

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

April 13, 2006

Steven L. Levine
Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **TS-CING-047-060405** - New Cingular Wireless PCS, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 50 Plantation Road, East Windsor, Connecticut.

Dear Mr. Levine:

At a public meeting held April 12, 2006, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated April 4, 2006, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.

Chairman

PBK/laf

c: The Honorable Linda L. Roberts, First Selectman, Town of East Windsor
Laurie Whitten, Town Planner, Town of East Windsor
Thomas J Regan, Esq., Brown Rudnick Berlack Israels LLP
Christopher B. Fisher, Esq., Cuddy & Feder LLP

ORIGINAL

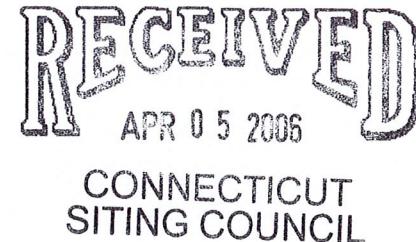


New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

April 4, 2006

TS-CING-047-060405

Ms. Pamela Katz, Chairman, and
Members of the Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051



**Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared
Telecommunications Use of an Existing Antenna Support Structure Located at 50
Plantation Road, East Windsor, Connecticut.**

Dear Chairman Katz and Members of the Council:

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, New Cingular Wireless PCS, LLC (“Cingular”) hereby requests an order from the Connecticut Siting Council (“Council”) approving the proposed shared use by Cingular of an existing water tank located at 50 Plantation Road, East Windsor, Connecticut. Cingular operates under licenses issued by the Federal Communications Commission (“FCC”) to provide cellular and PCS mobile telephone service in Hartford County, which includes the area to be served by Cingular’s proposed installation.

A copy of this letter is being sent to the 1st Selectman of the Town of East Windsor.

Existing Tower Facility

The East Windsor water tank is located at 50 Plantation Road, approximately 2 miles northeast of the intersection of US Hwy 5 and CT Rte 194, and its coordinates (NAD 83) are N 41° 52' 32.3" and W 72° 33' 53.1". The water tank is owned by Dean Rasmussen of East Windsor. It is no longer in use to store water and is permanently drained. Instead, it is now used solely to support telecommunications equipment and as such constitutes an antenna support structure for purposes of Section 16-50i and 16-50aa of the Connecticut General Statutes.

The water tank was initially constructed circa 1947. It has supported Sprint antennas since local P&Z authorities approved this use in 1996. (See attached 1996 zoning approval.) Additionally, the water tank appears on the Council’s “PA 04-226 Database” of non-facility telecommunications installations.

The existing water tank consists of a 135-foot tall 4-legged structure within a 45 ft x 100 ft fenced area. The water tank is currently in use by Sprint PCS to support telecommunications equipment.

Proposed Shared Use of the Antenna Support Structure

Cingular proposes to install up to six Powerwave 7770.00 dual band panel antennas, or their equivalent, approximately 55 inches in height at a centerline height of 116 feet above ground level. Cingular also proposes to place an 11½ ft x 20 ft prefabricated concrete equipment shelter within an 18 ft x 23 ft extension of the fenced area on that portion of the site dedicated to the facility.

Attached to this Request for Tower Sharing are a site location map, the proposed site plan, the water tank profile, and a structural analysis report that shows the former water tank is structurally capable of supporting the proposed Cingular telecommunications equipment.

Statutory Considerations

Cingular requests the Council to find that the proposed shared use of the antenna support structure satisfies the criteria stated in C.G.S. §16-50aa, and to issue an order approving the proposed use.

C.G.S. §16-50aa provides that, upon written request for approval of a proposed shared use, “If the Council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the Council shall issue an order approving such shared use” (C.G.S §16-50aa(c)(1)).

