



**Crown Castle**  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065

April 19, 2018

Melanie A. Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RE: Notice of Exempt Modification for Sprint Crown Site BU: 876362**  
**Sprint Site ID: CT23XC508**  
**338 Oxford Road, Oxford, New Haven County, CT 06478**  
**Latitude: 41° 25' 40.77"/ Longitude: -73° 6' 30.75"**

Dear Ms. Bachman:

Sprint currently maintains (3) antennas at the 152-foot level of the existing 150-foot monopole at 338 Oxford Road, Oxford, Connecticut 06478. The tower is owned by Crown Castle. The property is owned by William and Ellen Fritz. Sprint intends to install (3) antennas, (1) hybrid, and (3) RRHs.

A request for original zoning documents was sent to the Town of Oxford but has not been answered. The Connecticut Siting Council's Telecommunications Database provides the Council approved the tower December 14, 2000, however a diligent search of the available online records was not fruitful for obtaining a copy of said decision.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to Mr. George Temple, First-Selectman, Town of Oxford, Mr. Jeffrey Lutz, Chairman of the Town of Oxford's Planning & Zoning Commission, the property owners Mr. and Mrs. William Fritz, and Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.

Melanie A. Bachman

April 19, 2018

Page 2

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 modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,



Anne Marie Zsamba, Esq.

Real Estate Specialist

3 Corporate Park Drive, Suite 101, Clifton Park, NY 12065

(518) 350-3639

annemarie.zsamba.contractor@crowncastle.com

Attachments:

Tab 1: Exhibit-1: Compound plan and elevation depicting the planned changes

Tab 2: Exhibit-2: Structural Modification Report

Tab 3: Exhibit-3: General Power Density Table Report (RF Emissions Analysis Report)

cc: Mr. George Temple, First-Selectman  
Town of Oxford  
486 Oxford Road  
Oxford, CT 06478

Planning & Zoning Commission  
Mr. Jeffrey Lutz  
Town of Oxford  
486 Oxford Road  
Oxford, CT 06478

Mr. & Mrs. William Fritz  
338 Oxford Road  
Oxford, CT 06478

The Foundation for a Wireless World.

CrownCastle.com

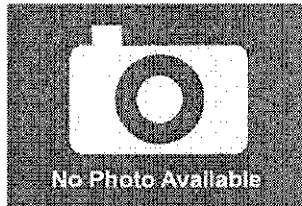


### Property Information

Owner	CROWN CASTLE USA INC
Address	338 OXFORD RD
Mailing Address	PMB 331 MCMURRAY, PA 15317
Land Use	- Cell Tower
Land Class	I

Census Tract	
Neighborhood	
Zoning	
Acreage	0
Utilities	
Lot Setting/ Desc	/

### Photo



### PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	0	0
Outbuildings	691200	483800
Improvements	691200	483800
Extras	0	0
Land	0	0
Total	691200	483800
Previous		

### Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Total Rooms	
Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Flat
Roof Cover	Concrete Tile

#### EXTERIOR WALLS:

Primary	MASONRY
Secondary	Stone/Masonry

#### INTERIOR WALLS:

Primary	Minim/Masonry
Secondary	

#### FLOORS:

Primary	Concr-Finished
Secondary	

#### HEATING/AC:

Heating Type	None
Heating Fuel	Coal or Wood
AC Type	None

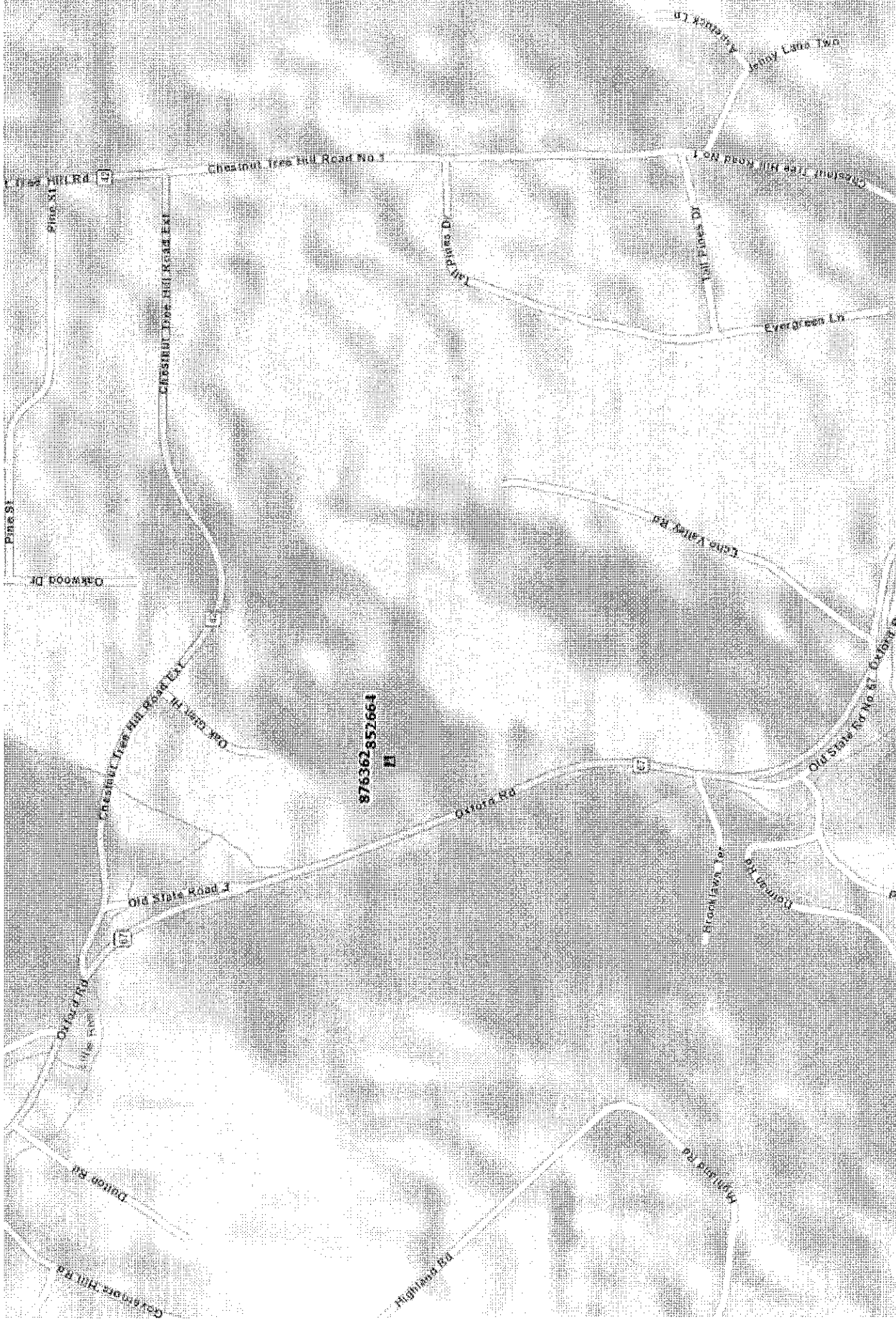
#### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

#### SALES HISTORY:

Sale Date	10/1/2010
Sale Price	0
Book/ Page	000/ 000

BU 876362



876362852664

II



# 2.5 EQUIPMENT DEPLOYMENT

**APPROVED**  
By Craig Koppang at 8:04 am, Oct 17, 2017

SITE NUMBER:  
**CT23XC508**

SITE NAME:  
**OXFORD/FRITZ PROPERTY**  
338 OXFORD ROAD  
OXFORD, CT 06478

CROWN ID#: 876362  
CROWN SITE NAME: OXFORD/FRITZ PROPERTY

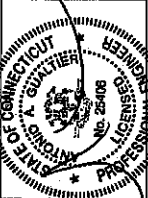


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TECTONIC Engineering & Surveying  
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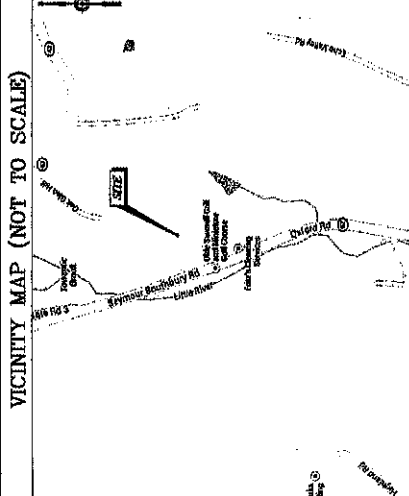
NO.	DATE	DESCRIPTION	BY
1	10/09/14	FOR CONSTRUCTION DE	JT
2	10/09/14	FOR CONSTRUCTION RE	RE

REVIEWED BY  
**DMH/TMG**



PROJECT NO: 887-CT-2008  
SITE NAME:  
**OXFORD/FRITZ PROPERTY**  
SITE ADDRESS:  
338 OXFORD ROAD  
OXFORD, CT 06478  
SHEET TITLE:  
**T-1**  
SHEET NO:  
**T-1**

SIT. NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
SR-1	GENERAL NOTES
SR-2	GENERAL NOTES
A-1	SITE PLAN
A-2	ELEVATION
A-3	DETAILED EQUIPMENT LAYOUT PLANS
A-4	ANTENNA LAYOUT PLANS
A-5	BAW WISDOM DIAGRAM
A-6	CABLE DETAILS
B-1	EQUIPMENT DETAILS
B-2	EQUIPMENT SCHEDULE DETAILS
B-3	STRUCTURAL & FOUNDATION PLANS
B-4	GROUNDING DETAILS & NOTES



CONSTRUCTION:	DATE:



**SHEET INFORMATION**

**GENERAL NOTES**

1. THIS IS AN UNLICENSED PRECONSTRUCTION FACILITY AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.

2. THE FOLLOWING SHALL APPLY TO ALL ANTENNA FOUNDATIONS AND FOUNDATIONS ON THE SITE AND SHALL MAINTAIN A MINIMUM CLEARANCE OF 10 FEET TO ALL POWER LINES AND STRUCTURES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL POWER LINES AND STRUCTURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND MAY INCUR CHARGES OR MODIFICATIONS.

3. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

• 2008 STATE OF CONNECTICUT BUILDING CODE  
• NATIONAL ELECTRICAL CODE, LATEST EDITION  
• NATIONAL MECHANICAL CODE, LATEST EDITION

**PROJECT DESCRIPTION**

1. (1) NEW 2.5 EQUIPMENT RACK INSIDE EXIST BAWETS CABINET.  
2. (2) NEW RES APX1044-C-120 ANTENNAS.  
3. (3) NEW TD-REB200-25 FIBER.  
4. (4) NEW 1-1/4" FIBERD CABLES.

CALL TOLL FREE FOR CONNECTICUT  
800-855-8888





**Sprint**  
 2 EPOCHWAY DEPLOYMENT  
 CENTER  
 OVERLAND PARK, KANSAS 66201

**CROWN CASTLE**

**TECTONIC**  
 A Division of  
 Tectonics Engineering & Surveying  
 Consultants P.C.  
 1278 Route 300  
 Middletown, CT 06457  
 Phone: (860) 347-6888  
 Fax: (860) 347-8703  
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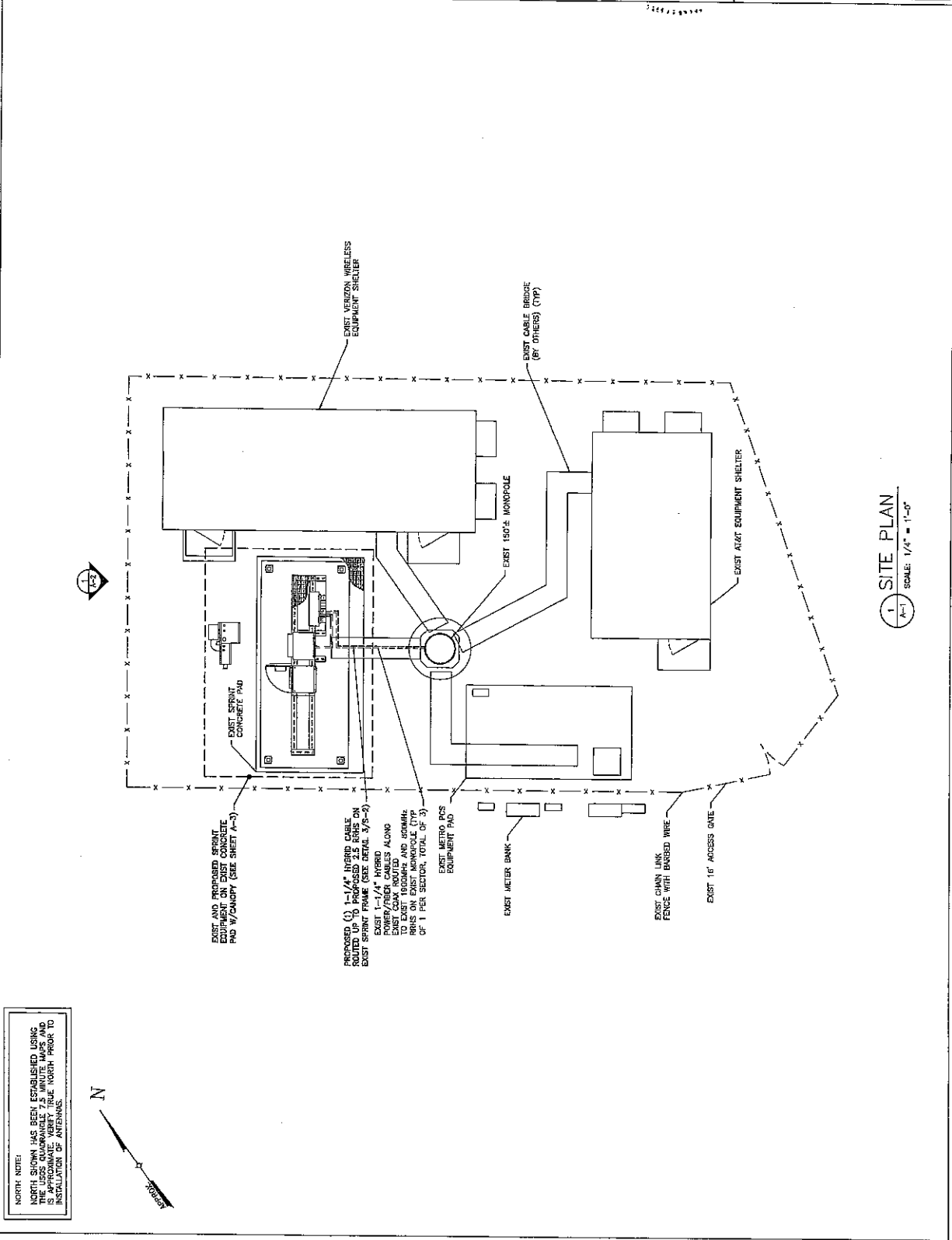
SUBMITTALS	
NO.	DESCRIPTION
0	07/20/14 FOR COMMENT
1	10/30/14 FOR CONSTRUCTION
2	10/11/17 FOR CONSTRUCTION

DATE	REVIEWED BY
10/17/17	10/17/17



SITE NUMBER: CT263C508  
 SITE NAME: OXFORD/FRITZ PROPERTY  
 SITE ADDRESS: 888 OXFORD ROAD  
 OXFORD, CT 06478

SHEET TITLE: SITE PLAN  
 SHEET NO: A-1



**NORTH NOTE:**  
 NORTH SHOWN HAS BEEN ESTABLISHED USING  
 THE STATE PLANNING AND ZONING  
 COMMISSION'S APPROXIMATE MERRY TREE NORTH POOR TO  
 INSTALLATION OF ANTENNAE.



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





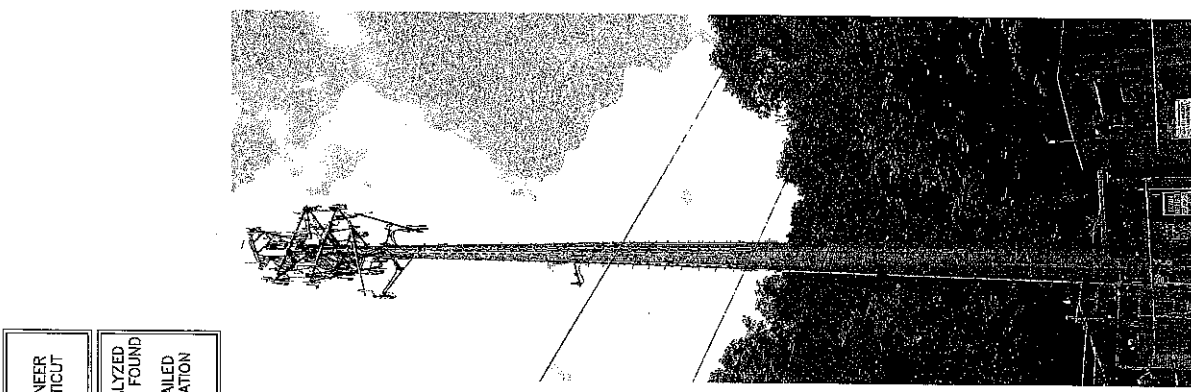
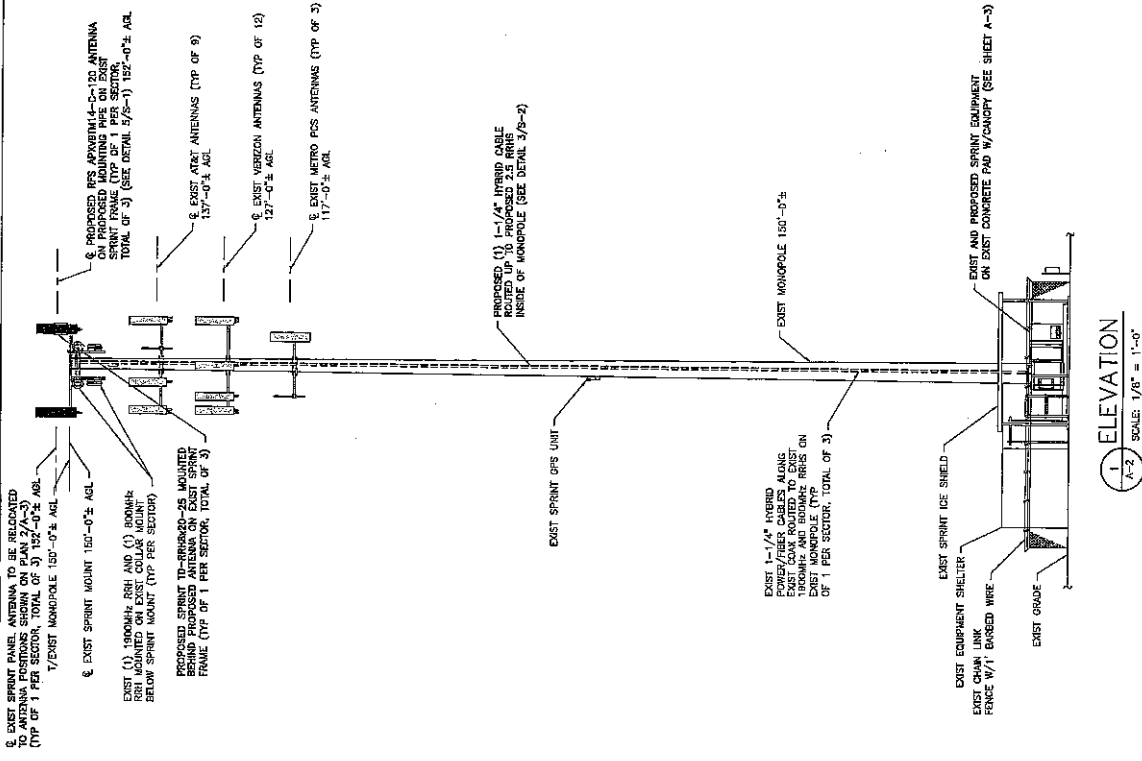
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SUBMITTALS			
NO.	DATE	DESCRIPTION	BY
0	07/02/14	FOR COMMENT	JL
1	07/02/14	FOR CONSTRUCTION	DC
2	09/01/17	FOR CONSTRUCTION	FB



