

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF NEW CINGULAR WIRELESS  
PCS, LLC (AT&T) FOR A CERTIFICATE OF  
ENVIRONMENTAL COMPATIBILITY AND  
PUBLIC NEED FOR THE CONSTRUCTION,  
MAINTENANCE, AND OPERATION OF A  
WIRELESS TELECOMMUNICATIONS FACILITY  
AT 499 MILE LANE, CITY OF MIDDLETOWN,  
CONNECTICUT

DOCKET NO. 506

November 23, 2021

**RESPONSES OF NEW CINGULAR WIRELESS PCS, LLC (AT&T) TO  
CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES, SET ONE**

**General**

- Q1. Of the letters sent to abutting property owners, how many certified mail receipts were received? If any receipts were not returned, which owners did not receive their notice? Were any additional attempts made to contact those property owners?
- A1. *Certified mail receipts were sent to all abutting property owners and all but three (3) certified mail receipts were received. The Applicant sent additional notices to these three abutting property owners by first class mail on October 29, 2021. A copy of this mailing is included in Attachment 1.*
- Q2. Referencing Attachment 3 of the Application, Sheet C-1, New Cingular Wireless PCS, LLC's (Applicant or AT&T) Plot Plan appears to indicate the site parcel is zoned NPD rather than R-15 (Residential) as noted in the Zoning Information box. Please clarify.
- A2. *The site parcel is classified within the R-15 residential zone.*
- Q3. Estimate the total cost of the proposed project. Break down the total cost into categories that AT&T deems appropriate.
- A3. *The estimated total cost of construction for the Proposed Facility is presented in the table below.*

<b><i>Requisite Component</i></b>	<b><i>Cost (USD)</i></b>
<i>Tower &amp; Foundation</i>	<i>54,000</i>
<i>Site Development</i>	<i>50,000</i>
<i>Utility Installation</i>	<i>36,000</i>
<i>Antennas &amp; Equipment</i>	<i>120,000</i>
<i>Total Estimated Costs</i>	<i>260,000</i>

- Q4. How is the construction cost of the facility recovered?
- A4. *The cost of tower construction is recovered by AT&T as part of network services provided to customers and may be supplemented through rent from sub-tenants that choose to utilize the tower facility.*
- Q5. What is the cost difference between a monopole and a monopine design?
- A5. *A monopine design would cost approximately \$ 150,000 more than the proposed facility design. During the City of Middletown C.G.S. § 8-24 review on the proposed lease, the Planning and Zoning Commissioners discussed the aesthetics of a monopine tower and a monopole tower. While no formal action was taken, the Commissioners indicated that the monopole tower was preferred.*
- Q6. Compare the construction costs between the proposed facility versus reinforcement of the existing facility.
- A6. *The cost of reinforcing the existing municipal facility was not explored because the City determined that such an alternative would not be made available to AT&T. Please see the enclosed structural report in Attachment 2, performed by Fullerton Engineering Consultants, Inc., dated January 7, 2019, which is being bulk filed. This structural report describes in detail the extensive reinforcements and structural modifications that would be required for AT&T to collocate its equipment on the existing municipal tower. Any Siting Council order to require reinforcement and use of the existing municipal tower facility is subject to the Council's 16-50aa authority and would require it to override the City's determination not to make that option available to AT&T as part of a decision and order in Docket 506.*
- Q7. What is the cost difference between the new facility and sharing the existing facility (with the necessary reinforcements)?
- A7. *The cost of reinforcing the existing facility was not explored as noted above in response to Question 6. AT&T does not believe that the reinforcement costs would be prohibitive for purposes of the overall project and tower site sharing at AT&T's expense.*
- Q8. Pursuant to CGS §16-500, please submit a copy of the Land Lease Agreement.
- A8. *On August 11, 2021, the City of Middletown's Planning and Zoning Commission performed a C.G.S. § 8-24 review on a proposed lease for space on the proposed tower. The Planning and Zoning Commission granted an affirmative C.G.S. § 8-24 review for the lease agreement, finding that the proposed lease was consistent with the City of Middletown's Plan of Conservation and Development. Subsequently, the City's Common Council authorized the City to execute the lease agreement with AT&T, pending Siting Council approval of the proposed facility. Copies of the City Planning and Zoning Commission's notice of granting an affirmative C.G.S. 8-24 report for the lease agreement and the Common Council Resolution approving the lease were included in Exhibit B, Attachment 1 of the Application materials. The City has not yet executed the Land Lease Agreement and a redacted copy of the approved version is being included in Attachment 3 as a bulk filing.*

## Site Search

Q9. When was the search ring established for the proposed facility?

A9. *The search ring was established in August of 2018.*

Q10. Identify the approximate center and radius of the site search area.

A10. *The approximate radius of the site search area was 0.25 miles and the center of the site search area is 41.575315 -72.685861.*

Q11. Provide a map of existing towers within a four-mile radius.

A11. *Please see the map included in Attachment 4 for the existing towers within a 4-mile radius.*

Q12. Would any existing tall structures within a 4-mile radius (other than the existing tower) meet AT&T's coverage objectives?

A12. *There are no existing tall structures within a 4-mile radius, other than the existing municipal tower, that would meet AT&T's coverage objectives.*

Q13. Explain in detail what reinforcements and other structural modifications would be required for AT&T to collocate equipment on the existing tower.

A13. *Please see the enclosed structural report in Attachment 2 which is being bulk filed, performed by Fullerton Engineering Consultants, Inc., dated January 7, 2019, which describes in detail the reinforcements and structural modifications that would be required for AT&T to collocate its equipment on the existing municipal tower. This structural report revealed that the City's tower would require major structural modifications to the tower legs, bolts, diagonal steel and anchor rods to accommodate AT&T's proposed antenna loading.*

Q14. Did the City of Middletown (City) and AT&T consider sharing a new tower facility and decommissioning the existing tower?

A14. *Yes, the City and AT&T considered sharing a new tower facility. The current municipal tower located on 499 Mile Lane was constructed in 2017 and was erected to serve as the master site for the entire City of Middletown's public safety and emergency communications network. The City was concerned that relocation of its emergency communications equipment onto a new tower would impose risks and possible outages during the relocation, which would be an outage of the entire emergency communications network of the City of Middletown. This risk was determined by the City of Middletown to be unacceptable for the public safety of the city. As a result, AT&T proposed adding a second tower to the site.*

Q15. Identify any raw land sites that AT&T considered in its site search and include the reasons such sites were rejected.

A15. *AT&T evaluated a location at the Lawrence School property on Kaplan Drive, to the northwest of the proposed site. This location is significantly lower in elevation and was encumbered by wetlands in portions of the site. Ultimately, the site was RF rejected by AT&T for reliable wireless services to the targeted coverage area.*

Q16. Could the new tower location be moved deeper into the parcel toward the school rather than the neighborhoods? Is the City amenable to leasing other areas of the host parcel for tower development?

A16. *Moving the tower further into the parcel would restrict future uses and potential expansion of emergency management and public safety services on the site by the City of Middletown. The City of Middletown is amenable to having the proposed tower be located in the general area on 499 Mile Lane in which it is currently proposed.*

Q17. Are any of the other City parcels abutting the proposed site available for tower development?

A17. *No, it is AT&T's understanding that there are no other City-owned parcels abutting the proposed site that are available for tower development.*

#### **Site/tower**

Q18. Where is the nearest commercial child day care center located? Provide the distance and direction from the proposed tower, and describe the visibility of the proposed tower from that location.

A18. *The nearest commercial daycare center is the Building Blocks Early Learning Center located approximately 0.82 miles to the northwest of the site at 800 East Street in Middletown. As demonstrated in the enclosed preliminary viewshed analysis map, there is no predicted visibility of the proposed tower from Building Blocks Early Learning Center (see Attachment 5).*

Q19. Where is the nearest school located? Provide the distance and direction from the proposed tower to the nearest school building, and describe the visibility of the proposed tower from that location.

A19. *The nearest school is the Middletown High School, located approximately 0.30 miles to the southeast of the site at 200 LaRosa Lane in Middletown. Both seasonal and year-round visibility is anticipated on the grounds of the high school and in the vicinity. Please reference the enclosed preliminary viewshed analysis map in Attachment 5.*

Q20. How many residences are located within a 1,000-foot radius of the proposed site?

A20. *Approximately 91 residences are located within a 1,000-foot radius of the proposed site.*

Q21. What is the distance and direction from the proposed site to the nearest residence?

A21. *The closest residence is approximately 425 feet to the east of the Proposed Facility.*

Q22. Provide the approximate widths of the monopole at the base and at the top.

A22. *The monopole will be approximately 6 feet wide at the base and approximately 3 feet wide at the top.*

Q23. What is the distance from the center of the existing tower to the center of the proposed tower?

A23. *The distance from the center of the existing municipal tower to the center of the proposed tower is approximately 47 feet.*

Q24. What, if any, stealth tower design options (other than a monopine) would be feasible to employ at this site? Please provide costs related to each stealth tower design.

A24. *Any alternate stealth tower design like a unipole would significantly limit the site's ability to provide reliable wireless services to the targeted coverage area. As previously indicated in the response to Q5, the City of Middletown prefers the monopole design over another stealth tower design.*

Q25. Referencing Attachment 3 of the Application, Drawing C-1, provide the distance from the center of the proposed 150-foot monopole to the nearest property line. If this distance is less than 150 feet, could the tower be designed with a yield point to ensure that the tower setback radius remains within the boundaries of the subject property? What would be the cost of installing such yield point?

A25. *The distance from the center of the proposed monopole, in a revised location, to the nearest property line is approximately 256 feet. A 1 x 150' tower setback will be maintained within the boundaries of the subject property and therefore no yield point will be required. Included in Attachment 7 are updated site drawings, prepared by Hudson Design Group LLC, revised through November 22, 2021, which have been amended to reflect a revised second tower location and equipment in the existing tower compound to address the results of field reconnaissance and survey work completed post filing and partially in response to Interrogatory Question No. 72. These minor changes in location and equipment layout are described in more detail in the response to Interrogatory Question No. 66 herein and reduce the area of land proposed for disturbance principally to that of the second tower location. The amended site drawings include a full survey on Sheet C-1 with setback distances identified and it is noted that the*

*site drawings previously submitted with the Application were based on plot plan with shorter distances identified than those noted on the survey.*

Q26. Would the monopole have a galvanized gray finish or a different color/finish?

*A26. The monopole would have a galvanized gray finish.*

Q27. Would the monopole be designed for EIA/TIA-222 structural standards version G, H, or both?

*A27. The monopole will be designed in accordance with EIA/TIA-222 structural standards version H.*

Q28. What is the structural design standard applicable to the proposed antenna mount?

*A28. The antenna mount will be designed in accordance with TIA-222-H.*

Q29. Referencing Attachment 3 of the Application, Drawing A-2, Proposed Antenna Layout Design, is AT&T seeking approval of the "Future AT&T RRH's" as part of this project, or would AT&T seek such approval in the future? Are the future RRH's factored into the structural and mount analyses?

*A29. AT&T is not seeking approval of future RRH's at this time and would file notices of exempt modifications at a later date. The future RRH's were factored into the structural and mount analyses.*

Q30. Would the proposed monopole and foundation be designed to accommodate an extension in tower height? If yes, for how many feet?

*A30. If requested, AT&T will design the tower and foundation to accommodate an increase in tower height.*

Q31. Referencing Tab 2 of the Application, provide a bulk filing of the full Structural Calculations Report dated January 7, 2019.

*A31. Please see Attachment 2 for the structural report performed by Fullerton Engineering Consultants, Inc., dated January 7, 2019.*

Q32. Quantify the amounts of cut and fill that would be required to develop the proposed facility.

*A32. The quantity of cut and fill that would be required to develop the Proposed Facility is minimal. Approximately 55 cubic yards will be cut and roughly the same amount will be required to create the compound base and complete any required grading.*

Q33. Would any blasting be required to develop the site?

A33. *AT&T does not anticipate the need for blasting to construct the Proposed Facility. Before construction, a geotechnical survey will be performed to evaluate subsurface conditions. If ledge is encountered, chipping is preferred to blasting. If blasting were required, an appropriate protocol would be followed in accordance with state and municipal regulations.*

Q34. What measures are proposed for the site to ensure security and deter vandalism? (Including alarms, gates, locks, anti-climb fence design, etc.)

A34. *The tower and equipment compound will be completely enclosed by an 8'-tall security fence with a locked gate on municipally-owned property secured with a locked gate. The fence can incorporate barbed wire for additional security. Further, AT&T's equipment cabinets will be equipped with silent intrusion alarms. If someone attempts to tamper with or breaking to the cabinet, cell site technicians monitoring the site will be alerted and local police will be contacted.*

Q35. Referencing Attachment 3 of the Application, Drawing A-1, how tall is the existing tower compound chain link fence? Would the proposed expansion fence be designed to match the existing fence?

A35. *The chain link fence around the existing municipal tower compound is approximately 8'-tall and AT&T is proposing an 8'-tall chain link fence around the proposed equipment compound to match the existing fence.*

Q36. Identify the safety standards and/or codes by which equipment, machinery or technology that would be used or operated at the proposed facility.

A36. *The following safety standards and codes will be used:*

- a. 2015 international building code with the 2018 CT Building Code Amendments;*
- b. 2017 National Electric code (NFPA70);*
- c. 2018 CT State Fire Safety Code;*
- d. TIA/EIA-222-H "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures"; and*
- e. Occupational Safety and Health Administration (OSHA)*

Q37. Have any other wireless carriers expressed an interest in co-locating on the proposed facility?

A37. *Yes, Verizon has expressed initial interest in collocating on the Proposed Facility.*

## Coverage/Capacity

Q38. Referencing Tab 4 of the Application, RF Report, page 5, Table 2, of the existing AT&T sites listed, which sites would the proposed facility interact with?

A38. *The Proposed Facility may interact with all the Neighboring Sites listed in Table 2 of the RF report. Primarily the Proposed Facility will interact with:*

- CT1044;
- CT5118;
- CT5144;
- CT5272;
- CT5271;
- CT1017;
- CT5437; and
- CT1143.

Q39. Referencing Tab 4 of the Application, RF Report, page 5, Table 2, provide the distances and directions from the proposed site to each of the existing sites (except for CT1044, CT5118, CT5144, and CT5272).

A39. *The table below provides distances and directions from the neighboring sites to the Proposed Facility.*

Site Name	Address	City	Location		Antenna Height (ft AGL)	Structure Type	Status	Distance to Proposed (miles)
			Latitude	Longitude				
CT5121	51 Inwood Road	Rocky Hill	41.6383	-72.68	175	Monopole	On-Air	4.06
CT1141	9 Twin Oaks Drive	Cromwell	41.6232	-72.679	114	Lattice	On-Air	3.01
CT5375	1657 Berlin Turnpike	Berlin	41.6063	-72.7496	170	Monopole	On-Air	3.76
CT5144	24 Christian Hill Road	Cromwell	41.6056	-72.7019	98	Self-Support	On-Air	1.95
CT5271	101 Skyview Drive	Cromwell	41.607	-72.6771	39	Concealment Pole	On-Air	1.92
CT5381	607 Toll Gate Road	Berlin	41.5888	-72.7611	28	Rooftop	On-Air	3.94
CT1044	90 Industrial Park Road	Middletown	41.5856	-72.714	174	Monopole	On-Air	1.51
CT3470	499 Mile Lane	Middletown	41.58	-72.6858	150	Lattice	Proposed	N/A
CT5272	201 Main Street	Cromwell	41.5833	-72.6497	117	Monopole	On-Air	1.88
CT1066	97 High Street	Portland	41.5807	-72.6239	77.5	Lattice	On-Air	3.20
CT5118	1100 Country Club Road	Middletown	41.5711	-72.7283	26	Rooftop	On-Air	2.28
CT1142	290 Preston	Middletown	41.5573	-72.7433	150	Monopole	On-Air	3.36
CT1017	231 Court Street	Middletown	41.5595	-72.6511	171	Rooftop	On-Air	2.29
CT1143	228 Meriden Road	Middlefield	41.546	-72.715	133	Monopole	On-Air	2.79
CT5437	1221-8 Washington Street	Middletown	41.5494	-72.6913	64	Rooftop	On-Air	2.14
CT5280	677 Meriden Road	Middlefield	41.5353	-72.7319	135	Monopole	On-Air	3.90



Q40. Are all frequencies used to transmit voice and data?

A40. *All of the proposed frequencies are used to transmit voice and data.*

Q41. Would AT&T provide 5G services at this site, or would new antennas and/or equipment be required to provide 5G service in the future? Explain.

A41. *AT&T delivers two types of 5G-*

- *AT&T 5G, using low-band spectrum (700 MHz, 850 MHz, 1900 MHz, 2100 MHz and 2300 MHz); and*
- *AT&T 5G+, which is broadband 5G delivered via millimeter wave spectrum (24 GHz to 39 GHz).*

*The antennas that will be installed at the Proposed Facility will support 5G in the low-band spectrum. The antennas that will be installed at the Proposed Facility do not support the millimeter wave spectrum where broadband 5G+ operates.*

Q42. What are the lowest heights at which AT&T's antennas could achieve its wireless service objectives from the proposed tower and from the existing tower?

A42. *The proposed antenna centerline height of 150' is the lowest height at which AT&T could achieve its wireless service objectives. Incremental coverage would be lost if the site were to be 10' lower. The height reduction would also impact any future colocations.*

Q43. Could the required coverage and capacity upgrade needs be met by a series of small cell facilities or a distributed antenna system rather than the proposed macro tower facility?

A43. *No. Given the size of the coverage gap, the amount of coverage the Proposed Facility would provide, and the population and density characteristics of the area, it would be impractical to attempt to duplicate that coverage with small cells or a DAS. Neither alternate technology would provide long-term backup power availability either. In this case where there is already a tower on the site, the incremental visual impact of the proposed tower is minimal, and meets the State's policy goals and tower siting criteria set forth in 16-50p and 16-50aa.*

Q44. What are the existing signal strengths for 700 MHz and other proposed frequency bands within the area that AT&T is seeking to cover from the site?

A44. *Areas that AT&T is seeking to cover from the Proposed Facility are currently below ~93 dBm.*

Q45. Does AT&T have any statistics on dropped calls and/or ineffective attempts in the vicinity of the proposed facility? If so, what do they indicate? Does AT&T have any other indicators of substandard service in this area?

A45. *AT&T does not readily have statistics on dropped calls, ineffective attempts or other indicators of substandard service in the exact vicinity of the Proposed Facility. Drive testing of the network and the performance of surrounding cell sites indicates a significant gap in coverage exists.*

Q46. Referencing Attachment 4, Radio Frequency Analysis Report, p. 1, it states, "...[T]he proposed site will provide additional capacity and coverage..." With respect to capacity, please respond to the following:

- a) What nearby AT&T wireless facilities (or sectors) are nearing capacity limits and what frequencies?
- b) Please include a projected exhaustion date for each of these sectors.
- c) Would the deployment of the proposed facility be sufficient to address AT&T's capacity concerns or would an additional facility be required in the near term to off-load traffic?

A46. *While all new sites enhance both coverage and capacity, the need for the Proposed Facility is primarily driven by the significant gap in coverage and that is the justification for network development of a tower site sharing option, including the addition of a second tower at the existing tower site.*

Q47. Would flush-mounted antennas provide the required coverage? Would a flush-mount configuration result in reduced coverage and/or necessitate greater antenna height with multiple levels of antennas? Explain.

A47. *If flush mounting were to be required, AT&T would need to occupy three separate 10-foot sections of the pole, instead of just one. This would result in a loss of coverage which would necessitate a 20-foot increase in height of the monopole. This would likely also impact future colocations, which might need to also occupy 2 or 3 different levels of the tower if flush-mounted antennas were required.*

Q48. What, if any, coverage/capacity would be gained if AT&T collocated at a 180-foot antenna centerline on the existing tower versus at a 150-foot antenna centerline on a new monopole?

A48. *The table below reflects the gain in coverage that would result from installing the antennas at 180' AGL instead of the proposed 150' AGL.*

	<b>Incremental Coverage Gained by Raising Antennas from 150 feet AGL to 180 feet AGL (700 MHz)</b>	
<b>Population:<sup>1</sup></b>	(≥ -83 dBm)	310
	(≥ -93 dBm)	481
<hr/>		
<b>Business Pops:<sup>2</sup></b>	(≥ -83 dBm)	133
	(≥ -93 dBm)	296
<hr/>		
<b>Area (mi<sup>2</sup>):</b>	(≥ -83 dBm)	0.22
	(≥ -93 dBm)	0.46
<hr/>		
<b>Roadway (mi):</b>	Main (-93 dBm):	1.1
	Secondary (-93 dBm):	2.9
	<b>Total (-93 dBm):</b>	<b>4.0</b>

Q49. Referencing Attachment 4 of the Application, RF Report, page 10, provide a similar coverage plot based on AT&T co-located on the existing lattice tower.

