

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
 :
 :
 A PETITION OF CELLCO PARTNERSHIP : PETITION NO. ____
 D/B/A VERIZON WIRELESS FOR A :
 :
 DECLARATORY RULING ON THE NEED TO :
 :
 OBTAIN A SITING COUNCIL CERTIFICATE :
 :
 FOR THE INSTALLATION OF A SMALL :
 :
 CELL TELECOMMUNICATIONS FACILITY :
 :
 ATTACHED TO A BUILDING AT 1 :
 :
 ANNGINA DRIVE, ENFIELD, :
 :
 CONNECTICUT : OCTOBER 28, 2015

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” telecommunications tower, attached to an existing commercial building at 1 Anngina Drive in Enfield, Connecticut (the “Property”). The building and Property are owned by Ascent Real Estate LLC. Cellco has designated this site as its “Enfield SC3 Facility”.

II. Factual Background

The Property is a 0.85-acre parcel at the northwest corner of Moody Road and Anngina Drive in Enfield. The Property is zoned I-1 Industrial and is surrounded by light industrial and

commercial uses to the north, east and west, and by Enrico Fermi High School to the south. *See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph)*. Cellco is licensed to provide wireless telecommunications services in the 700 MHz, 850 MHz, 1900 MHz and 2100 MHz frequency ranges in Enfield and throughout the State of Connecticut. Initially, the proposed Enfield SC3 Facility will provide wireless service in Cellco’s 2100 MHz frequency range only and provide capacity relief to Cellco’s surrounding cell sites.

III. Proposed “Small Cell” Facility

The proposed Enfield SC3 Facility would consist of a small tower, attached to the northerly side of the existing building at the Property. The tower would support a single canister-type small cell antenna and a Remote Radio Head (“RRH”) and would extend approximately 8’.5” above the roof of the building (approximately 22’.2” above ground level). Equipment associated with the Enfield SC3 Facility will be located on an 8’ x 8’ concrete pad on the west side of the building. Power and telephone service to the Enfield SC3 Facility will extend from existing service inside the building. (*See Cellco’s Project Plans included in Attachment 2*). Specifications for the “small cell” antenna (Commscope Model NH360QS-DG-F0M) and RRH (Model 2X60-AWS) are included in Attachment 3.

IV. Discussion

A. The Proposed Facility Modifications Will Not Have A Substantial Adverse Environmental Effect

The Public Utility Environmental Standards Act (the “Act”), C.G.S. § 16-50g *et seq.*, provides for the orderly and environmentally compatible development of telecommunications

towers¹ in the state to avoid “a significant impact on the environment and ecology of the State of Connecticut.” C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers “that may, as determined by the council, have a substantial adverse environmental effect”. C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the installation of a small tower attached to the building at the Property, supporting a single “small cell” canister-type antenna and RRH and the placement of an equipment on the ground adjacent to the building, will not involve a significant alteration in the physical and environmental characteristics of the Property or the surrounding area.

2. Visual Effects

The installation of a small tower, a single canister-type antenna and RRH attached to the existing commercial building at the Property, would have minimal visual effects on the Property and its surroundings. (*See* Limited Visual Assessment and Photo-Simulations (“Visual Report”) included in Attachment 4). As concluded in the Visual Report, visibility of the proposed small cell installation would be limited primarily to adjacent properties where views of the building can be achieved today. The proposed small cell facility will not, therefore, have a significant impact on aesthetics in the area.

¹ Tower is defined as a structure, whether free standing or attached to a building or another structure, that has a height greater than its diameter and that is high relative to its surroundings and used to support antennas for sending or receiving radio signals. (*See* R.C.S.A. Section 16-50j-2a(23)).

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed small cell installation will be far below the standard adopted by the Federal Communications Commission (“FCC”). Included in Attachment 5 is a worst-case General Power Density table demonstrating that Cellco’s “small cell” facility will operate well within the FCC safety standard.

4. FAA Summary Report

Included in Attachment 6 is a Federal Airways & Airspace Summary Report verifying that the new tower, antenna and RRH installation attached to the building at the Property would not constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

B. Notice to the Town, Property Owner and Abutting Landowners

On October 28, 2015, a copy of this Petition was sent to Enfield’s Town Manager Matthew Coppler and Ascent Real Estate LLC, the owner of the Property. Included in Attachment 7 are copies of the letters sent to Mr. Coppler and Ascent Real Estate LLC. A copy of the Petition was also sent to the owners of land that abuts the Property. A sample abutter’s letter, and the list of those abutting landowners who received a copy of the Petition is included in Attachment 8.

V. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a tower, attached to the building, and supporting a small cell canister antenna and a RRH will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

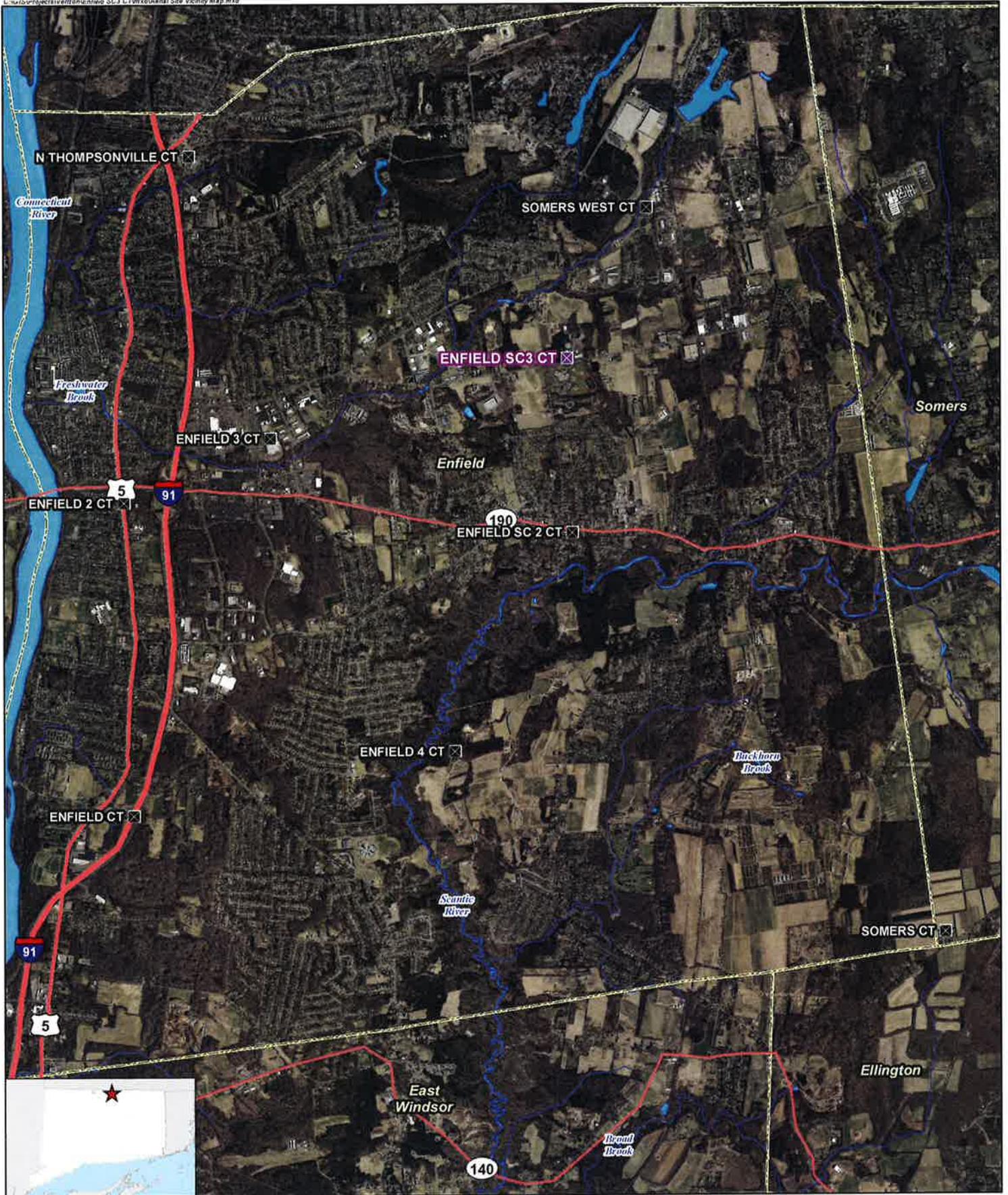
Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By 

