.48	35.44	-74.43	-2.05	-184.60	8542.64	-41.59
300	75.61	0.00	-65.48	-37.81	-4332.77	7504.59	0.00
330	65.48	35.44	-38.99	-63.44	-7305.85	4431.19	41.59

<i>Panel-72x12x9 - Elevation 116 - From Leg A</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	75.61	0.00	0.00	-75.61	-8876.66	0.00	0.00
30	65.48	35.44	35.44	-65.48	-7701.56	-4111.46	-41.59
60	37.81	61.39	61.39	-37.81	-4491.11	-7121.25	-72.03
90	0.00	70.89	70.89	0.00	-105.56	-8222.91	-83.18
120	37.81	61.39	61.39	37.81	4280.00	-7121.25	-72.03
150	65.48	35.44	35.44	65.48	7490.44	-4111.46	-41.59
180	75.61	0.00	0.00	75.61	8665.55	0.00	0.00
210	65.48	35.44	-35.44	65.48	7490.44	4111.46	41.59
240	37.81	61.39	-61.39	37.81	4280.00	7121.25	72.03
270	0.00	70.89	-70.89	0.00	-105.56	8222.91	83.18
300	37.81	61.39	-61.39	-37.81	-4491.11	7121.25	72.03

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Panel-72x12x9 - Elevation 116 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	65.48	35.44	-35.44	-65.48	-7701.56	4111.46	41.59

RRUS-11 - Elevation 116 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	51.20	23.95	32.37	-46.34	-5278.71	-3586.91	-28.10
30	88.68	13.83	69.89	-56.32	-6435.81	-7939.35	-16.22
60	102.40	0.00	88.68	-51.20	-5842.51	-10119.52	0.00
90	88.68	13.83	83.71	-32.37	-3657.77	-9543.25	16.22
120	51.20	23.95	56.32	-4.86	-467.00	-6364.95	28.10
150	0.00	27.65	13.83	23.95	2874.85	-1436.23	32.45
180	51.20	23.95	-32.37	46.34	5472.31	3922.24	28.10
210	88.68	13.83	-69.89	56.32	6629.42	8274.69	16.22
240	102.40	0.00	-88.68	51.20	6036.12	10454.86	0.00
270	88.68	13.83	-83.71	32.37	3851.38	9878.59	-16.22
300	51.20	23.95	-56.32	4.86	660.61	6700.29	-28.10
330	0.00	27.65	-13.83	-23.95	-2681.24	1771.57	-32.45

RRUS-11 - Elevation 116 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	51.20	23.95	-32.37	-46.34	-5278.71	3586.91	28.10
30	0.00	27.65	13.83	-23.95	-2681.24	-1771.57	32.45
60	51.20	23.95	56.32	4.86	660.61	-6700.29	28.10
90	88.68	13.83	83.71	32.37	3851.38	-9878.59	16.22
120	102.40	0.00	88.68	51.20	6036.12	-10454.86	0.00
150	88.68	13.83	69.89	56.32	6629.42	-8274.69	-16.22
180	51.20	23.95	32.37	46.34	5472.31	-3922.24	-28.10
210	0.00	27.65	-13.83	23.95	2874.85	1436.23	-32.45
240	51.20	23.95	-56.32	-4.86	-467.00	6364.95	-28.10
270	88.68	13.83	-83.71	-32.37	-3657.77	9543.25	-16.22
300	102.40	0.00	-88.68	-51.20	-5842.51	10119.52	0.00
330	88.68	13.83	-69.89	-56.32	-6435.81	7939.35	16.22

RRUS-11 - Elevation 116 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	102.40	0.00	0.00	-102.40	-12072.23	0.00	0.00
30	88.68	13.83	13.83	-88.68	-10480.80	-1603.90	-16.22
60	51.20	23.95	23.95	-51.20	-6132.92	-2778.04	-28.10
90	0.00	27.65	27.65	0.00	-193.61	-3207.81	-32.45
120	51.20	23.95	23.95	51.20	5745.71	-2778.04	-28.10
150	88.68	13.83	13.83	88.68	10093.59	-1603.90	-16.22
180	102.40	0.00	0.00	102.40	11685.02	0.00	0.00
210	88.68	13.83	-13.83	88.68	10093.59	1603.90	16.22
240	51.20	23.95	-23.95	51.20	5745.71	2778.04	28.10
270	0.00	27.65	-27.65	0.00	-193.61	3207.81	32.45
300	51.20	23.95	-23.95	-51.20	-6132.92	2778.04	28.10
330	88.68	13.83	-13.83	-88.68	-10480.80	1603.90	16.22

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<i>Low-Profile Platform 14' - Elevation 116 - None C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	236.29	0.00	0.00	-236.29	-27409.71	0.00	0.00
30	236.29	0.00	118.15	-204.63	-23737.50	-13704.85	0.00
60	236.29	0.00	204.63	-118.15	-13704.85	-23737.50	0.00
90	236.29	0.00	236.29	0.00	0.00	-27409.71	0.00
120	236.29	0.00	204.63	118.15	13704.85	-23737.50	0.00
150	236.29	0.00	118.15	204.63	23737.50	-13704.85	0.00
180	236.29	0.00	0.00	236.29	27409.71	0.00	0.00
210	236.29	0.00	-118.15	204.63	23737.50	13704.85	0.00
240	236.29	0.00	-204.63	118.15	13704.85	-23737.50	0.00
270	236.29	0.00	-236.29	0.00	0.00	27409.71	0.00
300	236.29	0.00	-204.63	-118.15	-13704.85	23737.50	0.00
330	236.29	0.00	-118.15	-204.63	-23737.50	13704.85	0.00

<i>10' Whip - Elevation 113 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	6.32	10.94	0.00	-12.63	-1424.80	4.35	-13.73
30	10.94	6.32	6.32	-10.94	-1233.58	-709.31	-7.93
60	12.63	0.00	10.94	-6.32	-711.14	-1231.74	0.00
90	10.94	6.32	12.63	0.00	2.51	-1422.96	7.93
120	6.32	10.94	10.94	6.32	716.16	-1231.74	13.73
150	0.00	12.63	6.32	10.94	1238.60	-709.31	15.85
180	6.32	10.94	0.00	12.63	1429.82	4.35	13.73
210	10.94	6.32	-6.32	10.94	1238.60	718.00	7.93
240	12.63	0.00	-10.94	6.32	716.16	1240.43	0.00
270	10.94	6.32	-12.63	0.00	2.51	1431.66	-7.93
300	6.32	10.94	-10.94	-6.32	-711.14	1240.43	-13.73
330	0.00	12.63	-6.32	-10.94	-1233.58	718.00	-15.85

<i>Clamp Ring Assembly - Elevation 108 - None C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.09	0.00	0.00	-0.09	-9.58	0.00	0.00
30	0.09	0.00	0.04	-0.08	-8.29	-4.79	0.00
60	0.09	0.00	0.08	-0.04	-4.79	-8.29	0.00
90	0.09	0.00	0.09	0.00	0.00	-9.58	0.00
120	0.09	0.00	0.08	0.04	4.79	-8.29	0.00
150	0.09	0.00	0.04	0.08	8.29	-4.79	0.00
180	0.09	0.00	0.00	0.09	9.58	0.00	0.00
210	0.09	0.00	-0.04	0.08	8.29	4.79	0.00
240	0.09	0.00	-0.08	0.04	4.79	8.29	0.00
270	0.09	0.00	-0.09	0.00	0.00	9.58	0.00
300	0.09	0.00	-0.08	-0.04	-4.79	8.29	0.00
330	0.09	0.00	-0.04	-0.08	-8.29	4.79	0.00

<i>10' Whip - Elevation 113 - From Leg B</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	6.32	10.94	0.00	-12.63	-1424.80	-4.35	13.73
30	0.00	12.63	6.32	-10.94	-1233.58	-718.00	15.85

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

10' Whip - Elevation 113 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	6.32	10.94	10.94	-6.32	-711.14	-1240.43	13.73
90	10.94	6.32	12.63	0.00	2.51	-1431.66	7.93
120	12.63	0.00	10.94	6.32	716.16	-1240.43	0.00
150	10.94	6.32	6.32	10.94	1238.60	-718.00	-7.93
180	6.32	10.94	0.00	12.63	1429.82	-4.35	-13.73
210	0.00	12.63	-6.32	10.94	1238.60	709.31	-15.85
240	6.32	10.94	-10.94	6.32	716.16	1231.74	-13.73
270	10.94	6.32	-12.63	0.00	2.51	1422.96	-7.93
300	12.63	0.00	-10.94	-6.32	-711.14	1231.74	0.00
330	10.94	6.32	-6.32	-10.94	-1233.58	709.31	7.93

Clamp Ring Assembly - Elevation 108 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.09	0.00	0.00	-0.09	-9.58	0.00	0.00
30	0.09	0.00	0.04	-0.08	-8.29	-4.79	0.00
60	0.09	0.00	0.08	-0.04	-4.79	-8.29	0.00
90	0.09	0.00	0.09	0.00	0.00	-9.58	0.00
120	0.09	0.00	0.08	0.04	4.79	-8.29	0.00
150	0.09	0.00	0.04	0.08	8.29	-4.79	0.00
180	0.09	0.00	0.00	0.09	9.58	0.00	0.00
210	0.09	0.00	-0.04	0.08	8.29	4.79	0.00
240	0.09	0.00	-0.08	0.04	4.79	8.29	0.00
270	0.09	0.00	-0.09	0.00	0.00	9.58	0.00
300	0.09	0.00	-0.08	-0.04	-4.79	8.29	0.00
330	0.09	0.00	-0.04	-0.08	-8.29	4.79	0.00

AIR-21 - Elevation 106 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	115.41	0.00	0.00	-115.41	-12488.64	0.00	0.00
30	99.95	48.26	48.26	-99.95	-10849.68	-5115.43	-61.55
60	57.70	83.59	83.59	-57.70	-6371.97	-8860.19	-106.61
90	0.00	96.52	96.52	0.00	-255.30	-10230.86	-123.10
120	57.70	83.59	83.59	57.70	5861.38	-8860.19	-106.61
150	99.95	48.26	48.26	99.95	10339.09	-5115.43	-61.55
180	115.41	0.00	0.00	115.41	11978.05	0.00	0.00
210	99.95	48.26	-48.26	99.95	10339.09	5115.43	61.55
240	57.70	83.59	-83.59	57.70	5861.38	8860.19	106.61
270	0.00	96.52	-96.52	0.00	-255.30	10230.86	123.10
300	57.70	83.59	-83.59	-57.70	-6371.97	8860.19	106.61
330	99.95	48.26	-48.26	-99.95	-10849.68	5115.43	61.55

AIR-21 - Elevation 106 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	57.70	83.59	-8.18	-101.24	-10603.83	646.01	106.61
30	0.00	96.52	48.26	-83.59	-8732.54	-5336.52	123.10
60	57.70	83.59	91.77	-43.54	-4487.16	-9948.38	106.61
90	99.95	48.26	110.69	8.18	994.75	-11953.82	61.55
120	115.41	0.00	99.95	57.70	6244.32	-10815.48	0.00

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AIR-21 - Elevation 106 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
150	99.95	48.26	62.43	91.77	9854.93	-6838.38	-61.55
180	57.70	83.59	8.18	101.24	10859.13	-1088.19	-106.61
210	0.00	96.52	-48.26	83.59	8987.83	4894.34	-123.10
240	57.70	83.59	-91.77	43.54	4742.46	9506.19	-106.61
270	99.95	48.26	-110.69	-8.18	-739.45	11511.63	-61.55
300	115.41	0.00	-99.95	-57.70	-5989.02	10373.29	0.00
330	99.95	48.26	-62.43	-91.77	-9599.64	6396.20	61.55

AIR-21 - Elevation 106 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	57.70	83.59	8.18	-101.24	-10603.83	-646.01	-106.61
30	99.95	48.26	62.43	-91.77	-9599.64	-6396.20	-61.55
60	115.41	0.00	99.95	-57.70	-5989.02	-10373.29	0.00
90	99.95	48.26	110.69	-8.18	-739.45	-11511.63	61.55
120	57.70	83.59	91.77	43.54	4742.46	-9506.19	106.61
150	0.00	96.52	48.26	83.59	8987.83	-4894.34	123.10
180	57.70	83.59	-8.18	101.24	10859.13	1088.19	106.61
210	99.95	48.26	-62.43	91.77	9854.93	6838.38	61.55
240	115.41	0.00	-99.95	57.70	6244.32	10815.48	0.00
270	99.95	48.26	-110.69	8.18	994.75	11953.82	-61.55
300	57.70	83.59	-91.77	-43.54	-4487.16	9948.38	-106.61
330	0.00	96.52	-48.26	-83.59	-8732.54	5336.52	-123.10

TMA - 10"x6"x3" - Elevation 106 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	4.42	0.00	0.00	-4.42	-480.87	0.00	0.00
30	3.82	1.14	1.14	-3.82	-418.15	-120.77	-1.45
60	2.21	1.97	1.97	-2.21	-246.81	-209.17	-2.52
90	0.00	2.28	2.28	0.00	-12.75	-241.53	-2.91
120	2.21	1.97	1.97	2.21	221.30	-209.17	-2.52
150	3.82	1.14	1.14	3.82	392.64	-120.77	-1.45
180	4.42	0.00	0.00	4.42	455.36	0.00	0.00
210	3.82	1.14	-1.14	3.82	392.64	120.77	1.45
240	2.21	1.97	-1.97	2.21	221.30	209.17	2.52
270	0.00	2.28	-2.28	0.00	-12.75	241.53	2.91
300	2.21	1.97	-1.97	-2.21	-246.81	209.17	2.52
330	3.82	1.14	-1.14	-3.82	-418.15	120.77	1.45

TMA - 10"x6"x3" - Elevation 106 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	2.21	1.97	-0.93	-2.81	-291.80	87.07	2.52
30	0.00	2.28	1.14	-1.97	-202.80	-131.81	2.91
60	2.21	1.97	2.90	-0.60	-57.74	-318.33	2.52
90	3.82	1.14	3.88	0.93	104.49	-422.51	1.45
120	4.42	0.00	3.82	2.21	240.43	-416.44	0.00
150	3.82	1.14	2.74	2.90	313.66	-301.75	-1.45
180	2.21	1.97	0.93	2.81	304.56	-109.16	-2.52
210	0.00	2.28	-1.14	1.97	215.55	109.72	-2.91

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<i>TMA - 10"x6"x3" - Elevation 106 - From Leg B</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
240	2.21	1.97	-2.90	0.60	70.50	296.24	-2.52
270	3.82	1.14	-3.88	-0.93	-91.73	400.42	-1.45
300	4.42	0.00	-3.82	-2.21	-227.68	394.35	0.00
330	3.82	1.14	-2.74	-2.90	-300.91	279.66	1.45

<i>TMA - 10"x6"x3" - Elevation 106 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	2.21	1.97	0.93	-2.81	-291.80	-87.07	-2.52
30	3.82	1.14	2.74	-2.90	-300.91	-279.66	-1.45
60	4.42	0.00	3.82	-2.21	-227.68	-394.35	0.00
90	3.82	1.14	3.88	-0.93	-91.73	-400.42	1.45
120	2.21	1.97	2.90	0.60	70.50	-296.24	2.52
150	0.00	2.28	1.14	1.97	215.55	-109.72	2.91
180	2.21	1.97	-0.93	2.81	304.56	109.16	2.52
210	3.82	1.14	-2.74	2.90	313.66	301.75	1.45
240	4.42	0.00	-3.82	2.21	240.43	416.44	0.00
270	3.82	1.14	-3.88	0.93	104.49	422.51	-1.45
300	2.21	1.97	-2.90	-0.60	-57.74	318.33	-2.52
330	0.00	2.28	-1.14	-1.97	-202.80	131.81	-2.91

