

April 26, 2017

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification  
301 Chesterfield Road, East Lyme, Connecticut**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a small cell wireless facility at the Aces High RV Park, 301 Chesterfield Road in East Lyme, Connecticut (the “Property”). The facility consists of a single canister antenna disguised as a stovepipe on the roof of the building at the Property. Equipment associated with the small cell facility is located inside the existing building. The Council approved this installation on January 22, 2015 (Petition No. 1127). Cellco now intends to install a new remote radio head (“RRH”) on the façade of the building near its antenna support structure. Included in Attachment 1 are specifications for Cellco’s new RRH.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mark C. Nickerson, First Selectman of the Town of East Lyme; Gary A. Goeschel II, East Lyme’s Director of Planning; and Three Hundred and One Chesterfield LLC, the Property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure. Cellco’s RRH will be installed on the façade of the existing building on the Property.

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2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of a new RRH on the building façade will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 2.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The building façade can support Cellco's proposed modifications. (See Structural Letter included in Attachment 3).

A copy of the East Lyme parcel map and property owner information is included in Attachment 4.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Mark C. Nickerson, East Lyme First Selectman  
Gary A. Goeschel II, East Lyme Director of Planning  
Three Hundred and One Chesterfield LLC  
Tim Parks  
Elizabeth Jamieson

# **ATTACHMENT 1**

# ALCATEL-LUCENT B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering.

**Supporting 2Tx/4Tx MIMO and 4-way Rx diversity**, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

Its compactness and slim design makes the Alcatel-Lucent B13 RRH4x30-4R easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

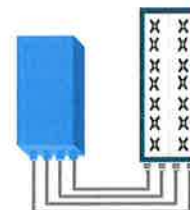


## FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

## BENEFITS

- Compact to reduce additional footprint when adding LTE in 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R  
or  
2x60W with 2T4R  
Can be switched between  
modes via SW w/o site  
visit

## TECHNICAL SPECIFICATIONS

Features & performance	
<b>Number of TX/RX paths</b>	4 duplexed (either 4T4R or 2T4R by SW)
<b>Frequency band</b>	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
<b>Instantaneous bandwidth - #carriers</b>	10MHz – 1 LTE carrier (in 10MHz occupied bandwidth)
<b>LTE carrier bandwidth</b>	10 MHz
<b>RF output power</b>	2x60W or 4x30W (by SW)
<b>Noise figure – RX Diversity scheme</b>	2 dB typ. (<2.5 dB max) – 2 or 4 way Rx diversity
<b>Sizes (HxWxD) in mm (in.)</b>	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
<b>Volume in L</b>	38 (with solar shield)
<b>Weight in kg (lb) (w/o mounting HW)</b>	26 (57.2) (with solar shield)
<b>DC voltage range</b>	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
<b>DC power consumption</b>	550W typical @100% RF load. ( in 2Tx or 4TX mode)
<b>Environmental conditions</b>	-40°C (-40°F) /+55°C (+131°F) IP65
<b>Wind load (@150km/h or 93mph)</b>	Frontal:<200N / Lateral :<150N
<b>Antenna ports</b>	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
<b>CPRI ports</b>	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
<b>AISG interfaces</b>	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
<b>Misc. Interfaces</b>	4 external alarms (1 connector) – 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
<b>Installation conditions</b>	Pole and wall mounting
<b>Regulatory compliance</b>	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

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# **ATTACHMENT 2**

General Power Density

Site Name: East Lyme SC 2 , 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 <sup>2</sup> )	Maximum Permissible Exposure* (mW/cm <sup>2</sup> )	Fraction of MPE (%)
VZW PCS	1970	0	0	0	27.51	0.0000	1.0	0.00%
VZW Cellular	869	0	0	0	27.51	0.0000	0.579333333	0.00%
VZW AWS	2145	0	0	0	27.51	0.0000	1.0	0.00%
VZW 700	746	1	291	291	27.51	0.1383	0.497333333	27.80%

**Total Percentage of Maximum Permissible Exposure**

27.80%

\*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/cm<sup>2</sup> = milliwatts per square centimeter  
 ERP = Effective Radiated Power

Absolute worst case maximum values used, including the following assumptions:

1. closest accessible point is distance from antenna to base of pole;
2. continuous transmission from all available channels at full power for indefinite time period; and,
3. all RF energy is assumed to be directed solely to the base of the pole.

# **ATTACHMENT 3**





Dewberry Engineers Inc.  
600 Parsippany Road, Suite 301  
Parsippany, NJ 07054

973.739.9400  
973.739.9710 fax  
www.dewberry.com

April 17, 2017

Mr. Brian Paul  
Verizon Wireless  
99 East River Drive  
East Hartford, CT 06108

**Re: East Lyme CT SC 2  
301 Chesterfield Road  
East Lyme, CT 06333**

Dear Mr. Paul,

Dewberry Engineers Inc. (Dewberry) has evaluated the proposed equipment installation by Verizon Wireless at the above referenced site. The current scope will include the removal of (1) existing MRO radio equipment, and replace with (1) proposed remote radio unit B13 RRH 4x30 (20.9"H x 11.8"W x 7.5"D, 55.6 lbs with solar shield), on existing mounts.