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



Legend

-  Proposed Verizon Small Cell Facility
-  Surrounding Verizon Wireless Facilities
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Major Road

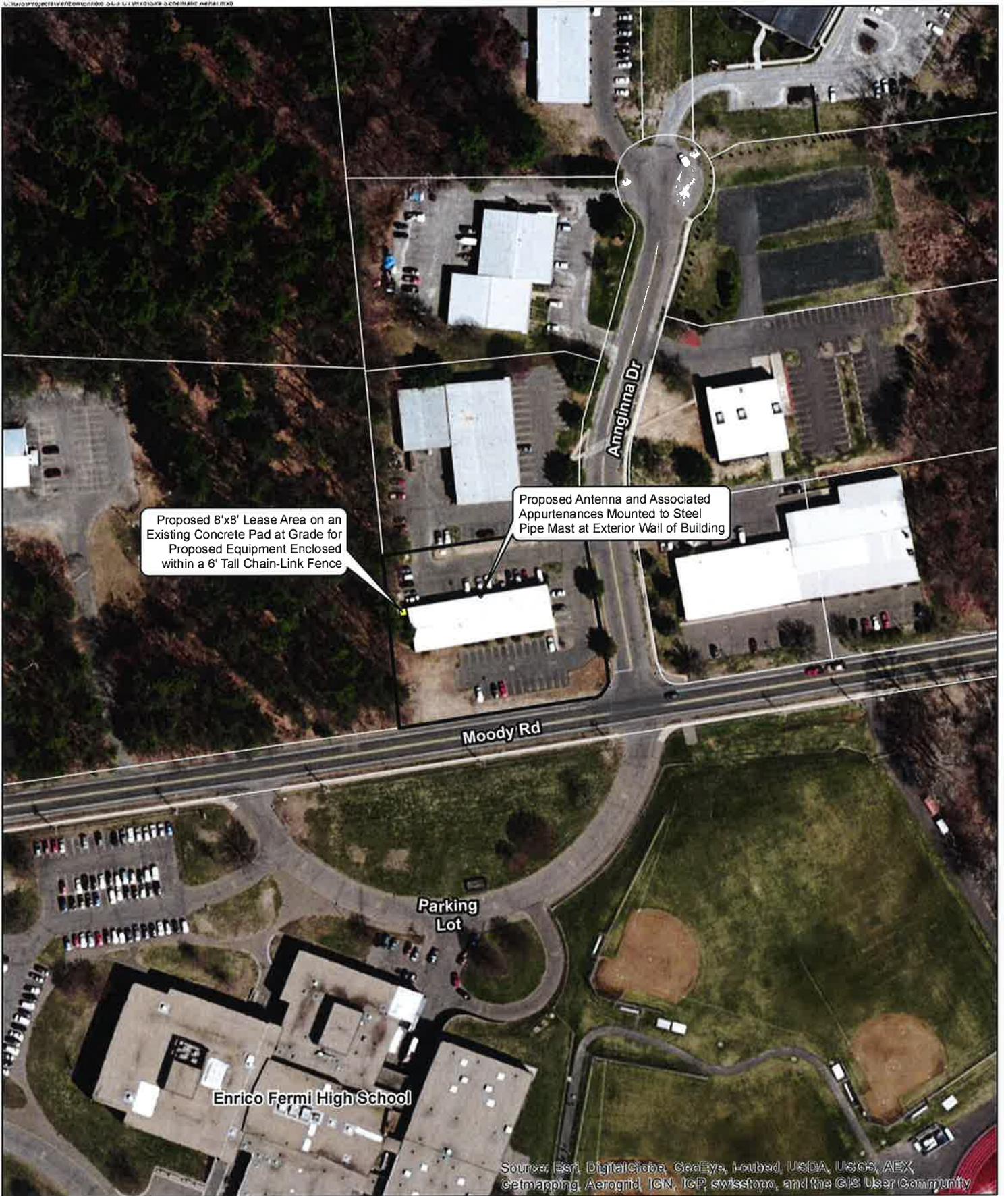
Site Vicinity Map

Proposed Small Cell Installation
 Enfield SC3 CT
 1 Anggina Drive
 Enfield, Connecticut



Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 4,352 feet
 Map Date: September 2015





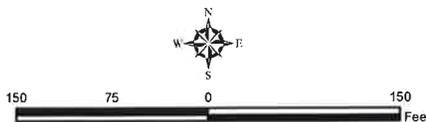
Legend

-  Subject Property
-  Proposed Lease and Equipment Area
- Approximate Parcel Boundary (CTDEEP GIS)

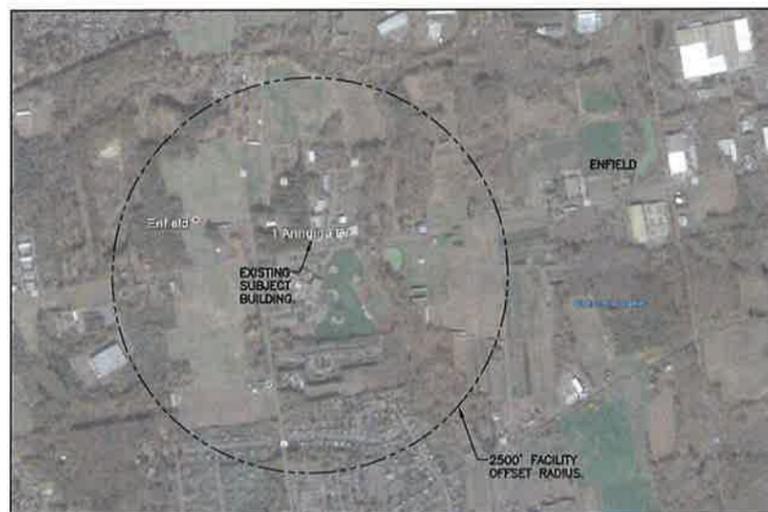
Site Schematic

Proposed Small Cell Installation
 Enfield SC3 CT
 1 Anngina Drive
 Enfield, Connecticut

Map Notes:
 Base Map Source: ESRI World Imagery, NAIP 7/17/2014
 Map Scale: 1 inch = 150 feet
 Map Date: September 2015



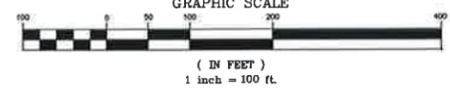
ATTACHMENT 2



MUNICIPALITY NOTIFICATION LIMIT MAP



1
C-1
ABUTTERS MAP
SCALE: 1" = 100'



REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	10/26/15	HMR	DMD	ISSUED FOR CSC
0	05/14/15	KAWAR	DMD	ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

CENTEK engineering
Centek on Subcontract
(203) 468-0580
(203) 468-6587 Fax
632 North Branch Road
Barnard, CT 06043
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
ENFIELD SC 3
1 ANNGINA DRIVE
ENFIELD, CT 06082

DATE: 09/09/15
SCALE: AS NOTED
JOB NO. 15130.000

ABUTTERS MAP

C-1
Sheet No. 2 of 3

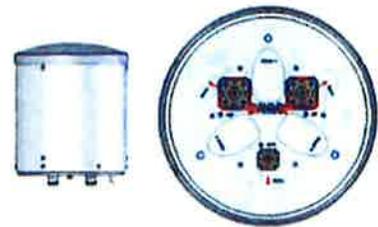
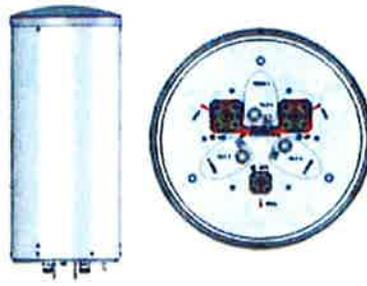
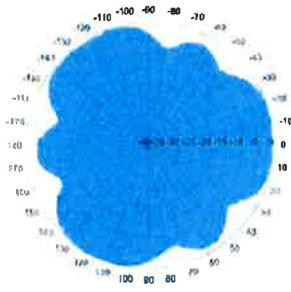
ATTACHMENT 3