<i>Clamp Ring Assembly - Elevation 106 - None B</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.09	0.00	0.00	-0.09	-9.36	0.00	0.00
30	0.09	0.00	0.04	-0.08	-8.11	-4.68	0.00
60	0.09	0.00	0.08	-0.04	-4.68	-8.11	0.00
90	0.09	0.00	0.09	0.00	0.00	-9.36	0.00
120	0.09	0.00	0.08	0.04	4.68	-8.11	0.00
150	0.09	0.00	0.04	0.08	8.11	-4.68	0.00
180	0.09	0.00	0.00	0.09	9.36	0.00	0.00
210	0.09	0.00	-0.04	0.08	8.11	4.68	0.00
240	0.09	0.00	-0.08	0.04	4.68	8.11	0.00
270	0.09	0.00	-0.09	0.00	0.00	9.36	0.00
300	0.09	0.00	-0.08	-0.04	-4.68	8.11	0.00
330	0.09	0.00	-0.04	-0.08	-8.11	4.68	0.00

<i>RRUS-11 - Elevation 98 - From Leg C</i>							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	32.94	15.41	20.83	-29.82	-2847.35	-1911.61	-20.91
30	57.06	8.90	44.97	-36.23	-3476.33	-4277.49	-12.07
60	65.89	0.00	57.06	-32.94	-3153.82	-5462.58	0.00
90	57.06	8.90	53.86	-20.83	-1966.25	-5149.33	12.07
120	32.94	15.41	36.23	-3.13	-231.83	-3421.68	20.91
150	0.00	17.79	8.90	15.41	1584.72	-742.56	24.15
180	32.94	15.41	-20.83	29.82	2996.64	2170.18	20.91
210	57.06	8.90	-44.97	36.23	3625.61	4536.06	12.07
240	65.89	0.00	-57.06	32.94	3303.10	5721.15	0.00
270	57.06	8.90	-53.86	20.83	2115.54	5407.90	-12.07
300	32.94	15.41	-36.23	3.13	381.11	3680.25	-20.91

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 62 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

RRUS-11 - Elevation 98 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	0.00	17.79	-8.90	-15.41	-1435.43	1001.13	-24.15

RRUS-11 - Elevation 98 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	32.94	15.41	-20.83	-29.82	-2847.35	1911.61	20.91
30	0.00	17.79	8.90	-15.41	-1435.43	-1001.13	24.15
60	32.94	15.41	36.23	3.13	381.11	-3680.25	20.91
90	57.06	8.90	53.86	20.83	2115.54	-5407.90	12.07
120	65.89	0.00	57.06	32.94	3303.10	-5721.15	0.00
150	57.06	8.90	44.97	36.23	3625.61	-4536.06	-12.07
180	32.94	15.41	20.83	29.82	2996.64	-2170.18	-20.91
210	0.00	17.79	-8.90	15.41	1584.72	742.56	-24.15
240	32.94	15.41	-36.23	-3.13	-231.83	3421.68	-20.91
270	57.06	8.90	-53.86	-20.83	-1966.25	5149.33	-12.07
300	65.89	0.00	-57.06	-32.94	-3153.82	5462.58	0.00
330	57.06	8.90	-44.97	-36.23	-3476.33	4277.49	12.07

RRUS-11 - Elevation 98 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	65.89	0.00	0.00	-65.89	-6606.21	0.00	0.00
30	57.06	8.90	8.90	-57.06	-5741.15	-871.84	-12.07
60	32.94	15.41	15.41	-32.94	-3377.75	-1510.07	-20.91
90	0.00	17.79	17.79	0.00	-149.28	-1743.68	-24.15
120	32.94	15.41	15.41	32.94	3079.18	-1510.07	-20.91
150	57.06	8.90	8.90	57.06	5442.58	-871.84	-12.07
180	65.89	0.00	0.00	65.89	6307.64	0.00	0.00
210	57.06	8.90	-8.90	57.06	5442.58	871.84	12.07
240	32.94	15.41	-15.41	32.94	3079.18	1510.07	20.91
270	0.00	17.79	-17.79	0.00	-149.28	1743.68	24.15
300	32.94	15.41	-15.41	-32.94	-3377.75	1510.07	20.91
330	57.06	8.90	-8.90	-57.06	-5741.15	871.84	12.07

RR-RM1560 - 6 Sector Ring Mount - Elevation 98 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	38.01	0.00	0.00	-38.01	-3724.81	0.00	0.00
30	38.01	0.00	19.00	-32.92	-3225.78	-1862.40	0.00
60	38.01	0.00	32.92	-19.00	-1862.40	-3225.78	0.00
90	38.01	0.00	38.01	0.00	0.00	-3724.81	0.00
120	38.01	0.00	32.92	19.00	1862.40	-3225.78	0.00
150	38.01	0.00	19.00	32.92	3225.78	-1862.40	0.00
180	38.01	0.00	0.00	38.01	3724.81	0.00	0.00
210	38.01	0.00	-19.00	32.92	3225.78	1862.40	0.00
240	38.01	0.00	-32.92	19.00	1862.40	3225.78	0.00
270	38.01	0.00	-38.01	0.00	0.00	3724.81	0.00
300	38.01	0.00	-32.92	-19.00	-1862.40	3225.78	0.00
330	38.01	0.00	-19.00	-32.92	-3225.78	1862.40	0.00

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	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Panel-72x12x9 - Elevation 96 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	36.33	58.99	1.97	-69.25	-6586.41	-81.45	-81.26
30	62.93	34.06	37.47	-60.96	-5790.08	-3489.34	-46.92
60	72.66	0.00	62.93	-36.33	-3425.71	-5933.50	0.00
90	62.93	34.06	71.52	-1.97	-126.81	-6759.03	46.92
120	36.33	58.99	60.96	32.92	3222.66	-5744.72	81.26
150	0.00	68.12	34.06	58.99	5725.23	-3162.37	93.84
180	36.33	58.99	-1.97	69.25	6710.33	296.10	81.26
210	62.93	34.06	-37.47	60.96	5914.00	3703.98	46.92
240	72.66	0.00	-62.93	36.33	3549.63	6148.14	0.00
270	62.93	34.06	-71.52	1.97	250.74	6973.67	-46.92
300	36.33	58.99	-60.96	-32.92	-3098.74	5959.36	-81.26
330	0.00	68.12	-34.06	-58.99	-5601.30	3377.01	-93.84

Panel-72x12x9 - Elevation 96 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	36.33	58.99	-1.97	-69.25	-6586.41	81.45	81.26
30	0.00	68.12	34.06	-58.99	-5601.30	-3377.01	93.84
60	36.33	58.99	60.96	-32.92	-3098.74	-5959.36	81.26
90	62.93	34.06	71.52	1.97	250.74	-6973.67	46.92
120	72.66	0.00	62.93	36.33	3549.63	-6148.14	0.00
150	62.93	34.06	37.47	60.96	5914.00	-3703.98	-46.92
180	36.33	58.99	1.97	69.25	6710.33	-296.10	-81.26
210	0.00	68.12	-34.06	58.99	5725.23	3162.37	-93.84
240	36.33	58.99	-60.96	32.92	3222.66	5744.72	-81.26
270	62.93	34.06	-71.52	-1.97	-126.81	6759.03	-46.92
300	72.66	0.00	-62.93	-36.33	-3425.71	5933.50	0.00
330	62.93	34.06	-37.47	-60.96	-5790.08	3489.34	46.92

Panel-72x12x9 - Elevation 96 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	72.66	0.00	0.00	-72.66	-7099.26	0.00	0.00
30	62.93	34.06	34.06	-62.93	-6164.74	-3269.69	-46.92
60	36.33	58.99	58.99	-36.33	-3611.59	-5663.27	-81.26
90	0.00	68.12	68.12	0.00	-123.92	-6539.38	-93.84
120	36.33	58.99	58.99	36.33	3363.74	-5663.27	-81.26
150	62.93	34.06	34.06	62.93	5916.89	-3269.69	-46.92
180	72.66	0.00	0.00	72.66	6851.41	0.00	0.00
210	62.93	34.06	-34.06	62.93	5916.89	3269.69	46.92
240	36.33	58.99	-58.99	36.33	3363.74	5663.27	81.26
270	0.00	68.12	-68.12	0.00	-123.92	6539.38	93.84
300	36.33	58.99	-58.99	-36.33	-3611.59	5663.27	81.26
330	62.93	34.06	-34.06	-62.93	-6164.74	3269.69	46.92

RRUS-11 - Elevation 96 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	16.40	7.67	10.37	-14.84	-1387.10	-929.68	-10.57
30	28.41	4.43	22.39	-18.04	-1693.83	-2083.46	-6.10

RRUS-11 - Elevation 96 - From Leg C

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
60	32.80	0.00	28.41	-16.40	-1536.56	-2661.39	0.00
90	28.41	4.43	26.82	-10.37	-957.41	-2508.63	6.10
120	16.40	7.67	18.04	-1.56	-111.57	-1666.10	10.57
150	0.00	8.86	4.43	7.67	774.31	-359.56	12.20
180	16.40	7.67	-10.37	14.84	1462.86	1060.91	10.57
210	28.41	4.43	-22.39	18.04	1769.60	2214.68	6.10
240	32.80	0.00	-28.41	16.40	1612.32	2792.62	0.00
270	28.41	4.43	-26.82	10.37	1033.17	2639.86	-6.10
300	16.40	7.67	-18.04	1.56	187.34	1797.33	-10.57
330	0.00	8.86	-4.43	-7.67	-698.54	490.79	-12.20

RRUS-11 - Elevation 96 - From Leg B

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	16.40	7.67	-10.37	-14.84	-1387.10	929.68	10.57
30	0.00	8.86	4.43	-7.67	-698.54	-490.79	12.20
60	16.40	7.67	18.04	1.56	187.34	-1797.33	10.57
90	28.41	4.43	26.82	10.37	1033.17	-2639.86	6.10
120	32.80	0.00	28.41	16.40	1612.32	-2792.62	0.00
150	28.41	4.43	22.39	18.04	1769.60	-2214.68	-6.10
180	16.40	7.67	10.37	14.84	1462.86	-1060.91	-10.57
210	0.00	8.86	-4.43	7.67	774.31	359.56	-12.20
240	16.40	7.67	-18.04	-1.56	-111.57	1666.10	-10.57
270	28.41	4.43	-26.82	-10.37	-957.41	2508.63	-6.10
300	32.80	0.00	-28.41	-16.40	-1536.56	2661.39	0.00
330	28.41	4.43	-22.39	-18.04	-1693.83	2083.46	6.10

RRUS-11 - Elevation 96 - From Leg A

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	32.80	0.00	0.00	-32.80	-3224.64	0.00	0.00
30	28.41	4.43	4.43	-28.41	-2802.77	-425.17	-6.10
60	16.40	7.67	7.67	-16.40	-1650.20	-736.42	-10.57
90	0.00	8.86	8.86	0.00	-75.76	-850.35	-12.20
120	16.40	7.67	7.67	16.40	1498.67	-736.42	-10.57
150	28.41	4.43	4.43	28.41	2651.24	-425.17	-6.10
180	32.80	0.00	0.00	32.80	3073.11	0.00	0.00
210	28.41	4.43	-4.43	28.41	2651.24	425.17	6.10
240	16.40	7.67	-7.67	16.40	1498.67	736.42	10.57
270	0.00	8.86	-8.86	0.00	-75.76	850.35	12.20
300	16.40	7.67	-7.67	-16.40	-1650.20	736.42	10.57
330	28.41	4.43	-4.43	-28.41	-2802.77	425.17	6.10

Clamp Ring Assembly - Elevation 96 - None C

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.11	0.00	0.00	-0.11	-10.38	0.00	0.00
30	0.11	0.00	0.05	-0.09	-8.99	-5.19	0.00
60	0.11	0.00	0.09	-0.05	-5.19	-8.99	0.00
90	0.11	0.00	0.11	0.00	0.00	-10.38	0.00
120	0.11	0.00	0.09	0.05	5.19	-8.99	0.00

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Clamp Ring Assembly - Elevation 96 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
150	0.11	0.00	0.05	0.09	8.99	-5.19	0.00
180	0.11	0.00	0.00	0.11	10.38	0.00	0.00
210	0.11	0.00	-0.05	0.09	8.99	5.19	0.00
240	0.11	0.00	-0.09	0.05	5.19	8.99	0.00
270	0.11	0.00	-0.11	0.00	0.00	10.38	0.00
300	0.11	0.00	-0.09	-0.05	-5.19	8.99	0.00
330	0.11	0.00	-0.05	-0.09	-8.99	5.19	0.00

RRUS-11 - Elevation 88 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	32.21	15.06	20.36	-29.15	-2484.79	-1652.57	-21.98
30	55.78	8.70	43.96	-35.42	-3036.93	-3729.44	-12.69
60	64.41	0.00	55.78	-32.21	-2753.82	-4769.76	0.00
90	55.78	8.70	52.66	-20.36	-1711.32	-4494.78	12.69
120	32.21	15.06	35.42	-3.06	-188.77	-2978.18	21.98
150	0.00	17.39	8.70	15.06	1405.86	-626.33	25.38
180	32.21	15.06	-20.36	29.15	2645.30	1930.59	21.98
210	55.78	8.70	-43.96	35.42	3197.44	4007.45	12.69
240	64.41	0.00	-55.78	32.21	2914.33	5047.77	0.00
270	55.78	8.70	-52.66	20.36	1871.84	4772.79	-12.69
300	32.21	15.06	-35.42	3.06	349.29	3256.19	-21.98
330	0.00	17.39	-8.70	-15.06	-1245.35	904.35	-25.38

RRUS-11 - Elevation 88 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	32.21	15.06	-20.36	-29.15	-2484.79	1652.57	21.98
30	0.00	17.39	8.70	-15.06	-1245.35	-904.35	25.38
60	32.21	15.06	35.42	3.06	349.29	-3256.19	21.98
90	55.78	8.70	52.66	20.36	1871.84	-4772.79	12.69
120	64.41	0.00	55.78	32.21	2914.33	-5047.77	0.00
150	55.78	8.70	43.96	35.42	3197.44	-4007.45	-12.69
180	32.21	15.06	20.36	29.15	2645.30	-1930.59	-21.98
210	0.00	17.39	-8.70	15.06	1405.86	626.33	-25.38
240	32.21	15.06	-35.42	-3.06	-188.77	2978.18	-21.98
270	55.78	8.70	-52.66	-20.36	-1711.32	4494.78	-12.69
300	64.41	0.00	-55.78	-32.21	-2753.82	4769.76	0.00
330	55.78	8.70	-43.96	-35.42	-3036.93	3729.44	12.69

RRUS-11 - Elevation 88 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	64.41	0.00	0.00	-64.41	-5828.67	0.00	0.00
30	55.78	8.70	8.70	-55.78	-5069.28	-765.34	-12.69
60	32.21	15.06	15.06	-32.21	-2994.59	-1325.61	-21.98
90	0.00	17.39	17.39	0.00	-160.51	-1530.68	-25.38
120	32.21	15.06	15.06	32.21	2673.56	-1325.61	-21.98
150	55.78	8.70	8.70	55.78	4748.25	-765.34	-12.69
180	64.41	0.00	0.00	64.41	5507.64	0.00	0.00
210	55.78	8.70	-8.70	55.78	4748.25	765.34	12.69

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	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