DATE: 10/11/17  
 REVIEWED BY: [Signature]  
 PROJECT NO: 9887C2XK508  
 SHEET NUMBER: C2XK508  
 SHEET NAME: OXFORD/FRITZ PROPERTY  
 SHEET ADDRESS: 888 OXFORD ROAD OXFORD, CT 06478  
 SHEET TITLE: ELEVATION  
 SHEET NO: A-2

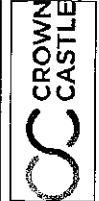


THE EXISTING MONOPOLE SHALL BE ANALYZED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT (TO BE COORDINATED BY OTHERS).

THE EXISTING MOUNT HAS BEEN ANALYZED BY TECTONIC ENGINEERING AND WAS FOUND TO BE ADEQUATE TO SUPPORT THE PROPOSED SPRINT UPGRADE AS DETAILED IN THE STRUCTURAL ANALYSIS EVALUATION LETTER DATED 10/11/17.



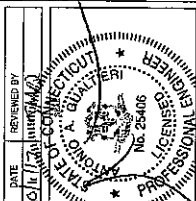




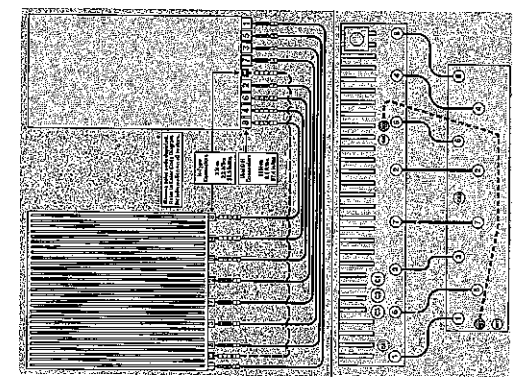
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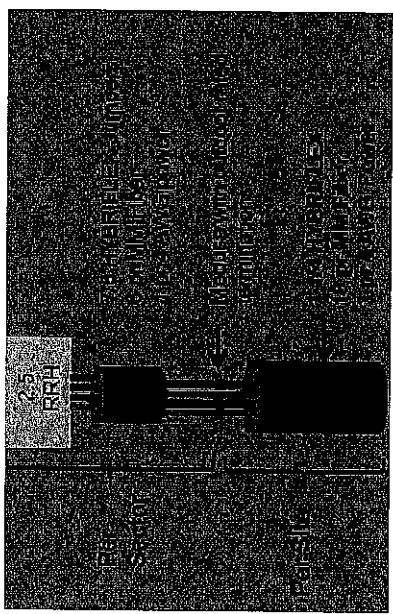
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PROJECT NO.	DESCRIPTION
0807028/4	FOR COMMENT
1. 10/29/14	FOR CONSTRUCTION
2. 10/14/17	FOR CONSTRUCTION



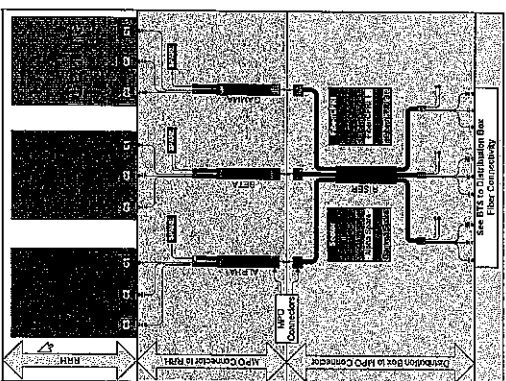
DATE: \_\_\_\_\_  
 REVISED BY: \_\_\_\_\_  
 PROJECT NO.: 0807028/4  
 SITE NUMBER: CT282C008  
 SITE NAME: OXFORD/FRITZ PROPERTY  
 SITE ADDRESS: 888 OXFORD ROAD, OXFORD, CT 06478  
 SHEET TITLE: RAN WIRING DIAGRAM  
 SHEET NO.: A-5



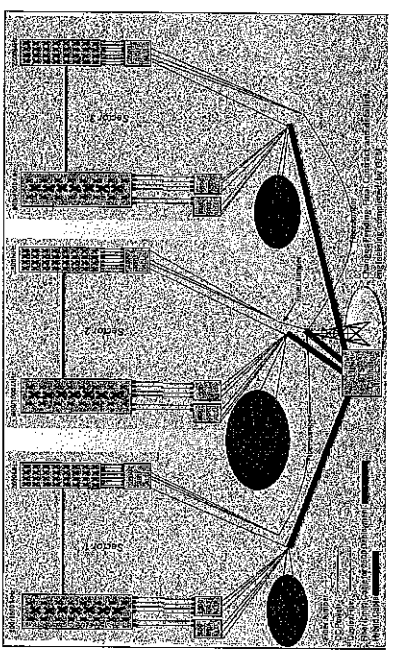
2 RRH CONNECTIVITY  
 SCALE: N.T.S.



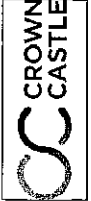
4 CABLE SCENARIO  
 SCALE: N.T.S.



1 2.5 CABLE COLOR CODING  
 SCALE: N.T.S.



3 RAN WIRING  
 SCALE: N.T.S.

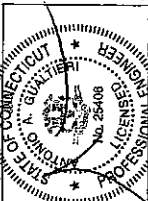


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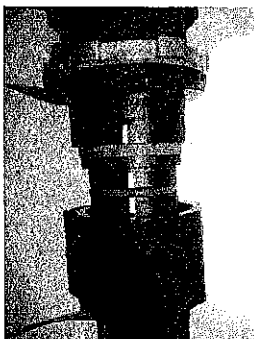
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NO.	DATE	DESCRIPTION	REV.
0	07/29/14	FOR COMMENT	JT
1	10/29/14	FOR CONSTRUCTION	DE
2	10/17/17	FOR CONSTRUCTION	RB

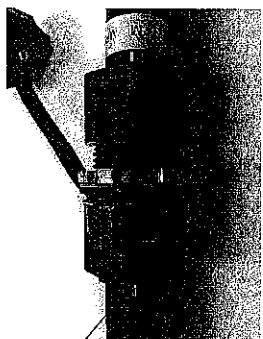
DATE: 10/17/2017  
 REVIEWED BY: [Signature]



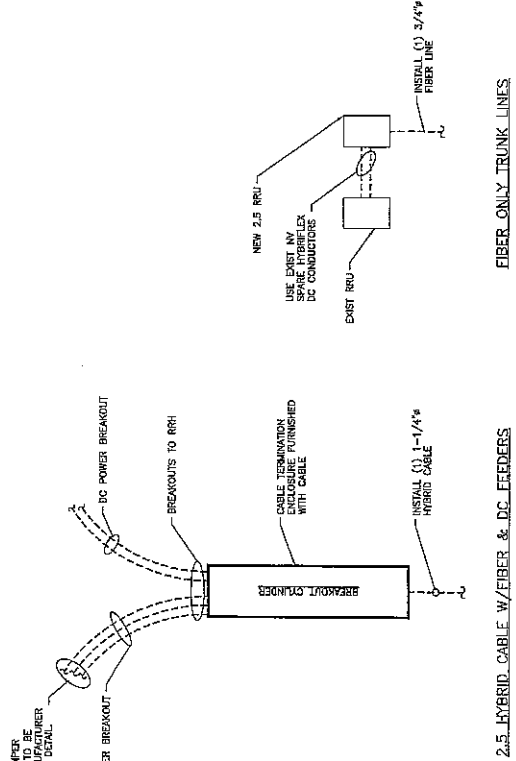
PROJECT NO: 6877-CT24KCS08  
 SITE NAME: OXFORD/PRITZ PROPERTY  
 SITE ADDRESS: 388 OXFORD ROAD, OXFORD, CT 06478  
 SHEET TITLE: CABLE DETAILS  
 SHEET NO: A-6



IMPORTANT! LINE UP WHITE MARKERS ON JUMPER AND RISER TO ENSURE PROPER CONNECTION. WHITE MARK ON THE JUMPER CONNECTOR FLUSH AGAINST THE RED SEAL ON THE RISER CONNECTION.



