

1280 Route 46 West, Suite 9, Parsippany NJ, 07054

Ms. Melanie Bachman Executive Director CT Siting Council 10 Franklin Square New Britain, CT 06051

EM-SPRINT-088-171113



Re: Notice of Exempt Modification Application 0 Clark Hill Road, Naugatuck, CT 06770

November 7, 2017

Dear Ms. Bachman:



Sprint Spectrum Realty Company, L.P. ("Sprint"), is submitting to the Connecticut Siting Council for a Notice of Exempt Modification for Proposed Modifications to an Existing Telecommunications Facility located at the above-referenced site. Sprint currently maintains 3 existing panel antenna and 6 remote radio units at the 208' level of the Tower. Sprint proposes to add 3 panel antennas (1 per sector) and 3 remote radio units (1 per sector) at 208' tower level as well as 1 hybrid cable and 33 Antenna-RRH jumper cables and new 2.5 equipment in existing radio cabinet.

There does not appear to be an initial CT Siting Council Tower Share approval (there is a tower share listed for Nextel - TS-NEXTEL-088-991013) and a BP was issued by the Town of Naugatuck on 12/20/1996. The documents enclosed reflect the reality of the current installations on the Tower.

If you have any questions, please feel free to contact me.

Thank you,

By: Paul F. Sagristano

Paul F. Sagristano Cherundolo Consulting 917.841.0247 psagristano@lrivassoc.com



1280 Route 46 West, Suite 9, Parsippany NJ, 07054

Ms. Melanie Bachman Executive Director CT Siting Council 10 Franklin Square New Britain, CT 06051

Re: Notice of Exempt Modification Application 0 Clark Hill Road, Naugatuck, CT 06770

Latitude: N41.3942 Longitude: W73.1078

Dear Ms. Bachman:

Sprint currently maintains 3 existing panel antenna and 6 remote radio units at the 208' centerline level of the guyed tower. Sprint proposes to add 3 panel antenna and 3 remote radio units at 208' centerline on the tower. Sprint further proposes to add 1 hybrid cable, 33 Antenna to RRH jumper cables, a new 2.5 radio equipment in the existing ground based radio cabinet. Sprint is performing a new high-performance upgrade for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

The original CT Siting Council approval does not appear to be available for Sprint, but a Nextel TS is listed on the CSC site - TS-NEXTEL-088-991013. The original building permit was issued by Naugatuck on December 20, 1996.

Please accept this letter as notification to the Council, pursuant to R.C.S.A. Section 16-50j-73, for 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 is being sent to and to Dean Maluski, the lead engineer for Tribune Broadcasting Hartford, LLC the tower owner as well as to N. Warren Hess III the Mayor of Naugatuck and to Lori Rotella the Town planner of the Borough of Naugatuck.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint's operations at the site. Also included is documentation of the structural sufficiency of the tower with proposed modifications to accommodate the revised antenna configuration.

Existing Facility

The Naugatuck facility is located at 0 Clark Hill Road, Naugatuck and is owned by Tribune Broadcasting Hartford, LLC, the Site coordinates are: N41.3942, W73.1078.

The existing facility consists of a 267 Guyed Tower. Sprint currently operates wireless communications equipment on a platform on a concrete slab at the facility and has 3 antennas and 6 RRU's mounted on at a centerline of 208' feet.

Statutory Considerations

The planned modifications to the facility fall within the activities explicitly provided for in R.C.S.A. 16-50j-72(b)(2)

- 1. The height of the overall structure will be unaffected.
- 2. The proposed changes will not require an extension of the property boundaries.
- 3. The proposed additions will not increase the noise level at the existing facility by

six decibels or more, or to levels that exceed state and/or local criteria

- 4. The changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the Federal Communications Commission safety standard.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A Section §16-50j-72(b)(2).

Respectfully submitted,

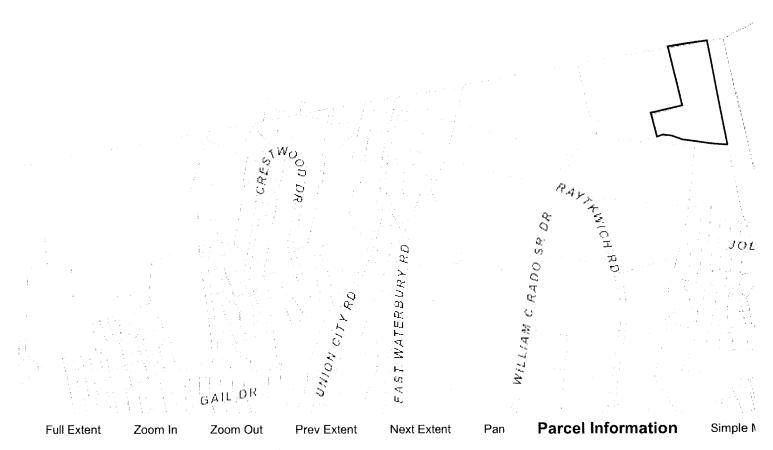
Paul F. Sagristano

Paul F. Sagristano Charles Cherundolo Consulting 917-841-0247 psagristano@lrivassoc.com

PFS/mtf

N. Warren Hess III Mayor of the Borough of Naugatuck – Via Fed Ex Lori Rotella – Town Planner for Naugatuck – Via Fed Ex Dean Maluski – Lead Engineer for Tribune Broadcasting Hartford, LLC - Via Fed Ex Full Town View Reset Map Search Print Map He Map Layers

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Town of Naugatuck - NEGEO MapXpress v1.2

Property Listing Report

Map Block Lot`

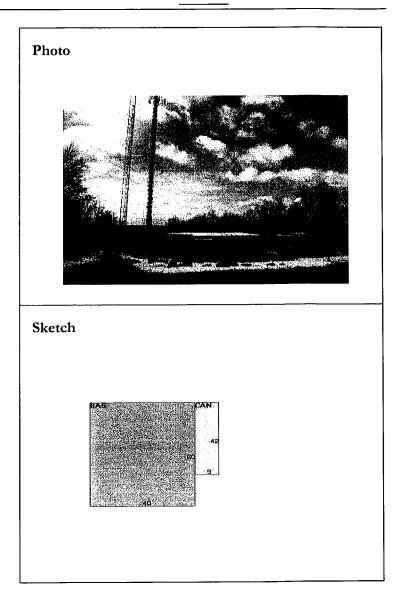
K-20E138-A

Account

011-3060

Property Information

0 CLARK HILL RD CHANNEL 20 INC C/O WTIC TV			
C/O EQU	ITY PROPERTY T	AX GROUP	
CHICAGO	D IL	60606-6115	
4330	RAD/TV TR		
1	-		
	•		
D			
7.9			
	CHANNE C/O EQU CHICAGO 4330	CHANNEL 20 INC C/O WTI C/O EQUITY PROPERTY T CHICAGO IL 4330 RAD/TV TR I	



Primary Construction Details

Year Built	1980
Stories	1
Building Style	Transmit Bldg
Building Use	Ind/Comm
Building Condition	С
Floors	Concrete
Total Rooms	

Bedrooms	
Full Bathrooms	1
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Metal/Tin

Exterior Walls	Pre-finsh Metl
Interior Walls	Drywall
Heating Type	Forced Hot Air
Heating Fuel	Electric
AC Type	Central
Gross Bldg Area	2778
Total Living Area	2400

Borough of Naugatuck, CT

Property Listing Report

Map Block Lot

K-20E138-A

Account

011-3060

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed	
Buildings	279060	195340	
Extras	0	0	
Outbuildings	375690	262990	
Land	219000	153300	
Total	0		

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	2400	2400
Canopy	378	0
Total Area	2778	2400

Outbuilding and Extra Items

Туре	Description
CELL BLDG	170 S.F.
CELL BLDG	360 S.F.
Fence 6 ft	500 L.F.
CELL BLDG	140 S.F.
CELL BLDG	264 S.F.
TV TOWER	980 HEIGHT
TV TOWER	280 HEIGHT

Sales History

Owner of Record Book/ Page Sale Date Sale Price

CHANNEL 20 INC C/O WTIC TV

328/ 466

3/3/1989

1800000

#16805 ASTENURE CHANUEL2

BUILDING PERMIT

BOROUGH OF NAUGATUCK

This Permit Must Be Attached to or in Front of Building.

To Be Removed Only By Building Inspector Upon Completion.

DATE 2.20-16

BUILDING OFFICIAL

UPON COMPLETION AND BEFORE USING NOTIFY BUILDING INSPECTOR'S OFFICE.

FNS7 (5/90) S.O.S.



