

CONNECTICUT SITING COUNCIL

PETITION OF NEW CINGULAR)
WIRELESS PCS, LLC ("AT&T") TO THE)
CONNECTICUT SITING COUNCIL FOR) PETITION NO. ____
A DECLARATORY RULING THAT NO)
CERTIFICATE OF ENVIRONMENTAL) JANUARY 9, 2015
COMPATIBILITY AND PUBLIC NEED IS)
REQUIRED FOR A PROPOSED)
REPLACEMENT AND EXPANSION OF)
AN EXISTING LIGHT POLE TOWER)
FACILITY AT PENDERS FIELD @)
LONGBROOK PARK LOCATED ON)
GLENDALE ROAD, STRATFORD)
CONNECTICUT)

PETITION FOR DECLARATORY RULING
REPLACEMENT AND EXPANSION OF
EXISTING LIGHT POLE TOWER AT PENDERS FIELD
LONGBROOK PARK, STRATFORD CONNECTICUT

I. Introduction

New Cingular Wireless PCS, LLC ("AT&T"), the "Petitioner", hereby petitions the Connecticut Siting Council ("Council") pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies ("R.C.S.A.") for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required to replace and expand an existing light stanchion located at a municipal athletic field in the Town of Stratford, Connecticut (the "Site").

II. Penders Field in Longbrook Park

Penders Field is a multipurpose facility in Longbrook Park that is owned by the Town of Stratford and used for numerous athletic events. Penders Field and the stadium have several light towers of varying heights surrounding the field for night games and events. Glendale Road is to the north and Hurd Avenue to the south. A photograph of the Field and an Aerial Map and USGS Map for the area are annexed hereto in Exhibit A.

III. Proposed AT&T Installation

AT&T is licensed by the Federal Communications Commission ("FCC") to provide wireless services in this area of the State of Connecticut. AT&T proposes to replace one of the existing lighting towers that is 85' in height with an approximately 95' tall replacement tower. AT&T will install twelve (12) panel antennas at a centerline height of 90' above ground level (AGL) on the tower and the lights would be reinstalled at their existing height above grade.

An associated unmanned 12' by 24' equipment shelter with and internal emergency diesel powered backup generator will be located in a 24' by 37' lease area behind the bleachers and enclosed by an 8' tall stockade fence. AT&T's facility is unmanned and generates only 1 vehicle trip per month. Utility connections would be located in a proposed utility easement and run underground from an on-site utility pole #2507 along Elliot Street, and then extended behind the bleachers to the facility. Access to the facility would be over a proposed 20' wide access easement from Hurd Avenue, along Elliot Street, then along behind the bleachers to the facility.

Included as Attachment B are detailed construction drawings prepared by ProTerra Design Group , LLC, last revised March 27, 2014, which include an abutters map, survey, plans, elevations, site details, site utility plans and other aspects of proposed facility.

IV. Municipal Lease Approval of the Project

AT&T's proposal to lease a portion of the Field and replace and expand one of the existing light towers with a 95' combination cellular/light tower was considered and approved by the Town Council at its meeting on June 9, 2014. As noted in the minutes of the Town Council's meeting, a copy of which are annexed hereto in Exhibit C, the Town approved the lease with AT&T and authorized it to move forward with the project. Based on past Siting Council precedent, the replacement facility is subject to the Council's jurisdiction as a "tower" pursuant to Section 16-50i of the Connecticut General Statutes. See Petition No. 637. AT&T respectfully submits that the proposed AT&T facility involving a replacement light tower involves no substantial adverse environmental effects as more fully set forth in this Petition filing with the Siting Council.

V. The Proposed Facility Will Not Have a Substantial Adverse Environmental Effect

A comparison of existing and proposed conditions reveals no substantial adverse environmental impacts associated with modifications to one of the lighting towers at Penders Field in Longbrook Park and construction of a cellular facility by AT&T.

A. Minimal Physical Impact

AT&T's proposed replacement tower will not result in significant disturbance to lands around the field, lands which have been previously developed as part of Penders Field and Longbrook Park. The proposed equipment shelter will be located in an area immediately behind existing bleachers. Utility connections would be located in a proposed utility easement and run underground from an on-site utility pole #2507 along Elliot Street, and then extended behind the bleachers to the facility. Access to the facility would be over a proposed 20' wide access easement from Hurd Avenue, along Elliot Street, then along behind the bleachers to the facility. One (1) tree will be removed as noted in the tree inventory included in Attachment D.

B. Compliance with MPE Limits

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

C. Visibility

As demonstrated in the visual materials included in Attachment F, the proposed replacement tower and antennas will have an incremental change in the viewshed that is very small given the height increase of only 10'. The installation requires no FAA lighting or marking as per the TOWAIR report included in Attachment G. AT&T's consultants determined that the project would have no adverse effect on historic properties and sought concurrence from the CT State Historic Preservation Officer ("SHPO") in May and June 2014 filings. No comments were received from SHPO within thirty days and by operation of federal law, the facility will have no effect on listed or eligible National Register historic properties. AT&T respectfully submits that the comparative visibility of the existing 85' tall light tower vs. the proposed 95' tall replacement tower is neither significant nor adverse for purposes of the Council's regulatory considerations in ruling on this petition for a declaratory ruling.

D. Wetlands & Watercourses

AT&T procured a wetlands and watercourses report due to the project's proximity to Long Brook (approximately 40' to the west), a copy of which is included in Exhibit H. As noted therein, Long Brook is highly channelized through the park itself. The AT&T facility is, nevertheless, out of the floodplain and no adverse impacts to the brook are involved with the

project. Soil erosion control measures and other best management practices will be established and maintained throughout the construction of the proposed facility. Further information regarding the facility's lack of any direct impact on Long Brook in Attachment H.

E. Noise

A Noise Evaluation Report, dated December 5, 2014 included as Attachment I, confirms that noise levels at the nearest residential property line will comply with the provisions for noise level standards as set forth in the State of Connecticut noise regulations.

VI. Public Need

Annexed hereto in Attachment J are AT&T radio frequency coverage plots which depict existing and proposed 1900 MHz coverage (UMTS) from the proposed facility at an antenna centerline height of 90' AGL. As apparent from a review of same, AT&T's wireless network in this part of the Town of Stratford is not adequate to reliably serve the public including the surrounding residential neighborhood, parts of I-95 and peak demands during events at Penders Field. This and other facilities are needed in the Town to provide reliable 4G LTE services. The Town's park and the existing light pole structure were identified as a potential solution consistent with state law where a new facility could be constructed in the area without impacts on a residential neighborhood. As such, while the Council does not have to find a public need for the facility as part of a ruling on this Petition, it is respectfully submitted that the enclosed information fully demonstrates the need for the installation of the proposed facility to provide reliable wireless services to the public.

VII. Notice

Pursuant to R.C.S.A. Section 16-50j-40(a), notice of AT&T's intent to file this petition was sent to each person appearing of record as an owner of property that abuts the site, as well as the appropriate municipal officials

and government agencies as listed in Section 16-50e of the C.G.S. Certification of such notice, a copy of the notice and the list of property owners and municipal officials and government agencies to whom the notice was sent are included in Attachment K.

VIII. Conclusion

As set forth above, the proposed AT&T replacement tower facility is wholly consistent with legislative findings outlined in Section 16-50g and 16-50aa of the General Statutes of Connecticut that seek to avoid the unnecessary proliferation of towers in the State. Further, there are no known adverse environmental effects associated with the project. Therefore and for all the foregoing reasons, AT&T petitions the Connecticut Siting Council for a determination that the proposed wireless telecommunications facility does not require a Certificate of Environmental Compatibility and Public Need and that the Council issue an order approving same.

Respectfully Submitted,



Christopher B. Fisher

On behalf of the Petitioner

- cc: Mayor John A. Harkins, Town of Stratford
- Gary Lorentson, Town of Stratford Planning Director
- Michelle Briggs, AT&T
- Kelly Wade Bettuchi, AT&T
- David Vivian, SAI

ATTACHMENT A

Longbrook Park, Stratford



Sign in

50 Glendale Road



Exit Street View



© 2014 Google

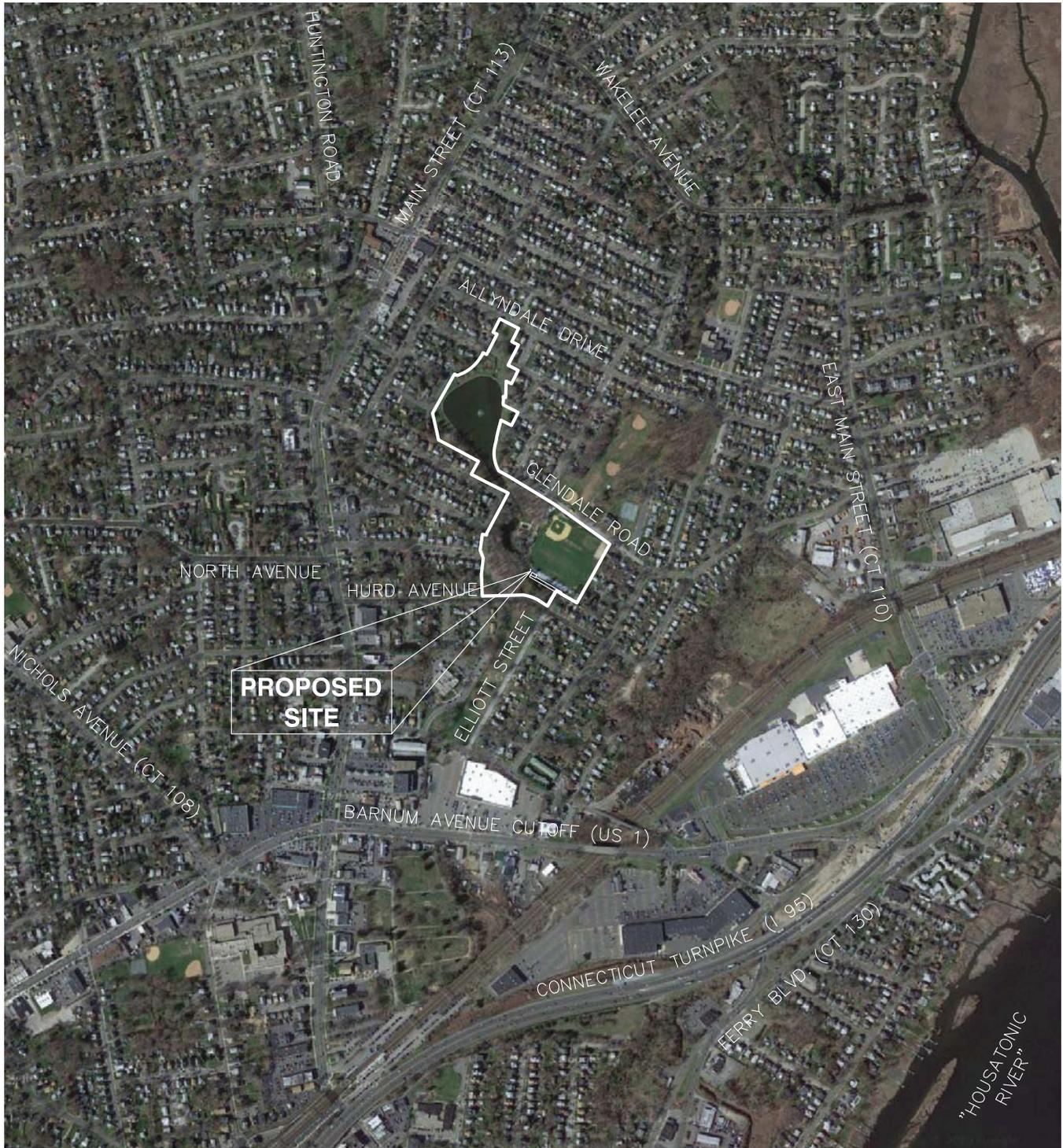
© 2014 Google

Google earth

[Report a problem](#)

[Tour Guide](#)

Imagery Date: 7/2011 41°12'14.92" N 73°07'33.15" W elev 212 ft eye alt 36 ft



AERIAL PHOTO

SCALE: 1"=1000'

ProTerra
DESIGN GROUP, LLC

1 Short Street, Suite 3 Ph:(413)320-4918
Northampton, MA 01060 Fax:(413)320-4917

LOCATION PLANS

SITE NAME: LONGBROOK PARK

SITE NUMBER: CT-1848S

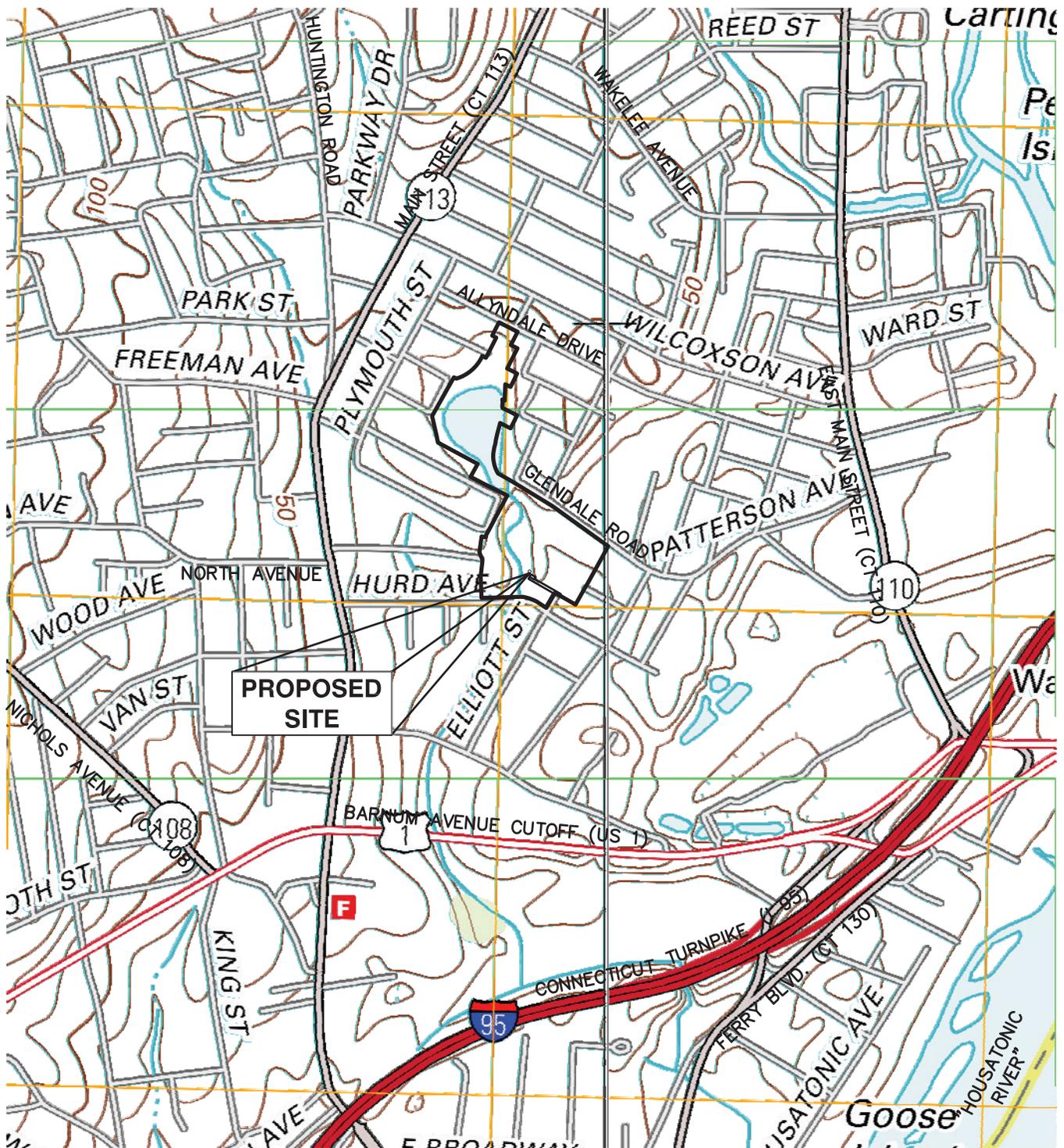
ADDRESS: GLENDALE ROAD
STRATFORD, CT 06614

DATE: 3/6/14

REVISION: 0

JOB NO.:13-053

SHEET: M-1



USGS MAP

SCALE: 1"=1000'

ProTerra

DESIGN GROUP, LLC

1 Short Street, Suite 3 Ph:(413)320-4918
Northampton, MA 01060 Fax:(413)320-4917

LOCATION PLANS

SITE NAME: LONGBROOK PARK
 SITE NUMBER: CT-1848S
 ADDRESS: GLENDALE ROAD
 STRATFORD, CT 06614

DATE:	3/6/14
REVISION:	0
JOB NO.:	13-053
SHEET:	M-2

ATTACHMENT B



SITE NAME: LONGBROOK PARK
SITE NUMBER: CT-1848S
ADDRESS: GLENDALE ROAD
STRATFORD, CT 06614

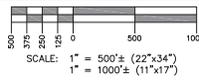
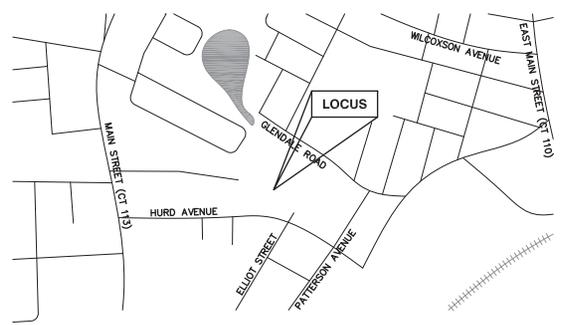
DRAWING INDEX

SHEET	DESCRIPTION	REVISION
T-1	TITLE SHEET	1
C-1	ABUTTERS MAP	0
C-2	EXISTING CONDITIONS	0
A-1	SITE PLAN	1
A-2	COMPOUND & MONOPOLE PLAN	1
A-3	ELEVATION	1
D-1 TO D-2	DETAILS	1

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER & AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- THESE PLANS ARE INTENDED FOR PERMITTING USE ONLY. NOT FOR CONSTRUCTION.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. "CALL BEFORE YOU DIG" (800) 922-4455 72-HOURS PRIOR TO ANY EXCAVATION.
- THIS SHEET SET WAS ORIGINALLY PRINTED TO ANSI D (22"x34") WITH 1" MARGINS. PRINTING TO ANSI B (11"x17") WILL RESULT IN A HALF-SCALE (1:2) SHEET SET WITH 1/2" MARGINS. CONFIRM ALL SCALED DISTANCES WITH GRAPHICAL SCALES SHOWN HEREIN.