The shared use of the facility satisfies the criteria in C.G.S §16-50aa as follows:

- A. **Technical Feasibility.** The existing antenna support structure is structurally sound and capable of supporting the proposed shared use of the Cingular antennas at 116 feet AGL. The proposed shared use is therefore technically feasible.
- B. **Legal Feasibility.** Under C.G.S §16-50aa, the Council has been authorized to issue an order approving the proposed shared use of towers such as the water tank in this specific instance which has no use other than as a telecommunications antenna support structure (C.G.S §16-50aa(c) (1)). Under the authority vested in the Council by C.G.S §16-50aa, an order approving the shared use of the water tank would permit it to obtain a building permit for the proposed installation.
- C. **Environmental Feasibility.** The proposed shared use of this antenna support structure would have a minimal environmental effect for the following reasons:
 1. The proposed installation would have an insignificant incremental visual impact and would not cause any significant change or alteration in the physical or environmental characteristics of the property. The addition of the proposed antennas would not increase the height of the water tank. Cingular’s equipment will be housed in an equipment shelter, and all construction will occur on the site owned by Mr. Rasmussen.
 2. The proposed installation would not increase noise levels at the existing facility by six decibels or more.
 3. Operation of the additional antennas will not increase the total radio frequency

electromagnetic radiation power density, measured at the water tank base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the water tank is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Sprint PCS *	126	1962.5	12	500	0.1359	1.0000	13.59
Cingular	116	880-894	6	296	0.0475	0.5867	8.09
Cingular	116	1930-1935 1965-1970	3	427	0.0342	1.0000	3.42
Total							25.10%

* Typical worst-case values for Sprint PCS.

[†] Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the "worst-case" exposure would be approximately 25 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Cumulative power density levels resulting from Cingular's proposed use of the water tank facility would thus be well within applicable ANSI/IEEE standards.

4. The proposed installation would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is completed (approximately six weeks), the proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

D. **Economic Feasibility.** Cingular has entered into an agreement with Mr. Rasmussen to share use of the antenna support structure for telecommunications operations. The proposed facility sharing is therefore economically feasible.

E. **Public Safety Concerns.** As stated above, the existing structure is capable of supporting Cingular's proposed antennas, and radio frequency emissions fall well below State and Federal safety standards. Cingular is not aware of any other public safety concerns relative to the proposed tower sharing. In fact, the provision of new or improved wireless coverage in the area is expected to enhance the safety and welfare of East Windsor's residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing antenna support structure at 50 Plantation Road in the Town of East Windsor satisfies the criteria stated in C.G.S. §16-50aa and advances the General Assembly's and the Council's goal of preventing the proliferation of communication towers in Connecticut. Cingular therefore respectfully requests that the Council issue an order approving the proposed shared use. Thank you for your attention to this matter.

Please feel free to call Tim Burks at (860) 989-0001 or Christopher Fisher, Esq. at (914) 761-1300 with questions concerning this water tank sharing request. Thank you for your consideration in this matter.