RRUS-11 - Elevation 88 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
240	32.21	15.06	-15.06	32.21	2673.56	1325.61	21.98
270	0.00	17.39	-17.39	0.00	-160.51	1530.68	25.38
300	32.21	15.06	-15.06	-32.21	-2994.59	1325.61	21.98
330	55.78	8.70	-8.70	-55.78	-5069.28	765.34	12.69

RR-RM1560 - 6 Sector Ring Mount - Elevation 88 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	37.16	0.00	0.00	-37.16	-3269.79	0.00	0.00
30	37.16	0.00	18.58	-32.18	-2831.72	-1634.89	0.00
60	37.16	0.00	32.18	-18.58	-1634.89	-2831.72	0.00
90	37.16	0.00	37.16	0.00	0.00	-3269.79	0.00
120	37.16	0.00	32.18	18.58	1634.89	-2831.72	0.00
150	37.16	0.00	18.58	32.18	2831.72	-1634.89	0.00
180	37.16	0.00	0.00	37.16	3269.79	0.00	0.00
210	37.16	0.00	-18.58	32.18	2831.72	1634.89	0.00
240	37.16	0.00	-32.18	18.58	1634.89	2831.72	0.00
270	37.16	0.00	-37.16	0.00	0.00	3269.79	0.00
300	37.16	0.00	-32.18	-18.58	-1634.89	2831.72	0.00
330	37.16	0.00	-18.58	-32.18	-2831.72	1634.89	0.00

Panel-72x12x9 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	35.50	57.64	1.92	-67.67	-5752.93	-49.97	-85.29
30	61.48	33.28	36.61	-59.56	-5055.89	-3032.97	-49.24
60	71.00	0.00	61.48	-35.50	-2986.29	-5172.41	0.00
90	61.48	33.28	69.89	-1.92	-98.69	-5895.02	49.24
120	35.50	57.64	59.56	32.17	2833.20	-5007.17	85.29
150	0.00	66.56	33.28	57.64	5023.76	-2746.77	98.48
180	35.50	57.64	-1.92	67.67	5886.04	280.51	85.29
210	61.48	33.28	-36.61	59.56	5189.00	3263.52	49.24
240	71.00	0.00	-61.48	35.50	3119.40	5402.96	0.00
270	61.48	33.28	-69.89	1.92	231.79	6125.56	-49.24
300	35.50	57.64	-59.56	-32.17	-2700.09	5237.72	-85.29
330	0.00	66.56	-33.28	-57.64	-4890.65	2977.32	-98.48

Panel-72x12x9 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	35.50	57.64	-1.92	-67.67	-5752.93	49.97	85.29
30	0.00	66.56	33.28	-57.64	-4890.65	-2977.32	98.48
60	35.50	57.64	59.56	-32.17	-2700.09	-5237.72	85.29
90	61.48	33.28	69.89	1.92	231.79	-6125.56	49.24
120	71.00	0.00	61.48	35.50	3119.40	-5402.96	0.00
150	61.48	33.28	36.61	59.56	5189.00	-3263.52	-49.24
180	35.50	57.64	1.92	67.67	5886.04	-280.51	-85.29
210	0.00	66.56	-33.28	57.64	5023.76	2746.77	-98.48
240	35.50	57.64	-59.56	32.17	2833.20	5007.17	-85.29
270	61.48	33.28	-69.89	-1.92	-98.69	5895.02	-49.24
300	71.00	0.00	-61.48	-35.50	-2986.29	5172.41	0.00

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Panel-72x12x9 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	61.48	33.28	-36.61	-59.56	-5055.89	3032.97	49.24

Panel-72x12x9 - Elevation 86 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	71.00	0.00	0.00	-71.00	-6238.80	0.00	0.00
30	61.48	33.28	33.28	-61.48	-5420.79	-2862.04	-49.24
60	35.50	57.64	57.64	-35.50	-3185.95	-4957.20	-85.29
90	0.00	66.56	66.56	0.00	-133.11	-5724.09	-98.48
120	35.50	57.64	57.64	35.50	2919.74	-4957.20	-85.29
150	61.48	33.28	33.28	61.48	5154.58	-2862.04	-49.24
180	71.00	0.00	0.00	71.00	5972.59	0.00	0.00
210	61.48	33.28	-33.28	61.48	5154.58	2862.04	49.24
240	35.50	57.64	-57.64	35.50	2919.74	4957.20	85.29
270	0.00	66.56	-66.56	0.00	-133.11	5724.09	98.48
300	35.50	57.64	-57.64	-35.50	-3185.95	4957.20	85.29
330	61.48	33.28	-33.28	-61.48	-5420.79	2862.04	49.24

RRUS-11 - Elevation 86 - From Leg C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	16.02	7.50	10.13	-14.50	-1206.63	-800.73	-11.09
30	27.76	4.33	21.87	-17.63	-1475.13	-1810.66	-6.40
60	32.05	0.00	27.76	-16.02	-1337.46	-2316.54	0.00
90	27.76	4.33	26.20	-10.13	-830.51	-2182.83	6.40
120	16.02	7.50	17.63	-1.52	-90.13	-1445.34	11.09
150	0.00	8.66	4.33	7.50	685.30	-301.69	12.81
180	16.02	7.50	-10.13	14.50	1288.01	941.68	11.09
210	27.76	4.33	-21.87	17.63	1556.51	1951.61	6.40
240	32.05	0.00	-27.76	16.02	1418.84	2457.50	0.00
270	27.76	4.33	-26.20	10.13	911.89	2323.78	-6.40
300	16.02	7.50	-17.63	1.52	171.51	1586.29	-11.09
330	0.00	8.66	-4.33	-7.50	-603.92	442.64	-12.81

RRUS-11 - Elevation 86 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	16.02	7.50	-10.13	-14.50	-1206.63	800.73	11.09
30	0.00	8.66	4.33	-7.50	-603.92	-442.64	12.81
60	16.02	7.50	17.63	1.52	171.51	-1586.29	11.09
90	27.76	4.33	26.20	10.13	911.89	-2323.78	6.40
120	32.05	0.00	27.76	16.02	1418.84	-2457.50	0.00
150	27.76	4.33	21.87	17.63	1556.51	-1951.61	-6.40
180	16.02	7.50	10.13	14.50	1288.01	-941.68	-11.09
210	0.00	8.66	-4.33	7.50	685.30	301.69	-12.81
240	16.02	7.50	-17.63	-1.52	-90.13	1445.34	-11.09
270	27.76	4.33	-26.20	-10.13	-830.51	2182.83	-6.40
300	32.05	0.00	-27.76	-16.02	-1337.46	2316.54	0.00
330	27.76	4.33	-21.87	-17.63	-1475.13	1810.66	6.40

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RRUS-11 - Elevation 86 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	32.05	0.00	0.00	-32.05	-2837.67	0.00	0.00
30	27.76	4.33	4.33	-27.76	-2468.40	-372.17	-6.40
60	16.02	7.50	7.50	-16.02	-1459.53	-644.61	-11.09
90	0.00	8.66	8.66	0.00	-81.38	-744.33	-12.81
120	16.02	7.50	7.50	16.02	1296.77	-644.61	-11.09
150	27.76	4.33	4.33	27.76	2305.64	-372.17	-6.40
180	32.05	0.00	0.00	32.05	2674.91	0.00	0.00
210	27.76	4.33	-4.33	27.76	2305.64	372.17	6.40
240	16.02	7.50	-7.50	16.02	1296.77	644.61	11.09
270	0.00	8.66	-8.66	0.00	-81.38	744.33	12.81
300	16.02	7.50	-7.50	-16.02	-1459.53	644.61	11.09
330	27.76	4.33	-4.33	-27.76	-2468.40	372.17	6.40

Clamp Ring Assembly - Elevation 86 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.11	0.00	0.00	-0.11	-9.09	0.00	0.00
30	0.11	0.00	0.05	-0.09	-7.87	-4.54	0.00
60	0.11	0.00	0.09	-0.05	-4.54	-7.87	0.00
90	0.11	0.00	0.11	0.00	0.00	-9.09	0.00
120	0.11	0.00	0.09	0.05	4.54	-7.87	0.00
150	0.11	0.00	0.05	0.09	7.87	-4.54	0.00
180	0.11	0.00	0.00	0.11	9.09	0.00	0.00
210	0.11	0.00	-0.05	0.09	7.87	4.54	0.00
240	0.11	0.00	-0.09	0.05	4.54	7.87	0.00
270	0.11	0.00	-0.11	0.00	0.00	9.09	0.00
300	0.11	0.00	-0.09	-0.05	-4.54	7.87	0.00
330	0.11	0.00	-0.05	-0.09	-7.87	4.54	0.00

Dish Pipe Mount - Elevation 76 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	12.84	6.42	-11.12	-763.44	-628.89	20.30
30	0.00	14.82	7.41	-12.84	-894.14	-704.35	23.45
60	0.00	12.84	6.42	-11.12	-763.44	-628.89	20.30
90	0.00	7.41	3.71	-6.42	-406.34	-422.72	11.72
120	0.00	0.00	0.00	0.00	81.46	-141.09	0.00
150	0.00	7.41	-3.71	6.42	569.26	140.54	-11.72
180	0.00	12.84	-6.42	11.12	926.35	346.71	-20.30
210	0.00	14.82	-7.41	12.84	1057.06	422.17	-23.45
240	0.00	12.84	-6.42	11.12	926.35	346.71	-20.30
270	0.00	7.41	-3.71	6.42	569.26	140.54	-11.72
300	0.00	0.00	0.00	0.00	81.46	-141.09	0.00
330	0.00	7.41	3.71	-6.42	-406.34	-422.72	11.72

Clamp Ring Assembly - Elevation 76 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.08	0.00	0.00	-0.08	-6.26	0.00	0.00
30	0.08	0.00	0.04	-0.07	-5.42	-3.13	0.00

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Clamp Ring Assembly - Elevation 76 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	0.08	0.00	0.07	-0.04	-3.13	-5.42	0.00
90	0.08	0.00	0.08	0.00	0.00	-6.26	0.00
120	0.08	0.00	0.07	0.04	3.13	-5.42	0.00
150	0.08	0.00	0.04	0.07	5.42	-3.13	0.00
180	0.08	0.00	0.00	0.08	6.26	0.00	0.00
210	0.08	0.00	-0.04	0.07	5.42	3.13	0.00
240	0.08	0.00	-0.07	0.04	3.13	5.42	0.00
270	0.08	0.00	-0.08	0.00	0.00	6.26	0.00
300	0.08	0.00	-0.07	-0.04	-3.13	5.42	0.00
330	0.08	0.00	-0.04	-0.07	-5.42	3.13	0.00

Discrete Appurtenance Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	6.42	-2604.25	-284812.29	-519.84	-34.82
30	1303.98	-2258.56	-246878.56	-142653.72	-0.46
60	2252.14	-1307.68	-142753.87	-246572.23	34.03
90	2596.84	-6.42	-338.36	-284430.50	59.40
120	2245.72	1296.57	142207.86	-246084.43	68.85
150	1292.86	2252.14	246689.63	-141808.82	59.86
180	-6.42	2604.25	285111.17	455.76	34.82
210	-1303.98	2258.56	247177.43	142589.64	0.46
240	-2252.14	1307.68	143052.75	246508.16	-34.03
270	-2596.84	6.42	637.24	284366.43	-59.40
300	-2245.72	-1296.57	-141908.98	246020.36	-68.85
330	-1292.86	-2252.14	-246390.76	141744.75	-59.86

Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
76.00	6' Solid w/Radome	180.0000	162.00	1.37	0.79	1.195	28.27	44
		Sum Weight:	162.00					

Dish Vectors - No Ice

6' Solid w/Radome - Elevation 76 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.002210	0.000000	0.000000	1186.15	0.00	0.00	0.00	-1186.15	-90019.14	-221.91	1624.78
30	0.001950	0.001050	-0.000277	1046.60	563.55	-892.03	563.55	-1046.60	-79413.58	-43052.05	987.29
60	0.001070	0.001280	-0.000002	574.29	687.00	-6.44	687.00	-574.29	-43517.84	-52433.89	1323.54
90	0.000340	0.001040	0.000390	182.48	558.19	1255.92	558.19	-182.48	-13740.69	-42644.15	1947.33
120	-0.000420	0.000890	0.000404	-225.42	477.68	1301.01	477.68	225.42	17260.18	-36525.55	1370.00
150	-0.001330	0.000700	0.000132	-713.84	375.70	425.08	375.70	713.84	54379.63	-28775.34	-255.60

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6' Solid w/Radome - Elevation 76 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
180	-0.001770	0.000000	0.000000	-949.99	0.00	0.00	0.00	949.99	72327.50	-221.91	-1301.30
210	-0.001330	-0.000700	-0.000132	-713.84	-375.70	-425.08	-375.70	713.84	54379.63	28331.52	-1700.02
240	-0.000420	-0.000890	-0.000404	-225.42	-477.68	-1301.01	-477.68	225.42	17260.18	36081.74	-1987.56
270	0.000340	-0.001040	-0.000390	182.48	-558.19	-1255.92	-558.19	-182.48	-13740.69	42200.33	-1447.40
300	0.001070	-0.001280	0.000002	574.29	-687.00	6.44	-687.00	-574.29	-43517.84	51990.08	249.78
330	0.001950	-0.001050	0.000277	1046.60	-563.55	892.03	-563.55	-1046.60	-79413.58	42608.24	1879.97

Dish Totals - No Ice

Wind Azimuth °	V _x	V _z	OTM _x	OTM _z	Torque
	lb	lb	lb-ft	lb-ft	lb-ft
0	0.00	-1186.15	-90019.14	-221.91	1624.78
30	563.55	-1046.60	-79413.58	-43052.05	987.29
60	687.00	-574.29	-43517.84	-52433.89	1323.54
90	558.19	-182.48	-13740.69	-42644.15	1947.33
120	477.68	225.42	17260.18	-36525.55	1370.00
150	375.70	713.84	54379.63	-28775.34	-255.60
180	0.00	949.99	72327.50	-221.91	-1301.30
210	-375.70	713.84	54379.63	28331.52	-1700.02
240	-477.68	225.42	17260.18	36081.74	-1987.56
270	-558.19	-182.48	-13740.69	42200.33	-1447.40
300	-687.00	-574.29	-43517.84	51990.08	249.78
330	-563.55	-1046.60	-79413.58	42608.24	1879.97

Dish Pressures - With Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
76.00	6' Solid w/Radome	180.0000	680.50	1.37	0.79	1.195	30.86	7	1.6305
		Sum	680.50						
		Weight:							

Dish Vectors - With Ice

6' Solid w/Radome - Elevation 76 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
0	0.002210	0.000000	0.000000	212.81	0.00	0.00	0.00	-212.81	-15635.75	-932.15	291.51
30	0.001950	0.001050	-0.000277	187.78	101.11	-160.04	101.11	-187.78	-13732.94	-8616.59	177.14
60	0.001070	0.001280	-0.000002	103.04	123.26	-1.16	123.26	-103.04	-7292.64	-10299.85	237.46
90	0.000340	0.001040	0.000390	32.74	100.15	225.33	100.15	-32.74	-1950.12	-8543.41	349.38
120	-0.000420	0.000890	0.000404	-40.44	85.70	233.42	85.70	40.44	3611.95	-7445.63	245.80
150	-0.001330	0.000700	0.000132	-128.07	67.41	76.27	67.41	128.07	10271.81	-6055.11	-45.86
180	-0.001770	0.000000	0.000000	-170.44	0.00	0.00	0.00	170.44	13491.96	-932.15	-233.47
210	-0.001330	-0.000700	-0.000132	-128.07	-67.41	-76.27	-67.41	128.07	10271.81	4190.82	-305.01
240	-0.000420	-0.000890	-0.000404	-40.44	-85.70	-233.42	-85.70	40.44	3611.95	5581.34	-356.60
270	0.000340	-0.001040	-0.000390	32.74	-100.15	-225.33	-100.15	-32.74	-1950.12	6679.11	-259.69
300	0.001070	-0.001280	0.000002	103.04	-123.26	1.16	-123.26	-103.04	-7292.64	8435.56	44.82
330	0.001950	-0.001050	0.000277	187.78	-101.11	160.04	-101.11	-187.78	-13732.94	6752.30	337.30

