STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

NEW CINGULAR WIRELESS PCS, LLC (AT&T) BATCHED PETITION FOR A DECLARATORY RULING, PURSUANT TO CONNECTICUT GENERAL STATUTES §4-176 AND §16-50K, FOR THE INSTALLATION OF THREE SMALL CELL WIRELESS TELECOMMUNICATIONS FACILITIES ON PROPERTY LOCATED AT THE DURHAM FAIR GROUNDS LOCATED AT 24 TOWN HOUSE ROAD, DURHAM, CONNECTICUT.	PETITION NO._____ August 29, 2022

PETITION FOR A DECLARATORY RULING:
INSTALLATIONS 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 "Siting 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 new small cell wireless telecommunications facilities on new poles on property located at 24 Town House Road (also referred to by Parcel IDs: 48-2 & 48-6) in the Town of Durham, Connecticut (the "Durham Fair Grounds") owned by the Durham Agricultural Fair Association (the "Fair Association"). AT&T submits this batched application for three (3) new small cell wireless facilities on three (3) new utility poles throughout the Durham Fair Grounds as summarized and referred to as follows:

- Facility 1 (AT&T Site ID: CRAN_RTCB_A1CT_205): AT&T proposes a new Class 2 utility pole which will stand approximately 38'6"-tall above grade level ("AGL"). AT&T proposes to mount one 25.16"x24.13" masting antenna at the centerline height of approximately 37' AGL with associated equipment installed at the antenna-level height.

- Facility 2 (AT&T Site ID: CRAN_RTCB_A1CT_204): AT&T proposes a new Class 2 utility pole which will stand approximately 39'-tall AGL. AT&T proposes to mount two 25.16"x24.13" masting antennas at the centerline height of approximately 37' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.

- Facility 3 (AT&T Site ID: CRAN_RTCB_A1CT_109): AT&T proposes a new Class 2 utility pole which will stand approximately 34'-tall above grade level AGL. AT&T proposes to mount three 25.16"x24.13" masting antennas at the centerline height of approximately 30' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.

Attachment 1 includes the property owner's authorization permitting AT&T to file this Petition and install the above referenced facilities.

II. Factual Background

a. AT&T's Need for the Proposed Small Cell Facilities

AT&T identified a need for additional coverage and/or capacity relief in its network at the Durham Fair Grounds. The proposed facilities are designed to assure permanent, reliable wireless service to AT&T customers at the Durham Fair Grounds and surrounding areas. The existing poles located at the Durham Fair Grounds are all owned and maintained by the Fair Association. The existing poles are used by the fair for various electrical, audio, and lighting purposes. AT&T's use of the existing poles is not feasible due to the potential interference that AT&T's use may have on the Fair Association's use and maintenance of their poles. Similarly, shared use of the existing poles could cause disruption of AT&T's services since the Fair Association's pole or equipment maintenance would likely necessitate a temporary shut down or removal of AT&T's equipment. AT&T therefore proposes new poles which will be installed and owned by AT&T or a third-party vendor to be identified following approval by the Siting Council.

b. AT&T's Proposed Small Cell Facilities

AT&T proposes to install its three (3) small cell facilities on new Class 2 utility poles at three locations throughout the Durham Fair Grounds. The summary of AT&T's proposed facilities is included above. Specifications and details of AT&T's proposed facilities are shown on the drawings included in **Attachment 2 (Facility 1: Attachment 2a; Facility 2: Attachment 2b; Facility 3: Attachment 2c)**. Structural analysis reports confirming that the new pole installations will support AT&T's small cell facilities are included as **Attachment 3 (Facility 1: Attachment 3a; Facility 2: Attachment 3b; Facility 3: Attachment 3c)**. Photosimulations for each proposed facility are also included as **Attachment 4 (Facility 1: Attachment 4a; Facility 2: Attachment 4b; Facility 3: Attachment 4c)**. AT&T will deploy its 1900 MHz and AWS frequencies at each facility. AT&T does not propose any backup power for any of the proposed small cell facilities. The necessary fiber and power connections will be provided via overhead wiring routed by the existing Fair Association utility poles on site.

c. Siting Council Jurisdiction

Connecticut law confers jurisdiction to the Siting 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 located within the public right-of-way. PURA, Docket 16-06-38.

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

III. Discussion

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

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

i. Physical Environmental Effects

The proposed utility poles and AT&T's installation of antennas and associated radio and electrical equipment will not result in any significant physical and environmental change to the property or any adjacent parcels. None of the proposed facilities will be located within a wetland: Facility 1 is approximately 310' from the nearest wetland; Facility 2 is approximately 81' from the nearest wetland; and Facility 3 is approximately 530' from the nearest wetland. Facility 1 and Facility 3 are not located within a FEMA Flood Zone while Facility 2 appears to be located within Flood Zone AE. AT&T's proposed small cell facilities will not require any tree removal and the pole installation involves minimal disturbance. Construction activity is expected to take approximately 2 weeks total and construction will only occur Monday through Friday between the hours of 8:00am and 5:00pm.

ii. Visual Effects

The Durham Fair Grounds are approximately 45 acres in size and are improved with various agricultural and exhibit buildings. Above-ground utility poles are located throughout the Durham Fair Grounds and along the surrounding right-of-ways. The new poles will be placed upon private property where similar utility poles exist and AT&T's proposed poles will all be located at least 500' from the nearest public right-of-way. The closest residential structure to any of the facilities (Facility 3) will be approximately 500'. As shown in the photosimulations in **Attachment 4 (Facility 1: Attachment 4a; Facility 2: Attachment 4b; Facility 3: Attachment 4c)**, the proposed poles and AT&T's small cell facilities will not result in a significant visual impact to the area.

iii. FCC Compliance

The operation of AT&T's antennas will not increase the total radio frequency electromagnetic power density at the site to a level at or above applicable standards. Power density reports are included in **Attachment 5 (Facility 1: Attachment 5a; Facility 2: Attachment 5b; Facility 3: Attachment 5c)** which conclude that the maximum power density at ground/street level for each proposed facility are as follows:

- Facility 1: 1.02182%
- Facility 2: 4.64850%
- Facility 3: 2.91756%

The total radio frequency power density will be well within standards adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and the MPE limits established by the Federal Communications Commission.

b. Notice to Municipal Officials and Adjoining Landowners

Pursuant to 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 two tax parcels referred to herein as the Durham Fair Grounds. 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. The appropriate municipal officials and government agencies as listed in Section 16-50*l* of the C.G.S were also provided notice of AT&T's intent to file Petition.[1] **Attachment 6** also includes a certification of service to municipal officials and government agencies to whom notice was sent.

[1] At the time of this Petition, the Town of Durham has a vacancy in its First Selectman position. This Petition has therefore been sent to the Town of Durham Executive Assistant to the First Selectman as well as the two sitting Town Selectmen.

IV. Conclusion

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

Respectfully submitted,

Daniel Patrick
On behalf of the Petitioner

cc: Selectman John Szewczyk, Town of Durham
Selectman George Eames, Town of Durham
Charles Lawrence, Executive Assistant to the First Selectman, Town of Durham
Jennifer Perry, Administrative Coordinator of Building and Land Use Department, Town of Durham
Kim Garvis, Town Clerk, Town of Durham
AT&T
Centerline
Lucia Chiocchio, Esq.
Meyling Nuñez

ATTACHMENT 1

LETTER OF AUTHORIZATION

RE: New Cingular Wireless, LLC-Small Cell Installation // cRAN_RCTB_A1CT_109 // cRAN_RCTB_A1CT_204 // cRAN_RCTB_A1CT_204

ADDRESS: 24 Town House Road Durham CT

The Durham Agricultural Fair Association, owners of the above-described property, authorize New Cingluar 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 three new wireless communications facility at the above-described property.

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.

Sincerely,

Daniel Miramant,
President
Durham Agricultural Fair Association

ATTACHMENT 2

ATTACHMENT 2a

AT&T SITE ID: CRAN_RTCB_A1CT_205
24 TOWN HOUSE RD
DURHAM, CT 06422

FOR ZONING (NOT FOR CONSTRUCTION)

SHEET INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
C-1	SITE PLAN	1
C-2	ABUTTERS LIST	1
A-1	KEY PLAN AND ELEVATION	1
A-2	EQUIPMENT DETAILS	1

PROJECT DESCRIPTION

1. INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON PROPOSED NEW 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.

PROJECT SUMMARY

SITE ADDRESS:	24 TOWN HOUSE RD DURHAM, CT 06422
COUNTY:	MIDDLESEX
LATITUDE:	41.469264° N
LONGITUDE:	72.683269° W
STRUCTURE TYPE:	NEW POLE
ARCHITECT/ENGINEER:	HUDSON DESIGN GROUP LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845

VICINITY MAP (NOT TO SCALE)

DRIVING DIRECTIONS

FROM ROCKY HILL, CT:

HEAD SOUTHEAST TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO STATE HWY 411. TURN LEFT TO MERGE ONTO I-91 S. MERGE ONTO I-91 S. TAKE EXIT 3 FOR TRUMBULL ST. CONTINUE ONTO TRUMBULL ST. CONTINUE ONTO TRUMBULL ST. TURN RIGHT ONTO LINCOLN ST. TURN LEFT AT THE 1ST CROSS STREET ONTO BRADLEY ST. TURN RIGHT ONTO WHITNEY AVE. TURN LEFT INTO SACHEM ST. TURN RIGHT ONTO PROSPECT ST. TURN LEFT, TURN LEFT.

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.

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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

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

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

Daniel P. Hamm

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/03/22	ISSUED FOR REVIEW	MR
A	07/06/22	ISSUED FOR REVIEW	MR

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SITE ID:
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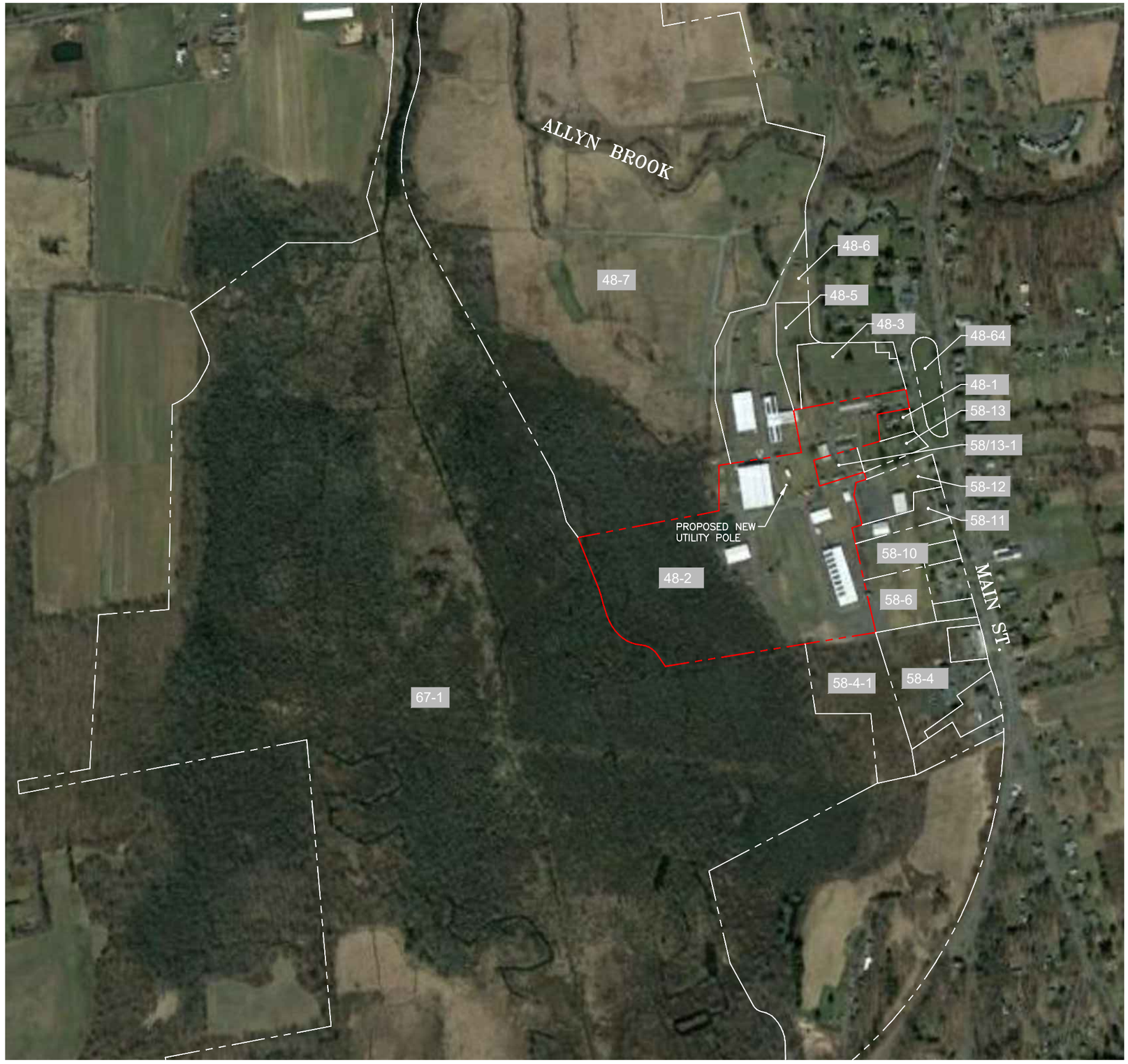
DURHAM, CT 06422
MIDDLESEX COUNTY

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



APPROXIMATE COORDINATES:	LAT:	41.469264° N
	LONG:	72.683269° W

SITE PLAN
22x34 SCALE: 1"=300'
11x17 SCALE: 1"=600'

1 / C-1

GRAPHIC SCALE
0 150 300 600 900 FEET

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

at&t
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SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1

IMMEDIATE ADJOINING PROPERTY OWNER INFORMATION

PARCEL	OWNER	PHYSICAL ADDRESS	MAILING ADDRESS
67–1	STATE OF CONNECTICUT	PARMELEE HILL RD DURHAM, CT 06422	79 ELM ST HARTFORD, CT06115
48–7	TOWN OF DURHAM	MAPLE AVE. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
58–4–1	TOWN OF DURHAM	MAIN ST. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
58–4	LAMOS LLC	16 MAIN ST. DURHAM, CT 06422	P.O. BOX 120111 EAST HAVEN, CT 06512
58–6	DURHAM AGRICULTURAL FAIR ASSOC	MAIN ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
58–10	DURHAM AGRICULTURAL FAIR ASSOC	52 MAIN ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
58–11	DURHAM AGRICULTURAL FAIR ASSOC	62 MAIN ST. DURHAM, CT 06422	24 TOWNHOUSE RD. DURHAM, CT 06422
58–12	DURHAM AGRICULTURAL FAIR ASSOC	68 MAIN ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
58–13	EAMES ADELE M & GEORGE M 3RD	10 TOWN HOUSE RD. DURHAM, CT 06422	10 TOWN HOUSE RD. DURHAM, CT 06422
58/13–1	DURHAM AGRICULTURAL FAIR ASSOC	TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–1	SALVA CHERYL N	18 TOWN HOUSE RD. DURHAM, CT 06422	18 TOWN HOUSE RD. DURHAM, CT 06422
48–2	DURHAM AGRICULTURAL FAIR ASSOC	24 TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–64	TOWN OF DURHAM	TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
48–3	TOWN OF DURHAM	30 TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
48–5	DURHAM AGRICULTURAL FAIR ASSOC	MAPLE ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–6	DURHAM AGRICULTURAL FAIR ASSOC	MAPLE ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422

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ABUTTER LIST

22x34 SCALE: 1"=80'
11x17 SCALE: 1"=160'

1 / C–2

GRAPHIC SCALE
0 40 80 160 240 FEET

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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750 WEST CENTER STREET,
SUITE# 301
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Daniel P. Hamm

CHECKED BY: AT

APPROVED BY: DPH

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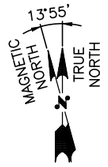
MIDDLESEX COUNTY

SHEET TITLE
ABUTTER LIST

SHEET NUMBER
C-2



KEY PLAN (1 / A-1)
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11x17 SCALE: 1"=60'