A49. *Please see the coverage plot included as Attachment 6.*

<sup>1</sup> Population figures are based upon 2010 US Census Block Data

<sup>2</sup> Employee population counts are based upon the 2015 U.S. Census Bureau LEHD database.

Q50. Referencing Attachment 4, RF Report, page 4, Table 1, provide a similar “Incremental Coverage from Proposed Site (700 MHz)” table based on AT&T co-located on the existing tower.

A50. Please see the table below, which assumes the antennas were installed at 180’ AGL:

	<b>Incremental Coverage from Proposed Site @ 180’ AGL (700 MHz)</b>	
<b>Population:</b> <sup>3</sup>	(≥ -83 dBm)	3001
	(≥ -93 dBm)	2481
<b>Business Pops:</b> <sup>4</sup>	(≥ -83 dBm)	1151
	(≥ -93 dBm)	1187
<b>Area (mi<sup>2</sup>):</b>	(≥ -83 dBm)	2.34
	(≥ -93 dBm)	2.03
<b>Roadway (mi):</b>	Main (-93 dBm):	2.4
	Secondary (-93 dBm):	10.1
	<b>Total (-93 dBm):</b>	<b>12.5</b>

Q51. Referencing Attachment 9 of the Application, Calculated Radio Frequency Exposure, page 3, Table 1, provide AT&T’s percent maximum permissible exposure (%MPE) alone (i.e. neglecting the City of Middletown antennas).

A51. The percent maximum permissible exposure from only AT&T’s equipment on the Proposed Facility would be 7.26% MPE.

<sup>3</sup> Population figures are based upon 2010 US Census Block Data

<sup>4</sup> Employee population counts are based upon the 2015 U.S. Census Bureau LEHD database.

Q52. Referencing Attachment 9 of the Application, Calculated Radio Frequency Exposure, page 3, Table 1, provide a similar RF Power Density Analysis Table assuming AT&T is co-located on the same tower as the City.

A52. *Assuming AT&T's antennas were installed at 180', the percent maximum permissible exposure from only AT&T's equipment would be 4.97%.*

### **Backup power**

Q53. Would the backup generator have containment measures to protect against fluid leakage?

A53. *The backup power generator may be converted to a propane proposal consistent with existing City backup power sources. The proposed diesel generator incorporates a double wall tank, rupture basin alarm and built-in secondary containment features.*

Q54. What would be the respective run times for AT&T's diesel generator before it needs to be refueled, assuming it is running at full load under normal conditions?

A54. *The expected run time for the backup generator before it would need to be refueled is approximately 37 hours, based on a usage of 1.9 gallons per hour.*

Q55. Would a battery backup (if applicable) be used to provide uninterrupted power and prevent a reboot condition? How long could the battery backup alone supply power to the facility in the event that the generator fails to start?

A55. *Yes, battery backup would be used to provide uninterrupted power during a reboot condition. Battery backup alone would last approximately 8 hours, depending on actual traffic load conditions.*

Q56. Would the backup generator run periodically for maintenance purposes? If so, at what frequency and duration? Would this be scheduled for daytime hours?

A56. *Yes, the backup generator will run approximately 15-minutes once per week for maintenance purposes during daytime hours.*

Q57. Would the backup generator be managed to comply with Regulations of Connecticut State Agencies Section 22a-174-3b?

A57. *Yes, the backup emergency generator will be managed to comply with R.C.S.A. Section 22a-174-3b.*

## Public Safety

Q58. Will the proposed facility support text-to-911 service? Is additional equipment required for this purpose?

A58. *Yes, the Proposed Facility will support text-to-911 services as-built and no additional equipment is required.*

Q59. Would AT&T's antennas comply with federal E911 requirements?

A59. *Yes, AT&T will comply with federal E911 requirements.*

Q60. Would AT&T's installation comply with the intent of the Warning, Alert and Response Network Act of 2006?

A60. *The installation will comply with the Warning, Alert and Response Network Act of 2006.*

Q61. Why was the proposed site selected for FirstNet deployment?

A61. *Sites that receive FirstNet funding for original construction and deployment are selected to fill significant gaps in coverage. Buildout of these sites are prioritized based on their importance in filling critical needs as determined by public safety users. The existing coverage gaps on State Highway 3 and other heavily traveled roads in the City within the vicinity of the Proposed Facility, underscore the need for increased coverage for emergency responders.*

Q62. Describe the additional equipment necessary to operate FirstNet services.  
Environment

A62. *FirstNet services will be supported by the equipment already proposed for the facility. No additional equipment is necessary. FirstNet operates on spectrum known as Band 14. Band 14 is part of the 700 MHz band that all major wireless operators use in their networks. This specific portion of the 700 MHz spectrum is deployed by AT&T as part of the FirstNet Public-Private Partnership. Under normal circumstances, this spectrum is available to both public safety users and AT&T customers, but priority is given to public safety use. In the case of a major emergency, the entire Band 14 can be dedicated to public safety users. If Band 14 is dedicated to public safety users, 700 MHz Band 5/12 will still be available to non-public safety AT&T customers.*

Q63. Is the proposed site located within a 100-year or 500-year flood zone?

A63. *The proposed site is not located within either the 100-year or 500-year flood zones.*

Q64. Do the proposed sites contain any Prime Farmland Soils? If so, provide the total acreage of Prime Farmland Soils on the subject property, and provide the acreage of disturbance of Prime Farmland Soils for the project.

A64. *The subject property contains approximately 1.2 acres of Prime Farmland Soils. The proposed site would not disturb any portion of the Prime Farmland Soils on the site.*

Q65. Identify the nearest "Important Bird Area" as designated by the National Audubon Society?

A65. *The nearest Important Bird Area is the Meshomasic State Forest Block located approximately 5.6 miles to the northeast of the Proposed Facility.*

Q66. Would AT&T's proposed facility comply with recommended guidelines of the United States Fish and Wildlife Service for minimizing the potential for telecommunications towers to impact bird species?

A66. *After the lease was negotiated and approved by the City Common Council on August 13, 2021, AT&T conducted field reconnaissance in response to Interrogatory Question No. 72. A wetland was identified and subsequently delineated in the vicinity of the project site. It was determined that AT&T's compound, in the area initially proposed, falls within a delineated wetland.*

*In order to avoid direct wetland impacts, AT&T has shifted the location for the monopole and fenced compound approximately 120 feet to the west-northwest of the originally proposed location. Please see Attachment 7 for updated site drawings depicting this minor shift. Sheet C-2 of the updated site drawings depicts the delineated wetland and the proposed compound area*

*This minor shift in location would expand the existing compound to the north/ northeast in an area that is currently improved with pavement. This location avoids direct wetland impacts and as revised, AT&T's proposed facility would comply with all recommended USFWS guidelines.*

Q67. Provide a viewshed map to depict the projected year-round and seasonal visibility of the tower within a two-mile radius. Would the proposed tower result in any new seasonal or year-round visibility areas beyond those of the existing lattice tower? Explain.

A67. *A desktop viewshed map is enclosed as Attachment 5. The minor shift in location of the Proposed Facility would not result in an increase of areas of year-round and seasonal visibility. The existing 180' lattice tower is approximately 30' taller than the proposed monopole and AT&T's proposed equipment compound will be located immediately adjacent to the existing municipal compound.*

Q68. Where is the nearest publicly accessible recreational area from the proposed monopole? Provide the distance and describe the visibility from such location.

A68. *The nearest publicly accessible recreational area is the Middletown Bikeway, located approximately 1.23 miles northwest of the Proposed Facility. Visibility is not anticipated along any portion of the Middletown Bikeway.*

Q69. Referencing Attachment B of the Application, page 5, Section IV (b), AT&T notes that the City Planning and Zoning Commission was invited to comment on a 150-foot monopine versus a 150-foot monopole and decided that the monopole was the better option. Referencing Attachment 7 of the Application, the State Historic Preservation Office indicates installation of a 154-foot monopine tower. Explain.

A69. *The SHPO filing was made by AT&T at a time in the initial planning stages for the second tower at the site and when the City's officials wanted the option of a monopine. Thereafter, on August 11, 2021, the City of Middletown's Planning and Zoning Commission performed a C.G.S. § 8-24 review on a proposed lease in favor of the City of Middletown for space on the proposed tower. The City of Middletown's Planning and Zoning Commission granted an affirmative C.G.S. § 8-24 review for the lease agreement, finding that the proposed lease was consistent with the City of Middletown's Plan of Conservation and Development. During this meeting, the Planning and Zoning Commissioners discussed the aesthetics of a monopine tower and a monopole tower. The Commissioners indicated that the monopole tower was preferred and the Common Council's subsequent authorization for a City lease with AT&T permits a monopole installation. Notably, SHPO's no effect letter confirmed there are no historic resources in the APE of concern and as such, either a monopole or monopine can be constructed at the site and SHPO imposed no conditions related to same.*

Q70. Would the proposed facility comply with Department of Energy and Environmental Protection (DEEP) noise control standards at the property boundaries?

A70. *Yes. CT General Statutes Section 22a-69-1.8(m) exempts operation of the emergency back-up power generator from the CT DEEP noise control standards because operation of the generator for emergency back-up power purposes would be exempt from the Statute under Section 22a-69-1.8(f) and emergencies.*

*AT&T anticipates that the Proposed Facility will nonetheless comply with the DEEP Noise Control Standards at the property boundaries. Pursuant to Section 22a-69-3.5, the maximum permitted noise at the property line is approximately 55 dBA within a Class A Noise Zone, which the area surrounding the proposed Site would be classified. Additionally, Section 9(D) of Chapter 206 of the City of Middletown Code (titled "Noise") limits noise levels to 55 dBA during the day and 45 dBA at night, measured at the property line.*

*The noise emitted from the proposed Generac SDC20 emergency back-up generator measures approximately 35 dBA at the nearest property line. Therefore, operation of the proposed generator will comply with the noise control standards at the property boundaries, even though exempt. Enclosed in Attachment 8 is a Generator Noise Study, prepared by Reuter Associates LLC, dated November 16, 2021.*



Q71. Is the proposed facility located within a DEEP-designated Aquifer Protection Area?

A71. *No, the Proposed Facility is not located within an Aquifer Protection Area. The nearest APA is the John S Roth APA, located approximately 3 miles to the southeast of the site.*

Q72. Please submit photographic site documentation with notations linked to the site plans or a detailed aerial image that identify locations of site-specific and representative site features. The submission should include photographs of the site from public road(s) or publicly accessible area(s) as well as Site-specific locations depicting site features including, but not necessarily limited to, the following locations as applicable:

For each photo, please indicate the photo viewpoint direction and stake or flag the locations of site-specific and representative site features. Site-specific and representative site features include, but are not limited to, as applicable:

1. wetlands, watercourses and vernal pools;
2. forest/forest edge areas;
3. agricultural soil areas;
4. sloping terrain;
5. proposed stormwater control features;
6. nearest residences;
7. Site access and interior access road(s);
8. utility pads/electrical interconnection(s);
9. clearing limits/property lines;
10. mitigation areas; and
11. any other noteworthy features relative to the Project.

A photolog graphic must accompany the submission, using a site plan or a detailed aerial image, depicting each numbered photograph for reference. For each photo, indicate the photo location number and viewpoint direction, and clearly identify the locations of site-specific and representative site features shown (e.g., physical staking/flagging or other means of marking the subject area).

The submission shall be delivered electronically in a legible portable document format (PDF) with a maximum file size of <20MB. If necessary, multiple files may be submitted and clearly marked in terms of sequence.

A72. *Please see the Remote Field Review photo documentation report, included as Attachment 9, which was completed prior to the shift in compound plan and tower location. Photo 8A shows the area of the revised monopole location between the existing fence line and parked vehicles in the photo.*

**CERTIFICATE OF SERVICE**

I hereby certify that on this day the foregoing was sent electronically and 1 original and 15 hard copies via first class mail to the Connecticut Siting Council and sent electronically.

Dated: November 23, 2021



---

Christopher B. Fisher, Esq.  
Kristen Motel, Esq.  
Cuddy & Feder LLP  
445 Hamilton Ave, 14<sup>th</sup> Floor  
White Plains, NY 10601  
(914)-761-1300

cc: Christopher J. Forte, Esq., City of Middletown Office of the Attorney General  
AT&T, Smartlink Group

# **ATTACHMENT 1**



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White Plains, New York 10601  
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Christopher B. Fisher, Esq.  
[cfisher@cuddyfeder.com](mailto:cfisher@cuddyfeder.com)

October 29, 2021

VIA FIRST CLASS MAIL

Rhoda Bennett, Et Al  
Fir Lane  
Middletown, CT 06457

Re: New Cingular Wireless PCS, LLC ("AT&T")  
Wireless Telecommunications Tower Facility  
499 Mile Lane, Middletown, Connecticut

Dear Ms. Bennett:

Our office previously attempted to contact you on behalf of our client, New Cingular Wireless PCS, LLC ("AT&T"), with respect to the above-referenced matter. A certified return receipt envelope was sent to your attention on October 6, 2021, but a signed receipt was not returned. The address listed for you corresponds with the records on file with the Town of Middletown's Assessor's Office as an owner of property abutting the subject parcel detailed in the attached notice. This letter along with a copy of the notice sent on October 6, 2021, is being sent via first class mail in the hope that this method may be successful in reaching you.

If you have any questions concerning this information, please do not hesitate to contact us.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Chris B. Fisher', with a long horizontal flourish extending to the right.

Christopher B. Fisher

Enclosures

cc: Kristen Motel, Esq.



445 Hamilton Avenue, 14th Floor  
White Plains, New York 10601  
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cuddyfeder.com

October 6, 2021

**VIA CERTIFIED MAIL/  
RETURN RECEIPT REQUESTED**

RHODA BENNETT, ET AL  
FIR LANE  
MIDDLETOWN, CT 06457

Re: New Cingular Wireless PCS, LLC ("AT&T")  
Wireless Telecommunications Tower Facility  
499 Mile Lane, Middletown, Connecticut

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We are writing to you on behalf of our client New Cingular Wireless PCS, LLC ("AT&T") with respect to the above referenced matter. You may recall that we wrote to you on September 28, 2021 advising you of AT&T's tower site sharing request and petition for a declaratory ruling to be filed with the State of Connecticut Siting Council ("CSC"). That filing was made on September 30, 2021 and assigned Petition No. 1465.

The purpose of this second letter is to notify you in accordance with state statute that AT&T has elected to convert the Petition into an Application for a Certificate of Environmental Compatibility and Public Need ("Certificate") and which has been assigned Docket Number 506. This conversion is being made at the request of the City to give you as abutting property owners a greater opportunity to have your comments considered by the CSC and ensures that a public hearing will be conducted by the CSC.

None of the details of AT&T's proposal to install a second tower at the City owned property at 499 Mile Lane in Middletown have changed as part of this procedural conversion into a full Certificate application. The location, height and other features of the Facility are subject to review and potential change by the CSC under the provisions of Connecticut General Statutes §16-50g et seq. We encourage you to review the CSC's website where copies of the application materials can be found and please do not hesitate to contact us.

Very truly yours,

A handwritten signature in black ink, appearing to read "Chris B. Fisher", is written over a horizontal line.

Christopher B. Fisher  
Enclosure

cc: Kristen Motel, Esq., Cuddy & Feder LLP

## NOTICE

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AT&T seeks to install a second shorter tower at the existing City of Middletown tower site within an expanded compound adjacent thereto ("Facility"). The Facility is proposed on an approximately 23.72-acre parcel located at 499 Mile Lane in Middletown, Connecticut and owned by the City of Middletown that was previously part of the U.S. Army Reserve Center and is now serving in part as a fire training site. The City of Middletown's existing communications facility consists of an approximately 180' lattice tower and a fenced equipment compound. AT&T proposes to share the site and modify the existing facility by installing a 150' monopole tower immediately adjacent to the existing tower, with nine (9) antennas at a centerline height of approximately 150' above ground level ("AGL"). The monopole and expanded equipment compound are being designed to accommodate future collocations by additional wireless carriers. Associated unmanned equipment will be located within a 50-foot by 50-foot expanded area of the existing fenced equipment compound. Vehicle access to AT&T's Facility would remain the same along the existing paved access drive that extends south of Mile Lane.

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The Facility is proposed to allow wireless services to AT&T customers and first responders in the northern area of Middletown, particularly along Mile Lane, State Highway 3, Ridgewood Road and the surrounding roads, businesses, schools and neighborhoods. The Application materials further detail the need, purpose and benefits of the Facility and also describes the environmental impacts of the proposed Facility.

Interested parties and residents of Middletown, Connecticut are invited to review the Application materials as converted during normal business hours after October 6, 2021 at the following offices:

Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

City & Town Clerk of Middletown  
Ashley Flynn-Natale  
City Hall 1<sup>st</sup> Floor  
245 DeKoven Drive  
Middletown, CT 06457

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Christopher B. Fisher, Esq.  
Cuddy & Feder LLP  
445 Hamilton Ave, 14th Floor  
White Plains, New York 10601  
(914) 761-1300  
Attorney for the Applicant



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Christopher B. Fisher, Esq.  
[cfisher@cuddyfeder.com](mailto:cfisher@cuddyfeder.com)

October 29, 2021

VIA FIRST CLASS MAIL

City of Middletown  
200 Larosa Lane  
Middletown, CT 06457

Re: New Cingular Wireless PCS, LLC ("AT&T")  
Wireless Telecommunications Tower Facility  
499 Mile Lane, Middletown, Connecticut

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Christopher B. Fisher

Enclosures

cc: Kristen Motel, Esq.



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White Plains, New York 10601  
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October 6, 2021

**VIA CERTIFIED MAIL/  
RETURN RECEIPT REQUESTED**

CITY OF MIDDLETOWN  
200 LAROSA LANE  
MIDLETOWN, CT 06457

Re: New Cingular Wireless PCS, LLC ("AT&T")  
Wireless Telecommunications Tower Facility  
499 Mile Lane, Middletown, Connecticut

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Enclosure

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Attorney for the Applicant



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Christopher B. Fisher, Esq.  
[cfisher@cuddyfeder.com](mailto:cfisher@cuddyfeder.com)

October 29, 2021

VIA FIRST CLASS MAIL

Old Colony one of Wallingford LLC  
Ridgewood Road  
Middletown, CT 06492

Re: New Cingular Wireless PCS, LLC ("AT&T")  
Wireless Telecommunications Tower Facility  
499 Mile Lane, Middletown, Connecticut

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Christopher B. Fisher

Enclosures

cc: Kristen Motel, Esq.



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

October 6, 2021

**VIA CERTIFIED MAIL/  
RETURN RECEIPT REQUESTED**  
OLD COLONY ONE OF WALLINGFORD LLC  
RIDGEWOOD ROAD  
MIDDLETOWN, CT 06492

Re: New Cingular Wireless PCS, LLC ("AT&T")  
Wireless Telecommunications Tower Facility  
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Christopher B. Fisher  
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Christopher B. Fisher, Esq.  
Cuddy & Feder LLP  
445 Hamilton Ave, 14th Floor  
White Plains, New York 10601  
(914) 761-1300  
Attorney for the Applicant

# **ATTACHMENT 2**

---

# STRUCTURAL CALCULATIONS

Prepared for: Smartlink / AT&T

## New Antenna and Equipment Installation on Self-Support Tower

Site No: CT3470A

FA No: 10578361

USID: 221794

Site Name: Mile LN\_Middletown

499 Mile Lane

Middletown, CT 06457

January 7, 2019

## Tower Modification Required

**Henry M. Bellagamba, P.E.**

---

**FULLERTON**  
ENGINEERING • DESIGN

**Fullerton Engineering Consultants, Inc.**  
1100 E. Woodfield Road, Suite 500  
Schaumburg, IL 60173  
Tel: 847.908.8400  
[www.fullertonengineering.com](http://www.fullertonengineering.com)  
Project Number: 2018.0265.E023

## Summary

---

A structural analysis was performed by Fullerton, as requested by the client, to determine the conformance of existing structure with the governing building code, 2018 Connecticut State Building Code (2015 International Building Code) and the industry standard, ANSI/TIA-222-G (Structural Standard for Steel Antenna Supporting Structures and Antennas). The analysis considers the tower properties, existing and proposed appurtenances and the required loading criteria.

## Conclusion

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- The tower member stresses are **NOT** in conformance for the loading considered.
- The tower foundation was not analyzed due to a lack of geotechnical information.

## Analysis Data

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The following is based on information provided by the client, field investigation, and other determination by Fullerton Engineering Consultants or third parties.

**Configuration**                    180 ft. Self-Support tower with a 5' top and 13' bottom face width.

**References**                        RF Design Sheet by AT&T, dated 10/3/2018.

Original Tower Construction Drawings by Valmont Structures, Eng. File No. 337273,  
Drawings No. 276371T & 276371F, dated 9/18/2017.