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 71 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Dish Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-212.81	-15635.75	-932.15	291.51
30	101.11	-187.78	-13732.94	-8616.59	177.14
60	123.26	-103.04	-7292.64	-10299.85	237.46
90	100.15	-32.74	-1950.12	-8543.41	349.38
120	85.70	40.44	3611.95	-7445.63	245.80
150	67.41	128.07	10271.81	-6055.11	-45.86
180	0.00	170.44	13491.96	-932.15	-233.47
210	-67.41	128.07	10271.81	4190.82	-305.01
240	-85.70	40.44	3611.95	5581.34	-356.60
270	-100.15	-32.74	-1950.12	6679.11	-259.69
300	-123.26	-103.04	-7292.64	8435.56	44.82
330	-101.11	-187.78	-13732.94	6752.30	337.30

Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
76.00	6' Solid w/Radome	180.0000	162.00	1.37	0.79	1.195	28.27	9
	Sum Weight:		162.00					

Dish Vectors - Service

6' Solid w/Radome - Elevation 76 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.002210	0.000000	0.000000	251.21	0.00	0.00	0.00	-251.21	-18964.12	-221.91	344.11
30	0.001950	0.001050	-0.000277	221.66	119.35	-188.92	119.35	-221.66	-16717.97	-9292.88	209.10
60	0.001070	0.001280	-0.000002	121.63	145.50	-1.36	145.50	-121.63	-9115.63	-11279.85	280.31
90	0.000340	0.001040	0.000390	38.65	118.22	265.99	118.22	-38.65	-2809.15	-9206.49	412.42
120	-0.000420	0.000890	0.000404	-47.74	101.17	275.54	101.17	47.74	3756.51	-7910.64	290.15
150	-0.001330	0.000700	0.000132	-151.18	79.57	90.03	79.57	151.18	11618.02	-6269.22	-54.13
180	-0.001770	0.000000	0.000000	-201.20	0.00	0.00	0.00	201.20	15419.19	-221.91	-275.60
210	-0.001330	-0.000700	-0.000132	-151.18	-79.57	-90.03	-79.57	151.18	11618.02	5825.41	-360.05
240	-0.000420	-0.000890	-0.000404	-47.74	-101.17	-275.54	-101.17	47.74	3756.51	7466.82	-420.94
270	0.000340	-0.001040	-0.000390	38.65	-118.22	-265.99	-118.22	-38.65	-2809.15	8762.67	-306.54
300	0.001070	-0.001280	0.000002	121.63	-145.50	1.36	-145.50	-121.63	-9115.63	10836.04	52.90
330	0.001950	-0.001050	0.000277	221.66	-119.35	188.92	-119.35	-221.66	-16717.97	8849.06	398.16

Dish Totals - Service

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-251.21	-18964.12	-221.91	344.11
30	119.35	-221.66	-16717.97	-9292.88	209.10
60	145.50	-121.63	-9115.63	-11279.85	280.31
90	118.22	-38.65	-2809.15	-9206.49	412.42
120	101.17	47.74	3756.51	-7910.64	290.15
150	79.57	151.18	11618.02	-6269.22	-54.13
180	0.00	201.20	15419.19	-221.91	-275.60
210	-79.57	151.18	11618.02	5825.41	-360.05
240	-101.17	47.74	3756.51	7466.82	-420.94
270	-118.22	-38.65	-2809.15	8762.67	-306.54
300	-145.50	-121.63	-9115.63	10836.04	52.90
330	-119.35	-221.66	-16717.97	8849.06	398.16

Force Totals

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M _x lb-ft	Sum of Overturning Moments, M _z lb-ft	Sum of Torques lb-ft
Leg Weight	18935.22					
Bracing Weight	0.00					
Total Member Self-Weight	18935.22			277.56	-253.95	
Total Weight	32461.12			277.56	-253.95	
Wind 0 deg - No Ice		30.31	-26110.60	-2214463.17	-2557.18	1460.37
Wind 30 deg - No Ice		13034.53	-22646.97	-1920367.68	-1106045.71	985.15
Wind 60 deg - No Ice		22257.06	-13062.76	-1107659.79	-1891266.24	1484.23
Wind 90 deg - No Ice		25447.65	-212.79	-15894.48	-2164610.12	2227.81
Wind 120 deg - No Ice		22017.43	12661.40	1077711.69	-1873054.67	1695.10
Wind 150 deg - No Ice		12794.19	22283.90	1893329.38	-1087779.68	27.02
Wind 180 deg - No Ice		-30.31	25874.45	2197070.42	2049.29	-1136.88
Wind 210 deg - No Ice		-12846.68	22314.20	1895632.61	1091261.11	-1697.87
Wind 240 deg - No Ice		-22047.74	12713.90	1081701.01	1874850.01	-2148.25
Wind 270 deg - No Ice		-25447.65	-152.18	-11288.02	2164102.22	-1727.87
Wind 300 deg - No Ice		-22226.75	-13010.27	-1103670.48	1888455.11	-75.32
Wind 330 deg - No Ice		-12982.04	-22616.66	-1918064.44	1101548.51	1597.35
Member Ice	13110.99					
Total Weight Ice	60718.07			943.54	-840.25	
Wind 0 deg - Ice		8.37	-8272.35	-705968.61	-1476.07	200.86
Wind 30 deg - Ice		4133.29	-7171.72	-611842.33	-354077.35	166.37
Wind 60 deg - Ice		7098.84	-4140.05	-352807.02	-608086.90	309.47
Wind 90 deg - Ice		8150.02	-41.11	-2180.57	-698455.56	484.87
Wind 120 deg - Ice		7052.92	4062.97	348835.80	-604596.86	408.46
Wind 150 deg - Ice		4085.10	7103.65	608556.12	-350414.61	100.39
Wind 180 deg - Ice		-8.37	8229.98	704635.55	-204.44	-142.82
Wind 210 deg - Ice		-4099.59	7112.02	609191.93	349835.37	-294.25
Wind 240 deg - Ice		-7061.28	4077.46	349937.07	603552.17	-428.61
Wind 270 deg - Ice		-8150.02	-24.37	-908.94	696775.05	-395.18
Wind 300 deg - Ice		-7090.47	-4125.56	-351705.75	605770.58	-117.85
Wind 330 deg - Ice		-4118.80	-7163.36	-611206.51	351295.58	191.05
Total Weight	32461.12			277.56	-253.95	
Wind 0 deg - Service		6.42	-5529.95	-468781.14	-741.75	309.29
Wind 30 deg - Service		2760.58	-4796.39	-406494.82	-234448.96	208.64
Wind 60 deg - Service		4713.81	-2766.56	-234371.87	-400750.38	314.34
Wind 90 deg - Service		5389.54	-45.07	-3147.51	-458641.73	471.83
Wind 120 deg - Service		4663.06	2681.55	228466.73	-396893.36	359.01
Wind 150 deg - Service		2709.67	4719.49	401205.94	-230580.41	5.72
Wind 180 deg - Service		-6.42	5479.93	465535.08	233.85	-240.78

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	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M _x lb-ft	Sum of Overturning Moments, M _z lb-ft	Sum of Torques lb-ft
Wind 210 deg - Service		-2720.79	4725.91	401693.74	230917.41	-359.59
Wind 240 deg - Service		-4669.48	2692.67	229311.62	396873.27	-454.98
Wind 270 deg - Service		-5389.54	-32.23	-2171.91	458133.83	-365.95
Wind 300 deg - Service		-4707.39	-2755.44	-233526.98	399754.69	-15.95
Wind 330 deg - Service		-2749.46	-4789.97	-406007.02	233096.18	338.30

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service

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Comb. No.	Description
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
L1	129 - 109	Pole	Max Tension	26	0.00	0.00	0.00
			Max. Compression	26	-13828.29	344.13	-198.68
			Max. Mx	20	-5610.34	161099.25	-59.26
			Max. My	14	-5600.85	93.34	-161090.95
			Max. Vy	8	13448.13	-160837.68	-56.66
			Max. Vx	2	-13453.98	82.23	160962.96
			Max. Torque	24			491.87
L2	109 - 60.8644	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39723.36	-891.04	-999.06
			Max. Mx	8	-17368.83	-	3140.12
						1159206.86	
			Max. My	2	-17281.50	-751.78	1169127.95
			Max. Vy	8	30555.09	-	3140.12
						1159206.86	
L3	60.8644 - 46.5939	Pole	Max. Vx	2	-31631.75	-751.78	1169127.95
			Max. Torque	8			-3556.82
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-45944.43	-891.04	-999.06
			Max. Mx	8	-21709.87	-	7914.00
						1599291.94	
			Max. My	2	-21634.07	-1458.89	1624155.88
L4	46.5939 - 0	Pole	Max. Vy	8	32916.92	-	7914.00
						1599291.94	
			Max. Vx	2	-33995.92	-1458.89	1624155.88
			Max. Torque	8			-3553.56
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68543.27	-891.04	-999.06
			Max. Mx	8	-38911.13	-	26078.66
						3551225.43	
			Max. My	2	-38909.04	-4068.68	3632723.26
			Max. Vy	8	40756.58	-	26078.66
						3551225.43	
			Max. Vx	2	-41818.23	-4068.68	3632723.26
					-3550.68		

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	28	68543.27	-4133.30	7171.73
	Max. H _x	20	38953.34	40716.24	243.49
	Max. H _z	2	38953.34	-48.49	41776.97
	Max. M _x	2	3632723.26	-48.49	41776.97

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Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
	Max. M _z	8	3551225.42	-40716.24	340.46
	Max. Torsion	19	3416.51	35276.38	-20342.23
	Min. Vert	11	29215.01	-35227.89	-20258.25
	Min. H _x	8	38953.34	-40716.24	340.46
	Min. H _z	14	38953.34	48.49	-41399.12
	Min. M _x	14	-3604149.02	48.49	-41399.12
	Min. M _z	20	-3550598.64	40716.24	243.49
	Min. Torsion	8	-3544.81	-40716.24	340.46

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead Only	32461.12	0.00	0.00	277.56	-253.95	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	38953.34	48.49	-41776.97	-3632723.26	-4067.93	2312.96
0.9 Dead+1.6 Wind 0 deg - No Ice	29215.01	48.49	-41776.97	-3608968.02	-3969.35	2316.07
1.2 Dead+1.6 Wind 30 deg - No Ice	38953.34	20855.25	-36235.15	-3150269.66	-1814265.08	1559.78
0.9 Dead+1.6 Wind 30 deg - No Ice	29215.01	20855.25	-36235.15	-3129684.14	-1802276.62	1561.71
1.2 Dead+1.6 Wind 60 deg - No Ice	38953.34	35611.30	-20900.42	-1817153.26	-3102582.32	2356.63
0.9 Dead+1.6 Wind 60 deg - No Ice	29215.01	35611.30	-20900.42	-1805311.90	-3082086.60	2357.09
1.2 Dead+1.6 Wind 90 deg - No Ice	38953.34	40716.24	-340.46	-26079.78	-3551225.42	3544.81
0.9 Dead+1.6 Wind 90 deg - No Ice	29215.01	40716.24	-340.46	-26024.18	-3527737.93	3543.76
1.2 Dead+1.6 Wind 120 deg - No Ice	38953.34	35227.89	20258.25	1768050.72	-3072917.46	2704.66
0.9 Dead+1.6 Wind 120 deg - No Ice	29215.01	35227.89	20258.25	1756300.93	-3052576.84	2702.28
1.2 Dead+1.6 Wind 150 deg - No Ice	38953.34	20470.70	35654.23	3105967.66	-1784481.04	55.01
0.9 Dead+1.6 Wind 150 deg - No Ice	29215.01	20470.70	35654.23	3085444.10	-1772649.94	51.83
1.2 Dead+1.6 Wind 180 deg - No Ice	38953.34	-48.49	41399.12	3604149.02	3453.43	-1797.64
0.9 Dead+1.6 Wind 180 deg - No Ice	29215.01	-48.49	41399.12	3580371.48	3512.25	-1800.69
1.2 Dead+1.6 Wind 210 deg - No Ice	38953.34	-20554.69	35702.72	3109716.69	1790370.65	-2694.67
0.9 Dead+1.6 Wind 210 deg - No Ice	29215.01	-20554.69	35702.72	3089174.16	1778663.80	-2696.71
1.2 Dead+1.6 Wind 240 deg - No Ice	38953.34	-35276.38	20342.23	1774560.11	3076043.96	-3415.98
0.9 Dead+1.6 Wind 240 deg - No Ice	29215.01	-35276.38	20342.23	1762775.82	3055843.92	-3416.51
1.2 Dead+1.6 Wind 270 deg - No Ice	38953.34	-40716.24	-243.49	-18553.40	3550598.64	-2750.67
0.9 Dead+1.6 Wind 270 deg - No Ice	29215.01	-40716.24	-243.49	-18538.84	3527271.76	-2749.52
1.2 Dead+1.6 Wind 300 deg - No Ice	38953.34	-35562.81	-20816.43	-1810637.31	3098206.33	-126.36

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
0.9 Dead+1.6 Wind 300 deg - No Ice	29215.01	-35562.81	-20816.43	-1798832.20	3077890.22	-123.71
1.2 Dead+1.6 Wind 330 deg - No Ice	38953.34	-20771.26	-36186.66	-3146510.99	1807139.22	2530.37
0.9 Dead+1.6 Wind 330 deg - No Ice	29215.01	-20771.26	-36186.66	-3125947.00	1795343.24	2533.85
1.2 Dead+1.0 Ice+1.0 Temp	68543.27	0.00	0.00	999.06	-891.04	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	68543.27	8.37	-8272.36	-745571.89	-1619.73	194.44
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	68543.27	4133.30	-7171.73	-646146.19	-374057.65	162.09
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	68543.27	7098.85	-4140.06	-372549.13	-642404.88	308.37
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	68543.27	8150.03	-41.11	-2174.67	-737905.57	487.24
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	68543.27	7052.93	4062.97	368607.90	-638759.73	413.78
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	68543.27	4085.11	7103.66	642921.51	-370231.71	107.24
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	68543.27	-8.37	8229.99	744387.68	-291.34	-136.36
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	68543.27	-4099.60	7112.03	643585.71	369470.90	-289.94
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	68543.27	-7061.29	4077.46	369758.52	637512.59	-427.55
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	68543.27	-8150.03	-24.37	-846.03	735994.35	-397.60
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	68543.27	-7090.48	-4125.56	-371398.58	639829.55	-123.18
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	68543.27	-4118.81	-7163.37	-645481.91	370996.18	184.20
Dead+Wind 0 deg - Service	32461.12	6.42	-5529.95	-479023.99	-757.43	308.02
Dead+Wind 30 deg - Service	32461.12	2760.58	-4796.39	-415373.99	-239576.35	207.84
Dead+Wind 60 deg - Service	32461.12	4713.81	-2766.56	-239490.75	-409534.86	314.17
Dead+Wind 90 deg - Service	32461.12	5389.54	-45.07	-3198.88	-468712.04	472.32
Dead+Wind 120 deg - Service	32461.12	4663.06	2681.55	233490.04	-405609.58	360.11
Dead+Wind 150 deg - Service	32461.12	2709.67	4719.49	410000.75	-235639.21	7.13
Dead+Wind 180 deg - Service	32461.12	-6.42	5479.94	475729.85	235.48	-239.50
Dead+Wind 210 deg - Service	32461.12	-2720.79	4725.91	410497.14	235977.08	-358.80
Dead+Wind 240 deg - Service	32461.12	-4669.48	2692.67	234349.92	405583.91	-454.85
Dead+Wind 270 deg - Service	32461.12	-5389.54	-32.23	-2205.90	468189.91	-366.48
Dead+Wind 300 deg - Service	32461.12	-4707.39	-2755.44	-238630.77	408516.33	-17.06
Dead+Wind 330 deg - Service	32461.12	-2749.46	-4789.97	-414877.45	238194.49	336.90