VICINITY MAP



DRIVING DIRECTIONS

HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO WEST ST. TURN LEFT TO MERGE ONTO I-91 S. TAKE EXIT 17 FOR CT-15 S/W CROSS PKWY. MERGE ONTO CT-15 S. TAKE EXIT 53 FOR STATE ROUTE 110 TOWARD STRATFORD SHELTON. TURN LEFT ONTO MAIN ST. SLIGHT LEFT ONTO RIVER RD. CONTINUE STRAIGHT ONTO MAIN ST. TURN LEFT ONTO E MAIN ST. TURN RIGHT ONTO PATTERSON AVE. TURN RIGHT ONTO HURD AVE.

PROJECT INFORMATION

SITE TYPE: RAW LAND
SCOPE OF WORK: PROPOSED SHELTER WITH INTERNAL GENERATOR WITHIN FENCED COMPOUND AND MONOPOLE WITH RF EQUIPMENT TO REPLACE EXISTING LIGHT POLE.
SITE NAME: LONGBROOK PARK
SITE NUMBER: CT-1848S
SITE ADDRESS: GLENDALE ROAD STRATFORD, CT 06614
ASSESSOR'S TAX ID#: PARCEL 50.11-3-3
ZONING DISTRICT: (RM-1) - RESIDENTIAL
LATITUDE: 41° 12' 13.50" N (PROPOSED)
LONGITUDE: 73° 07' 36.55" W (PROPOSED)
DATUM: NAD83
PROPERTY OWNER: TOWN OF STRATFORD 2725 MAIN STREET STRATFORD, CT 06614
APPLICANT: NEW CINGULAR WIRELESS PCS, LLC ("AT&T") 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067
ENGINEER: PROTERRA DESIGN GROUP, LLC 116 PLEASANT STREET NORTHAMPTON, MA 01060 TEL: (413) 320-4918
SURVEYOR: NORTHEAST SURVEY CONSULTANTS 116 PLEASANT STREET SUITE 302 EASTHAMPTON, MA 01027 TEL: (413) 203-5144

PERMITTING

ProTerra
 DESIGN GROUP, LLC
 1 Short Street
 Suite 3
 Northampton, MA 01060
 Ph: (413)320-4918
 Fax: (413)320-4917

CLIENT:

 27 Northwestern Drive
 Salem, NH 03079

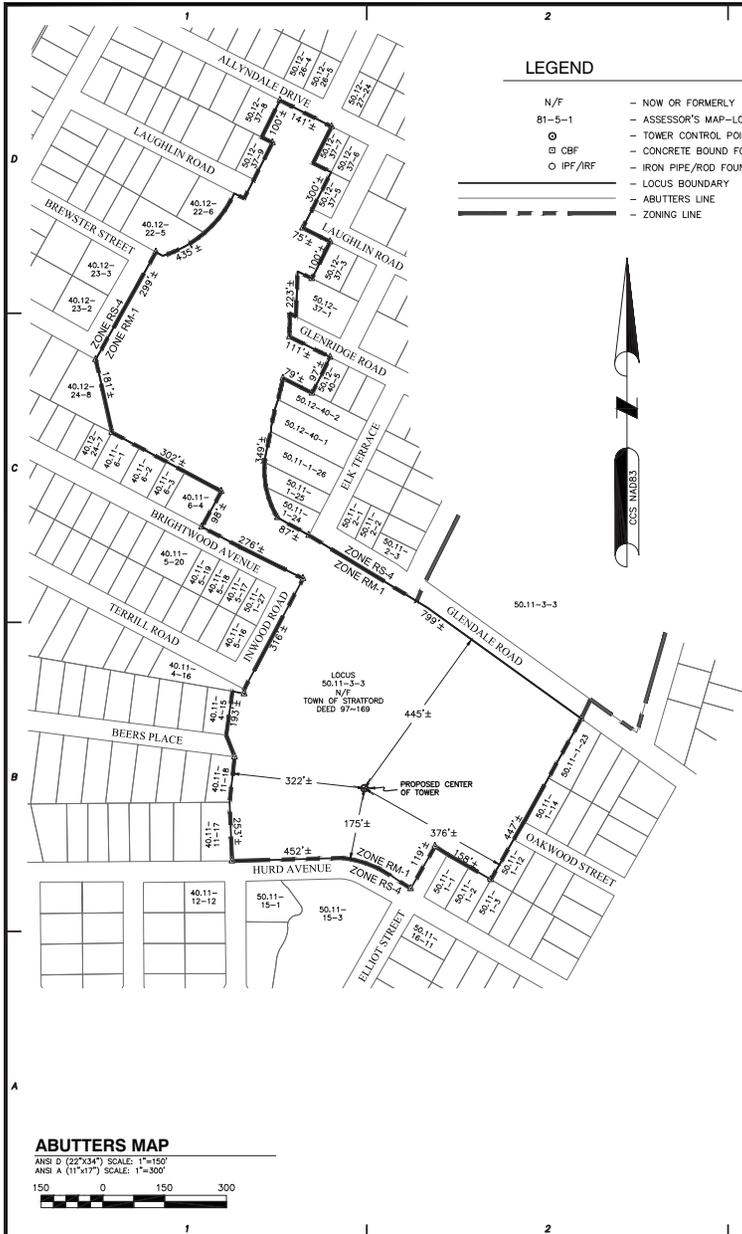
NO.	DATE	REVISIONS
0	3/6/14	ISSUED FOR REVIEW
1	3/22/14	ISSUED FOR PERMITTING

TITLE: SITE NAME: LONGBROOK PARK
 SITE NUMBER: CT-1848S
 ADDRESS: GLENDALE ROAD STRATFORD, CT 06614
APPLICANT: NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067

STAMP:

DATE: 3/6/14
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-053
SHEET TITLE:

TITLE SHEET
T-1



ABUTTERS LIST

50.11-2-1 N/F SEAN & CHRISTINE R HEFFERNAN 20 ELK TER STRATFORD, CT 06614-4312	50.12-37-1 N/F J&D DINAN LIVING TRUST 929 WHITE PLAINS RD #240 TRUMBULL, CT 06611	40.11-5-20 N/F MARK J & LUCY B FRATTAROLI 141 BRIGHTWOOD AVE STRATFORD, CT 06614-4111
50.11-2-2 N/F WILLIAM JACOBS 200 GLENDALE RD STRATFORD, CT 06614	50.12-37-3 N/F RONALD & JOHANNA BRELSFORD 473 LAUGHLIN RD-W STRATFORD, CT 06614-4345	40.11-6-1 N/F MARGARET M GOETZ 100 BRIGHTWOOD AVE STRATFORD, CT 06614
50.11-2-3 N/F DANIEL A & STACEE L GEORGE 5 CHARLTON ST STRATFORD, CT 06614-4332	50.12-37-5 N/F PAUL D SWANSON 120 BRIGHTWOOD AVE STRATFORD, CT 06614-4324	40.11-6-2 N/F JOSE R PACHECO 126 BRIGHTWOOD AVE STRATFORD, CT 06614-4110
50.11-1-1 N/F JAMES A FURBUSH 286 HURD AVE STRATFORD, CT 06614-5024	50.12-37-6 N/F RAVINDRA BISSOODIAL 1 OAK TER STRATFORD, CT 06614	40.11-6-3 N/F VAN N HO & BETH A ROGERS 126 BRIGHTWOOD AVE STRATFORD, CT 06614-4110
50.11-1-2 N/F WILLIAM & MARIA C MUNIZ 296 HURD AVE STRATFORD, CT 06614-5024	50.12-37-7 N/F THOMAS E & SHARON M CASELLI 479 ALLYNDALE DR STRATFORD, CT 06614-4307	40.11-6-4 N/F JEREMIAH C & PATRICIA SHEA 134 BRIGHTWOOD AVE STRATFORD, CT 06614-4110
50.11-1-3 N/F MARCEL & JILL BOLDUC 506 HURD AVE STRATFORD, CT 06614-5024	50.12-37-8 N/F GEORGE R WRIGHT 529 ALLYNDALE RD-W STRATFORD, CT 06614	40.11-12-12 N/F RUSSELL & LYNN LANZ 7 BRYANT PL STRATFORD, CT 06614-5016
50.11-1-12 N/F PETER C BUCKI 45 OAKWOOD ST STRATFORD, CT 06614	50.12-37-9 N/F RONALD J OGRODOWICZ 520 LAUGHLIN RD-W STRATFORD, CT 06614-4116	40.12-22-5 N/F NORMAN & ELVIRA KAMINSKI 120 BREWSTER ST STRATFORD, CT 06614-4108
50.11-1-14 N/F MARYLOU PELFREY 48 OAKWOOD ST STRATFORD, CT 06614-5118	50.12-40-1 N/F NICHOLAS A KLESZCZEWSKI 39 ELK TER STRATFORD, CT 06615	40.12-22-6 N/F CAROLYN E AGOGLIA 539 LAUGHLIN RD-W STRATFORD, CT 06614-4117
50.11-1-23 N/F BECKY LAUTENSLAGER 57 GLENDALE RD STRATFORD, CT 06614	50.12-40-2 N/F CHRISTOPHER E LARIZZA 59 ELK TER STRATFORD, CT 06614-4313	40.12-23-2 N/F WILLIAM A PAOLI 11 MARCUS DR STRATFORD, CT 06614-4120
50.11-1-24 N/F RETA H JANNETT, TRUSTEE 80 BRENNER TER STRATFORD, CT 06614	50.12-40-5 N/F JOHN C BREBETON 448 GLENDALE RD STRATFORD, CT 06614	40.12-23-3 N/F DENISE L SULLIVAN 100 BREWSTER ST STRATFORD, CT 06614
50.11-1-25 N/F STEPHEN J II TYLISZCZAK 19 ELK TER STRATFORD, CT 06614	40.11-11-17 N/F CHRISTOPHER & ALLISON PERLEY 178 HURD AVE STRATFORD, CT 06614-5022	40.12-24-7 N/F THOMAS J NUZZACI 86 BRIGHTWOOD AVE STRATFORD, CT 06614-4110
50.11-1-26 N/F ANNE DIERDRE MCNEIL 29 ELK TER STRATFORD, CT 06614	40.11-11-18 N/F STEVEN C IPPOLITO 191 BEERS PL STRATFORD, CT 06615	40.12-24-8 N/F JAMES V & JANIS M MCCUIRE 75 LONDON ST STRATFORD, CT 06614-4115
50.11-1-27 N/F ROBERT J & SUSAN M NUTTALL 189 BRIGHTWOOD AVE STRATFORD, CT 06614-4111	40.11-4-15 N/F DAVID C & DONNA M MENDEL 184 BEERS PL STRATFORD, CT 06614-5029	40.12-24-15 N/F DAVID M RUSSO 165 TERRILL RD STRATFORD, CT 06614
50.11-15-3 N/F TOWN OF STRATFORD 2725 MAIN STREET STRATFORD, CT 06614	40.11-4-16 N/F LENA W GIBEL 184 TERRILL RD STRATFORD, CT 06614-4130	40.11-5-17 N/F JOSEPH & DONNA SYLVIA 179 BRIGHTWOOD AVE STRATFORD, CT 06614-4111
50.11-16-11 N/F PAMELA C BANKS 200 ELLIOTT ST STRATFORD, CT 06614-5003	50.12-26-4 N/F EDWARD J DENES JR 510 ALLYNDALE DR STRATFORD, CT 06614-4308	40.11-5-18 N/F FELICIA & GEORGE KALAPOUS 502 ALLYNDALE DR STRATFORD, CT 06614-4308
50.12-27-24 N/F LINDSAY BACHLECHNER 10 BELL TER STRATFORD, CT 06614	50.12-27-24 N/F LINDSAY BACHLECHNER 10 BELL TER STRATFORD, CT 06614	40.11-5-19 N/F THOMAS J GORDHAMER 159 BRIGHTWOOD AVE STRATFORD, CT 06614-4111

SURVEY NOTES

1. 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
PROPOSED CELLULAR MONOPILE

2. PROPERTY LINE SHOWN HERON ARE FROM RECORD DEEDS, PLOTS, AND TAX MAPS AS OVERLAIN ON ANY MONUMENTATION OR OTHER EVIDENCE THAT MAY HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY. A PROPERTY LINE SURVEY WAS NOT PERFORMED BY PROTERRA DESIGN GROUP, LLC OR ITS AFFILIATES AND SUBCONTRACTORS AND AS A RESULT THE PROPERTY LINES SHOWN ARE APPROXIMATE AND DO NOT PRESENT A PROPERTY/BOUNDARY OPINION.

3. BASE MAP PREPARED BY NORTHEAST SURVEY CONSULTANTS, PC ON DECEMBER 16, 2013.

4. HORIZONTAL DATUM IS GRID NORTH AS DETERMINED BY THE CONNECTICUT STATE PLANE COORDINATE SYSTEM AND IS BASED UPON GPS OBSERVATIONS TAKEN AT THE TIME OF SURVEY.

5. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND/OR EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: CALL BEFORE YOU DIG: 1-800-922-4455

6. THE SURVEY PLAN IS SUBJECT TO ANY STATEMENT OF FACTS THAT AN UP-TO-DATE ABSTRACT OF TITLE WOULD DISCLOSE.

7. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS, OR RESTRICTIONS OF RECORD.

8. THE LOCUS PARCEL AS SHOWN IS LOCATED IN THE TOWN OF STRATFORD ZONE "RM-1" RESIDENTIAL DISTRICT.

9. LATITUDE/LONGITUDE/ELEVATIONS WERE OBTAINED UTILIZING CORS BASE STATIONS. LATITUDE/LONGITUDE ARE REFERENCE TO NAD83 CONNECTICUT STATE COORDINATES SHOWN. IF ANY ARE EXPRESSED IN U.S. SURVEY FEET, ELEVATIONS ARE REFERENCED TO NAVD83. TOP OF STRUCTURE HEIGHT, IF ANY, IS DETERMINED BY VERTICAL ANGLE OR BY ACTUAL LOCATION INFORMATION BASED UPON A FAA 1A CERTIFICATION ACCURACY LEVEL AS DEFINED:

HORIZONTAL ± 20 FEET/6m
VERTICAL ± 3 FEET/1m

10. THE PROJECT AREA IS LOCATED IN FLOOD ZONE "X" (UNSHADED, AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE), AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) AS SHOWN ON FLOOD INSURANCE RATE MAP FOR THE TOWN OF STRATFORD; COMMUNITY PANEL NUMBER 0900IC 0434 G EFFECTIVE DATE JUNE 18, 2010.

LOCUS DEED & OWNER OF RECORD

1. THE LOCUS PARCEL IS SHOWN AS LOT 3 ON THE TOWN OF STRATFORD TAX ASSESSOR'S MAP NO. 50, BLOCK 11-3.

PROPERTY OWNER: TOWN OF STRATFORD
2725 MAIN STREET
STRATFORD, CT 06614

LOCUS DEED REF.: DEED BOOK 97, PAGE 169

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. Goman, P.L.S.
CHARLES G. GOMAN, P.L.S. #70103

ProTerra DESIGN GROUP, LLC

1 Short Street
Suite 3
Northampton, MA 01063
Ph: (413)320-4918
Fax: (413)320-4917

CLIENT:

SAI

27 Northwestern Drive
Salem, NH 03079

NO.	DATE	REVISIONS
0	03/06/14	ISSUED FOR REVIEW

SITE NAME: **LONGBROOK PARK**
SITE: **CT-1848-S**
ADDRESS: **GLENDALE ROAD**
STRATFORD, CT 06614

NEW CIRCULAR
WIRELESS P.S., LLC
PROPERTY SURVEY DRUG
ROCKY HILL, CT 06067

at&t

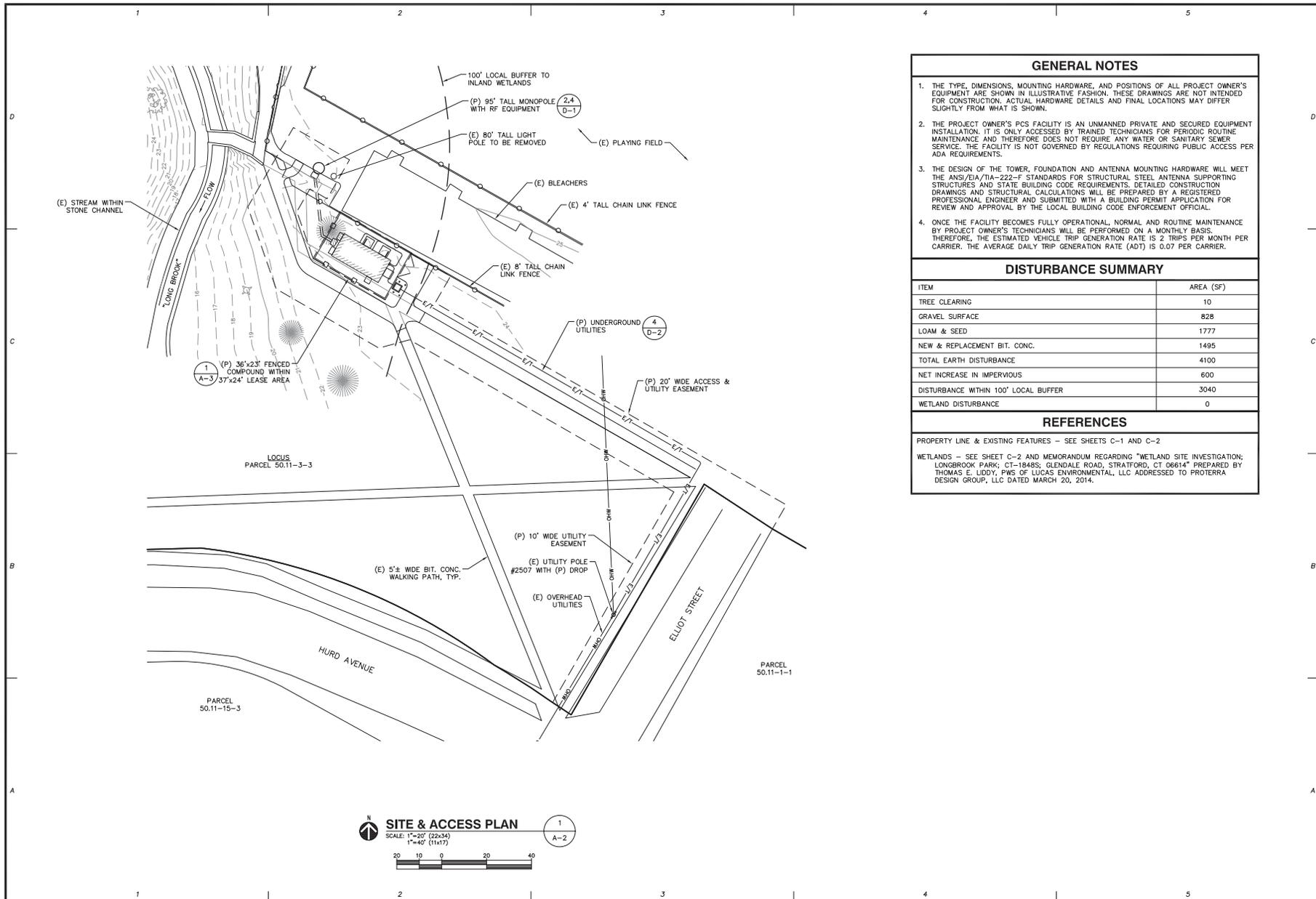
APPLICANT:

STAMP:

DATE: 03/06/2014
DRAWN: JDG
CHECK: CGG
SCALE: 1" = 150'
JOB NO.: 13-223
SHEET TITLE:

ABUTTERS MAP

C-1



GENERAL NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
2. THE PROJECT OWNER'S PCS 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. THE DESIGN OF THE TOWER, FOUNDATION AND ANTENNA MOUNTING HARDWARE WILL MEET THE ANSI/EIA/71A-222-F STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS. DETAILED CONSTRUCTION DRAWINGS AND STRUCTURAL CALCULATIONS WILL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH A BUILDING PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICIAL.
4. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY PROJECT OWNER'S TECHNICIANS WILL BE PERFORMED ON A MONTHLY BASIS. THEREFORE, THE ESTIMATED VEHICLE TRIP GENERATION RATE IS 2 TRIPS PER MONTH PER CARRIER. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS 0.07 PER CARRIER.

