

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 :
AT THE LIME ROCK PARK, 497 LIME ROCK :
ROAD, LAKEVILLE, CONNECTICUT : SEPTEMBER 23, 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 facility on the approximately 325-acre Lime Rock Park parcel at 497 Lime Rock Road, Lakeville (Town of Salisbury), Connecticut (the “Property”). (See Site Vicinity Map and Site Schematic (Aerial Photograph) included in Attachment 1). The Property is owned by Lime Rock Park LLC.

II. Factual Background

Cellco currently maintains two (2) cell sites in and around the Lakeville area which provide reliable wireless service along portions of Routes 7 and 112 and to the surrounding area.

Reliable wireless service in and around the Lime Rock Park, however, remains problematic, particularly during events hosted at the Lime Rock Park that attract large crowds. During these events, Cellco experiences significant problems with reliable wireless service, particularly network capacity problems in the Lakeville area. In an effort to resolve these problems Cellco intends to deploy a “small cell” facility at Lime Rock Park. The Lime Rock small cell facility will provide capacity relief and coverage benefits at the Property and in the immediate surrounding area.

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges throughout the State of Connecticut. Initially, the proposed Lime Rock small cell facility is proposed to provide wireless service in Cellco’s 2100 MHz frequency range only.

III. Proposed “Small Cell” Facility

The proposed Lime Rock small cell facility would be located in the center of the Property. At this location, Cellco proposes to install a 30-foot tall steel monopole tower within an 12-foot by 18-foot gravel compound and leased area. Cellco would install six (6) antennas (two (2) antennas per sector) and three (3) Remote Radio Heads (“RRHs”) on T-Arm mounting structures at the top of the tower. Cellco’s antennas will extend to an overall height of approximately 32’-4” above ground level (“AGL”). (See Cellco’s Project Plans included in Attachment 2). Radio equipment associated with the “small cell” antennas will be located inside a small cabinet installed on a concrete pad near the base of the new tower. The tower and equipment cabinet will be surrounded by a six (6) foot tall security fence. Specifications for Cellco’s antennas and RRHs 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 towers 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 the proposed 30-foot steel monopole tower with six (6) “small cell” antennas attached at the top and the placement of an equipment cabinet inside a 12-foot by 18-foot cabinet near the base of the tower will not involve a significant alteration in the physical and environmental characteristics of the Property. Cellco’s new 30-foot monopole will be placed on the edge of an existing wooded area in the middle of the Property. Antenna cables will be installed inside the monopole, and will extend above ground to the equipment cabinet. Vehicular access to the facility location would extend from White Hollow Road over existing paved and gravel driveways on the Property. No significant trees (6 inches or greater diameter at breast height) would need to be removal to accommodate development of the proposed Lime Rock small cell facility. Ground disturbance will be limited to the 12-foot by 18-foot compound and leased area and a small area surrounding the leased area.

2. Visual Effects

The installation of a 30-foot tower, six (6) antennas and three (3) RRHs 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, views of the Lime Rock small cell facility would be limited to locations in the immediate vicinity of the tower site or are otherwise screened by the existing mature trees in the area. Overall, the installation at the Property would not be highly visible nor have a significant impact on aesthetics in the area.

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed installation will be far below the standards adopted by the Federal Communications Commission (“FCC”). Included in Attachment 5 is a far field calculation for the proposed Lime Rock small cell facility. This calculation demonstrates that the facility will operate well within the RF emission standards established by the FCC.

4. FAA Summary Report

Included in Attachment 6 of this Petition is a Federal Airways & Airspace Summary Report verifying that the new 30-foot monopole 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 First Selectman, Property Owner and Abutting Landowners

On September 23, 2015, a copy of this Petition was sent to Curtis Rand, Town of Salisbury’s First Selectman and to Lime Rock Park LLC, the owner of the Property. Included in Attachment 7 is a copy of the letters sent to Mr. Rand and Lime Rock Park LLC. A copy of this Petition was also sent to the owners of land that abuts the Property. A sample abutter’s letter and

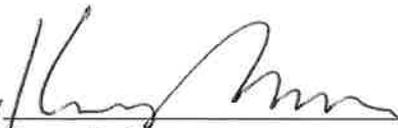
a list of those abutting landowners who received a copy of the Petition is included in Attachment 8.

V. Conclusion

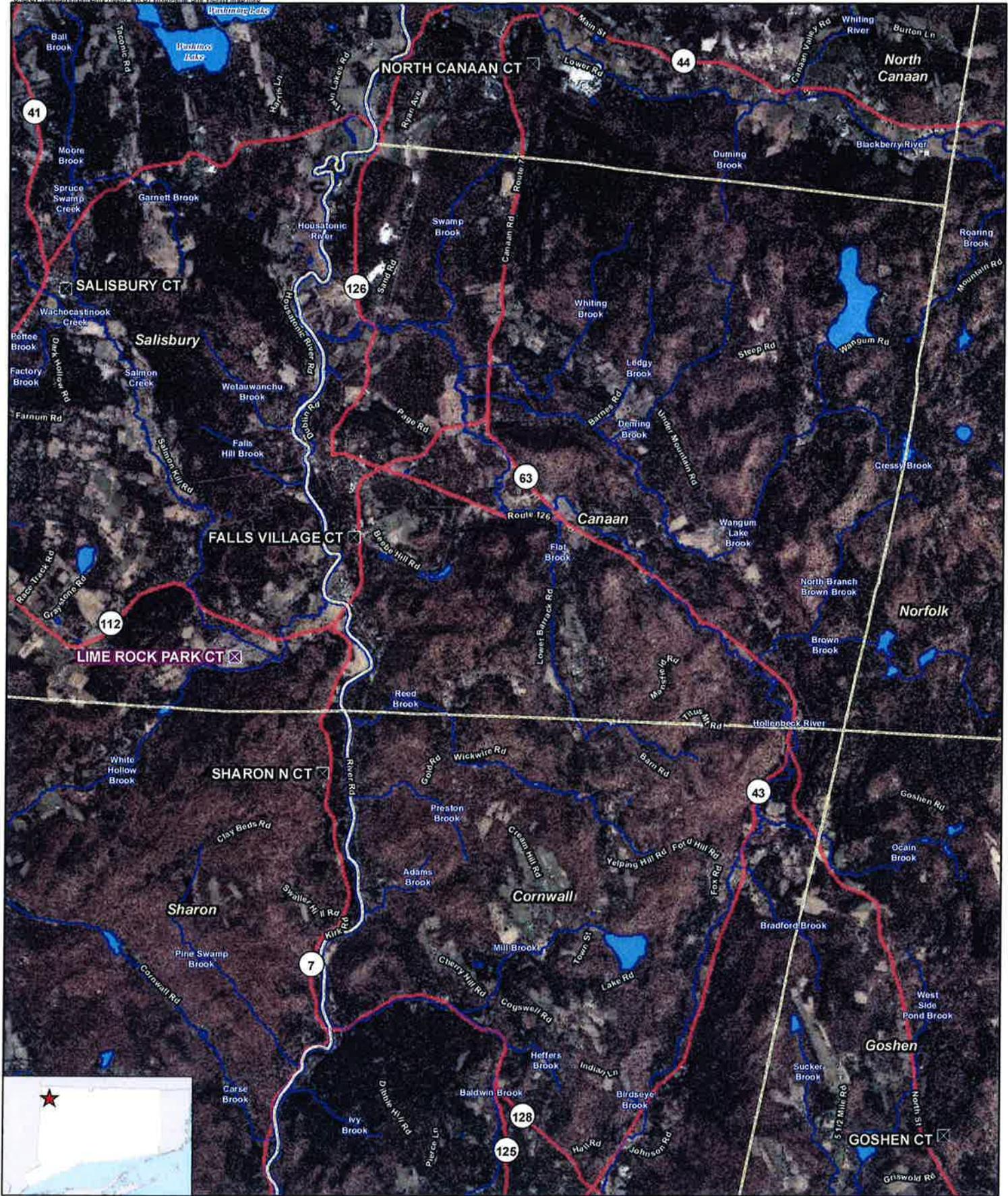
Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a 30-foot monopole used to support a “small cell” wireless facility at the Property will not have a substantial adverse environmental 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

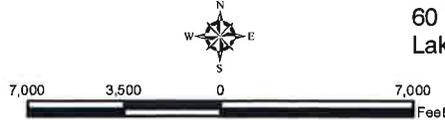


- Legend**
- ★ Proposed Verizon Wireless Facility
 - Surrounding Verizon Wireless Facilities
 - Municipal Boundary
 - Waterbody (CTDEEP)

Site Vicinity Map

Proposed Wireless Telecommunications Facility
 Lime Rock Park CT
 60 White Hollow Road
 Lakeville, Connecticut

Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 7,000 feet
 Map Date: July 2015





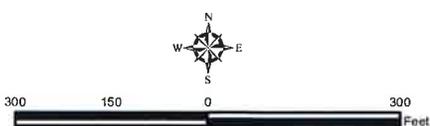
Legend

- Proposed Facility Layout
- Approximate Parcel Boundary (CTDEEP GIS)
- Underground Telco Utility Route
- ~ Watercourse (CTDEEP)
- Subject Property