# Appurtenance Loading Schedule

ELEV. (FT.=AGL)	APPURTENANCE	TRANSMISSION LINES
	Proposed AT&T	
180'	(6) KMW EPBQ-654L8H8-L2 antennas (3) CCI HPA65R-BU8A antennas (3) Ericsson RRUS-4478 B14 units (3) Ericsson RRUS-4415 B30 units (3) Ericsson RRUS-4449 B5/B12 units (3) Ericsson RRUS-8843 B2/B66A units (3) Ericsson RRUS-E2 units (3) Raycap DC6-48-60-18-8F units Mounted on proposed (3) Sector Frames	(2) 3/8" Fiber (6) 3/4" DC Power
	Existing (to remain)	
182'	(1) Lightning Rod Mounted on tower leg	
157.225' 150'	(1) Sinclair SC479-HF1LDF RX antenna (1) Motorola TTA (DS428E83I01T) unit Mounted on existing (1) 6' Standoff Mount Frame with Stiff Arm	(1) 1/2" coax (1) 7/8" coax
137.225' 130'	(1) Sinclair SC479-HF1LDF TX antenna Mounted on existing (1) 6' Standoff Mount Frame with Stiff Arm	(1) 7/8" coax
130'	(1) Radiowaves HP3-11 dish Mounted on existing (1) Pipe Mount to Tower Leg	(1) EW90
121.58' 110'	(1) Sinclair SC229-DFLN VHF antenna Mounted on existing (1) 6' Standoff Mount Frame with Stiff Arm	(1) 7/8" coax
95'	(1) Radiowaves HP3-11 dish Mounted on existing (1) Pipe Mount to Tower Leg	(1) EW90



## Results

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The results of the structural analysis are summarized as follows:

### Tower mast

The tower leg members are **NOT adequate** for new loads, with a maximum stress ratio of 252.3% @ Elev. 120'-140' AGL.

The tower leg bolts are **NOT adequate** for new loads, with a maximum stress ratio of 120.2% @ Elev. 80' AGL.

The tower main diagonal members are **NOT adequate** for new loads, with a maximum stress ratio of 111.5% @ Elev. 80'-100' AGL.

The tower diagonal bolts are **NOT adequate** for new loads, with a maximum stress ratio of 124.9% @ Elev. 140'-160' AGL.

The tower top girt members are **adequate** for new loads, with a maximum stress ratio of 14.8% @ Elev. 180' AGL.

### Anchor Rods

The anchor rods are **NOT adequate** for new loads, with a maximum stress ratio of 109.73%.

### Foundation

The tower foundations were **NOT analyzed** due to a lack of geotechnical information.

## Assumptions

---

This analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. The analysis is based solely on the information supplied, and the results, in turn, are only as accurate as data extracted from this information. Fullerton has been instructed by the client to assume the information supplied is accurate, and Fullerton has made no independent determination of its accuracy. The exception to the previous statement is if Fullerton has been contracted by the client to provide an independent structural mapping report of the tower and related appurtenances, in which case Fullerton has made an independent determination of the accuracy of the information resulting from the mapping report.

- The tower member sizes and geometry are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and stated in the materials section.
- The existing tower is assumed to have been properly maintained in accordance with the TIA/EIA standard and/or its original manufacturer's recommendations. The existing tower is assumed to be in good condition with no structural defects and with no deterioration to its member capacities.
- The antenna configuration is as supplied and/or stated in the analysis section. It is assumed to be complete and accurate. All antennas, mounts, remote radios, cables and cable supports are assumed to be properly installed and supported as per the manufacturer's requirements.
- The antennas, mounts, remote radios, cables and cable supports and lines stated in the appurtenance loading schedule represent Fullerton's understanding of the overall antenna configuration. If the actual configuration is different than above, then this analysis is invalid. Please refer to this report for the projected wind areas used in the calculations for antennas and mounts. If variations or discrepancies are identified, please inform Fullerton.
- Some assumptions are made regarding antenna and mount sizes and their projected areas based on a best interpretation of the data supplied and a best knowledge of antenna type and industry practice.
- The existing foundation is assumed to be in good condition with no structural defects and with no deterioration to its member capacities.
- The soil parameters are as per data supplied, or as assumed, and stated in the calculations.
- All welds and connections are assumed to develop at least the member capacity, unless determined otherwise and explicitly stated in this report.
- All prior structural modifications, if any, are assumed to be as per date supplied/ available, to be properly installed and to be fully effective.

## Scope and Limitations

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The engineering services rendered by Fullerton Engineering Consultants, Inc. (Fullerton) in connection with this structural analysis are limited to an analysis of the structure, size and capacity of its members. Fullerton does not analyze the fabrication, including welding and connection capacities, except as included in this report.

The information and conclusions contained in this report were determined by application of the current engineering standards and analysis procedures and formulae, and Fullerton assumes no obligation to revise any of the information or conclusions contained in this report in the event such engineering and analysis procedures and formulae are hereafter modified or revised.

Fullerton makes no warranties, expressed or implied in connection with this report and disclaims any liability arising from original design, material, fabrication and erection deficiencies or the “as-built” condition of this tower. Fullerton will not be responsible whatsoever for or on account of consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report.

Installation procedures and loading are not within the scope of this report and should be performed and evaluated by a competent tower erection contractor.

# ATTACHMENT 3

Market: New England  
Cell Site Number: S3470A  
Cell Site Name: Middletown – Mile Lane  
Search Ring Name: NSB at Middletown  
Fixed Asset Number: [REDACTED]

## OPTION AND LAND LEASE AGREEMENT

THIS OPTION AND LAND LEASE AGREEMENT (“**Agreement**”), dated as of the latter of the signature dates below (the “**Effective Date**”), is entered into by City of Middletown, a municipal corporation and political subdivision of the State of Connecticut, having a mailing address of 245 deKoven Drive Middletown, CT 06457 (“**Landlord**”) and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319 (“**Tenant**”).

### BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at 499 Mile Lane, in the City of Middletown, County of Middlesex, State of Connecticut (collectively, the “**Property**”). Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

#### 1. OPTION TO LEASE.

(a) Landlord hereby grants to Tenant an option (the “**Option**”) to lease a portion of the Property consisting of:

- (i) approximately 2,500 square feet including the air space above such space, as described on attached **Exhibit 1**, for the placement of Tenant’s Communication Facility;
- (ii) space for any structural steel or other improvements to support Tenant’s equipment (collectively, the space referenced in (a) and (b) is the “**Equipment Space**”);
- (iii) that certain space on the Structure (as hereinafter defined), as generally depicted on **Exhibit 1**, each measuring twenty (20) contiguous linear feet wide and ten (10) contiguous linear feet deep, including the air space above same, where Tenant shall have the right to install its antennas and other equipment (collectively, the “**Antenna Space**”); and
- (iv) those certain areas where Tenant’s conduits, wires, cables, cable trays and other necessary connections are located between the Equipment Space and the Antenna Space, and between the Equipment Space and the electric power, telephone, and fuel sources for the Property (hereinafter collectively referred to as the “**Connection Space**”). Landlord agrees that Tenant shall have the right to install connections between Tenant’s equipment in the Equipment Space and Antenna Space; and between Tenant’s equipment in the Equipment Space and the electric power, telephone, and fuel sources for the Property, and any other improvements. Landlord further agrees that Tenant shall have the right to install, replace and maintain utility lines, wires, poles, cables, conduits, pipes and other necessary connections over or along any right-of-way extending from the aforementioned public right-of-way to the Premises. The Equipment Space, Antenna Space, and Connection Space, are hereinafter collectively referred to as the “**Premises.**”

(b) During the Option period and any extension thereof, and during the term of this Agreement, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property, with the written consent of the Landlord, which consent shall not be unreasonably withheld, conditioned or delayed, to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the “**Tests**”), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant’s sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances,

amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, at Tenant's sole expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Initial Option Term (as defined below), reasonable wear and tear and casualty not caused by Tenant excepted. In addition, Tenant shall indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or claims arising directly out of Tenant's Tests.

(c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of [REDACTED] within thirty (30) business days of the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (the "**Initial Option Term**") and may be renewed by Tenant for an additional one (1) year upon written notification to Landlord and the payment of an additional [REDACTED] no later than ten (10) days prior to the expiration date of the Initial Option Term.

(d) The Option may be sold, assigned or transferred at any time by Tenant to Tenant's parent company or member if Tenant is a limited liability company or any affiliate or subsidiary of, or partner in, Tenant or its parent company or member. Otherwise, the Option may not be sold, assigned or transferred without the approval of the Common Council for the City of Middletown. Any attempt to assign the Option or this Agreement without such approval will render such assignment null and void, unless such assignment is otherwise permitted under this Section 1(d) or Section 16 of this Agreement. From and after the date the Option has been sold, assigned or transferred by Tenant in accordance with this Section or Section 16 of this Agreement, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due after the date of assignment, without any further action.

(e) During the Initial Option Term and any extension thereof, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord leases the Premises to the Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, this Agreement will terminate, and the parties will have no further liability to each other.

(f) If during the Initial Option Term or any extension thereof, or during the term of this Agreement if the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises or Property or in the event of foreclosure, Landlord shall immediately notify Tenant in writing. Any sale of the Property shall be subject to Tenant's rights under this Agreement.

## 2. PERMITTED USE.

Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure ("**Structure**"), associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (the "**Communication Facility**") as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, (collectively, the "**Permitted Use**"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 1** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 1** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 1**. For a period of one hundred eighty (180) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**") as may reasonably be required during construction and installation of the Communication Facility, as designated in **Exhibit 1**. Tenant has the

right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, install a generator and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted use, including the right to construct a fence around the Premises or equipment, install warning signs to make individuals aware of risks, install protective barriers, install any other control measures reasonably required by Tenant's safety procedures or applicable law, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes) or relocate the Communication Facility within the Premises at any time during the Term. Tenant will be allowed to make such alterations to the Property, with the written consent of the Landlord in order to ensure that the Communication Facility complies with all applicable federal, state or local laws, rules or regulations.

### 3. TERM.

(a) The initial lease term will be five (5) years (the "**Initial Term**"), commencing on the Effective Date. The Initial Term will terminate on the fifth (5th) anniversary of the Effective Date.

(b) This Agreement will automatically renew for five (5) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or the then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("**Annual Term**") until terminated by either party hereto by giving to the other party hereto written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the "**Term.**"

### 4. RENT.

(a) Commencing on the first day of the month following the date that Tenant commences construction (the "**Rent Commencement Date**"), Tenant will pay Landlord on or before the fifth (5<sup>th</sup>) day of each calendar month in advance, [REDACTED] (the "**Rent**"), at the address set forth above. In any partial month occurring **prior to or** after the Rent Commencement Date, the Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.

(b) Upon the commencement of each Extension Term, the monthly Rent will increase by two percent (2%) over the Rent paid during the previous five (5) year term.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord

### 5. APPROVALS.

(a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for the Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for the Permitted Use and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice, at Tenant's sole expense.

(c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.

6. **TERMINATION.** This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 155 of this Agreement after the applicable cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain, or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable;

(c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;

(d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or

(e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: Section 5 Approvals, Section 6(a) Termination, Section 6(b) Termination, Section 6(c) Termination, Section 6(d) Termination, Section 11(d) Environmental, Section 08 Condemnation or Section 19 Casualty.

7. **INSURANCE.** During the Term, Tenant will purchase and maintain in full force and the insurance described in attached Exhibit 2.

8. **INTERFERENCE.**

(a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

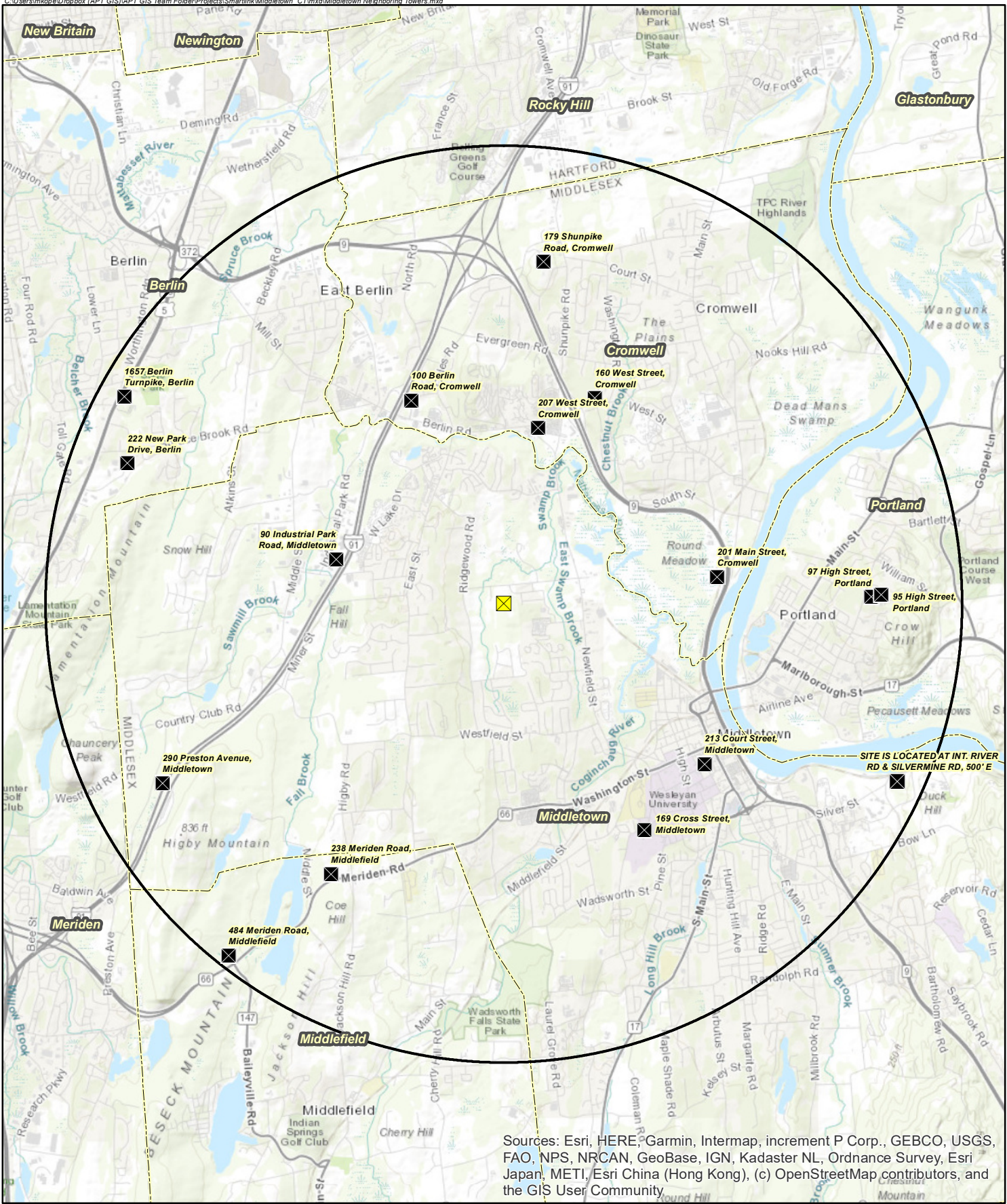
(b) Landlord will not grant, after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.

(c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.

(d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.



# ATTACHMENT 4



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

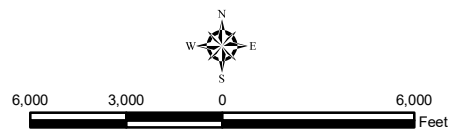
**Legend**

- Proposed Facility
- Municipal Boundary
- Existing Towers Within 4 Miles of Proposed Facility
- 4-Mile Radius

**Existing Adjacent Towers**

Proposed Wireless Telecommunications Facility  
 Middletown\_Mile Lane  
 499 Mile Lane  
 Middletown, Connecticut

Base Map Source: ESRI World Topographic Map  
 Data Sources: CSC Tower Database, Updated March 2020;  
 FCC ASR GIS Database, Updated 2012  
 Map Scale: 1 inch = 6,000 feet  
 Map Date: November 2021



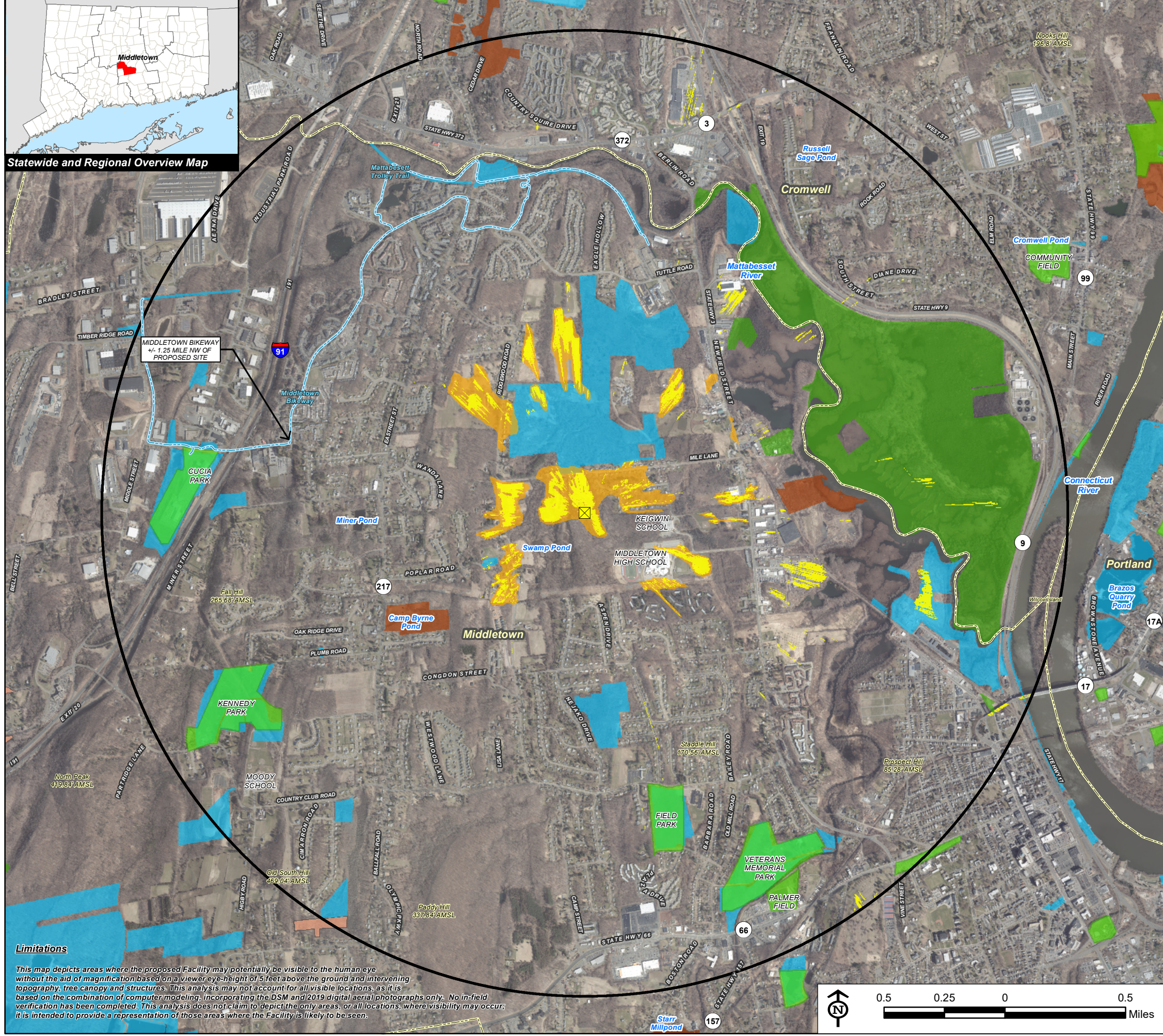
**Existing Adjacent Towers within Four Miles**

Proposed Wireless Telecommunications Facility  
 Middletown\_Mile Lane  
 499 Mile Lane  
 Middletown, Connecticut

Data Sources: CSC Tower Database, Updated March 2020;  
 FCC ASR GIS Database, Updated 2012

Town	Address	Alternate Address	Latitude	Longitude	Owner	Type	Tower Height (Feet AGL)	Ground Elevation (Feet AMSL)
Middlefield	484 Meriden Road		41.53553333	-72.73211389	Land Management Inc	monopole	45	427
Middlefield	238 Meriden Road	238 Meridan Road	41.54583333	-72.71491667	Sprint	monopole	120	n/a
Middletown	169 Cross Street		41.55137170	-72.66213530	City of Middletown	self-support lattice	180	n/a
Middletown	290 Preston Avenue		41.55735278	-72.74326389	AT&T	monopole	150	370
Middletown	213 Court Street	200 Court Street	41.55972222	-72.65194444	Middlesex Mutual Ass. Co.	rooftop	207	67
Portland	97 High Street		41.58083333	-72.62388889	SNET/SCLP	self-support lattice	80	340
Portland	95 High Street		41.58111111	-72.62222222	Town of Portland	monopole	120	n/a
Cromwell	201 Main Street		41.58336111	-72.64983333	Sprint	monopole	125	n/a
Middletown	90 Industrial Park Road		41.58564722	-72.71397778	Crown Castle	monopole	185	n/a
Berlin	222 New Park Drive		41.59777778	-72.74916667	TCI Cable	n/a	n/a	192
Cromwell	207 West Street		41.60222222	-72.68000000	Tahir Choudhry	monopole	54	23
Cromwell	100 Berlin Road	Christian Hill Road	41.60569444	-72.70136944	Shaner Hotel Group	self-support lattice	83	n/a
Cromwell	160 West Street		41.60599167	-72.67038056	SBA	monopole	76	132
Cromwell	179 Shunpike Road		41.62323056	-72.67902778	Cromwell Fire District	self-support lattice	170	272
Berlin	1657 Berlin Turnpike	1657 Wilbur Cross Highway	41.60621667	-72.74968611	Berlin Fire Dept	monopole	180	n/a
Portland	Intersection of River Road & Silvermine Road		41.5575000	-72.6195000	Crossroads Communications of Old Saybrook, Inc. DBA= WMRD-AM(1),CBA 17, FAA MOD	Guyed	221	n/a