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

SPRINT Existing Facility

Site ID: CT03XC025

Smaller WTXX Tower 0 Clark Hill Road Naugatuck, CT 06712

November 6, 2017

EBI Project Number: 6217004291

Site Compliance Summary			
Compliance Status:	COMPLIANT		
Site total MPE% of			
FCC general	3.58 %		
population			
allowable limit:			



November 6, 2017

SPRINT Attn: RF Engineering Manager 1 International Boulevard, Suite 800 Mahwah, NJ 07495

Emissions Analysis for Site: CT03XC025 – Smaller WTXX Tower

EBI Consulting was directed to analyze the proposed SPRINT facility located at **0 Clark Hill Road**, **Naugatuck**, **CT**, for the purpose of determining whether the emissions from the Proposed SPRINT 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm2). The number of μ W/cm² 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 population 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 population 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 (μ W/cm²). The general population exposure limits for the 850 MHz Band is approximately 567 μ W/cm². The general population exposure limit for the 1900 MHz (PCS) and 2500 MHz (BRS) bands is 1000 μ W/cm². 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.

21 B Street Burlington, MA 01803 Tel: (781) 273.2500 Fax: (781) 273.3311



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 SPRINT Wireless antenna facility located at 0 Clark Hill Road, Naugatuck, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since SPRINT 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) 1 CDMA channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 2) 2 LTE channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 3) 5 CDMA channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 16 Watts per Channel.
- 4) 2 LTE channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 8 LTE channels (2500 MHz (BRS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.

21 B Street Burlington, MA 01803

Tel: (781) 273.2500 Fax: (781) 273.3311



- 6) 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.
- 7) For the following calculations, the sample point was the top of a 6-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.
- 8) The antennas used in this modeling are the RFS APXVSPP18-C-A20 and the Commscope DT465B-2XR for transmission in the 850 MHz, 1900 MHz (PCS) and 2500 MHz (BRS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. 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.
- 9) The antenna mounting height centerlines of the proposed antennas are **208 feet** above ground level (AGL) for **Sector A**, **208 feet** above ground level (AGL) for **Sector B** and **208 feet** above ground level (AGL) for Sector C.
- 10) 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 population threshold limits.

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SPRINT Site Inventory and Power Data by Antenna

Sector:	A	Sector:	В	Sector:	C
Antenna #:	1	Antenna#:	1	Antenna#.	1
Make / Model:	RFS APXVSPP18-C-A20	Make / Model:	RFS APXVSPP18-C-A20	Make / Model:	RFS APXVSPP18-C-A20
Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd
Height (AGL):	208 feet	Height (AGL):	208 feet	Height (AGL):	208 feet
Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)
Channel Count	10	Channel Count	10	Channel Count	10
Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts
ERP (W):	7,537.38	ERP (W):	7,537.38	ERP (W):	7,537.38
Antenna A1 MPE%	0.75 %	Antenna B1 MPE%	0.75 %	Antenna C1 MPE%	0.75 %
Antenna #:	2	Antenna#:	2	Antenna#:	2
Make / Model:	Commscope DT465B-2XR	Make / Model:	Commscope DT465B-2XR	Make / Model:	Commscope DT465B-2XR
Gain:	15.05 dBd	Gain:	15.05 dBd	Gain:	15.05 dBd
Height (AGL):	208 feet	Height (AGL):	208 feet	Height (AGL):	208 feet
Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)
Channel Count	8	Channel Count	8	Channel Count	8
Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts
ERP (W):	5,118.23	ERP (W):	5,118.23	ERP (W):	5,118.23
Antenna A2 MPE%	0.45 %	Antenna B2 MPE%	0.45 %	Antenna C2 MPE%	0.45 %

Site Composite MPE%		
Carrier	MPE%	
SPRINT – Max per sector	1.20 %	
Prospect Police	0.03 %	
AT&T	1.39 %	
T-Mobile	0.96 %	
Site Total MPE %:	3.58 %	

SPRINT Sector A Total:	1.20 %
SPRINT Sector B Total:	1.20 %
SPRINT Sector C Total:	1.20 %
SPRINT Sector C Total:	1120 70
Site Total:	3.58 %

SPRINT _ Max Values per Frequency Band / Technology Per Sector	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
Sprint 850 MHz CDMA	1	437.55	208	0.39	850 MHz	567	0.07%
Sprint 850 MHz LTE	2	437.55	208	0.77	850 MHz	567	0.14%
Sprint 1900 MHz (PCS) CDMA	5	622.47	208	2.74	1900 MHz (PCS)	1000	0.27%
Sprint 1900 MHz (PCS) LTE	2	1,556.18	208	2.74	1900 MHz (PCS)	1000	0.27%
Sprint 2500 MHz (BRS) LTE	8	639.78	208	4.51	2500 MHz (BRS)	1000	0.45%
		lt eile				Total:	1.20%

21 B Street Burlington, MA 01803

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Summary

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

The anticipated maximum composite contributions from the SPRINT facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

SPRINT Sector	Power Density Value (%)
Sector A:	1.20 %
Sector B:	1.20 %
Sector C:	1.20 %
SPRINT Maximum Total (per sector):	1.20 %
Site Total:	3.58 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **3.58** % of the allowable FCC established general population 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.

Fax: (781) 273.3311



CT03XC025 "DO MACRO UPGRADE"

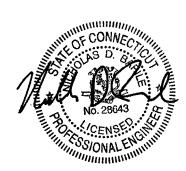
0 Clark Hill Road Naugatuck, CT 06770 New Haven County

Structural Analysis of Guyed Tower

November 2, 2017

Item	Pass/Fail	Capacity
Tower	PASS	93.1%
Foundation	PASS	94.9%

Nicholas D. Barile, PE Connecticut Professional Engineer License No. 28643 Com-Ex Project No. 17041-CHE





Executive Summary

At the request of Sprint, COM-EX has performed a structural analysis of the antenna mounting system for the proposed antenna equipment loading under the **2016 Connecticut Building Code** and **ANSI/TIA-222-G** standards. Information pertaining to the antenna mounts was obtained from:

Construction Drawings completed by Com-Ex Consultants, dated 11/01/17

Conclusions

Per our analysis, the self-supported tower can support proposed loading under 2016 Connecticut Building Code and ANSI/TIA-222-G standards.

General Comments

If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, COM-EX should be notified immediately to perform a revised analysis. This report is not a condition assessment and assumes good workmanship will be used and systems will be properly maintained.

Limitations

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of COM-EX.



Attachment A

Proposed Equipment

Alpha Sector Antenna Configuration

Rad Center: 208'-0"

(1) (N) DT465B-2XR Commscope Antenna

(1) (N) 2500 MHz RRH, 8x20-25

Beta Sector Antenna Configuration

Rad Center: 208'-0"

(1) (N) DT465B-2XR Commscope Antenna

(1) (N) 2500 MHz RRH, 8x20-25

Gamma Sector Antenna Configuration

Rad Center: 208'-0"

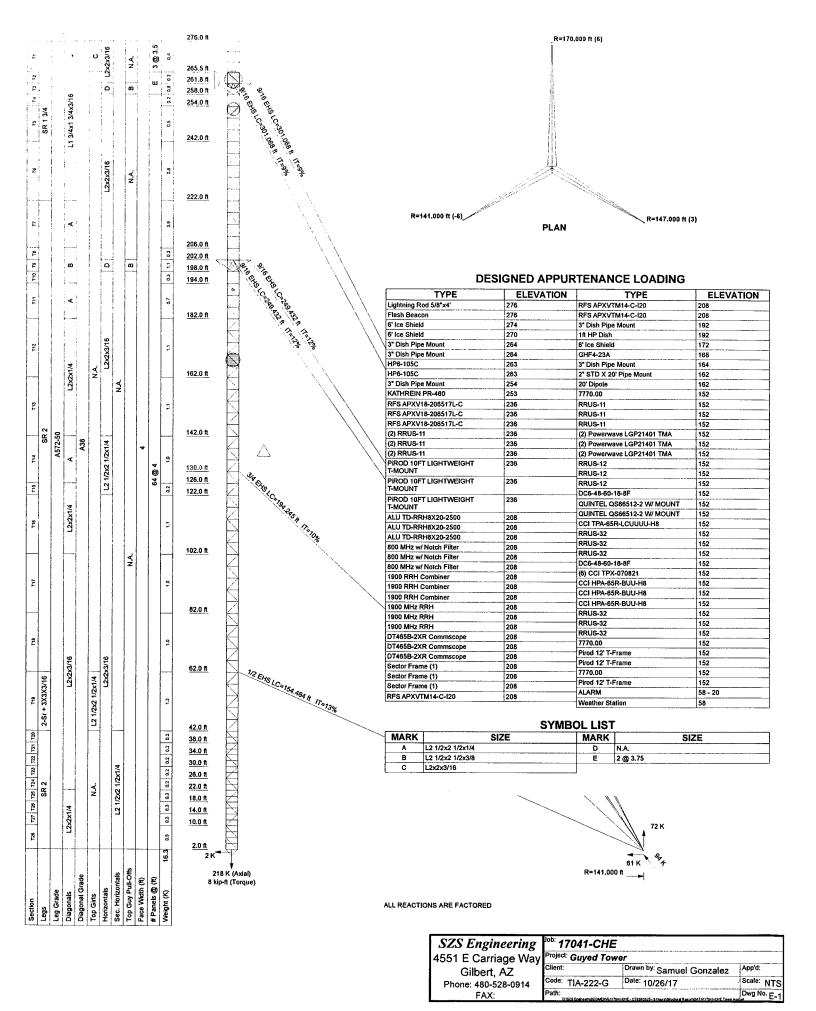
(1) (N) DT465B-2XR Commscope Antenna

(1) (N) 2500 MHz RRH, 8x20-25

Foundation Comparison Analysis

Leg Forces	Fullerton Design Reactions	Current Analysis	% Capacity
Tension (kips)	99.0	94	94.9%
Uplift (kips)	101.2	72	71.1%
Horizontal (kips)	68.7	61	88.8%

Wind per IBC 1609.3.1 Vasd = $Vult(0.6)^{\Lambda^{1/2}}$ = 121mph x (.6) $^{\Lambda^{1/2}}$ = 93.7mph



A	Job		Page
tnxTower		17041-CHE	1 of 95
SZS Engineering	Project		Date
4551 E Carriage Way	•	Guyed Tower	00:36:24 10/26/17
Gilbert, AZ Phone: 480-528-0914	Client		Designed by

Samuel Gonzalez

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 276.000 ft above the ground line.