Site Schematic

Proposed Small Cell Installation
 Lime Rock Park CT
 60 White Hollow Road
 Lakeville, Connecticut

Map Notes:
 Base Map Source: 2012 Aerial Photography (CTECO)
 Map Scale: 1 inch = 300 feet
 Map Date: July 2015



ATTACHMENT 2

Cellco Partnership

d.b.a. **verizon** wireless

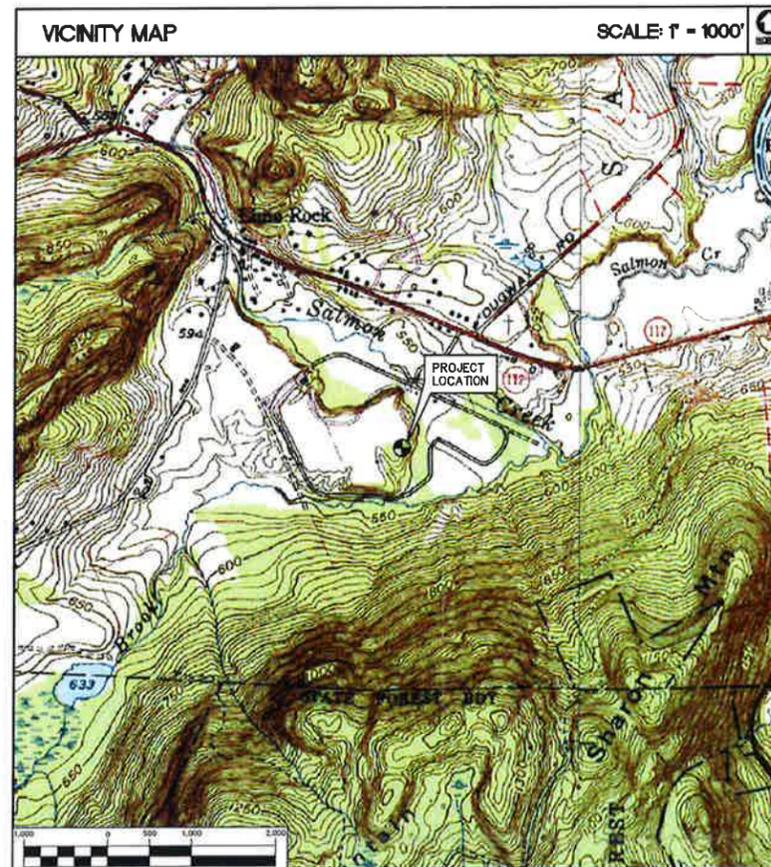
WIRELESS COMMUNICATIONS FACILITY

LIME ROCK PARK CT
497 LIME ROCK ROAD
LAKEVILLE, CT 06039

SITE DIRECTIONS	
FROM:	TO:
99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	497 LIME ROCK ROAD LAKEVILLE, CONNECTICUT
1. HEAD NORTHEAST ON E RIVER DR TOWARD DARLIN ST	0.3 MI.
2. TURN LEFT TO STAY ON E RIVER DR	354 FT.
3. TURN LEFT AT THE 1ST CROSS STREET ONTO CONNECTICUT BLVD	0.2 MI.
4. TURN LEFT ONTO THE I-84 W RAMP TO HARTFORD/I-91	482 FT.
5. MERGE ONTO I-84	0.3 MI.
6. TAKE EXIT 51 TO MERGE ONTO I-91 N TOWARD SPRINGFIELD	1.2 MI.
7. KEEP LEFT TO STAY ON I-91 N	0.1 MI.
8. KEEP RIGHT AT THE FORK TO STAY ON I-91 N	8.1 MI.
9. USE THE RIGHT 2 LANES TO EXIT 40 FOR CT-20 TOWARD BRADLEY INT'L AIRPORT	0.6 MI.
10. CONTINUE ONTO CT-20 W	2.8 MI.
11. TAKE THE CT-20 W EXIT TOWARD E GRANBY/GRANBY	0.7 MI.
12. CONTINUE ONTO CT-20 W	5.5 MI.
13. SLIGHT LEFT ONTO CT-20 W/W GRANBY RD	3.4 MI.
14. TURN LEFT ONTO CT-219 S	3.9 MI.
15. TURN LEFT ONTO CT-179 S/CT-219 S	2.5 MI.
16. TURN RIGHT ONTO CT-318 W	1.7 MI.
17. TURN LEFT ONTO CT-181 S/CT-318 W	1.4 MI.
18. TURN RIGHT ONTO US-44 W	20.5 MI.
19. TURN LEFT ONTO US-7 S	7.6 MI.
20. SLIGHT RIGHT ONTO CT-112 W	1.5 MI.
21. TURN LEFT ONTO WHITE HOLLOW ROAD, AND DESTINATION WILL BE ON THE LEFT	0.3 MI.

GENERAL NOTES
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

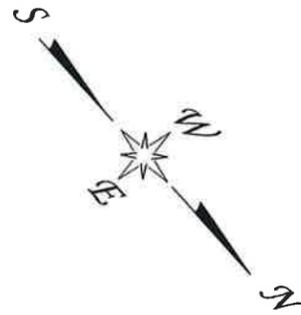
SITE INFORMATION
THE SCOPE OF WORK SHALL INCLUDE:
1. THE CONSTRUCTION OF A 12'x18' FENCED WIRELESS COMMUNICATIONS COMPOUND.
2. A TOTAL OF UP TO SIX (6) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED AT A CENTERLINE ELEVATION OF 30'-0"± AGL ON A 30'-0"± PROPOSED STEEL MONOPOLE TOWER.
3. POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING RESPECTIVE DEMARCS TO AN EXISTING UPGRADED UTILITY BACKBOARD LOCATED ADJACENT TO THE PROPOSED FENCED COMPOUND. FINAL DEMARC LOCATION AND UTILITY ROUTING TO EXISTING UPGRADED BACKBOARD WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES. UTILITIES WILL BE ROUTED UNDERGROUND FROM UTILITY BACKBOARD TO THE PROPOSED EQUIPMENT CABINET(S) LOCATED WITHIN FENCED COMPOUND AREA.
4. FINAL DESIGN FOR TOWER AND ANTENNA MOUNTS SHALL BE INCLUDED IN THE D&M PLANS.
5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
6. THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
7. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.



PROJECT SUMMARY	
SITE NAME:	LIME ROCK PARK CT
SITE ADDRESS:	497 LIME ROCK ROAD LAKEVILLE, CT 06039
PROPERTY OWNER:	LIME ROCK PARK LLC 497 LIME ROCK ROAD LAKEVILLE, CT 06039
LESSEE/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
VERIZON SITE ACQUISITION CONTACT:	ALEKSEY TYURIN CELCO PARTNERSHIP (860) 803-8213
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE (860) 275-8345
TOWER COORDINATES:	LATITUDE: 41°-55'-35.885" LONGITUDE: 73°-23'-01.333" GROUND ELEVATION: 588.8'± A.M.S.L.
COORDINATES AND GROUND ELEVATION BASED ON FAA 1-A SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY MARTINEZ COUCH AND ASSOCIATES LLC, DATED JULY 2, 2015.	

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	2
C-1	ABUTTERS MAP	2
C-1A	SITE LOCATION PLAN	2
C-2	PARTIAL SITE PLAN, ELEVATION AND ANTENNA MOUNTING CONFIGURATION	2
C-3	SITE CONSTRUCTION S&E CONTROL NOTES & DETAILS	2
C-4	SITE DETAILS	2
C-5	TREE DETAILS	2

PROFESSIONAL ENGINEER SEAL	ISSUED FOR CT SITING COUNCIL - REVERSE ABUTTERS MAP
CELLCO PARTNERSHIP d.b.a. verizon wireless	ISSUED FOR CT SITING COUNCIL
CENITEK engineering Communication Solutions	ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW
Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY	DATE
LIME ROCK PARK CT 497 LIME ROCK ROAD LAKEVILLE, CT 06039	DATE
DATE: 08/18/15	SCALE: AS NOTED
JOB NO. 14155.000	TITLE SHEET
T-1	Sheet No. 1 of 1