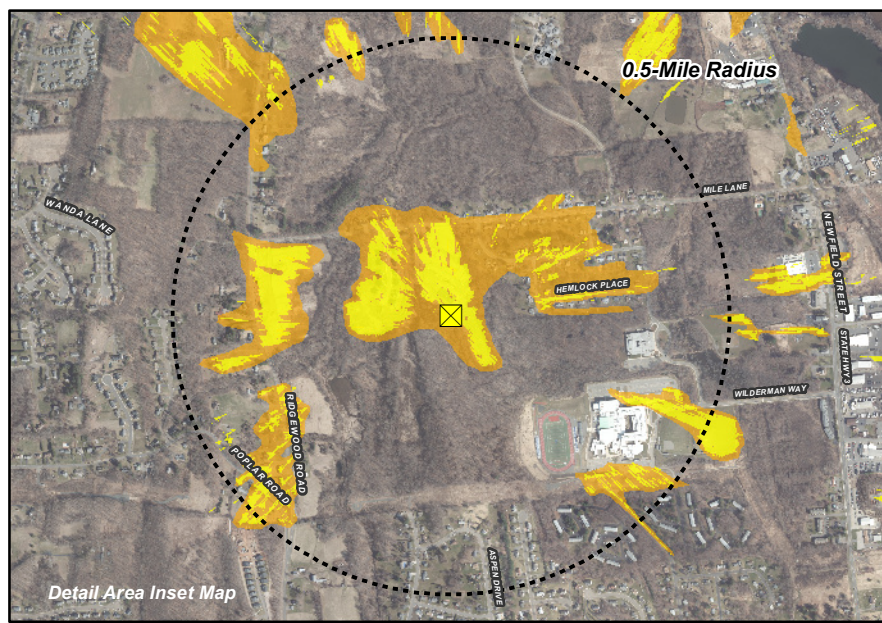
# ATTACHMENT 5



Statewide and Regional Overview Map

**Limitations**

This map depicts areas where the proposed Facility may potentially be visible to the human eye without the aid of magnification based on a viewer eye-height of 5 feet above the ground and intervening topography, tree canopy and structures. This analysis may not account for all visible locations, as it is based on the combination of computer modeling, incorporating the DSM and 2019 digital aerial photographs only. No in-field verification has been completed. This analysis does not claim to depict the only areas, or all locations, where visibility may occur; it is intended to provide a representation of those areas where the Facility is likely to be seen.



Detail Area Inset Map

**Preliminary Viewshed Analysis Map**

Proposed Wireless Telecommunications Facility  
 Middletown\_Mile Lane  
 499 Mile Lane  
 Middletown, Connecticut

Proposed facility height is 150 feet AGL.  
 Forest canopy height is derived from LIDAR data.  
 Study area encompasses a two-mile radius and includes 8,042 acres.  
 Information provided on this map has not been field verified  
 Base Map Source: 2019 Aerial Photograph (CTECO)  
 Map Date: November 2021

**Legend**

- Proposed Site
- Study Area (2-Mile Radius)
- Predicted Year-Round Visibility (90 Acres)
- Areas of Potential Seasonal Visibility (122 Acres)
- Municipal Boundary
- Trail
- Scenic Highway
- DEEP Boat Launches
- Municipal and Private Open Space Property
- State Forest/Park
- Protected Open Space Property**
- Federal
- Land Trust
- Municipal
- Private
- State

**Data Sources:**

**Physical Geography / Background Data**  
 A digital surface model (DSM) was created from the State of Connecticut 2016 LIDAR LAS data points. The DSM captures the natural and built features on the Earth's surface.

Municipal Open Space, State Recreation Areas, Trails, County Recreation Areas, and Town Boundary data obtained from CT DEEP. Scenic Roads: CTDOT State Scenic Highways (2015); Municipal Scenic Roads (compiled by APT)

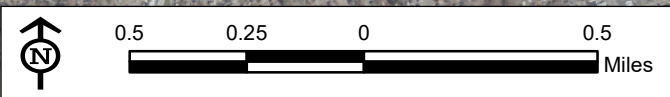
**Dedicated Open Space & Recreation Areas**  
 Connecticut Department of Energy and Environmental Protection (DEEP): DEEP Property (May 2007); Federal Open Space (1997); Municipal and Private Open Space (1997); DEEP Boat Launches (1994)

Connecticut Forest & Parks Association, Connecticut Walk Books East & West

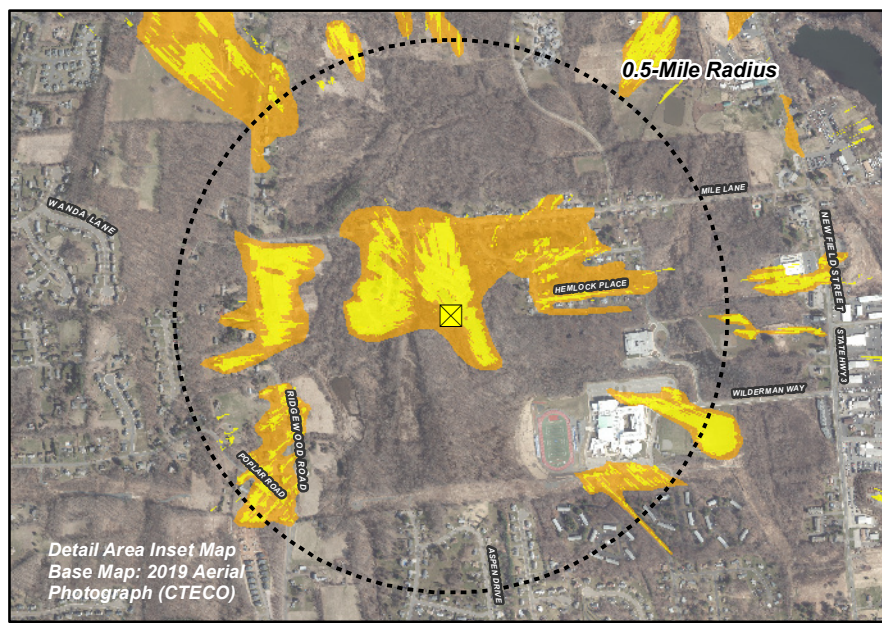
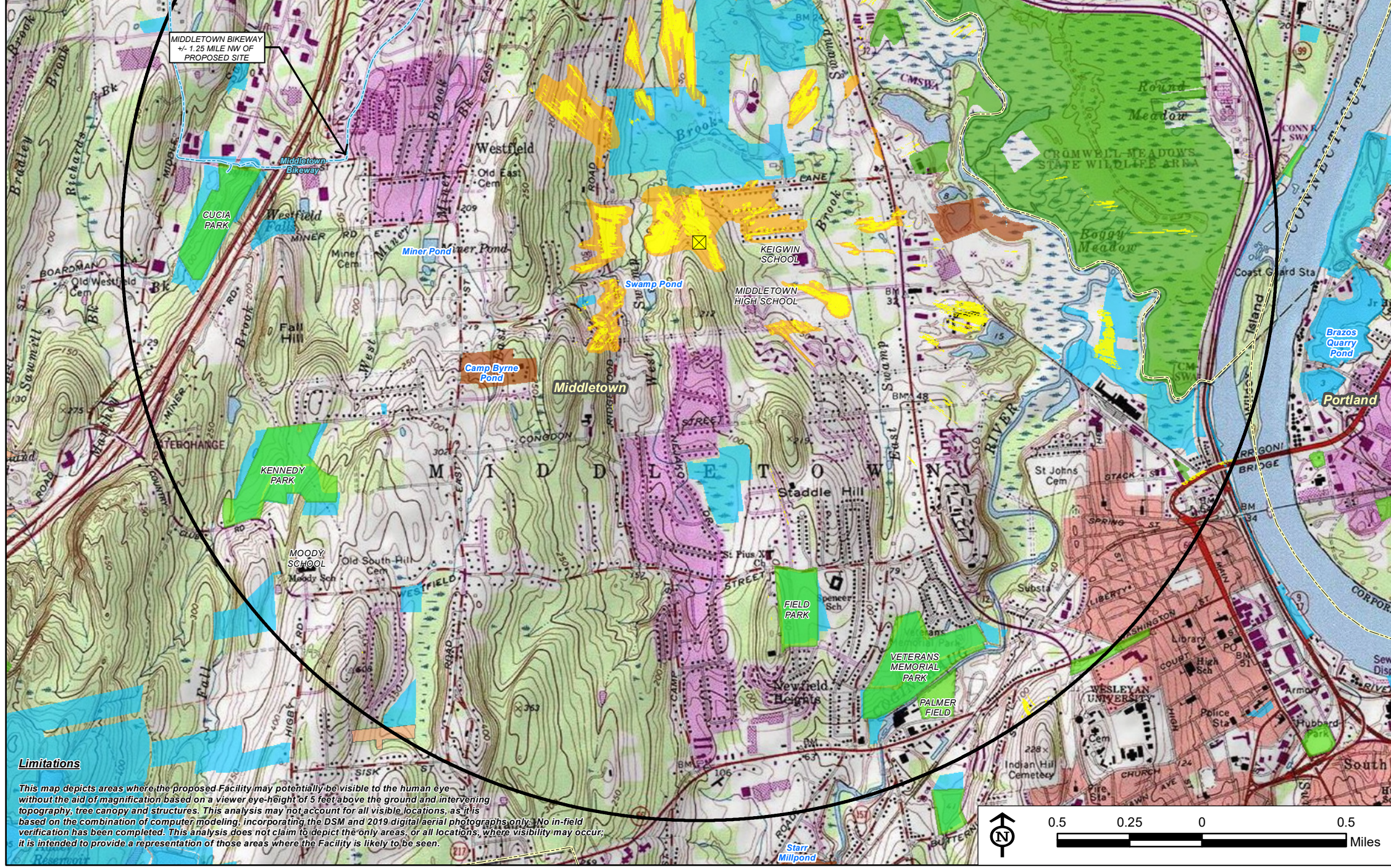
**Other**  
 CTDOT Scenic Strips (based on Department of Transportation data)

**Notes**

\*\*Not all the sources listed above appear on the Viewshed Maps. Only those features within the scale of the graphic are shown.



**Statewide and Regional Overview Map**



**Preliminary Viewshed Analysis Map**

Proposed Wireless Telecommunications Facility  
 Middletown\_Mile Lane  
 499 Mile Lane  
 Middletown, Connecticut

Proposed facility height is 150 feet AGL.  
 Forest canopy height is derived from LIDAR data.  
 Study area encompasses a two-mile radius and includes 8,042 acres.  
 Information provided on this map has not been field verified  
 Base Map Source: USGS 7.5 Minute Topographic Quadrangle Map, Middletown, CT (1992)  
 Map Date: November 2021

**Legend**

- Proposed Site
- Study Area (2-Mile Radius)
- Predicted Year-Round Visibility (90 Acres)
- Areas of Potential Seasonal Visibility (122 Acres)
- Municipal Boundary
- Trail
- Scenic Highway
- DEEP Boat Launches
- Municipal and Private Open Space Property
- State Forest/Park
- Protected Open Space Property**
- Federal
- Land Trust
- Municipal
- Private
- State

**Data Sources:**

**Physical Geography / Background Data**  
 A digital surface model (DSM) was created from the State of Connecticut 2016 LiDAR LAS data points. The DSM captures the natural and built features on the Earth's surface.

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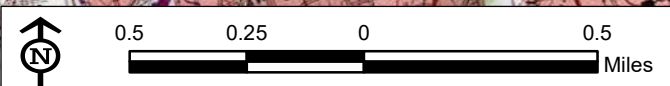
**Dedicated Open Space & Recreation Areas**  
 Connecticut Department of Energy and Environmental Protection (DEEP): DEEP Property (May 2007); Federal Open Space (1997); Municipal and Private Open Space (1997); DEEP Boat Launches (1994)

Connecticut Forest & Parks Association, Connecticut Walk Books East & West

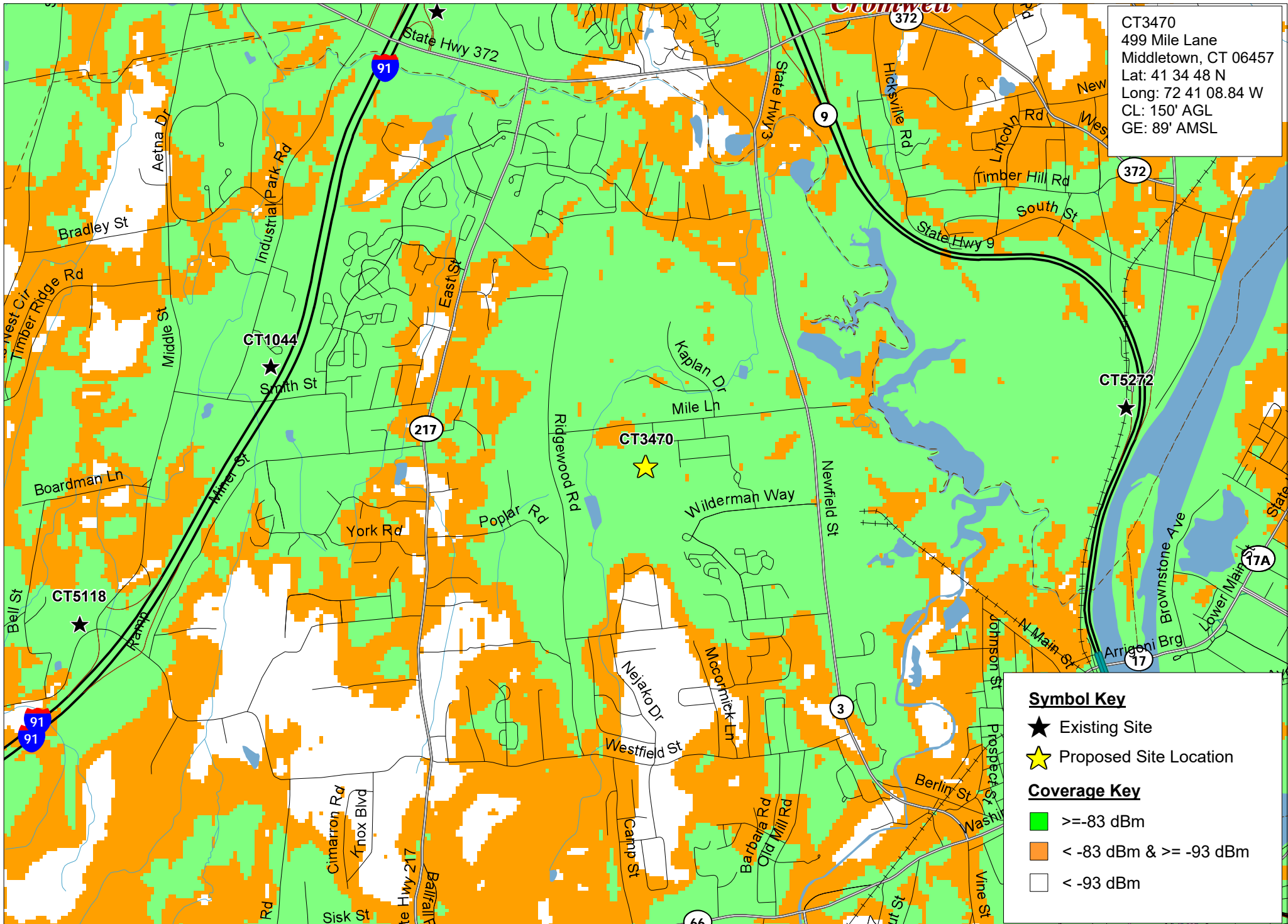
**Other**  
 CTDOT Scenic Strips (based on Department of Transportation data)

**Notes**  
 \*\*Not all the sources listed above appear on the Viewshed Maps. Only those features within the scale of the graphic are shown.

**Limitations**  
 This map depicts areas where the proposed Facility may potentially be visible to the human eye without the aid of magnification based on a viewer eye-height of 5 feet above the ground and intervening topography, tree canopy and structures. This analysis may not account for all visible locations, as it is based on the combination of computer modeling, incorporating the DSM and 2019 digital aerial photographs only. No in-field verification has been completed. This analysis does not claim to depict the only areas, or all locations, where visibility may occur; it is intended to provide a representation of those areas where the Facility is likely to be seen.



# ATTACHMENT 6



CT3470  
 499 Mile Lane  
 Middletown, CT 06457  
 Lat: 41 34 48 N  
 Long: 72 41 08.84 W  
 CL: 150' AGL  
 GE: 89' AMSL

**Symbol Key**

- ★ Existing Site
- ★ Proposed Site Location

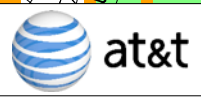
**Coverage Key**

- $\geq -83$  dBm
- $< -83$  dBm &  $\geq -93$  dBm
- $< -93$  dBm

Existing & Proposed @180  
700 MHz Coverage

CT3470

499 Mile Lane  
Middletown, CT



PREPARED ON	
DATE: 11/11/2021	REV 0



# ATTACHMENT 7

**PROJECT INFORMATION**

SCOPE OF WORK: TELECOMMUNICATIONS FACILITY (NSB A PROPOSED 150'-0" A.G.L. TALL MONOPOLE, PROPOSED WALK-IN CABINET, AND GENERATOR WILL BE INSTALLED AT GRADE INSIDE A EXISTING FENCED-IN COMPOUND. PROPOSED (3) TPA65R-BU8DA-K ANTENNAS, (3) HPA65R-BU8A ANTENNAS, (3) DMP65R-BU8DA-K ANTENNAS, (3) 4478-B14 RRH'S, (3) FUTURE E2 RRH'S, (3) 4415 B30 RRH'S, (3) 4449 B5/B12 RRH'S, (3) 8843 B2/B66A RRH'S, (2) DC6-48-60-18-8C-EV SURGE ARRESTORS, & (1) DC6-48-60-0-8C-EV WILL BE INSTALLED AT A HEIGHT OF 150'-0" A.G.L.):

SITE ADDRESS: 499 MILE LANE  
MIDDLETOWN, CT 06457

APPLICANT: AT&T  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

SITE OWNER: CITY OF MIDDLETOWN  
245 DEKOVEN DRIVE  
MIDDLETOWN, CT 06457

LATITUDE: 41.58026 N, 41° 34' 48.9" N

LONGITUDE: 72.68605 W, 72° 41' 09.8" W

TYPE OF SITE: MONOPOLE/ WALK-IN CABINET

TOWER HEIGHT: 150'-0"±

RAD CENTER: 150'-0"±

APPLICABLE CODES: ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE CT STATE BUILDING CODE, NATIONAL ELECTRIC CODE (NEC 2017), ANSI/EIA/TIA-222 H & COMPLY WITH AT&T MOBILITY SPECIFICATIONS



**SITE NUMBER: CT3470A**

**SITE NAME: MIDDLETOWN\_MILE LANE**

**FA CODE:10578361**

**PACE ID: MRCTB033524, MRCTB036341, MRCTB036593, MRCTB036513, MRCTB036367, MRCTB047889**

**PROJECT: NSB**

**DRAWING INDEX**

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	3
GN-1	GENERAL NOTES	3
SN-1	STRUCTURAL NOTES	3
C-1	ABUTTERS PLAN	3
C-2	EXISTING CONDITIONS PLAN	3
A-1	COMPOUND & EQUIPMENT PLAN	3
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**VICINITY MAP**

**DIRECTIONS TO SITE:**  
DEPART NORTHEAST, TURN RIGHT AND THEN IMMEDIATELY TURN LEFT ONTO LEGGATT MCCALL CONNECTOR ROAD, BEAR LEFT ONTO BURR ST, TURN LEFT ONTO MA-30 / COCHITUATE RD, TAKE RAMP RIGHT FOR I-90 EAST / I-90 WEST TOWARD BOSTON / SPRINGFIELD, AT EXIT 9 TAKE RAMP RIGHT FOR I-84 TOWARD HARTFORD / NEW YORK CITY, KEEP LEFT ONTO CT-15 S / WILBUR CROSS HWY S, KEEP STRAIGHT ONTO US-5 S / CT-15 S / WILBUR CROSS HIGHWAY S, AT EXIT 86 TAKE RAMP RIGHT FOR I-91 SOUTHBOUND, AT EXIT 21 TAKE RAMP RIGHT FOR CT-372 TOWARD CROMWELL / MIDDLETOWN, TURN LEFT ONTO CT-372 / BERLIN ROAD TOWARD CROMWELL / MIDDLETOWN, TURN RIGHT ONTO CT-217 / EAST STREET, TURN LEFT ONTO RIDGEWOOD RD, ARRIVE AT RIDGEWOOD ROAD