DISTURBANCE SUMMARY

ITEM	AREA (SF)
TREE CLEARING	10
GRAVEL SURFACE	828
LOAM & SEED	1777
NEW & REPLACEMENT BIT. CONC.	1495
TOTAL EARTH DISTURBANCE	4100
NET INCREASE IN IMPERVIOUS	600
DISTURBANCE WITHIN 100' LOCAL BUFFER	3040
WETLAND DISTURBANCE	0

REFERENCES

PROPERTY LINE & EXISTING FEATURES — SEE SHEETS C-1 AND C-2
 WETLANDS — SEE SHEET C-2 AND MEMORANDUM REGARDING "WETLAND SITE INVESTIGATION; LONGBROOK PARK; CT-18485, GLENDALE ROAD, STRATFORD, CT 06614" PREPARED BY THOMAS E. LIDDY, PWS OF LUCAS ENVIRONMENTAL, LLC ADDRESSED TO PROTERRA DESIGN GROUP, LLC DATED MARCH 20, 2014.

CLIENT:



27 Northwestern Drive
 Salem, NH 03079

NO.	DATE	REVISIONS
0	3/6/14	ISSUED FOR REVIEW
1	3/27/14	ISSUED FOR PERMITTING

SITE NAME: LONGBROOK PARK
SITE NUMBER: CT-18485
ADDRESS: GLENDALE ROAD
 STRATFORD, CT 06614

NEW CIRCULAR WIRELESS P.S. LIC. OFF. OF PROFESSIONAL REG. BRIDGE ROCKY HILL, CT 06067



DATE: 3/6/14
 DRAWN: MJV
 CHECK: JMM/TEJ
 SCALE: SEE PLAN
 JOB NO.: 13-053

SHEET TITLE:
SITE & ACCESS PLAN

A-2

CLIENT:



27 Northwestern Drive
Salem, NH 03079

NO.	DATE	REVISIONS
0	3/6/14	ISSUED FOR REVIEW
1	3/27/14	ISSUED FOR PERMITTING

SITE NAME: LONGBROOK PARK
SITE NUMBER: CT-18485
ADDRESS: GLENDALE ROAD
STRAITFORD, CT 06614

APPLICANT:
at&t

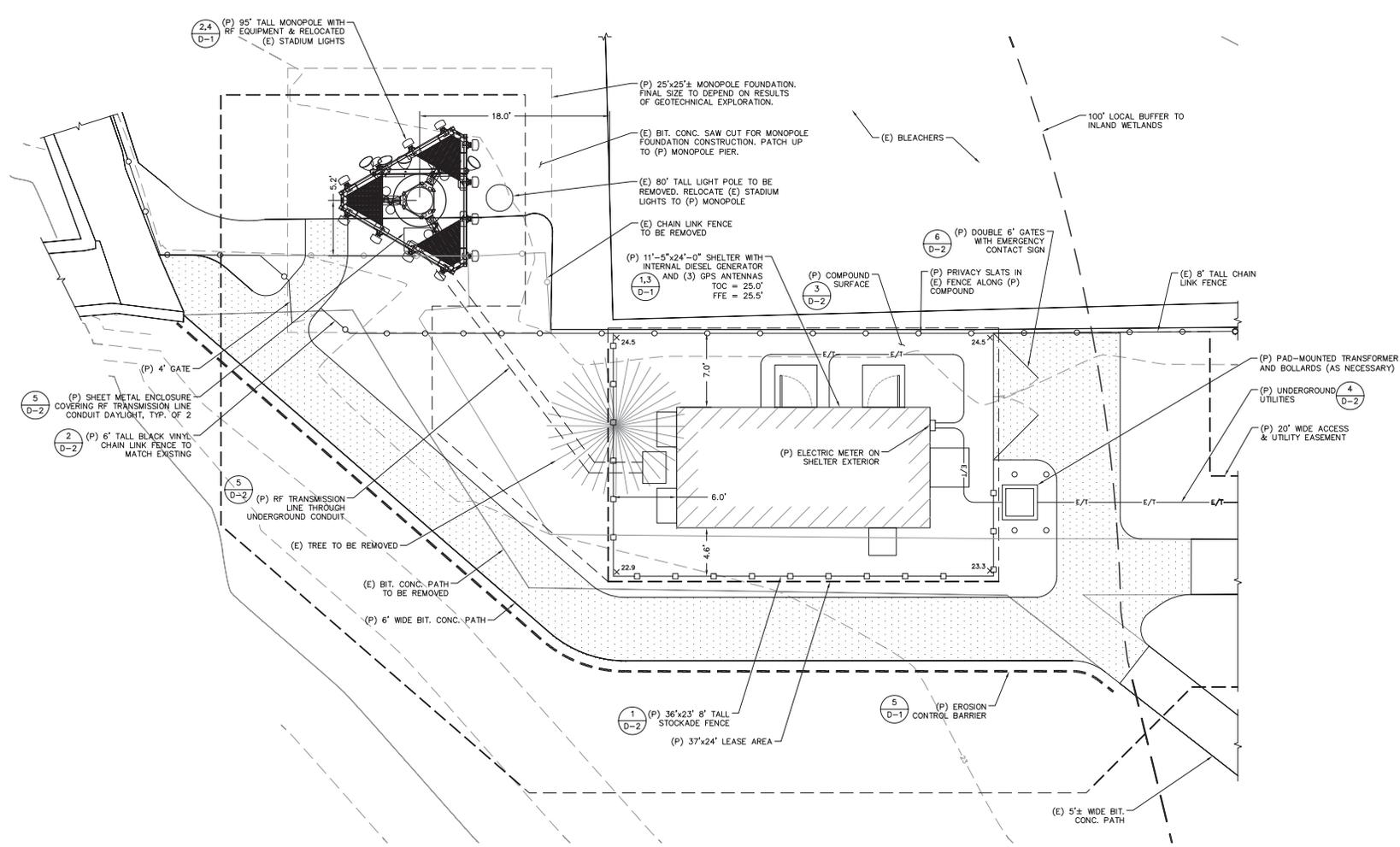
NEW CIRCULAR
WIRELESS P.S., LLC
C/O AT&T WIRELESS DRIVE
ROCKY HILL, CT 06067



DATE: 3/6/14
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-053

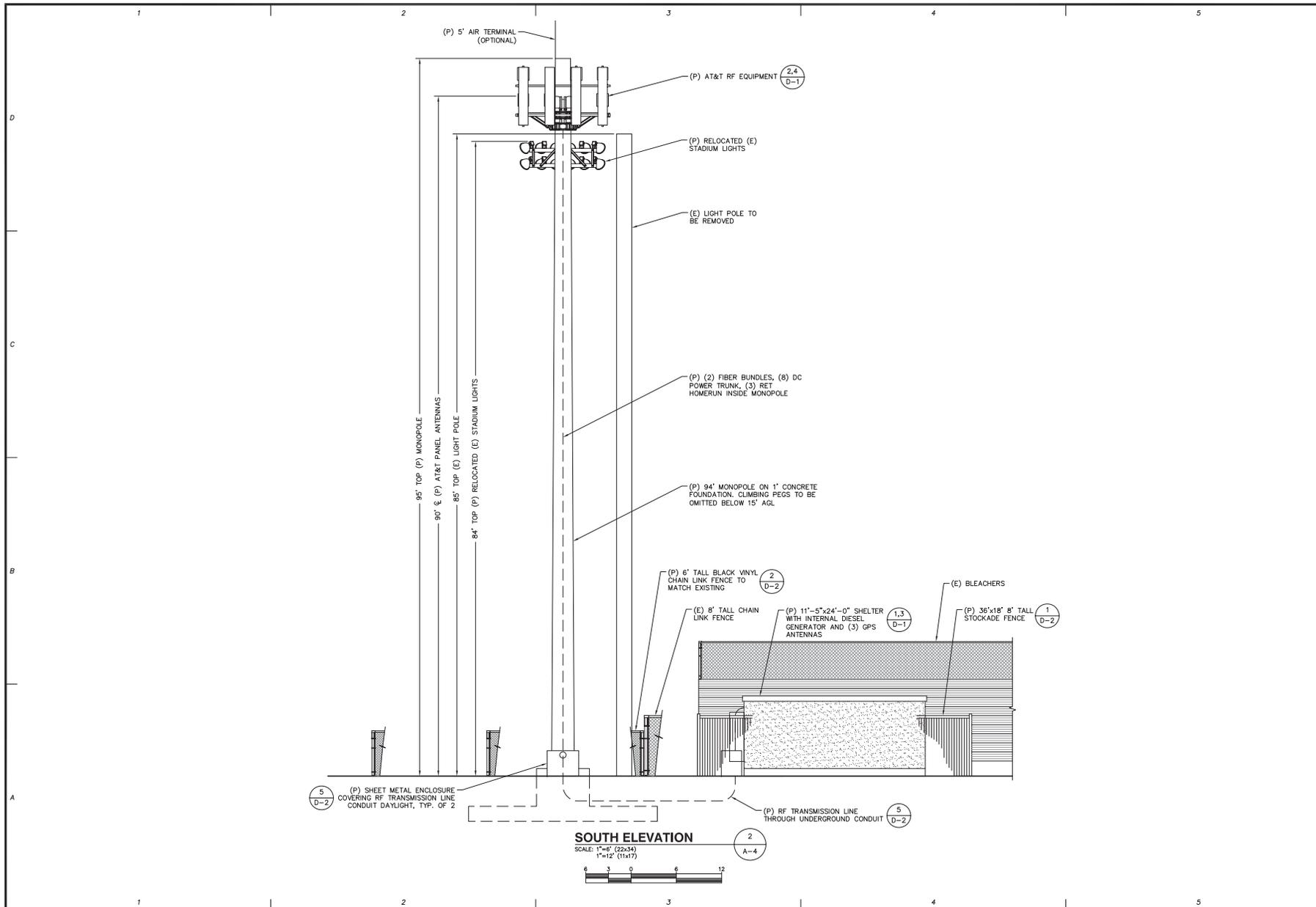
SHEET TITLE:
COMPOUND & MONOPOLE PLAN

A-3



COMPOUND & MONOPOLE PLAN
SCALE: 1"=5' (22x34)
1"=10' (11x17)

1 (A-3)



CLIENT:

27 Northwestern Drive
Salem, NH 03079

NO.	DATE	REVISIONS
0	3/6/14	ISSUED FOR REVIEW
1	3/27/14	ISSUED FOR PERMITTING

TITLE:

SITE NAME: **LONGBROOK PARK**
SITE NUMBER: **CT-1848S**
ADDRESS: **GLENDALE ROAD**
STRAITFORD, CT 06614

APPLICANT:

NEW CINCULAR
WIRELESS P.S., LLC
300 W. WATERSHIP DRIVE
ROCKY HILL, CT 06067

STAMP:

DATE: 3/6/14
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-053
SHEET TITLE:

ELEVATION

A-4

NO.	DATE	REVISIONS
0	3/6/14	ISSUED FOR REVIEW
1	3/22/14	ISSUED FOR PERMITTING

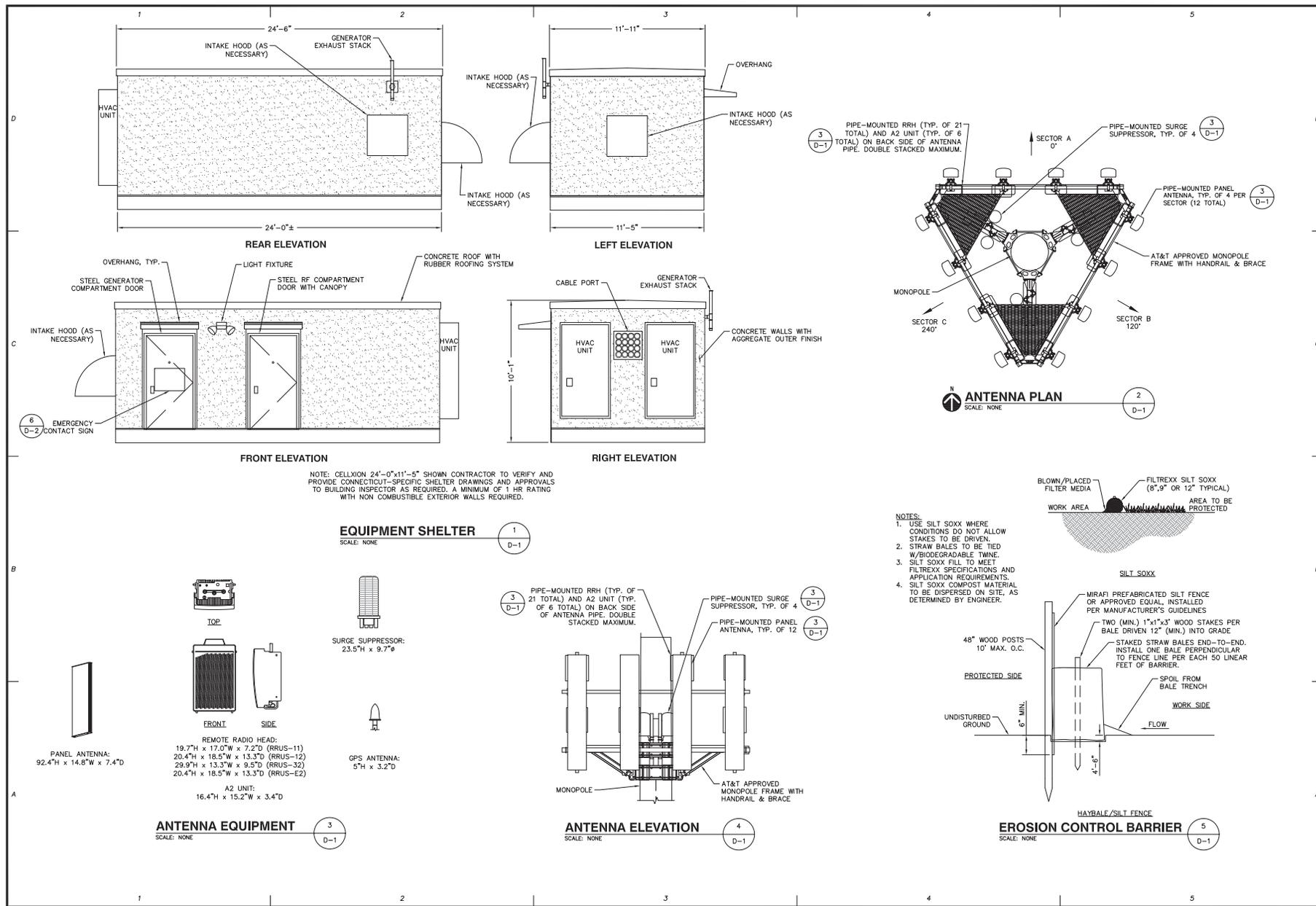
at&t
NEW CINCINNATI
WIRELESS P.S., LLC
ATTN: PROJECT MGR
CAMP WINTERBUSH DRIVE
ROCKY HILL, CT 06067

STAMP:
STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 24386
EXPIRES 12/31/14
3/27/14

DATE: 3/6/14
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-053
SHEET TITLE:

DETAILS

D-1



ATTACHMENT C



Stratford, Connecticut

MINUTES OF MEETING

THE STRATFORD TOWN COUNCIL CONDUCTED A REGULARLY SCHEDULED MEETING ON **MONDAY, JUNE 9, 2014** IN COUNCIL CHAMBERS OF TOWN HALL, 2725 MAIN STREET, STRATFORD, CT PURSUANT TO NOTICE DULY POSTED.

CALL TO ORDER: 8:10 p.m.

PRESIDING: Council Chairman Joseph Kubic

COUNCIL MEMBERS IN ATTENDANCE: Mr. Peter Massey, Mr. Matthew Catalano, Ms. Stephanie Philips, Mr. Jason Santi, Mr. Brian Dempsey, Mr. Kenneth Poisson, Mr. James Connor, Mr. Joseph Kubic, Mr. Paul Hoydick

COUNCIL MEMBERS ABSENT: Mr. Craig Budnick

OTHERS IN ATTENDANCE: Mayor John Harkins, Town Attorney Timothy Bishop, CAO Steven Nocera, Chief of Staff Marc Dillon, Finance Director Susan Collier

INVOCATION PRESENTED BY: Eighth District Council Member Hon. James Connor followed by the Pledge of Allegiance. A moment of silence was observed in memory of the Late State Representative Lawrence Miller and the Late Second District Town Council member Lewis Davis.

1. APPROVAL OF MINUTES — Public forum, regularly scheduled meeting, and executive session of May 12, 2014.

RESOLVED: That the reading of the foregoing minutes be dispensed with as copies thereof have been previously provided to each Council Member and the same be and are hereby approved.

