

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE:

NEW CINGULAR WIRELESS PCS, LLC  
(AT&T) PETITION FOR A DECLARATORY  
RULING, PURSUANT TO CONNECTICUT  
GENERAL STATUTES §4-176 AND §16-50K,  
FOR THE INSTALLATION OF A SMALL  
CELL WIRELESS TELECOMMUNICATIONS  
FACILITY ON PROPERTY LOCATED AT 221  
POST ROAD WEST, WESTPORT,  
CONNECTICUT.

PETITION NO. \_\_\_\_\_

November 15, 2019

PETITION FOR A DECLARATORY RULING:  
INSTALLATION HAVING  
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Section 16-50j-38 and 16-50j-39 of the regulations of Connecticut State Agencies (“R.C.S.A.”), New Cingular Wireless PCS LLC (“AT&T”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” wireless telecommunications facility on a replacement utility pole located on a property at 221 Post Road West, Westport, Connecticut (the “Site”). The replacement utility pole will be owned by Eversource AT&T identifies this installation as its “Norwalk 10” (the “Facility”).

II. Factual Background

a. AT&T’s Need for the Proposed Facility

AT&T identified a need for additional coverage and/or capacity relief in its network in this area of Westport. The proposed Facility is designed to assure reliable wireless service to AT&T customers and emergency service providers in the area of the Facility location.

b. AT&T’s Proposed “Small Cell” Facility

AT&T proposes to install its proposed small cell Facility on a replacement utility pole, identified as Eversource pole number 19468 located at the Site. AT&T maintains a master lease

agreement with the owner of the pole, Eversource. AT&T's proposed Facility consists of a top-mounted canister antenna and associated radio and electrical service equipment on the replacement utility pole. Specifications and details of AT&T's proposed Facility are shown on the drawings included in Attachment 1.

c. Council Jurisdiction

On September 26, 2019, AT&T sent notice to the abutters and municipality for the proposed Facility in accordance with the notice requirements of the Public Utilities Regulatory Authority ("PURA") for small cell facilities. At that time, AT&T believed that the existing Eversource utility pole was located within the public right-of-way ("ROW"). However the existing utility pole number 19468 is actually located on a utility pole installed on property not in the ROW. Included in Attachment 4 are copies of surveys of the Site that have been previously filed with the Weston Town Clerk that depict the location of the existing utility pole.

Connecticut law confers jurisdiction to the Council over certain "facilities", including "telecommunication towers." C.G.S. §16-50i(a)(6). State regulations define "tower" as a "structure, whether free standing or attached to a building or another structure... used principally to support one or more antennas for receiving or sending radio frequency signals...". R.C.S.A. §16-50j-2a(30)(A). Utility structures used to support electric distribution lines located within the public ROW fall under PURA's jurisdiction. Thus, PURA has jurisdiction over small cell facility attachments to utility poles located within the public ROW. PURA, Docket 16-06-38.

Here, since AT&T's proposed small cell Facility is a "facility" located outside of the public ROW, the Council has jurisdiction over AT&T's proposed Facility.

III. Discussion

a. The Proposed Small Cell Facility Will Not Have A Substantial Environmental Impact

For the reasons set forth below, AT&T respectfully submits that its proposed small cell Facility will not have a substantial environmental impact and as such a Certificate pursuant to C.G.S. Section 16-50k(a) is not required .

i. Physical Environmental Effects

The proposed existing utility pole and AT&T's installation of a canister antenna and associated radio and electrical equipment will not result in any significant physical

and environmental change to the property or any adjacent parcels. Indeed, AT&T's proposed small cell Facility will not require any tree removal and involves minimal disturbance for the replacement pole installation.

ii. Visual Effects

The existing utility pole currently supports some utility infrastructure and the installation of AT&T's small cell Facility will not result in a significant change to the visibility of the utility pole. Moreover, AT&T's proposed small cell Facility will be consistent with the existing utility infrastructure in the area.

iii. FCC Compliance

The operation of AT&T's antenna will not increase the total radio frequency electromagnetic power density at the site to a level at or above applicable standards. A power density report is included in Attachment 2. The total radio frequency power density will be well within standards adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and the MPE limits established by the Federal Communications Commission.

b. Notice to Municipal Officials and Adjoining Landowners

Pursuant to C.G.S. Section 16-234 and PURA's decision in Docket No. 07-03-34RE01, AT&T's notice included notice by certificate of mailing of its intent to install its proposed small cell Facility to adjoining property owners, the chief elected official of the Town of Westport and the Director of Planning and Zoning for the Town of Westport.

Notice to adjoining property owners included details of the proposed Facility, information regarding small cell facilities and contact information for any questions or comments. The notice to adjoining property owners also indicated that per state law, if they did not object to AT&T's proposed Facility within 30 days of the date of the notice, consent of AT&T's proposed Facility is presumed.

Notice to the Mayor of Westport and the Westport Director of Planning and Zoning included details of the proposed Facility, an invitation to consult with AT&T and copies of the notice sent to the adjoining property owners.

AT&T received no objections to its proposed Facility or comments from the Town of Westport.

A copy of AT&T's PURA notice is included in Attachment 3.

Given that adjoining property owners and the Town of Westport were provided notice of AT&T's proposed Facility, AT&T respectfully submits that additional notice of this Petition filing is not warranted as the intent of notice was fully satisfied by the PURA process notice.

IV. Conclusion

As set forth above, AT&T's proposed small cell Facility will not result in any known adverse environmental effects. Therefore, and for all the foregoing reasons, AT&T petitions the Council for a determination that the proposed small cell Facility does not require a Certificate of Environmental Compatibility and Public Need and that the Council issue an order approving same.

Respectfully submitted,



Lucia Chiochio

On behalf of the Petitioner

cc: First Selectman Jim Marpe, Town of Westport  
Mary Young, Director of Planning & Zoning, Town of Westport  
AT&T  
Centerline  
Julie Durkin



**1**



**AT&T SITE ID: CRAN\_NORWALK\_10**  
**221 POST ROAD WEST**  
**WESTPORT, CT 06880**



550 COCHITUATE ROAD  
 FRAMINGHAM, MA 01701



95 RYAN DRIVE  
 RAYNHAM, MA 02767



1717 S. BOULDER  
 SUITE 300  
 TULSA, OK 74119  
 PH: (918) 587-4630  
 www.btgrp.com



CHECKED BY: **RMC**

APPROVED BY: **MO**

**SUBMITTALS**

REV.	DATE	DESCRIPTION	BY
A	8/7/19	ISSUED FOR REVIEW	BMC
0	8/7/19	CONSTRUCTION	BMC
1	8/23/19	CONSTRUCTION	JSD

CLUSTER AND NODE NUMBER:  
**2H17**

SITE ID:  
**CRAN\_NORWALK\_10**

SITE ADDRESS:  
**221 POST ROAD WEST**  
**WESTPORT, CT 06880**  
**FAIRFIELD COUNTY**

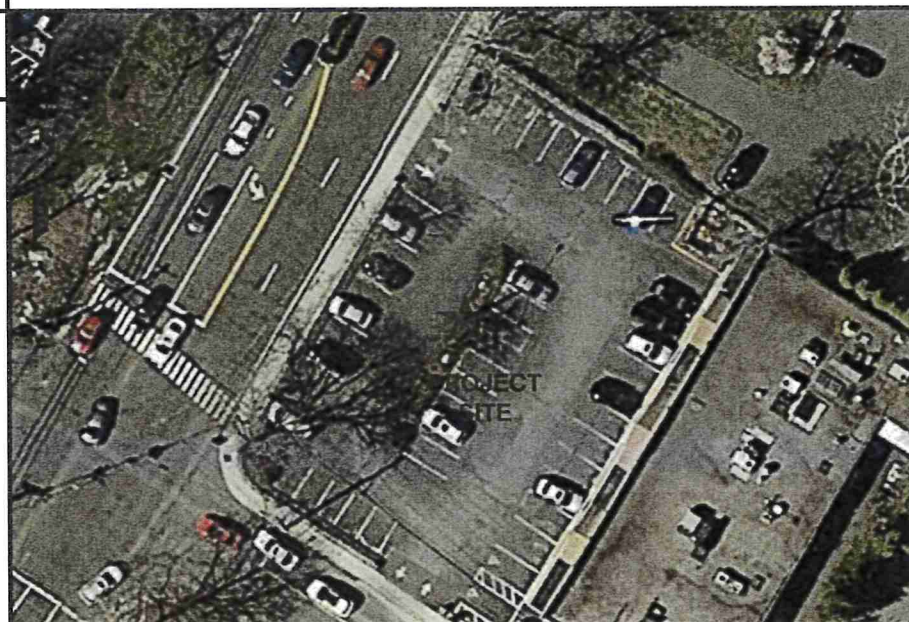
SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**

**SHEET INDEX**

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
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A-1	KEY PLAN AND ELEVATION	1
A-2	EQUIPMENT DETAILS	1
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**VICINITY MAP (NOT TO SCALE)**



**GENERAL NOTES**

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

**PROJECT SUMMARY**

SITE ADDRESS: 221 POST ROAD WEST  
 WESTPORT, CT 06880

COUNTY: FAIRFIELD

LATITUDE: 41.134795° N

LONGITUDE: 73.371997° W

STRUCTURE TYPE: WOOD POLE

ARCHITECT/ENGINEER: B+T GROUP  
 1717 S. BOULDER, STE. 300  
 TULSA, OK 74119

UTILITY OWNER

**DRIVING DIRECTIONS**

DEPART FRAMINGHAM ON RT-126 [CONCORD ST]. TURN RIGHT ONTO CONCORD ST. TURN RIGHT ONTO RT-9 [WORCESTER RD]. MERGE ONTO RT-30 [RT-9]. KEEP STRAIGHT ONTO RT-9 [WORCESTER RD]. KEEP RIGHT ONTO RAMP. TAKE RAMP (LEFT) ONTO I-90 [MASS PIKE]. AT EXIT 9, TAKE RAMP (RIGHT) ONTO I-84. STAY ON I-84. ENTERING CONNECTICUT. AT EXIT 57, TURN LEFT ONTO RAMP. ROAD NAME CHANGES TO CT-15. ROAD NAME CHANGES TO US-5 [CT-15]. AT EXIT 86, TAKE RAMP (RIGHT) ONTO I-91. AT EXIT 17, TURN RIGHT ONTO RAMP. TAKE RAMP (LEFT) ONTO CT-15 [WILBUR CROSS PKWY]. AT EXIT 41, KEEP LEFT ONTO RAMP. TURN RIGHT ONTO CT-33 [WILTON RD]. TURN RIGHT ONTO US-1 [POST RD W]. TURN LEFT ONTO SYLVAN RD S. TURN LEFT ONTO LOCAL ROAD(S). ARRIVE AT CRAN\_NORWALK\_10.

**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL CONNECTICUT ONE CALL  
 (800) 922-4455  
 CALL 3 WORKING DAYS  
 BEFORE YOU DIG!





**GENERAL NOTES**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR – CENTERLINE  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T MOBILITY

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. APPLICABLE BUILDING CODES:  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.  
 BUILDING CODE: MA STATE BUILDING CODE 780 CMR 9TH EDITION & IBC 2009  
 ELECTRICAL CODE: REFER TO NEC 2014

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G,  
 STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

**NATIONAL GRID NOTES**

ALL INSTALLATIONS SHALL BE MADE IN COMPLIANCE WITH ALL APPLICABLE CODES INCLUDING THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND NATIONAL ELECTRICAL CODE (NEC), WITH LOCAL WIRING INSPECTOR REQUIREMENTS AND WITH APPLICABLE SERVICE REQUIREMENTS FROM THE COMPANY'S TARIFFS. CURRENTLY, IN MASSACHUSETTS, NEW HAMPSHIRE AND RHODE ISLAND THESE INCLUDE THE CURRENT "INFORMATION AND REQUIREMENTS FOR ELECTRIC SERVICE" BOOK AND IN NEW YORK THE CURRENT "SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS" (ESB 750) BOOK.