N/F
STATE OF CONNECTICUT
MAP 18 LOT 10
M.A.: 79 ELM STREET
HARTFORD, CT 06106

SHARON
SALISBURY
EXISTING TOWN LINE

N/F
IRENE DUPONT LIGHT
94 WHITE HOLLOW ROAD
MAP 4 LOT 2

N/F
SARAH H WOLF & CARLOS FIERRO
45 WHITE HOLLOW ROAD
MAP 28 LOT 23
M.A.: 200 ST JOHNS PLACE
BROOKLYN, NY 11217

N/F
MARY E FELLOWS
39 & 41 WHITE HOLLOW ROAD
MAP 28 LOT 24
M.A.: 558 LIMEROCK ROAD
LAKEVILLE, CT 06039

N/F
IRENE DUPONT LIGHT
WHITE HOLLOW ROAD
MAP 4 LOT 1

SUBJECT PROPERTY:
N/F
LIME ROCK PARK
497 LIME ROCK ROAD
MAP 41 LOT 16

N/F
LIME ROCK PARK LLC
52 WHITE HOLLOW ROAD
MAP 4 LOT 7

N/F
WHITE HOLLOW VINEYARDS INC.
33 WHITE HOLLOW ROAD
MAP 28 LOT 25

N/F
STATE OF CONNECTICUT
MAP 4 LOT 33
M.A.: 79 ELM STREET
HARTFORD, CT 06106

N/F
JOSEPH & MARGARET GLENNAN
28 WHITE HOLLOW ROAD
MAP 28 LOT 22
M.A.: 19 STEVENSON STREET
LYNBROOK, NY 11563

N/F
ERIC M. MACNEIL
23 LIME ROCK HOLLOW ROAD
MAP 28 LOT 7

N/F
GREG J. DIAMATTIA
24 LIME ROCK HOLLOW ROAD
MAP 28 LOT 6

N/F
FRANK JR. & LINDA S. NOYES
413 LIME ROCK ROAD
MAP 26 LOT 11

N/F
SKIP BARBER PROPERTIES LLC
LIME ROCK ROAD
MAP 26 LOT 8-1
M.A. P.O. BOX 500
LAKEVILLE, CT 06039

N/F
DANA R. LEMAY
419 LIME ROCK ROAD
MAP 26 LOT 9

N/F
SKIP BARBER PROPERTIES LLC
LIME ROCK ROAD
MAP 26 LOT 8-2
M.A. P.O. BOX 800
LAKEVILLE, CT 06039

N/F
MARK JACOBS
457 LIME ROCK ROAD
MAP 28 LOT 4
M.A. P.O. BOX 245
SALISBURY, CT 06088

N/F
PAUL MESSNER & ELIZABETH CONN
474 LIME ROCK ROAD
MAP 26 LOT 13
M.A.: 957 HUCKLEBERRY ROAD
MILLERTON, NY 12546

N/F
NICHOLAS G. & BONNIE A. DEANGELIS
480 LIME ROCK ROAD
MAP 26 LOT 14

N/F
TRINITY EPISCOPAL CHURCH
484 LIME ROCK ROAD
MAP 26 LOT 15

N/F
ROSE LINDA VAN DE BOGART
465 LIME ROCK ROAD
MAP 26 LOT 3

N/F
MARSDEN & ANTHONY EPWORTH
471 LIME ROCK ROAD
MAP 26 LOT 2
M.A.: P.O. BOX 357
FALLS VILLAGE, CT 06031

N/F
THERESA DIGIACOMO
475 LIME ROCK ROAD
MAP 26 LOT 1
M.A.: 19016 SE OLD TRAIL DRIVE EAST
JUPITER, FL 33478

N/F
JOHN H. BELTER JR. ET AL
LIME ROCK ROAD
MAP 4 LOT 26
M.A.: 2 COUNTRY CLUB ROAD
SOUTH BURLINGTON, VT. 05403

N/F
JOHN V. BERGDahl & GRACE McNAMARA
LIME ROCK ROAD
MAP 4 LOT 17-3
M.A.: 589 EAST 22ND STREET
BROOKLYN, NY 11226

N/F
SIEVERT A. MCCABE
511 LIME ROCK ROAD
MAP 4 LOT 17

N/F
ANDREA SALVATORE & JAMES E. BURNS
500 LIME ROCK ROAD
MAP 4 LOT 15-1

N/F
MARK A. & KATHLEEN W. LAURETANO
21 DUGWAY ROAD
MAP 4 LOT 15-2

1

C-2

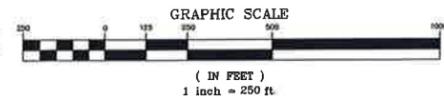
ROUTE 112

LIME ROCK ROAD

DUGWAY ROAD

CEMETERY

1
C-1
ABUTTERS MAP
SCALE: 1"=250'



REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
2	05/22/15	HMR	DMD	ISSUED FOR CT SITING COUNCIL - REVISED ABUTTERS MAP
1	06/23/15	HMR	DMD	ISSUED FOR CT SITING COUNCIL
0	06/23/15	HMR	DMD	ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

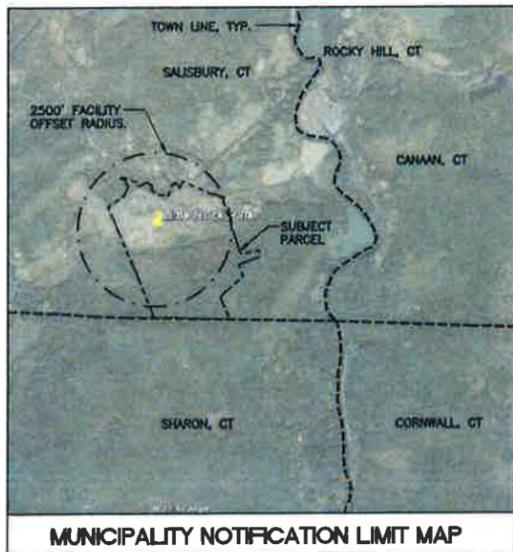
CEN TEK engineering
Communications Solutions
2031 486-0880
2031 486-0887 Fax
2031 486-0888 Toll Free
Branford, CT 06405
www.CenTekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
LIME ROCK PARK CT
497 LIME ROCK ROAD
LAKEVILLE, CT 06039

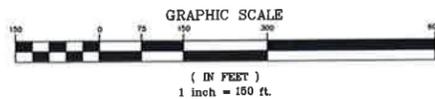
DATE: 08/16/15
SCALE: AS NOTED
JOB NO. 14156.000

ABUTTERS MAP

C-1
Sheet No. 2 of 7

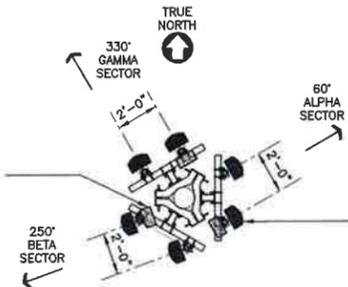


1 SITE LOCATION PLAN
 C-1A SCALE: 1"=150'



<p>Cellco Partnership d/b/a Verizon Wireless WIRELESS COMMUNICATIONS FACILITY LIME ROCK PARK CT 497 LIME ROCK ROAD LAKEVILLE, CT 06039</p>																					
<p>DATE: 08/18/15 SCALE: AS NOTED JOB NO. 14155.000</p>	<p>PROFESSIONAL ENGINEER SEAL</p>																				
<p>C-1A Sheet No. 3 of 7</p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DRAWN BY</th> <th>CHK'D BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>08/22/15</td> <td>HAR</td> <td></td> <td>ISSUED FOR CT SITING COUNCIL - REASED ABUTTERS MAP</td> </tr> <tr> <td>1</td> <td>08/17/15</td> <td>HAR</td> <td></td> <td>ISSUED FOR CT SITING COUNCIL</td> </tr> <tr> <td>0</td> <td>08/21/15</td> <td>HAR</td> <td></td> <td>ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW</td> </tr> </tbody> </table>	REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION	2	08/22/15	HAR		ISSUED FOR CT SITING COUNCIL - REASED ABUTTERS MAP	1	08/17/15	HAR		ISSUED FOR CT SITING COUNCIL	0	08/21/15	HAR		ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW
REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION																	
2	08/22/15	HAR		ISSUED FOR CT SITING COUNCIL - REASED ABUTTERS MAP																	
1	08/17/15	HAR		ISSUED FOR CT SITING COUNCIL																	
0	08/21/15	HAR		ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW																	

PROPOSED CELCO PARTNERSHIP AWS RRU MOUNTED TO THE AWS ANTENNA MAST. TYP. OF (1) PER SECTOR, TOTAL OF (3). MODEL: RRH2x60-AWS (DIMS: 36.7"H x 10.6"W x 5.8"D)

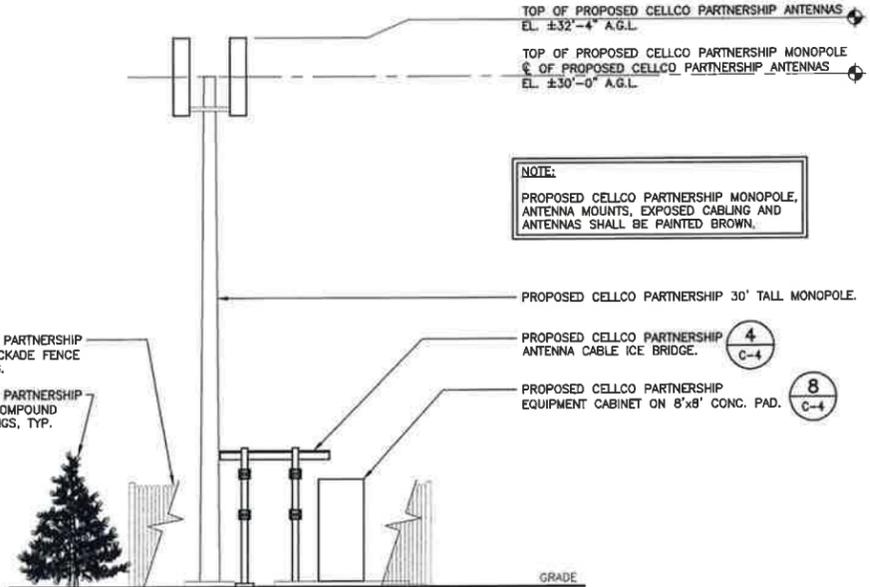


PLAN VIEW

3 ANTENNA MOUNTING CONFIGURATION
C-2 SCALE: 1/4" = 1'

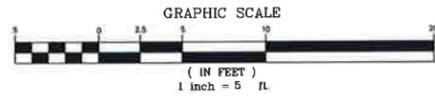
PROPOSED CELCO PARTNERSHIP ANTENNA, TYP. OF TWO (2) PER SECTOR, TOTAL OF SIX (6). MODEL: SBHMH-1065A (DIMS: 55.0"L x 11.9"W x 7.1"D)

- 2 C-4 PROPOSED CELCO PARTNERSHIP 6' TALL WOOD STOCKADE FENCE TO MATCH EXISTING.
- 2 C-5 PROPOSED CELCO PARTNERSHIP MINIMUM 8' TALL COMPOUND SCREENING PLANTINGS, TYP.