IMPORTANT! ROTATE THE BAYONET HOUSING HEAD TO ENSURE A LOCK CONNECTION.



2.5 HYBRID CABLE W/FIBER & DC FEEDERS FIBER-ONLY TRUNK LINES

1 HYBRIFLEX RISER/JUMPER CONNECTION DETAILS SCALE: N.T.S.

2 TRUNK LINE DETAILS (TYPICAL) SCALE: N.T.S.

**SPECIAL NOTES: CABLE MARKINGS AT RAD CENTER AND ALL WALL/BLDG. PENETRATIONS**

- ALL COLOR CODE TAPE SHALL BE 34-35 AND SHALL BE INSTALLED USING A MINIMUM OF (5) WRAPS OF TAPE.
- ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.
- ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND MAY BE ONLY 3/4" WIDE. EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
- EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 3/4" COLOR BANDS JUST PRIOR TO ENTERING THE RR OR TRANSMITTER BUILDING.
- ALL COAX JUMPER CONNECTIONS SHALL BE COLOR CODED WITH (1) SET OF 3/4" BANDS ON EACH END OF THE ROTARY JUMPER.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
- EACH COLOR BAND SHALL HAVE A MINIMUM OF (3) WRAPS AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT AS TO AVOID UNRAVELING.
- X-POLE ANTENNAS SHOULD USE "30-1" FOR THE "40" PORT, "30-2" FOR THE "40" PORT.
- COLOR BAND #4 REFERS TO THE FREQUENCY BAND: ORANGE-850, VIOLET-1900. USED ON JUMPERS ONLY.
- RF FEEDLINE SHALL BE IDENTIFIED WITH A METAL TAG (STAINLESS OR BRASS) AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER.
- ANTENNA MARKER SHALL BE IDENTIFIED USING THE SECTOR LETTER AND ANTENNA NUMBER, WITH A 3-DIGIT NUMBER, FIBER TO DISPELLER.



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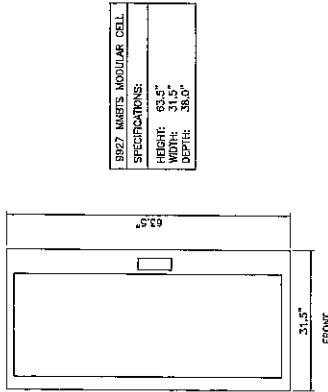
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SUBMITTALS	
NO.	DESCRIPTION
1	10/31/17 FOR CONSTRUCTION DC
2	10/11/17 FOR CONSTRUCTION RB

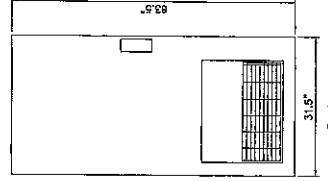
DATE: 10/17/17  
 REVIEWED BY: [Signature]



PROJECT NO. 8907CT2KCM98  
 MODEL # CT232K508  
 SITE NAME: OXFORD/FRIZZ PROPERTY  
 SITE ADDRESS: 338 OXFORD ROAD, OXFORD, CT 06478  
 SHEET TITLE: EQUIPMENT DETAILS  
 SHEET NO.: S-1



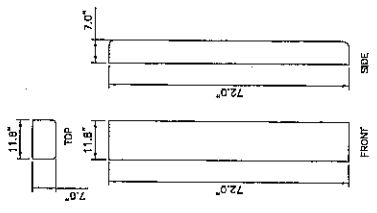
**8927 MMBITS MODULAR CELL**  
 SPECIFICATIONS:  
 HEIGHT: 63.5"  
 WIDTH: 31.5"  
 DEPTH: 38.0"



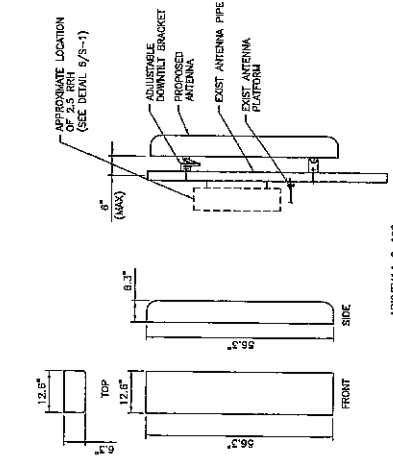
**BATTERY**  
 SPECIFICATIONS:  
 HEIGHT: 63.5"  
 WIDTH: 31.5"  
 DEPTH: 38.0"

1 (EXIST) MMBITS CABINET  
 SCALE: 1" = 1'-0"

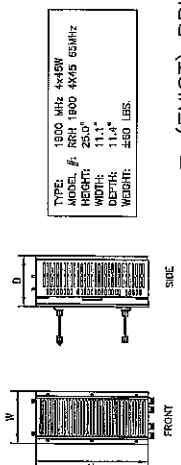
2 (EXIST) BATTERY CABINET  
 SCALE: 1" = 1'-0"



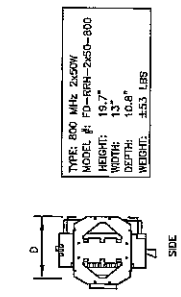
3 (EXIST) ANTENNA DETAILS  
 SCALE: 3/4" = 1'-0"



4 (PROPOSED) ANTENNA DETAIL  
 SCALE: 3/4" = 1'-0"



5 (EXIST) RRH DETAILS  
 SCALE: 1 1/2" = 1'-0"



6 (PROPOSED) RRH DETAIL  
 SCALE: N.T.S.

TYPE: 2.5 RRH  
 MODEL # TD-RRH420-25  
 HEIGHT: 17.5"  
 WIDTH: 5.7"  
 DEPTH: 5.68 LBS

TYPE: 800 MHz 2450W  
 MODEL # FD-RRH-2450-800  
 HEIGHT: 19.7"  
 WIDTH: 10.8"  
 DEPTH: 10.8"  
 WEIGHT: 45.5 LBS

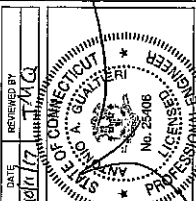
TYPE: 1900 MHz 4x45W  
 MODEL # RRH-1900-4X45 65MHz  
 HEIGHT: 25.0"  
 WIDTH: 11.4"  
 DEPTH: 11.4"  
 WEIGHT: 45.0 LBS



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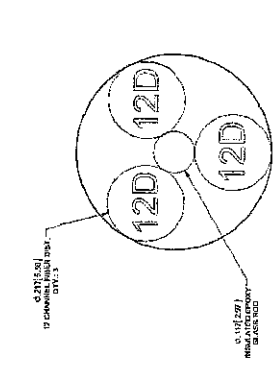
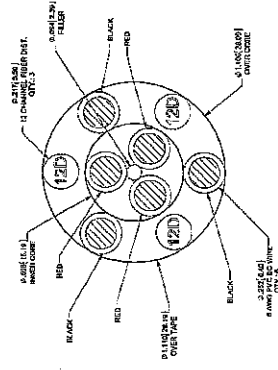
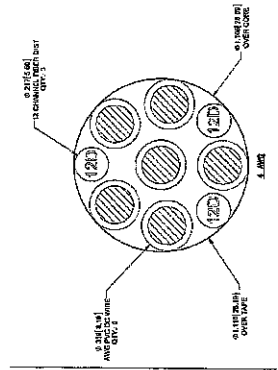
NO.	DATE	DESCRIPTION	BY
0.	07/07/07	FOR COMMENT	JT
1.	10/05/16	FOR CONSTRUCTION DC	
2.	10/01/17	FOR CONSTRUCTION RE	



DATE: 10/17  
 REVIEWED BY: JT  
 PROJECT NO: 8897-CT25XCSBB  
 OXFORD/FRITZ PROPERTY  
 838 OXFORD ROAD  
 OXFORD, CT 06478  
 SHEET TITLE: EQUIPMENT SCHEMATIC DETAILS  
 SHEET NO: S-2

**HYBRID CABLE DC CONDUCTOR SIZE GUIDELINE**

MANUF:	RFS	DC CONDUCTOR	CABLE DIAMETER
CABLE	LENGTH	USE RV HYBRIFLEX	7/8"
FIBER ONLY	VARIES	8 AWG	1-1/4"
HYBRIFLEX	<200'	6 AWG	1-1/4"
HYBRIFLEX	225-300'	4 AWG	1-1/4"
HYBRIFLEX	325-375'		