**GENERAL NOTES**

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

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**SITE NUMBER: CT3470A**  
**SITE NAME: MIDDLETOWN\_MILE LANE**

499 MILE LANE  
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**GROUNDING NOTES**

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

**GENERAL NOTES**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – SMARTLINK  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. **APPLICABLE BUILDING CODES:**  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2015 WITH 2018 CT STATE BUILDING CODE AMENDMENTS  
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)**

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

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

**AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;**

**TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL**

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

**ABBREVIATIONS**

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



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 MIDDLESEX COUNTY



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**GENERAL NOTES  
 (NSB)**

SITE NUMBER	DRAWING NUMBER	REV
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**STRUCTURAL NOTES:**

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

**SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):**

**GENERAL:** WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

**NOTES:**

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"Ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

**NOTES:**

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
- PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

**SPECIAL INSPECTION CHECKLIST**

**BEFORE CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
<b>REQUIRED</b>	ENGINEER OF RECORD APPROVED SHOP DRAWINGS <sup>1</sup>
<b>REQUIRED</b>	MATERIAL SPECIFICATIONS REPORT <sup>2</sup>
N/A	FABRICATOR NDE INSPECTION
<b>REQUIRED</b>	PACKING SLIPS <sup>3</sup>

ADDITIONAL TESTING AND INSPECTIONS:

**DURING CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
<b>REQUIRED</b>	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS <sup>4</sup>
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION <sup>5</sup>
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT

ADDITIONAL TESTING AND INSPECTIONS:

**AFTER CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
<b>REQUIRED</b>	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS <sup>6</sup>
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
<b>REQUIRED</b>	PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS:



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**SITE NUMBER: CT3470A**  
**SITE NAME: MIDDLETOWN\_MILE LANE**

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STRUCTURAL NOTES  
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CT3470A	SN-1	3



**LEGEND**

- PROPERTY LINE — SUBJECT PARCEL
- - - ABUTTERS PROPERTY LINE
- - - EASEMENT LINE
- IRON ROD/PIPE FOUND
- BOUND FOUND
- △ CALCULATED POINT
- N/F NOW OR FORMERLY
- 10-6/067 ASSESSOR'S ID
- ⊙ TOWER CONTROL POINT

**SITE SPECIFIC NOTES:**

1. FIELD SURVEY DATE: 10/15/2021
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
3. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
4. OWNER: CITY OF MIDDLETOWN  
245 DEKOVEN DRIVE  
MIDDLETOWN, CT 06457
5. SITE NAME: MIDDLETOWN\_MILE LANE
6. SITE ADDRESS: 499 MILE LANE  
MIDDLETOWN, CT 06457  
MIDDLESEX COUNTY
7. APPLICANT: AT&T
8. TAX ID: 10-0030
9. DEED REFERENCE: DEED BOOK 1771 PAGE 194
10. PLAN REFERENCE: PLAN 20 OF 20019  
PLAN 80 OF 2014  
PLAN #2243
11. ZONING DISTRICT: R-15
12. THE HORIZONTAL DATUM AND VERTICAL DATUM WERE DERIVED FROM A DUAL FREQUENCY GPS SURVEY.
13. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1-800-322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
14. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE PROPOSED IMPROVEMENTS ON THIS PROPERTY ARE LOCATED IN AN AREA DESIGNATED AS ZONE X (UNSHADED), AREA OF MINIMAL FLOOD HAZARD. MAP NO. 09007C 0108 G EFFECTIVE DATE: 8/28/2008
15. FIELD SURVEY BY EDM TOTAL STATION & RTK GPS.
16. WETLAND DELINEATION WAS PERFORMED AND LOCATED BY ALL-POINTS TECHNOLOGY CORP.

THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1997.

TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY  
 BOUNDARY SURVEY CATEGORY: DEPENDENT RESURVEY  
 CLASS OF ACCURACY: HORIZONTAL CLASS D  
 VERTICAL CLASS V-2  
 TOPOGRAPHIC CLASS T-2  
 PURPOSE OF SURVEY: PROPOSED CELLULAR UTILITIES

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE LIVE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED PROFESSIONAL. UNAUTHORIZED ALTERATIONS RENDER ANY DECLARATION NULL AND VOID.

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*Charles G. Gidman*  
 CHARLES G. GIDMAN, P.L.S. #70103



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701



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

**NORTHEAST SURVEY CONSULTANTS**



3 Ferry Street  
Studio 1 East  
Easthampton, MA 01027  
(413) 203-5144  
northeastsurvey.com



CHECKED BY: BCF

APPROVED BY: CCG

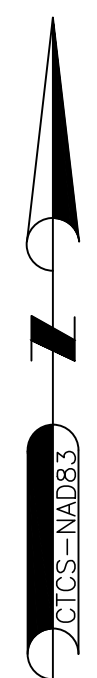
**SUBMITTALS**

REV.	DATE	DESCRIPTION	BY
0	11/23/2021	ISSUED FOR REVIEW	JDG

SITE NUMBER:  
CT3470A  
 SITE NAME:  
MIDDLETOWN\_MILE LANE  
 SITE ADDRESS:  
499 MILE LANE  
MIDDLETOWN, CT 06457  
MIDDLESEX COUNTY

SHEET TITLE  
 ABUTTERS PLAN

SHEET NUMBER  
**C-1**



CONTROL POINT B  
-IRON ROD SET-  
N: 772282.74  
E: 1017352.25

LEGEND	
	PROPERTY LINE - SUBJECT PARCEL
	ABUTTERS PROPERTY LINE
	EASEMENT LINE
	CONTOUR LINE
	TREELINE
	CHAIN LINK FENCE
	WETLAND DELINEATION
N/F	NOW OR FORMERLY
10-0030	ASSESSOR'S ID
	TOWER CONTROL POINT
	UTILITY POLE
	ELECTRIC MANHOLE
	HYDRANT
	WATER GATE VALVE
	WETLAND FLAG

550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

**HUDSON**  
Design Group LLC

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

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CHECKED BY: BCF

APPROVED BY: CCG

**SUBMITTALS**

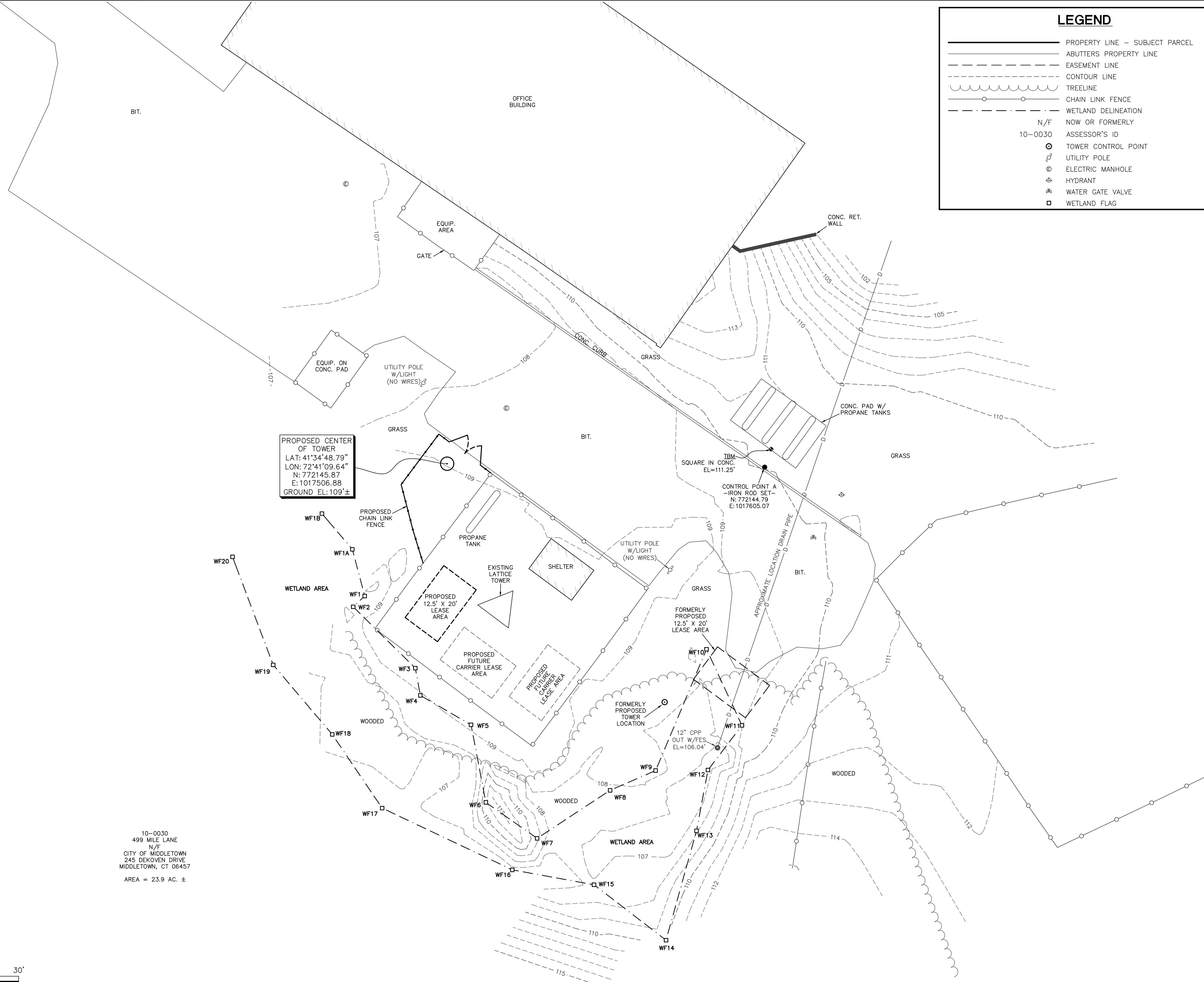
REV.	DATE	DESCRIPTION	BY
0	11/23/2021	ISSUED FOR REVIEW	JDG

SITE NUMBER:  
CT3470A  
SITE NAME:  
MIDDLETOWN\_MILE LANE  
SITE ADDRESS:  
499 MILE LANE  
MIDDLETOWN, CT 06457  
MIDDLESEX COUNTY

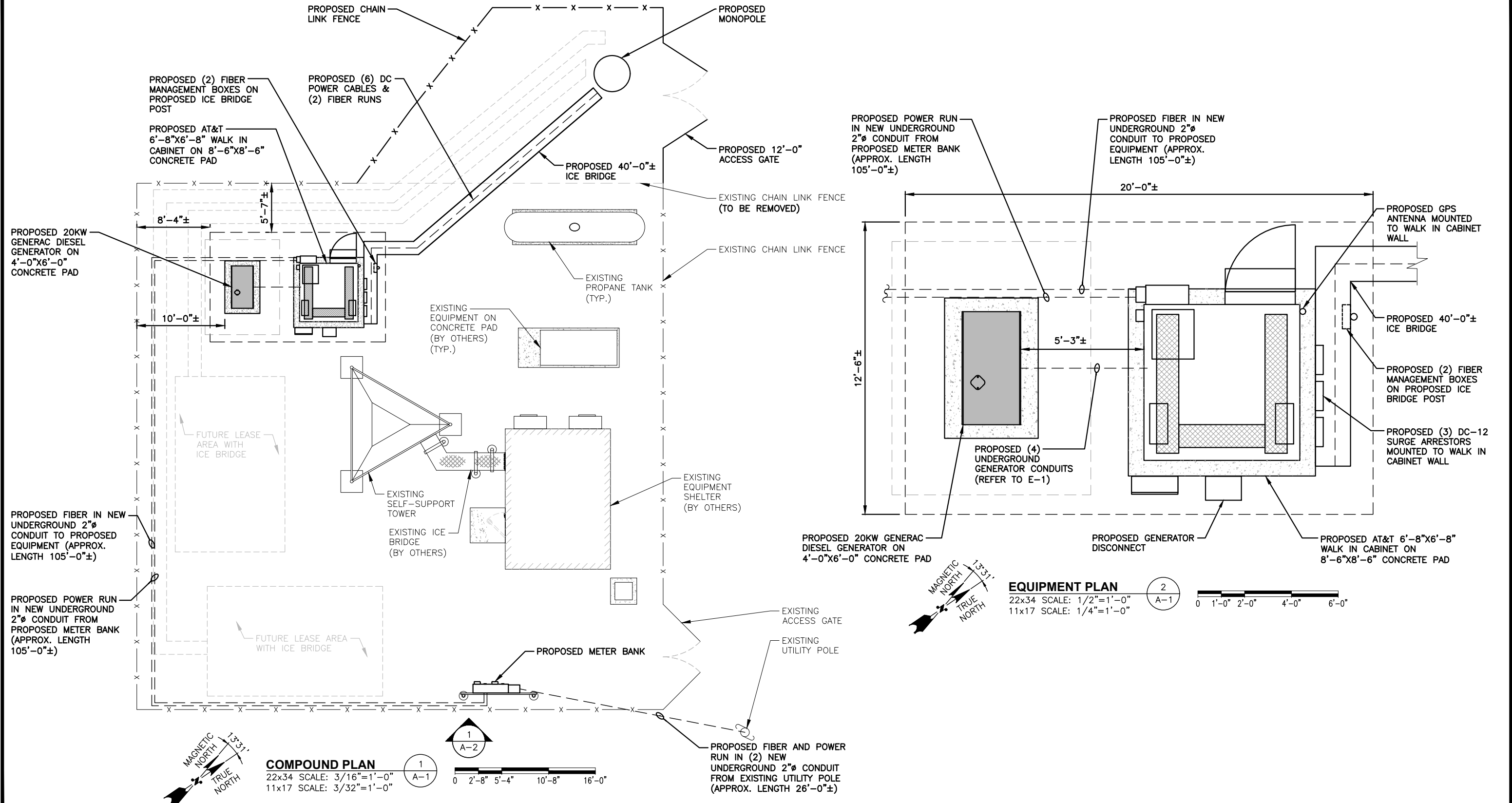
SHEET TITLE  
EXISTING CONDITIONS PLAN

SHEET NUMBER  
**C-2**

10-0030  
499 MILE LANE  
N/F  
CITY OF MIDDLETOWN  
245 DEKOVEN DRIVE  
MIDDLETOWN, CT 06457  
AREA = 23.9 AC. ±



NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



3	11/22/21	ISSUED FOR REVIEW	CC	JC	DPH
2	11/16/21	ISSUED FOR REVIEW	AR	JC	DPH
1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

<b>AT&amp;T</b>		
<b>COMPOUND &amp; EQUIPMENT PLAN (NSB)</b>		
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	A-1	3

TOP OF EXISTING TOWER  
ELEV. = 180'-0"± A.G.L.

EXISTING TOWER

TOP OF PROPOSED MONOPOLE & C OF PROPOSED AT&T ANTENNAS  
ELEV. = 150'-0"± A.G.L.

NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

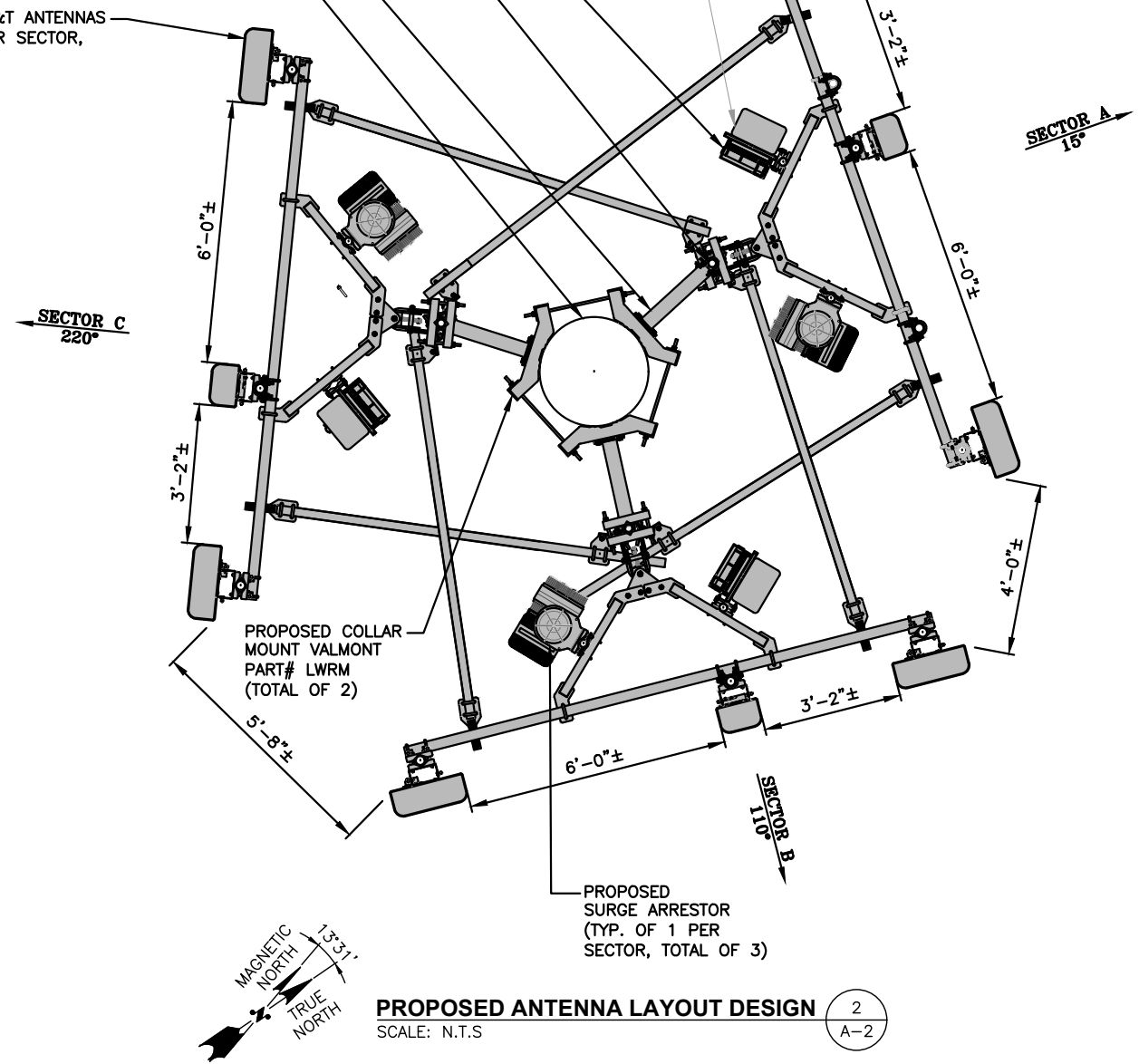
PROPOSED AT&T 6'-8"X6'-8" WALK IN CABINET ON 8'-6"X8'-6" CONCRETE PAD  
PROPOSED 20KW GENERAC DIESEL GENERATOR ON 4'-0"X6'-0" CONCRETE PAD

GROUND LEVEL  
ELEV. = 0'-0"± A.G.L.