NOTE:
PROPOSED CELCO PARTNERSHIP MONOPOLE, ANTENNA MOUNTS, EXPOSED CABLES AND ANTENNAS SHALL BE PAINTED BROWN.

2 WEST ELEVATION
C-2 SCALE: 1" = 5'



MISCELLANEOUS SITE INFORMATION	
DISTANCE TO NEAREST OFF SITE RESIDENCE*	= 1,670'±
DISTANCE TO NEAREST MUNICIPALITY (SHARON, CT)*	= 2,912'±
ACCESS LENGTH OFF WHITE HOLLOW RD.	= 2,650'±
NUMBER OF RESIDENTIAL STRUCTURES WITHIN 1000' OF TOWER	= 0
TOTAL NUMBER OF TREES TO BE REMOVED	= 0
DISTANCE TO NEAREST PROPERTY LINE*	= 1,080'±

* DISTANCES TAKEN FROM CENTER OF TOWER

SYMBOLS LEGEND	
---	PROPERTY LINE
---	EASEMENT LINE (PROPOSED)
---	EXISTING ROAD
---	ACCESS DRIVE (PROPOSED)
---	CONTOUR LINE
---	GRADING LINE
⊕	UTILITY POLE
⊙	EXISTING DECIDUOUS TREE
⊙	EXISTING DECIDUOUS TREE TO BE PROTECTED
---	SILTATION FENCE
---	FENCE LINE
x	SPOT ELEVATION (PROPOSED)

SURVEY NOTES
THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1996. THE LIMITED TOPOGRAPHIC SURVEY PORTION OF THIS PLAN CONFORMS TO A VERTICAL ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED TO DEPICT A PROPOSED TELECOMMUNICATIONS SITE.

THE PROPERTY/BOUNDARY LINES DEPICTED HEREON ARE COMPILED FROM OTHER MAPS, DEEDS AND LIMITED FIELD SURVEY. THESE LINES ARE NOT TO BE CONSTRUED AS A BOUNDARY OPINION AND ARE SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. PROPERTY MAY BE SUBJECT TO ENCUMBRANCES, EASEMENTS, RIGHTS OF WAY AS A TITLE SEARCH REPORT MAY DISCLOSE. PLANIMETRIC FEATURES SUCH AS PARKING AREAS, PAVED DRIVE ARE COMPILED FROM OTHER MAPS AND LIMITED FIELD SURVEY.

COORDINATES REFER TO NAD 83.
VERTICAL DATUM IS BASED ON NGVD 29.

PARCEL OWNER OF RECORD: LIME ROCK PARK, LLC
457 LIME ROCK ROAD
LAKEVILLE, CT

PARCEL AREA = 325.2±ACRES.
PARCEL IS IN RE ZONING DISTRICT.
MAP-LOT 041-16

AREA OF SURVEY IS NOT IN A FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP, FAIRFIELD COUNTY, CONNECTICUT, PANEL 286 OF 626, MAP NUMBER 090052 0027B, MAP EFFECTIVE DATE JANUARY 5, 1989, BY FEDERAL EMERGENCY MANAGEMENT AGENCY.
NOT ALL IMPROVEMENTS SHOWN.

REFERENCE IS MADE TO THE FOLLOWING MAPS:
MAP SHOWING PROPERTY OF LIME ROCK ASSOCIATES, INC., ROUTE 118, LIME ROCK, SALISBURY, CONNECTICUT, SCALE 1"=100', DATED JUNE 21, 1994, BY PETER A. LAMB

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON
THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL

A. RAFAEL MARTINEZ LLS #18833 DATE

- 5 C-4 PROPOSED CELCO PARTNERSHIP GRAVEL PARKING/TURNAROUND AREA.
- PROPOSED CELCO PARTNERSHIP ±30' TALL MONOPOLE TOWER.
- PROPOSED SPOT GRADE, TYP.
- EXISTING TREE LINE, TYP.

PROPOSED CELCO PARTNERSHIP NORTH AMERICAN GREEN S150BN EROSION BLANKET OR APPROVED EQUAL, TYP. REFER TO SHEET C-3 FOR ADDITIONAL INFORMATION.

- 1 C-3 PROPOSED CELCO PARTNERSHIP GRASS LINED SWALE, TYP.
- PROPOSED GRADING, TYP.

- 2 C-4 PROPOSED CELCO PARTNERSHIP 6' TALL WOOD STOCKADE FENCE TO MATCH EXISTING.

- 4 C-4 PROPOSED CELCO PARTNERSHIP ANTENNA CABLE ICE BRIDGE.

EXISTING RETAINING WALL, TYP.

APPROX. LOCATION OF EXISTING U/G PROPANE TANK, TYP.

- 1 C-4 PROPOSED CELCO PARTNERSHIP LEVEL SPREADER.

- 1 C-3 PROPOSED CELCO PARTNERSHIP SILTATION FENCE.

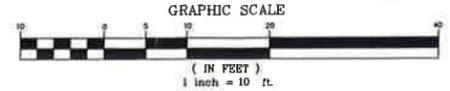
PROPOSED CELCO PARTNERSHIP POWER UTILITY ROUTED U/G FROM EXISTING METER BANK.

APPROX. LOCATION OF EXISTING TRANSFORMER AND MULTI-METER UTILITY BANK WITHIN WIRE FENCE ENCLOSURE. CELCO PARTNERSHIP TO UPGRADE METER BANK AS REQUIRED BY LOCAL UTILITY COMPANY.

EXTENT OF EXISTING PAVED DRIVE, TYP.

EXISTING BUILDING, TYP.

1 PARTIAL SITE PLAN
C-2 SCALE: 1" = 10'



PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

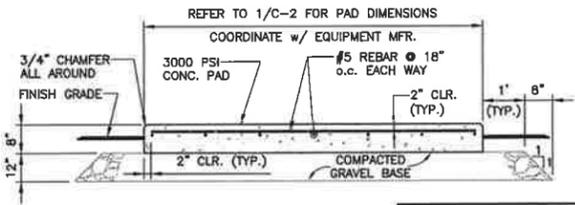
CENTEK engineering
Consulting Solutions
(203) 486-0380
(203) 486-8587 fax
652 North Ironstone Road
Bloomfield, CT 06043
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
LIME ROCK PARK CT
497 LIME ROCK ROAD
LAKEVILLE, CT 06039

DATE:	08/18/15
SCALE:	AS NOTED
JOB NO.	14158.000

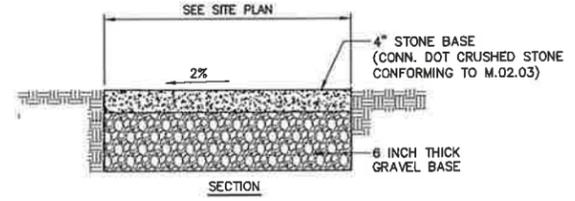
PARTIAL SITE PLAN, ELEVATION AND ANTENNA MOUNTING CONFIG.

C-2
Sheet No. 4 of 7

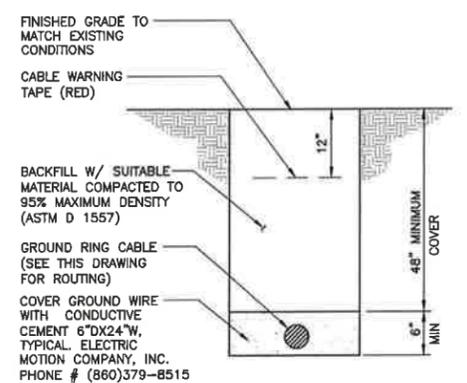


8 CONCRETE PAD DETAIL
C-4 NOT TO SCALE

NOTE:
1. EQUIPMENT TO BE TIED DOWN TO CONCRETE PAD PER MANUFACTURERS SPECIFICATIONS.