**HYBRID CABLE**

Part No.	Description
511	12D 4 AWG Power Cable
512	12D 6 AWG Power Cable
513	12D 8 AWG Power Cable
514	12D 10 AWG Power Cable
515	12D 12 AWG Power Cable

**HYBRID CABLE**

Part No.	Description
516	12D 4 AWG Power Cable
517	12D 6 AWG Power Cable
518	12D 8 AWG Power Cable
519	12D 10 AWG Power Cable
520	12D 12 AWG Power Cable

**HYBRID CABLE**

Part No.	Description
521	12D 4 AWG Power Cable
522	12D 6 AWG Power Cable
523	12D 8 AWG Power Cable
524	12D 10 AWG Power Cable
525	12D 12 AWG Power Cable

**HYBRID CABLE**

Part No.	Description
526	12D 4 AWG Power Cable
527	12D 6 AWG Power Cable
528	12D 8 AWG Power Cable
529	12D 10 AWG Power Cable
530	12D 12 AWG Power Cable

**HYBRID CABLE**

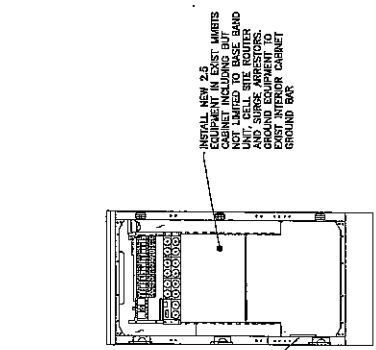
Part No.	Description
531	12D 4 AWG Power Cable
532	12D 6 AWG Power Cable
533	12D 8 AWG Power Cable
534	12D 10 AWG Power Cable
535	12D 12 AWG Power Cable

**HYBRID CABLE**

Part No.	Description
536	12D 4 AWG Power Cable
537	12D 6 AWG Power Cable
538	12D 8 AWG Power Cable
539	12D 10 AWG Power Cable
540	12D 12 AWG Power Cable

**HYBRID CABLE**

Part No.	Description
541	12D 4 AWG Power Cable
542	12D 6 AWG Power Cable
543	12D 8 AWG Power Cable
544	12D 10 AWG Power Cable
545	12D 12 AWG Power Cable

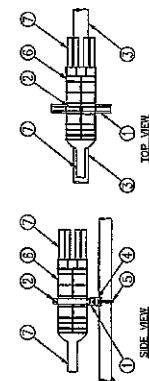


**NOTE:** LOCATIONS SHOWN FOR INSTALLATION OF NEW EQUIPMENT ARE APPROXIMATE. ACTUAL SPACE AVAILABLE MAY VARY. EQUIPMENT TO BE INSTALLED ON A SITE BY SITE BASIS.

**EXIST. GROUND TO BE UTILIZED**

**INSTALL NEW 2.5 MMBS COMBINER IN CABINET. NOT LIMITED TO BASE BAND ONLY. SEE SURVEYOR FOR GROUND EQUIPMENT TO BE INSTALLED IN CABINET.**

**1. MMBS INTERIOR DETAIL**  
 SCALE: NTS



**LEGEND:**

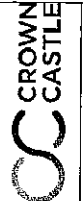
1. 1/2" LONG 1/2" DIA. UNFINISHED PIPE HANGERS
2. 1/2" DIA. UNFINISHED PIPE HANGERS
3. 1/2" DIA. UNFINISHED PIPE HANGERS
4. 1/2" DIA. UNFINISHED PIPE HANGERS
5. 1/2" DIA. UNFINISHED PIPE HANGERS
6. 1/2" DIA. UNFINISHED PIPE HANGERS
7. 1/2" DIA. UNFINISHED PIPE HANGERS

**2. MEDUSA HEAD DETAIL**  
 SCALE: NTS

**3. 2.5 HYBRID CABLE X-SECTION AND DATA**  
 SCALE: NTS



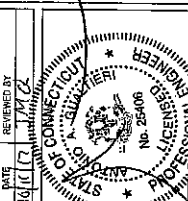




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NO.	DATE	DESCRIPTION	BY
0	07/20/17	FOR COMMENT	JL
1	07/20/17	FOR CONSTRUCTION	DC
2	10/07/17	FOR CONSTRUCTION	RB



OXFORD/PRETZ PROPERTY  
 SITE NAME  
 338 OXFORD ROAD  
 OXFORD, CT 06478  
 SHEET TITLE  
 GROUNDING DETAILS & NOTES  
 SHEET NO.  
 E-2

### ELECTRICAL AND GROUNDING NOTES

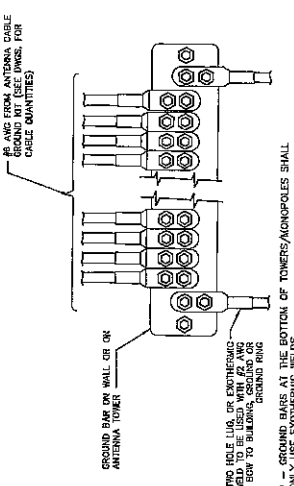
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL WORK SHALL BE UL APPROVED OR LISTED AND PROCURED PER MANUFACTURER REQUIREMENTS.
- ELECTRICAL AND TEO WORKING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE 4RH, THHN, OR THWN INSULATION.
- RUN TEO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TEO CABINET AND ITS CONDUITS AS INDICATED ON DRAWING. PROVIDE GROUNDING CONDUIT RISE IN INSTALLED TEO CONDUIT. PROVIDE GROUNDING CONDUIT W/INSULATING TAPE AT EACH END.
- USE #12 AWG COPPER BONDING WIRE TO CONNECT ALL CELL SITE PFC AND BETWEEN USE PVC CONDUIT. ABOVE CONDUIT, ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDINGS SHALL COMPLY WITH NEC ART. 250.
- GROUND HYBRID CABLE SHIELDS AT 3 LOCATIONS USING MANUFACTURER'S HYBRID CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GROUND WIRING UNLESS OTHERWISE SPECIFIED AND #2 SOLID THINW GARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- CONDUITS AND CABLES TO BE BUNDLED IN HYBRID GROUND COMPRESSION TYPE CONDUITS. CONDUITS SHALL NOT BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH, IF POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #2 WIRE CAN BE BENT AT 90 DEGREE ANGLES IF NECESSARY. BOND ANY METAL OBJECTS WITHIN 8 FEET OF PROJECT OWNER EQUIPMENT OR CABLE TO MASTER GROUND BARS OR GROUNDING RING.
- CONNECTIONS TO OTHER BARS SHALL BE MADE WITH 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, HYBRID CABLE GROUND KITS, AND RBSs TO ESB PLACED NEAR THE ANTENNA LOCATION.
- BOND ANTENNA ESB'S AND WGB 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, HYBRID, CABLES, GPS ONLY AND RBY RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- CONTRACTOR SHALL CHECK CAPACITY OF EXISTING SERVICE & BARS ON SITE TO DETERMINE IF CAPACITY EXISTS TO ACCOMMODATE THE ADDED LOAD OF THIS PROJECT. ADVISE ENGINEER OF ANY DISCREPANCY.
- LOCATION OF ALL OUTLET BOXES, ETC. AND THE TYPE OF CONNECTION (PLUG OR RECEPT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SHALL BE FIELD VERIFIED TO BE PROPERLY GROUNDING AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY GROUNDING ACCORDING TO THE MANUFACTURER DATA FURNISHED ON THE EQUIPMENT.

### GROUNDING NOTES

- GROUNDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250-GROUNDING AND BONDING.
- ALL GROUND WIRING SHALL BE #2 AWG UNLESS NOTED OTHERWISE.
- ALL GROUNDING WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH MINIMUM BENDS AS REQUIRED. GROUND WIRING SHALL NOT BE LOOPED OR SHARPLY BENT.
- EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR CONNECTIONS. #2 AWG INSULATED STRANDED COPPER WIRE EQUIPMENT CABINETS WILL HAVE (2) TO ASSOCIATED JOE.
- PROVIDE DEGRADED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED JOE.
- THE CONTRACTOR SHALL VERIFY THAT THE EXISTING GROUND BARS HAVE ENOUGH SPACE/ACCESS FOR ADDITIONAL TWO HOLE LUGS.
- ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL AND SHALL BE PROVIDED WITH GROUNDING BUSINESSES.
- PROVIDE GROUND CONNECTIONS FOR ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS AND OTHER CONDUCTIVE ITEMS ASSOCIATED WITH THE INSTALLATION OF CARRIER'S EQUIPMENT.
- WHEN CABLE LENGTH IS OVER 20' THE MANUFACTURER'S GROUND KIT MUST BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
- REFER TO "ANTI-THEFT UPGRADE TO SPRINT GROUNDING 082422.PDF" FOR GUIDELINE TO SUSPECTED OR ACTUAL THEFT OF GROUNDING.
- HOME RAN GROUNDINGS ARE NOT APPROVED BY CROWN CASTLE CONSTRUCTION STANDARDS AND THAT ANTENNA BUSH BARS SHOULD BE INSTALLED DIRECTLY TO TOWER STEEL WITHOUT INSULATIONS OR DOWN CONDUCTORS.