PROPOSED SURGE ARRESTOR (TOTAL OF 3)  
PROPOSED AT&T ANTENNAS (TYP. OF 3 PER SECTOR, TOTAL OF 9)  
PROPOSED AT&T RRH'S (TYP. OF 4 PER SECTOR, TOTAL OF 12)  
FUTURE AT&T RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3)

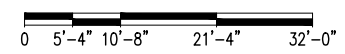
PROPOSED MONOPOLE  
PROPOSED 40'-0"± ICE BRIDGE  
PROPOSED METER BANK  
EXISTING CHAIN LINK FENCE

PROPOSED AT&T RRH'S (TYP. OF 4 PER SECTOR, TOTAL OF 12)  
PROPOSED 3" STD. (3.5" O.D.) 6'-0" LONG PIPE MAST (TYP. OF 1 PER SECTOR, TOTAL OF 3)  
PROPOSED 2' STAND-OFF VALMONT PART# MM02 (TOTAL OF 2 PER SECTOR, TOTAL OF 6)  
PROPOSED MONOPOLE  
PROPOSED AT&T ANTENNAS (TYP. OF 3 PER SECTOR, TOTAL OF 9)  
PROPOSED SECTOR FRAME VALMONT PART# VFA12-WLL-30120 (TYP. OF 1 PER SECTOR, TOTAL OF 3)  
FUTURE AT&T RRH'S (BELOW) (TYP. OF 1 PER SECTOR, TOTAL OF 3)



PROPOSED ANTENNA LAYOUT DESIGN 2  
SCALE: N.T.S. A-2

ELEVATION 1  
22x34 SCALE: 3/32"=1'-0" A-2  
11x17 SCALE: 3/64"=1'-0"



3	11/22/21	ISSUED FOR REVIEW	CC	JC	DPH
2	11/16/21	ISSUED FOR REVIEW	AR	JC	DPH
1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

AT&T		
ELEVATION AND ANTENNA PLAN (NSB)		
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	A-2	3

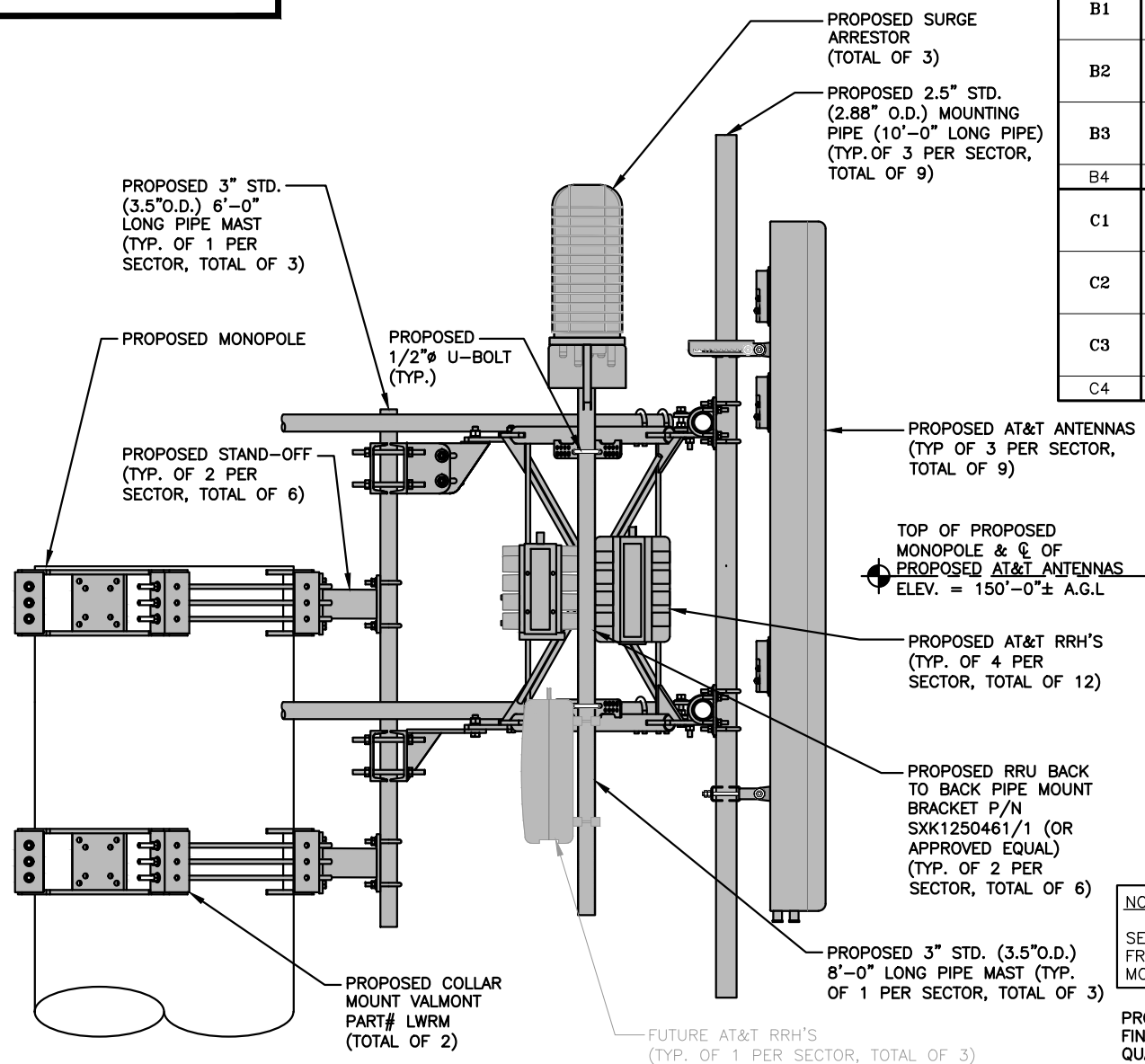


NOTE:  
HDG RECOMMENDS THE PROPOSED ANTENNA MOUNT BE MAPPED IN ITS ENTIRETY & A STRUCTURAL ANALYSIS BE PERFORMED PRIOR TO THE ANTENNA INSTALLATION.

NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

ANTENNA SCHEDULE											
SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA Q. HEIGHT	AZIMUTH	TMA/DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	PROPOSED	LTE B14/AWS	TPA65R-BU8DA-K	96X21X7.8	150'-0"	15°	-	(P) (1) 4478 B14	18.1X13.4X8.3	-	(P) (1) RAYCAP DC6-48-60-18-8C-EV
A2	PROPOSED	LTE DE/WCS	HPA65R-BU8A	96X11.7X7.6	150'-0"	15°	-	(P) (1) 4415 B30 (F) E-2	16.5X13.4X5.9 20.4X18.5X7.5	-	
A3	PROPOSED	LTE 700 BC/580/PCS	DMP65R-BU8DA-K	96X20.7X7.7	150'-0"	15°	-	(P) (1) 4449 B5/B12 (P) (1) 8843 B2/B66A	14.9X13.2X10.4 14.9X13.2X10.9	-	
A4	-	-	-	-	-	-	-	-	-	-	-
B1	PROPOSED	LTE B14/AWS	TPA65R-BU8DA-K	96X21X7.8	150'-0"	110°	-	(P) (1) 4478 B14	18.1X13.4X8.3	-	(P) (1) RAYCAP DC6-48-60-18-8C-EV
B2	PROPOSED	LTE DE/WCS	HPA65R-BU8A	96X11.7X7.6	150'-0"	110°	-	(P) (1) 4415 B30 (F) E-2	16.5X13.4X5.9 20.4X18.5X7.5	-	
B3	PROPOSED	LTE 700 BC/580/PCS	DMP65R-BU8DA-K	96X20.7X7.7	150'-0"	110°	-	(P) (1) 4449 B5/B12 (P) (1) 8843 B2/B66A	14.9X13.2X10.4 14.9X13.2X10.9	-	
B4	-	-	-	-	-	-	-	-	-	-	-
C1	PROPOSED	LTE B14/AWS	TPA65R-BU8DA-K	96X21X7.8	150'-0"	220°	-	(P) (1) 4478 B14	18.1X13.4X8.3	-	(P) (1) RAYCAP DC6-48-60-0-8C-EV
C2	PROPOSED	LTE DE/WCS	HPA65R-BU8A	96X11.7X7.6	150'-0"	220°	-	(P) (1) 4415 B30 (F) E-2	16.5X13.4X5.9 20.4X18.5X7.5	-	
C3	PROPOSED	LTE 700 BC/580/PCS	DMP65R-BU8DA-K	96X20.7X7.7	150'-0"	220°	-	(P) (1) 4449 B5/B12 (P) (1) 8843 B2/B66A	14.9X13.2X10.4 14.9X13.2X10.9	-	
C4	-	-	-	-	-	-	-	-	-	-	-



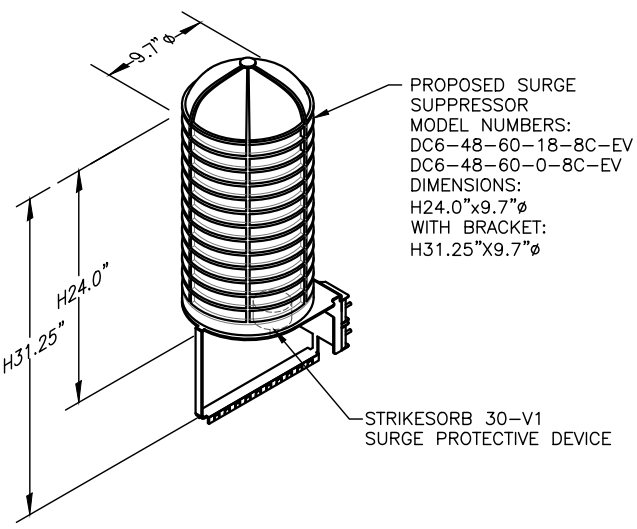
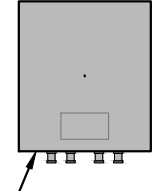
**PROPOSED SECTOR FRAME, ANTENNA, SURGE SUPPRESSOR & RRH'S MOUNTING DETAIL**  
22x34 SCALE: 1"=1'-0"  
11x17 SCALE: 1/2"=1'-0"

NOTE:  
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER

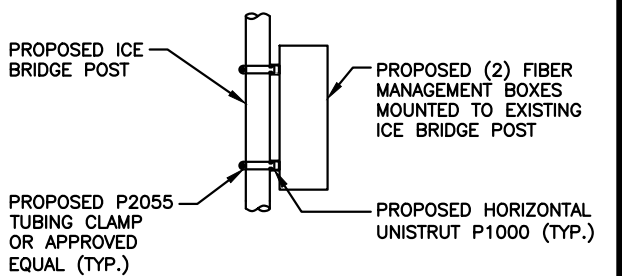
NOTE:  
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER

PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

**PROPOSED RRUS DETAIL**  
SCALE: N.T.S.

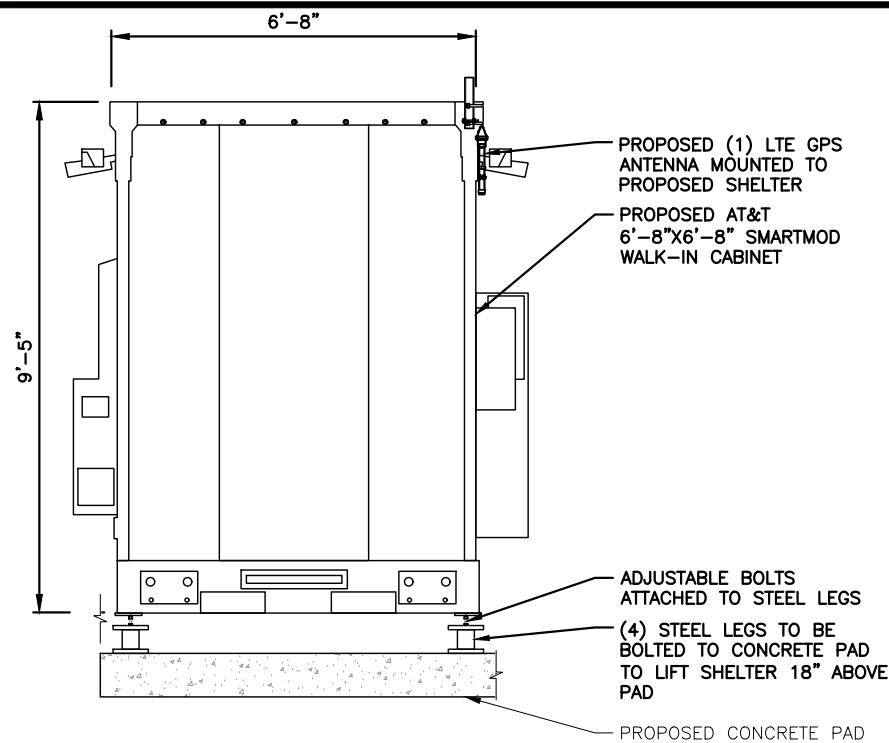
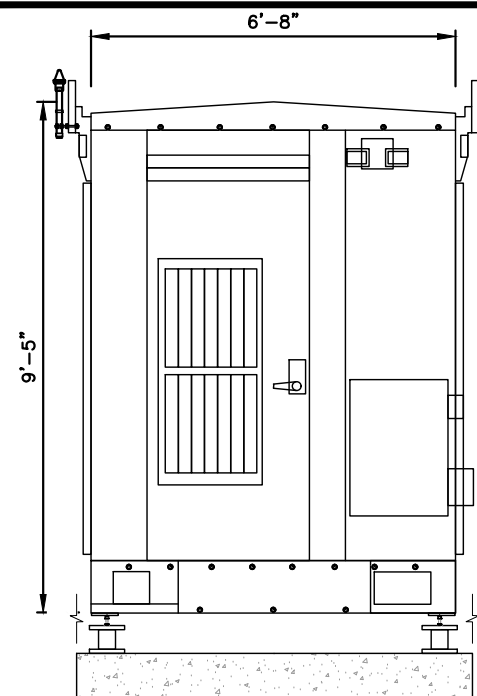


**DC SURGE SUPPRESSOR DETAIL**  
SCALE: N.T.S.



**PROPOSED FIBER MANAGEMENT BOX MOUNTING DETAIL**  
SCALE: N.T.S.

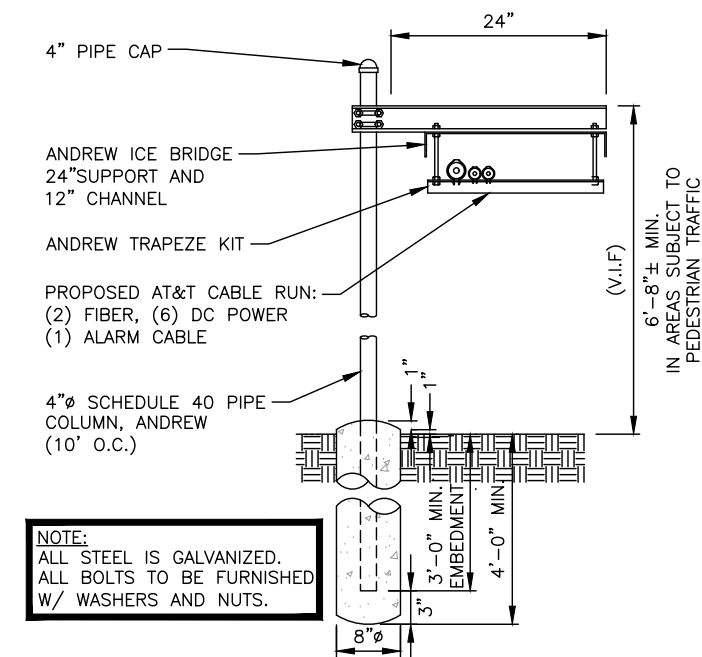
**FINAL ANTENNA SCHEDULE**  
SCALE: N.T.S.



NOTE:  
SHELTER SHALL BE MOUNTED PER  
MANUFACTURER'S SPECIFICATIONS.

**TYPICAL SHELTER DETAIL**  
SCALE: N.T.S

1  
A-4



NOTE:  
ALL STEEL IS GALVANIZED.  
ALL BOLTS TO BE FURNISHED  
W/ WASHERS AND NUTS.

**ICE BRIDGE DETAIL**  
SCALE: N.T.S

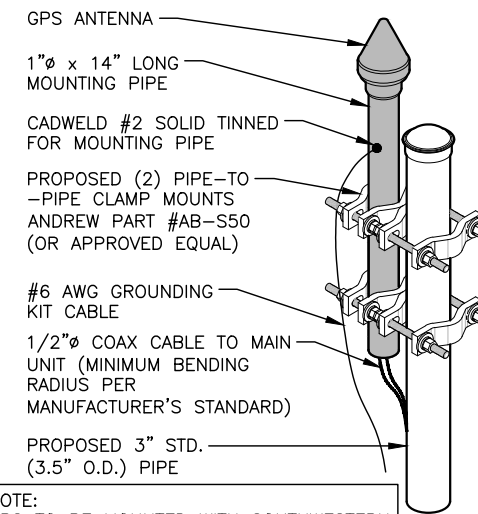
3  
A-4

20 KW GENERATOR DIMENSIONS	
MODEL #	G007098-0
MANUF.	GENERAC
HEIGHT	90"
WIDTH	36"
LENGTH	48"



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

4  
A-4



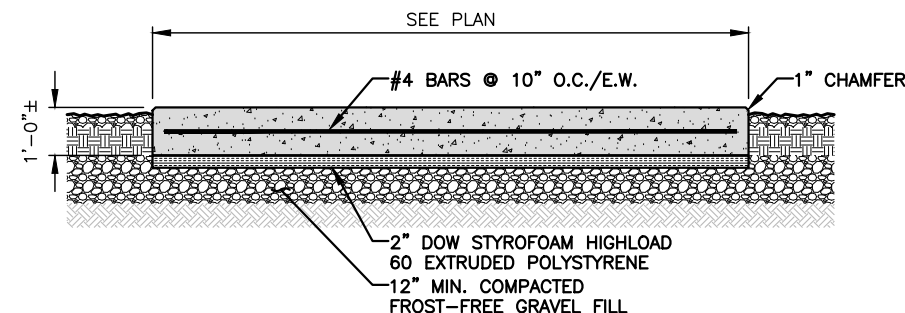
NOTE:  
GPS TO BE MOUNTED WITH SOUTHWESTERN  
EXPOSURE. (MIN. OF 10' AWAY FROM  
EXISTING GPS ANTENNA)

**GPS MOUNTING DETAIL**  
N.T.S

2  
A-4

**FOUNDATION NOTES & CONCRETE SPECIFICATIONS:**

- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%)
- REINFORCING BAR TO BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
- COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
- ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.



**CONCRETE PAD DETAIL**  
22x34 SCALE: N.T.S

5  
A-4



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



1997 ANNAPOLIS EXCHANGE PKWY  
SUITE 200  
ANNAPOLIS, MD 21401

SITE NUMBER: CT3470A  
SITE NAME: MIDDLETOWN\_MILE LANE

499 MILE LANE  
MIDDLETOWN, CT 06457  
MIDDLESEX COUNTY



550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

3	11/22/21	ISSUED FOR REVIEW	CC	JC	DPH
2	11/16/21	ISSUED FOR REVIEW	AR	JC	DPH
1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

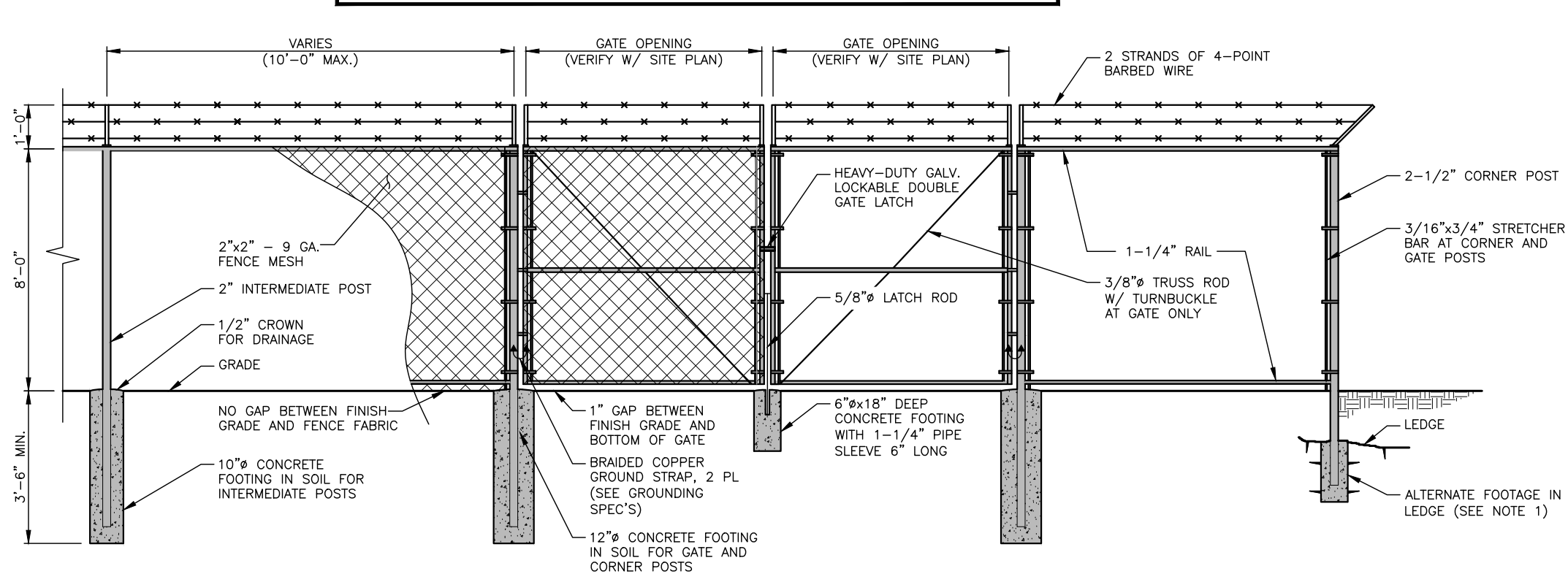
AT&T

EQUIPMENT DETAILS  
(NSB)

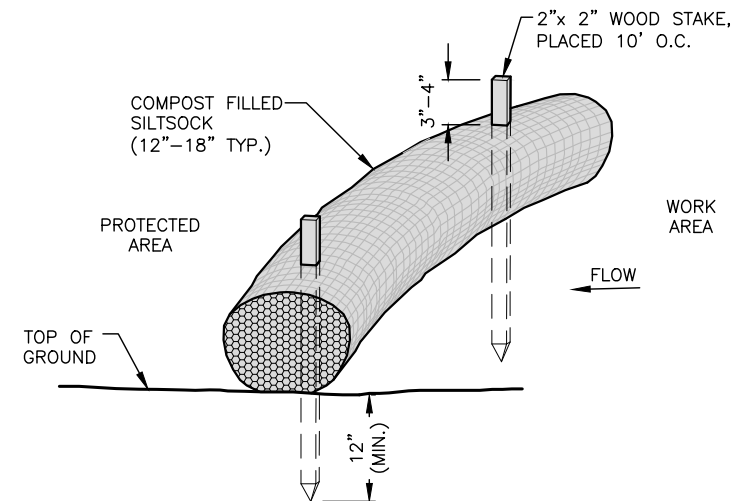
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	A-4	3

**FENCE NOTES**

1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 1-1/2" PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL.