The base of the tower is set at an elevation of 0.000 ft above the ground line.

The face width of the tower is 4.000 ft at the top and 4.000 ft at the base.

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

The following design criteria apply:

FAX:

Tower is located in Hartford County, Connecticut.

Basic wind speed of 94 mph.

Structure Class II.

Exposure Category B.

Topographic Category 5.

Crest Height 360.000 ft.

SEAW RSM-03 procedures for wind speed-up calculations are used.

Topographic Feature: Continuous Ridge.

Slope Distance L: 800.000 ft.

Distance from Crest x: 2000.000 ft.

Nominal ice thickness of 0.750 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.

Deflections calculated using a wind speed of 60 mph.

I-Beam base is 2.000 ft above the pivot.

Pressures are calculated at each section.

Safety factor used in guy design is 1.

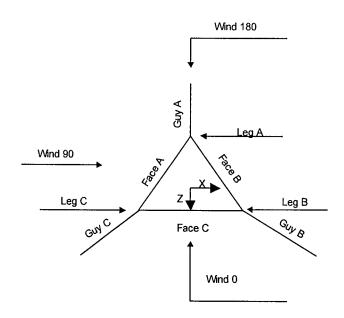
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

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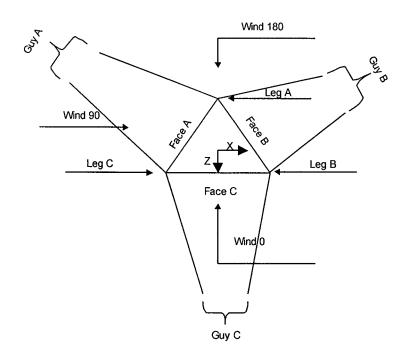
SZS Engineering 4551 E Carriage Way Gilbert, AZ Phone: 480-528-0914 FAX:

Job		Page
	17041-CHE	2 of 95
Project		Date
	Guyed Tower	00:36:24 10/26/17
Client		Designed by
		Samuel Gonzalez



Corner & Starmount Guyed Tower

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tnxTower		17041-CHE	3 of 95
SZS Engineering 4551 E Carriage Way	Project	Guyed Tower	Date 00:36:24 10/26/17
Gilbert, AZ Phone: 480-528-0914 FAX:	Client		Designed by Samuel Gonzalez



Face Guyed

Tower Section Geometry						
Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
······································	ft			ft		fì
Tl	276.000-265.500			4.000	1	10.500
T2	265.500-261.750			4.000	1	3.750
T3	261.750-258.000			4.000	1	3.750
T4	258.000-254.000			4.000	1	4.000
T5	254.000-242.000			4.000	1	12.000
T6	242.000-222.000			4.000	1	20.000
T7	222.000-206.000			4.000	1	16,000
T8	206.000-202.000			4.000	1	4.000
Т9	202.000-198.000			4.000	1	4.000
T10	198.000-194.000			4.000	1	4.000
T11	194.000-182.000			4.000	1	12.000
T12	182.000-162.000			4.000	1	20.000
T13	162.000-142.000			4.000	1	20.000
T14	142.000-126.000			4.000	1	16.000
T15	126.000-122.000			4.000	1	4.000
T16	122.000-102.000			4.000	1	20.000

tnxTower	Job	Page
inxTower	17041-CH	E 4 of 95
SZS Engineering 4551 E Carriage Way	Project Guyed Tov	Date ver 00:36:24 10/26/17
Gilbert, AZ Phone: 480-528-0914 FAX:	Client	Designed by Samuel Gonzalez

Tower	Tower	Assembly	Description	Section	Number	Section
Section	Elevation	Database	-	Width	of	Length
					Sections	· ·
***************************************	ſı			ft		ft
T17	102,000-82,000			4.000	1	20.000
T18	82.000-62.000			4.000	1	20.000
T19	62.000-42.000			4.000	1	20.000
T20	42.000-38.000			4.000	1	4.000
T21	38.000-34.000			4.000	1	4.000
T22	34.000-30.000			4.000	1	4.000
T23	30.000-26.000			4.000	1	4.000
T24	26.000-22.000			4.000	1	4.000
T25	22.000-18.000			4.000	1	4.000
T26	18.000-14.000			4.000	1	4.000
T27	14.000-10.000			4.000	1	4.000
T28	10.000-2.000			4.000	1	8.000

Tower Section Geometry (cont'd)

Tower	Tower	Diagonal	Bracing	Has	Has	Top Girt	Bottom Girt
Section	Elevation	Spacing	Туре	K Brace End	Horizontals	Offset	Offset
	ft	ft		Ena Panels		2	<i>t</i>
T1	276.000-265.500	3.500	V D 1 .0			in	in
T2	265.500-261.750		K Brace Left	No	Yes	0.000	0.000
T3	261.750-258.000	3.750 3.750	Diag Down	No	Yes	0.000	0.000
T4			X Brace	No	Yes	0.000	0.000
	258.000-254.000	4.000	Diag Down	No	Yes	0.000	0.000
T5	254.000-242.000	4.000	K Brace Left	No	Yes	0.000	0.000
T6	242.000-222.000	4.000	K Brace Right	No	Yes	0.000	0.000
T7	222.000-206.000	4.000	K Brace Right	No	Yes	0.000	0.000
T8	206.000-202.000	4.000	Diag Up	No	Yes	0.000	0.000
T9	202.000-198.000	4.000	X Brace	No	Yes	0.000	0.000
T10	198.000-194.000	4.000	Diag Up	No	Yes	0.000	0.000
T11	194.000-182.000	4.000	K Brace Right	No	Yes	0.000	0.000
T12	182.000-162,000	4.000	K Brace Left	No	Yes	0.000	0.000
T13	162.000-142.000	4.000	K Brace Right	No	Yes	0.000	0.000
T14	142.000-126.000	4.000	K Brace Right	No	Yes	0.000	0.000
T15	126.000-122.000	4.000	K Brace Left	No	Yes	0.000	0.000
T16	122.000-102,000	4.000	K Brace Right	No	Yes	0.000	0.000
T17	102.000-82.000	4.000	K Brace Left	No	Yes	0.000	0.000
T18	82.000-62,000	4.000	K Brace Right	No	Yes	0.000	0.000
T19	62.000-42.000	4.000	K Brace Left	No	Yes	0.000	0.000
T20	42.000-38.000	4.000	Diag Down	No	Yes	0.000	0.000
T21	38.000-34.000	4.000	Diag Up	No	Yes	0.000	0.000
T22	34.000-30.000	4.000	Diag Down	No	Yes	0.000	0.000
T23	30.000-26,000	4.000	Diag Up	No	Yes	0.000	0.000
T24	26.000-22.000	4.000	Diag Down	No	Yes	0.000	0.000
T25	22.000-18.000	4.000	Diag Up	No	Yes	0.000	0.000
T26	18.000-14.000	4.000	Diag Down	No	Yes	0.000	0.000
T27	14.000-10.000	4.000	Diag Up	No	Yes	0.000	0.000
T28	10.000-10.000	4.000	Diag Op Diag Down	No	Yes	0.000	0.000

Tower Section Geometry (cont'd)

tnx T	ower
tnv I	AWAY
UUAI	UNCI

SZS Engineering 4551 E Carriage Way Gilbert, AZ Phone: 480-528-0914 FAX:

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Project		Date
	Guyed Tower	00:36:24 10/26/17
Client		Designed by
		Samuel Gonzalez