A MOTION WAS MADE BY MR. DEMPSEY SECONDED BY MR. SANTI TO APPROVE THE FOREGOING MINUTES. THE MOTION PASSED 8 TO 0 WITH MR. CATALANO ABSENT.

2. CEREMONIAL PRESENTATIONS AND AWARDS — None

3. COUNCIL MEMBERS RESPONSE TO COMMENTS FROM PUBLIC FORUM

Mr. Catalano — re: RR Station parking, Shakespeare Festival

Mr. Santi — re: tree removal

Mr. Dempsey — re: Landscaping, tree trimming

Mr. Hoydick — re: RR Station Parking

5.3 TOWN ATTORNEY'S REPORT

5.3.1 CLAIMS REPORT — Mr. Bishop reported that \$29,000 in claims have been paid in 2 months.

5.3.2 SHORT BEACH PARK FEE SCHEDULE — Ordinance Amending § 203-9 C of Town Code. (appended on page 24)

RESOLVED: That the first reading of the above entitled Ordinance be and is hereby dispensed with as copies thereof have been previously furnished to each member of the Town Council, and that the same be adopted as a first reading and referred to the Ordinance Committee for a public hearing.

A MOTION WAS MADE BY MR. DEMPSEY, SECONDED BY MR. HOYDICK TO REFER THE FOREGOING ORDINANCE TO ORDINANCE COMMITTEE FOR A PUBLIC HEARING. THE MOTION CARRIED 9 TO 0.

5.3.8 KITEWISE

A MOTION WAS MADE BY MR. CONNOR, SECONDED BY MR. DEMPSEY TO STRIKE THE FOREGOING ITEM FROM THE AGENDA. THE MOTION CARRIED 9 TO 0.

5.3.3 AT&T TOWER — Structure Lease at Longbrook — Executive Session requested.

7.2.1 MASTER PERSONAL SERVICES AGREEMENT – INDEPENDENT CONTRACTOR — (Connecticut Free Shakespeare) — Executive Session Requested.

Mr. Bishop requests taking the foregoing 2 items, 5.3.3 and 7.2.1, into executive session for the purpose of contract negotiations. Mr. Bishop would like that motion to include all members of the Stratford Town Council, the Mayor and the Mayor's staff member Mr. Dillon, Mr. Nocera, and himself.

A MOTION WAS MADE BY MR. SANTI SECONDED BY MR. HOYDICK TO ENTER INTO EXECUTIVE SESSION TO DISCUSS THE ABOVE-CITED ITEMS FOR THE REASON AS STATED ABOVE WITH EXECUTIVE SESSION TO INCLUDE THE ABOVE MENTIONED INDIVIDUALS. THE MOTION CARRIES 9 TO 0.

5.3.4 231 KING STREET — Executive Session requested.

5.3.5 25 NORTH PARADE — Executive Session requested.

5.3.6 175 PATRICIA DRIVE — Executive Session requested.

5.3.7 1525 JAMES FARM ROAD — Executive Session requested.

5.3.9 383 SEDGEWICK AVENUE — Executive Session requested.

5.3.10 PROPOSED SALE OF 993 HONEYSPOT ROAD. — Lease with Purchase Option. — Executive Session requested.

Mr. Bishop requests taking the foregoing 6 items, 5.3.4, 5.3.5, 5.3.6, 5.3.7, 5.3.9, and 5.3.10, into executive session for the purpose of discussion of real estate acquisitions and/or transactions. Mr. Bishop would like that motion to include all members of the Stratford Town Council, the Mayor and the Mayor's staff member Mr. Dillon, Mr. Nocera, and himself.

A MOTION WAS MADE BY MR. SANTI SECONDED BY MR. HOYDICK TO ENTER INTO EXECUTIVE SESSION TO DISCUSS THE ABOVE-CITED ITEMS FOR THE REASON AS STATED ABOVE WITH EXECUTIVE SESSION TO INCLUDE THE ABOVE MENTIONED INDIVIDUALS. THE MOTION CARRIES 9 TO 0.

*Stratford Town Council meeting recessed to enter into executive session: 8:23 p.m.
Stratford Town Council meeting reconvened: 9:30 p.m.*

ACTION RE: ITEMS REFERRED TO EXECUTIVE SESSION

5.3.3 AT&T TOWER — Structure Lease at Longbrook

RESOLVED: that the opinion of the Town Attorney is accepted and the Mayor be and is hereby authorized to enter in contract with AT&T.

A MOTION WAS MADE BY MR. DEMPSEY SECONDED MR. SANTI TO AUTHORIZE THE MAYOR TO ENTER INTO CONTRACT WITH AT&T. THE MOTION PASSED 9 - 0.

5.3.4 231 KING STREET

A MOTION WAS MADE BY MR. SANTI, SECONDED BY MR. DEMPSEY TO PLACE THE FOREGOING ITEM ON THE TABLE. THE MOTION CARRIED 9 TO 0.

5.3.5 25 NORTH PARADE

A MOTION WAS MADE BY MR. DEMPSEY, SECONDED BY MR. SANTI TO PLACE THE FOREGOING ITEM ON THE TABLE. THE MOTION CARRIED 9 TO 0.

5.3.6 175 PATRICIA DRIVE

5.3.7 1525 JAMES FARM ROAD

RESOLVED: that the recommendation of the Town Attorney, as discussed in executive session, be and is hereby approved.

A MOTION WAS MADE BY MR. SANTI, SECONDED BY MR. MASSEY TO APPROVE THE TOWN ATTORNEY'S RECOMMENDATION AS DISCUSSED IN EXECUTIVE SESSION FOR ITEMS 5.3.6 AND 5.3.7 ABOVE. THE MOTION PASSED WITH 7 IN FAVOR, 1 OPPOSED (MR. DEMPSEY), AND ONE ABSTENTION DUE TO A CONFLICT OF INTEREST (MS. PHILIPS).

5.3.9 383 SEDGEWICK AVENUE

RESOLVED: that the recommendation of the Town Attorney, as discussed in executive session, be and is hereby approved.

ATTACHMENT D

ProTerra

DESIGN GROUP, LLC

February 28, 2014

New Cingular Wireless PCS, LLC
dba AT&T Mobility
500 Enterprise Drive
Rocky Hill, CT 06067

**RE: Tree Inventory
Site CT-1848S (Longbrook Park)
Glendale Road
Stratford, CT**

A site survey was completed at the subject site in December of 2013 by Northeast Survey Consultants. A requirement of the survey involved determining the location of all trees within the topographic survey area with a diameter at breast height of 6" or larger. There is approximately one tree proposed to be removed within the area of the proposed compound as shown in the permitting plan set.

If you have any questions or need further information, please do not hesitate to call.

Sincerely,
ProTerra Design Group, LLC



Jesse Moreno, PE
Managing Partner

ATTACHMENT E

Michael Lawton
 SAI Communications
 260 Cedar Hill St.
 Marlborough, MA 01752
Mike.Lawton@sai-comm.com



April 29, 2014

Connecticut Siting Council

Subject: AT&T Wireless, CT1848S – Longbrook Park

Dear Connecticut Siting Council:

At the request of AT&T Wireless, SAI Communications has performed an assessment of the RF Power Density at the proposed site located at Glendale Road, Stratford, CT. Calculations were done in compliance with FCC OET Bulletin 65. This report provides an FCC compliance assessment based on a "worst-case" analysis that all transmitters are simultaneously operating at full power and pointing directly at the ground.

FCC OET Bulletin 65 formula:

$$S = \frac{2.56 * 1.64 * ERP}{4 * \pi * R^2}$$

Ground Level

Transmission Mode	Antenna Centerline AGL (ft)	Frequency (MHz)	Number of Channels	Effective Radiated Power per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	% MPE (Uncontrolled/General Public)
AT&T UMTS	90	850	2	500.00	0.0444	0.5667	7.83%
AT&T UMTS	90	1900	2	500.00	0.0444	1	4.44%
AT&T LTE 700 BC/DE	90	700	2	500.00	0.0444	0.4667	9.51%
AT&T LTE 850	90	850	1	500.00	0.0222	0.5667	3.92%
AT&T LTE 1900	90	1900	2	500.00	0.0444	1	4.44%
AT&T LTE WCS	90	2300	1	500.00	0.0222	1	2.22%
Total							32.37%

Bleacher Level

Transmission Mode	Antenna Centerline AGL (ft)	Frequency (MHz)	Number of Channels	Effective Radiated Power per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	% MPE (Uncontrolled/General Public)
AT&T UMTS	90	850	2	500.00	0.0755	0.5667	13.33%
AT&T UMTS	90	1900	2	500.00	0.0755	1	7.55%
AT&T LTE 700 BC/DE	90	700	2	500.00	0.0755	0.4667	16.19%
AT&T LTE 850	90	850	1	500.00	0.0378	0.5667	6.66%
AT&T LTE 1900	90	1900	2	500.00	0.0755	1	7.55%
AT&T LTE WCS	90	2300	1	500.00	0.0378	1	3.78%
Total							55.06%

Conclusion: AT&T's proposed antenna installation is calculated to be within 55.06% of FCC Standard for General Public/Uncontrolled Maximum Permissible Exposure (MPE).

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Lawton', with a long horizontal stroke extending to the right.

Michael Lawton
SAI Communications

ATTACHMENT F

**Preparation of Photographic Renderings for
Longbrook Park**

AT&T Wireless Communication Facility
Glendale Road, Stratford, CT 06614
(AT&T Site Number CT-1848S)

Prepared on behalf of New Cingular Wireless PCS, LLC (“AT&T”)



April 11, 2014

Submitted by:

Benjamin E. Caron

Benjamin E. Caron
Caron & Associates Design
301 Concord Street
Haverhill, MA 01830
ben@cadsims.com
Tel: (978) 360-3671
Fax: (978) 945-0090

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1.	Introduction.....	3
2.	Qualifications and Overview	3
3.	The Preparation of Photographic Renderings for the Site	4
4.	Summary	7

1. Introduction

New Cingular Wireless PCS, LLC (“AT&T”) is applying for approval to construct and operate a ground-mounted wireless communication facility (the “Facility”) at a location in Longbrook Park on Glendale Road in Stratford, CT.

- Caron & Associates Design (“Cadsims”) has prepared computer-aided photographic renderings of the site that provide an accurate depiction of the size and potential visibility, with respect to the surrounding features, of the proposed Facility at the Site.

This report explains the procedures that we used to prepare the Photo-Renderings.

2. Qualifications and Overview

I am the president of Caron & Associates Design, which is a consulting firm specializing in visibility analysis and photographic simulations of proposed wireless communications facilities construction for federally-licensed wireless communication service providers such as AT&T. Before founding Cadsims in 2003, I worked for Bergman & Associates Inc., a professional engineering firm, for about seven years (from 1996 to 2003) as a project engineer designing and providing photographic simulations of proposed wireless facilities for wireless carriers including AT&T, Sprint PCS, Omnipoint, Nextel Communications of the Mid-Atlantic, and Nextel Partners. In addition, I worked for Turning Mill Consultants, a project design and development firm, for about three years (from 2003 to 2006) as a Project Construction Manager for the development of wireless communications facilities.

I have extensive experience providing photographic renderings for major wireless carriers. For example, at Bergman & Associates Inc., I was involved in the site design of over 500 telecommunications sites and completed over 185 photographic renderings for major wireless carriers (as well as for developers and commercial and residential property owners). Since founding Cadsims, I have completed an additional 1400+ photographic renderings for major wireless carriers, developers, homeowners and wind energy companies using software applications such as AutoCAD and AutoDesk 3DS Max. In addition, I have provided expert witness testimony on behalf of major wireless carriers for proposed wireless communications facilities in New York and New Hampshire. I studied both Architectural and Civil Technology and Civil Engineering at the University of New Hampshire in Durham, receiving my degree in 1996.

In brief, Cadsims prepares computer-aided photographic renderings for wireless communication facilities for clients such as AT&T according to the following set of procedures. First, using information provided by the client, a balloon survey is conducted by flying a large, brightly colored balloon in the location of the proposed facility (or as close as possible to the location of the proposed facility, where, for example, the existing tree canopy is too dense to allow a balloon through without popping it) at a known height. Photographs of this balloon are then taken from several different locations at varying distances and in varying directions from the location of the proposed facility, for which the balloon serves as a visual reference point. As photographs are taken from these different locations, the position of each such location is

recorded using a mapping-grade Global Positioning System (“GPS”) receiver. Subsequently, specialized photo-rendering software is used to create a three-dimensional (“3D”) model of the specific locations of (a) the proposed wireless facility, (b) the balloon flown and (b) the camera as it was positioned for each photograph taken. For each camera position, this software is used to create an accurately sized and positioned virtual image of the proposed facility, and then to merge this virtual image with the photograph taken at that camera position, in order to create a composite photograph that accurately depicts the relative size and potential visibility of the proposed facility with respect to the surrounding features.

3. The Preparation of Photographic Renderings for the Longbrook Park Site

We used the following procedures to prepare the Photo-Renderings:

- On March 18th, 2014, my associates left the office and traveled to the site at 6:00am.
- We used our survey equipment to locate the proposed tower location in 3D space using the coordinates and dimensions supplied by the client, so that we could record and use this location information in the computer-aided preparation of the Photo-Renderings. More specifically, we used a Trimble GeoXH handheld GPS receiver with a Trimble Zephyr dual frequency GPS antenna to ensure that we obtained the accuracies required for computer-aided photographic rendering projects. The reported accuracy of the Trimble GPS unit is approximately 4” in both horizontal and vertical space. Using this unit, my associate located the spot and then recorded high-precision GPS readings for the proposed tower location (also the balloon-flown location) in order to be able accurately to recreate this position for my 3D model. They then accurately located and vertically mapped the existing light pole tower that is to be removed.
- Once they confirmed the proposed tower location, they commenced the balloon survey by setting up the balloon. They were able to place and anchor the balloon in the exact location as there were no trees overhead.
- They then used one Chloroprene “Cloud Buster” weather balloon tethered on a low-weight, low-stretch, high-strength line for the flight. The balloon was a red balloon inflated to a 7’ diameter. Prior to the survey, we had preconfigured the tether line and the balloon specifically for use in the preparation of the Photo-Renderings. Specifically, we had: (1) prepared a loop at the end of the rope, measured off a total of 95’ feet of rope from the first tie-loop and created a second tie-loop; (3) using a reel tape measure, confirmed that the length of the tether line from the first tie-loop to the second tie-loop was 95’; and (4) tied a piece of flagging to the second loop with “95 Longbrook” written on it, so that we would know when we arrived on-site to perform the survey for the Photo-Renderings that this was the proper tether line to use for the survey. As a result of this pre-configuration, the bottom of the balloon when flying (if the tether line were perfectly vertical) would be at 95’ (with an overall height to the top of that balloon of 102’+/-, based on the balloon’s diameter). The balloon was in the air and the tether line was extended to its full 95’ length at approximately 10:00 am.

- Generally, when viewed from afar, balloons flown in a balloon survey provide an approximate indication of the angle and amount of their drift due to weather conditions only when they are drifting in a direction perpendicular to the observer’s line of sight. For our work, this means that when we are standing in the various locations from which we take the photographs of the balloons as part of the survey, we may only be able to see the angle and amount of balloon drift ourselves to the extent that the balloon is drifting perpendicularly to our line of sight. Therefore, to ensure the accuracy of the survey and, ultimately, the photographic renderings to be prepared from the survey results, it is my standard practice to have a “spotter” present throughout the survey at the base of the balloon tether line. The spotter’s job is to take and record balloon azimuth and inclination readings and to communicate this information to the photographer in real time so that we can take the photographs when the balloon and tether line are flying as nearly vertical as possible, that is, at an angle that is greater than 80 degrees from the horizontal plane at the specific time of the photograph. Cadsims typically uses a Suunto Tandem precision compass and clinometer to take and record balloon azimuth and inclination readings. We used this device to confirm our balloons were over the requisite 80 degrees when taking each photograph. In this case we also attached a digital inclinometer directly to the tether line to verify inclination at each photo location.
- We took photographs of the balloons anchored at the Site from 10 different locations around the Site using a Canon EOS5D Mark II high resolution 21 megapixel full frame digital camera. For each of these 10 locations, when we were in position to take a photograph, the photographer contacted the assistant by cell phone or walkie talkie (if there was no cell phone service).¹ The assistant, who acted as the spotter for this survey and was stationed at the base of the balloon tether line, used the Suunto Tandem precision compass and clinometer to provide the photographer with real-time information about balloon drift and inclination angles. At each photograph location, we waited for the balloons to fly in a relatively vertical position. As noted above, for the purpose of this survey, “relatively vertical” meant that the balloons and tether line were flying at an angle greater than 80 degrees from the horizontal plane at the specific time of the photograph. At each photograph location, the wind subsided sufficiently for the balloon to fly in a relatively vertical position, and we were able to take photographs in which the balloon and tether line were flying in such a “relatively vertical” position. It should be noted that we did not concern ourselves with how accurate the balloon was when the existing light pole was visible in the photo as that was a much more accurate vertical reference to use for the 3D Model (as it did not move at all regardless of the wind). The only 2 photolocations that truly used the balloon as the reference were locations #8 and #10. The balloons were very nearly vertical during the taking of those 2 particular photographs.
- At each of the 10 photograph locations, after the photographer finished taking his photographs, he used the Trimble GPS unit to record a high-precision GPS reading in order to be able accurately to recreate that the specific photograph location’s position for my 3D model. We followed this procedure at each photograph location. This enabled

¹ AT&T is proposing a new tower to address a gap in its coverage in this area, so the spotter and I were equipped with cell phones using a different carrier’s service during this work.

me to use the GPS readings for each of the photographic locations, and the GPS reading for the proposed tower location to determine the distance from the specific photographic location to the proposed tower location accurately within 12 inches or better. The following table provides the distances from each photographic location to the proposed tower location:

PHOTOGRAPHIC LOCATION	DISTANCE TO PROPOSED TOWER LOCATION
1	~462 feet +/- (0.09 mile)
2	~567 feet +/- (0.11 mile)
3	~409 feet +/- (0.08 mile)
4	~234 feet +/- (0.04 mile)
5	~549 feet +/- (0.10 mile)
6	~940 feet +/- (0.18 mile)
7	~954 feet +/- (0.18 mile)
8	~5430 feet +/- (1.03 mile)
9	~1459 feet +/- (0.28 mile)
10	~2498 feet +/- (0.47 mile)

- Throughout the taking of the photographs, the wind was light with light breezes and the balloon was flying well. After we completed taking the photographs, we removed the balloon from the site at approximately 3:21pm.
- When they returned to my office, I downloaded the data in the Trimble GPS unit and the digital camera to my office computers. I used Trimble GPS Pathfinder Office software to convert the coordinates of the balloon/tether line location and the photograph locations into Connecticut State plane coordinates so that I could bring them into AutoCAD (which is one of the most widely used computer-aided design software applications for 2D and 3D design and drafting) and depict them in their actual locations relative to each other. I later used all of this information that I downloaded from the Trimble GPS unit and digital camera and imported into AutoCAD to develop the Photo-Renderings.
- In preparing the Photo-Renderings, I followed the same procedures that I typically follow. First, I used AutoCAD to build a 3D model of the proposed tower structure (in accordance with ProTerra Design's Review Drawings for the proposed Facility dated 3/06/2014), the existing light pole and balloon, placing these "objects" in their actual locations relative to one another based on the high-precision GPS information that we had collected in each location.
- I then added to my 3D model the "Virtual Cameras" matching each of the 10 different photograph locations in horizontal position, elevation and millimeter lens (which information I derived directly from the digital picture xif information file). AutoCAD's CAMERA function allows the user to set a Camera Location and a Target Location, and create and save a 3D camera view of the objects in his or her model.