Metro Cell Antennas with Internal Diplexer and GPS Antenna

Dualband Quasi-Omni (360°), Metro Cell Antenna

NH360QS-DG-F0M

NH360QT-DG-F0



ELECTRICAL SPECIFICATIONS										
Operating Frequency Range	698 - 896 and 1710 - 2170 MHz					698 - 896 and 1710 - 2170 MHz				
	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Frequency Bands, MHz	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Gain, dBi	4.3	5.3	8.0	8.1	8.5	1.3	2.3	4.0	4.2	4.5
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360	360	360
Beamwidth, Vertical, degrees	30.0	24.0	16.0	15.0	14.0	60.0	55.0	32.5	30.0	28.5
USLS, dB	12	12	14	13	13	-	-	14	12	11
Beam Tilt, degrees	0	0	0-16	0-16	0-16	0	0	0	0	0
Isolation, dB	25	25	25	25	25	25	25	25	25	25
VSWR (Return Loss, dB)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)
PIM, 3rd Order, 2 x 20 W, dBc	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50
Input Power per Port, maximum, watts	250	250	250	250	250	250	250	250	250	250
MECHANICAL SPECIFICATIONS										
Connector Interface	7 - 16 DIN Female					7 - 16 DIN Female				
Connector Quantity, Location	2, Bottom					2, Bottom				
GPS Connector Interface	4.1/9.5 DIN Female					4.1/9.5 DIN Female				
GPS Connector Quantity, Location	1, Bottom					1, Bottom				
Length, mm (Inch)	730 (28.7)					360 (14.2)				
Outer Diameter, mm (inch)	305 (12.0)					305 (12.0)				
Wind Speed, maximum, km/h (mph)	241.4 (150)					241.4 (150)				
Net Weight, kg (lb)	20.0 (44.1)					12.0 (26.5)				
AVAILABILITY										
Expected Ready Date for Manufacturing	March 2014					June 2014				

ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2X60-AWS FOR BAND 4 APPLICATIONS

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals

along with operations, administration and maintenance (OA&M) information.

SUPERIOR RF PERFORMANCE

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED TCO

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

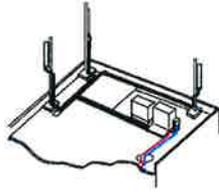
EASY INSTALLATION

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

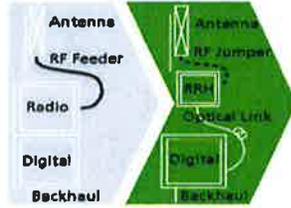
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

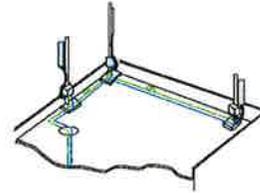
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

BENEFITS

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

silent solutions, with minimum impact on the neighborhood, which ease the deployment

- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

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ATTACHMENT 4

Limited Visual Assessment and Photo-Simulations

ENFIELD SC3
1 ANNGINA DRIVE
ENFIELD, CT 06082



Prepared in October 2015 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless



LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. (“APT”) completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of wireless telecommunications Facility at One Anngina Drive in Enfield, Connecticut (the “Property”).

Project Setting

The Property is located in a commercial park north of Moody Road, within a mixed commercial agricultural and residential area. Enrico Fermi High School is located across Moody road to the south. The Property is currently improved with a single-story building occupied by Manchester Press. The proposed Facility would include the installation of one (1) omni-directional antenna and appurtenances on a pipe-mast mounted to the north exterior building wall. The top of the antenna would extend approximately 8.5 feet above the top of the building. Associated equipment would be located exterior of the building, adjacent to its west wall, on an existing concrete pad and enclosed within an 8-foot by 8-foot chain link fence with privacy slats.

Methodology

On October 22, 2015, APT personnel conducted a field reconnaissance to photo-document existing conditions. Seven (7) nearby locations were selected to represent where the existing building is visible and depict proposed conditions with the proposed installation. At each photo location, the geographic coordinates of the camera’s position were logged using global positioning system (“GPS”) technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter (“mm”) zoom lens, with lens set to 50 mm for all but two (2) of the photographs. Photo locations 2 and 7 were shot using a 24 mm lens setting to provide a greater depth of field for presentation in this report. Focal lengths ranging from 24 mm to 50 mm approximate views similar to that achieved by the human eye. However, two key aspects of an image can be directly affected by the specific focal length that is selected: field of view and relation of sizes between objects in the frame. A 24 mm focal length provides a wider field of view, representative of the extent the human eyes may see (including some peripheral vision), but the relation of sizes between objects at the edges of the photos can become minimally skewed. A 50 mm focal length has a narrower field of view than the human eye but the relation of sizes between objects is represented similar to what the human eye might perceive.

“The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm.”¹

When taking photographs for these analyses, APT prefers a focal length of 50 mm; however there are times when wider views (requiring the use of alternate lens settings, as in this case) can better reflect “real world” viewing

¹ Warren, Bruce. Photography, West Publishing Company, Eagan, MN, c. 1993, (page 70).

conditions by providing greater context to the scene. Regardless of the lens setting, the scale of the subject in the photograph and corresponding simulation remains proportional to its surroundings.

Photographic simulations were generated to portray scaled renderings of the proposed installation from representative locations where it would be visible. Using field data, site plan information, and 3D modeling software, the spatially referenced models of the project area, the existing structure and the proposed installation were generated and merged. The geographic coordinates obtained in the field for the photograph locations were incorporated into the model to produce virtual camera positions within the spatial 3D model. Photo simulations were then created using a combination of renderings generated in the 3D model and photo-rendering software programs, depicting the proposed installation scaled to the correct location and height, relative to the existing structure and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format². A photolog map and copies of the existing conditions and photo-simulations are attached.

Conclusions

The visibility of the proposed small cell installation would be limited primarily to adjacent properties where views of the building can be achieved today. These areas include neighboring parcels within the commercial park, along Moody Road fronting the Property, and select locations on the High school grounds to the south. The antenna installation is proposed on the north side of the building, away from Moody Road. The ground equipment enclosure would be located on the building's west side, which backs up to mature woodlands. These locations and orientations are such that it serves to minimize visual exposure to locations outside of the commercial park. Based on the results of this assessment, it is APT's opinion that the proposed installation of Verizon Wireless equipment at the Property would not have a significant impact on aesthetics in the area.

Limitations

This analysis does not claim to depict the only areas, or all locations, where visibility may occur; it is intended to provide a representation of those areas where the Facility is likely to be seen. The locations simulated were chosen in the field because they presented unobstructed view lines towards the existing structure and proposed installations, to the greatest extent feasible. They are however static in nature and do not necessarily fairly characterize the prevailing views from all locations within a given area. The photo-simulations provide a representation of the Facility under similar settings as those encountered during the field reconnaissance. Views of the Facility can change throughout the seasons and the time of day, and are dependent on weather and other atmospheric conditions (e.g., haze, fog, clouds); the location, angle and intensity of the sun; and the specific viewer location. Weather conditions on the day of the reconnaissance included mostly sunny skies and the photo-simulations presented in this report provide an accurate portrayal of the Facility during comparable conditions.

² When viewing in this format size, we believe it is important to provide the largest representational image while maintaining an accurate relation of sizes between objects within the frame of the photograph and depicting the subject in a way similar to what an observer might see, to the greatest extent possible.