### PROTECTIVE GROUNDING SYSTEM GENERAL NOTES:

- AT ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANEL, AND FRAMES OF EQUIPMENT AND CONDUITS SHALL BE PROVIDED WITH TWO HOLE BUSHINGS WITH TWO HOLE BOLT TABLE COMPRESSION TYPE LUGS WITH STAINLESS STEEL SELF-TAPPING SCREWS.
- ALL LUGS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PROVIDED WITH TWO HOLE BUSHINGS WITH TWO HOLE BOLT TABLE COMPRESSION TYPE LUGS WITH STAINLESS STEEL SELF-TAPPING SCREWS.
- ALL GROUNDING CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT ANTI-CORROSION AGENT SUCH AS "ZINCHROME" SHIELD, VERIFY PRODUCT WITH PROJECT MANAGER.
- ALL BOLTS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL B6 IN THE PANEL BOND.
- GROUND ANTENNA BUSES, FRAMES, CABLE RACKS, AND OTHER METALLIC COMPONENTS WITH #2 SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- GROUND HYBRID CABLE SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.



THIS WIRE WILL BE PROTECTED AND WELDED TO THE BUILDING GROUNDING OR TO THE GROUNDING RING.  
 \* - GROUND BARS AT THE BOTTOM OF TOWERS/MONOPILES SHALL ONLY USE EXOTHERMIC WELDS.  
 - ATTACH TO NOT DISCONNECT LABELS TO GROUND BARS. CAN BE ATTACHED TO EITHER SIDE OF THE GROUNDING RING OR TO THE POINT OR BACK-UP LITE PLATE LABEL ON GROUND BARS.  
 - CONNECT SEQUENCE- BOLT/WASHER/NO-LOCK GROUND BAR/NO-OX/WASHER/LOCK-WASHER/NUT. THIS IS REPEATED FOR EACH LUG CONNECTION POINT.

### 4 ANTENNA GROUND BAR DETAIL

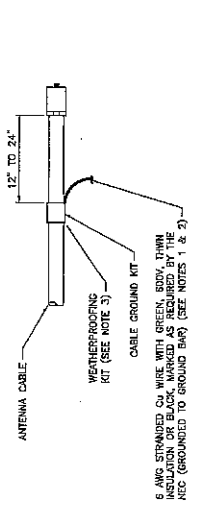
E-2 SCALE: NTS

### GROUNDING NOTES

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- ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL AND SHALL BE PROVIDED WITH GROUNDING BUSINESSES.
- PROVIDE GROUND CONNECTIONS FOR ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS AND OTHER CONDUCTIVE ITEMS ASSOCIATED WITH THE INSTALLATION OF CARRIER'S EQUIPMENT.
- WHEN CABLE LENGTH IS OVER 20' THE MANUFACTURER'S GROUND KIT MUST BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
- REFER TO "ANTI-THEFT UPGRADE TO SPRINT GROUNDING 082422.PDF" FOR GUIDELINE TO SUSPECTED OR ACTUAL THEFT OF GROUNDING.
- HOME RAN GROUNDINGS ARE NOT APPROVED BY CROWN CASTLE CONSTRUCTION STANDARDS AND THAT ANTENNA BUSH BARS SHOULD BE INSTALLED DIRECTLY TO TOWER STEEL WITHOUT INSULATIONS OR DOWN CONDUCTORS.

### PROTECTIVE GROUNDING SYSTEM GENERAL NOTES:

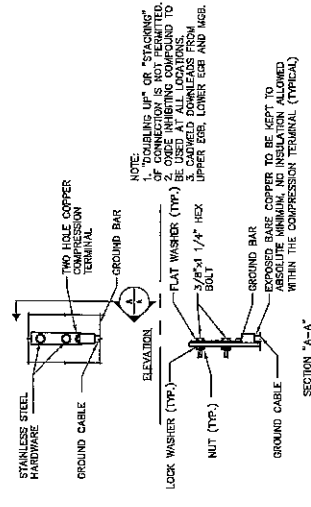
- AT ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANEL, AND FRAMES OF EQUIPMENT AND CONDUITS SHALL BE PROVIDED WITH TWO HOLE BUSHINGS WITH TWO HOLE BOLT TABLE COMPRESSION TYPE LUGS WITH STAINLESS STEEL SELF-TAPPING SCREWS.
- ALL LUGS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PROVIDED WITH TWO HOLE BUSHINGS WITH TWO HOLE BOLT TABLE COMPRESSION TYPE LUGS WITH STAINLESS STEEL SELF-TAPPING SCREWS.
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- ALL BOLTS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL B6 IN THE PANEL BOND.
- GROUND ANTENNA BUSES, FRAMES, CABLE RACKS, AND OTHER METALLIC COMPONENTS WITH #2 SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- GROUND HYBRID CABLE SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.



DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.  
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.  
 WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER) AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER AND APPROVED BY CONTRACTOR.

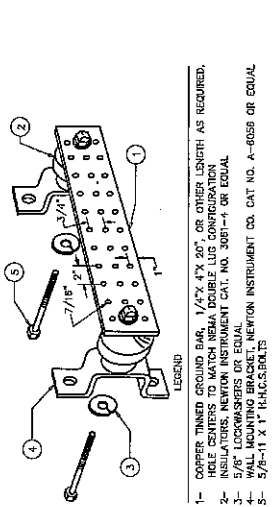
### 1 CABLE GROUNDING KIT DETAIL

E-2 SCALE: N.T.S.



### 2 GROUNDING BAR CONN. DETAIL

E-2 SCALE: NTS



- NOTE:  
 ALL BOLTS, NUTS, WASHERS AND LOCK WASHERS SHALL BE 18-8 STAINLESS STEEL.
- COPPER THINNED GROUND BAR, 1/2" X 1/2" OR OTHER LENGTH AS REQUIRED.
  - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3081-4 OR EQUAL.
  - 5/8" LOCKWASHERS OF EQUAL.
  - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6058 OR EQUAL.
  - 5/8"-11 X 1" TH.C.S.BOLTS



Date: August 04, 2017

Marianne Dunst  
Crown Castle  
3530 Toringdon Way, Suite 300  
Charlotte, NC 28277

Paul J Ford and Company  
250 E. Broad Street, Suite 600  
Columbus, OH 43215  
614.221.6679

**Subject: Structural Analysis Report**

**Carrier Designation:** *Sprint PCS Co-Locate*  
**Carrier Site Number:** CT23XC508  
**Carrier Site Name:** N/A

**Crown Castle Designation:**  
**Crown Castle BU Number:** 876362  
**Crown Castle Site Name:** Oxford / Fritz Property  
**Crown Castle JDE Job Number:** 442063  
**Crown Castle Work Order Number:** 1437023  
**Crown Castle Application Number:** 393569 Rev. 1

**Engineering Firm Designation:** Paul J Ford and Company Project Number: 37517-2697.001.7805

**Site Data:** 338 Oxford Rd., OXFORD, New Haven County, CT  
 Latitude 41° 25' 40.77", Longitude -73° 6' 30.75"  
 150 Foot - Monopole Tower

Dear Marianne Dunst,

Paul J Ford and Company is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 1064299, in accordance with application 393569, revision 1.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Existing + Reserved + Proposed Equipment **Sufficient Capacity**

Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

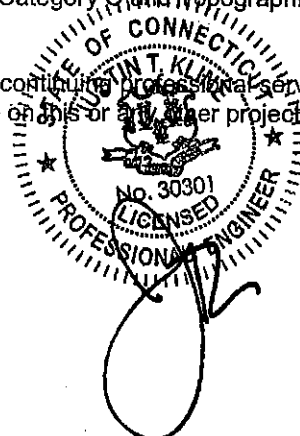
**\*The structure has sufficient capacity once the loading changes described in the Recommendations section of this report are completed.**

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph converted to a nominal 3-second gust wind speed of 97 mph per Section 1609.3 and Appendix N as required for use in the ANSI/TIA-222-G-2005 Standard, "Structural Standard for Antenna Supporting Structures and Antennas", with ANSI/TIA-222-G-1-2007 and ANSI/TIA-222-G-2-2009 Addenda per Exception #5 of Section 1609.1.1. Risk Category II, Exposure Category C and Topographic Category 1 were used in this analysis.

We at Paul J Ford and Company appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted by:

Bob Koors, P.E.  
Project Engineer *MLS*



Date: August 04, 2017

Marianne Dunst  
Crown Castle  
3530 Toringdon Way, Suite 300  
Charlotte, NC 28277

Paul J Ford and Company  
250 E. Broad Street, Suite 600  
Columbus, OH 43215  
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**Subject: Structural Analysis Report**

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**Carrier Site Number:** CT23XC508  
**Carrier Site Name:** N/A

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**\*The structure has sufficient capacity once the loading changes described in the Recommendations section of this report are completed.**

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Respectfully submitted by:

Bob Koors, P.E.  
Project Engineer *MIS*

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**1) INTRODUCTION**

This tower is a 150 ft Monopole tower designed by ENGINEERED ENDEAVORS, INC. in September of 1999. The tower was originally designed for a wind speed of 89.25 mph per TIA/EIA-222-F.