- Next, I imported the 3D model/camera file into AutoDesk 3DS Max, a widely used 3D design visualization software that I use to prepare photographic renderings. With AutoDesk 3DS Max, files import as “real size,” from AutoCAD so scaling or converting units is not necessary, and I am able to “see” through my virtual camera.
- For each of the 10 different photographic locations, I confirmed my virtual camera lens mm to be sure I didn’t enter it incorrectly when setting it up in AutoCAD. I then applied the photograph for the particular location to the background of the viewport (behind the 3D Model). Next, I set my virtual camera’s “Target Location” so that the balloon and tether line (or existing light pole) in my 3D model matched up to the balloon and tether line (or light pole) in the photograph. Moving the target around slightly and laying the balloon and tether line in the proportionally comparable, accurate 3D model over the balloon and tether line in the true photograph background necessarily resulted in the placement of the modeled 3D tower structure in the appropriate location in the photograph. Finally, I “mapped” color and surface quality (e.g., Paint Colors) onto the 3D objects (which otherwise would remain as they were presented in the 3D model, like black-and-white illustrations). The resulting photograph depicts the modeled 3D tower structure – accurate as to location, size and potential visibility – superimposed on the actual photograph.

4. Summary of the Photographic Renderings

The photographic representations that Caron & Associates Design created accurately depict the height and location of the proposed structure based on the balloon test we conducted and the plans and survey information we were provided.



ProTerra
DESIGN GROUP, LLC



Prepared For:

AT&T

Site Name:

Longbrook Park ~ CT-1848S

Site Address:

Glendale Road

Stratford, CT 06614

Prepared By:

Caron & Associates Design

Benjamin E. Caron

301 Concord Street

Haverhill, MA 01830

(978) 360-3671

ben@cadsim.com



General Information:

Balloon Test for these renderings was completed Tuesday 3/18/2014

Bottom of Red 7" diameter balloon = 95' AGL

Top of proposed monopole shown = 95' AGL per drawings provided

Photographs 8 & 10 were taken only when the inclination was reported as near vertical by an associate on site throughout the test.

Weather conditions were clear skies and slight winds. For all other photo locations the existing light pole was used as the reference in the 3D model to place the proposed pole in the correct location.

For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.

Based upon Review Dwgs by ProTerra dated: 3/6/14

**Longbrook Park ~ (4/11/14)
Photographic Renderings**

Created By: Benjamin E. Caron
CA Caron & Associates Design
(978) 360-3671 info@cadsim.com

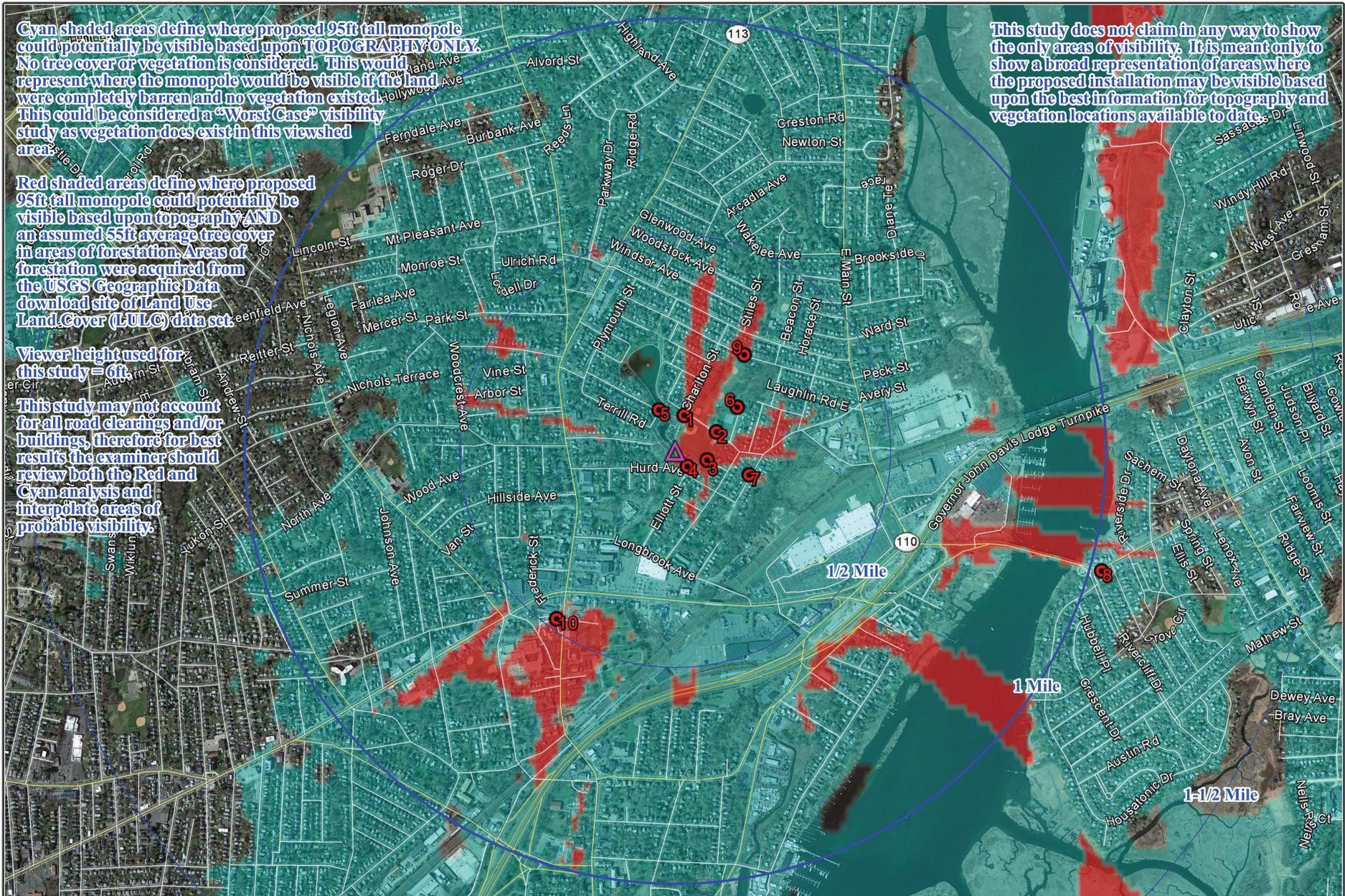
Cyan shaded areas define where proposed 95ft tall monopole could potentially be visible based upon **TOPOGRAPHY ONLY**. No tree cover or vegetation is considered. This would represent where the monopole would be visible if the land were completely barren and no vegetation existed. This could be considered a "Worst Case" visibility study as vegetation does exist in this viewed area.

Red shaded areas define where proposed 95ft tall monopole could potentially be visible based upon topography **AND** an assumed 55ft average tree cover in areas of forestation. Areas of forestation were acquired from the USGS Geographic Data download site of Land Use Land Cover (LULC) data set.

Viewer height used for this study = 6ft.

This study may not account for all road clearings and/or buildings, therefore for best results the examiner should review both the Red and Cyan analysis and interpolate areas of probable visibility.

This study does not claim in any way to show the only areas of visibility. It is meant only to show a broad representation of areas where the proposed installation may be visible based upon the best information for topography and vegetation locations available to date.



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.

Based upon Review Dwg's by ProTerra dated: 3/6/14

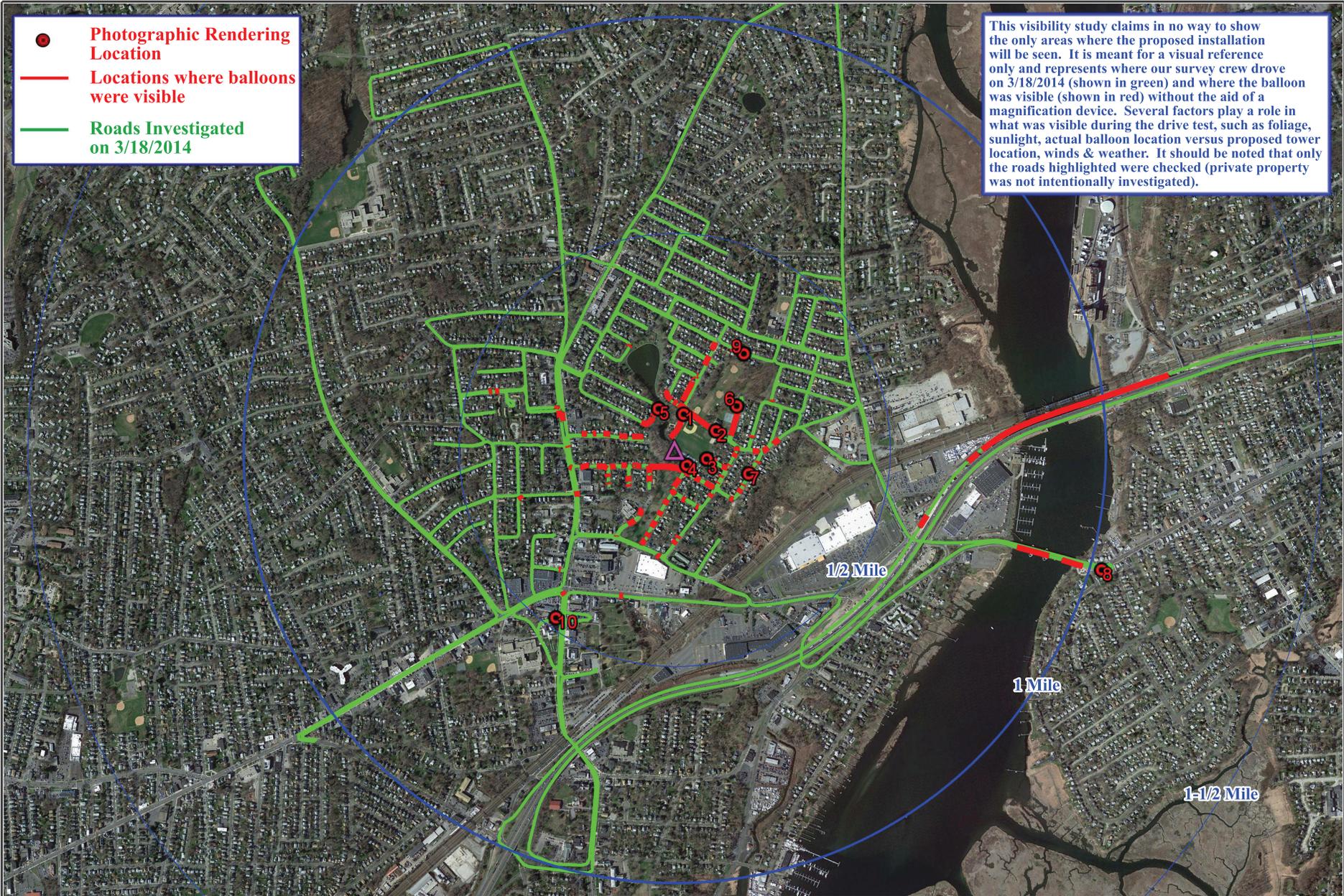
Longbrook Park ~ (4/11/14)

Predictive Viewshed Mapping based upon terrain with and without tree cover
1 Mile Radius

Created By: Benjamin E. Caron
CA Caron & Associates Design
(978) 360-3671 info@cadsim.com

- **Photographic Rendering Location**
- **Locations where balloons were visible**
- **Roads Investigated on 3/18/2014**

This visibility study claims in no way to show the only areas where the proposed installation will be seen. It is meant for a visual reference only and represents where our survey crew drove on 3/18/2014 (shown in green) and where the balloon was visible (shown in red) without the aid of a magnification device. Several factors play a role in what was visible during the drive test, such as foliage, sunlight, actual balloon location versus proposed tower location, winds & weather. It should be noted that only the roads highlighted were checked (private property was not intentionally investigated).



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwg's by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Driven/Verified Visibility Map
1 Mile Radius

Created By: Benjamin E. Caron
Caron & Associates Design
(978) 360-3671 info@cadsim.com

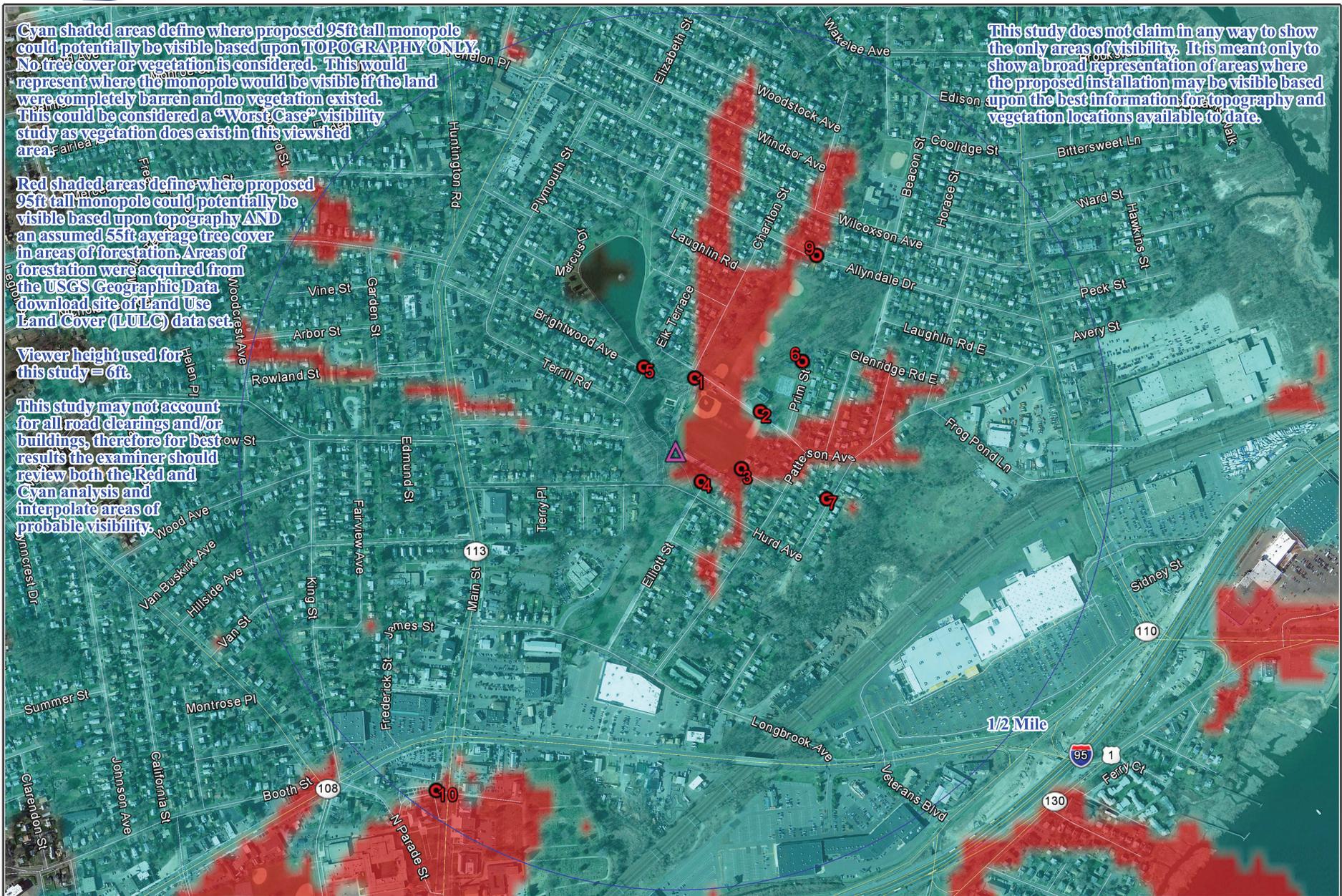
Cyan shaded areas define where proposed 95ft tall monopole could potentially be visible based upon TOPOGRAPHY ONLY. No tree cover or vegetation is considered. This would represent where the monopole would be visible if the land were completely barren and no vegetation existed. This could be considered a "Worst Case" visibility study as vegetation does exist in this viewed area.

Red shaded areas define where proposed 95ft tall monopole could potentially be visible based upon topography AND an assumed 55ft average tree cover in areas of forestation. Areas of forestation were acquired from the USGS Geographic Data download site of Land Use Land Cover (LULC) data set.

Viewer height used for this study = 6ft.

This study may not account for all road clearings and/or buildings, therefore for best results the examiner should review both the Red and Cyan analysis and interpolate areas of probable visibility.

This study does not claim in any way to show the only areas of visibility. It is meant only to show a broad representation of areas where the proposed installation may be visible based upon the best information for topography and vegetation locations available to date.



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Based upon Review Dwg's by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)

Predictive Viewshed Mapping based upon terrain with and without tree cover
Half Mile Radius

Created By: Benjamin E. Caron
Caron & Associates Design
(978) 360-3671 info@cadsim.com

- **Photographic Rendering Location**
- **Locations where balloons were visible**
- **Roads Investigated on 3/18/2014**

This visibility study claims in no way to show the only areas where the proposed installation will be seen. It is meant for a visual reference only and represents where our survey crew drove on 3/18/2014 (shown in green) and where the balloon was visible (shown in red) without the aid of a magnification device. Several factors play a role in what was visible during the drive test, such as foliage, sunlight, actual balloon location versus proposed tower location, winds & weather. It should be noted that only the roads highlighted were checked (private property was not intentionally investigated).



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Driven/Verified Visibility Map
Half Mile Radius

Created By: Benjamin E. Caron
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For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwg's by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 1 ~ 50mm ~ 462'+/- (0.09mi) Away
From near Longbrook Park Entrance on Glendale Road

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 1 ~ 50mm ~ 462'+/- (0.09mi) Away
From near Longbrook Park Entrance on Glendale Road

Created By: Benjamin E. Caron
Caron & Associates Design
(978) 360-3671 info@cadsim.com



ProTerra
DESIGN GROUP, LLC

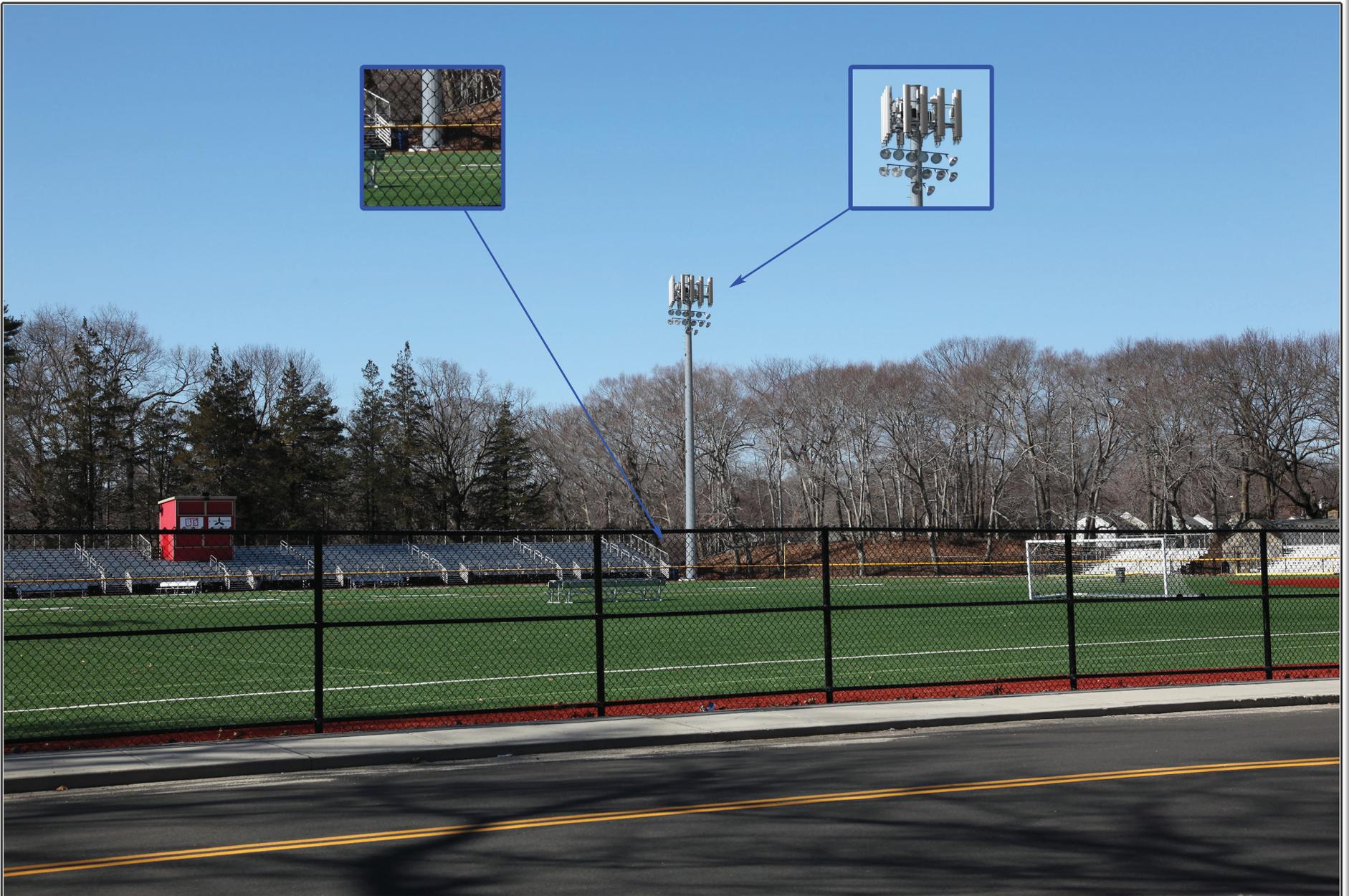
Existing
Conditions



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 2 ~ 50mm ~ 567' +/- (0.11mi) Away
From in Front of Raymond P. Pulaski Memorial Field House

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwg's by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 2 ~ 50mm ~ 567'+/- (0.11mi) Away
From in Front of Raymond P. Pulaski Memorial Field House

Created By: Benjamin E. Caron
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(978) 360-3671 info@cadsim.com



ProTerra
DESIGN GROUP, LLC

Existing
Conditions



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 3 ~ 50mm ~ 409'+/- (0.08mi) Away
From near End of Oakwood Street

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 3 ~ 50mm ~ 409'+/- (0.08mi) Away
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For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.

Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 4 ~ 50mm ~ 234' +/- (0.04mi) Away
From near end of Elliot Street

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 4 ~ 50mm ~ 234' +/- (0.04mi) Away
From near end of Elliot Street

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



ProTerra
DESIGN GROUP, LLC

**Existing
Conditions**



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 5 ~ 50mm ~ 549'+/- (0.10mi) Away
From Inwood Road

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 5 ~ 50mm ~ 549' +/- (0.10mi) Away
From Inwood Road

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



ProTerra
DESIGN GROUP, LLC

**Existing
Conditions**



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 6 ~ 65mm ~ 940'+/- (0.18mi) Away
From near 90 Prim Street

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
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For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 7 ~ 65mm ~ 954'+/- (0.18mi) Away
From Clinton Avenue

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 7 ~ 65mm ~ 954'+/- (0.18mi) Away
From Clinton Avenue

Created By: Benjamin E. Caron
CD Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 8 ~ 105mm ~ 5430²+/- (1.03mi) Away
From near Shell Station by Stratford Town Line

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 8 ~ 105mm ~ 5430²+/- (1.03mi) Away
From near Shell Station by Stratford Town Line

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



ProTerra
DESIGN GROUP, LLC

**Existing
Conditions**



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 9 ~ 65mm ~ 1459' +/- (0.28mi) Away
From near 293 Allyndale Drive

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



ProTerra
DESIGN GROUP, LLC

Proposed
Conditions



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 9 ~ 65mm ~ 1459' +/- (0.28mi) Away
From near 293 Allyndale Drive

Created By: Benjamin E. Caron
 Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 10 ~ 85mm ~ 2498²+/- (0.47mi) Away
From near Stratford Town Hall

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Photo Location 10 ~ 85mm ~ 2498²+/- (0.47mi) Away
From near Stratford Town Hall

Created By: Benjamin E. Caron
CAD Caron & Associates Design
(978) 360-3671 info@cadsim.com



For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.
Based upon Review Dwgs by ProTerra dated: 3/6/14

Longbrook Park ~ (4/11/14)
Balloon Used for Test Completed on 3/18/2014

Created By: Benjamin E. Caron
CA&D Caron & Associates Design
(978) 360-3671 info@cadsim.com

ATTACHMENT G

NORTHEAST SURVEY CONSULTANTS PC

116 PLEASANT STREET, SUITE 302, PO BOX 109, EASTHAMPTON, MA 01027 (413) 203-5144

1-A CERTIFICATION

Client: AT&T Mobility SAI Communications
d/b/a/ New Cingular Wireless PCS, LLC 27 Northwestern Drive
500 Enterprise Drive Salem, NH, 03079
Rocky Hill, CT

Site Number: CT -1848S
Site Name: Longbrook Park
Site Address: Glendale, Stratford, CT

Type of Survey: GPS Survey Ground Survey

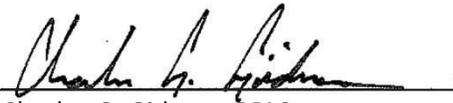
Horizontal Datum: NAD83 - expressed in degrees of Latitude and Longitude
Vertical Datum: NAVD88 - expressed in feet Above Mean Sea Level (AMSL)

Structure Type: Self-Support Tower Monopole Tower Guyed Tower
 Wood Pole Water Tank Smoke Stack
 Roof Top Church Steeple Temporary Site
 Silo Other:

Center of Structure: Latitude 41° 12' 13.50" N
Longitude 73° 07' 36.55" W

Ground Elevation at Proposed Structure: 24' (AMSL) 0' (AGL)
Top of Proposed AT&T Antennas: 118' (AMSL) 94' (AGL)
Top of Proposed Structure: 119' (AMSL) 95' (AGL)
Highest Appurtenance (optional 5' air terminal): 124' (AMSL) 100' (AGL)

Certification: I certify that the latitude and the longitude are accurate to within +/- 20 feet horizontally, and that the ground elevation is accurate to within +/- 3 feet vertically. The horizontal coordinates are based upon the North American Datum of 1983 (NAD 83) and are expressed in degrees of Latitude and Longitude. The elevations are based on the North American Vertical Datum of 1988 and are expressed in feet Above Mean Sea Level (AMSL).

Signature: 
Charles G. Gidman, RPLS

Date: March 13, 2014



TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results							
PASS SLOPE(100:1)NO FAA REQ - 4215.0 Meters (13828.5 Feet)away & below slope by 7.0 Meters (22.9699 Feet)							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	41-09-58.00N	073-07-12.00W	IGOR I SIKORSKY MEMORIAL	FAIRFIELD BRIDGEPORT, CT	1.7	1451.2
PASS SLOPE(100:1)NO FAA REQ - 4235.0 Meters (13894.1 Feet)away & below slope by 8.0 Meters (26.25 Feet)							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	41-09-58.00N	073-08-6.00W	IGOR I SIKORSKY MEMORIAL	FAIRFIELD BRIDGEPORT, CT	1.7	1451.2
Your Specifications							
NAD83 Coordinates							
Latitude					41-12-13.5 north		
Longitude					073-07-35.6 west		
Measurements (Meters)							
Overall Structure Height (AGL)					29		
Support Structure Height (AGL)					29		
Site Elevation (AMSL)					7.3		
Structure Type							
MTOWER - Monopole							

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.



**Federal Aviation
Administration**

Users may experience intermittent connectivity issues, pages may not load and form data may not save due to widespread network problems. The FAA is working to resolve the issue. Please revisit this banner for status updates.

« OE/AAA

Notice Criteria Tool

[Notice Criteria Tool - Desk Reference Guide V_2014.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

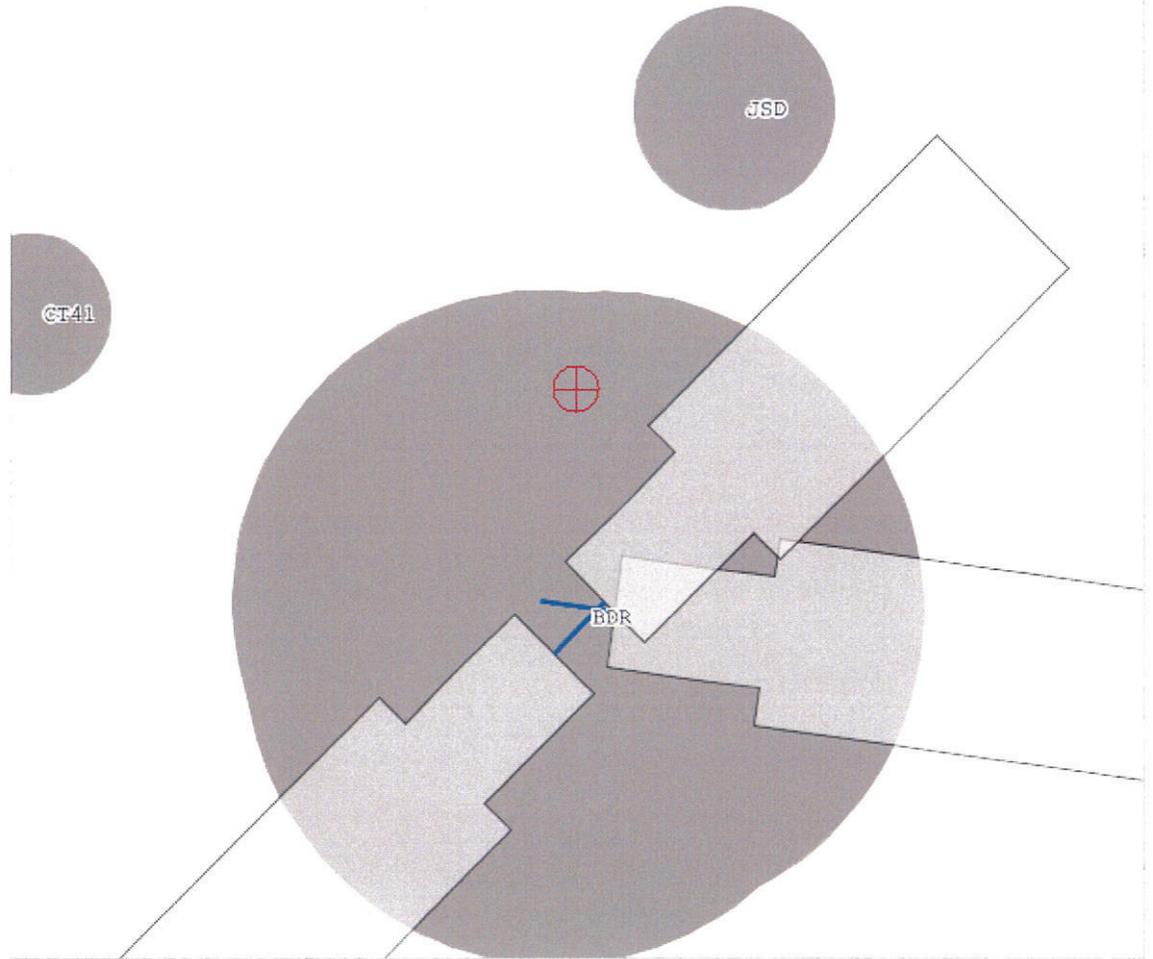
Latitude:	<input type="text" value="41"/> Deg	<input type="text" value="12"/> M	<input type="text" value="13.5"/> S	<input type="text" value="N"/> ▼
Longitude:	<input type="text" value="73"/> Deg	<input type="text" value="7"/> M	<input type="text" value="36.55"/> S	<input type="text" value="W"/> ▼
Horizontal Datum:	<input type="text" value="NAD83"/> ▼			
Site Elevation (SE):	<input type="text" value="24"/> (nearest foot)			
Structure Height (AGL):	<input type="text" value="95"/> (nearest foot)			
Traverseway:	<input type="text" value="No Traverseway"/> ▼ (Additional height is added to certain structures under 77.9(c))			
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes			

Results

You exceed the following Notice Criteria:

Your proposed structure is in proximity to a navigation facility and may impact the assurance of navigation signal reception. The FAA, in accordance with 77.9, requests that you file.

The FAA requests that you file



ATTACHMENT H

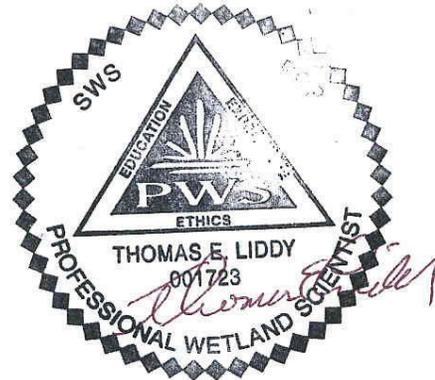
MEMORANDUM

Date: March 20, 2014

To: ProTerra Design Group, LLC
1 Short Street, Suite 3
Northampton, MA 01060

From: Lucas Environmental, LLC
Thomas E. Liddy, PWS
Registered Professional Soil Scientist

Re: Wetland Site Investigation
Site Name: Longbrook Park
Site: CT-1848S
Address: Glendale Road, Stratford, CT 06614



A Registered Professional Soil Scientist from Lucas Environmental, LLC conducted a site investigation on a parcel of land identified as Parcel 50.11-3-3, located on Longbrook Park in Stratford, Connecticut on March 12, 2014, to determine if wetland resources or watercourses were present near the location of the proposed telecommunications facility. The purpose of this inspection was to evaluate the proposed site in regard to the presence of wetlands and watercourses, as defined by the Connecticut Inland Wetlands and Watercourses Act of 1972, the Federal Clean Water Act (Section 404), the Town of Stratford Inland Wetlands and Water Courses Regulations (Amended January 19, 2012), and the Wetland Commissioners Handbook of 1994. Following is a description of the project site, delineation procedures and wetlands and watercourses present.

Existing Conditions

The proposed project area is located within a small portion of Long Brook Park, adjacent to the Stratford High football field. The proposed facility will consist of a proposed 95-foot tall monopole and associated equipment, according to the Permitting Site Plans prepared by ProTerra Design Group, LLC, dated March 6, 2014. Associated telecommunications equipment will be located outside at the base of the structure within a 36-foot by 23-foot equipment area surrounded by an eight-foot tall stockade fence and existing chain link fence. The proposed access drive to the telecommunications facility will extend from an existing parking lot to a proposed six-foot wide concrete driveway. The project area is surrounded by a football playing field and wooded parks to the north, east and west, and residences to the south.

Environmental Resource Areas

The investigation of wetlands on this site was based on the presence or absence of poorly and very poorly drained, alluvial and floodplain soils as defined by the National Cooperative Soil Survey of the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture (USDA).

During the course of the evaluation, reference was made to the NRCS Custom Soil Resource Report (attached), the 1987 “Corps of Engineers Wetlands Delineation Manual” (Department of the Army, Technical Report Y-87-1), the Northeast and Northcentral Regional Supplement v. 2.0 (2012), and the 2010 “Field Indicators of Hydric Soils in the United States” (Ver. 7.0). Soil types are identified by observing soil morphology (soil texture, color, structure, etc.).

Long Brook

Long Brook is a perennial watercourse located approximately 50 to 60 feet to the west of the proposed telecommunications facility. The extent of the watercourse is limited to the confines of stone walls and was not flagged in the field. There are no vegetated wetlands or areas of alluvial soils associated with this watercourse.

Soil Map Types

A description of each soil map unit identified near the proposed work areas on the project site is presented in the attached NRCS Custom Soil Resource Report. The soils in the vicinity of the work area are generally consistent with the published data, consisting of well drained soils in the upland areas. The soil information for the site includes the following soil map units:

- 308 – Udorthents, smoothed – moderately well drained
- 38E – Hinckley gravelly sandy loam, 15 to 45 percent slopes – excessively drained

For further information on these and other soils, please refer to the internet site <http://soils.usda.gov/technical/classification/osd/index.html>).

Special Resources

A review of the Natural Diversity Data Base (NDDDB) Areas for Stratford, CT indicates that there are no areas of State and Federal Listed Species & Significant Natural Communities within one half mile of the project site.

According to the July 8, 2013 FEMA Flood Insurance Rate Map for Fairfield County, Connecticut, Map Number 09001C0434G, the proposed work area is located within Zone X, which is defined as an area determined to be outside the 0.2% annual chance flood. There is a Zone AE associated with Long Brook, however it does not extend onto the proposed telecommunications facility and no work is proposed within the floodplain. Zone AE is an area subject to the 1% annual chance flood (100-year flood), where base flood elevations have been determined.

Regulations

Wetlands and watercourses are regulated by both state and federal law each with different definitions and regulatory requirements. Accordingly, the state may regulate waters that fall outside of federal jurisdiction; however, where federal jurisdiction exists concurrent state jurisdiction is almost always present.

Wetland determinations are based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land. Watercourses are defined as “*rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof.*” Intermittent watercourse determinations are made based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus, (2) the presence of standing or flowing water for a duration longer than a particular storm incident, and (3) the presence of hydrophytic vegetation. (See Inland Wetlands and Watercourses Act §22a-38 CGS.)

The Town of Stratford has local regulations consisting of the Inland Wetlands and Water Courses Regulations governed by the Inland Wetlands & Water Courses Commission (IWWC). The Inland Wetland and Water Courses Regulations govern activities that take place within 100 feet of a wetland or watercourse. There are larger regulated areas for specific ponds and rivers in Stratford but those are not applicable to this site.

Based upon review of the Site Plans, work will occur within 100 feet of the watercourse on and near the site. The proposed project may be regulated by the Connecticut Siting Council for the construction of a new telecommunications facility. Such facilities are defined in Connecticut General Statutes § 16-50i (a) (5) and (6) and Section 16-50j-2a of the Regulations of Connecticut State Agencies. The Connecticut Siting Council conducts reviews for local jurisdiction of telecommunications facilities.

Summary

It is our opinion that the areas described above and field investigated are a complete and accurate representation of the site conditions in the project area (see above). Based upon the nature of the work and existing disturbance in the area, impacts to the brook are not anticipated as a result of the project. This opinion is based upon observations made of existing conditions on the dates noted above. Any proposed activities will likely be located within buffer zone to regulated wetlands. The reader should be aware that regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. Please do not hesitate to contact me if you have any questions concerning this or other matters.

Enclosure: NRCS Custom Soil Resource Report



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for State of Connecticut



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

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individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

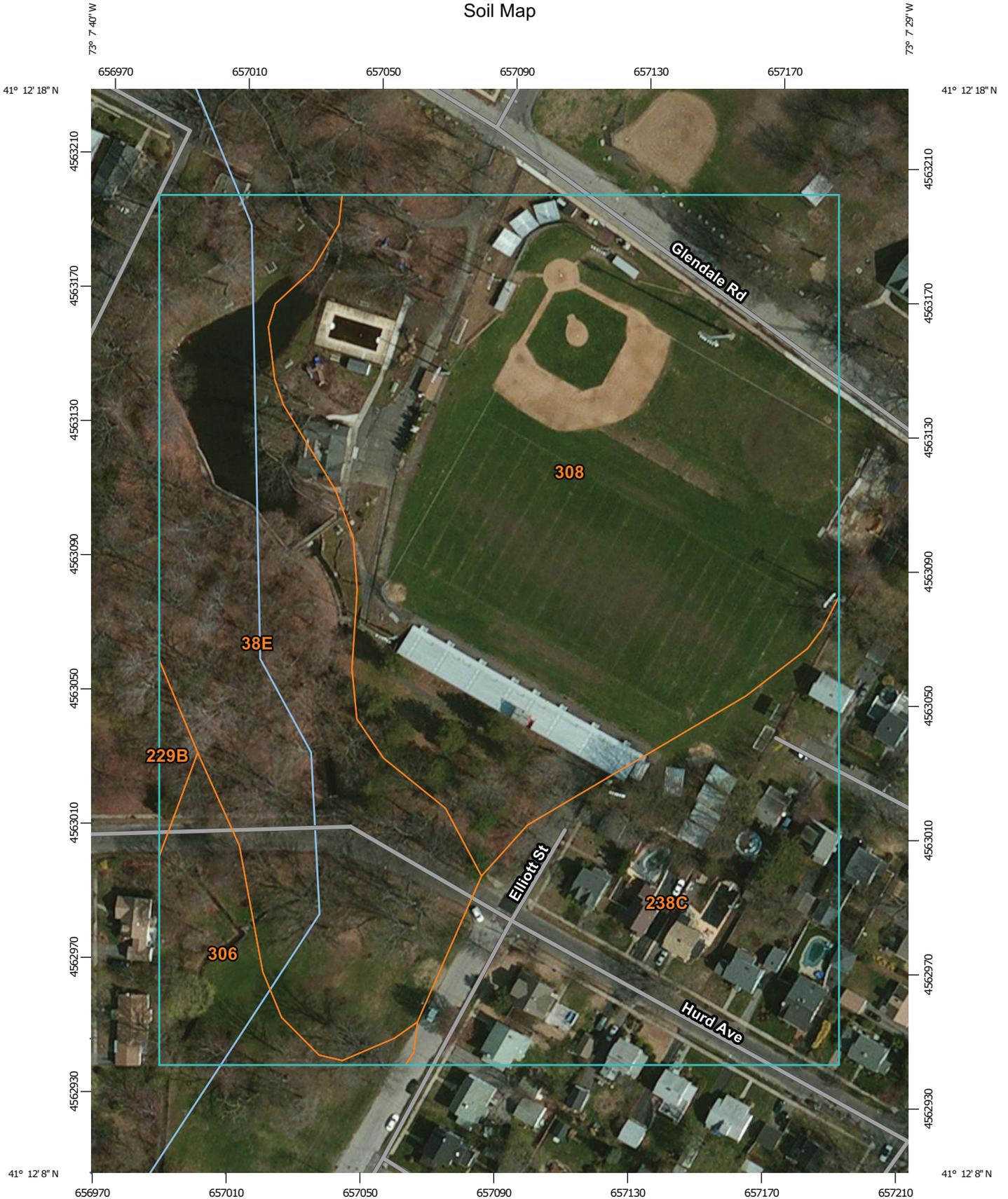
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:1,570 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
 Survey Area Data: Version 11, Nov 19, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 28, 2011—Oct 9, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
38E	Hinckley gravelly sandy loam, 15 to 45 percent slopes	3.3	25.1%
229B	Agawam-Urban land complex, 0 to 8 percent slopes	0.1	0.6%
238C	Hinckley-Urban land complex, 3 to 15 percent slopes	2.7	20.6%
306	Udorthents-Urban land complex	0.6	4.9%
308	Udorthents, smoothed	6.4	48.8%
Totals for Area of Interest		13.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

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The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

State of Connecticut

38E—Hinckley gravelly sandy loam, 15 to 45 percent slopes

Map Unit Setting

Elevation: 0 to 1,200 feet

Mean annual precipitation: 43 to 56 inches

Mean annual air temperature: 45 to 55 degrees F

Frost-free period: 140 to 185 days

Map Unit Composition

Hinckley and similar soils: 80 percent

Minor components: 20 percent

Description of Hinckley

Setting

Landform: Eskers, terraces, kames, outwash plains

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Sandy and gravelly glaciofluvial deposits derived from granite and/or schist and/or gneiss

Properties and qualities

Slope: 15 to 45 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Very low (about 2.3 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6e

Hydrologic Soil Group: A

Typical profile

0 to 8 inches: Gravelly sandy loam

8 to 20 inches: Very gravelly loamy sand

20 to 27 inches: Very gravelly sand

27 to 42 inches: Stratified cobbly coarse sand to extremely gravelly sand

42 to 60 inches: Stratified cobbly coarse sand to extremely gravelly sand

Minor Components

Merrimac

Percent of map unit: 5 percent

Landform: Kames, outwash plains, terraces

Down-slope shape: Linear

Across-slope shape: Linear

Windsor

Percent of map unit: 5 percent

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Landform: Kames, outwash plains, terraces
Down-slope shape: Convex
Across-slope shape: Convex

Agawam

Percent of map unit: 3 percent
Landform: Outwash plains, terraces
Down-slope shape: Linear
Across-slope shape: Linear

Sudbury

Percent of map unit: 2 percent
Landform: Outwash plains, terraces
Down-slope shape: Concave
Across-slope shape: Linear

Unnamed, red parent material

Percent of map unit: 1 percent

Unnamed, gravelly silt loam solum

Percent of map unit: 1 percent

Walpole

Percent of map unit: 1 percent
Landform: Depressions on terraces, drainageways on terraces
Down-slope shape: Concave
Across-slope shape: Concave

Scarboro

Percent of map unit: 1 percent
Landform: Drainageways, depressions, terraces
Down-slope shape: Concave
Across-slope shape: Concave

Rock outcrop

Percent of map unit: 1 percent

229B—Agawam-Urban land complex, 0 to 8 percent slopes

Map Unit Setting

Elevation: 0 to 1,200 feet
Mean annual precipitation: 43 to 56 inches
Mean annual air temperature: 45 to 55 degrees F
Frost-free period: 140 to 185 days

Map Unit Composition

Agawam and similar soils: 40 percent
Urban land: 35 percent
Minor components: 25 percent

Description of Agawam

Setting

Landform: Outwash plains, terraces

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Coarse-loamy eolian deposits over sandy and gravelly glaciofluvial deposits derived from granite and/or schist and/or gneiss

Properties and qualities

Slope: 0 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 2e

Hydrologic Soil Group: B

Typical profile

0 to 8 inches: Fine sandy loam

8 to 14 inches: Fine sandy loam

14 to 24 inches: Fine sandy loam

24 to 60 inches: Stratified very gravelly coarse sand to fine sand

Description of Urban Land

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8

Typical profile

0 to 6 inches: Material

Minor Components

Merrimac

Percent of map unit: 5 percent

Landform: Kames, outwash plains, terraces

Down-slope shape: Linear

Across-slope shape: Linear

Walpole

Percent of map unit: 5 percent

Landform: Depressions on terraces, drainageways on terraces

Down-slope shape: Concave

Across-slope shape: Concave

Hinckley

Percent of map unit: 5 percent

Landform: Eskers, terraces, kames, outwash plains

Down-slope shape: Convex

Across-slope shape: Convex

Udorthents

Percent of map unit: 5 percent
Down-slope shape: Convex
Across-slope shape: Linear

Scarboro

Percent of map unit: 3 percent
Landform: Drainageways, depressions, terraces
Down-slope shape: Concave
Across-slope shape: Concave

Unnamed, red parent material

Percent of map unit: 2 percent

238C—Hinckley-Urban land complex, 3 to 15 percent slopes

Map Unit Setting

Elevation: 0 to 1,200 feet
Mean annual precipitation: 43 to 56 inches
Mean annual air temperature: 45 to 55 degrees F
Frost-free period: 140 to 185 days

Map Unit Composition

Hinckley and similar soils: 40 percent
Urban land: 35 percent
Minor components: 25 percent

Description of Hinckley

Setting

Landform: Eskers, terraces, kames, outwash plains
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy and gravelly glaciofluvial deposits derived from granite and/or schist and/or gneiss

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.3 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e

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Hydrologic Soil Group: A

Typical profile

0 to 8 inches: Gravelly sandy loam

8 to 20 inches: Very gravelly loamy sand

20 to 27 inches: Very gravelly sand

27 to 42 inches: Stratified cobbly coarse sand to extremely gravelly sand

42 to 60 inches: Stratified cobbly coarse sand to extremely gravelly sand

Description of Urban Land

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8

Typical profile

0 to 6 inches: Material

Minor Components

Udorthents

Percent of map unit: 5 percent

Down-slope shape: Convex

Across-slope shape: Linear

Windsor

Percent of map unit: 5 percent

Landform: Kames, outwash plains, terraces

Down-slope shape: Convex

Across-slope shape: Convex

Sudbury

Percent of map unit: 5 percent

Landform: Terraces, outwash plains

Down-slope shape: Concave

Across-slope shape: Linear

Walpole

Percent of map unit: 3 percent

Landform: Drainageways on terraces, depressions on terraces

Down-slope shape: Concave

Across-slope shape: Concave

Merrimac

Percent of map unit: 3 percent

Landform: Kames, outwash plains, terraces

Down-slope shape: Linear

Across-slope shape: Linear

Scarboro

Percent of map unit: 2 percent

Landform: Depressions, terraces, drainageways

Down-slope shape: Concave

Across-slope shape: Concave

Agawam

Percent of map unit: 2 percent

Landform: Terraces, outwash plains

Down-slope shape: Linear

Across-slope shape: Linear

306—Udorthents-Urban land complex

Map Unit Setting

Elevation: 0 to 2,000 feet

Mean annual precipitation: 43 to 56 inches

Mean annual air temperature: 45 to 55 degrees F

Frost-free period: 120 to 185 days

Map Unit Composition

Udorthents and similar soils: 50 percent

Urban land: 35 percent

Minor components: 15 percent

Description of Udorthents

Setting

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Drift

Properties and qualities

Slope: 0 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 1.98 in/hr)

Depth to water table: About 54 to 72 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 3e

Hydrologic Soil Group: B

Typical profile

0 to 5 inches: Loam

5 to 21 inches: Gravelly loam

21 to 80 inches: Very gravelly sandy loam

Description of Urban Land

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8

Typical profile

0 to 6 inches: Material

Minor Components

Unnamed, undisturbed soils

Percent of map unit: 8 percent

Udorthents, wet substratum

Percent of map unit: 5 percent

Down-slope shape: Convex

Across-slope shape: Linear

Rock outcrop

Percent of map unit: 2 percent

308—Udorthents, smoothed

Map Unit Setting

Elevation: 0 to 2,000 feet

Mean annual precipitation: 43 to 56 inches

Mean annual air temperature: 45 to 55 degrees F

Frost-free period: 120 to 185 days

Map Unit Composition

Udorthents and similar soils: 80 percent

Minor components: 20 percent

Description of Udorthents

Setting

Down-slope shape: Convex

Across-slope shape: Linear

Properties and qualities

Slope: 0 to 35 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 1.98 in/hr)

Depth to water table: About 24 to 54 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 4e

Hydrologic Soil Group: B

Typical profile

0 to 5 inches: Loam

5 to 21 inches: Gravelly loam

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21 to 80 inches: Very gravelly sandy loam

Minor Components

Unnamed, undisturbed soils

Percent of map unit: 7 percent

Udorthents, wet substratum

Percent of map unit: 7 percent

Urban land

Percent of map unit: 5 percent

Rock outcrop

Percent of map unit: 1 percent

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ATTACHMENT I

HMB

HMB Acoustics LLC

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Noise Evaluation Report

Proposed Cingular Wireless Communications Facility
Longbrook Park
Glendale Road
Stratford, CT.

December 5, 2014

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Avon, CT.

Introduction

Cingular Wireless (dba AT&T Mobility) has proposed a wireless communications facility to be located at Longbrook Park - Glendale Road - Stratford, CT. The proposed site will include an equipment shelter. The shelter maintains 2 wall mounted air-conditioning units to cool the radio equipment; and a back-up emergency generator which runs only when commercial power to the site is interrupted. The facility will be surrounded by an 8 foot high stockade fence.

The abutting residential properties nearest to the equipment shelter are located along Glendale Road to the North; Hurd Avenue to the South; Oakwood Street and Elliot Street to the East; and Beers Place to the West.

On December 2, 2014, existing background noise measurements were taken at various residential locations. These levels ranged between 38 dBA and 42 dBA. They did not affect the noise levels that were projected from the equipment shelter's generator and air-conditioners.

The purpose of the evaluation is to determine whether the generator and air-conditioners will comply with the State of CT Noise Regulations.

It is important to note that the back-up generator operates approximately 15-20 minutes each week for testing. All testing is done during daytime hours. Other than these testing periods, the generator runs only in times of emergency, when commercial power to the facility is interrupted.. Typically, only one of the two air-conditioner units operates at any one time. This report and the noise regulations utilize a dBA scale. This scale is used because it closely approximates the response characteristic of the human ear to loudness, and is the scale most commonly used in the measurement of community noise.

Noise Regulations

The State of CT has enacted regulations which limit the amount of noise which may be transferred from one property to another. In pertinent part, the Regulations provide as follows:

Daytime Hours - The hours between 7 a.m. and 10 p.m. local time.

Nighttime Hours - The hours between 10 p.m. and 7 a.m. local time.

(Sec. 22a-69-1.1 (h) and (n)).

Noise Level Standards

“It shall be unlawful for any person to emit or cause to be emitted any noise beyond the property lines of his / her premises in excess of the following noise levels.”

Zone in Which Noise Emitter is Located	Allowable Levels	Allowable Levels
	Daytime Hours (dBA)	Nighttime Hours (dBA)
Residential	55	45

(Sec. 22a-69-3.5 (c)).

Exemptions -

“Noise created as a result of, or relating to, an emergency.”

(Sec. 22a-69-1.8 (f)).

Noise Evaluation Results

The noise levels listed on page 3 take into account background noise conditions; and the effect of acoustical shielding provided by structures on the property. The combined effect of the generator and one air-conditioner operating together complies with the provisions set forth in the noise regulations when projected to the nearest residential

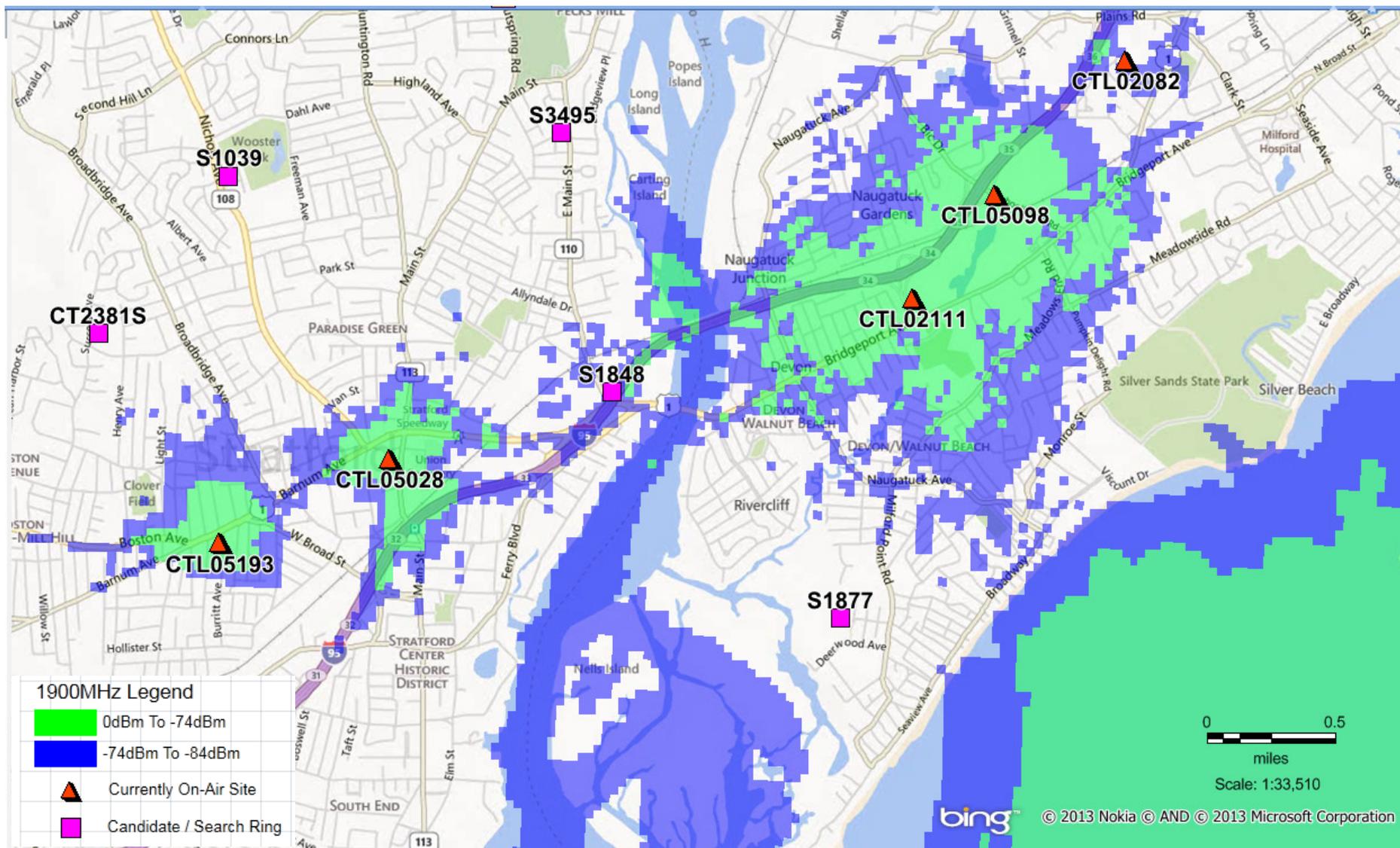
property line.

Property Line	Generator and Air-Conditioner dBA
North (Glendale Road)	33
South (Hurd Avenue)	40
East (Elliot Street)	38
East (Oakwood Street)	34
West (Beers Place)	28

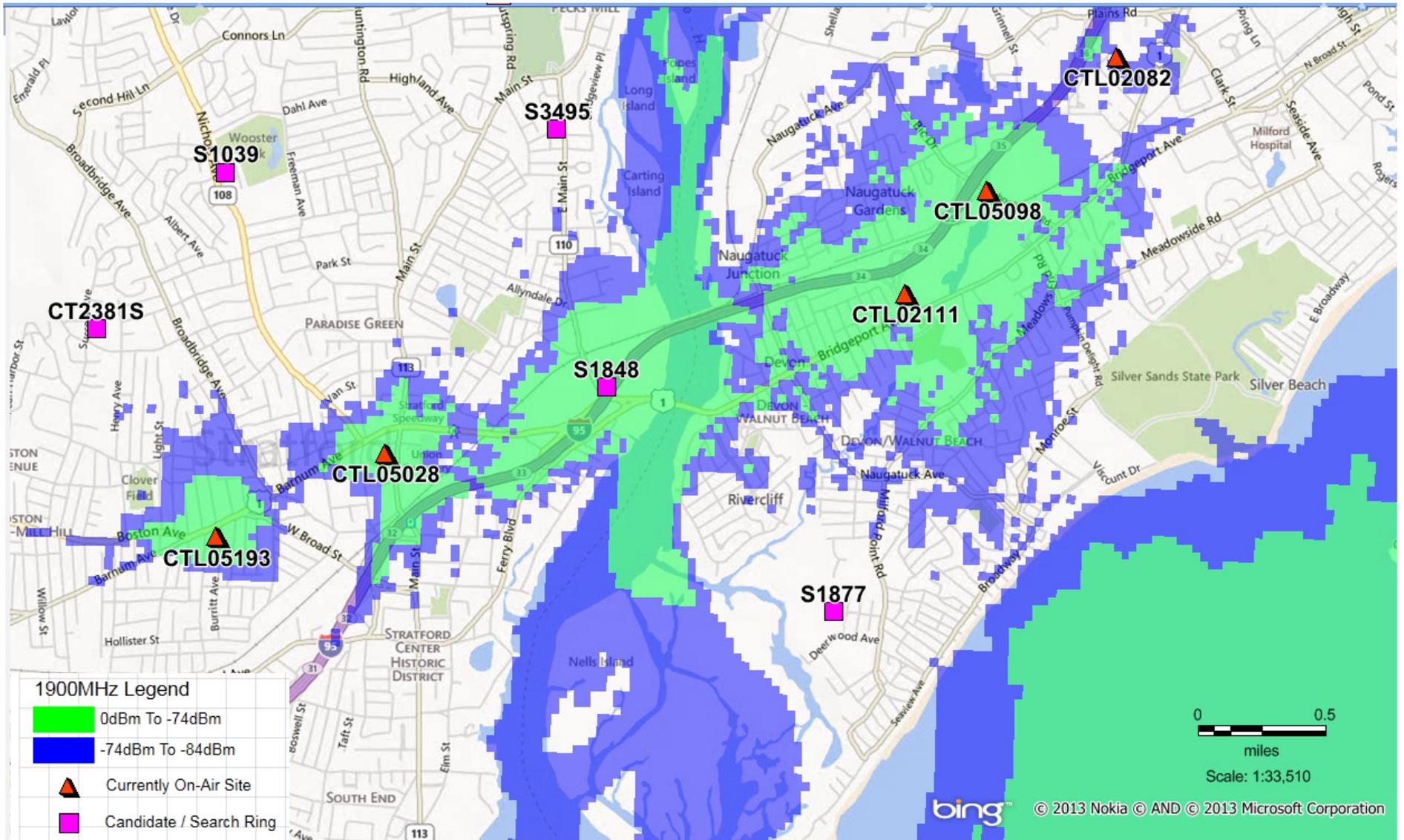
Note: With the generator and two air-conditioners operating simultaneously the dBA level will increase by 3 dBA.

ATTACHMENT J

Existing Coverage, Stratford, CT



Existing And Proposed Coverage, Stratford, CT



ATTACHMENT K

CERTIFICATION OF SERVICE

I hereby certify that on the 6 day of January 2015, notice of the intent to file a petition for declaratory ruling regarding the herein proposed telecommunications Facility in Stratford were sent by certified mail, return receipt requested, to the following:

Dated: 1/6/15


Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, N.Y. 10601
Attorneys for:
New Cingular Wireless PCS LLC ("AT&T")

State and Regional

The Honorable George Jepsen Attorney General Office of the Attorney General 55 Elm Street Hartford, CT 06106	Department of Economic and Community Development Catherine Smith 505 Hudson Street Hartford, CT 06106
Department of Public Health Dr. Jewel Mullen, Commissioner 410 Capitol Avenue PO Box 340308 Hartford, CT 06134	Department of Transportation James P. Redeker, Commissioner 2800 Berlin Turnpike Newington, CT 06111
Council on Environmental Quality Susan D. Merrow, Chair 79 Elm Street Hartford, CT 06106	Department of Agriculture Steven K. Reviczky, Commissioner 165 Capitol Avenue Hartford, CT 06106
Office of Policy and Management Benjamin Barnes, Secretary 450 Capitol Avenue Hartford, CT 06106	State Senator-District 21 Kevin C. Kelly Legislative Office Building Room 3400 Hartford, CT 06106

<p>Department of Energy & Environmental Protection-Public Utilities Regulatory Authority Chairman Arthur House Ten Franklin Square New Britain, CT 06051</p>	<p>Greater Bridgeport Regional Council Bridgeport Transportation Center Brian Bidolli, Executive Director 525 Water Street Bridgeport, CT 06604</p>
<p>Connecticut Department of Emergency Services and Public Protection Division of Emergency Management and Homeland Security Dora B. Schriro, Commissioner 1111 Country Club Road Middletown, CT 06457</p>	<p>Department of Economic and Community Development Offices of Culture and Tourism Daniel T. Forrest, State Historic Preservation Officer One Constitution Plaza, 2nd Floor Hartford, CT 06103</p>
<p>Department of Energy & Environmental Protection Rob Klee, Commissioner 79 Elm Street Hartford, CT 06106</p>	<p>State House Representative-Dist. 120 Laura R. Hoydick House Republican Office Legislative Office Building Room 4200 Hartford, CT 06106</p>

Federal

<p>Federal Communications Commission 445 12th Street SW Washington, D.C. 20554</p>	<p>Federal Aviation Administration 800 Independence Avenue, SW Washington, DC 20591</p>
<p>U.S. Congresswoman Rosa DeLauro Third District of Connecticut 59 Elm Street New Haven, CT 06510</p>	<p>U.S. Senator Richard Blumenthal 90 State House Square, 10th Floor Hartford, CT 06103</p>
<p>U.S. Senator Christopher Murphy One Constitution Plaza, 7th Floor Hartford, CT 06103</p>	

Town of Stratford

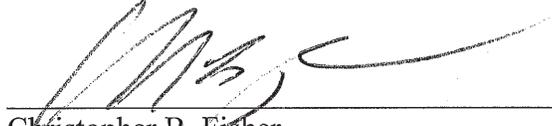
<p>Mayor John A. Harkins Stratford Town Hall 2725 Main Street Stratford, CT 06615</p>	<p>Planning Commission Christopher Silhavey, Chairman Stratford Town Hall 2725 Main Street Stratford, CT 06615</p>
<p>Town Clerk Susan M. Pawluk Stratford Town Hall Room 106 2725 Main Street Stratford, CT 06615</p>	<p>Inland Wetland & Watercourses Commission Ronald Hojdich, Chairman Stratford Town Hall 2725 Main Street Stratford, CT 06615</p>
<p>Planning & Zoning Administrator Gary Lorentson Stratford Town Hall Room 113 & 118 2725 Main Street Stratford, CT 06615</p>	<p>Conservation Commission Gregg Dancho, Chairman Stratford Town Hall 2725 Main Street Stratford, CT 06615</p>
<p>Chief Administrative Officer Stephen J. Nocera Stratford Town Hall 2725 Main Street Stratford, CT 06615</p>	<p>Zoning Commission David Fuller, Chairman Stratford Town Hall 2725 Main Street Stratford, CT 06615</p>

CERTIFICATION OF SERVICE

I hereby certify that on the 1 of January 2015, a copy of the foregoing letter, photo simulation and notice were mailed by certified mail, return receipt requested to each of the abutting properties owners on the accompanying list.

Date

1/6/15



Christopher B. Fisher
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601

Attorneys for:
New Cingular Wireless PCS, LLC ("AT&T")

ADJACENT PROPERTY OWNERS
Longbrook Park, Stratford Connecticut

Sean & Christine R. Heffernan 20 Elk Ter Stratford, CT 06614-4312	William Jacobs 200 Glendale Rd Stratford, CT 06614
Daniel A. & Stacey L. George 5 Charlton St Stratford, CT 06614-4332	James A. Furbush 286 Hurd Ave Stratford, CT 06614-5024
William & Maria C. Muniz 296 Hurd Ave Stratford, CT 06614-5024	Marcel & Jill Bolduc 306 Hurd Ave Stratford, CT 06614-5024
Peter C. Bucki 45 Oakwood St Stratford, CT 06614	Marylou Pelfrey 48 Oakwood St Stratford, CT 06614-5118
Becky Lautenslager 57 Glendale Rd Stratford, CT 06614	Rita H. Jannetty, Trustee 80 Brenair Ter Stratford, CT 06614
Stephen J. Tyliczszak II 19 Elk Ter Stratford, CT 06614	Anne Dierdre McNeil 29 Elk Terr Stratford, CT 06614
Robert J. & Susan M. Nuttall 189 Brightwood Ave Stratford, CT 06614-4111	Town of Stratford 2725 Main Street Stratford, CT 06614
Pamela C. Banks 200 Elliott St Stratford, CT 06614-5003	Edward J. Denes Jr. 510 Allyndale Dr Stratford, CT 06614-4308
Felicia & George Kalapos 502 Allyndale Dr Stratford, CT 06614-4308	Lindsay Bachlechner 10 Bell Ter Stratford, CT 06614
J&D Dinan Living Trust 929 White Plains Rd #240 Trumbull, CT 06611	Ronald & Johanna Brelsford 473 Laughlin Rd-W Stratford, CT 06614-4345
Paul D. Swanson 11 Oak Ter Stratford, CT 06614-4324	Ravindra Bissoondial 1 Oak Ter Stratford, CT 06614
Thomas E. & Sharon M. Caselli 479 Allyndale Dr Stratford, CT 06614-4307	George R. Wright 529 Allyndale Dr Stratford, CT 06614
Ronald J. Ogradowicz 520 Laughlin Rd-W Stratford, CT 06614-4116	Nicholas A. Kleszczewski 39 Elk Ter Stratford, CT 06615
Christopher E. Larizza 59 Elk Ter Stratford, CT 06614-4313	John C. Brereton 449 Glenridge Rd Stratford, CT 06614
Christopher & Allison Perley 178 Hurd Ave Stratford, CT 06614-5022	Steven C. Ippolito 191 Beers Pl Stratford, CT 06615

David C. & Donna M. Mencil 184 Beers Pl Stratford, CT 06614-5029	David M. Russo 165 Terrill Rd Stratford, CT 06614
Lena W. Geibel 184 Terrill Rd Stratford, CT 06614-4130	Joseph & Donna Sylvia 179 Brightwood Ave Stratford, CT 06614-4111
Mark E. & Edward F. Raposa 169 Brightwood Ave Stratford, CT 06614-4111	Thomas J. Gordhamer 159 Brightwood Ave Stratford, CT 06614-4111
Mark J. & Lucy B. Frattaroli 141 Brightwood Ave Stratford, CT 06614-4111	Margaret M. Goetz 100 Brightwood Ave Stratford, CT 06614
Jose R. Pacheco 120 Brightwood Ave Stratford, CT 06614-4110	Van N. Ho & Beth A Rogers 126 Brightwood Ave Stratford, CT 06614-4110
Jeremiah C. & Patricia Shea 134 Brightwood Ave Stratford, CT 06614-4110	Russell & Lynn Lanz 7 Bryant Pl Stratford, CT 06614-5016
Norman & Elvira Kaminski 120 Brewster St Stratford, CT 06614-4108	Carolyn E. Agoglia 539 Laughlin Rd-W Stratford, CT 06614-4117
William A. Paoli 11 Marcus Dr Stratford, CT 06614-4120	Denise L. Sullivan 100 Brewster St Stratford, CT 06614
Thomas J. Nuzzaci 86 Brightwood Ave Stratford, CT 06614-4110	James V. & Janis M. McGuire 75 Landon St Stratford, CT 06614-4115

January 6, 2015

VIA CERTIFIED MAIL

Re: New Cingular Wireless PCS, LLC ("AT&T")
Proposed Telecommunications Tower Facility
Replacement Light Pole – Penders Field
Longbrook Park, Stratford Connecticut

Dear Sir or Madam:

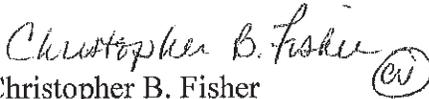
We are writing to you on behalf of our client New Cingular Wireless PCS, LLC ("AT&T") with respect to the above referenced matter and our client's intent to file a petition with the State of Connecticut Siting Council for approval of a proposed wireless communications tower facility (the "Facility") within the Town of Stratford.

State law requires that record owners of property abutting a parcel on which a facility is proposed be sent notice of an applicant's intent to file a petition with the Siting Council. The proposed Facility would be located in Longbrook Park and involves the replacement and 10' expansion in height of a light pole at Penders Field along with ancillary equipment at grade adjacent to the bleachers.

Included with this letter please find a Notice of this petition with details of the proposed Facility. Additionally, as a courtesy, we have enclosed a photographic simulation of what the new replacement light pole with AT&T's antennas would look like. Of note, the location, height and other features of the Facility are subject to review and potential change by the Connecticut Siting Council under the provisions of Connecticut General Statutes §16-50g et seq.

If you have any questions concerning this petition, please contact the Connecticut Siting Council or the undersigned after January 9, 2015, the date which the petition is expected to be on file.

Very truly yours,


Christopher B. Fisher
Enclosure

NOTICE

Notice is hereby given, pursuant to Section 16-50j-40(a) of the Regulations of Connecticut State Agencies of a Petition to be filed with the Connecticut Siting Council ("Siting Council") on or after January 9, 2015 by New Cingular Wireless PCS, LLC ("AT&T" or the "Petitioner"). AT&T will seek a declaratory ruling that no certificate of environmental compatibility and public need is required to replace and expand an existing light stanchion located at a municipal athletic field in the Town of Stratford, Connecticut (the "Site").

Penders Field is a multipurpose facility in Longbrook Park that is owned by the Town of Stratford and used for numerous athletic events. Penders Field and the stadium have several light towers of varying heights surrounding the field for night games and events.

AT&T's proposed facility consists of replacing one 85' light tower with an approximately 95' tall tower and replacing the lights at the same height. AT&T will install twelve (12) panel antennas at a centerline height of 90' above ground level (AGL) on the tower and would extend 10' above the lights. A 12' by 24' equipment shelter with internal emergency diesel powered backup generator will be located in a 24' by 37' lease area behind the bleachers and enclosed by a 8' tall stockade fence. Access to the facility would be over a proposed 20' wide access easement from Hurd Avenue, along Elliot Street, then along behind the bleachers to the facility. Utility connections would be located in a proposed utility easement and run underground from an on-site utility pole #2507 along Elliot Street, then extended behind the bleachers to the facility.

The facility is being proposed to allow AT&T to provide reliable service in this area of the State. The Petition will provide details of the facility and explain why Petitioner submits that the proposed replacement tower presents no significant adverse environmental effects. The location, height and other features of the facility are subject to review and potential change under provisions of the Connecticut General Statutes Sections 16-50g et. seq.

Copies of the Petition will be available for review during normal business hours on or after January 9, 2015 at the Connecticut Siting Council:

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

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