GRAPHIC SCALE
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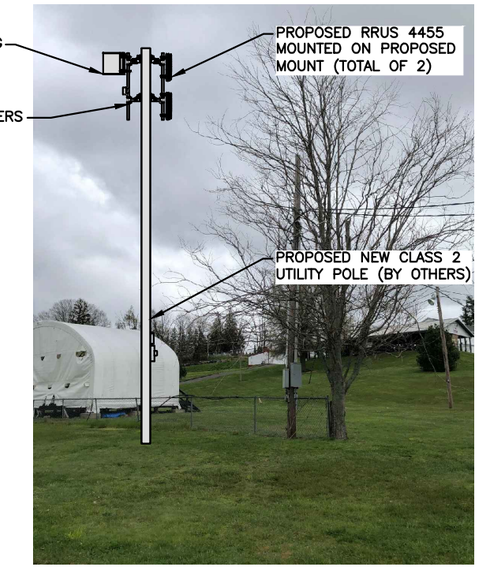

EXISTING CONDITIONS PHOTO DETAIL (2 / A-1)
SCALE: N.T.S

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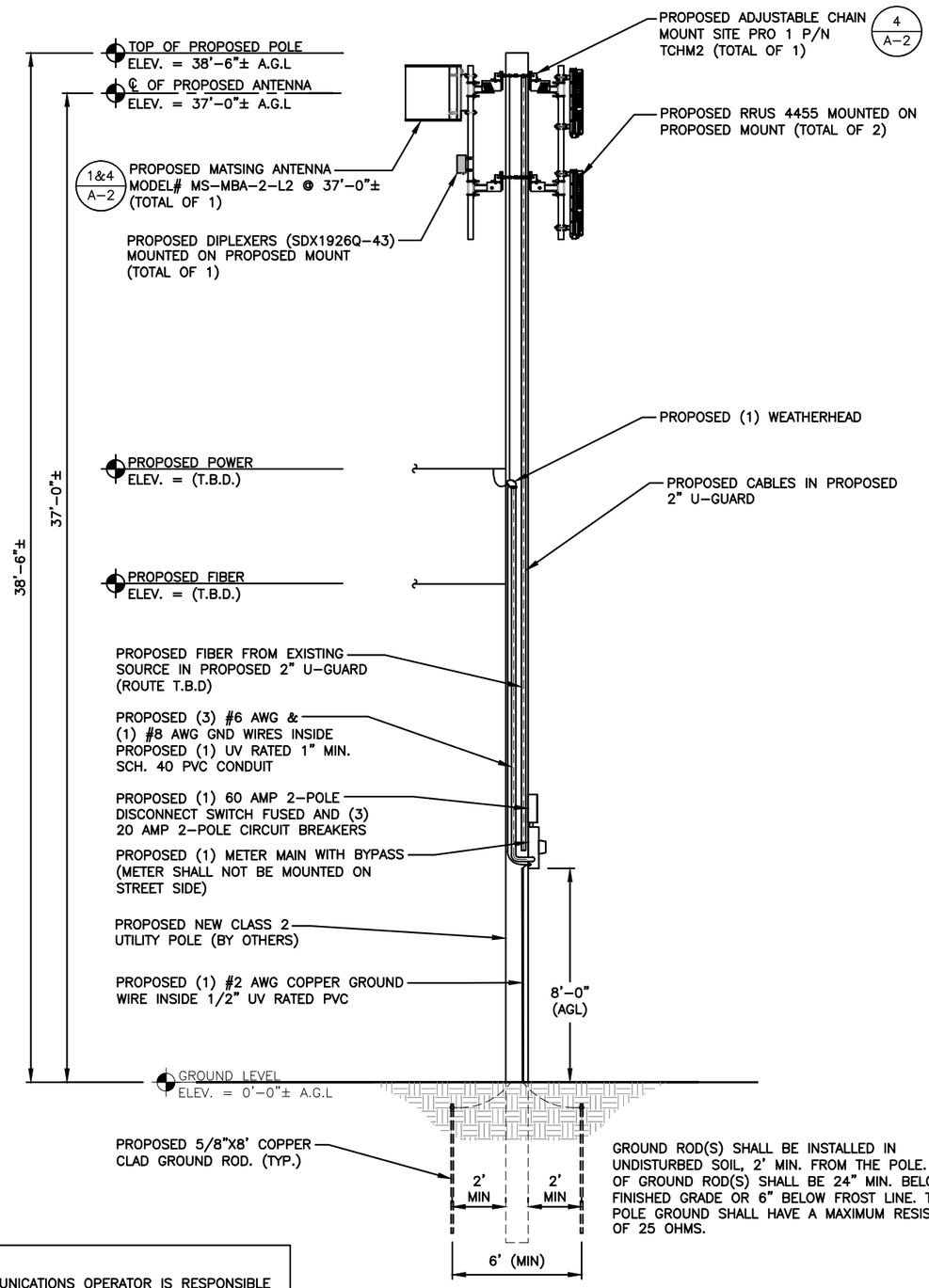

ELEVATION (3 / A-1)
22x34 SCALE: 3/8"=1'-0"
11x17 SCALE: 3/16"=1'-0"

GRAPHIC SCALE
0 1'-4" 2'-8" 5'-4" 8'-0"

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.

at&t
550 COCHITUATE ROAD
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KEY PLAN AND ELEVATION

SHEET NUMBER
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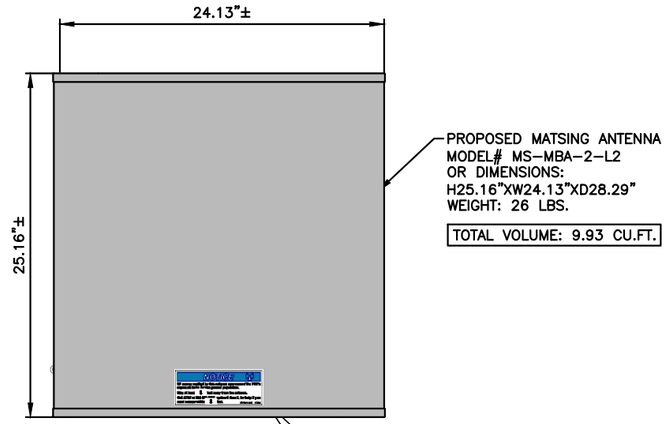
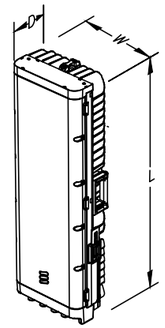


STONEHOUSE SIGNS INC. P/N RD899
SIGN DIMENSIONS 2.5"x6.5"
TWO NOTICE STICKERS MUST BE PLACED OPPOSITE EACH OTHER ON THE ANTENNA

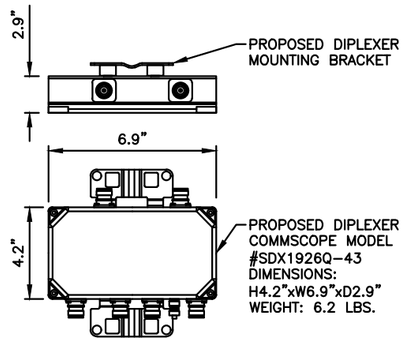
ANTENNA DETAIL 1 / A-2
SCALE: N.T.S



MODEL	QTY.	L	W	D	WGT.
4455	2	31.2"	10.8"	5.9"	57.3 LBS

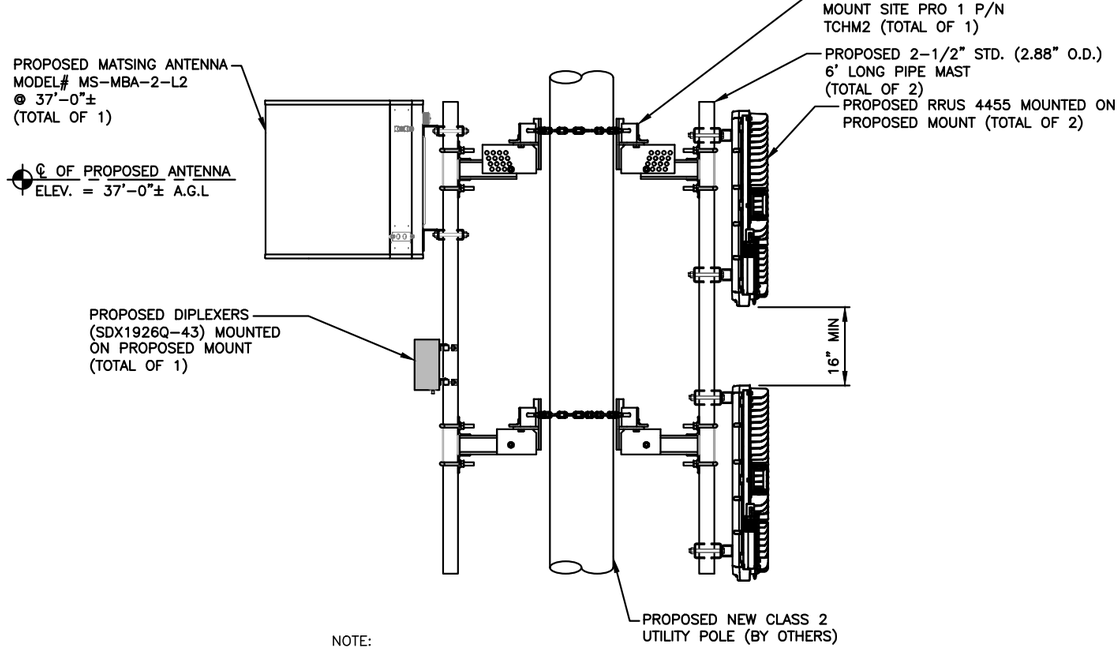
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

RRH DETAIL 2 / A-2
SCALE: N.T.S



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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

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FRAMINGHAM, MA 01701

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MIDDLESEX COUNTY

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-2

ATTACHMENT 2b

AT&T SITE ID: CRAN_RTCB_A1CT_204
24 TOWN HOUSE RD
DURHAM, CT 06422

FOR ZONING (NOT FOR CONSTRUCTION)

SHEET INDEX

SHEET NO.	DESCRIPTION	REV.
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C-1	SITE PLAN	1
A-1	KEY PLAN AND ELEVATION	1
A-2	EQUIPMENT DETAILS	1

PROJECT DESCRIPTION

1. INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON PROPOSED NEW 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.

PROJECT SUMMARY

SITE ADDRESS:	24 TOWN HOUSE RD DURHAM, CT 06422
COUNTY:	MIDDLESEX
LATITUDE:	41.470628° N
LONGITUDE:	72.684386° W
STRUCTURE TYPE:	NEW POLE
ARCHITECT/ENGINEER:	HUDSON DESIGN GROUP LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845

VICINITY MAP (NOT TO SCALE)

DRIVING DIRECTIONS

FROM ROCKY HILL, CT:

HEAD SOUTHEAST TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO STATE HWY 411. TURN LEFT TO MERGE ONTO I-91 S. MERGE ONTO I-91 S. TAKE EXIT 3 FOR TRUMBULL ST. CONTINUE ONTO TRUMBULL ST. CONTINUE ONTO TRUMBULL ST. TURN RIGHT ONTO LINCOLN ST. TURN LEFT AT THE 1ST CROSS STREET ONTO BRADLEY ST. TURN RIGHT ONTO WHITNEY AVE. TURN LEFT INTO SACHEM ST. TURN RIGHT ONTO PROSPECT ST. TURN LEFT, TURN LEFT.

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.

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550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET,
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WEST BRIDGEWATER, MA 02379

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

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

Daniel P. Hamm

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/03/22	ISSUED FOR REVIEW	MR
A	07/06/22	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:
CRAN_RCTB_A1CT_204

SITE ID:
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SITE ADDRESS:
24 TOWN HOUSE RD
DURHAM, CT 06422
MIDDLESEX COUNTY

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

APPROXIMATE COORDINATES:	LAT:	41.470628° N
	LONG:	72.684386° W

IMMEDIATE ADJOINING PROPERTY OWNER INFORMATION

PARCEL	OWNER	PHYSICAL ADDRESS	MAILING ADDRESS
48–7	TOWN OF DURHAM	MAPLE AVE. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
48–2	DURHAM AGRICULTURAL FAIR ASSOC	24 TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–3	TOWN OF DURHAM	30 TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
48–5	DURHAM AGRICULTURAL FAIR ASSOC	MAPLE ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–6	DURHAM AGRICULTURAL FAIR ASSOC	MAPLE ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–15	CORONA KATHLEEN N	17 JOHNS WAY DURHAM, CT 06422	17 JOHNS WAY DURHAM, CT 06422
48–16	BELTON AMANDA L TRUSTEE	21 MAPLE AVE. DURHAM, CT 06422	21 MAPLE AVE. DURHAM, CT 06422
48–17	GOSSNER KRISTINA L & MARK B	29 MAPLE AVE. DURHAM, CT 06422	29 MAPLE AVE. DURHAM, CT 06422

SITE PLAN (1 / C–1)
22x34 SCALE: 1"=200'
11x17 SCALE: 1"=400'

GRAPHIC SCALE
0 100 200 400 600 FEET

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

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SITE ID:
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SITE ADDRESS:
24 TOWN HOUSE RD
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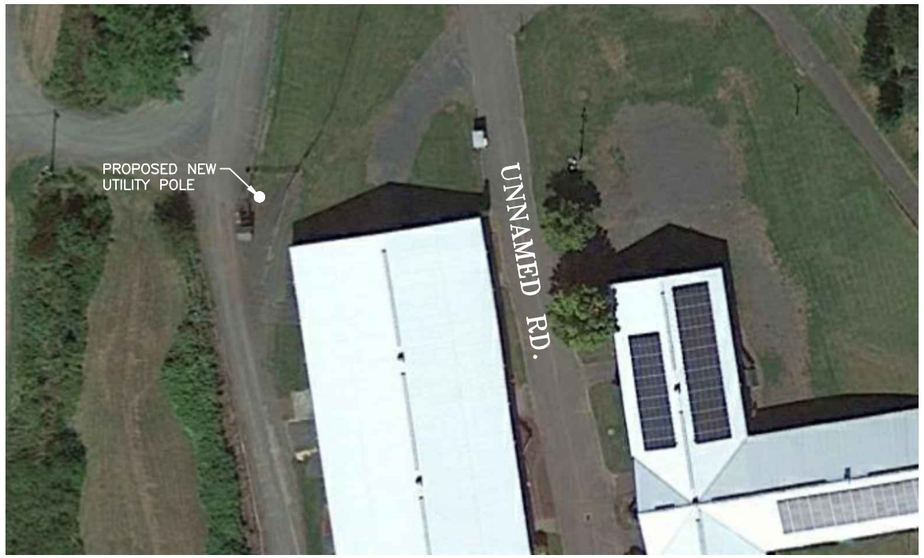
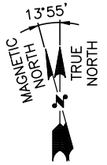
MIDDLESEX COUNTY

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1





KEY PLAN (1 / A–1)
22x34 SCALE: 1"=40'
11x17 SCALE: 1"=80'

GRAPHIC SCALE
0 20 40 80 120 FEET

PROPOSED ADJUSTABLE CHAIN MOUNT SITE PRO 1 P/N TCHM2 (TOTAL OF 1)

PROPOSED MATSING ANTENNA MODEL# MS–MBA–2–L2 @ 30'–0"± (TOTAL OF 2)

PROPOSED NEW CLASS 2 UTILITY POLE (BY OTHERS)

PROPOSED RRUS 4455 MOUNTED ON PROPOSED H–FRAME (TOTAL OF 4)

PROPOSED DIPLEXERS (SDX1926Q–43) MOUNTED ON PROPOSED H–FRAME (TOTAL OF 3)