**GROUNDING NOTES**

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH ERICSSON AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

**ABBREVIATIONS**

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		



CHECKED BY: **RMC**

APPROVED BY: **MO**

**SUBMITTALS**

REV.	DATE	DESCRIPTION	BY
A	8/7/10	ISSUED FOR REVIEW	BAC
0	8/7/10	CONSTRUCTION	BAC
1	8/23/10	CONSTRUCTION	JD

CLUSTER AND NODE NUMBER:  
**2H17**

SITE ID:  
**CRAN\_NORWALK\_10**

SITE ADDRESS:  
 221 POST ROAD WEST  
 WESTPORT, CT 06880  
 FAIRFIELD COUNTY

SHEET TITLE  
**GENERAL NOTES**

SHEET NUMBER  
**GN-1**



APPROXIMATE COORDINATES: LAT: 41.134795 LONG: 73.371997

**AT&T**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

**CENTERLINE COMMUNICATIONS**  
95 RYAN DRIVE  
RAYNHAM, MA 02787

**B+T GRP**  
1717 S. BOULDER  
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CHECKED BY: RMC

APPROVED BY: MO

**SUBMITTALS**

REV.	DATE	DESCRIPTION	BY
A	8/7/19	ISSUED FOR REVIEW	BNC
0	8/7/19	CONSTRUCTION	BNC
1	8/23/19	CONSTRUCTION	JJD

CLUSTER AND NODE NUMBER:  
**2H17**

SITE ID:  
**CRAN\_NORWALK\_10**

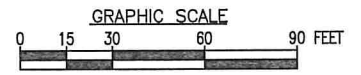
SITE ADDRESS:  
**221 POST ROAD WEST  
WESTPORT, CT 06880  
FAIRFIELD COUNTY**

SHEET TITLE  
**KEY PLAN AND ELEVATION**

SHEET NUMBER  
**A-1**

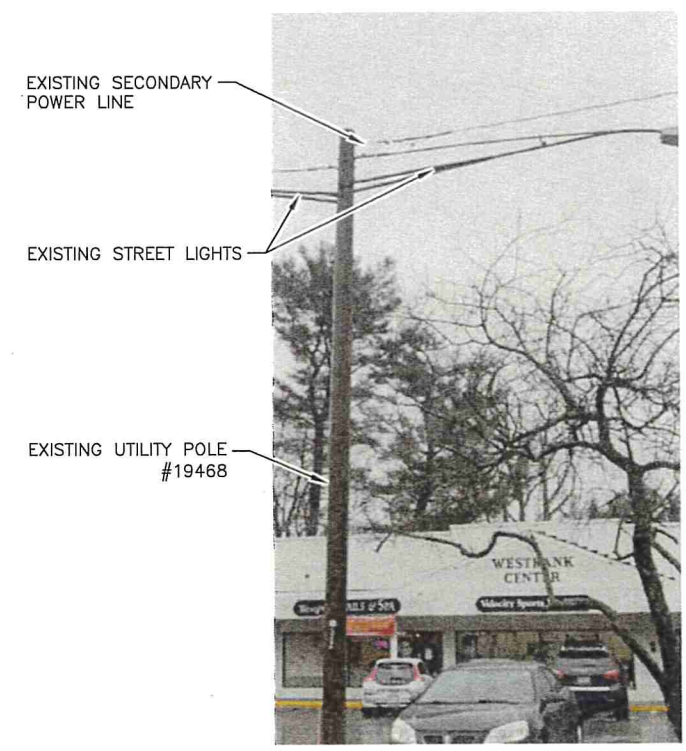


**KEY PLAN**  
22x34 SCALE: 1"=30'  
11x17 SCALE: 1"=60'

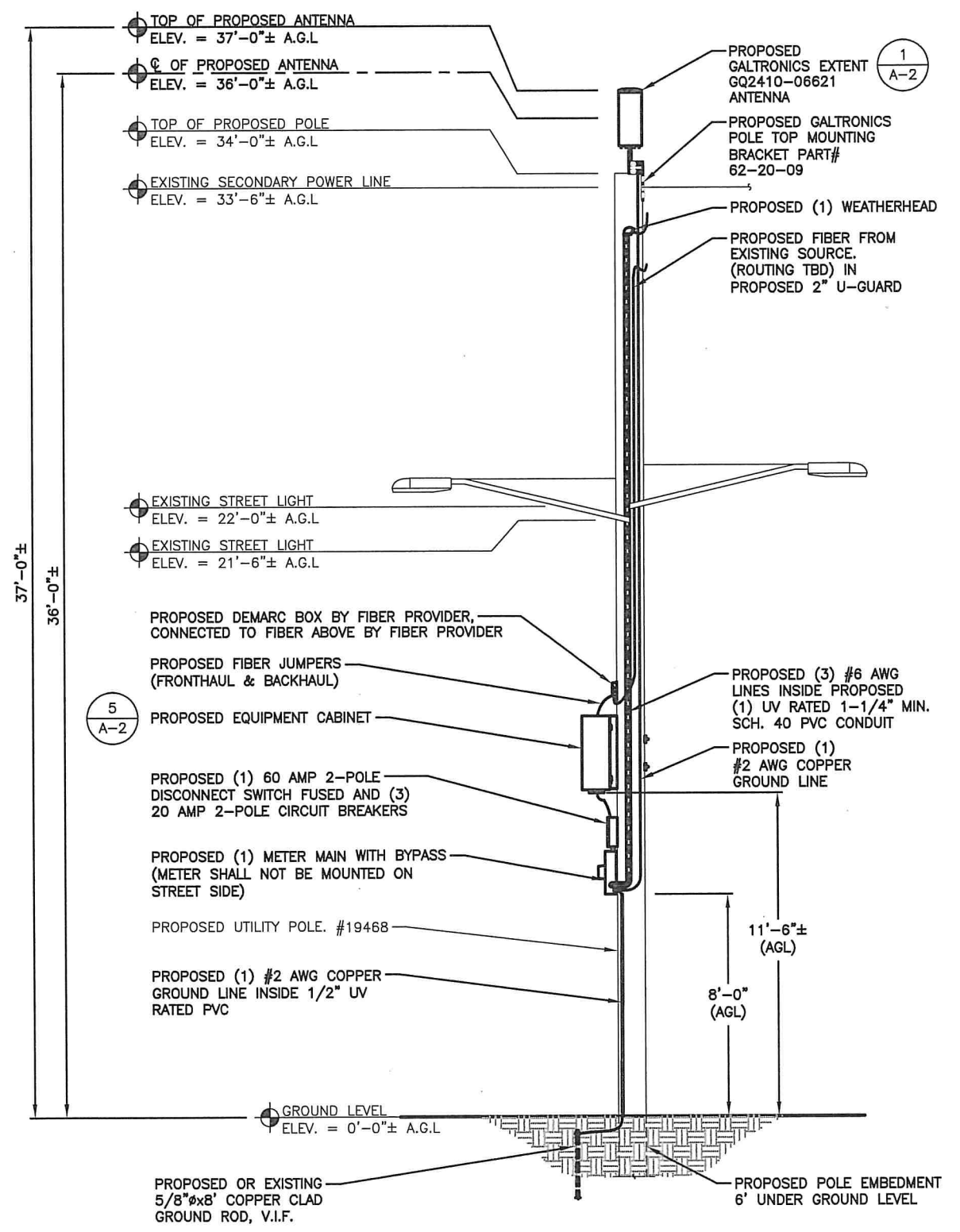


**IMMEDIATE ADJOINING PROPERTY OWNER INFORMATION**

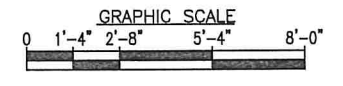
PARCEL	OWNER	ADDRESS
B08071000	SILVERMAN WESTPORT REALTY ASSOC LLC	237 MAMARONECK AVE WHITE PLAINS, NY 10605
B08075000	MICHAEL CALISE	PO BOX 150 WESTPORT, CT 06881
B08076000	LITTLE APPLE WESTPORT LLC	591 STEWART AVE STE 100 GARDEN CITY, NY 11530
B08086000	THE CHAPTER 1 PROPERTIES LLC	231 POST RD W WESTPORT, CT 06880



**EXISTING CONDITIONS PHOTO DETAIL**  
SCALE: N.T.S.



**ELEVATION**  
22x34 SCALE: 3/8"=1'-0"  
11x17 SCALE: 3/16"=1'-0"







550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701



95 RYAN DRIVE  
RAYNHAM, MA 02767



1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4530  
www.blgrp.com



CHECKED BY: RMC

APPROVED BY: MO

**SUBMITTALS**

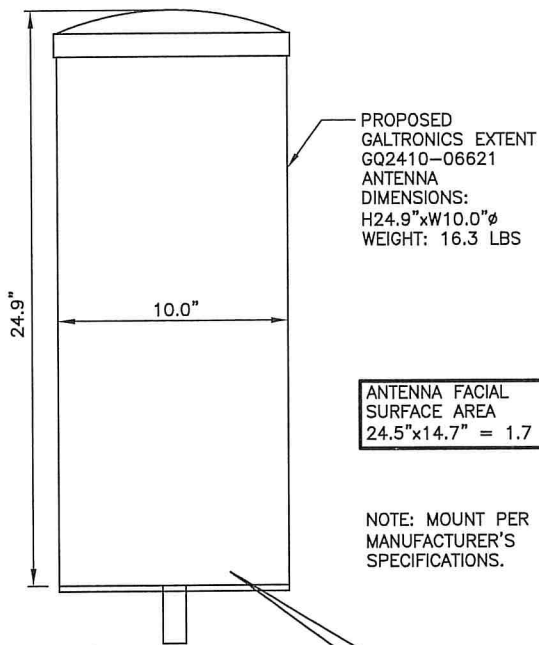
REV.	DATE	DESCRIPTION	BY
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0	8/7/19	CONSTRUCTION	B/C
1	8/25/19	CONSTRUCTION	J/D

CLUSTER AND NODE NUMBER:  
**2H17**

SITE ID:  
**CRAN\_NORWALK\_10**  
SITE ADDRESS:  
**221 POST ROAD WEST  
WESTPORT, CT 06880  
FAIRFIELD COUNTY**

SHEET TITLE  
**EQUIPMENT DETAILS**

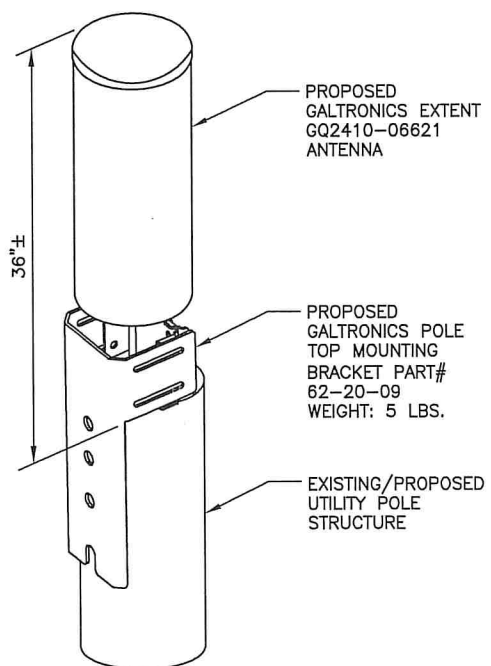
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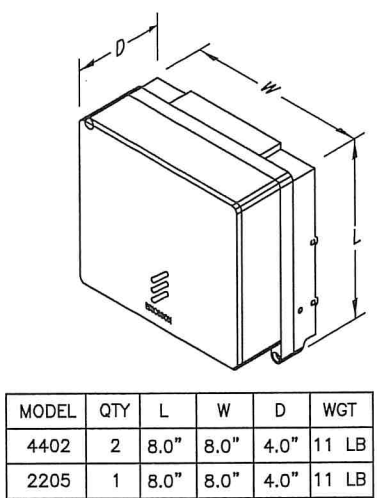
**NOTICE**  
RF energy emitted by this device may exceed the FCC's general public exposure limits. Stay at least 1 foot away from the device. Call 800-635-2822 for help if you need access within 1 foot.