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-32461.12	0.00	0.00	32461.12	0.00	0.000%
2	48.49	-38953.34	-41776.97	-48.49	38953.34	41776.97	0.000%
3	48.49	-29215.01	-41776.97	-48.49	29215.01	41776.97	0.000%
4	20855.25	-38953.34	-36235.15	-20855.25	38953.34	36235.15	0.000%
5	20855.25	-29215.01	-36235.15	-20855.25	29215.01	36235.15	0.000%
6	35611.30	-38953.34	-20900.42	-35611.30	38953.34	20900.42	0.000%
7	35611.30	-29215.01	-20900.42	-35611.30	29215.01	20900.42	0.000%
8	40716.24	-38953.34	-340.46	-40716.24	38953.34	340.46	0.000%
9	40716.24	-29215.01	-340.46	-40716.24	29215.01	340.46	0.000%

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	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
10	35227.89	-38953.34	20258.25	-35227.89	38953.34	-20258.25	0.000%
11	35227.89	-29215.01	20258.25	-35227.89	29215.01	-20258.25	0.000%
12	20470.70	-38953.34	35654.23	-20470.70	38953.34	-35654.23	0.000%
13	20470.70	-29215.01	35654.23	-20470.70	29215.01	-35654.23	0.000%
14	-48.49	-38953.34	41399.12	48.49	38953.34	-41399.12	0.000%
15	-48.49	-29215.01	41399.12	48.49	29215.01	-41399.12	0.000%
16	-20554.69	-38953.34	35702.72	20554.69	38953.34	-35702.72	0.000%
17	-20554.69	-29215.01	35702.72	20554.69	29215.01	-35702.72	0.000%
18	-35276.38	-38953.34	20342.23	35276.38	38953.34	-20342.23	0.000%
19	-35276.38	-29215.01	20342.23	35276.38	29215.01	-20342.23	0.000%
20	-40716.24	-38953.34	-243.49	40716.24	38953.34	243.49	0.000%
21	-40716.24	-29215.01	-243.49	40716.24	29215.01	243.49	0.000%
22	-35562.81	-38953.34	-20816.43	35562.81	38953.34	20816.43	0.000%
23	-35562.81	-29215.01	-20816.43	35562.81	29215.01	20816.43	0.000%
24	-20771.26	-38953.34	-36186.66	20771.26	38953.34	36186.66	0.000%
25	-20771.26	-29215.01	-36186.66	20771.26	29215.01	36186.66	0.000%
26	0.00	-68543.27	0.00	0.00	68543.27	0.00	0.000%
27	8.37	-68543.27	-8272.35	-8.37	68543.27	8272.36	0.000%
28	4133.29	-68543.27	-7171.72	-4133.30	68543.27	7171.73	0.000%
29	7098.84	-68543.27	-4140.05	-7098.85	68543.27	4140.06	0.000%
30	8150.02	-68543.27	-41.11	-8150.03	68543.27	41.11	0.000%
31	7052.92	-68543.27	4062.97	-7052.93	68543.27	-4062.97	0.000%
32	4085.10	-68543.27	7103.65	-4085.11	68543.27	-7103.66	0.000%
33	-8.37	-68543.27	8229.98	8.37	68543.27	-8229.99	0.000%
34	-4099.59	-68543.27	7112.02	4099.60	68543.27	-7112.03	0.000%
35	-7061.28	-68543.27	4077.46	7061.29	68543.27	-4077.46	0.000%
36	-8150.02	-68543.27	-24.37	8150.03	68543.27	24.37	0.000%
37	-7090.47	-68543.27	-4125.56	7090.48	68543.27	4125.56	0.000%
38	-4118.80	-68543.27	-7163.36	4118.81	68543.27	7163.37	0.000%
39	6.42	-32461.12	-5529.95	-6.42	32461.12	5529.95	0.000%
40	2760.58	-32461.12	-4796.39	-2760.58	32461.12	4796.39	0.000%
41	4713.81	-32461.12	-2766.56	-4713.81	32461.12	2766.56	0.000%
42	5389.54	-32461.12	-45.07	-5389.54	32461.12	45.07	0.000%
43	4663.06	-32461.12	2681.55	-4663.06	32461.12	-2681.55	0.000%
44	2709.67	-32461.12	4719.49	-2709.67	32461.12	-4719.49	0.000%
45	-6.42	-32461.12	5479.93	6.42	32461.12	-5479.94	0.000%
46	-2720.79	-32461.12	4725.91	2720.79	32461.12	-4725.91	0.000%
47	-4669.48	-32461.12	2692.67	4669.48	32461.12	-2692.67	0.000%
48	-5389.54	-32461.12	-32.23	5389.54	32461.12	32.23	0.000%
49	-4707.39	-32461.12	-2755.44	4707.39	32461.12	2755.44	0.000%
50	-2749.46	-32461.12	-4789.97	2749.46	32461.12	4789.97	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00066326
3	Yes	4	0.00000001	0.00038919
4	Yes	5	0.00000001	0.00044772
5	Yes	5	0.00000001	0.00018023
6	Yes	5	0.00000001	0.00042739
7	Yes	5	0.00000001	0.00017154
8	Yes	4	0.00000001	0.00097483
9	Yes	4	0.00000001	0.00057822
10	Yes	5	0.00000001	0.00044776

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11	Yes	5	0.0000001	0.00018198
12	Yes	5	0.0000001	0.00043109
13	Yes	5	0.0000001	0.00017373
14	Yes	4	0.0000001	0.00046068
15	Yes	4	0.0000001	0.00026764
16	Yes	5	0.0000001	0.00042401
17	Yes	5	0.0000001	0.00017032
18	Yes	5	0.0000001	0.00044996
19	Yes	5	0.0000001	0.00018288
20	Yes	4	0.0000001	0.00079874
21	Yes	4	0.0000001	0.00047191
22	Yes	5	0.0000001	0.00043414
23	Yes	5	0.0000001	0.00017481
24	Yes	5	0.0000001	0.00043075
25	Yes	5	0.0000001	0.00017265
26	Yes	4	0.0000001	0.00000001
27	Yes	5	0.0000001	0.00020599
28	Yes	5	0.0000001	0.00023910
29	Yes	5	0.0000001	0.00023745
30	Yes	5	0.0000001	0.00020511
31	Yes	5	0.0000001	0.00023792
32	Yes	5	0.0000001	0.00023772
33	Yes	5	0.0000001	0.00020633
34	Yes	5	0.0000001	0.00023762
35	Yes	5	0.0000001	0.00023735
36	Yes	5	0.0000001	0.00020441
37	Yes	5	0.0000001	0.00023642
38	Yes	5	0.0000001	0.00023802
39	Yes	4	0.0000001	0.00003186
40	Yes	4	0.0000001	0.00008313
41	Yes	4	0.0000001	0.00007283
42	Yes	4	0.0000001	0.00004079
43	Yes	4	0.0000001	0.00008851
44	Yes	4	0.0000001	0.00007496
45	Yes	4	0.0000001	0.00002974
46	Yes	4	0.0000001	0.00007242
47	Yes	4	0.0000001	0.00008980
48	Yes	4	0.0000001	0.00003629
49	Yes	4	0.0000001	0.00007519
50	Yes	4	0.0000001	0.00007442

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	129 - 109	10.153	40	0.6273	0.0014
L2	109 - 60.8644	7.556	40	0.6019	0.0012
L3	66.5939 - 46.5939	2.981	40	0.3961	0.0008
L4	52.7354 - 0	1.914	40	0.3286	0.0006

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
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Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
129.00	10' Lightning Rod	40	10.153	0.6273	0.0014	72963
126.00	Panel-72x12x9	40	9.757	0.6255	0.0014	72963
116.00	Panel-72x12x9	40	8.449	0.6158	0.0013	28062
108.00	10' Whip	40	7.431	0.5992	0.0012	18133
106.00	(2) AIR-21	40	7.183	0.5932	0.0012	17279
98.00	(2) RRUS-11	40	6.218	0.5626	0.0012	15074
96.00	Panel-72x12x9	40	5.984	0.5536	0.0011	14611
88.00	(2) RRUS-11	40	5.083	0.5133	0.0011	13008
86.00	Panel-72x12x9	40	4.867	0.5025	0.0011	12658
76.00	6' Solid w/Radome	40	3.845	0.4468	0.0009	11158

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	129 - 109	76.953	4	4.7638	0.0100
L2	109 - 60.8644	57.276	4	4.5688	0.0089
L3	66.5939 - 46.5939	22.603	4	3.0055	0.0061
L4	52.7354 - 0	14.517	4	2.4931	0.0045

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
129.00	10' Lightning Rod	4	76.953	4.7638	0.0100	9806
126.00	Panel-72x12x9	4	73.954	4.7494	0.0098	9806
116.00	Panel-72x12x9	4	64.040	4.6750	0.0092	3770
108.00	10' Whip	4	56.327	4.5482	0.0088	2433
106.00	(2) AIR-21	4	54.445	4.5026	0.0087	2317
98.00	(2) RRUS-11	4	47.133	4.2696	0.0083	2015
96.00	Panel-72x12x9	4	45.363	4.2008	0.0082	1952
88.00	(2) RRUS-11	4	38.538	3.8950	0.0078	1733
86.00	Panel-72x12x9	4	36.900	3.8131	0.0076	1686
76.00	6' Solid w/Radome	4	29.151	3.3902	0.0070	1483

Base Plate Design Data

Plate Thickness	Number of Anchor Bolts	Anchor Bolt Size	Actual Allowable Ratio Bolt Tension lb	Actual Allowable Ratio Bolt Compression lb	Actual Allowable Ratio Plate Stress ksi	Actual Allowable Ratio Stiffener Stress ksi	Controlling Condition	Ratio
in		in						
2.5000	14	2.2500	191645.61	197204.03	35.721		Bolt T	0.86
			223654.40	371266.30	45.000			
			0.86	0.53	0.79			

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Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	129 - 128	TP29.876x24.976x0.1875	20.00	0.00	0.0	14.8980	-453.86	1014010.00	0.000
	128 - 127					15.0438	-525.24	1020270.00	0.001
	127 - 126					15.1897	-597.19	1026460.00	0.001
	126 - 125					15.3355	-2497.01	1032580.00	0.002
	125 - 124					15.4813	-2570.30	1038630.00	0.002
	124 - 123					15.6271	-2644.30	1044610.00	0.003
	123 - 122					15.7729	-2719.02	1050520.00	0.003
	122 - 121					15.9187	-2794.46	1056350.00	0.003
	121 - 120					16.0645	-2870.62	1062120.00	0.003
	120 - 119					16.2103	-2947.51	1067810.00	0.003
	119 - 118					16.3561	-3025.13	1073430.00	0.003
	118 - 117					16.5019	-3103.48	1078980.00	0.003
	117 - 116					16.6477	-3182.57	1084470.00	0.003
	116 - 115					16.7935	-5103.37	1089880.00	0.005
	115 - 114					16.9393	-5179.13	1095210.00	0.005
	114 - 113					17.0851	-5262.00	1100480.00	0.005
	113 - 112					17.2309	-5345.89	1105680.00	0.005
	112 - 111					17.3767	-5430.79	1110810.00	0.005
	111 - 110					17.5225	-5516.70	1115860.00	0.005
110 - 109	17.6683	-5603.62	1120840.00	0.005					
L2	109 - 106.768	TP41.6692x29.876x0.25	48.14	0.00	0.0	23.9421	-6484.02	1686760.00	0.004
	106.768 - 104.536					24.3760	-7662.50	1707400.00	0.004
	104.536 - 102.304					24.8099	-8011.63	1727680.00	0.005
	102.304 - 100.072					25.2438	-8367.03	1747610.00	0.005
	100.072 - 97.8405					25.6777	-9177.98	1767180.00	0.005
	97.8405 - 95.6086					26.1116	-10191.20	1786410.00	0.006
	95.6086 - 93.3767					26.5455	-10569.50	1805270.00	0.006
	93.3767 - 91.1448					26.9794	-10954.60	1823790.00	0.006
	91.1448 - 88.9129					27.4133	-11346.40	1841950.00	0.006
	88.9129 - 86.681					27.8472	-12199.30	1859760.00	0.007
	86.681 - 84.4491					28.2811	-13259.50	1877210.00	0.007
	84.4491 - 82.2172					28.7150	-13676.70	1894310.00	0.007
	82.2172 - 79.9853					29.1489	-14101.00	1911050.00	0.007
	79.9853 - 77.7534					29.5828	-14532.50	1927450.00	0.008
	77.7534 - 75.5215					30.0167	-15476.10	1943490.00	0.008

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	75.5215 - 73.2896					30.4506	-15888.50	1959170.00	0.008
	73.2896 - 71.0577					30.8845	-16344.80	1974500.00	0.008
	71.0577 - 68.8258					31.3184	-16808.20	1989480.00	0.008
	68.8258 - 66.5939					31.7523	-17278.70	2004110.00	0.009
	66.5939 - 60.8644					32.8661	-8773.72	2040030.00	0.004
L3	66.5939 - 60.8644	TP44.6654x39.7655x0.3125	20.00	0.00	0.0	40.5247	-10668.00	2779160.00	0.004
	60.8644 - 59.8483					40.7716	-19734.10	2790040.00	0.007
	59.8483 - 58.8321					41.0186	-20000.60	2800850.00	0.007
	58.8321 - 57.816					41.2655	-20268.70	2811590.00	0.007
	57.816 - 56.7999					41.5124	-20538.30	2822250.00	0.007
	56.7999 - 55.7838					41.7594	-20809.40	2832840.00	0.007
	55.7838 - 54.7676					42.0063	-21082.00	2843360.00	0.007
	54.7676 - 53.7515					42.2532	-21356.10	2853800.00	0.007
	53.7515 - 52.7354					42.5001	-21631.60	2864170.00	0.008
	52.7354 - 46.5939					43.9926	-12362.00	2925290.00	0.004
L4	52.7354 - 46.5939	TP55.4559x42.5358x0.3125	52.74	0.00	0.0	43.3727	-12022.80	2900230.00	0.004
	46.5939 - 44.1416					43.9686	-25082.40	2924330.00	0.009
	44.1416 - 41.6893					44.5645	-25780.00	2948000.00	0.009
	41.6893 - 39.237					45.1605	-26486.20	2971250.00	0.009
	39.237 - 36.7847					45.7564	-27200.90	2994060.00	0.009
	36.7847 - 34.3323					46.3523	-27924.20	3016460.00	0.009
	34.3323 - 31.88					46.9483	-28655.90	3038420.00	0.009
	31.88 - 29.4277					47.5442	-29396.00	3059960.00	0.010
	29.4277 - 26.9754					48.1401	-30144.40	3081070.00	0.010
	26.9754 - 24.5231					48.7361	-30901.00	3101760.00	0.010
	24.5231 - 22.0708					49.3320	-31665.80	3122010.00	0.010
	22.0708 - 19.6185					49.9279	-32438.80	3141840.00	0.010
	19.6185 - 17.1662					50.5239	-33219.90	3161250.00	0.011
	17.1662 - 14.7139					51.1198	-34008.90	3180220.00	0.011
	14.7139 - 12.2616					51.7157	-34806.00	3198770.00	0.011