Sincerely,

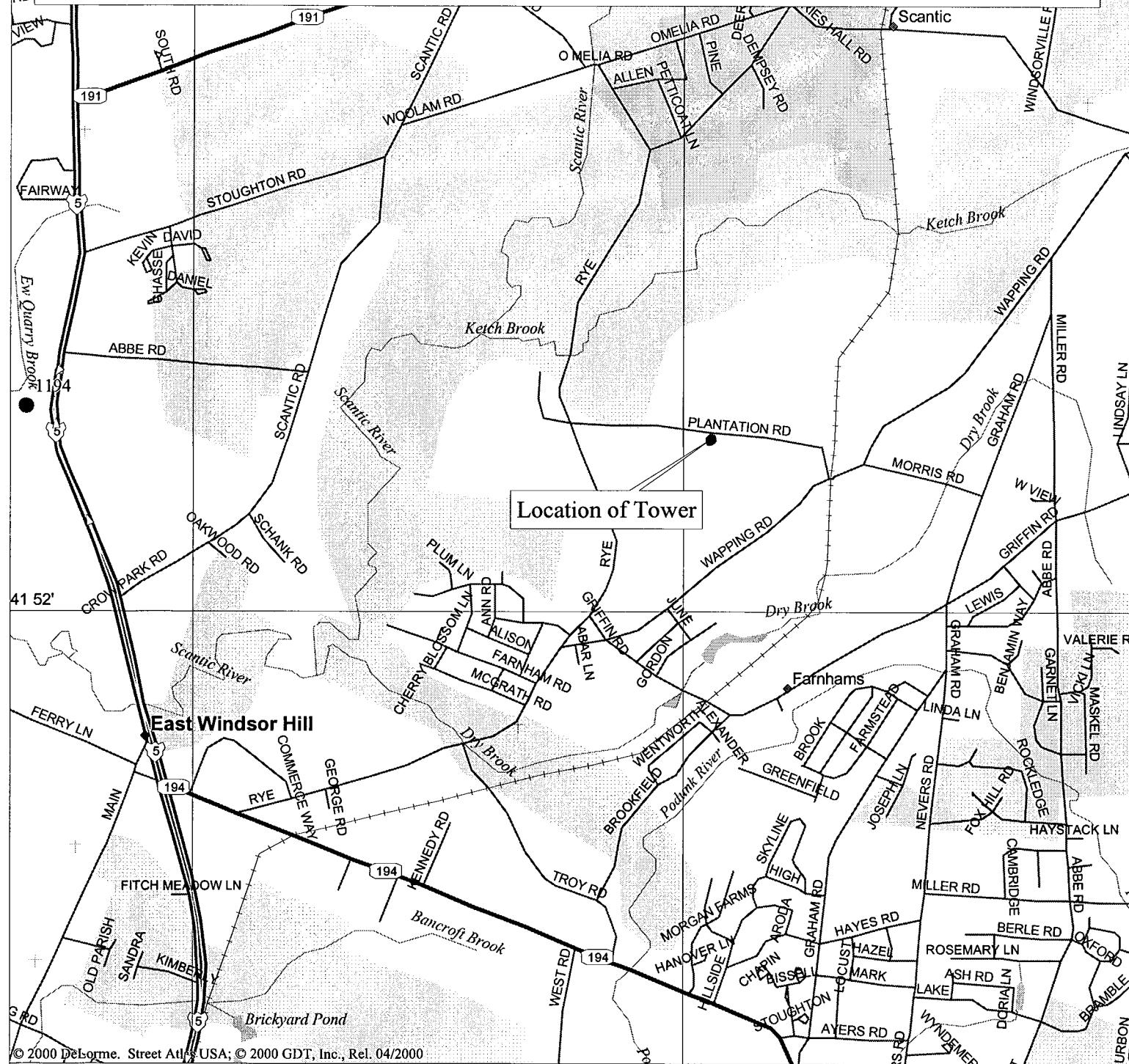


Steven L. Levine
Real Estate Consultant

cc: Honorables Linda L. Roberts, 1st Selectman, Town of East Windsor
Michele G. Briggs, Manager of Real Estate
Christopher B. Fisher, Esq.

Enclosures

Plantation Road, East Windsor



Mag 14.00

Mon Apr 03 15:38 2006

Scale 1:31,250 (at center)

2000 Feet

1000 Meters

- Local Road
- Major Connector
- State Route
- US Highway
- Railroad
- ◆ Small Town
- ◆ Locale
- ⊕ Cemetery
- Population Center
- Water
- Woodland
- River/Canal