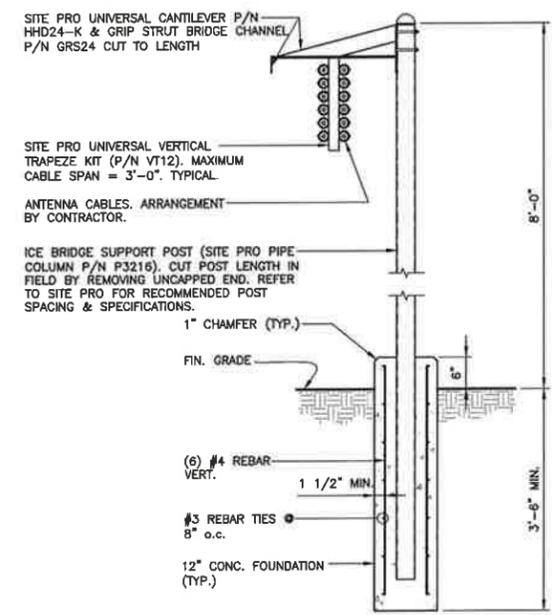


5 GRAVEL SURFACE PARKING AREA AND ACCESS DRIVE
C-4 NOT TO SCALE

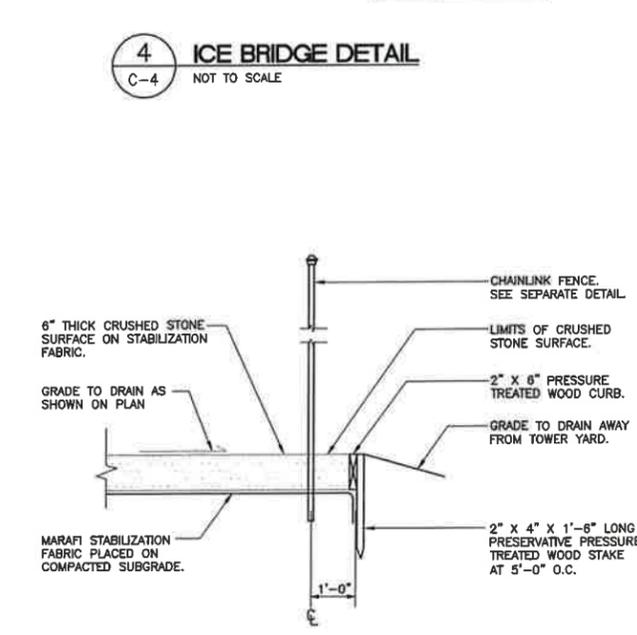


7 TYPICAL BURIAL GROUND CABLE DETAIL
C-4 NOT TO SCALE

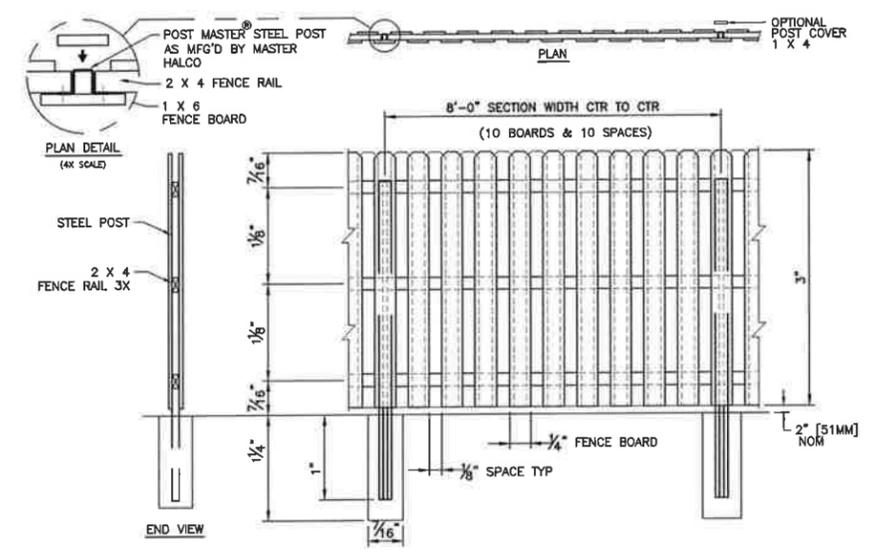
NOTES:
1. BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.



4 ICE BRIDGE DETAIL
C-4 NOT TO SCALE



3 COMPOUND SURFACING DETAIL
C-4 NOT TO SCALE

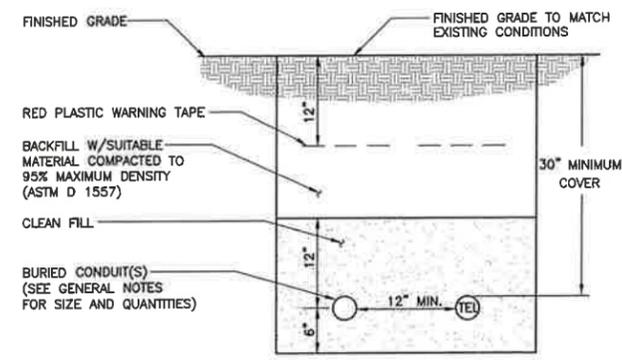


FENCE NOTES:
1. ALL STEEL FENCE GATE COMPONENTS SHALL BE GALVANIZED. STEEL FENCE GATE MEMBERS SHALL BE SHOP WELDED AND GALV'D AFTER FABRICATION.
2. ALL WOOD COMPONENTS SHALL BE WHITE CEDAR. DIMENSIONS SHOWN ARE NOMINAL.
3. ALL METAL FENCE POSTS AND ASSOCIATED ACCESSORIES AND SCREWS ARE TO BE POST MASTER BY MASTER HALCO OR APPROVED EQUAL.
4. ALL VERTICAL GATE FRAMING MEMBERS SHALL HAVE 1/2" WELDED END PLATE CAPS.

WOOD FENCE COMPONENT FINISH:
ALL WOOD COMPONENTS TO RECEIVE MINIMUM (2) COATS OF VALSPAR PREMIUM PENETRATING OIL DECK & SIDING TONER OR APPROVED EQUAL. FIRST COAT TO BE APPLIED PRIOR TO ASSEMBLY. APPLY COATING PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.

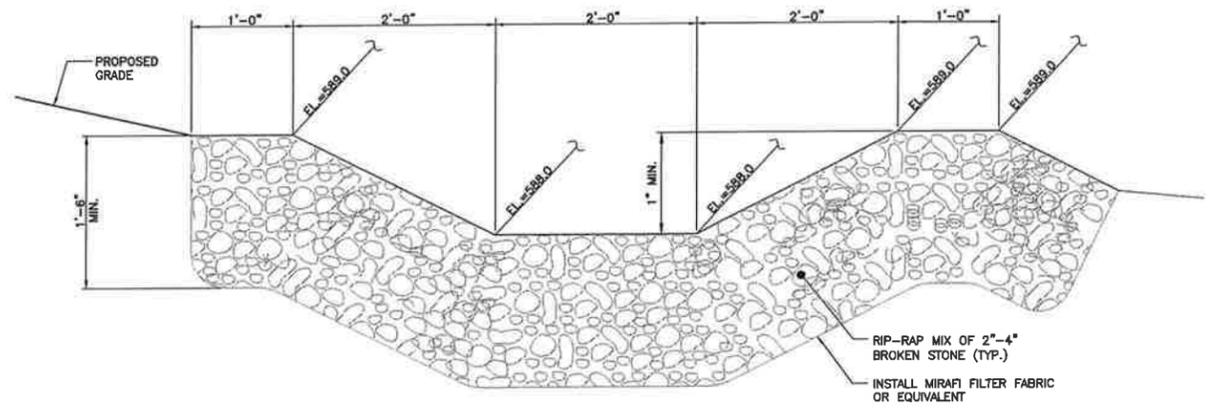
FASTENERS:
WOOD-TO-STEEL: 1 1/2" LRG #8-25 GA. FLUSH HEAD HILTI KWIK-PRO GALV'D SELF-DRILLING SCREWS (2 SCREWS AT EA. RAIL LOCATION, TYP.)
WOOD-TO-WOOD: REFER TO POST MASTER BY HALCO FOR REQUIRED FASTENERS.

2 WOOD STOCKADE FENCE DETAIL
C-4 NOT TO SCALE



6 TYPICAL ELECTRICAL/TEL TRENCH DETAIL
C-4 NOT TO SCALE

NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.



1 LEVEL SPREADER SECTION
C-4 NOT TO SCALE

ISSUED FOR CT SITING COUNCIL - REISED ABUTTERS MAP	DATE	08/18/15	DRAWN BY	CHK'D BY	DESCRIPTION
ISSUED FOR CT SITING COUNCIL	DATE	08/17/15	DATE		
ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW	DATE	08/21/15	DATE		
	REV.				