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 82 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	12.2616 - 9.80924					52.3117	-35610.90	3216900.00	0.011
	9.80924 - 7.35693					52.9076	-36423.70	3234590.00	0.011
	7.35693 - 4.90462					53.5035	-37244.40	3251860.00	0.011
	4.90462 - 2.45231					54.0995	-38072.80	3268710.00	0.012
	2.45231 - 0					54.6954	-38909.00	3285120.00	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} lb-ft	φM _{ux} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} lb-ft	φM _{uy} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	129 - 128	TP29.876x24.976x0.1875	2007.69	522173.33	0.004	0.00	522173.33	0.000
	128 - 127		2690.26	530578.33	0.005	0.00	530578.33	0.000
	127 - 126		3498.77	539009.17	0.006	0.00	539009.17	0.000
	126 - 125		9607.00	547465.83	0.018	0.00	547465.83	0.000
	125 - 124		15843.42	555945.83	0.028	0.00	555945.83	0.000
	124 - 123		22209.25	564450.00	0.039	0.00	564450.00	0.000
	123 - 122		28705.58	572975.00	0.050	0.00	572975.00	0.000
	122 - 121		35333.58	581521.67	0.061	0.00	581521.67	0.000
	121 - 120		42094.33	590088.33	0.071	0.00	590088.33	0.000
	120 - 119		48989.08	598673.33	0.082	0.00	598673.33	0.000
	119 - 118		56018.75	607275.83	0.092	0.00	607275.83	0.000
	118 - 117		63184.67	615895.00	0.103	0.00	615895.00	0.000
	117 - 116		70487.75	624530.00	0.113	0.00	624530.00	0.000
	116 - 115		83013.33	633179.17	0.131	0.00	633179.17	0.000
	115 - 114		95676.67	641841.67	0.149	0.00	641841.67	0.000
	114 - 113		108484.17	650516.67	0.167	0.00	650516.67	0.000
	L2		113 - 112	TP41.6692x29.876x0.25	121432.50	659202.50	0.184	0.00
112 - 111		134522.50	667898.33		0.201	0.00	667898.33	0.000
111 - 110		147755.83	676603.33		0.218	0.00	676603.33	0.000
110 - 109		161132.50	685316.67		0.235	0.00	685316.67	0.000
109 - 106.768		192765.00	1046108.33		0.184	0.00	1046108.33	0.000
106.768 - 104.536		228151.67	1078258.33		0.212	0.00	1078258.33	0.000
104.536 - 102.304		266244.17	1110641.67		0.240	0.00	1110641.67	0.000
102.304 - 100.072		305088.33	1143258.33		0.267	0.00	1143258.33	0.000
100.072 - 97.8405		344894.17	1176091.67		0.293	0.00	1176091.67	0.000
97.8405 - 95.6086		388930.83	1209125.00		0.322	0.00	1209125.00	0.000
95.6086 - 93.3767		437639.17	1242358.33		0.352	0.00	1242358.33	0.000
93.3767 - 91.1448		487119.17	1275766.67		0.382	0.00	1275766.67	0.000
91.1448 - 88.9129	537376.67	1309341.67	0.410	0.00	1309341.67	0.000		
88.9129 - 86.681	590055.83	1343075.00	0.439	0.00	1343075.00	0.000		
86.681 - 84.4491	647873.33	1376950.00	0.471	0.00	1376950.00	0.000		

<p>tnxTower</p> <p>Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860</p>	<p>Job SO15543/SO21571; Tower 147997; Foundation 147998</p>	<p>Page 83 of 89</p>
	<p>Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT</p>	<p>Date 14:07:08 12/22/14</p>
	<p>Client Bay Communications, LLC</p>	<p>Designed by Tony2 tnxTower 6.1.2.0</p>

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{rx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} lb-ft	ϕM_{ry} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
	84.4491 - 82.2172		707895.00	1410958.33	0.502	0.00	1410958.33	0.000
	82.2172 - 79.9853		768710.83	1445091.67	0.532	0.00	1445091.67	0.000
	79.9853 - 77.7534		830323.33	1479325.00	0.561	0.00	1479325.00	0.000
	77.7534 - 75.5215		893733.33	1513658.33	0.590	0.00	1513658.33	0.000
	75.5215 - 73.2896		961416.67	1548083.33	0.621	0.00	1548083.33	0.000
	73.2896 - 71.0577		1030008.33	1582566.67	0.651	0.00	1582566.67	0.000
	71.0577 - 68.8258		1099416.67	1617116.67	0.680	0.00	1617116.67	0.000
	68.8258 - 66.5939		1169641.67	1651716.67	0.708	0.00	1651716.67	0.000
	66.5939 - 60.8644		615994.17	1740675.00	0.354	0.00	1740675.00	0.000
L3	66.5939 - 60.8644	TP44.6654x39.7655x0.3125	737971.67	2335391.67	0.316	0.00	2335391.67	0.000
	60.8644 - 59.8483		1387275.00	2358933.33	0.588	0.00	2358933.33	0.000
	59.8483 - 58.8321		1420750.00	2382525.00	0.596	0.00	2382525.00	0.000
	58.8321 - 57.816		1454391.67	2406158.33	0.604	0.00	2406158.33	0.000
	57.816 - 56.7999		1488191.67	2429850.00	0.612	0.00	2429850.00	0.000
	56.7999 - 55.7838		1522175.00	2453575.00	0.620	0.00	2453575.00	0.000
	55.7838 - 54.7676		1556316.67	2477358.33	0.628	0.00	2477358.33	0.000
	54.7676 - 53.7515		1590625.00	2501175.00	0.636	0.00	2501175.00	0.000
	53.7515 - 52.7354		1625108.33	2525041.67	0.644	0.00	2525041.67	0.000
	52.7354 - 46.5939		938891.67	2670141.67	0.352	0.00	2670141.67	0.000
L4	52.7354 - 46.5939	TP55.4559x42.5358x0.3125	898591.67	2609700.00	0.344	0.00	2609700.00	0.000
	46.5939 - 44.1416		1924141.67	2667800.00	0.721	0.00	2667800.00	0.000
	44.1416 - 41.6893		2011741.67	2726100.00	0.738	0.00	2726100.00	0.000
	41.6893 - 39.237		2100258.33	2784591.67	0.754	0.00	2784591.67	0.000
	39.237 - 36.7847		2189691.67	2843258.33	0.770	0.00	2843258.33	0.000
	36.7847 - 34.3323		2280041.67	2902083.33	0.786	0.00	2902083.33	0.000
	34.3323 - 31.88		2371283.33	2961050.00	0.801	0.00	2961050.00	0.000
	31.88 - 29.4277		2463416.67	3020133.33	0.816	0.00	3020133.33	0.000
	29.4277 - 26.9754		2556441.67	3079333.33	0.830	0.00	3079333.33	0.000
	26.9754 - 24.5231		2650333.33	3138633.33	0.844	0.00	3138633.33	0.000
	24.5231 - 22.0708		2745091.67	3198000.00	0.858	0.00	3198000.00	0.000

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	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{rx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} lb-ft	ϕM_{ry} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
	22.0708 - 19.6185		2840700.00	3257433.33	0.872	0.00	3257433.33	0.000
	19.6185 - 17.1662		2937158.33	3316916.67	0.886	0.00	3316916.67	0.000
	17.1662 - 14.7139		3034458.33	3376425.00	0.899	0.00	3376425.00	0.000
	14.7139 - 12.2616		3132591.67	3435950.00	0.912	0.00	3435950.00	0.000
	12.2616 - 9.80924		3231533.33	3495466.67	0.924	0.00	3495466.67	0.000
	9.80924 - 7.35693		3331291.67	3554975.00	0.937	0.00	3554975.00	0.000
	7.35693 - 4.90462		3431858.33	3614441.67	0.949	0.00	3614441.67	0.000
	4.90462 - 2.45231		3533208.33	3673866.67	0.962	0.00	3673866.67	0.000
	2.45231 - 0		3635350.00	3733216.67	0.974	0.00	3733216.67	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	129 - 128	TP29.876x24.976x0.1875	620.39	507005.00	0.001	0.03	1045625.00	0.000
	128 - 127		745.74	510135.00	0.001	0.03	1062450.00	0.000
	127 - 126		872.29	513231.00	0.002	0.03	1079333.33	0.000
	126 - 125		6172.59	516291.00	0.012	0.03	1096266.67	0.000
	125 - 124		6301.45	519315.00	0.012	0.03	1113250.00	0.000
	124 - 123		6431.44	522304.00	0.012	0.03	1130283.33	0.000
	123 - 122		6562.57	525258.00	0.012	0.03	1147350.00	0.000
	122 - 121		6694.83	528175.00	0.013	0.03	1164466.67	0.000
	121 - 120		6828.21	531058.00	0.013	0.03	1181616.67	0.000
	120 - 119		6962.73	533905.00	0.013	0.03	1198808.33	0.000
	119 - 118		7098.36	536716.00	0.013	0.03	1216033.33	0.000
	118 - 117		7235.11	539492.00	0.013	0.03	1233300.00	0.000
	117 - 116		7372.98	542233.00	0.014	0.03	1250583.33	0.000
	116 - 115		12596.00	544938.00	0.023	0.02	1267908.33	0.000
	115 - 114		12738.20	547607.00	0.023	245.91	1285250.00	0.000
	114 - 113		12878.80	550241.00	0.023	245.91	1302625.00	0.000
	113 - 112		13020.40	552840.00	0.024	245.91	1320016.67	0.000
	112 - 111		13163.10	555403.00	0.024	245.91	1337433.33	0.000
	111 - 110		13306.70	557930.00	0.024	245.92	1354858.33	0.000
	110 - 109		13451.30	560422.00	0.024	245.92	1372308.33	0.000
L2	109 - 106.768	TP41.6692x29.876x0.25	14018.50	843382.00	0.017	245.93	2094783.33	0.000
	106.768 - 104.536		16903.20	853699.00	0.020	186.34	2159158.33	0.000
	104.536 - 102.304		17239.10	863841.00	0.020	186.34	2224008.33	0.000
	102.304 - 100.072		17577.80	873805.00	0.020	186.38	2289316.67	0.000
	100.072 - 97.8405		19192.10	883592.00	0.022	186.43	2355058.33	0.000
	97.8405 - 95.6086		21657.40	893203.00	0.024	186.50	2421216.67	0.000
	95.6086 - 93.3767		22002.90	902637.00	0.024	186.57	2487750.00	0.000

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Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
	93.3767 - 91.1448		22350.80	911894.00	0.025	186.65	2554650.00	0.000
	91.1448 - 88.9129		22700.90	920974.00	0.025	186.75	2621883.33	0.000
	88.9129 - 86.681		24298.00	929878.00	0.026	425.86	2689433.33	0.000
	86.681 - 84.4491		26726.30	938604.00	0.028	551.73	2757266.67	0.000
	84.4491 - 82.2172		27081.50	947154.00	0.029	551.82	2825375.00	0.000
	82.2172 - 79.9853		27438.60	955527.00	0.029	551.96	2893716.67	0.000
	79.9853 - 77.7534		27797.60	963724.00	0.029	552.13	2962275.00	0.000
	77.7534 - 75.5215		29791.70	971743.00	0.031	1804.11	3031025.00	0.001
	75.5215 - 73.2896		30568.10	979586.00	0.031	1565.08	3099941.67	0.001
	73.2896 - 71.0577		30931.60	987251.00	0.031	1564.83	3169008.33	0.000
	71.0577 - 68.8258		31296.80	994740.00	0.031	1564.56	3238191.67	0.000
	68.8258 - 66.5939		31663.60	1002050.00	0.032	1564.29	3307475.00	0.000
	66.5939 - 60.8644		15154.70	1020010.00	0.015	711.23	3485600.00	0.000
L3	66.5939 - 60.8644	TP44.6654x39.7655x0.3125	17567.20	1389580.00	0.013	852.70	4676500.00	0.000
	60.8644 - 59.8483		32869.50	1395020.00	0.024	1563.80	4723633.33	0.000
	59.8483 - 58.8321		33033.30	1400430.00	0.024	1563.69	4770875.00	0.000
	58.8321 - 57.816		33197.70	1405790.00	0.024	1563.58	4818208.33	0.000
	57.816 - 56.7999		33362.60	1411130.00	0.024	1563.47	4865633.33	0.000
	56.7999 - 55.7838		33528.10	1416420.00	0.024	1563.37	4913158.33	0.000
	55.7838 - 54.7676		33694.10	1421680.00	0.024	1563.26	4960775.00	0.000
	54.7676 - 53.7515		33860.70	1426900.00	0.024	1563.15	5008475.00	0.000
	53.7515 - 52.7354		34027.80	1432090.00	0.024	1563.05	5056266.67	0.000
	52.7354 - 46.5939		18236.70	1462640.00	0.012	798.30	5346816.67	0.000
L4	52.7354 - 46.5939	TP55.4559x42.5358x0.3125	16940.90	1450110.00	0.012	764.45	5225783.33	0.000
	46.5939 - 44.1416		35555.40	1462160.00	0.024	1562.51	5342125.00	0.000
	44.1416 - 41.6893		35935.70	1474000.00	0.024	1562.24	5458866.67	0.000
	41.6893 - 39.237		36312.40	1485620.00	0.024	1561.99	5576000.00	0.000
	39.237 - 36.7847		36685.60	1497030.00	0.025	1561.74	5693474.67	0.000
	36.7847 - 34.3323		37055.20	1508230.00	0.025	1561.52	5811258.00	0.000
	34.3323 - 31.88		37421.20	1519210.00	0.025	1561.29	5929333.33	0.000

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Project	NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date	14:07:08 12/22/14
Client	Bay Communications, LLC	Designed by	Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
	31.88 - 29.4277		37783.70	1529980.00	0.025	1561.08	6047658.00	0.000
	29.4277 - 26.9754		38142.50	1540540.00	0.025	1560.89	6166208.00	0.000
	26.9754 - 24.5231		38497.70	1550880.00	0.025	1560.71	6284933.33	0.000
	24.5231 - 22.0708		38849.40	1561010.00	0.025	1560.54	6403824.67	0.000
	22.0708 - 19.6185		39197.30	1570920.00	0.025	1560.39	6522841.33	0.000
	19.6185 - 17.1662		39541.70	1580620.00	0.025	1560.26	6641941.33	0.000
	17.1662 - 14.7139		39882.40	1590110.00	0.025	1560.13	6761108.00	0.000
	14.7139 - 12.2616		40219.40	1599390.00	0.025	1560.03	6880300.00	0.000
	12.2616 - 9.80924		40552.80	1608450.00	0.025	1559.95	6999491.33	0.000
	9.80924 - 7.35693		40882.50	1617300.00	0.025	1559.88	7118641.33	0.000
	7.35693 - 4.90462		41208.50	1625930.00	0.025	1559.83	7237724.67	0.000
	4.90462 - 2.45231		41530.90	1634350.00	0.025	1559.79	7356716.67	0.000
	2.45231 - 0		41849.50	1642560.00	0.025	1559.78	7475566.67	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	129 - 128	0.000	0.004	0.000	0.001	0.000	0.004 ✓	1.000	4.8.2 ✓
	128 - 127	0.001	0.005	0.000	0.001	0.000	0.006 ✓	1.000	4.8.2 ✓
	127 - 126	0.001	0.006	0.000	0.002	0.000	0.007 ✓	1.000	4.8.2 ✓
	126 - 125	0.002	0.018	0.000	0.012	0.000	0.020 ✓	1.000	4.8.2 ✓
	125 - 124	0.002	0.028	0.000	0.012	0.000	0.031 ✓	1.000	4.8.2 ✓
	124 - 123	0.003	0.039	0.000	0.012	0.000	0.042 ✓	1.000	4.8.2 ✓
	123 - 122	0.003	0.050	0.000	0.012	0.000	0.053 ✓	1.000	4.8.2 ✓
	122 - 121	0.003	0.061	0.000	0.013	0.000	0.064 ✓	1.000	4.8.2 ✓
	121 - 120	0.003	0.071	0.000	0.013	0.000	0.074 ✓	1.000	4.8.2 ✓
	120 - 119	0.003	0.082	0.000	0.013	0.000	0.085 ✓	1.000	4.8.2 ✓
	119 - 118	0.003	0.092	0.000	0.013	0.000	0.095 ✓	1.000	4.8.2 ✓
	118 - 117	0.003	0.103	0.000	0.013	0.000	0.106 ✓	1.000	4.8.2 ✓
	117 - 116	0.003	0.113	0.000	0.014	0.000	0.116 ✓	1.000	4.8.2 ✓
	116 - 115	0.005	0.131	0.000	0.023	0.000	0.136 ✓	1.000	4.8.2 ✓
	115 - 114	0.005	0.149	0.000	0.023	0.000	0.154 ✓	1.000	4.8.2 ✓
	114 - 113	0.005	0.167	0.000	0.023	0.000	0.172 ✓	1.000	4.8.2 ✓