Our review concludes the proposed load, installed per Design Exhibit by Dewberry dated March 30, 2017, does not exceed the capacity of the current mounting installation. Dewberry recommends the installation be inspected and maintained for general decay and that any additional installations require a similar evaluation.

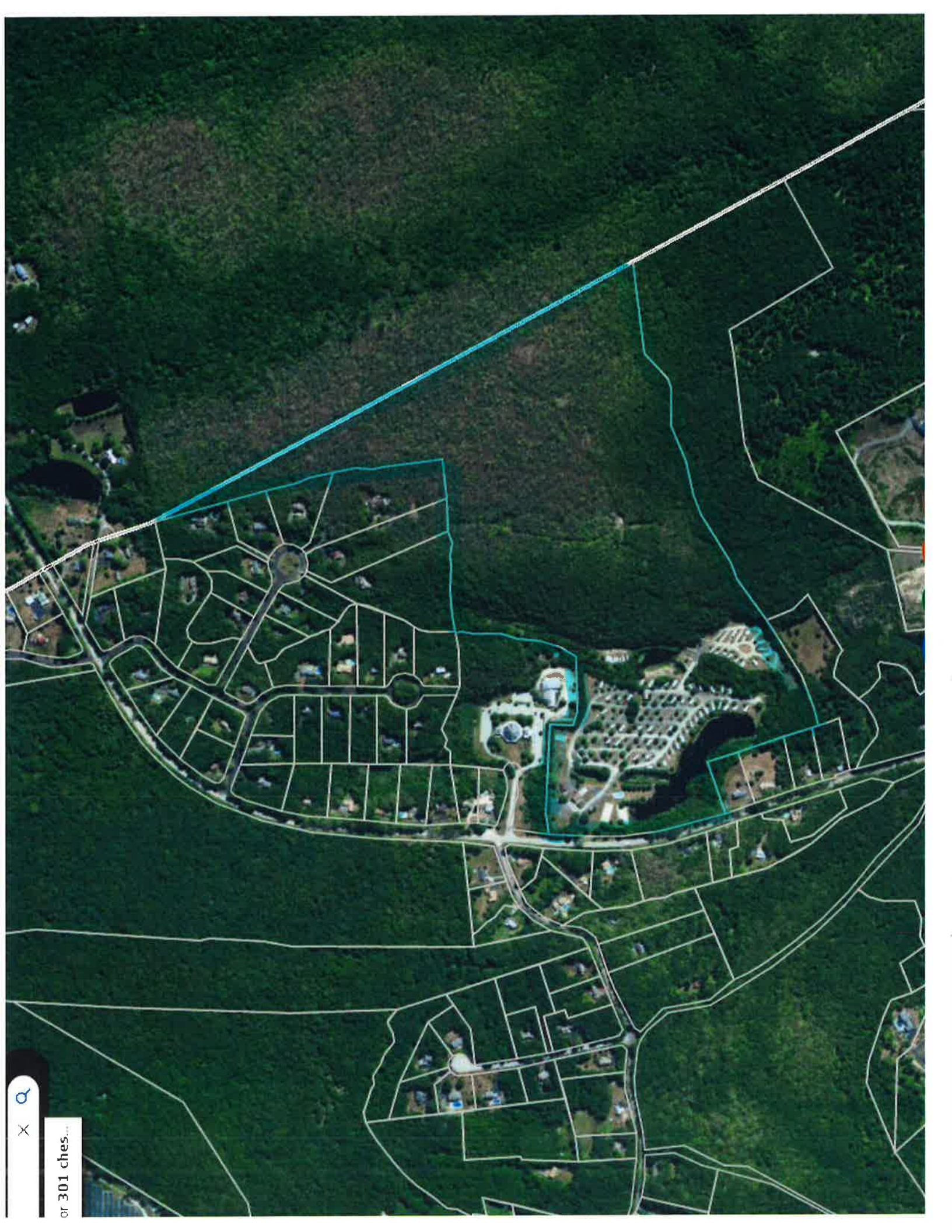
Our assessment is based on the assumption that the existing building structure is in good condition and was constructed in conformance with all applicable state and local building codes. If during construction any damage or deterioration is noticed, Dewberry is to be notified to assess any deviation from the assumed condition. The addition or reconfiguration of any new equipment not accounted for in this assessment will require further analysis and design.

If you have any questions, please do not hesitate to call me at 973-576-9631.

Sincerely,  
Dewberry Engineers Inc.



# **ATTACHMENT 4**



X

or 301 ches...