ATTACHMENTS



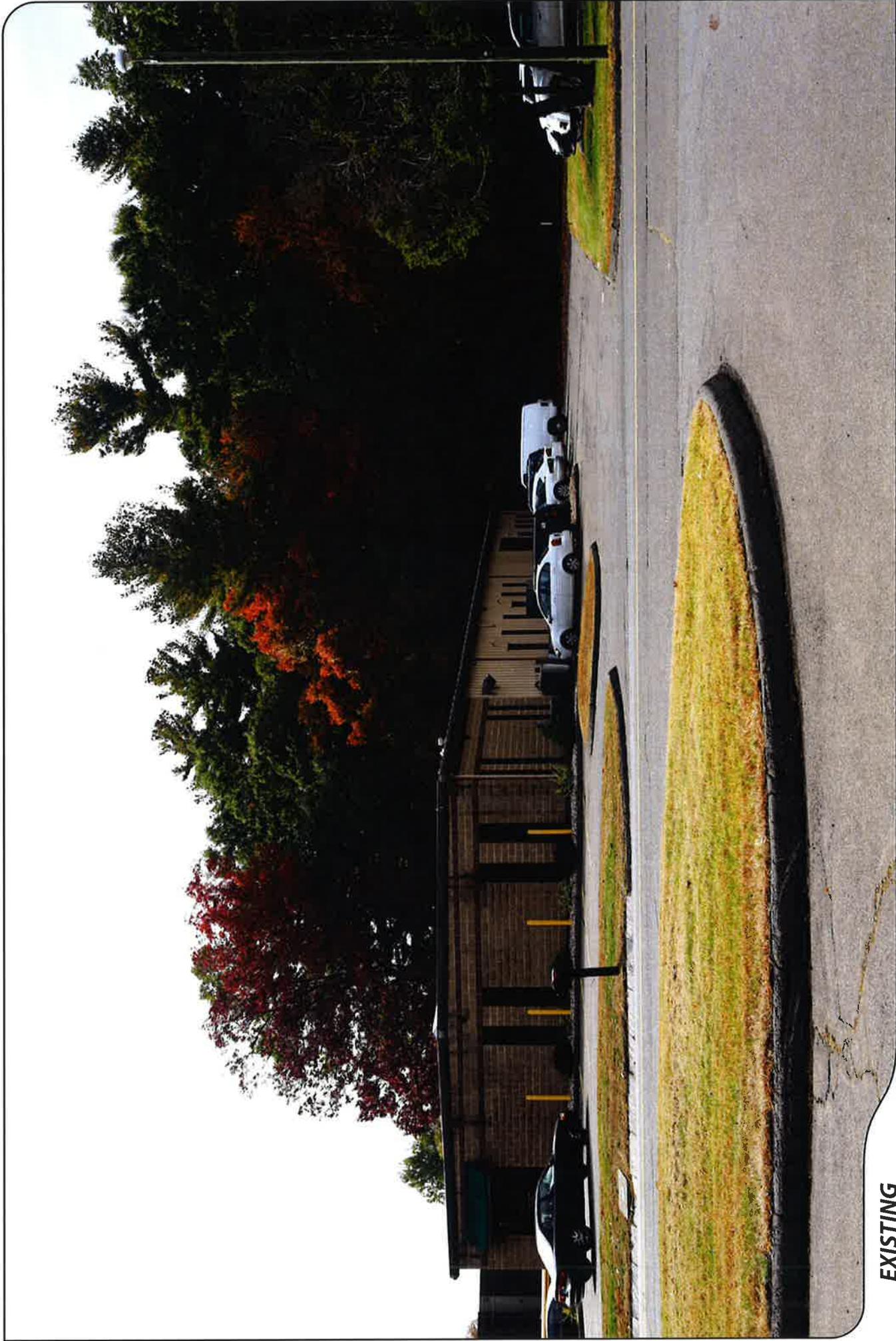
PHOTO LOG

- Legend
- Site
 - Photo Location



Source: Esri, DigitalGlobe, GeoEye, AeroVista, USDA, USGS, AEX, Garmin, Aergrid, IGN, IGP, swisstopo, and the GIS User Community