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

CENTEK engineering
Communications Solutions™
203 488-0580
203 488-6587 Fax
652 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
LIME ROCK PARK CT
497 LIME ROCK ROAD
LAKEVILLE, CT 06039

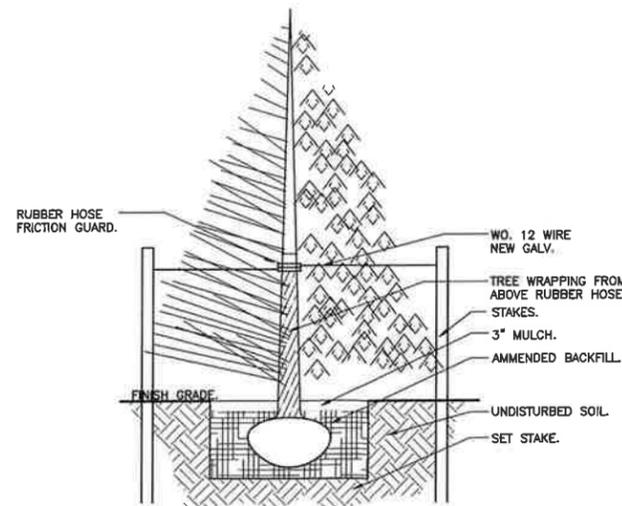
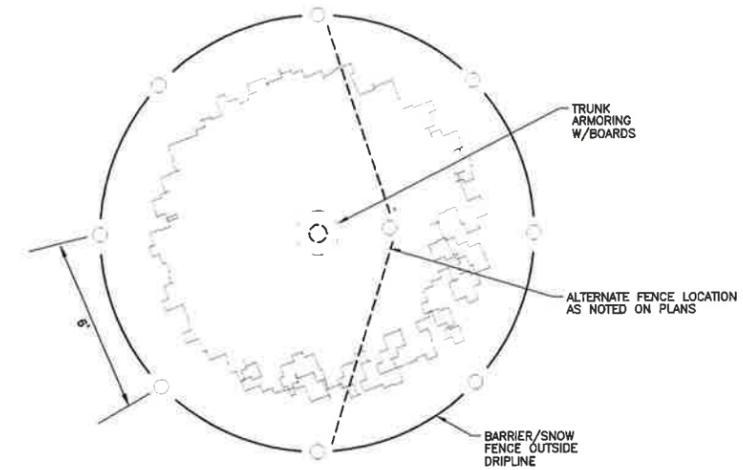
DATE: 08/18/15
SCALE: AS NOTED
JOB NO. 14156.000

SITE DETAILS

C-4
Sheet No. 6 of 7

TREE PROTECTION NOTES

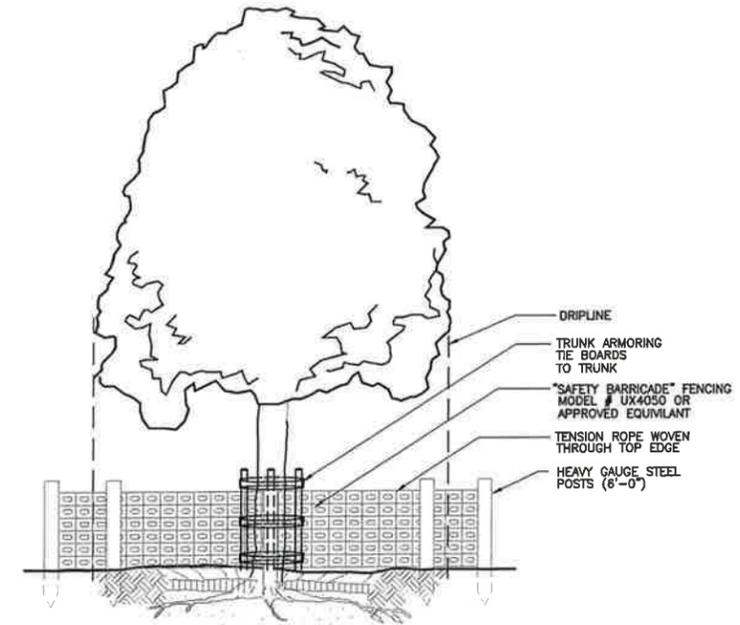
- ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING.
- TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE, WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - SOIL COMPACTION IN CRITICAL ROOT ZONE AREA RESULTING FROM STORAGE OF EQUIPMENT OR MATERIAL.
 - CRITICAL ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING.
 - WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
 - OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CONCRETE TRUCK CLEANING, AND FIRES.
- WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
- WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRITICAL ROOT ZONE, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
- ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
- ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
- PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
- NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRITICAL ROOT ZONE OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.



TREE & SHRUB PLANTING SPECIFICATIONS:

- GUY WIRES (WO.12 NEW GALV.) SHALL BE REQUIRED FOR ALL TREES 3 GAL. AND LARGER.
- SOIL MIX SHALL CONSIST OF: 3 PARTS TOP SOIL, 3 PART PEAT MOSS, 10 ONE PART COMPOSTED COW MANURE, AND 1 OZ. SOIL MOIST PER EVERY 12 IN. OF LINEAR DIM. OF ROOT BALL COVER WITH LANDSCAPE FABRIC, AND A MINIMUM OF 3" CEDAR MULCH.
- TREES 6' AND OVER SHALL BE STAKED WITH 2 OAK STAKES 2" X 2" X 6' AND GUY WIRE TO STAKES.
- ALL TREES AND SHRUBS MUST MEET OR EXCEED STANDARDS SET BY THE NATIONAL ASSOCIATION OF NURSERYMEN, YEAR OF LATEST REVISION.

2 TYPICAL TREE PLANTING DETAIL
C-5 NOT TO SCALE



1 TREE PROTECTION DETAIL
C-5 NOT TO SCALE

REV.	DATE	DRWN BY	CHK'D BY	DESCRIPTION
2	06/22/15	HMR	DMD	ISSUED FOR CT STRING COUNCIL - RENESSED ABUTTERS MAP
1	06/27/15	HMR	DMD	ISSUED FOR CT STRING COUNCIL
0	06/27/15	HMR	DMD	ISSUED FOR CT STRING COUNCIL - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

CENTEK engineering
Centered on Solutions™
(203) 488-0580
(203) 488-3387 Fax
652 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
LIME ROCK PARK CT
497 LIME ROCK ROAD
LAKEVILLE, CT 06039

DATE: 06/18/15
SCALE: AS NOTED
JOB NO. 14156.000

TREE DETAILS

C-5
Sheet No. 7 of 7

ATTACHMENT 3

Product Specifications



SBNHH-1D65A

Andrew® Tri-band Antenna, 698–896 and 2x 1695–2360 MHz, 65° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.

POWERED BY



Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2180	2300–2360
Gain, dBi	13.6	13.7	16.5	16.9	17.1	17.6
Beamwidth, Horizontal, degrees	66	61	70	65	62	61
Beamwidth, Vertical, degrees	17.6	15.9	7.1	6.6	6.2	5.5
Beam Tilt, degrees	0–18	0–18	0–10	0–10	0–10	0–10
USLS, dB	16	13	13	13	12	12
Front-to-Back Ratio at 180°, dB	25	27	28	28	27	29
CPR at Boresight, dB	20	16	20	23	17	20
CPR at Sector, dB	10	5	11	6	1	4
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°

Electrical Specifications, BASTA*

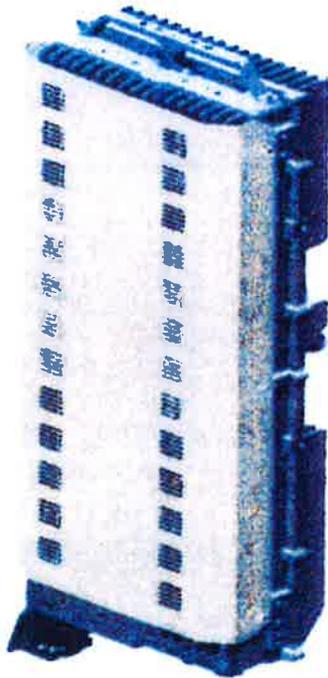
Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2180	2300–2360
Gain by all Beam Tilts, average, dBi	13.1	13.1	16.1	16.5	16.7	17.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.5	±0.3	±0.5	±0.4
Gain by Beam Tilt, average, dBi	0° 13.4	0° 13.4	0° 16.0	0° 16.3	0° 16.5	0° 17.0
	9° 13.1	9° 13.1	5° 16.2	5° 16.5	5° 16.8	5° 17.3
	18° 12.7	18° 12.7	10° 16.1	10° 16.5	10° 16.6	10° 16.9
Beamwidth, Horizontal Tolerance, degrees	±3.1	±5.4	±2.8	±4	±6.6	±4.6
Beamwidth, Vertical Tolerance, degrees	±1.8	±1.4	±0.3	±0.4	±0.5	±0.3
USLS, dB	15	14	15	15	15	14
Front-to-Back Total Power at 180° ± 30°, dB	22	21	26	26	24	25
CPR at Boresight, dB	22	16	22	25	21	22
CPR at Sector, dB	10	6	12	8	5	4

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 6
Wind Loading, maximum	445.0 N @ 150 km/h 100.0 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h 150.0 mph
Antenna Dimensions, L x W x D	1409.0 mm x 301.0 mm x 180.0 mm 55.5 in x 11.9 in x 7.1 in
Net Weight	15.2 kg 33.5 lb

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.

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.

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).

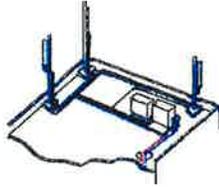
The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

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.

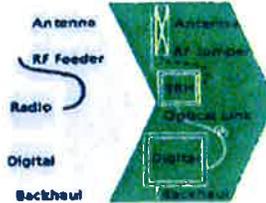
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation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

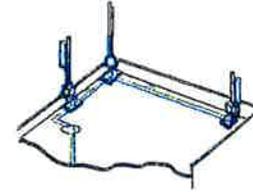
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

- 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

- 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.