Tower	Leg	Leg	Leg	Diagonal	Diagonal	Diagonal
Elevation	Туре	Size	Grade	Туре	Size	Grade
ft						
T1	Solid Round	1 3/4	A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36
276.000-265.500			(50 ksi)			(36 ksi)
T2	Solid Round	1 3/4	A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36
265.500-261.750			(50 ksi)			(36 ksi)
T3	Solid Round	1 3/4	A572-50	Single Angle	L1 3/4x1 3/4x3/16	`A36 ´
261.750-258.000			(50 ksi)	0 0		(36 ksi)
T4	Solid Round	1 3/4	A572-50	Single Angle	L1 3/4x1 3/4x3/16	`A36 ´
258.000-254.000			(50 ksi)			(36 ksi)
T5	Solid Round	1 3/4	A572-50	Single Angle	L1 3/4x1 3/4x3/16	`A36 ´
254.000-242.000			(50 ksi)	0 0		(36 ksi)
T6	Solid Round	1 3/4	A572-50	Single Angle	L1 3/4x1 3/4x3/16	`A36 ´
242.000-222.000			(50 ksi)	0 0		(36 ksi)
T7	Solid Round	2	À572-50	Single Angle	L2 1/2x2 1/2x1/4	A36
222.000-206.000			(50 ksi)			(36 ksi)
T8	Solid Round	2	À572-50	Single Angle	L2 1/2x2 1/2x3/8	A36
206.000-202.000			(50 ksi)	0 0		(36 ksi)
T9	Solid Round	2	A572-50	Single Angle	L2 1/2x2 1/2x3/8	A36
202.000-198.000			(50 ksi)	0 0		(36 ksi)
T10	Solid Round	2	À572-50	Single Angle	L2 1/2x2 1/2x3/8	A36
198.000-194.000			(50 ksi)	88		(36 ksi)
T11	Solid Round	2	A572-50	Single Angle	L2 1/2x2 1/2x1/4	A36
194.000-182.000			(50 ksi)	5B. •B. •	22 112/22 112/11/1	(36 ksi)
T12	Solid Round	2	A572-50	Single Angle	L2x2x1/4	A36
182.000-162.000			(50 ksi)	Single 1 mgic	Lana, III	(36 ksi)
T13	Solid Round	2	A572-50	Single Angle	L2x2x1/4	A36
162.000-142.000		_	(50 ksi)	ombie i mbie	BERENII	(36 ksi)
T14	Solid Round	2	A572-50	Single Angle	L2 1/2x2 1/2x1/4	A36
142.000-126.000		_	(50 ksi)	ombie i mbie	DZ IIZKZ IIZKII	(36 ksi)
T15	Solid Round	2	A572-50	Single Angle	L2x2x1/4	A36
126.000-122.000		_	(50 ksi)	ombio i mbio	CERERITY	(36 ksi)
T16	Solid Round	2	A572-50	Single Angle	L2x2x1/4	A36
122.000-102.000		_	(50 ksi)	ombio i mbio	EZAZANA	(36 ksi)
T17	Solid Round	2	A572-50	Single Angle	L2x2x3/16	A36
102.000-82.000		-	(50 ksi)	omgie i mgie	1.2.2.2.3710	(36 ksi)
T18	Solid Round	2	A572-50	Single Angle	L2x2x3/16	A36
82.000-62.000		_	(50 ksi)	ompio i mpio	ELKLASITO	(36 ksi)
T19	Pipe	2-Sr + 3X3X3/16	A572-50	Single Angle	L2x2x3/16	A36
62.000-42.000	- 1		(50 ksi)	Dingle 1 tingle	ELEKLASITO	(36 ksi)
T20	Solid Round	2	A572-50	Single Angle	L2x2x3/16	A36
42.000-38.000		-	(50 ksi)	omgie / mgie	EZXZX3/10	(36 ksi)
T21	Solid Round	2	A572-50	Single Angle	L2x2x3/16	A36
38.000-34.000		-	(50 ksi)	omgie / mgie	EZAZASITO	(36 ksi)
T22	Solid Round	2	A572-50	Single Angle	L2x2x3/16	A36
34.000-30.000	Sona Rouna	-	(50 ksi)	Single Angle	L2X2X3/10	(36 ksi)
T23	Solid Round	2	A572-50	Single Angle	L2x2x3/16	A36
30.000-26.000	Sona Rouna	2	(50 ksi)	Single Angle	L2X2X3/10	
T24	Solid Round	2	A572-50	Single Angle	L2x2x3/16	(36 ksi)
26.000-22.000	Sona Round	2		Single Angle	L2X2X3/10	A36
T25	Solid Round	2	(50 ksi) A572-50	Single Angle	L2x2x1/4	(36 ksi)
22.000-18.000	Cond Round	4	(50 ksi)	Single Angle	LZXZXI/4	A36
T26	Solid Round	2		Cinala Anala	10.0.14	(36 ksi)
18.000-14.000	Sonu Rounu	2	A572-50	Single Angle	L2x2x1/4	A36
T27	Solid Dound	2	(50 ksi)	0:	10.0.14	(36 ksi)
14.000-10.000	Solid Round	2	A572-50	Single Angle	L2x2x1/4	A36
	Calid Dawed	•	(50 ksi)	0'1- 1	100.00	(36 ksi)
T28 10.000-2.000	Solid Round	2	A572-50	Single Angle	L2x2x1/4	A36
***************************************			(50 ksi)	******		(36 ksi)

tnxTower

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	Guyed Tower	00:36:24 10/26/17
Client		Designed by
		Designed by Samuel Gonzalez

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
TI	Single Angle	L2x2x3/16	A36	Flat Bar		A36
276.000-265.500			(36 ksi)			(36 ksi)
T19	Single Angle	L2 1/2x2 1/2x1/4	A36	Flat Bar		A36
62.000-42.000	_		(36 ksi)			(36 ksi)

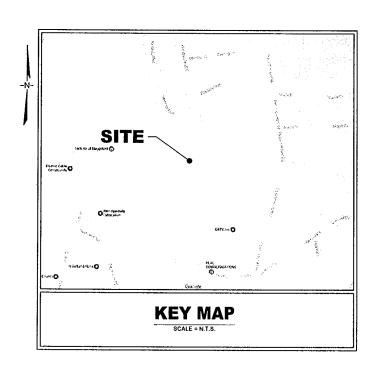
Tower Section Geometry (cont'd)

Tower	No.	Mid Girt	Mid Girt	Mid Girt	Horizontal	Horizontal	Horizontal
Elevation	of	Туре	Size	Grade	Туре	Size	Grade
	Mid						
ft	Girts		~*************************************			***************************************	
T1	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
276.000-265.500				(36 ksi)			(36 ksi)
T2	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
265.500-261.750				(36 ksi)			(36 ksi)
T3	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
261.750-258.000				(36 ksi)			(36 ksi)
T4	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
258.000-254.000				(36 ksi)			(36 ksi)
T5	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
254.000-242.000				(36 ksi)			(36 ksi)
Т6	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
242.000-222.000				(36 ksi)			(36 ksi)
T7	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
222.000-206.000				(36 ksi)			(36 ksi)
T8	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
206.000-202.000				(36 ksi)			(36 ksi)
T10	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
198.000-194.000		D1 . D		(36 ksi)			(36 ksi)
T11	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
194.000-182.000		DI . D		(36 ksi)	a:	** * ***	(36 ksi)
T12	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
182.000-162.000	N 1	EL . D		(36 ksi)	0: 1 4 1	10.0.046	(36 ksi)
T13	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
162.000-142.000	Mana	Place Day		(36 ksi)	0: 1 4 1	101/0 01/0 1/4	(36 ksi)
T14	None	Flat Bar		A36	Single Angle	L2 1/2x2 1/2x1/4	A36
142.000-126.000	Mana	Plat Dan		(36 ksi)	Circula Arrala	10.1/00.1/01/4	(36 ksi)
T15 126.000-122.000	None	Flat Bar		A36	Single Angle	L2 1/2x2 1/2x1/4	A36
	Mana	Clas Dan		(36 ksi)	Oinsta Anata	1002/16	(36 ksi)
T16 122.000-102.000	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
T17	Mana	Clas Dan		(36 ksi)	Oinele Anele	1002/16	(36 ksi) A36
102.000-82.000	None	Flat Bar		A36	Single Angle	L2x2x3/16	
	Mono	Clot Don		(36 ksi)	Cinala Amala	1.222/16	(36 ksi)
T18 82.000-62.000	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
82.000-62.000 T19	None	Flat Bar		(36 ksi) A36	Cinala Anala	1.25252/16	(36 ksi) A36
62.000-42,000	None	riat Bar			Single Angle	L2x2x3/16	
	Mono	Elet Der		(36 ksi)	Cinala Anala	1.2.2.2/16	(36 ksi)
T20 42.000-38.000	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
	None	Flot Dor		(36 ksi)	Cinala Anala	1.20202/16	(36 ksi)
T21 38.000-34.000	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
T22	Mona	Clot Dar		(36 ksi)	Cinala Anala	1.25252/16	(36 ksi)
34.000-30.000	None	Flat Bar		A36	Single Angle	L2x2x3/16	A36
54.000-30.000				(36 ksi)			(36 ksi)



"DO MACRO UPGRADE"