EXISTING

PHOTO

1

LOCATION

ANNINGA DRIVE

ORIENTATION

SOUTHWEST

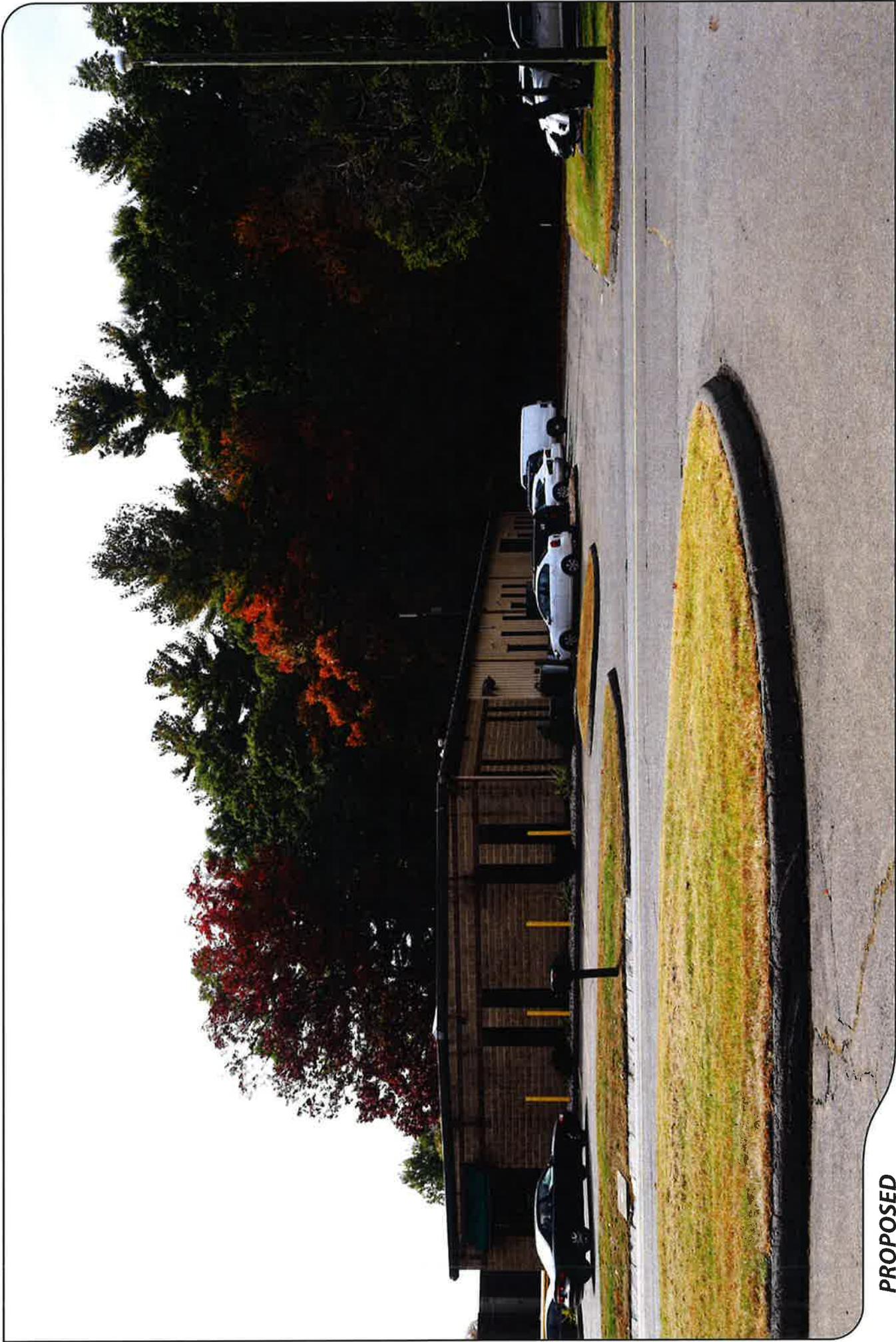
DISTANCE TO SITE

+/- 265 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

1

LOCATION

ANNINGA DRIVE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 265 FEET





EXISTING

PHOTO

2

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTH

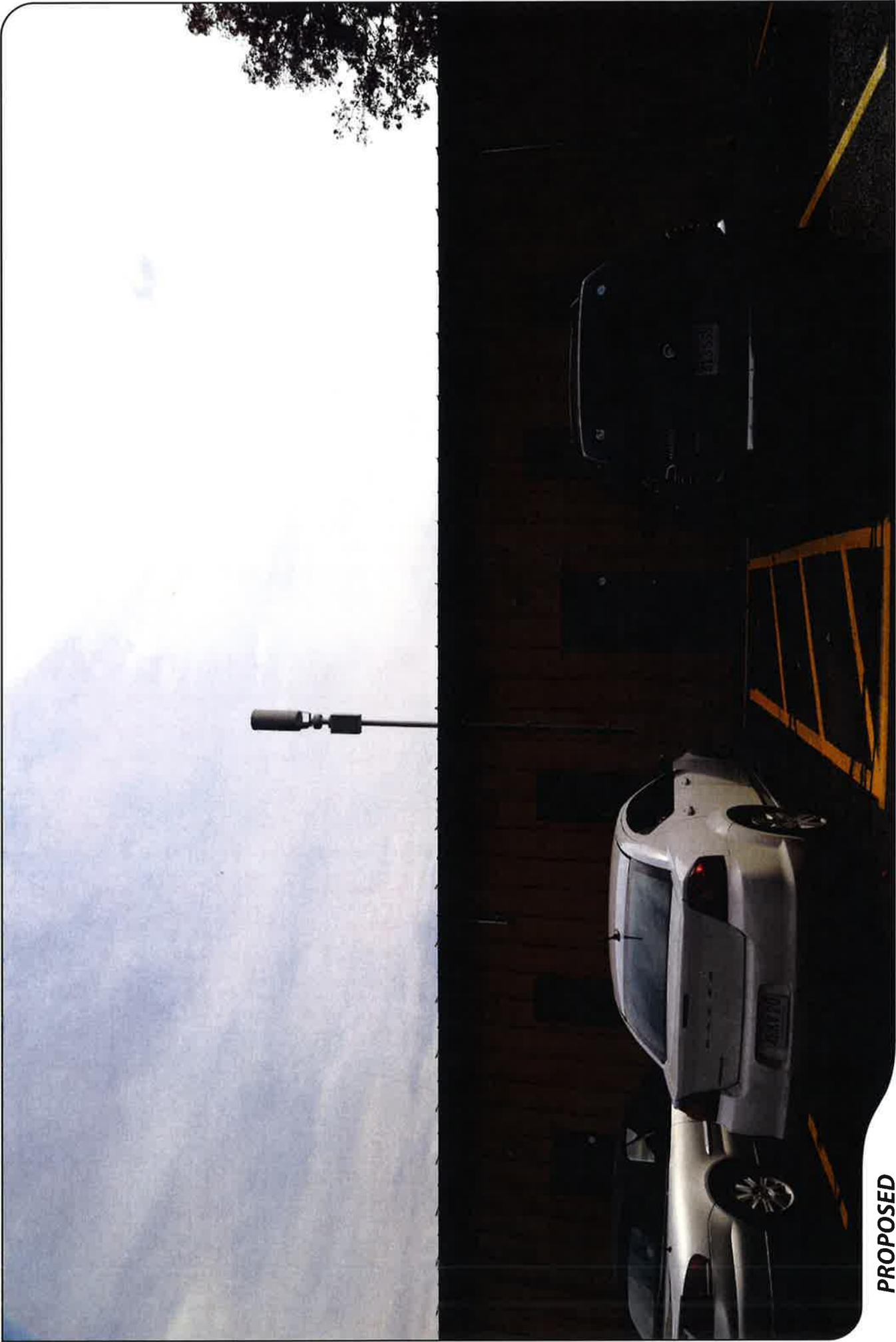
DISTANCE TO SITE

+/- 51 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

2

LOCATION

HOST PROPERTY (24mm Focal Length)