EXISTING CONDITIONS PHOTO DETAIL (2 / A–1)
SCALE: N.T.S

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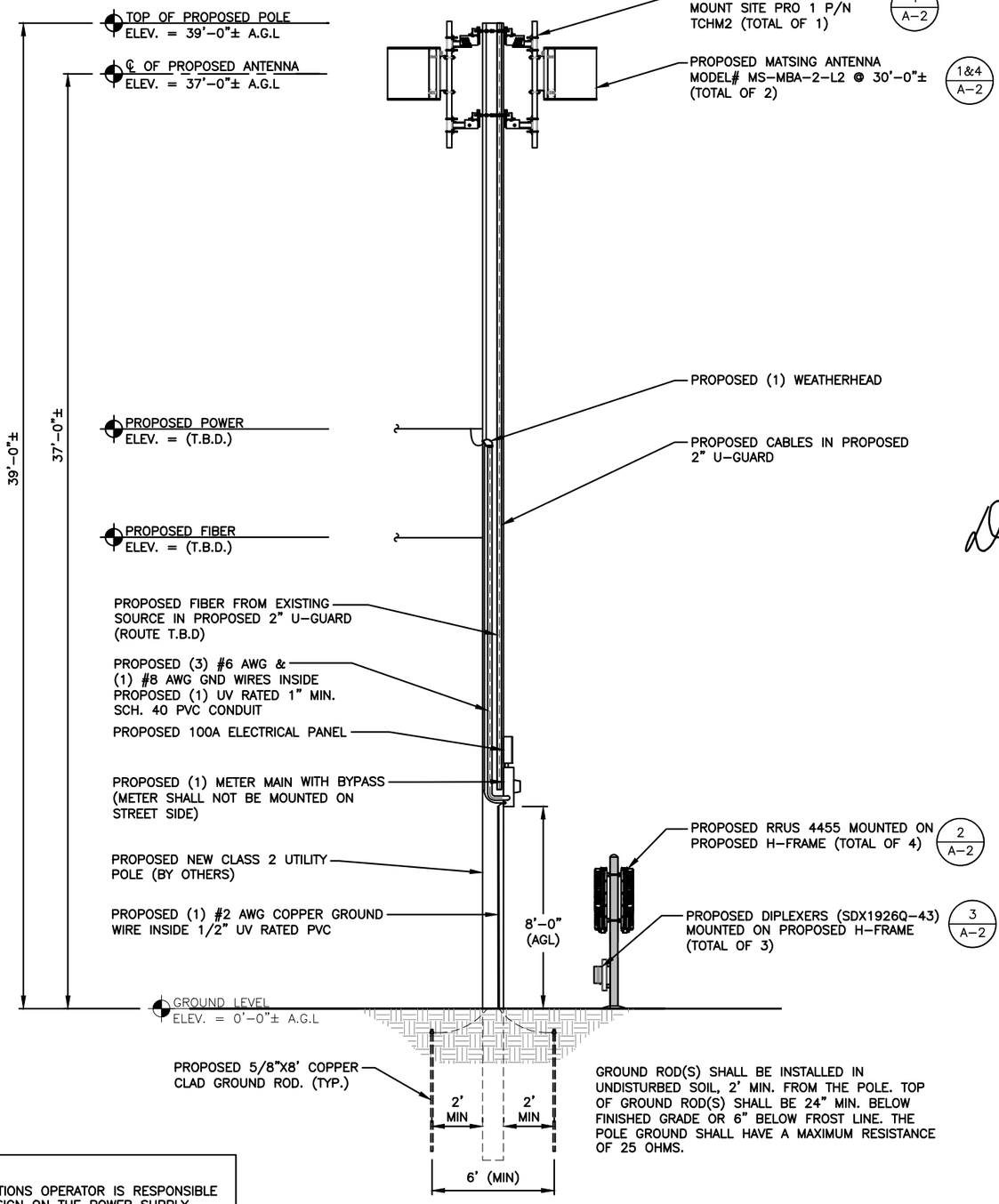

ELEVATION (3 / A–1)
22x34 SCALE: 3/8"=1'–0"
11x17 SCALE: 3/16"=1'–0"

GRAPHIC SCALE
0 1'–4" 2'–8" 5'–4" 8'–0"

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.

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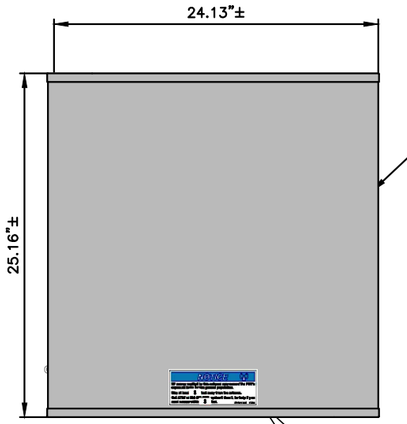
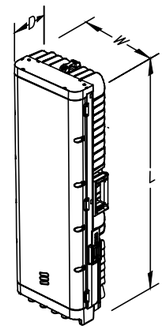
SHEET TITLE
KEY PLAN AND ELEVATION

SHEET NUMBER
A-1



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

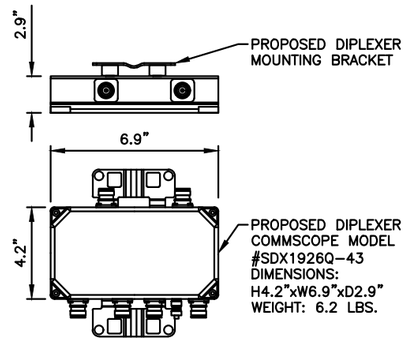
ANTENNA DETAIL (1 / A-2)
SCALE: N.T.S



MODEL	QTY.	L	W	D	WGT.
4455	4	31.2"	10.8"	5.9"	57.3 LBS

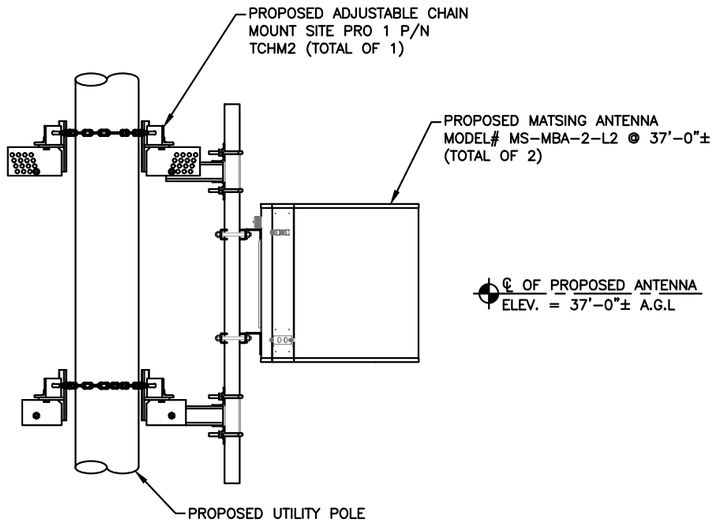
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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



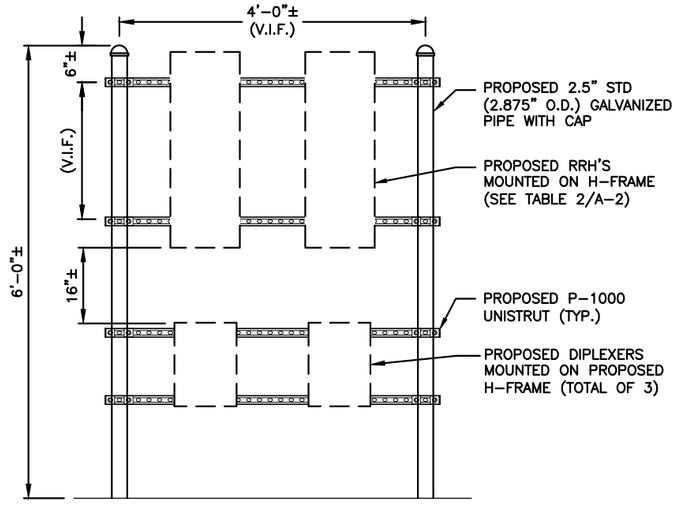
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

ANTENNA MOUNT DETAIL (4 / A-2)
SCALE: N.T.S



H-FRAME DETAIL (5 / A-2)
22x34 SCALE: N.T.S

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MIDDLESEX COUNTY

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-2

ATTACHMENT 2c

AT&T SITE ID: CRAN_RTCB_A1CT_109
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A-1	KEY PLAN AND ELEVATION	1
A-2	EQUIPMENT DETAILS	1

PROJECT DESCRIPTION

1. INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON PROPOSED NEW POLE.
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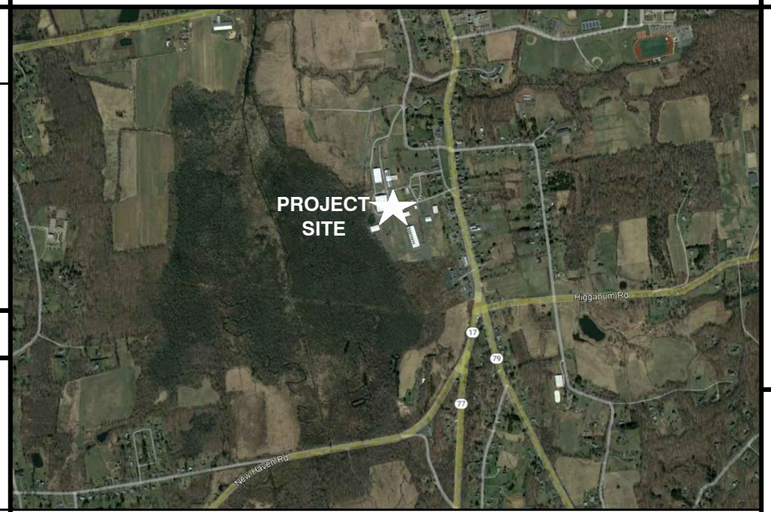
PROJECT SUMMARY

SITE ADDRESS:	24 TOWN HOUSE RD DURHAM, CT 06422
COUNTY:	MIDDLESEX
LATITUDE:	41.467882° N
LONGITUDE:	72.681727° W
STRUCTURE TYPE:	NEW POLE
ARCHITECT/ENGINEER:	HUDSON DESIGN GROUP LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845

VICINITY MAP (NOT TO SCALE)



DRIVING DIRECTIONS

FROM ROCKY HILL, CT:

HEAD SOUTHEAST TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO STATE HWY 411. TURN LEFT TO MERGE ONTO I-91 S. MERGE ONTO I-91 S. TAKE EXIT 3 FOR TRUMBULL ST. CONTINUE ONTO TRUMBULL ST. CONTINUE ONTO TRUMBULL ST. TURN RIGHT ONTO LINCOLN ST. TURN LEFT AT THE 1ST CROSS STREET ONTO BRADLEY ST. TURN RIGHT ONTO WHITNEY AVE. TURN LEFT INTO SACHEM ST. TURN RIGHT ONTO PROSPECT ST. TURN LEFT, TURN LEFT.

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SHEET TITLE
TITLE SHEET

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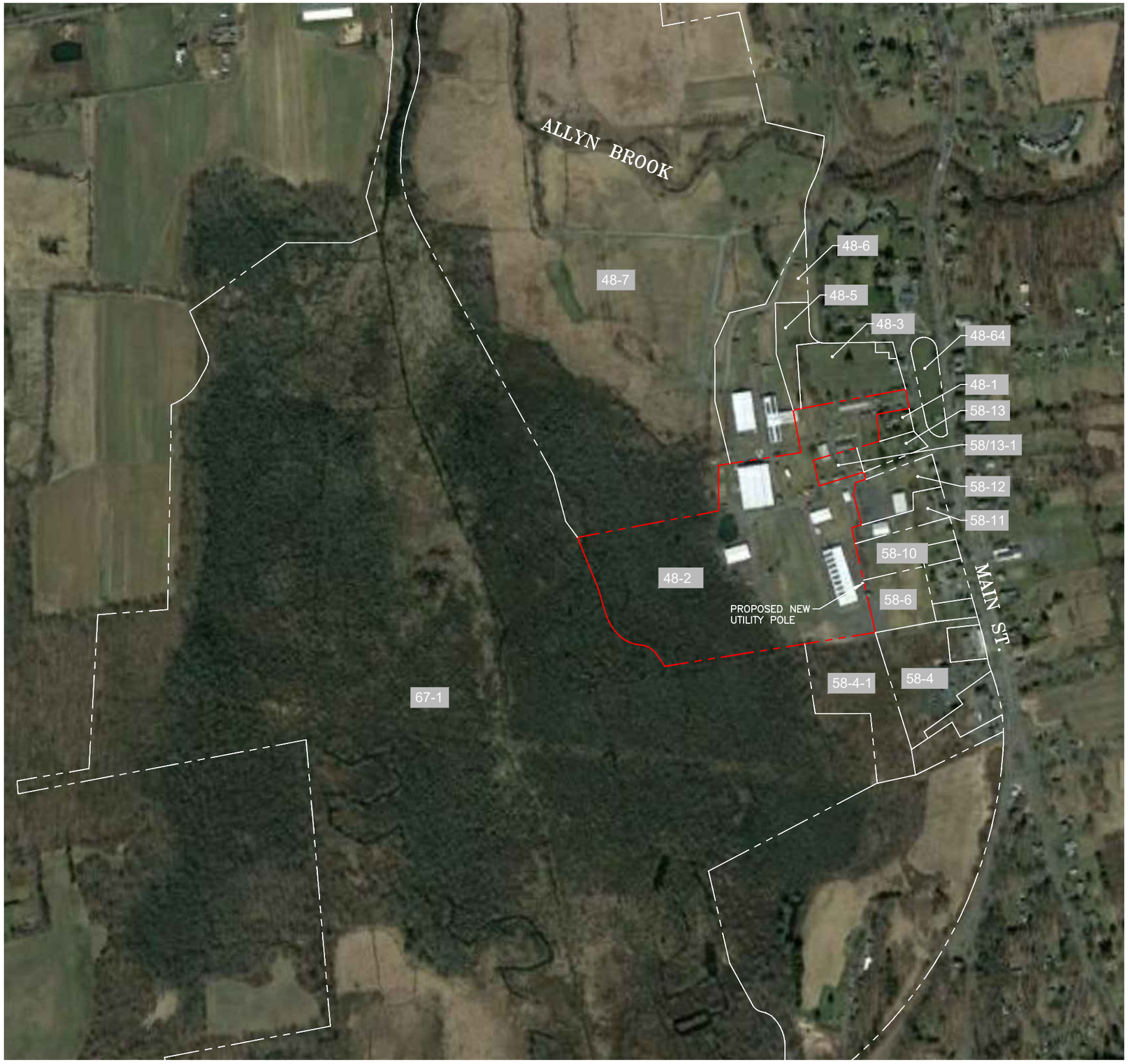

APPROXIMATE COORDINATES:	LAT:	41.467882° N
	LONG:	72.681727° W

SITE PLAN (1 / C-1)

22x34 SCALE: 1"=300'
11x17 SCALE: 1"=600'

GRAPHIC SCALE
0 150 300 600 900 FEET

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SHEET TITLE
SITE PLAN

SHEET NUMBER
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IMMEDIATE ADJOINING PROPERTY OWNER INFORMATION

PARCEL	OWNER	PHYSICAL ADDRESS	MAILING ADDRESS
67–1	STATE OF CONNECTICUT	PARMELEE HILL RD DURHAM, CT 06422	79 ELM ST HARTFORD, CT06115
48–7	TOWN OF DURHAM	MAPLE AVE. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
58–4–1	TOWN OF DURHAM	MAIN ST. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
58–4	LAMOS LLC	16 MAIN ST. DURHAM, CT 06422	P.O. BOX 120111 EAST HAVEN, CT 06512
58–6	DURHAM AGRICULTURAL FAIR ASSOC	MAIN ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
58–10	DURHAM AGRICULTURAL FAIR ASSOC	52 MAIN ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
58–11	DURHAM AGRICULTURAL FAIR ASSOC	62 MAIN ST. DURHAM, CT 06422	24 TOWNHOUSE RD. DURHAM, CT 06422
58–12	DURHAM AGRICULTURAL FAIR ASSOC	68 MAIN ST. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
58–13	EAMES ADELE M & GEORGE M 3RD	10 TOWN HOUSE RD. DURHAM, CT 06422	10 TOWN HOUSE RD. DURHAM, CT 06422
58/13–1	DURHAM AGRICULTURAL FAIR ASSOC	TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–1	SALVA CHERYL N	18 TOWN HOUSE RD. DURHAM, CT 06422	18 TOWN HOUSE RD. DURHAM, CT 06422
48–2	DURHAM AGRICULTURAL FAIR ASSOC	24 TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 225 DURHAM, CT 06422
48–64	TOWN OF DURHAM	TOWN HOUSE RD. DURHAM, CT 06422	P.O. BOX 428 DURHAM, CT 06422
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ABUTTER LIST

22x34 SCALE: 1"=80'
11x17 SCALE: 1"=160'

1 / C–2

GRAPHIC SCALE
0 40 80 160 240 FEET

at&t
550 COCHITUATE ROAD
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ABUTTER LIST