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)

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)

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

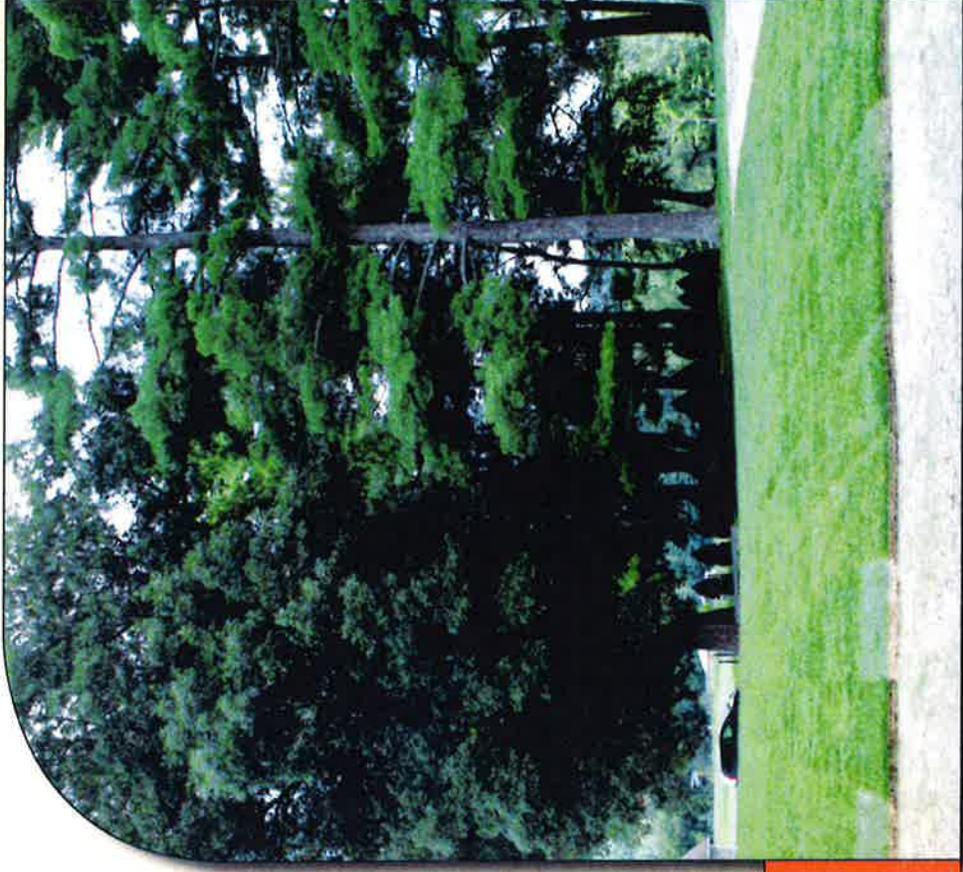
www.alcatel-lucent.com Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners. The information presented is subject to change without notice. Alcatel-Lucent assumes no responsibility for inaccuracies contained herein.

Copyright © 2012 Alcatel-Lucent. All rights reserved. M201200000X (March)

ATTACHMENT 4

Limited Visual Assessments and Photo-Simulations

LIME ROCK PARK
497 LIME ROCK ROAD
LAKEVILLE, CT 06039



Prepared in September 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 a small cell wireless telecommunications Facility at 497 Lime Rock Road in Lakeville (Salisbury), Connecticut (the "Property").

Project Setting

The Property is located south of Lime Rock Road within Lime Rock Park. The Property is currently developed with a speedway complex. The proposed Facility site is within the speedway complex, remote from other surrounding properties, within a wooded grove. The Facility would include the installation of a 30-foot tall monopole with six panel antennas and three remote radio heads mounted across three T-arm style supports. The antennas would be mounted at a center line height of 30 feet above ground level, such that the tops would rise to an overall height of 32 feet and four inches. The monopole, antennas and appurtenances would all be painted brown. The monopole and associated ground equipment would be located within a six-foot tall, stockade fence enclosure. Approximately 17 evergreen landscaping trees would be planted around three sides of the enclosure.

Methodology

On July 22, 2015, APT personnel conducted a field reconnaissance to photo-document existing conditions. Six nearby locations were selected to depict existing and proposed conditions. 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 the lens set to 24 mm for all but one of the photographs in order to provide a greater depth of field for presentation in this report. Photo location 3 was shot using a 50 mm lens setting.

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

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

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 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.

Three-dimensional computer models were developed for the building and proposed small cell components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was 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 installation would be screened by existing mature trees that surround the proposed site. Even during those times of the year when the leaves are off the deciduous trees, views of the Facility would not extend off the Property. The combination of the monopole’s short height, surrounding trees and the site’s remote location to publicly-accessible locations off the Property serves to buffer the Facility’s potential visibility. Based on the results of this assessment, it is our opinion that the proposed installation of Verizon Wireless equipment at the Property would have little effect on existing public views.

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
 - Point Location



EXISTING

PHOTO

1

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 255 FEET



PROPOSED

PHOTO

1

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 255 FEET



EXISTING

PHOTO

2

LOCATION

HOST PROPERTY (24mm focal Length)

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 374 FEET



PROPOSED

PHOTO

2

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 374 FEET



EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	HOST PROPERTY (50mm Focal Length)	NORTHEAST	+/- 443 FEET



PROPOSED

PHOTO

3

LOCATION

HOST PROPERTY (50mm Focal Length)

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 443 FEET



EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
4	HOST PROPERTY (24mm Focal Length)	NORTHWEST	+/- 261 FEET



PROPOSED

PHOTO

4

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 261 FEET



EXISTING

PHOTO

5

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 102 FEET



PROPOSED

PHOTO

5

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 102 FEET



EXISTING

PHOTO

6

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 47 FEET



PROPOSED

PHOTO

6

LOCATION

HOST PROPERTY (24mm Focal Length)

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 47 FEET

ATTACHMENT 5

Far Field Approximation
with downtilt variation

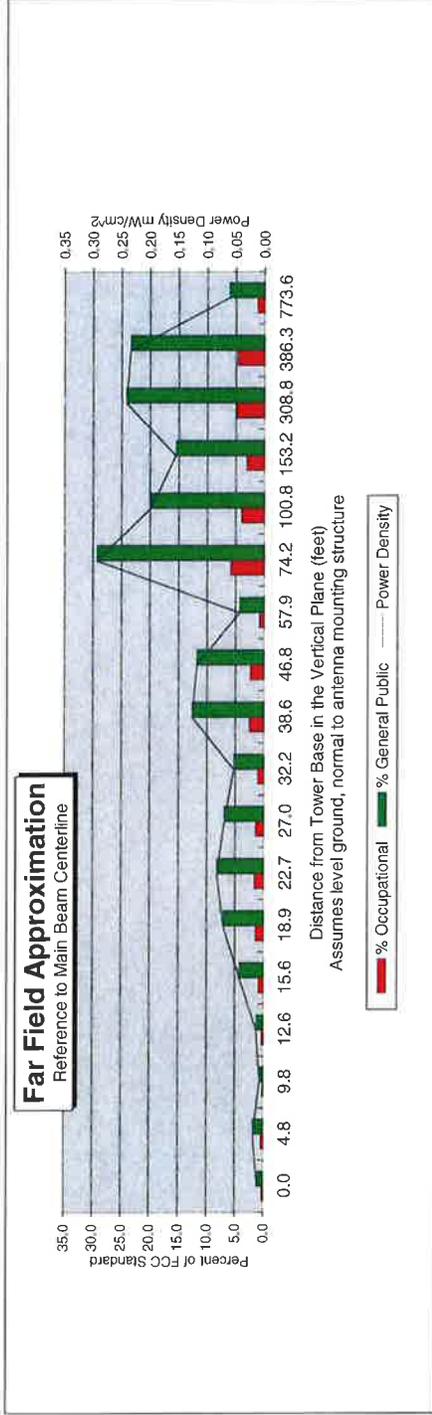
Estimated Radiated Emission

Single Emitter Far Field Model

Dipole / Wire/ Yagi Antenna Types



Location:	Limerock Park, CT
Site #:	
Date:	06/09/15
Name:	Mark Brauer
File Name:	Limerock Park, CT - FF Power
Operating Freq. (MHz)	2145.0
Antenna Height (ft):	30.0
Antenna Gain (dBi):	16.8
Antenna Size (in.):	55.0
Downtilt (degrees):	0.0
Feedline Loss (dB):	0.0
ERP (w):	3500.0
Number of Channels	1



Calc Angle	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
Solve for r, dx to antenna	27.0	27.4	28.7	29.8	31.2	33.0	35.3	38.2	42.0	47.1	54.0	63.9	79.0	104.4	155.6	309.9	387.3	774.0
Distance from Antenna Structure Base in Horizontal plane	0.0	4.8	9.8	12.6	15.6	18.9	22.7	27.0	32.2	38.6	46.8	57.9	74.2	100.8	153.2	308.8	386.3	773.6
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (referenced to centerline)	36.76	34.35	38.52	35.34	29.54	26.8	25.59	25.63	25.99	21.21	20.29	23.24	13.03	12.3	9.92	2	0.2	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm²)	0.01	0.02	0.01	0.01	0.04	0.07	0.08	0.07	0.05	0.13	0.12	0.04	0.29	0.20	0.15	0.24	0.23	0.06
Percent of Occupational Standard	0.2	0.4	0.1	0.2	0.8	1.4	1.6	1.4	1.0	2.5	2.4	0.9	5.9	4.0	3.1	4.8	4.7	1.2
Percent of General Population Standard	1.1	1.8	0.6	1.2	4.2	7.1	8.2	6.9	5.2	12.5	11.8	4.3	29.3	19.9	15.5	24.1	23.4	6.1

Antenna Type SBNHH-1D65A
Max% 29.33%

Instructions:

- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
- 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
- 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi, add 2.17 to dBd to obtain dBi), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Po
- 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
- 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
- 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
- 7) An odd distance may be entered in the rightmost column of the lower table.