CT03XC025 0 CLARK HILL ROAD NAUGATUCK, CT 06770 NEW HAVEN COUNTY



SITE LOCATION INFORMATION			
SITE ID NUMBER:	CT03XC025		
SITE NAME:	SMALLER WTXX TOWER		
SITE ADDRESS:	37 PEACH ORCHARD RD. PROSPECT, CT 06712		
PARCEL ID:	C0048100		
CENSUS TRACT:	130200		
CENSUS BLOCK:	3010		
PROPERTY OWNER:	COUNTERPOINT COMMUNICATIONS		
APPLICANT:	SPRINT 6100 SPRINT PARKWAY OVERLAND PARK, KS 66251		
COUNTY:	HARTFORD COUNTY		

SITE CHARACTERISTICS				
LATITUDE:	41.394239			
LONGITUDE:	-73.107837			
STRUCTURE TYPE:	GUYED TOWER			
LOCATION OF PROPOSED EQUIPMENT:	EXISTING ANTENNA FRAME			
STRUCTURE HEIGHT:	±276'-0" AGL			
ANTENNA (RAD CENTER):	±208'-0" AGL (ALPHA) ±208'-0" AGL (BETA) ±208'-0" AGL (GAMMA)			

SHEET INDEX			
SHEET NO.	SHEET DESCRIPTION		
T-1	TITLE SHEET		
C-1	SITE PLAN & GENERAL NOTES		
C-2	EXISTING & FINAL ANTENNA PLANS		
C-3	TOWER ELEVATION, B.O.M., & FINAL EQUIPMENT PLAN		
C-4	CONSTRUCTION DETAILS		
C-5	FIBER PLUMBING DIAGRAM		
C-6	CABLE COLOR CODING		
C-7	EQUIPMENT DETAILS		
E-1	GROUNDING DETAILS		
E-2	DC POWER DETAILS & PANEL SCHEDULES		

SCOPE OF WORK

THE APPLICANT PROPOSES TO INSTALL THREE (3) NEW ANTENNAS AND THREE (3) NEW RADIO HEADS ON EXISTING/PROPOSED MOUNTS (TYPICAL FOR ONE (1) PER SECTOR)







	SCHEDULE OF REVISIONS						
7							
•							
5							
•	11/02/17	REVISED PER CLIENT COMMENTS					
,	10/10/17	REVISED PER CLIENT COMMENTS					
2	09/26/17	ISSUED FOR CONSTRUCTION					
1	08/16/17	PER NEW RFDS					
•	05/16/17	INITIAL SUBMISSION					
REV.	DATE	DESCRIPTION OF CHANGES					

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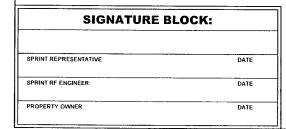
0 CLARK HILL ROAD NAUGUTUCK, CT 06770 NEW HAVEN COUNTY

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TITLE SHEET

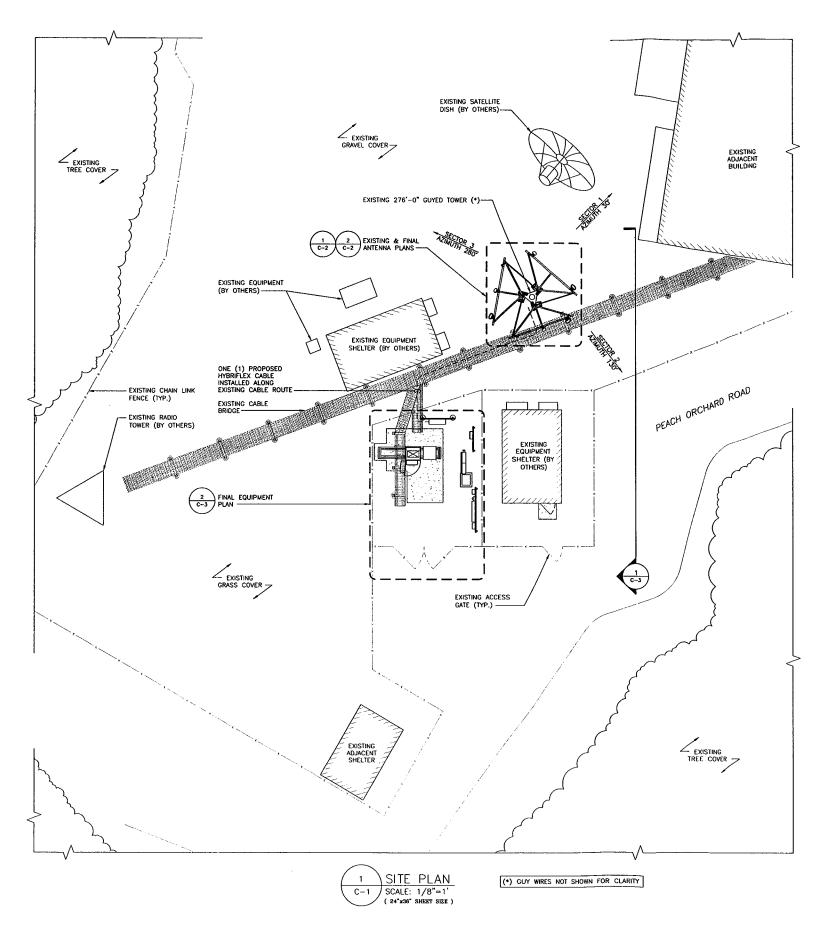
DRAWING SHEET: 1 OF 10

T-1



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GENERAL NOTES:

- SUBJECT PROPERTY IS KNOWN AS TAX PARCEL ID C0048100, CENSUS TRACT 130200, CENSUS BLOCK 3010 AS SHOWN THE OFFICIAL TAX MAP OF THE TOWN OF PROSPECT, CT.
- 2. THE APPLICANT PROPOSES TO INSTALL THREE (3) NEW ANTENNAS AND THREE (3) NEW RADIO HEADS ON EXISTING/PROPOSED MOUNTS (TYPICAL FOR ONE (1) PER SECTOR).
- CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY SPRINT, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
- 4. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND EACH OF THE DRAWINGS HAVE BEEN REVISED TO INDICATED "ISSUED FOR CONSTRUCTION".
- SITE INFORMATION SHOWN TAKEN FROM PLANS PREPARED BY FULLERTON ENGINEERING DESIGN FOR SPRINT'S INSTALLATION ON THIS FACILITY. DRAWINGS ENTITLED "SPRINT, SITE NAME: SMALLER WITX TOWER, SPRINT NUMBER: CT03XC025" DATED 01/12/15 REVISED 09/08/15, ADDITIONAL SITE INFORMATION WAS SUPPLEMENTED WITH A LIMITED SITE VISIT BY COM-EX CONSULTANTS 05/10/17.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 8. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THIS PROJECT IN ACCORDANCE WITH THE OVERALL INTENT OF THESE DRAWINGS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMERCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- 10. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 11. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 12. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- 13. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- 14. THE CONSTRUCTION CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ALL CONSTRUCTION MEANS AND METHODS. THE CONSTRUCTION CONTRACTOR IS ALSO RESPONSIBLE FOR ALL JOB SITE SAFETY.
- 15. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
- 16. THE CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. THE CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND RELATED PARTIES. THE SUBCONTRACTOR SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT EFFECTS THEIR WORK.
- 17. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON THE SITE AT ALL TIMES AND INSURE THE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA CONTRACTOR FURNISH 3 SETS OF REDLINE "AS-BUILT" DRAWINGS TO SPRINT UPON COMPLETION OF THE WORK.
- 18. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAT BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL INCLUDED AS PART OF THE WORK.
- 19. ALL MATERIAL PROVIDED BY IS TO BE REVIEWED BY THE CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDE MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
- 20. THE MATERIALS INSTALLED SHALL MEET REQUIREMENTS OF CONTRACTORS DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
- 21. THE CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATIONS OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC..
- 22. THE CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 23. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.
- 24. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAND PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- 25. THE CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
- 27. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS UNILESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
- 28. THE CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
- 29. THE CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- 30. BEFORE FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.
- 31. DESIGN REQUIREMENTS PER INTERNATIONAL BUILDING CODE 2015 AND THE EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.