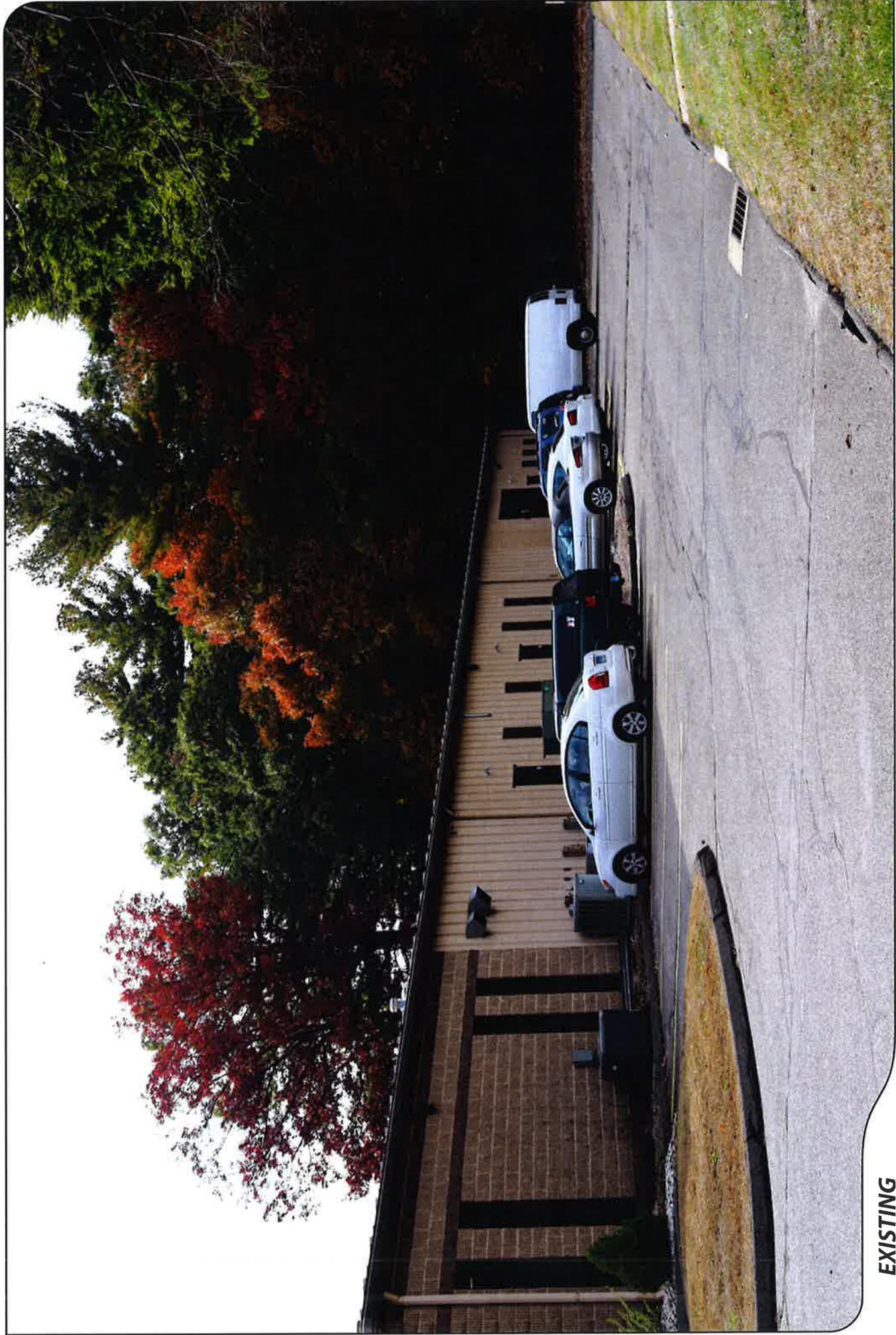
ORIENTATION

SOUTH

DISTANCE TO SITE

+/- 51 FEET





EXISTING

PHOTO

3

LOCATION

ANNGINA DRIVE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 166 FEET





PROPOSED

PHOTO

3

LOCATION

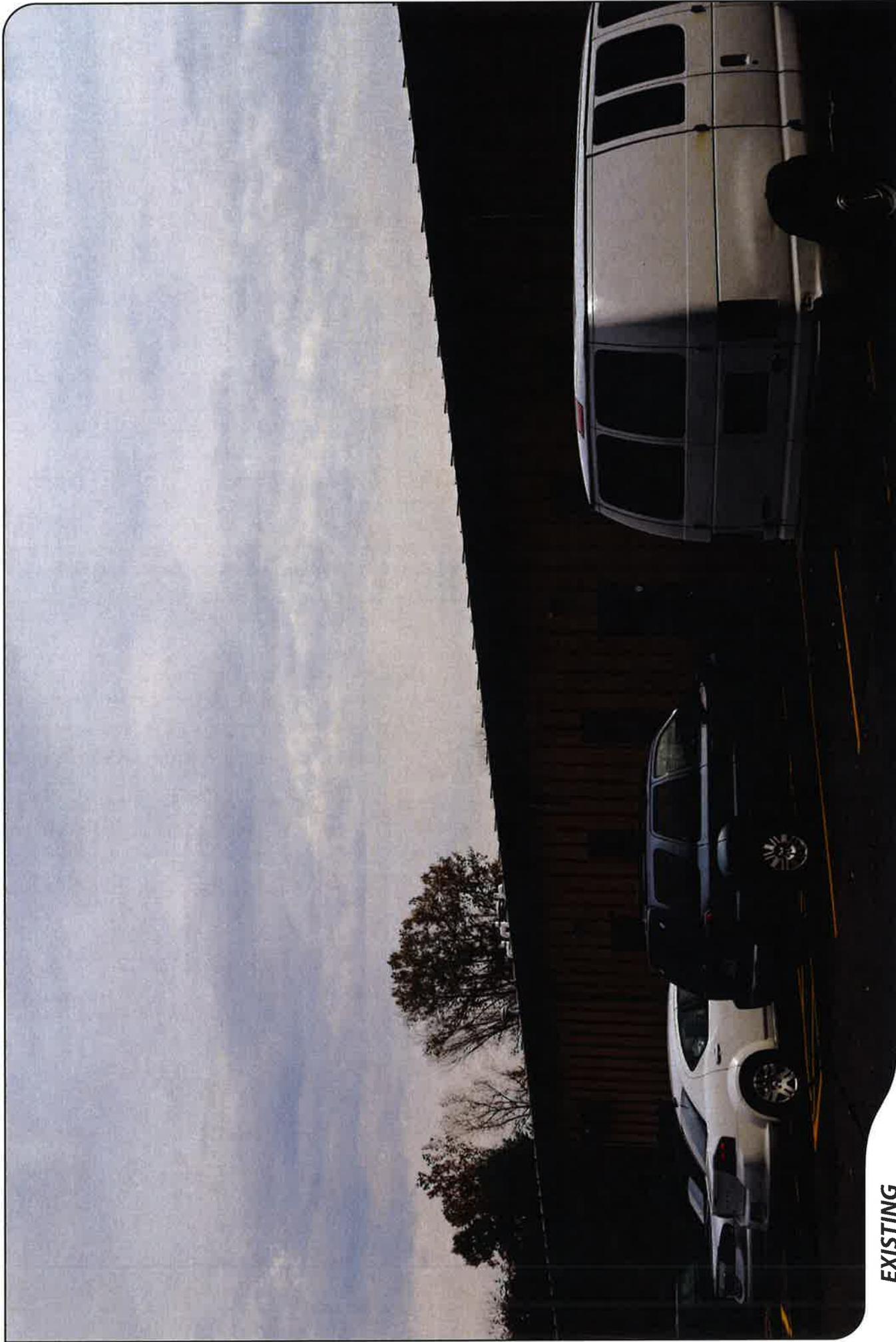
ANNGINA DRIVE

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 166 FEET



EXISTING

PHOTO

4

LOCATION

HOST PROPERTY

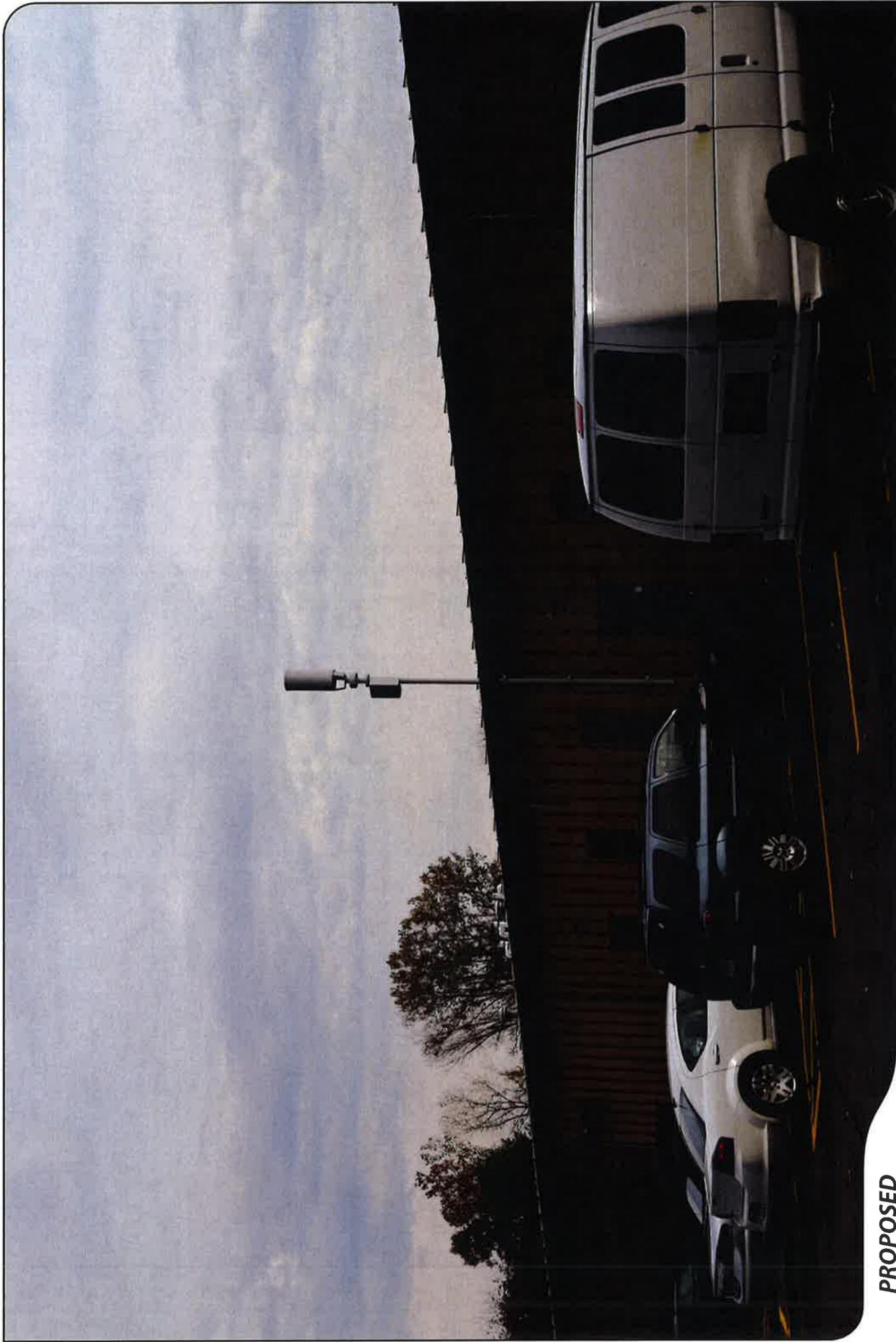
ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 68 FEET





PROPOSED

PHOTO

4

LOCATION

HOST PROPERTY

ORIENTATION

SOUTHEAST

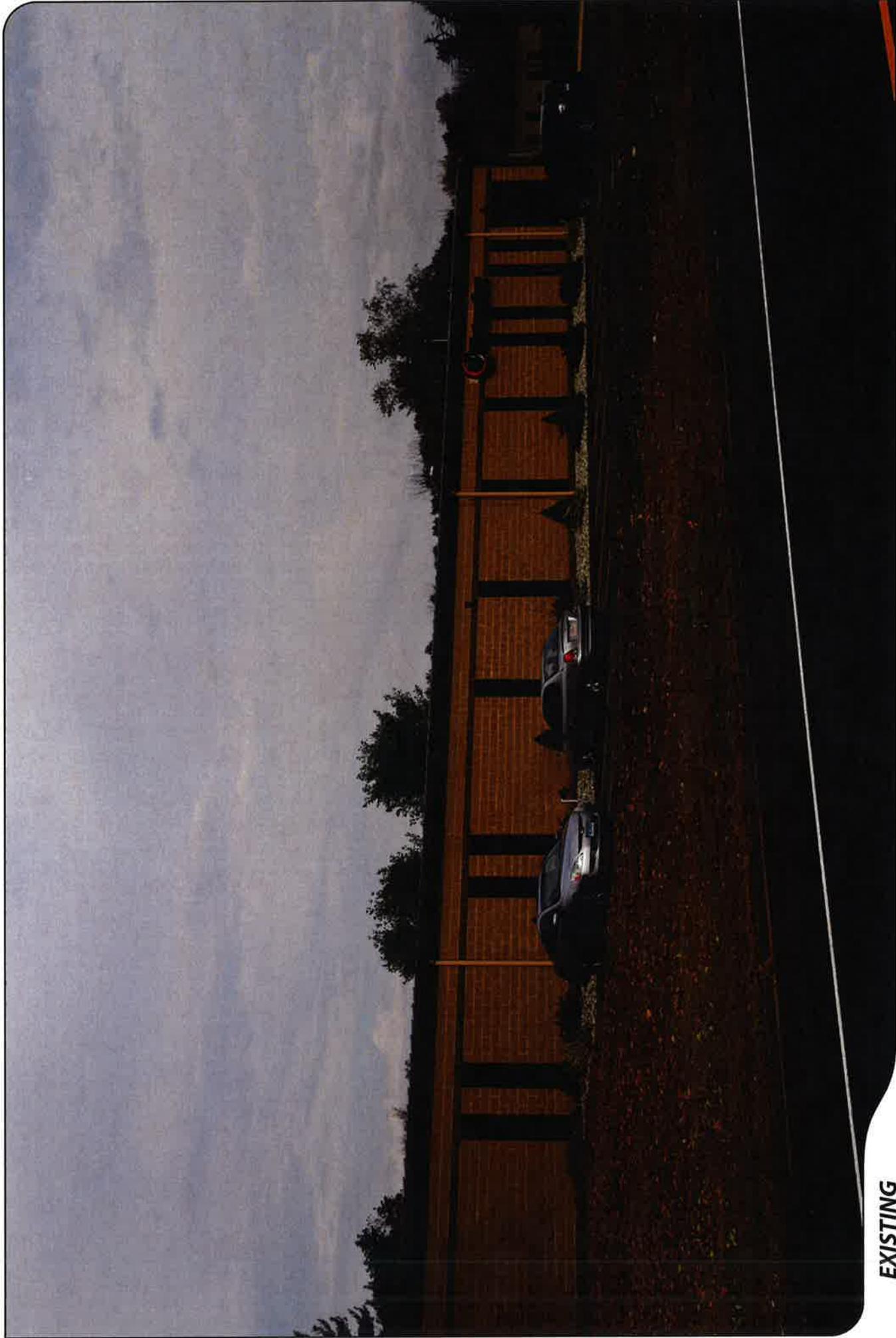
DISTANCE TO SITE

+/- 68 FEET



ALL-POINTS
TECHNOLOGY CORPORATION

verizon



EXISTING

PHOTO

5

LOCATION

MOODY ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 184 FEET





PROPOSED

PHOTO

5

LOCATION

MOODY ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 184 FEET





EXISTING

PHOTO

6

LOCATION

MOODY ROAD

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 271 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

6

LOCATION

MOODY ROAD

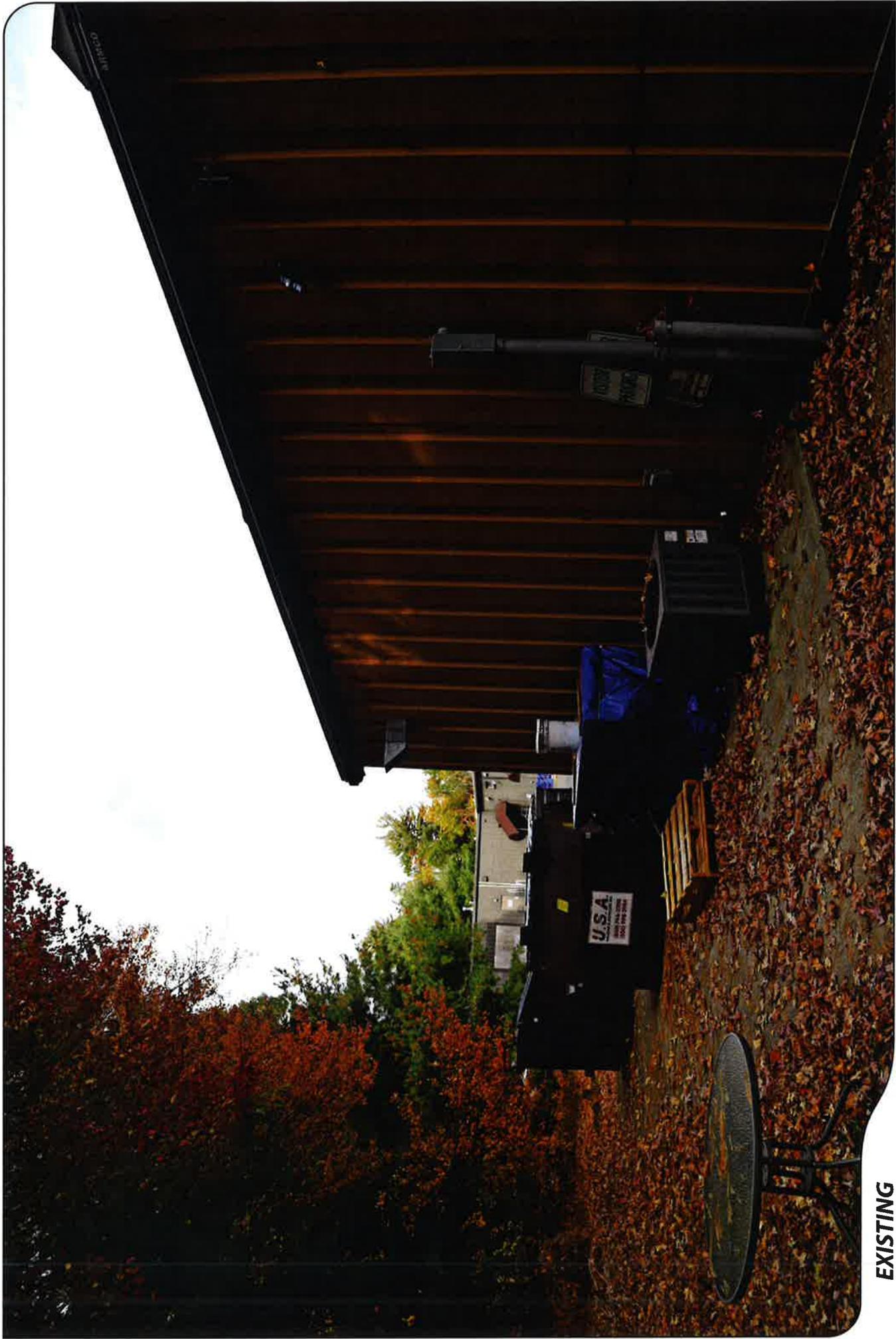
ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 271 FEET





EXISTING

PHOTO

7

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

EAST

DISTANCE TO SITE

+/- 20 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

7

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

EAST

DISTANCE TO SITE

+/- 20 FEET



ALL-POINTS
TECHNOLOGY CORPORATION

verizon

ATTACHMENT 5

General Power Density

Site Name: Enfield SC 3, CT
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW AWS	2145	1	595	595	21	0.4852	1.0	48.52%

Total Percentage of Maximum Permissible Exposure

48.52%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

ATTACHMENT 6

* Federal Airways & Airspace
*
* Summary Report: New Construction
*
* Antenna Structure
*

Airspace User: Mark Brauer

File: ENFIELD_SC_3_CT

Location: Stafford Springs, CT

Latitude: 42°-0'-7.38" Longitude: 72°-32'-18.94"

SITE ELEVATION AMSL.....175 ft.
STRUCTURE HEIGHT.....23 ft.
OVERALL HEIGHT AMSL.....198 ft.

NOTICE CRITERIA

- FAR 77.9(a): NNR (DNE 200 ft AGL)
- FAR 77.9(b): NNR (DNE Notice Slope)
- FAR 77.9(c): NNR (Not a Traverse Way)
- 7B6 FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for
- 7B9 FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for
- FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required

NNR = Notice Not Required

PNR = Possible Notice Required (depends upon actual IFR procedure)

For new construction review Air Navigation Facilities at bottom of this report.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a) (1): DNE 499 ft AGL

FAR 77.17(a)(2): DNE - Airport Surface
 FAR 77.19(a): DNE - Horizontal Surface
 FAR 77.19(b): DNE - Conical Surface
 FAR 77.19(c): DNE - Primary Surface
 FAR 77.19(d): DNE - Approach Surface
 FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: 7B6: SKYLARK AIRPARK

Type: A RD: 28130.5 RE: 125

FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet

AGL.

VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: 7B9: ELLINGTON

Type: A RD: 34915.81 RE: 248.3

FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)

FAR 77.17(a)(3) Departure Surface Criteria (40:1)
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)

FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
 The Maximum Height Permitted is 2000 ft AMSL

PRIVATE LANDING FACILITIES

FACIL	BEARING	RANGE	DELTA
ARP FAA	To FACIL	IN NM	
IDENT TYP NAME			
ELEVATION IFR			

+21	CT27 HEL TENNESSEE F	330.31	.13
-----	----------------------	--------	-----

No Impact to Private Landing Facility
 Below Notice Standards by: 1 feet.

No Impact to Private Landing Facility
 No violation of Helicopter Approach Surface.
 Estimated safety margin is: 33 feet.

+69	CT19 AIR LAURIE FIELD	181.42	2.04
-----	-----------------------	--------	------

No Impact to Private Landing Facility.
DNE 200 ft AGL within 3 NM of Airport.

92	CT53 HEL MOUNTAIN VIEW	67.33	2.66	-
	No Impact to Private Landing Facility Structure 0 ft below heliport.			
23	CT29 AIR VALLEY FARMS	76.73	3.02	-
	No Impact to VFR Transitional Surface. Below surface height of 202 ft above ARP.			
+163	CT87 SEA BOOTLEGGERS	265.74	3.02	
	No Impact to VFR Transitional Surface. Below surface height of 202 ft above ARP.			
192	CT15 AIR WYSOCKI FIELD	141.25	4.37	-
	No Impact to VFR Transitional Surface. Below surface height of 337 ft above ARP.			
+78	MA67 HEL TGP	294.99	4.6	
	No Impact to Private Landing Facility Structure is beyond notice limit by 22950 feet.			
+83	CT23 HEL DELLA	218.94	4.79	
	No Impact to Private Landing Facility Structure is beyond notice limit by 24105 feet.			

AIR NAVIGATION ELECTRONIC FACILITIES

GRND	FAC	ST	DIST	DELTA	ST	LOCATION
ANGLE	IDNT	TYPE	AT	FREQ	VECTOR	(ft) ELEVA
BEAR	-----					
-.05	BDL	RADAR	ON	239.35	45457	-38 CT BRADLEY INTL
	No Impact. This structure does not require Notice based upon EMI. The studied location is within 20 NM of a Radar facility. The calculated Radar Line-Of-Sight (LOS) distance is: 36 NM. This location and height is within the Radar Line-Of-Sight.					
-.03	CEF	VORTAC	R	114.0	2.68	71312 -43 MA WESTOVER
-.05	BAF	VORTAC	R	113.0	320.45	75628 -69 MA BARNES

	HFD	VOR/DME	R	114.9	181.04	131556	-651	CT	HARTFORD
-.28									
	CTR	VOR/DME	I	115.1	313.55	153371	-1402	MA	CHESTER
-.52									
	PUT	VOR/DME	R	117.4	95.37	189611	-454	CT	PUTNAM
-.14									
	ORH	RADAR WXL	Y		61.27	206013	-805	MA	WORCESTER
-.22									
	QHA	RADAR ARSR	Y	1320.	326.12	207821	-1955	MA	West
Cummington									
									-.54

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.

Movement Method Proof as specified in §73.151(c) is not required.

Please review 'AM Station Report' for details.

Nearest AM Station: WHNP @ 8041 meters.

Airspace® Summary Version 15.7.400

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08-31-2015

14:59:50

ATTACHMENT 7

October 28, 2015

Via Certificate of Mailing

Matthew Coppler, Town Manager
Town of Enfield
820 Enfield Street
Enfield, CT 06082

Re: **Installation of a Small Cell Telecommunications Facility at 1 Anngina Drive,
Enfield, Connecticut**

Dear Mr. Coppler:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a “small cell” telecommunications facility at 1 Anngina Drive in Enfield (the “Property”).

The proposed “small cell” would consist of a small tower attached to the northerly side of the building at the Property. The tower would support a single canister-type antenna and a Remote Radio Head (“RRH”) and would extend approximately 8’.5” above the roof of the building. Equipment associated with the small cell facility will be located on a small concrete pad along the west side of the building.

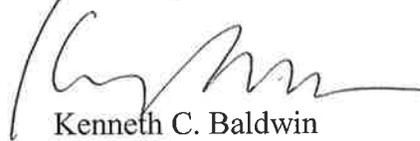
A copy of Cellco’s Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of the Petition.

Robinson + Cole

Matthew Coppler
October 28, 2015
Page 2

Please contact me if you have any questions regarding this proposal.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenneth C. Baldwin', written over a light blue horizontal line.

Kenneth C. Baldwin

KCB/kmd
Attachment

October 28, 2015

Via Certificate of Mailing

Mark Weber
Ascent Real Estate LLC
1 Anngina Drive
Enfield, CT 06082

**Re: Installation of a Small Cell Telecommunications Facility at 1 Anngina Drive,
Enfield, Connecticut**

Dear Mr. Weber:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a “small cell” telecommunications facility at 1 Anngina Drive in Enfield (the “Property”).

The proposed “small cell” would consist of a small tower attached to the northerly side of the building at the Property. The tower would support a single canister-type antenna and a Remote Radio Head (“RRH”) and would extend approximately 8’.5” above the roof of the building. Equipment associated with the small cell facility will be located on a small concrete pad along the west side of the building.

A copy of Cellco’s Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of the Petition.

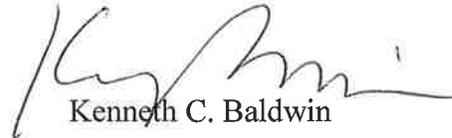
14128972-v1

Robinson + Cole

Mark Weber
October 28, 2015
Page 2

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment

ATTACHMENT 8

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

October 28, 2015

Via Certificate of Mailing

«Name_and_Address»

Re: Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a “Small Cell” Telecommunications Facility at 1 Anngina Drive, Enfield, Connecticut

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a “small cell” telecommunications facility at 1 Anngina Drive in Enfield (the “Property”).

The proposed “small cell” would consist of a small tower attached to the northerly side of the building at the Property. The tower would support a single canister-type antenna and a Remote Radio Head (“RRH”) and would extend approximately 8’.5” above the roof of the building. Equipment associated with the small cell facility will be located on a small concrete pad along the west side of the building. A copy of Cellco’s Petition is attached for your review.

This notice is being sent to you because you are listed as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council’s process for reviewing the Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

October 28, 2015
Page 2

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

1 ANNGINA DRIVE, ENFIELD, CONNECTICUT

	Property Address	Owner's and Mailing Address
1.	89 Moody Road	John P. and Martha A. O'Brien 89 Moody Road Enfield, CT 06082
2.	3 Anngina Drive	Anngina Drive LLC 3 Anngina Drive Enfield, CT 06082
3.	138 Maple Street	The Benevolent Hall Co. P.O. Box 771 Enfield, CT 06083-0771
4.	4 Anngina Drive	IGOT2GO LLC 7 Moody Road, #2F Enfield, CT 06082
5.	124 Maple Street	Town of Enfield 124 Maple Street Enfield, CT 06082