**2) ANALYSIS CRITERIA**

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**Table 1 - Proposed Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
152.0	150.0	3	alcatel lucent	TD-RRH8x20-25	1	1-1/4	-
		3	rfs celwave	APXVTM14-ALU-I20 w/ Mount Pipe			
		1	tower mounts	Handrail Kit			

**Table 2 - Existing and Reserved Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
152.0	152.0	3	alcatel lucent	800 EXTERNAL NOTCH FILTER	3	1-1/4	1
		9	rfs celwave	ACU-A20-N			
		1	tower mounts	Platform Mount [LP 601-1]			
	150.0	3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe	1	1/2	3
	152.0	-	-	-			
150.0	150.0	3	alcatel lucent	1900MHz RRH (65 MHz)	-	-	1
		3	alcatel lucent	800MHz RRH			
		1	tower mounts	Side Arm Mount [SO 102-3]			
137.0	139.0	3	ericsson	RRUS 12	12	3/8 3/4 1-1/4	1
		4	andrew	SBNH-1D6565C w/ Mount Pipe			
		2	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe			
		3	powerwave technologies	7770.00 w/ Mount Pipe			
		1	raycap	DC6-48-60-18-8F			
	137.0	137.0	6	communication components inc.	DTMABP7819VG12A		
			3	powerwave technologies	7020.00		
		1	tower mounts	Platform Mount [LP 712-1]			

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note	
136.0	137.0	3	ericsson	RRUS 11	-	-	1	
	136.0	1	tower mounts	Side Arm Mount [SO 102-3]				
	135.0	1	raycap	DC6-48-60-18-8F				
127.0	129.0	3	alcatel lucent	RRH2X60-AWS	1	1-5/8	2	
		3	alcatel lucent	RRH2X60-PCS				
		1	antel	BXA-70040/4CF w/ Mount Pipe				
		6	commscope	HBXX-6517DS-A2M w/ Mount Pipe				
		1	rfs celwave	DB-T1-6Z-8AB-0Z				
		2	antel	BXA-70063-4CF-EDIN-X w/ Mount Pipe				
	130.0	127.0	6	rfs celwave	APL866513-42T0 w/ Mount Pipe	12	1/2 1-5/8	1
			6	rfs celwave	FD9R6004/2C-3L			
			1	gps	GPS_A			
117.0	117.0	1	tower mounts	Platform Mount [LP 712-1]	6	3/8 1-5/8	1	
		3	andrew	HBX-6516DS-VTM w/ Mount Pipe				
75.0	76.0	1	kathrein	OG-860/1920/GPS-A	1	1/2	1	
	75.0	1	tower mounts	Side Arm Mount [SO 701-1]				

- Notes:  
 1) Existing Equipment  
 2) Reserved Equipment  
 3) Equipment To Be Removed

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	TEP, 25611.19662, 10/08/2014	1531939	CCISITES
4-POST-MODIFICATION INSPECTION	VSI, 080876.07 Rev0, 12/01/2008	2364903	CCISITES
4-POST-MODIFICATION INSPECTION	PJF, 41712-0018, 05/18/2012	3192205	CCISITES
4-POST-MODIFICATION INSPECTION	TEP, 127765, 05/15/2013	3872724	CCISITES
4-POST-MODIFICATION INSPECTION	TEP, 25611.19662, 09/18/2014	5301920	CCISITES
4-POST-MODIFICATION INSPECTION	SGS, 155891, 02/26/2016	6119183	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	EEI, 5724, 12/09/1999	1440552	CCISITES
4-TOWER MANUFACTURER DRAWINGS	EEI, 99-1188, 09/21/1999	1441271	CCISITES

#### 3.1) Analysis Method

tnxTower (version 7.0.5.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

#### 3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) Monopole was modified in conformance with the referenced modification drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J Ford and Company should be notified to determine the effect on the structural integrity of the tower.

### 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	150 - 123.42	Pole	TP20.74x15x0.1875	1	-8.29	865.46	69.4	Pass
L2	123.42 - 122.25	Pole	TP20.6033x19.6804x0.25	2	-8.87	1199.89	66.2	Pass
L3	122.25 - 120.25	Pole	TP21.0285x20.6033x0.4075	3	-9.18	1066.86	83.1	Pass
L4	120.25 - 115.5	Pole	TP22.0386x21.0285x0.5544	4	-11.03	1515.85	71.5	Pass
L5	115.5 - 115	Pole	TP22.1449x22.0386x0.3981	5	-11.12	1102.68	98.7	Pass
L6	115 - 105.25	Pole	TP24.2182x22.1449x0.5205	6	-13.09	1573.21	92.6	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P <sub>allow</sub> (K)	% Capacity	Pass / Fail
L7	105.25 - 101.9	Pole	TP24.9305x24.2182x0.7142	7	-13.99	1977.02	80.7	Pass
L8	101.9 - 85.96	Pole	TP28.32x24.9305x0.6884	8	-17.26	2281.23	86.2	Pass
L9	85.96 - 82	Pole	TP28.6653x26.0757x0.734	9	-19.45	2428.38	89.3	Pass
L10	82 - 77.25	Pole	TP29.6773x28.6653x0.8956	10	-22.43	3201.80	75.1	Pass
L11	77.25 - 75	Pole	TP30.1567x29.6773x0.7696	11	-23.20	2789.71	87.6	Pass
L12	75 - 72.15	Pole	TP30.7639x30.1567x0.8087	12	-24.30	3011.84	83.8	Pass
L13	72.15 - 71.25	Pole	TP30.9556x30.7639x0.8229	13	-24.64	3182.74	80.2	Pass
L14	71.25 - 42.41	Pole	TP37.1x30.9556x0.8326	14	-34.14	3822.95	81.7	Pass
L15	42.41 - 36.25	Pole	TP37.7849x34.3333x0.7102	15	-38.01	3704.48	89.8	Pass
L16	36.25 - 31.25	Pole	TP38.849x37.7849x0.7382	16	-42.45	3987.88	88.2	Pass
L17	31.25 - 18.5	Pole	TP41.5626x38.849x0.7104	17	-46.45	4054.43	91.3	Pass
L18	18.5 - 15	Pole	TP42.3075x41.5626x0.6605	18	-47.82	4110.80	91.4	Pass
L19	15 - 0	Pole	TP45.5x42.3075x0.6287	19	-49.26	3943.10	96.8	Pass
							Summary	
							Pole (L5)	98.7 Pass
							RATING =	98.7 Pass

**Table 5 - Tower Component Stresses vs. Capacity – LC7**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	67.4	Pass
1	Base Plate	0	67.0	Pass
1	Base Foundation	0	32.9	Pass

<b>Structure Rating (max from all components) =</b>	<b>98.7%</b>
---	--------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

**4.1) Recommendations**

The tower and foundation have sufficient capacity to carry the existing, reserved, and proposed loading. In order for the results of this analysis to be considered valid the loading modification listed below must be completed.

Loading Changes:

- All existing and proposed coax to the 152ft elevation will must be installed inside the pole shaft.
- All mount pipes not supporting antennas at the 152ft elevation must be removed.

No structural modifications are required at this time, provided that the above listed changes are implemented.





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

SPRINT Existing Facility

Site ID: CT23XC508

Oxford/Fritz Property  
338 Oxford Road  
Oxford, CT 06478

**April 2, 2018**

**EBI Project Number: 6218002549**

Site Compliance Summary	
Compliance Status:	<b>COMPLIANT</b>
Site total MPE% of FCC general population allowable limit:	<b>7.04 %</b>

BU 876362  
APP 393569



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April 2, 2018

SPRINT

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

## Emissions Analysis for Site: CT23XC508 – Oxford/Fritz Property

EBI Consulting was directed to analyze the proposed SPRINT facility located at **338 Oxford Road, Oxford, 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 97-01 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 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.

General population 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 limits for the 850 MHz Band is approximately  $567 \mu\text{W}/\text{cm}^2$ . The general population exposure limit for the 1900 MHz (PCS) and 2500 MHz (BRS) 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.



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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 **338 Oxford Road, Oxford, 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.



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- 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 APXVSP18-C-A20** and the **RFS APXVTM14-ALU-I20** 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 **150 feet** above ground level (AGL) for **Sector A**, **150 feet** above ground level (AGL) for **Sector B** and **150 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:	B	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):	150 feet	Height (AGL):	150 feet	Height (AGL):	150 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%	1.48 %	Antenna B1 MPE%	1.48 %	Antenna C1 MPE%	1.48 %
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVTM14-ALU-I20	Make / Model:	RFS APXVTM14-ALU-I20	Make / Model:	RFS APXVTM14-ALU-I20
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	150 feet	Height (AGL):	150 feet	Height (AGL):	150 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):	6,224.72	ERP (W):	6,224.72	ERP (W):	6,224.72
Antenna A2 MPE%	1.08 %	Antenna B2 MPE%	1.08 %	Antenna C2 MPE%	1.08 %

Site Composite MPE%	
Carrier	MPE%
SPRINT - Max per sector	2.56 %
AT&T	1.72 %
Verizon Wireless	2.76 %
Site Total MPE %:	7.04 %

SPRINT Sector A Total:	2.56 %
SPRINT Sector B Total:	2.56 %
SPRINT Sector C Total:	2.56 %
Site Total:	7.04 %

SPRINT Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Frequency (MHz)	Allowable MPE ( $\mu\text{W}/\text{cm}^2$ )	Calculated % MPE
Sprint 850 MHz CDMA	1	437.55	150	0.76	850 MHz	567	0.13%
Sprint 850 MHz LTE	2	437.55	150	1.52	850 MHz	567	0.27%
Sprint 1900 MHz (PCS) CDMA	5	622.47	150	5.40	1900 MHz (PCS)	1000	0.54%
Sprint 1900 MHz (PCS) LTE	2	1,556.18	150	5.40	1900 MHz (PCS)	1000	0.54%
Sprint 2500 MHz (BRS) LTE	8	778.09	150	10.79	2500 MHz (BRS)	1000	1.08%
						<b>Total:</b>	<b>2.56%</b>



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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:	2.56 %
Sector B:	2.56 %
Sector C:	2.56 %
SPRINT Maximum Total (per sector):	2.56 %
Site Total:	7.04 %
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **7.04 %** 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.