**CHAINLINK FENCE DETAIL** 1  
SCALE: N.T.S. A-5



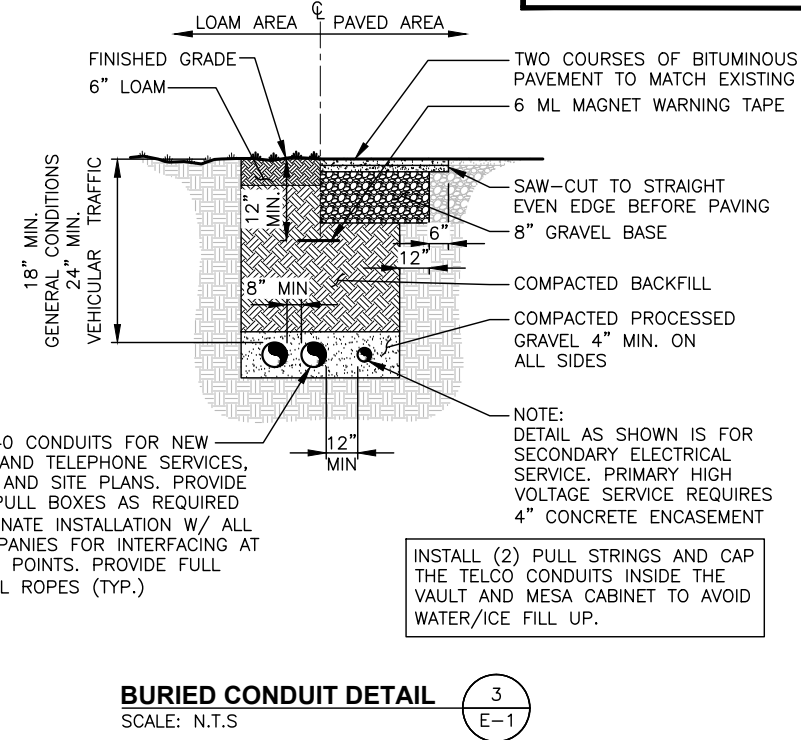
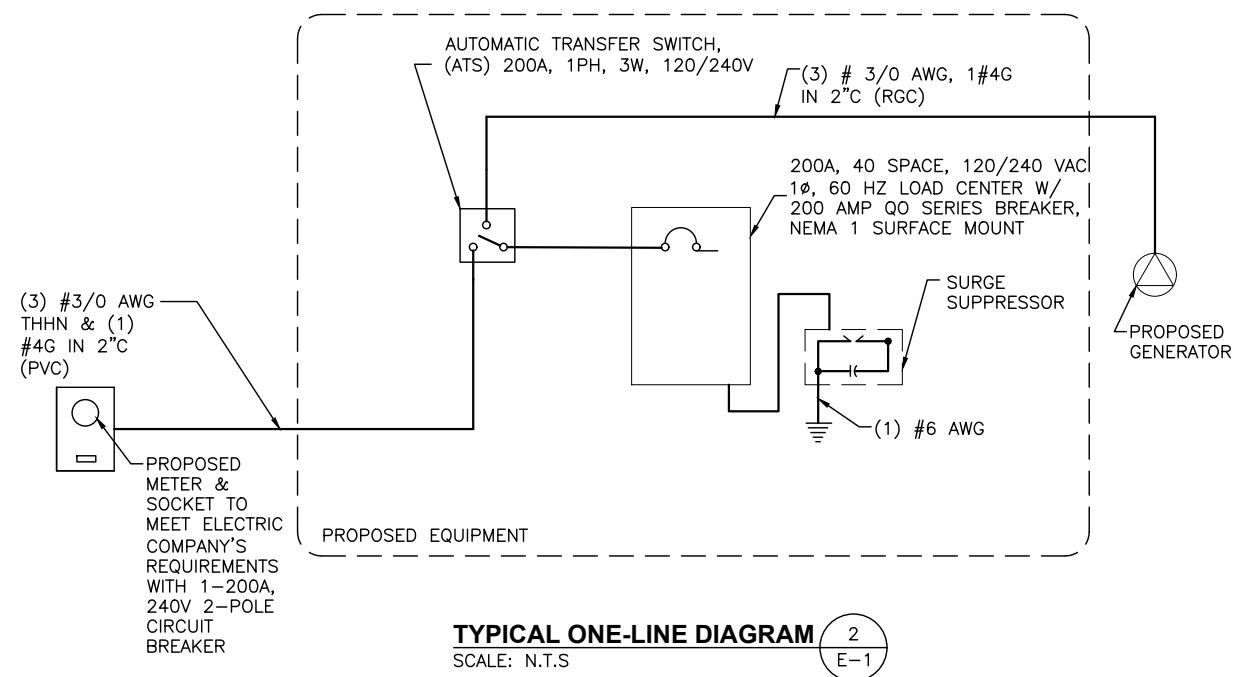
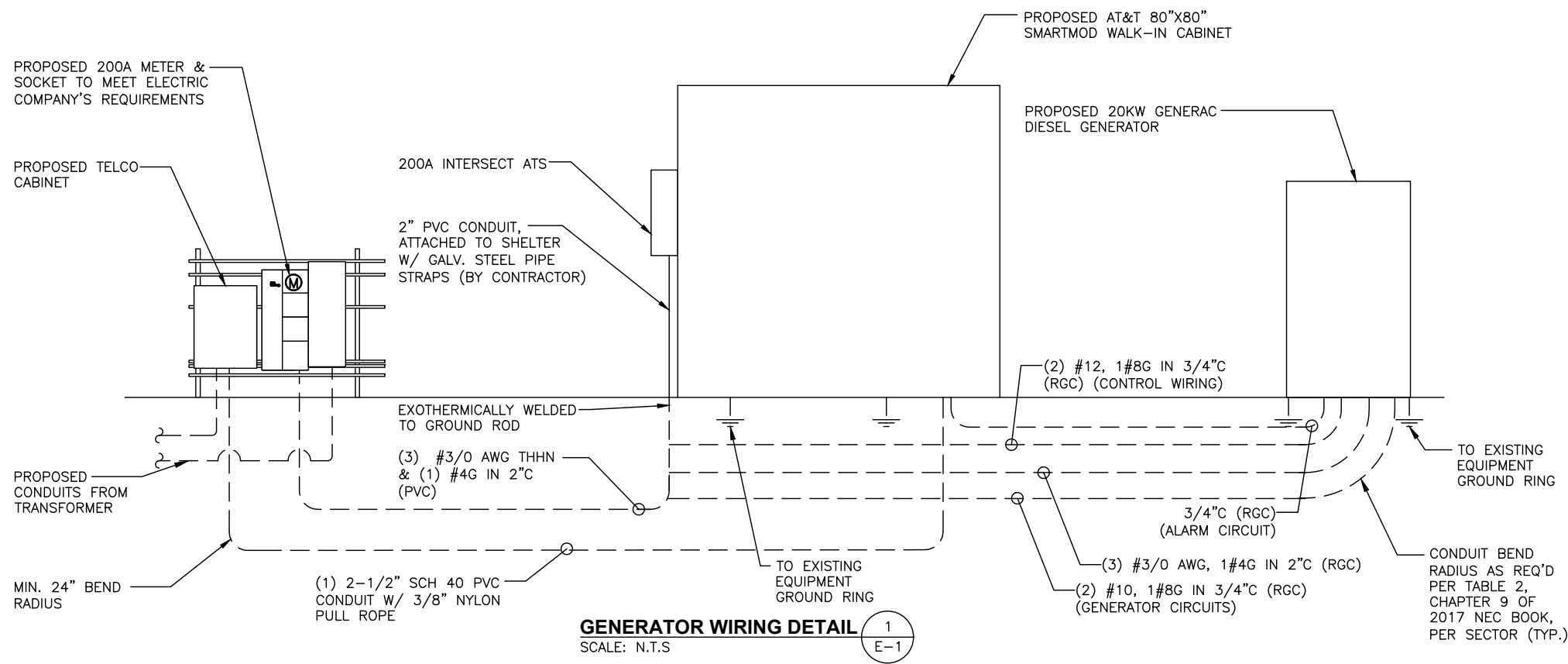
- NOTES:**
1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
  2. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
  3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
  4. SEE SPECIFICATIONS FOR SOCK SIZE, AND COMPOST FILL, REQUIREMENTS.

**SILT SOCK DETAIL** 2  
SCALE: N.T.S. A-5

3	11/22/21	ISSUED FOR REVIEW	CC	JC	DPH
2	11/16/21	ISSUED FOR REVIEW	AR	JC	DPH
1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

<b>AT&amp;T</b>		
<b>EQUIPMENT DETAILS (NSB)</b>		
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	A-5	3

NOTES:  
 1. GROUND [ATS] TO EXISTING GROUND BAR  
 2. GROUND GENERATOR TO EXISTING GROUND RING WITH (2) #2 AWG GROUND WIRES.



### ELECTRICAL LEGEND & ABBREVIATIONS

	NEW PANEL BOARD, SURFACE MOUNTED
	EXISTING PANEL BOARD, SURFACE MOUNTED
	DRY TYPE TRANSFORMER
	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
	EXPOSED WIRING
	HOME RUNS, MINIMUM 2#10 + 1#8G IN 3/4" CONDUIT U.O.N.
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
A	AMPERE
V	VOLT
KWH	KILOWATT - HOUR
C	CONDUIT
PVC	POLYVINYL CHLORIDE
HZ	HERTZ
PH, #	PHASE
W	WATTS
NEC	NATIONAL ELECTRIC CODE
PPC	POWER PROTECTION CABINET
UL	UNDERWRITER LABORATORIES
PTS	POWER TRANSFER SWITCH
QO	QUICK OPEN
RGC	GALVANIZED RIGID CONDUIT
G	GROUND
	GROUND
	MASTER GROUND BAR
	EQUIPMENT GROUND BAR
	GROUND COPPER WIRE, SIZE AS NOTED
	EXPOSED WIRING
	COAXIAL CABLE
	5/8"x8" COPPER CLAD STAINLESS STEEL GROUND ROD
	POWER FACTOR

- ### ELECTRICAL AND GROUNDING NOTES
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
  - ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
  - THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
  - GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
  - ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
  - BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
  - ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
  - RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
  - RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
  - WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
  - ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
  - PPC SUPPLIED BY PROJECT OWNER.
  - GROUNDING SHALL COMPLY WITH NEC ART. 250.
  - GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
  - USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
  - ALL GROUND CONNECTIONS TO BE BURNDY HYGRUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
  - ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
  - CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
  - APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
  - BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
  - BOND ANTENNA EGB'S AND MGB TO GROUND RING.
  - CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
  - CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
  - ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL, MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.

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

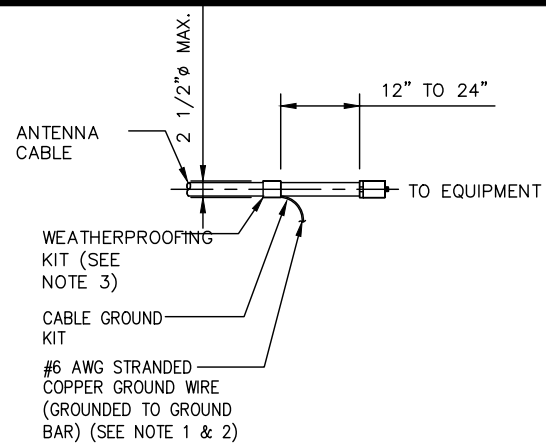
**smartlink**  
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 SUITE 200  
 ANNAPOLIS, MD 21401

**SITE NUMBER: CT3470A**  
**SITE NAME: MIDDLETOWN\_MILE LANE**  
 499 MILE LANE  
 MIDDLETOWN, CT 06457  
 MIDDLESEX COUNTY

**at&t**  
 550 COCHITUATE ROAD  
 FRAMINGHAM, MA 01701

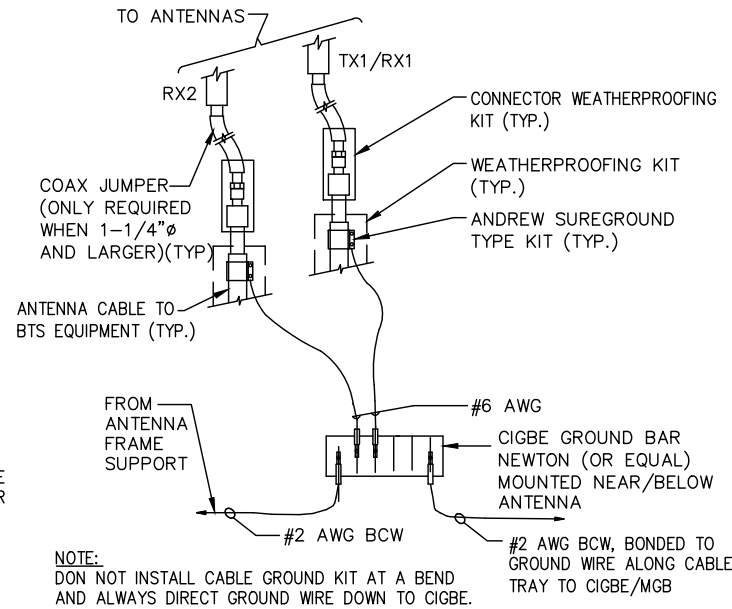
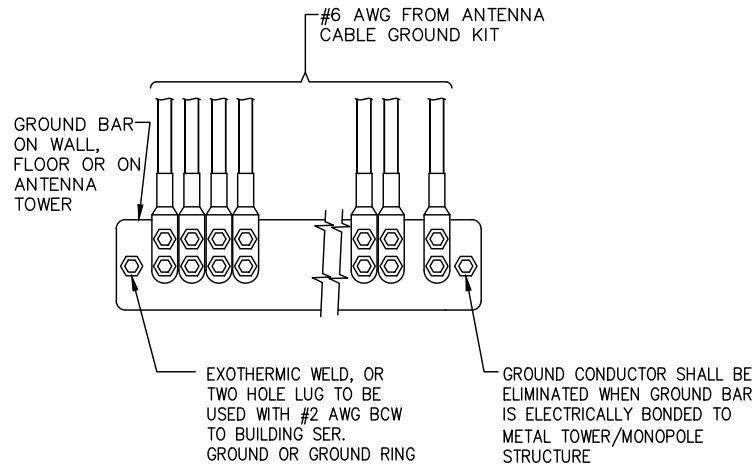
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1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

<b>AT&amp;T</b>		
<b>ELECTRICAL NOTES &amp; ONE-LINE DIAGRAM (NSB)</b>		
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	E-1	3



**NOTES:**

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.



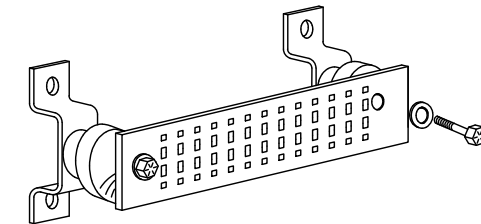
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**SECTION "P" - SURGE PRODUCERS**

- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

**SECTION "A" - SURGE ABSORBERS**

- INTERIOR GROUND RING (#2 AWG)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
- BUILDING STEEL (IF AVAILABLE) (#2 AWG)



**GROUND BAR - DETAIL**  
SCALE: N.T.S.

**CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE**

SCALE: N.T.S.

1  
G-1

**INSTALLATION OF GROUND WIRE TO GROUND BAR**

SCALE: N.T.S.

2  
G-1

**INSTALLATION OF GROUND WIRE TO GROUNDING BAR TOWER**

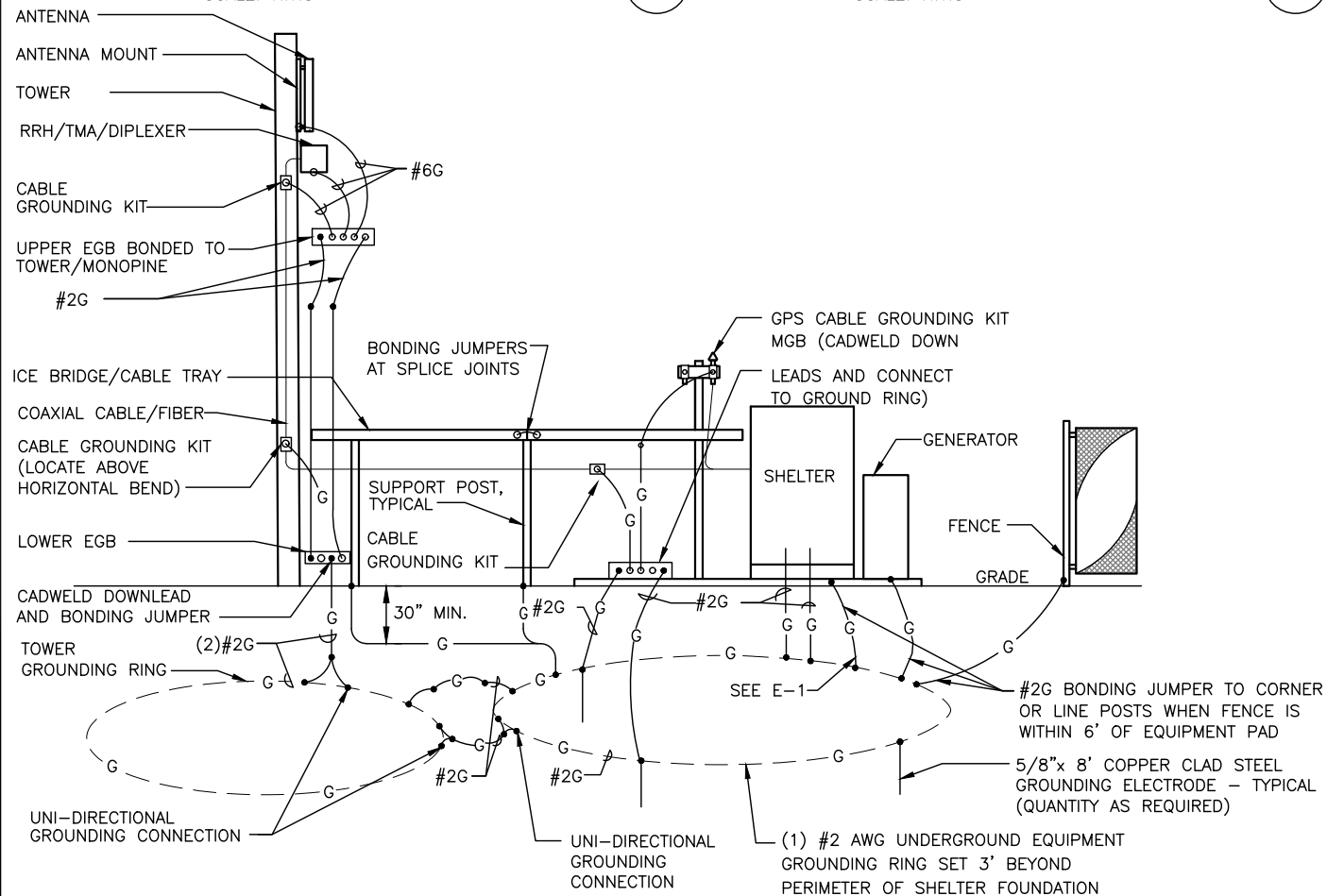
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3  
G-1

**GROUND BAR - DETAIL**

SCALE: N.T.S.

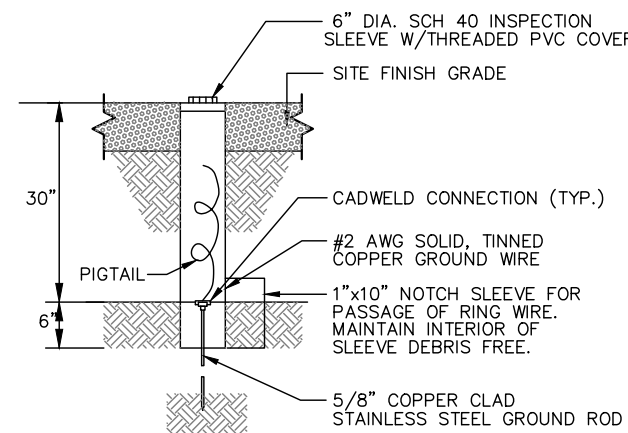
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G-1



**GROUNDING ONE-LINE DIAGRAM**

SCALE: N.T.S.