N01-CD-16 1"x6" NOTICE DECAL PLACE THREE NOTICE STICKERS EQUALLY SPACED AROUND THE BOTTOM OF THE ANTENNA RADOME

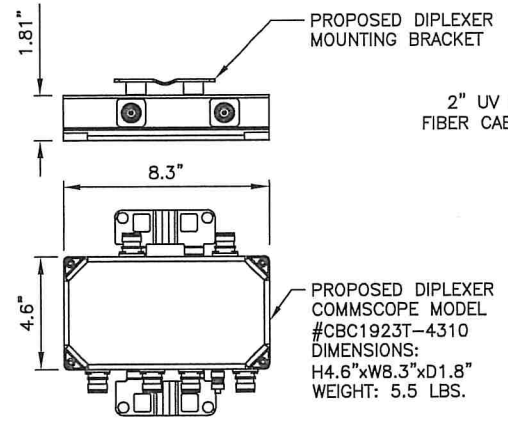
**ANTENNA DETAIL** 1 A-2  
SCALE: N.T.S



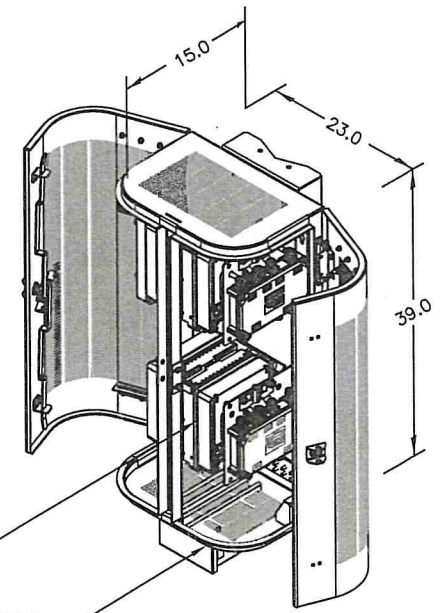
**ANTENNA MOUNT DETAIL** 4 A-2  
SCALE: N.T.S



**RRH (4402/2205) DETAIL** 2 A-2  
SCALE: N.T.S



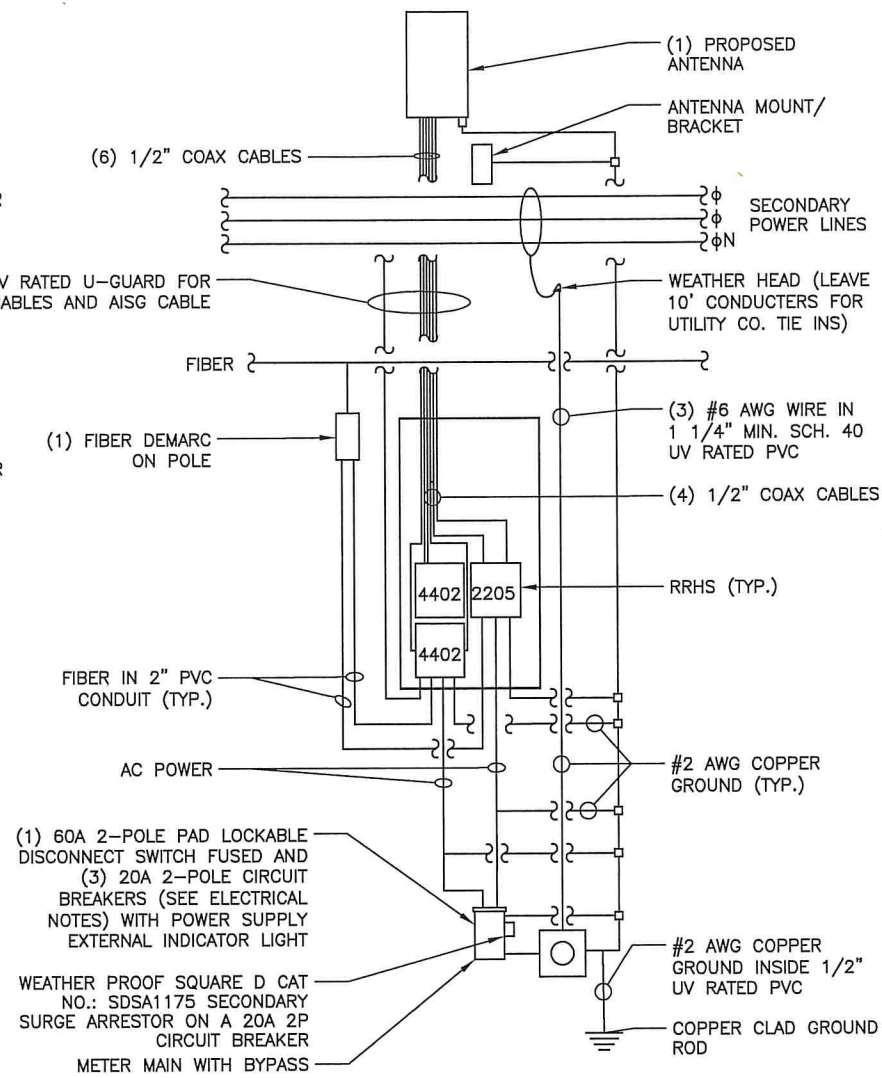
**DIPLEXER DETAIL (AS REQUIRED)** 3 A-2  
SCALE: N.T.S



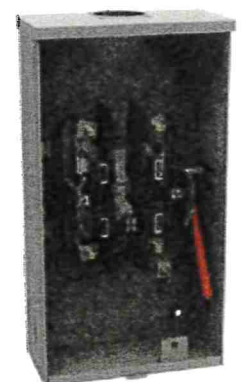
NO BATTERY BACKUP OR AUXILIARY OUTLETS FOR BACKUP POWER ARE BEING PROVIDED IN THIS DESIGN

NOTE:  
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**EQUIPMENT CABINET DETAIL** 5 A-2  
SCALE: N.T.S



**GENERAL WIRING DIAGRAM DUAL RRHS** 6 A-2  
SCALE: N.T.S



US MILBANK  
MODEL NO.:  
U2272-RL-5T9-BL  
OR APPROVED EQUAL

**METER MAIN BYPASS DETAIL** 7 A-2  
SCALE: N.T.S



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701



95 RYAN DRIVE  
RAYNHAM, MA 02767



1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.blgrp.com



8/7/19

CHECKED BY: RMC

APPROVED BY: MO

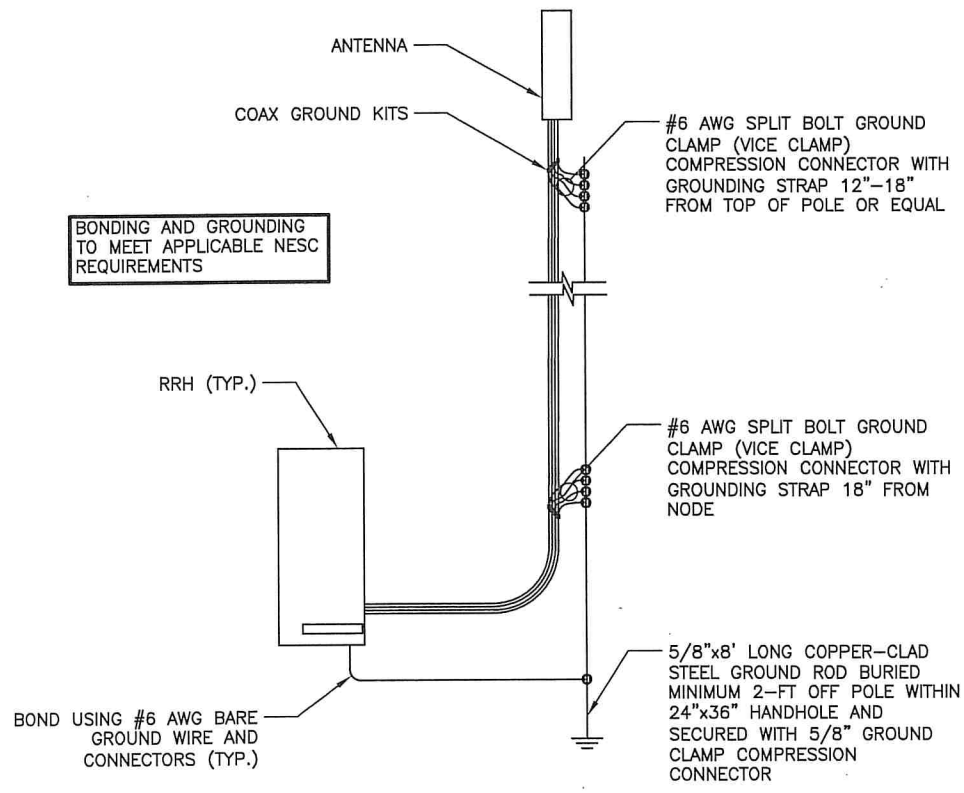
**SUBMITTALS**

REV.	DATE	DESCRIPTION	BY
A	8/7/19	ISSUED FOR REVIEW	BMC
0	8/7/19	CONSTRUCTION	BMC
1	8/25/19	CONSTRUCTION	JJD

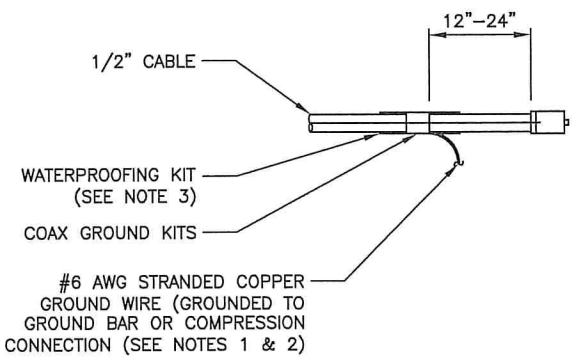
CLUSTER AND NODE NUMBER:  
**2H17**  
  
SITE ID:  
**CRAN\_NORWALK\_10**  
  
SITE ADDRESS:  
**221 POST ROAD WEST  
WESTPORT, CT 06880  
FAIRFIELD COUNTY**

SHEET TITLE  
**ELECTRICAL &  
GROUNDING DETAILS**

SHEET NUMBER  
**E-1**

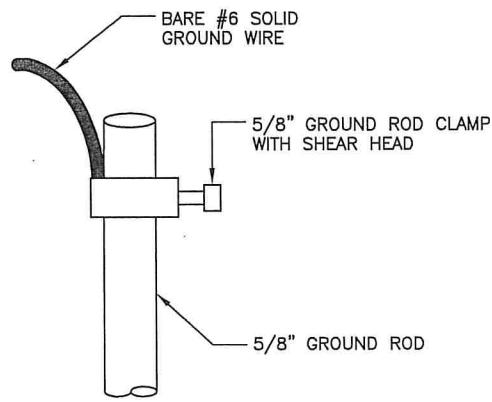


**GROUNDING ONE LINE DIAGRAM** 1  
SCALE: N.T.S. E-1



- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR, OR COMPRESSION CONNECTION.
  - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
  - WEATHERPROOFING SHALL BE TWO PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

**ANTENNA CABLE GROUND KIT** 2  
SCALE: N.T.S. E-1



**CONNECTION TO GROUND ROD** 3  
SCALE: N.T.S. E-1

**2**





# Radio Frequency Emissions Analysis Report

AT&T

Site Name: **cRAN\_norwalk\_10**

221 Post Road  
Westport, CT 06880

**August 30, 2019**

**Centerline Communications Project Number: 950012-278**

Site Compliance Summary	
Compliance Status:	<b>Compliant</b>
Site total MPE% of FCC general population allowable limit:	<b>0.53%</b>





August 30, 2019

AT&T Mobility – New England  
Attn: John Benedetto, RF Manager  
550 Cochituate Road  
Suite 550 – 13&14  
Framingham, MA 06040

### Emissions Analysis for Site: **cRAN\_norwalk\_10**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility to be located on the **Utility Pole #19468** near **221 Post Road, Westport CT 06880** for the purpose of determining whether the emissions from the proposed facility 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.

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 1900 MHz (PCS) and 5 GHz (B46) bands is  $1000 \mu\text{W}/\text{cm}^2$ .