ATTACHMENT 6

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

*

Airspace User: Mark Brauer

File: LIMEROCK_PARK_CT

Location: Torrington, CT

Latitude: 41°-55'-35.89" Longitude:

73°-23'-1.41"

SITE ELEVATION AMSL.....588 ft.
STRUCTURE HEIGHT.....35 ft.
OVERALL HEIGHT AMSL.....623 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)
- FAR 77.9: NNR (No Expected TERPS® impact with GBR)
- FAR 77.9: NNR (No Expected TERPS® impact 46N)
- 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: GBR: WALTER J KOLADZA

Type: A RD: 93804.8 RE: 733.6

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

VFR TRAFFIC PATTERN AIRSPACE FOR: 46N: SKY PARK

Type: A RD: 124633.2 RE: 323

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			
OCT0 HEL SHARON HOSPITAL	237.86	5.14	-17
No Impact to Private Landing Facility Structure 0 ft below heliport.			

AIR NAVIGATION ELECTRONIC FACILITIES

FAC	ST	DIST	DELTA
GRND APCH	AT	FREQ	VECTOR
IDNT	TYPE	(ft)	ELEVA ST
ANGLE BEAR	LOCATION		
PWL	VOR/DME	I	114.3 225.87 82206 -627 NY PAWLING
-.44	IGN	VOR/DME	R 117.6 231.34 152829 +41 NY KINGSTON
.02	CTR	VOR/DME	I 115.1 41.42 177627 -977 MA CHESTER
-.32	BDL	VORTAC	D 109.0 88.18 189233 +463 CT BRADLEY

.14 BDL RADAR ON 88.46 190869 +387 CT BRADLEY INTL
.12 BAF VORTAC R 113.0 64.47 200579 +356 MA BARNES
.10 QHA RADAR ARSR Y 1320. 29.29 229317 -1530 MA West Cummington
-.38

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: WHDD @ 12848 meters.

Airspace® Summary Version 15.5.391

AIRSPACE® and TERPS® are registered ® trademarks of Federal Airways & Airspace®
Copyright © 1989 - 2015

06-09-2015

16:05:59

ATTACHMENT 7

September 23, 2015

Via Certificate of Mailing

Curtis Rand, First Selectman
Town of Salisbury
P.O. Box 548
27 Main Street
Salisbury, CT 06068

Re: **Installation of a Small Cell Facility at the Lime Rock Park, 497 Lime Rock Road,
Lakeville, Connecticut**

Dear Mr. Rand:

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 facility at Lime Rock Park, 497 Line Rock Road in Lakeville, Connecticut (the “Property”).

The proposed facility would consist of a 30-foot tall tower located in the center of the Property. The tower would support six (6) antennas and three (3) remote radio heads (RRHs). The antennas will extend to a height of 32’-4” above ground level. Equipment associated with the antenna will be located in a ground-mounted cabinet located near the base of the tower.

A copy of Cellco’s Petition is attached for your review. Landowners whose property abuts the 497 Lime Rock Road site were also sent a copy of the Petition.

Robinson + Cole

Curtis Rand
September 23, 2015
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment

September 23, 2015

Via Certificate of Mailing

Lime Rock Park LLC
497 Lime Rock Road
Lakeville, CT 06039

Re: **Installation of a Small Cell Facility at the Lime Rock Park, 497 Lime Rock Road, Lakeville, Connecticut**

Dear Sir or Madam:

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 facility at Lime Rock Park, 497 Line Rock Road in Lakeville, Connecticut (the “Property”).

The proposed facility would consist of a 30-foot tall tower located in the center of the Property. The tower would support six (6) antennas and three (3) remote radio heads (RRHs). The antennas will extend to a height of 32’-4” above ground level. Equipment associated with the antenna will be located in a ground-mounted cabinet located near the base of the tower.

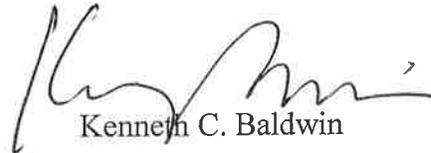
A copy of Cellco’s Petition is attached for your review. Landowners whose property abuts the 497 Lime Rock Road site were also sent a copy of the Petition.

Robinson + Cole

Lime Rock Park LLC
September 23, 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

September 23, 2015

Via Certificate of Mailing

«Name_and_Address»

**Re: Installation of a Small Cell Facility at the Lime Rock Park, 497 Lime Rock Road,
Lakeville, 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 facility at Lime Rock Park, 497 Line Rock Road in Lakeville, Connecticut (the “Property”).

The proposed facility would consist of a 30-foot tall tower located in the center of the Property. The tower would support six (6) antennas and three (3) remote radio heads (RRHs). The antennas will extend to a height of 32’-4” above ground level. Equipment associated with the antenna will be located in a ground-mounted cabinet located near the base of the tower. 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 proposed 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.

September 23, 2015
Page 2

Sincerely,

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

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

497 LIME ROCK ROAD, SALISBURY, CONNECTICUT

SALISBURY

	Property Address	Owner's and Mailing Address
1.	94 White Hollow Road	Irene Dupont Light 94 White Hollow Road Lakeville, CT 06039
2.	White Hollow Road	Irene Dupont Light 94 White Hollow Road Lakeville, CT 06039
3.	52 White Hollow Road	Lime Rock Park LLC 497 Lime Rock Road Lakeville, CT 06039
4.	24 Lime Park Hollow Road	Greg J. Diamattia 24 Lime Park Hollow Road Lakeville, CT 06039
5.	413 Lime Rock Road	Linda S. and Frank Noyes, Jr. 413 Lime Rock Road Lakeville, CT 06039
6.	419 Lime Rock Road	Dana R. Lemay 419 Lime Rock Road Lakeville, CT 06039
7.	Lime Rock Road	Skip Barber Properties LLC P.O. Box 600 Lakeville, CT 06039
8.	Lime Rock Road	Skip Barber Properties LLC P.O. Box 600 Lakeville, CT 06039
9.	457 Lime Rock Road	Mark Jacobs P.O. Box 245 Salisbury, CT 06068

	Property Address	Owner's and Mailing Address
10.	465 Lime Rock Road	Linda Van De Bogart Rose 465 Lime Rock Road Lakeville, CT 06039
11.	471 Lime Rock Road	Marsden and Anthony Epworth P.O. Box 466 Lakeville, CT 06039
12.	475 Lime Rock Road	Theresa Digiacomio 19016 SE Old Trail Dr. East Jupiter, FL 33478
13.	480 Lime Rock Road	Bonnie A. and Nicholas Deangelis 480 Lime Rock Road Lakeville, CT 06039
14.	484 Lime Rock Road	Trinity Episcopal Church 484 Lime Rock Road Falls Village, CT 06031
15.	484 Lime Rock Road	Trinity Episcopal Church 484 Lime Rock Road Falls Village, CT 06031
16.	500 Lime Rock Road	James E. Burns and Andrea Salvadore 500 Lime Rock Road Lakeville, CT 06039
17.	21 Dugway Road	Mark A. and Kathleen Laurentano, Trustee P.O. Box 502 Lakeville, CT 06039
18.	511 Lime Rock Road	Sievert A. McCabe 511 Lime Rock Road Lakeville, CT 06039
19.	Lime Rock Road	Grace McNamara and John Bergdahl 30 West 88 th Street, Apt. 4B New York, NY 10024
20.	Lime Rock Road	Torey Anne, Stephen, James, Thomas and John Belter 2 Country Club Road South Burlington, VT 05403

	Property Address	Owner's and Mailing Address
21.	Route 7	State of Connecticut 79 Elm Street Hartford, CT 06106
22.	23 Lime Rock Hollow Road	Eric Macneil P.O. Box 218 Salisbury, CT 06068
23.	474 Lime Rock Road	Paul Meissner and Elizabeth Conn 957 Hucklebury Road Millerton, NY 12546
24.	45 White Hollow Road	Carlos Fierro and Sarah H. Wolf 200 St. Johns Place, Apt. #2 Brooklyn, NY 11217
25.	39 and 41 White Hollow Road	Mary E. Fellows 558 Lime Rock Road Lakeville, CT 06039
26.	33 White Hollow Road	White Hollow Vineyards Inc. 558 Lime Rock Road Lakeville, CT 06039
27.	28 White Hollow Road	Joseph and Margaret Glennan 19 Stevenson Street Lynbrook, CT 11563

SHARON

28.	West Cornwall Road	State of Connecticut 165 Capital Avenue Hartford, CT 06106
-----	--------------------	--