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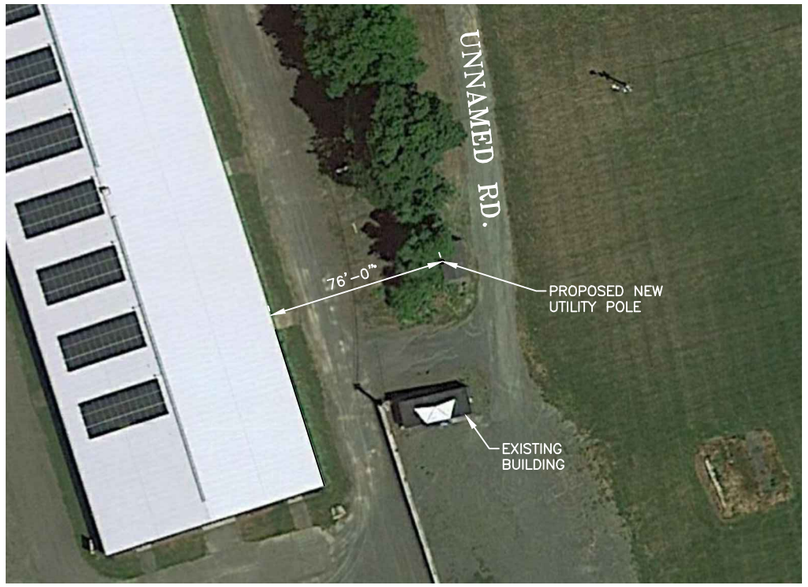
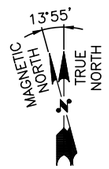
	LONG:	72.681727° W

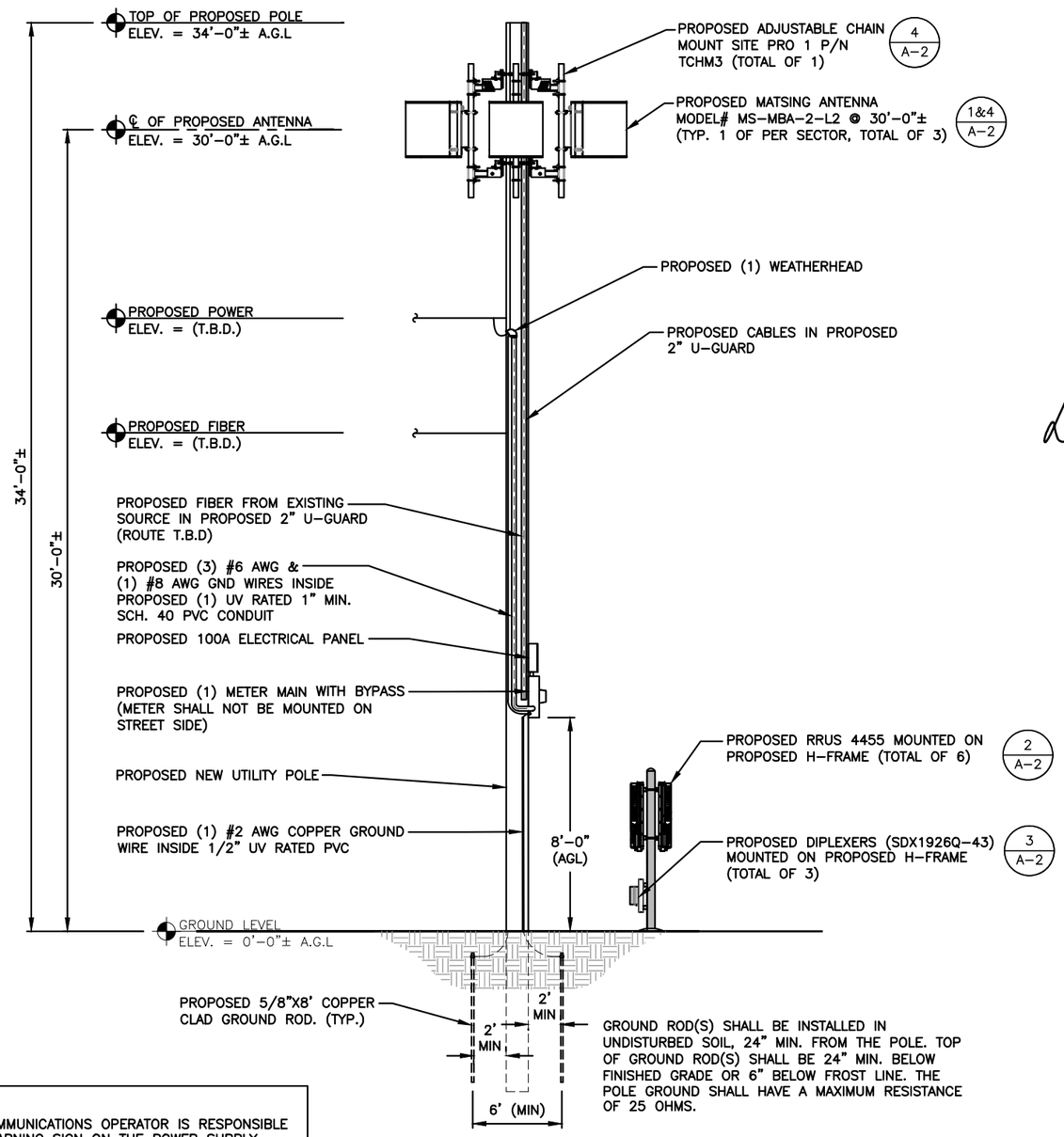




KEY PLAN (1 / A-1)
22x34 SCALE: 1"=30'
11x17 SCALE: 1"=60'

GRAPHIC SCALE
0 15 30 60 90 FEET

EXISTING CONDITIONS PHOTO DETAIL (2 / A-1)
SCALE: N.T.S



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

GRAPHIC SCALE
0 1'-4" 2'-8" 5'-4" 8'-0"

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.

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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

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

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

Daniel P. Hamm

CHECKED BY:	AT
APPROVED BY:	DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/03/22	ISSUED FOR REVIEW	MR
A	07/05/22	ISSUED FOR REVIEW	MR

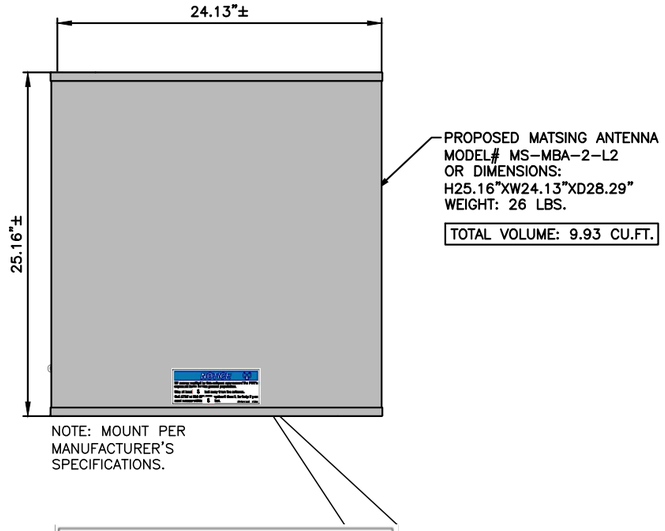
CLUSTER AND NODE NUMBER:
CRAN_RCTB_A1CT_109

SITE ID:
CRAN_RTCB_A1CT_109

SITE ADDRESS:
24 TOWN HOUSE RD
DURHAM, CT 06422
MIDDLESEX COUNTY

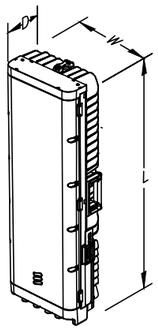
SHEET TITLE
KEY PLAN AND ELEVATION

SHEET NUMBER
A-1



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

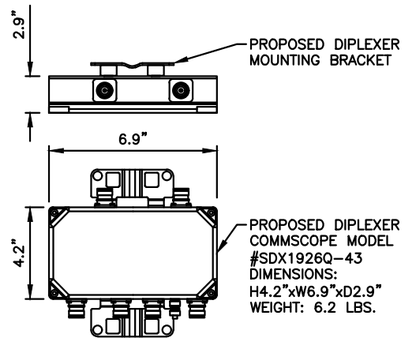
ANTENNA DETAIL 1 / A-2
SCALE: N.T.S



MODEL	QTY.	L	W	D	WGT.
4455	6	31.2"	10.8"	5.9"	57.3 LBS

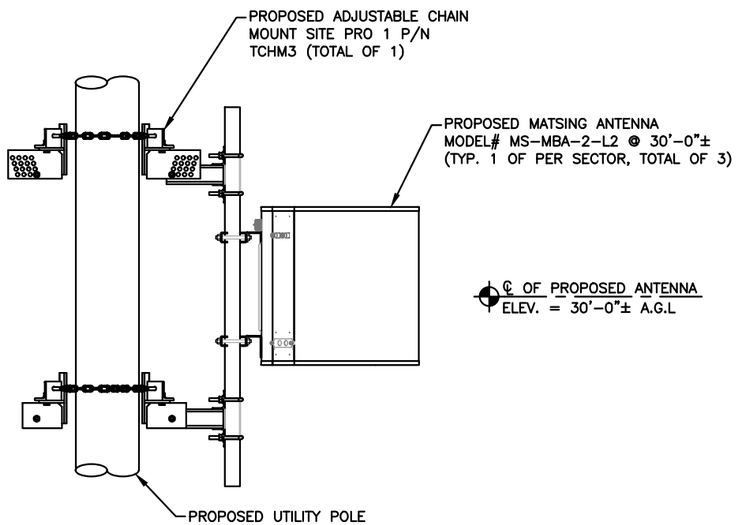
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

RRH DETAIL 2 / A-2
SCALE: N.T.S



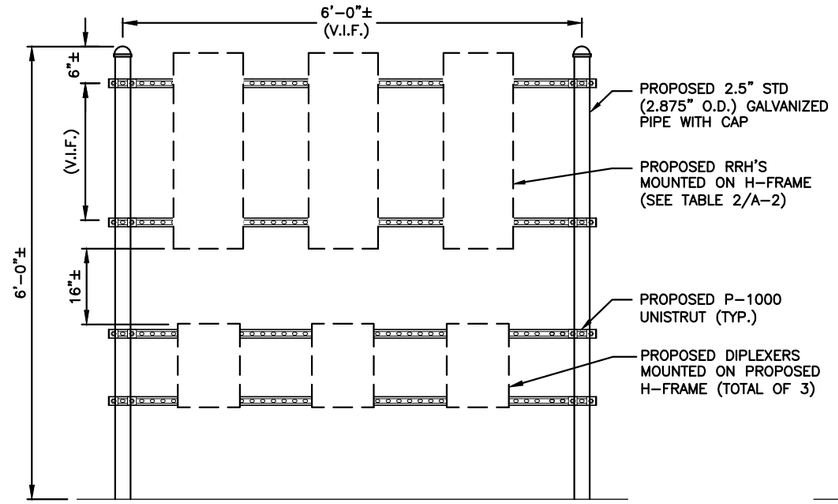
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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



H-FRAME DETAIL 5 / A-2
22x34 SCALE: N.T.S

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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

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

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

Daniel P. Hamm

CHECKED BY:	AT
APPROVED BY:	DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/03/22	ISSUED FOR REVIEW	MR
A	07/05/22	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:
CRAN_RCTB_A1CT_109

SITE ID:
CRAN_RTCB_A1CT_109

SITE ADDRESS:
24 TOWN HOUSE RD
DURHAM, CT 06422
MIDDLESEX COUNTY

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-2

ATTACHMENT 3

ATTACHMENT 3a

STRUCTURAL ANALYSIS REPORT

For

CRAN_RCTB_A1CT_205

62 Main Street
Durham, CT 06422

Equipment Mounted on Proposed Utility Pole

Prepared for:

CENTERLINE COMMUNICATIONS

at&t

Dated: August 15, 2022

HUDSON Design Group LLC

45 Beechwood Drive
North Andover, MA 01845
Phone: (978) 557-5553
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 utility 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 did not conduct an on-site visual survey of the above site.

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 utility pole structure is rated at 16.0%.

APPURTENANCES CONFIGURATION:

Appurtenances	Elevation	Mount
(1) MS-MBA-2-L2 Antenna	37'-0"	Side of Wood Pole
(2) 4455 RRH's	37'-0", 33'-0"	Side of Wood Pole
(1) SDX1926Q-43 Diplexer	34'-8"	Side of Wood Pole
(1) Demarc Box	23'-6"	Side of Wood Pole
(1) Disconnect Switch	10'-9"	Side of Wood Pole
(1) Electric Meter	8'-9"	Side of Wood Pole

* Proposed equipment shown in bold.

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft.)	Pass/Fail
SP 2 (Proposed)	**16.0%**	**0 – 38.5**	**PASS**

DESIGN CRITERIA:

National Electric Safety Code 2017 (NESC) and International Building Code (IBC) 2015 with 2018 Connecticut State Building Code Amendments.		
Wind		
City/Town:	Durham	
County:	Middlesex	
NESC Rule	Rule 250B	NESC Section 25
Construction Grade	C	NESC Section 25
Wind Load:	39.53 mph	NESC Table 230-2
Ice		
Loading District	Heavy	NESC Figure 250-1
Radial Ice Thickness:	0.50 in	NESC Table 230-1

1. Approximate height above grade to center of the proposed antenna: 37'-0" +/-

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

PROPOSED STRUCTURE:

The proposed 38'-6" +/- wood pole is assumed to be Southern Pine Class 2 (Fb = 8000 psi) with a 12.89" diameter 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/RRH/DIPLEXER SUPPORT RECOMMENDATIONS:

The proposed antenna, RRH's, and diplexer are to be mounted on a proposed pipe mast installed on the proposed wood pole with chain mounts.

EQUIPMENT SUPPORT RECOMMENDATIONS:

The proposed equipment is to be installed on the wood pole using the approved manufacturer's mounts.

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 locations of the proposed wood pole.