	SCHEDULE OF REVISIONS						
7							
•							
5							
4	11/02/17	REVISED PER CLIENT COMMENTS					
3	10/10/17	REVISED PER CLIENT COMMENTS					
2	09/26/17	ISSUED FOR CONSTRUCTION					
1	08/16/17	PER NEW RFDS					
•	05/16/17	INITIAL SUBMISSION					
REV.	DATE	DESCRIPTION OF CHANGES					

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 AM

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 SCALE:
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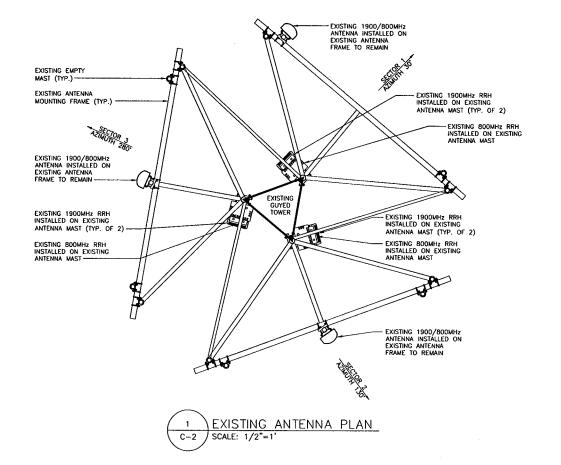


NAUGUTUCK, CT 06770 NEW HAVEN COUNTY

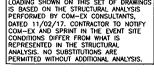
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SITE PLAN & GENERAL NOTES

DRAWING SHEET: 2 OF 10











6100 SPRINT PARKWAY OVERLAND PARK, KS 66251



REV.	DATE	DESCRIPTION OF CHANGES		
•	05/16/17	INITIAL SUBMISSION		
1	08/16/17	PER NEW RFDS		
2	09/26/17	ISSUED FOR CONSTRUCTION		
,	10/10/17	REVISED PER CLIENT COMMENTS		
4	11/02/17	REVISED PER CLIENT COMMENTS		
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7				
	SCHEDULE OF REVISIONS			

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CHECKED BY:	DTS
SCALE:	AS NOTED
JOB NO:	17041-CHE

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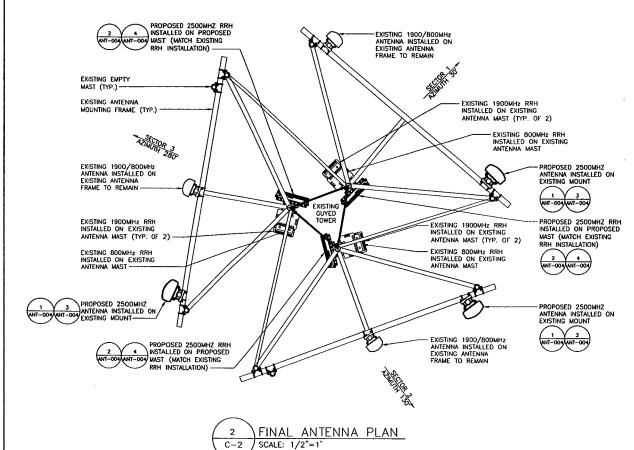


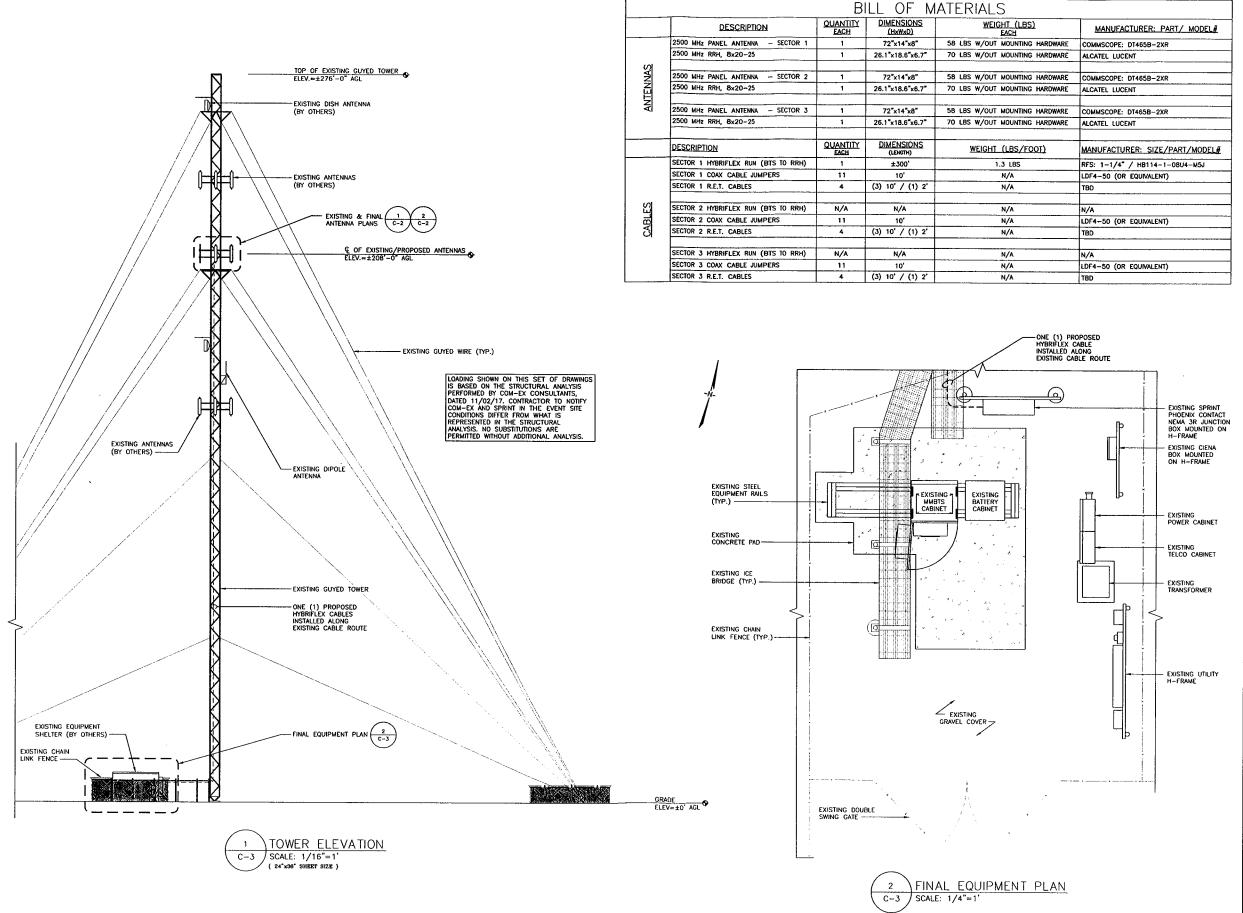
O CLARWAILL ROAD NAUGUTUCK, CT 06770 NEW HAVEN COUNTY

DRAWING TITLE:

EXISTING & FINAL **ANTENNA PLANS**

DRAWING SHEET: 3 OF 10





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115 Route 46
Suite E39
Hounton Lokes, NJ 07046
PHONE: 882.209.4300
FAX: 882.209.4301



DO SPRINT PARKWAY (ERLAND PARK, KS 6625)



Γ	SCHEDULE OF REVISIONS				
7					
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5					
4	11/02/17	REVISED PER CLIENT COMMENTS			
3	10/10/17	REVISED PER CLIENT COMMENTS			
2	09/26/17	ISSUED FOR CONSTRUCTION			
1	08/16/17	PER NEW RFDS			
•	05/16/17	INITIAL SUBMISSION			
REV. NO.	DATE	DESCRIPTION OF CHANGES			

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SCALE:	AS NOTED
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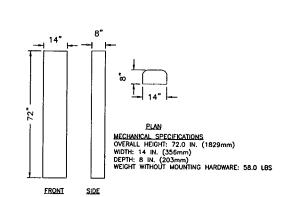


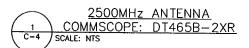
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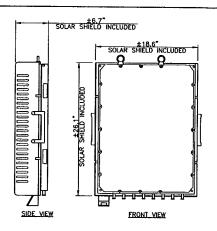
DRAWING TITLE:

TOWER
ELEVATION, B.O.M.
& FINAL
EQUIPMENT PLAN

DRAWING SHEET: 4 OF 10

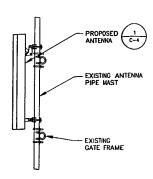




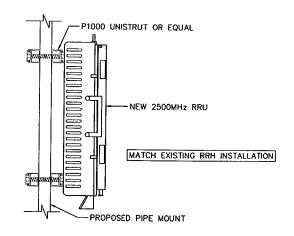




2 2500MHz RRH DETAIL C-4 SCALE: N.T.S.



SECTOR 1, 2, & 3 ANTENNA
INSTALLATION DETAIL
SCALE: N.T.S.



RRH MOUNTING DETAIL
SCALE: N.T.S.







