

January 8, 2015

Kevin Mason
AT&T Mobility New England
550 Cochituate Road Suites 13 & 14
Framingham, MA 01701

Subject: **Structural Certification Letter for As-Built Antenna Installation**
Site Number: ME5372
Site Address: 636 Riverside Street, Portland, ME 04103, City of Portland
Site Name: Lucas Tree

Dear Mr. Mason,

Pursuant to your request, **Network Building + Consulting Engineering Services ("NB+CES")** has completed a structural evaluation of the proposed AT&T antenna mounting system for the above-mentioned site. The intent of this evaluation is to determine if the modifications proposed for the AT&T site will exceed the capacity of the proposed mounting system.

The proposed mounting system for the above-mentioned site can be categorized as one (1) full walkway tower platform mount with handrails, located at a height of 116.03-ft above ground level on the 120.0-ft steel monopole tower. AT&T is proposing the following procedure to complete the equipment upgrade:

- Proposed Configuration - AT&T will install one (1) Universal Sector Frame (Site Pro part # RMQP-4096-HK or equal) along with six (6) HPA-65R-BUU-H8 panel antennas and six (6) future HPA-65R-BUU-H8 panel antennas on proposed steel pipe mounts, and will install nine (9) RRUs, twenty-four (24) future RRUs, and four (4) Squids mounted behind the proposed AT&T panel antennas.

The proposed full walkway platform mount with handrails has the following characteristics:

- Triangular in plan with an approximately 12.5-ft face width with handrails.
- Proposed mount pipe sizes are 2-7/8" O.D. x 96" schedule 40 steel pipe.
- Horizontal platform members are comprised of steel pipes.
- Platform work area consists of steel grating.

This analysis assumes compliance with the ANSI/TIA-222-G Structural Standards for Antenna Supporting Structures and the Maine Uniform Building and Energy Code incorporating the International Building Code (IBC-2009).

By engineering analysis, the proposed antenna mounting system is capable of supporting the proposed equipment without causing an overstress condition in the mounting system.

This certification is based on the physical mount conditions as described above. This certification assumes that all structural members and connections are in good physical condition. Prior to the installation of the upgraded equipment, the contractor shall inspect the condition of all relevant members and connections. The contractor shall be responsible of all means and methods of construction.



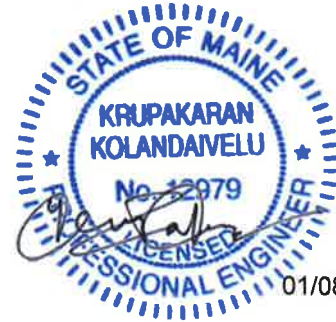
Should you have any question or require additional information, please feel free to contact us.

NB+C Engineering Services, LLC

Prepared by: Elizabeth Czyzewicz, E.I.T.

Respectfully submitted by:

Krupakaran Kolandaivelu, P.E.
Engineering Manager - Structural
ME PE License #: 12979



01/08/2015