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Project	NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date	14:07:08 12/22/14
Client	Bay Communications, LLC	Designed by	Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
	113 - 112	0.005	0.184	0.000	0.024	0.000	0.190 ✓	1.000	4.8.2 ✓
	112 - 111	0.005	0.201	0.000	0.024	0.000	0.207 ✓	1.000	4.8.2 ✓
	111 - 110	0.005	0.218	0.000	0.024	0.000	0.224 ✓	1.000	4.8.2 ✓
	110 - 109	0.005	0.235	0.000	0.024	0.000	0.241 ✓	1.000	4.8.2 ✓
L2	109 - 106.768	0.004	0.184	0.000	0.017	0.000	0.188 ✓	1.000	4.8.2 ✓
	106.768 - 104.536	0.004	0.212	0.000	0.020	0.000	0.216 ✓	1.000	4.8.2 ✓
	104.536 - 102.304	0.005	0.240	0.000	0.020	0.000	0.245 ✓	1.000	4.8.2 ✓
	102.304 - 100.072	0.005	0.267	0.000	0.020	0.000	0.272 ✓	1.000	4.8.2 ✓
	100.072 - 97.8405	0.005	0.293	0.000	0.022	0.000	0.299 ✓	1.000	4.8.2 ✓
	97.8405 - 95.6086	0.006	0.322	0.000	0.024	0.000	0.328 ✓	1.000	4.8.2 ✓
	95.6086 - 93.3767	0.006	0.352	0.000	0.024	0.000	0.359 ✓	1.000	4.8.2 ✓
	93.3767 - 91.1448	0.006	0.382	0.000	0.025	0.000	0.388 ✓	1.000	4.8.2 ✓
	91.1448 - 88.9129	0.006	0.410	0.000	0.025	0.000	0.417 ✓	1.000	4.8.2 ✓
	88.9129 - 86.681	0.007	0.439	0.000	0.026	0.000	0.447 ✓	1.000	4.8.2 ✓
	86.681 - 84.4491	0.007	0.471	0.000	0.028	0.000	0.478 ✓	1.000	4.8.2 ✓
	84.4491 - 82.2172	0.007	0.502	0.000	0.029	0.000	0.510 ✓	1.000	4.8.2 ✓
	82.2172 - 79.9853	0.007	0.532	0.000	0.029	0.000	0.540 ✓	1.000	4.8.2 ✓
	79.9853 - 77.7534	0.008	0.561	0.000	0.029	0.000	0.570 ✓	1.000	4.8.2 ✓
	77.7534 - 75.5215	0.008	0.590	0.000	0.031	0.001	0.599 ✓	1.000	4.8.2 ✓
	75.5215 - 73.2896	0.008	0.621	0.000	0.031	0.001	0.630 ✓	1.000	4.8.2 ✓
	73.2896 - 71.0577	0.008	0.651	0.000	0.031	0.000	0.660 ✓	1.000	4.8.2 ✓
	71.0577 - 68.8258	0.008	0.680	0.000	0.031	0.000	0.689 ✓	1.000	4.8.2 ✓
	68.8258 - 66.5939	0.009	0.708	0.000	0.032	0.000	0.718 ✓	1.000	4.8.2 ✓
	66.5939 - 60.8644	0.004	0.354	0.000	0.015	0.000	0.358 ✓	1.000	4.8.2 ✓
L3	66.5939 - 60.8644	0.004	0.316	0.000	0.013	0.000	0.320 ✓	1.000	4.8.2 ✓
	60.8644 - 59.8483	0.007	0.588	0.000	0.024	0.000	0.596 ✓	1.000	4.8.2 ✓
	59.8483 - 58.8321	0.007	0.596	0.000	0.024	0.000	0.604 ✓	1.000	4.8.2 ✓
	58.8321 - 57.816	0.007	0.604	0.000	0.024	0.000	0.612 ✓	1.000	4.8.2 ✓
	57.816 - 56.7999	0.007	0.612	0.000	0.024	0.000	0.620 ✓	1.000	4.8.2 ✓
	56.7999 - 55.7838	0.007	0.620	0.000	0.024	0.000	0.628 ✓	1.000	4.8.2 ✓
	55.7838 - 54.7676	0.007	0.628	0.000	0.024	0.000	0.636 ✓	1.000	4.8.2 ✓

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 88 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
L4	54.7676 - 53.7515	0.007	0.636	0.000	0.024	0.000	0.644 ✓	1.000	4.8.2 ✓
	53.7515 - 52.7354	0.008	0.644	0.000	0.024	0.000	0.652 ✓	1.000	4.8.2 ✓
	52.7354 - 46.5939	0.004	0.352	0.000	0.012	0.000	0.356 ✓	1.000	4.8.2 ✓
	46.5939 - 46.5939	0.004	0.344	0.000	0.012	0.000	0.349 ✓	1.000	4.8.2 ✓
	46.5939 - 44.1416	0.009	0.721	0.000	0.024	0.000	0.730 ✓	1.000	4.8.2 ✓
	44.1416 - 41.6893	0.009	0.738	0.000	0.024	0.000	0.747 ✓	1.000	4.8.2 ✓
	41.6893 - 39.237	0.009	0.754	0.000	0.024	0.000	0.764 ✓	1.000	4.8.2 ✓
	39.237 - 36.7847	0.009	0.770	0.000	0.025	0.000	0.780 ✓	1.000	4.8.2 ✓
	36.7847 - 34.3323	0.009	0.786	0.000	0.025	0.000	0.796 ✓	1.000	4.8.2 ✓
	34.3323 - 31.88	0.009	0.801	0.000	0.025	0.000	0.811 ✓	1.000	4.8.2 ✓
	31.88 - 29.4277	0.010	0.816	0.000	0.025	0.000	0.826 ✓	1.000	4.8.2 ✓
	29.4277 - 26.9754	0.010	0.830	0.000	0.025	0.000	0.841 ✓	1.000	4.8.2 ✓
	26.9754 - 24.5231	0.010	0.844	0.000	0.025	0.000	0.855 ✓	1.000	4.8.2 ✓
	24.5231 - 22.0708	0.010	0.858	0.000	0.025	0.000	0.869 ✓	1.000	4.8.2 ✓
	22.0708 - 19.6185	0.010	0.872	0.000	0.025	0.000	0.883 ✓	1.000	4.8.2 ✓
	19.6185 - 17.1662	0.011	0.886	0.000	0.025	0.000	0.897 ✓	1.000	4.8.2 ✓
	17.1662 - 14.7139	0.011	0.899	0.000	0.025	0.000	0.910 ✓	1.000	4.8.2 ✓
	14.7139 - 12.2616	0.011	0.912	0.000	0.025	0.000	0.923 ✓	1.000	4.8.2 ✓
	12.2616 - 9.80924	0.011	0.924	0.000	0.025	0.000	0.936 ✓	1.000	4.8.2 ✓
	9.80924 - 7.35693	0.011	0.937	0.000	0.025	0.000	0.949 ✓	1.000	4.8.2 ✓
	7.35693 - 4.90462	0.011	0.949	0.000	0.025	0.000	0.962 ✓	1.000	4.8.2 ✓
	4.90462 - 2.45231	0.012	0.962	0.000	0.025	0.000	0.974 ✓	1.000	4.8.2 ✓
	2.45231 - 0	0.012	0.974	0.000	0.025	0.000	0.986 ✓	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	129 - 109	Pole	TP29.876x24.976x0.1875	1	-5603.62	1120840.00	24.1	Pass
L2	109 - 60.8644	Pole	TP41.6692x29.876x0.25	2	-17278.70	2004110.00	71.8	Pass
L3	60.8644 -	Pole	TP44.6654x39.7655x0.3125	3	-21631.60	2864170.00	65.2	Pass

tnxTower Nello Corporation 211 W. Washington St., Suite 2000 South Bend, IN 46601 Phone: 574-288-3632 FAX: 574-288-5860	Job SO15543/SO21571; Tower 147997; Foundation 147998	Page 89 of 89
	Project NTP 109' Extendable 129'- Guilford, CT - New Haven Co., CT	Date 14:07:08 12/22/14
	Client Bay Communications, LLC	Designed by Tony2 tnxTower 6.1.2.0

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
L4	46.5939 46.5939 - 0	Pole	TP55.4559x42.5358x0.3125	4	-38909.00	3285120.00	98.6	Pass	
							Summary		
							Pole (L4)	98.6	Pass
							Base Plate	85.7	Pass
							RATING =	98.6	Pass

Pole Pier & Pad Foundation Design

Order/Quote Number: **SO21571 / SO15543**
 Part Number: **147998**
 Tower Model: **NTP 55" x 109' (Extendable to 129')**
 Company: **Bay Communications, LLC**
 Site: **Guilford, CT - New Haven Co., CT**



Tower Reactions (Factored)

Shear:	41.808 kips
Moment:	3635.348 ft-kips
Weight:	38.953 kips
Compression:	38.953 kips
Uplift:	0.000 kips

Foundation Design Reactions

Additional Load Factor:	1.00
Shear:	41.808 kips
Moment:	3635.348 ft-kips
Weight:	38.953 kips
Compression:	38.953 kips

Site Details

SoilType:	Sand
Soil Unit Weight (Backfill):	120 pcf
Allowable Bearing Pressure:	5000 psf
Factor of Safety:	2
Ultimate Bearing Pressure:	10000 psf
Bearing Pressure Type:	Net Bearing Pressure
Angle of Internal Friction:	30 degrees
Cohesion:	0 psf
Sliding Friction Coefficient:	0.25
Frost Depth (Neglected):	4 ft
Min. Bearing Depth:	4 ft
Water Depth:	7 ft
Passive Pressure Coefficient:	3.00
Active Pressure Coefficient:	0.33

Geotechnical Report

Company:	Advanced Engineering Group, P.C.
Date:	6/25/2014
Project:	14-0609
Seismic Site Class:	B
Design Response Acc., S _{DS} :	0.180 g
Design Response Acc., S _{S1} :	0.062 g
Seismic Design Category:	B

Material Specifications

Concrete Unit Weight:	150 pcf
Concrete Strength:	4000 psi
Rebar Yield Strength:	60 ksi
Clear Cover:	3 in
Clear Cover (Top of Pier):	3 in
Clear Cover Tolerance, +/- (Top of Pier):	1 in

Development Length Requirements

Pad Reinforcement Location Factor:	1.0
Pier Reinforcement Location Factor:	1.0
Coating Factor:	1.0
Lightweight Concrete Factor:	1.0
Transverse Reinforcement Index:	0.0 in
Pad Development Length Reduction:	<input type="checkbox"/> No Reduction
Compressive Development Length Red:	<input type="checkbox"/> No Reduction
Tension Development Length Reduction:	<input type="checkbox"/> No Reduction
Pad Ties Development Length Reduction:	<input type="checkbox"/> No Ties in Pad

Design Dimensions

Pole Base Outside Diameter:	55.4559 in
Pole Wall Thickness:	0.3125 in
Pier Extension:	1 ft
Pier Diameter:	7 ft
Depth:	5 ft
Pad Thickness:	2.5 ft
Pad Width:	23.5 ft
Eccentricity:	0.00 ft
Anchor Bolt Circle Diameter:	62.5 in
Embedment Plate Diameter:	67.5 in
Embedment Plate ID:	57.5 in
Distance to Concrete Edge:	11.75 ft

Maximum Foundation Capacity Rating: 97.1%

Weight

Concrete Pad Volume (cubic yd)	Concrete Pier Volume (cubic yd)	Total Concrete Volume (cubic yd)	Concrete Weight (kips)	Soil Volume (cubic yd)	Soil Weight (kips)	Soil Weight Removed (kips)	Total Down Load (kips)
51.13	4.99	56.12	227.30	47.57	154.13	331.35	420.38

Lateral Capacity

Minimum Depth Required (ft)	Soil Unit Weight Below GWT (pcf)	Ultimate Passive Pressure					Ultimate Active Pressure				
		@ Depth Neglected (ksf)	@ Top of Footing (ksf)	@ Bottom of Footing (ksf)	@ Top of Pressure Zone (ksf)	@ GWT (ksf)	Average (ksf)	@ Top of Footing (ksf)	@ Bottom of Footing (ksf)	@ GWT (ksf)	Average (ksf)
4	57.6	1.44	0.90	1.80	1.44	2.52	1.62	0.10	0.20	0.28	0.15

Effective Pad Thickness (ft)	Effective Pad Area (sq ft)	Nominal Passive Resistance (kips)	Nominal Active Loading (kips)	Nominal Friction Resistance (kips)	Design Lateral Resistance (kips)
1	23.5	38.07	3.53	105.1	104.7
OK					
39.9%					

Overturning

Weight of Soil Wedge on Back Face (kips)	Moment Resistance From Weight (ft-kips)	Moment Resistance from Soil Wedge (ft-kips)	Moment Resistance from Passive Pressure (ft-kips)	Moment Loading from Active Pressure (ft-kips)	Nominal Moment Resistance (ft-kips)	Overturning Moment (ft-kips)	Design Overturning Resistance (ft-kips)
20.35	4825.05	497.85	12.69	1.18	5334.41	3886.20	4000.8
OK							
97.1%							

Bearing Pressure

Solve for Min. Pressure 0.000 This Cell = 0 when spreadsheet is solved.