# 301 CHESTERFIELD RD

**Location** 301 CHESTERFIELD RD

**Mblu** 48.0/ 123/ / /

**Acct#** 005439

**Owner** THREE HUNDRED AND ONE

**Assessment** \$1,178,380

**Appraisal** \$1,965,400

**PID** 8047

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$565,700	\$1,399,700	\$1,965,400

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$395,990	\$782,390	\$1,178,380

## Owner of Record

**Owner** THREE HUNDRED AND ONE  
**Co-Owner** CHESTERFIELD LLC  
**Address** 301 CHESTERFIELD RD  
EAST LYME, CT 06333

**Sale Price** \$0  
**Certificate**  
**Book & Page** 697/ 307  
**Sale Date** 02/15/2005  
**Instrument** 03

## Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
QUINN PATRICK D	\$182,000		410/ 303	14	06/26/1996
NORWICH SAVINGS SOCIETY	\$0		404/ 297	03	03/04/1996
BANK OF SOUTHEASTERN CT	\$0		337/ 396	14	09/16/1992
MOUNTAIN MEADOW INC	\$1,187,000		297/ 17	00	02/13/1990

## Building Information

### Building 1 : Section 1

**Year Built:** 1998  
**Living Area:** 1,886  
**Replacement Cost:** \$244,172  
**Building Percent** 91  
**Good:**

**Replacement Cost**  
**Less Depreciation:** \$222,200

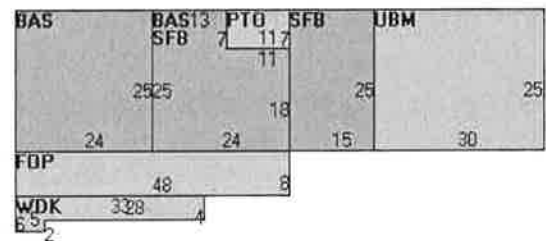
Building Attributes	
Field	Description
STYLE	Clubs/Lodges
MODEL	Commercial
Grade	Average
Stories:	1
Occupancy	1
Exterior Wall 1	Logs
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F GlS/Cmp
Interior Wall 1	K PINE/A WD
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	CAMPGROUND MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	1
1st Floor Use:	3860
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & MIN WL
Rooms/Prtns	AVERAGE
Wall Height	8
% Corn Wall	0

**Building Photo**



(<http://images.vgsi.com/photos2/EastLymeCTPhotos//\01\01\4>)

**Building Layout**



Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	1,123	1,123
SFB	Base, Semi-Finished	898	763
FOP	Porch, Open, Finished	384	0
PTO	Patio	77	0
UBM	Basement, Unfinished	750	0
WDK	Deck, Wood	142	0
		3,374	1,886

**Building 1 : Section 1**

**Year Built:** 1998  
**Living Area:** 0  
**Replacement Cost:** \$244,172  
**Building Percent Good:** 91  
**Replacement Cost Less Depreciation:** \$222,200

Building Attributes
---------------------

Field	Description
Style	Vacant Land
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	

### Building Photo



(<http://images.vgsi.com/photos2/EastLymeCTPhotos//default.jp>)

### Building Layout

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

### Extra Features

Extra Features	Legend
No Data for Extra Features	

### Land

#### Land Use

<b>Use Code</b>	3860
<b>Description</b>	CAMPGROUND MDL-94
<b>Zone</b>	R40
<b>Neighborhood</b>	0055
<b>Alt Land Appr Category</b>	No

#### Land Line Valuation

<b>Size (Acres)</b>	93.90
<b>Frontage</b>	0
<b>Depth</b>	0
<b>Assessed Value</b>	\$782,390
<b>Appraised Value</b>	\$1,399,700

### Outbuildings

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**Outbuildings**

**Legend**

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD1	SHED FRAME			468 S.F.	\$3,400	1
BHS2	CMM BTH HSE GD			624 S.F.	\$14,000	1
	SITES			65	\$175,500	1
	SITES			22	\$59,400	1
SPL1	POOL-INGR CONC			882 S.F.	\$6,600	1
PAT1	PATIO-AVG			1740 S.F.	\$4,400	1
PAT1	PATIO-AVG			551 S.F.	\$1,400	1
CNP2	GOOD QUALITY			1500 S.F.	\$75,000	1
PAT1	PATIO-AVG			1500 S.F.	\$3,800	1

**Valuation History**

<b>Appraisal</b>			
Valuation Year	Improvements	Land	Total
2015	\$518,500	\$1,255,300	\$1,773,800
2014	\$518,500	\$1,255,300	\$1,773,800
2013	\$475,800	\$1,255,300	\$1,731,100

<b>Assessment</b>			
Valuation Year	Improvements	Land	Total
2015	\$362,950	\$687,610	\$1,050,560
2014	\$362,950	\$687,610	\$1,050,560
2013	\$333,060	\$687,610	\$1,020,670

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