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, 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 performed for the proposed facility using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing focused omnidirectional 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. This is a very conservative estimate since the gain reduction in actual applications is typically greater than 10 dB in the direction of ground immediately surrounding the facility. Real world emissions values from this facility are expected to be lower than values listed in this report at ground level. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

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. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

RRH #	Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
1	LTE	1900 MHz (PCS Band)	2 (2 x 2 MIMO)	5
2	LTE	2100 MHz (AWS Band)	2 (2 x 2 MIMO)	5
3	LTE	5 GHz (Band 46)	2 (2 x 2 MIMO)	0.316

*Table 1: Channel Data Table*



The following antennas listed in *Table 2* were used in the modeling for transmission in the 1900 MHz (PCS), 2100 MHz (AWS) and 5 GHz (Band 46) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection. Maximum gain values for all antennas are listed in the AT&T Antenna Inventory & Power Levels table (Table 3) below in the Results section. 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.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Galtronics GQ2410-06621	36

*Table 2: Antenna Data*

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



## RESULTS

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Antenna Height (ft)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Galtronics GQ2410-06621	1900 MHz (PCS Band)	6.75 dBd	36	4	20	94.63	0.2625
Antenna A1	Galtronics GQ2410-06621	2100 MHz (PCS Band)	6.75 dBd	36	4	20	94.63	0.2625
Antenna A1	Galtronics GQ2410-06621	5 GHz (Band 46)	6.75 dBd	36	4	1.3	2.73	0.0076
Sector A Composite MPE%								0.5326

*Table 3: AT&T Antenna Inventory & Power Levels*





FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). Since this proposed facility is utilizing an omnidirectional antenna there is only one sector for this site (Sector A).

AT&T _ Frequency Band / Technology Max Power Levels	# 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
AT&T 1900 MHz LTE	2	23.66	36.0	1.31	1900 MHz LTE	1000	0.13%
AT&T 1900 MHz LTE	2	23.66	36.0	1.31	1900 MHz LTE	1000	0.13%
AT&T 2100 MHz LTE	2	23.66	36.0	1.31	2100 MHz LTE	1000	0.13%
AT&T 2100 MHz LTE	2	23.66	36.0	1.31	2100 MHz LTE	1000	0.13%
AT&T 5200 MHz LTE	2	0.68	36.0	0.04	5200 MHz LTE	1000	0.00%
AT&T 5200 MHz LTE	2	0.68	36.0	0.04	5200 MHz LTE	1000	0.00%
						<b>Sector A Total:</b>	<b>0.53%</b>

*Table 6: AT&T Maximum Sector MPE Power Values*



## 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 AT&T 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:

AT&T Sector	Power Density Value (%)
Sector A:	0.53%
AT&T Maximum Site Total:	0.53%
Site Total:	<b>0.53%</b>
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **0.53%** of the allowable FCC established general population limit sampled at the ground level.

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.

A handwritten signature in black ink that reads "Ryan B. McManus".

Ryan McManus  
RF EME Compliance Manager  
**Centerline Communications, LLC**

95 Ryan Drive, Suite 1  
Raynham, MA 02767

**3**





445 Hamilton Avenue, 14th Floor  
White Plains, New York 10601  
T 914 761 1300  
F 914 761 5372  
cuddyfeder.com

Lucia Chiocchio  
lchiocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Jim Marpe, First Selectman  
Town of Westport  
Room 310  
Westport, CT 06880

Re: Utility Pole Attachments to be Performed by New Cingular Wireless PCS, LLC  
New Cingular Wireless PCS, LLC Utility Pole Attachment Project - Norwalk 10  
Pole Location: Utility Pole 19468 in the Public Right-of-Way, Near 221 Post Road West  
in Westport  
Municipal Notification

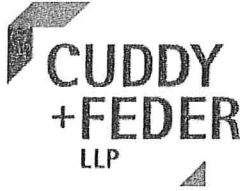
Dear First Selectman Marpe:

This firm represents New Cingular Wireless PCS, LLC ("AT&T"). AT&T is in the process of upgrading its wireless network in Westport and intends to install a small cell wireless antenna and associated equipment on a utility pole in the public right of way. This network upgrade project will allow AT&T to provide your community with enhanced wireless voice and data services. State law permits AT&T to implement these system upgrades upon approval of the Public Utilities Regulatory Authority (the "Authority") following the procedure outlined below.

Pursuant to C.G.S. § 16-234, and Authority decisions, AT&T has provided notification of its intent to install a small cell wireless antenna and associated equipment on an existing utility pole, or, if indicated on the enclosed plans, a replacement for an existing utility pole to the owners of real property immediately adjoining the project pole.<sup>1</sup> For your reference, the notice materials sent to the immediate adjoining property owners (the "Immediate Adjoining Property Owners" or

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<sup>1</sup> The Authority has defined "immediate adjoining property owners" as "Property owners whose property is actually physically contiguous to the affected section of the PROW" and also requires that notice be provided to "those property owners that are across the street from the contiguous properties to the utility pole to which the small cell antenna will be attached." See Docket No. 17-02-49, PURA *Formalization of Small Cell Antenna Applicant Processes and Procedures to Construct Facilities in Connecticut's Public Rights-of Way*, Decision at 4 (June 2, 2017) ("Small Cell Processes Decision"). A copy of the Small Cell Processes Decision is available at the following link:  
[http://www.dpuc.state.ct.us/dockcurr.nsf/8e6fc37a54110e3e852576190052b64d/042d1fd385e5872a85258133005ce100/\\$FILE/170249-060217.docx](http://www.dpuc.state.ct.us/dockcurr.nsf/8e6fc37a54110e3e852576190052b64d/042d1fd385e5872a85258133005ce100/$FILE/170249-060217.docx) .



“Owners”) are enclosed along with a template letter and list of Owners noticed, which are included in attachment 5.

AT&T may not place an antenna or equipment on a utility pole in the public right of way without either the consent of Immediate Adjoining Property Owners, or, if their consent cannot be obtained, without the Authority’s approval. If the Immediate Adjoining Property Owners do not contact AT&T within thirty (30) days from the date of the notification, their consent to the placement of the antenna and associated equipment on the identified pole is presumed. The Immediate Adjoining Property Owners may contact AT&T or the Authority during this time to indicate that they withhold consent.

In its Small Cell Procedures Docket,<sup>2</sup> the Authority directed that applicants notify the chief elected official, or his or her designee, regarding these applications when notice is provided to the Immediate Adjoining Property Owners. The host municipality of the small cell project will be designated a participant in the application for Authority approval of the project.<sup>3</sup> If the application becomes a contested case based on an adjoining owner objection, then the host municipality will be designated an intervenor in the application proceeding. In those cases in which the municipality also owns property adjoining the project location, the municipality will be designated a party to the application proceeding upon expressing an objection to the installation.

The Authority also directed that wireless service providers request consultation with the host municipality of the project at least 30 days prior to filing the application for project approval.<sup>4</sup> This letter constitutes AT&T’s request for consultation, and we would be pleased to meet, or otherwise confer with you or your designee to discuss the project and any questions. Please contact me at your earliest convenience if you wish to meet or discuss this project.

Beginning thirty (30) days after the notice to the Immediate Adjoining Property Owners and the date of this letter, whichever occurs later, AT&T may file an Application for Approval of a Construction Plan for the above-referenced facility with the Authority. You will receive a copy of the application filing for this installation when it is submitted to the Authority.

Please contact me if you have any questions or wish to discuss this project.

Very truly yours,

A handwritten signature in cursive script that reads 'Lucia Chiochio'.

Lucia Chiochio

cc: Mary Young, Planning Zoning Director

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<sup>2</sup> See Small Cell Processes Decision at 5.

<sup>3</sup> *Id.* At 5, 12.

<sup>4</sup> *Id.* At 12.



445 Hamilton Avenue, 14th Floor  
White Plains, New York 10601  
T 914 761 1300  
F 914 761 5372  
cuddyfeder.com

Lucia Chiocchio  
lchiocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Silverman Westport Realty Assoc LLC  
237 Mamaroneck Avenue  
White Plains, NY 10605

Re: Utility Pole Attachments to be Performed by New Cingular Wireless PCS, LLC  
New Cingular Wireless PCS, LLC Utility Pole Attachment Project - Norwalk 10  
Pole Location: Utility Pole 19468 in the Public Right-of-Way, Adjacent to 221 Post Road  
West in Westport  
Notification

Dear Sir or Madam:

This letter and enclosures are sent on behalf of New Cingular Wireless PCS, LLC ("AT&T") which is in the process of upgrading its wireless network at the pole location identified above ("Pole Location") in the vicinity of your property (properties). AT&T plans to install a small cell wireless canister antenna and associated radio and electrical equipment on a utility pole within the public right of way in order to assure reliable AT&T service in the area and enhance customer experience. You are receiving this notification because local municipal records identify your property (properties) as being considered contiguous to the identified pole where the AT&T equipment is proposed to be installed.

State law allows AT&T to install and operate new antennas and associated equipment on utility poles or on replacement poles in the public rights of way. The Connecticut Public Utilities Regulatory Authority ("PURA") has jurisdiction to review these proposals for appropriateness of the construction under state law and that the use is in the public interest. Before filing with PURA, AT&T must reach out to adjoining property owners such as yourself to determine if there is consent to the proposed use of the right-of-way.

During the thirty (30) days from the date of this letter, you may contact me as provided above or the project manager Carly Cowher by email at [attsmallcell@centerlinecommunications.com](mailto:attsmallcell@centerlinecommunications.com) or by phone at (508) 556-4560. You may also contact PURA to indicate that you withhold consent. If we do not hear from adjoining property owners within thirty days of this letter state law presumes consent to the placement of the antenna and associated equipment on the identified pole. Beginning thirty (30) days after the date of this letter, AT&T may file for the above-referenced facility with PURA. In its submission AT&T will advise PURA of any correspondence, e-mails, and telephone contact AT&T received from Immediate Adjoining Property Owners in response to this letter.



When PURA receives an application, it will contact any Immediate Adjoining Property Owners who have an objection and withheld consent to provide details on the review process. Those who withhold consent are requested to file confirmation of any objection and request a hearing. Thereafter PURA will set a hearing date at which time concerns may be presented and the PURA staff and other parties may ask questions about such concerns.

PURA requires that carriers advise municipalities and Immediate Adjoining Property Owners that PURA has no jurisdiction or authority to address the health effects associated with radio frequency ("RF") emissions for installations which are compliant with Federal Communications Commission standards. The federal government maintains exclusive jurisdiction over the standards by which commercial mobile radio service facilities must comply to assure public safety. State agencies such as PURA and local governments may not apply different standards or issue a denial when compliance with FCC standards is demonstrated. In addition, PURA determined that objections based on aesthetics or property values are not grounds by which such applications may be denied.

Attached please find additional information from AT&T regarding this proposal including details of the design of the planned small cell wireless attachment.<sup>1</sup> If you have any questions or concerns with the location of this equipment, or wish to file an objection, please feel free to use the contact information provided in this letter. You may also contact the PURA Consumer Affairs Unit directly at:

Public Utilities Regulatory Authority  
Ten Franklin Square  
New Britain, Connecticut 06051  
Attn: Consumer Affairs Unit  
1-800-382-4586 (toll free within Connecticut)  
1-860-827-2622 (outside Connecticut)

Thank you for your consideration of this matter.

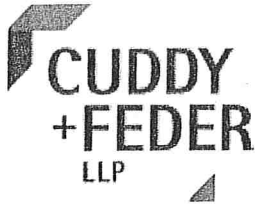
Very truly yours,

A handwritten signature in cursive script that reads 'Lucia Chiochio'.

Lucia Chiochio  
Enclosure

---

<sup>1</sup> Please note that the municipality included in the title of the drawings is a reference to the broader planning region for AT&T and is not necessarily a specific reference to the actual pole location.



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Lucia Chiocchio  
lchiocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Silverman Westport Realty Assoc LLC  
220 Post Road West  
Westport, CT 06880

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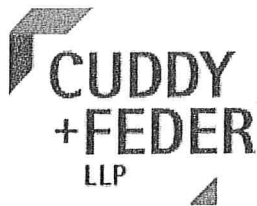
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Lucia Chiochio  
lchiochio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Michael Calise  
215 Post Road West  
Westport, CT 06880

Re: Utility Pole Attachments to be Performed by New Cingular Wireless PCS, LLC  
New Cingular Wireless PCS, LLC Utility Pole Attachment Project - Norwalk 10  
Pole Location: Utility Pole 19468 in the Public Right-of-Way, Adjacent to 221 Post Road  
West in Westport  
Notification

Dear Mr. Calise:

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Public Utilities Regulatory Authority  
Ten Franklin Square  
New Britain, Connecticut 06051  
Attn: Consumer Affairs Unit  
1-800-382-4586 (toll free within Connecticut)  
1-860-827-2622 (outside Connecticut)

Thank you for your consideration of this matter.

Very truly yours,

A handwritten signature in cursive script that reads "Lucia Chiochio".

Lucia Chiochio  
Enclosure

---

<sup>3</sup> Please note that the municipality included in the title of the drawings is a reference to the broader planning region for AT&T and is not necessarily a specific reference to the actual pole location.





445 Hamilton Avenue, 14th Floor  
White Plains, New York 10601  
T 914 761 1300  
F 914 761 5372  
cuddyfeder.com

Lucia Chiocchio  
lchiocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Michael Calise  
PO Box 150  
Westport, CT 06881

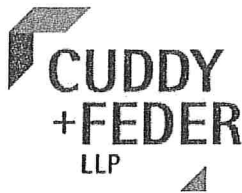
Re: Utility Pole Attachments to be Performed by New Cingular Wireless PCS, LLC  
New Cingular Wireless PCS, LLC Utility Pole Attachment Project - Norwalk 10  
Pole Location: Utility Pole 19468 in the Public Right-of-Way, Adjacent to 221 Post Road  
West in Westport  
Notification

Dear Mr. Calise:

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During the thirty (30) days from the date of this letter, you may contact me as provided above or the project manager Carly Cowher by email at [attsmallcell@centerlinecommunications.com](mailto:attsmallcell@centerlinecommunications.com) or by phone at (508) 556-4560. You may also contact PURA to indicate that you withhold consent. If we do not hear from adjoining property owners within thirty days of this letter state law presumes consent to the placement of the antenna and associated equipment on the identified pole. Beginning thirty (30) days after the date of this letter, AT&T may file for the above-referenced facility with PURA. In its submission AT&T will advise PURA of any correspondence, e-mails, and telephone contact AT&T received from Immediate Adjoining Property Owners in response to this letter.



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Lucia Chiochio  
Enclosure

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445 Hamilton Avenue, 14th Floor  
White Plains, New York 10601  
T 914 761 1300  
F 914 761 5372  
cuddyfeder.com

Lucia Chiocchio  
lchiocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Little Apple Westport  
C/O Pliskin Realty  
221 Post Road West  
Westport, CT 06881

Re: Utility Pole Attachments to be Performed by New Cingular Wireless PCS, LLC  
New Cingular Wireless PCS, LLC Utility Pole Attachment Project - Norwalk 10  
Pole Location: Utility Pole 19468 in the Public Right-of-Way, Adjacent to 221 Post Road  
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Very truly yours,

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Lucia Chiocchio  
Enclosure

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445 Hamilton Avenue, 14th Floor  
White Plains, New York 10601  
T 914 761 1300  
F 914 761 5372  
cuddyfeder.com

Lucia Chiocchio  
lchiocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

Little Apple Westport  
C/O Pliskin Realty  
591 Stewart Avenue, Ste 100  
Garden City, NY 11530

Re: Utility Pole Attachments to be Performed by New Cingular Wireless PCS, LLC  
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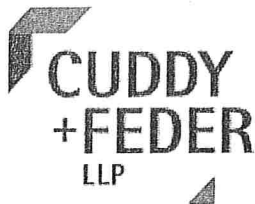
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T 914 761 1300  
F 914 761 5372  
cuddyfeder.com

Lucia Chioocchio  
lchioocchio@cuddyfeder.com

September 26, 2019

**BY CERTIFICATE OF MAILING**

The Chapter 1 Properties LLC  
231 Post Road West  
Westport, CT 06880

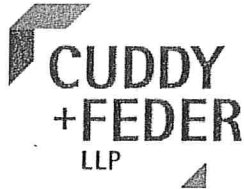
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Lucia Chiochio  
Enclosure

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Name and Address of Sender

**CUDDY + FEDER LLP**  
**445 HAMILTON AVENUE, 14TH FLOOR**  
**WHITE PLAINS, NY 10601**

USPS Tracking/Article Number

1.

Jim Marpe, First Selectman  
 Town of Westport  
 110 Myrtle Avenue, Room 310  
 Westport, CT 06880

2.

Mary Young  
 Planning & Zoning Director  
 Town of Westport  
 110 Myrtle Avenue, Room 310  
 Westport, CT 06880

3.

Silverman Westport Realty Assoc LLC  
 237 Mamaroneck Avenue  
 White Plains, NY 10605

5.

Silverman Westport Realty Assoc LLC  
 220 Post Road West  
 Westport, CT 06880

6.

7.

The Chapter 1 Properties LLC  
 231 Post Road West  
 Westport, CT 06880

8.

Total Number of Pieces Listed by Sender **5**

Total Number of Pieces Received at Post Office

Postmaster Per (Name of receiving employee)

PS Form 3877, January 2017 (Page 1 of 2)  
 PSN 7530-02-000-9098

Complete in Ink

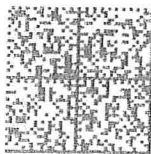
1844-3222

M. Paas 160

Privacy Notice: For more information on USPS privacy policies, visit [usps.com/privacypolicy](http://usps.com/privacypolicy).

Firm Mailing Book For Accountable Mail

Affix Stamp Here  
 (for additional copies of this receipt).  
 Postmark with Date of Receipt.



U.S. POSTAGE



PITNEY BOWES  
 ZIP 10601 \$ 002.00  
 02 4W  
 0000356099 SEP. 26 2019

Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Date of Sender COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
		Handling Charge - In Registered and over \$50,000 in value			SEP 26 2019 USPS	Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	Special Handling



Name and Address of Sender

**CUDDY + FEDER LLP**  
**445 HAMILTON AVENUE, 14TH FLOOR**  
**WHITE PLAINS, NY 10601**

USPS Tracking/Article Number

- 1.
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- 6.
- 7.
- 8.

- Check type of mail or service
- Adult Signature Required
  - Adult Signature Restricted Delivery
  - Certified Mail
  - Certified Mail Restricted Delivery
  - Collect on Delivery (COD)
  - Insured Mail
  - Priority Mail
  - Priority Mail Express
  - Registered Mail
  - Return Receipt for Merchandise
  - Signature Confirmation
  - Signature Confirmation Restricted Delivery

Addressee (Name, Street, City, State, & ZIP Code™)

Little Apple Westport LLC  
C/O Pliskin Realty  
591 Stewart Avenue, Ste 100  
Garden City, NY 11530

Little Apple Westport LLC  
C/O Pliskin Realty  
221 Post Road West  
Westport, CT 06881

Michael Calise  
P.O. Box 150  
Westport, NY 06881

Michael Calise  
215 Post Road West  
Westport, CT 06880

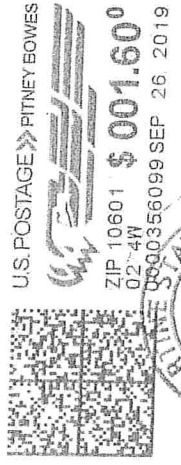
Postmaster, Per (Name of receiving employee)

Total Number of Pieces Listed by Sender: **4**

Total Number of Pieces Received at Post Office

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Firm Mailing Book For Accountable Mail



Affix Stamp Here  
(for additional copies of this receipt).  
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Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
		Handling Charge - Registered and over \$50,000 in value				Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	Special Handling

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1844-3222 M. POCISILLO

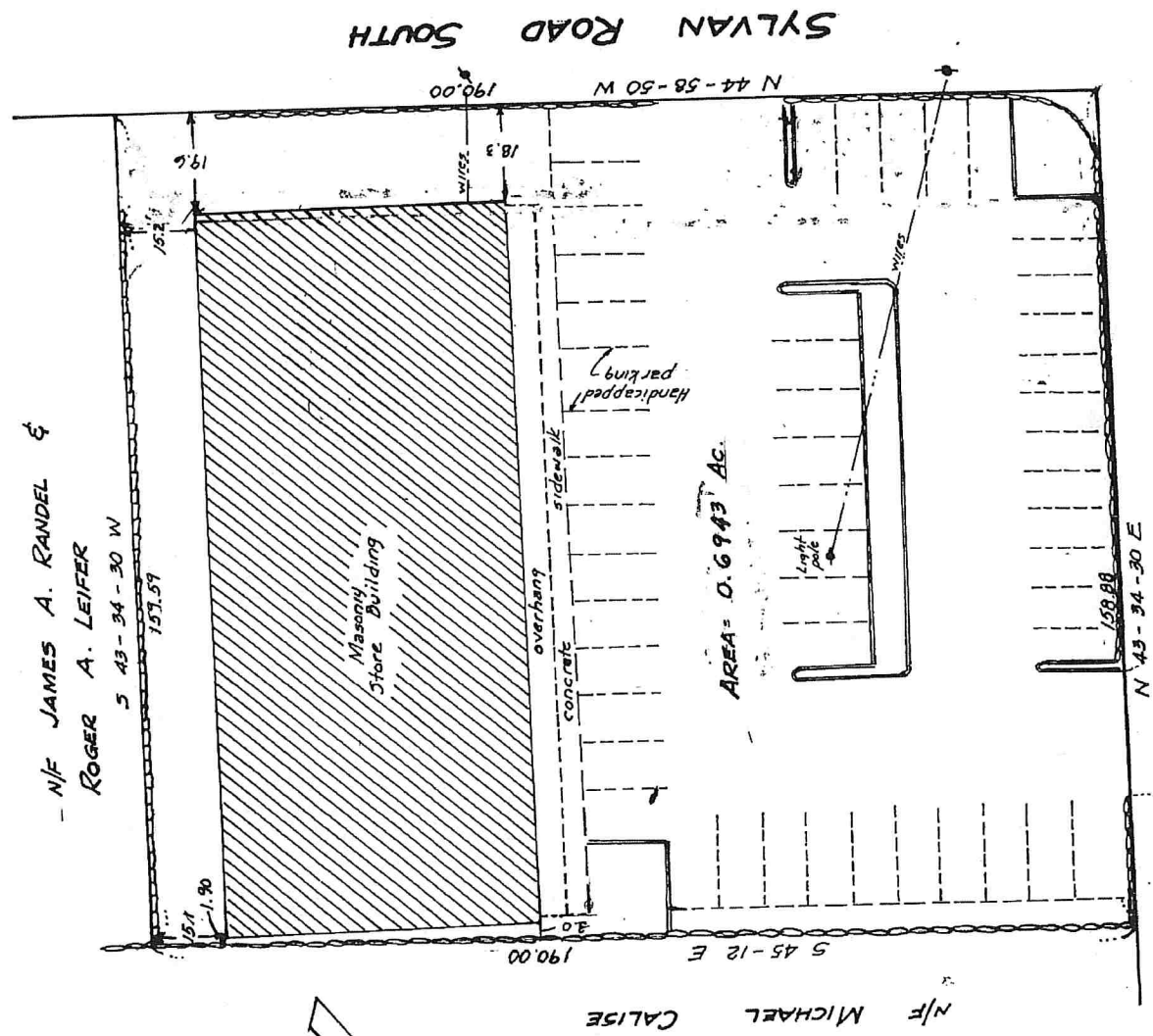
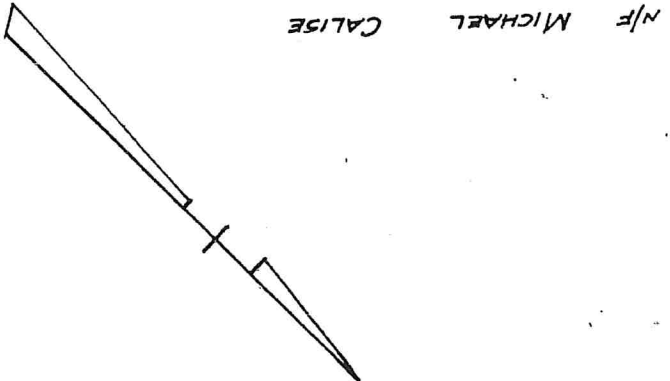
Complete in Ink

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8458

8458

N/E JAMES A. RANDEL &  
ROGER A. LEIFER  
S 43-34-30 W  
157.57



POST ROAD WEST

MAP OF PROPERTY

PREPARED FOR

THE WESTBANK SHOPPING  
CENTER

WESTPORT, CONN.

SEPT. 1, 1986.

SCALE 1" = 20'

I HEREBY CERTIFY TO THE LAWYERS TITLE INSURANCE COMPANY AND NORWALK SAVINGS SOCIETY that this survey and the measurements shown hereon are substantially correct; that the title lines and lines of actual possession are the same; that the buildings are located as shown and do not encroach over and upon street, tittle or building lines; that there are no violations of zoning ordinances, restrictions or other rules and regulations with reference to the location of said buildings, and that there are no easements or encroachments affecting this property apparent from a careful physical inspection of the same. I further certify that the information shown hereon conforms to standards of a Class "A-2" Survey

John T. Calise  
Conn. L.S. Reg. No. 5030



Filed: September 8, 1986

at: 4:16 P.M.

by: Helen M. Moore, East Town Clerk

# 8428

Refer to Map No. 1792 and No. 6370 on file  
in the Westport Land Records.

The owner hereby attests to the fact that this plan is neither a subdivision nor a re-subdivision as defined by the General Statutes of Connecticut and the Town of Westport or has been recorded without prior approval of the Westport Planning and Zoning Commission.

9-8-86  
Helen M. Moore  
East Town Clerk

8458

8458

FN 29-9 & PL 58-141

3

SPENCER STUART REALTY CORPORATION

S 43 - 34 - 30 W 138.88  
RETAINING WALL

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12.00

15.2

19.6

20.71

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S 44 - 48 - 5.00

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N 44 - 58 - 50 W → 190.00

PARCEL A = 0.009 AC

N 45 - 12 W → 75.00

0.080 AC

PARCEL B

MASONRY STORE BUILDING

POLE

WIRES

WIRES

WIRES

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WIRES

WIRES

WIRES

WIRES

WIRES

WIRES

WIRES

STREET LINE

PARCEL C

0.516 ACRE

N 50 - 4 - 48 E

103.00

N 45 - 12 W

20.00

POLE

WIRES

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WIRES

WIRES

WIRES

S 45 - 12 E 190.00

LIGHT POLE

WIRES

C. H. D. MON.

N 43 - 34 - 30 E 138.88

STATE MONUMENTED HIGHWAY LINE

WEST STATE STREET

MAP PREPARED FOR  
THE WESTBANK COMPANY

WESTPORT, CONN.

SCALE 1" = 20'  
BY JOHN T. CAHILL  
LAND SURVEYOR

WESTPORT, CONN.  
CERTIFIED SUBSTANTIALLY CORRECT

*John T. Cahill*  
L.S. # 5230

APPROVED BY THE ZONING BOARD OF APPEALS

*John S. Watson*  
CHAIRMAN

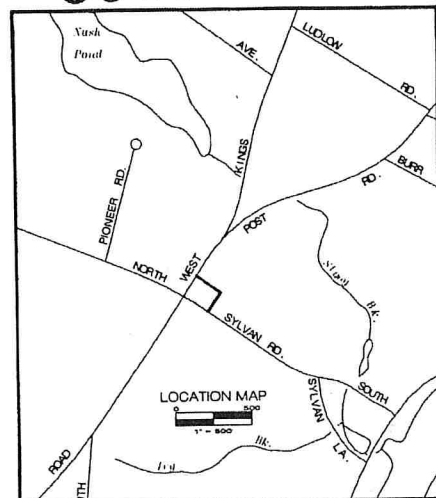
DATE

2-9-67

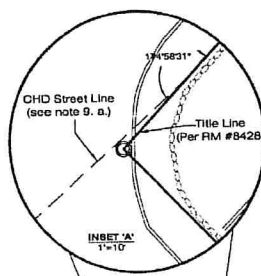
REFER TO MAP NO. 1792 W.L.R.

# 6370  
Filed April 20, 1967  
Joan E. Masmoto  
Town Clerk



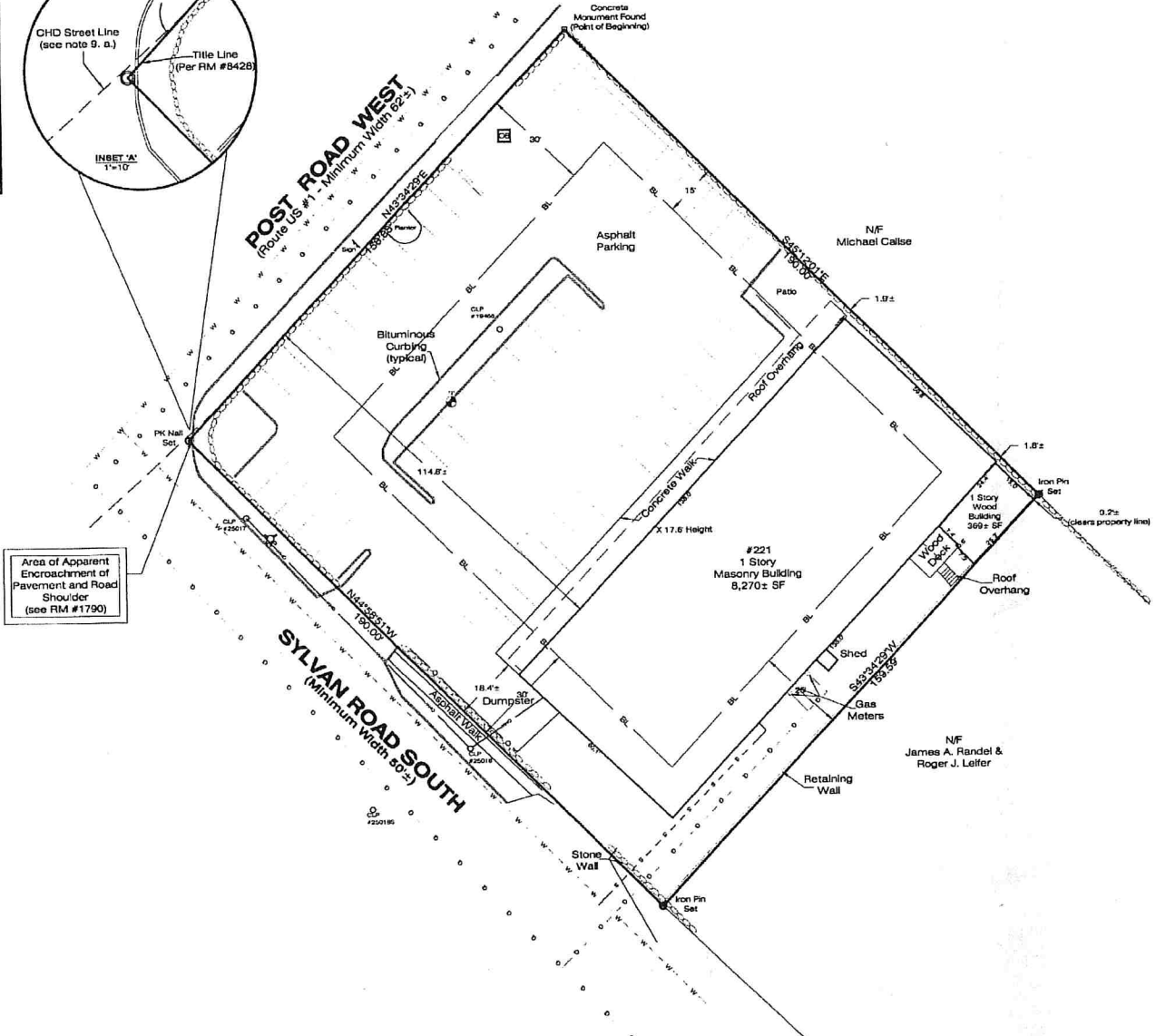


GENERAL BUSINESS DISTRICT		MINIMUM REQUIRED MAXIMUM ALLOWED
Minimum Lot Area		NONE
Minimum Lot Frontage		50
Setback From Street Line		30
Setback From One Side Property Lines		15
Setback From Rear Property Lines		25
Maximum Floor Area		10,000
Floor Area Ratio		25%



**LEGEND**

- ☐ - Catch Basin
- - Utility Pole
- - Chain Link Fence
- - Stockade Fence
- - Overhead Wires
- ⊕ - Hydrant
- NF - New or Formerly
- SF - Square Foot
- - Approximate Gas Line (see note 5.)
- - Approximate Sanitary Line (see note 5.)
- - Approximate Water Line (see note 5.)
- CHD - Connecticut Highway Department
- CL&P - Connecticut Light & Power



Area of Apparent Encroachment of Pavement and Road Shoulder (see RM #1790)

- NOTES:**
- This survey and map has been prepared in accordance with the Sections 20-300b-1 through 20-300b-20 of the Regulations of Connecticut State Agencies - "Minimum Standards for Survey and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a Existing Building Location Survey based upon a Dependent Resurvey and conforms to Horizontal Accuracy Class A-2.
  - Reference is made to the following maps on file in the Westport Town Clerk's Office:
    - A. RM #1155 - "Map of Property of Col. John N. Partridge, Westport CT" Dated October 1913, Scale 1"=40'.
    - B. RM #1700 - "Map of Property Belonging to Marie Dickie Thayer Conveyed to Her Nov. 1813 by Col. John N. Partridge" Dated October 1913; Scale 1"=40'.
    - B. RM #7801 - "Subdivision Map of Property Prepared for Meag Corp. of America Westport, Conn." Scale 1"=40'; Dated May 2, 1980; Prepared by Dennis A. DeLuss.
    - C. RM #8428 - "Map of Property for The Westbank Shopping Center, Westport Connecticut" Scale 1"=20'; Dated September 1, 1986; Prepared By John T. Cahill.
  - The location of underground utilities, if any, is unknown
  - Property is located in FEMA Zone C. Per Flood Insurance Rate Map, Community Panel #09001 90004 B, Revised December 4, 1984.
  - The underground utilities shown have been located from visible field survey information and information obtained from the site contractor and/or utility company. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does hereby declare that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities. Call Before You Dig 1-800-922-4455.
  - Total number of striped parking spaces on parcel is 47 Spaces of which 0 are Handicap.
  - The property has direct physical access to Post Road West and Sylvan Street South, both public streets or highways.
  - Total site area = 30,246± Square Feet.
  - Reference is made to the following map on file with the State of Connecticut Department of Transportation:
    - A. "Connecticut State Highway Department Right of Way Map Town of Westport Boston Post Road From The Norwalk Town Line Easterly to Nashs Corner Route U.S. 1" Scale 1"=40'; No. 575; Sheet 2 of 2.
  - This survey was performed with the benefit of a Title report prepared for The Law Offices Of George C. Guldere; Prepared by First American Title Insurance Company; Order No: CTSta1114c.
  - Reference is hereby made to Connecticut General Statute 8-13a, as amended, with regards to existing structures three or more years old.
  - Reference is made to the following document on file in the Westport Town Clerk's Office:
    - A. Volume 1588 Page 256 - Patio use in 15' setback
  - As of the date of this survey there are no traffic arrows.

The owner hereby attests to the fact that this map is a subdivision not a resubdivision as defined by the General Statutes of Connecticut and the Town of Westport, and may be recorded without prior approval of the Westport Planning and Zoning Commission.

*James A. Randel*  
 Date: 7/1/04  
 Title: Surveyor

Rec'd for record  
 July 2, 2004 @ 9:50 A.M.  
*Lucette C. Heger*  
 Asst. Town Clerk

THIS MAP PRODUCED BY ORIGINAL INK DRAWING ON POLY F.M. OR LINEN. HUR-TAC-1000, CLEARFAX 1150 POST ROAD, FAIRFIELD, CT 06430

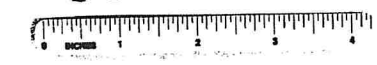
NOT VALID UNLESS EMBOSSED WITH SEAL OR FRIED WITH THE LIVE STAMP OF THE SIGNATORY TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*James A. Randel*  
 Surveyor, L.S. #1175

NO.	DATE	DESCRIPTION

**EXISTING BUILDING LOCATION SURVEY**  
 PREPARED FOR  
**WESTBANK SHOPPING CENTER ASSOCIATES**  
 221 POST ROAD WEST  
 WESTPORT, CONNECTICUT

DATE: JUNE 17, 2004	SCALE: 1"=20'	DRAFTER: J.S.E.	JOB NUMBER: 5304	FILE NUMBER: 1/1
THE HUNTINGTON COMPANY, LLC Consulting Engineers & Surveyors 1150 Post Road, Fairfield, CT 06424-1091				

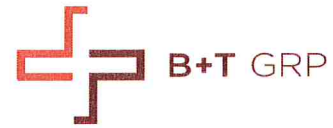




**5**

August 27, 2019

Vincent Paquette  
Centerline Communications  
95 Ryan Drive, Suite 1  
Raynham, MA 02767  
(508) 386-0863



B+T Group  
1717 S. Boulder, Suite 300  
Tulsa, OK 74119  
(918) 587-4630  
btwo@btgrp.com

**Subject:** Feasibility Structural Analysis Report

**AT&T Mobility Designation:** **Site Information:** CRAN\_NORWALK\_10  
Node 10

**Engineering Firm Designation:** **B+T Group Project Number:** 132665.003.01 Rev A

**Site Data:** **221 Post Road West, Westport, CT 06880, Fairfield County**  
**Latitude 41.134795 Longitude -73.371997**  
**24.5 Foot – Utility Pole**

Dear Vincent Paquette,

B+T Group is pleased to submit this “Feasibility Structural Analysis Report” to determine the structural integrity of the above-mentioned Utility Pole.

The purpose of the analysis is to determine acceptability of the pole stress level. Based on our analysis we have determined the pole stress level for the structure under the following load case to be sufficient.

ANALYSIS RESULTS:	%	Result	Comments
Pole Stress Level with Proposed Equipment (wind only):	49.6	Pass	N/A
Pole Stress Level with Proposed Equipment (wind/ice):	47.1	Pass	N/A

**ANALYSIS RESULTS BASED UPON THE FOLLOWING POLE CONDITIONS:**

Existing Pole Height Above Grade	Existing Pole Length/Class	New Pole Length/Class	New Pole Embedment (ft)	New Pole Height Above Grade (ft)	New Guy Wires Required
24.5	NA	40/2	6	34	N/A

The criteria considered in the analysis meets the specifications of the 2018 Connecticut State Building Code (2015 IBC) based upon an ultimate 3-second gust wind speed of 125 mph with no ice and 50 mph with 0.75-inch ice thickness as required for use in the TIA-222-G Standard.

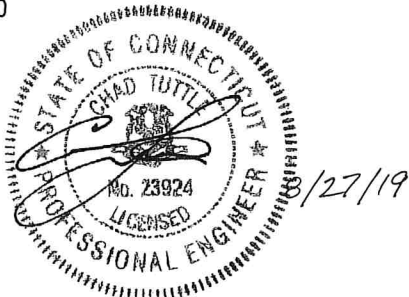
All equipment proposed in this report shall be installed in accordance with the construction drawings for the determined available structural capacity to be effective.

We at B+T Group appreciate the opportunity of providing our continuing professional services to you and Centerline Communications. If you have any questions or need further assistance on this or any other projects, please give us a call.

Structural analysis prepared by: Nitin K Manjunath

Respectfully submitted by: B&T Engineering, Inc.  
COA: PEC.0001564 Expires: 2/10/2020

Chad E. Tuttle, P.E.



## 1) ANALYSIS PROCEDURE

### 1.1) Analysis Method

O-Calc Pro (version 6.00), a commercially available analysis software package, was used to create a three-dimensional model of the pole and calculate member stresses for various loading cases. Selected output from the analysis is attached.

### 1.2) Assumptions

- 1) Poles and structures were built in accordance with the manufacturer's specifications.
- 2) The poles and structures have been maintained in accordance with the manufacturer's specification.
- 3) Weights of existing equipment are assumed.
- 4) The foundation is acceptable.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the pole.

## 2) RECOMMENDATIONS

The pole has sufficient capacity to carry the proposed equipment configuration. No modifications are required at this time.



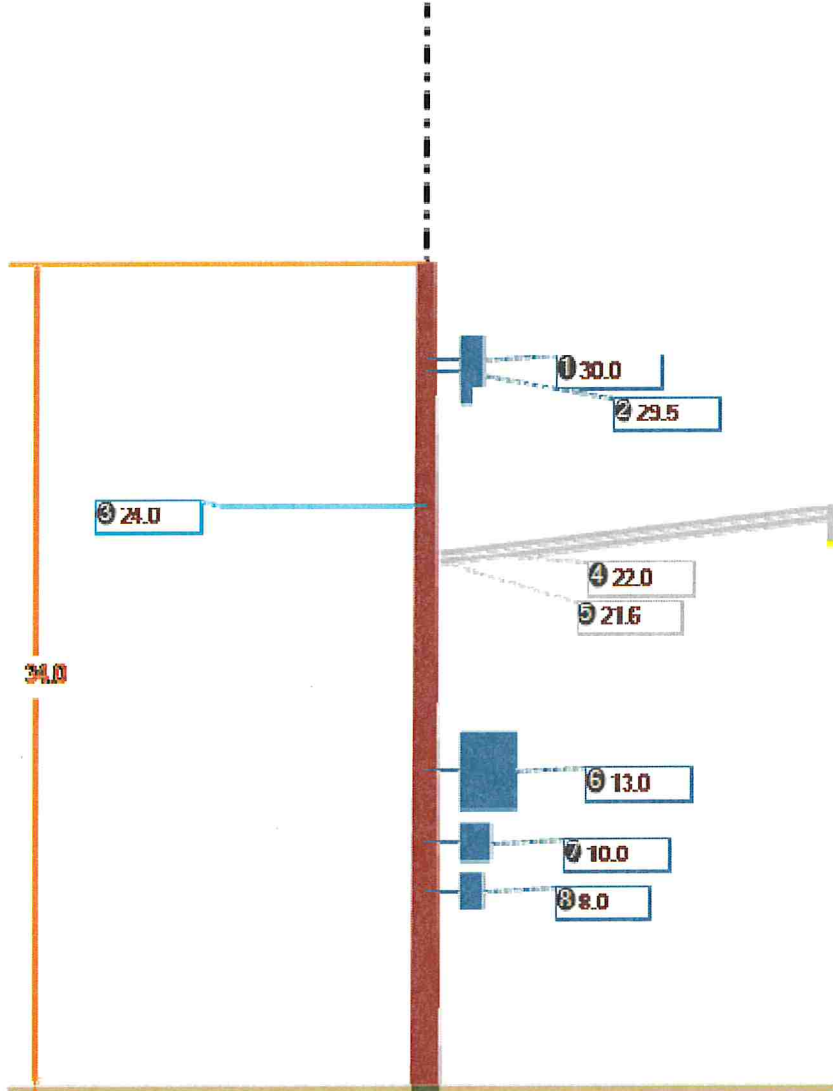


# O-Calc® Pro Schematic View

Pole Identification: cRAN\_norwalk\_10

Report Created: 8/27/2019

File: cRAN\_norwalk\_10 - Copy.pplx



1 - 30.0	Extent P6480i
2 - 29.5	Equipment
3 - 24.0	1/4" EHS 200° 90.0 Msgr:0.250"
4 - 22.0	Streetlight - 15 ft. Arm 15.0 ft arm
5 - 21.6	Streetlight - 15 ft. Arm 15.0 ft arm
6 - 13.0	AT&T Radio Equipment
7 - 10.0	Eaton SKT 200A Meter

8 - 8.0

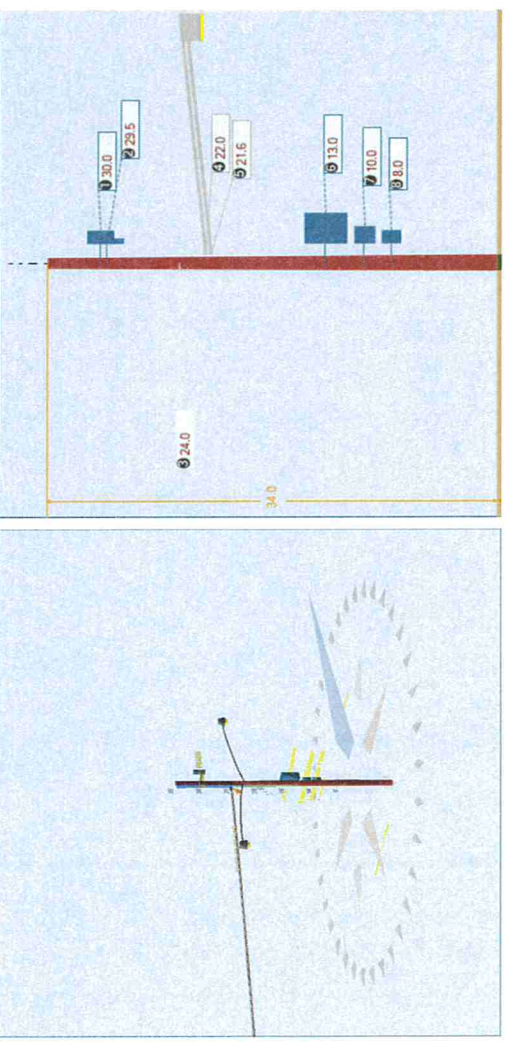
Eaton Breaker Panel



Pole Num:	cRAN_norwalk_10	Pole Length / Class:	40 / 2	Code:	40 / 2	N/A	Structure Type:	N/A	Deadend
Aux Data 1	G0132665.003.01	Species:	SOUTHERN PINE	NESC Rule:	6.0	-	Status	-	Unguyed
Aux Data 2	221 POST ROAD WEST	Setting Depth (ft):	6.0	Construction Grade:	38.50	N/A	Pole Strength Factor:	0.75	0.75
Aux Data 3	WESTPORT, CT 06880	G/L Circumference (in):	8,000	Loading District:	8,000	N/A	Transverse Wind LF:	1.00	1.00
Aux Data 4	FAIRFIELD COUNTY	G/L Fiber Stress (psi):	6,000	Ice Thickness (in):	6,000	0.00	Wire Tension LF:	1.00	1.00
Aux Data 5		Allowable Stress (psi):	No	Wind Speed (mph):	125.00	125.00	Vertical LF:	1.00	1.00
Aux Data 6		Fiber Stress Ht. Reduc:	41.134795	Wind Pressure (psf):	40.00	40.00			
Latitude:		Longitude:				-73.371997	Elevation:		0'

Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	49.6	141.2
Groundline	49.6	141.2
Vertical	1.7	141.2

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	44,643	141.2
Groundline	44,643	141.2
GL Allowable	90,345	



**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 145.5°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	338	14.2	8,354	18.7	9.3	538	8	0	538	9.0
Comms	82	3.5	2,048	4.6	2.3	132	18	0	132	2.2
GenericEquipments	508	21.3	7,833	17.6	8.7	505	181	2	506	8.4
Pole	1,014	42.6	16,503	37.0	18.3	1,063	1,154	10	1,073	17.9
Streetlights	424	17.8	9,596	21.5	10.6	618	230	2	620	10.3
Insulators	12	0.5	309	0.7	0.3	20	3	0	20	0.3
Pole Load	2,379	100.0	44,643	100.0	49.4	2,877	1,593	14	2,890	48.2
Pole Reserve Capacity			45,702		50.6	3,123			3,110	51.8

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 145.5°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	1,365	57.4	28,140	63.0	31.2	1,813	440	4	1,817	30.3
AT&T	1,014	42.6	16,503	37.0	18.3	1,063	1,154	10	1,073	17.9
<b>Totals:</b>	2,379	100.0	44,643	100.0	49.4	2,877	1,593	14	2,890	48.2

**Detailed Load Components:**

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Secondary	TRIPLEX 6 AWG	23.79	17.36	0.2500		0.049	90.0	200.0	90.0	300	4,176	2	1,955	1,956
Overlashed Bundle	1/4" EHS	24.00	17.36	0.2500	2.30	0.121	90.0	200.0	90.0	300	4,176	1	1,972	6,149
<b>Totals:</b>											4,176	3	3,926	8,105

**Comm**

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	TELE 1.0	24.00	17.36	0.2500		0.400	90.0	200.0	90.0	300	4,176	15	1,972	1,987
<b>Totals:</b>											0	15	1,972	1,987

**GenericEquipment**

GenericEquipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Diameter (in)	Unit Length (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)

# O-Calc® Pro Analysis Report

	Extent P64801	30.00	33.23	90.0	0.0	19.00	24.70	10.00	--	30	1,930	1,960
Cylinder	Equipment	29.50	14.26	90.0	0.0	1.00	30.00	4.00	--	1	919	920
Box	AT&T Radio Equipment	13.00	12.81	0.0	0.0	135.00	39.00	--	23.00	-119	3,685	3,567
Box	Eaton SKT 200A Meter	10.00	8.00	0.0	0.0	10.00	19.00	--	13.00	-5	696	690
Box	Eaton Breaker Panel	8.00	9.37	0.0	0.0	16.00	18.00	--	10.00	-10	473	463
<b>Totals:</b>										<b>-104</b>	<b>7,703</b>	<b>7,599</b>

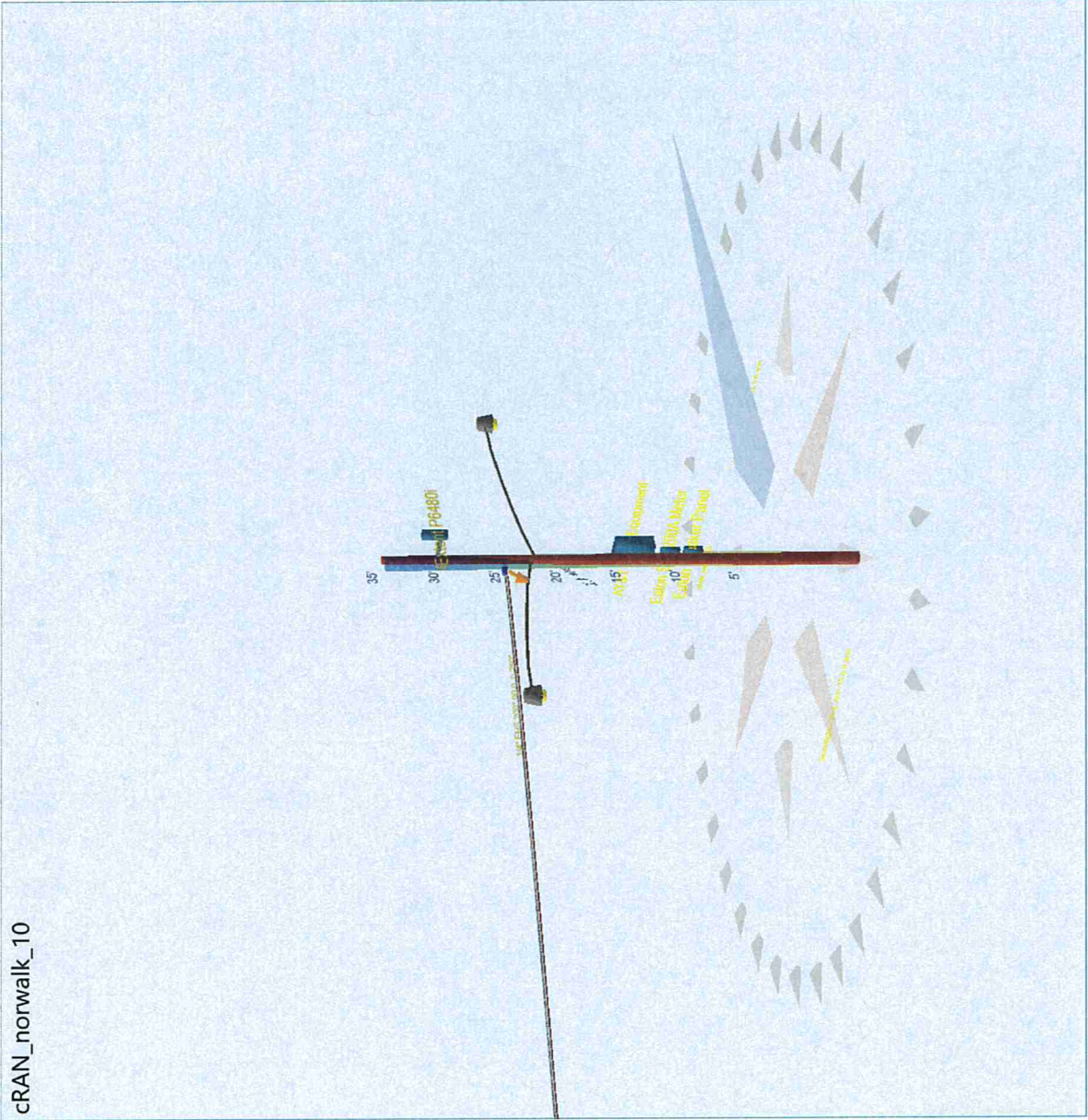
Streetlight	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
General	Streetlight - 15 ft. Arm	22.00	4.74	175.0	175.0	115.00	24.00	20.00	3.00	180.00	1,082	4,674	5,757
General	Streetlight - 15 ft. Arm	21.60	4.76	0.0	0.0	115.00	24.00	20.00	3.00	180.00	-1,025	4,579	3,554
<b>Totals:</b>										<b>57</b>	<b>9,253</b>	<b>9,310</b>	

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)	
Deadend	Deadend 12.75"	24.00	0.00	200.0	200.0	3.00	3.80	12.75	3	297	300	
<b>Totals:</b>										<b>3</b>	<b>297</b>	<b>300</b>

Pole Buckling	Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
	2.00	16.15	32.50	11.59	4.43	7.96	12.26	2.13e+6	60.00	57.00	34.00	93,048	937.17	58.82



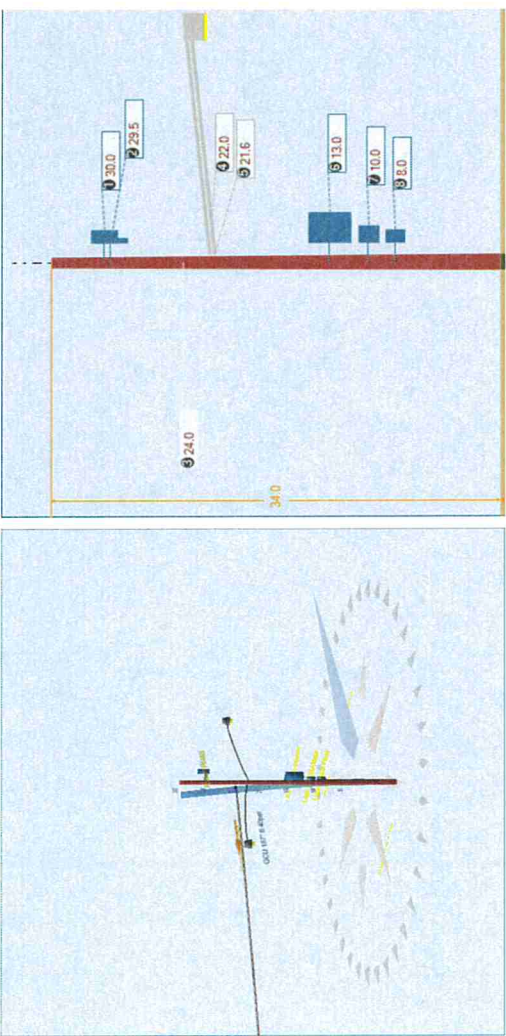
cRAN\_norwalk\_10



Pole Num:	cRAN_norwalk_10	Pole Length / Class:	40 / 2	Code:	N/A	Structure Type:	Deadend
Aux Data 1	G0132665.003.01	Species:	SOUTHERN PINE	NESC Rule:	-	Status	Unguyed
Aux Data 2	221 POST ROAD WEST	Setting Depth (ft):	6.0	Construction Grade:	N/A	Pole Strength Factor:	0.75
Aux Data 3	WESTPORT, CT 06880	G/L Circumference (in):	38.50	Loading District:	N/A	Transverse Wind LF:	1.00
Aux Data 4	FAIRFIELD COUNTY	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.75	Wire Tension LF:	1.00
Aux Data 5	Unset	Allowable Stress (psi):	6,000	Wind Speed (mph):	50.00	Vertical LF:	1.00
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	6.40		
Latitude:	41.134795	Longitude:	-73.371997	Elevation:			0'

Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	15.5	187.0
Groundline	15.5	187.0
Vertical	2.1	187.0

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	13,826	191.1
Groundline	13,826	191.1
GL Allowable	90,345	





**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 191.1°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	299	44.7	7,383	53.4	8.2	483	107	1	484	8.1
Comms	1	0.1	117	0.8	0.1	8	67	1	8	0.1
GenericEquipments	109	16.3	1,430	10.3	1.6	94	181	2	95	1.6
Pole	183	27.3	3,218	23.3	3.6	211	1,154	10	220	3.7
Streetlights	75	11.1	1,621	11.7	1.8	106	230	2	108	1.8
Insulators	2	0.3	57	0.4	0.1	4	3	0	4	0.1
Pole Load	669	100.0	13,826	100.0	15.3	905	1,742	15	920	15.3
Pole Reserve Capacity			76,519		84.7	5,095			5,080	84.7

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 191.1°**

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	486	72.7	10,608	76.7	11.7	694	588	5	699	11.7
AT&T	183	27.3	3,218	23.3	3.6	211	1,154	10	220	3.7
<b>Totals:</b>	669	100.0	13,826	100.0	15.3	905	1,742	15	920	15.3

**Detailed Load Components:**

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Secondary	TRIPLEX 6 AWG	23.79	17.36	0.2500		0.049	90.0	200.0	90.0	300	7,114	74	18	92
Overlashed Bundle	1/4" EHS	24.00	17.36	0.2500	2.20	0.121	90.0	200.0	90.0	300	7,114	21	48	7,183
<b>Totals:</b>											7,114	95	67	7,275

**Comm**

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	TELE 1.0	24.00	17.36	0.2500		0.400	90.0	200.0	90.0	300	7,114	96	19	115
<b>Totals:</b>											0	96	19	115

**GenericEquipment**

GenericEquipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Diameter (in)	Unit Length (in)	Unit Moment* (ft-lb)	Moment at GL* (ft-lb)



### O-Calc® Pro Analysis Report

	Extent P64801	30.00	33.23	90.0	0.0	19.00	24.70	--	10.00	--	-10	328	318
Cylinder	Equipment	29.50	14.26	90.0	0.0	1.00	30.00	--	4.00	--	0	157	157
Box	AT&T Radio Equipment	13.00	12.81	0.0	0.0	135.00	39.00	23.00	--	23.00	-141	820	679
Box	Eaton SKT 200A Meter	10.00	8.00	0.0	0.0	10.00	19.00	5.00	--	13.00	-7	173	166
Box	Eaton Breaker Panel	8.00	9.37	0.0	0.0	16.00	18.00	7.50	--	10.00	-12	102	89
<b>Totals:</b>											<b>-171</b>	<b>1,580</b>	<b>1,409</b>

Streetlight	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
General	Streetlight - 15 ft. Arm	22.00	4.74	175.0	175.0	115.00	24.00	20.00	3.00	180.00	1,195	819	2,014
General	Streetlight - 15 ft. Arm	21.60	4.76	0.0	0.0	115.00	24.00	20.00	3.00	180.00	-1,221	804	-417
<b>Totals:</b>											<b>-26</b>	<b>1,624</b>	<b>1,598</b>

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)		
Deadend	Deadend 12.75"	24.00	0.00	200.0	200.0	3.00	3.80	12.75	4	52	56		
<b>Totals:</b>											<b>4</b>	<b>52</b>	<b>56</b>

Pole Buckling	Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	16.95	32.62	11.56	4.66	7.96	12.26	2.13e+6	60.00	57.00	34.00	83,408	829.31	47.62	

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