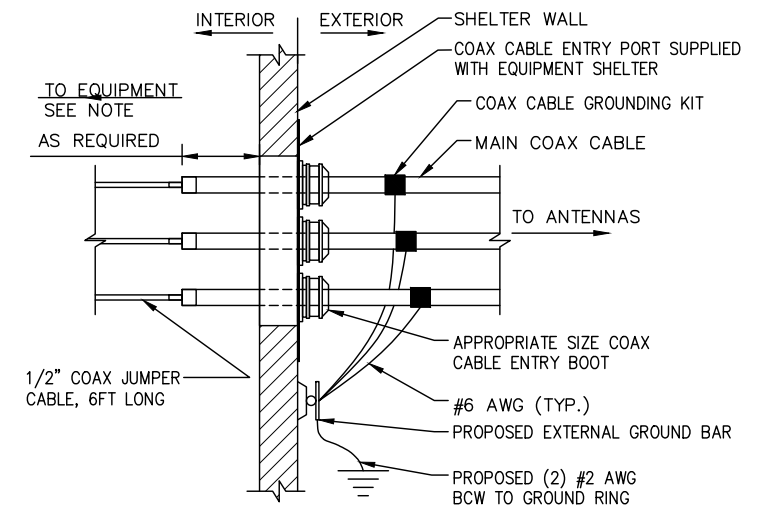
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G-1



**GROUND ROD TEST WELL DETAIL**

SCALE: N.T.S.

6  
G-1



**NOTE:**  
EXTEND MAIN COAXIAL CABLE AS CLOSE AS POSSIBLE TO BTS EQUIPMENT. MAX LENGTH OF BTS JUMPER IS 6 FT.

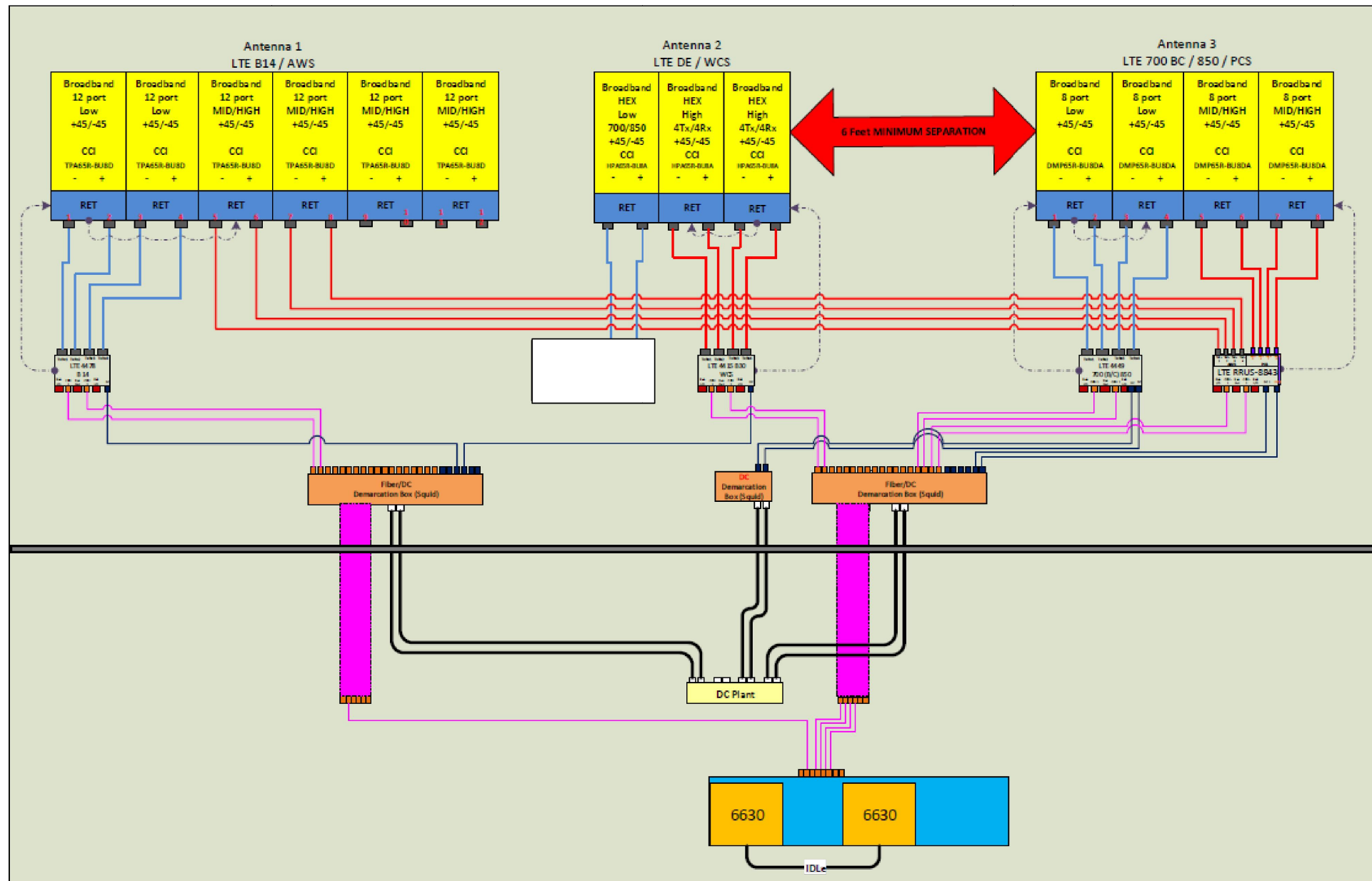
**INSTALLATION OF GROUND WIRE TO GROUND BAR**

SCALE: N.T.S.

7  
G-1

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2	11/16/21	ISSUED FOR REVIEW	AR	JC	DPH
1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

<b>AT&amp;T</b>		
<b>GROUNDING DETAILS (NSB)</b>		
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	G-1	3



**RF PLUMBING DIAGRAM** 1  
SCALE: N.T.S. RF-1

**NOTE:**  
1. CONTRACTOR TO CONFIRM ALL PARTS.  
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

3	11/22/21	ISSUED FOR REVIEW	CC	JC	DPH
2	11/16/21	ISSUED FOR REVIEW	AR	JC	DPH
1	09/22/21	ISSUED FOR REVIEW	AR	JC	DPH
0	04/07/21	ISSUED FOR REVIEW	VP	JC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: JC	DRAWN BY: CC/VP		

<b>AT&amp;T</b>		
<b>RF PLUMBING DIAGRAM (NSB)</b>		
SITE NUMBER	DRAWING NUMBER	REV
CT3470A	RF-1	3

# ATTACHMENT 8

November 16, 2021

Scott Pike  
SmartLink  
85 Rangeway Road  
Bldg. 3, Suite 102  
Billerica, MA 01862

SUBJECT: AT&T CT3470A Middletown Mile Lane – Generator Noise Study

Dear Scott,

At your request, I have conducted a study of potential noise impacts from the proposed backup generator at 499 Mile Lane in Middletown, CT.

This parcel and all abutters are in residential zones. The City of Middletown Code, Chapter 206 *Noise*, section 9, part D limits noise levels, measured at the property line, to 55 dBA during the day and 45 dBA at night.

This proposed generator is a Generac SDC20 (part number 7098-0) with a Level 2 sound enclosure. Generac has provided sound level data for this unit.

Based on these data, the proposed equipment locations, and site topography, a computer model of the site was constructed in SoundPLAN, and industry- standard application for modeling outdoor noise propagation. Calculations were based on ISO 9613-2 *Attenuation of Sound During Propagation Outdoors*.

Figure 1, attached, presents a plot of predicted sound levels. The generator is not expected to exceed 40 dBA at any property boundary and will be below 30 dBA at any residence.

The proposed generator will comply with the limits of the City of Middletown Code.

Sincerely,



Eric L. Reuter, FASA, INCE Bd. Cert.  
*Principal*



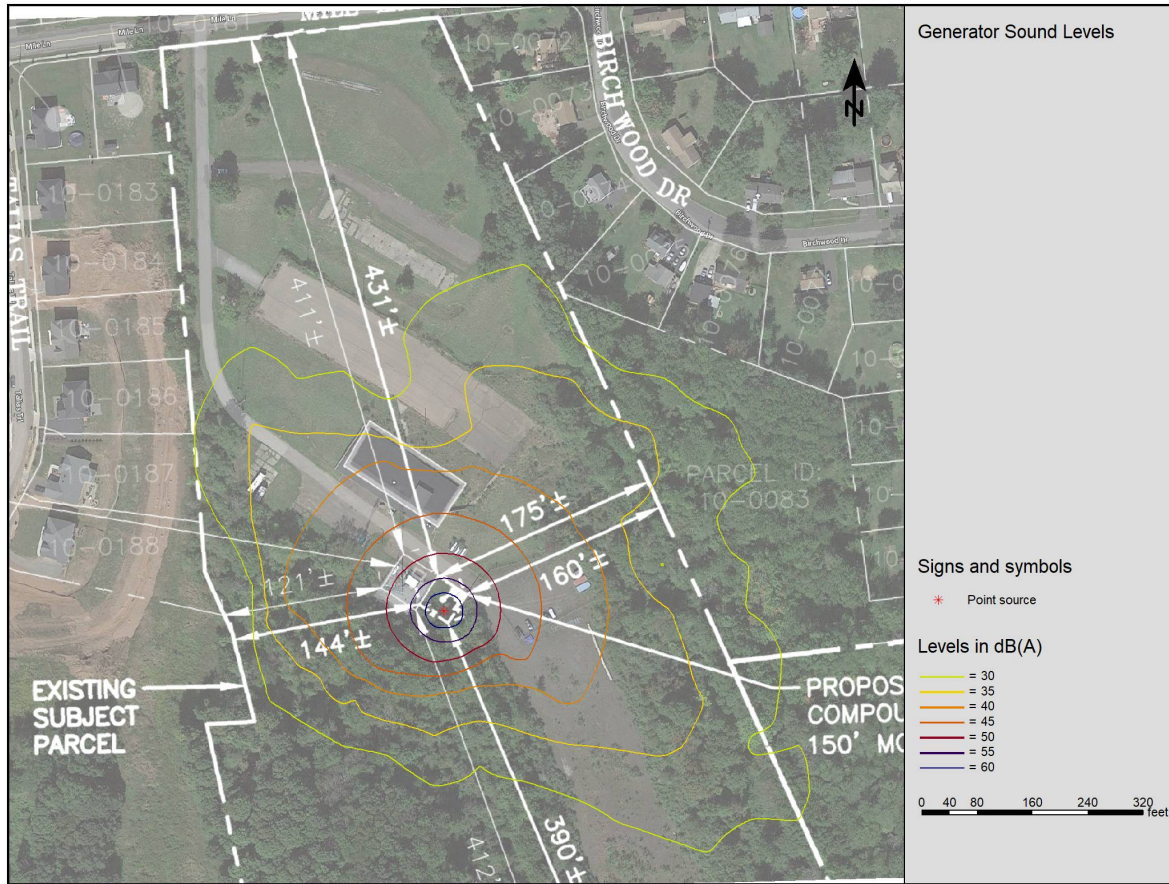


Figure 1 – Predicted Sound Levels

# ATTACHMENT 9

# REMOTE FIELD REVIEW



CT SITING COUNCIL DOCKET NO. 506  
RESPONSE TO INTERROGATORY 72  
MIDDLETOWN\_MILE LANE  
499 MILE LANE  
MIDDLETOWN, CONNECTICUT

PREPARED FOR:



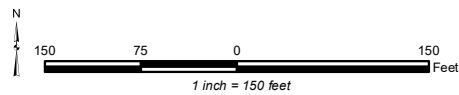
PREPARED BY:

**ALL-POINTS TECHNOLOGY CORPORATION, P.C.**  
567 Vauxhall Street Extension – Suite 311  
Waterford, CT 06385



**PHOTO LOG**

- Photo Locations
- Site
- Compound
- Carrier Equipment
- Photo Markers
- Monopine
- Compound Fence



Proposed Telecommunications Facility  
499 Mile Lane  
Middletown, CT



ACCESS ROAD

PHOTO

1

DESCRIPTION

**MILE LANE LOOKING EAST**



PHOTO

2

DESCRIPTION

**MILE LANE LOOKING SOUTH**



ACCESS ROAD



PHOTO

DESCRIPTION

3

MILE LANE LOOKING SW



NORTH



EAST



SOUTH



WEST



PHOTO

4

DESCRIPTION

VIEW FROM ACCESS ROAD - FOUR CARDINAL POINTS

PHOTOGRAPHED ON 11/02/2021





PHOTO

5A

DESCRIPTION

ACCESS ROAD LOOKING SOUTH



PHOTOGRAPHED ON 11/02/2021



PHOTOGRAPHED ON 11/02/2021

PHOTO

5B

DESCRIPTION

ACCESS ROAD LOOKING NORTH



PHOTO

6

DESCRIPTION

VIEW FROM ACCESS ROAD - FOUR CARDINAL POINTS

PHOTOGRAPHED ON 11/02/2021



PHOTO

7A

DESCRIPTION

ACCESS ROAD LOOKING SOUTHEAST

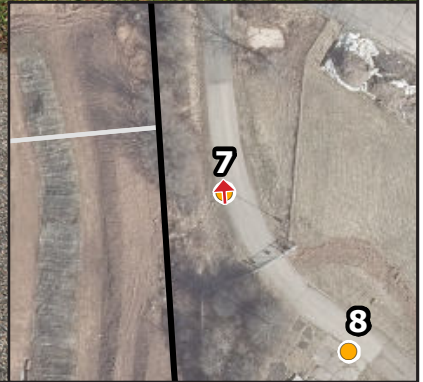


PHOTO

7B

DESCRIPTION

ACCESS ROAD LOOKING NORTH



PHOTOGRAPHED ON 11/02/2021

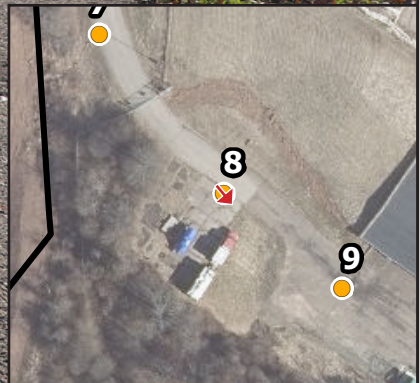


PHOTO

8A

DESCRIPTION

ACCESS ROAD LOOKING SOUTHEAST



PHOTOGRAPHED ON 11/02/2021

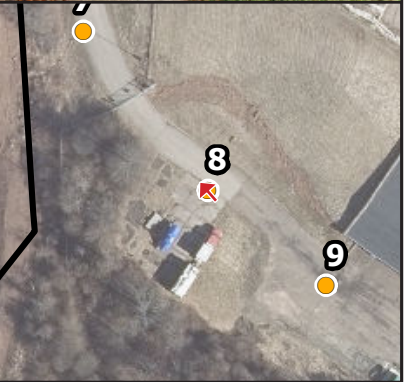


PHOTO

8B

DESCRIPTION

ACCESS ROAD LOOKING NORTHWEST



PHOTOGRAPHED ON 11/02/21



NORTH



EAST



SOUTH



WEST



PHOTO

9

DESCRIPTION

VIEW FROM ACCESS ROAD - FOUR CARDINAL POINTS

PHOTOGRAPHED ON 11/02/2021





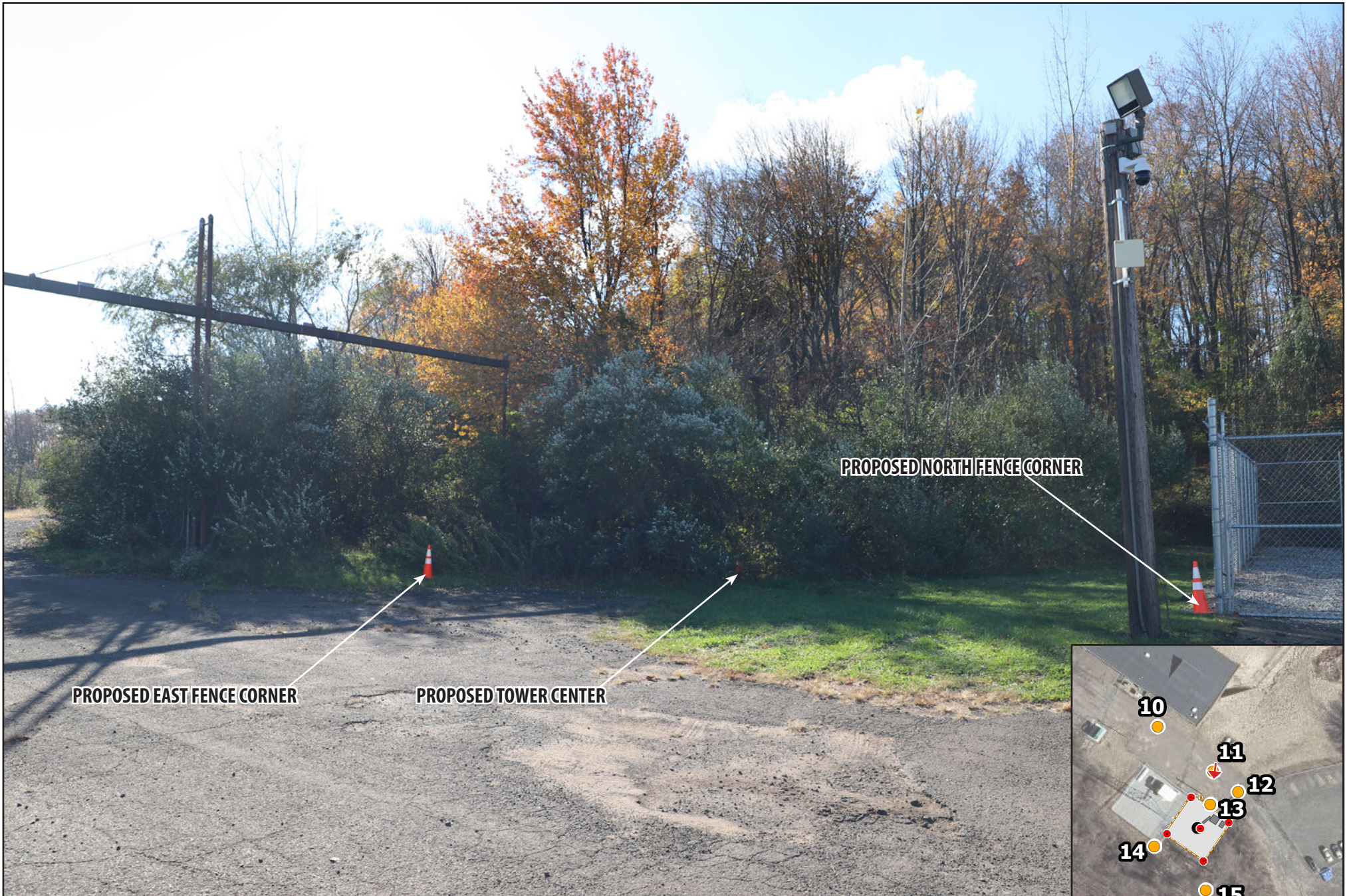
PHOTOGRAPHED ON 11/02/2021

PHOTO

10

DESCRIPTION

ACCESS ROAD LOOKING SOUTHEAST



PHOTO

11

DESCRIPTION

ACCESS ROAD LOOKING SOUTH



PHOTOGRAPHED ON 11/02/2021

PHOTO

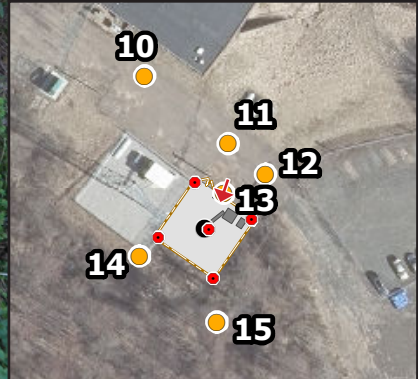
12

DESCRIPTION

ACCESS ROAD LOOKING SOUTH



**PROPOSED TOWER CENTER**



PHOTOGRAPHED ON 11/02/2021

PHOTO

DESCRIPTION

13

**LOOKING SOUTH FROM NORTHERN EDGE OF PROPOSED COMPOUND**



**PROPOSED WEST FENCE CORNER**

PHOTO  
**14A**

DESCRIPTION  
**LOOKING NORTHEAST FROM BEHIND PROSPED COMPOUND**



PHOTOGRAPHED ON 11/02/2021



PHOTOGRAPHED ON 11/02/2021

PHOTO  
14B

DESCRIPTION  
LOOKING EAST FROM BEHIND PROSPED COMPOUND



PHOTOGRAPHED ON 11/02/2021

PHOTO

DESCRIPTION

15

LOOKING NORTH FROM BEHIND PROPSED COMPOUND