Case 1: Entire Mat is in Positive Bearing				Case 2: Back Edge of Mat is Uplifting			Minimum Gross Bearing Pressure (ksf)	Maximum Gross Bearing Pressure (ksf)	Maximum Net Bearing Pressure (ksf)	Maximum Bearing Pressure (ksf)
Minimum Pressure (ksf)	Maximum Pressure (ksf)	Entire Mat is in Positive Bearing (TRUE/FALSE)	Adjusted Bearing Width (ft)	Minimum Pressure (ksf)	Maximum Pressure (ksf)	Back Edge of Mat is Uplifting (TRUE/FALSE)				
-1.04	2.56	FALSE	7.52	0.00	4.76	TRUE	0.00	4.76	4.16	4.16
OK										
55.5%										

Pad Reinforcement Design

Flexural Strength Reduction Factor = 0.9 ACI 9.3.2.1

Number of Bars	Bar Size	Bar Length (in)	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Total Bar Area per Layer per Direction (sq in)	Minimum Bar Area Required (sq in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)
31	9	276	1.13	3.40	9697	1.00	31.00	7.61	9.2	8.0
OK										
Constructability: OK										

ANSI/TIA-222-G - Design Factors

Uplift Resistance Factor, Phi:	0.75
Compressive Resistance Factor, Phi:	0.75
Bearing Capacity Resistance, Phi:	0.75
Lateral Resistance Factor, Phi:	0.75

Summary Check

Minimum Depth:	OK
Lateral Check:	OK
Overturning Check:	OK
Bearing Check:	OK
Concrete Strength Check:	OK
Max Pad Reinforcement Spacing:	OK
Min. Pad Reinforcement Spacing:	OK
Pad Constructability Check:	OK
Min. Pad Reinforcement Check:	OK
Pad Reinforcement Yield Check:	OK
Pad Flexural Check:	OK
Pad Development Length:	OK
One Way Shear Check:	OK
Two-Way Shear Check:	OK
Vertical Bar Spacing Check:	OK
Min/Max Vertical Bar Spacing Check:	OK
Pier Constructability Check:	OK
Minimum Vertical Reinforcement:	OK
Pier Compressive Strength:	OK
Pier Reinforcement Stress:	OK
Shear Friction:	OK
Compressive Development in Pier:	OK
Compressive Development in Footing:	OK
Tensile Development in Pier:	OK
Tensile Development in Footing:	HOOK REQ'D
Hook Development Length:	OK
Space of Hook:	OK
Plate & Rebar Spacing Check:	OK
Anchor Embedment Clearance:	ABs IN PAD
Anchor Bolt Spacing:	OK
Anchor Bolt Development:	OK
Anchor Pull-out Check:	OK
Anchor Strength Check:	OK

Flexural Strength						Required Development Length (in)	Available Development Length (in)
Effective Depth (in)	Effective Width (in)	Compressive Zone Depth (in)	Concrete Strength Factor	Factored Moment (ft-kips)	Design Moment (ft-kips)		
25.31	282.00	1.940	0.85	3254.17	3395.16	32.10	96.00
Yield Check:						OK	OK
						95.8%	

Concrete Shear Capacity Shear Strength Reduction Factor = 0.75 ACI 9.3.2.3

One-Way Shear					Two-Way Shear					
Effective Shear Depth (ft)	Effective Shear Width (ft)	Factored Shear Force (kips)	Nominal Concrete Shear Strength (kips)	Nominal Rebar Shear Strength (kips)	Design Shear Strength (kips)	Shear Perimeter (ft)	Factored Shear Force (kips)	Nominal Concrete Shear Strength (kips)	Nominal Rebar Shear Strength (kips)	Design Shear Strength (kips)
2.11	23.50	600.31	902.75	0.00	677.06	28.62	38.95	2198.62	0.00	1648.96
					OK					
					88.7%					

Tie Reinforcement Design

Number of Bars	Bar Size	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Overlap Length (in)	Total Length (in)	Zone	Maximum Tie Spacing (in)	Zone Distance (in)	Number of Tie Spaces	Actual Tie Spacing (in)	Number of Ties per Zone
5	4	0.50	0.67	72	0.20	15.0	258.5	End	5	5	1	5	2
								Top	0	0	0	0	
								Middle	16	34	3	11 5/16	3
								Pad	N/A	N/A	N/A	N/A	N/A

Splice Length - Ties

Bar Size	Reinf. Location Factor, α	Coating Factor, β	Reinf. Size Factor, γ	Lightwt. Aggregate Factor, λ	Spacing or Cover, c (in)	Transverse Reinf. Index, K_{tr}	Development Length l_d (in)	Splice Length $1.3 * l_d$ (in)
4	1.0	1.0	0.8	1.0	3.25	0.0	12.0	14.8

Pier Vertical Reinforcement Design

Number of Bars	Bar Size	Bar Diameter (in)	90 degree Hook Length (ACI 7.1.2) (in)	Bend Radius (in)	Bar Length (in)	Bar Area (sq in)	Pier Gross Area (sq in)	Total Bar Area (sq in)	Minimum Bar Area Required (sq in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)
57	8	1.00	12.00	3.00	78.00	0.79	5541.77	45.03	27.71	4.2	3.2
OK											
Constructability: OK											

Development Length - Vertical Pier Reinforcement

Compressive Development				Tension Development		
Required Length (in)	Available in Pier (in)	Available in Footing (in)	Required Length (in)	Available in Pier (in)	Available in Footing (in)	
18.97	18.97	39.00	24.74	33.97	24.74	
OK		OK		OK		
				HOOK REQ'D		

Hook Development Length

Basic Development Length (in)	Concrete Cover Factor	Required Development Length (in)	Development Length Available (in)	Hook Orientation	Space Available for Hook (in)	Space Required for Hook (in)
18.97	0.7	13.3	24.74	Hooks Extend Outward	99.50	15.0
OK						

Pier Axial Strength - Compression and Tension

Reinforcement Stress			Equivalent Pipe				Shear-Friction							
Pier Gross Area (in ²)	Nominal Compressive Strength (kip)	Compressive Strength Reduction Factor	Design Compressive Strength (kip)	Diameter of Reinforcement Circle (in)	Diameter of Reinforcement		Thickness (in)	Section Modulus (in ³)	Reinforcement Stress (ksi)	Resistance Factor for Tension	Design Stress (ksi)	Nominal Shear-Friction Strength (kip)	Design Shear-Friction Strength (kip)	
					Outer Diameter (in)	Inner Diameter (in)								
5541.77	21390.71	0.65	11123.17	76.00	76.19	75.81	0.377	853.5	52.31	0.90	54	1621.08	1215.81	
OK												OK	OK	
												0.4%	96.9%	3.4%

Anchor Bolt and Embedment Plate Details

Number of Bolts	Bolt Diameter (in)	Bolt Length (in)	Anchor Bolt P/N	Bolt Projection (in)	Projection Tolerance Above (in)	Projection Tolerance Below (in)	Plate P/N	Plate O.D. / Width (in)	Bolt Circle Diameter (in)	Plate I.D. (in)	Plate Thickness (in)	Grout Space Beneath Plate (in)	Anchor Bolt Detail Type
14	2.25	72	108742	12	2	0	148000	67.5	62.5	57.5	0.375	3.375	(d) No Grout

Anchor Bolt Properties & Forces

Yield Strength (ksi)	Ultimate Tensile Strength (ksi)	Bolt Threads per Inch	Root Diameter of Bolt (in)	Bolt Gross Area (in ²)	Bolt Net Area (in ²)	Bolt Cage Moment of Inertia [Area] (in ⁴)	Top of Concrete to Bottom of Leveling Nut (in)	Plastic Section Modulus (in ³)	Maximum Bolt Tensile Force (kip)	Maximum Bolt Compressive Force (kip)	Maximum Bolt Shear Force (kip)	Bending Moment Due to Shear (kip-ft)	Maximum Force on Bolt Head (kip)
75	100	4.5	2.033	3.976	3.248	6835.94	1.125	1.401	196.642	202.207	5.973	0.364	60.606

Anchor Concrete Design

Anchor Embedment Depth (in)	Effective Embedment Depth (in)	Required Tensile Development Length (in)	Rebar Engaged by Bolts (in)	Spacing / Cover Dimension (in)	Transverse Reinf. Index (in)	Anchor Tensile Development Length (in)	Force Resisted by Embedment (%)	Hex Nut Width Across Flats (in)	Net Bearing Area of Hex Head (in ²)	Cracking Modification Factor	Pullout Reduction Factor	Design Pullout Strength (kip)	Pier Allowable Embedment Depth
58.00	55.38	33.97	45.13	7.01	0.05	80.05	69%	3.500	6.633	1.4	0.70	208.003	42.000
OK													OK
ABs IN PAD													

Anchor Steel Design

Bolt Resistance Factor	Bolt Nominal Tensile Strength (kip)	Bolt Design Tensile Strength (kip)	Shear Reduction Factor	Grout Factor	Bolt Design Shear Strength [ACI] (kip)	Bolt Design Shear Strength [TIA] (kip)	Combined Shear & Tension	Flexure Resistance Factor	Bolt Design Flexural Strength (kip-ft)	Interaction Resistance Factor	Eta	Anchor Bolt Interaction Equation	Anchor Spacing - Ctr-Ctr (in)
0.75	324.768	243.576	0.65	1.00	126.660	134.193	0.654	0.90	7.883	0.80	0.50	0.824	14.025
OK													

Notes

- Foundation design is based on the Geotechnical Report dated 06/25/2014, by Advanced Engineering Group, P.C.; Project No. 14-0609.
- Groundwater may be encountered at 7 feet bgs at this site based on the geotechnical investigation. The need for dewatering should be anticipated below this depth.
- Granite bedrock was encountered at 3.5-ft below existing grade during the geotechnical investigation. The contractor shall be prepared to use heavy rock excavation equipment (i.e. pneumatic hammer, hoe-rm, etc.) and/or controlled blasting to remove the bedrock to the required bearing elevation. Depth to bedrock may vary across the foundation footprint.
- The foundation shall either bear directly on the granite bedrock or compacted, imported structural fill extending to bedrock only. Under no circumstances shall the foundation bear on both bedrock and imported fill.

Pole Pad & Pier Foundation Design Summary

Max. Foundation Capacity Rating:	97.1%
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FOUNDATION DIMENSIONS	
Pole Diameter:	55.4559 in
Pier Extension:	1 ft
Pad Depth:	5 ft
Pad Width:	23.5 ft
Pad Thickness:	2.5 ft
Pier Diameter:	7 ft
Clear Cover:	3 in
Total Volume:	56.1 yd ³

PAD REINFORCEMENT	
Bar Size:	9
Bar Length:	276 in
Bar Quantity per Layer:	31
Total Quantity:	124
Weight per Bar:	78.2 lbs
Total Weight:	9697 lbs

PIER REINFORCEMENT	
Bar Size:	8
Bar Length:	78 in
Bend Radius:	3 in
Hook Length:	12 in
Hook Orientation:	Hooks Extend Outward
Bar Quantity:	57
Weight per Bar:	17.4 lbs
Total Weight:	989.2 lbs

TIE REINFORCEMENT	
Bar Size:	4
Bar Length:	259 in
Hook Bend Radius:	1.5 in
Overlap/Hook Extension:	15 in
Tie Termination Type:	Overlap
Quantity of Ties in Pad:	N/A
Bar Quantity:	5
Total Weight:	72 lbs

TOWER REACTIONS	
Tower Shear:	41.8 kip
Tower Moment:	3635.3 ft-kip
Tower Weight:	39.0 kip

MATERIAL SPECIFICATIONS	
Concrete Strength:	4000 psi
Concrete Weight:	150 pcf
Soil Strength (Ultimate Bearing):	10000 psf
Rebar Yield Strength:	60 ksi

ANCHORING DETAILS	
Anchor P/N:	108742
Anchor Diameter:	2.25 in
Anchor Length:	72 in
Anchor Quantity:	14
Anchor Projection:	12 in
	+ 2" - 0"
Embedment Plate P/N:	148000
Embedment Plate OD:	67.5 in
Bolt Circle Diameter:	62.5 in
Embedment Plate ID:	57.5 in

STRUCTURAL FILL CRITERIA	
Loose Lift Thickness:	6 in
Percent Compaction:	95%
ASTM Standard:	D1556
Optimum Moisture Content	2%
Tolerance:	-2%

BACKFILL CRITERIA (NON-STRUCTURAL)	
Loose Lift Thickness:	6 in
Percent Compaction:	92%
ASTM Standard:	D1556
Optimum Moisture Content	2%
Tolerance:	-2%

ECO #:	5511
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ADDITIONAL NOTES

- Foundation design is based on the Geotechnical Report dated 06/25/2014, by Advanced Engineering Group, P.C.; Project No. 14-0609.
- Groundwater may be encountered at 7 feet bgs at this site based on the geotechnical investigation. The need for dewatering should be anticipated below this depth.
- Granite bedrock was encountered at 3.5-ft below existing grade during the geotechnical investigation. The contractor shall be prepared to use heavy rock excavation equipment (i.e. pneumatic hammer, hoe-ram, etc.) and/or controlled blasting to remove the bedrock to the required bearing elevation. Depth to bedrock may vary across the foundation footprint.
- The foundation shall either bear directly on the granite bedrock or compacted, imported structural fill extending to bedrock only. Under no circumstances shall the foundation bear on both bedrock and imported fill.
- In preparing the rock bearing surface for the footing; all loose or soft material and debris shall be removed, any cracks or seams in the rock shall be filled with lean concrete or grout and the rock surface shall be leveled. A level bearing surface may be established with 2000 psi lean concrete.

Exhibit C

**RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS**

T-Mobile Existing Facility

Site ID: CTNH805A

**Bay Communications Guilford, CT
Moose Hill Road
Guilford, CT 06437**

July 16, 2015

EBI Project Number: 6215004111

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	11.66 %

July 16, 2015

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CTNH805A – Bay Communications Guilford, CT**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **Moose Hill Road, Guilford, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the 700 MHz Band is $467 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS and AWS bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at **Moose Hill Road, Guilford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel
- 2) 2 UMTS channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.
- 5) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

- 6) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 7) The antennas used in this modeling are the **Ericsson AIR21 B2A/B4P** for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the **Ericsson AIR21 B4A/B12P** for 2100 MHz (AWS) and 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **Ericsson AIR21 B2A/B4P** has a maximum gain of **15.9 dBd** at its main lobe. The **Ericsson AIR21 B4A/B12P** has a maximum gain of **15.9 dBd** at its main lobe at 1900 MHz and 2100 MHz and has a maximum gain of **13.6 dBd** at its main lobe at 700 MHz. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antenna mounting height centerline of the proposed antennas is **106 feet** above ground level (AGL).
- 9) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general public threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	106	Height (AGL):	106	Height (AGL):	106
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	4	Channel Count	4	# PCS Channels:	4
Total TX Power:	120	Total TX Power:	120	# AWS Channels:	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A1 MPE%	1.68	Antenna B1 MPE%	1.68	Antenna C1 MPE%	1.68
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B4A/B12P	Make / Model:	Ericsson AIR21 B4A/B12P	Make / Model:	Ericsson AIR21 B4A/B12P
Gain:	15.9 / 13.6 dBd	Gain:	15.9 / 13.6 dBd	Gain:	15.9 / 13.6 dBd
Height (AGL):	106	Height (AGL):	106	Height (AGL):	106
Frequency Bands	2100 MHz (AWS) / 700 MHz	Frequency Bands	2100 MHz (AWS) / 700 MHz	Frequency Bands	2100 MHz (AWS) / 700 MHz
Channel Count	3	Channel Count	3	Channel Count	3
Total TX Power:	150	Total TX Power:	150	Total TX Power:	150
ERP (W):	5,355.80	ERP (W):	5,355.80	ERP (W):	5,355.80
Antenna A2 MPE%	2.21	Antenna B2 MPE%	2.21	Antenna C2 MPE%	2.21

Site Composite MPE%	
Carrier	MPE%
T-Mobile	11.66
No Additional Carriers Per CSC MPE Database	
Site Total MPE %:	11.66 %

T-Mobile Sector 1 Total:	3.89 %
T-Mobile Sector 2 Total:	3.89 %
T-Mobile Sector 3 Total:	3.89 %
Site Total:	11.66 %

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general public exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector 1:	3.89 %
Sector 2:	3.89 %
Sector 3 :	3.89 %
T-Mobile Total:	11.66 %
Site Total:	11.66 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **11.66%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



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