HUDSON
Design Group LLC

Calculations

PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group

Version 7.4.14

POLE LOADING DATA

Pole: 45/2 (Wood-Cylindrical)

Soil: None

Pole Loading
Horizontal: 16% (250B)
Vertical: 15% (k=1.20)

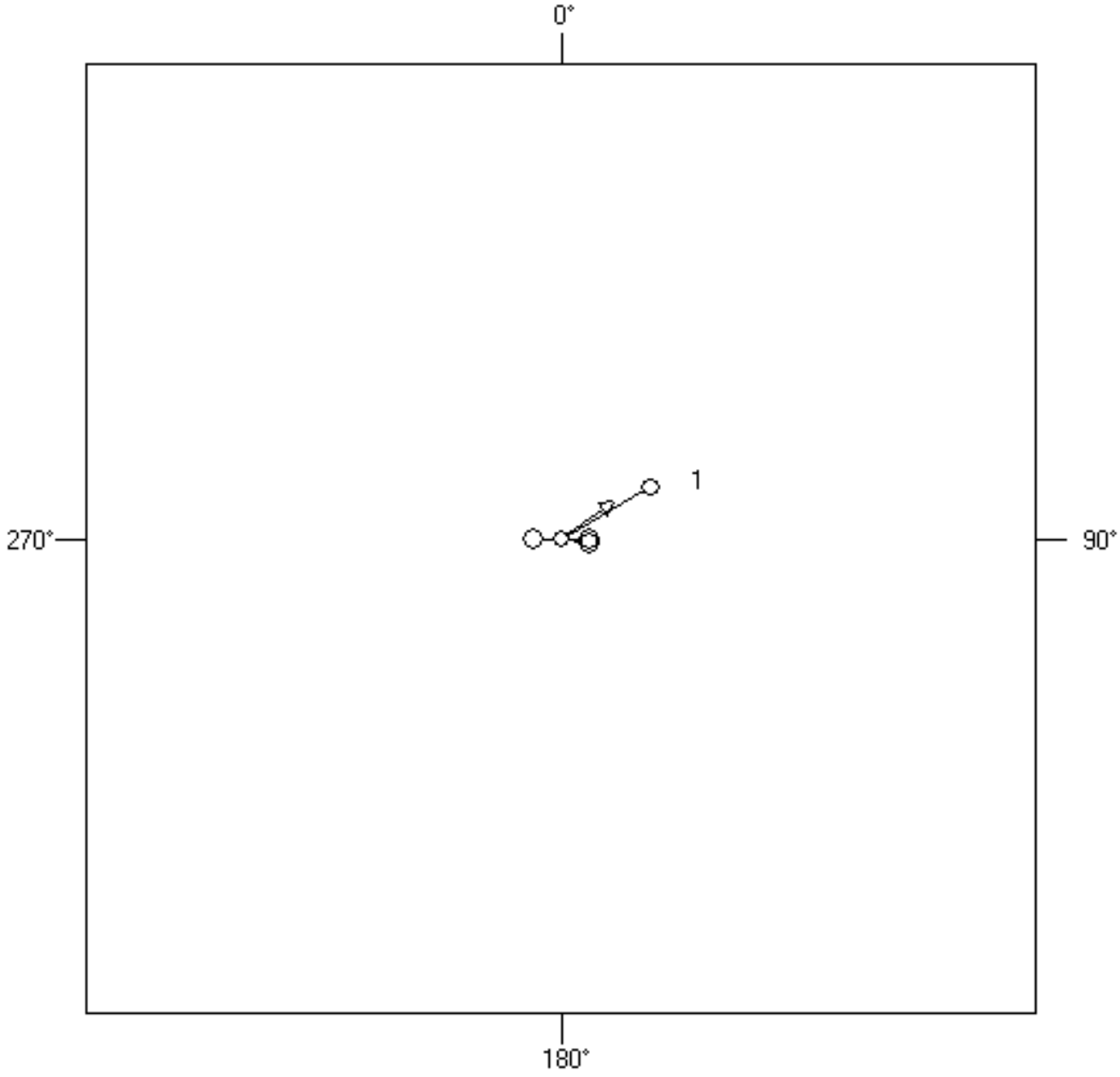
NESC Edition: 2017
Loading District: Heavy
Construction: Grade C (Crossing)

Rule 250B: Temp=0F, Wind=4 psf, Ice=0.5 in

POLES

Pole #	Length (ft)	Depth (ft)	Elevation (ft)
0	45	6.5	0
1	45	6.5	0

POLE LINE TOPOLOGY



INSULATORS

Insulator	Attach	Loading	Angle
Spool Tangent	150"	11%	0°

ARM / BRACKET DATA

Arm/Bracket	Attach	Vert Loading	Horz Loading

SPANS

Span: 1 **Span Length (ft): 30** **Direction: 60°**

Secondary					
4 ACSR (7/1)	50	0	150	150	120

Joint Use

Joint Use Cable	Ruling Span (ft)	Diameter (in)	Weight (lbs/ft)	Attach A (in)	Offset (in)	Attach B (in)	Tension (lbs)	Description
User Defined	0	0.38	0.27	174	0	174	60	

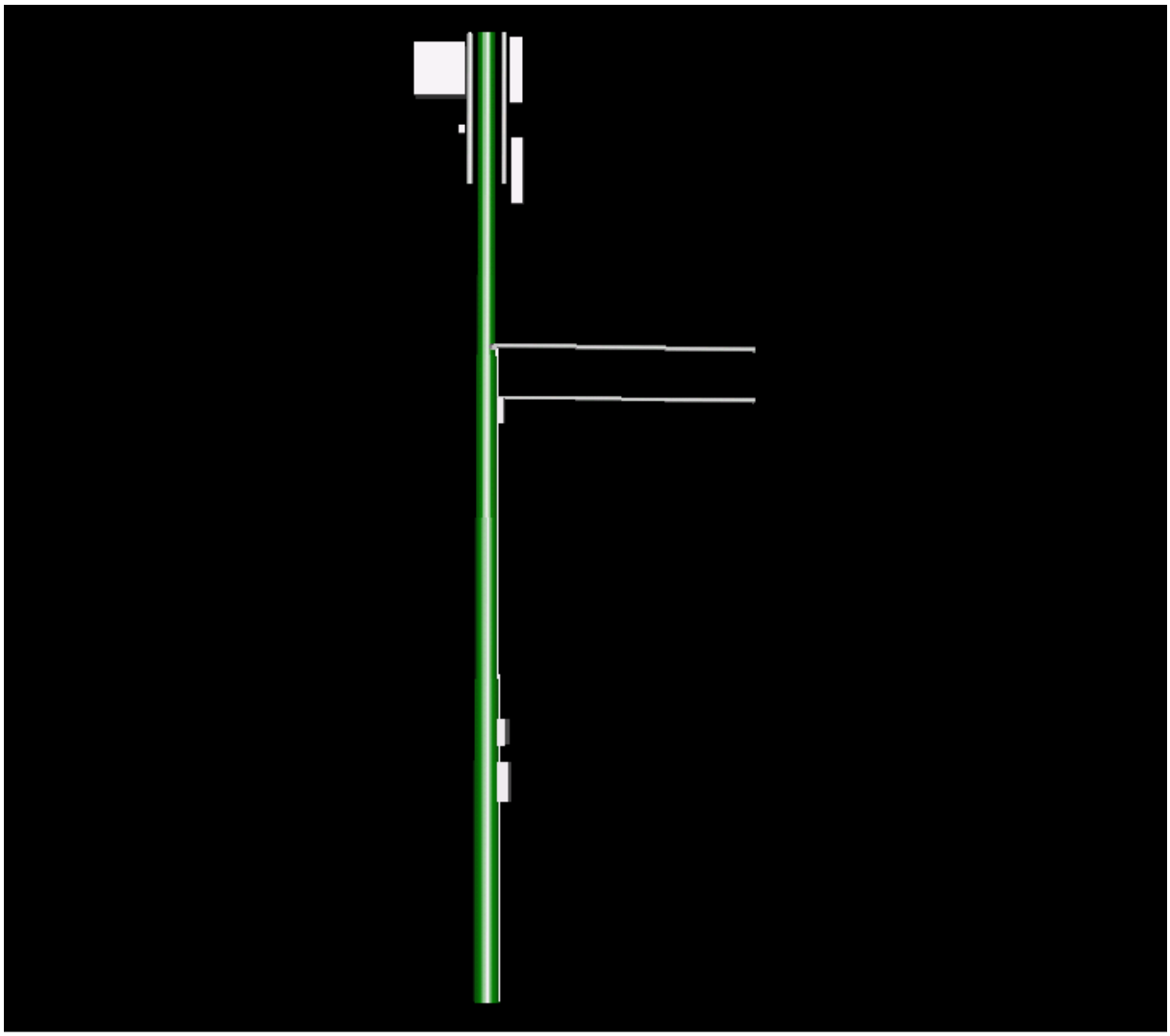
EQUIPMENT

Equipment	Weight (lbs)	Attach (in)	Direction
User Defined Equipment	3.0	180	100°
User Defined Equipment	57.3	18	90°
User Defined Equipment	17.0	333	100°
User Defined Equipment	26.0	18	270°
User Defined Equipment	6.2	46	270°
User Defined Equipment	15.0	357	100°
User Defined Equipment	34.8	36	270°
User Defined Equipment	34.8	36	90°
User Defined Equipment	57.3	66	90°

RISERS

Riser	Length (ft)	Direction
2" Riser - Secondary	26	55°

Solid Model View



ATTACHMENT 3b

STRUCTURAL ANALYSIS REPORT

For

CRAN_RCTB_A1CT_204

28 Main Street
Durham, CT 06422

Equipment Mounted on Proposed Utility Pole

Prepared for:

CENTERLINE COMMUNICATIONS

at&t

Dated: August 17, 2022

HDG HUDSON Design Group LLC

45 Beechwood Drive
North Andover, MA 01845
Phone: (978) 557-5553
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 utility 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 did not conduct an on-site visual survey of the above site.

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 utility pole structure is rated at 16.0%.

APPURTENANCES CONFIGURATION:

Appurtenances	Elevation	Mount
(2) MS-MBA-2-L2 Antennas	37'-0"	Side of Wood Pole
(1) Electric Panel	10'-9"	Side of Wood Pole
(1) Electric Meter	8'-9"	Side of Wood Pole
(4) 4455 RRH's	5'-0"	Separate Mount
(3) SDX1926Q-43 Diplexers	2'-0"	Separate Mount

*Proposed equipment shown in bold.

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft.)	Pass/Fail
SP 2 (Proposed)	**16.0%**	**0 – 39.0**	**PASS**

HUDSON Design Group LLC

DESIGN CRITERIA:

National Electric Safety Code 2017 (NESC) and International Building Code (IBC) 2015 with 2018 Connecticut State Building Code Amendments.		
Wind		
City/Town:	Durham	
County:	Middlesex	
NESC Rule	Rule 250B	NESC Section 25
Construction Grade	C	NESC Section 25
Wind Load:	39.53 mph	NESC Table 230-2
Ice		
Loading District	Heavy	NESC Figure 250-1
Radial Ice Thickness:	0.50 in	NESC Table 230-1

1. Approximate height above grade to center of the proposed antennas: 37'-0" +/-

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

PROPOSED STRUCTURE:

The proposed 39'-0" +/- wood pole is assumed to be Southern Pine Class 2 (Fb = 8000 psi) with a 12.89" diameter 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 proposed antennas are to be mounted on a proposed pipe mast installed on the proposed wood pole with chain mounts.

RRH/DIPLEXER SUPPORT RECOMMENDATIONS:

The proposed RRH's and diplexers are to be mounted on proposed unistrut components installed on a proposed H-Frame located on the ground.

EQUIPMENT SUPPORT RECOMMENDATIONS:

The proposed equipment is to be installed on the wood pole using the approved manufacturer's mounts.

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 location of the proposed wood pole.

HUDSON
Design Group LLC

Calculations

PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group

Version 7.4.14

POLE LOADING DATA

Pole: 45/2 (Wood-Cylindrical)

Soil: None

Pole Loading
Horizontal: 16% (250B)
Vertical: 15% (k=1.20)

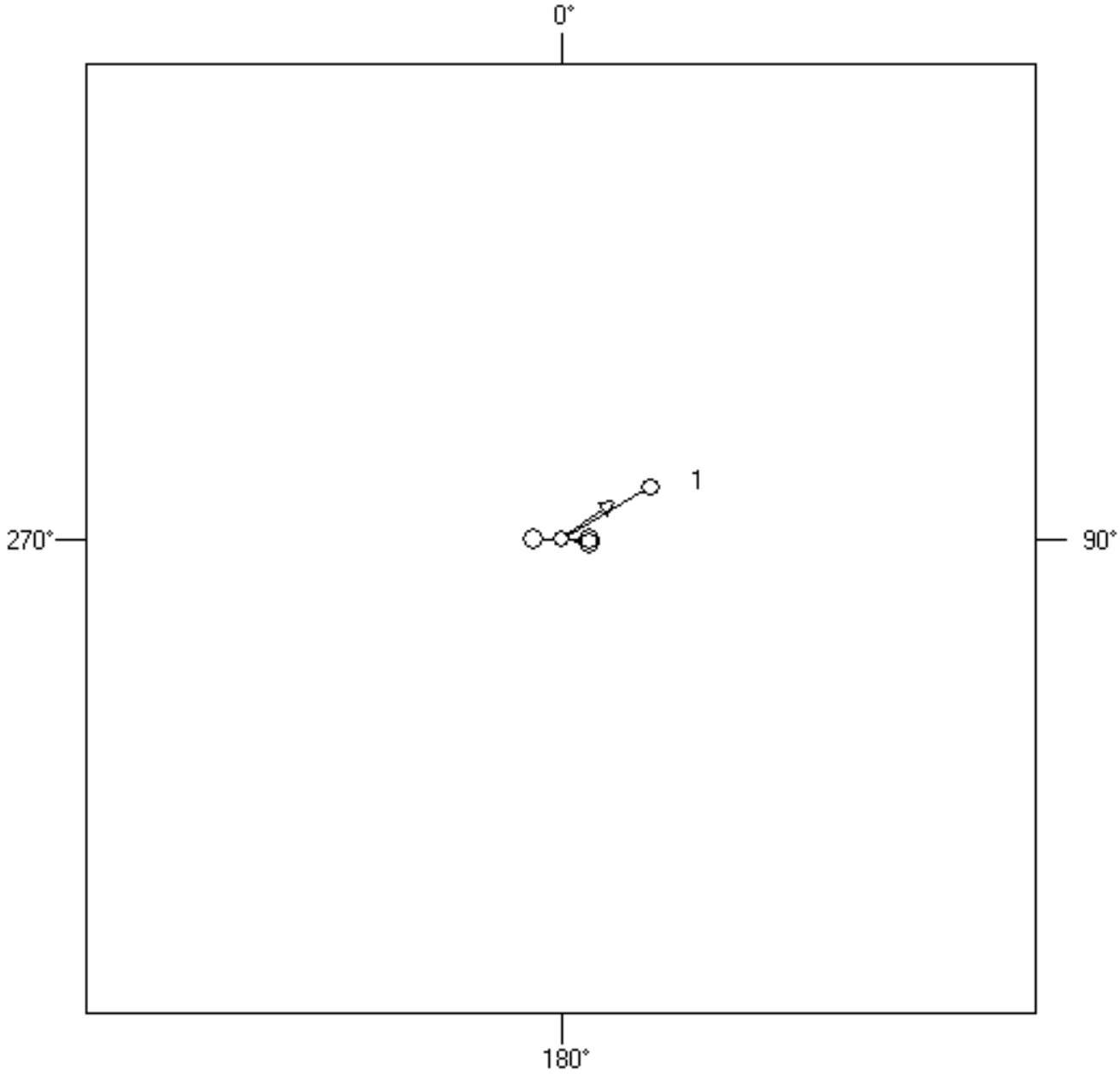
NESC Edition: 2017
Loading District: Heavy
Construction: Grade C (Crossing)

Rule 250B: Temp=0F, Wind=4 psf, Ice=0.5 in

POLES

Pole #	Length (ft)	Depth (ft)	Elevation (ft)
0	45	6	0
1	45	6.5	0

POLE LINE TOPOLOGY



PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group Version 7.4.14

INSULATORS

Insulator	Attach	Loading	Angle
Spool Tangent	150"	11%	0°

ARM / BRACKET DATA

Arm/Bracket	Attach	Vert Loading	Horz Loading

SPANS

Span: 1 **Span Length (ft): 30** **Direction: 60°**

Secondary					
4 ACSR (7/1)	50	0	150	150	120

Joint Use

Joint Use Cable	Ruling Span (ft)	Diameter (in)	Weight (lbs/ft)	Attach A (in)	Offset (in)	Attach B (in)	Tension (lbs)	Description
User Defined	0	0.38	0.27	180	0	174	60	

EQUIPMENT

Equipment	Weight (lbs)	Attach (in)	Direction
User Defined Equipment	34.8	42	270°
User Defined Equipment	26.0	24	90°
User Defined Equipment	17.0	339	100°
User Defined Equipment	26.0	24	270°
User Defined Equipment	34.8	42	90°
User Defined Equipment	15.0	363	100°

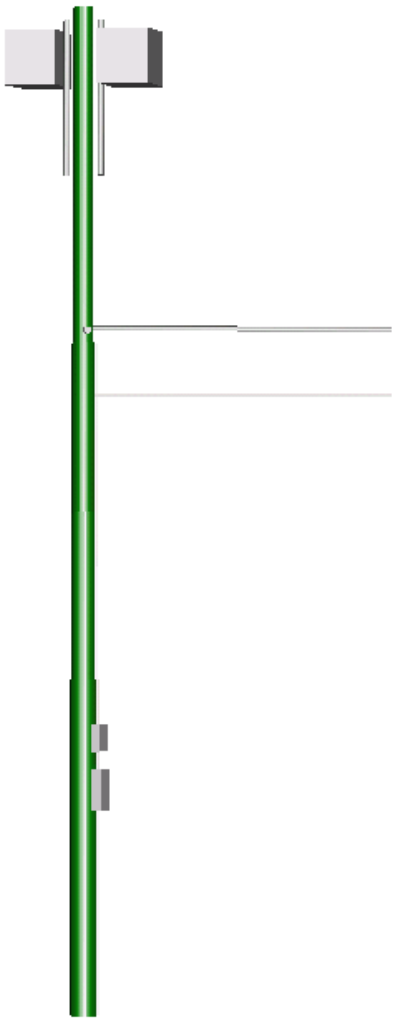
RISERS

Riser	Length (ft)	Direction
2" Riser - Secondary	26	55°

PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group Version 7.4.14

Solid Model View



ATTACHMENT 3c

STRUCTURAL ANALYSIS REPORT

For

CRAN_RCTB_A1CT_109

28 Main Street
Durham, CT 06422

Equipment Mounted on Proposed Utility Pole

Prepared for:

CENTERLINE COMMUNICATIONS

at&t

Dated: August 17, 2022

STATE OF CONNECTICUT
DANIEL HAMM
LICENSED
PROFESSIONAL ENGINEER

HUDSON Design Group LLC

45 Beechwood Drive
North Andover, MA 01845
Phone: (978) 557-5553
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 utility 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 did not conduct an on-site visual survey of the above site.