-Edge of Pavement

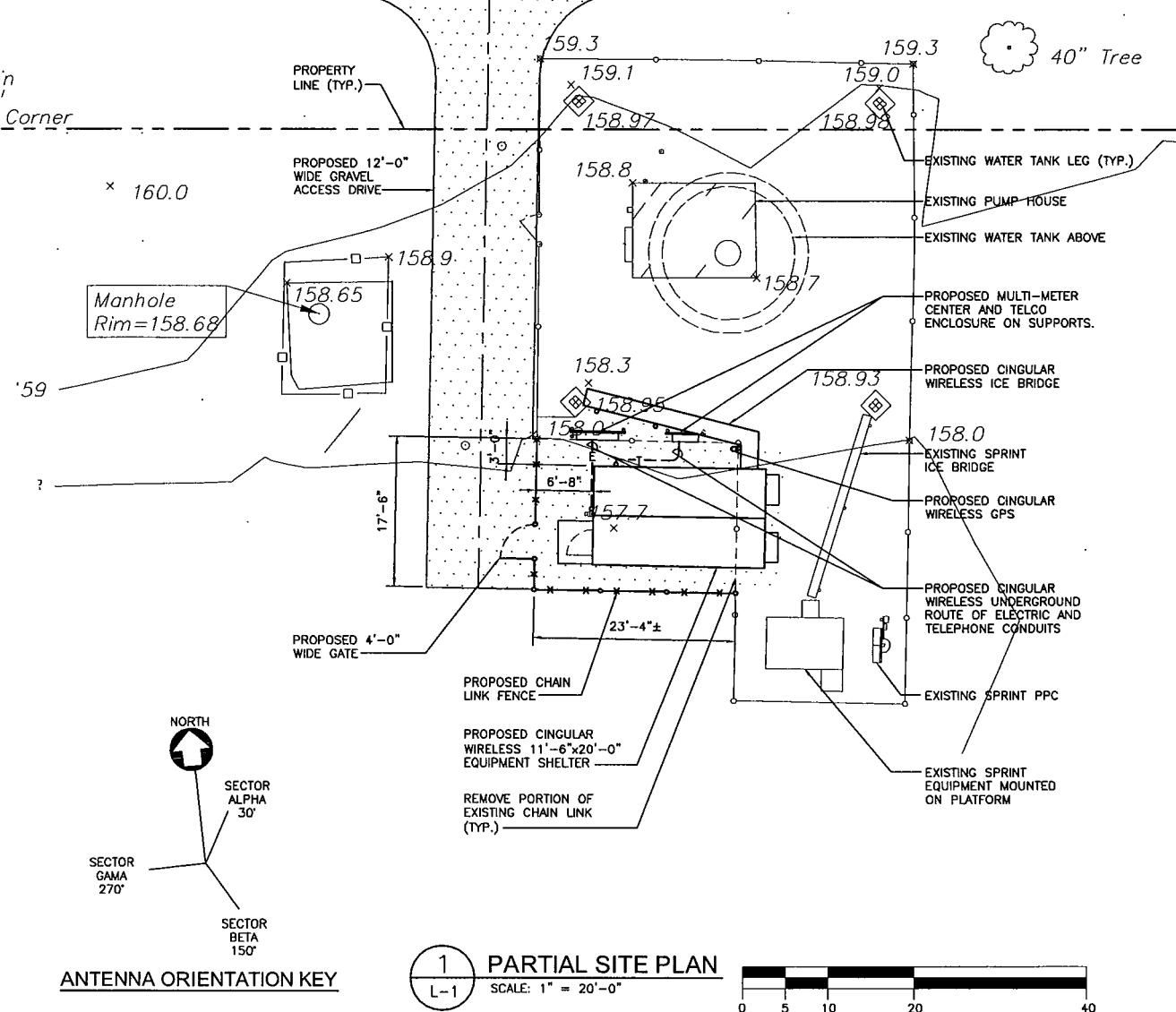
* 159.66

PLANTATION ROAD

* 159.71

-Edge of Pavement

* 159.27



PROJECT NO. 36921839
Designed by:
Drawn by: TM
Checked by:
Approved by:

UBS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY

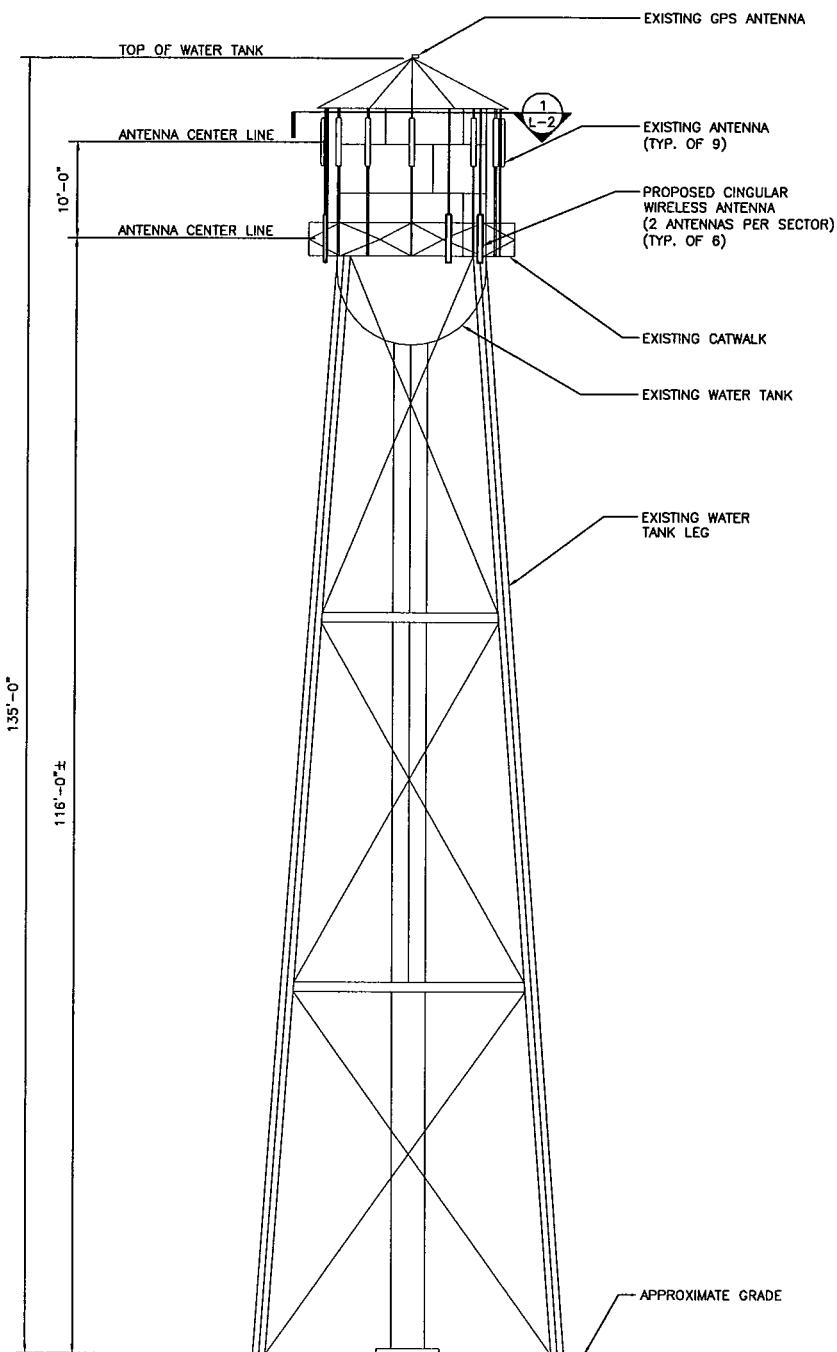
WATER TOWER
50 PLANTATION ROAD
EAST WINDSOR, CONNECTICUT

SITE ADDRESS:

REV.	04/03/06	REvised
DATE:		
DESCRIPTION		
Scale: AS NOTED	Date: 02-22-06	
Job No. CW1 075	File No.	

Dwg. No.
L-1

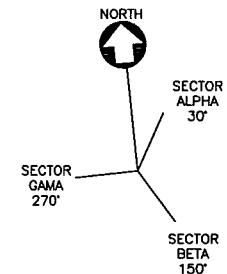
Dwg. 1 of 2



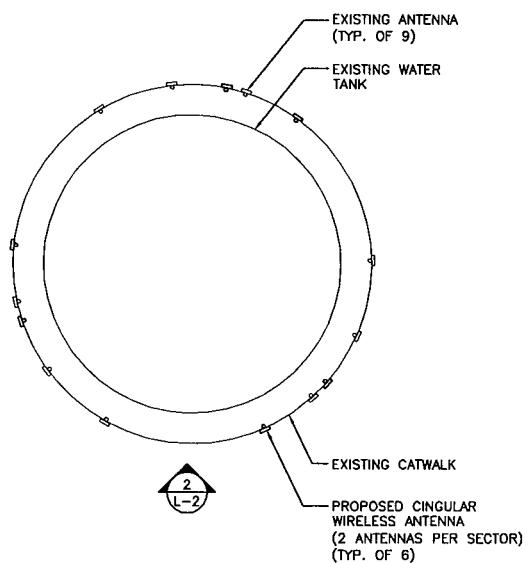
2
L-2

WATER TANK ELEVATION

SCALE: 1" = 20'-0"