**Zsamba, Anne Marie (Contractor)**

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Thu,  
4/19/2018  
Rebecca  
Alescio  
Crown Castle  
Clifton Park,  
NY 12065  
US




Delivery date:  
Fri,  
4/20/2018  
9:51 am  
Town of  
Oxford  
Mr. George  
Temple, First-  
Selectman  
486 Oxford  
Road  
OXFORD, CT  
06478  
US

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04/20/2018 09:51  
AM Signed for By:  
P.PASTORE  
**Invoice number:** 982896  
**Reference:** 1766.668  
**Signed for by:** P.PASTORE  
**Delivery location:** Oxford, CT

**Delivered to:** Receptionist/Front Desk  
**Service type:** FedEx Priority Overnight  
**Packaging type:** FedEx Pak  
**Number of pieces:** 1  
**Weight:** 1.00 lb.  
**Special handling/Services:** Deliver Weekday  
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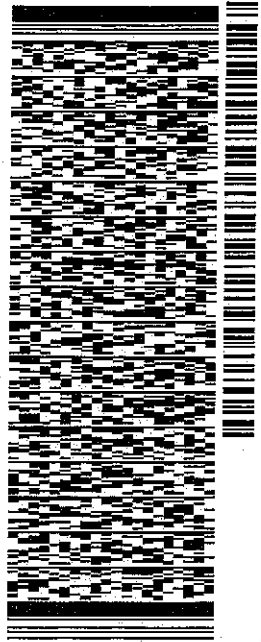
SHIP DATE: 19APR18  
ACT WGT: 1.00 LB  
CAD: 104924194IN/ET3980  
BILL SENDER

TO TOWN OF OXFORD  
MR. GEORGE TEMPLE, FIRST-SELECTMAN  
486 OXFORD ROAD

OXFORD CT 06478  
(203) 888-2543  
INV: 992896  
PO: DEPT:

REF: 1766.669

552J1.S132/DCA5



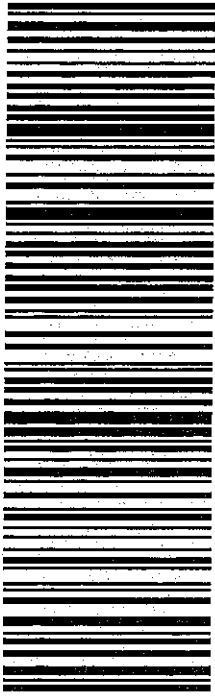
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**Zsamba, Anne Marie (Contractor)**

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Rebecca  
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Crown Castle  
Clifton Park,  
NY 12065  
US

Delivery date:  
**Fri, 4/20/2018 9:51 am**  
**Mr. Jeffrey Lutz**  
Planning & Zoning Commission  
486 Oxford Road  
Town of Oxford  
OXFORD, CT 06478  
US




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04/20/2018 09:51 AM  
Signed for By:  
S.MACARY  
**Invoice number:** 982896  
**Reference:** 1766.668  
**Signed for by:** S.MACARY

**Delivery location:** Oxford, CT  
**Delivered to:** Receptionist/Front Desk  
**Service type:** FedEx Priority Overnight  
**Packaging type:** FedEx Pak  
**Number of pieces:** 1  
**Weight:** 1.00 lb.  
**Special handling/Services:** Deliver Weekday  
**Standard transit:** 4/20/2018 by 10:30 am

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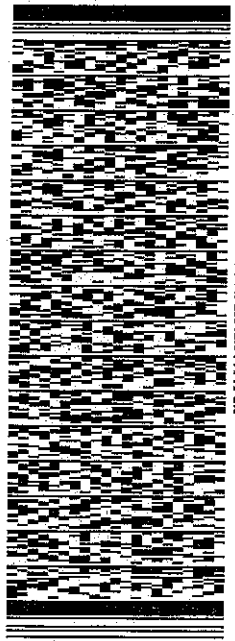
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REBECCA ALFESCIO  
CROWN CASTLE  
3 CORPORATE PARK DRIVE  
SUITE 101  
CLIFTON PARK, NY 12065  
UNITED STATES US

SHIP DATE: 19APR18  
ACTWGT: 1.00 LB  
CAD: 104924194/NET3980  
BILL SENDER

TO MR. JEFFREY LUTZ  
PLANNING & ZONING COMMISSION  
TOWN OF OXFORD  
486 OXFORD ROAD  
OXFORD CT 06478  
(203) 888-2543  
NY: 982836  
REF: 1765.699  
DEPT:

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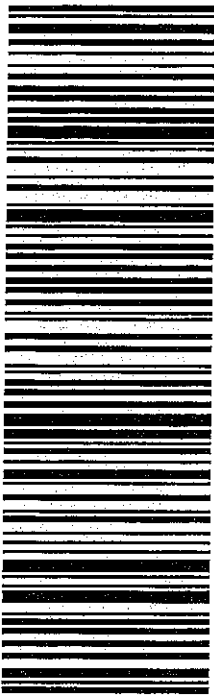
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PRIORITY OVERNIGHT

EB HFDA

06478  
CT-US BDL



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**Zsamba, Anne Marie (Contractor)**

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**From:** TrackingUpdates@fedex.com  
**Sent:** Friday, April 20, 2018 10:29 AM  
**To:** Zsamba, Anne Marie (Contractor)  
**Subject:** FedEx Shipment 772038136017 Delivered

**Your package has been delivered**

**Tracking # 772038136017**



Ship date:  
**Thu,  
4/19/2018**

Rebecca  
Alescio  
Crown Castle  
Clifton Park,  
NY 12065  
US



Delivery date:  
**Fri,  
4/20/2018  
10:25 am**

Mr. and Mrs.  
William Fritz  
338 Oxford  
Road  
OXFORD, CT  
06478  
US

**Shipment Facts**

Our records indicate that the following package has been delivered.

**Tracking number:** **772038136017**

**Status:** Delivered:  
04/20/2018  
10:25 AM  
**Signed for By:**  
Signature not required


**Invoice number:** 982896

**Reference:** 1766.668

**Signed for by:** Signature not required

**Delivery location:** Oxford, CT

**Delivered to:** Residence  
**Service type:** FedEx Priority  
Overnight  
**Packaging type:** FedEx Pak  
**Number of pieces:** 1  
**Weight:** 1.00 lb.  
**Special handling/Services:** Deliver  
Weekday  
Residential  
Delivery  
**Standard transit:** 4/20/2018 by  
10:30 am

 Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 9:28 AM CDT on 04/20/2018.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above. Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

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Thank you for your business.

ORIGIN ID: GFLA (518) 373-3547  
REBECCA ALESSIO  
CROWN CASTLE  
3 CORPORATE PARK DRIVE  
SUITE 101  
CLIFTON PARK NY 12065  
UNITED STATES US

SHIP DATE: 19APR18  
ACTWTG: 1.00 LB  
CAD: 104924194/NET3980  
BILL SENDER

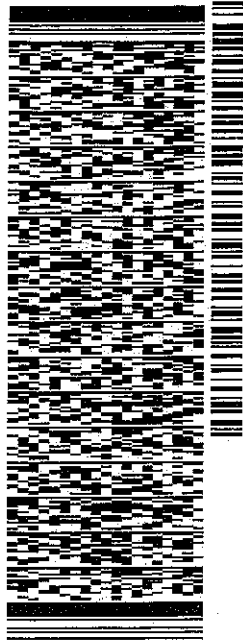
TO MR. AND MRS. WILLIAM FRITZ

338 OXFORD ROAD

OXFORD CT 06478

(860) 274-0018 REF: 1766388  
INV: 962886 DEPT:  
PO

552.119132/DCA5



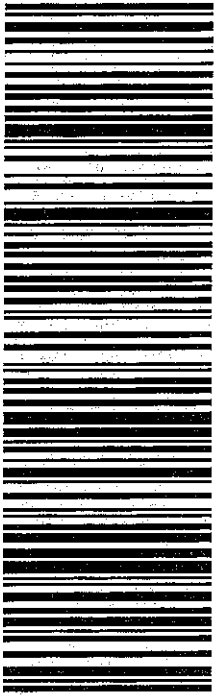
J181118012501uv

TRK# 7720 3813 6017  
0201

FRI - 20 APR 10:30A  
PRIORITY OVERNIGHT

EB HFDA

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