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 utility pole structure is rated at 18.0%.

APPURTENANCES CONFIGURATION:

Appurtenances	Elevation	Mount
(3) MS-MBA-2-L2 Antennas	30'-0"	Side of Wood Pole
(1) Electric Panel	10'-9"	Side of Wood Pole
(1) Electric Meter	8'-9"	Side of Wood Pole
(6) 4455 RRH's	5'-0"	Separate Mount
(3) SDX1926Q-43 Diplexers	2'-0"	Separate Mount

*Proposed equipment shown in bold.

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft.)	Pass/Fail
SP 2 (Proposed)	**18.0%**	**0 – 34.0**	**PASS**

DESIGN CRITERIA:

National Electric Safety Code 2017 (NESC) and International Building Code (IBC) 2015 with 2018 Connecticut State Building Code Amendments.		
Wind		
City/Town:	Durham	
County:	Middlesex	
NESC Rule	Rule 250B	NESC Section 25
Construction Grade	C	NESC Section 25
Wind Load:	39.53 mph	NESC Table 230-2
Ice		
Loading District	Heavy	NESC Figure 250-1
Radial Ice Thickness:	0.50 in	NESC Table 230-1

1. Approximate height above grade to center of the proposed antennas: 30'-0" +/-

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

PROPOSED STRUCTURE:

The proposed 34'-0" +/- wood pole is assumed to be Southern Pine Class 2 (Fb = 8000 psi) with a 12.25" diameter 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 proposed antennas are to be mounted on a proposed pipe mast installed on the proposed wood pole with chain mounts.

RRH/DIPLEXER SUPPORT RECOMMENDATIONS:

The proposed RRH's and diplexers are to be mounted on proposed unistrut components installed on a proposed H-Frame located on the ground.

EQUIPMENT SUPPORT RECOMMENDATIONS:

The proposed equipment is to be installed on the wood pole using the approved manufacturer's mounts.

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 location of the proposed wood pole.

HUDSON
Design Group LLC

Calculations

PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group

Version 7.4.14

POLE LOADING DATA

Pole: 40/2 (Wood-Cylindrical)

Soil: None

Pole Loading
Horizontal: 18% (250B)
Vertical: 9% (k=1.20)

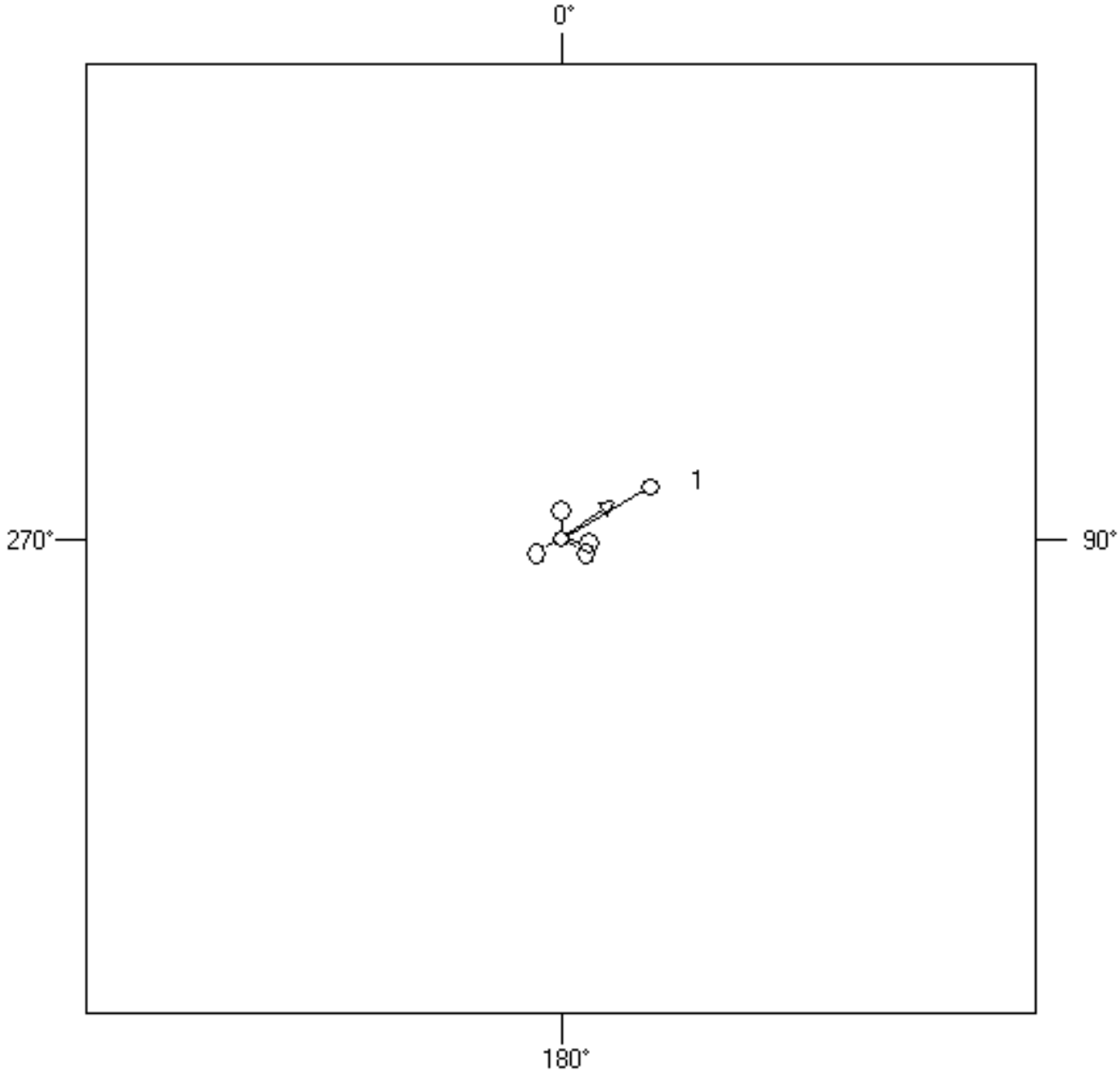
NESC Edition: 2017
Loading District: Heavy
Construction: Grade C (Crossing)

Rule 250B: Temp=0F, Wind=4 psf, Ice=0.5 in

POLES

Pole #	Length (ft)	Depth (ft)	Elevation (ft)
0	40	6	0
1	45	6.5	0

POLE LINE TOPOLOGY



PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group Version 7.4.14

INSULATORS

Insulator	Attach	Loading	Angle
Spool Tangent	144"	13%	0°

ARM / BRACKET DATA

Arm/Bracket	Attach	Vert Loading	Horz Loading

SPANS

Span: 1 **Span Length (ft): 30** **Direction: 60°**

Secondary					
4 ACSR (7/1)	50	0	144	144	120

Joint Use

Joint Use Cable	Ruling Span (ft)	Diameter (in)	Weight (lbs/ft)	Attach A (in)	Offset (in)	Attach B (in)	Tension (lbs)	Description
User Defined	0	0.38	0.27	192	0	246	60	

EQUIPMENT

Equipment	Weight (lbs)	Attach (in)	Direction
User Defined Equipment	34.8	48	0°
User Defined Equipment	15.0	303	100°
User Defined Equipment	17.0	279	100°
User Defined Equipment	26.0	48	120°
User Defined Equipment	34.8	48	120°
User Defined Equipment	34.8	48	240°
User Defined Equipment	26.0	48	240°
User Defined Equipment	26.0	48	0°

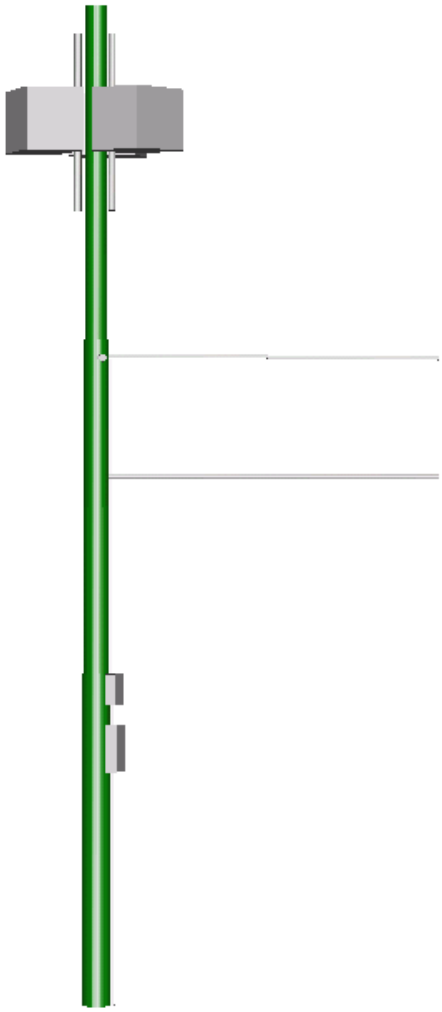
RISERS

Riser	Length (ft)	Direction
2" Riser - Secondary	22	55°

PoleForeman - Pole Loading Analysis Report

License: Hudson Design Group Version 7.4.14

Solid Model View



ATTACHMENT 4

ATTACHMENT 4a

Prepared For:
CENTERLINE-AT&T
Site Number:
CRAN_RCTB_A1CT_205
Site Name:
CRAN_RCTB_A1CT_205

62 MAIN STREET
DURHAM, CT 06422

SITE NO:	CRAN_RCTB_A1CT_205
SITE NAME:	CRAN_RCTB_A1CT_205
ADDRESS:	62 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

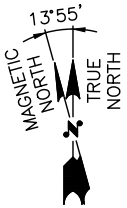
HDG HUDSON Design Group LLC
45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SITE TYPE: UTILITY POLE	
DATE: 06/30/2022	REV: 0
DRAWN BY: YH	
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.

LOCUS MAP

TAKEN FROM GOOGLE.COM ON 03-2022



(#) PHOTO LOCATION

SITE NO:	CRAN_RCTB_A1CT_205
SITE NAME:	CRAN_RCTB_A1CT_205
ADDRESS:	62 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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

SITE TYPE: UTILITY POLE

DATE: 06/30/2022 | REV: 0

DRAWN BY: YH

SCALE: N.T.S.

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EXISTING CONDITIONS

LOCATION # 1

DATE OF PHOTO: 05/10/2022

VIEW NORTHEAST FROM UNNAMED RD.

SITE NO:	CRAN_RCTB_A1CT_205
SITE NAME:	CRAN_RCTB_A1CT_205
ADDRESS:	62 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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

SITE TYPE: UTILITY POLE	
DATE: 06/30/2022	REV: 0
DRAWN BY: YH	
SCALE: N.T.S.	

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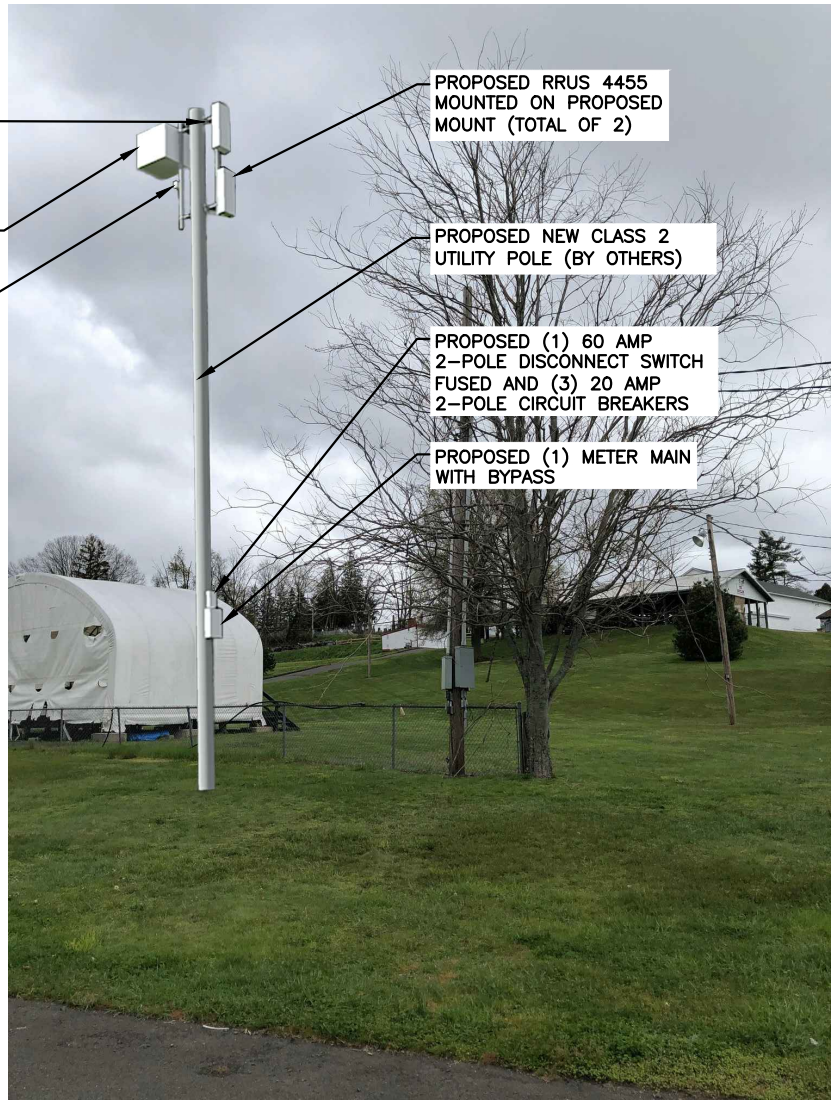
PROPOSED CONDITIONS

LOCATION # 1

DATE OF PHOTO: 05/10/2022



VIEW NORTHEAST FROM UNNAMED RD.

SITE NO: CRAN_RCTB_A1CT_205 SITE NAME: CRAN_RCTB_A1CT_205 ADDRESS: 62 MAIN STREET DURHAM, CT 06422	at&t 550 COCHITUATE ROAD FRAMINGHAM, MA 01701	PREPARED FOR: CENTERLINE COMMUNICATIONS 750 WEST CENTER STREET SUITE #301 WEST BRIDGEWATER, MA 02379	HUDSON Design Group LLC 45 BEECHWOOD DRIVE N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586	SITE TYPE: UTILITY POLE DATE: 06/30/2022 REV: 0 DRAWN BY: YH 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. PAGE 4 OF 4

ATTACHMENT 4b

Prepared For:
CENTERLINE-AT&T
Site Number:
CRAN_RCTB_A1CT_204
Site Name:
CRAN_RCTB_A1CT_204

28 MAIN STREET
DURHAM, CT 06422

SITE NO:	CRAN_RCTB_A1CT_204
SITE NAME:	CRAN_RCTB_A1CT_204
ADDRESS:	28 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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

SITE TYPE: UTILITY POLE	
DATE: 06/30/2022	REV: 0
DRAWN BY: YH	
SCALE: N.T.S.	

