

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 WIRELESS  
TELECOMMUNICATIONS FACILITY ON  
PROPERTY LOCATED 50 BIDWELL  
STREET/RAMER DRIVE, MANCHESTER,  
CONNECTICUT.

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

May 16, 2022

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 wireless telecommunications facility on the Manchester Community College (“MCC”) campus at 50 Bidwell Street/Ramer Drive, Manchester, Connecticut (the “Site”). AT&T proposes to install a 37’-6” tall utility pole with a panel antenna mounted to the top of the pole and associated equipment located at the base of the pole within an enclosure. The proposed facility will be located in the southeastern portion of the campus near the driveway to the Bicentennial Band Shell. The property is owned by the State and authorization for AT&T to file this Petition is included in **Attachment 1**.

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 Manchester and the MCC campus. 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. The Site and AT&T’s Proposed Tower Facility

The MCC campus is an approximately 57 acres in size and is located just south of I-384 in the south-western portion of the town. It is classified in the RR Rural Residential Zoning District. Surrounding land uses include residential a farm to the west and commercial uses across I-384.

AT&T's proposed Facility consists of one small square panel antenna mounted at the top of a new utility pole at a centerline height of approximately 36'-3" above grade level ("AGL") on the 37'-6" tall utility pole. Associated unmanned equipment, including remote radio head ("RRH") units will be installed within an enclosure at the base of the pole. The panel is approximately 23.3" square. AT&T will deploy their 1900 MHz, AWS and 5150 MHz frequencies. Specifications and details of AT&T's proposed Facility are shown on the drawings included in **Attachment 2**. Also, included in **Attachment 3** is a structural analysis report confirming that AT&T's proposed Facility can be structurally accommodated.

No back-up power for AT&T's proposed Facility is proposed. Construction will take place five (5) days a week, only during weekdays (Monday – Friday). The total duration of construction and facility integration is 90 days. The approximate cost is \$50,000.

c. Council Jurisdiction

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 right-of-way fall under PURA's jurisdiction. Thus, PURA has jurisdiction over small cell facility attachments to utility poles that are part of the electric utility distribution system located within the public right-of-way. PURA, Docket 16-06-38.

Here, the proposed utility pole will be "used principally to support one or more antennas for receiving or sending radio frequency signals" and the pole will not, for the foreseeable future, be used as a part of the existing electric distribution system. Thus, the proposed utility pole along with AT&T's wireless equipment constitutes a "facility" over which the Council has jurisdiction. This jurisdiction is consistent with the Council's November 5, 2007 Opinion in Petition No. 809.

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 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

AT&T's proposed Facility will not result in any physical or environmental change to the Site or any adjacent parcels. Minimal disturbance is associated with the proposed Facility.

ii. Visual Effects

The photosimulation included in **Attachment 4** demonstrates that the limited nature of AT&T's proposed Facility will not result in any significant visual impacts to the area. Indeed, the photosimulations demonstrate that the proposed Facility will appear similar to the existing adjacent street lamp.

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 5**. 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 of Petition Filing

Pursuant to R.C.S.A. Section 16-50j-40(a), notice of AT&T's intent to file this Petition was sent to each person appearing of record as an owner of property that abuts the site, as well as the appropriate municipal officials and government agencies as required by Section 16-50l of the C.G.S. Certification of such notice, a copy of the notice and the list of property owners is included in **Attachment 6** along with the map from the Town's GIS website used to identify abutting property owners. **Attachment 6** also includes a certification of service to municipal officials and government agencies to whom notice was sent.

IV. Conclusion

As set forth above, AT&T's proposed 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 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: Mayor Jay Moran  
Gary Anderson, AICP Director of Planning and Economic Development  
AT&T  
Centerline

# **Attachment 1**

LETTER OF AUTHORIZATION

**RE: New Cingular Wireless-Small Cell Installation // cRAN\_RCTB\_MANC\_003**

**ADDRESS: 50 Bidwell Street Manchester, CT**

The Connecticut State Colleges and Universities for Manchester Community College (MCC), in its capacity of maintaining care and control of state property, authorize New Cingular Wireless PCS, LLC ("AT&T") and/or their agent, to act as our nonexclusive agent for the sole purpose of filing and consummating any land use or building permit application(s) necessary to obtain approval of the applicable jurisdiction for AT&T's modification to the existing wireless communications facility at the above described property. All filings and requests made by New Cingular Wireless must be constant with prior approvals provided by MCC.

We understand that this application may be denied, modified or approved with conditions, and that any such conditions of approval or modifications will be the sole responsibility of the carrier and will be complied with prior to issuance of a building permit. Conditions and modifications not included in MCC's initial approval must be approved by MCC.

This authorization does not provide a final approval of the installation or implicate the CSCU or MCC to any project expense.

Sincerely,



2/15/22

Keith Epstein  
Vice President of Facilities, Planning & Real Estate  
Connecticut State Colleges and Universities

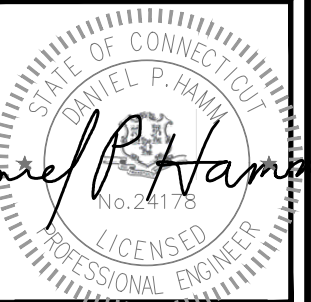
cc Andrew Frazier, MCC  
Stephen Burke, CSCU

## **Attachment 2**



**AT&T SITE ID: CRAN\_RCTB\_MANC\_003**  
**50 BIDWELL ST.- RAMEY DR**  
**MANCHESTER, CT 06040**

**ISSUED FOR PERMITTING**



CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
3	05/04/22	ISSUED FOR PERMITTING	SG
2	12/21/21	ISSUED FOR PERMITTING	MR
1	12/10/20	ISSUED FOR PERMITTING	MR
A	05/26/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:  
 CRAN\_RCTB\_MANC\_003

SITE ID:  
 CRAN\_RCTB\_MANC\_003

SITE ADDRESS:  
 50 BIDWELL ST.- RAMEY DR  
 MANCHESTER, CT 06040  
 HARTFORD COUNTY

SHEET TITLE  
 TITLE SHEET

SHEET NUMBER  
**T-1**

**SHEET INDEX**

SHEET NO.	DESCRIPTION	REV.
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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.

*Daniel P. Hamm*

**PROJECT DESCRIPTION**

1. INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON PROPOSED UTILITY POLE.
2. THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT SITE AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF IMPROVING CELLULAR AND WIRELESS INTERNET SERVICE.

**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.

**PROJECT SUMMARY**

SITE ADDRESS: 50 BIDWELL ST.- RAMEY DR  
 MANCHESTER, CT 06040

COUNTY: HARTFORD

LATITUDE: 41.760289° N

LONGITUDE: 72.560078° W

OWNER: STATE OF CONNECTICUT C/O  
 MANCHESTER COMMUNITY COLLEGE

STRUCTURE TYPE: UTILITY POLE

POLE NUMBER: #44

ARCHITECT/ENGINEER: HUDSON DESIGN GROUP LLC  
 45 BEECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845

**DRIVING DIRECTIONS**

FROM ROCKY HILL, CT:

HEAD SOUTH TOWARD ENTERPRISE DR. TURN LEFT ONTO ENTERPRISE DR. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO STATE HWY 411 TURN LEFT TO MERGE ONTO I-91 N. MERGE ONTO I-91 N. MERGE ONTO I-91 N. TAKE EXIT 29 TO MERGE ONTO CT-15 N/US-5 TOWARD I-84 E/E HARTFORD/BOSTON. CONTINUE ONTO CT-15 N/ TAKE EXIT ON THE LEFT ONTO I-84 E TOWARD BOSTON. TAKE EXIT 59 FOR I-384 E TOWARD PROVIDENCE. KEEP RIGHT TO CONTINUE ON EXIT 1, FOLLOW SIGNS FOR SPENCER ST. TURN LEFT ONTO STATE HWY 502/SPENCER ST. TURN RIGHT ONTO HILLSTOWN RD. TURN LEFT ONTO WETHERELL ST. TURN LEFT ONTO RAMEY DR.

**72 HOURS**

CALL  
**BEFORE YOU DIG**

CALL TOLL FREE **1-800-922-4455**  
 OR CALL **811**

**UNDERGROUND SERVICE ALERT**



**GENERAL NOTES**

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – CENTERLINE  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T MOBILITY
- 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.
- 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.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "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.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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.
- 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.
- 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.
- 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.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- 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.
- 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.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
- 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: IBC 2015 WITH 2018 CT SUPPLEMENT**  
**ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)**

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-H, 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.

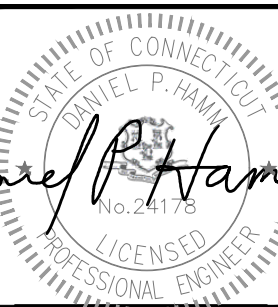
19. CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S LOW RISK HANDBOOK FOR EROSION PROTECTION AND SEDIMENT CONTROL

20. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY REQUIRED RIGHT OF WAY PERMITS FOR INSTALLATION IN PUBLIC RIGHT OF WAY.

**GROUNDING NOTES**

- 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) LIGHTING 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.
- 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.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) 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.
- 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.
- 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 AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 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		



*Daniel P. Hamm*

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
3	05/04/22	ISSUED FOR PERMITTING	SG
2	12/21/21	ISSUED FOR PERMITTING	MR
1	12/10/20	ISSUED FOR PERMITTING	MR
A	05/26/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:  
 CRAN\_RCTB\_MANC\_003

SITE ID:  
 CRAN\_RCTB\_MANC\_003

SITE ADDRESS:  
 50 BIDWELL ST. - RAMEY DR  
 MANCHESTER, CT 06040  
 HARTFORD COUNTY

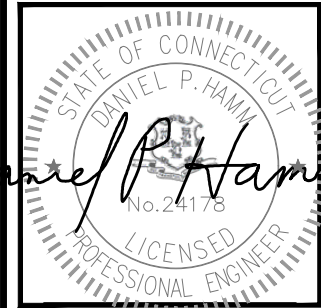
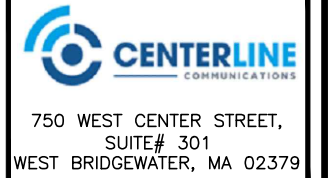
SHEET TITLE  
 GENERAL NOTES

SHEET NUMBER  
**GN-1**

**IMMEDIATE ADJOINING PROPERTY OWNER INFORMATION**

PARCEL	OWNER	PHYSICAL ADDRESS	MAILING ADDRESS
047000060	STATE OF CONNECTICUT COMMUNITY COLLEGE	60 BIDWELL STREET MANCHESTER, CT 06040	165 CAPITOL AVE. UNIT DPW HARTFORD, CT 06106

APPROXIMATE COORDINATES: LAT: 41.760289° N  
LONG: 72.560078° W



*Daniel P. Hamm*

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
3	05/04/22	ISSUED FOR PERMITTING	SG
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SITE ID:  
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SITE ADDRESS:  
50 BIDWELL ST. - RAMEY DR  
MANCHESTER, CT 06040  
HARTFORD COUNTY

SHEET TITLE  
SITE PLAN

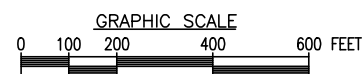
SHEET NUMBER  
C-1



INFORMATION SHOWN HEREON IS BASED ON EXISTING INFORMATION OBTAINED FROM TAX MAPS, MUNICIPAL GIS WEBSITE, & AERIAL IMAGERY. THE INFORMATION SHOWN IS NOT A RIGHT OF WAY OR BOUNDARY SURVEY AND DOES NOT SATISFY THE REQUIREMENTS FOR A BOUNDARY SURVEY. A SITE SURVEY WAS NOT PERFORMED BY HUDSON DESIGN GROUP, LLC

**SITE PLAN**

22x34 SCALE: 1"=200'  
11x17 SCALE: 1"=400'



**IMMEDIATE ADJOINING PROPERTY OWNER INFORMATION**

PARCEL	OWNER	PHYSICAL ADDRESS	MAILING ADDRESS
04700060	STATE OF CONNECTICUT COMMUNITY COLLEGE	60 BIDWELL STREET MANCHESTER, CT 06040	165 CAPITOL AVE. UNIT DPW HARTFORD, CT 06106

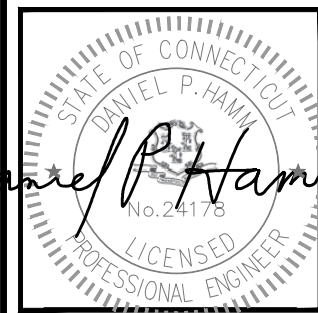
APPROXIMATE COORDINATES: LAT: 41.760289° N  
LONG: 72.560078° W



750 WEST CENTER STREET,  
SUITE# 301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE TEL: (978) 557-5553  
N. ANDOVER, MA 01845 FAX: (978) 336-5586



*Daniel P. Haman*

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS			
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SITE ADDRESS:  
50 BIDWELL ST. - RAMEY DR  
MANCHESTER, CT 06040  
HARTFORD COUNTY

SHEET TITLE  
ABUTTERS LIST

SHEET NUMBER  
C-2

Owner Name	Owner Address	Owner City	Owner Stat	Owner Zip Code	RPKEY	Parcel Address
PALMA, HEMONTO F	642 WETHERELL ST	MANCHESTER	CT	06040	598000642	642 WETHERELL ST
SMITH, LISA B	636 WETHERELL ST	MANCHESTER	CT	06040-6351	598000636	636 WETHERELL ST
FOX, NATHAN P	626 WETHERELL ST	MANCHESTER	CT	06040-6351	598000626	626 WETHERELL ST
VILGA, HELEN S	618 WETHERELL ST	MANCHESTER	CT	06040-6351	598000618	618 WETHERELL ST
BUCKLAND, LINDA J	610 WETHERELL ST	MANCHESTER	CT	06040	598000610	610 WETHERELL ST
ARMETTA, ANTHONY	8 WOODSIDE ST	MANCHESTER	CT	06040	614000008	8 WOODSIDE ST
WARD, THOMAS W	674 WETHERELL ST	MANCHESTER	CT	06040-6351	598000674	674 WETHERELL ST
GEER, SHIRLEY D	668 WETHERELL ST	MANCHESTER	CT	06040	598000668	668 WETHERELL ST
STOVEKEN, JAMES E III	658 WETHERELL ST	MANCHESTER	CT	06040-6351	598000658	658 WETHERELL ST
PALMA, HERMONTO	652 WETHERELL ST	MANCHESTER	CT	06040-6351	598000652	652 WETHERELL ST
HENAULT, LISA M	70 ROLLINGVIEW DR	VERNON	CT	06066	598000602	602 WETHERELL ST
BOYNTON, KENNETH J	100 DOBSON RD UNIT 25	VERNON	CT	06066	039500240R	240R BAYBERRY RD
MENDITTO, MICHAEL F	596 WETHERELL ST	MANCHESTER	CT	06040	598000596	596 WETHERELL ST
HINDS, MIRIAM A	448 WETHERELL ST	MANCHESTER	CT	06040	598000448	448 WETHERELL ST
SCHNEIDER, JOHN	580 WETHERELL ST	MANCHESTER	CT	06040-6351	598000580	580 WETHERELL ST
ALVARADO, KITSHA O	572 WETHERELL ST	MANCHESTER	CT	06040	598000572	572 WETHERELL ST
THERRIEN, LINDA J	450 WETHERELL ST	MANCHESTER	CT	06040	598000450	450 WETHERELL ST
SIROIS, RYAN A	564 WETHERELL ST	MANCHESTER	CT	06040	598000564	564 WETHERELL ST
FOURNIER, GARY	556 WETHERELL ST	MANCHESTER	CT	06040	598000556	556 WETHERELL ST
GENT, JACQUELINE R	548 WETHERELL ST	MANCHESTER	CT	06040	598000548	548 WETHERELL ST
OKWUAZI, ANGELA D	454 WETHERELL ST	MANCHESTER	CT	06040	598000454	454 WETHERELL ST
STONE, MARK S	540 WETHERELL ST	MANCHESTER	CT	06040	598000540	540 WETHERELL ST
PRASSER, GEORGE R JR	528 WETHERELL ST	MANCHESTER	CT	06040-6351	598000528	528 WETHERELL ST
FIRST BAPTIST CHURCH OF MANCHESTER	240 HILLSTOWN RD	MANCHESTER	CT	06040	295000240	240 HILLSTOWN RD
CYR, DANIEL D	458 WETHERELL ST	MANCHESTER	CT	06040	598000458	458 WETHERELL ST
RETTBURG, GRACE	522 WETHERELL ST	MANCHESTER	CT	06040	598000522	522 WETHERELL ST
MADORE, SHARON R	514 WETHERELL ST	MANCHESTER	CT	06040-6351	598000514	514 WETHERELL ST
MILLER, CHANTEE	506 WETHERELL ST	MANCHESTER	CT	06040	598000506	506 WETHERELL ST
BLANCHARD, ROBERT F	37 PONDVIEW DR	MANCHESTER	CT	06040	295000287	287 HILLSTOWN RD
CHAMP, CAROL L	468 WETHERELL ST	MANCHESTER	CT	06040	598000468	468 WETHERELL ST
LUMPKIN, KAREN D	494 WETHERELL ST	MANCHESTER	CT	06040	598000494	494 WETHERELL ST
BRUNO, STEPHEN D	476 WETHERELL ST	MANCHESTER	CT	06040-6346	598000476	476 WETHERELL ST
MANAGER, THOMAS	484 WETHERELL ST	MANCHESTER	CT	06040-6346	598000484	484 WETHERELL ST
STATE OF CONNECTICUT	165 CAPITOL AVE -DPW	HARTFORD	CT	06106	598000411	411 WETHERELL ST
CANNON, DOROTHY C	215 HILLSTOWN RD	MANCHESTER	CT	06040	295000215	215 HILLSTOWN RD
TOWN OF MANCHESTER	41 CENTER ST	MANCHESTER	CT	06040-5096	295000237	237 HILLSTOWN RD
BOTTICELLO PROPERTIES LLC	209 HILLSTOWN RD	MANCHESTER	CT	06040-6309	295000224	224 HILLSTOWN RD
BOTTICELLO, HENRY L EST	103 LEVITA RD	LEBANON	CT	06249	295000209	209 HILLSTOWN RD
BOTTICELLO, HENRY L	209 HILLSTOWN RD	MANCHESTER	CT	06040	295000195	195 HILLSTOWN RD
SCHAUB, DIANE M	188 HILLSTOWN RD	MANCHESTER	CT	06040	295000188	188 HILLSTOWN RD
STRINGFELLOW, THOMAS L	183 HILLSTOWN RD	MANCHESTER	CT	06040-6308	295000183	183 HILLSTOWN RD
CONNECTICUT LIGHT & POWER CO	PO BOX 270	HARTFORD	CT	06141-0270	598000409	409 WETHERELL ST
TOWN OF MANCHESTER	41 CENTER ST	MANCHESTER	CT	06040	295000156	156 HILLSTOWN RD
CONNECTICUT LIGHT & POWER COMPANY	PO BOX 270	HARTFORD	CT	06141-0270	47000134	134 BIDWELL ST
TOWN OF MANCHESTER	41 CENTER ST	MANCHESTER	CT	06040-5096	295000180	180 HILLSTOWN RD
THE ANDREW ANSALDI COMPANY	186 BIDWELL ST	MANCHESTER	CT	06040-6412	47000186	186 BIDWELL ST
CONNECTICUT LIGHT & POWER COMPANY	PO BOX 270	HARTFORD	CT	06141-0270	47000133	133 BIDWELL ST
TOWN OF MANCHESTER	41 CENTER ST	MANCHESTER	CT	06040	295000130	130 HILLSTOWN RD
THE ANDREW ANSALDI COMPANY	186 BIDWELL ST	MANCHESTER	CT	06040-6412	47000101	101 BIDWELL ST
STATE OF CONNECTICUT COMMUNITY COLLEGE	165 CAPITOL AVE UNIT DPW	HARTFORD	CT	06106	47000060	60 BIDWELL ST
MENDEZ, ALDRED	66 WILFRED RD	MANCHESTER	CT	06040-4719	602000066	66 WILFRED RD
BEGUM, HOSNE A	352 HACKMATAACK ST	MANCHESTER	CT	06040	602000068	68 WILFRED RD
ALAM, SHAFI	68-70 WILFRED RD	MANCHESTER	CT	06040	602000070	70 WILFRED RD
BAIDOO, PETER BOTSE	116 H JEFFERSON AVE	CLEARWATER	FL	33755	602000074	74 WILFRED RD
THOMAS, MILLICENT	76 WILFRED RD	MANCHESTER	CT	06040	602000076	76 WILFRED RD
IDRISSOU, MOUSTAPHA	80 WILFRED RD	MANCHESTER	CT	06040	602000080	80 WILFRED RD
ELAMIN, WINSOME	66 WILFRED RD	MANCHESTER	CT	06040	602000064	64 WILFRED RD
CHOWDHURY, SHAHIDUL A	31 WILFRED RD	MANCHESTER	CT	06040	602000062	62 WILFRED RD
D'CRUZE, MARY	60 WILFRED RD	MANCHESTER	CT	06040	602000060	60 WILFRED RD
ALI, SYED MOHAMMAD	58 WILFRED RD	MANCHESTER	CT	06040	602000058	58 WILFRED RD
ANDRUSIS, NANCY	34 BIDWELL ST	MANCHESTER	CT	06040	47000034	34 BIDWELL ST
CROSSROADS COMMUNITY CATHEDRAL	1492 SILVER LN	EAST HARTFORD	CT	06118	519000206	206 SPENCER ST
KUPPURAJ, HARIHARAN	77 CHAPONIS WAY	SOUTH WINDSOR	CT	06074	47000030	30 BIDWELL ST
CONNECTICUT LIGHT & POWER CO	PO BOX 270	HARTFORD	CT	06141-0270	271000750	750 HARTFORD RD
MCG MANCHESTER LLC	59 FIELD ST UNIT 108	TORRINGTON	CT	06790	519000130R	130R SPENCER ST
BASSER-KAUFMAN 216 LLC	151 IRVING PL C/O BASSER-KAUFMAN	WOODMERE	NY	11598	519000210	210 SPENCER ST
RM19 HOLDINGS LLC	3949 FOREST PKWY UNIT 100	WHEATFIELD	NY	14120	519000140	140 SPENCER ST
RAHF SQUIRE PRESERVATION LLC	551 FIFTH AVE 23RD FLR	NEW YORK	NY	10176	519000048	48 SPENCER ST

**ABUTTERS LIST**

SCALE: N.T.S.


1  
C-2

INFORMATION SHOWN HEREON IS BASED ON EXISTING INFORMATION OBTAINED FROM TAX MAPS, MUNICIPAL GIS WEBSITE, & AERIAL IMAGERY. THE INFORMATION SHOWN IS NOT A RIGHT OF WAY OR BOUNDARY SURVEY AND DOES NOT SATISFY THE REQUIREMENTS FOR A BOUNDARY SURVEY. A SITE SURVEY WAS NOT PERFORMED BY HUDSON DESIGN GROUP, LLC

APPROXIMATE COORDINATES: LAT: 41.760289° N LONG: 72.560078° W



500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067



750 WEST CENTER STREET,  
SUITE # 301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE  
N. ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586



Daniel P. Hamm  
No. 24178  
LICENSED PROFESSIONAL ENGINEER

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
3	05/04/22	ISSUED FOR PERMITTING	SG
2	12/21/21	ISSUED FOR PERMITTING	MR
1	12/10/20	ISSUED FOR PERMITTING	MR
A	05/26/20	ISSUED FOR REVIEW	MR

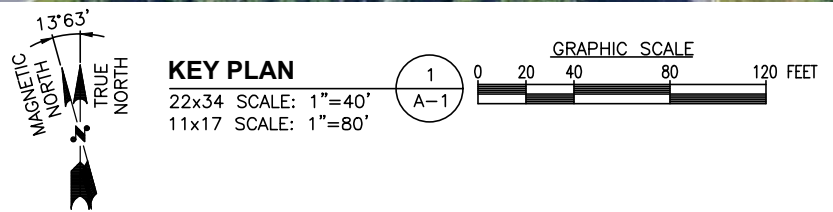
CLUSTER AND NODE NUMBER:  
CRAN\_RCTB\_MANC\_003

SITE ID:  
CRAN\_RCTB\_MANC\_003

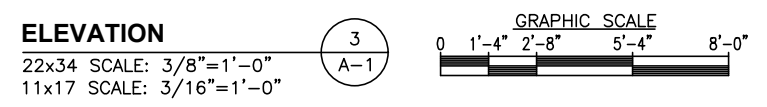
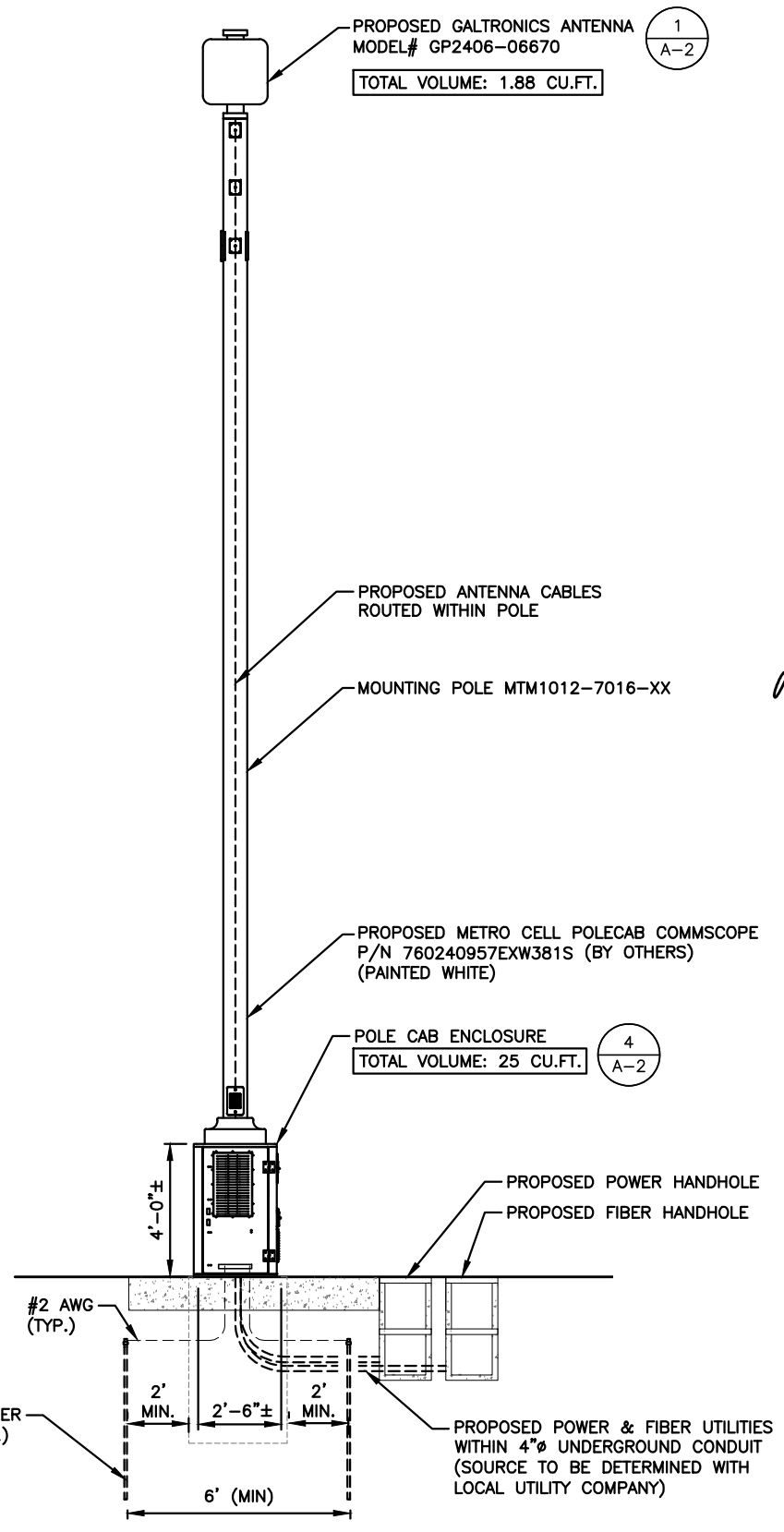
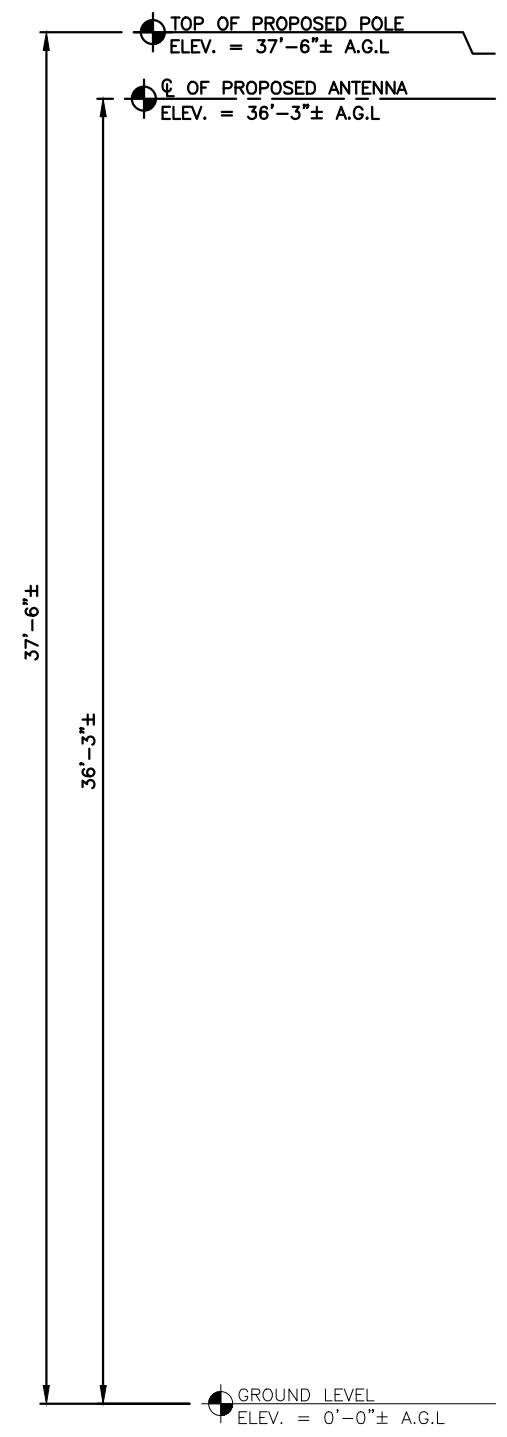
SITE ADDRESS:  
50 BIDWELL ST. - RAMEY DR  
MANCHESTER, CT 06040  
HARTFORD COUNTY

SHEET TITLE  
KEY PLAN AND ELEVATION

SHEET NUMBER  
**A-1**



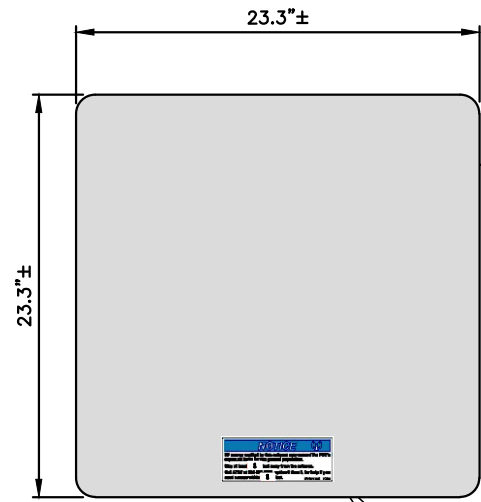
**EXISTING CONDITIONS PHOTO DETAIL**  
SCALE: N.T.S.



PARTIES MUST PRIORITIZE LAYING CONDUIT WHENEVER INSTALLING FIBER FOR PERSONAL WIRELESS SERVICE FACILITIES AND SMALL WIRELESS FACILITIES. IF A PARTY HAS A REASON TO NOT UTILIZE CONDUIT FOR AN INSTALLATION, THEY MUST PROVIDE THE 5G COUNCIL WITH AN ADEQUATE ENGINEERING EXPLANATION.

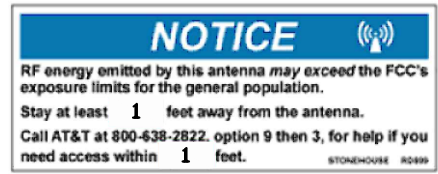
**NOTE:**

1. THE WIRELESS COMMUNICATIONS OPERATOR IS RESPONSIBLE FOR PLACING A WARNING SIGN ON THE POWER SUPPLY COMMUNICATING THE RF EMISSIONS IN COMPLIANCE WITH THE CURRENT EDITION OF IEEE STANDARD C95.2. THIS SIGN MUST ALSO HAVE A 24-HOUR CONTACT PHONE NUMBER IN CASE OF EMERGENCY. THIS NUMBER MUST BE VISIBLE FROM THE GROUND.



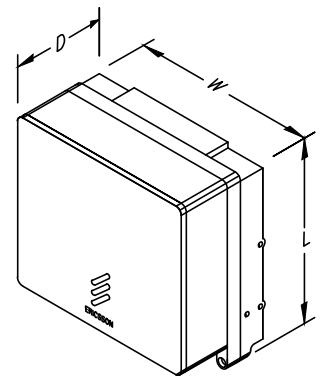
PROPOSED GALTRONICS ANTENNA  
 MODEL# GP2406-06670  
 DIMENSIONS: H23.3"W23.3"D6.0"  
 WEIGHT: 26.5 LBS.  
**TOTAL VOLUME: 1.88 CU.FT.**

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.



STONEHOUSE SIGNS INC. P/N RD899  
 SIGN DIMENSIONS 2.5"x6.5"  
 TWO NOTICE STICKERS MUST BE PLACED OPPOSITE EACH OTHER ON THE ANTENNA

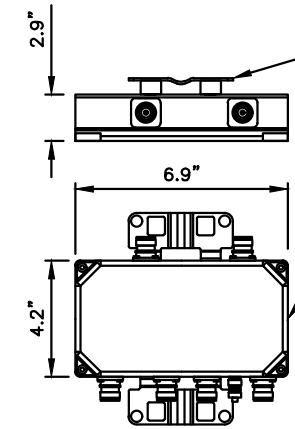
**ANTENNA DETAIL**  
 SCALE: N.T.S.



MODEL	QTY.	L	W	D	WGT.
8843	1	18.1"	13.4"	8.3"	72 LBS
4449	1	8.0"	8.0"	4.0"	11 LBS

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**RRH DETAIL**  
 SCALE: N.T.S.

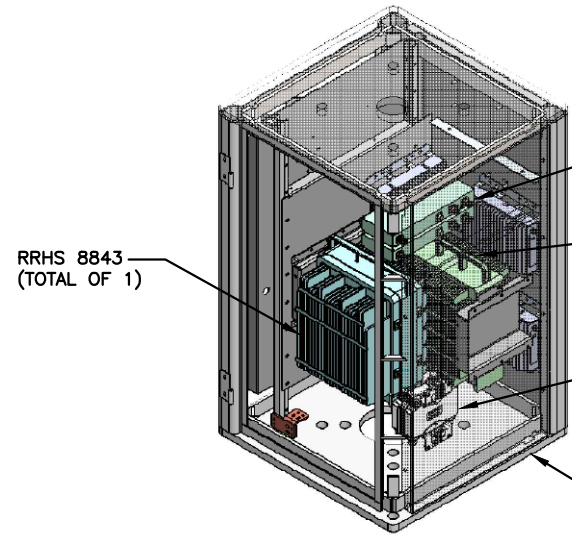


PROPOSED DIPLEXER MOUNTING BRACKET

PROPOSED DIPLEXER COMMSCOPE MODEL #SDX1926Q-43  
 DIMENSIONS: H4.2"W6.9"D2.9"  
 WEIGHT: 6.2 LBS.

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**DIPLEXER DETAIL (AS REQUIRED)**  
 SCALE: N.T.S.

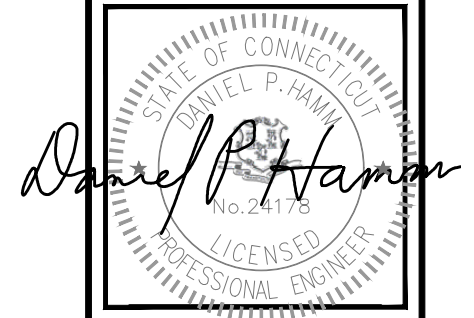
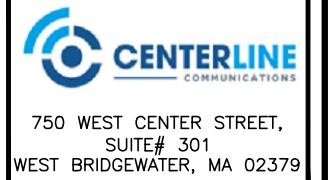


CCI TRIPLEXERS, P/N. TPO-691973-S-T2 (TOTAL OF 2)  
 RRHS 4449 (TOTAL OF 1)  
 TWIN DIPLEXERS P/N. SDX1926Q-43 (TOTAL OF 1)  
 POLE CAB ENCLOSURE COMMSCOPE P/N: PC30 ERC 449+8843 LAYOUT-02  
**TOTAL VOLUME: 25 CU.FT.**

RRHS 8843 (TOTAL OF 1)

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**EQUIPMENT CABINET DETAIL**  
 SCALE: N.T.S.



CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
3	05/04/22	ISSUED FOR PERMITTING	SG
2	12/21/21	ISSUED FOR PERMITTING	MR
1	12/10/20	ISSUED FOR PERMITTING	MR
A	05/26/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:  
 CRAN\_RCTB\_MANC\_003  
 SITE ID:  
 CRAN\_RCTB\_MANC\_003  
 SITE ADDRESS:  
 50 BIDWELL ST. - RAMEY DR  
 MANCHESTER, CT 06040  
 HARTFORD COUNTY

SHEET TITLE  
 EQUIPMENT DETAILS

SHEET NUMBER  
**A-2**



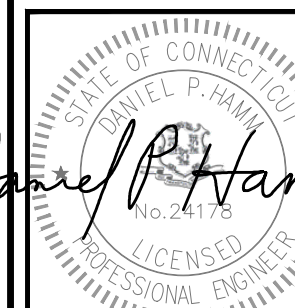
500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067



750 WEST CENTER STREET,  
SUITE # 301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE  
N. ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586



CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
3	05/04/22	ISSUED FOR PERMITTING	SG
2	12/21/21	ISSUED FOR PERMITTING	MR
1	12/10/20	ISSUED FOR PERMITTING	MR
A	05/26/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:

CRAN\_RCTB\_MANC\_003

SITE ID:

CRAN\_RCTB\_MANC\_003

SITE ADDRESS:

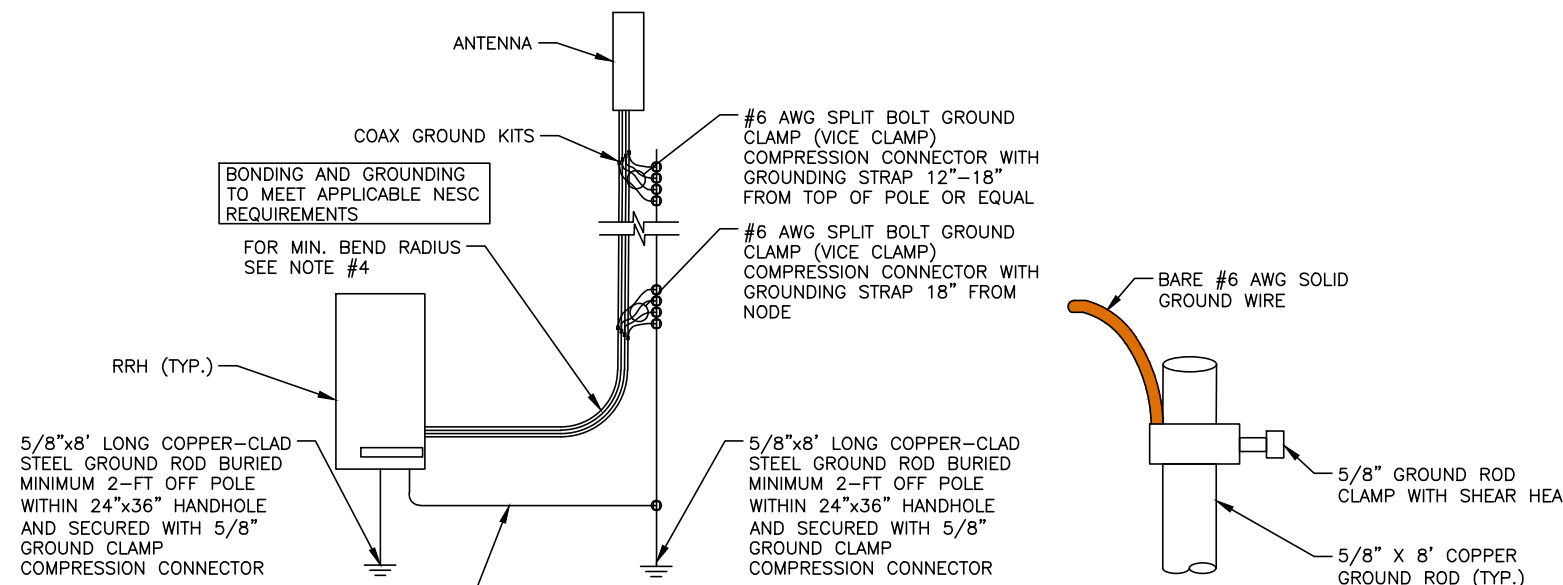
50 BIDWELL ST. - RAMEY DR  
MANCHESTER, CT 06040  
HARTFORD COUNTY

SHEET TITLE

ELECTRICAL &  
GROUNDING DETAILS

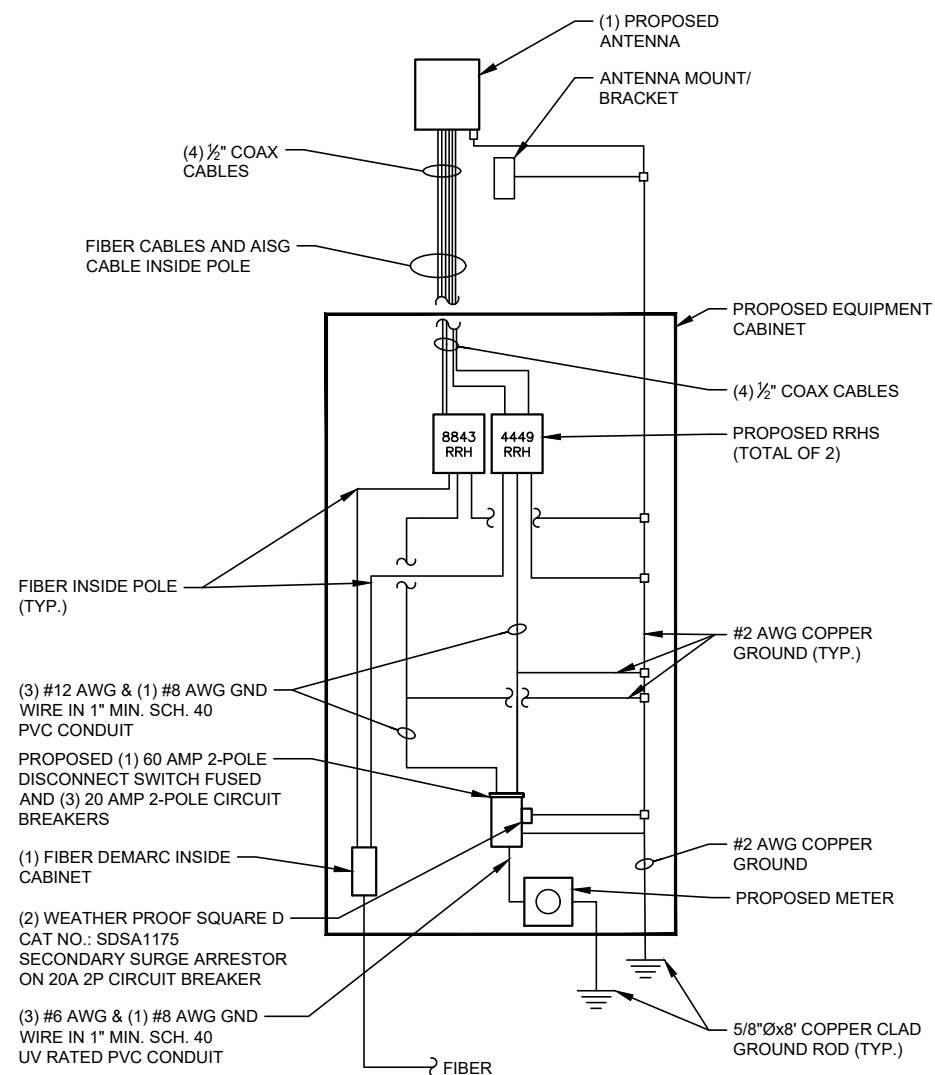
SHEET NUMBER

E-1

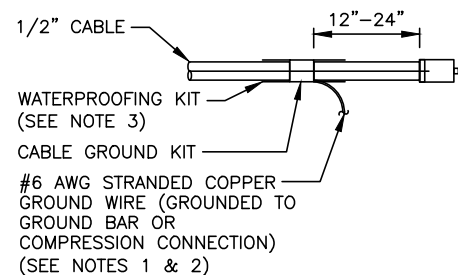


**GROUNDING ONE LINE DIAGRAM** 2  
SCALE: N.T.S. E-1

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

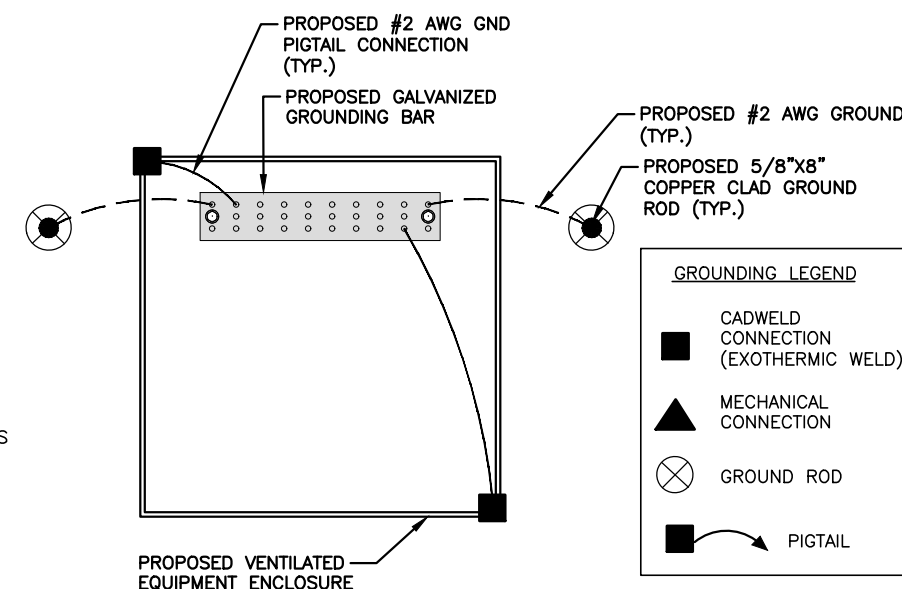


**GENERAL WIRING DIAGRAM** 1  
SCALE: N.T.S. E-1



- 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.
  - MINIMUM BEND RADIUS OF A CONDUCTOR SHALL NOT BE BENT TO LESS THAN 12 TIMES OVERALL CONDUCTOR DIAMETER.

**ANTENNA CABLE GROUND KIT** 4  
SCALE: N.T.S. E-1



**GROUNDING LEGEND**

■	CADWELD CONNECTION (EXOTHERMIC WELD)
▲	MECHANICAL CONNECTION
⊗	GROUND ROD
■	PIGTAIL

**PROPOSED EQUIPMENT ENCLOSURE GROUNDING DETAIL** 6  
SCALE: N.T.S. E-1

## **Attachment 3**

# STRUCTURAL ANALYSIS REPORT

For

## CRAN\_RCTB\_MANC\_003

60 Bidwell Street  
Manchester, CT 06040

### Equipment Mounted on Proposed Light Pole



Prepared for:



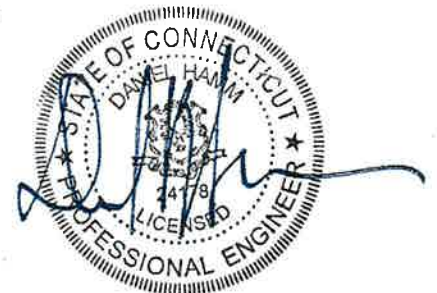
Dated: December 14, 2020

Prepared by:



45 Beechwood Drive  
North Andover, MA 01845  
Phone: (978) 557-5553

[www.hudsondesigngroupllc.com](http://www.hudsondesigngroupllc.com)







**SCOPE OF WORK:**

Hudson Design Group LLC (HDG) has been authorized by AT&T to conduct a structural evaluation of the proposed light pole supporting the proposed AT&T equipment.

This report represents this office's findings, conclusions and recommendations pertaining to the support of the proposed AT&T equipment listed below.

This office conducted an on-site visual survey of the above areas on May 21, 2020. Attendees included Patrick Barrett (HDG – Field Technician).

**CONCLUSION SUMMARY:**

Based on our evaluation, we have determined that the proposed pole **is in conformance** with the National Electric Safety Code 2017 (NESC). The proposed light pole structure is rated at 3.0%.

**APPURTENANCES CONFIGURATION:**

Appurtenances	Elev.	Mount
(1) GQ2410-06670 Antenna	29'-3"	Top of Light Pole
(1) Load Center	3'-6"	Equipment Enclosure
(1) Main Disconnect	3'-6"	Equipment Enclosure
(1) CBC1923Q-43 Diplexers	3'-0"	Equipment Enclosure
(1) 8843B2/B66A RRH	2'-4"	Equipment Enclosure
(1) 4449 RRH	2'-4"	Equipment Enclosure
(1) Power Meter	2'-0"	Equipment Enclosure

**ANALYSIS RESULTS SUMMARY:**

Component	Max. Stress Ratio	Elev. of Component (ft.)	Pass/Fail
8.0" Light Pole (Proposed)	3.0%	0 – 27.8	PASS



**DESIGN CRITERIA:**

<b>National Electric Safety Code 2017 (NESC) and the 2018 Connecticut State Building Code Amendments</b>		
<b>Wind</b>		
City/Town:	Manchester	
County:	Hartford	
NESC Rule	Rule 250B	NESC Section 25
Construction Grade	C	NESC Section 25
Wind Load:	39.53 mph	NESC Table 230-2
<b>Ice</b>		
Loading District	Heavy	NESC Figure 250-1
Radial Ice Thickness:	0.50 in	NESC Table 250-1

1. Approximate height above grade to center of the proposed antenna: 29'-3" +/-

**\*Calculations and referenced documents are attached.**



**HUDSON**  
Design Group LLC

### **PROPOSED STRUCTURE:**

The proposed 27'- 10" +/- light pole is assumed to have an 8.0" diameter installed on a 2'-6"x4'-0" tall square equipment enclosure base. If field conditions differ from what is assumed in this report, then the engineer of record is to be notified as soon as possible.

### **ANTENNA SUPPORT RECOMMENDATIONS**

The new antenna is proposed to be installed on a top mount kit secured to the new light pole using thru bolts.

### **EQUIPMENT SUPPORT RECOMMENDATIONS:**

The new equipment is proposed to be installed within the new equipment enclosure base with unistrut components.

#### Limitations and assumptions:

1. Reference the latest HDG construction drawings for all the equipment locations details.
2. Mount all equipment per manufacturer's specifications.
3. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities. Contractor to perform pre-inspection prior to construction.
4. All antennas and waveguide cables are assumed to be properly installed and supported as per the manufacturer requirements.
5. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
6. If field conditions differ from what is assumed in this report, then the engineer of record is to be notified as soon as possible.
7. HDG did not perform any geotechnical analysis / or / investigation. Soil Information is unknown.

**FIELD PHOTOS:**



**Photo 1:** Sample photo illustrating the existing light pole (to be removed and replaced).



**HUDSON**  
Design Group LLC

## Calculations

Date: 12/11/2020  
 Project Name: CRAN\_RCTB\_MANC\_003  
 Designed By: RL Checked By: MSC



**HUDSON**  
 Design Group LLC

**2.6.5.2 Velocity Pressure Coeff:**

$$K_z = 2.01 (z/z_g)^{2/\alpha}$$

$z = 29.25$  (ft)  
 $z_g = 900$  (ft)  
 $\alpha = 9.5$

**$K_z = 0.977$**

$K_{zmin} \leq K_z \leq 2.01$

**Table 2-4**

Exposure	$Z_g$	$\alpha$	$K_{zmin}$	$K_e$
B	1200 ft	7.0	0.70	0.9
C	900 ft	9.5	0.85	1.0
D	700 ft	11.5	1.03	1.1

**2.6.6.4 Topographic Factor:**

**Table 2-5**

Topo. Category	$K_t$	f
2	0.43	1.25
3	0.53	2.0
4	0.72	1.5

$$K_{zt} = [1 + (K_e K_t / K_h)]^2$$

$$K_h = e^{-(f \cdot z / H)}$$

**$K_{zt} = 1$**

$K_h = 1$   
 $K_e = 1.0$  (from Table 2-4)  
 $K_t =$  (from Table 2-5)  
 $f =$  (from Table 2-5)  
 $z = 29.25$   
 $H =$  (Ht. of the crest above surrounding terrain)  
 $K_{zt} = 1.00$   
 $K_{iz} = 0.99$  (from Sec. 2.6.8)

*(If Category 1 then  $K_{zt} = 1.0$ )*

**Category = 1**

**2.6.8 Design Ice Thickness**

Max Ice Thickness =  $t_i = 0.50$  in

Importance Factor,  $I_{ice} = 1.00$  (from Table 2-3)

$t_{iz} = 2.0 \cdot t_i \cdot I_{ice} \cdot K_{iz} \cdot (K_z t)^{0.35}$   $t_{iz} = 0.99$  in

Date: 12/11/2020  
 Project Name: CRAN\_RCTB\_MANC\_003  
 Designed By: RL Checked By: MSC



**2.6.7 Gust Effect Factor**

2.6.7.1 Self Supporting Lattice Structures

Gh = 1.0 Latticed Structures > 600 ft

Gh = 0.85 Latticed Structures 450 ft or less

Gh = 0.85 + 0.15 [h/150 - 3.0] h= ht. of structure

h= 28 Gh= 0.85

2.6.7.2 Guyed Masts Gh= 0.85

2.6.7.3 Pole Structures Gh= 1.1

2.6.9 Appurtenances Gh= 1.0

2.6.7.4 Structures Supported on Other Structures

(Cantilivered tubular or latticed spines, pole, structures on buildings (ht. : width ratio > 5)

Gh= 1.35 Gh= 1.00

**2.6.9.2 Design Wind Force on Appurtenances**

$F = q_z * Gh * (EPA)_A$

$q_z = 0.00256 * K_z * K_{zt} * K_d * V_{max}^2 * I$

q<sub>z</sub>= 3.71  
 q<sub>z (ice)</sub>= 2.14

K<sub>z</sub>= 0.977  
 K<sub>zt</sub>= 1.0  
 K<sub>d</sub>= 0.95 (from Table 2-2)  
 V<sub>max</sub>= 39.53  
 V<sub>max (ice)</sub>= 30  
 I= 1.0 (from Table 2-3)  
 I<sub>wice</sub>= 1.0 (from Table 2-3)

**Table 2-2**

Structure Type	Wind Direction Probability Factor, Kd
Latticed structures with triangular, square or rectangular cross sections	0.85
Tubular pole structures, latticed structures with other cross sections, appurtenances	0.95

**Determine Ca:**

**Table 2-8**

Force Coefficients (Ca) for Appurtenances				
Member Type		Aspect Ratio ≤ 2.5	Aspect Ratio = 7	Aspect Ratio ≥ 25
		Ca	Ca	Ca
Flat		1.2	1.4	2.0
Round	C < 32 (Subcritical)	0.7	0.8	1.2
	32 ≤ C ≤ 64 (Transitional)	$3.76/(C^{0.485})$	$3.37/(C^{0.415})$	$38.4/(C^{1.0})$
	C > 64 (Supercritical)	0.5	0.6	0.6

Aspect Ratio is the overall length/width ratio in the plane normal to the wind direction.  
 (Aspect ratio is independent of the spacing between support points of a linear appurtenance, and the section length considered to have uniform wind load).

Note: Linear interpolation may be used for aspect ratios other than those shown.

Ice Thickness = **0.99 in**

<u>Appurtenances</u>	<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Flat Area</u>	<u>Aspect Ratio</u>	<u>Ca</u>	<u>Force (lbs)</u>	<u>Force (lbs) (w/ice)</u>
GQ2410-06670 Antenna	23.3	23.3	6.0	3.77	1.00	1.20	17	11
GQ2410-06670 Antenna (Side)	23.3	6.0	23.3	0.97	3.88	1.26	5	4
8" Light Pole	8.6	12.0	-	0.72	0.72	1.20	3	



**Date:** 12/11/2020  
**Project Name:** CRAN\_RCTB\_MANC\_003  
**Designed By:** RL      **Checked By:** MSC



## Wind Analysis → Equipment Enclosure

### Reference Codes:

-National Electric Safety Code 2017 (NESC 2017)

-Minimum Design Loads for Buildings and Other Structures (ASCE 7-10)

Structure Classification	II	(ASCE 7-10 Table 1.5-1)
Basic Wind Speed, V	39.53 mph	(ASCE 7-10 Table 1.5-1)
Importance Factor, I	1	(ASCE 7-10 Table 1.5-2)
Exposure Category	C	(ASCE 7-10 Section 26.7)
Height Above Ground Level, z	4 ft	(Top of Enclosure)
Exposure Coefficient, $K_z$	0.85	(ASCE 7-10 Table 29-3.1)
Wind Directionality Coef., $K_d$	0.90	(ASCE 7-10 Table 26.6-1)
Topographic Factor, $K_{zt}$	1.00	(ASCE 7-10 Section 26.8.2)
<b>Velocity Pressure, <math>q_z</math></b>	$= 0.00256K_zK_{zt}K_dV^2$ $= \mathbf{3.06 \text{ psf}}$	(ASCE 7-10 Equation 29.3-1)
Gust Factor, G	1.00	(ASCE 7-10 Section 26.9)
Enclosure Shape:	Square	
Net Force Coefficient, $C_f$	1.90	(ASCE 7-10 Figure 29.5-1)
<b>Area Wind Force, F</b>	$= q_zGC_f$ $= \mathbf{5.81 \text{ psf}}$	(ASCE 7-10 Equation 29.5-2)

Date: 12/14/2020

Project Name: CRAN\_RCTB\_MANC\_003

Designed By: RL      Checked By: MSC



**HUDSON**  
Design Group LLC

### ICE WEIGHT CALCULATIONS

Thickness of ice: 0.99 in.

Density of ice: 56 pcf

#### GQ2410-06670 Antenna

Weight of ice based on total radial SF area:

Height (in): 23.3

Width (in): 23.3

Depth (in): 6.0

Total weight of ice on object: 59 lbs

Weight of object: 26.0 lbs

Combined weight of ice and object: 85 lbs

#### 8" Light Pole

Per foot weight of ice:

diameter (in): 8.63

Per foot weight of ice on object: 12 plf

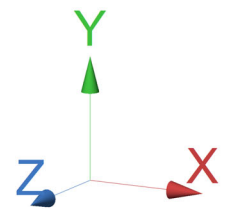
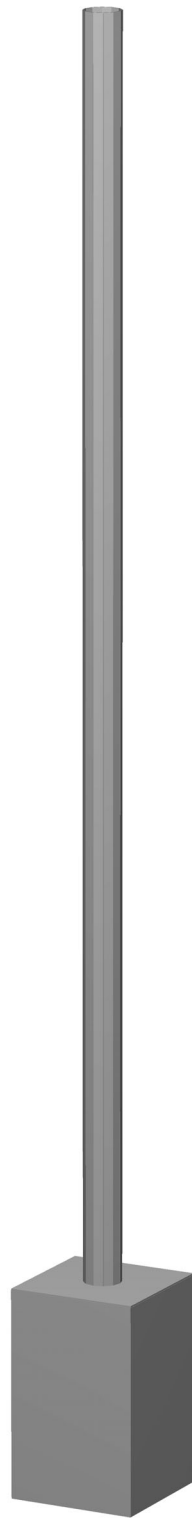
#### Pole Cab Enclosure

Weight of ice based on total radial SF area:

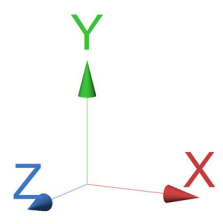
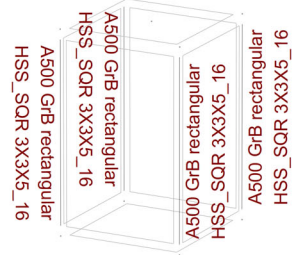
Height (in): 12

Width (in): 12

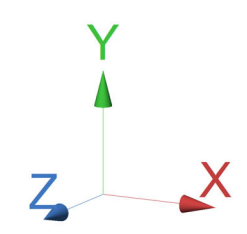
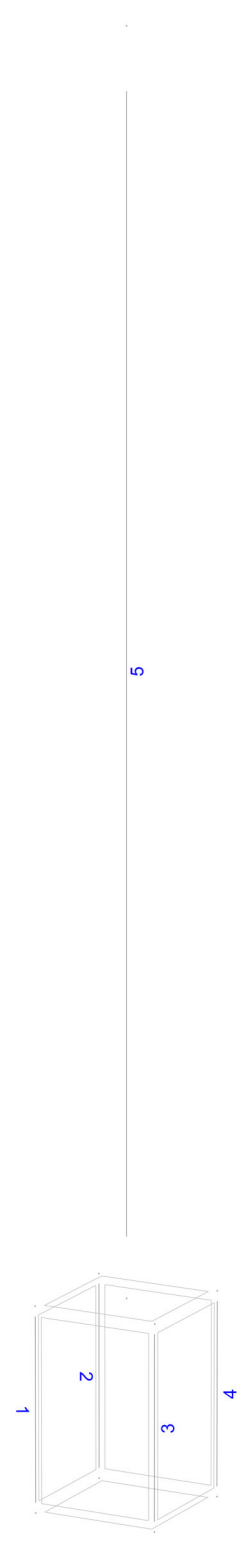
Per foot weight of ice on object: 22 plf



A53 GrB  
PIPE 8x0.322







Current Date: 12/14/2020 9:34 AM

Units system: English

File name: W:\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\RAM Elements\RAM Projects\AT&T\CT\CT\_Small Cell\CRAN\_RCTB\_MANC\_003\CRAN\_RCTB\_MANC\_003.retx

## Load data

### GLOSSARY

Comb : Indicates if load condition is a load combination

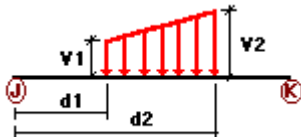
### Load Conditions

Condition	Description	Comb.	Category
DL	Dead Load	No	DL
WL1	Wind Load (Side 1)	No	WIND
WL2	Wind Load (Side 2)	No	WIND
WL3	Wind Load (Side 3)	No	WIND
WL4	Wind Load (Side 4)	No	WIND
DI	Ice Load	No	LL

### Load on nodes

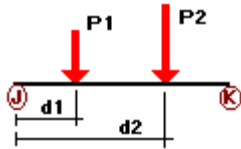
Condition	Node	FX [Kip]	FY [Kip]	FZ [Kip]	MX [Kip*ft]	MY [Kip*ft]	MZ [Kip*ft]
WL1	11	0.00	0.00	0.00	-0.024	0.00	0.00
WL2	11	0.00	0.00	0.00	0.00	0.00	0.006
WL3	11	0.00	0.00	0.00	0.024	0.00	0.00
WL4	11	0.00	0.00	0.00	0.00	0.00	-0.006

### Distributed force on members



Condition	Member	Dir1	Val1 [Kip/ft]	Val2 [Kip/ft]	Dist1 [ft]	%	Dist2 [ft]	%
WL1	5	z	-0.003	-0.003	0.00	No	100.00	Yes
WL2	5	x	-0.003	-0.003	0.00	No	100.00	Yes
WL3	5	z	0.003	0.003	0.00	No	100.00	Yes
WL4	5	x	0.003	0.003	0.00	No	100.00	Yes
DI	5	y	-0.012	-0.012	0.00	No	100.00	Yes

### Concentrated forces on members



Condition	Member	Dir1	Value1 [Kip]	Dist1 [ft]	%
DL	5	y	-0.026	0.00	No
WL1	5	z	-0.017	0.00	No
WL2	5	x	-0.005	0.00	No
WL3	5	z	0.017	0.00	No
WL4	5	x	0.005	0.00	No
DI	5	y	-0.059	0.00	No

### Load on shells

Condition	Shell	Pressure [Kip/ft2]	Temp. [F]
WL1	3	-0.006	0.00
WL2	4	-0.006	0.00
WL3	5	-0.006	0.00
WL4	6	-0.006	0.00
DI	2	-0.022	0.00

### Self weight multipliers for load conditions

Condition	Description	Self weight multiplier			
		Comb.	MultX	MultY	MultZ
DL	Dead Load	No	0.00	-1.00	0.00
WL1	Wind Load (Side 1)	No	0.00	0.00	0.00
WL2	Wind Load (Side 2)	No	0.00	0.00	0.00
WL3	Wind Load (Side 3)	No	0.00	0.00	0.00
WL4	Wind Load (Side 4)	No	0.00	0.00	0.00
DI	Ice Load	No	0.00	0.00	0.00

### Earthquake (Dynamic analysis only)

Condition	a/g	Ang. [Deg]	Damp. [%]
DL	0.00	0.00	0.00
WL1	0.00	0.00	0.00
WL2	0.00	0.00	0.00
WL3	0.00	0.00	0.00
WL4	0.00	0.00	0.00
DI	0.00	0.00	0.00





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## Steel Code Check

Report: Summary - Group by member

### Load conditions to be included in design :

- LC1=1.4DL
- LC2=1.2DL+1.6DI
- LC3=1.2DL+0.5WL1
- LC4=1.2DL+0.5WL2
- LC5=1.2DL+0.5WL3
- LC6=1.2DL+0.5WL4
- LC7=1.2DL+WL1
- LC8=1.2DL+WL2
- LC9=1.2DL+WL3
- LC10=1.2DL+WL4
- LC11=1.2DL+WL1+DI
- LC12=1.2DL+WL2+DI
- LC13=1.2DL+WL3+DI
- LC14=1.2DL+WL4+DI
- LC15=0.9DL+WL1
- LC16=0.9DL+WL2
- LC17=0.9DL+WL3
- LC18=0.9DL+WL4

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	<i>HSS_SQR 3X3X5_16</i>	1	LC11 at 100.00%	0.01	OK	
		2	LC13 at 100.00%	<b>0.01</b>	<b>OK</b>	
		3	LC11 at 100.00%	0.01	OK	
		4	LC13 at 100.00%	0.01	OK	
	<i>PIPE 8x0.322</i>	5	LC11 at 100.00%	<b>0.03</b>	<b>OK</b>	



Current Date: 12/14/2020 9:35 AM

Units system: English

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## Geometry data

### GLOSSARY

- Cb22, Cb33 : Moment gradient coefficients
- Cm22, Cm33 : Coefficients applied to bending term in interaction formula
- d0 : Tapered member section depth at J end of member
- DJX : Rigid end offset distance measured from J node in axis X
- DJY : Rigid end offset distance measured from J node in axis Y
- DJZ : Rigid end offset distance measured from J node in axis Z
- DKX : Rigid end offset distance measured from K node in axis X
- DKY : Rigid end offset distance measured from K node in axis Y
- DKZ : Rigid end offset distance measured from K node in axis Z
- dL : Tapered member section depth at K end of member
- Ig factor : Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
- K22 : Effective length factor about axis 2
- K33 : Effective length factor about axis 3
- L22 : Member length for calculation of axial capacity
- L33 : Member length for calculation of axial capacity
- LB pos : Lateral unbraced length of the compression flange in the positive side of local axis 2
- LB neg : Lateral unbraced length of the compression flange in the negative side of local axis 2
- RX : Rotation about X
- RY : Rotation about Y
- RZ : Rotation about Z
- TO : 1 = Tension only member 0 = Normal member
- TX : Translation in X
- TY : Translation in Y
- TZ : Translation in Z

### Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
2	-1.25	0.00	1.25	0
3	1.25	0.00	1.25	0
4	-1.25	0.00	-1.25	0
5	1.25	0.00	-1.25	0
6	-1.25	4.00	1.25	0
7	1.25	4.00	1.25	0
8	-1.25	4.00	-1.25	0
9	1.25	4.00	-1.25	0
10	0.00	4.00	0.00	0
11	0.00	27.8333	0.00	0

### Restraints

Node	TX	TY	TZ	RX	RY	RZ
2	1	1	1	0	0	0
3	1	1	1	0	0	0
4	1	1	1	0	0	0
5	1	1	1	0	0	0

## Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
1	2	6		HSS_SQR 3X3X5_16	A500 GrB rectangular	0.00	0.00	0.00
2	4	8		HSS_SQR 3X3X5_16	A500 GrB rectangular	0.00	0.00	0.00
3	3	7		HSS_SQR 3X3X5_16	A500 GrB rectangular	0.00	0.00	0.00
4	5	9		HSS_SQR 3X3X5_16	A500 GrB rectangular	0.00	0.00	0.00
5	11	10		PIPE 8x0.322	A53 GrB	0.00	0.00	0.00

## Rigid end offsets

Member	DJX [in]	DJY [in]	DJZ [in]	DKX [in]	DKY [in]	DKZ [in]
1	1.50	0.00	-1.50	1.50	0.00	-1.50
2	1.50	0.00	1.50	1.50	0.00	1.50
3	-1.50	0.00	-1.50	-1.50	0.00	-1.50
4	-1.50	0.00	1.50	-1.50	0.00	1.50

## Shells

Shell	Description	Material	Thickness [in]	Center of gravity [ft]	Area [ft <sup>2</sup> ]	N1, N2, ..., Nn
1		A36 (weightless)	0.75	(0.00, 0.00, 0.00)	6.25	2, 3, 5, 4
2		A36 (weightless)	0.75	(0.00, 4.00, 0.00)	6.25	6, 7, 9, 8
3		A36 (weightless)	0.13	(0.00, 2.00, 1.25)	10.00	3, 7, 6, 2
4		A36 (weightless)	0.13	(1.25, 2.00, 0.00)	10.00	5, 9, 7, 3
5		A36 (weightless)	0.13	(0.00, 2.00, -1.25)	10.00	4, 8, 9, 5
6		A36 (weightless)	0.13	(-1.25, 2.00, 0.00)	10.00	2, 6, 8, 4

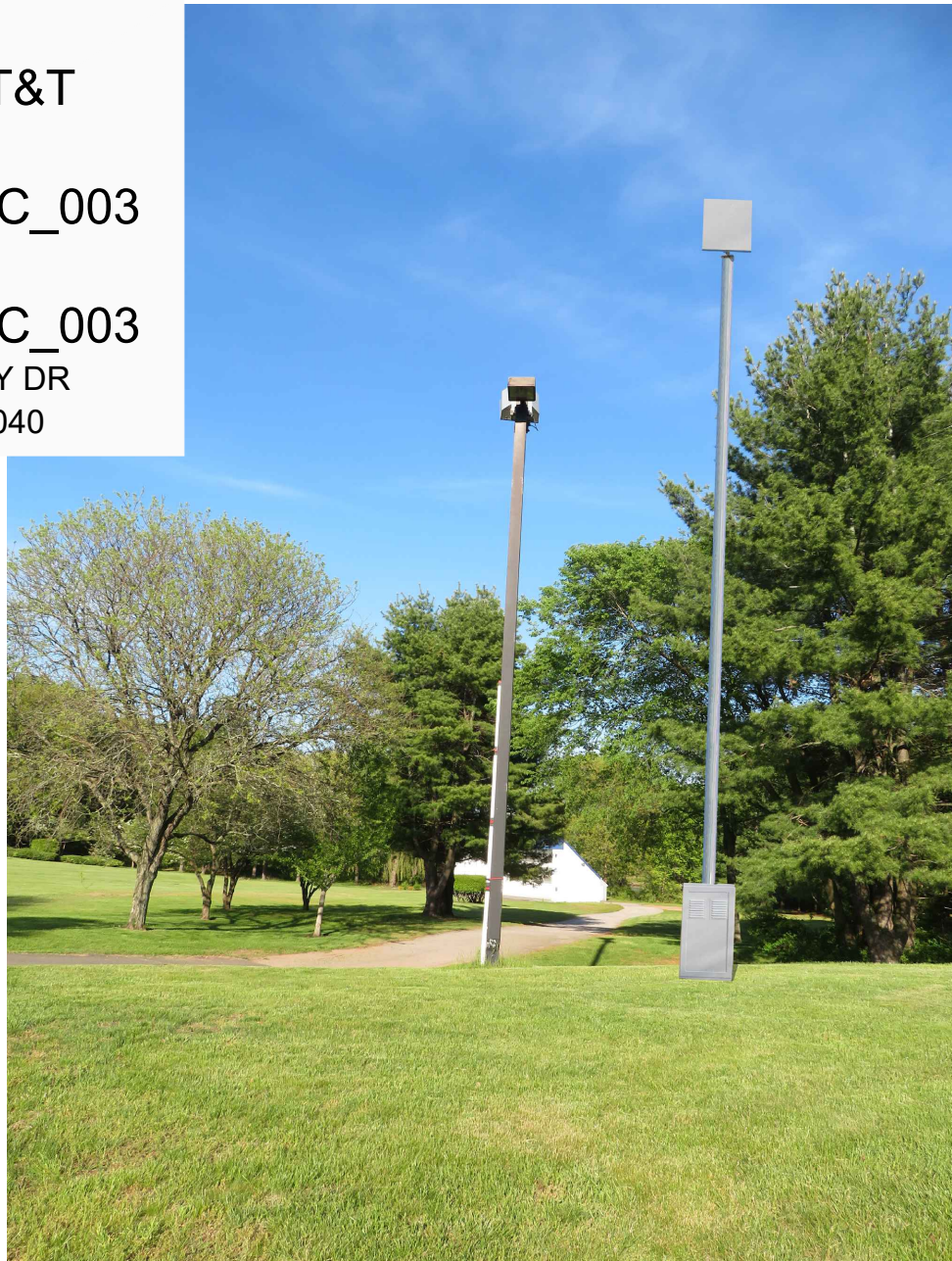
## **Attachment 4**

Prepared For:  
CENTERLINE-AT&T

Site Number:  
CRAN\_RCTB\_MANC\_003

Site Name:  
CRAN\_RCTB\_MANC\_003

50 BIDWELL ST.- RAMEY DR  
MANCHESTER, CT 06040



**SITE NO:** CRAN\_RCTB\_MANC\_003

**SITE NAME:** CRAN\_RCTB\_MANC\_003

**ADDRESS:** 50 BIDWELL ST.- RAMEY DR  
MANCHESTER, CT 06040



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

PREPARED FOR:



750 WEST CENTER STREET  
SUITE #301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE  
N. ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5584

**SITE TYPE:** UTILITY POLE

**DATE:** 03/09/2022 **REV:** 0

**DRAWN BY:** AM

**SCALE:** N.T.S.

THIS STUDY DOES NOT CLAIM IN ANY WAY TO SHOW THE ONLY AREAS OF VISIBILITY. IT IS MEANT TO SHOW A BROAD REPRESENTATION OF AREAS WHERE THE PROPOSED INSTALLATION MAY BE VISIBLE BASED UPON THE BEST INFORMATION FOR TOPOGRAPHY AND VEGETATION LOCATIONS AVAILABLE TO DATE.



# PHOTO LOCATION

**SITE NO:** CRAN\_RCTB\_MANC\_003

**SITE NAME:** CRAN\_RCTB\_MANC\_003

**ADDRESS:** 50 BIDWELL ST.- RAMEY DR  
MANCHESTER, CT 06040



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

PREPARED FOR:



750 WEST CENTER STREET  
SUITE #301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE  
N. ANDOVER, MA 01845  
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EXISTING CONDITIONS

LOCATION # 1

DATE OF PHOTO: 12/27/2021



VIEW EAST FROM FOUNDERS DR S.

**SITE NO:** CRAN\_RCTB\_MANC\_003

**SITE NAME:** CRAN\_RCTB\_MANC\_003

**ADDRESS:** 50 BIDWELL ST.- RAMEY DR  
MANCHESTER, CT 06040



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

PREPARED FOR:



750 WEST CENTER STREET  
SUITE #301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE  
N. ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5584

**SITE TYPE:** UTILITY POLE

**DATE:** 03/09/2022 **REV:** 0

**DRAWN BY:** AM

**SCALE:** N.T.S.

THIS STUDY DOES NOT CLAIM IN ANY WAY TO SHOW THE ONLY AREAS OF VISIBILITY. IT IS MEANT TO SHOW A BROAD REPRESENTATION OF AREAS WHERE THE PROPOSED INSTALLATION MAY BE VISIBLE BASED UPON THE BEST INFORMATION FOR TOPOGRAPHY AND VEGETATION LOCATIONS AVAILABLE TO DATE.

**PROPOSED CONDITIONS**

**LOCATION # 1**

**DATE OF PHOTO: 12/27/2021**



PROPOSED ANTENNA CABLES  
ROUTED WITHIN POLE

PROPOSED METRO CELL POLE CAB COMMSCOPE  
P/N 760240957EXW381S (BY OTHERS)  
(PAINTED WHITE)

POLE CAB ENCLOSURE

**VIEW EAST FROM FOUNDERS DR S.**

NOTE:  
ALL EXISTING UTILITY POLE ATTACHMENTS  
AND FIXTURES ARE TO BE TRANSFERRED  
TO NEW POLE AT THE SAME HEIGHTS  
UNLESS OTHERWISE NOTED.

**SITE NO:** CRAN\_RCTB\_MANC\_003

**SITE NAME:** CRAN\_RCTB\_MANC\_003

**ADDRESS:** 50 BIDWELL ST.- RAMEY DR  
MANCHESTER, CT 06040



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

PREPARED FOR:



750 WEST CENTER STREET  
SUITE #301  
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE  
N. ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5584

**SITE TYPE:** UTILITY POLE

**DATE:** 03/09/2022

**REV:** 0

**DRAWN BY:** AM

**SCALE:** N.T.S.

THIS STUDY DOES NOT CLAIM IN ANY WAY  
TO SHOW THE ONLY AREAS OF VISIBILITY.  
IT IS MEANT TO SHOW A BROAD  
REPRESENTATION OF AREAS WHERE THE  
PROPOSED INSTALLATION MAY BE VISIBLE  
BASED UPON THE BEST INFORMATION FOR  
TOPOGRAPHY AND VEGETATION  
LOCATIONS AVAILABLE TO DATE.



## **Attachment 5**



## Radio Frequency Safety Survey Prediction

### AT&T New England Light Pole Facility

**Site Name:** CRAN\_RCTB\_MANC\_003

**FA:** 14367840

**USID:** 193363

**Address:** 60 Bidwell St.,  
Manchester, CT 06040

**Latitude:** 41.760304

**Longitude:** 72.560172

**Prepared for:**

AT&T New England on behalf of  
AT&T New England

**Report Writer:** Alex Van Abbema

**Date:** November 2, 2020

**Report Reviewer:** Brandon Green



### **Statement of Compliance**

AT&T New England will be compliant with FCC Regulations upon installation of recommended mitigation measures.

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**1.0 GENERAL SUMMARY**

Centerline Communications, LLC (“Centerline”) has been contracted to provide a Radio Frequency (RF) Analysis for the following AT&T New England wireless light pole facility to determine whether the facility is in compliance with federal standards and regulations regarding RF emissions. This analysis includes theoretical emissions calculations for all equipment for AT&T New England .

**1.1 SITE SUMMARY**

Analysis Site Data	
<b>Site Name:</b>	CRAN_RCTB_MANC_003
<b>Site Address:</b>	60 Bidwell St., Manchester CT 06040
<b>Site Latitude:</b>	41.760304 N
<b>Site Longitude:</b>	72.560172 W
<b>Facility Type:</b>	Light Pole
Compliance Summary	
<b>Compliance Status:</b>	Compliant Upon Mitigation Installation
Maximum Modeled MPE% the Ground Level AT&T New England (General Public Limit):	0.56%
Maximum Modeled MPE% on the Nearest Rooftop AT&T New England (General Public Limit):	0.03 %
Maximum Modeled MPE% at the Antenna Level AT&T New England (General Public Limit):	1374.10 %
Site Data Information	
<b>CD:</b>	CRAN_RCTB_MANC_003_CD_REVA_05.27.20

There are areas near the proposed antenna that are predicted to exceed MPE limits. The table below shows the distance from the antenna these areas extend.

Horizontal Safety Distance (from Antenna Face)	
General Public Limit (ft.)	13'
Occupational Limit (ft.)	4'
Vertical Safety Distance (From Bottom Tip of Antenna)	
General Public Limit (ft.)	7'
Occupational Limit (ft.)	6'



Signage and barriers are the primary means of mitigating access to accessible areas of exposure. Below is a summary of existing and recommended signage at this AT&T New England facility.

Existing Signage			
Sign Type	Sign Size	# of Signs	Sign Placement
None	N/A	N/A	N/A

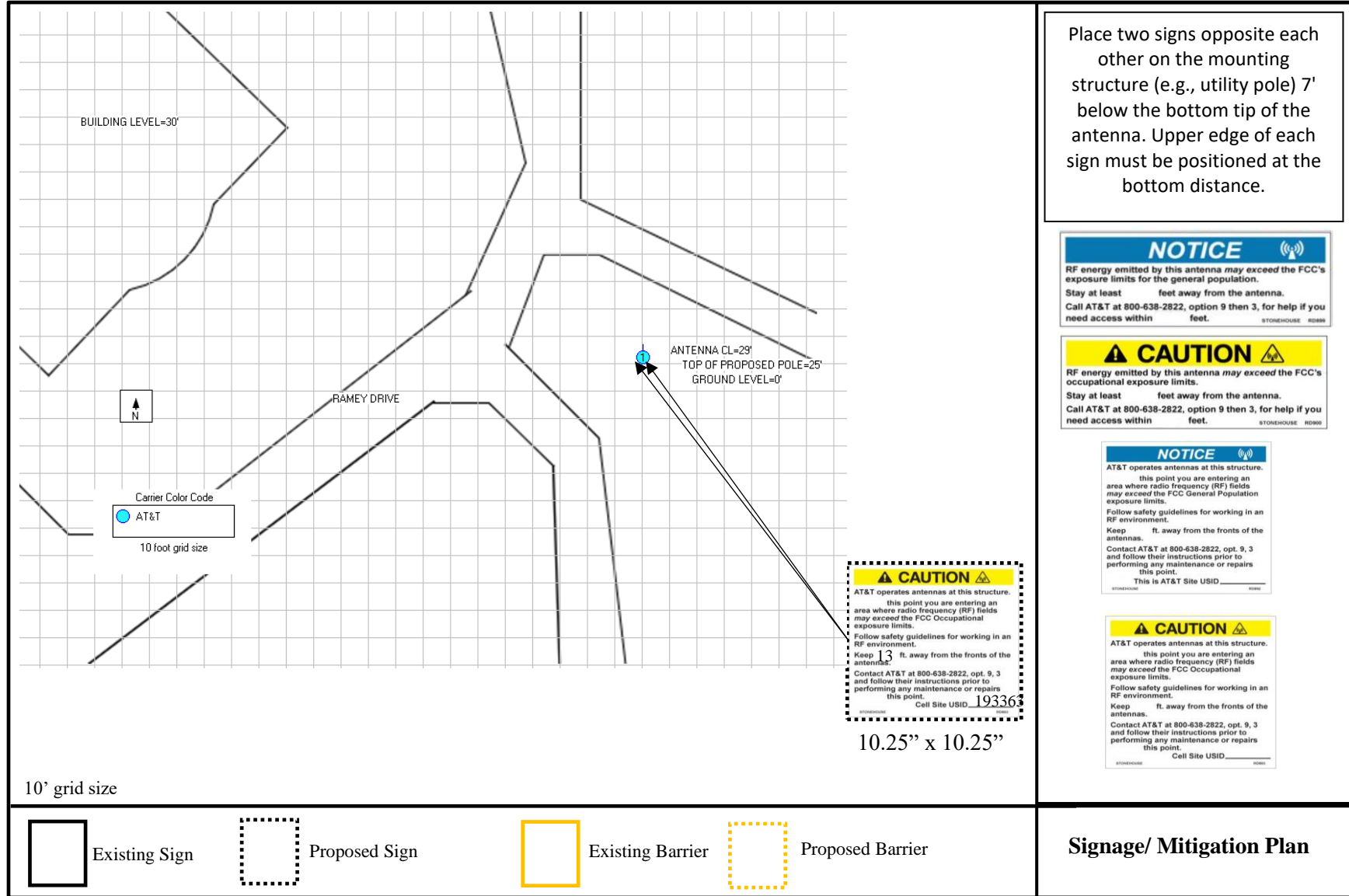
Recommended Signage			
Sign Type	Sign Size	# of Signs	Sign Placement
Yellow Caution	10.25" x 10.25"	2	7' below the bottom tip of the antenna

NOTE: Place two signs opposite each other on the mounting structure (e.g., utility pole) 7' below the bottom tip of the antenna. Upper edge of each sign must be positioned at the bottom distance.

**Signage Dimension Guidelines:**

Safe Distance (ft.)	Sign dimensions Height x Length	Attachment location
1-3	2.5" x 6.5"	Radome bottom surface
4-7	6" x 6"	Below antenna bottom tip
8-11	8.25" x 8.25"	Below antenna bottom tip
12-15	10.25" x 10.25"	Below antenna bottom tip
16-18	12.25" x 12.25"	Below antenna bottom tip
19+	14.25" x 14.25"	Below antenna bottom tip

2.0 SITE SCALE MAP





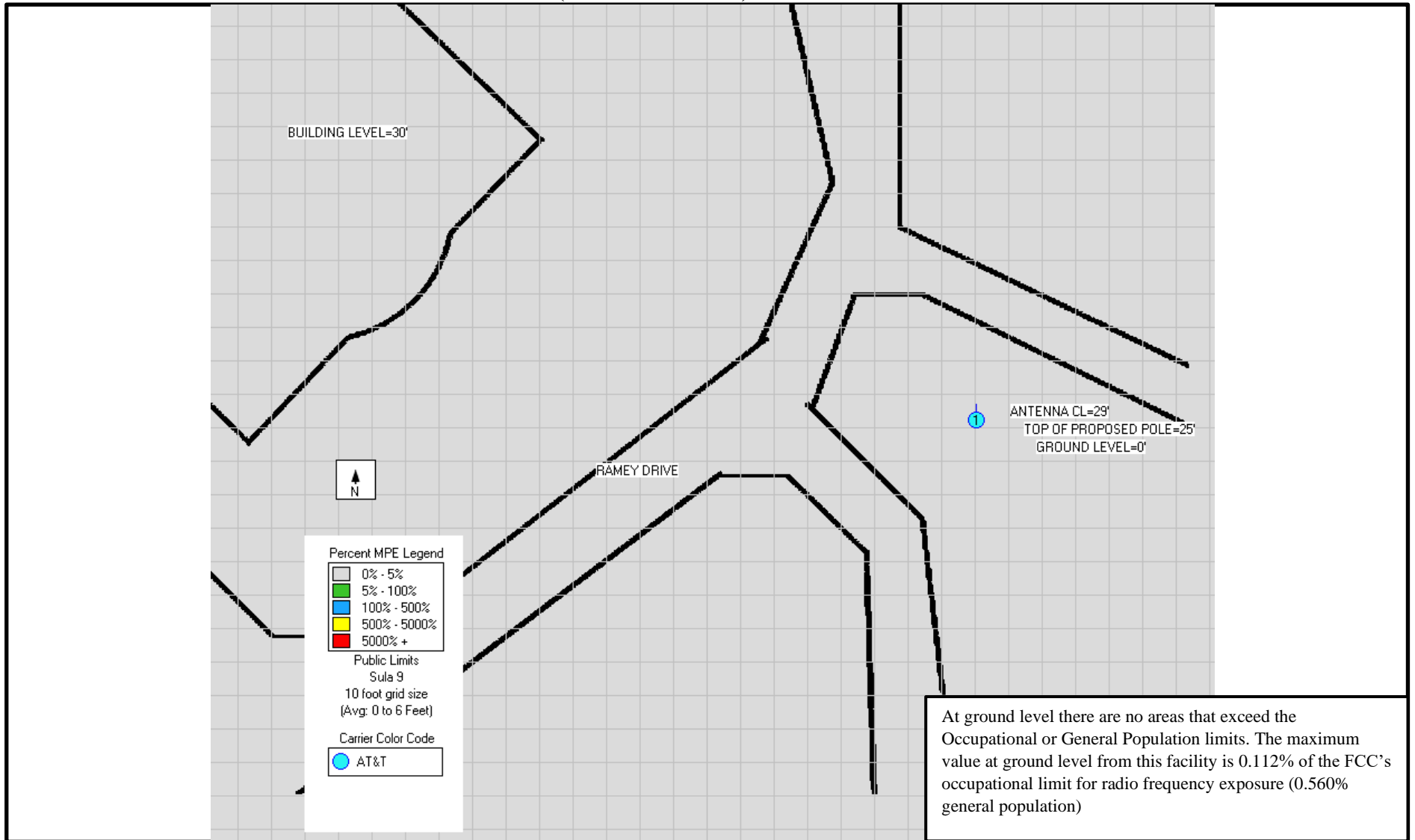
**3.0 ANTENNA INVENTORY**

Ant Num	Name	(MHz) Freq	ERP	TX Count	TPO (W)	TPO (dBm)	Gain in dbd	Total Loss	Mfg	Model	(ft) X	(ft) Y	(ft) Z	Azimuth	Horizontal BW	MDT	Length (ft.)
1	AT&T	1900	653.31	4	40.00	58.15	6.11	0.00	GALTRONICS	GQ2410-06621	231.70	128.60	28.06	0.00	157.00	0.00	2.08
1	AT&T	2100	1030.89	4	60.00	60.13	6.33	0.00	GALTRONICS	GQ2410-06621	231.70	128.60	28.06	0.00	168.00	0.00	2.08
1	AT&T	5150	1.05	2	0.32	30.21	2.15	0.00	GALTRONICS	GQ2410-06621	231.70	128.60	28.06	0.00	211.00	0.00	2.08

*Table 1: Total Site data table   \*\*(Z Value is distance from bottom of antenna to walking surface)*

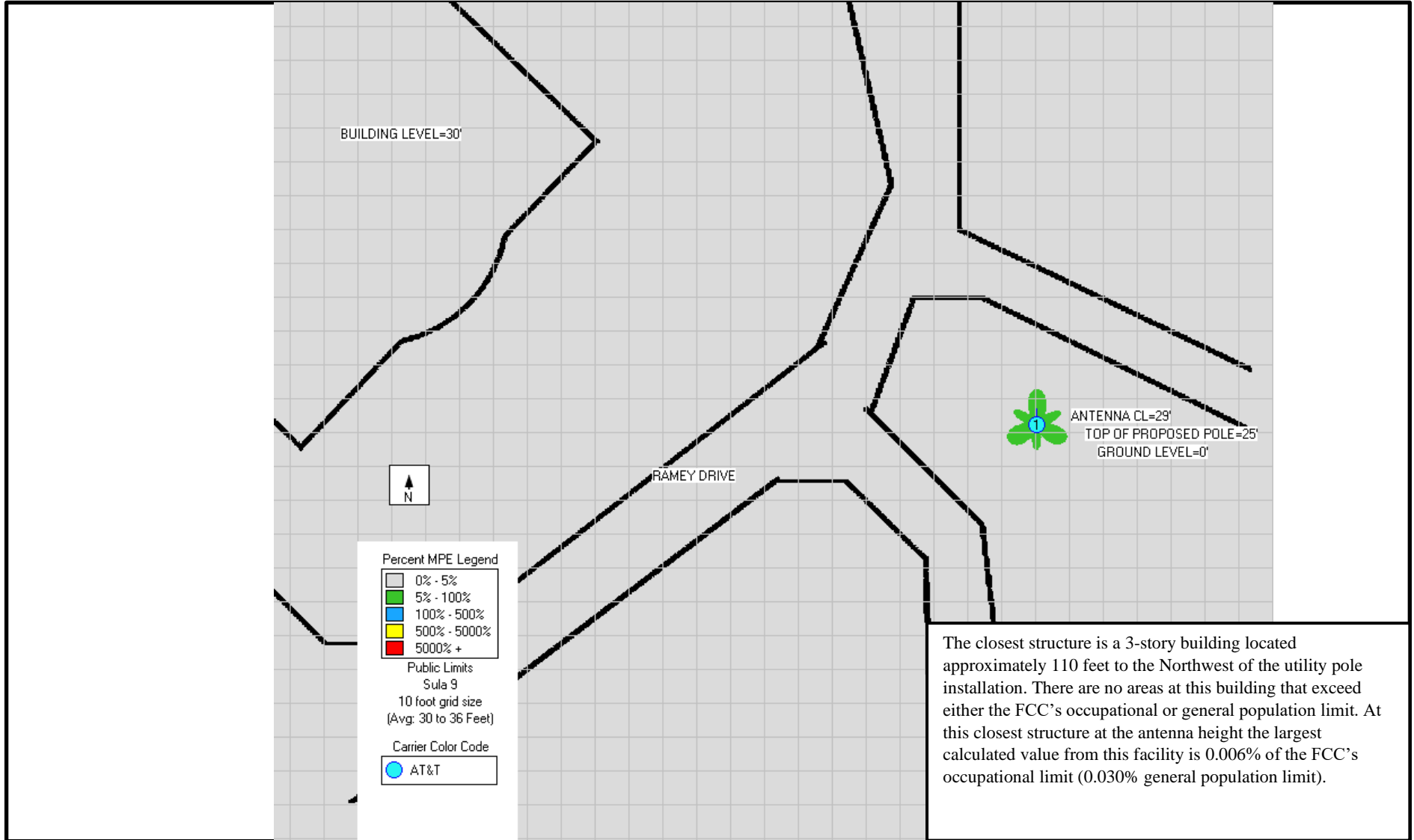
### 4.0 ANALYSIS

#### 4.1 PREDICTIVE MODEL: ALL TRANSMITTERS (GROUND LEVEL)

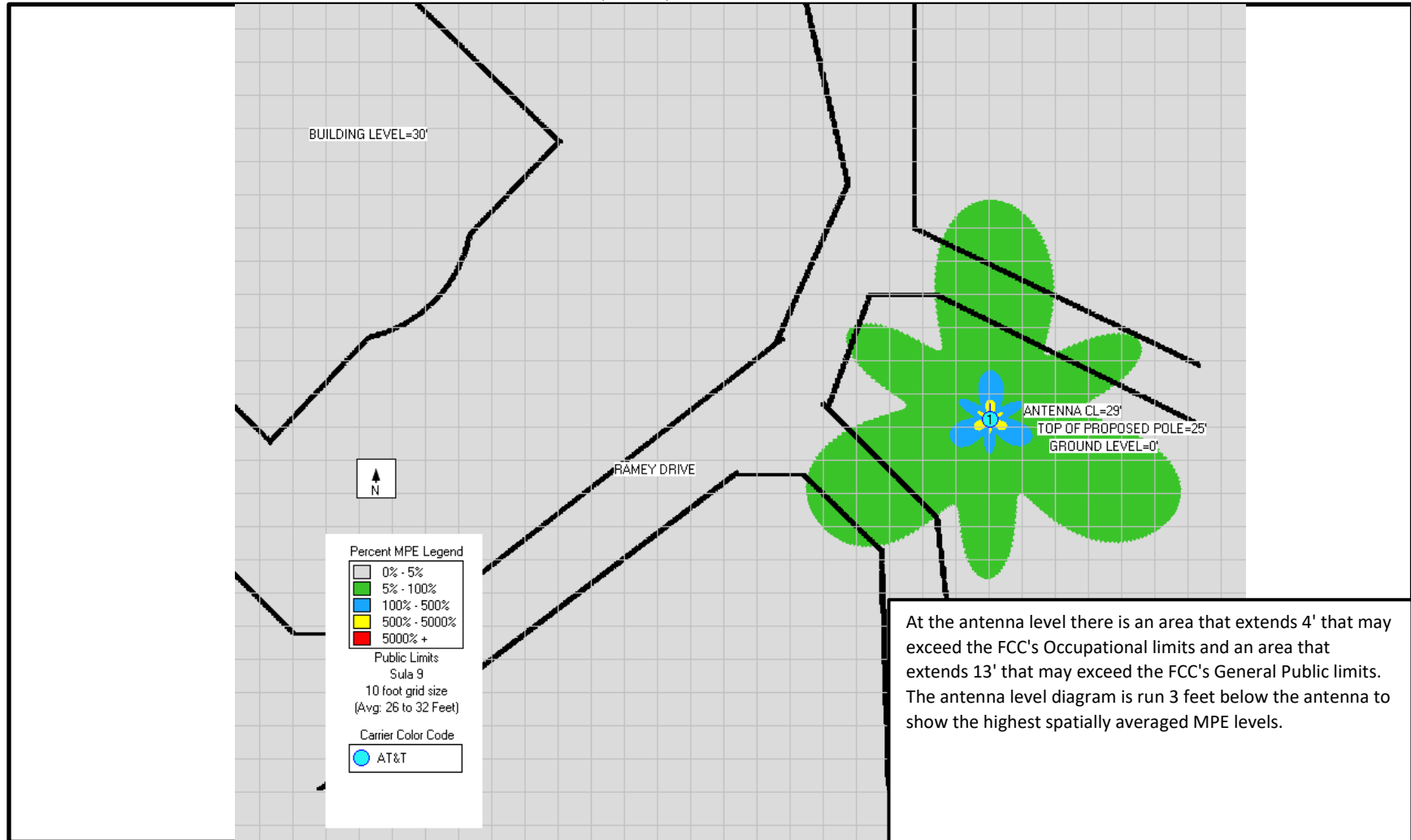




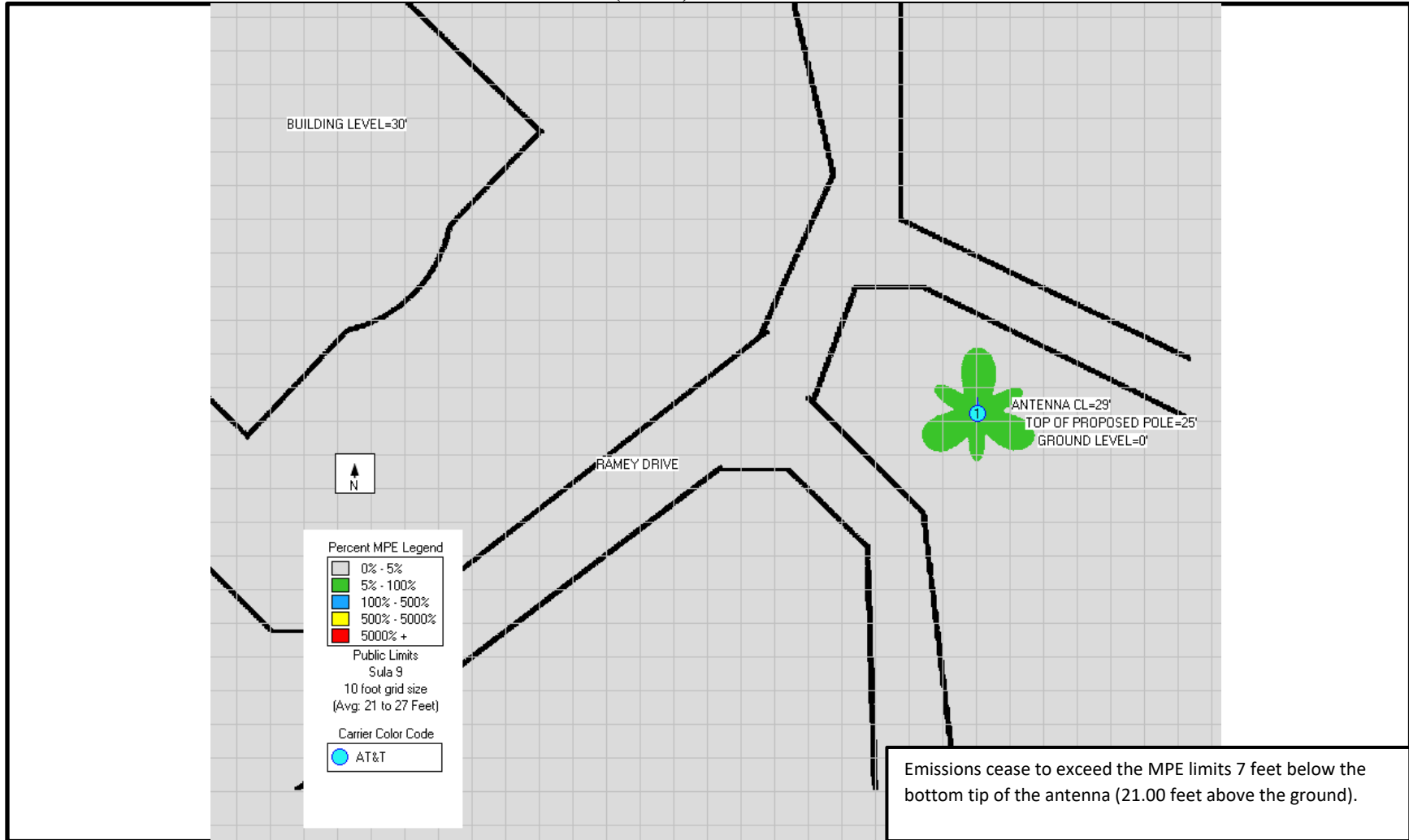
### 4.2 PREDICTIVE MODEL: NEAREST ROOFTOP LEVEL (30')



### 4.3 PREDICTIVE MODEL: ANTENNA LEVEL (26.00')



#### 4.4 PREDICTIVE MODEL: SAFETY DISTANCE (21.00')



**5.0 STATEMENT OF COMPLIANCE**

Centerline conducted worst case modeling to determine whether the light pole facility located at 60 Bidwell St. in Manchester, Connecticut is in compliance with FCC Regulations.

**5.1 STATEMENT OF AT&T MOBILITY COMPLIANCE**

Based on the information analyzed, AT&T New England will be compliant with FCC Regulations once the mitigation measures recommended in this report are implemented.

**5.2 RECOMMENDATIONS**

Recommended Signage			
Sign Type	Sign Size	# of Signs	Sign Placement
Yellow Caution	10.25" x 10.25"	2	7' below the bottom tip of the antenna

**Signage Installation Detail**

- Place two signs opposite each other on the mounting structure (e.g., utility pole) 7' below the bottom tip of the antenna. Upper edge of each sign must be positioned at the bottom distance.

**5.3 DESCRIPTION OF MPE-LIMIT EXCEEDING AREAS**

Based on worst-case predictive modeling, there are no modeled exposures on any accessible walking/working surface related to AT&T New England’s proposed antennas that exceed the FCC’s occupational and/or general population exposure limits at this site.

At the antenna level there is an area that extends 4' that may exceed the FCC's Occupational limits and an area that extends 13' that may exceed the FCC's General Public limits.

There is an area that extends 6' below the bottom tip of the antenna that may exceed the FCC's Occupational limits and an area that extends 7' that may exceed the FCC's General Public limits.

**5.4 CARRIER SIGNIFICANT CONTRIBUTION AREAS**

At ground level there are no areas predicted to exceed 1% MPE of the general population limit.

The closest structure is a 3-story building located approximately 110 feet to the Northwest of the utility pole installation. There are no areas at this building that exceed either the FCC’s occupational or general population limit. At this closest structure at the antenna height the largest calculated value from this facility is 0.006% of the FCC’s occupational limit (0.030% general population limit).

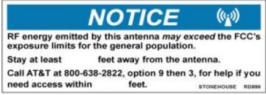
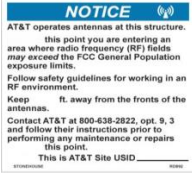
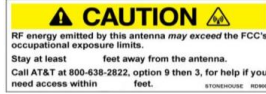
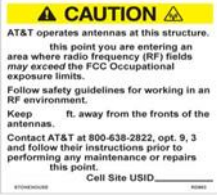
## **5.5 COLLOCATOR SIGNIFICANT CONTRIBUTION AREAS**

Based on review of construction drawings and aerial photographs, no collocators were identified onsite.

Based on worst-case predictive modeling, there are no modeled exposures on any accessible walking/working surface related to the carrier's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site.

**APPENDIX A: RF SIGNAGE**

**RF Signage**

Sign	Description	Sign	Description
	<p><b>Blue Notice Decal</b> Used to alert individuals that they are entering an area that may exceed the FCC’s General Population emissions limit. Must be positioned such that persons approaching from any angle have ample warning to avoid the marked areas.</p>		<p><b>Blue Notice Sign</b> Used to alert individuals that they are entering an area that may exceed the FCC’s General Population emissions limit. Must be positioned such that persons approaching from any angle have ample warning to avoid the marked areas.</p>
	<p><b>Yellow Caution Decal</b> Used to inform individuals that they are entering an area that may exceed the FCC’s Occupational emissions limit. Must be positioned such that persons approaching from any angle have ample warning to avoid the marked areas.</p>		<p><b>Yellow Caution Sign</b> Used to inform individuals that they are entering an area that may exceed the FCC’s Occupational emissions limit. Must be positioned such that persons approaching from any angle have ample warning to avoid the marked areas.</p>

## APPENDIX B: FCC GUIDELINES AND EMISSIONS THRESHOLD LIMITS

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

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limit for the 700 and 800 MHz Bands is approximately  $467 \mu\text{W}/\text{cm}^2$  and  $567 \mu\text{W}/\text{cm}^2$  respectively, and the general population exposure limit for the 1900 MHz PCS and 2100 MHz AWS bands is  $1000 \mu\text{W}/\text{cm}^2$ . Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

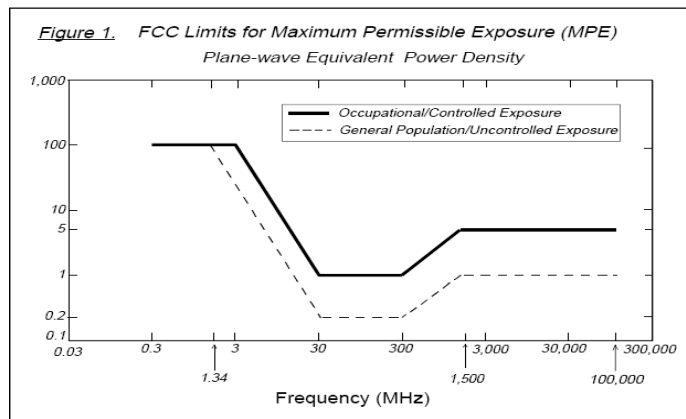
Occupational/Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure, have been properly trained in RF safety and can exercise control over their 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, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

\* Plane-wave equivalent power density





## **APPENDIX C: CALCULATION METHODOLOGY**

Centerline Communications, LLC has performed theoretical modeling using Waterford Consultants' RoofMaster™ 2020 Version 21.9.04.20 which uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations the power decreases inversely with the square of the distance. This modeling technique is very accurate with very low antenna centerlines, such as rooftops, where persons can get very close to the antennas and pass through fields in close proximity.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power.

## **APPENDIX D: CERTIFICATIONS**

I, Alex Van Abbema, preparer of this report certify that I am fully trained and aware of the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I have been trained in the procedures and requirements outlined in AT&T New England's RF Exposure: Responsibilities, Procedures & Guidelines document.

Alex Van Abbema

11/2/2020

I, Brandon Green, reviewer and approver of this report certify that I am fully trained and aware of the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I have been trained in the procedures and requirements outlined in AT&T New England's RF Exposure: Responsibilities, Procedures & Guidelines document.

Brandon Green

11/2/2020

**APPENDIX E: PROPRIETARY STATEMENT**

This report was prepared for the use of AT&T New England to meet requirements specified in AT&T New England's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by Centerline Communications, LLC are based solely on the information provided by AT&T New England and all observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to Centerline Communications, LLC so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

## **Attachment 6**

**CERTIFICATION OF SERVICE**

I hereby certify that on the 13<sup>th</sup> day of May, 2022 a copy of the following notice of the intended filing of a Petition with the Connecticut Siting Council for a declaratory ruling was sent by certified mail, return receipt requested, to the list below:

*Lucia Chiochio*

Dated: May 13, 2022

Cuddy & Feder LLP  
 45 Hamilton Avenue, 14<sup>th</sup> Floor  
 White Plains, New York 10601  
 Attorneys for:  
 New Cingular Wireless PCS, LLC

**State**

WILLIAM TONG, ATTORNEY GENERAL OFFICE OF THE ATTORNEY GENERAL 165 CAPITOL AVENUE HARTFORD, CT 06106	DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT OFFICES OF CULTURE AND TOURISM DAVID LEHMAN, COMMISSIONER 450 COLUMBUS BOULEVARD HARTFORD, CT 06103
DEPARTMENT OF PUBLIC HEALTH DR. MANISHA JUTHANI, COMMISSIONER 410 CAPITOL AVENUE HARTFORD, CT 06134	PUBLIC UTILITIES REGULATORY AUTHORITY MARISSA GILLETT, CHAIRMAN TEN FRANKLIN SQUARE NEW BRITAIN, CT 06051
COUNCIL ON ENVIRONMENTAL QUALITY PETER B. HEARN, EXECUTIVE DIRECTOR 79 ELM STREET HARTFORD, CT 06106	DEPARTMENT OF TRANSPORTATION JOSEPH GIULIETTI, COMMISSIONER 2800 BERLIN TURNPIKE P.O. BOX 317546 NEWINGTON, CT 06131
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION KATIE DYKES, COMMISSIONER 79 ELM STREET HARTFORD, CT 06106	DEPARTMENT OF AGRICULTURE BRYAN P. HURLBURT, COMMISSIONER 450 COLUMBUS BOULEVARD SUITE 701 HARTFORD, CT 06103
OFFICE OF POLICY AND MANAGEMENT JEFFREY R. BECKHAM, SECRETARY 450 CAPITOL AVENUE HARTFORD, CT 06106	GOVERNOR NED LAMONT STATE CAPITOL 210 CAPITOL AVENUE HARTFORD, CT 06106
DEPARTMENT OF EMERGENCY SERVICES & PUBLIC PROTECTION DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND	SECRETARY OF THE STATE DENISE W. MERRILL STATE OF CONNECTICUT 165 CAPITOL AVENUE, SUITE 1000 P.O. BOX 150470

SECURITY JAMES C. ROVELLA, COMMISSIONER 1111 COUNTRY CLUB ROAD MIDDLETOWN, CT 06457	HARTFORD, CT 06106
STATE REPRESENTATIVE- DISTRICT 009 JASON ROJAS LEGISLATIVE OFFICE BUILDING ROOM 4100 300 CAPITAL AVENUE HARTFORD, CT 06106	STATE SENATOR – DISTRICT S04 STEVE CASSANO LEGISLATIVE OFFICE BUILDING LOB ROOM 3300 300 CAPITAL AVENUE HARTFORD, CT 06106
CAPITOL REGION COUNCIL OF GOVERNMENTS 241 MAIN STREET, 4 <sup>TH</sup> FLOOR HARTFORD, CT 06106	

### Federal

FEDERAL COMMUNICATIONS COMMISSION 45 L STREET NE WASHINGTON, DC 20554	FEDERAL AVIATION ADMINISTRATION 800 INDEPENDENCE AVENUE, SW WASHINGTON, DC 20591
U.S. SENATOR CHRISTOPHER MURPHY COLT GATEWAY 120 HUYSHOPE AVENUE; SUITE 401 HARTFORD, CT 06106	U.S. SENATOR RICHARD BLUMENTHAL 90 STATE HOUSE SQUARE, 10 <sup>TH</sup> FLOOR HARTFORD, CT 06103
U.S. CONGRESSMAN – FIRST DISTRICT JOHN B. LARSON 221 MAIN STREET HARTFORD, CT 06106	

### Town of Manchester

JAY MORAN, MAYOR MANCHESTER BOARD OF DIRECTORS 41 CENTER STREET P.O. BOX 191 MANCHESTER, CT 06045	PLANNING & ZONING COMMISSION TOWN OF MANCHESTER 41 CENTER STREET P.O. BOX 191 MANCHESTER, CT 06045
INLAND WETLANDS AGENCY TOWN OF MANCHESTER 41 CENTER STREET P.O. BOX 191 MANCHESTER, CT 06045	BUILDING COMMITTEE TOWN OF MANCHESTER 41 CENTER STREET P.O. BOX 191 MANCHESTER, CT 06045
GARY ANDERSON, AICP, DIRECTOR OF PLANNING AND ECONOMIC DEVELOPMENT PLANNING DEPARTMENT 494 MAIN STREET	CONSERVATION COMMISSION TOWN OF MANCHESTER 41 CENTER STREET P.O. BOX 191 MANCHESTER, CT 06045

P.O. BOX 191 MANCHESTER, CT 06045	
DARRYL E. THAMES SR., TOWN CLERK TOWN OF MANCHESTER 41 CENTER STREET P.O. BOX 191 MANCHESTER, CT 06045	

## NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition being filed with the Connecticut Siting Council (“Siting Council”) on or after May 16, 2022 by New Cingular Wireless PCS, LLC (“AT&T”). AT&T seeks a declaratory ruling 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 new pole.

The proposed telecommunications facility is located on the property of Manchester Community College campus, at 50 Bidwell Street/Ramer Drive, in the Town of Manchester, owned by the State of Connecticut Community College with an address of 60 Bidwell Street and identified on the Town of Manchester’s GIS as Parcel ID 047000060 (the “Property”). An approximately 37’-6” tall pole will be installed in the southeastern portion of the campus near the driveway to the Bicentennial Band Shell. AT&T’s proposed Facility consists of a panel antenna at the top of the new pole and associated equipment located at the base of the pole within an enclosure. The top of AT&T’s antenna will reach a height of approximately 36’-3” above grade level. 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.

The Petition will provide additional details of the proposal and explain why AT&T submits that this proposed small cell Facility presents no significant adverse environmental effects. The location, height and other features of the proposal are subject to review and potential change under the provisions of Connecticut General Statutes Sections 16-50g et. seq.

Copies of the Petition will be available for review during normal business hours on or after May 16, 2022, at the following:

Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Town of Manchester  
Darryl E. Thames, Sr., Town Clerk  
41 Center Street  
P.O. Box 191  
Manchester, CT 06045

or the offices of the undersigned. A copy of the Petition will also be available on the Connecticut Siting Council website: <https://www.ct.gov/cSc/site/default.asp> under Pending Matters. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

Lucia Chiocchio, Esq.  
Cuddy & Feder LLP  
445 Hamilton Ave, 14th Floor  
White Plains, New York 10601  
(914) 761-1300  
Attorneys for the Petitioner



**CERTIFICATION OF SERVICE**

I hereby certify that on the 13<sup>th</sup> day of May 2022, a copy of the following letter and notice of the intended filing of a Petition with the Connecticut Siting Council for a declaratory ruling was sent by certified mail, return receipt requested, to the attached list of abutting property owners:



Dated: May 13, 2022

Cuddy & Feder LLP  
45 Hamilton Avenue, 14<sup>th</sup> Floor  
White Plains, New York 10601  
Attorneys for:  
New Cingular Wireless PCS, LLC (AT&T)

STATE OF CONNECTICUT COMMUNITY COLLEGE 165 CAPITOL AVE UNIT DPW HARTFORD, CT 06106	CROSSROADS COMMUNITY CATHEDRAL 1492 SILVER LN EAST HARTFORD, CT 06118
TOWN OF MANCHESTER RECREATION/CEMETERY 41 CENTER STREET MANCHESTER, CT 06040	THOMAS L. STRINGFELLOW 183 HILLSTOWN RD MANCHESTER, CT 06040
HENRY L. BOTTICELLO 209 HILLSTOWN RD MANCHESTER, CT 06040	HENRY L. BOTTICELLO EST ELLEN M. OECHSLER EX AND ANTHONY BOTTICELLO EX 103 LEVITA RD LEBANON, CT 06249
DOROTHY C. CANNON FREDERICK E. CANNON 215 HILLSTOWN RD MANCHESTER, CT 06040	HERMONTA PALMA RIKTA PALMA 652 WETHERELL ST MANCHESTER, CT 06040
HEMONTA F. PALMA RIKTA W. PALMA 642 WETHERELL ST MANCHESTER, CT 06040	LISA B. SMITH 636 WETHERELL ST MANCHESTER, CT 06040
NATHAN P. FOX 626 WETHERELL ST MANCHESTER, CT 06040	HELEN S. VILGA 618 WETHERELL ST MANCHESTER, CT 06040
LINDA J. BUCKLAND 610 WETHERELL ST MANCHESTER, CT 06040	LISA M. HENAULT MICHAEL J. ST LAURENT 70 ROLLINGVIEW DR VERNON, CT 06606

MICHAEL F. MENDITTO 596 WETHERELL ST MANCHESTER, CT 06040	JOHN SCHNEIDER 580 WETHERELL ST MANCHESTER, CT 06040
KITSHA O. ALVARADO REYLIN CAMILO 572 WETHERELL ST MANCHESTER, CT 06040	RYAN A. SIROIS KAREN B. SIROIS 564 WETHERELL ST MANCHESTER, CT 06040
GARY FOURNIER DEBORAH FOURNIER 556 WETHERELL ST MANCHESTER, CT 06040	JACQUELINE R. GENT AINSWORTH ONEIL BROWN JR 548 WETHERELL ST MANCHESTER, CT 06040
MARK S. STONE 540 WETHERELL ST MANCHESTER, CT 06040	GEORGE R. PRASSER JR. SUSAN R. PRASSER 528 WETHERELL ST MANCHESTER, CT 06040
GRACE RETTBURG WAYNE S. RETTBURG 522 WETHERELL ST MANCHESTER, CT 06040	SHARON R. MADORE 514 WETHERELL ST MANCHESTER, CT 06040
CHANTEE MILLER 506 WETHERELL ST MANCHESTER, CT 06040	ROBERT F. BLANCHARD 37 PONDVIEW DR MANCHESTER, CT 06040
KAREN D. LUMPKIN RONALD J. LUMPKIN 494 WETHERELL ST MANCHESTER, CT 06040	THOMAS MANAGER 48 WETHERELL ST MANCHESTER, CT 06040
STEPHEN D. BRUNO 476 WETHERELL ST MANCHESTER, CT 06040	CAROL L. CHAMP 468 WETHERELL ST MANCHESTER, CT 06040
DANIEL D. CYR JONI HUBBARD 458 WETHERELL ST MANCHESTER, CT 06040	ANGELA D. OKWUAZI 454 WETHERELL ST MANCHESTER, CT 06040
LINDA J. THERRIEN 450 WETHERELL ST MANCHESTER, CT 06040	STATE OF CONNECTICUT 165 CAPITOL AVE -DPW HARTFORD, CT 06106
CONNECTICUT LIGHT & POWER CO P.O. BOX 270 HARTFORD, CT 06141	THE ANDREW ANSALDI COMPANY 186 BIDWELL ST MANCHESTER, CT 06040

ANTHONY ARMETTA 8 WOODSIDE ST MANCHESTER, CT 06040	THOMAS W. WARD MAUREEN C. WARD 674 WETHERELL ST MANCHESTER, CT 06040
SHIRLEY D. GEER GORDON A. GEER 668 WETHERELL ST MANCHESTER, CT 06040	JAMES E. STOVEKEN III JENNIFER STOVEKEN 658 WETHERELL ST MANCHESTER, CT 06040
MIRIAM A. HINDS 448 WETHERELL ST MANCHESTER, CT 06040	KENNETH J. BOYNTON 100 DOBSON RD UNIT 25 VERNON, CT 06066
FIRST BAPTIST CHURCH OF MANCHESTER 240 HILLSTOWN RD MANCHESTER, CT 06040	BOTTICELLO PROPERTIES LLC 209 HILLSTOWN RD MANCHESTER, CT 06040
DIANE M. SCHAUB 188 HILLSTOWN RD MANCHESTER, CT 06040	ALDRED MENDEZ WINSOME EL-AMIN 66 WILFRED RD MANCHESTER, CT 06040
HOSNE A. BEGUM 352 HACKMATAK ST MANCHESTER, CT 06040	SHAFI ALAM 68-70 WILFRED RD MANCHESTER, CT 06040
PETER BOTSE BAIDOO 116 H JEFFERSON AVE CLEARWATER, FL 33755	MILLICENT THOMAS 76 WILFRED RD MANCHESTER, CT 06040
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NANCY ANDRUSIS 34 BIDWELL ST MANCHESTER, CT 06040	HARIHARAN KUPPURAJ 77 CHAPONIS WAY SOUTH WINDSOR, CT 06074
MCG MANCHESTER LLC 59 FIELD ST UNIT 108 TORRINGTON, CT 06790	BASSER-KAUFMAN 216 LLC C/O BASSER-KAUFMAN 151 IRVING PL WOODMERE, NY 11598
RM19 HOLDINGS LLC 3949 FOREST PKWY UNIT 100 WHEATFIELD, NY 14120	RAHF SQUIRE PRESERVATION LLC 551 FIFTH AVE 23RD FLR NEW YORK, NY 10176

May 13, 2022

**VIA CERTIFIED MAIL/  
RETURN RECEIPT REQUESTED**

Re: New Cingular Wireless PCS, LLC (“AT&T”)  
Installation of A Small Cell Wireless Telecommunication Facility  
Manchester Community College  
50 Bidwell Street (Ramey Drive), Manchester, Connecticut

Dear Sir or Madam:

We are writing to you on behalf of our client New Cingular Wireless PCS, LLC (“AT&T”) with respect to the above referenced matter and our client’s intent to file a petition for a declaratory ruling with the State of Connecticut Siting Council for approval of installation of a small cell wireless telecommunication facility on a new pole (the “Facility”) to be installed at the Manchester Community College campus property owned by State of Connecticut.

State law requires that record owners of property abutting a parcel on which a facility is proposed be sent notice of an applicant’s intent to file a petition with the Siting Council.

Included with this letter please find a Notice of this submission and details of the proposal. Of note, the location, height and other features of the Facility are subject to review and potential change by the Connecticut Siting Council under the provisions of Connecticut General Statutes §16-50g et seq.

If you have any questions concerning this petition, please contact the Connecticut Siting Council or the undersigned after May 16, 2022, the date that the petition is expected to be on file.

Very truly yours,

Lucia Chiocchio  
Enclosure

## NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition being filed with the Connecticut Siting Council (“Siting Council”) on or after May 16, 2022 by New Cingular Wireless PCS, LLC (“AT&T”). AT&T seeks a declaratory ruling 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 new pole.

The proposed telecommunications facility is located on the property of Manchester Community College campus, at 50 Bidwell Street/Ramer Drive, in the Town of Manchester, owned by the State of Connecticut Community College with an address of 60 Bidwell Street and identified on the Town of Manchester’s GIS as Parcel ID 047000060 (the “Property”). An approximately 37’-6” tall pole will be installed in the southeastern portion of the campus near the driveway to the Bicentennial Band Shell. AT&T’s proposed Facility consists of a panel antenna at the top of the new pole and associated equipment located at the base of the pole within an enclosure. The top of AT&T’s antenna will reach a height of approximately 36’-3” above grade level. 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.

The Petition will provide additional details of the proposal and explain why AT&T submits that this proposed small cell Facility presents no significant adverse environmental effects. The location, height and other features of the proposal are subject to review and potential change under the provisions of Connecticut General Statutes Sections 16-50g et. seq.

Copies of the Petition will be available for review during normal business hours on or after May 16, 2022, at the following:

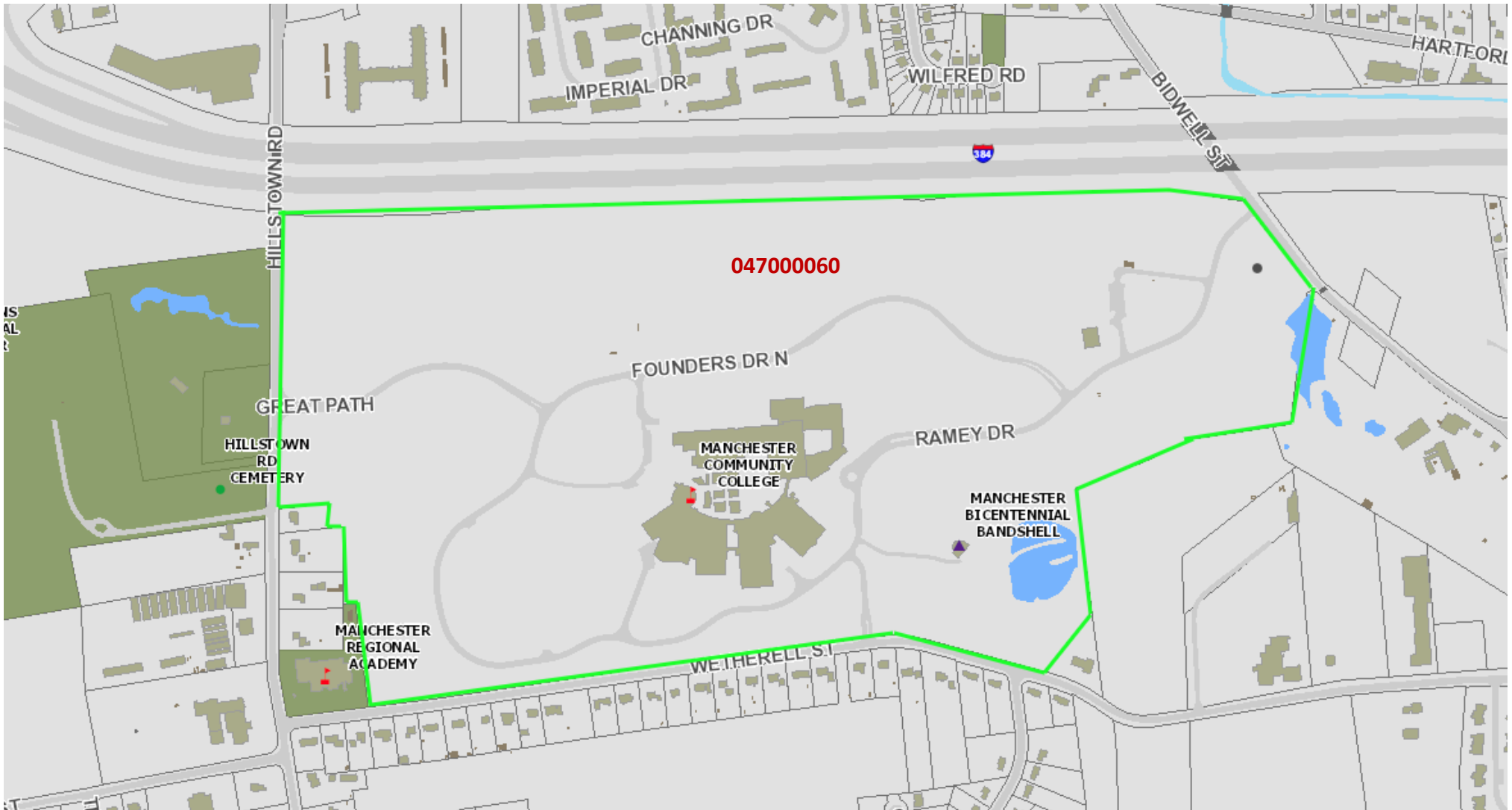
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Town of Manchester  
Darryl E. Thames, Sr., Town Clerk  
41 Center Street  
P.O. Box 191  
Manchester, CT 06045

or the offices of the undersigned. A copy of the Petition will also be available on the Connecticut Siting Council website: <https://www.ct.gov/cSc/site/default.asp> under Pending Matters. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

Lucia Chiocchio, Esq.  
Cuddy & Feder LLP  
445 Hamilton Ave, 14th Floor  
White Plains, New York 10601  
(914) 761-1300  
Attorneys for the Petitioner

Abutter's Map



Parcel ID	Site Address	Owner Name	Co-Owner Name	Mailing Address	City	State	Zip
47000060	60 BIDWELL ST	STATE OF CONNECTICUT COMMUNITY COLLEGE		165 CAPITOL AVE UNIT DPW	HARTFORD	CT	06106
519000206	206 SPENCER ST	CROSSROADS COMMUNITY CATHEDRAL		1492 SILVER LN	EAST HARTFORD	CT	06118
295000130	130 HILLSTOWN RD	TOWN OF MANCHESTER	RECREATION/ CEMETERY	41 CENTER ST	MANCHESTER	CT	06040
295000180	180 HILLSTOWN RD	TOWN OF MANCHESTER	RECREATION/ CEMETERY	41 CENTER ST	MANCHESTER	CT	06040
295000183	183 HILLSTOWN RD	THOMAS L. STRINGFELLOW		183 HILLSTOWN RD	MANCHESTER	CT	06040
295000195	195 HILLSTOWN RD	HENRY L. BOTTICELLO		209 HILLSTOWN RD	MANCHESTER	CT	06040
295000209	209 HILLSTOWN RD	HENRY L. BOTTICELLO EST	ELLEN M OECHSLER EX AND ANTHONY BOTTICELLO EX	103 LEVITA RD	LEBANON	CT	06249
295000215	215 HILLSTOWN RD	DOROTHY C. CANNON	FREDERICK E. CANNON	215 HILLSTOWN RD	MANCHESTER	CT	06040
295000237	237 HILLSTOWN RD	TOWN OF MANCHESTER		41 CENTER ST	MANCHESTER	CT	06040
598000652	652 WETHERELL ST	HERMONTA PALMA	RIKTA PALMA	652 WETHERELL ST	MANCHESTER	CT	06040
598000642	642 WETHERELL ST	HEMONTA F. PALMA	RIKTA W. PALMA	642 WETHERELL ST	MANCHESTER	CT	06040
598000636	636 WETHERELL ST	LISA B. SMITH		636 WETHERELL ST	MANCHESTER	CT	06040
598000626	626 WETHERELL ST	NATHAN P. FOX		626 WETHERELL ST	MANCHESTER	CT	06040
598000618	618 WETHERELL ST	HELEN S. VILGA		618 WETHERELL ST	MANCHESTER	CT	06040
598000610	610 WETHERELL ST	LINDA J. BUCKLAND		610 WETHERELL ST	MANCHESTER	CT	06040
598000602	602 WETHERELL ST	LISA M. HENAULT	MICHAEL J. ST LAURENT	70 ROLLINGVIEW DR	VERNON	CT	06066
598000596	596 WETHERELL ST	MICHAEL F. MENDITTO		596 WETHERELL ST	MANCHESTER	CT	06040
598000580	580 WETHERELL ST	JOHN SCHNEIDER		580 WETHERELL ST	MANCHESTER	CT	06040
598000572	572 WETHERELL ST	KITSHA O. ALVARADO	REYLIN CAMILO	572 WETHERELL ST	MANCHESTER	CT	06040
598000564	564 WETHERELL ST	RYAN A. SIROIS	KAREN B. SIROIS	564 WETHERELL ST	MANCHESTER	CT	06040
598000556	556 WETHERELL ST	GARY FOURNIER	DEBORAH FOURNIER	556 WETHERELL ST	MANCHESTER	CT	06040
598000548	548 WETHERELL ST	JACQUELINE R. GENT	AINSWORTH ONEIL BROWN JR	548 WETHERELL ST	MANCHESTER	CT	06040
598000540	540 WETHERELL ST	MARK S. STONE		540 WETHERELL ST	MANCHESTER	CT	06040
598000528	528 WETHERELL ST	GEORGE R. PRASSER JR.	SUSAN R. PRASSER	528 WETHERELL ST	MANCHESTER	CT	06040
598000522	522 WETHERELL ST	GRACE RETTBURG	WAYNE S. RETTBURG	522 WETHERELL ST	MANCHESTER	CT	06040
598000514	514 WETHERELL ST	SHARON R. MADORE		514 WETHERELL ST	MANCHESTER	CT	06040
598000506	506 WETHERELL ST	CHANTEE MILLER		506 WETHERELL ST	MANCHESTER	CT	06040
295000287	287 HILLSTOWN RD	ROBERT F. BLANCHARD		37 PONDVIEW DR	MANCHESTER	CT	06040
598000494	494 WETHERELL ST	KAREN D. LUMPKIN	RONALD J. LUMPKIN	494 WETHERELL ST	MANCHESTER	CT	06040
598000484	484 WETHERELL ST	THOMAS MANAGER		484 WETHERELL ST	MANCHESTER	CT	06040
598000476	476 WETHERELL ST	STEPHEN D. BRUNO		476 WETHERELL ST	MANCHESTER	CT	06040
598000468	468 WETHERELL ST	CAROL L. CHAMP		468 WETHERELL ST	MANCHESTER	CT	06040
598000458	458 WETHERELL ST	DANIEL D. CYR	JONI HUBBARD	458 WETHERELL ST	MANCHESTER	CT	06040
598000454	454 WETHERELL ST	ANGELA D. OKWUAZI		454 WETHERELL ST	MANCHESTER	CT	06040
598000450	450 WETHERELL ST	LINDA J. THERRIEN		450 WETHERELL ST	MANCHESTER	CT	06040
598000411	411 WETHERELL ST	STATE OF CONNECTICUT		165 CAPITOL AVE -DPW	HARTFORD	CT	06106
598000409	409 WETHERELL ST	CONNECTICUT LIGHT & POWER CO		PO BOX 270	HARTFORD	CT	06141
47000186	186 BIDWELL ST	THE ANDREW ANSALDI COMPANY		186 BIDWELL ST	MANCHESTER	CT	06040
47000101	101 BIDWELL ST	THE ANDREW ANSALDI COMPANY		186 BIDWELL ST	MANCHESTER	CT	06040
295000156	156 HILLSTOWN RD	TOWN OF MANCHESTER	RECREATION/ CEMETERY	41 CENTER ST	MANCHESTER	CT	06040
614000008	8 WOODSIDE ST	ANTHONY ARMETTA		8 WOODSIDE ST	MANCHESTER	CT	06040
598000674	674 WETHERELL ST	THOMAS W. WARD	MAUREEN C. WARD	674 WETHERELL ST	MANCHESTER	CT	06040
598000668	668 WETHERELL ST	SHIRLEY D. GEER	GORDON A. GEER	668 WETHERELL ST	MANCHESTER	CT	06040
598000658	658 WETHERELL ST	JAMES E. STOVEKEN III	JENNIFER STOVEKEN	658 WETHERELL ST	MANCHESTER	CT	06040
598000448	448 WETHERELL ST	MIRIAM A. HINDS		448 WETHERELL ST	MANCHESTER	CT	06040
039500240R	240R BAYBERY RD	KENNETH J. BOYNTON		100 DOBSON RD UNIT 25	VERNON	CT	06066
295000240	240 HILLSTOWN RD	FIRST BAPTIST CHURCH OF MANCHESTER		240 HILLSTOWN RD	MANCHESTER	CT	06040
295000224	224 HILLSTOWN RD	BOTTICELLO PROPERTIES LLC		209 HILLSTOWN RD	MANCHESTER	CT	06040
295000188	188 HILLSTOWN RD	DIANE M. SCHAUB		188 HILLSTOWN RD	MANCHESTER	CT	06040

47000134	134 BIDWELL ST	CONNECTICUT LIGHT & POWER COMPANY		P.O. BOX 270	HARTFORD	CT	06141
47000133	133 BIDWELL ST	CONNECTICUT LIGHT & POWER COMPANY		P.O. BOX 270	HARTFORD	CT	06141
602000066	66 WILDRED RD	ALDRED MENDEZ	WINSOME EL-AMIN	66 WILFRED RD	MANCHESTER	CT	06040
602000068	68 WILFRED RD	HOSNE A. BEGUM		352 HACKMATAACK ST	MANCHESTER	CT	06040
602000070	70 WILFRED RD	SHAFI ALAM		68-70 WILFRED RD	MANCHESTER	CT	06040
602000074	74 WILFRED RD	PETER BOTSE BAIDOO		116 H JEFFERSON AVE	CLEARWATER	FL	33755
602000076	76 WILFRED RD	MILLCENT THOMAS		76 WILFRED RD	MANCHESTER	CT	06040
602000080	80 WILFRED RD	MOUSTAPHA IDRISOU		80 WILFRED RD	MANCHESTER	CT	06040
602000064	64 WILFRED RD	WINSOME ELAMIN		66 WILFRED RD	MANCHESTER	CT	06040
602000062	62 WILFRED RD	SHAHIDUL A. CHOWDHURY	ZUMUR A. CHOWDHURY	31 WILFRED RD	MANCHESTER	CT	06040
602000060	60 WILFRED RD	MARY D'CRUZE		60 WILFRED RD	MANCHESTER	CT	06040
602000058	58 WILFRED RD	SYED ALI MOHAMMAD	AFSHAN MOHAMMAD	58 WILFRED RD	MANCHESTER	CT	06040
47000034	34 BIDWELL ST	NANCY ANDRUSIS		34 BIDWELL ST	MANCHESTER	CT	06040
47000030	30 BIDWELL ST	HARIHARAN KUPPURAJ		77 CHAPONIS WAY	SOUTH WINDSOR	CT	06074
271000750	750 HARTFORD RD	CONNECTICUT LIGHT & POWER CO		P.O. BOX 270	HARTFORD	CT	06141
519000130R	130R SPENCER ST	MCG MANCHESTER LLC		59 FIELD ST UNIT 108	TORRINGTON	CT	06790
519000210	210 SPENCER ST	BASSER-KAUFMAN 216 LLC	C/O BASSER-KAUFMAN	151 IRVING PL	WOODMERE	NY	11598
519000140	140 SPENCER ST	RM19 HOLDINGS LLC		3949 FOREST PKWY UNIT 100	WHEATFIELD	NY	14120
519000048	48 SPENCER ST	RAHF SQUIRE PRESERVATION LLC		551 FIFTH AVE 23RD FLR	NEW YORK	NY	10176