	SCHEDULE OF REVISIONS				
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5					
4	11/02/17	REVISED PER CLIENT COMMENTS			
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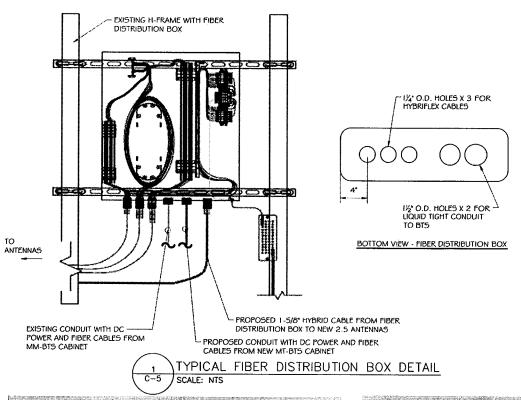


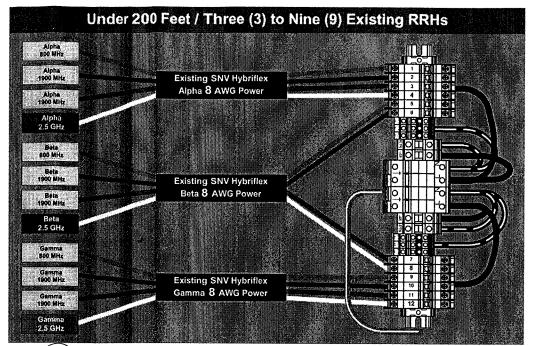
O CLARK HILL ROAD NAUGUTUCK, CT 06770 NEW HAVEN COUNTY

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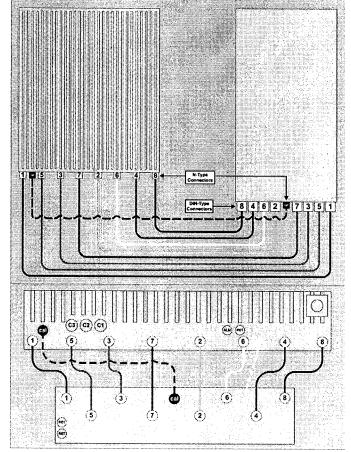
CONSTRUCTION DETAILS

DRAWING SHEET: 5 OF 10



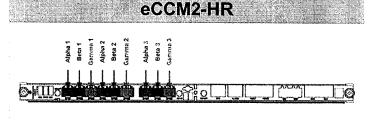


2 RRH TO DISTRIBUTION BOX POWER CONNECTIVITY DETAIL
C-5 SCALE: NTS

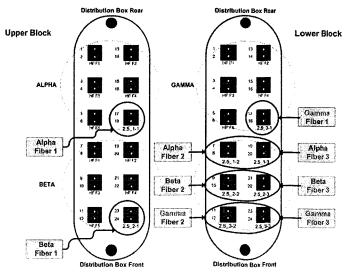


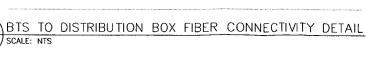
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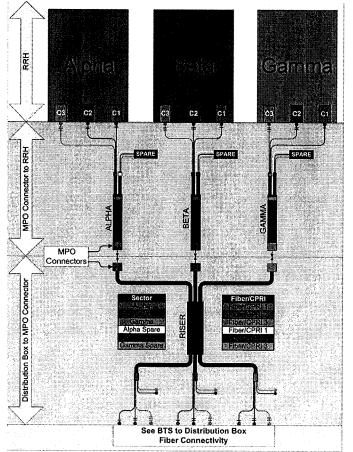
SCALE: NTS



Distribution Box Fiber Panel







SCALE: NTS

RRH TO DISTRIBUTION BOX FIBER CONNECTIVITY DETAIL

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CTOSKED25 O CLARK HILL ROAD NAUGUTUCK, CT 06770 NEW HAVEN COUNTY

DRAWING TITLE:

FIBER PLUMBING DIAGRAM

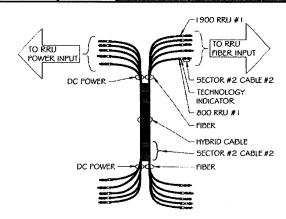
DRAWING SHEET: 6 OF 10

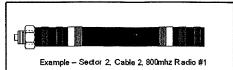
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2.5 FREQUENCY	INDICA	TOR	ID
2500 -1	YEL	WHT	CINE SEE
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2500 -4	YEL	WHT	ENDORSE S
2500 -5	YEL	WHT	\$LT
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2500 -7	YEL	WHT	WHT
2500 -8	YEL	WHT	

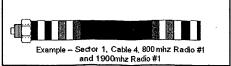
NV		
FREQUENCY	INDICATOR	ID
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1900-1	YEL	
1900-2	YEL	ER N
1900-3	YEL	1001
1900-4	YEL	SLT
800-1	YEL	ORG
RESERVED	YEL	WHT
RESERVED	YEL	

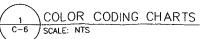
			Second	
Sector	Cable	First Ring	Ring	Third Ring
1 Alpha	1		No Tape	No Tape
1	2	:	No Tape	No Tape
1	3		No Tape	No Tape
1	4	White	No Tape	No Tape
1	5		No Tape	No Tape
1	6	Grey	No Tape	No Tape
1	7	Marian (12)	No Tape	No Tape
1	8	\$50 9 76 (ng (\$55)	No Tape	No Tape
2 Beta	1			No Tape
2	2	· ·		No Tape
2	3			No Tape
2	4	White	White	No Tape
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2	6	Grey	Grey	No Tape
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3 Gamma	1			
3	2			
3	3	100		(A. A. A. A.
3	4	White	White	White
3	5			
3	6	Grey	Grey	Grey
3	7		[Property	1 55 72 (10) 55 5
3	8	\$ (0) and (e) \$	a (elejaje) a	Draine











CABLE MARKING NOTES

- ALL CABLES SHALL BE MARKED WITH 2" WIDE, UV STABILIZED, UL APPROVED TAPE.
- 2. THE FIRST RING SHALL BE CLOSEST TO THE END
 OF THE CABLE AND SPACED APPROXIMATELY 2"
 FROM THE END CONNECTOR, WEATHERPROOFING,
 OR BREAKOUT UNIT. THERE SHALL BE 1" SPACE
 BETWEEN EACH RING.
- 3. A 2" GAP SHALL SEPARATE THE CABLE COLOR CODE FROM THE FREQUENCY COLOR CODE. THE 2" COLOR RINGS FOR THE FREQUENCY CODE SHALL BE PLACED NEXT TO EACH OTHER WITH NO SPACES.
- 4. THE 2" COLORED TAPE(S) SHALL BE WRAPPED A MINIMUM OF 3 TIMES AROUND THE INDIVIDUAL CABLES, AND THE TAPE SHALL BE KEPT IN THE SAME LOCATION AS MUCH AS POSSIBLE.
- 5. SITES WITH MORE THAN FOUR (4) SECTORS WILL REQUIRE ADDITIONAL RINGS FOR EACH SECTOR, FOLLOWING THE PATTERN. HIGH CAPACITY SITES WILL USE THE SECOND CABLE IDENTIFIED BY BLUE BANDS OF TAPE
- HYBRID FIBER CABLE SHALL BE SECTOR IDENTIFIED INSIDE THE CABINET ON FREQUENCY BUNDLES, ON THE SEALTIFE, ON THE MAIN LINE UPON EXIT OF SEALTIFE, AND BEFORE AND AFTER THE BREAKOUT UNIT (MEDUSA), AS WELL AS BEFORE AND AFTER ANY ENTRANCE OR EXIT.
- HFC "MAIN TRUNK" WILL NOT BE MARKED WITH THE FREQUENCY CODES, AS IT CONTAINS ALL FREQUENCIES.
- 8. INDMIDUAL POWER PAIRS AND FIBER BUINDLES SHALL BE LABELED WITH BOTH THE CABLE AND FREQUENCY.







	SCI	HEDULE OF REVISIONS
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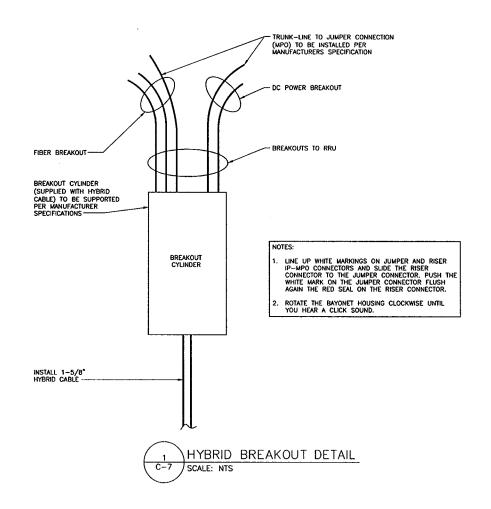


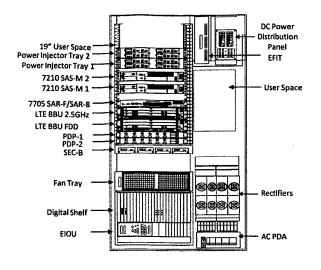
CT03%C035...... 0 CLARK HILL ROAD NAUGUTUCK, CT 06770 NEW HAVEN COUNTY

DRAWING TITLE:

CABLE COLOR CODING

DRAWING SHEET: 7 OF 10





2 EXISTING MMBS CABINET C-7 SCALE: NTS





OVERLAND PARK, KS 662



	sc	HEDULE OF REVISIONS
7		
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4	11/02/17	REVISED PER CLIENT COMMENTS
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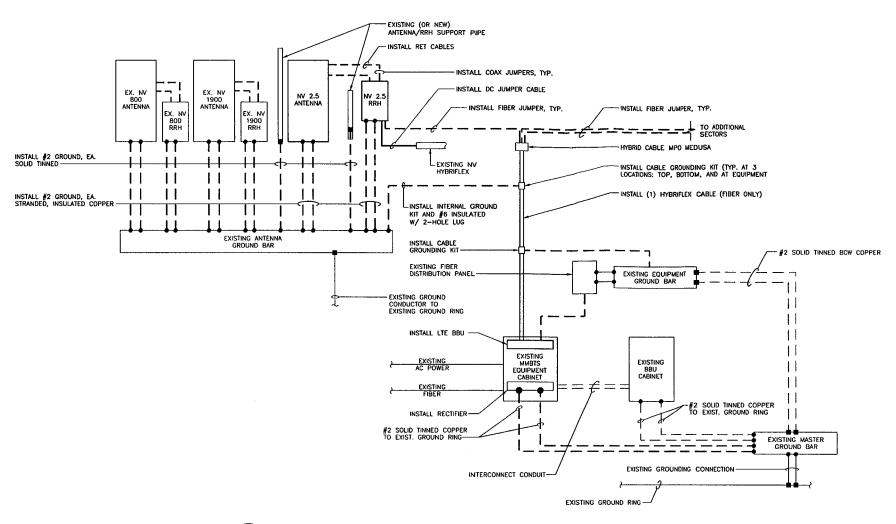


O CLARWHILL ROAD
NAUGUTUCK, CT 06770
NEW HAVEN COUNTY

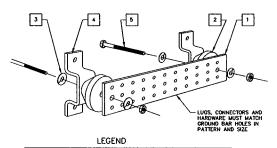
DRAWING TITLE:

EQUIPMENT DETAILS

DRAWING SHEET: 8 OF 10



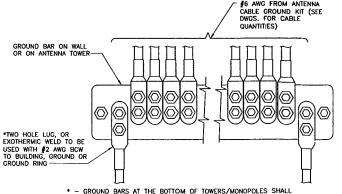
TYPICAL POWER & GROUNDING ONE-LINE DIAGRAM SCALE: N.T.S.



COPPER GROUND BAR, 7/16"X 4" X 20", NEWTON INSTRUMENT CO. CAT. NO. 8-5142. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION NSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8. WALL MOUNTHO BRACKET, NEWTON INSTRUMENT CO. CAT NO. 4-8055, 5/8-11 X 1" H.H.C.S.BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1

GROUN	ID BAR SCHEDI	JLE	
QTY.	MANUFACTURER	CAT. NO.	REMARKS
2	HARGER	GB14420TMGB	OR EQUAL
3	HARGER	GB14412TMGB	OR EQUAL
	оту.	OTY. MANUFACTURER 2 HARGER	2 HARGER GB14420TMGB

TYPICAL GROUND BAR DETAIL SCALE: NTS

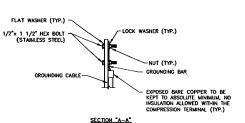


GROUND BARS AT THE BOTTOM OF TOWERS/MONOPOLES SHALL ONLY USE EXOTHERMIC WELDS.

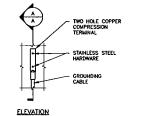
- ATTACH "DO NOT DISCONNECT" LABELS TO GROUND BARS. CAN USE BRASS TAG "DO NOT DISCONNECT" AT EACH HYBRIFLEX GROUND POINT OR BACK-A-LITE PLATE LABEL ON GROUND BAR.

- CONNECT SEQUENCE- BOLT/WASHER/NO-OX/GROUND BAR/NO-OX/WASHER/LOCK-WASHER/NUT. THIS IS REPEATED FOR EACH LUG CONNECTION POINT.

TYPICAL GROUND BAR CONNECTION PLAN SCALE: NTS



DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT



TYPICAL GROUND BAR CONNECTION DETAIL SCALE: NTS

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- 3. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- 4. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THNN INSULATION.
- 6. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- 8. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 9. GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUND HYBRIFLEX CABLE SHIELDS AT 3 LOCATIONS USING MANUFACTURER'S HYBRIFLEX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- 11. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- 12. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 15. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- BOND ANTENNA MOUNTING BRACKETS, HYBRIFLEX CABLE GROUND KITS, AND RRHs TO EGB PLACED NEAR THE ANTENNA LOCATION.
- 17. BOND ANTENNA EGB'S AND MGB TO GROUND RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULT FOR PROJECT CLOSE—OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, HYBRIFLEX CABLES, AND RRH RETURN-LOSS AND DISTANCE TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- 20. CONTRACTOR (CERTIFIED ELECTRICIAN) SHALL CHECK CAPACITY OF EXISTING SERVICE & PANEL ON SITE TO DETERMINE IF CAPACITY EXISTS TO ACCOMMODATE THE ADDED LOAD OF THIS PROJECT. ADVISE ENGINEER OF ANY DISCREPANCY.









REV.	DATE	DESCRIPTION OF CHANGES
•	05/16/17	INITIAL SUBMISSION
1	08/16/17	PER NEW RFDS
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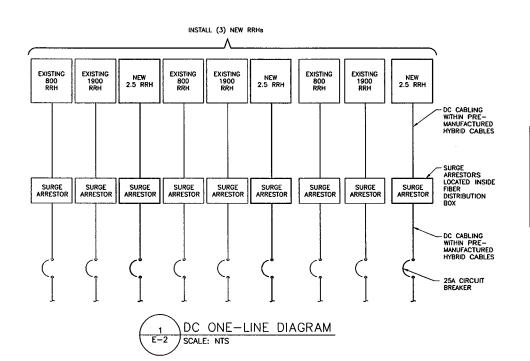
СТ03%0025¹¹ 0 CLARK HILL ROAD NAUGUTUCK, CT 06770 **NEW HAVEN COUNTY**

DRAWING TITLE:

GROUNDING DETAILS

DRAWING SHEET: 9 OF 10

E-1



		A/C PANEL	SCHEDULE		
VOLTAGE:	240V/120	PANEL STATUS:	EXISTING	N TO GROUND BOND:	YES
MAIN BREAKER:	200 AMP	MODEL NUMBER:	TBD	INTERNAL TVSS:	YES
MOUNT:	AT GRADE	PHASE:	1	WIRE:	3
ENCLOSURE:	NEMA 3R	BUSS RATING:	200 AMP	GROUND BAR:	YES
		NEUTRAL BAR:	YES		



EXISTING 200A METER/DISCONNECT SWITCH

 \sim (2)

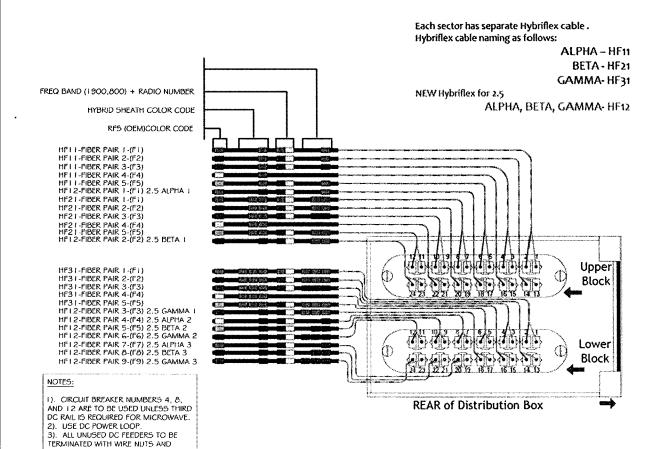
200A 200A

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TO EXISTING LOADS (REFER TO PANEL

SCHEDULE)

EXISTING 200A SPRINT PPC WITH EXISTING 100A CIRCUIT TO CABINET- - EXISTING 200A GENERATOR RECEPTACLE INSTALL NEW 2.5
EQUIPMENT AND
RECTIFIER UNIT IN
EXISTING MM-BTS
CABINET



SCALE: NTS

TYPICAL FIBER DISTRIBUTION

4). REMOVE ALL DEBRIS FROM INTERIOR OF FIBER DISTRIBUTION BOX

WHEN COMPLETE.

	l		
		CIRCUIT SCHEE	DULE
NO.	FROM	то	CONFIGURATION
(1)	UTILITY SOURCE	METER/ DISCONNECT	EXISTING
(2)	METER/ DISCONNECT	TRANSFER & LOAD CENTER	EXISTING
(3)	TRANSFER & LOAD CENTER	GENERATOR RECEPTACLE	EXISTING
4	TRANSFER & LOAD CENTER	EX. MMBS CABINET	(3) #2 AWG, (1) #8 GNE IN 1-1/2" CONDUIT
(5)	TRANSFER & LOAD CENTER	EX. BBU CABINET	(2) #12 AWG, (1) #12 GND IN 3/4" CONDUIT

TO EXISTING
LOADS TO
PANEL
SCHEDULE
100A

15A

ELECTRICAL ONE—LINE DIAGRAM

E-2 SCALE: NTS

COM > EX

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115 Route 46
Salte 529
Mountoin Lokee, NJ 07046
PHOME: 682-2094-300

FAX: 862-2094-301

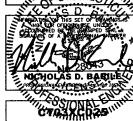




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users own risk. If used in a year other than
that specing thy intended user yell hold
Com-Ex Consultants, har pleas from yell
against beth 1888.



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NEW HAVEN COUNTY

DRAWING TITLE:

DC POWER
DETAILS & PANEL
SCHEDULES

DRAWING SHEET: 10 OF 10

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