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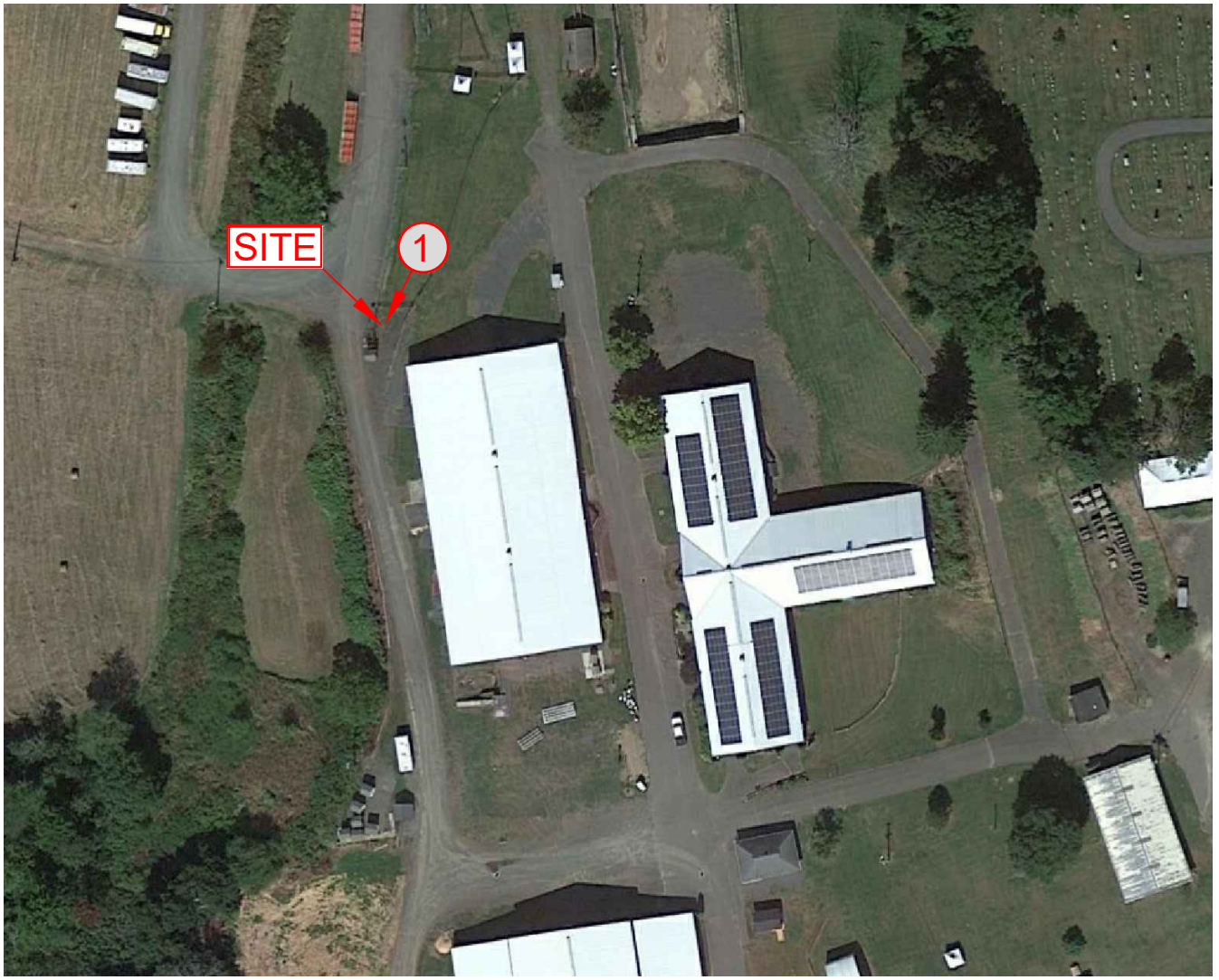
LOCUS MAP

TAKEN FROM GOOGLE.COM ON 03-2022



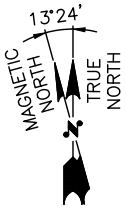


PHOTO LOCATION

SITE NO: CRAN_RCTB_A1CT_204

SITE NAME: CRAN_RCTB_A1CT_204

ADDRESS: 28 MAIN STREET
DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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

SITE TYPE: UTILITY POLE

DATE: 06/30/2022 | REV: 0

DRAWN BY: YH

SCALE: N.T.S.

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EXISTING CONDITIONS

LOCATION # 1

DATE OF PHOTO: 05/10/2022

VIEW SOUTHWEST FROM GRASS FIELD

SITE NO:	CRAN_RCTB_A1CT_204
SITE NAME:	CRAN_RCTB_A1CT_204
ADDRESS:	28 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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

SITE TYPE: UTILITY POLE	
DATE: 06/30/2022	REV: 0
DRAWN BY: YH	
SCALE: N.T.S.	

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PROPOSED CONDITIONS

LOCATION # 1

DATE OF PHOTO: 05/10/2022

VIEW SOUTHWEST FROM GRASS FIELD

SITE NO: CRAN_RCTB_A1CT_204 SITE NAME: CRAN_RCTB_A1CT_204 ADDRESS: 28 MAIN STREET DURHAM, CT 06422	at&t 550 COCHITUATE ROAD FRAMINGHAM, MA 01701	PREPARED FOR: CENTERLINE COMMUNICATIONS 750 WEST CENTER STREET SUITE #301 WEST BRIDGEWATER, MA 02379	HUDSON Design Group LLC 45 BEECHWOOD DRIVE N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586	SITE TYPE: UTILITY POLE DATE: 06/30/2022 REV: 0 DRAWN BY: YH 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. PAGE 4 OF 4

ATTACHMENT 4c

Prepared For:
CENTERLINE-AT&T
Site Number:
CRAN_RCTB_A1CT_109
Site Name:
CRAN_RCTB_A1CT_109

28 MAIN STREET
DURHAM, CT 06422

SITE NO:	CRAN_RCTB_A1CT_109
SITE NAME:	CRAN_RCTB_A1CT_109
ADDRESS:	28 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

HUDSON Design Group LLC
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N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SITE TYPE: UTILITY POLE

DATE: 06/30/2022 | REV: 0

DRAWN BY: YH

SCALE: N.T.S.

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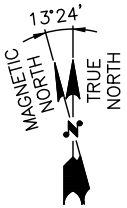
LOCUS MAP

TAKEN FROM GOOGLE.COM ON 03-2022



(#) PHOTO LOCATION

SITE NO:	CRAN_RCTB_A1CT_109
SITE NAME:	CRAN_RCTB_A1CT_109
ADDRESS:	28 MAIN STREET DURHAM, CT 06422

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379

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SITE TYPE: UTILITY POLE	
DATE: 06/30/2022	REV: 0
DRAWN BY: YH	
SCALE: N.T.S.	

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EXISTING CONDITIONS

LOCATION # 1

DATE OF PHOTO: 05/10/2022

VIEW WEST FROM GRASS FIELD

SITE NO:	CRAN_RCTB_A1CT_109
SITE NAME:	CRAN_RCTB_A1CT_109
ADDRESS:	28 MAIN STREET DURHAM, CT 06422

at&t

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PREPARED FOR:

CENTERLINE COMMUNICATIONS

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

HDG HUDSON Design Group LLC

45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586

SITE TYPE: UTILITY POLE	
DATE: 06/30/2022	REV: 0
DRAWN BY: YH	
SCALE: N.T.S.	

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PROPOSED CONDITIONS

LOCATION # 1

DATE OF PHOTO: 05/10/2022

VIEW WEST FROM GRASS FIELD

SITE NO: CRAN_RCTB_A1CT_109 SITE NAME: CRAN_RCTB_A1CT_109 ADDRESS: 28 MAIN STREET DURHAM, CT 06422	at&t 550 COCHITUATE ROAD FRAMINGHAM, MA 01701	PREPARED FOR: CENTERLINE COMMUNICATIONS 750 WEST CENTER STREET SUITE #301 WEST BRIDGEWATER, MA 02379	HUDSON Design Group LLC 45 BEECHWOOD DRIVE N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586	SITE TYPE: UTILITY POLE DATE: 06/30/2022 REV: 0 DRAWN BY: YH 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

ATTACHMENT 5a

Radio Frequency Exposure Analysis Report

July 12, 2022

Centerline on behalf of AT&T

AT&T Site Name: cRAN_RCTB_A1CT_205 CSC
Site Number: 520857
FA#: 15396690
USID: 298340

Site Address: 10 Town House Road, Durham, CT 06422

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	10.21815 µW/cm^2
Cumulative General Population % MPE (Ground Level):	1.02182%

July 12, 2022

Centerline
Attn: Jilian Fancher
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: **cRAN_RCTB_A1CT_205 CSC**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **10 Town House Road, Durham, CT 06422** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{MHz}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu W/cm^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

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

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/ controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.

Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® 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. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at ground level.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

Maximum Calculated Cumulative Power Density @ Ground Level
(Location: approximately 3' north of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (µW/cm²)	General Population MPE Limit (µW/cm²)	General Population % MPE
AT&T A 1	MATSING MS-MBA-2 AZ-40	1900	15.68	37.00	2.00	30.00	2218.97	4.76152	1000.00	0.47615
AT&T A 1	MATSING MS-MBA-2 AZ-40	2100	16.22	37.00	2.00	30.00	2512.76	5.38257	1000.00	0.53826
AT&T A 1	MATSING MS-MBA-2 AZ0	1900	15.13	37.00	2.00	30.00	1955.02	0.03254	1000.00	0.00325
AT&T A 1	MATSING MS-MBA-2 AZ0	2100	15.79	37.00	2.00	30.00	2275.89	0.03015	1000.00	0.00302
AT&T A 1	MATSING MS-MBA-2 AZ+40	1900	15.03	37.00	2.00	30.00	1910.52	0.01001	1000.00	0.00100
AT&T A 1	MATSING MS-MBA-2 AZ+40	2100	15.99	37.00	2.00	30.00	2383.15	0.00136	1000.00	0.00014
							Cumulative Power Density:	**10.21815 µW/cm²**	**Cumulative % MPE:**	**1.02182%**

Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Katrina Styx
RF EME Technical Writer
Centerline Communications, LLC

ATTACHMENT 5b

Radio Frequency Exposure Analysis Report

July 18, 2022

Centerline on behalf of AT&T

AT&T Site Name: cRAN_RCTB_A1CT_204 CSC
AT&T Site Number: 520856
FA#: 15396689
USID: 298339

Site Address: 30 Town House Road, Durham, CT 06422

Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2023

Signed 18 July 2022

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	46.48498 µW/cm^2
Cumulative General Population % MPE (Ground Level):	4.64850%

July 18, 2022

Attn: Jilian Fancher
Centerline
750 W. Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: **cRAN_RCTB_A1CT_204 CSC**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **30 Town House Road, Durham, CT 06422** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{MHz}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu W/cm^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

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

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Calculation Methodology

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In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at ground level.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

Maximum Calculated Cumulative Power Density @ Ground Level
(Location: approximately 112' southeast of site on small hill)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu W/cm^2$)	General Population MPE Limit ($\mu W/cm^2$)	General Population % MPE
AT&T A 1	MATSING MS-MBA-2 AZ-40	1900	15.68	37.00	2.00	30.00	2218.97	0.00674	1000.00	0.00067
AT&T A 1	MATSING MS-MBA-2 AZ-40	2100	16.22	37.00	2.00	30.00	2512.76	0.01184	1000.00	0.00118
AT&T A 1	MATSING MS-MBA-2 AZ0	1900	15.13	37.00	2.00	30.00	1955.02	0.00007	1000.00	0.00001
AT&T A 1	MATSING MS-MBA-2 AZ0	2100	15.79	37.00	2.00	30.00	2275.89	0.00004	1000.00	0.00000
AT&T A 1	MATSING MS-MBA-2 AZ+40	1900	15.03	37.00	2.00	30.00	1910.52	0.00017	1000.00	0.00002
AT&T A 1	MATSING MS-MBA-2 AZ+40	2100	15.99	37.00	2.00	30.00	2383.15	0.00010	1000.00	0.00001
AT&T B 2	MATSING MS-MBA-2 AZ-40	1900	15.68	37.00	2.00	30.00	2218.97	21.79155	1000.00	2.17916
AT&T B 2	MATSING MS-MBA-2 AZ-40	2100	16.22	37.00	2.00	30.00	2512.76	24.67342	1000.00	2.46734
AT&T B 2	MATSING MS-MBA-2 AZ0	1900	15.13	37.00	2.00	30.00	1955.02	0.00050	1000.00	0.00005
AT&T B 2	MATSING MS-MBA-2 AZ0	2100	15.79	37.00	2.00	30.00	2275.89	0.00047	1000.00	0.00005
AT&T B 2	MATSING MS-MBA-2 AZ+40	1900	15.03	37.00	2.00	30.00	1910.52	0.00007	1000.00	0.00001
AT&T B 2	MATSING MS-MBA-2 AZ+40	2100	15.99	37.00	2.00	30.00	2383.15	0.00001	1000.00	0.00000
							Cumulative Power Density:	**46.48498 $\mu W/cm^2$**	**Cumulative % MPE:**	**4.64850%**

Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Katrina Styx
RF EME Technical Writer
Centerline Communications, LLC

ATTACHMENT 5c

Radio Frequency Exposure Analysis Report

July 18, 2022

Centerline on behalf of AT&T

AT&T Site Name: cRAN_RCTB_A1CT_109
Site Number: 520352
FA#: 14885879
USID: 252931

Site Address: 24 Town House Road, Durham, CT 06422

Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2023

Signed 18 July 2022

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	29.17561 µW/cm^2
Cumulative General Population % MPE (Ground Level):	2.91756%

July 18, 2022

Centerline
Attn: Jillian Fancher, Associate Project Manager
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: **cRAN_RCTB_A1CT_109**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **24 Town House Road, Durham, CT 06422** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{MHz}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu W/cm^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

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

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/ controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.

Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® 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. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at ground level.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

Maximum Calculated Cumulative Power Density @ Ground Level
(Location: approximately 5' NW of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (µW/cm²)	General Population MPE Limit (µW/cm²)	General Population % MPE
AT&T A 1	MATSING MS-MBA-2 AZ-40	1900	15.68	30.00	2.00	30.00	2218.97	7.20279	1000.00	0.72028
AT&T A 1	MATSING MS-MBA-2 AZ-40	2100	16.22	30.00	2.00	30.00	2512.76	8.53295	1000.00	0.85330
AT&T A 1	MATSING MS-MBA-2 AZ0	1900	15.13	30.00	2.00	30.00	1955.02	0.11672	1000.00	0.01167
AT&T A 1	MATSING MS-MBA-2 AZ0	2100	15.79	30.00	2.00	30.00	2275.89	0.03442	1000.00	0.00344
AT&T A 1	MATSING MS-MBA-2 AZ+40	1900	15.03	30.00	2.00	30.00	1910.52	0.01174	1000.00	0.00117
AT&T A 1	MATSING MS-MBA-2 AZ+40	2100	15.99	30.00	2.00	30.00	2383.15	0.00449	1000.00	0.00045
AT&T B 2	MATSING MS-MBA-2 AZ-40	1900	15.68	30.00	2.00	30.00	2218.97	0.01098	1000.00	0.00110
AT&T B 2	MATSING MS-MBA-2 AZ-40	2100	16.22	30.00	2.00	30.00	2512.76	0.00938	1000.00	0.00094
AT&T B 2	MATSING MS-MBA-2 AZ0	1900	15.13	30.00	2.00	30.00	1955.02	0.00386	1000.00	0.00039
AT&T B 2	MATSING MS-MBA-2 AZ0	2100	15.79	30.00	2.00	30.00	2275.89	0.00510	1000.00	0.00051
AT&T B 2	MATSING MS-MBA-2 AZ+40	1900	15.03	30.00	2.00	30.00	1910.52	0.00353	1000.00	0.00035
AT&T B 2	MATSING MS-MBA-2 AZ+40	2100	15.99	30.00	2.00	30.00	2383.15	0.00417	1000.00	0.00042
AT&T C 3	MATSING MS-MBA-2 AZ-40	1900	15.68	30.00	2.00	30.00	2218.97	0.00430	1000.00	0.00043
AT&T C 3	MATSING MS-MBA-2 AZ-40	2100	16.22	30.00	2.00	30.00	2512.76	0.01124	1000.00	0.00112
AT&T C 3	MATSING MS-MBA-2 AZ0	1900	15.13	30.00	2.00	30.00	1955.02	0.02117	1000.00	0.00212
AT&T C 3	MATSING MS-MBA-2 AZ0	2100	15.79	30.00	2.00	30.00	2275.89	0.01796	1000.00	0.00180
AT&T C 3	MATSING MS-MBA-2 AZ+40	1900	15.03	30.00	2.00	30.00	1910.52	6.54712	1000.00	0.65471
AT&T C 3	MATSING MS-MBA-2 AZ+40	2100	15.99	30.00	2.00	30.00	2383.15	6.63373	1000.00	0.66337
							Cumulative Power Density:	**29.17561 µW/cm²**	**Cumulative % MPE:**	**2.91756%**

Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Michelle Stone
RF EME Technical Writer II
Centerline Communications, LLC

ATTACHMENT 6

CERTIFICATION OF SERVICE

I hereby certify that on August 25, 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:

Dated: August 25, 2022

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

State

THE HONORABLE WILLIAM TONG ATTORNEY GENERAL OFFICE OF THE ATTORNEY GENERAL 165 CAPITOL AVENUE HARTFORD, CT 06106	DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT DAVID LEHMAN, COMMISSIONER 450 COLUMBUS BLVD HARTFORD, CT 06103
DEPARTMENT OF PUBLIC HEALTH MANISHA JUTHANI, MD, COMMISSIONER 410 CAPITOL AVENUE HARTFORD, CT 06134	PUBLIC UTILITIES REGULATORY AUTHORITY MARISSA P. GILLETT, CHAIRMAN 10 FRANKLIN SQUARE NEW BRITAIN, CT 06051
COUNCIL ON ENVIRONMENTAL QUALITY PAUL ARESTA, EXECUTIVE DIRECTOR 79 ELM STREET, 6th FLOOR 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	SECRETARY OF THE STATE MARK F. KOHLER 165 CAPITOL AVENUE, SUITE 1000 P.O. BOX 150470 HARTFORD, CT 06115
LOWER CONNECTICUT RIVER VALLEY COUNCIL OF GOVERNMENTS 145 DENNISON RD ESSEX, CT 06426	DEPARTMENT OF EMERGENCY SERVICES & PUBLIC PROTECTION DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND SECURITY

	JAMES C. ROVELLA, COMMISSIONER 1111 COUNTRY CLUB ROAD MIDDLETOWN, CT 06457
STATE HISTORIC PRESERVATION OFFICE 450 COLUMBUS BOULEVARD, FLOOR 5 HARTFORD, CT 06103	STATE REPRESENTATIVE-DISTRICT 101 JOHN-MICHAEL PARKER LEGISLATIVE OFFICE BUILDING 300 CAPITOL AVENUE HARTFORD, CT 06106
STATE SENATOR – DISTRICT S12 CHRISTINE COHEN LEGISLATIVE OFFICE BUILDING 300 CAPITOL AVENUE ROOM 3200 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, 10TH FLOOR HARTFORD, CT 06103
U.S. CONGRESSWOMAN – 3RD DISTRICT ROSA L. DELAURO 59 ELM STREET NEW HAVEN, CT 06510	

Town of Durham

JOHN SZEWCZYK, SELECTMAN DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422	GEORGE EAMES, SELECTMAN DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422
CHARLES LAWRENCE, EXECUTIVE ASSISTANT TO FIRST SELECTMAN DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422	KIM GARVIS, TOWN CLERK DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422

JENNIFER PERRY ADMINISTRATIVE COORDINATOR OF BUILDING AND LAND USE DEPARTMENT DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422	RICHARD ERIKSEN, CHAIRMAN INLAND WETLANDS AND WATERCOURSES AGENCY DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422
FRANK DEFELICE, CHAIRMAN PLANNING AND ZONING COMMISSION DURHAM TOWN HALL P.O. BOX 428 30 TOWN HOUSE ROAD DURHAM, CT 06422	

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 August 29, 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 three new "small cell" wireless telecommunications facilities on new utility poles.

The proposed telecommunications facilities will be located on property owned by the Durham Agricultural Fair Association located at 24 Town House Road (also referred to as Parcel IDs: 48-2 & 48-6) in the Town of Durham, Connecticut. AT&T proposes to install the following:

- Facility 1 (AT&T Site ID: CRAN_RTCB_A1CT_205): AT&T proposes a new Class 2 utility pole which will stand approximately 38'6"-tall above grade level ("AGL"). AT&T proposes to mount one 25.16"x24.13" masting antenna at the centerline height of 37' AGL with associated equipment installed at the antenna-level height.
- Facility 2 (AT&T Site ID: CRAN_RTCB_A1CT_204): AT&T proposes a new Class 2 utility pole which will stand approximately 39'-tall AGL. AT&T proposes to mount two 25.16"x24.13" masting antennas at the centerline height of 37' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.
- Facility 3 (AT&T Site ID: CRAN_RTCB_A1CT_109): AT&T proposes a new Class 2 utility pole which will stand approximately 34'-tall AGL. AT&T proposes to mount three 25.16"x24.13" masting antennas at the centerline height of 30' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.

The Petition will provide additional details of the proposal and explain why AT&T submits that the proposed small cell facilities 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 on file with the following on or after August 29, 2022:

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Kim Garvis, Town Clerk
30 Town House Road, P.O. Box 428
Durham, CT 06422

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.

Daniel Patrick, Esq.
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 August 25, 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: August 25, 2022

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

STATE OF CONNECTICUT PARMELEE HILL RD DURHAM, CT 06422	STATE OF CONNECTICUT 79 ELM ST HARTFORD, CT 06115
TOWN OF DURHAM MAPLE AVE. DURHAM, CT 06422	TOWN OF DURHAM P.O. BOX 428 DURHAM, CT 06422
TOWN OF DURHAM MAIN ST. DURHAM, CT 06422	LAMOS LLC 16 MAIN ST. DURHAM, CT 06422
LAMOS LLC P.O. BOX 120111 EAST HAVEN, CT 06512	DURHAM AGRICULTURAL FAIR ASSOC MAIN ST. DURHAM, CT 06422
DURHAM AGRICULTURAL FAIR ASSOC 52 MAIN ST. DURHAM, CT 06422	DURHAM AGRICULTURAL FAIR ASSOC P.O. BOX 225 DURHAM, CT 06422
DURHAM AGRICULTURAL FAIR ASSOC 62 MAIN ST. DURHAM, CT 06422	DURHAM AGRICULTURAL FAIR ASSOC 24 TOWNHOUSE RD DURHAM, CT 06422
DURHAM AGRICULTURAL FAIR ASSOC 68 MAIN ST. DURHAM, CT 06422	EAMES ADELE M & GEORGE M 3RD 10 TOWN HOUSE RD. DURHAM, CT 06422
DURHAM AGRICULTURAL FAIR ASSOC TOWN HOUSE RD. DURHAM, CT 06422	SALVA CHERYL N 18 TOWN HOUSE RD. DURHAM, CT 06422
DURHAM AGRICULTURAL FAIR ASSOC 24 TOWN HOUSE RD. DURHAM, CT 06422	TOWN OF DURHAM TOWN HOUSE RD DURHAM, CT 06422
TOWN OF DURHAM 30 TOWN HOUSE RD. DURHAM, CT 06422	DURHAM AGRICULTURAL FAIR ASSOC MAPLE AVE. DURHAM, CT 06422

CORONA KATHLEEN N 17 JOHNS WAY DURHAM, CT 06422	BELTON AMANDA L TRUSTEE BIELEFIELD CHILDREN TRUST AGREEMENT THE 41 MAPLE AVE DURHAM, CT 06422
GOSSNER KRISTINA L & MARK B 29 MAPLE AVE DURHAM, CT 06422	

August 25, 2022

VIA CERTIFIED MAIL/
RETURN RECEIPT REQUESTED

Re: New Cingular Wireless PCS, LLC ("AT&T")
Installation of A Small Cell Wireless Telecommunication Facility
24 Town House Road, Durham, 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 three new "small cell" wireless telecommunications facilities on new utility poles to be installed on property owned by the Durham Agricultural Fair Association located at 24 Town House Road (also referred to as Parcel IDs: 48-2 & 48-6) in the Town of Durham, Connecticut.

AT&T proposes to install the following:

- Facility 1 (AT&T Site ID: CRAN_RTCB_A1CT_205): AT&T proposes a new Class 2 utility pole which will stand approximately 38'6"-tall above grade level ("AGL"). AT&T proposes to mount one 25.16"x24.13" masting antenna at the centerline height of 37' AGL with associated equipment installed at the antenna-level height.
- Facility 2 (AT&T Site ID: CRAN_RTCB_A1CT_204): AT&T proposes a new Class 2 utility pole which will stand approximately 39'-tall AGL. AT&T proposes to mount two 25.16"x24.13" masting antennas at the centerline height of 37' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.
- Facility 3 (AT&T Site ID: CRAN_RTCB_A1CT_109): AT&T proposes a new Class 2 utility pole which will stand approximately 34'-tall AGL. AT&T proposes to mount three 25.16"x24.13" masting antennas at the centerline height of 30' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.

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. 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 August 29, 2022 which is the date that the petition is expected to be on file.

Very truly yours,

Daniel Patrick, Esq.
Enclosure

cc: Lucia Chiocchio, Esq., Cuddy & Feder LLP

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 August 29, 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 three new "small cell" wireless telecommunications facilities on new utility poles.

The proposed telecommunications facilities will be located on property owned by the Durham Agricultural Fair Association located at 24 Town House Road (also referred to as Parcel IDs: 48-2 & 48-6) in the Town of Durham, Connecticut. AT&T proposes to install the following:

- Facility 1 (AT&T Site ID: CRAN_RTCB_A1CT_205): AT&T proposes a new Class 2 utility pole which will stand approximately 38'6"-tall above grade level ("AGL"). AT&T proposes to mount one 25.16"x24.13" masting antenna at the centerline height of 37' AGL with associated equipment installed at the antenna-level height.
- Facility 2 (AT&T Site ID: CRAN_RTCB_A1CT_204): AT&T proposes a new Class 2 utility pole which will stand approximately 39'-tall AGL. AT&T proposes to mount two 25.16"x24.13" masting antennas at the centerline height of 37' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.
- Facility 3 (AT&T Site ID: CRAN_RTCB_A1CT_109): AT&T proposes a new Class 2 utility pole which will stand approximately 34'-tall AGL. AT&T proposes to mount three 25.16"x24.13" masting antennas at the centerline height of 30' AGL with associated equipment installed on a separate 6'-tall H-Frame mount adjacent to the proposed utility pole.

The Petition will provide additional details of the proposal and explain why AT&T submits that the proposed small cell facilities 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 on file with the following on or after August 29, 2022:

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Kim Garvis, Town Clerk
30 Town House Road, P.O. Box 428
Durham, CT 06422

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.

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

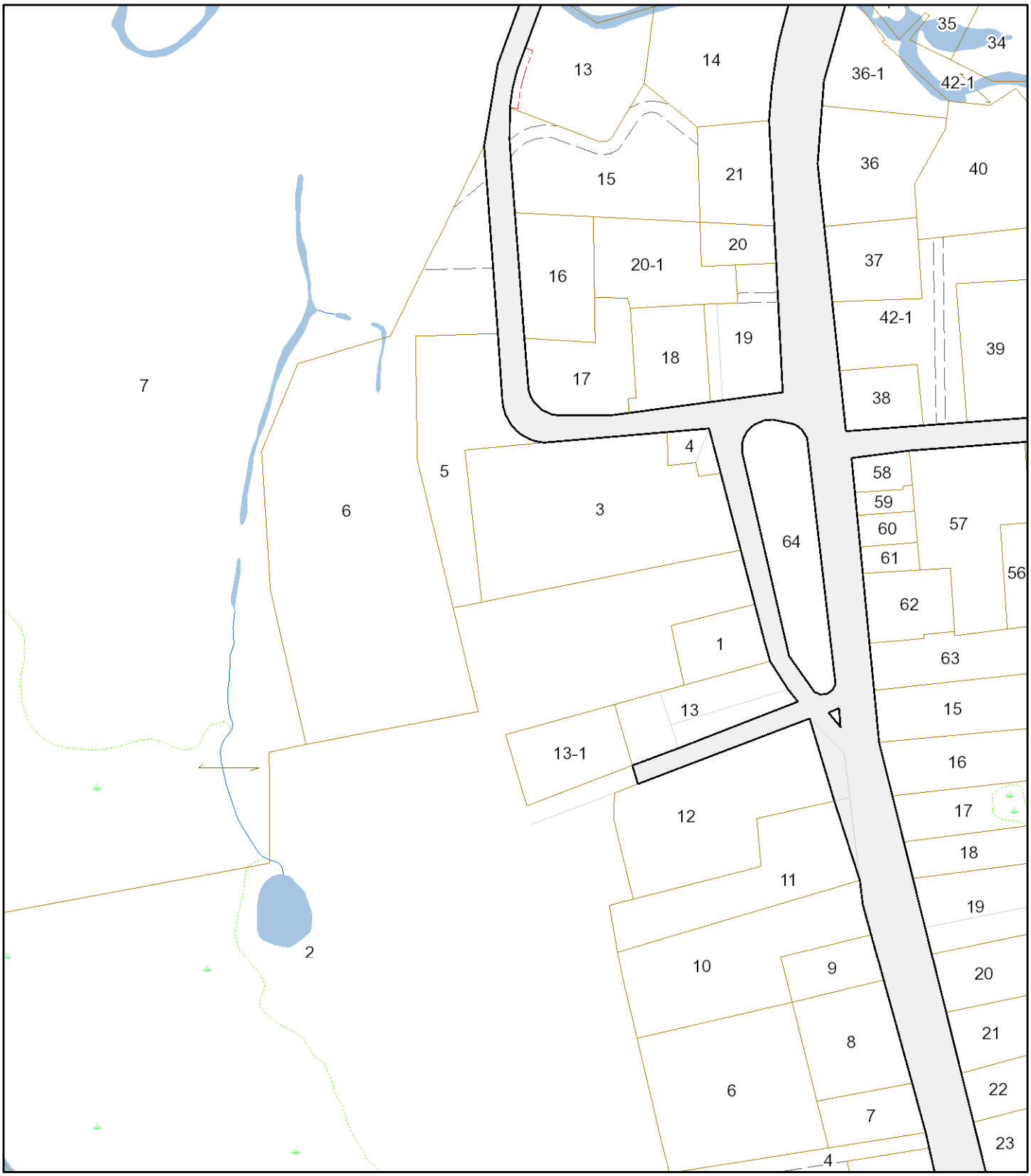
Durham, CT

1 inch = 282 Feet

August 22, 2022

0 282 564 846

www.cai-tech.com



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

ABUTTERS LIST

PARCEL ID	OWNER NAME	SITE ADDRESS	MAILING ADDRESS	CITY	STATE	ZIP CODE
67-1	State of Connecticut	Parmelee Hill Rd, Durham	79 Elm St	Hartford	CT	06115
48-7	Town of Durham	Maple Ave., Durham	P.O. Box 428	Durham	CT	06422
58-4-1	Town of Durham	Main St., Durham	P.O. Box 428	Durham	CT	06422
58-4	Lamos LLC	16 Main St., Durham	P.O. Box 120111	Durham	CT	06422
58-6	Durham Agricultural Fair Assoc	Main St., Durham	P.O. Box 225	Durham	CT	06422
58-10	Durham Agricultural Fair Assoc	52 Main St., Durham	P.O. Box 225	Durham	CT	06422
58-11	Durham Agricultural Fair Assoc	62 Main St., Durham	24 Town House Rd.	Durham	CT	06422
58-12	Durham Agricultural Fair Assoc	68 Main St., Durham	P.O. Box 225	Durham	CT	06422
58-13	Eames Adele M & George M 3rd	10 Town House Rd., Durham	10 Town House Rd.	Durham	CT	06422
58/13-1	Durham Agricultural Fair Assoc	Town House Rd., Durham	P.O. Box 225	Durham	CT	06422
48-1	Salva Cheryl N	18 Town House Rd., Durham	18 Town House Rd.	Durham	CT	06422
48-2	Durham Agricultural Fair Assoc	24 Town House Rd., Durham	P.O. Box 225	Durham	CT	06422
48-64	Town of Durham	Town House Rd., Durham	P.O. Box 428	Durham	CT	06422
48-3	Town of Durham	30 Town House Rd., Durham	P.O. Box 428	Durham	CT	06422

48-5	Durham Agricultural Fair Assoc	Maple Ave., Durham	P.O. Box 225	Durham	CT	06422
48-6	Durham Agricultural Fair Assoc	Maple Ave., Durham	P.O. Box 225	Durham	CT	06422
48-15	Corona Kathleen N	17 Johns Way, Durham	17 Johns Way	Durham	CT	06422
48-16	Belton Amanda L Trustee Bielefield Children Trust Agreement The	41 Maple Ave., Durham	41 Maple Ave.	Durham	CT	06422
48-17	Gossner Kristina L & Mark B	29 Maple Ave., Durham	29 Maple Ave.	Durham	CT	06422