ANTENNA ORIENTATION KEY



1
L-2

ANTENNA ORIENTATION

SCALE: 1" = 10'-0"

PROJECT NO.	36921839
Designed by:	
Drawn by:	TM
Checked by:	
Approved by:	

UBS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY

WATER TOWER
50 PLANTATION ROAD
EAST WINDSOR, CONNECTICUT
SITE ADDRESS:

△	04/03/06	REVISED
REV.	DATE:	DESCRIPTION
Scale: AS NOTED	Date: 02-22-06	
Job No. CW1 075	File No.	

Dwg. No.
L-2
Dwg. 2 of 2

April 5, 2006

Mr. Steven Levine
Cingular Wireless
500 Enterprise Drive, 3rd Floor
Rocky Hill, CT 06067

Reference: **Proposed Telecommunications Facility**
Cingular Wireless
50 Plantation Road (47 Plantation Road)
East Windsor, Connecticut
CW1-075 / 36921839.00000

Dear Mr. Levine:

URS Corporation has been authorized by Cingular Wireless to conduct a structural evaluation of the proposed installation on an existing water tower at 50 Plantation Road in East Windsor, Connecticut.

The water tank is a 50,000-gallon water tower designed by W.E. Cadwell Company, Louisville, KY, erected in 1947. The water tank appears to be in acceptable condition and has not experienced significant section loss or damage due to exposure to the elements. URS has based this review/structural evaluation on the water tower.

The proposed installation will consist of an 11'-6" x 20' equipment building located at grade and (6) six panel antennas. The antennas will be mounted on the exterior wall of the water tank at an elevation of 116'+/- (antenna centerline) above grade. Each antenna weighs 35lbs with a horizontal thrust force of 120lbs each. The proposed antennas will have 2 associated coaxial cables each. All coax cables will be routed up the existing water tower leg in a cable tray. The proposed antennas will be shielded by the tank structure and the overall effect of wind on the tank structure due to the addition of the Cingular Wireless antennas and coaxial cables is minimal.

It is our determination that the existing water tank is adequate to support the proposed antenna installation. The limitations of this determination are as follows:

1. There is routine inspection and maintenance of the existing water tank.

The installation is based on requirements of the Connecticut Building Code 2005 and latest supplements and amendment. The tank design and construction predates seismic design requirements, therefore no attempt was made to assess the structure for seismic load compliance. Should you have any further questions, please do not hesitate to call me.

Sincerely,

URS Corporation

Richard A. Sambor

Richard Sambor, P.E.
Manager Facilities Design

cc: Alitz Abadjan, PM - URS
CF/Book - URS



URS Corporation
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Rocky Hill, CT 06067
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Phone: (860) 513-7636
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April 4, 2006

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Telecommunications Use of an Existing Antenna Support Structure Located at 50 Plantation Road, East Windsor, Connecticut.

Honorable Linda L. Roberts
1st Selectman, Town of East Windsor
Town Hall, 11 Rye Street
Broad Brook, Connecticut 06016

Dear Ms. Roberts:

Consistent with the State of Connecticut's statutory policy of encouraging telecommunications tower sharing, New Cingular Wireless PCS, LLC ("Cingular") intends to install cellular antennas and equipment at an existing water tank at 50 Plantation Road, East Windsor, Connecticut. The water tank, which is no longer operational, is owned by Dean Rasmussen of East Windsor and supports Sprint PCS antennas as its sole use.

Pursuant to Connecticut General Statutes Section 16-50aa, Cingular has requested an order approving shared use of the water tank from the Connecticut Siting Council.

As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies, we are providing you with copies of this letter and the attached letter to the Siting Council as notice of Cingular's plans.

The accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosures